





ADDITION AND RENOVATIONS

WHITEWATER HIGH SCHOOL

WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

CONSTRUCTION DOCUMENTS
12/19/2025

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Architectural

Bray Architects
829 S. 1st Street
Milwaukee, WI 53204
(414) 226-0200

Civil

Point of Beginning, Inc.
4941 Kirschling Court
Stevens Point, Wisconsin 54481
(715) 344-9999

Landscape

Point of Beginning, Inc.
4941 Kirschling Court
Stevens Point, Wisconsin 54481
(715) 344-9999

Structural

REYN Engineering, Inc.
507 S. Street, Suite 201
Milwaukee, Wisconsin 53204
(414) 254-8526

Mechanical

MSA Professional Services, Inc.
12308 Corporate Parkway, Suite 400
Mequon, Wisconsin 53092
(262) 243-9090

Plumbing

MSA Professional Services, Inc.
220 East Buffalo Street, Suite 201
Milwaukee, WI 53202
(414) 296-4333

Electrical

MSA Professional Services, Inc.
116 Fremont Street, PO Box 235
Kiel, Wisconsin 53042
(920) 894-7800

Food Service

The Boelter Companies
4200 N. Port Washington Road
Milwaukee, Wisconsin 53212
(414) 967-4204

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

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ISSUANCES + REVISIONS:

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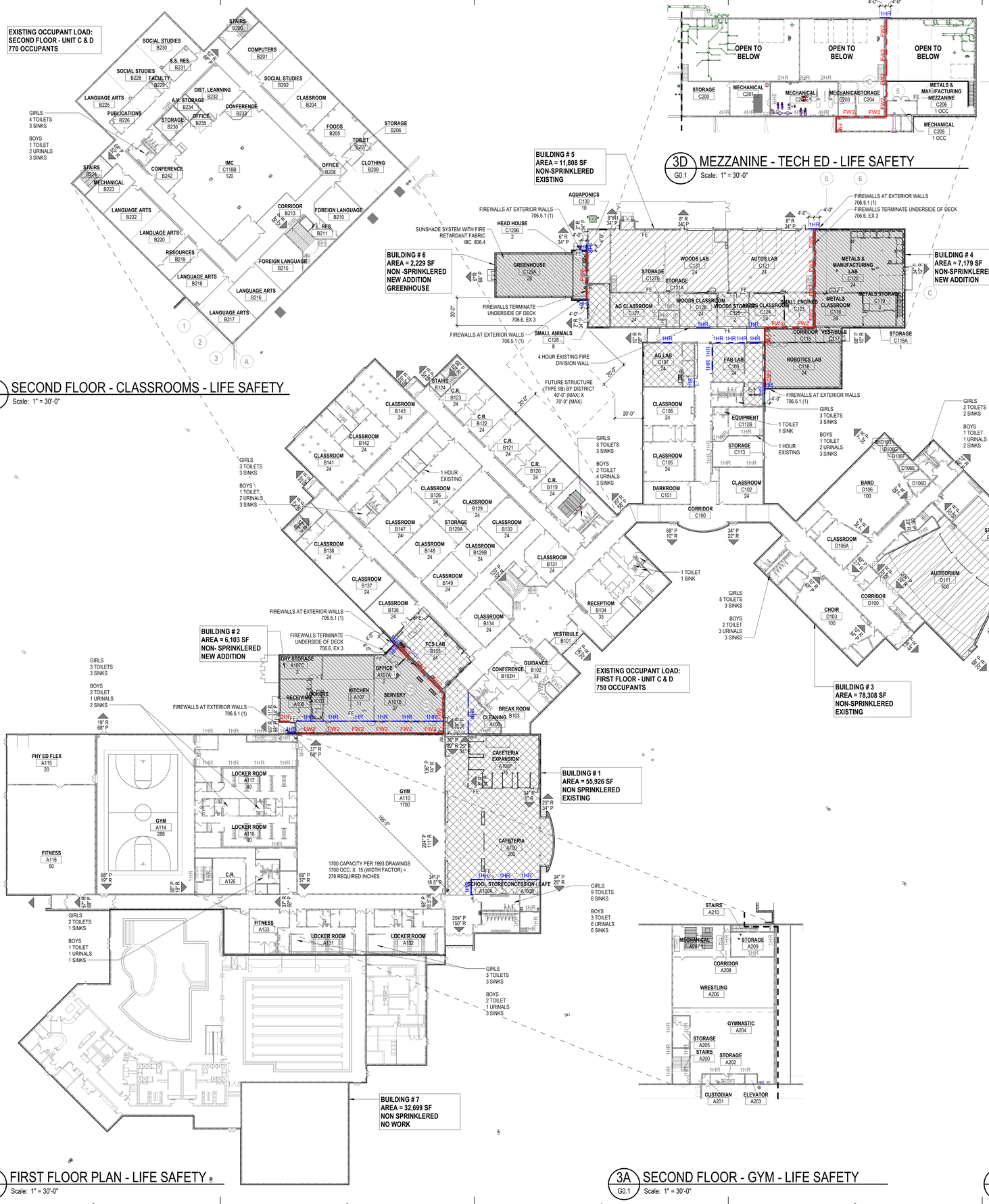


FIRE RESISTIVE & CODE REVIEW LEGEND

NOTE: THIS SHEET TO BE PRINTED IN COLOR - EXISTING RATED WALL SHOWN IN GRAYSCALE

X X X	SMOKE TIGHT PARTITION TO DECK	SE1 SE1 SE1	SHAFT ENCLOSURE 1 HOUR
CX CX CX	SMOKE TIGHT PARTITION TO INTERSTITIAL CEILING	SE2 SE2 SE2	SHAFT ENCLOSURE 2 HOUR
PX PX PX	SMOKE TIGHT PARTITION TO PLENUM CEILING	SE3 SE3 SE3	SHAFT ENCLOSURE 3 HOUR
		SE4 SE4 SE4	SHAFT ENCLOSURE 4 HOUR
FP0.5 FP0.5 FP0.5	FIRE PARTITION 0.5 HOUR		
FP1 FP1 FP1	FIRE PARTITION 1 HOUR	FB1 FB1 FB1	FIRE BARRIER 1 HOUR
2HR 2HR 2HR	RATED CONSTRUCTION 2 HOUR	FB2 FB2 FB2	FIRE BARRIER 2 HOUR
	WORK IN EXISTING BUILDING - LEVEL 1	FB3 FB3 FB3	FIRE BARRIER 3 HOUR
	WORK IN EXISTING BUILDING - LEVEL 2	FB4 FB4 FB4	FIRE BARRIER 4 HOUR
	BUILDING ADDITION	FW1 FW1 FW1	FIRE WALL 1 HOUR
		FW2 FW2 FW2	FIRE WALL 2 HOUR
		FW3 FW3 FW3	FIRE WALL 3 HOUR
		FW4 FW4 FW4	FIRE WALL 4 HOUR
ROOM NAME 101 45	ROOM NAME ROOM NUMBER ROOM OCCUPANT LOAD		
FE	FIRE EXTINGUISHER		
27" R 37" P	EGRESS DIRECTION EGRESS WIDTH REQUIRED EGRESS WIDTH PROVIDE		

EXISTING RATED PATITIONS, AS INDICATED ON ORIGINAL DRAWINGS ARE SHOWN IN GRAYSCALE.

PROJECT DATA

SITE ADDRESS:	534 S ELIZABETH ST WHITEWATER, WI 53190
COUNTY:	WALWORTH COUNTY
APPLICABLE CODES:	2021 INTERNATIONAL BUILDING CODE WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366)

BUILDING #1 (EXISTING)
PORTION OF EXISTING BUILDING ADJACENT TO NEW CONSTRUCTION BUILT IN 1993
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NON-SEPARATED OCCUPANCY = A-2 (CAFETERIA) PER IBC 303.1.3
NON-SEPARATED OCCUPANCY= A-3 (GYM) PER IBC 303.1.3
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = TWO STORY & MEZZANINE
NON-SPRINKLERED BUILDING

BUILDING AREA:
EXISTING 1ST FLOOR BUILDING AREA = ~55,926 SF
RENOVATED AREA = ~9,146 SF
<50% WORK AREA = LEVEL 2 ALTERATION
NO CHANGE IN OCCUPANCY
EXISTING EGRESS WIDTH MAINTAINED AT NEW DOOR OPENINGS

BUILDING #2 (NEW ADDITION) - KITCHEN/SERVERY
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = ONE STORY
NON SPRINKLERED BUILDING

FIRE SEPARATION:
2-HR FIRE WALL - TABLE 706.4

BUILDING AREA:
MAXIMUM BUILDING HEIGHT PER TABLE 504.3 = 75' W/ SPRINKLER SYSTEM
MAXIMUM NUMBER OF STORIES PER TABLE 504.4 = 3 STORIES W/ SPRINKLER SYSTEM
ALLOWABLE AREA PER TABLE 506.2 = 43,500 SF MULTISTORY & SPRINKLERED
TOTAL ALLOWABLE BUILDING AREA = 43,500 SF
ACTUAL BUILDING AREA = 6,319 SF

BUILDING #3 (EXISTING)
PORTION OF EXISTING BUILDING ADJACENT TO NEW CONSTRUCTION BUILT IN 1993
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = TWO STORY
NON-SPRINKLERED BUILDING

BUILDING AREA:
EXISTING 1ST FLOOR BUILDING AREA = ~78,308 SF
EXISTING 2ND FLOOR BUILDING AREA = ~33,440 SF
RENOVATED AREA = ~10,513 SF
<50% WORK AREA = LEVEL 2 ALTERATION
NO CHANGE IN OCCUPANCY
EXISTING EGRESS WIDTH MAINTAINED AT NEW DOOR OPENINGS

OCCUPANT LOAD:
PER TYPE:
STUDENT= 600 OCCUPANTS
STAFF = 60 OCCUPANTS
TOTAL OCCUPANCY = 660 OCCUPANTS

EGRESS INFO:
1005.1 - MEANS OF EGRESS SIZING
1005.3.2 OTHER EGRESS COMPONENTS. THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCHES 1 MMI PER OCCUPANT.
EGRESS DOOR WIDTH REQUIRED (IBC 1005.3.2 EX #1) = 1,149 X .15 = 172.4"
EGRESS DOOR WIDTH PROVIDED = 495"
1006.3.1 - MIN. OF (4) EXITS >1000 OCC.
1014.3 - COMMON PATH OF TRAVEL = 75' MAX
1017.2 - EXIT ACCESS TRAVEL DISTANCE = 200' MAX W/ NON-SPRINKLER
1020.1 - CORRIDOR RATING = 0 HR WITH SPRINKLER, 1 HR WHERE NON-SPRINKLERED
1020.2 - CORRIDOR WIDTH = 72" MIN SERVING >100 OCC.
IEBC 804.7 - DEAD END CORRIDOR = 35' MAX
1020.5 - DEAD END CORRIDOR = 20' MAX WITH NON-SPRINKLER, NEW BUILDINGS

BUILDING #4 - TECH ED ADDITION
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = ONE STORY, MEZZANINE
NON-SPRINKLERED BUILDING

FIRE SEPARATION:
2-HR FIRE WALL - TABLE 706.4

BUILDING AREA:
MAXIMUM BUILDING HEIGHT PER TABLE 504.3 = 75' W/ SPRINKLER SYSTEM
MAXIMUM NUMBER OF STORIES PER TABLE 504.4 = 3 STORIES W/ SPRINKLER SYSTEM
ALLOWABLE AREA PER TABLE 506.2 = 43,500 SF MULTISTORY & SPRINKLERED
TOTAL ALLOWABLE BUILDING AREA = 43,500 SF
ACTUAL BUILDING AREA = 7,179 SF

BUILDING #5 (EXISTING)
PORTION OF EXISTING BUILDING ADJACENT TO NEW CONSTRUCTION BUILT IN 1993
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = TWO STORY
NON-SPRINKLERED BUILDING

BUILDING AREA:
EXISTING 1ST FLOOR BUILDING AREA = ~11,881 SF

<50% WORK AREA = LEVEL 2 ALTERATION
NO CHANGE IN OCCUPANCY
EXISTING EGRESS WIDTH MAINTAINED AT NEW DOOR OPENINGS

BUILDING #6 (NEW ADDITION) - GREENHOUSE
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = ONE STORY
NON SPRINKLERED BUILDING

FIRE SEPARATION:
2-HR FIRE WALL - TABLE 706.4

BUILDING AREA:
MAXIMUM BUILDING HEIGHT PER TABLE 504.3 = 75' W/ SPRINKLER SYSTEM
MAXIMUM NUMBER OF STORIES PER TABLE 504.4 = 3 STORIES W/ SPRINKLER SYSTEM
ALLOWABLE AREA PER TABLE 506.2 = 43,500 SF MULTISTORY & SPRINKLERED
TOTAL ALLOWABLE BUILDING AREA = 43,500 SF
ACTUAL BUILDING AREA = 2,229 SF

BUILDING #7 (EXISTING AQUATIC)
PORTION OF EXISTING BUILDING ADJACENT TO NEW CONSTRUCTION BUILT IN 1993

BUILDING AREA:
EXISTING 1ST FLOOR BUILDING AREA = ~ 32,699 SF
NO WORK IN BUILDING

SANITARY FIXTURE CALCULATIONS

SCENARIO #1: RESTROOMS FOR TYPICAL SCHOOL DAY BASED ON MAXIMUM EXPECTED STUDENT ENROLLMENT & CURRENT STAFF COUNTS* ('E' OCCUPANCY USE)
TOTAL 'E' OCCUPANTS:600 STUDENTS and 60 STAFF = 660 OCCUPANTS
330 MEN and 330 WOMEN

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS	DRINK FOUNTAINS
FORMULA	M (1:50)	W (1:50)	M (1:50)	W (1:50)		1:100
REQUIRED	6.6	6.6	6.6	6.6	0	6.6

SCENARIO #2: RESTROOMS FOR A GYMNASIUM AND STAGE EVENT ('A-3' OCCUPANCY USE)
TOTAL 'A-3' OCCUPANTS: 1700 capacity per 1993 drawings

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS	DRINK FOUNTAINS
FORMULA	M (1:125)	W (1:65)	M (1:200)	W (1:200)		1:500
REQUIRED	6.8	13	4.25	4.25	0	3.4

TOTAL FIXTURES PROVIDED

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS**	DRINK FOUNTAINS
	MEN****	WOMEN	MEN	WOMEN		
PROVIDED	23 U / 16 WC	42	16	18	5**	18

*SPS 362.2902 (1) (e) ALLOWS THE REQUIRED TOILET FIXTURE COUNT TO BE BASED ON ACTUAL OCCUPANT LOAD RATHER THAN THE LOAD DETERMINED BY SQUARE FOOTAGE.

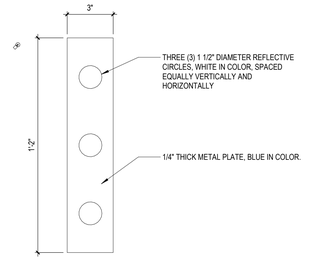
EXPECTED STUDENT ENROLLMENT: ~600 STUDENTS
CURRENT STAFF: 60 STAFF
TOTAL OCCUPANCY ~660 OCCUPANTS

SCENARIO #1 (FULL SCHOOL) AND SCENARIO #2 (GYMNASIUM EVENT) ARE NOT EXPECTED TO TAKE PLACE AT THE SAME TIME. BOTH SCENARIO #1 AND SCENARIO #2 CAN BE MEET BY PROVIDED FIXTURES.

** UNISEX TOILETS CAN BE USED TOWARD MENS OR WOMENS REQUIRED FIXTURE TOTAL (MEN'S AND WOMEN'S TOTAL FIXTURES SHOWN ABOVE DO NOT INCLUDE ANY UNISEX FIXTURES)

*** (x) WALL MOUNTED DRINK FOUNTAINS AND (x) DRINK FOUNTAINS PROVIDED AT CLASSROOM SINKS

**** SPS 362.2902 - 66% OF WATER CLOSETS (WC) CAN BE URINALS (U) IN BOTH 'E' AND 'A' OCCUPANCIES



2A
G0.1
EXTERIOR FIRE WALL SIGN
Scale: 3" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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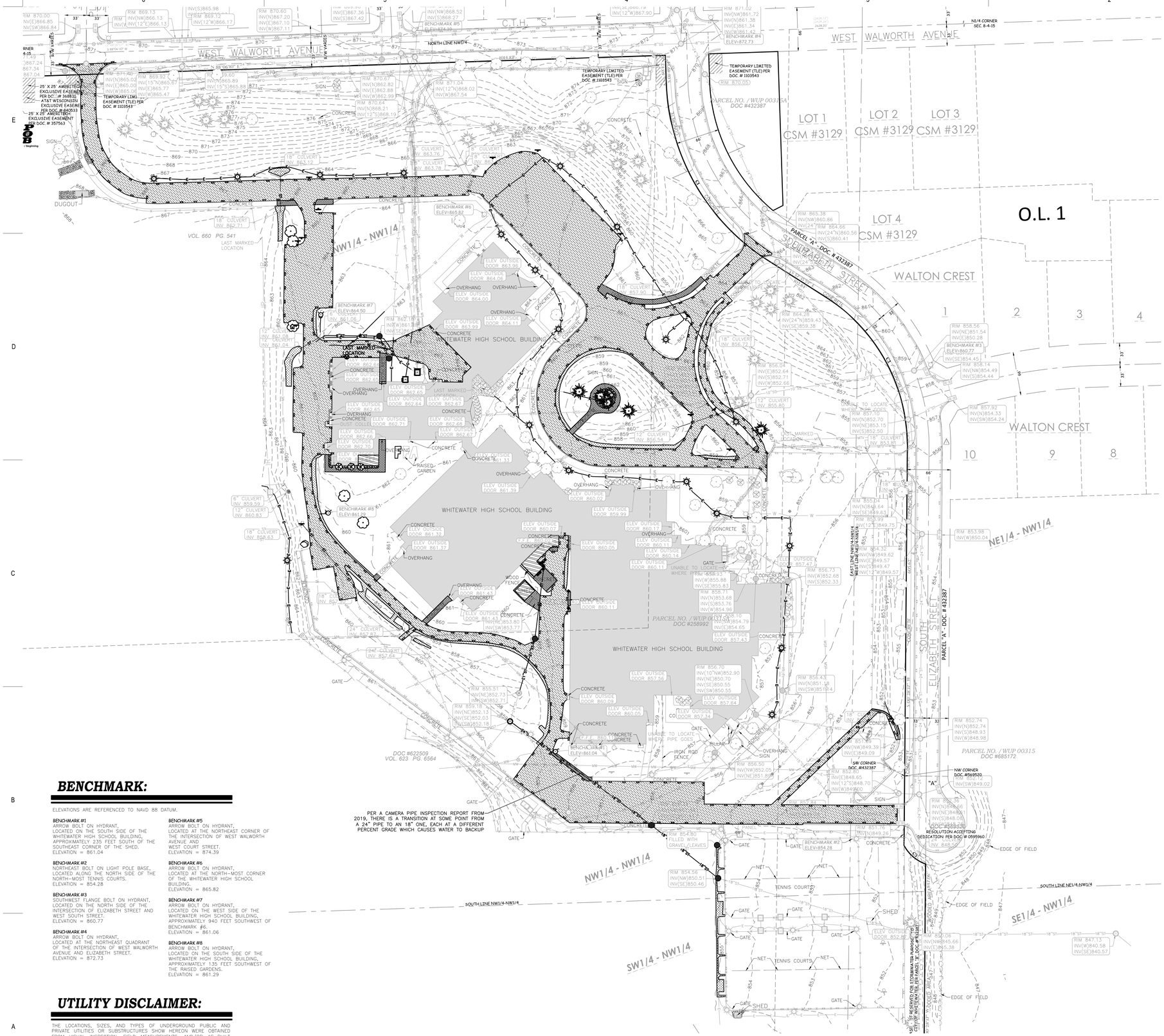

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. ALL DEMOLITION MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LEGAL MANNER EXCEPT FOR THOSE ITEMS NOTED TO BE SALVAGED, WHICH SHOULD BE TURNED OVER TO THE OWNER.
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C1.1 NORTHWEST DEMOLITION PLAN
C1.2 NORTHEAST DEMOLITION PLAN
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C1.4 SOUTHEAST DEMOLITION PLAN
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C6.0 DETAILS
C6.1 DETAILS
L1.0 LANDSCAPE PLAN

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

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ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
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T: 414.226.0200
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△	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
OVERALL DEMOLITION PLAN

Sheet Number:
C1.0

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Project Number:
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Sheet Title:
NORTHWEST DEMOLITION PLAN

Sheet Number:
C1.1

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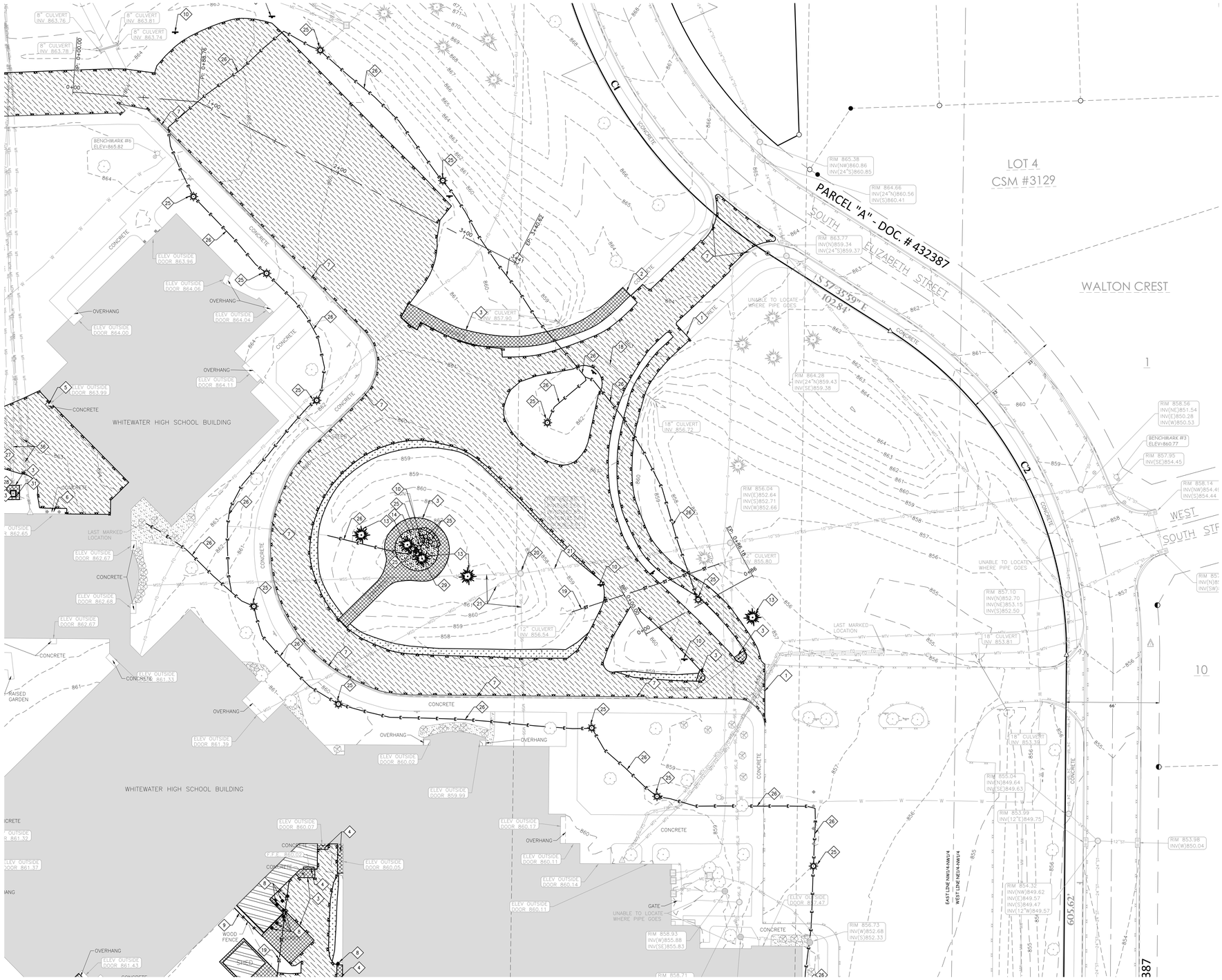

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Sheet Title:
NORTHEAST DEMOLITION PLAN

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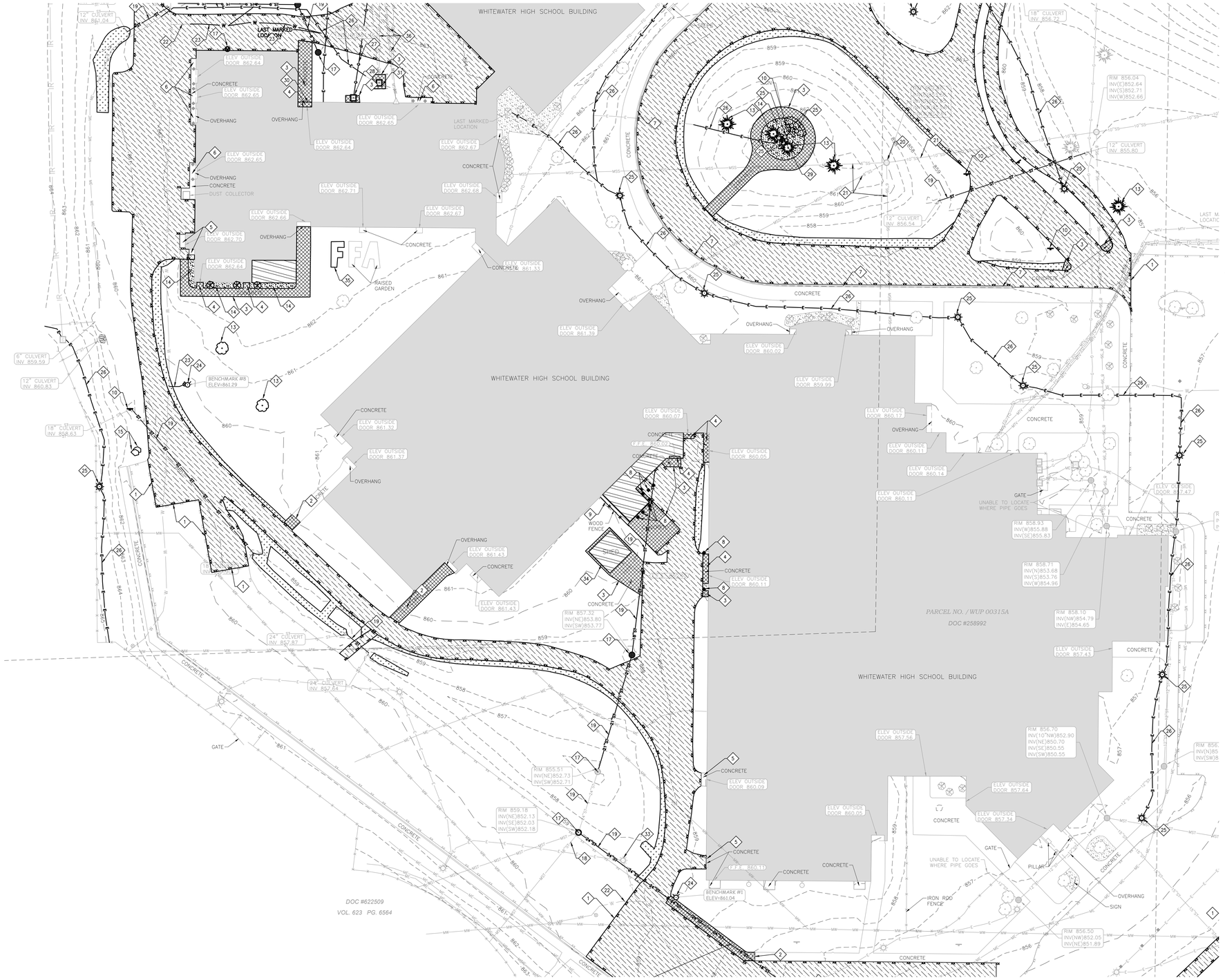

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3. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES FOR PERIMETER PROTECTION PRIOR TO THE START OF DEMOLITION/CONSTRUCTION, IN ACCORDANCE WITH THE LOCAL AND STATE GOVERNING AUTHORITIES.
4. BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE.
5. ANY EXISTING PUBLIC & PRIVATE UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
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9. STRIP TOPSOIL WITHIN THE PROJECT LIMITS IN ACCORDANCE WITH THE PROJECT MANUAL SPECIFICATIONS.
10. IF STRIPPED TOPSOIL IS STOCKPILED ON SITE, SILT FENCE SHALL BE INSTALLED AROUND THE BASE OF THE STOCKPILE TO PREVENT SEDIMENT TRANSPORT.
11. PRIOR TO PERFORMING WORK WITHIN PUBLIC RIGHT OF WAYS, NOTIFY AND COORDINATE WORK WITH THE LOCAL MUNICIPALITY.
12. MAINTAIN TRAFFIC CIRCULATION TO ALL NEIGHBORING PROPERTIES SHOWN ON THIS DOCUMENT. COORDINATE ALL WORK WITH NEIGHBORING PROPERTY OWNERS.

KEYNOTES:

1. SAWCUT EXISTING ASPHALT PAVEMENT
2. SAWCUT EXISTING CONCRETE PAVEMENT
3. REMOVE EXISTING CONCRETE PAVEMENT
4. REMOVE EXISTING CONCRETE STOOP
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7. MAINTAIN EXISTING CONCRETE CURBING
8. REMOVE EXISTING BOLLARDS
9. REMOVE EXISTING FENCE
10. REMOVE/SALVAGE EXISTING SIGN
11. REMOVE & SALVAGE EXISTING BIRDHOUSE
12. MAINTAIN EXISTING TREE/VEGETATION
13. CLEAR & GRUB EXISTING TREE
14. REMOVE EXISTING LANDSCAPE AREA: TREES, SHRUBS, MULCH AND FILTER FABRIC
15. REMOVE LANDSCAPE BOULDER
16. MAINTAIN EXISTING STORM SEWER STRUCTURE
17. REMOVE EXISTING STORM SEWER STRUCTURE
18. MAINTAIN EXISTING STORM SEWER PIPE
19. REMOVE EXISTING STORM SEWER PIPE
20. ADJUST RIM OF EXISTING SANITARY SEWER STRUCTURE (SEE SHEETS C3.0–C3.4 FOR PROPOSED GRADES)
21. MAINTAIN EXISTING SANITARY SEWER PIPE
22. MAINTAIN EXISTING WATER SERVICE
23. REMOVE EXISTING WATER SERVICE
24. RELOCATE EXISTING HYDRANT/VALVE (SEE UTILITY PLAN)
25. REMOVE/RELOCATE EXISTING LIGHT/LIGHT POLE (SEE ELECTRICAL FOR RELOCATION)
26. REMOVE/RELOCATE EXISTING ELECTRICAL LINE (SEE ELECTRICAL FOR RELOCATION)
27. REMOVE/RELOCATE EXISTING GAS LINE (COORDINATE W/ UTILITIES)
28. REMOVE/RELOCATE EXISTING GAS METER (COORDINATE W/ UTILITIES)
29. REMOVE & SALVAGE EXISTING FLAG POLE
30. REMOVE EXISTING BUILDING CANOPY
31. REMOVE/RELOCATE EXISTING TRANSFORMER (COORDINATE W/ UTILITIES)
32. DETACH STORM FROM EXISTING MANHOLES. ABANDON EXISTING STORM IN PLACE. CAP BOTH ENDS AND FILL ENTIRE PIPE W/ SLURRY.
33. MAINTAIN EXISTING LIGHT POLE (ADJUST GRADES AROUND BASE PER GRADING PLAN)
34. RELOCATE EXISTING SHED. SEE SHEET C2.3 FOR PROPOSED SHED LOCATION.
35. REMOVE & SALVAGE EXISTING GARDEN BED
36. ADJUST DEPTHS OF EXISITNG UTILITIES. (SEE SHEET C3.1 FOR PROPOSED GRADE)

DEMOLITION HATCH PATTERNS:

BITUMINOUS REMOVAL (INCL. BASE MATERIAL)

CONCRETE REMOVAL (INCL. BASE MATERIAL)

GRAVEL REMOVAL

BUILDING REMOVAL

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH–MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

N

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

Δ	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
SOUTHWEST DEMOLITION PLAN

Sheet Number:
C1.3

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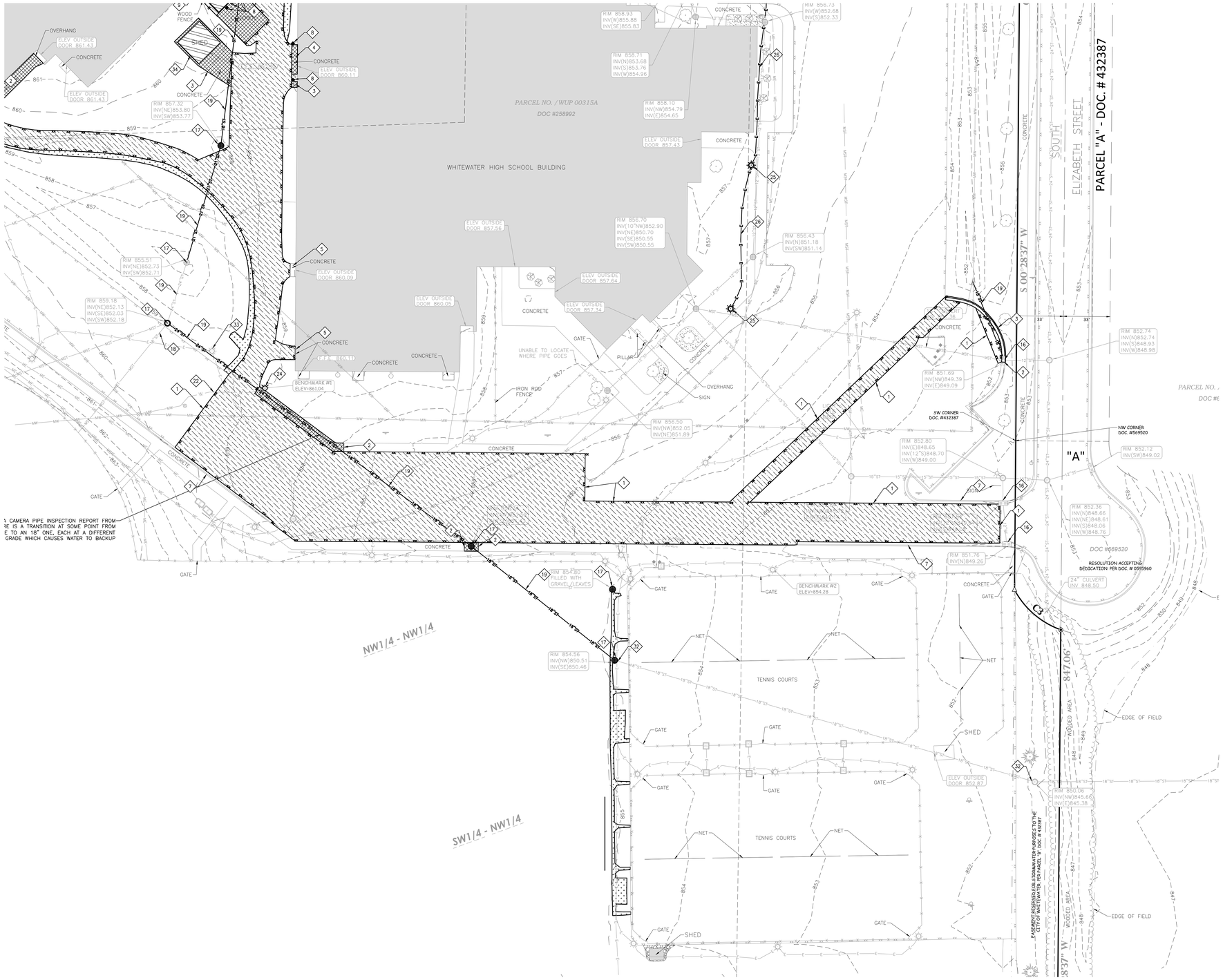

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

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ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH–MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
SOUTHEAST DEMOLITION PLAN

Sheet Number:
C1.4

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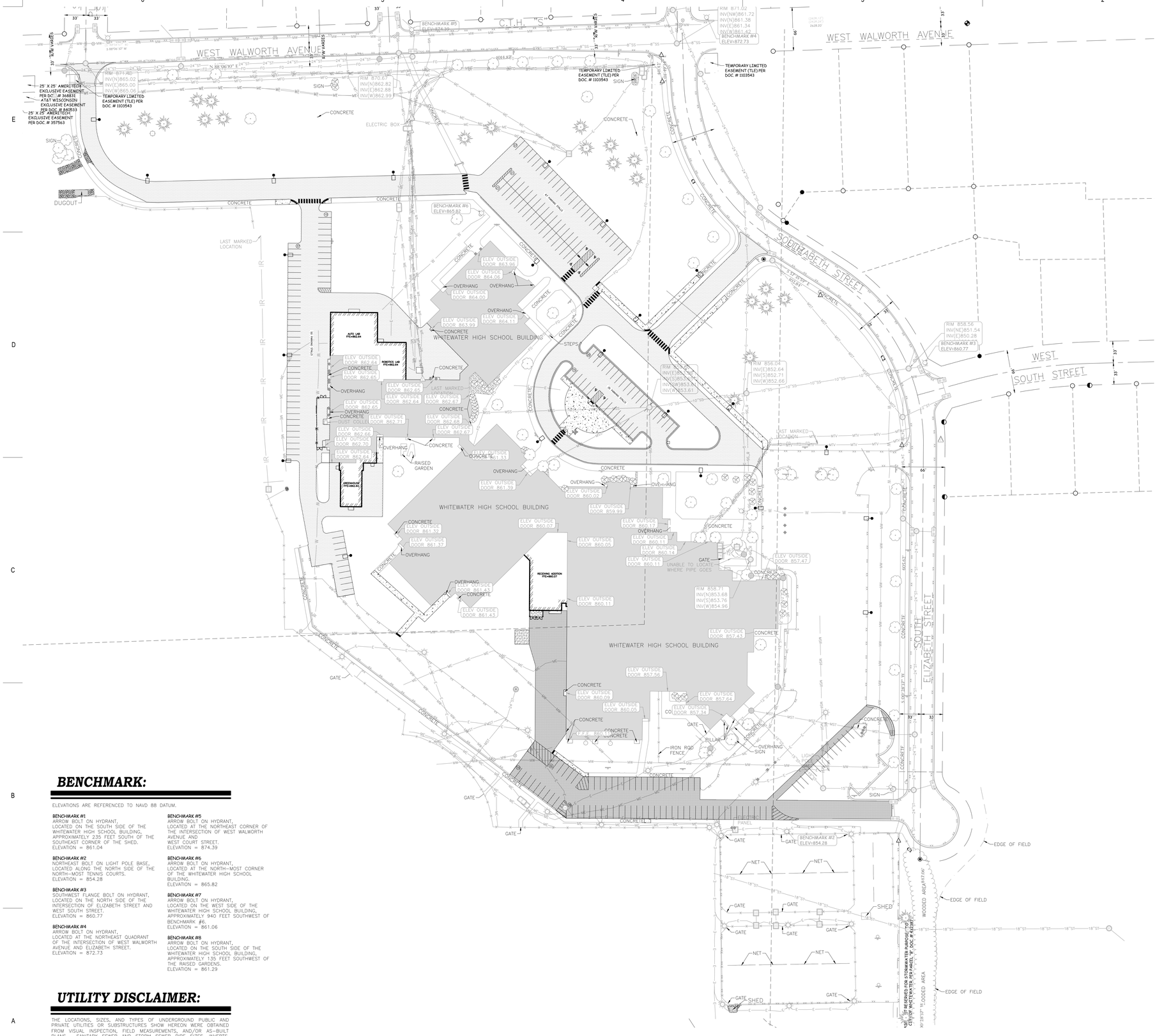

GENERAL NOTES:

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2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ALL REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
4. SEE SHEETS C4.0–C4.4 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
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7. BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE.
8. PRIOR TO STARTING WORK, VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
9. COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
10. PROVIDE PROPER BARRICADES, SIGNS, AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS.
11. SIDEWALK JOINTS SHALL BE INSTALLED AS INDICATED OR AS APPROVED BY THE CONSTRUCTION MANAGER.

SITE INFORMATION:

DEVELOPER: WHITEWATER UNIFIED SCHOOL DISTRICT

PLAN PREPARER: POINT OF BEGINNING, INC. – ANNA BLAKE

ZONING: I – INSTITUTIONAL DISTRICT

OCCUPANCY TYPE: EDUCATION

CURRENT LAND USE: HIGH SCHOOL
PROPOSED LAND USE: HIGH SCHOOL

LOT SIZE: 2,837,498 SQ–FT (65.14 ACRES)
DISTURB AREA: 338,644 SQ–FT (7.77 ACRES)

EXISTING HARDSCAPE: 506,360 SQ–FT / 2,837,498 = 17.85%
EXISTING BUILDING AREA: 184,972 SQ–FT / 2,837,498 = 6.52%
EXISTING LANDSCAPE AREA: 2,146,166 SQ–FT / 2,837,498 = 75.63%

PROPOSED HARDSCAPE: 681,502 SQ–FT / 2,837,498 = 24.02%
PROPOSED BUILDING AREA: 293,109 SQ–FT / 2,837,498 = 10.33%
PROPOSED LANDSCAPE AREA: 1,862,887 SQ–FT / 2,837,498 = 65.65%

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

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PAVEMENT HATCH PATTERNS:

PROPOSED STANDARD ASPHALT PAVEMENT	1 / C6.0
PROPOSED HEAVY DUTY ASPHALT PAVEMENT	1 / C6.0
PROPOSED STANDARD CONCRETE PAVEMENT	2 / C6.0
PROPOSED REINFORCED CONCRETE PAVEMENT	2 / C6.0

0' 60' 120'
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POB Project: 25.0087
Drawn: XXX Checked: JJL

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12/19/2025

Project Number:
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Sheet Title:
OVERALL LAYOUT PLAN

Sheet Number:
C2.0

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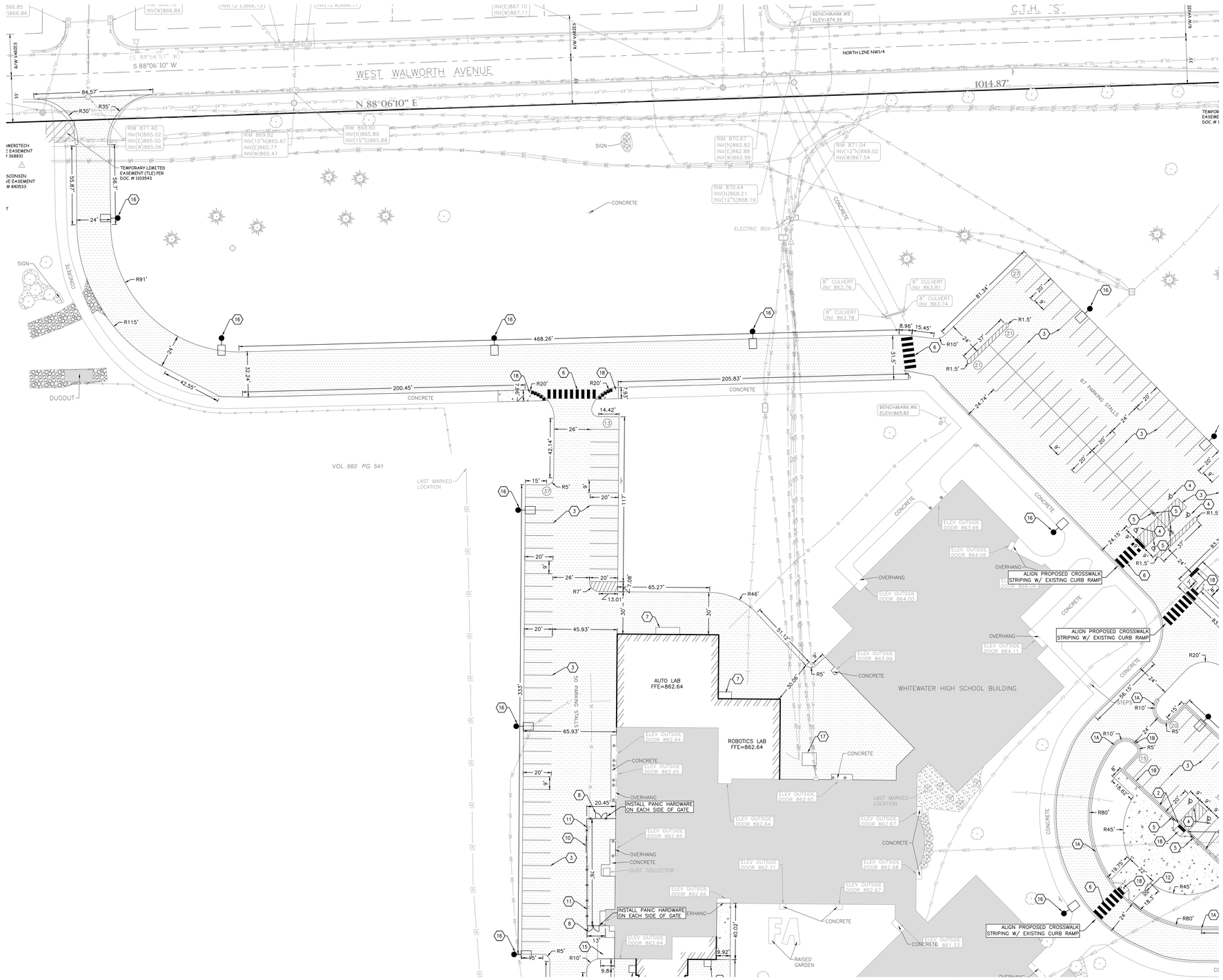

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ELEVATION = 861.04

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ELEVATION = 854.28

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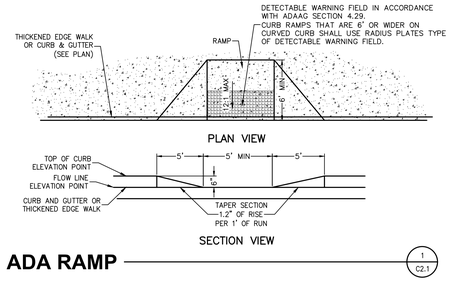

ADA RAMP — 1 / C2.1

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
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Issued for:
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Project Number:
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Sheet Title:
NORTHWEST LAYOUT PLAN

Sheet Number:
C2.1

0' 30' 60'
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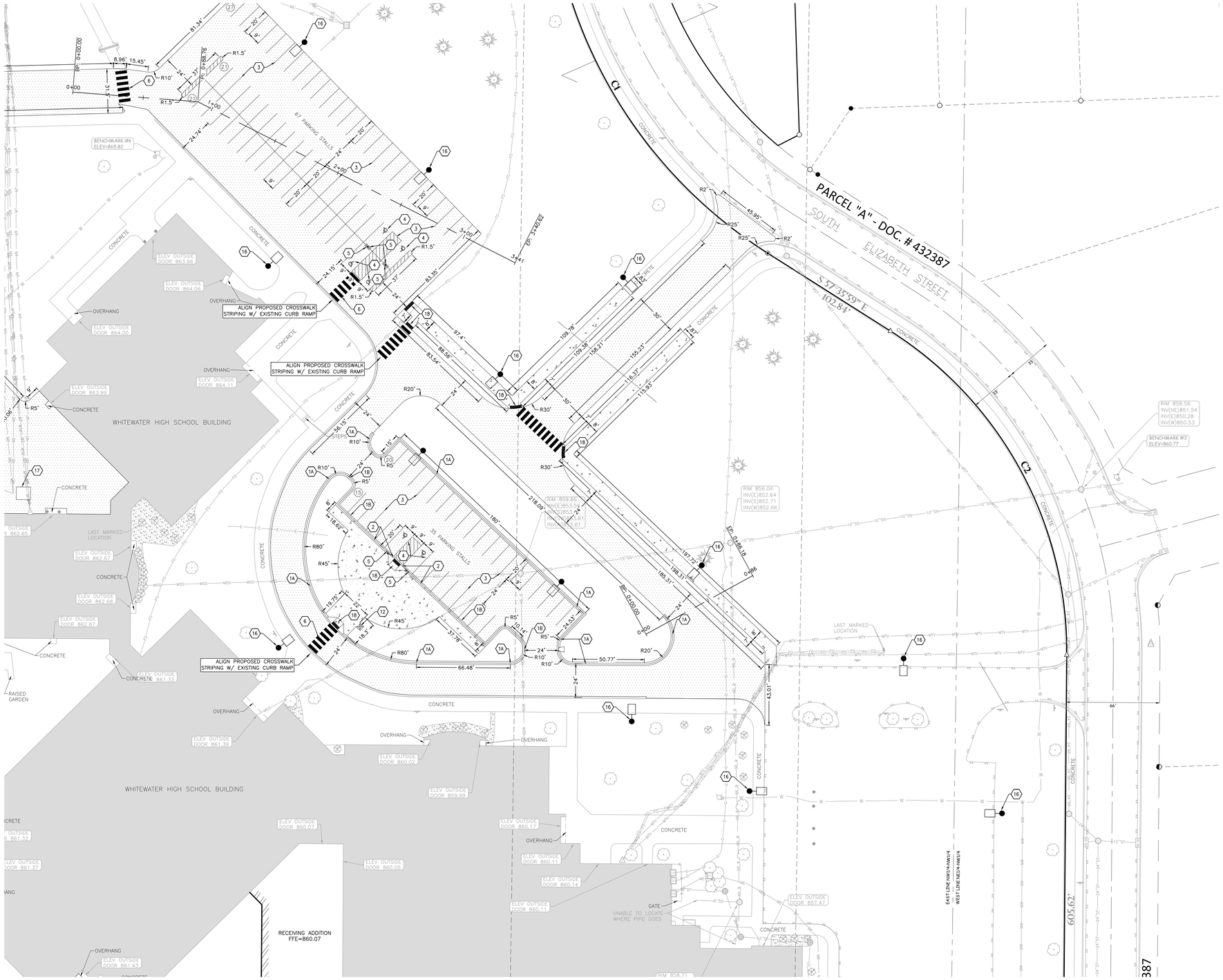

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N

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
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Project Number:
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Sheet Title:
NORTHEAST LAYOUT PLAN

Sheet Number:
C2.2

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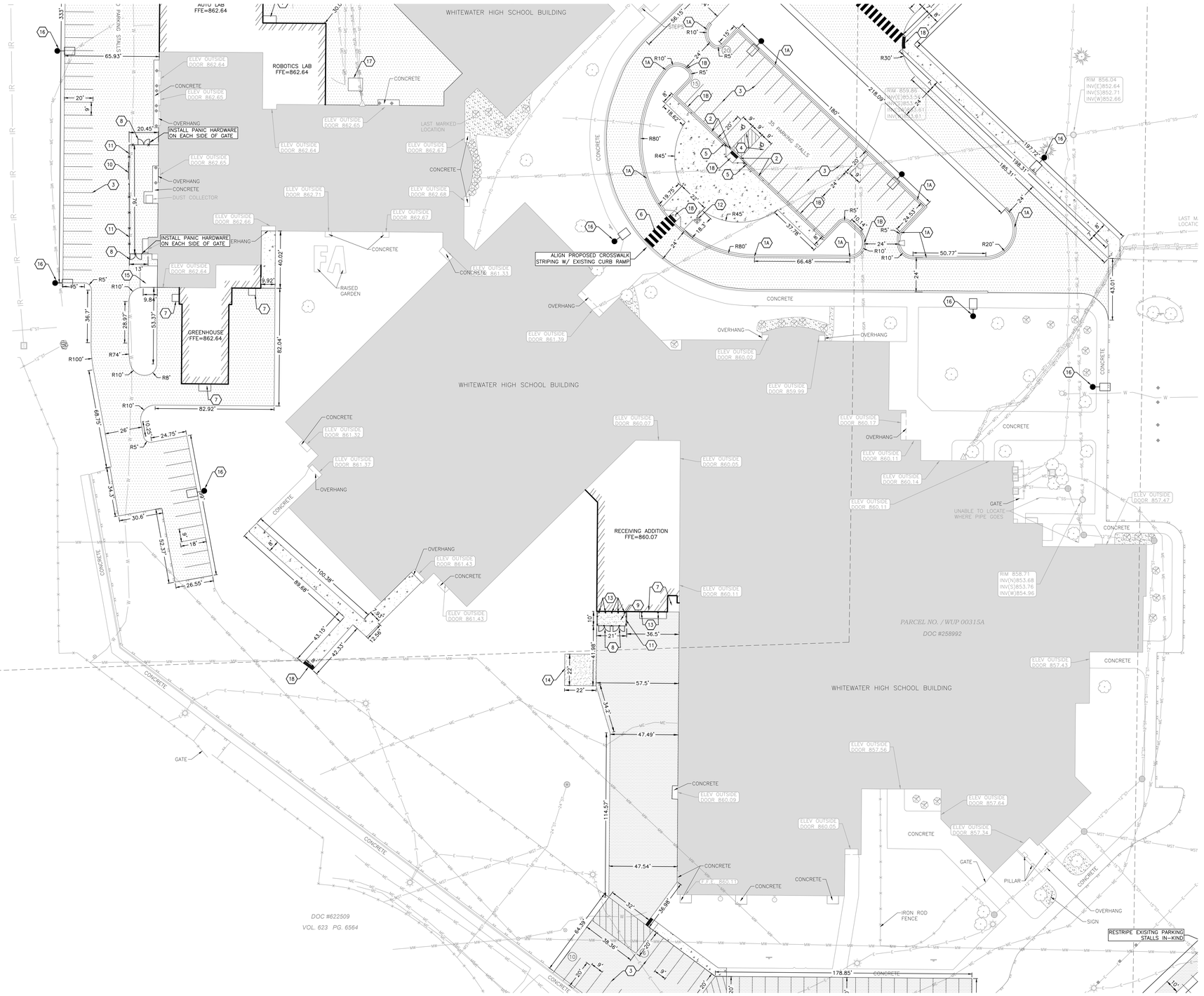

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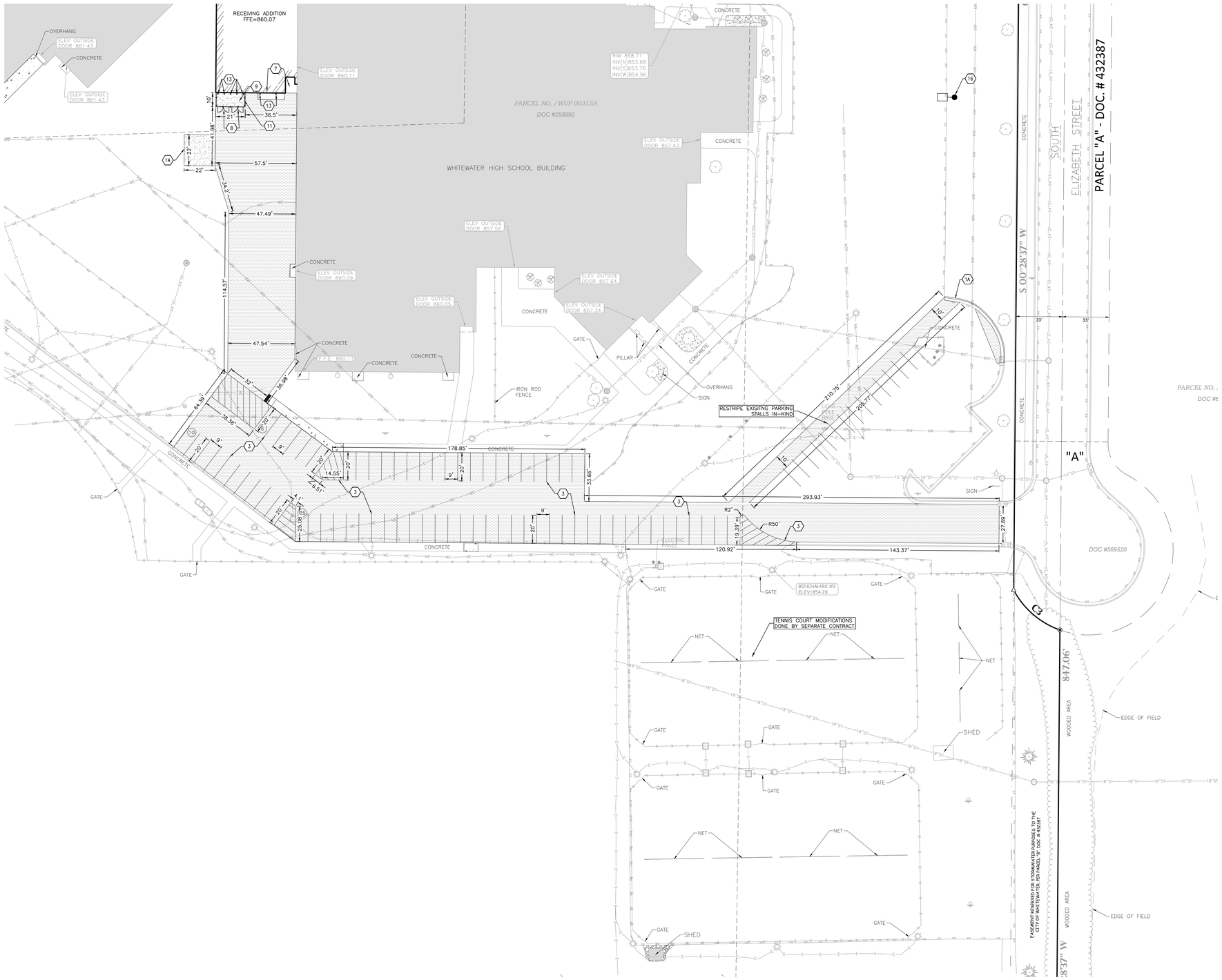

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LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH–MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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12/19/2025

Project Number:
3705

Sheet Title:
SOUTHEAST LAYOUT PLAN

Sheet Number:
C2.4

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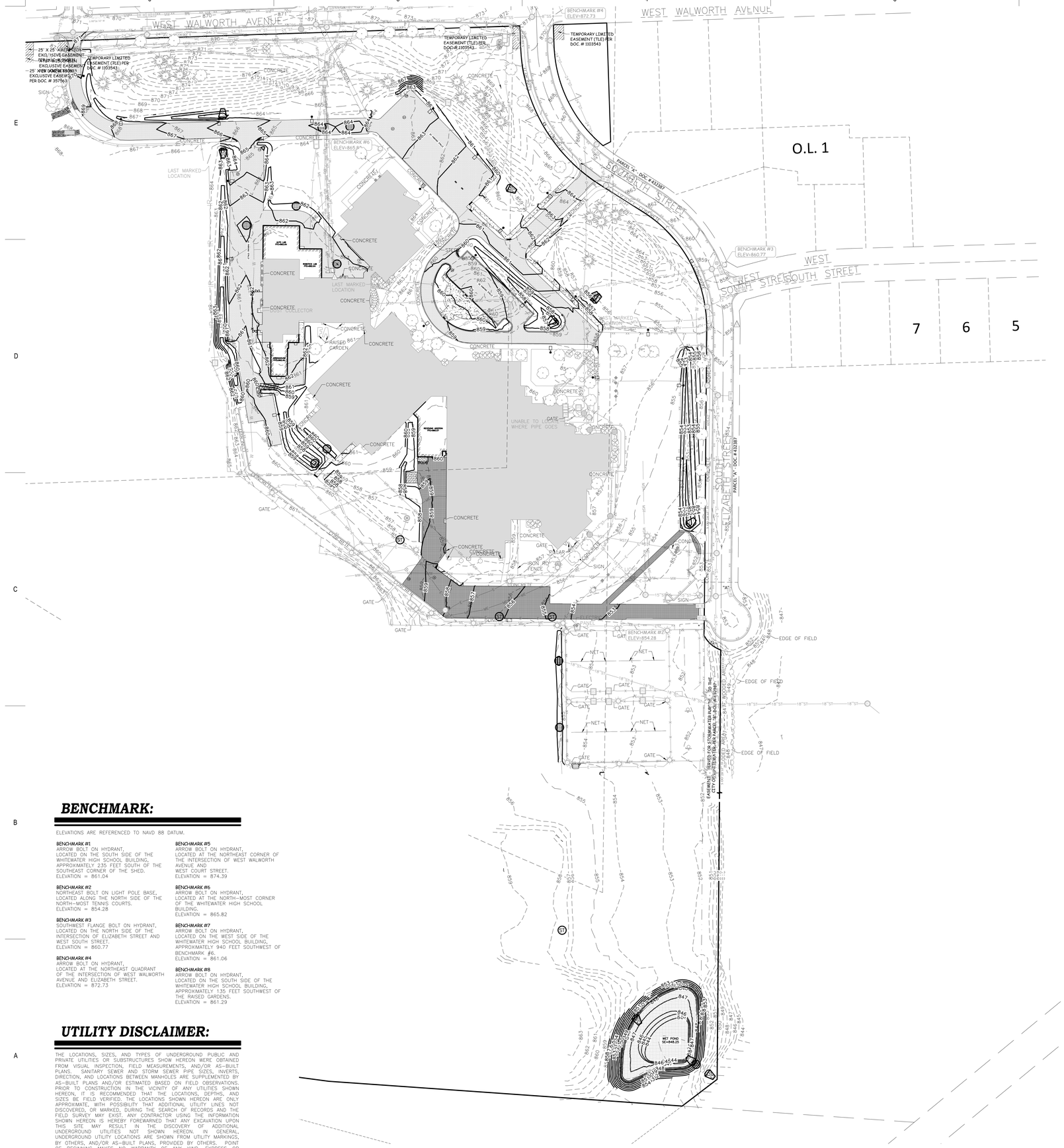

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE,
LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT,
LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

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GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION NOTED ON THE PLAN EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
3. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
6. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED, FERTILIZED, AND CRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SEE SHEETS C4.0–C4.4 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
8. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
9. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
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13. THE ENGINEERED SOIL SHALL NOT BE PLACED IN THE BIORETENTION AREAS UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE BIORETENTION AREA PRIOR TO PLACEMENT OF THE ENGINEERED SOIL.
14. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
15. THE LOCAL MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY.
16. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING.
17. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.
18. GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES OR UNLESS OTHERWISE NOTED.
19. INSTALL PROPOSED ATHLETIC FIELDS IN FULL COMPLIANCE WITH NATIONAL FEDERATION OF HIGH SCHOOLS (NFHS) RULES AND AMERICAN SPORTS BUILDERS ASSOCIATION (ASBA) CONSTRUCTION GUIDELINES. CONTACT CIVIL ENGINEER WITH ANY QUESTIONS.

GRADING LEGEND:

EXISTING CONTOUR	— — — 712 — — —
PROPOSED CONTOUR	712
PROPOSED SPOT ELEVATION	892.26
PROPOSED ENDWALL INVERT ELEVATION	INV=892.05
PROPOSED RIM ELEVATION	RIM=893.56
PROPOSED TOP OF CURB ELEVATION	TC=893.56
PROPOSED FLOW LINE ELEVATION	FL=893.56
PROPOSED TOP OF BERM ELEVATION	TB=893.56
PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY)	892.05M
PROPOSED ENDWALL STRUCTURE	10 / C6.1
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 / C6.1
PROPOSED STORM SEWER MANHOLE	11 / C6.1
PROPOSED STORM SEWER INLET	11 / C6.1
PROPOSED WET POND	1 / C6.1

0' 80' 160'
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Sheet Number:
C3.0

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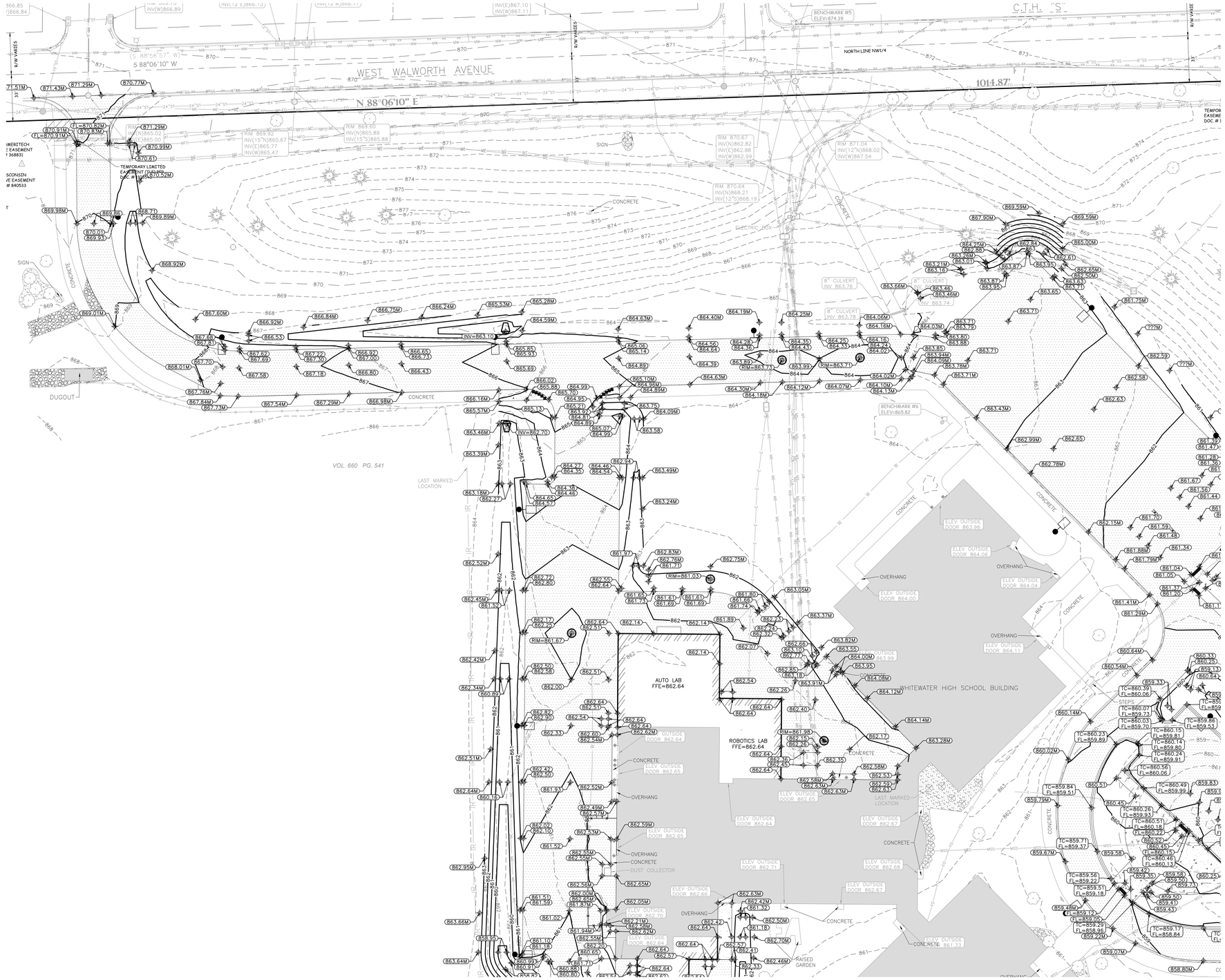

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13. THE ENGINEERED SOIL SHALL NOT BE PLACED IN THE BIORETENTION AREAS UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE BIORETENTION AREA PRIOR TO PLACEMENT OF THE ENGINEERED SOIL.
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GRADING LEGEND:

EXISTING CONTOUR	— — — 712 — — —
PROPOSED CONTOUR	712
PROPOSED SPOT ELEVATION	892.26
PROPOSED ENDWALL INVERT ELEVATION	INV=892.05
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PROPOSED ENDWALL STRUCTURE	10 C6.1
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 C6.1
PROPOSED STORM SEWER MANHOLE	S1 11 C6.1
PROPOSED STORM SEWER INLET	11 C6.1
PROPOSED WET POND	1 C6.1

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

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ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

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ELEVATION = 860.77

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ARROW BOLT ON HYDRANT,
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ELEVATION = 872.73

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ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
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NORTHWEST GRADING PLAN

Sheet Number:
C3.1

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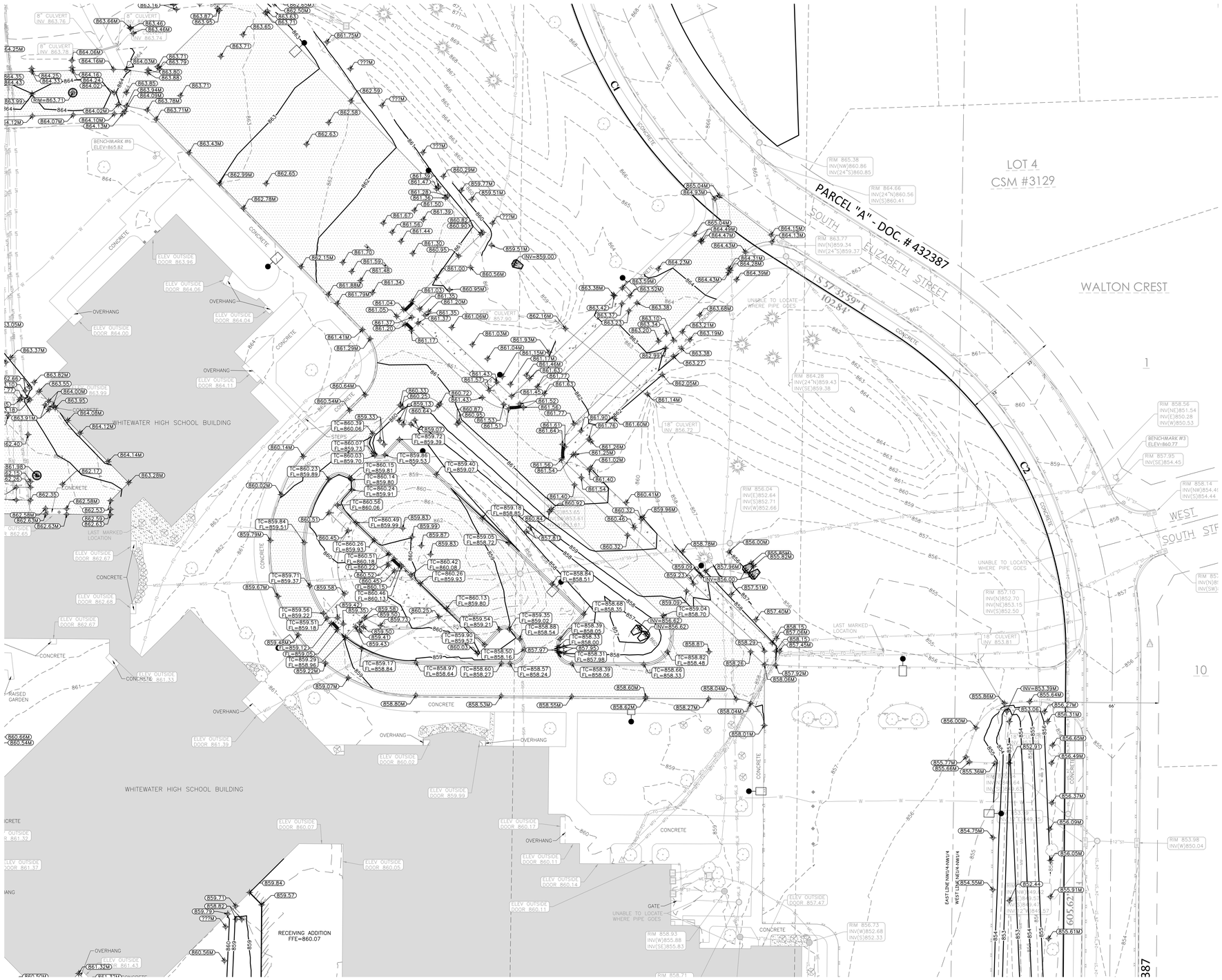

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EXISTING CONTOUR	— — — 712 — — —
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ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

Civil Engineering
Land Surveying
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4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(PH) 715.344.9922(FX)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
NORTHEAST GRADING PLAN

Sheet Number:
C3.2

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WHITEWATER HIGH SCHOOL BUILDING
AUTO LAB FFE=862.64
ROBOTICS LAB FFE=862.64
GREENHOUSE FFE=862.64
RECEIVING ADDITION FFE=860.07
RAISED GARDEN
CONCRETE
OVERHANG
ELEV OUTSIDE DOOR 862.64
ELEV OUTSIDE DOOR 862.65
ELEV OUTSIDE DOOR 862.67
ELEV OUTSIDE DOOR 862.71
ELEV OUTSIDE DOOR 862.68
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ELEV OUTSIDE DOOR 860.05
ELEV OUTSIDE DOOR 860.11
ELEV OUTSIDE DOOR 860.14
ELEV OUTSIDE DOOR 860.13
ELEV OUTSIDE DOOR 861.43
ELEV OUTSIDE DOOR 860.09
ELEV OUTSIDE DOOR 857.47
ELEV OUTSIDE DOOR 857.43
ELEV OUTSIDE DOOR 857.56
ELEV OUTSIDE DOOR 857.64
ELEV OUTSIDE DOOR 860.05
ELEV OUTSIDE DOOR 857.34
ELEV OUTSIDE DOOR 860.12
ELEV OUTSIDE DOOR 860.10
ELEV OUTSIDE DOOR 860.08
ELEV OUTSIDE DOOR 860.06
ELEV OUTSIDE DOOR 860.04
ELEV OUTSIDE DOOR 860.02
ELEV OUTSIDE DOOR 860.00
ELEV OUTSIDE DOOR 859.99
LAST MARKED LOCATION
PARCEL NO. / WUP 00315A
DOC #258992
DOC #622509
VOL. 623 PG. 6564
GATE
UNABLE TO LOCATE WHERE PIPE GOES
PILLAR
SIGN
IRON ROD FENCE
6" CULVERT INV 859.59
12" CULVERT INV 860.83
RIM=858.24
18" CULVERT INV 856.72
RIM 856.04 INV(E)852.64 INV(S)852.71 INV(W)852.66
RIM 858.33 INV(W)855.88 INV(SE)855.83
RIM 858.71 INV(N)853.68 INV(S)853.76 INV(W)854.96
RIM 858.10 INV(NW)854.79 INV(E)854.65
RIM 856.70 INV(10"NW)852.90 INV(NE)850.70 INV(SE)850.55 INV(SW)850.55
RIM 855.51 INV(NE)852.73 INV(SW)852.71
RIM 859.18 INV(NE)852.13 INV(SE)852.03 INV(SW)852.18
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RIM=859.18
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GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION NOTED ON THE PLAN EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
3. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
6. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED, FERTILIZED, AND CRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SEE SHEETS C4.0–C4.4 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
8. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
9. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
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13. THE ENGINEERED SOIL SHALL NOT BE PLACED IN THE BIORETENTION AREAS UNTIL THE SURROUNDING DRAINAGE AREA HAS BEEN FULLY STABILIZED. ALL CONSTRUCTION SITE SEDIMENT SHALL BE REMOVED FROM THE SUBGRADE OF THE BIORETENTION AREA PRIOR TO PLACEMENT OF THE ENGINEERED SOIL.
14. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
15. THE LOCAL MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY.
16. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING.
17. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.
18. GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES OR UNLESS OTHERWISE NOTED.
19. INSTALL PROPOSED ATHLETIC FIELDS IN FULL COMPLIANCE WITH NATIONAL FEDERATION OF HIGH SCHOOLS (NFHS) RULES AND AMERICAN SPORTS BUILDERS ASSOCIATION (ASBA) CONSTRUCTION GUIDELINES. CONTACT CIVIL ENGINEER WITH ANY QUESTIONS.

GRADING LEGEND:

EXISTING CONTOUR	— — — 712 — — —
PROPOSED CONTOUR	712
PROPOSED SPOT ELEVATION	892.26
PROPOSED ENDWALL INVERT ELEVATION	INV=892.05
PROPOSED RIM ELEVATION	RIM=893.56
PROPOSED TOP OF CURB ELEVATION	TC=893.56
PROPOSED FLOW LINE ELEVATION	FL=893.56
PROPOSED TOP OF BERM ELEVATION	TB=893.56
PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY)	892.05M
PROPOSED ENDWALL STRUCTURE	10 C6.1
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 C6.1
PROPOSED STORM SEWER MANHOLE	ST 11 C6.1
PROPOSED STORM SEWER INLET	11 C6.1
PROPOSED WET POND	1 C6.1

UTILITY DISCLAIMER:

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
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Sheet Title:
SOUTHEAST GRADING PLAN

Sheet Number:
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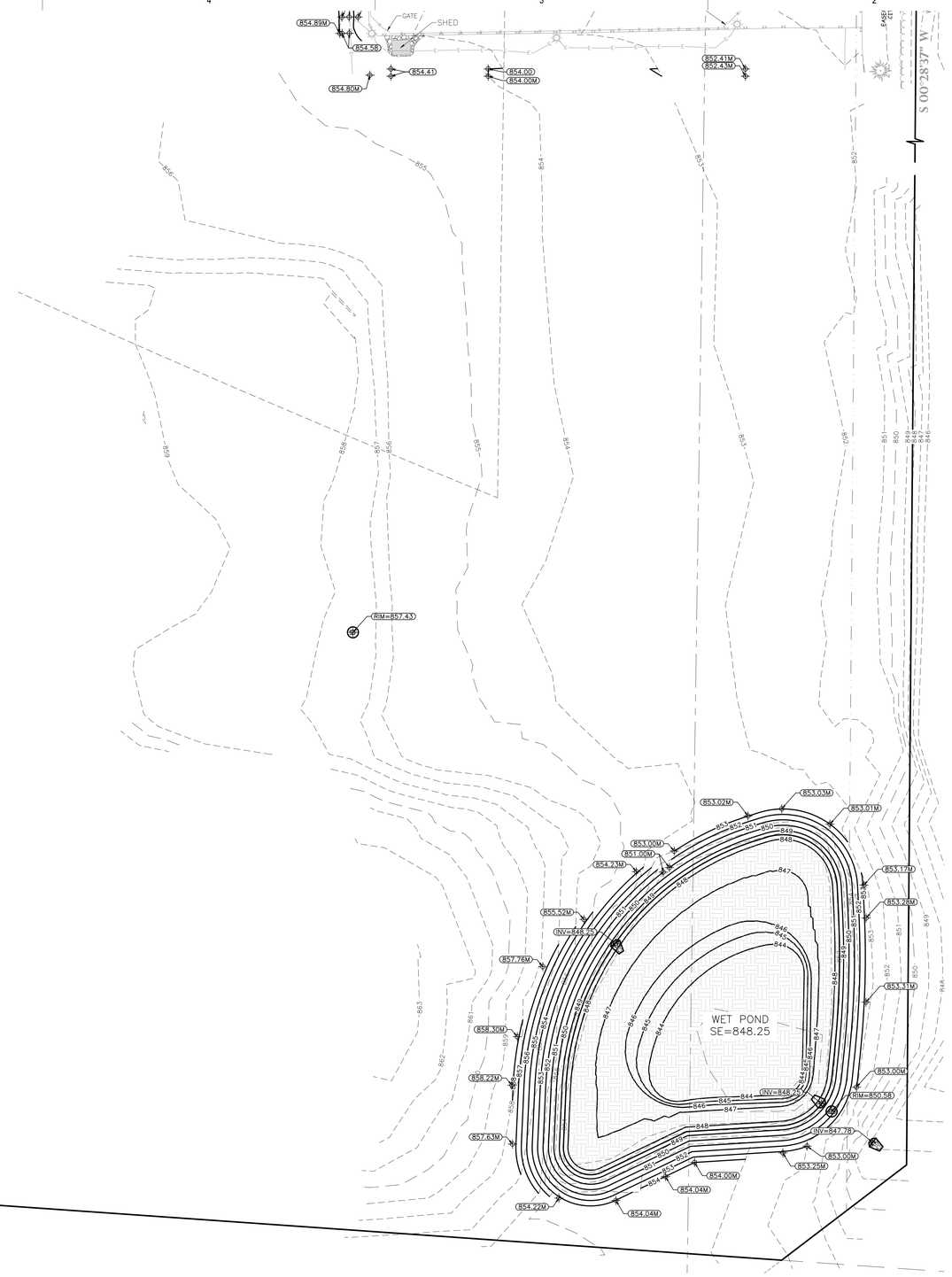

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ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

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ARROW BOLT ON HYDRANT,
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ELEVATION = 872.73

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ARROW BOLT ON HYDRANT,
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3705

Sheet Title:
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Sheet Number:
C3.5

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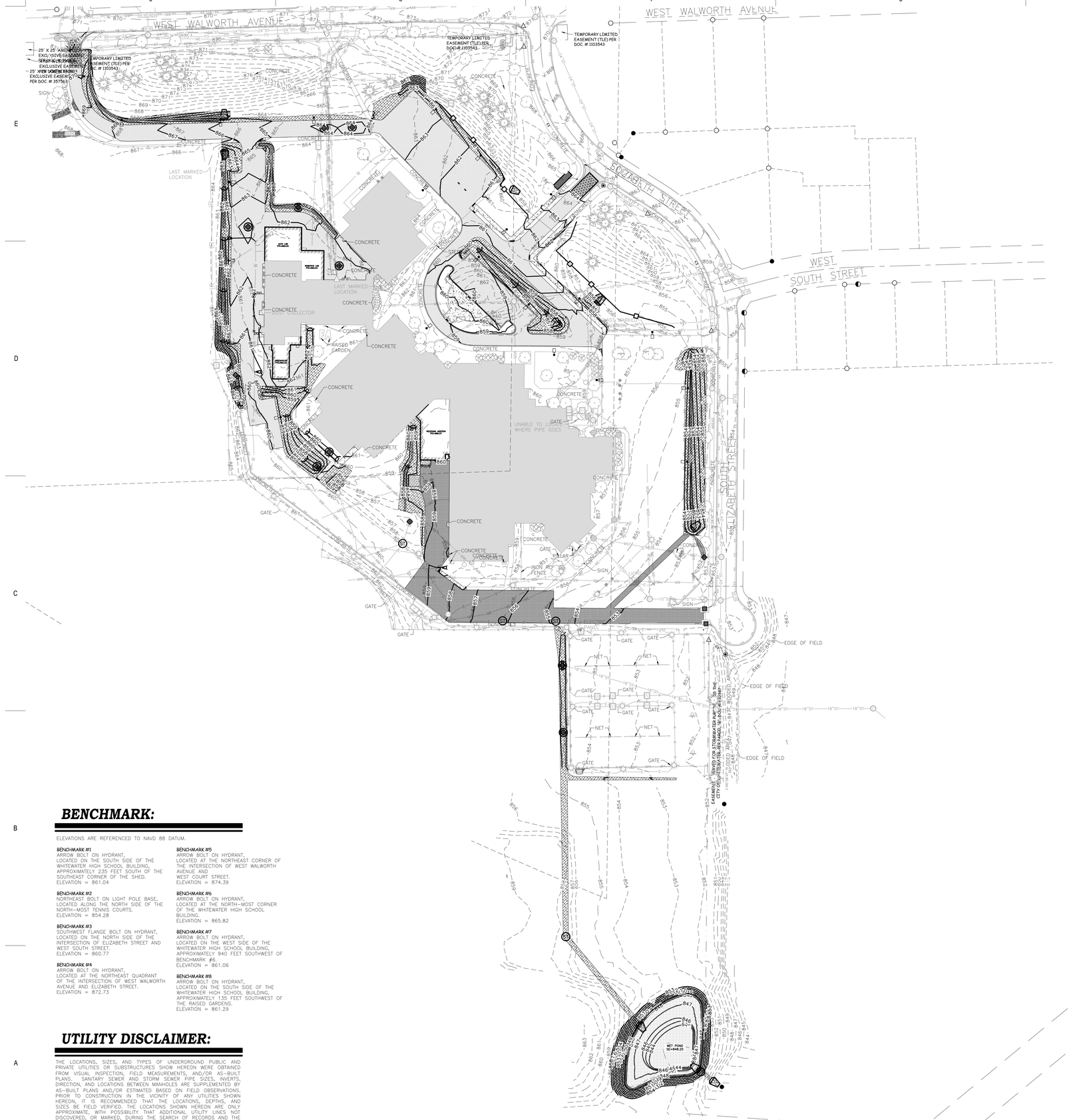

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

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ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

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LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

UTILITY DISCLAIMER:

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GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
6. OFFSITE SEDIMENT DEPOSITS RESULTING FROM STORMWATER RUNOFF SHALL BE CLEANED BY THE END OF THE NEXT WORKDAY. OFFSITE SEDIMENT DEPOSITS RESULTING FROM CONTRACTOR ACTIVITIES, INCLUDING SOIL TRACKING, SHALL BE CLEANED EACH WORKDAY. EXCESSIVE AMOUNTS OF SEDIMENT OR DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS ON ADJACENT STREETS SHALL SWEPT MECHANICALLY OR MANUALLY AT LEAST WEEKLY AND BEFORE IMMINENT RAINFALL.
7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
14. PROVIDE RIP RAP AT ALL CULVERT OUTFLOW ENDWALL STRUCTURES TO PREVENT WASHOUT AND EROSION.
15. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH ALL RIP RAP.
16. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOWFALL OR GROUND FREEZE.
17. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
18. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

EROSION CONTROL LEGEND:

EXISTING CONTOUR	888
PROPOSED CONTOUR	888
PROPOSED SILT FENCE	2 C6.1
PROPOSED INLET PROTECTION	3 C6.1
EROSION CONTROL BLANKET	4 C6.1
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ROCK CONSTRUCTION ENTRANCE	6 C6.1
TEMPORARY DITCH CHECK	7 C6.1
RIP RAP AREA	8 C6.1
CONCRETE WASHOUT AREA	9 C6.1

EROSION CONTROL SEQUENCING:

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2. EXCAVATE A TEMPORARY SEDIMENT TRAP IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1063
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   - 2.2. EXCAVATE TEMPORARY SWALES AWAY FROM THE BASIN TO DIRECT AND MAXIMIZE STORMWATER RUNOFF TO THIS BASIN DURING CONSTRUCTION.
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8. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.

0' 80' 160'
1" = 80'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
OVERALL EROSION CONTROL PLAN

Sheet Number:
C4.0

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0' 30' 60'
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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
NORTHWEST EROSION CONTROL PLAN

Sheet Number:
C4.1

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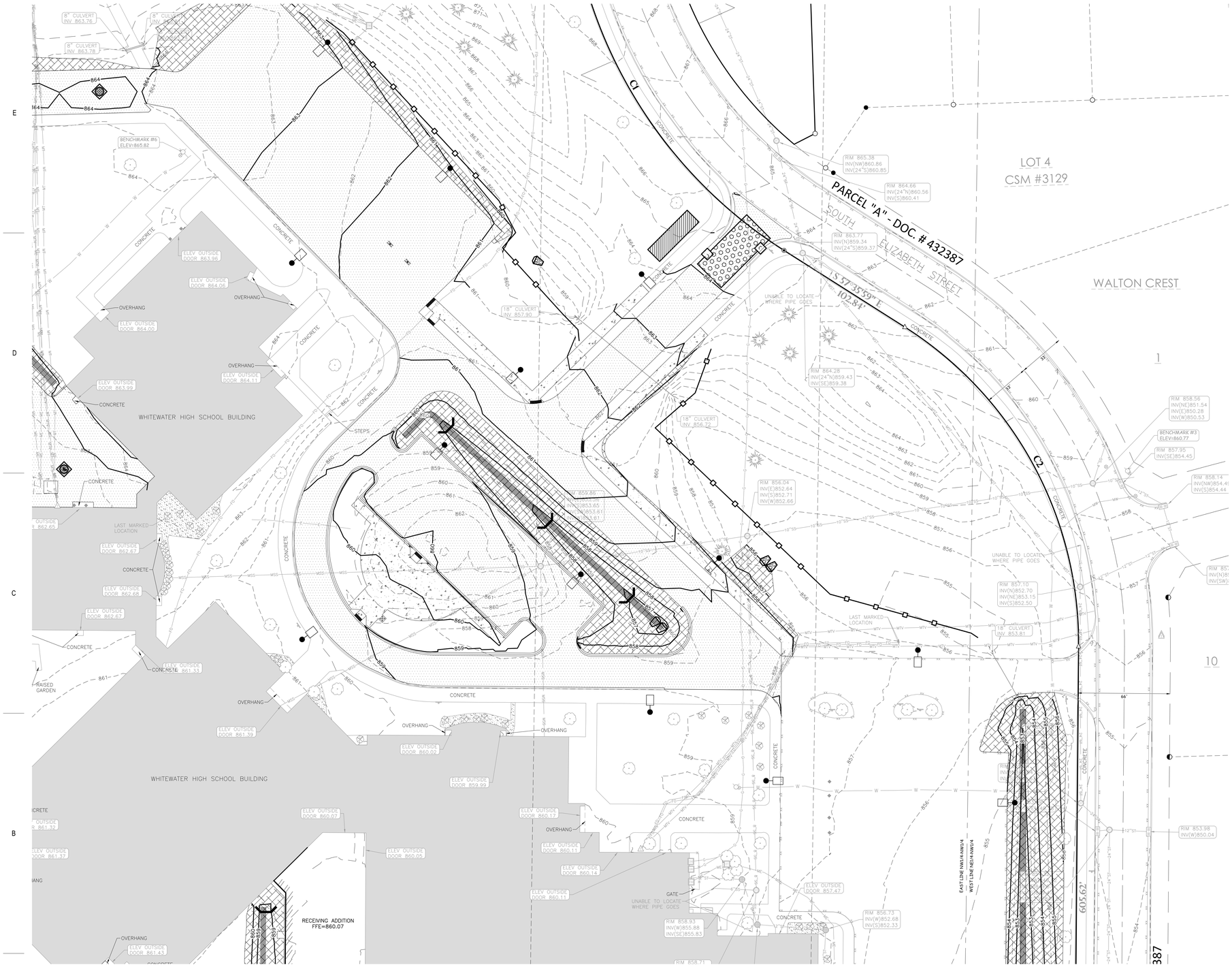

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH–MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
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ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
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WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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Project Number:
3705

Sheet Title:
NORTHEAST EROSION CONTROL PLAN

Sheet Number:
C4.2

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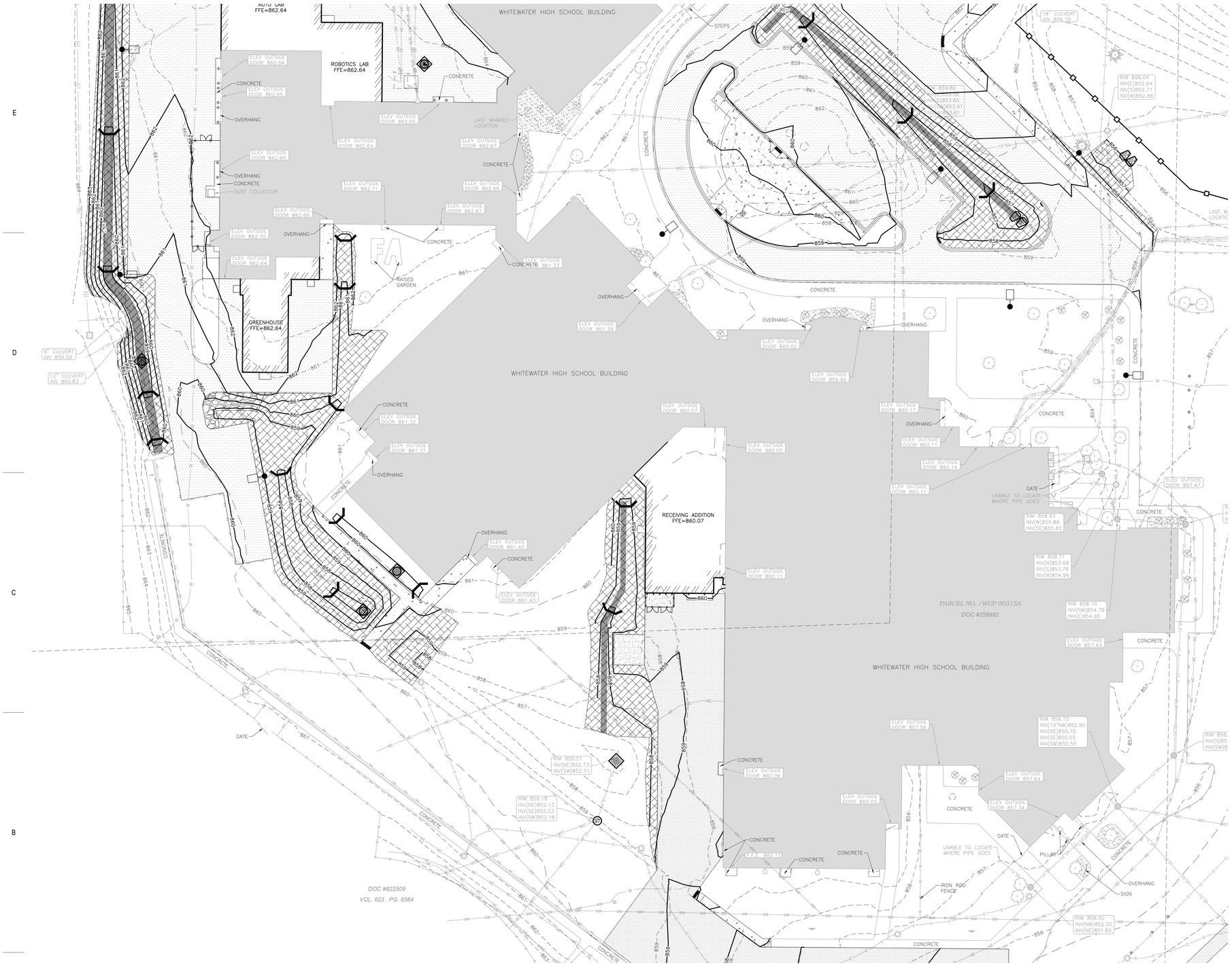

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
6. OFFSITE SEDIMENT DEPOSITS RESULTING FROM STORMWATER RUNOFF SHALL BE CLEANED BY THE END OF THE NEXT WORKDAY. OFFSITE SEDIMENT DEPOSITS RESULTING FROM CONTRACTOR ACTIVITIES, INCLUDING SOIL TRACKING, SHALL BE CLEANED EACH WORKDAY. EXCESSIVE AMOUNTS OF SEDIMENT OR DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS ON ADJACENT STREETS SHALL SWEPT MECHANICALLY OR MANUALLY AT LEAST WEEKLY AND BEFORE IMMINENT RAINFALL.
7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
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17. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
18. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400–187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

EROSION CONTROL LEGEND:

EXISTING CONTOUR	888
PROPOSED CONTOUR	888
PROPOSED SILT FENCE	2 C6.1
PROPOSED INLET PROTECTION	3 C6.1
EROSION CONTROL BLANKET	4 C6.1
EROSION CONTROL BLANKET (CHANNEL FLOW)	5 C6.1
ROCK CONSTRUCTION ENTRANCE	6 C6.1
TEMPORARY DITCH CHECK	7 C6.1
RIP RAP AREA	8 C6.1
CONCRETE WASHOUT AREA	9 C6.1

EROSION CONTROL SEQUENCING:

1. INSTALL PERIMETER EROSION CONTROL
2. EXCAVATE A TEMPORARY SEDIMENT TRAP IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1063
   - 2.1. INSTALL STONE OUTLET/OVERFLOW WEIR WHEREVER INDICATED ON PLANS
   - 2.2. EXCAVATE TEMPORARY SWALES AWAY FROM THE BASIN TO DIRECT AND MAXIMIZE STORMWATER RUNOFF TO THIS BASIN DURING CONSTRUCTION.
3. BEGIN DEMOLITION
4. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
5. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
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ELEVATION = 861.04

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ELEVATION = 854.28

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ELEVATION = 860.77

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ELEVATION = 872.73

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WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

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ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

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	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
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Sheet Title:
SOUTHWEST EROSION CONTROL PLAN

Sheet Number:
C4.3

0' 30' 60'
1" = 30'

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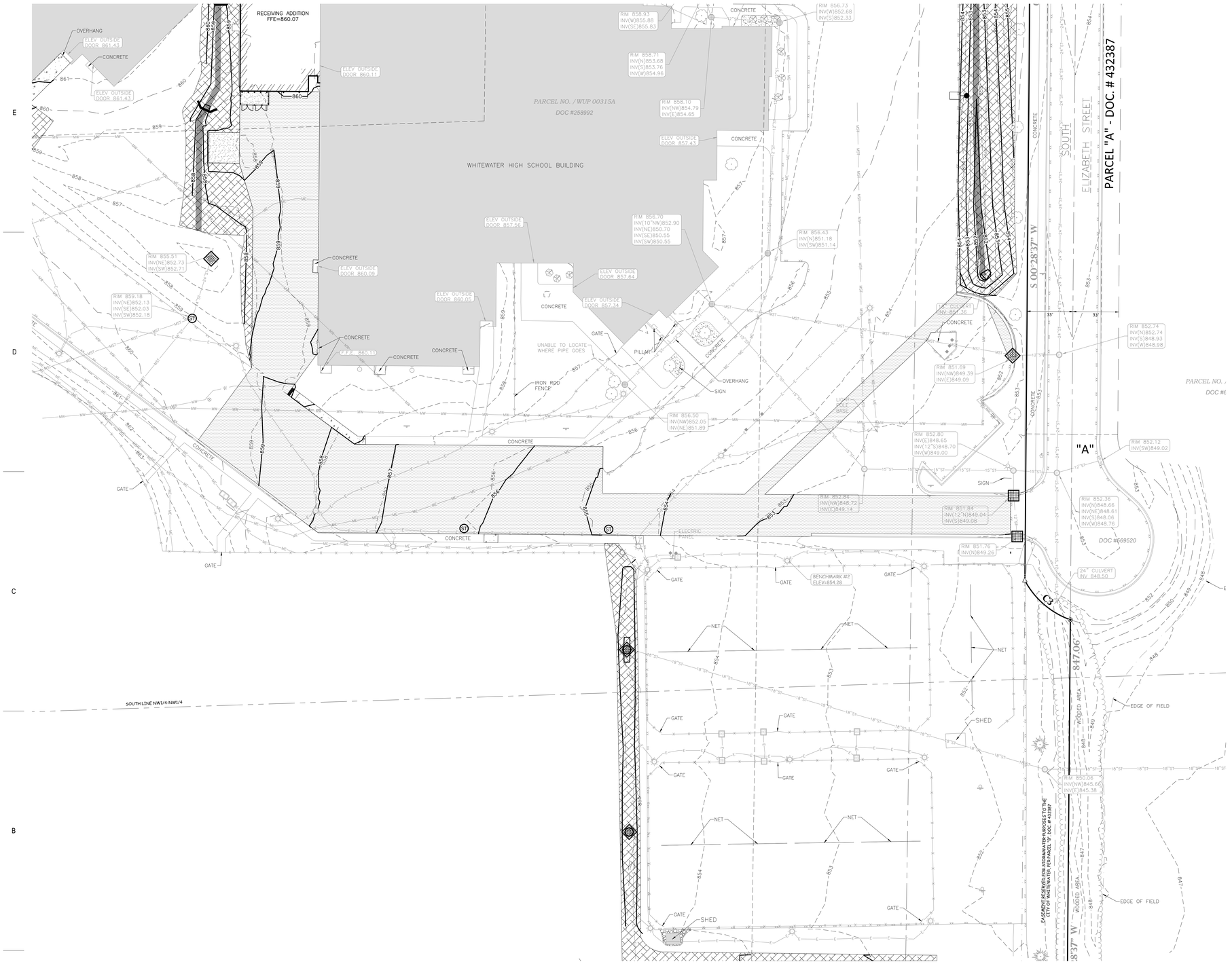

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EROSION CONTROL LEGEND:

- EXISTING CONTOUR — 888
- PROPOSED CONTOUR — 888
- PROPOSED SILT FENCE — 2 / C6.1
- PROPOSED INLET PROTECTION — 3 / C6.1
- EROSION CONTROL BLANKET — 4 / C6.1
- EROSION CONTROL BLANKET (CHANNEL FLOW) — 5 / C6.1
- ROCK CONSTRUCTION ENTRANCE — 6 / C6.1
- TEMPORARY DITCH CHECK — 7 / C6.1
- RIP RAP AREA — 8 / C6.1
- CONCRETE WASHOUT AREA — 9 / C6.1

EROSION CONTROL SEQUENCING:

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ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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12/19/2025

Project Number:
3705

Sheet Title:
SOUTHEAST EROSION CONTROL PLAN

Sheet Number:
C4.4

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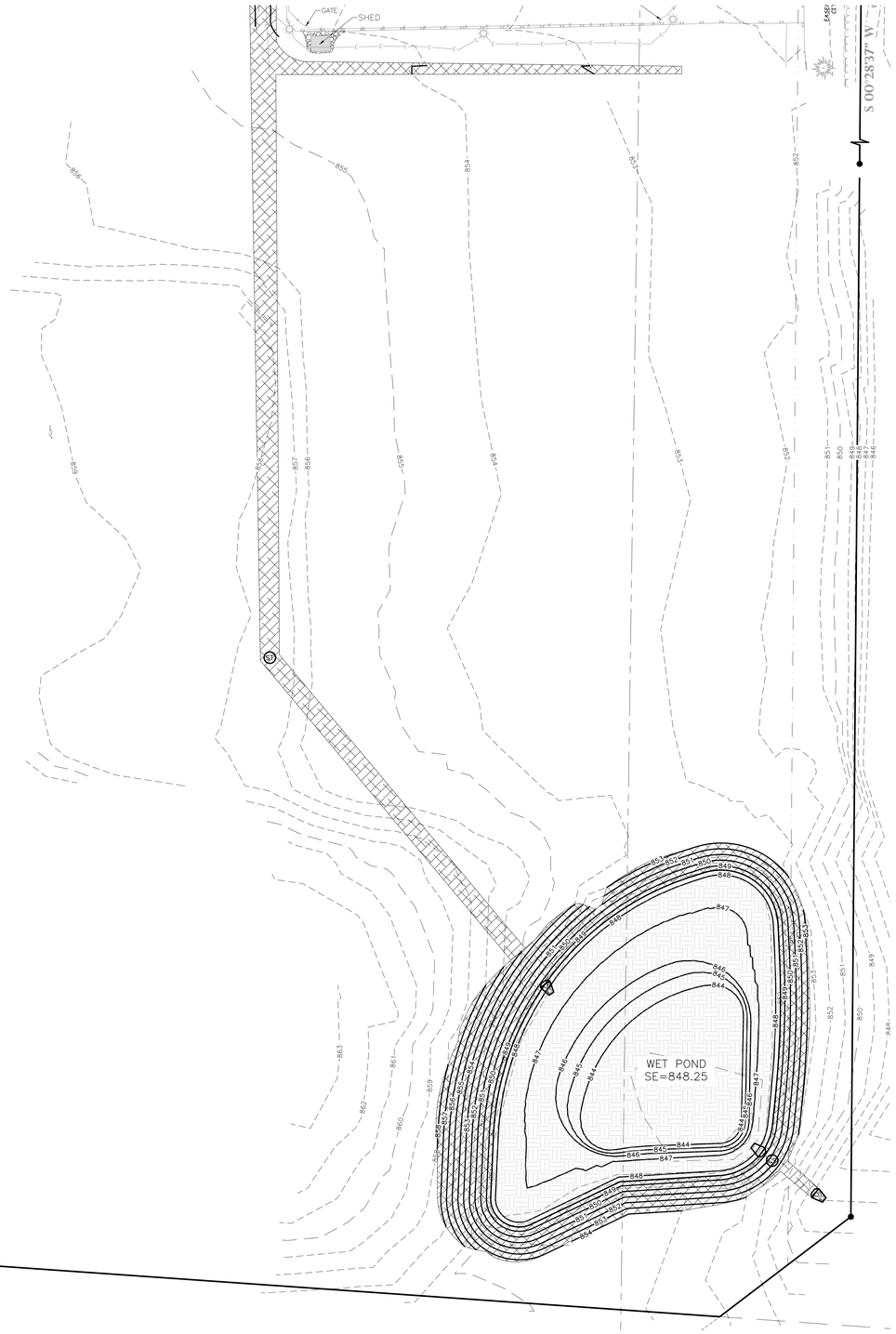

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7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
14. PROVIDE RIP RAP AT ALL CULVERT OUTFLOW ENDWALL STRUCTURES TO PREVENT WASHOUT AND EROSION.
15. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH ALL RIP RAP.
16. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOWFALL OR GROUND FREEZE.
17. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
18. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400–187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

EROSION CONTROL LEGEND:

EXISTING CONTOUR	888
PROPOSED CONTOUR	888
PROPOSED SILT FENCE	2 C6.1
PROPOSED INLET PROTECTION	3 C6.1
EROSION CONTROL BLANKET	4 C6.1
EROSION CONTROL BLANKET (CHANNEL FLOW)	5 C6.1
ROCK CONSTRUCTION ENTRANCE	6 C6.1
TEMPORARY DITCH CHECK	7 C6.1
RIP RAP AREA	8 C6.1
CONCRETE WASHOUT AREA	9 C6.1

EROSION CONTROL SEQUENCING:

1. INSTALL PERIMETER EROSION CONTROL
2. EXCAVATE A TEMPORARY SEDIMENT TRAP IN ACCORDANCE WITH DNR TECHNICAL STANDARD 1063
   - 2.1. INSTALL STONE OUTLET/OVERFLOW WEIR WHEREVER INDICATED ON PLANS
   - 2.2. EXCAVATE TEMPORARY SWALES AWAY FROM THE BASIN TO DIRECT AND MAXIMIZE STORMWATER RUNOFF TO THIS BASIN DURING CONSTRUCTION.
3. BEGIN DEMOLITION
4. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
5. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
6. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
7. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
8. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH–MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH–MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirchling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
SOUTH EROSION CONTROL PLAN

Sheet Number:
C4.5

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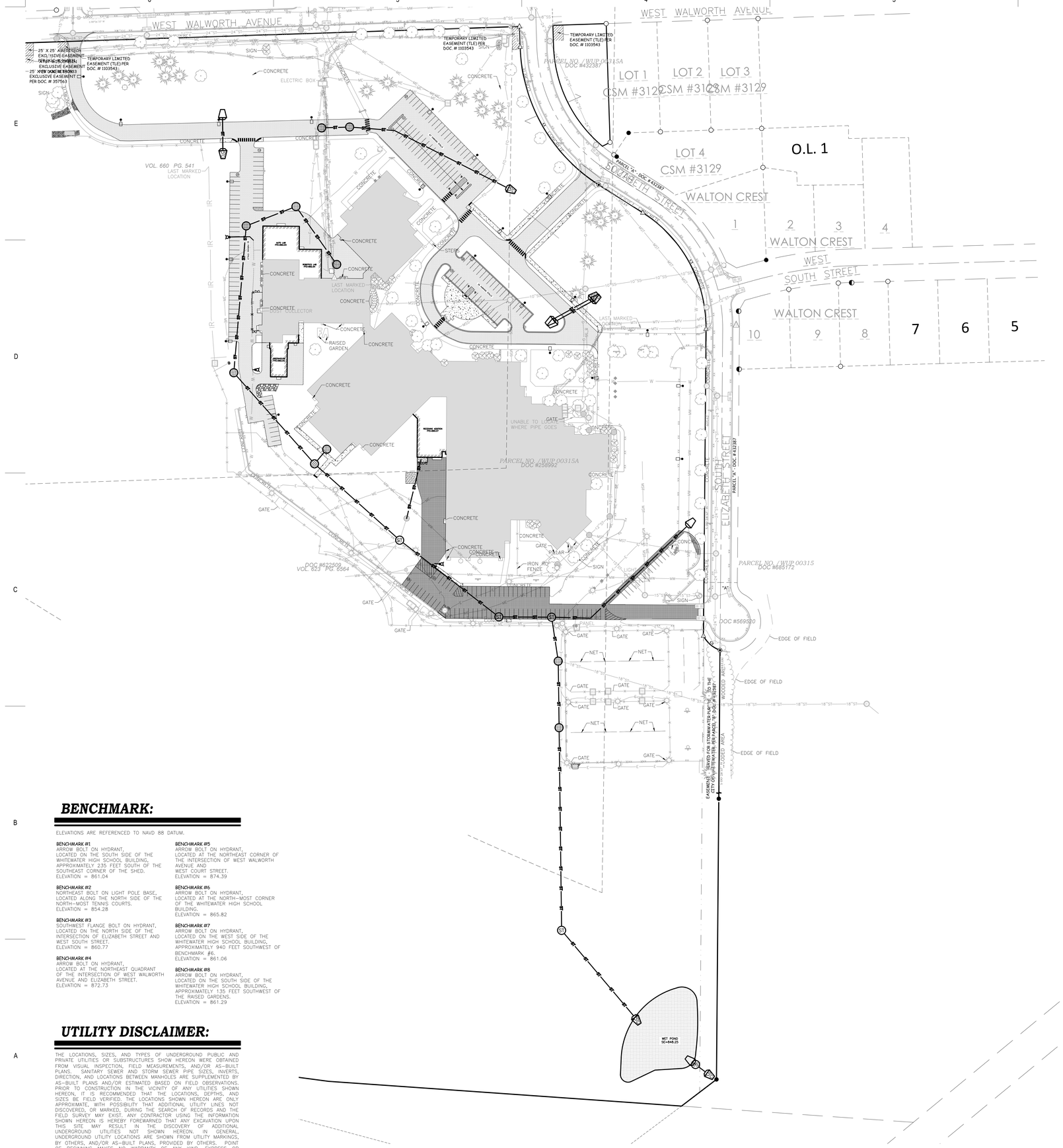

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

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ELEVATION = 861.04

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ELEVATION = 860.77

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ELEVATION = 872.73

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ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
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ELEVATION = 874.39

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ARROW BOLT ON HYDRANT,
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ELEVATION = 865.82

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ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING,
APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

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8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
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12. PROVIDE RIP RAP AT ALL STORM ENDWALLS TO PREVENT WASHOUT AND EROSION.
13. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH PROPOSED RIP RAP.

UTILITY LEGEND:

PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 / C6.1
PROPOSED ENDWALL STRUCTURE WITHOUT RIP RAP	10 / C6.1
PROPOSED STORM SEWER MANHOLE	ST / 11 / C6.1
PROPOSED STORM SEWER INLET	11 / C6.1
PROPOSED STORM SEWER CONTROL STRUCTURE	CS / 1 / C5.5
PROPOSED HYDRANT ASSEMBLY	12 / C6.1
PROPOSED RIP RAP AREA	7 / C6.1
PROPOSED WET POND	WET POND / 1 / C6.1

STORM MANHOLE SCHEDULE:

STRUCTURE #	STRUCTURE DETAILS
CS#1	RIM = 853.01 INV (NW) = 848.25 INV (SE) = 847.85 DEPTH = 5.16' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1733 CASTING W/ SOLID LID
ST#1	RIM = 863.73 INV (E) = 860.73 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#2	RIM = 863.71 INV (W) = 859.89 INV (E) = 859.89 DEPTH = 3.82' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#3	RIM = 861.98 INV (NW) = 859.44 DEPTH = 2.54' 36" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#4	RIM = 861.03 INV (SE) = 858.20 INV (W) = 858.20 DEPTH = 2.83' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#5	RIM = 861.67 INV (E) = 857.41 INV (S) = 857.41 DEPTH = 4.26' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#6	RIM = 858.24 INV (N) = 855.24 INV (SE) = 855.24 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#7	RIM = 856.72 INV (W) = 853.64 INV (NE) = 855.09 INV (SE) = 853.64 DEPTH = 3.08' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE

STRUCTURE #	STRUCTURE DETAILS
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ST#11	RIM = 853.58 INV (W) = 850.20 INV (E) = 850.20 INV (S) = 850.20 DEPTH = 6.99' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
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ST#14	RIM = 857.43 INV (N) = 848.77 INV (SE) = 848.77 DEPTH = 8.66' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID

0' 80' 160'
1" = 80'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

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534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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12/19/2025

Project Number:
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Sheet Title:
OVERALL UTILITY PLAN

Sheet Number:
C5.0

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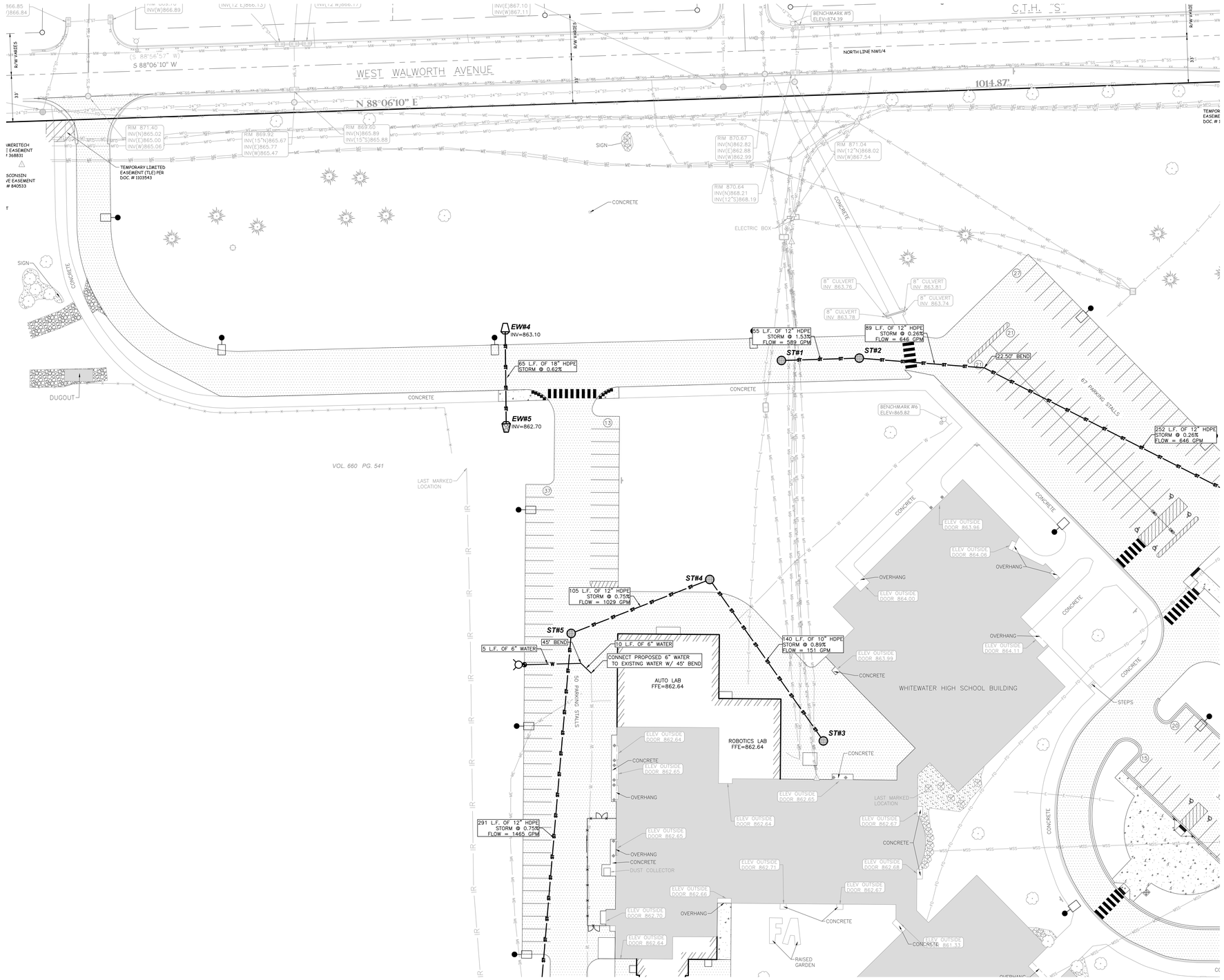

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PROPOSED STORM SEWER CONTROL STRUCTURE	CS 1 / C5.5
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ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
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Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
NORTHWEST UTILITY PLAN

Sheet Number:
C5.1

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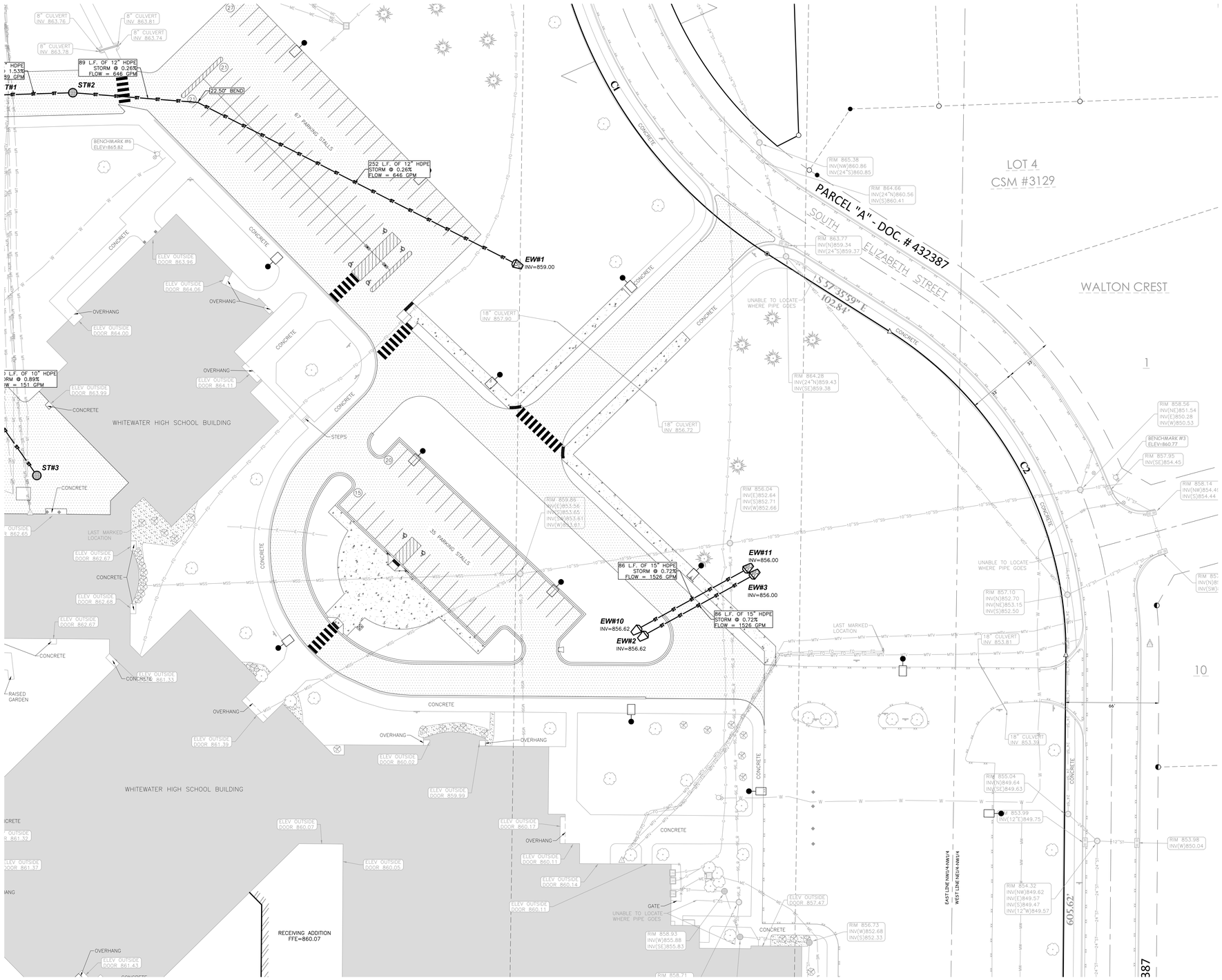

GENERAL NOTES:

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5. COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
6. COORDINATE UTILITY SERVICE DISCONNECTIONS/OUTAGES WITH OWNER AND ANY IMPACTED NEIGHBORS. MINIMIZE DISRUPTIONS TO THE MAXIMUM EXTENT PRACTICAL.
7. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY.
8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
9. THE PROPOSED WATER MAIN SHALL HAVE A MINIMUM COVER OF 7'-6" TO THE TOP OF PIPE FROM PROPOSED FINISHED GRADE. SEE SHEETS C3.0-C3.5 FOR PROPOSED FINISHED GRADES.
10. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES, IF NEEDED.
11. FIELD VERIFY INVERT ELEVATION OF THE WATER MAIN, AT THE LOCATION OF THE SERVICE LATERAL CONNECTIONS, PRIOR TO CONNECTING THE LATERALS TO THE MAIN.
12. PROVIDE RIP RAP AT ALL STORM ENDWALLS TO PREVENT WASHOUT AND EROSION.
13. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH PROPOSED RIP RAP.

UTILITY LEGEND:

PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 C6.1
PROPOSED ENDWALL STRUCTURE WITHOUT RIP RAP	10 C6.1
PROPOSED STORM SEWER MANHOLE	ST 11 C6.1
PROPOSED STORM SEWER INLET	11 C6.1
PROPOSED STORM SEWER CONTROL STRUCTURE	CS 1 C5.5
PROPOSED HYDRANT ASSEMBLY	12 C6.1
PROPOSED RIP RAP AREA	7 C6.1
PROPOSED WET POND	1 C6.1

STORM MANHOLE SCHEDULE:

STRUCTURE #	STRUCTURE DETAILS
CS#1	RIM = 853.01 INV (NW) = 848.25 INV (SE) = 847.85 DEPTH = 5.16' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1733 CASTING W/ SOLID LID
ST#1	RIM = 863.73 INV (E) = 860.73 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#2	RIM = 863.71 INV (W) = 859.89 INV (E) = 859.89 DEPTH = 3.82' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#3	RIM = 861.98 INV (NW) = 859.44 DEPTH = 2.54' 36" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#4	RIM = 861.03 INV (SE) = 858.20 INV (W) = 858.20 DEPTH = 2.83' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#5	RIM = 861.67 INV (E) = 857.41 INV (S) = 857.41 DEPTH = 4.26' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#6	RIM = 858.24 INV (N) = 855.24 INV (SE) = 855.24 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#7	RIM = 856.72 INV (NW) = 853.64 INV (NE) = 855.09 INV (SE) = 853.64 DEPTH = 3.08' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE

STRUCTURE #	STRUCTURE DETAILS
ST#8	RIM = 859.37 INV (SW) = 855.87 DEPTH = 3.50' 36" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#9	RIM = 859.18 INV (NW) = 852.13 INV (SE) = 852.03 DEPTH = 7.15' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
ST#11	RIM = 853.58 INV (W) = 850.20 INV (E) = 850.20 INV (S) = 850.20 DEPTH = 6.99' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
ST#12	RIM = 854.04 INV (N) = 850.00 INV (S) = 850.00 DEPTH = 4.05' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#13	RIM = 854.02 INV (N) = 849.69 INV (S) = 849.69 DEPTH = 4.33' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#14	RIM = 857.43 INV (N) = 848.77 INV (SE) = 848.77 DEPTH = 8.66' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID

UTILITY DISCLAIMER:

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

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NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

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ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

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ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

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ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

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ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

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ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
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Civil Engineering
Land Surveying
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12/19/2025

Project Number:
3705

Sheet Title:
NORTHEAST UTILITY PLAN

Sheet Number:
C5.2

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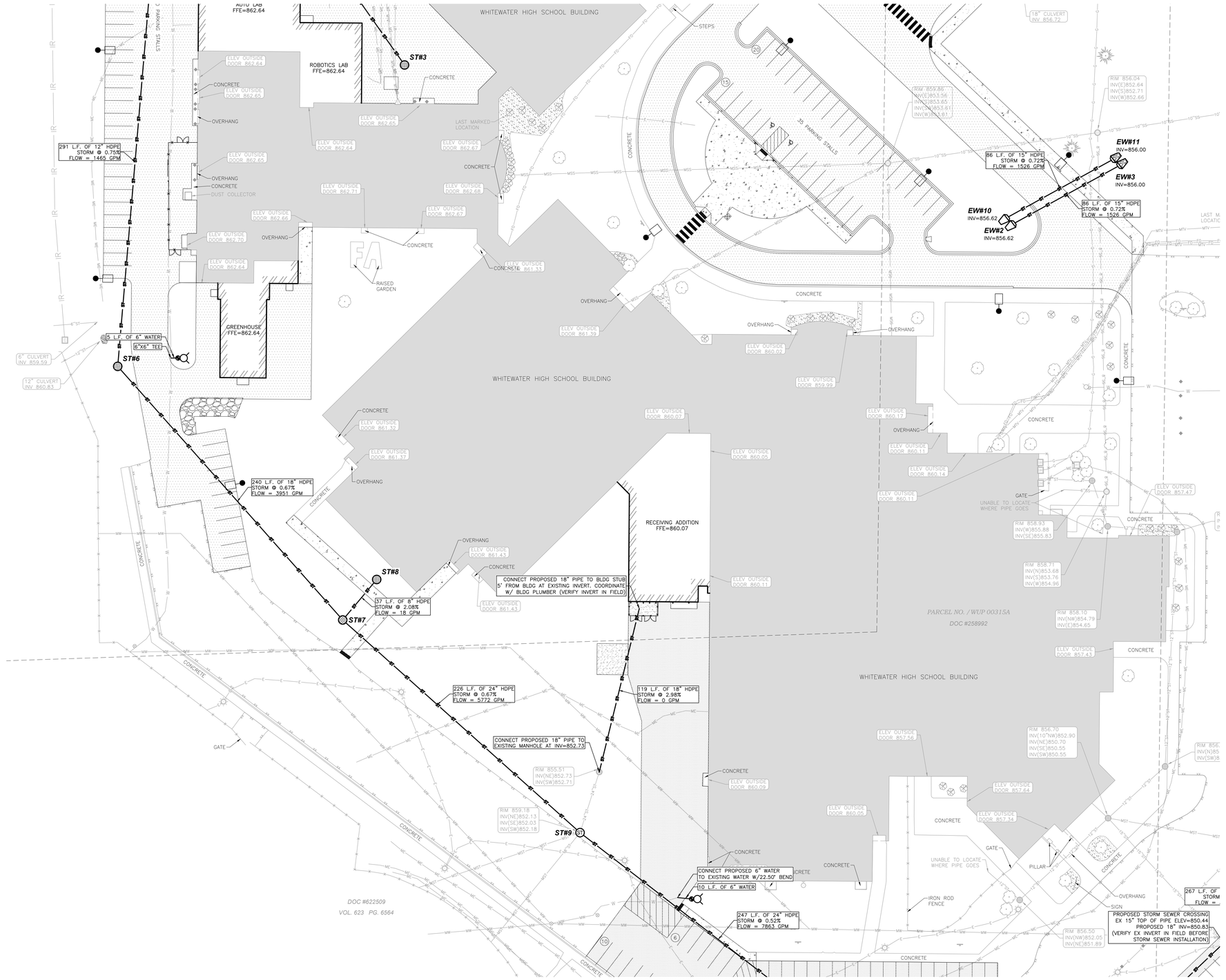

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UTILITY LEGEND:

PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 / C6.1
PROPOSED ENDWALL STRUCTURE WITHOUT RIP RAP	10 / C6.1
PROPOSED STORM SEWER MANHOLE	ST 11 / C6.1
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BRAY ARCHITECTS

Milwaukee
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www.brayarch.com

Civil Engineering
Land Surveying
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4941 Kirschling Court
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Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
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WHITEWATER, WI 53190

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	DATE	DESCRIPTION

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Project Number:
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Sheet Title:
SOUTHWEST UTILITY PLAN

Sheet Number:
C5.3

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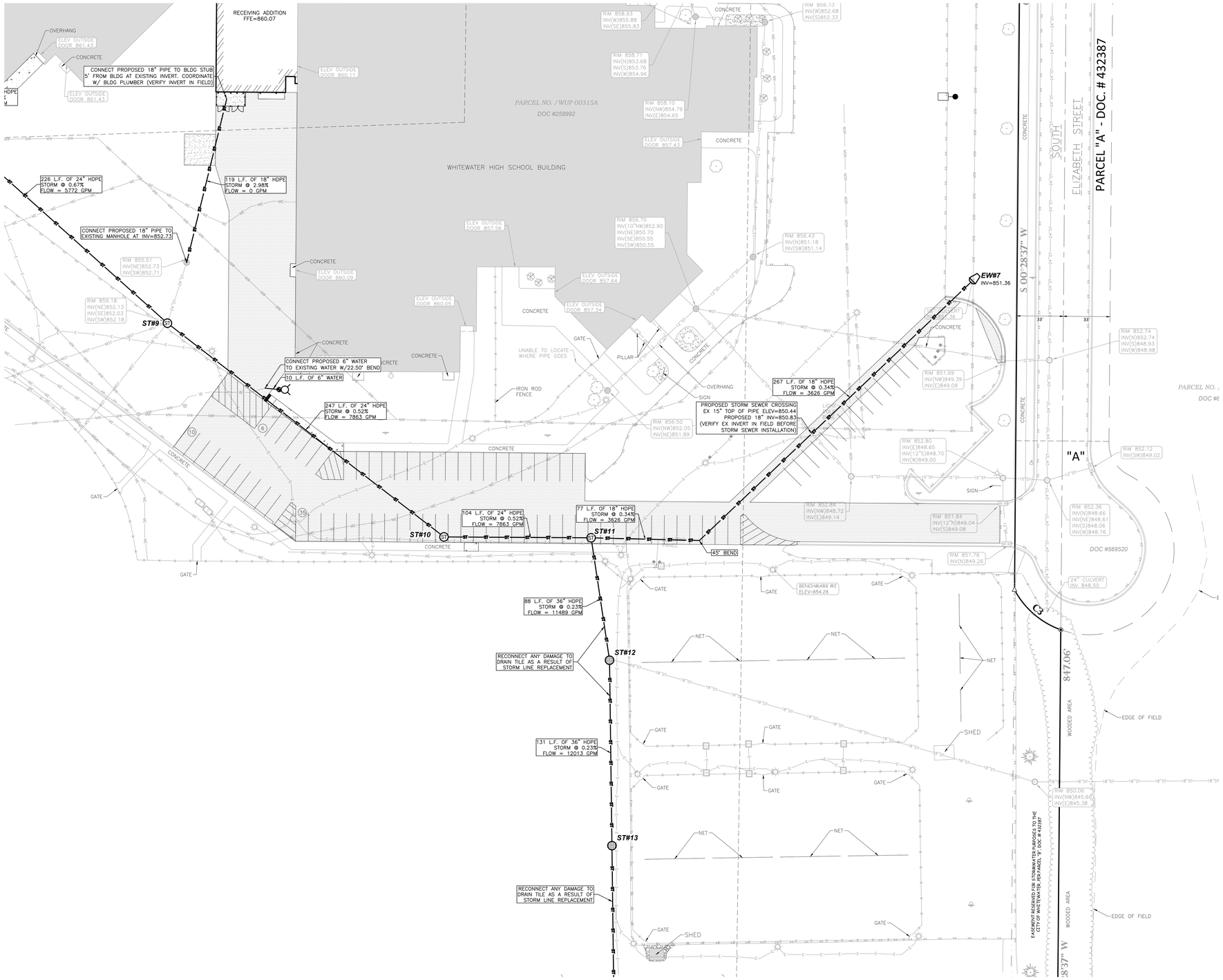

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PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 C6.1
PROPOSED ENDWALL STRUCTURE WITHOUT RIP RAP	10 C6.1
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CS#1	RIM = 853.01 INV (NW) = 848.25 INV (SE) = 847.85 DEPTH = 5.16' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1733 CASTING W/ SOLID LID
ST#1	RIM = 863.73 INV (E) = 860.73 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#2	RIM = 863.71 INV (W) = 859.89 INV (E) = 859.89 DEPTH = 3.82' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#3	RIM = 861.98 INV (NW) = 859.44 DEPTH = 2.54' 36" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#4	RIM = 861.03 INV (SE) = 858.20 INV (W) = 858.20 DEPTH = 2.83' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#5	RIM = 861.67 INV (E) = 857.41 INV (S) = 857.41 DEPTH = 4.26' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2554 CASTING W/ TYPE G GRATE
ST#6	RIM = 858.24 INV (N) = 855.24 INV (SE) = 855.24 DEPTH = 3.00' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#7	RIM = 856.72 INV (NW) = 853.64 INV (NE) = 855.09 INV (SE) = 853.64 DEPTH = 3.08' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#8	RIM = 859.37 INV (SW) = 855.87 DEPTH = 3.50' 36" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#9	RIM = 859.18 INV (NW) = 852.13 INV (SE) = 852.03 DEPTH = 7.15' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
ST#11	RIM = 853.58 INV (W) = 850.20 INV (E) = 850.20 INV (S) = 850.20 DEPTH = 6.99' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID
ST#12	RIM = 854.04 INV (N) = 850.00 INV (S) = 850.00 DEPTH = 4.05' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#13	RIM = 854.02 INV (N) = 849.69 INV (S) = 849.69 DEPTH = 4.33' 48" I.D. PRECAST MANHOLE W/ NEENAH R-2560-EA CASTING W/ BEEHIVE GRATE
ST#14	RIM = 857.43 INV (N) = 848.77 INV (SE) = 848.77 DEPTH = 8.66' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1555 CASTING W/ SOLID LID

UTILITY DISCLAIMER:

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BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

0' 30' 60'
1" = 30'

N

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999 (Ph) 715.344.9922 (Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB
Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
SOUTHEAST UTILITY PLAN

Sheet Number:
C5.4

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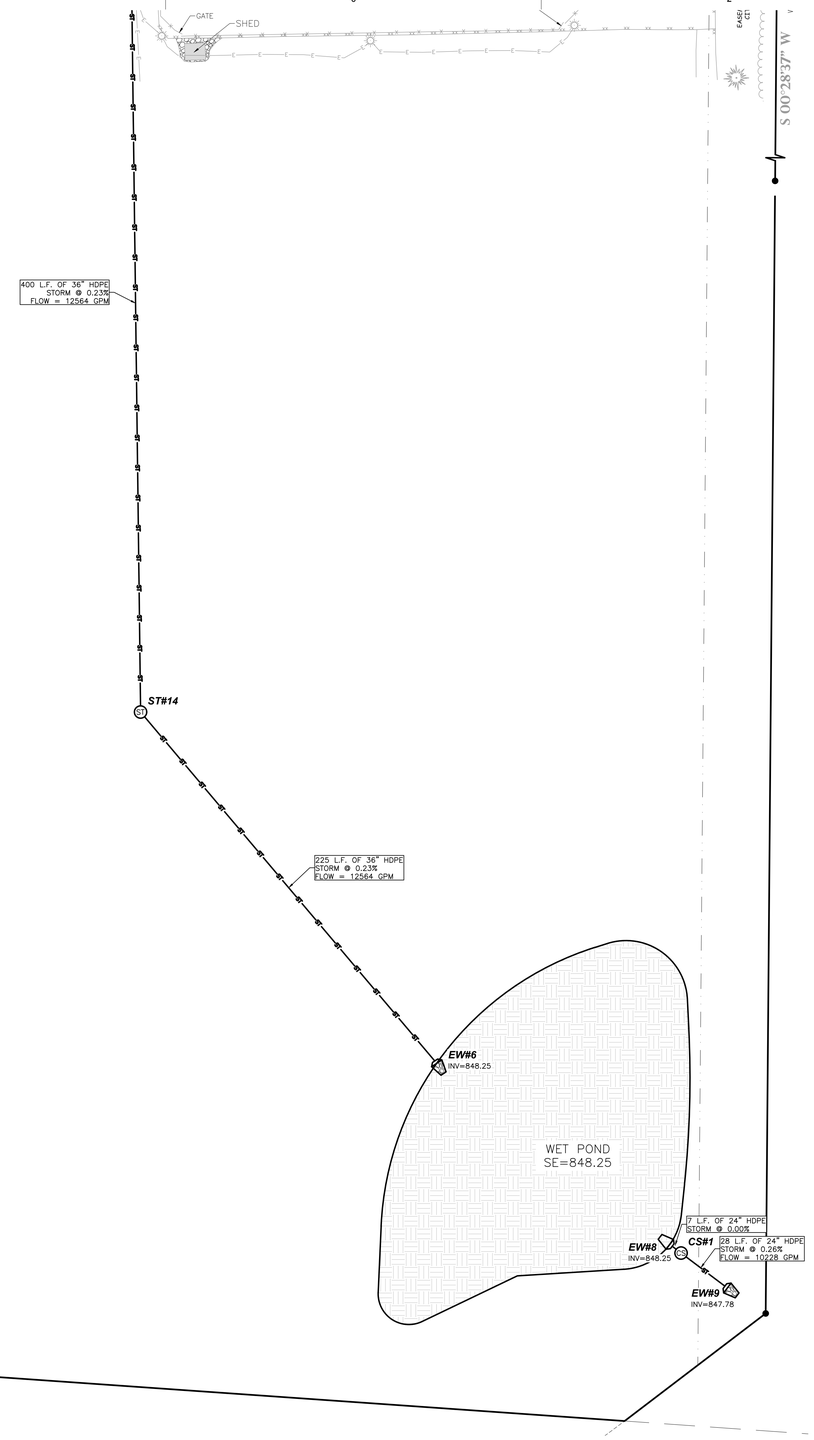

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
4. REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS TO VERIFY EXACT CONNECTION LOCATIONS AND SIZES OF PROPOSED STORM SEWER LATERALS.
5. COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
6. COORDINATE UTILITY SERVICE DISCONNECTIONS/OUTAGES WITH OWNER AND ANY IMPACTED NEIGHBORS. MINIMIZE DISRUPTIONS TO THE MAXIMUM EXTENT PRACTICAL.
7. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY.
8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
9. THE PROPOSED WATER MAIN SHALL HAVE A MINIMUM COVER OF 7'-6" TO THE TOP OF PIPE FROM PROPOSED FINISHED GRADE. SEE SHEETS C3.0-C3.5 FOR PROPOSED FINISHED GRADES.
10. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES, IF NEEDED.
11. FIELD VERIFY INVERT ELEVATION OF THE WATER MAIN, AT THE LOCATION OF THE SERVICE LATERAL CONNECTIONS, PRIOR TO CONNECTING THE LATERALS TO THE MAIN.
12. PROVIDE RIP RAP AT ALL STORM ENDWALLS TO PREVENT WASHOUT AND EROSION.
13. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH PROPOSED RIP RAP.

UTILITY LEGEND:

PROPOSED STORM SEWER	ST
PROPOSED WATER MAIN	W
PROPOSED ENDWALL STRUCTURE WITH RIP RAP	10 / C6.1
PROPOSED ENDWALL STRUCTURE WITHOUT RIP RAP	10 / C6.1
PROPOSED STORM SEWER MANHOLE	11 / C6.1
PROPOSED STORM SEWER INLET	11 / C6.1
PROPOSED STORM SEWER CONTROL STRUCTURE	1 / C5.5
PROPOSED HYDRANT ASSEMBLY	12 / C6.1
PROPOSED RIP RAP AREA	7 / C6.1
PROPOSED WET POND	1 / C6.1

STORM MANHOLE SCHEDULE:

STRUCTURE #	STRUCTURE DETAILS
CS#1	RIM = 853.01 INV (NW) = 848.25 INV (SE) = 847.85 DEPTH = 5.16' 48" I.D. PRECAST MANHOLE W/ NEENAH R-1733 CASTING W/ SOLID LID
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ELEVATION = 861.04

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NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

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SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

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ELEVATION = 872.73

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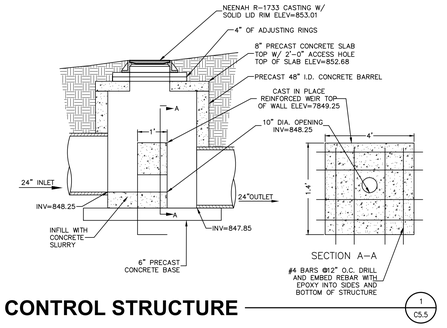
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND
WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT,
LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT,
LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT,
LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29



CONTROL STRUCTURE — 1 / C5.5

0' 30' 60'
1" = 30'

N

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(Ph) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

ENGINEERING DESIGN BY: POB Point of Beginning

Project Title:
ADDITION AND RENOVATION
WHITEWATER USD HIGH SCHOOL
534 S ELIZABETH STREET
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
SOUTH UTILITY PLAN

Sheet Number:
C5.5

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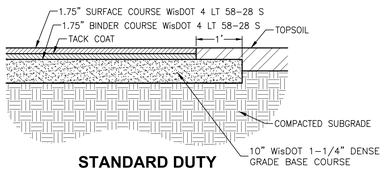
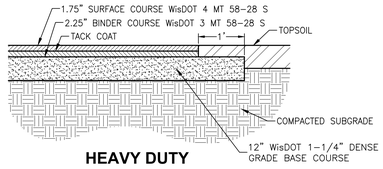
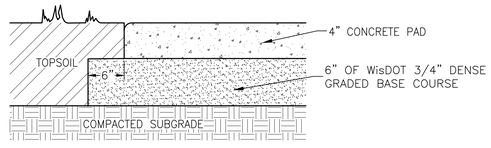


STANDARD DUTY

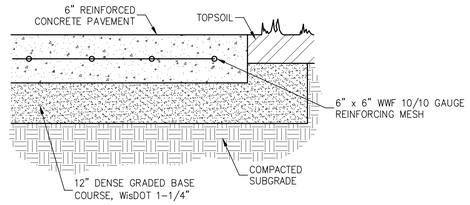


HEAVY DUTY

ASPHALT PAVEMENT — 1 C6.0

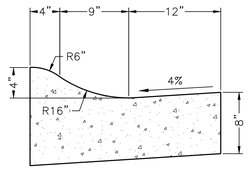


STANDARD CONCRETE

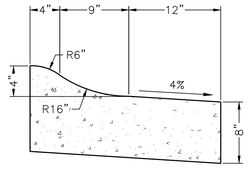


REINFORCED CONCRETE

CONCRETE PAVEMENT — 2 C6.0

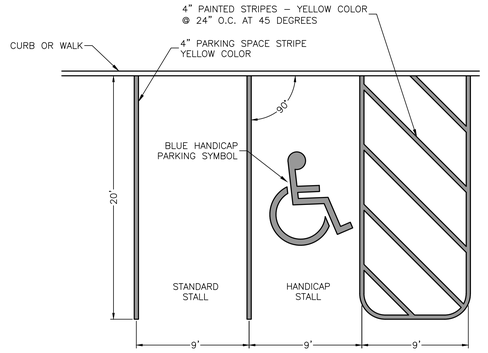


STANDARD



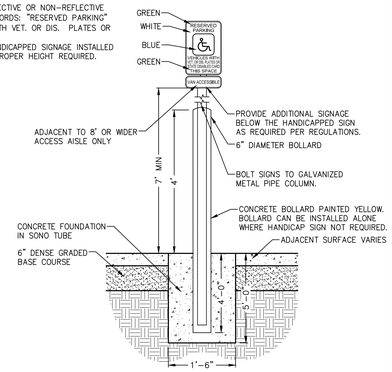
REJECT

18" COCRETE CURB & GUTTER — 3 C6.0

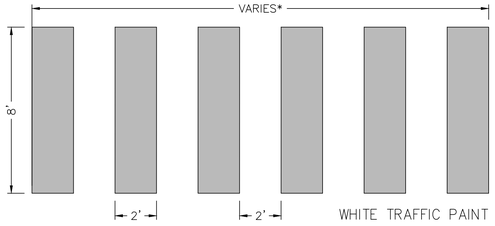


PARKING LOT STRIPING — 4 C6.0

NOTES:
1. THE SIGN MUST BE A WHITE RECTANGLE WITH LONGER DIMEN. VERT.; HAVING A GREEN MESSAGE AND A BLUE AND WHITE SYMBOL OF ACCESS.
2. THE SIGN MAY EITHER BE REFLECTIVE OR NON-REFLECTIVE.
3. THE SIGN MUST INCLUDE THE WORDS: "RESERVED PARKING" AND THE WORDS: "VEHICLES WITH VET. OR DIS. PLATES OR STATE DISABLED CARD"
4. STANDARD STATE APPROVED HANDICAPPED SIGNAGE INSTALLED ON A METAL COLUMN AT THE PROPER HEIGHT REQUIRED.

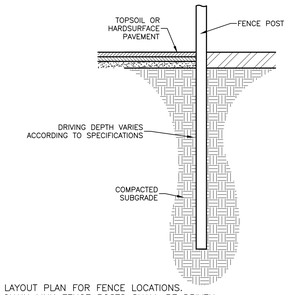


ACCESSIBLE PARKING SIGN — 5 C6.0



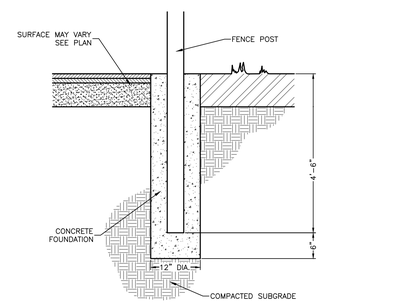
*CROSSWALK LENGTH VARIES BY LOCATION

CROSSWALK STRIPING — 6 C6.0



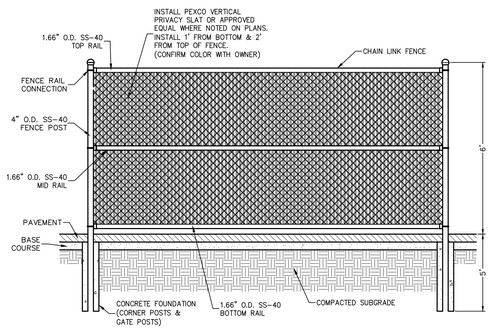
NOTES:
1. SEE LAYOUT PLAN FOR FENCE LOCATIONS.
2. ALL CHAIN LINK FENCE POSTS SHALL BE DRIVEN.
3. DRIVEN FENCE POSTS INSTALLED WITHIN CONCRETE SHALL BE:
   3.1. CORED, DRIVEN, AND SEALED WITH CONCRETE JOINT SEALANT; OR
   3.2. SET PRIOR TO POURING CONCRETE, WRAPPED WITH EXPANSION FOAM, AND SEALED WITH CONCRETE JOINT SEALANT (SILICONE JOINT SEALANT MEETING ASTM C-920 TYPE S CLASS 25)
   3.3. BEFORE DRIVING A FENCE POST IN A CONCRETE AREA, IF THE FENCE POST IS LOCATED WITHIN 2 FEET OF THE EDGE OF CONCRETE, SAWCUT A CONTROL JOINT FROM THE FENCE POST TO THE EDGE OF CONCRETE.
4. DRIVEN FENCE POSTS INSTALLED WITHIN ASPHALT PAVEMENT SHALL BE CORED, DRIVEN, AND SEALED WITH CONCRETE JOINT SEALANT.

DRIVEN LINE POST (TENNIS AREAS) — 7 C6.0

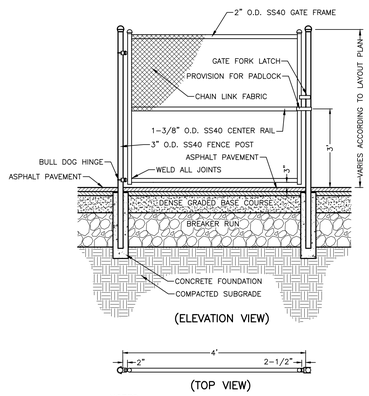


NOTES:
1. ALL GATES WITH A SWING OF 6' OR LARGER SHALL HAVE A CONCRETE FOUNDATION AS SHOWN ABOVE.
2. SEE LAYOUT PLAN FOR GATE LOCATIONS

GATE FENCE POST — 8 C6.0

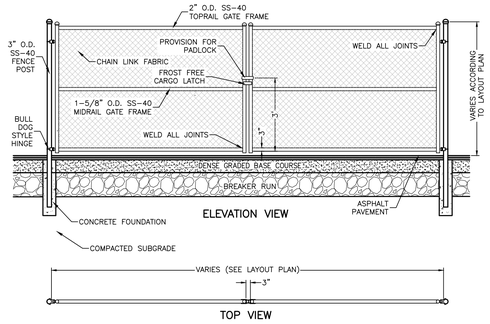


CHAIN LINK FENCE — 9 C6.0



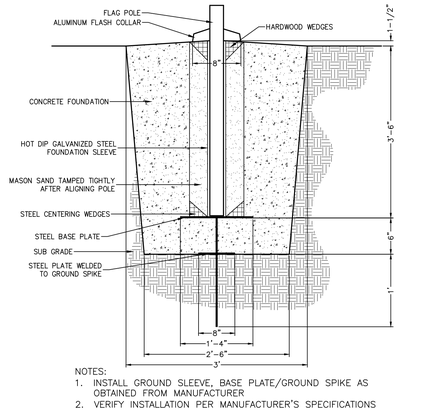
NOTES:
1. SEE LAYOUT PLAN FOR GATE LOCATIONS

PEDESTRIAN GATE — 10 C6.0



NOTES:
1. SEE LAYOUT PLAN FOR GATE LOCATIONS

SERVICE GATE — 11 C6.0



NOTES:
1. INSTALL GROUND SLEEVE, BASE PLATE/GROUND SPIKE AS OBTAINED FROM MANUFACTURER
2. VERIFY INSTALLATION PER MANUFACTURER'S SPECIFICATIONS

FLAG POLE FOUNDATION — 12 C6.0

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

Civil Engineering
Land Surveying
Landscape Architecture
4941 Kirschling Court
Stevens Point, WI 54481
715.344.9999(PH) 715.344.9922(Fx)
POB Project: 25.0087
Drawn: XXX Checked: JJL

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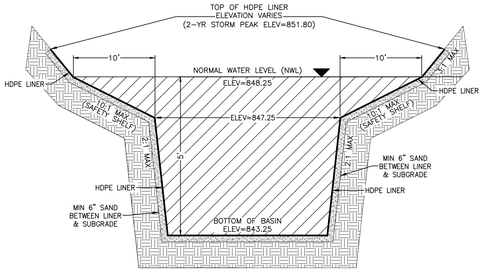
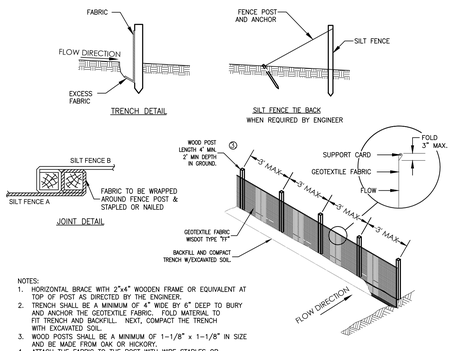


SECTION VIEW

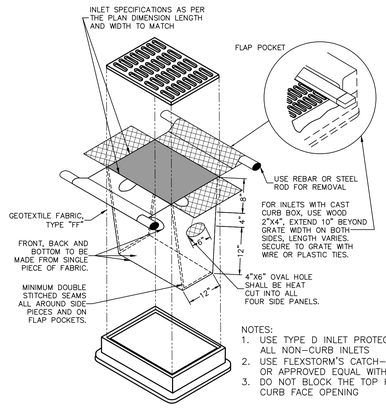
NOTES:
1. HDPE LINER SHALL MEET THE REQUIREMENTS IN APPENDIX D OF WDNR TECHNICAL STANDARD 1001.
2. THE CONTRACTOR SHALL EXCAVATE DOWN TO BEDROCK, REMOVE BEDROCK AS NEEDED TO INSTALL A MIN 6" OF SAND BETWEEN BEDROCK AND HDPE LINER.

WET POND — 1 C6.1



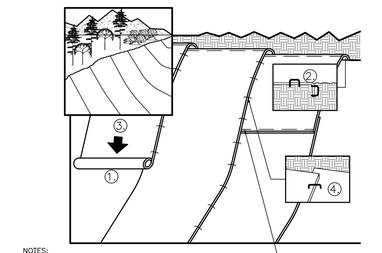
NOTES:
1. HORIZONTAL BRACE WITH 2"x4" WOODEN FRAME OR EQUIVALENT AT TOP OF POST AS DIRECTED BY THE ENGINEER.
2. TRENCH SHALL BE A MINIMUM OF 4" WIDE BY 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL. NEXT, COMPACT THE TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM OF 1-1/8" x 1-1/8" IN SIZE AND BE MADE FROM OAK OR HICKORY.
4. ATTACH THE FABRIC TO THE POST WITH WIRE STAPLES OR WOODEN LATH AND NAILS.
5. WOOD POSTS SHALL MAINTAIN A 3' MAXIMUM SPACING WHEN USING STANDARD GEOTEXTILE FABRIC. WHEN WOVEN GEOTEXTILE FABRIC IS USED, THE WOOD POSTS MAY BE SPACED UP TO 8' APART.

SILT FENCE — 2 C6.1



NOTES:
1. USE TYPE D INLET PROTECTION FOR ALL NON-CURB INLETS
2. USE FLEXSTORM'S CATCH-IT PRODUCT OR APPROVED EQUAL WITH RIGID FRAME.
3. DO NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING

INLET PROTECTION — 3 C6.1



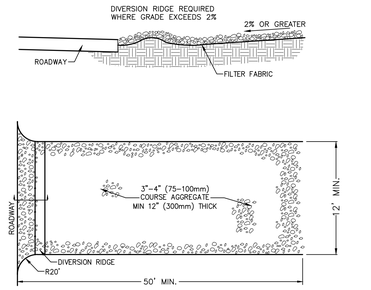
NOTES:
1. PREPARE SOIL BEFORE INSTALLING MAT, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA APPROXIMATELY 12" APART.
5. EROSION CONTROL MAT SHALL BE LISTED ON THE CURRENT WisDOT PRODUCT ACCEPTABILITY LIST (PAL) AS A CLASS I TYPE A EROSION MAT.

EROSION BLANKET - SLOPES — 4 C6.1



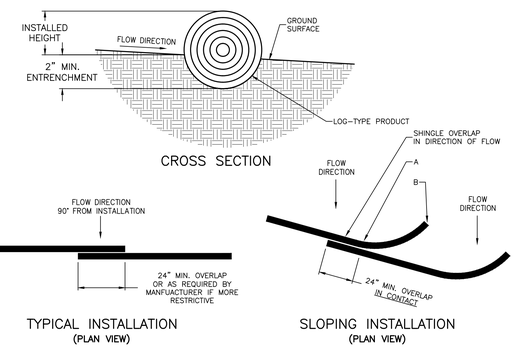
NOTES:
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. 3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS. 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP x 6" WIDE TRENCH BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED. 7. IN MEDIUM/HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4" APART OVER ENTIRE WIDTH OF CHANNEL. PLACE A SECOND ROW OF 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN AND COMPACT THE TRENCH AFTER STAPLING. 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP x 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
9. EROSION CONTROL MAY SHALL BE LISTED ON THE CURRENT WISCONSIN DEPARTMENT OF TRANSPORTATION PRODUCT ACCEPTABILITY LIST (PAL) AS A CLASS III TYPE A EROSION MAT.

EROSION BLANKET - CHANNEL — 5 C6.1



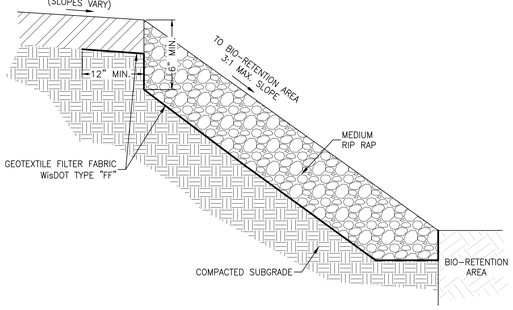
NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING. REPAIR AND/OR CLEANOUT ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.

ROCK CONTRUCTION ENTRANCE — 6 C6.1

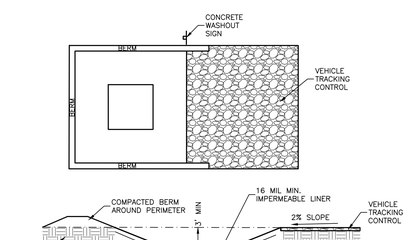


NOTES:
1. USE WDNR T.S. 1071 "INTERIM MANUFACTURED PERIMETER CONTROL AND SLOPE INTERRUPTION PRODUCTS."
2. INSTALLED HEIGHT IS MEASURED FROM THE UPSLOPE GROUND SURFACE TO THE TOP OF THE PRODUCT. DUE TO SETTLEMENT &/OR DEFORMATION, THE INSTALLED HEIGHT MAY NOT BE EQUIVALENT TO THE NOMINAL DIAMETER OF THE PRODUCT.
3. J-HOOKS SHALL BE INSTALLED SO THAT THE GROUND-PRODUCT INTERFACE ELEVATION AT LOCATION "B" IS HIGHER THAN THE TOP OF PRODUCT ELEVATION AT LOCATION A TO CREATE A WEIR AT POINT "A".
4. J-HOOKS SHALL BE INSTALLED EVERY 2 VERTICAL FEET OF DROP ALONG THE LENGTH OF THE INSTALLATION.
5. STAKE OVERLAP AS REQUIRED BY MANUFACTURER.
6. INSPECT DITCH CHECK FOR DEFICIENCIES PRIOR TO FORECASTED RAIN EVENTS, DAILY DURING EXTENDED RAIN EVENTS, AFTER RAIN EVENTS, AND AT 1-WEEK INTERVALS.
7. REMOVE SEDIMENT BEHIND DITCH CHECK BEFORE SEDIMENT LEVEL REACHES THE HALFWAY POINT BETWEEN THE GROUND SURFACE AND TOP OF THE DITCH CHECK.

TEMPORARY DITCH CHECK — 7 C6.1

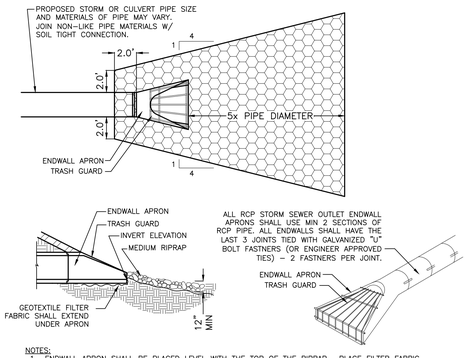


RIP RAP AREA — 8 C6.1



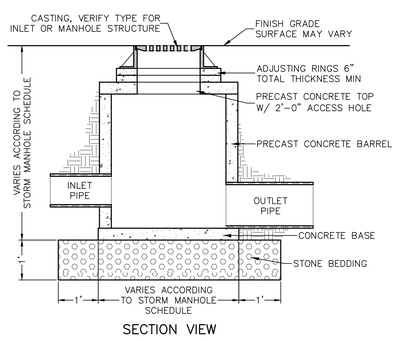
NOTES:
1. DO NOT LOCATE AN UNLINED CONCRETE WASHOUT AREA (CWA) WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000 OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE SHOULD BE USED.
2. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
3. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' WITH SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1. THE PIT SHALL BE AT LEAST 3' DEEP.
4. BERM SURROUNDING SIDES AND BACK OF CWA SHALL HAVE A MINIMUM HEIGHT OF 1'.
5. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS CWA PIT.
6. SIGNS SHALL BE PLACED AT THE CONSTUCTION ENTRACE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.

CONCRETE WASHOUT — 9 C6.1



NOTES:
1. ENDWALL APRON SHALL BE PLACED LEVEL WITH THE TOP OF THE RIPRAP. PLACE FILTER FABRIC BENEATH THE PROPOSED RIPRAP. RIPRAP SHALL BE PLACED ONLY AT DISCHARGE END PIPE. SEE UTILITY PLAN FOR LOCATION
2. ALL ENDWALLS SHALL HAVE A TRASH GUARD
3. ENDWALL MATERIAL SHALL MATCH PIPE MATERIAL UNLESS OTHERWISE NOTED
4. FOR PIPES ≤ 24", TOE-WALL LENGTH SHALL MATCH WIDTH OF ENDWALL SECTION.
5. FOR PIPES > 24", TOE-WALL LENGTH SHALL EQUAL 2(D) + ENDWALL SECTION WIDTH.

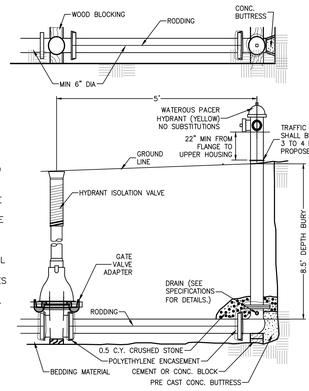
ENDWALL STRUCTURE — 10 C6.1



SECTION VIEW

NOTES:
1. DRAINTILE SHALL BE INSTALLED AROUND ALL NEW & EXISTING MANHOLES WITHIN PAVEMENT AREAS, UNLESS OTHERWISE NOTED ON PLANS.
2. MANHOLES STEPS SHALL BE INSTALLED IN ALL STORM STRUCTURES EXCEEDING A TOTAL HEIGHT OF 5.0'.

STORM MANHOLE — 11 C6.1



NOTES:
A. GENERAL:
1. COMPLY WITH AWWA C502
2. HYDRANT COLOR SELECTED BY OWNER.
3. MATCH THE HYDRANTS GENERALLY INSTALLED IN THE OWNER'S WATER SYSTEM.
4. ACCEPTABLE MANUFACTURERS:
   a. WATEROUS PACER, NO SUBSTITUTIONS

B. MATERIALS:
1. PROVIDE COMPRESSION TYPE WITH A 5-1/4" MINIMUM SIZE MAIN VALVE ASSEMBLY, O-RING SEALS, TWO 2-1/2" HOSE NOZZLES, AND A 4-1/4" PUMPER NOZZLE WITH NATIONAL STANDARD THREADS, A NATIONAL STANDARD OPERATING NUT, AND AN ABOVE GROUND BREAK FLANGE.
2. PROVIDE A 6" AUXILIARY RESILIENT SEAT TYPE GATE VALVE WITH RESTRAINED TYPE JOINTING OR BITUMINOUS COATED METAL TIE RODS BETWEEN THE VALVES AND THE TEE FITTINGS.
3. PROVIDE VALVE BOXES WITH COVER MARKED WITH THE WORD "WATER".
   a. BITUMINOUS COATED CARBON STEEL VALVE EXTENSION STEMS AND 2" SQUARE OPERATING NUTS 2 INCHES BELOW COVER.
4. PROVIDE VALVE BOX STABILIZERS ON ALL HYDRANT AUXILIARY VALVES.
   a. ACCEPTABLE MANUFACTURER:
      i. ALBERICO
      ii. AMERICAN
      iii. ADAPTOR, INC.
      iv. OR EQUAL
5. HYDRANT MARKER:
   i. PROVIDE RODON HYDRA FINDER FLAGS FOR ALL HYDRANTS.

HYDRANT ASSEMBLY — 12 C6.1

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com
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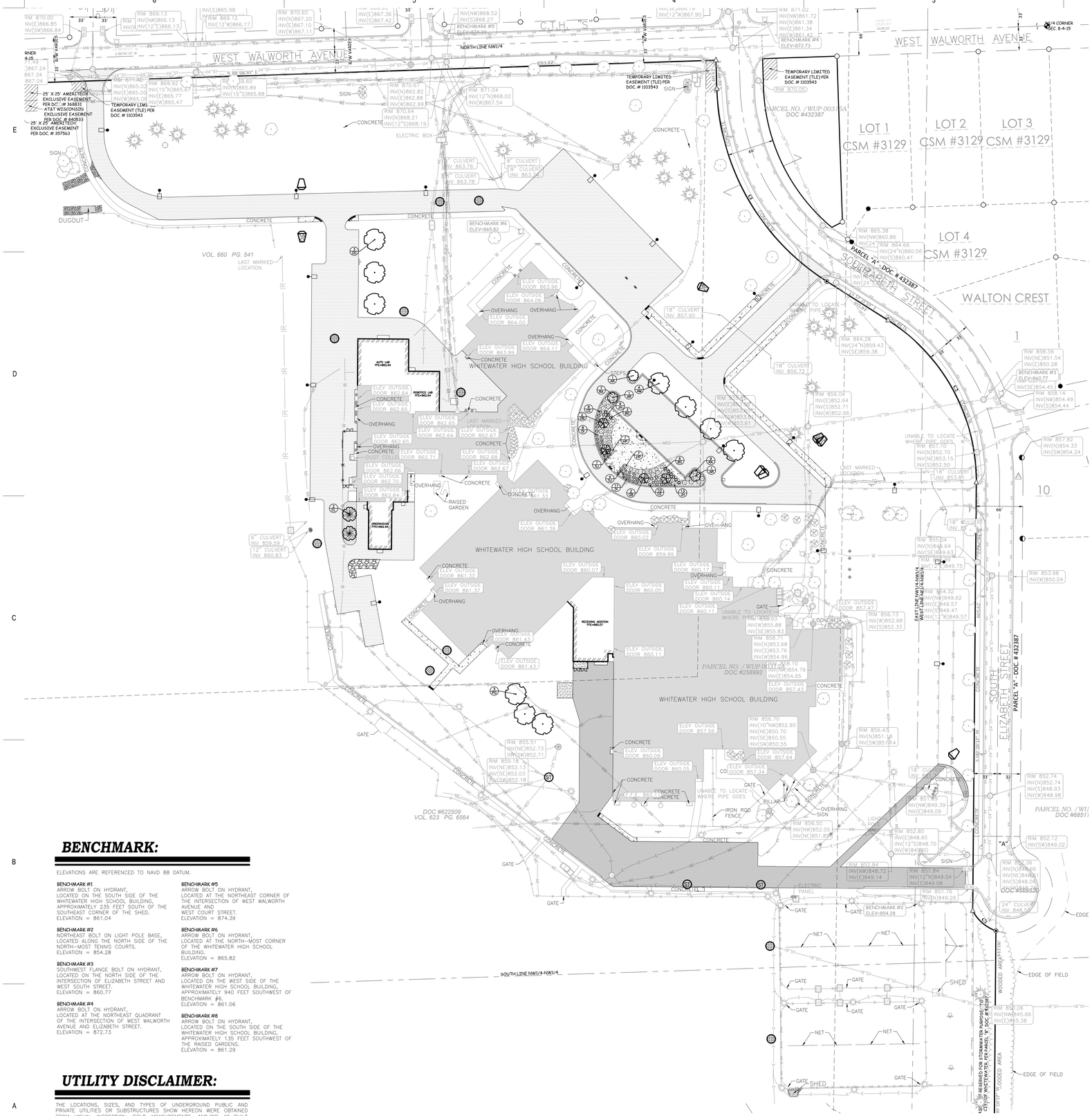

GENERAL NOTES:

1. CONTACT DIGGER'S HOTLINE 5 WORKING DAYS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
2. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LANDSCAPE AREAS. LANDSCAPE CONTRACTOR SHALL VERIFY THAT SPECIFIED PLANTING SOIL DEPTH IS PRESENT PRIOR TO PLANTING.
3. SEED/FERTILIZE/CRIMP HAY MULCH ALL GENERAL LANDSCAPE AREAS DISTURBED DURING CONSTRUCTION, EXCEPT AREAS NOTED ON THIS DOCUMENT TO BE SODDED.
4. ALL PLANT MATERIALS LISTED SHALL MEET THE STANDARDS OF THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION FOR THE SIZES GIVEN.
5. ALL TREES SHALL BE STAKED WITH A MINIMUM OF THREE STAKES.
6. ALL TREES IN THE TURF AREA SHALL HAVE A 5' DIAMETER CIRCLE OF 4" DEPTH SHREDDED HARDWOOD BARK MULCH.
7. EDG-KING LANDSCAPE EDGING OR EQUAL SHALL BE PLACED AROUND ALL LANDSCAPE BEDS.
8. 3" OF SHREDDED BARK MULCH SHALL BE PLACED IN ALL PLANTING BEDS.
9. FILTER FABRIC SHALL BE PLACED BENEATH ALL LANDSCAPE BARK MULCH.
10. COORDINATE ALL LANDSCAPE WORK WITH GAS, ELECTRIC, (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE) CABLE AND TELEPHONE CONSTRUCTION AND RESPECTIVE TRADES FOR THE INSTALLATION OF SAID UTILITIES.

LEGEND:

LANDSCAPE WOOD MULCH (SEE GENERAL NOTE 8)

PLANTING SCHEDULE:

TREES SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
AM	ACER MIYABEI 'MORTON'	STATE STREET MAPLE	2" CAL.	45'TX35'W	4
AR	ACER RUBRUM 'JFS-KW78'	ARMSTRONG GOLD MAPLE	1.5" CAL.	35'TX12'W	3
CL	CELTIS 'JFS-KSU1'	PRAIRIE SENTINEL HACKBERRY	1.5" CAL.	40'TX12'W	2
GB	GINKGO BILOBA 'PRINCETON SENTRY'	PRINCETON SENTRY COLUMNAR GINKGO	1.5" CAL.	25'TX12'W	4
GD	GYMNOCLADUS DIOICUS 'ESPRESSO'	ESPRESSO KENTUCKY COFFEE	2" CAL.	50'TX35'W	3
PG	PICEA GLAUCA VAR. DESATA	BLACK HILLS SPRUCE	5'T	40'TX20'W	3

SHRUBS SYMBOLS	BOTANICAL NAME	COMMON NAME	INSTALLATION SIZE	SIZE AT MATURITY	QUANTITY
BG	BUXUS X 'GLENCOE'	CHICAGOLAND GREEN BOXWOOD	5 GAL	3'TX3'W	9
CE	CEANOTHUS AMERICANUS	NEW JERSEY TEA	5 GAL.	3'TX3'W	18
DI	DIERVILLA IONICERA	DWARF BUSH HONEYSUCKLE	5 GAL.	3'TX3'W	19
HP	HYDRANGEA PANICULATA 'SMHPLQF'	LITTLE QUICK FIRE HYDRANGEA	5 GAL	5'TX5'W	14
JH	JUNIPERUS HORIZONTALIS	CREEPING JUNIPER	3 GAL	1'TX8'W	22
RA	RHUS AROMATICA 'GRO-LOW'	GRO-LOW SUMAC	5 GAL.	2'TX6'W	16
SJ	SPIRAEA JAPONICA 'SMNSJMFR'	DOUBLE PLAY RED SPIREA	5 GAL	3'TX3'W	11

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 235 FEET SOUTH OF THE SOUTHEAST CORNER OF THE SHED.
ELEVATION = 861.04

BENCHMARK #2
NORTHEAST BOLT ON LIGHT POLE BASE, LOCATED ALONG THE NORTH SIDE OF THE NORTH-MOST TENNIS COURTS.
ELEVATION = 854.28

BENCHMARK #3
SOUTHWEST FLANGE BOLT ON HYDRANT, LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF ELIZABETH STREET AND WEST SOUTH STREET.
ELEVATION = 860.77

BENCHMARK #4
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF WEST WALWORTH AVENUE AND ELIZABETH STREET.
ELEVATION = 872.73

BENCHMARK #5
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF WEST WALWORTH AVENUE AND WEST COURT STREET.
ELEVATION = 874.39

BENCHMARK #6
ARROW BOLT ON HYDRANT, LOCATED AT THE NORTH-MOST CORNER OF THE WHITEWATER HIGH SCHOOL BUILDING.
ELEVATION = 865.82

BENCHMARK #7
ARROW BOLT ON HYDRANT, LOCATED ON THE WEST SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 940 FEET SOUTHWEST OF BENCHMARK #6.
ELEVATION = 861.06

BENCHMARK #8
ARROW BOLT ON HYDRANT, LOCATED ON THE SOUTH SIDE OF THE WHITEWATER HIGH SCHOOL BUILDING, APPROXIMATELY 135 FEET SOUTHWEST OF THE RAISED GARDENS.
ELEVATION = 861.29

UTILITY DISCLAIMER:

THE LOCATIONS, SIZES, AND TYPES OF UNDERGROUND PUBLIC AND PRIVATE UTILITIES OR SUBSTRUCTURES SHOW HEREON WERE OBTAINED FROM VISUAL INSPECTION, FIELD MEASUREMENTS, AND/OR AS-BUILT PLANS. SANITARY SEWER AND STORM SEWER PIPE SIZES, INVERTS, DIRECTION, AND LOCATIONS BETWEEN MANHOLES ARE SUPPLEMENTED BY AS-BUILT PLANS AND/OR ESTIMATED BASED ON FIELD OBSERVATIONS. PRIOR TO CONSTRUCTION IN THE VICINITY OF ANY UTILITIES SHOWN HEREON, IT IS RECOMMENDED THAT THE LOCATIONS, DEPTHS, AND SIZES BE FIELD VERIFIED. THE LOCATIONS SHOWN HEREON ARE ONLY APPROXIMATE, WITH POSSIBILITY THAT ADDITIONAL UTILITY LINES NOT DISCOVERED, OR MARKED, DURING THE SEARCH OF RECORDS AND THE FIELD SURVEY MAY EXIST. ANY CONTRACTOR USING THE INFORMATION SHOWN HEREON IS HEREBY FOREWARNED THAT ANY EXCAVATION UPON THIS SITE MAY RESULT IN THE DISCOVERY OF ADDITIONAL UNDERGROUND UTILITIES NOT SHOWN HEREON. IN GENERAL, UNDERGROUND UTILITY LOCATIONS ARE SHOWN FROM UTILITY MARKINGS, BY OTHERS, AND/OR AS-BUILT PLANS, PROVIDED BY OTHERS. POINT OF BEGINNING MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO THE EXISTING UTILITIES SHOWN HEREON, AND BELIEVES THAT THE INFORMATION CONTAINED HEREIN IS RELIABLE AND GENERALLY ACCURATE FOR THE PURPOSE INTENDED.

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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Civil Engineering
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GENERAL

1. ALL MATERIALS, CONSTRUCTION, PLANS AND DETAILS SHALL CONFORM WITH THE APPLICABLE CODES AND STANDARDS AS SHOWN IN THESE DRAWINGS AS WELL AS THE PROJECT SPECIFICATIONS, FIRE UNDERWRITER RULES AND REGULATIONS AND ASTM STANDARDS RELATED TO EACH ELEMENT.
2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL BE FAMILIAR WITH THE ENTIRE SET OF CONSTRUCTION DOCUMENTS (NOT LIMITED TO CIVIL, ARCHITECTURAL, PLUMBING, ELECTRICAL, STRUCTURAL, AND MECHANICAL, ETC.) IN ORDER TO PROVIDE ALL CONSTRUCTION AND MATERIALS FOR THE PROJECT.
3. THE CONTRACTOR SHALL REFER TO ALL DRAWINGS OF THE CONSTRUCTION DOCUMENTS FOR ADDITIONAL SPECIFIED ITEMS SUCH AS MEMBERS, ELEVATIONS, BRICK LEDGES, DIMENSIONS, SLEEVES, PENETRATIONS, DEPRESSIONS, ETC. NOT SHOWN ON THE STRUCTURAL DRAWINGS THAT MAY BE REQUIRED FOR COMPLETION OF THE PROJECT.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
5. DETAILS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING UNLESS NOTED OTHERWISE.
6. DRAWINGS REPRESENT THE FINISHED STRUCTURAL SYSTEM AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, LAGGING, SHORING, BRACING, FORM WORK, ETC. AS REQUIRED FOR THE PROTECTION AND SAFETY OF LIFE AND PROPERTY DURING CONSTRUCTION. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER WILL NOT INVOLVE REVIEW OF THESE ITEMS.
7. ALL INSPECTIONS REQUIRED BY THE BUILDING CODES, JURISDICTION OR THESE PLANS SHALL BE PROVIDED BY AN INDEPENDENT INSPECTION AGENCY OR THE BUILDING DEPARTMENT. SITE VISITS BY THE ARCHITECT OR STRUCTURAL ENGINEER DO NOT CONSTITUTE AN INSPECTION.
8. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FULL COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING THE HEALTH AND SAFETY OF WORKERS AND THE PUBLIC IN AND AROUND THE CONSTRUCTION SITE.
9. CONSTRUCTION MATERIALS SHALL BE UNIFORMLY LAID OUT SUCH THAT NOTED STRUCTURAL DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED.
10. PLANS ARE NOT TO BE SCALED.
11. NOTES ON SPECIFIC PLANS AND DETAILS AS SHOWN ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
12. IN NO CASE SHALL STRUCTURAL ALTERATIONS, MODIFICATIONS OR WORK AFFECTING STRUCTURAL MEMBERS BE MADE WITHOUT WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
13. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS RELATED TO ELEVATOR/ESCALATOR/EQUIPMENT PITS AND SHAFTS WITH SELECTED MANUFACTURER.
14. CONTRACTOR SHALL CONFIRM ELEVATOR/ESCALATOR/EQUIPMENT SUPPORT BEAM/GUIDE RAIL ELEVATIONS AND LOCATIONS WITH THE APPROVED ELEVATOR/ESCALATOR/EQUIPMENT SHOP DRAWINGS.
15. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE RATING REQUIREMENTS.
16. UNLESS NOTED OTHERWISE, CENTERLINE OF FRAMING ELEMENTS COINCIDE WITH COLUMN CENTERLINES. FRAMING BETWEEN MEMBERS SHALL BE EQUALLY SPACED UNLESS NOTED OTHERWISE.
17. IF ANY ERRORS OR OMISSIONS APPEAR IN THESE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER IN WRITING PRIOR TO PROCEEDING WITH WORK.
18. NO PROVISIONS HAVE BEEN MADE FOR FUTURE EXPANSION.

EXISTING CONSTRUCTION

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL ELEMENTS, DIMENSIONS AND ELEVATIONS RELATED TO EXISTING CONDITIONS AND NEW CONSTRUCTION PRIOR TO CONSTRUCTION AND PROCUREMENT OF MATERIAL. CONTRACTOR TO NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ANY DISCREPANCIES. EXISTING CONDITIONS SHOWN REPRESENT THE BEST AVAILABLE INFORMATION. NO WARRANTY IS MADE TO THE ACCURACY OF THE INFORMATION PRESENTED.
2. REMOVE, REPLACE, AND MODIFY ALL EXISTING MATERIAL (ARCHITECTURAL, ELECTRICAL, MECHANICAL, STRUCTURAL, ETC.) AS REQUIRED TO PLACE NEW STRUCTURAL WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
3. ANY EXISTING CONDITIONS THAT ARE UNCOVERED DURING THE COURSE OF THE PROJECT THAT THE CONTRACTOR DEEMS UNSAFE SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF SHORING, BRACING, ETC. REQUIRED TO SAFELY CONSTRUCT THE PROJECT.

FOUNDATIONS

1. ALL ACTIVITIES CONCERNING PREPARATION AND VERIFICATION OF THE BEARING STRATUM FOR SLAB-ON-GRADES AND FOUNDATIONS SHALL BE SUPERVISED AND APPROVED BY A QUALIFIED GEOTECHNICAL ENGINEER.
2. ALL EXTERIOR FOUNDATIONS SHALL BEAR BELOW THE LOCAL FROST LINE. FOUNDATIONS ARE NOT TO BE PLACED ON FROZEN SUBGRADE.
3. WALLS, GRADE BEAMS AND SIMILAR ELEMENTS SHALL BE BACKFILLED UNIFORMLY ON BOTH SIDES OF ELEMENTS. BELOW-GRADE WALLS SHALL BE ADEQUATELY BRACED UNTIL FINAL FLOOR STRUCTURE, INCLUDING SLAB-ON-GRADE IS IN PLACE. BRACING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. DO NOT BACKFILL AGAINST ANY ELEMENT UNTIL THE DESIGN STRENGTH OF THE ELEMENT HAS BEEN ACHIEVED.
4. SUBGRADE PREPARATION SHALL CONSIST OF EXCAVATION TO REQUIRED FOOTING DEPTH. FOUNDATIONS SHALL EXTEND TO COMPETENT BEARING MATERIAL CONFORMING TO THE NET ALLOWABLE SOIL BEARING CAPACITY NOTED. WHERE UNSUITABLE SOIL IS ENCOUNTERED, REFER TO THE REFERENCED GEOTECHNICAL REPORT OR CONTACT THE STRUCTURAL ENGINEER FOR FURTHER DIRECTION.
5. AT A MINIMUM, ALL FILL BELOW FOOTINGS SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY (ASTM D-1557, MODIFIED PROCTOR) AND PLACED IN UNIFORM LIFTS. REFER TO THE GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION OR STRICTER REQUIREMENTS.
6. ALL BACKFILL WITHIN A MINIMUM OF 36" OF BASEMENT AND RETAINING WALLS SHALL BE FREE DRAINING, GRANULAR MATERIAL AND COMPACTED TO 90% STANDARD PROCTOR. MATERIALS MUST BE APPROVED BY GEOTECHNICAL ENGINEER. CONSULT GEOTECHNICAL REPORT FOR ADDITIONAL RECOMMENDATIONS.
7. REMOVE ANY EXISTING CONSTRUCTION TO A MINIMUM OF 24" BELOW BOTTOM OF NEW FOUNDATION.
8. ALL PIERS AND COLUMNS ARE CENTERED ON COLUMN CENTERLINES UNLESS NOTED OTHERWISE.
9. CONTRACTOR IS TO KEEP EXCAVATIONS DRY AT ALL TIMES DURING THE FOUNDATION CONSTRUCTION. ALL FOUNDATION CONCRETE SHALL BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATIONS ARE OPENED. NO FOUNDATION SHALL BE PLACED IN STANDING WATER. CONTRACTOR SHALL PROVIDE MEANS FOR DEWATERING EXCAVATIONS AS REQUIRED TO ACHIEVE DRY EXCAVATIONS.
10. REFER TO PROJECT GEOTECHNICAL REPORT FOR GENERAL SOIL CONDITIONS AND SPECIFIC PROJECT REQUIREMENTS. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT ARCHITECT IF SOIL CONDITIONS VARY FROM THOSE INDICATED IN THE GEOTECHNICAL REPORT.
11. FREE DRAINING GRANULAR FILL BELOW SLAB-ON-GRADE SHALL MEET WisDOT SPECIFICATION 310.2.2.1 FOR OPEN-GRADED BASE.

CAST-IN-PLACE CONCRETE

1. CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE."
2. CONCRETE SLAB CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 302 "GUIDE TO CONCRETE FLOOR AND SLAB CONSTRUCTION."
3. CONCRETE MIXING, TRANSPORTING AND PLACEMENT SHALL CONFORM TO ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE."
4. CONCRETE PLACED DURING HOT OR COLD WEATHER SHALL CONFORM TO ACI 305 "GUIDE TO HOT WEATHER CONCRETING" AND ACI 306 "GUIDE TO COLD WEATHER CONCRETING."
5. CONCRETE SHALL BE MECHANICALLY CONSOLIDATED IN ACCORDANCE WITH ACI 309 "GUIDE FOR CONSOLIDATION OF CONCRETE." SLAB-ON-GRADE NEED ONLY BE VIBRATED AROUND EMBEDDED ITEMS, THICKENED SLABS, TRENCHES, FLOOR DRAINS, ETC.
6. CONCRETE CURING SHALL CONFORM TO ACI 308 "GUIDE TO EXTERNAL CURING OF CONCRETE" OR ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," WHICHEVER IS APPLICABLE UNLESS ALTERNATE METHODS ARE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER. WHERE CURING COMPOUNDS ARE APPROVED, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING COMPATIBILITY WITH FLOORING PRIOR TO CURING COMPOUND APPLICATION.
7. MAXIMUM UNCONFINED CONCRETE FREE FALL SHALL BE LIMITED TO 5'-0".
8. WATER SHALL BE CLEAN AND POTABLE AND SHALL CONFORM TO ASTM C94. NO WATER SHALL BE ADDED AT THE JOBSITE UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER.
9. CONCRETE MIXING OPERATION SHALL CONFORM TO ASTM C94.
10. CLEAR COVER REQUIREMENTS FOR CONCRETE REINFORCEMENT SHALL CONFORM TO THE FOLLOWING UNLESS SPECIFICALLY NOTED OTHERWISE:
    A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER
       a. #5 AND SMALLER: 1-1/2"
       b. #6 THROUGH #18: 2
    C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
       a. SLABS, WALLS, JOISTS: #11 AND SMALLER: 3/4"
       b. BEAMS, COLUMNS: PRIMARY, TIES, STIRRUPS OR SPIRALS: 1-1/2"
11. UNLESS OTHERWISE DETAILED, PROVIDE (2) #5 BARS AROUND ALL OPENINGS AND (2) #5 DIAGONAL BARS AT ALL OPENINGS AND RE-ENTRANT CORNERS. BARS SHALL EXTEND A MINIMUM OF 30" PAST OPENING.
12. EXISTING SURFACES THAT ARE TO RECEIVE NEW CONCRETE SHALL BE INTENTIONALLY ROUGHENED TO AN AMPLITUDE OF 1/4" UNLESS NOTED OTHERWISE.
13. BASE PLATE GROUT SHALL BE NON-SHRINK, NON-METALLIC WITH A MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI. THICKNESS SHALL BE AS DETAILED.
14. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER UNLESS SPECIFICALLY DETAILED OTHERWISE. TOP SURFACES OF WALLS EXPOSED TO VIEW SHALL BE FINISHED SMOOTH UNLESS NOTED OTHERWISE.
15. ALL REINFORCING BARS, ANCHOR BOLTS, WIRE MESH, DOWELS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN FINAL POSITION PRIOR TO PLACING CONCRETE.
16. PROVIDE SLEEVES FOR PLUMBING, ELECTRICAL AND MECHANICAL PENETRATIONS. PENETRATIONS THROUGH BEAMS AND COLUMNS ARE ONLY PERMITTED WHERE SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INDICATING LOCATION OF ALL PENETRATIONS AND EMBEDDED CONDUIT THROUGH OR IN CONCRETE. CONCRETE IS NOT TO BE CUT OR CORED WITHOUT PRIOR APPROVAL OF STRUCTURAL ENGINEER. COORDINATION OF OTHER TRADES RELATED TO THE CONCRETE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
17. CONDUIT, PIPES OR SIMILAR ITEMS RUNNING THROUGH OR IN CONCRETE SHALL BE PLACED SO THEY ARE NOT CLOSER THAN 3 DIAMETERS ON CENTER. CONCRETE COVER IS NOT LESS THAN 1" AND NO REINFORCING STEEL IS DISPLACED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
18. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.
19. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF IRREGULARITIES OR DEFECTS IN CONCRETE WORK PRIOR TO PLACEMENT OF FINISH MATERIALS.
20. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS AND TEST DATA COMPLIANT WITH REFERENCED ACI STANDARDS AND THE LOCAL BUILDING CODE. MIX DESIGNS SHALL INCLUDE THE PROJECT NAME AND INDICATE WHERE EACH MIX IS TO BE USED IN THE STRUCTURE.
21. CONTRACTOR SHALL HIRE A MATERIALS TESTING LABORATORY TO CAST AND TEST CYLINDERS. SAMPLING, PREPARATION AND TESTING SHALL CONFORM TO ASTM C172, ASTM C31 AND ASTM C39. TEST RESULTS MUST BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER. ACCEPTANCE CRITERIA WILL BE BASED ON ACI 318. TEST RESULTS SHALL PROVIDE THE FOLLOWING INFORMATION AT A MINIMUM:
    1. LOCATION IN PROJECT WHERE SAMPLE WAS TAKEN WITH MIX DESIGNATION.
    2. COMPRESSIVE STRENGTH AT 7 DAYS.
    3. COMPRESSIVE STRENGTH AT 28 DAYS.
    4. AIR CONTENT.
    5. SLUMP.
    6. WATER ADDED AT JOB SITE.
22. SHOP DRAWINGS FOR REINFORCEMENT DETAILING, FABRICATING, BENDING AND PLACING OF CONCRETE REINFORCEMENT SHALL CONFORM TO ACI 318 AND CRSI MANUAL OF STANDARD PRACTICE. BAR SCHEDULES, STIRRUP SPACING, BENT BAR DIAGRAMS, AND ARRANGEMENT OF REINFORCEMENT SHALL BE SHOWN.
23. CONCRETE REINFORCING BARS SHALL CONFORM TO ASTM A615 (GRADE 60).
24. ALL SPLICES IN CONCRETE REINFORCEMENT SHALL BE CLASS B LAP SPLICES UNLESS NOTED OTHERWISE. ADJACENT SPLICES SHALL BE STAGGERED A MINIMUM OF 3'-0" UNLESS DETAILED OTHERWISE. REFER TO LAP SPLICE AND DEVELOPMENT LENGTH SCHEDULE.
25. PROVIDE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS.
26. SLAB-ON-GRADE CONTROL JOINTS SHALL BE PLACED AS INDICATED ON STRUCTURAL DRAWINGS. SAW CUTTING SHALL BE PERFORMED AS SOON AS CUT WILL NOT RAVEL THE JOINT.
27. 1/2" EXPANSION JOINT MATERIAL SHALL BE PLACED WHERE SLABS ABUT ALL VERTICAL SURFACES.
28. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064. WELDED WIRE FABRIC SHALL BE LAPPED ONE WIRE SPACE PLUS 2" FOR PLAIN WIRE AND 8" FOR DEFORMED WIRE.
29. SMOOTH FACED FORMS SHALL BE USED FOR ALL CONCRETE EXPOSED TO VIEW.

MASONRY

1. CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO ACI 530 "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES."
2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C 90 AND SHALL BE NORMAL WEIGHT UNITS UNLESS SPECIFICALLY NOTED. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS SHALL BE AS INDICATED IN DESIGN INFORMATION.
3. COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.
4. MORTAR SHALL BE TYPE M OR S (RECOMMENDED BELOW GRADE) AND SHALL COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
5. GROUT SHALL COMPLY WITH ASTM C476 PROPERTIES SPECIFICATION, OR SHALL BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI. AGGREGATE SHALL BE 3/8" MAXIMUM SIZE.
6. REINFORCEMENT SHALL COMPLY WITH ASTM A615 (GRADE 60). REINFORCING BARS SHOWN AS BENT OR HOOKED SHALL BE SHOP FABRICATED.
7. REINFORCEMENT SHALL BE SECURELY PLACED IN ACCORDANCE WITH ACI 530.
8. REINFORCED CELLS SHALL BE SOLIDLY FILLED WITH GROUT WITH REINFORCING PLACED PRIOR TO GROUTING. GROUT SHALL BE A WORKABLE MIXTURE, THOROUGHLY MIXED AND SUITABLE FOR PUMPING WITHOUT SEGREGATION. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION AND RECONSOLIDATED IN ACCORDANCE WITH ACI 530.
9. ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS SHALL BE GROUTED SOLID. GROUT PROCEDURE SHALL COMPLY WITH ACI 530.
10. LAP CONTINUOUS REINFORCEMENT ACCORDING TO LAP SPLICE SCHEDULE.
11. LINTELS SHALL BEAR A MINIMUM OF 8" UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE GROUT BELOW BEARING 16" DEEP BY 16" LONG.
12. CONTRACTOR SHALL COORDINATE POCKETS FOR STEEL BEAMS AND COLUMNS. GROUT 16" DEEP AND 16" LONG UNDER BEAM BEARING UNLESS NOTED OTHERWISE.
13. FROM THE SUPPORTING STRUCTURE, PROVIDE REINFORCING DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL ELEMENT REINFORCEMENT. DOWELS SHALL HAVE STANDARD ACI HOOKS INTO FOOTING. LAP LENGTH FOR DOWELS FROM FOUNDATION MAY BE 36 BAR DIAMETERS UNLESS NOTED OTHERWISE.
14. PROVIDE STANDARD GALVANIZED W1.7 LADDER TYPE HORIZONTAL JOINT REINFORCEMENT IN MASONRY WALLS AT 16" o/c. JOINT REINFORCEMENT SHALL BE 8" o/c IN PARAPET WALLS. DISCONTINUE JOINT REINFORCING AT CONTROL JOINTS.
15. PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCEMENT AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCEMENT AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT FLOORS AND ROOF. BOND BEAMS SHALL BE PROVIDED AT ALL FLOOR AND ROOF LINES. STEP BOND BEAM AS REQUIRED TO MATCH ROOF SLOPES. UNLESS NOTED OTHERWISE, PROVIDE BOND BEAM WITH (2) #5 ABOVE AND BELOW ALL OPENINGS AND EXTEND BARS AT LEAST 24" PAST OPENING.
16. VERTICAL CONTROL JOINTS IN CMU WALLS SHALL BE LOCATED AS FOLLOWS:
    A. MAXIMUM OF 10'-0" FROM BUILDING CORNERS.
    B. MINIMUM OF WALL HEIGHT+1.5 AND 2'-0" o/c.
    C. AT CHANGES IN WALL HEIGHT OR THICKNESS.
    D. AT WALLS ADJACENT TO COLUMNS.
    E. AT CONSTRUCTION AND EXPANSION JOINTS IN FOUNDATIONS, ROOFS AND FLOORS.
17. DO NOT LOCATE CONTROL JOINTS WITHIN 24" OF STEEL BEAM BEARING LOCATIONS.
18. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CONTROL JOINTS IN MASONRY VENEER.
19. PROVIDE (1) VERTICAL BAR MATCHING TYPICAL WALL REINFORCING IN SOLID GROUTED CELLS EACH SIDE OF ALL CONTROL JOINTS, AT WALL ENDS AND CORNERS. PROVIDE (1) VERTICAL BAR MATCHING TYPICAL WALL FOR FULL HEIGHT OF WALL AT ALL OPENINGS. ADDITIONAL REINFORCING IS CALLED OUT ON PLANS.
20. STARTER COURSES OF MASONRY ON FOUNDATIONS AND WHERE THICKNESS CHANGES SHALL BE SET IN FULLY BEDDED JOINTS. WHERE THICKNESS CHANGES OCCUR, MASONRY AT THE CHANGE SHALL BE GROUTED SOLID.
21. COLD AND HOT WEATHER MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.
22. LOW LIFT GROUTING SHALL LIMIT GROUT POURS TO 5'-0" o/c MAXIMUM. HIGH LIFT GROUTING POURS SHALL BE LIMITED TO A MAXIMUM HEIGHT OF 6'-0" AND REQUIRE CLEANOUTS AT MAXIMUM OF 48" o/c.
23. BRACING OF MASONRY WALL DURING CONSTRUCTION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
24. ALL WALLS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE.
25. AT WALL CORNERS WHERE BOND BEAMS INTERSECT AT DIFFERENT ELEVATIONS, RUN EACH BOND BEAM AROUND CORNER FOR A MINIMUM OF 32". WHERE BOND BEAMS ADJOIN ON THE SAME WALL AT DIFFERENT ELEVATIONS, LAP BOND BEAMS PAST EACH OTHER A MINIMUM OF 64".
26. PROVIDE CORNER BARS MATCHING BOND BEAM REINFORCING AT ALL CORNERS. LAP 48 BAR DIAMETERS WITH BOND BEAM REINFORCING.
27. VERTICAL REINFORCING DETAILED IN THESE NOTES OR SHOWN ON PLANS SHALL EXTEND FROM FOUNDATION TO TOP OF WALL UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. DESIGN, DETAILING (INCLUDING CONNECTIONS), FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH CODE REFERENCED STANDARDS OF AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
2. WELDS SHALL CONFORM TO AWS D1.1 UNLESS NOTED OTHERWISE. WELDING SHALL BE DONE BY WELDERS HOLDING CURRENT CERTIFICATES IN THE TYPE OF WELDS SHOWN ON THE CONSTRUCTION DRAWINGS. ALL MISCELLANEOUS FILLET WELDS NOT NOTED, INCLUDING THOSE FOR STIFFENERS, MISCELLANEOUS PLATES, ETC SHALL BE PER AISC 360, TABLE J2.4
3. CONTRACTOR SHALL SUBMIT STRUCTURAL STEEL SHOP DRAWINGS IN ACCORDANCE WITH AISC 360 AND AISC 303. CONTRACTOR MUST REVIEW AND STAMP SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT.
4. CONTRACTOR SHALL DETERMINE, FURNISH AND INSTALL TEMPORARY BRACING REQUIRED TO SAFELY ERECT STRUCTURAL STEEL IN ACCORDANCE WITH AISC 303 AND OSHA REQUIREMENTS. BRACING SHALL BE LEFT IN PLACE UNTIL THE PERMANENT STRUCTURE IS IN PLACE AND SECURE.
5. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE FINAL CONNECTIONS ARE SECURED AND PRIOR TO PLACING OR APPLYING OTHER MATERIALS TO THE BUILDING STRUCTURE.
6. BEAMS SHALL BE ERECTED WITH THE NATURAL OR DESIGN CAMBER (WITHIN MILL TOLERANCE) WITH THE CROWN OF THE CAMBER AT THE TOP.
7. CONTRACTOR SHALL COORDINATE WORK BETWEEN THE STEEL SUPPLIER AND STEEL JOIST SUPPLIER.
8. STEEL CONNECTIONS SHALL BE DETAILED AS INDICATED ON THE CONSTRUCTION DRAWINGS. WHERE CONNECTIONS ARE NOT DETAILED, THE FABRICATOR IS ALLOWED TO DETAIL THE CONNECTIONS BASED ON THE BEAM REACTIONS SHOWN AND THE FOLLOWING:
    A. ALL REACTIONS ARE SERVICE LEVEL.
    B. SELECTION OF CONNECTIONS SHALL BE BASED ON ASD.
    C. USE OF STANDARD DETAILS SHOWN ON CONSTRUCTION DRAWINGS.
9. ALTERNATE CONNECTIONS TO THOSE SHOWN MAY BE CONSIDERED. APPROVAL BY THE STRUCTURAL ENGINEER IS REQUIRED.
10. ANY HOLES, CUTS OR COPING OF STEEL IN THE FIELD MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO WORK. CONTRACTOR SHALL COORDINATE ALL HOLES REQUIRED BY OTHER TRADES WITH STRUCTURAL ENGINEER PRIOR TO WORK.
11. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE CONSTRUCTION DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
12. ALL BOLTS SHALL BE A325-N UNLESS NOTED OTHERWISE AND INSTALLED SNUG TIGHT UNLESS NOTED OTHERWISE. BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS."
13. SPLICES SHALL BE ALLOWED ONLY AT LOCATIONS INDICATED ON CONSTRUCTION DRAWINGS UNLESS APPROVED BY STRUCTURAL ENGINEER.
14. CONTRACTOR SHALL COORDINATE EMBEDDED ITEMS AND CONNECTION MATERIALS THAT ARE PART OF THE WORK OF OTHER TRADES BUT THAT WILL RECEIVE STRUCTURAL STEEL.
15. BASE PLATES SHALL BE GROUTED IMMEDIATELY AFTER THE STRUCTURAL STEEL FRAME OR PORTION THEREOF HAS BEEN PLUMBED.
16. STAIRS, HANDRAILS, AND GUARDRAILS SHALL BE DESIGNED AND DETAILED BY THE STEEL SUPPLIER. CONNECTIONS INTO SURROUNDING STRUCTURE SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.
17. PROVIDE 3/16" CAP PLATES AT THE ENDS OF ALL EXPOSED HSS AND PIPE MEMBERS, UNLESS NOTED OTHERWISE.
18. WEEP HOLES SHALL BE PROVIDED IN EXTERIOR HSS AND PIPE COLUMNS. HOLES SHALL BE 1/2" DIA AND CENTERED 1" ABOVE THE BASEPLATE.
19. COAT STEEL BELOW GRADE STEEL SUBJECTED TO MOISTURE WITH COLD APPLIED ASPHALT EMULSION PER ASTM D1187.
20. REFER TO ARCHITECTURAL PLANS FOR MISCELLANEOUS STEEL NOT DETAILED ON THE STRUCTURAL PLANS.

STEEL JOISTS AND JOIST GIRDERS

1. STEEL JOIST AND JOIST GIRDER DESIGN, MANUFACTURE, APPLICATION, ERECTION STABILITY AND HANDLING SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATION FOR K-SERIES, LH-SERIES, DLH-SERIES OPEN WEB STEEL JOISTS AND FOR JOIST GIRDERS."
2. STEEL JOIST AND JOIST GIRDER MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE (SJI).
3. ERECTION SHALL CONFORM TO CURRENT OSHA STANDARDS.
4. CONTRACTOR SHALL SUBMIT STEEL JOIST AND JOIST GIRDER SHOP DRAWINGS PRIOR TO FABRICATION.
5. CONTRACTOR SHALL COORDINATE STEEL JOIST WORK WITH PROJECT STEEL SUPPLIER.
6. BRIDGING SHOWN ON PLANS IS SCHEMATIC. PROVIDE BRIDGING TO MEET CURRENT SJI SPECIFICATION. JOIST BRIDGING SHALL CONFORM TO SJI SPECIFICATIONS, INCLUDING BRIDGING REQUIRED FOR JOISTS SUBJECTED TO UPLIFT LOADS. ENDS OF ALL BRIDGING LINES SHALL BE ANCHORED TO WALLS OR BEAMS.
7. JOISTS AND JOIST GIRDER MEMBERS SHALL NOT BE NOTCHED, CUT OR DRILLED WITHOUT THE APPROVAL OF THE JOIST SUPPLIER.
8. JOISTS DESIGNATED WITH "SP" ON PLANS ARE SPECIAL JOISTS WHICH SHALL BE DESIGNED FOR THE LOADINGS INDICATED.
9. ROOF JOISTS SHALL BE DESIGNED FOR A GROSS UPLIFT OF 13.5 PSF (0.6DL + 0.6WL).
10. PERMANENT SUSPENDED LOADS SHALL NOT BE SUPPORTED BY THE JOIST BRIDGING.
11. CONTRACTOR SHALL SUBMIT SPRINKLER SHOP DRAWINGS INCLUDING LOADS, LOCATIONS OF PIPING AND HANGER LOCATIONS PRIOR TO FABRICATION OF JOISTS.
12. ALL CONCENTRATED LOADS SHALL OCCUR AT A JOIST PANEL POINT UNLESS SPECIFICALLY NOTED OTHERWISE. REFER TO TYPICAL DETAILS WHERE JOIST LOADS DO NOT OCCUR AT A PANEL POINT.
13. PROVIDE CAMBER IN ACCORDANCE TO SJI SPECIFICATIONS.
14. JOIST GIRDERS SHALL BE DESIGNED TO MEET A TOTAL LOAD DEFLECTION OF L/360 UNLESS NOTED OTHERWISE.

STEEL DECK

1. STEEL DECK SHALL BE IN ACCORDANCE WITH AISI, "NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS" AND STEEL DECK INSTITUTE SPECIFICATIONS.
2. STEEL DECK SHALL BE INSTALLED PERPENDICULAR TO SUPPORTS AND SHALL HAVE A MINIMUM LAYUP OF THREE SPAN CONTINUOUS.
3. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE - SHEET STEEL".
4. PERMANENT SUSPENDED LOADS SHALL NOT BE SUPPORTED BY STEEL ROOF DECK.
5. STEEL DECK AT BUILDING COLUMNS THAT PASS THROUGH THE DECK SHALL BE SUPPORTED BY L2x2x3/16" ATTACHED TO THE COLUMNS.
6. OPENINGS LESS THAN 12"x12" SHALL BE REINFORCED WITH AN 18"x18" 16 GAGE COVER PLATE. ATTACH OVER PLATE TO DECK USING #12 TEK SCREWS AT 6" o/c AROUND PLATE. WHERE ONE RIB IS CUT, NO REINFORCING IS REQUIRED.
7. OPENINGS LARGER THAN 12"x12" SHOULD BE SUPPORTED BY STEEL SUPPORT FRAMES. REFER TO TYPICAL DETAILS.
8. AT CHANGE IN DECK DIRECTION, SUPPLIER SHALL PROVIDE A 12" CONTINUOUS 22 GAGE PLATE. ATTACHED TO EACH RIB WITH (1) #12 TEK SCREW.
9. STEEL DECK SUPPLIER SHALL PROVIDE ALL NECESSARY ACCESSORIES SUCH AS RIDGE AND VALLEY PLATES, SADDLES, COVER PLATES AND POUR STOPS NOT SPECIFICALLY NOTED ON THE PLANS.
10. MECHANICAL AND ELECTRICAL SHALL NOT BE EMBEDDED IN CONCRETE OVER STEEL DECK UNLESS SPECIFICALLY APPROVED BY STRUCTURAL ENGINEER.

SHOP DRAWINGS

1. SHOP DRAWINGS SHALL BE SUBMITTED FOR ALL STRUCTURAL ITEMS IN ADDITION TO ITEMS REQUIRED BY PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL REVIEW AND STAMP ALL SHOP DRAWINGS PRIOR TO SUBMITTING TO THE ARCHITECT. ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMEN

DESIGN INFORMATION

BUILDING CODE

CODE
INTERNATIONAL BUILDING CODE 2021 WITH WISCONSIN 2025 BUILDING CODE AMENDMENTS

GRAVITY SYSTEM

ELEMENT	DEAD LOAD	LIVE LOAD
ROOF	18 PSF	REFER TO SNOW LOAD
MEZZANINE	76 PSF	75 PSF, CONSTRUCTION LIVE LOAD NOT TO EXCEED 50 PSF.

SNOW CRITERIA

CODE INFORMATION	DESIGN INFORMATION
DESIGN SNOW LOAD	25 PSF PLUS DRIFT WHERE INDICATED
FLAT ROOF SNOW LOAD	23.1 PSF
SNOW EXPOSURE FACTOR	Ce = 1.0
SNOW IMPORTANCE FACTOR	Is = 1.1
SNOW OCCUPANCY FACTOR	III
THERMAL FACTOR	Ct = 1.0
GROUND SNOW	Pg = 30 PSF
RAIN ON SNOW SURCHAGE	0 PSF
SLOPED ROOF FACTOR	Cs = 1.0

WIND CRITERIA

CODE INFORMATION	DESIGN INFORMATION
BASIC WIND SPEED (3 SECOND GUST)	114 MPH (ULTIMATE)
WIND DIRECTIONALITY FACTOR	Kd = 0.85
MEAN ROOF HEIGHT	23.6 FT
WIND IMPORTANCE FACTOR	Iw=1.0
WIND OCCUPANCY CATEGORY	III
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	GCPi = +-0.18
TOPOGRAPHIC FACTOR	Kzt = 1.0
DESIGN PROCEDURE	SIMPLE DIAPHRAGM

ROOF SURFACE WIND PRESSURES ULTIMATE

AREA	10 SF	50 SF	100 SF
NEGATIVE ZONE 1	-49.7 PSF	-42.1 PSF	-38.8 PSF
NEGATIVE ZONE 2	-65.6 PSF	-55.8 PSF	-51.6 PSF
NEGATIVE ZONE 3	-89.3 PSF	-69.8 PSF	-61.3 PSF
POSITIVE ALL ZONES	16.0 PSF	16.0 PSF	16.0 PSF

WALL SURFACE WIND PRESSURES ULTIMATE

AREA	10 SF	100 SF	500 SF
NEGATIVE ZONE 4	-30.9 PSF	-26.7 PSF	-23.8 PSF
NEGATIVE ZONE 5	-38.1 PSF	-29.7 PSF	-23.8 PSF
POSITIVE ZONE 4 AND 5	28.5 PSF	24.3 PSF	21.4 PSF

PARAPET WIND PRESSURES ULTIMATE

CASE	SOLID PARAPET PRESSURE	10 SF	100 SF	500 SF
CASE A: PRESSURE TOWARDS BUILDING	INTERIOR ZONE	85.3 PSF	67.0 PSF	54.1 PSF
CASE A: PRESSURE TOWARDS BUILDING	CORNER ZONE	109.3 PSF	76.8 PSF	54.1 PSF
CASE B: PRESSURE AWAY FROM BUILDING	INTERIOR ZONE	-50.4 PSF	-41.9 PSF	-36.0 PSF
CASE B: PRESSURE AWAY FROM BUILDING	CORNER ZONE	-57.6 PSF	-44.9 PSF	-36.0 PSF

SEISMIC CRITERIA

CODE INFORMATION	DESIGN INFORMATION
SEISMIC IMPORTANCE FACTOR	I - 1.25
OCCUPANCY CATEGORY	III
MAPPED SPECTRAL RESPONSE ACCELERATION (SHORT)	Ss = 8.40%g
MAPPED SPECTRAL RESPONSE ACCELERATION (LONG)	S1 = 5.10%g
SITE CLASS	B
SPECTRAL RESPONSE COEFFICIENT (SHORT)	SDS = 0.050
SPECTRAL RESPONSE COEFFICIENT (LONG)	SD1 = 0.027
SEISMIC DESIGN CATEGORY	A
BASIC SEISMIC FORCE RESISTING SYSTEM	ORDINARY PLAIN MASONRY SHEAR WALLS
DESIGN BASE SHEAR	0.042W
SEISMIC RESPONSE COEFFICIENT	Cs = 0.042
RESPONSE MODIFICATION FACTOR	1.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE ANALYSIS

GEOTECHNICAL CRITERIA

INFORMATION	DESIGN INFORMATION
ASSUMED SOIL UNIT WEIGHT	125 PCF
ALLOWABLE NET BEARING PRESSURE	4,000 PSF
SUBGRADE MODULUS	200 PCI
REPORT	BASED ON REPORT PROJECT NUMBER 1G-2505029-1 PREPARED BY GILES ENGINEERING ASSOCIATES, INC. FOR DESCRIPTION OF SOILS.

HANDRAIL AND GUARD LOADING

ALL HANDRAIL AND GUARD SYSTEMS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LIVE LOAD OF 200 LBS AND A NON-CONCURRENT LIVE LOAD OF 50 PLF. THESE LIVE LOADS SHALL BE APPLIED IN ANY DIRECTION AT ANY POINT ON THE HANDRAIL OR GUARD IN ACCORDANCE WITH IBC AND ASCE 7.4.5.1. REFER TO IBC 2407.1 FOR GLASS HANDRAIL AND GUARD REQUIREMENTS. STEEL FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF ALL STEEL HANDRAILS AND GUARDS AND ASSOCIATED CONNECTIONS.

STEEL DESIGN STRENGTHS

MATERIAL	STRENGTH
REINFORCING STEEL:	
ASTM A615, DEFORMED	Fy = 60 ksi
ASTM A706, LOW ALLOY, WELDABLE	Fy = 60 ksi
ASTM A1064, WELDED WIRE REINFORCEMENT	Fy = 65 ksi
STRUCTURAL STEEL:	
WIDE FLANGE, ASTM A992	Fy = 50 ksi
CHANNELS, ANGLES, S SHAPES, ASTM A36	Fy = 36 ksi
PLATE AND BAR STOCK, ASTM A36	Fy = 36 ksi
RECT HSS MEMBERS, ASTM A500, GRADE B	Fy = 46 ksi
PIPES, ASTM A53, GRADE B	Fy = 35 ksi
COLD-FORMED STEEL:	
18 GAUGE AND THINNER	Fy = 33 ksi
16 GAUGE AND THICKER	Fy = 50 ksi
METALLIC COATING DESIGNATION	G90
CONNECTIONS:	
BOLTS (PLAIN AND GALVANIZED)	ASTM A325
NUTS	ASTM A563
WASHERS	ASTM F436
TWIST-OFF TENSION CONTROL BOLTS	ASTM F1852
COMPRESSIBLE WASHER TYPE DIRECT TENSION	ASTM F959
ANCHOR RODS (GRADE SPECIFIED ON PLANS)	ASTM F1554
THREADED RODS	ASTM A36
SHEAR STUD CONNECTORS	ASTM A29
CLEVISES AND TURNBUCKLES	AISI C-1035
STEEL EYE NUTS AND STEEL EYE BOLTS	AISI C-1030
SLEEVE NUTS	AISI C-1018, GR 2
FILLER METAL FOR WELDS, ANSI/AWS D1.1	E70xx
FILLER METAL FOR REINFORCING BARS	E80xx
NON-METALLIC, NON-SHRINK GROUT	ASTM C1107

COLUMN BASE PLATE SCHEDULE

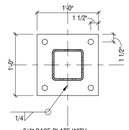
NOTES:

1. REFER TO PLAN FOR TOP OF CONCRETE ELEVATIONS.
2. PROVIDE ANCHOR RODS WITH NUT/WASHER ABOVE BASE PLATE AND LEVELING NUT/WASHER BELOW BASE PLATE. TACK WELD A NUT TO THE ROD END. AT FABRICATOR'S OPTION, SETTING PLATE MAY BE USED.
3. PROVIDE GROUT BED CONSISTING ON NON-SHRINK, NON-METALLIC GROUT. GROUT TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 8,000 PSI. PROVIDE GROUT HOLES IN THE BASE PLATE AS NECESSARY. REFER TO SCHEDULE FOR MINIMUM GROUT BED THICKNESS.

MINIMUM GROUT PAD THICKNESS

ANCHOR BOLT DIAMETER (INCHES)	GROUT PAD THICKNESS (INCHES)
1/2" TO 1"	1 1/2"
1 1/4" TO 1 1/2"	2"
1 3/4" TO 2"	2 1/2"

4. BASE PLATES SHALL BE FINISHED IN ACCORDANCE WITH AISC 360, CHAPTER M.
5. COLUMN BASES SHALL BE SET LEVEL AND TO CORRECT ELEVATION WITH FULL BEARING ON CONCRETE OR MASONRY.

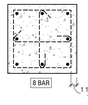


3/4" BASE PLATE WITH
(4) 3/4" DIA ASTM F1554 GR 36
ANCHOR BOLTS WITH TACK
WELDED NUT AT END. PROVIDE
10" EMBEDMENT

BP1

CONCRETE PIER SCHEDULE

TYPICAL CONCRETE PIER REINFORCING



NOTES:

1. PROVIDE (3) TIES AT 1 1/2"o/c. LOCATE TOP TIE 2" FROM TOP OF PIER
2. WHERE NO SPECIFIC DOWELS ARE NOTED, VERTICAL PIER REINFORCING SHALL BE PLACED INTO FOOTING. PROVIDE STANDARD 90 DEGREE HOOK. LOCATE HOOK 3" FROM BOTTOM OF FOOTING
3. WHERE A PIER IS LOCATED IN A WALL, WALL HORIZONTAL BARS ARE TO RUN CONTINUOUS THROUGH PIER.
4. ALL CONCRETE PIERS ARE TO BE CENTERED ON GRID LINES UNLESS NOTED OTHERWISE
5. LAP DOWELS WITH PIER VERTICALS MAXIMUM OF 30 BAR DIAMETERS OR 24", WHICHEVER IS MORE, UNLESS NOTED OTHERWISE
6. WHERE MASONRY PIERS REST ON CONCRETE PIERS, ALIGN VERTICAL BARS OF EACH ELEMENT

MARK	SIZE	VERTICAL REINFORCEMENT	TIES	COMMENTS
P20	20"x20"	(8) #5	#3 AT 12" o/c	

MASONRY DESIGN STRENGTHS

MATERIAL	STRENGTH
CONCRETE MASONRY UNITS:	
NET AREA COMPRESSIVE STRENGTH	f'm = 2,500 psi
USING TYPE M OR S MORTAR	f'c = 3,250 psi
USING TYPE N MORTAR (ABOVE GRADE ONLY)	f'c = 4,350 psi
MASONRY GROUT	f'c = 3,000 psi

MASONRY SPLICE LENGTHS

BAR SIZE	BAR w/ 1-1/2" COVER	BAR w/ 2" COVER	BAR CENTERED IN 8" CMU	BAR CENTERED IN 10" CMU	BAR CENTERED IN 12" CMU
#3	17"	15"	12"	12"	12"
#4	30"	22"	13"	12"	12"
#5	32"	34"	20"	15"	13"
#6	39"	39"	37"	29"	24"
#7	45"	45"	45"	40"	33"
#8	52"	52"	52"	52"	50"

MASONRY LINTEL SCHEDULE

NOTES:

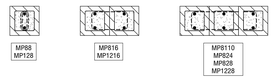
1. LINTEL BEARING SHALL BE 8" UNLESS NOTED OTHERWISE.
2. LINTEL BOTTOM PLATE SHALL BE EQUAL TO THE WALL WIDTH LESS 1". REFER TO ARCHITECTURAL DRAWINGS FOR WALL WIDTH AND MASONRY OPENING. OFFSET PLATES TO CARRY VENEER.
3. GROUT MASONRY SOLID A MINIMUM OF 16" WIDE x 16" VERTICAL UNDER ALL LINTELS UNLESS NOTED OTHERWISE.

MARK	LINTEL SPECIFICS	COMMENTS
L1	8" BOND BEAM w/ (2) #5	
L2	16" BOND BEAM w/ (2) #5	
L3	24" BOND BEAM w/ (2) #5	
L4	W8x18	PROVIDE 1/4" BOTTOM PLATE
L5	W8x18	PROVIDE 5/16" BOTTOM PLATE EXTENDED TO CARRY EXTERIOR FACADE
L6	W8x24	PROVIDE 1/4" BOTTOM PLATE
L7	W8x24	PROVIDE 5/16" BOTTOM PLATE EXTENDED TO CARRY EXTERIOR FACADE. PROVIDE 3/8" DIAx4" LONG HEADED STUDS AT 32" o/c AT TOP FLANGE.
L8	W8x28	PROVIDE 1/4" BOTTOM PLATE
L10	W16x36	PROVIDE 1/4" BOTTOM PLATE
L11	W16x36	PROVIDE 5/16" BOTTOM PLATE EXTENDED TO CARRY EXTERIOR FACADE
L12	W16x36	PROVIDE 5/16" BOTTOM PLATE EXTENDED TO CARRY EXTERIOR FACADE. PROVIDE 3/8" DIAx4" LONG HEADED STUDS AT 32" o/c AT TOP FLANGE.
L13	W16x40	PROVIDE 5/16" BOTTOM PLATE EXTENDED TO CARRY EXTERIOR FACADE. PROVIDE 3/8" DIAx4" LONG HEADED STUDS AT 32" o/c AT TOP FLANGE. 12" BEARING.

MASONRY PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	TIES	COMMENTS
MP88	7 5/8"x8"	(2) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP816	7 5/8"x16"	(4) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP8110	7 5/8"x22"	(4) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP824	7 5/8"x24"	(6) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP828	7 5/8"x32"	(6) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP128	11 5/8"x8"	(2) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP1216	11 5/8"x16"	(4) #5	#3 AT 8" o/c	(1) BAR EACH FACE
MP1228	11 5/8"x32"	(6) #5	#3 AT 8" o/c	(1) BAR EACH FACE

MASONRY PIER REINFORCING



7 S002 MASONRY PIER PLANS
3/4" = 1'-0"

CONCRETE DESIGN STRENGTHS

ELEMENT	CONCRETE STRENGTH	MAX AGGREGATE	MAX w/c RATIO	AIR CONTENT	SLUMP
FOOTINGS	3,000 PSI	1-1/2"	0.59	NONE	5"
FOUNDATION WALLS/PIERS	4,000 PSI	3/4"	0.50	6% +/-1.5%	4"
EXTERIOR WALLS/PIERS	4,000 PSI	3/4"	0.50	5% +/-1%	4"
SLAB ON GRADE - INTERIOR (4" OR LESS THICKNESS)	3,500 PSI	1"	0.48	NONE	4"
SLAB ON GRADE -INTERIOR (5" OR GREATER THICKNESS)	3,500 PSI	1-1/2"	0.48	NONE	4"
SLAB ON GRADE - EXTERIOR	4,500 PSI	3/4"	0.45	6% +/-1.5%	4"
CONCRETE ON METAL DECK	4,000 PSI	3/4"	0.48	NONE	4"
LEAN CONCRETE	500 PSI	1-1/2"	0.55	NONE	6"

CONCRETE REINFORCING LAP SCHEDULE

CONCRETE = 3000 psi		CONCRETE = 4000 psi		CONCRETE = 5000 psi		CONCRETE = 6000 psi	
BAR SIZE	LAP LENGTH	BAR SIZE	LAP LENGTH	BAR SIZE	LAP LENGTH	BAR SIZE	LAP LENGTH
#3	22"	#3	19"	#3	17"	#3	16"
#4	29"	#4	25"	#4	22"	#4	21"
#5	36"	#5	31"	#5	28"	#5	26"
#6	43"	#6	37"	#6	33"	#6	31"
#7	63"	#7	54"	#7	49"	#7	44"
#8	72"	#8	62"	#8	55"	#8	51"
#9	81"	#9	70"	#9	63'	#9	57"
#10	91"	#10	79"	#10	70 "	#10	64"
#11	101"	#11	87"	#11	78"	#11	71"

FOOTING SCHEDULES

NOTES:

1. REFER TO GENERAL NOTES FOR COVER REQUIREMENTS.
2. REFER TO CONCRETE REINFORCING LAP SCHEDULE FOR REINFORCING LAP.

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING		COMMENTS
			LONGITUDINAL	TRANSVERSE	
W20	2'-0"	1'-0"	(2) #5xCONT		
W208	2'-0"	1'-0"	(2) #5xCONT		

THICKENED SLAB SCHEDULE

MARK	WIDTH	THICKNESS	REINFORCING		COMMENTS
			LONGITUDINAL	TRANSVERSE	
TS20	2'-0"	1'-0"	(2) #5xCONT		
TS26	2'-6"	1'-0"	(2) #5xCONT		

COLUMN FOOTING SCHEDULE

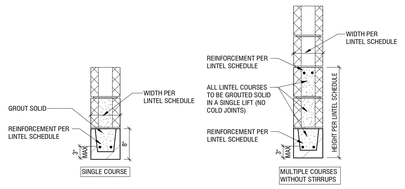
MARK	WIDTH	LENGTH	THICKNESS	REINFORCING		COMMENTS
				LONGITUDINAL	TRANSVERSE	
F30	3'-0"	3'-0"	1'-0"	(3) #4 BOTTOM	(3) #4 BOTTOM	
F40	4'-0"	4'-0"	1'-0"	(4) #5 BOTTOM	(4) #5 BOTTOM	

LOOSE LINTEL SCHEDULE

MASONRY OPENING	ANGLE SIZE
0 TO 5'-0"	L4x4x5/16
5'-1" TO 7'-0"	L5x3 1/2x5/16 (LLV)
7'-1" TO 9'-0"	L6x4x5/16 (LLV)
9'-1" TO 10'-0"	L6x4x3/8 (LLV)

LOOSE LINTEL FINISH

FINISH	USE
PLAIN	
GALVANIZED	X
COATING SUITABLE FOR EXTERIOR EXPOSURE	
STAINLESS STEEL	



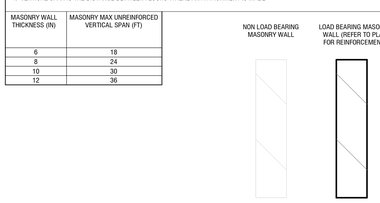
5 S002 MASONRY LINTELS
3/4" = 1'-0"

NON-LOADBEARING INTERIOR MASONRY WALLS

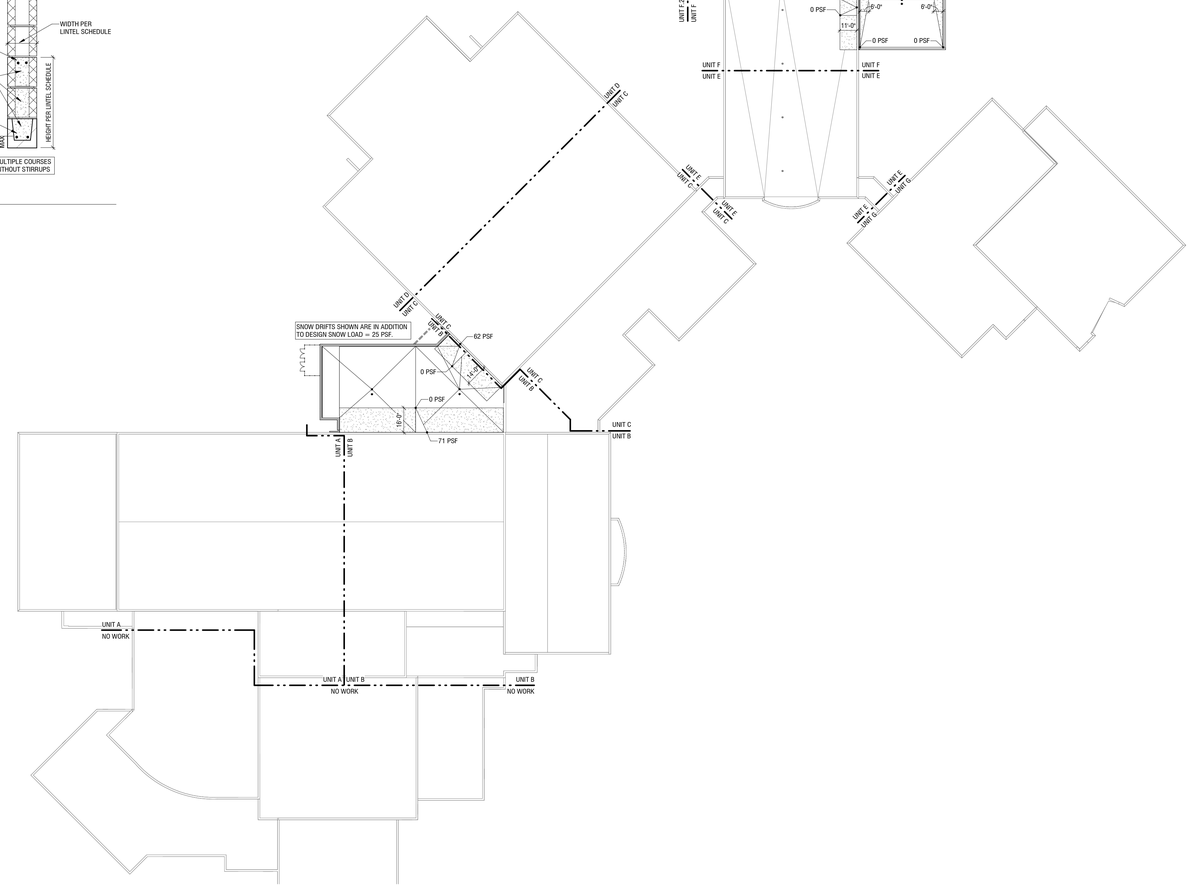
NOTES:

1. ALL MASONRY WALLS NOT INDICATED AS LOAD BEARING ON STRUCTURAL DRAWINGS ARE TO FOLLOW SCHEDULE BELOW.
2. SCHEDULE ONLY APPLIES TO INTERIOR MASONRY WALLS
3. AT LOCATIONS WHERE REQUIREMENTS ARE NOT MET, REINFORCEMENT IS REQUIRED.
4. VERTICAL SPAN IS THE DISTANCE BETWEEN FLOORS WHERE AN ATTACHMENT IS MADE

MASONRY WALL THICKNESS (IN)	MASONRY MAX UNREINFORCED VERTICAL SPAN (FT)
6	18
8	24
10	30
12	36



3 S002 MASONRY LATERAL SUPPORT DETAIL
3/4" = 1'-0"



4 S002 SNOW DRIFT PLAN
1" = 40'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com
REYN ENGINEERING
507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
REYN PROJECT NO: 25187

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

Δ	DATE	DESCRIPTION

Issued for:
CONSTUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
STRUCTURAL SCHEDULES

Sheet Number:
S002

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2021 IBC SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL CONFORM TO INTERNATIONAL BUILDING CODE CHAPTER 17 AND ANY LOCAL AMENDMENTS.
2. SPECIAL INSPECTIONS SHALL BE CARRIED OUT ACCORDING TO "THE STATEMENT OF SPECIAL INSPECTIONS".
3. LABORATORIES FOR MATERIAL TESTING AND/OR AGENCIES FOR TESTING SERVICES SHALL BE SELECTED BY, CONTRACTED BY AND RESPONSIBLE TO THE OWNER. THE SPECIAL INSPECTOR SHALL BE A COMPETENT QUALIFIED INDIVIDUAL/AGENCY WHO CAN PROVIDE ALL NECESSARY INFORMATION REGARDING INSPECTIONS TO THE BUILDING OFFICIAL.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, PROJECT ARCHITECT, PROJECT STRUCTURAL ENGINEER, CONTRACTOR AND OWNER.
5. THE SPECIAL INSPECTION AGENCY SHALL KEEP RECORDS OF INSPECTIONS AND SHALL PROVIDE RECORDS/REPORTS TO THE BUILDING OFFICIAL AND REGISTERED PROFESSIONAL OF RECORD.
6. FAILED INSPECTIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR, BUILDING OFFICIAL AND PROFESSIONAL OF RECORD. ALL FAILED INSPECTIONS AND DISCREPANCIES SHALL BE CORRECTED AFTER NOTIFYING THE PROFESSIONAL OF RECORD.
7. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPENCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

Structural Schedule of Special Inspections

Definitions

QC — Tasks listed for QC are those inspections performed by the QCI (the fabricator's and/or erector's quality control inspector) to ensure that the work is performed in accordance with the construction documents. Refer to AISC Chapter N and SDI QA/QC Standard.

QA — Tasks listed for QA are those inspections performed by the QAI (quality assurance inspector) to ensure that the work is performed in accordance with the construction documents. Refer to AISC Chapter N and SDI QA/QC Standard.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN THE SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE — Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE — Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT — Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

Experienced Testing Technician

ETT — Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection

American Institute of Steel Construction (AISC)
Refer to AISC Chapter N Section N4 for inspector qualification requirements.

American Concrete Institute (ACI) Certification

ACI-CFTT — Concrete Field Testing Technician – Grade 1
ACI-CCI — Concrete Construction Inspector
ACI-LTT — Laboratory Testing Technician – Grade 1&2
ACI-STT — Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI — Certified Welding Inspector
AWS/AISC-SSI — Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT — Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI — Structural Masonry Special Inspector
ICC-SWSI — Structural Steel and Welding Special Inspector
ICC-SFSI — Spray-Applied Fireproofing Special Inspector
ICC-PCSI — Prestressed Concrete Special Inspector
ICC-RCSI — Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT — Concrete Technician – Levels I, II, III & IV
NICET-ST — Soils Technician - Levels I, II, III & IV
NICET-GET — Geotechnical Engineering Technician - Levels I, II, III & IV

Structural Schedule of Special Inspections
FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2.5.1	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Fabrications Procedures: Review of the fabricator's written fabrication procedures and quality control manuals that provide a basis for control of materials and workmanship, with periodic auditing of fabrication and quality control practices by an approved agency or the building official. -OR- 2. AISC Certification	Y	S	Fabricator shall submit one of the two qualifications		PE/SE or EIT	
3. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the owner or the owner's authorized agent for submittal to the building official as specified in Section 1704.5 stating that the work was performed in accordance with the approved construction documents	Y	S	IBC 1704.2.5.1		PE/SE or EIT	

Structural Schedule of Special Inspections
STRUCTURAL STEEL – OTHER INSPECTION TASKS

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Section N5	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Erected steel frame					
a. Verify compliance with the details shown on the construction documents, such as braces, stiffeners, member locations and proper application of joint details at each connection.	Y	P	--		
2. Anchor rods and other embedments supporting structural steel					
a. Prior to placement of concrete, verify compliance with construction documents, including diameter, grade, type and length of anchor rod or embedded item, and the extent or depth of embedment into the concrete	Y	--	P	DOCUMENT	
3. Fabricated steel or erected steel frame					
a. Verify compliance with the details shown on the construction documents	Y	--	P		
4. Document acceptance or rejection of joint details	Y	P	P		
5. Protected zone – no holes and unapproved attachments made by fabricator or erector, as applicable.	Y	P	P	DOCUMENT	

Structural Schedule of Special Inspections
STRUCTURAL STEEL – WELDING
STEEL INSPECTION PRIOR TO WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table N5.4-1	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
1. Welder qualification records and continuity records	Y	P	0		
2. Verify that the welding procedures specification (WPS) is available	Y	P	P		
3. Verify manufacturer certifications for welding consumables are available	Y	P	P		
4. Verify material identification (type/grade)	Y	0	0		
5. Welder Identification System	Y	0	0		
6. Fit-up of groove welds (including joint geometry)					
a. Joint preparation	Y	0	0		
b. Dimensions (alignment, root opening, root face, bevel)	Y	0	0		
c. Cleanliness (condition of steel surfaces)	Y	0	0		
d. Tacking (tack weld quality and location)	Y	0	0		
e. Backing type and fit (if applicable)	Y	0	0		
7. Fit-up of CJP groove welds of HSS T-, Y- & K-joints without backing (including joint geometry)					
a. Joint preparation	Y	P	0		
b. Dimensions (alignment, root opening, root face, bevel)	Y	P	0		
c. Cleanliness (condition of steel surfaces)	Y	P	0		
d. Tacking (tack weld quality and location)	Y	P	0		
8. Configuration and finish of access holes	Y	P	0		
9. Fit-up of fillet welds					
a. Dimensions (alignment, gaps at root)	Y	0	0		
b. Cleanliness (condition of steel surfaces)	Y	0	0		
c. Tacking (tack weld quality and location)	Y	0	0		
10. Check welding equipment	Y	0	-		
11. Specific assembly order, welding sequence, welding technique, or other special precautions for joints or groups of joints.	Y	P	P	DOCUMENT	
12. Manufacturer's product data sheets or catalog data for shielded metal arc welding (SMAW), flux cored arc welding (FCAW), and gas metal arc welding (GMAW) composite (cored) filler metals to be used.	Y	P	P	DOCUMENT	

Structural Schedule of Special Inspections
STRUCTURAL STEEL – WELDING
STEEL INSPECTION DURING WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table C-N5.4-2	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
13. Control and handling of welding consumables					
a. Packaging	Y	0	0		
b. Exposure control	Y	0	0		
14. No welding over cracked tack welds	Y	0	0		
15. Environmental conditions					
a. Wind speed within limits	Y	0	0		
b. Precipitation and temperature	Y	0	0		
16. Welding Procedures Specification followed					
a. Settings on welding equipment	Y	0	0		
b. Travel speed	Y	0	0		
c. Selected welding materials	Y	0	0		
d. Shielding gas type/flow rate	Y	0	0		
e. Preheat applied	Y	0	0		
f. Interpass temperature maintained (min/max)	Y	0	0		
g. Proper position (F, V, H, OH)	Y	0	0		
17. Welding techniques					
a. Interpass and final cleaning	Y	0	0		
b. Each pass within profile limitations	Y	0	0		
c. Each pass meets quality requirements	Y	0	0		
18. Placement and installation of steel headed stud anchors	Y	P	P		
19. Use of qualified welders	Y	0	0		
20. No welding over cracked tacks	Y	0	0		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – WELDING
STEEL INSPECTION AFTER WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table C-N5.4-3	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
21. Welds cleaned	Y	0	0		
22. Size, length, and location of all welds	Y	P	P		
23. Welds meet visual acceptance criteria					
a. Crack prohibition	Y	P	P	DOCUMENT	
b. Weld/base-metal fusion	Y	P	P	DOCUMENT	
c. Crater cross section	Y	P	P	DOCUMENT	
d. Weld profiles	Y	P	P	DOCUMENT	
e. Weld size	Y	P	P	DOCUMENT	
f. Undercut	Y	P	P	DOCUMENT	
g. Porosity	Y	P	P	DOCUMENT	
24. Arc strikes	Y	P	P		
25. k-area	Y	P	P	DOCUMENT	
26. Placement of reinforcing for contouring fillet welds where required	Y	P	P	DOCUMENT	
27. Backing removed, weld tabs removed and finished, and fillet welds added where required	Y	P	P	DOCUMENT	
28. Repair activities	Y	P	P		
29. Document acceptance or rejection of welded joint or member	Y	P	P		
30. No prohibited welds have been added without the approval of the EOR	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – BOLTING
STEEL INSPECTION PRIOR TO BOLTING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table N5.6-1	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
1. Manufacturer's certifications available for fastener materials	Y	O	P		
2. Fasteners marked in accordance with ASTM requirements	Y	O	O		
3. Correct fasteners selected for joint detail (grade, type, bolt length if threads are to be excluded from shear plane)	Y	O	O		
4. Correct bolting procedure selected for joint detail	Y	O	O		
5. Connecting elements, including appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	Y	O	O		
6. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	Y	P	O	DOCUMENT	
7. Protected storage provided for bolts, nuts, washers, and other fastener components	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – BOLTING
STEEL INSPECTION DURING BOLTING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table N5.6-2	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
8. Fastener assemblies of suitable condition, placed in all holes and washers (if required) are positioned as required	Y	O	O		
9. Joint brought to the snug-tight condition prior to pretensioning operation	Y	O	O		
10. Fastener component not turned by the wrench prevented from rotating	Y	O	O		
11. Bolts are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – BOLTING
STEEL INSPECTION AFTER BOLTING

VERIFICATION AND INSPECTION IBC Section 1705.2.1 AISC 360-16 Table N5.6-3	Y/N	QC: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	QA: (O) OBSERVE RANDOMLY OR (P) PERFORM FOR EACH WELD	COMMENTS	TASK COMPLETED
12. Document acceptance or rejection of all bolted connections	Y	P	P	DOCUMENT	

Structural Schedule of Special Inspections
OPEN-WEB STEEL JOISTS AND JOIST GIRDERS

VERIFICATION AND INSPECTION IBC Table 1705.2.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Installation of open-web steel joists and joist girders						
a. End connections – welding or bolted	Y	P	SJI 2207.1			
b. Bridging – horizontal or diagonal						
1. Standard bridging	Y	P	SJI 2207.1			
2. Bridging that differs from the SJI specifications listed in Section 2207.1	Y	P				

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION PRIOR TO DECK PLACEMENT

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.1	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	Y	P	P		
2. Document acceptance or rejection of deck and deck accessories	Y	P	P		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION AFTER DECK PLACEMENT

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.2	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Verify compliance of deck and all deck accessories installation with construction documents	Y	P	P		
2. Verify deck materials are represented by the mill certifications that comply with the construction documents	Y	N/A	P		
3. Document acceptance or rejection of installation of deck and deck accessories	Y	P	P		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION PRIOR TO WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.3	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Welding procedure specification (WPS) available	Y	O	O		
2. Manufacturers certifications for welding consumables available	Y	O	O		
3. Material identification (type/grade)	Y	O	O		
4. Check welding equipment	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION DURING WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.4	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Use of qualified welders	Y	O	O		
2. Control and handling of welding consumables	Y	O	O		
3. Environmental conditions (wind speed, moisture, temperature)	Y	O	O		
4. WPS followed	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION AFTER WELDING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.5	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Verify size and location of welds, including support, sidelap, and perimeter welds.	Y	P	P		
2. Welds meet visual acceptance criteria	Y	P	P		
3. Verify repair activities	Y	P	P		
4. Document acceptance or rejection of welds	Y	P	P		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION PRIOR TO MECHANICAL FASTENING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.6	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Manufacturer installation instructions available for mechanical fasteners	Y	O	O		
2. Proper tools available for fastener installation	Y	O	O		
3. Proper storage for mechanical fasteners	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION DURING MECHANICAL FASTENING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.7	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Fasteners are positioned as required	Y	O	O		
2. Fasteners are installed in accordance with manufacturer's instructions	Y	O	O		

Structural Schedule of Special Inspections
STRUCTURAL STEEL – COLD-FORMED METAL DECK
INSPECTION AFTER MECHANICAL FASTENING

VERIFICATION AND INSPECTION IBC Section 1705.2.2 SDI QA/QC Table 1.8	Y/N	QC: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	QA: (O) OBSERVE INTERMITTENTLY OR (P) PERFORM FOR EACH ITEM	COMMENTS	TASK COMPLETED
1. Check spacing, type, and installation of support fasteners	Y	P	P		
2. Check spacing, type, and installation of sidelap fasteners	Y	P	P		
3. Check spacing, type, and installation of perimeter fasteners	Y	P	P		
4. Verify repair activities	Y	P	P		
5. Document acceptance or rejection of mechanical fasteners	Y	P	P		

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

REYN ENGINEERING
507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
REYN PROJECT NO: 25187

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

Δ	DATE	DESCRIPTION

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SPECIAL INSPECTIONS

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2021 IBC SPECIAL INSPECTIONS

1. SPECIAL INSPECTIONS SHALL CONFORM TO INTERNATIONAL BUILDING CODE CHAPTER 17 AND ANY LOCAL AMENDMENTS.
2. SPECIAL INSPECTIONS SHALL BE CARRIED OUT ACCORDING TO "THE STATEMENT OF SPECIAL INSPECTIONS".
3. LABORATORIES FOR MATERIAL TESTING AND/OR AGENCIES FOR TESTING SERVICES SHALL BE SELECTED BY, CONTRACTED BY AND RESPONSIBLE TO THE OWNER. THE SPECIAL INSPECTOR SHALL BE A COMPETENT QUALIFIED INDIVIDUAL/AGENCY WHO CAN PROVIDE ALL NECESSARY INFORMATION REGARDING INSPECTIONS TO THE BUILDING OFFICIAL.
4. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS FOR EACH INSPECTION TO THE BUILDING OFFICIAL, PROJECT ARCHITECT, PROJECT STRUCTURAL ENGINEER, CONTRACTOR AND OWNER.
5. THE SPECIAL INSPECTION AGENCY SHALL KEEP RECORDS OF INSPECTIONS AND SHALL PROVIDE RECORDS/REPORTS TO THE BUILDING OFFICIAL AND REGISTERED PROFESSIONAL OF RECORD.
6. FAILED INSPECTIONS OR DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR, BUILDING OFFICIAL AND PROFESSIONAL OF RECORD. ALL FAILED INSPECTIONS AND DISCREPANCIES SHALL BE CORRECTED AFTER NOTIFYING THE PROFESSIONAL OF RECORD.
7. THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINAL REPORT INDICATING THE WORK REQUIRING SPECIAL INSPECTION WAS INSPECTED AND IS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND THAT ALL DISCREPENCIES NOTED IN THE INSPECTION REPORTS HAVE BEEN CORRECTED.

Structural Schedule of Special Inspections

Definitions

QC — Tasks listed for QC are those inspections performed by the QCI (the fabricator's and/or erector's quality control inspector) to ensure that the work is performed in accordance with the construction documents. Refer to AISC Chapter N and SDI QA/QC Standard.

QA — Tasks listed for QA are those inspections performed by the OAI (quality assurance inspector) to ensure that the work is performed in accordance with the construction documents. Refer to AISC Chapter N and SDI QA/QC Standard.

Qualifications of Inspectors and Testing Technicians

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN THE SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

PE/SE — Structural Engineer – a licensed SE or PE specializing in the design of building structures
PE/GE — Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations
EIT — Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination

Experienced Testing Technician

ETT — Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection

American Institute of Steel Construction (AISC)
Refer to AISC Chapter N Section N4 for inspector qualification requirements.

American Concrete Institute (ACI) Certification

ACI-CFTT — Concrete Field Testing Technician – Grade 1
ACI-CCI — Concrete Construction Inspector
ACI-LTT — Laboratory Testing Technician – Grade 1&2
ACI-STT — Strength Testing Technician

American Welding Society (AWS) Certification

AWS-CWI — Certified Welding Inspector
AWS/AISC-SSI — Certified Structural Steel Inspector

American Society of Non-Destructive Testing (ASNT) Certification

ASNT — Non-Destructive Testing Technician – Level II or III.

International Code Council (ICC) Certification

ICC-SMSI — Structural Masonry Special Inspector
ICC-SWSI — Structural Steel and Welding Special Inspector
ICC-SFSI — Spray-Applied Fireproofing Special Inspector
ICC-PCSI — Prestressed Concrete Special Inspector
ICC-RCSI — Reinforced Concrete Special Inspector

National Institute for Certification in Engineering Technologies (NICET)

NICET-CT — Concrete Technician – Levels I, II, III & IV
NICET-ST — Soils Technician - Levels I, II, III & IV
NICET-GET — Geotechnical Engineering Technician - Levels I, II, III & IV

Structural Schedule of Special Inspections
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION IBC Table 1705.3	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Inspect reinforcement, including prestressing tendons, and verify placement.	Y	P	ACI 318: 20, 25.2, 25.3, 26.6.1-26.6.3		PE/SE or EIT	
2. Reinforcing bar welding:						
a. Verify weldability of reinforcing bars other than ASTM A 706;	Y	P	AWS D1.4 ACI 318: 26.6.4		PE/SE or EIT	
b. Inspect single-pass welds, maximum 5/16"; and	Y	P			PE/SE or EIT	
c. Inspect all other welds.	Y	C			PE/SE or EIT	
3. Inspect anchors cast in concrete.	Y	P	ACI 318: 17.8.2		PE/SE or EIT	
4. Inspect anchors post-installed in hardened concrete members.						
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	Y	C	ACI 318: 17.8.2.4		PE/SE or EIT	
b. Mechanical anchors and adhesive anchors not defined in 4.a.	Y	P	ACI 318: 17.8.2		PE/SE or EIT	
5. Verifying use of required design mix.	Y	P	IBC: 1904.1, 1904.2, ACI 318: Ch. 19, 26.4.3, 26.4.4		PE/SE or EIT	
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Y	C	ASTM C 172 ASTM C 31 ACI 318: 26.5, 26.12		ACI-CFTT or ACI-STT	
7. Inspect concrete and shotcrete placement for proper application techniques.	Y	C	ACI 318: 26.5		PE/SE or EIT	
8. Verify maintenance of specified curing temperature and techniques.	Y	P	ACI 318: 26.5.3-26.5.5		PE/SE or EIT	
9. Inspect prestressed concrete for:			ACI 318: 26.10			
a. Application of prestressing force; and	N	C			PE/SE or EIT	
b. Grouting of bonded prestressing tendons.	N	C			PE/SE or EIT	
10. Inspect erection of precast concrete members.	N	P	ACI 318: 26.9		PE/SE or EIT	
11. For precast concrete diaphragm connections or reinforcement at joints classified as moderate or high deformability elements (MDE or HDE) in structures assigned to Seismic Design Category C, D, E, or F, inspect such connections and reinforcement in the field for:						
a. Installation of the embedded parts	Y	C	ACI 318: 26.13.1.3, ACI 550.5			
b. Completion of the continuity of reinforcement across joints	Y	C				
c. Completion of connections in the field	Y	C				
12. Inspect installation tolerances of precast concrete diaphragm connections for compliance with ACI 550.5	Y	P	ACI 318: 26.13.1.3			
13. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N	P	ACI 318: 26.11.2		ACI-STT	
14. Inspect formwork for shape, location and dimensions of concrete member being formed.	Y	P	ACI 318: 26.11.2(b)		ACI-STT	

Structural Schedule of Special Inspections
MINIMUM VERIFICATION REQUIREMENTS FOR MASONRY CONSTRUCTION

VERIFICATION REQUIREMENTS TMS 402-16/TMS 602-16 TABLE 3	REQUIRED FOR QUALITY ASSURANCE (Y/N)			REFERENCE FOR CRITERIA		AGENT QUALIFICATION	TASK COMPLETED
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602		
1. Prior to construction, verification of compliance of submittals	Y	Y	Y		Art. 1.5		
2. Prior to construction, verification of f'_m and f'_{AAC}, except where specifically exempted by the code	N	Y	Y		Art. 1.4 B		
3. During construction, verification of Slump flow and Visual Stability Index (VSI) when self-consolidating grout if delivered to the project site	N	Y	Y		Art. 1.5 & 1.6.3		
4. During construction, verification of f'_m and f'_{AAC} for every 5,000 sq. ft. (465 sq. m).	N	N	Y		Art. 1.4 B		
5. During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout.	N	N	Y		Art. 1.4 B		

Structural Schedule of Special Inspections
MASONRY CONSTRUCTION

VERIFICATION REQUIREMENTS TMS 402-16/TMS 602-16 TABLE 4	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE			REFERENCE FOR CRITERIA		AGENT QUALIFICATION	TASK COMPLETED
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602		
1. As masonry construction begins, verify that the following are in compliance							
a. Proportions of site-prepared mortar	--	P	P		Art. 2.1 & 2.6 A & C	PE/SE or EIT	
b. Grade and size of prestressing tendons and anchorages	--	P	P		Art. 2.4 B & 2.4 K & L	PE/SE or EIT	
c. Grade, type and size of reinforcement, connectors, and anchor bolts	--	P	P		Art. 2.4 A, D, E, F, G, I, & J	PE/SE or EIT	
d. Prestressing technique	--	P	P		Art. 3.6 B	PE/SE or EIT	
e. Properties of thin-bed mortar or AAC masonry	--	C (1) / P (2)	C		Art. 2.1 DC.1	PE/SE or EIT	
f. Sample panel construction	--	P	C		Art. 1.6 D	PE/SE or EIT	
2. Prior to construction, verification of the following are in compliance							
a. Grout space	--	P	C		Art. 3.2 D & 3.2 F	PE/SE or EIT	
b. Placement of prestressing tendons and anchorages	--	P	P	Sec. 10.8 & 10.9	Art. 3.6	PE/SE or EIT	
c. Placement of reinforcement, connectors, and anchor bolts	--	P	C	Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7	Art. 3.2 E & 3.4	PE/SE or EIT	
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	--	P	P		Art. 2.6 B & 2.4K.1.b	PE/SE or EIT	
3. Verify compliance of the following during construction:							
1. Materials and procedures with the approved submittals	--	P	P		Art. 1.5	PE/SE or EIT	
2. Placement of masonry units and mortar joint construction	--	P	P		Art. 3.3 B	PE/SE or EIT	
3. Size and location of structural members	--	P	P		Art. 3.3 G	PE/SE or EIT	
4. Type, size, and location of anchors, including other details of anchorage of masonry to structural member, frames, or other construction	--	P	C	Sec. 1.2.1(e), 6.2.1, & 6.3.1		PE/SE or EIT	
5. Type, size, and location of veneer ties & movement joints	P (3)	P (3)	--	Sec. 13.2	Art. 3.4 E	PE/SE or EIT	
6. Installation of adhered veneer	P (3)	P (3)	--	Sec. 13.3	Art. 3.3 D	PE/SE or EIT	
7. Welding of reinforcement	--	C	C	Sec. 6.1.7.3		PE/SE or EIT	
8. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C)	--	P	P		Art. 1.8 C & D	PE/SE or EIT	
9. Application and measurement of prestressing force	--	C	C		Art. 3.6 B	PE/SE or EIT	
10. Placement of grout	--	C	C		Art. 3.5	PE/SE or EIT	
11. Placement of prestressing grout for bonded tendons	--	C	C		3.6 C	PE/SE or EIT	
12. Placement of AAC masonry units and construction of thin-bed mortar joints	--	C (1) / P (2)	C		Art. 3.3 B.8 & 3.3 G.1.b	PE/SE or EIT	
4. Observe preparation of grout specimens, mortar specimens, and/or prisms	--	P	C		Art. 1.4 B.2.a.3, B.2.b.3, B.2.c.3, B.3, & B.4	PE/SE or EIT	

(1) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(2) Required after the first 5000 square feet (465 square meter) of AAC masonry.

(3) Periodic inspection of veneers is required when the height of the veneer exceeds 60 ft (18.3 m) above grade plane.

Structural Schedule of Special Inspections
SOILS

VERIFICATION AND INSPECTION IBC Section 1705.6	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION	TASK COMPLETED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	Y	P			PE/GE, EIT or ETT	
2. Verify excavations are extended to proper depth and have reached proper material.	Y	P			PE/GE, EIT or ETT	
3. Perform classification and testing of compacted fill materials.	Y	P			PE/GE, EIT or ETT	
4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Y	C			PE/GE, EIT or ETT	
5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly	Y	P			PE/GE, EIT or ETT	

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
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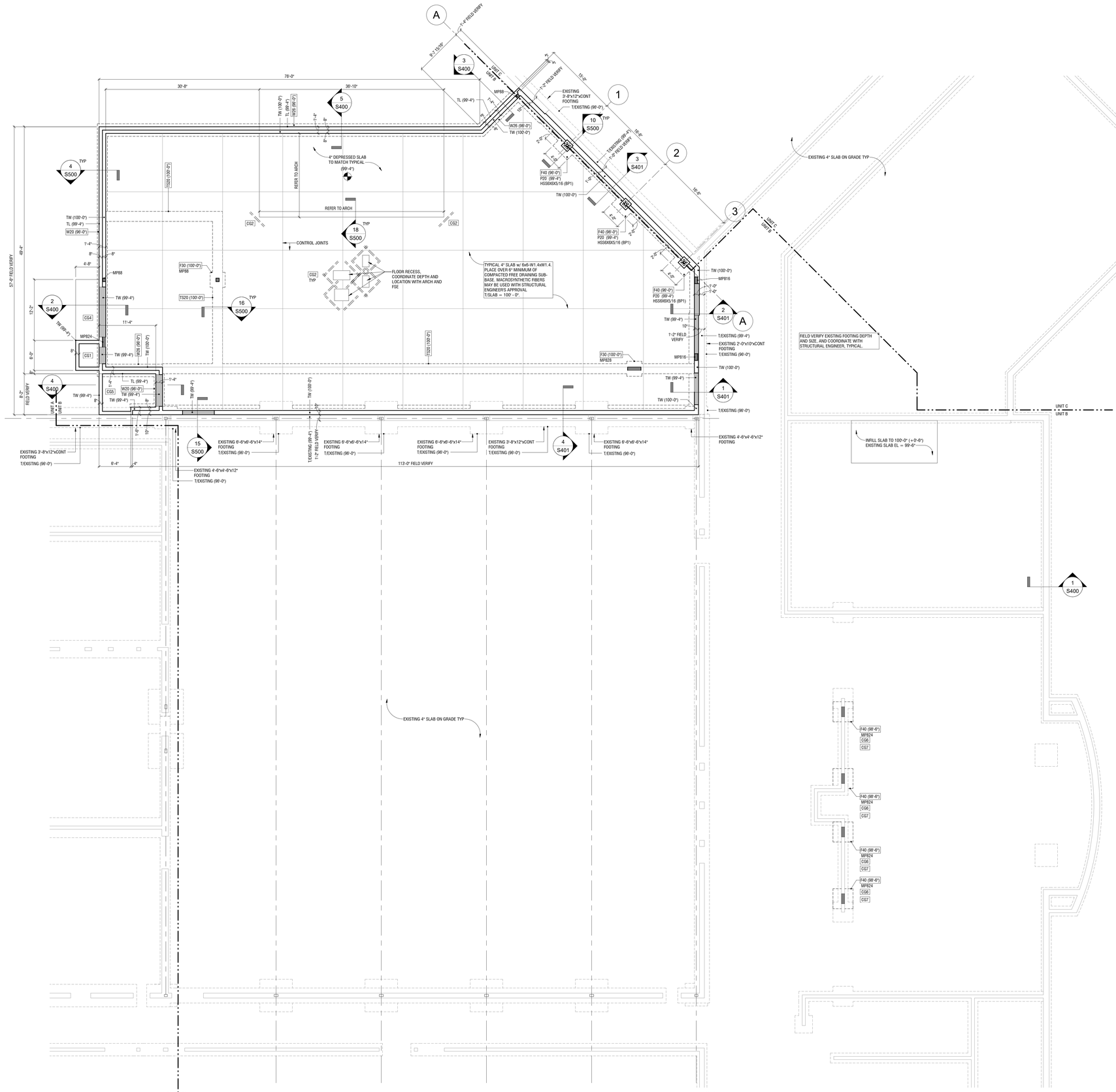
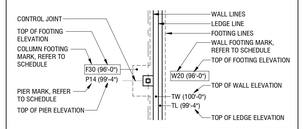


1 FOUNDATION PLAN - UNIT B
S100B 1/8" = 1'-0"

CONCRETE FOUNDATION LEGEND

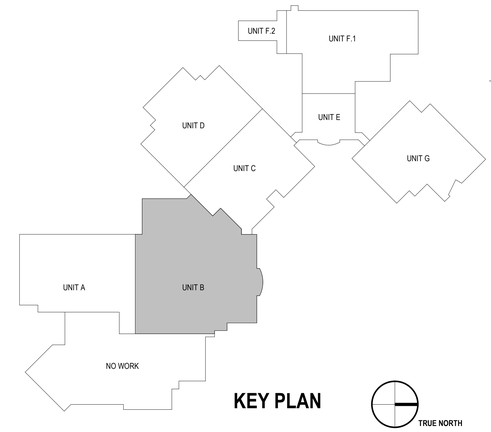


CONCRETE FOUNDATION PLAN NOTES

1. REFER TO GENERAL NOTES FOR ADDITIONAL STRUCTURAL NOTES AND FOUNDATION REQUIREMENTS.
2. ELEVATION 100'-0" ON STRUCTURAL PLANS CORRESPONDS TO FINISHED FLOOR ELEVATION ON CIVIL PLANS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL PLANS. COORDINATE DISCREPANCIES WITH ARCHITECT AND STRUCTURAL ENGINEER.
4. REFER TO COLUMN BASE PLATE SCHEDULE FOR BASE PLATE INFORMATION.
5. REFER TO FRAMING PLANS FOR MASONRY WALL REINFORCING.
6. ALL FOOTINGS AND SLABS TO BEAR ON COMPETENT NATIVE SOILS AND/OR STRUCTURAL FILL. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION, STRUCTURAL FILL, FOOTING DRAINS AND OTHER REQUIREMENTS.
7. VERIFY LOCATION OF UNDERGROUND UTILITIES PRIOR TO ANY DRILLING OR EXCAVATION.
8. COORDINATE AND VERIFY LOCATION OF ALL UNDERGROUND WORK PRIOR TO POURING CONCRETE SLAB.
9. CONTRACTOR TO BE AWARE OF POSSIBLE NEED OF OVER EXCAVATION OF POOR SOILS. SOIL BEARING CAPACITY IS TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER PRIOR TO POURING ANY FOUNDATIONS. REFER TO GEOTECHNICAL REPORT FOR AREA DEFINITION.
10. CONTRACTOR TO BE AWARE OF POSSIBLE BEDROCK EXCAVATION. BEDROCK SUITABILITY FOR BEARING IS TO BE FIELD VERIFIED BY GEOTECHNICAL ENGINEER PRIOR TO POURING ANY FOUNDATIONS. REFER TO GEOTECHNICAL REPORT FOR AREA DEFINITION.
11. GENERAL CONTRACTOR TO COORDINATE THE INSTALLATION OF A CONCRETE ENCASED GROUNDING ELECTRODE WITH ELECTRICAL CONTRACTOR AND CONCRETE CONTRACTOR IF REQUIRED. COORDINATE WITH ELECTRICAL CONTRACTOR

CONCRETE FOUNDATION PLAN KEYED NOTES

KEY NOTE	DESCRIPTION
CG1	5" THICK REINFORCED CONCRETE STOOP SLAB. REFER TO TYPICAL DETAIL.
CG2	(2) #4x4'-0" LONG BARS TYP AT RE-ENTRANT CORNERS. LOCATE IN CENTER OF SLAB.
CG3	(8) #4x4'-0" LONG BARS CENTERED ON COLUMN. LOCATE IN CENTER OF SLAB. REFER TO 11/S500
CG4	6" THICK REINFORCED CONCRETE APRON SLAB. REFER TO SECTION AT OVERHEAD APRON DETAIL, SEE ARCH AND CIVIL FOR SPECIFICATIONS.
CG5	6" THICK CONCRETE STOOP SLAB. PROVIDE #5 EPOXY COATED AT 8" o/c. REFER TO TYPICAL DETAIL.
CG6	CUT BACK EXISTING SLAB ON GRADE AND FOUNDATIONS BELOW. REFER TO SLAB ON GRADE INFILL DETAIL.
CG7	PROVIDE PINWHEEL CONTROL JOINTS IN SLAB ON GRADE INFILL.



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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Moline • Saint Paul
www.brayarch.com
REYN ENGINEERING
507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
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UNIT B - FOUNDATION PLAN

Sheet Number:
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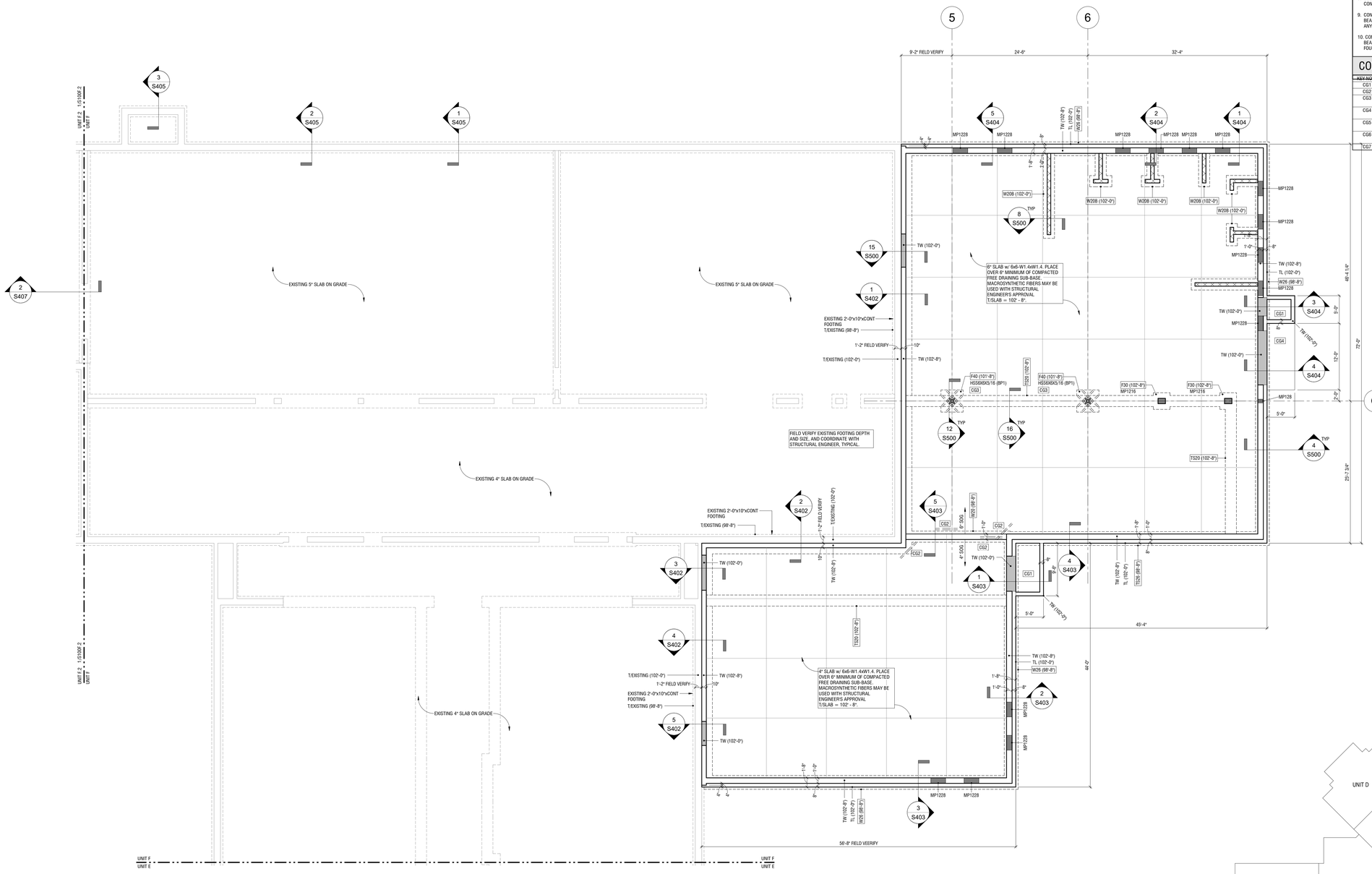
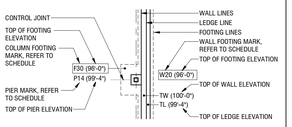


1 S100F.1 FOUNDATION PLAN - UNIT F
1/8" = 1'-0"

CONCRETE FOUNDATION LEGEND



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CONCRETE FOUNDATION PLAN KEYED NOTES

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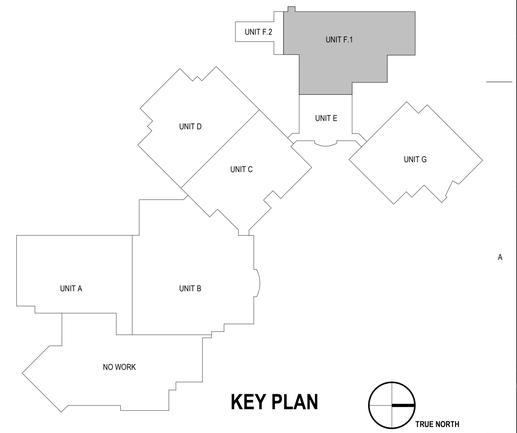
CG7	PROVIDE PINWHEEL CONTROL JOINTS IN SLAB ON GRADE INFILL.

KEY PLAN



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MILWAUKEE, WI 53204
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UNIT F - FOUNDATION PLAN

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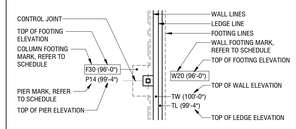
CONCRETE FOUNDATION LEGEND



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CONCRETE FOUNDATION PLAN KEYED NOTES

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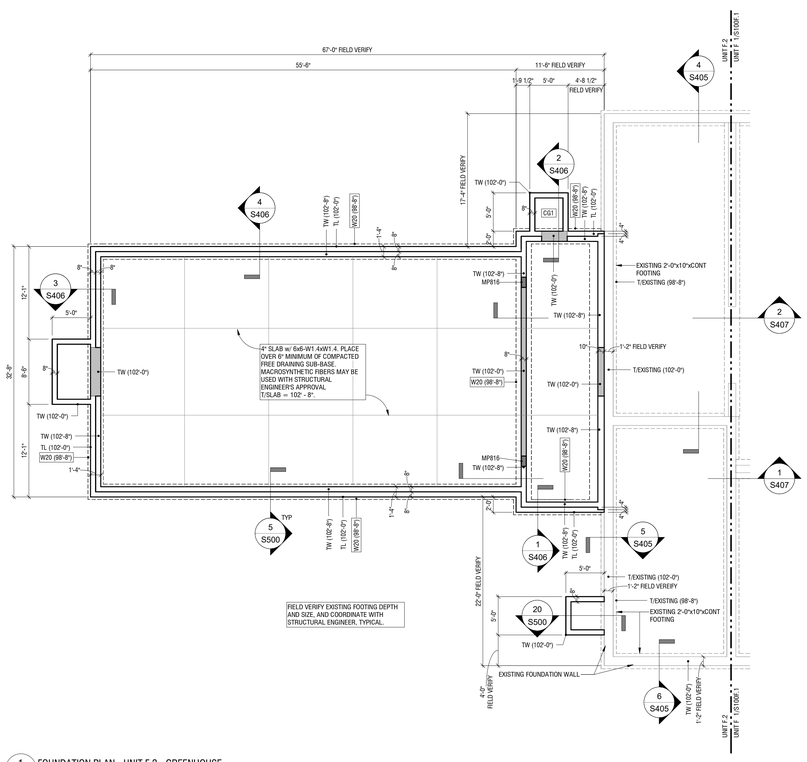
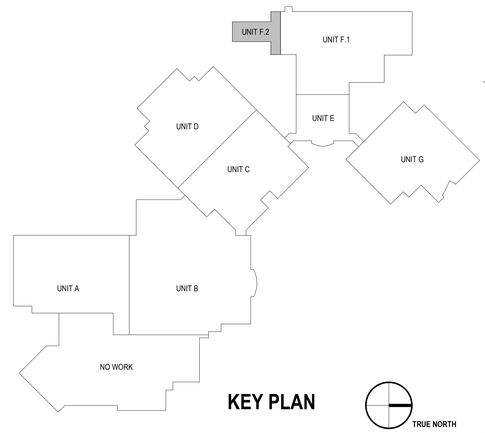


1 S100F.2 FOUNDATION PLAN - UNIT F.2 - GREENHOUSE 1/8" = 1'-0"



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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
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507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
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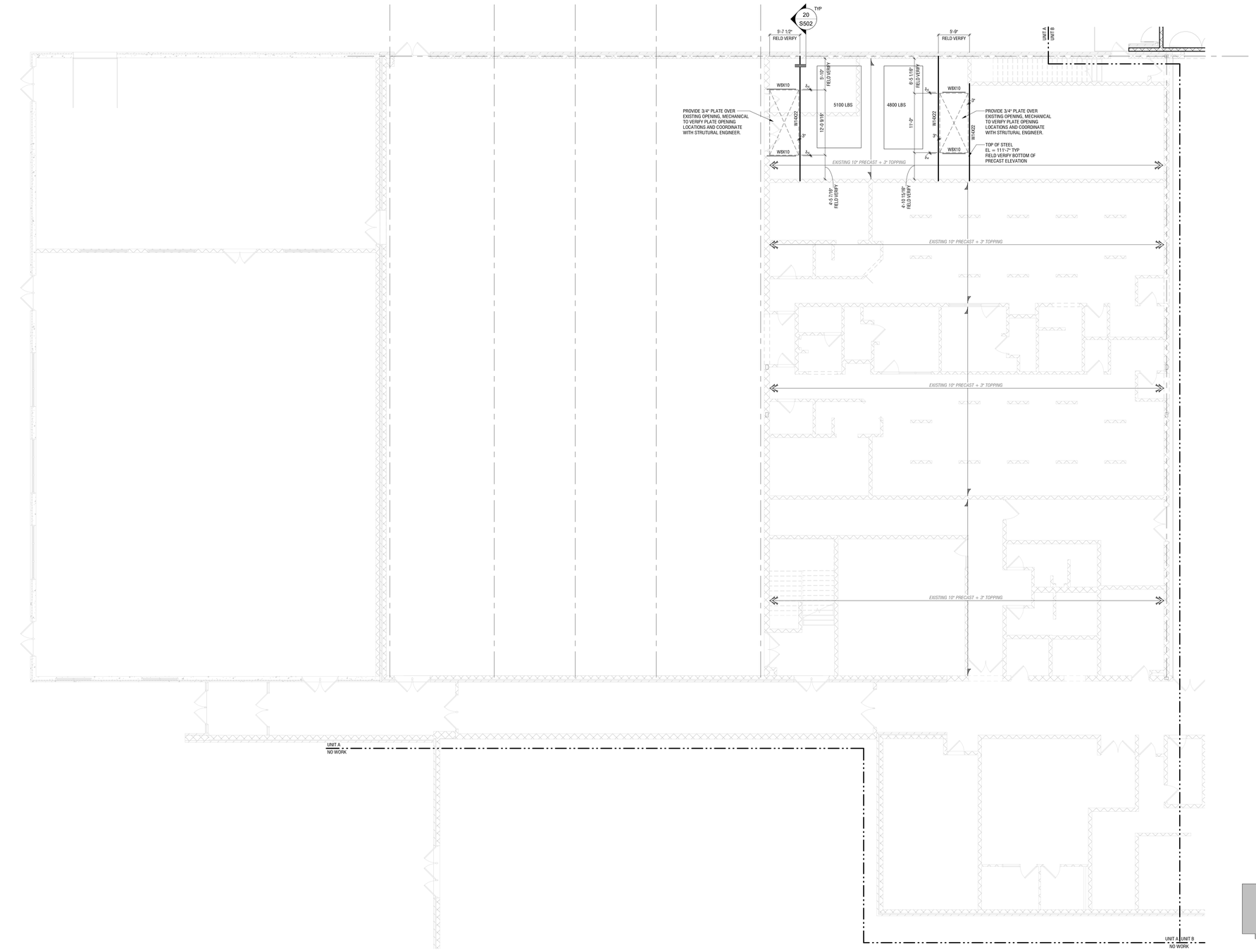
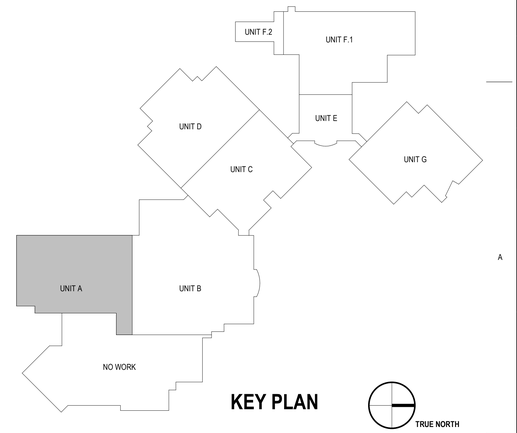


1 S101A FLOOR FRAMING PLAN - UNIT A
1/8" = 1'-0"



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Milwaukee
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Sheet Title:
UNIT A - FLOOR FRAMING PLAN

Sheet Number:
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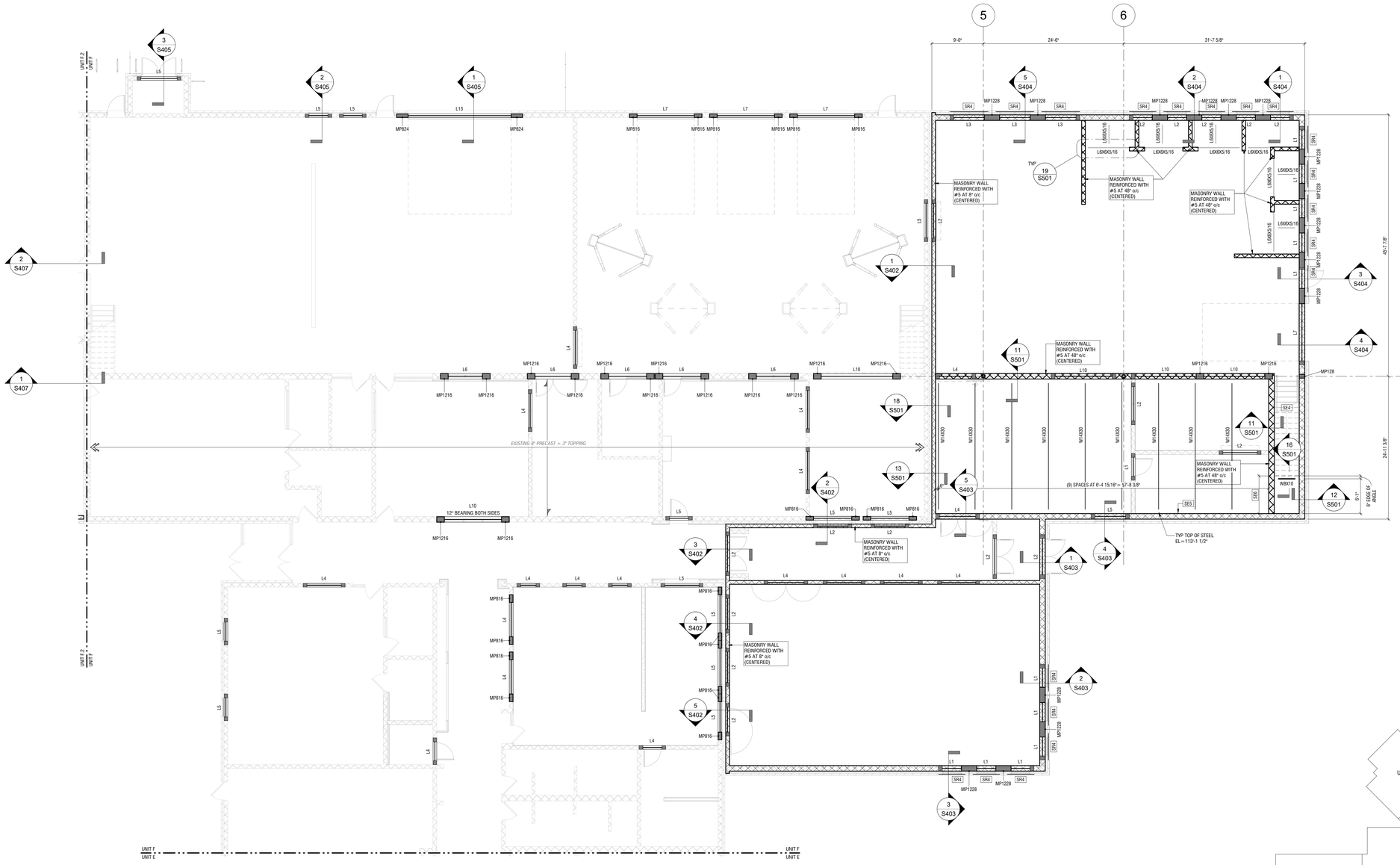
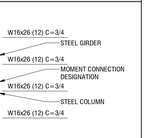


1 MEZZANINE FRAMING PLAN - UNIT F
S101F.1 1/8" = 1'-0"

STEEL FLOOR FRAMING LEGEND



STEEL FLOOR FRAMING PLAN NOTES

1. REFER TO ARCHITECTURAL PLANS FOR STAIR FRAMING, DIMENSIONS AND CONFIGURATION.
2. TOP OF STEEL SHALL BE AS NOTED ON PLANS.
3. FLOOR CONSTRUCTION SHALL CONSIST OF 4" NORMAL WEIGHT CONCRETE ON 1-1/2", 19 GAGE GALVANIZED COMPOSITE STEEL DECK, TOTAL SLAB THICKNESS = 5 1/2". DECK TO BE PLACED IN A MINIMUM THREE SPAN CONTINUOUS LAY-UP. SLAB SHALL HAVE 6x6-W2.1xW2.1 WELDED WIRE MESH LOCATED 3/4" FROM TOP OF CONCRETE. DECK SHALL BE ATTACHED TO FRAMING MEMBERS WITH 5/8" DIA PUDDLE WELDS AT A 36/4 PATTERN WITH (2) #12 TEK SCREWS PER SPAN.
4. MACRO SYNTHETIC FIBERS MAY BE USED IN CONCRETE WITH STRUCTURAL ENGINEER'S APPROVAL. FIBERS SHALL BE MADE FROM VIRGIN POLYOLEFIN AND HAVE A MINIMUM DIAMETER BETWEEN 0.016 AND 0.05". THE MINIMUM ASPECT RATIO (LENGTH TO DIAMETER) SHALL BE 50 AND MINIMUM DOSAGE SHALL BE 4 LB/CUBIC YARD.
5. COMPOSITE FLOOR DECKS SHALL BE CAST TO WITHIN 1/2" OF DESIGNATED THICKNESS. CONTRACTOR PLACING CONCRETE SHALL BE AWARE THAT THEORETICAL CONCRETE VOLUME MAY BE LOWER THAN ACTUAL CONCRETE VOLUME.
6. STEEL IS EQUALLY SPACED BETWEEN MEMBERS UNLESS NOTED OTHERWISE.
7. BEAM CAMBER IS DESIGNATED AS "C=3/4". CAMBER IS TO BE PROVIDED AT THE MIDDLE OF THE BEAM LENGTH. ALL BEAMS ARE TO BE PLACED WITH THE CAMBER CROWN ON THE TOP OF THE BEAM. CONTRACTOR TO VERIFY IN PLACE CAMBERS ARE WITHIN AISC ALLOWABLE TOLERANCE PRIOR TO PLACEMENT OF CONCRETE. COORDINATE DISCREPANCIES WITH STRUCTURAL ENGINEER PRIOR TO CONCRETE POURS.
8. NUMBER OF STUDS FOR COMPOSITE SLABS ARE DESIGNATED AS "(12)". STUDS ARE TO BE 3/4" DIAMETERx4-1/2" LONG HEADED WELDED STUDS AND ARE TO BE WELDED EVENLY ACROSS THE LENGTH OF THE BEAM. REFER TO TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
9. MOMENT FRAMES ARE INDICATED THUSLY: ▶
10. MASONRY WALLS SHALL BE REINFORCED WITH #5 AT 40" o/c UNLESS NOTED OTHERWISE ON PLAN.
11. MASONRY WALLS SHALL BE GROUTED SOLID AT ANCHORAGE LOCATIONS, UNLESS NOTED OTHERWISE.
12. ALL VERTICAL MASONRY REINFORCEMENT SHALL RUN CONTINUOUS FROM FOUNDATION TO TOP OF WALL, UNLESS NOTED OTHERWISE.
13. REFER TO LINTEL SCHEDULE FOR MASONRY WALL LINTELS.
14. REFER TO LOOSE LINTEL SCHEDULE FOR MASONRY VENEER SUPPORT OVER OPENINGS.
15. FABRICATOR SHALL SELECT SHEAR TAB OR DOUBLE ANGLED CONNECTIONS NOT SPECIFICALLY DETAILED. WHERE REACTIONS ARE SHOWN ON PLAN, FABRICATOR MAY SELECT CONNECTIONS BASED ON THE FOLLOWING INFORMATION:
   a. REACTIONS ARE UNFACTORED AND SERVICE LEVEL.
   b. CONNECTION DESIGN SHALL BE BASED ON ALLOWABLE STRENGTH DESIGN.
   c. CODE REFERENCED EDITION OF THE AISC STEEL CONSTRUCTION MANUAL SHALL BE USED FOR CONNECTION DESIGN.

STEEL FLOOR FRAMING PLAN KEYED NOTES

KEY NOTE	DESCRIPTION
SE4	STEEL FRAMED STAIR DESIGN BY SUPPLIER. DESIGN FOR 100 PSF SUPERIMPOSED LIVE LOAD. CONNECTIONS TO MASONRY TO BE INTO SOLID GROUTED CELLS OR POCKETS. GC TO COORDINATE CONNECTIONS WITH SUPPLIER.
SE5	PROVIDE CONTINUOUS L5x5x5/16 AT FULL LENGTH OF FLOOR. SPLICE AT TOP OF BEAMS ONLY.
SE6	PROVIDE PL3/8"x4"xCONT WITH 1/2" DIAx4" HEADED STUDS AT 24" o/c AT TOP OF MASONRY WALL.

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12/19/2025

Project Number:
3705

Sheet Title:
UNIT F - FLOOR FRAMING PLAN

Sheet Number:
S101F.1

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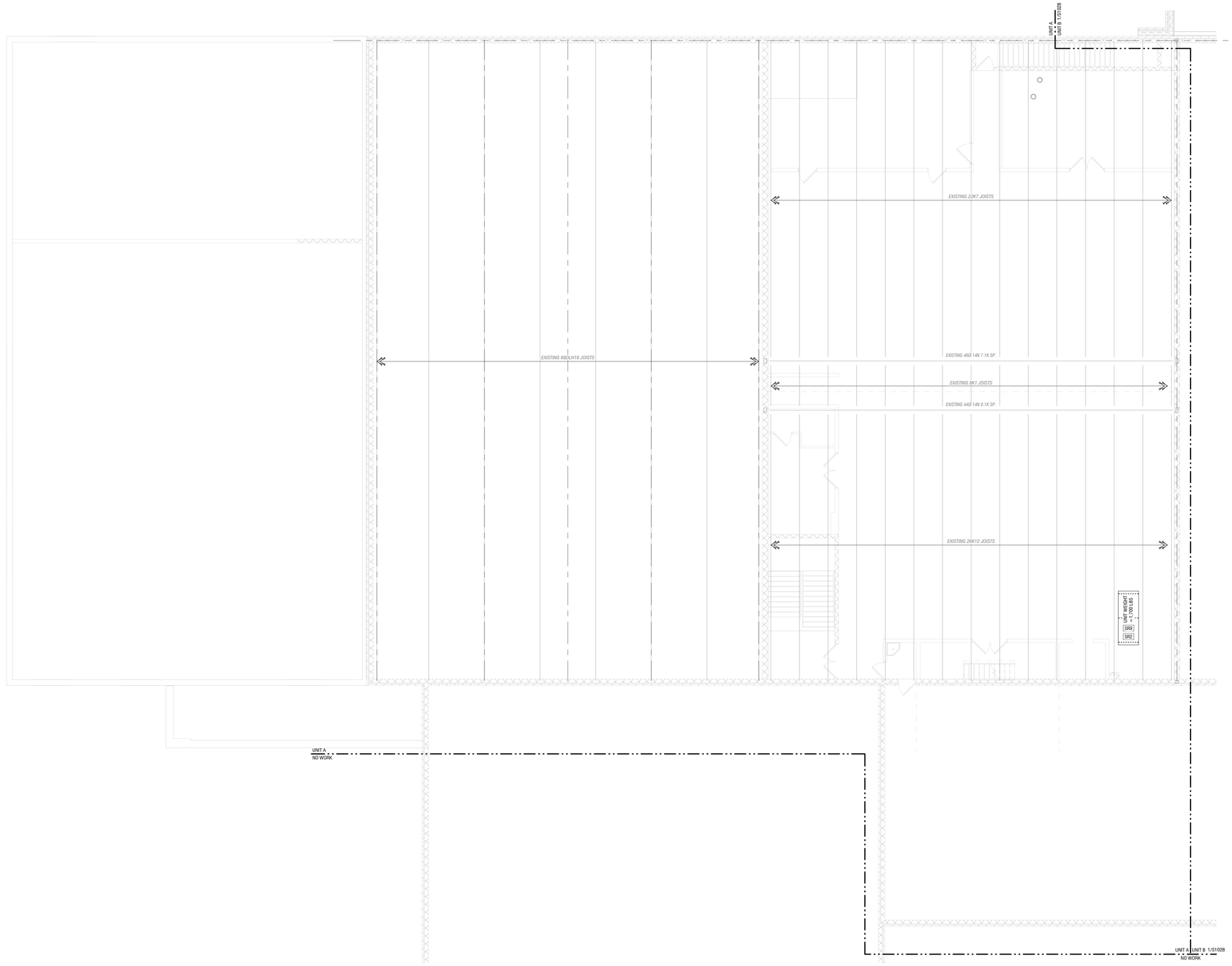
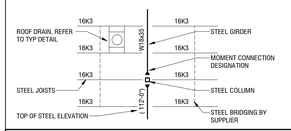


1 S102A ROOF FRAMING PLAN - UNIT A
1/8" = 1'-0"

STEEL ROOF FRAMING LEGEND

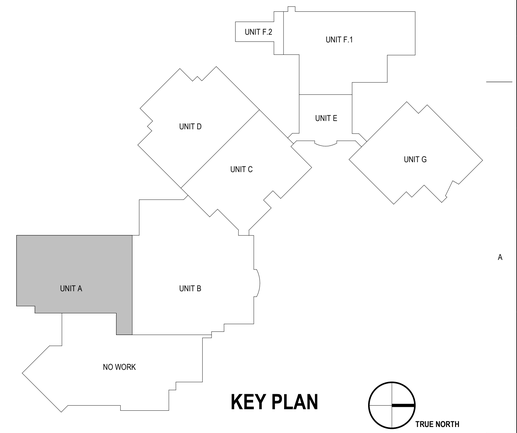


STEEL ROOF FRAMING PLAN NOTES

1. TOP OF STEEL SHALL BE AS NOTED ON PLANS.
2. ALL ROOF DECK SHALL BE 1-1/2" WIDE RIB 22 GAGE PAINTED STEEL DECK. ATTACH DECK TO EACH FRAMING MEMBER WITH 5/8" DIA PUDDLE WELD AT A 36/4 PATTERN WITH (2) #10 SIDELAP TEK SCREWS PER SPAN.
3. STEEL IS EQUALLY SPACED BETWEEN MEMBERS UNLESS NOTED OTHERWISE.
4. JOISTS SHALL BE PROVIDED WITH STANDARD SJI CAMBER UNLESS NOTED OTHERWISE.
5. JOIST BRIDGING SHALL NOT BE RUN THROUGH DECK OPENINGS.
6. REFER TO TYPICAL DETAIL FOR FRAMING AROUND DECK OPENINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SIZE OF OPENINGS WITH FABRICATOR.
7. ALL ROOF TOP EQUIPMENT (SIZE, LOCATION, ETC) SHALL BE VERIFIED WITH MECHANICAL AND ARCHITECT PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION OF MATERIALS. CONTRACTOR SHALL COORDINATE CHANGES WITH FABRICATOR, JOIST SUPPLIER AND STRUCTURAL ENGINEER. MECHANICAL EQUIPMENT SHALL BEAR ON AT LEAST (2) FRAMING MEMBERS.
8. MOMENT FRAMES ARE INDICATED THUSLY: ▶
9. MASONRY WALLS SHALL BE REINFORCED WITH #5 AT 40" o/c (CENTERED) UNLESS NOTED OTHERWISE ON PLAN.
10. MASONRY WALLS SHALL BE GROUTED SOLID AT ANCHORAGE LOCATIONS, UNLESS NOTED OTHERWISE.
11. ALL VERTICAL MASONRY REINFORCEMENT SHALL RUN CONTINUOUS FROM FOUNDATION TO TOP OF WALL, UNLESS NOTED OTHERWISE.
12. REFER TO LINTEL SCHEDULE FOR MASONRY WALL LINTELS.
13. REFER TO LOOSE LINTEL SCHEDULE FOR MASONRY VENEER SUPPORT OVER OPENINGS.
14. FABRICATOR SHALL SELECT SHEAR TAB OR DOUBLE ANGLED CONNECTIONS NOT SPECIFICALLY DETAILED. WHERE REACTIONS ARE SHOWN ON PLAN, FABRICATOR MAY SELECT CONNECTIONS BASED ON THE FOLLOWING INFORMATION:
   A. REACTIONS ARE UNFACTORED AND SERVICE LEVEL.
   B. CONNECTION DESIGN SHALL BE BASED ON ALLOWABLE STRENGTH DESIGN.
   C. CODE REFERENCED EDITION OF THE AISC STEEL CONSTRUCTION MANUAL SHALL BE USED FOR CONNECTION DESIGN.
15. ALL FIBERGLASS BOLTS TO BE STRONGWELL FIBREBOLT OR APPROVED OTHER.

STEEL ROOF FRAMING PLAN KEYED NOTES

KEY NOTE	DESCRIPTION
SR1	CONTINUOUS JOIST BRIDGING AT TOP AND BOTTOM JOIST CHORDS. BRIDGING IS SCHEMATIC AND SHALL BE AS REQUIRED BY SJI. JOIST UPLIFT = 8 PSF.
SR2	ROOF TOP UNIT w/ LOAD AS SHOWN ON PLAN (INCLUDES CURB). FINAL SIZE AND LOCATION SHALL BE COORDINATED w/ STRUCTURAL ENGINEER AND JOIST SUPPLIER. PROVIDE C6x13 UNDER UNIT LAID PERPENDICULAR TO JOISTS. REFER TO STANDARD EQUIPMENT SUPPORT DETAIL.
SR3	L2x2x1/4 FROM BEAM BOTTOM FLANGE TO NEAREST JOIST TOP CHORD PANEL POINT.
SR4	LOOSE LINTEL. REFER TO SCHEDULE.
SR5	CHORD REINFORCING. REFER TO CHORD REINFORCING DETAIL.
SR7	ROOF DRAIN. REFER ROOF OPENING FRAMES DETAIL.
SR8	PROVIDE X-BRIDGING AT BRIDGING TERMINATION.
SR9	PROVIDE ROOF DECK SUPPORT PER17/SS02 .
SR10	MECHANICAL TO COORDINATE OPENING LOCATIONS AND SIZES IN STEEL GRATING WITH STRUCTURAL ENGINEER.
SR11	PROVIDE 4" SLOPED JOIST SEAT.



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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Moline • Saint Paul
www.brayarch.com
REYN ENGINEERING
507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
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WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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UNIT A - ROOF FRAMING PLAN

Sheet Number:
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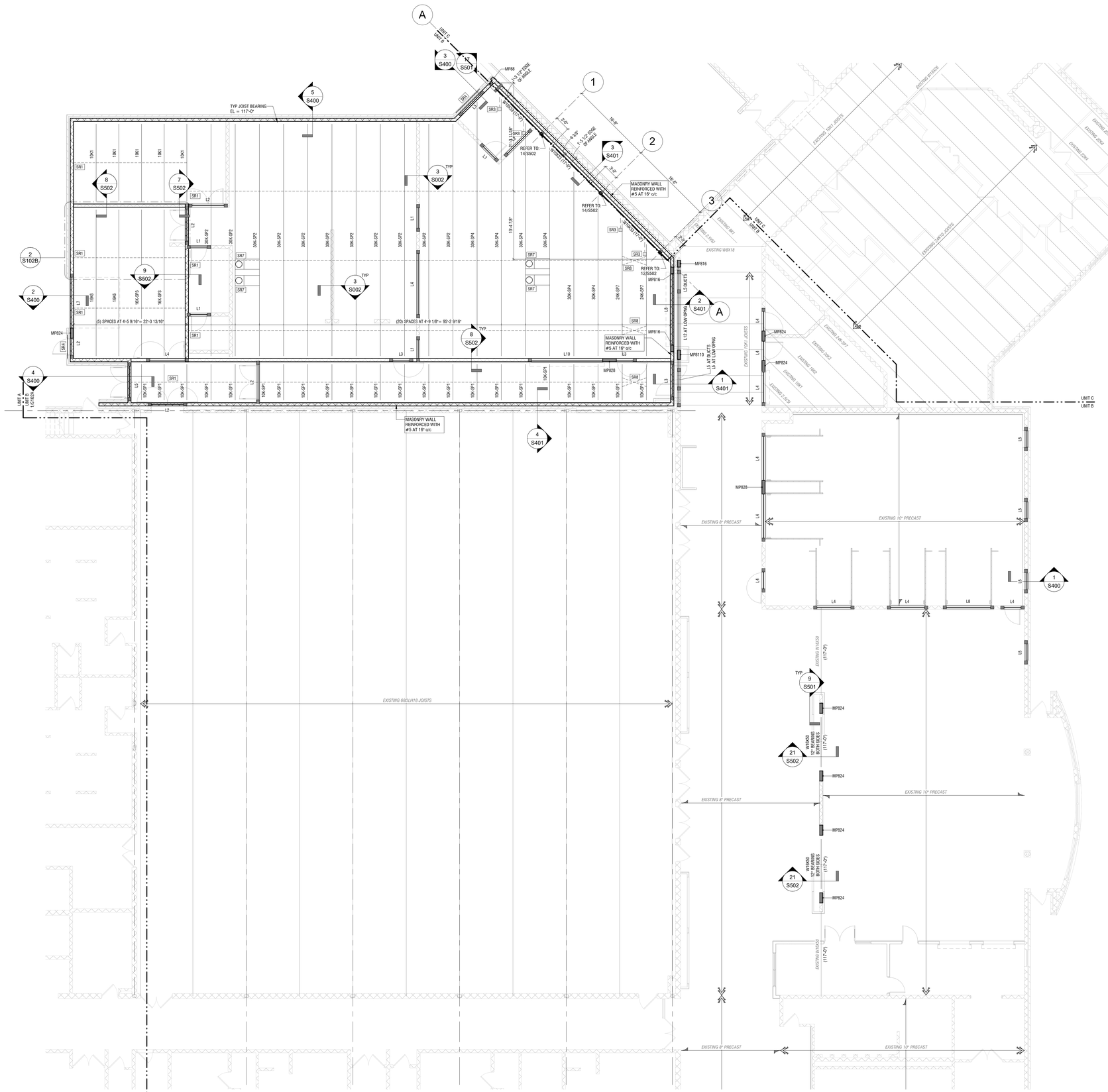
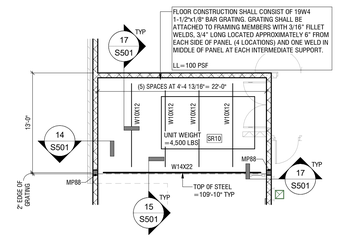


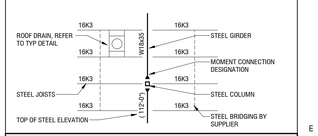
1/S102A UNIT A + UNIT B

1 S102B ROOF FRAMING PLAN - UNIT B
1/8" = 1'-0"



2 S102B FLOOR FRAMING PLAN - MECHANICAL MEZZANINE
1/8" = 1'-0"

STEEL ROOF FRAMING LEGEND



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STEEL ROOF FRAMING PLAN KEYED NOTES

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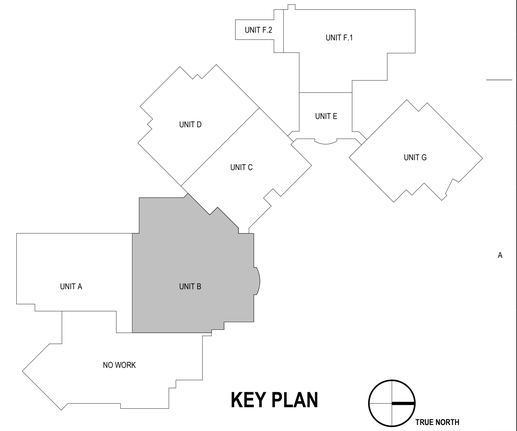
SR7	ROOF DRAIN. REFER ROOF OPENING FRAMES DETAIL.
SR8	PROVIDE X-BRIDGING AT BRIDGING TERMINATION.
SR9	PROVIDE ROOF DECK SUPPORT PER17/S502 .
SR10	MECHANICAL TO COORDINATE OPENING LOCATIONS AND SIZES IN STEEL GRATING WITH STRUCTURAL ENGINEER.
SR11	PROVIDE 4" SLOPED JOIST SEAT.



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Milwaukee
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T: 414.226.0200
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UNIT B - ROOF FRAMING PLAN

Sheet Number:
S102B

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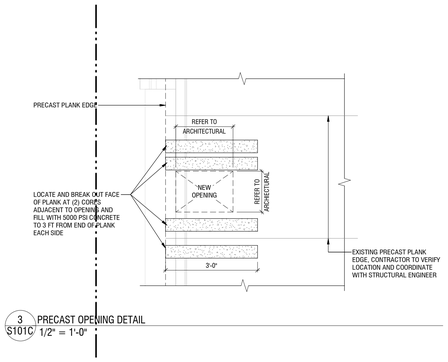
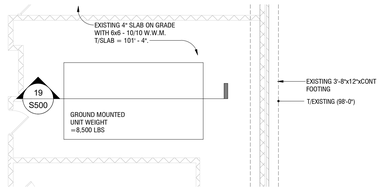
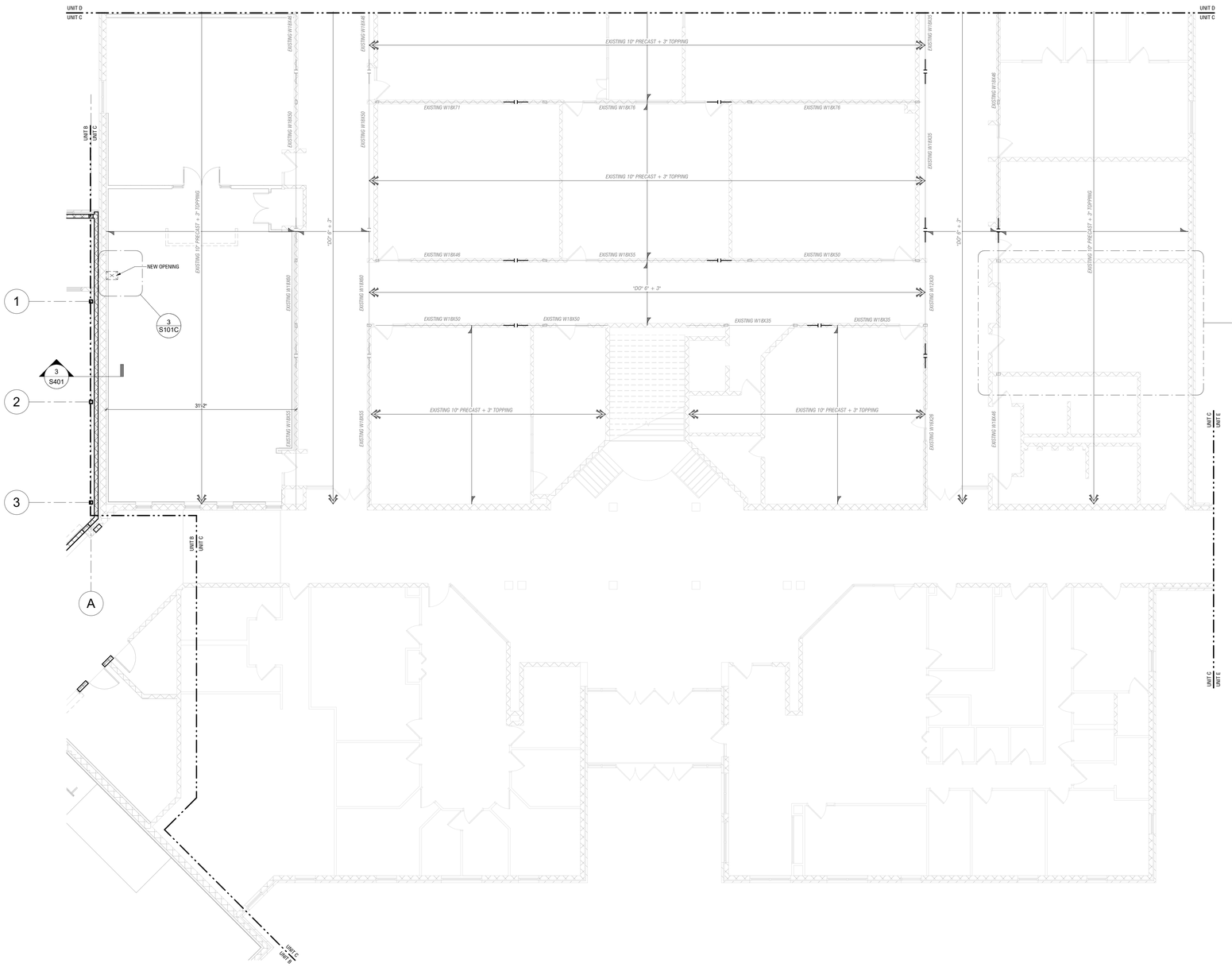


3 S101C PRECAST OPENING DETAIL
1/2" = 1'-0"

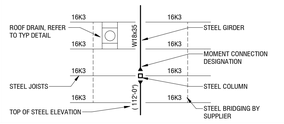


2 S101C FOUNDATION PLAN AT AHU - UNIT C
1/8" = 1'-0"



1 S101C FLOOR FRAMING PLAN - UNIT C
1/8" = 1'-0"

STEEL ROOF FRAMING LEGEND



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   C. CODE REFERENCED EDITION OF THE AISC STEEL CONSTRUCTION MANUAL SHALL BE USED FOR CONNECTION DESIGN.
15. ALL BEAMS ARE NOT TO BE STRONGER THAN SPECIFIED OR APPROVED OTHER.

STEEL ROOF FRAMING PLAN KEYED NOTES

KEY NOTE	DESCRIPTION
SR1	CONTINUOUS JOIST BRIDGING AT TOP AND BOTTOM JOIST CHORDS. BRIDGING IS SCHEMATIC AND SHALL BE AS REQUIRED BY SJI. JOIST UPLIFT = 8 PSF.
SR2	ROOF TOP UNIT w/ LOAD AS SHOWN ON PLAN (INCLUDES CURB). FINAL SIZE AND LOCATION SHALL BE COORDINATED w/ STRUCTURAL ENGINEER AND JOIST SUPPLIER. PROVIDE DIA13 UNDER UNIT LAID PERPENDICULAR TO JOISTS. REFER TO STANDARD EQUIPMENT SUPPORT DETAIL.
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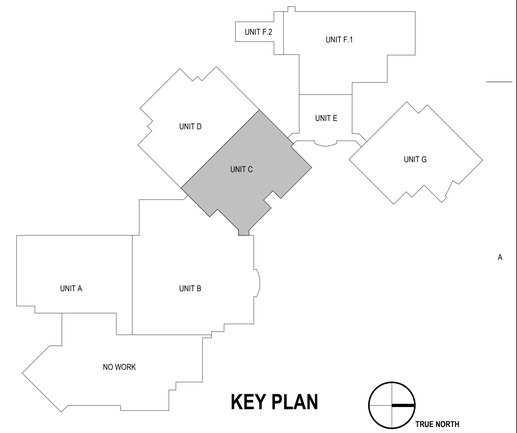

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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com
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UNIT C - STUCTURAL PLANS

Sheet Number:
S101C

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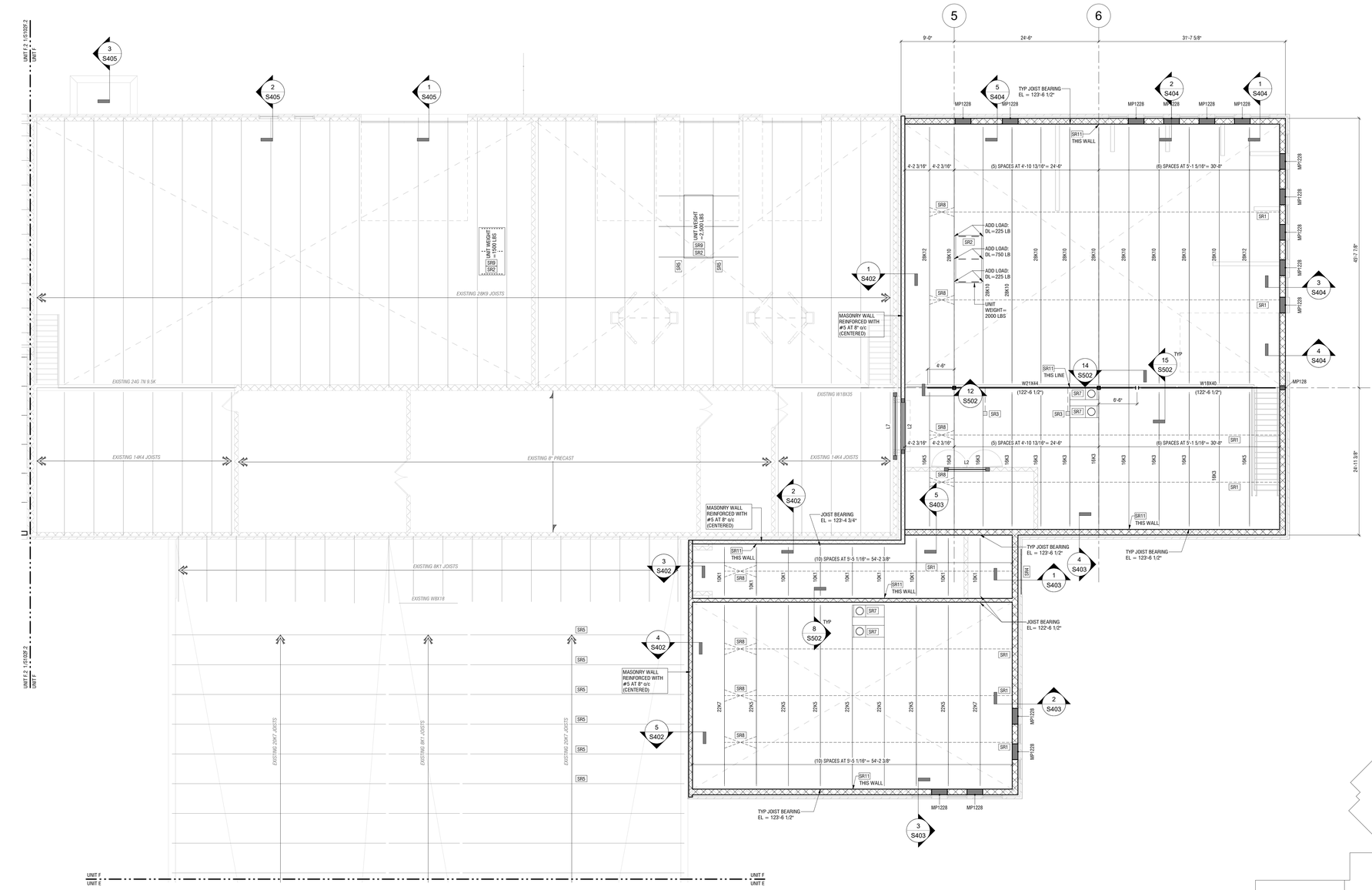
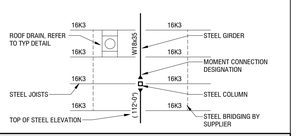


1 S102F.1 ROOF FRAMING PLAN - UNIT F
1/8" = 1'-0"

STEEL ROOF FRAMING LEGEND



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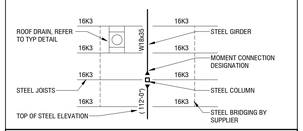

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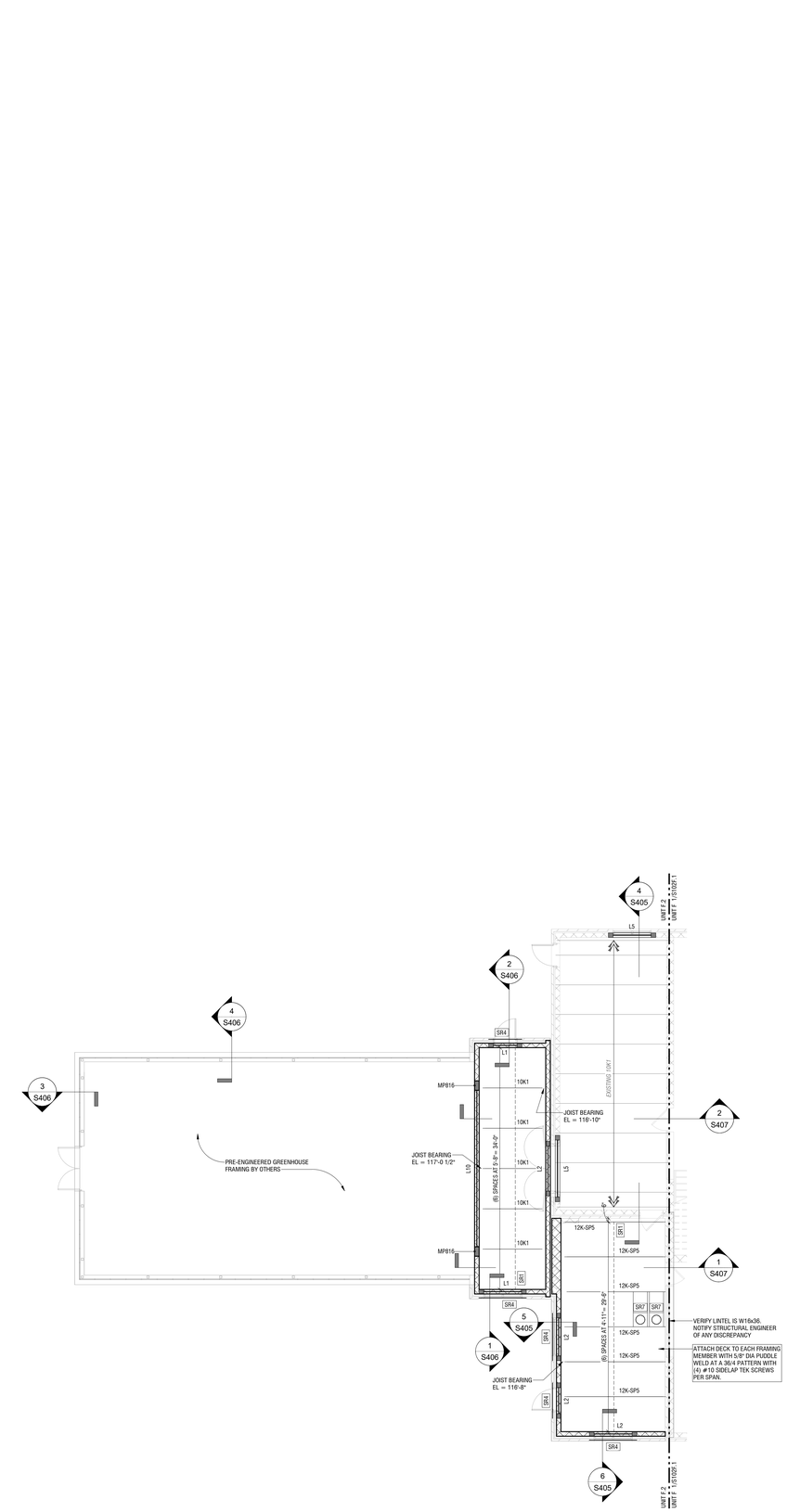
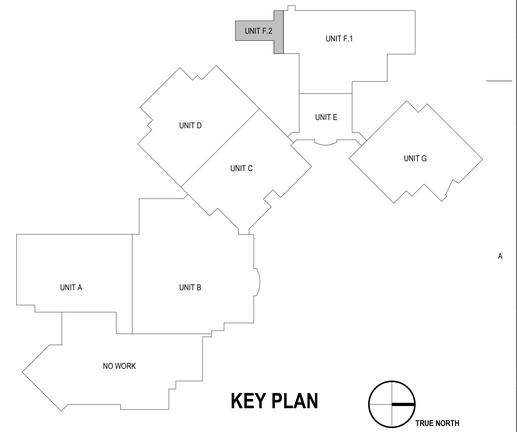
2. ALL ROOF DECK SHALL BE 1-1/2" WIDE RIB 22 GAGE PAINTED STEEL DECK. ATTACH DECK TO EACH FRAMING MEMBER WITH 5/8" DIA PUDDLE WELD AT A 36/4 PATTERN WITH (2) #10 SIDELAP TEK SCREWS PER SPAN.
3. STEEL IS EQUALLY SPACED BETWEEN MEMBERS UNLESS NOTED OTHERWISE.
4. JOISTS SHALL BE PROVIDED WITH STANDARD SJI CAMBER UNLESS NOTED OTHERWISE.
5. JOIST BRIDGING SHALL NOT BE RUN THROUGH DECK OPENINGS.
6. REFER TO TYPICAL DETAIL FOR FRAMING AROUND DECK OPENINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SIZE OF OPENINGS WITH FABRICATOR.
7. ALL ROOF TOP EQUIPMENT (SIZE, LOCATION, ETC) SHALL BE VERIFIED WITH MECHANICAL AND ARCHITECT PRIOR TO PREPARATION OF SHOP DRAWINGS AND FABRICATION OF MATERIALS. CONTRACTOR SHALL COORDINATE CHANGES WITH FABRICATOR, JOIST SUPPLIER AND STRUCTURAL ENGINEER. MECHANICAL EQUIPMENT SHALL BEAR ON AT LEAST (2) FRAMING MEMBERS.
8. MOMENT FRAMES ARE INDICATED THUSLY: ▶
9. MASONRY WALLS SHALL BE REINFORCED WITH #5 AT 40" o/c (CENTERED) UNLESS NOTED OTHERWISE ON PLAN.
10. MASONRY WALLS SHALL BE GROUTED SOLID AT ANCHORAGE LOCATIONS, UNLESS NOTED OTHERWISE.
11. ALL VERTICAL MASONRY REINFORCEMENT SHALL RUN CONTINUOUS FROM FOUNDATION TO TOP OF WALL, UNLESS NOTED OTHERWISE.
12. REFER TO LINTEL SCHEDULE FOR MASONRY WALL LINTELS.
13. REFER TO LOOSE LINTEL SCHEDULE FOR MASONRY VENEER SUPPORT OVER OPENINGS.
14. FABRICATOR SHALL SELECT SHEAR TAB OR DOUBLE ANGLED CONNECTIONS NOT SPECIFICALLY DETAILED. WHERE REACTIONS ARE SHOWN ON PLAN, FABRICATOR MAY SELECT CONNECTIONS BASED ON THE FOLLOWING INFORMATION:
    A. REACTIONS ARE UNFACTORED AND SERVICE LEVEL.
    B. CONNECTION DESIGN SHALL BE BASED ON ALLOWABLE STRENGTH DESIGN.
    C. CODE REFERENCED EDITION OF THE AISC STEEL CONSTRUCTION MANUAL SHALL BE USED FOR CONNECTION DESIGN.
15. ALL FIBERGLASS BOLTS TO BE STRONGWELL FIBREBOLT OR APPROVED OTHER.

STEEL ROOF FRAMING PLAN KEYED NOTES

KEY NOTE	DESCRIPTION
SR1	CONTINUOUS JOIST BRIDGING AT TOP AND BOTTOM JOIST CHORDS. BRIDGING IS SCHEMATIC AND SHALL BE AS REQUIRED BY SJI. JOIST UPLIFT = 8 PSF.
SR2	ROOF TOP UNIT w/ LOAD AS SHOWN ON PLAN (INCLUDES CURB). FINAL SIZE AND LOCATION SHALL BE COORDINATED w/ STRUCTURAL ENGINEER AND JOIST SUPPLIER. PROVIDE C6x13 UNDER UNIT LAID PERPENDICULAR TO JOISTS. REFER TO STANDARD EQUIPMENT SUPPORT DETAIL.
SR3	L2x2x1/4 FROM BEAM BOTTOM FLANGE TO NEAREST JOIST TOP CHORD PANEL POINT.
SR4	LOOSE LINTEL. REFER TO SCHEDULE.
SR5	CHORD REINFORCING. REFER TO CHORD REINFORCING DETAIL.
SR7	ROOF DRAIN. REFER ROOF OPENING FRAMES DETAIL.
SR8	PROVIDE X-BRIDGING AT BRIDGING TERMINATION.
SR9	PROVIDE ROOF DECK SUPPORT PER17.ISSD2 .
SR10	MECHANICAL TO COORDINATE OPENING LOCATIONS AND SIZES IN STEEL GRATING WITH STRUCTURAL ENGINEER.
SR11	PROVIDE 4" SLOPED JOIST SEAT.



1 S102F.2 ROOF FRAMING PLAN - UNIT F.2 - GREENHOUSE
1/8" = 1'-0"



KEY PLAN

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
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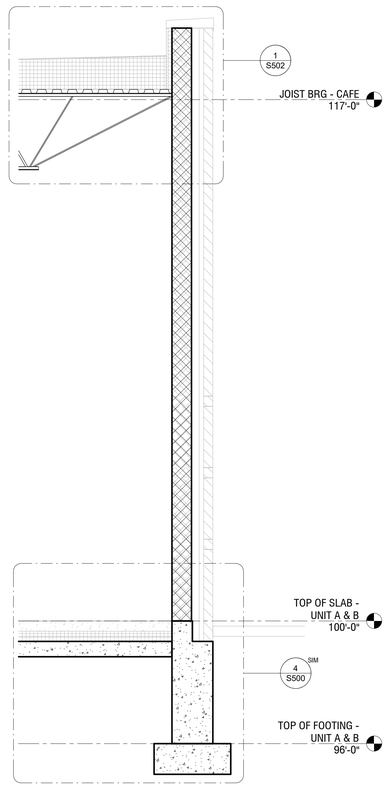
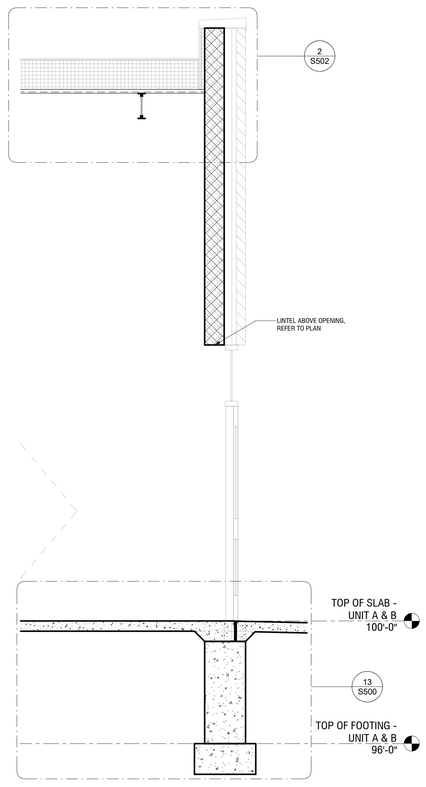
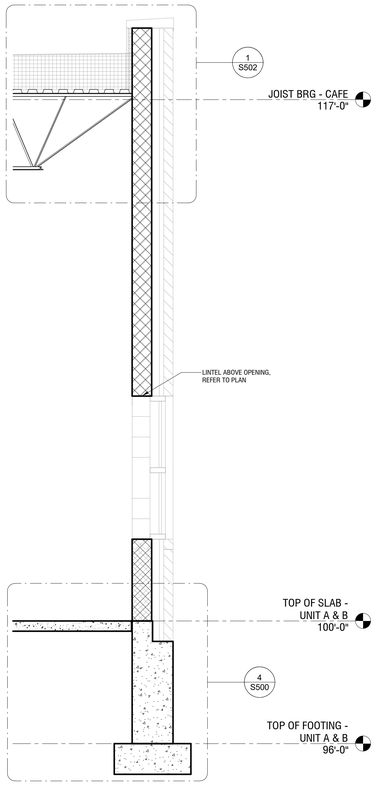


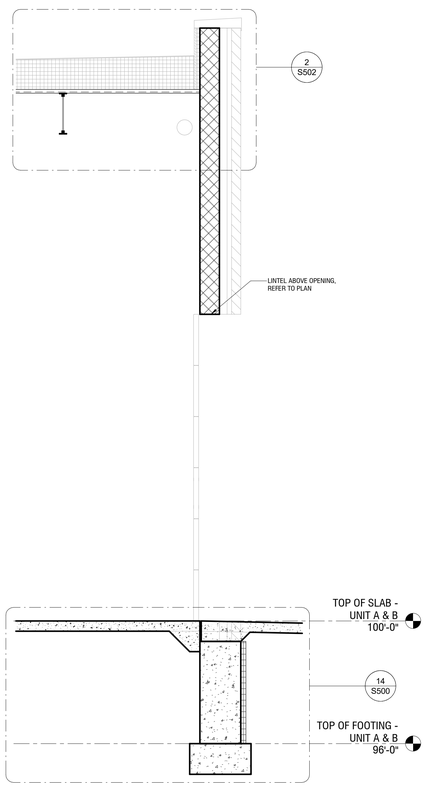
5 S400 WALL SECTION - FREEZER
1/2" = 1'-0"



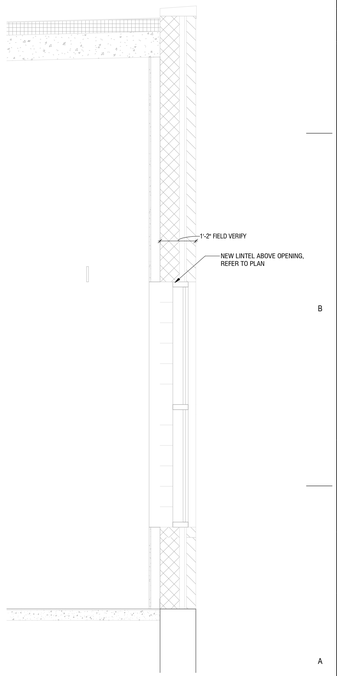
4 S400 WALL SECTION - ENTRANCE
1/2" = 1'-0"



3 S400 WALL SECTION - WINDOW
1/2" = 1'-0"



2 S400 WALL SECTION - OVERHEAD DOOR
1/2" = 1'-0"



1 S400 WALL SECTION - EXISTING
1/2" = 1'-0"

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Milwaukee, Wisconsin 53204
T: 414.226.0200

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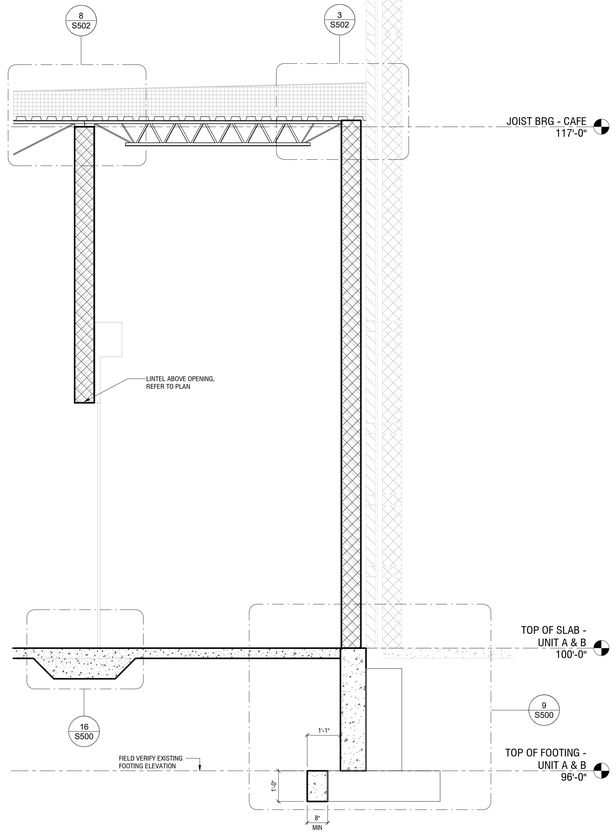
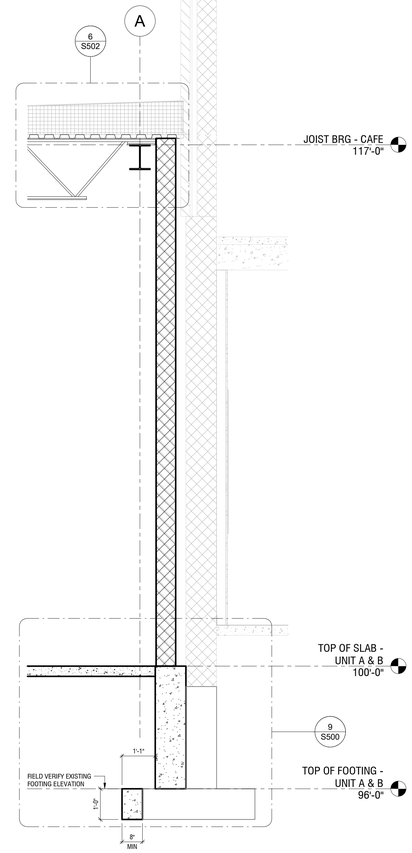
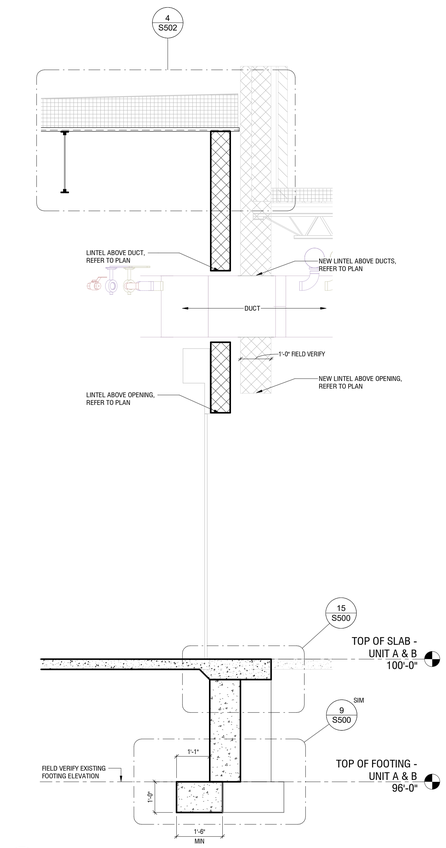


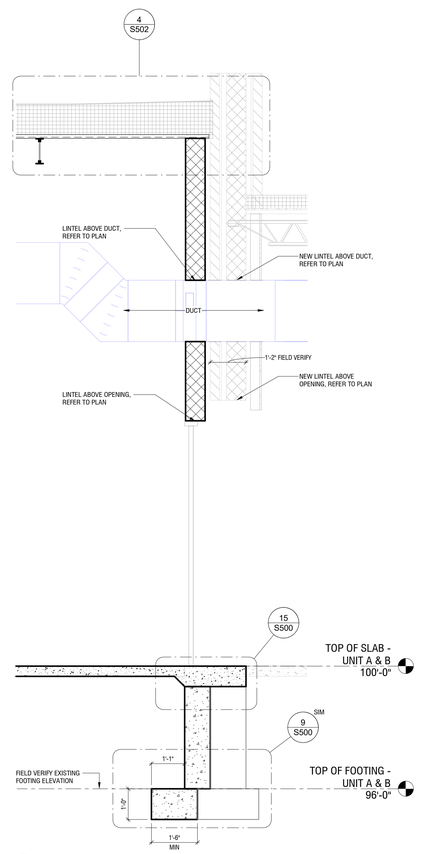
4 S401 WALL SECTION - FW - B ROOF
1/2" = 1'-0"



3 S401 WALL SECTION - FW - C ROOF
1/2" = 1'-0"



2 S401 WALL SECTION - FW - COILING DOOR
1/2" = 1'-0"



1 S401 WALL SECTION - FW - FIRE DOOR
1/2" = 1'-0"

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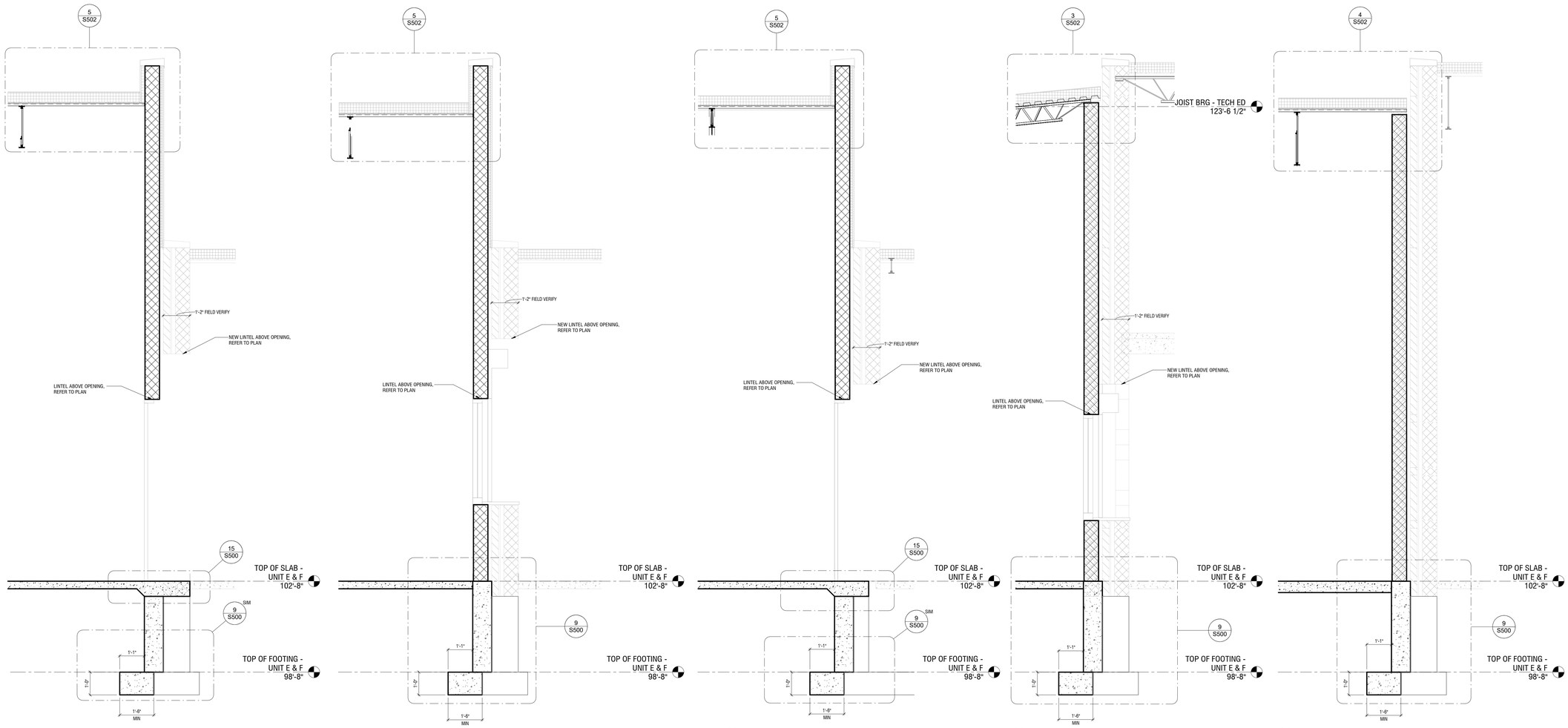

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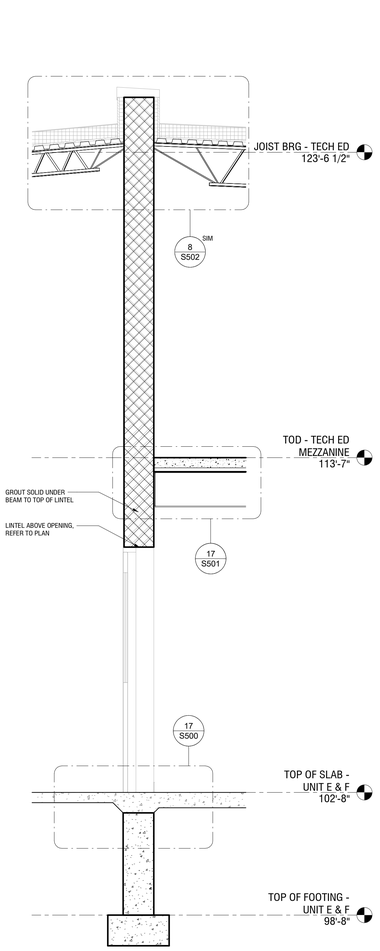
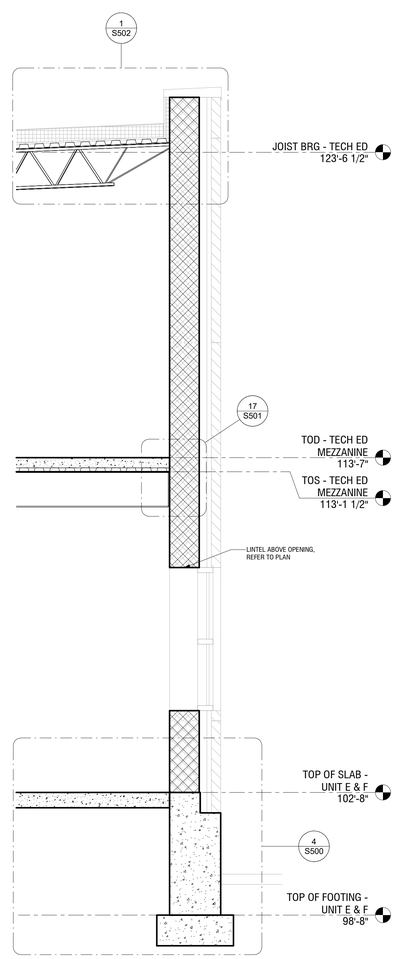


5 S403 WALL SECTIONS - CLASSROOM2
1/2" = 1'-0"



4 S403 WALL SECTION - CLASSROOM
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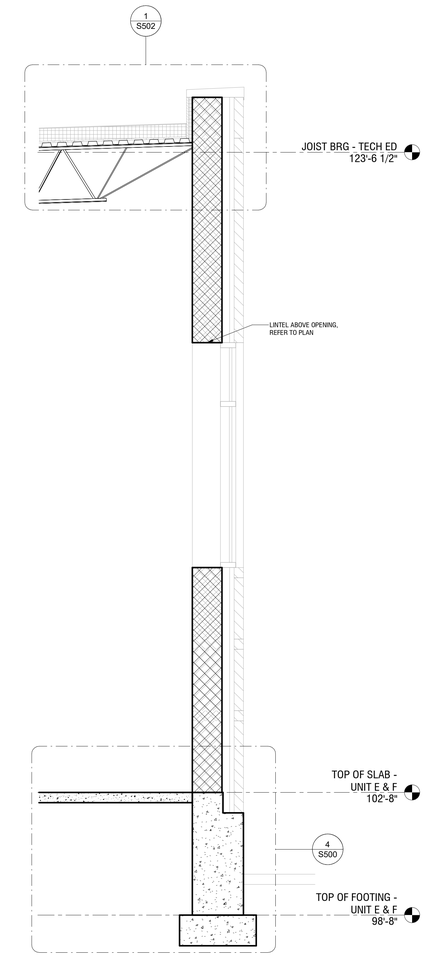
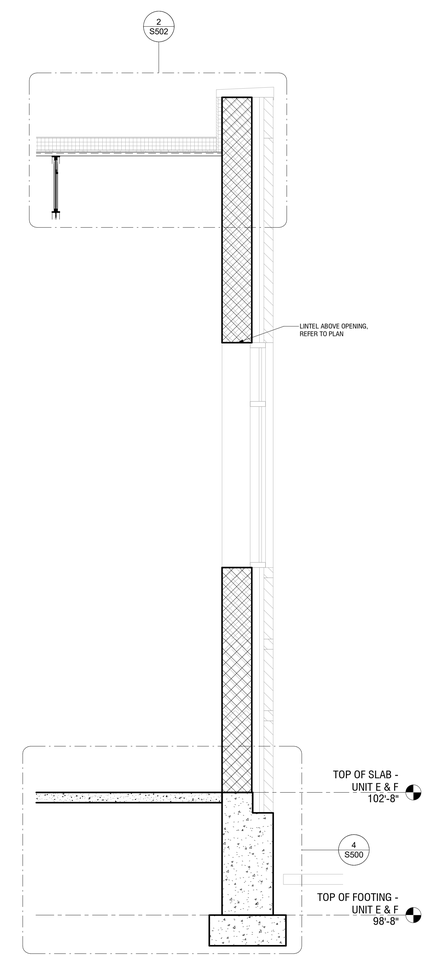
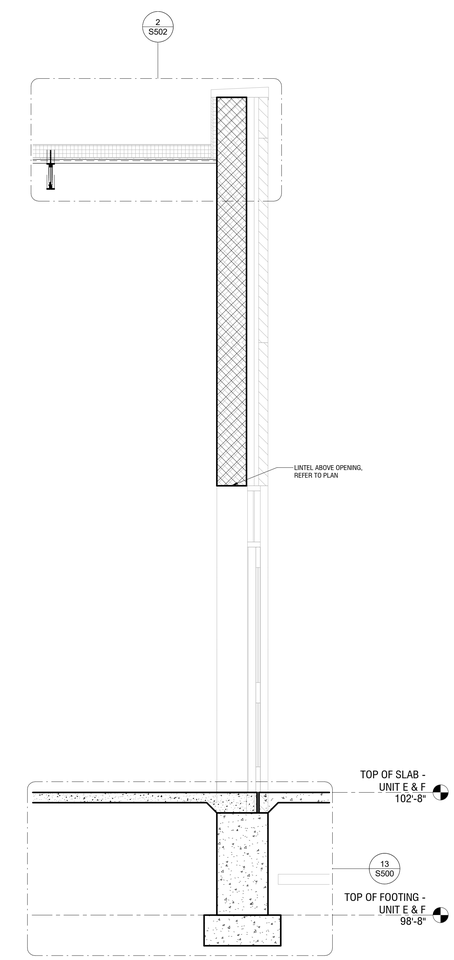


3 S403 WALL SECTION - ROBOTICS
1/2" = 1'-0"



2 S403 WALL SECTION - ROBOTICS - WINDOW
1/2" = 1'-0"



1 S403 UNIT F - WALL SECTION - ENTRANCE
1/2" = 1'-0"

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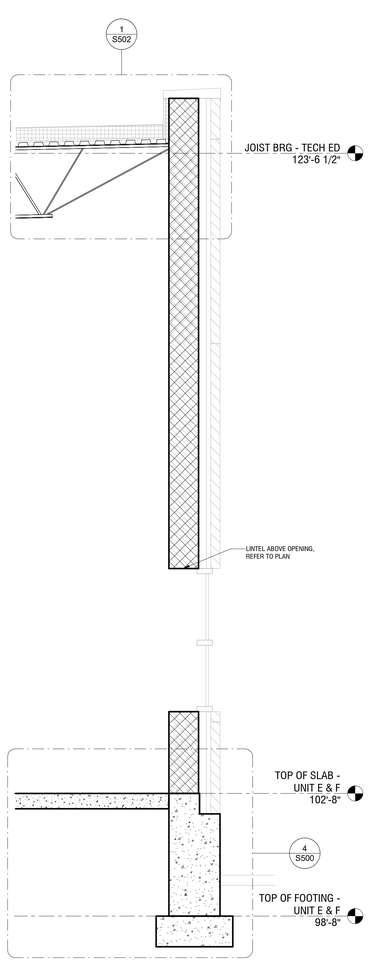

5 S404 UNIT F - TYPICAL WALL SECTION
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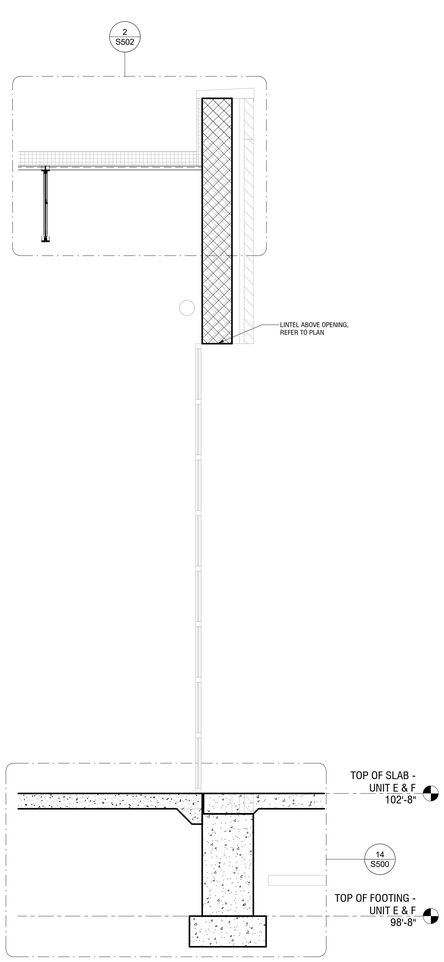
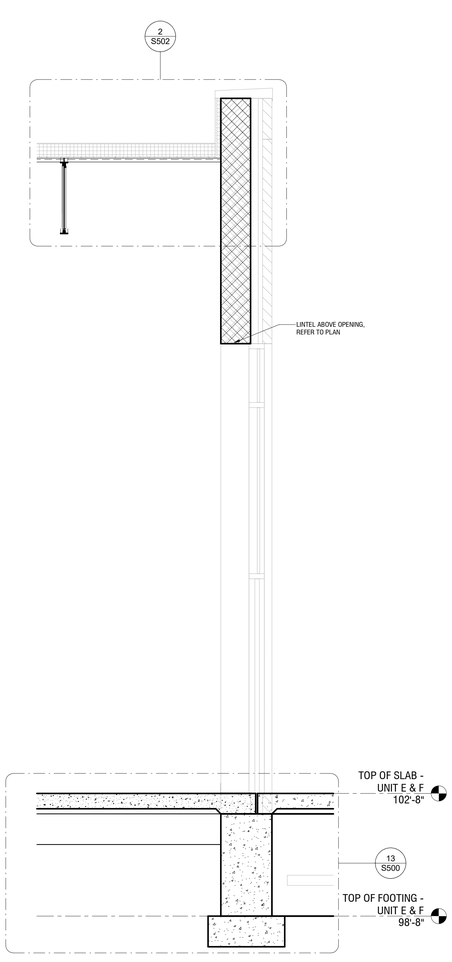


4 S404 WALL SECTION - OVHD DOOR
1/2" = 1'-0"



3 S404 WALL SECTION - METALS ENTRANCE
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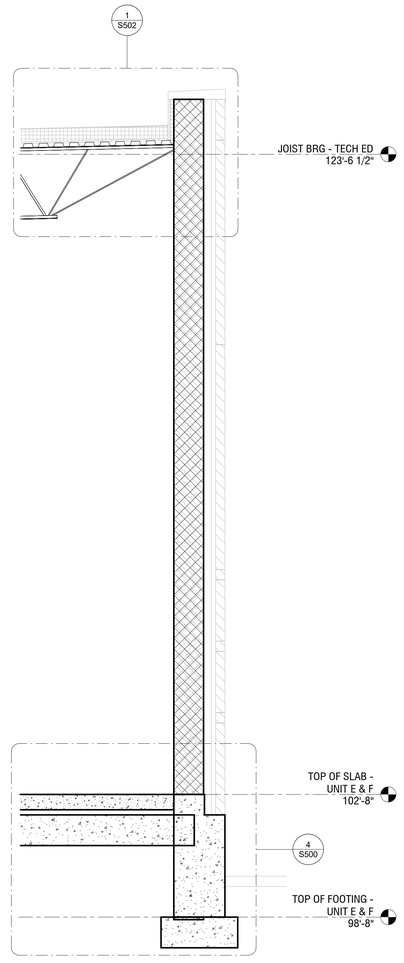
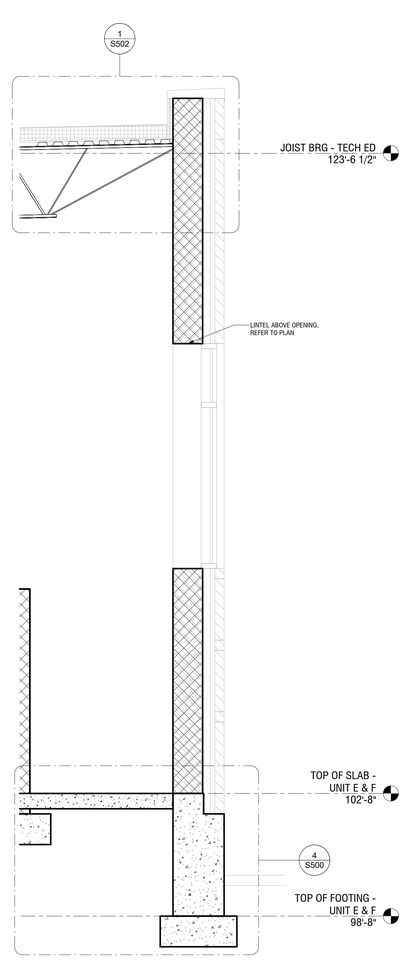


2 S404 UNIT F - SECTION - TECH ED - OVH
1/2" = 1'-0"



1 S404 WALL SECTION - TECH ED - DOOR
1/2" = 1'-0"

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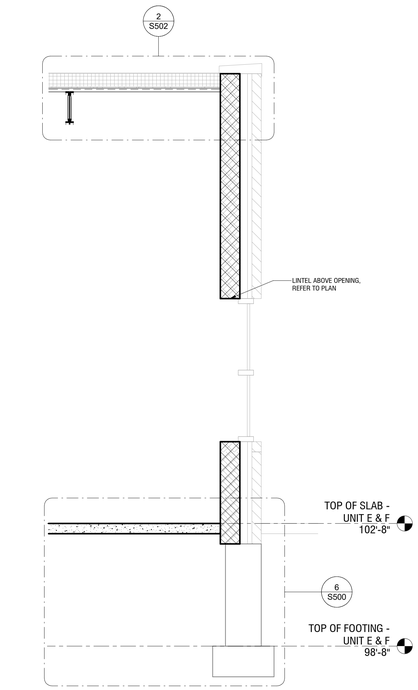
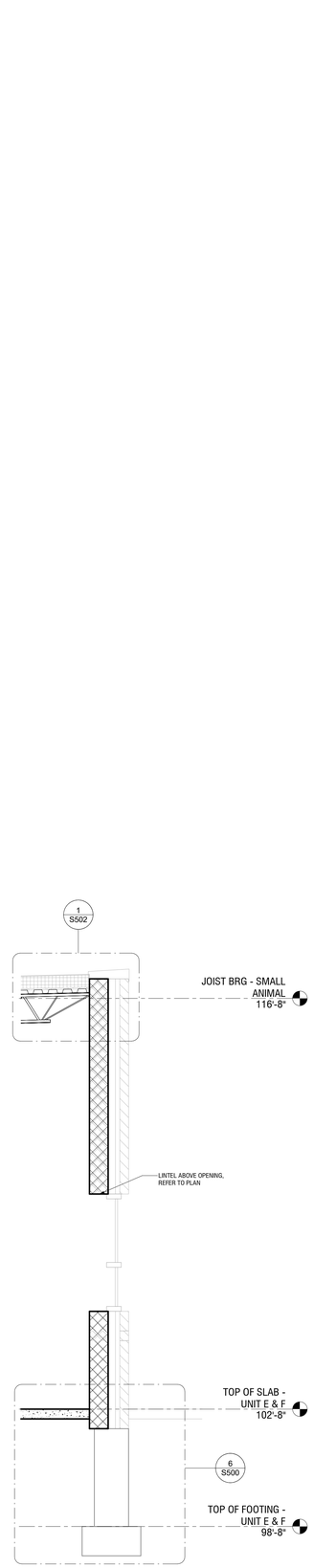


6 S405 UNIT F WALL SECTION - SMALL ANIMALS
1/2" = 1'-0"



5 S405 WALL SECTION - SMALL ANIMALS
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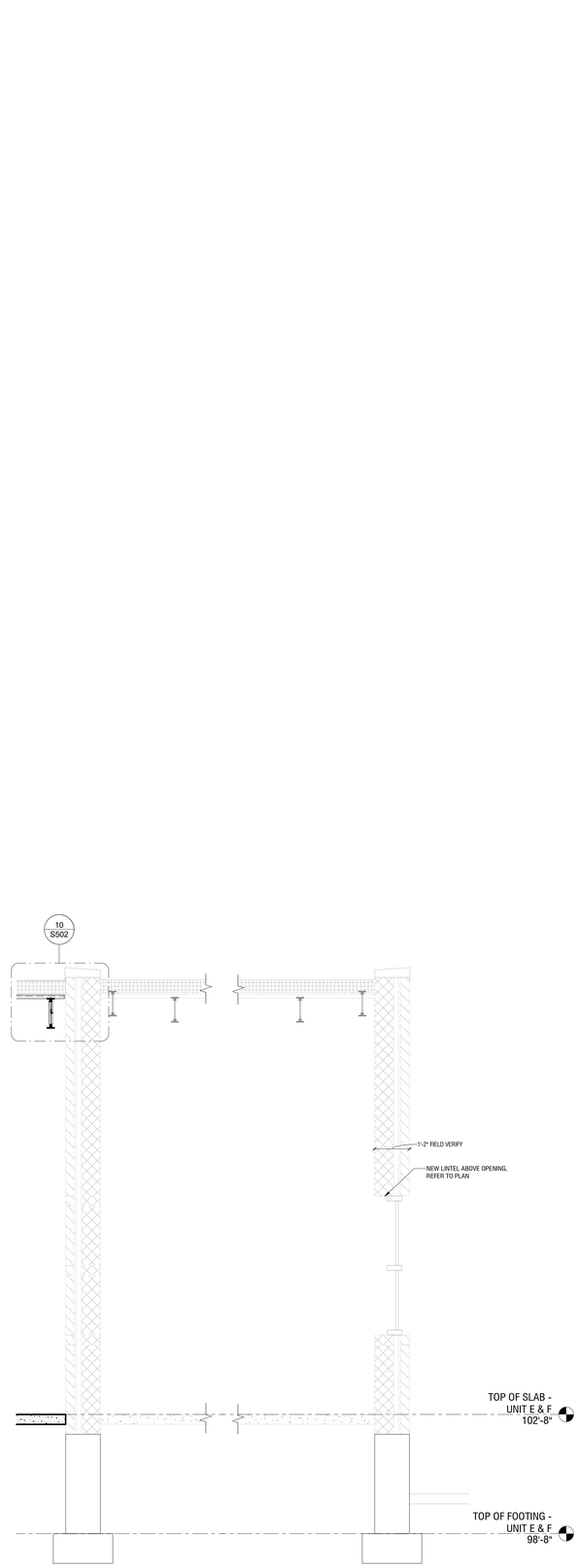

4 S405 WALL SECTION - EXIST -SF
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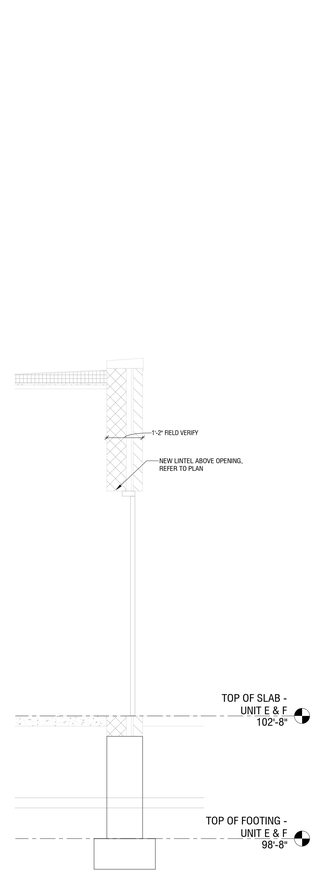
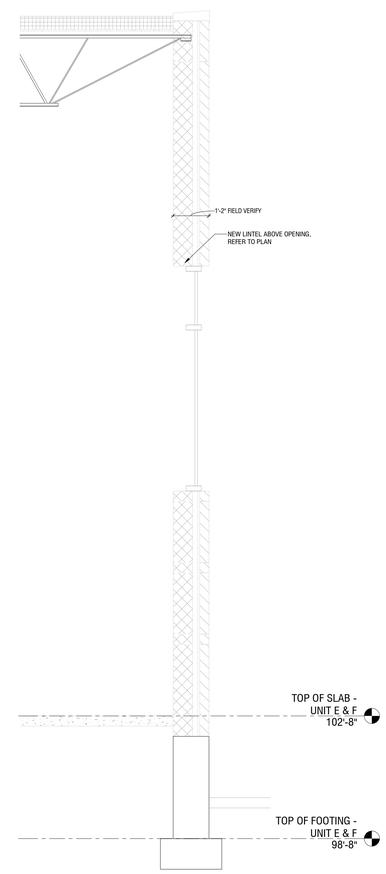


3 S405 WALL SECTION - EXIST - DOOR
1/2" = 1'-0"



2 S405 WALL SECTION - EXIST - HI - SF
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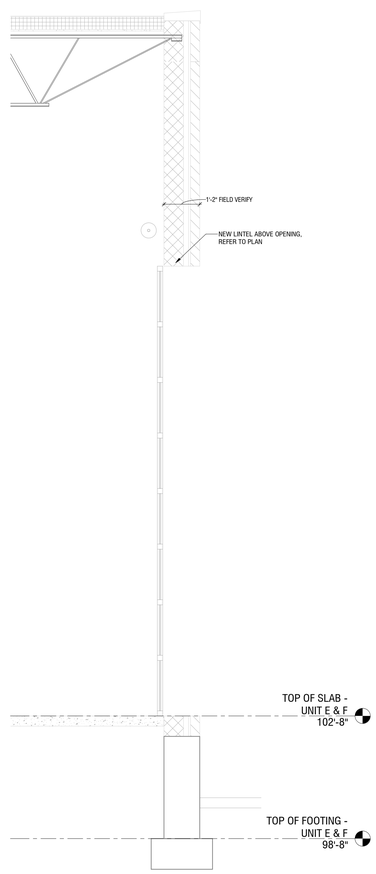

1 S405 WALL SECTION - EXIST - OVHD DOOR
1/2" = 1'-0"

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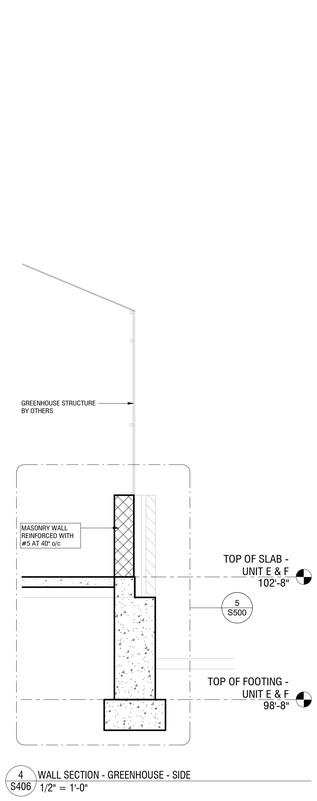

4 S406 WALL SECTION - GREENHOUSE - SIDE
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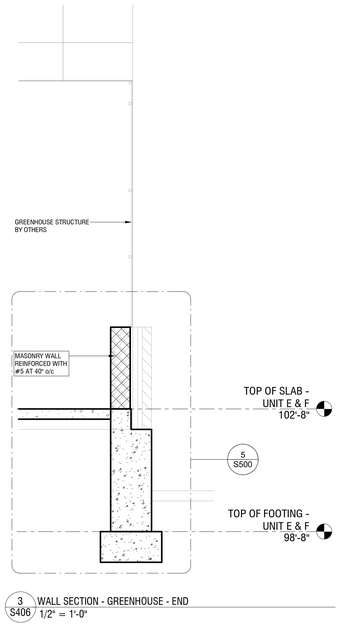
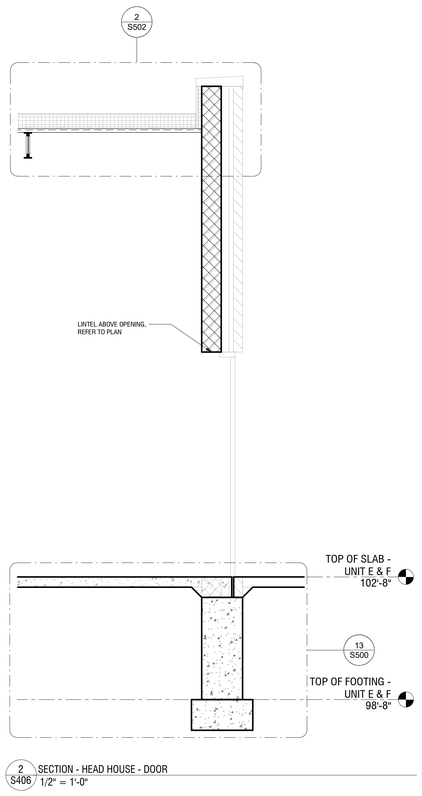
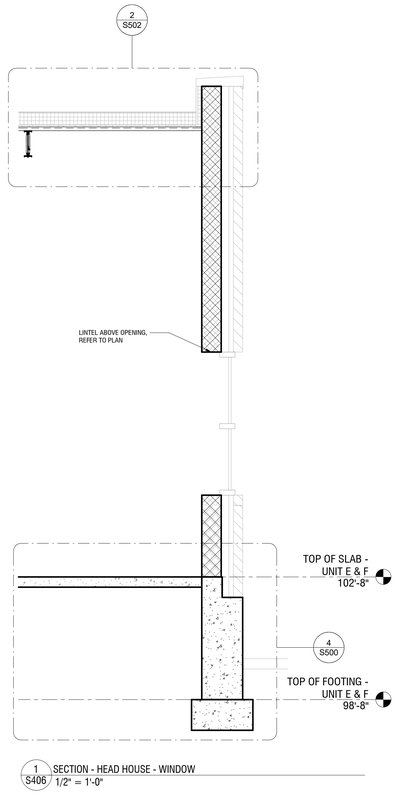


3 S406 WALL SECTION - GREENHOUSE - END
1/2" = 1'-0"



2 S406 SECTION - HEAD HOUSE - DOOR
1/2" = 1'-0"



1 S406 SECTION - HEAD HOUSE - WINDOW
1/2" = 1'-0"

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REYN PROJECT NO: 25187

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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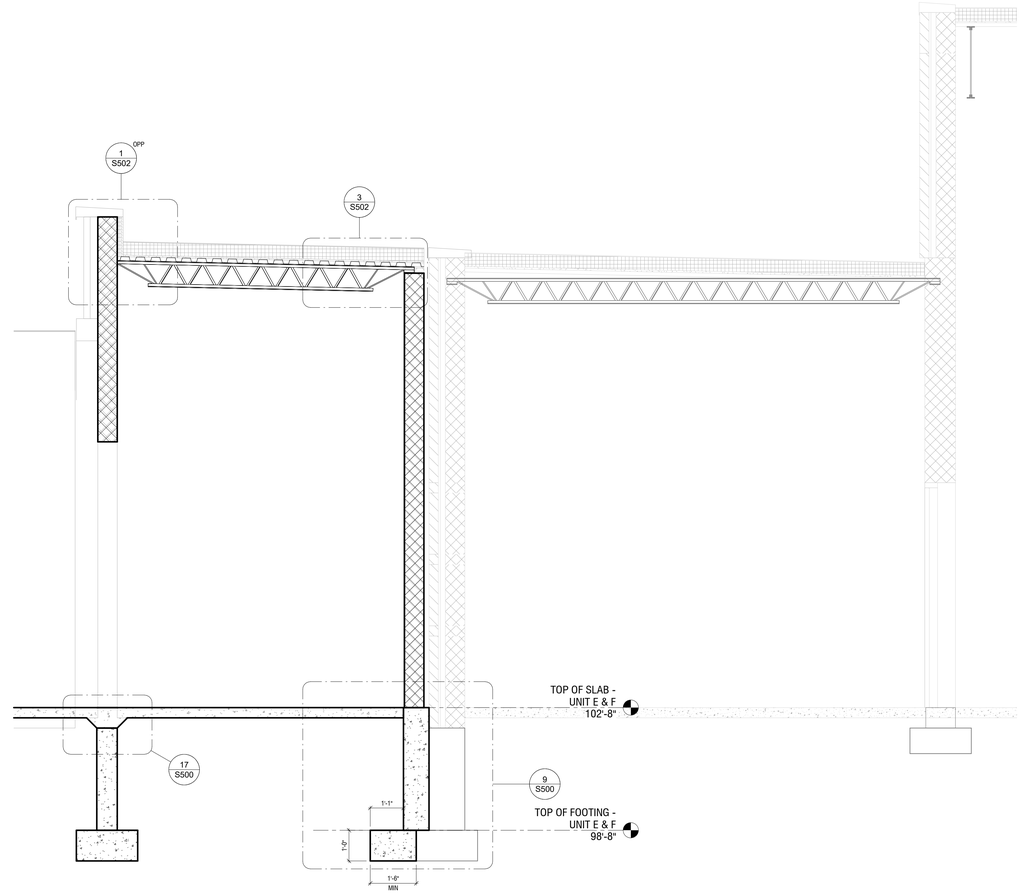
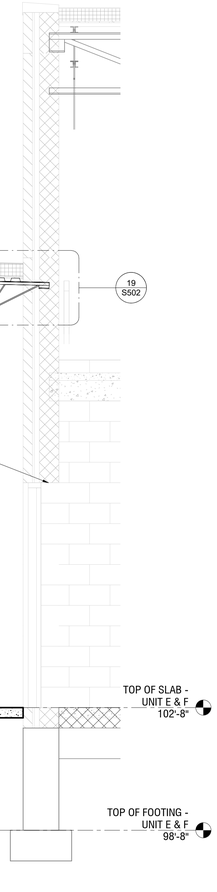


2 S407 WALL SECTION - GREENHOUSE
1/2" = 1'-0"



1 S407 WALL SECTION - GREENHOUSE
1/2" = 1'-0"

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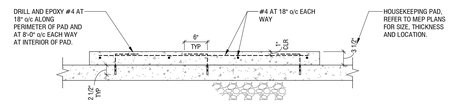
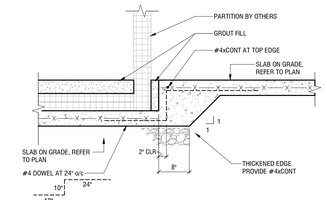
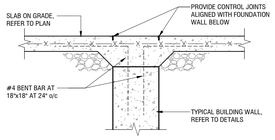


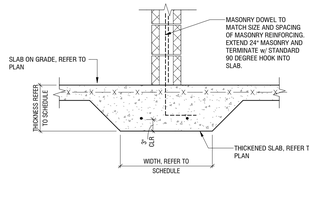
19 S500 TYPICAL HOUSEKEEPING PAD
3/4" = 1'-0"

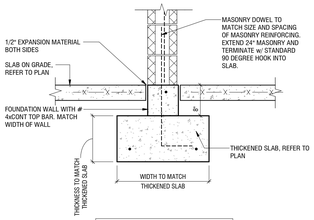


18 S500 SLAB STEP DETAIL AT WALK-IN COOLER
3/4" = 1'-0"



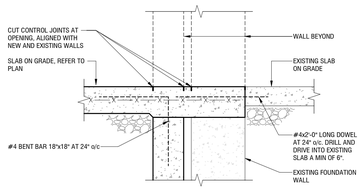
17 S500 OVERPOUR SECTION AT INTERIOR WALL
3/4" = 1'-0"



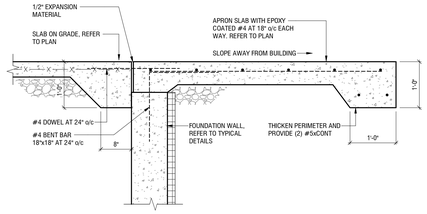


CONTRACTOR OPTION

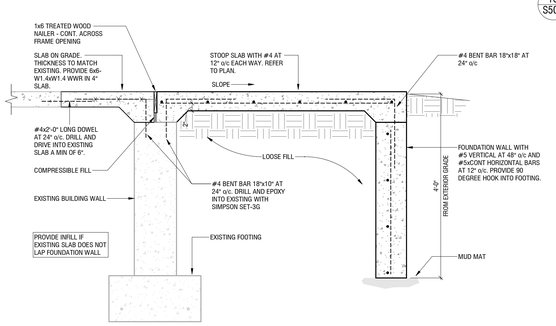
16 S500 SECTION AT INTERIOR MASONRY WALL (THICKENED SLAB)
3/4" = 1'-0"

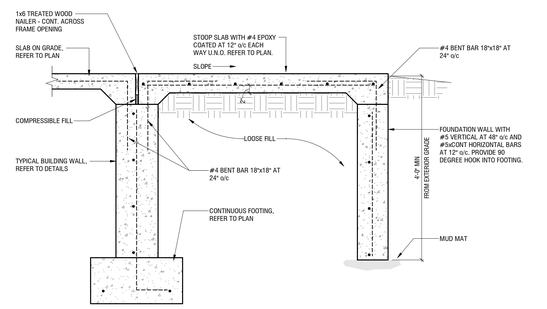


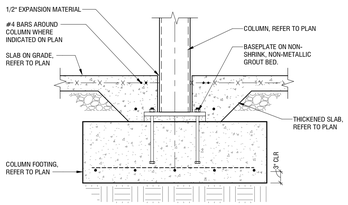
15 S500 OVERPOUR SECTION AT INTERIOR ON EXISTING
3/4" = 1'-0"



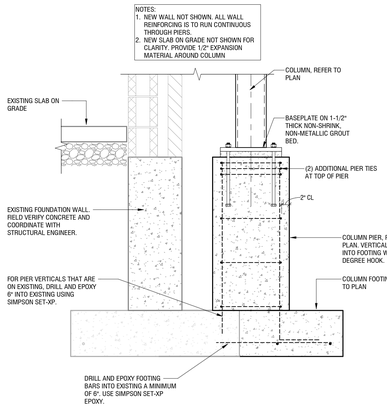
14 S500 SECTION AT OVERHEAD DOOR AT APRON
3/4" = 1'-0"



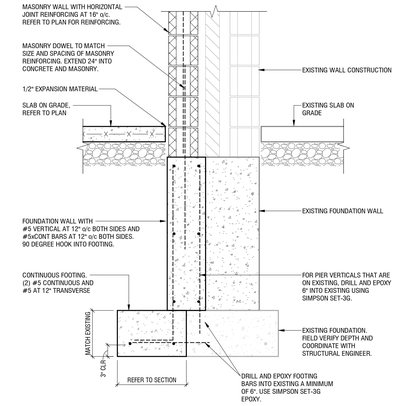




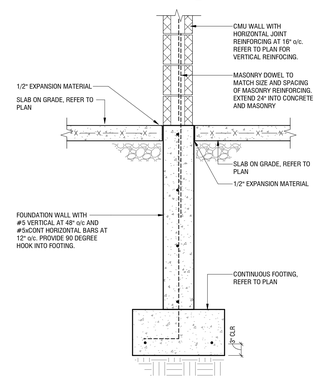
12 S500 STEEL COLUMN ON FOOTING AT THICKENED SLAB
3/4" = 1'-0"



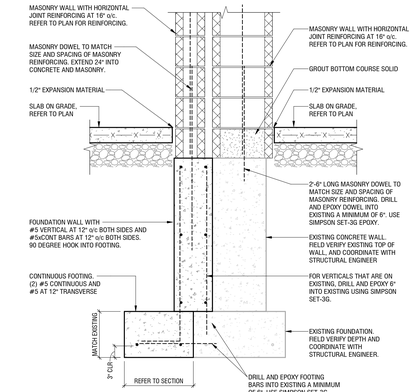
10 S500 FOUNDATION AT EXISTING
3/4" = 1'-0"



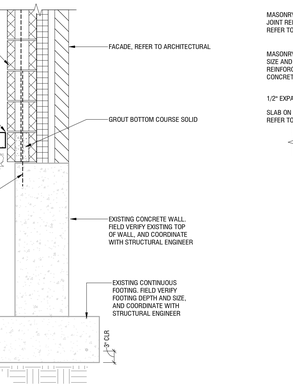
9 S500 WALL FOOTING AT EXISTING
3/4" = 1'-0"



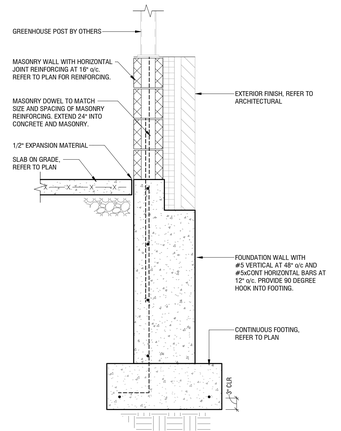
8 S500 FOUNDATION WALL AT INTERIOR MASONRY
3/4" = 1'-0"



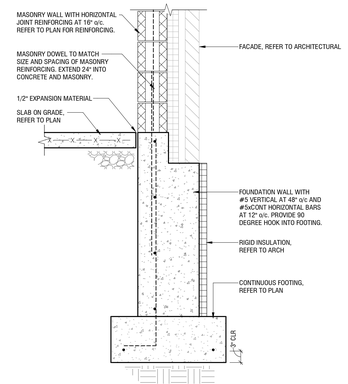
7 S500 WALL FOOTING AT EXISTING 2
3/4" = 1'-0"



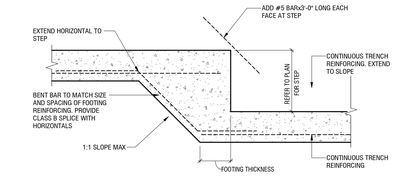
6 S500 FOUNDATION WALL ON EXISTING
3/4" = 1'-0"



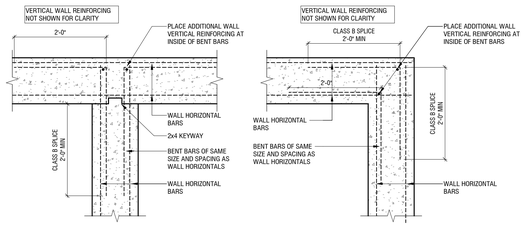
5 S500 FOUNDATION WALL AT MASONRY - GREENHOUSE
3/4" = 1'-0"



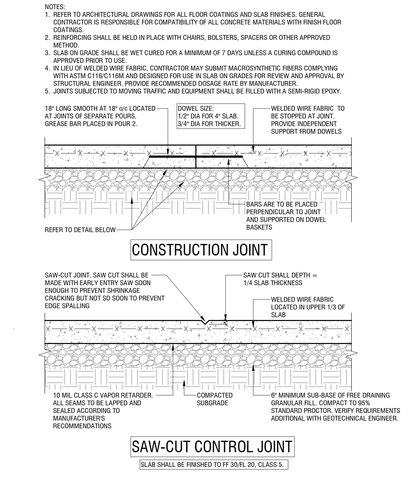
4 S500 FOUNDATION WALL AT MASONRY
3/4" = 1'-0"



3 S500 FOUNDATION STEP FOOTING
1/2" = 1'-0"



2 S500 CORNER BAR DETAILING
3/4" = 1'-0"



1 S500 SLAB ON GRADE
3/4" = 1'-0"

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Milwaukee, Wisconsin 53204
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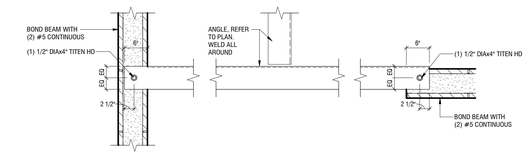
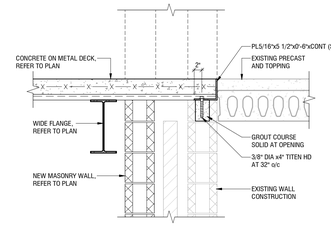
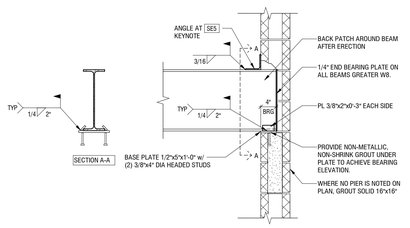


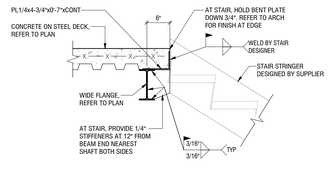
19 S501 WELDING BOOTH DETAILS
3/4" = 1'-0"



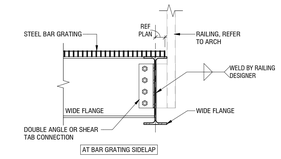
18 S501 SECTION AT NEW TO EXISTING MEZZANINE
3/4" = 1'-0"



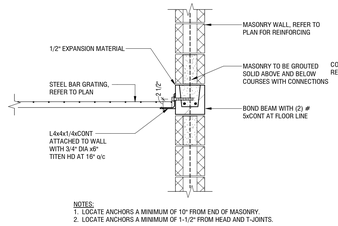
17 S501 BEAM BEARING ON MASONRY
3/4" = 1'-0"



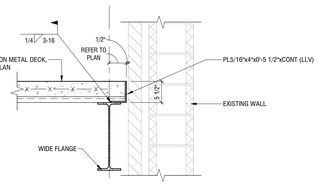
16 S501 SECTION AT STAIR
3/4" = 1'-0"



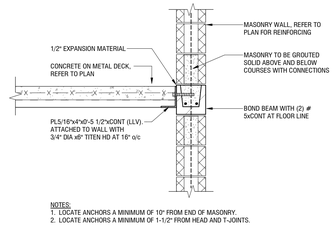
15 S501 SECTION AT GRATING OPENING
3/4" = 1'-0"



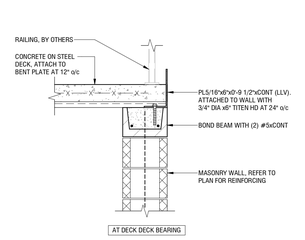
14 S501 FLOOR GRATING BEARING ON MASONRY
3/4" = 1'-0"



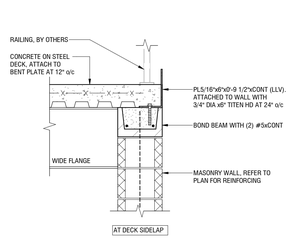
13 S501 SECTION AT FLOOR DECK EDGE AT EXISTING
3/4" = 1'-0"

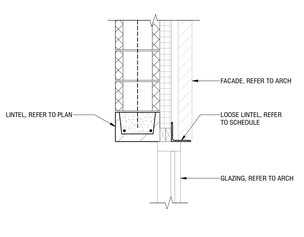


12 S501 FLOOR DECK BEARING ON MASONRY
3/4" = 1'-0"



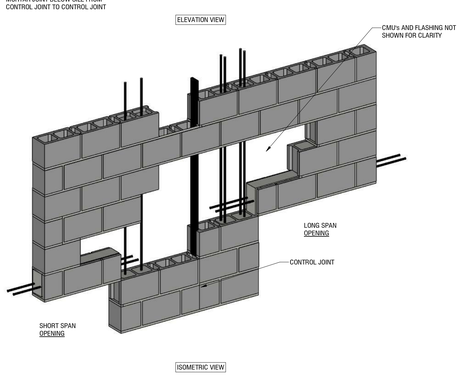
11 S501 SECTION AT DECK EDGE
3/4" = 1'-0"



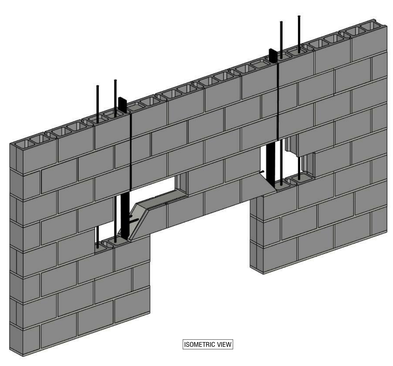


10 S501 HEAD AT CMU BACKUP
3/4" = 1'-0"

9 S501 BEAM BEARING ON MASONRY WALL END
3/4" = 1'-0"



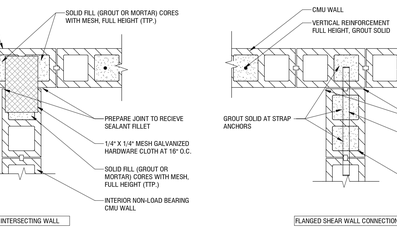
6 S501 REINFORCED MASONRY OPENING & ASSOCIATED CONTROL JOINT DESIGN
3/8" = 1'-0"



5 S501 UNREINFORCED MASONRY OPENINGS & SLIP PLANE/CONTROL JOINT AT LONG SPAN MASONRY LINTELS
3/4" = 1'-0"

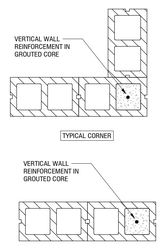


8 S501 TYPICAL JAMBS (STEEL LINTEL)
1" = 1'-0"

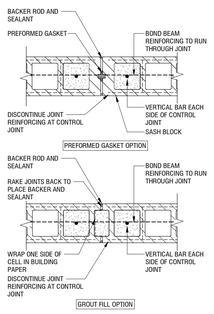


7 S501 TYPICAL JAMBS (MASONRY LINTEL)
1" = 1'-0"

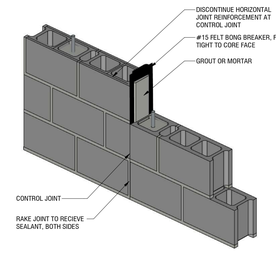
4 S501 INTERSECTING WALL
1" = 1'-0"

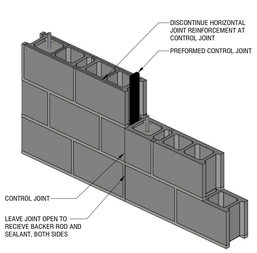


3 S501 MASONRY PLAN DETAILS, END OF WALLS
1" = 1'-0"



2 S501 MASONRY CONTROL JOINT
1" = 1'-0"





1 S501 TYPICAL CONTROL JOINT DETAILS
1" = 1'-0"

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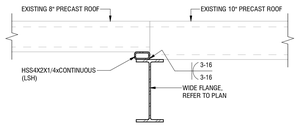
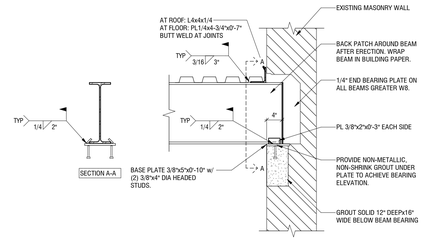
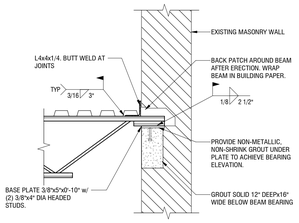


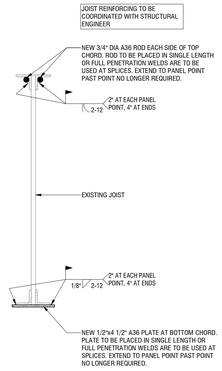
21 S502 EXISTING PRECAST BEARING ON NEW STEEL BEAM
3/4" = 1'-0"



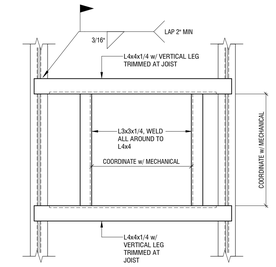
20 S502 BEAM BEARING ON EXISTING MASONRY
3/4" = 1'-0"



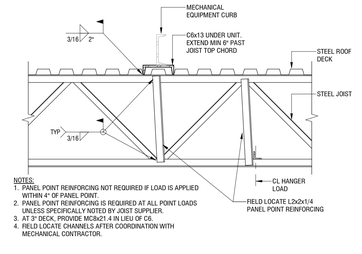
19 S502 JOIST BEARING ON EXISTING MASONRY
3/4" = 1'-0"



18 S502 CHORD REINFORCING
1 1/2" = 1'-0"



17 S502 DECK OPENING FRAMES
3/4" = 1'-0"



16 S502 CONCENTRATED LOAD AT JOIST
3/4" = 1'-0"

15 S502 JOIST BEARING AT STEEL BEAM
3/4" = 1'-0"

BEAM	N	PLATE THICKNESS
W8/W10	2	1/4"
W12/W14	3	1/4"
W16/W18	4	3/8"
W21	5	3/8"
W24	6	3/8"
W27	7	1/2"
W30/W33	8	1/2"
W36	9	1/2"

NOTES:
1. BOLTS ARE TO BE 3/4" DIA, A325, UNLESS NOTED OTHERWISE.
2. OTHER CONNECTIONS MAY BE SUBSTITUTED w/ ENGINEER'S PRIOR CONSENT.
3. SIZES AS SCHEDULED ARE MINIMUM. FABRICATOR MAY INCREASE AS NECESSARY.

14 S502 BEAM OVER COLUMN DETAIL WITH SPLICE
3/4" = 1'-0"

13 S502 BEAM OVER COLUMN AT END
3/4" = 1'-0"

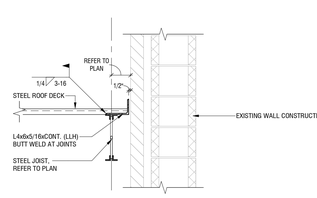
NOTES:
1. BOLTS ARE TO BE 3/4" DIA, A325, UNLESS NOTED OTHERWISE.
2. OTHER CONNECTIONS MAY BE SUBSTITUTED w/ ENGINEER'S PRIOR CONSENT.
3. SIZES AS SCHEDULED ARE MINIMUM. FABRICATOR MAY INCREASE AS NECESSARY.

12 S502 BEAM OVER COLUMN DETAIL AT CANTILEVER
3/4" = 1'-0"

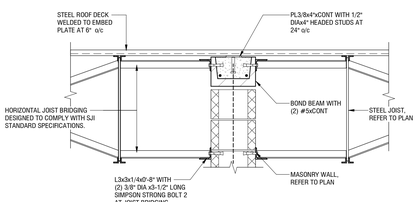
BEAM	N	PLATE SIZE	WELD SIZE
W8/W10	2	5/16x4 1/2"x0'-5 1/2"	1/4"
W12/W14	3	5/16x4 1/2"x0'-8 1/2"	1/4"
W16/W18	4	5/16x4 1/2"x0'-11 1/2"	1/4"
W21	5	5/16x4 1/2"x1'-2 1/2"	1/4"
W24	6	5/16x4 1/2"x1'-5 1/2"	1/4"
W27	7	3/8x4 1/2"x1'-8 1/2"	1/4"
W30/W33	8	3/8x4 1/2"x1'-11 1/2"	1/4"
W36	9	3/8x4 1/2"x2'-2 1/2"	1/4"

NOTES:
1. BOLTS ARE TO BE 3/4" DIA, A325, UNLESS NOTED OTHERWISE.
2. OTHER CONNECTIONS MAY BE SUBSTITUTED WITH ENGINEER'S PRIOR CONSENT.
3. SIZES AS SCHEDULED ARE MINIMUM. FABRICATOR MAY INCREASE AS NECESSARY.

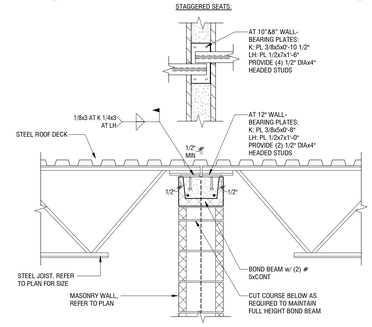
11 S502 TYPICAL BEAM/COLUMN CONNECTION
3/4" = 1'-0"



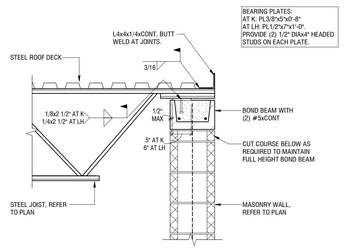
10 S502 SECTION AT ROOF DECK EDGE AT EXISTING
3/4" = 1'-0"



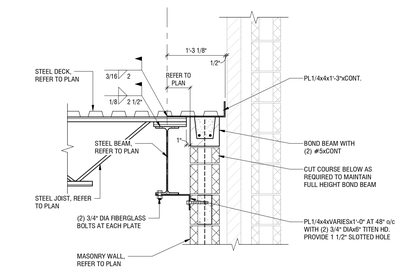
9 S502 DECK BEARING AT TOP OF MASONRY
3/4" = 1'-0"



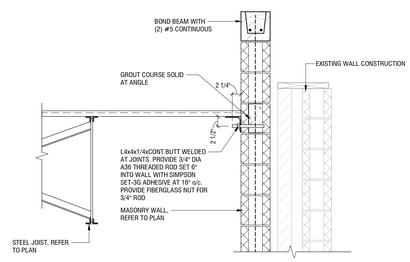
8 S502 JOIST BEARING AT MASONRY WALL (2 SIDED)
3/4" = 1'-0"



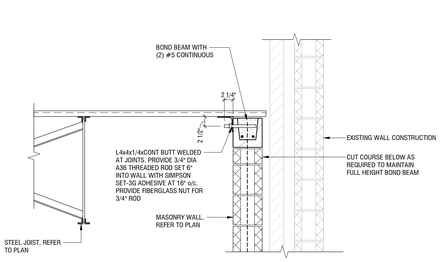
7 S502 JOIST BEARING AT TOP OF MASONRY WALL
3/4" = 1'-0"



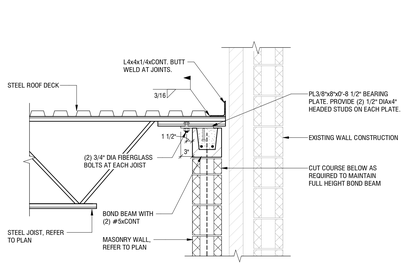
6 S502 ROOF JOIST BEARING AT BEAM
3/4" = 1'-0"



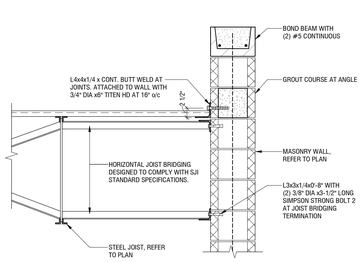
5 S502 ROOF DECK BEARING AT CONTINUOUS MASONRY FIREWALL
3/4" = 1'-0"



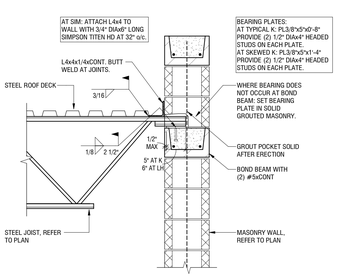
4 S502 ROOF DECK BEARING AT ENDED MASONRY FIREWALL
3/4" = 1'-0"



3 S502 JOIST BEARING AT MASONRY FIREWALL
3/4" = 1'-0"



2 S502 ROOF DECK BEARING AT MASONRY WALL
3/4" = 1'-0"



1 S502 JOIST BEARING AT MASONRY WALL
3/4" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com
REYN ENGINEERING
507 S. 2ND STREET, SUITE 201
MILWAUKEE, WI 53204
REYN PROJECT NO: 25187

Project Title:
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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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Sheet Title:
STRUCTURAL DETAILS

Sheet Number:
S502

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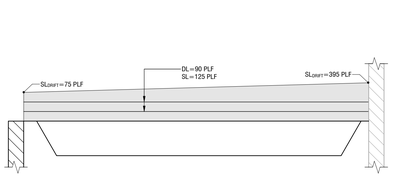
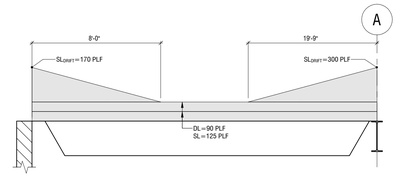
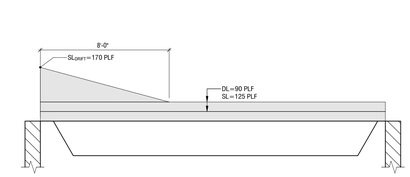


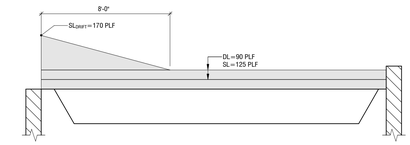
5 S503 12K-SP5
3/8" = 1'-0"



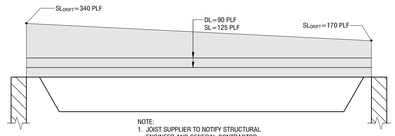
4 S503 30K-SP4
3/8" = 1'-0"



3 S503 16K-SP3
3/8" = 1'-0"



2 S503 30K-SP2
3/8" = 1'-0"



1 S503 10K-SP1
3/8" = 1'-0"

7 S503 24K-SP7
3/8" = 1'-0"

6 S503 10K-SP6
3/8" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

REYN ENGINEERING
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SYMBOL LEGEND

MATERIAL SYMBOLS

- ALUMINUM
- BATT INSULATION
- CONCRETE
- CONCRETE BLOCK
- EARTH
- FACE BRICK
- FINISH WOOD
- GRAVEL
- GROUT
- GYPSUM BOARD
- PLYWOOD
- RIGID INSULATION
- ROUGH LUMBER
- SAND
- SPRAY APPLIED INSULATION
- STEEL

GRAPHIC SYMBOLS

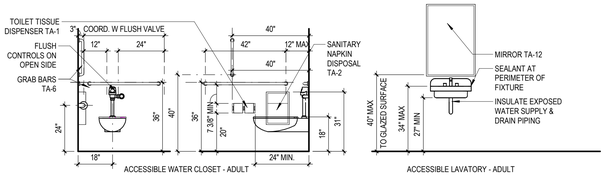
- ROOM NAME / ROOM NUMBER — ROOM NAME, ROOM NUMBER
- BUILDING SECTION NUMBER / SHEET NUMBER
- WALL SECTION NUMBER / SHEET NUMBER
- DETAIL NUMBER / SHEET NUMBER
- DOOR NUMBER
- BORROWED LITE TYPE
- WINDOW TYPE / STOREFRONT TYPE / CURTAIN WALL TYPE
- DEMO KEYNOTE
- KEYNOTE
- WALL TYPE
- VERTICAL WORKING POINT ELEVATION
- REVISION
- NORTH ARROW / PLAN NORTH
- EXTERIOR ELEVATION NUMBER / SHEET NUMBER
- INTERIOR ELEVATION NUMBER / SHEET NUMBER
- EXISTING WALL / EXISTING DOOR
- DEMOLISHED WALL / DEMOLISHED DOOR
- NEW WALL / NEW DOOR
- EXISTING GRID LINES
- NEW GRID LINES

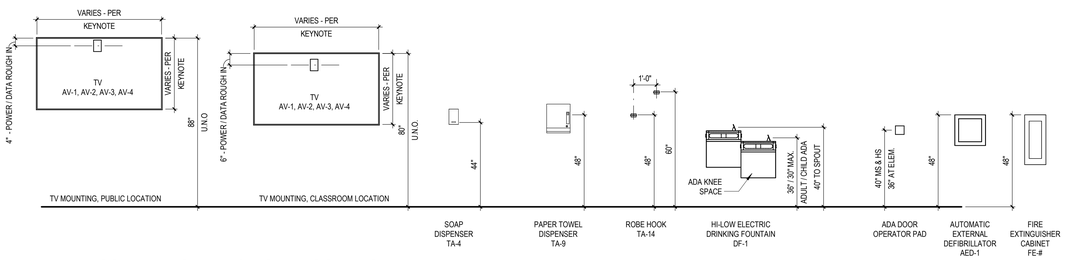
PROJECT KEYNOTE LEGEND

AED-1	AUTOMATIC EXTERNAL DEFIBRILLATOR, CABINET, AND SIGN
AV-1	75" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-2	60" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-3	55" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-4	43" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-5	INTERACTIVE DISPLAY MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-6	DISPLAY CAMERA - FURNISHED AND INSTALLED BY OWNER
AV-7	CEILING MOUNTED PROJECTOR - FURNISHED AND INSTALLED BY OWNER
AV-8	PROJECTION SCREEN - FURNISHED AND INSTALLED BY OWNER
BN-1A	WOOD BENCH - ACCESSIBLE
CBR-1	COUNTERTOP BRACKET (STANDARD)
CBR-2	COUNTERTOP BRACKET (FLUSH MOUNT)
CG-A1	CORNER GUARDS – SEE INTERIOR FINISH LEGEND
CG-A2	CORNER GUARDS – SEE INTERIOR FINISH LEGEND
CG-B1	CORNER GUARDS (STAINLESS STEEL) – SEE INTERIOR FINISH LEGEND
CG-B2	END WALL GUARDS – SEE INTERIOR FINISH LEGEND
CH-1	DOUBLE COAT HOOK
CPT-1	CARPET - SEE INTERIOR FINISH LEGEND
CT-1	TILE - SEE INTERIOR FINISH LEGEND
D01	REMOVE DOOR AND ASSOCIATED HARDWARE ONLY. DOOR FRAME TO REMAIN IN PLACE.
D02	REMOVE DOOR, DOOR FRAME, SIDELITE FRAME, TRANSOM WINDOW AND WOOD PANELING.
D03	REMOVE DOOR, DOOR HARDWARE, AND DOOR FRAME.
D04	REMOVE DOOR, DOOR HARDWARE, DOOR FRAME, AND ADJACENT SIDE LITES.
D05	REMOVE SHUTTER, JAMB TRACKS, AND OVERHEAD SHUTTER HOUSING.
D06	REMOVE ACCORDION FOLDING DOOR AND ALL ASSOCIATED SUPPORTS AND HARDWARE.
D07	REMOVE DOOR AND DOOR HARDWARE. SALVAGE DOOR AND HARDWARE FOR RE-USE. REMOVE FRAME.
D08	REMOVE DOOR OPERATOR
D10	REMOVE WINDOW, PATCH AND PREP FOR NEW INFILL/WINDOW.
D11	REMOVE WINDOW, DEMOLISH WALL ABOVE AND / OR BELOW TO ACCEPT LARGER WINDOW, REFER TO ELEVATIONS.
D13	REMOVE STOREFRONT SYSTEM.
D20	REMOVE WALLS, FULL HEIGHT, PATCH FLOOR AND CEILING TO RECEIVE NEW FINISHES.
D21	REMOVE PORTION OF WALL FOR NEW DOOR OR OPENING LOCATION.
D22	REMOVE PORTION OF WALL FOR NEW WINDOW FRAME.
D28	REMOVE EXISTING WALL BASE, REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH
D32	REMOVE PORTION OF STAGE FLOOR. PREP TO RECEIVE NEW FLOORING
D34	REMOVE FLOOR FINISH AND WALL BASE, REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH.
D35	REMOVE ALL TILE AND TILE BEDDING ON FLOORS. INFILL CONCRETE FLOOR WHERE TILE BED WAS REMOVED TO PROVIDE A FLUSH CONCRETE SLAB FOR NEW FINISHES.
D38	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D39	REMOVE PORTION OF SLOPED FLOOR. PREP TO RECEIVE NEW FINISHES.
D40	REMOVE ACOUSTICAL CEILING TILES, GRID AND ALL ASSOCIATED SUPPORTS.
D41	REMOVE GYPSUM BOARD CEILING/BULKHEAD/SOFFIT AND ALL ASSOCIATED STRUCTURE/SUPPORT.
D45	REMOVE CEILING TILE AND CEILING GRID TO NEAREST GRIDLINE TO PERFORM WORK
D50	REMOVE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D51	REMOVE AND SALVAGE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D54	REMOVE BUILT IN DISPLAY CASE, GLASS DOORS, AND WOOD TRIM.
D55	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D59	REMOVE AND REPLACE PORTION OF EXISTING PRECAST FLOOR FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D71	REMOVE HANDRAILS, GUARDRAILS, AND ALL ASSOCIATED SUPPORTS.
D72	REMOVE TREAD AND RISER FINISH
D80	REMOVE SHELVING, STANDARDS, AND ALL ASSOCIATED HARDWARE.
D81	REMOVE FIRE EXTINGUISHER CABINET.
D82	REMOVE LOCKERS AND CONCRETE CURB. PATCH FLOOR TO RECEIVE NEW FINISHES.
D83	REMOVE ALL TOILET PARTITIONS, TOILET ACCESSORIES, AND ASSOCAITED HARDWARE / SUPPORTS.
D84	REMOVE LOCKERS. REMOVE WOOD BASE AND PREP FLOOR TO RECEIVE NEW FINISHES.
D87	REMOVE KITCHEN EQUIPMENT. PATCH FLOOR AND CEILING TO RECEIVE NEW FINISHES.
D88	REMOVE MOUNTED MONITOR AND ALL ASSOCIATED HARDWARE. SALVAGE AND RETURN TO OWNER.
D89	REMOVE DISPLAY BOARD (TACKBOARD / WHITEBOARD / CHALKBOARD) RETURN TO OWNER. PATCH AND PREP WALL TO REVEIVE NEW FINISHES.
D100	REMOVE THEATER SEATING AND ASSOCIATED HARDWARE, SALVAGE AND RETURN TO OWNER. PATCH FLOOR TO RECEIVE NEW FINISHES.
D101	REMOVE DRINKING FOUNTAIN. SALVAGE AND PREP TO BE REINSTALLED IN EXISTING LOCATION AFTER NEW FINISHES.
D102	REMOVE CAR LIFT AND ALL ASSOCIATED SUPPORTS. SALVAGE TO BE REINSTALLED.
D103	REMOVE FREEZER AND ALL ASSOCIATED HARDWARE. SALVAGED TO BE REINSTALLED.
DC-1	DISPLAY CASE - RECESSED
DC-2	DISPLAY CASE - TWO SIDED
DF-1	ELECTRIC WATER COOLER - SEE PLUMBING
FB-1	FACE BRICK - GRAY
FB-2	FACE BRICK - RED
FB-3	FACE BRICK - BIEGE
FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
FE-4	FIRE EXTINGUISHER AND BRACKET
FRP-1	FIBER REINFORCED PANEL – SEE INTERIOR FINISH LEGEND
FRP-2	FIBER REINFORCED PANEL – SEE INTERIOR FINISH LEGEND
LAD-1	STEEL LADDER (INTERIOR ACCESS)
LKR-1	LOCKERS - KNOCK-DOWN
LKR-1A	LOCKERS - KNOCK-DOWN (ACCESSIBLE)
MPB-1	METAL (PIPE) BOLLARD - PT-7
MRVT-1	MILLWORK REVEAL TRIM (BETWEEN PANELS)
MRVT-2	MILLWORK REVEAL TRIM (CORNER)
MRVT-3	MILLWORK REVEAL TRIM (EDGE)
MWP-1	FLUSH-PROFILE, CONCEALED-FASTENER METAL WALL PANELS.
OE-1	SOUND PORCH FURNITURE - FURNISHED AND INSTALLED BY OWNER
OE-2	EXISTING CAR LIFT - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
P4	EXISTING BOLLARD. PATCH AND PAINT TO MATCH NEW - PT-7
PLAM-1	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PLAM-2	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PLAM-3	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PT-5	PAINT - SEE INTERIOR FINISH LEGEND
PT-6	PAINT - SEE INTERIOR FINISH LEGEND
PTE-2	PAINT EXISTING FRAME PT-2
PTE-2A	PAINT EXISTING DOOR AND FRAME PT-2
PTE-2B	PAINT EXISTING RAILING, STAIR STRINGER AND STAIR TREADS PT-2, PAINT VISION STRIP ON STAIR TREADS
RFS-2	ROOF EDGE FASCIA
RFS-3	METAL COPING
RLG-1	PIPE METAL HANDRAIL - WALL MOUNTED
RLG-2	PIPE AND TUBE METAL HANDRAIL - AUDITORIUM
RLG-3	PIPE AND TUBE METAL HANDRAIL - MEZZANINE
RLG-3.1	PIPE AND TUBE METAL HANDRAIL - MEZZANINE - REMOVABLE
RLG-3.2	PIPE AND TUBE GUARDRAIL
RT-1	ROOF TYPE 1
RT-2	ROOF TYPE 2
SC-1	STEEL CASEWORK, PAINT PT-6
SHV-1	PLASTIC LAMINATE SHELVES, STANDARDS, AND BRACKETS
SLW-1	SLAT WALL
SN-1	DIMENSIONAL LETTERS - CAST CHARACTERS
SN-2	DIMENSIONAL LETTERS - CAST CHARACTERS
SN-3	DIMENSIONAL LETTERS - CAST CHARACTERS
SPB-1	SPRAY BOOTH - WALK-IN
SPB-2	SPRAY BOOTH - BENCH
SSC-1	STAINLESS STEEL COUNTERTOP
SSF-1	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
SSF-2	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
TA-1	TOILET TISSUE DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-2	SANITARY NAPKIN DISPOSAL UNIT - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-6	GRAB BAR SET (42", 36" AND 18")
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-12	MIRROR UNIT (24" X 36")
TA-17	CUSTODIAL MOP AND BROOM HOLDER
TRS-10	TRANSITION STRIP - SEE INTERIOR FINISH LEGEND
TRS-14	TRANSITION STRIP (NOSING) - SEE INTERIOR FINISH LEGEND
VCT-3	VINYL COMPOSITION TILE - SEE INTERIOR FINISH LEGEND
WB-1	WALL BASE - SEE INTERIOR FINISH LEGEND
WB-2	WALL BASE - SEE INTERIOR FINISH LEGEND
WC-1	WELDING CURTAIN
WC-2	WELDING STRIP CURTAIN
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-2	WINDOW TREATMENT (MOTORIZED ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-3	WINDOW TREATMENT (MOTORIZED BLACKOUT ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-4	WINDOW TREATMENT (MANUAL BLACKOUT ROLLER SHADE) - SEE INTERIOR FINISH LEGEND

TYPICAL ABBREVIATIONS

@	AT
A/C	AIR CONDITIONING
ACC	ACCESS(IBLE)
ACM	ALUMINUM COMPOSITE PANEL
ACR	ACOUSTICAL CEILING REFLECTOR
ACS FLR	ACCESS FLOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
ADH	ADHESIVE
ADJ	ADJUSTABLE
AE	ATHLETIC EQUIPMENT
AED	AUTOMATIC EXTERNAL DEFIBRILLATOR
AFF	ABOVE FINISHED FLOOR
AHR	ANCHOR
ALT	ALTERNATE
ALUM	ALUMINUM
AMC	ACOUSTICAL METAL PAN CEILING
ANOD	ANODIZE(D)
AP	ACRYLIC PANEL
APC	ACOUSTICAL PANEL CEILING
APPROX	APPROXIMATE
ARB	AIR BARRIER
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AUD	AUDITORIUM SEATING
AUX	AUXILIARY
AV	AUDIO VISUAL
AVG	AVERAGE
AWF	ACOUSTICAL WALL PANEL MATERIAL
AWP	ACOUSTICAL WALL PANEL
BEJ	BUILDING EXPANSION JOINT (EXTERIOR)
BEV	BEVEL(ED)
BITUM	BITUMINOUS
BLDG	BUILDING
BLE	BRICK LEDGE ELEVATION
BLK	BLOCK(ING)
BLT	BORROWED LITE
BM	BEAM
BMU	BURNISHED MASONRY UNIT
BOT	BOTTOM
BPC	SOUND ABSORBING BAFFLE PANELS
BRD	BRANDING ITEM
BRG	BEARING
BRK	BRICK
BW	BUILDING WRAP
C&G	CURB AND GUTTER
C/C	CENTER TO CENTER
CAB	CABINET
CBR	COUNTERTOP BRACKET
CEM	CEMENT
CEM PLAS	CEMENT PLASTER
CFLG	COUNTER FLASHING
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST-IN PLACE
CJ	CONTROL (CONSTRUCTION) JOINT
CLG	CEILING
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
CNR	CORNER
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CS	CAST STONE
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTB	CERAMIC TILE BASE
CTR	CENTER
CURT	CURTAIN
CVB	COVERBOARD
DP	CABINET (DOOR/DRAWER) PULL
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN (ELECTRIC WATER COOLER)
DIA	DIAMETER
DMPF	DAMPROOFING
DN	DOWN
DPR	DIGITAL PRINT
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DRLG	DECORATIVE RAILING / GUARDRAIL
DS	DOWNSPOUT
DTS	DATE STONE
DWG	DRAWING
DWR	DRAWER
E	EAST
EFS	EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT (INTERIOR)
EL	ELEVATION
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENTR	ENTRANCE
EPS	EXPANDED POLYSTYRENE BOARD (INSULATION)
EPT	EPOXY PAINT
EQ	EQUAL
ETR	EXISTING TO REMAIN
EW	EACH WAY
EWC	ELECTRIC WATER COOLER (DRINKING FOUNTAIN)
EXH	EXHAUST
EXPO	EXPOSED
EXST	EXISTING
EXT	EXTERIOR
F&I	FURNISH & INSTALL
FAB	FABRIC
FB	FACE BRICK
FCO	FLOOR CLEANOUT
FCS	FIBER CEMENT SIDING
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FE-36	FIRE EXTINGUISHER (AGENT 36 FOR COMPUTERS)
FEC	FIRE EXTINGUISHER CABINET
FEP	FINISHED END PANEL
FGL	FIBERGLASS
FHP	FULL HEIGHT PARTITION
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR LINE
FLASH	FLASHING
FLG	FLOORING
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FOW	FACE OF WALL
FP	FIREPROOF (ING)
FPGL	FIRE PROTECTIVE GLAZING UNIT
FRFD	FIRE RATED FOLDING DOOR
FRG	FIBER REINFORCED GYPSUM
FRGL	FIRE RESISTIVE GLAZING UNIT
FRP	FIBER REINFORCED PLASTIC
FSTNR	FASTENER
FTG	FOOTING
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCJ	GYPSUM BOARD CONTROL JOINT
GEN	GENERAL
GF	GROUND FACE
GF CMU	GROUND FACE CMU
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GL	MONOLITHIC GLAZING UNIT
GL	GLASS
GL BLK	GLASS BLOCK
GL CMU	GLAZED CMU
GR	GRADE
GROM	GROMMET
GT	GROUT
GYP	GYPSUM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTER
HB	HOSE BIBB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HO	HOLD OPEN
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HTR	HEATER
HVAC	HEATING, VENTILATING & AIR CONDITIONING
HYD	HYDRANT
IGU	INSULATED GLASS UNIT
IMC	INTUMESCENT MASTIC COATING
INCL	INCLUDED
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
IPT	INTUMESCENT PAI
JAN	JANITOR
JAN CLO	JANITOR'S CLOSET
JT	JOINT
KIN	KINETEK TILE
KPL	KICK PLATE
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE
LINO	LINOLEUM TILE
LKR	LOCKER
LMC	LINEAR METAL CEILING
LOC	LOCATION
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINYL TILE
MA	MASONRY ACCESSORY
MAX	MAXIMUM
MD	METAL DECK
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MJ	MASONRY MOVEMENT JOINT
MKB	MARKERBOARD
MKBV	MARKERBOARD VINYL
MLWK	MILLWORK
MO	MASONRY OPENING
MOB	MOBILE PARTITION
MPB	METAL (PIPE) BOLLARD
MS	MOP SINK (SERVICE SINK)
MSP	METAL SOFFIT PANEL
MT	MOSAIC TILE
MTD	MOUNTED
MTL	METAL
MWP	METAL WALL PANEL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED / OWNER INSTALLED
OH	OVERHEAD
OHDR	OVERHEAD DOOR
OPH	OPPOSITE HAND
OPNG	OPENING
PCONC	POLISHED CONCRETE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PRCST	PRECAST
PREFAB	PREFABRICATED
PREFIN	PREFINISH(ED)
PROJ	PROJECT
PT	PAINT
PVG	PAVING
PVMT	PAVEMENT
PWR	POWER
QT	QUARRY TILE
QZ	QUARTZ
R	RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
REINF	REINFORCE
REM	REMOVABLE
REQD	REQUIRED
RES	RESINOUS FLOORING
RFG	ROOFING
RFS	ROOF SPECIALTIES
RH	ROOF HATCH
RLG	RAILING / GUARDRAIL
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RUB	RUBBER FLOORING
S	SOUTH
SAN	SANITARY
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SC	SOLID CORE
SCA	SECURITY CEILING ASSEMBLIES
SCHED	SCHEDULE
SCONC	SEALED CONCRETE
SF	SQUARE FOOT
SHT	SHEET
SHTHG	SHEATHING
SKLT	SKYLIGHT
SLNT	SEALANT
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPKR	SPEAKER
SPT	SPORTS FLOORING
SQ	SQUARE
SQ IN	SQUARE INCH
SSC	STAINLESS STEEL COUNTERTOP
SSF	SOLID SURFACE
SST	STAINLESS STEEL
STD	STANDARD
STG	SEATING
STL	STEEL
STL JST	STEEL JOIST
STL LNTL	STEEL LINTEL
STL PL	STEEL PLATE
STL TB	STEEL TUBE
STL TR	STEEL TRUSS
STM	STEAM
STN	STONE
STNV	STONE VENEER
STOR	STORAGE
SV	SHEET VINYL
SYS	SYSTEM
T	TREADS
T&G	TONGUE & GROOVE
TA	TOILET ACCESSORY
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY, TEMPERED
TER	TERRAZZO
TKB	TACKBOARD
TKS	TACKABLE WALL STRIP
TO	TOP OF
TP	TOILET COMPARTMENT (PARTITION)
TRS	TRANSITION STRIP
TS	TACKABLE SURFACE
TSS	TELESCOPIC STANDS (BLEACHERS)
TT	TERRAZZO TILE
TWF	TACKABLE WALL PANEL MATERIAL
TWP	TACKABLE WALL PANEL
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISH(ED)
UR	URINAL
UTIL	UTILITY
VCS	VINYL COMPOSITION SHEET
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VNR	VENEER
VOL	VOLUME
VP	VENEER PLASTER
VR	VAPOR RETARDER
VS	VERTICAL SUNSHADE
VWC	VINYL WALL COVERING
W	WEST
W/	WITH
W/W	WALL TO WALL
WB	WALL BASE
WD	WOOD
WDFIN	WOOD FINISH
WDFLR	WOOD FLOOR
WDW	WINDOW
WDWT	WINDOW TREATMENT
WGL	WIREED GLASS
WOT	WALK OFF CARPET TILE
WP	WATERPROOFING
WSB	WALL SHEATHING
WSCT	WAINSCOT
WWR	WELDED WIRE REINFORCEMENT
YD	YARD
YR	YEAR





TYPICAL MOUNTING HEIGHTS

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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GENERAL NOTES

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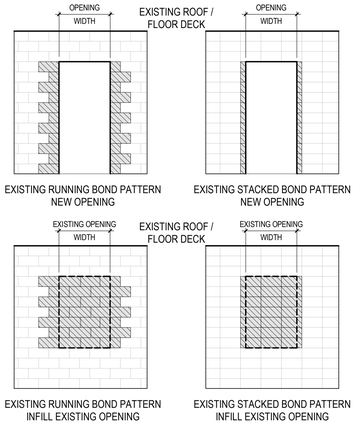
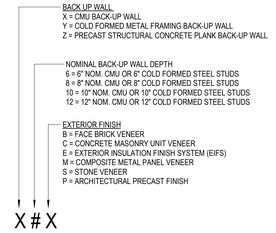
OPENING / INFILL AT EXISTING MASONRY WALL



1. TOOTH-IN NEW MASONRY TO MATCH EXISTING CMU DIMENSIONS AND PATTERN
2. USE BULL-NOSE CORNERS UNLESS OTHERWISE NOTED FOR FRAMED OPENINGS.
3. AT BRICK CONDITIONS USE SALVAGED BRICK.
4. AT STRUCTURALLY SUPPORTED OPENINGS, COORDINATE WITH STRUCTURAL DRAWINGS FOR LINTEL AND BEARING INFORMATION. MODIFY THE EXTENT OF TOOTH-IN WORK AS REQUIRED FOR LINTEL BEARING.
5. AT EXTERIOR LOCATIONS, MATCH BRICK COURSING AND STYLE TO ADJACENT WALL FOR NEW OPENINGS & INFILL.

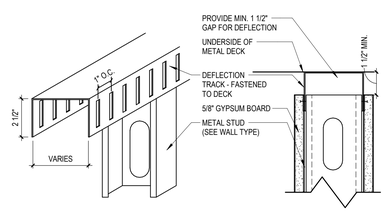
EXTERIOR WALL LEGEND

EXTERIOR WALL NAMING METHOD



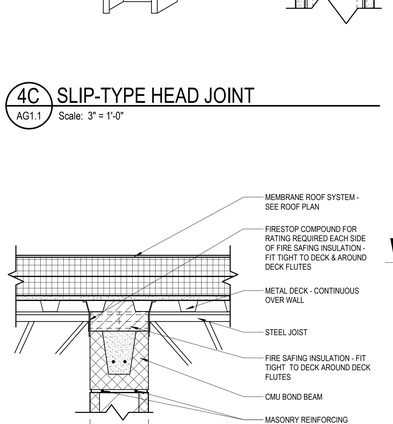
2D OPENING IN EXISTING MASONRY WALL

AG1.1 Scale: 1/4" = 1'-0"



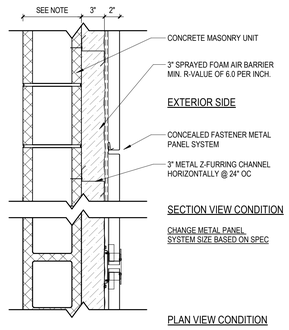
4C SLIP-TYPE HEAD JOINT

AG1.1 Scale: 3" = 1'-0"



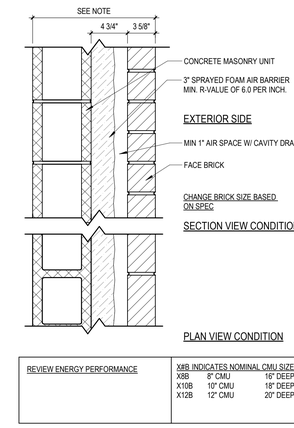
4A TOP OF RATED MASONRY WALL

AG1.1 Scale: 1 1/2" = 1'-0"



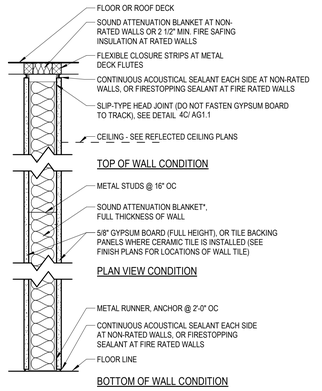
UL RATED CMU:	X#M INDICATES NOMINAL CMU SIZE
6" CMU - UL FIRE RATED - DESIGN NO. U906	X8M 8" CMU
8" CMU - UL FIRE RATED - DESIGN NO. U905	X10M 10" CMU
	X12M 12" CMU

WALL TYPE X#M



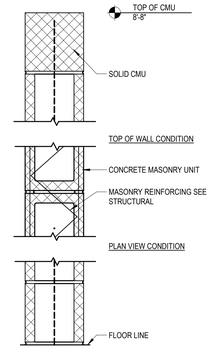
REVIEW ENERGY PERFORMANCE	X#B INDICATES NOMINAL CMU SIZE		
	X8B	8" CMU	16" DEEP
	X10B	10" CMU	18" DEEP
	X12B	12" CMU	20" DEEP

WALL TYPE X#B



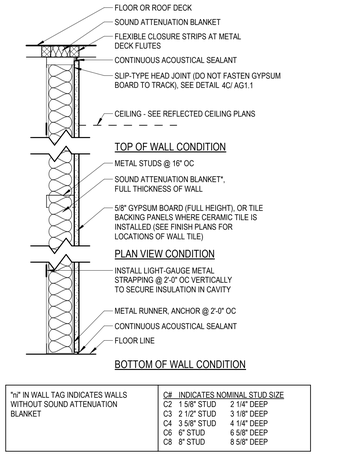
U.L. DESIGN NO.: U419 (AT 1 HOUR WALLS)	A# INDICATES NOMINAL STUD SIZE		
	A2	1 5/8" STUD	2 7/8" DEEP
"n" IN WALL TAG INDICATES WALLS WITHOUT SOUND ATTENUATION BLANKET	A3	2 1/2" STUD	3 3/4" DEEP
	A4	3 5/8" STUD	4 7/8" DEEP
	A6	6" STUD	7 1/4" DEEP
	A8	8" STUD	9 1/4" DEEP

WALL TYPE A#



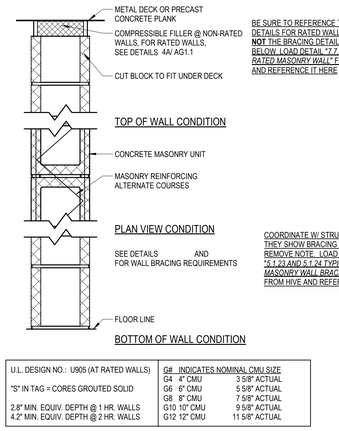
	G#A INDICATES NOMINAL CMU SIZE	
	G4A 4" CMU	3 5/8" ACTUAL
	G6A 6" CMU	5 5/8" ACTUAL
	G8A 8" CMU	7 5/8" ACTUAL
	G10A 10" CMU	9 5/8" ACTUAL
	G12A 12" CMU	11 5/8" ACTUAL

WALL TYPE G#A



"n" IN WALL TAG INDICATES WALLS WITHOUT SOUND ATTENUATION BLANKET	C# INDICATES NOMINAL STUD SIZE		
	C2	1 5/8" STUD	2 1/4" DEEP
	C3	2 1/2" STUD	3 1/8" DEEP
	C4	3 5/8" STUD	4 1/4" DEEP
	C6	6" STUD	6 5/8" DEEP
	C8	8" STUD	8 5/8" DEEP

WALL TYPE C#



U.L. DESIGN NO.: U905 (AT RATED WALLS)	G# INDICATES NOMINAL CMU SIZE		
	G4	4" CMU	3 5/8" ACTUAL
"S" IN TAG = CORES GROUTED SOLID	G6	6" CMU	5 5/8" ACTUAL
	G8	8" CMU	7 5/8" ACTUAL
2.8" MIN. EQUIV. DEPTH @ 1 HR. WALLS	G10	10" CMU	9 5/8" ACTUAL
4.2" MIN. EQUIV. DEPTH @ 2 HR. WALLS	G12	12" CMU	11 5/8" ACTUAL

WALL TYPE G#

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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WALL TYPES

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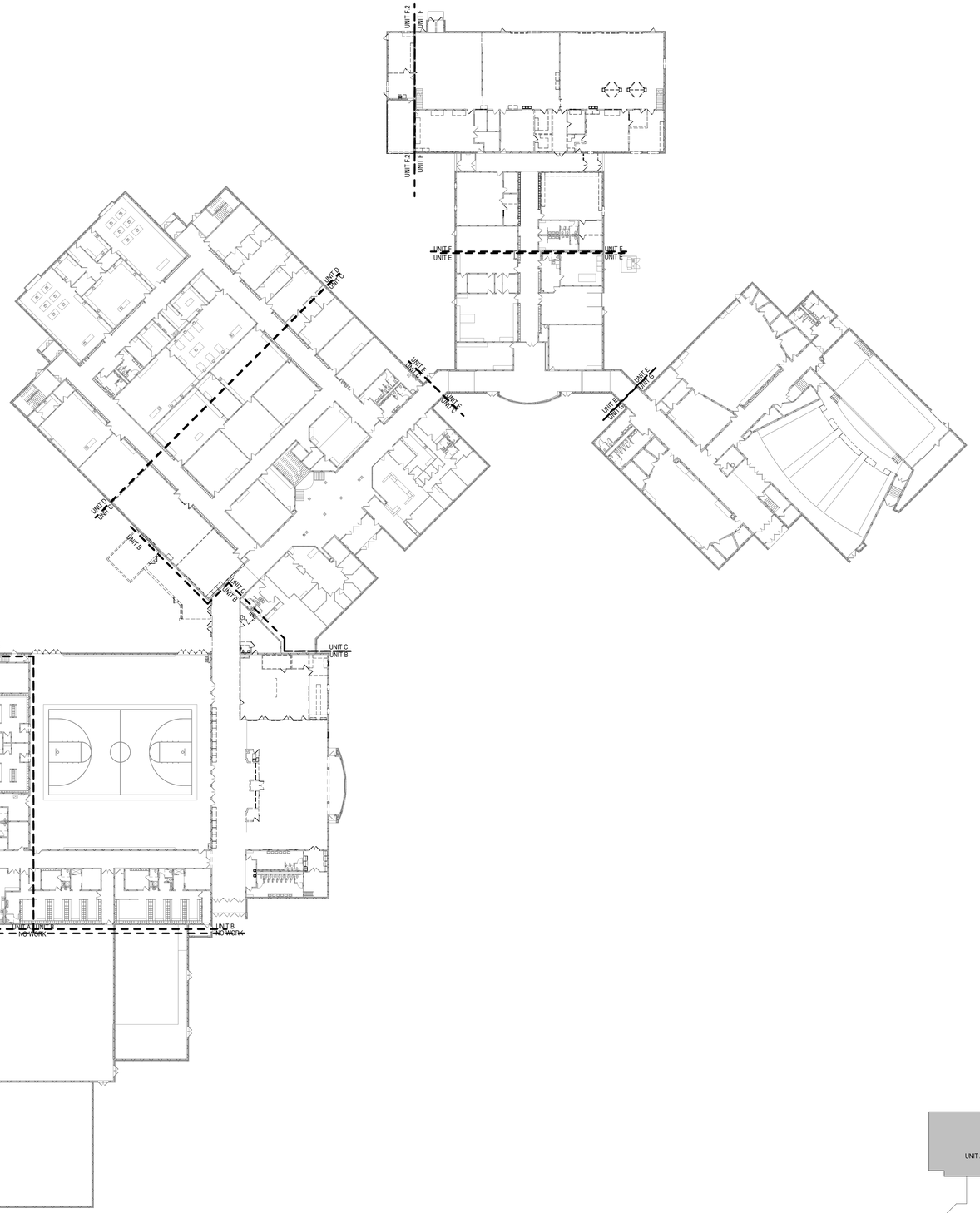


4A OVERALL FIRST FLOOR DEMO PLAN
A0.1 Scale: 1" = 30'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME

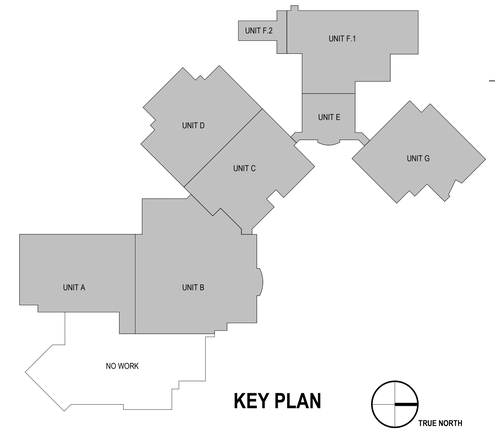
EX. RM #		
	CMU+	EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+	RB	EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC	9'-0"	EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM.
SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL
COORDINATED WITH MEP DRAWINGS

1. OWNER IS RESPONSIBLE FOR REMOVAL OF ALL LOOSE FURNISHINGS PRIOR TO GENERAL DEMOLITION. ALL ITEMS INCLUDING DOORS, DOOR HARDWARE, CEILING TILES CONSIDERED SALVAGEABLE SHALL ALSO BE REMOVED BY THE OWNER PRIOR TO GENERAL DEMOLITION.
2. REMOVE ALL APPLIED FINISHES AND PREPARE SUBSTRATE FOR NEW FINISHES. SEE FINISH PLANS & INTERIOR FINISH LEGEND FOR FINISHES.
3. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
4. UNLESS NOTED OTHERWISE, PATCH ALL FLOORS, BASE, WALLS AND CEILINGS AT EXPOSED AREAS AFFECTED BY DEMOLITION REGARDLESS OF TRADE DOING THE DEMOLITION WORK. PATCH TO MATCH ADJACENT EXISTING CONSTRUCTION WHERE SPECIFIC INFORMATION IS NOT NOTED OR SCHEDULED. REFER TO FINISH PLANS.
5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
6. SEE FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION INFORMATION WHICH MAY NOT BE INDICATED ON DEMOLITION PLANS AND TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
7. SEE PROJECT MANUAL AND PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR ANY REQUIRED DEMOLITION OF PLUMBING, HVAC AND ELECTRICAL EQUIPMENT/MATERIALS PERFORMED BY THOSE TRADES.
8. REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

KEYNOTE LEGEND



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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Project Number:
3705

Sheet Title:
FIRST FLOOR DEMOLITION PLAN

Sheet Number:
A0.1

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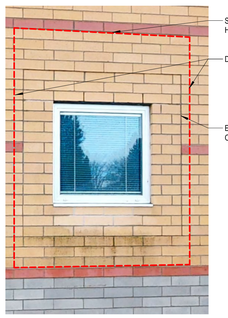
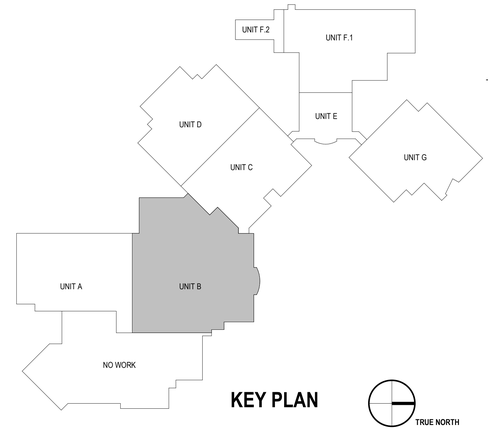


6E DEMO SCOPE REFRENCE

A0.1B Scale: 3/8" = 1'-0"

A4 FIRST FLOOR DEMO PLAN - UNIT B

A0.1B Scale: 1/8" = 1'-0"



KEY PLAN

TRUE NORTH

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
EX. RM #
CMU+ — EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+ | RB — EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC | 9'-0" — EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM. SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL COORDINATED WITH MEP DRAWINGS

1. OWNER IS RESPONSIBLE FOR REMOVAL OF ALL LOOSE FURNISHINGS PRIOR TO GENERAL DEMOLITION. ALL ITEMS INCLUDING DOORS, DOOR HARDWARE, CEILING TILES CONSIDERED SALVAGEABLE SHALL ALSO BE REMOVED BY THE OWNER PRIOR TO GENERAL DEMOLITION.
2. REMOVE ALL APPLIED FINISHES AND PREPARE SUBSTRATE FOR NEW FINISHES. SEE FINISH PLANS & INTERIOR FINISH LEGEND FOR FINISHES.
3. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
4. UNLESS NOTED OTHERWISE, PATCH ALL FLOORS, BASE, WALLS AND CEILINGS AT EXPOSED AREAS AFFECTED BY DEMOLITION REGARDLESS OF TRADE DOING THE DEMOLITION WORK. PATCH TO MATCH ADJACENT EXISTING CONSTRUCTION WHERE SPECIFIC INFORMATION IS NOT NOTED OR SCHEDULED. REFER TO FINISH PLANS.
5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
6. SEE FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION INFORMATION WHICH MAY NOT BE INDICATED ON DEMOLITION PLANS AND TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
7. SEE PROJECT MANUAL AND PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR ANY REQUIRED DEMOLITION OF PLUMBING, HVAC AND ELECTRICAL EQUIPMENT/MATERIALS PERFORMED BY THOSE TRADES.
8. REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

KEYNOTE LEGEND

D01	REMOVE DOOR AND ASSOCIATED HARDWARE ONLY. DOOR FRAME TO REMAIN IN PLACE.
D03	REMOVE DOOR, DOOR HARDWARE, AND DOOR FRAME.
D06	REMOVE ACCORDION FOLDING DOOR AND ALL ASSOCIATED SUPPORTS AND HARDWARE.
D08	REMOVE DOOR OPERATOR
D11	REMOVE WINDOW, DEMOLISH WALL ABOVE AND / OR BELOW TO ACCEPT LARGER WINDOW, REFER TO ELEVATIONS.
D20	REMOVE WALLS, FULL HEIGHT. PATCH FLOOR AND CEILING TO RECEIVE NEW FINISHES.
D21	REMOVE PORTION OF WALL FOR NEW DOOR OR OPENING LOCATION.
D22	REMOVE PORTION OF WALL FOR NEW WINDOW FRAME.
D28	REMOVE EXISTING WALL BASE, REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH
D34	REMOVE FLOOR FINISH AND WALL BASE, REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH.
D35	REMOVE ALL TILE AND TILE BEDDING ON FLOORS. INFILL CONCRETE FLOOR WHERE TILE BED WAS REMOVED TO PROVIDE A FLUSH CONCRETE SLAB FOR NEW FINISHES.
D50	REMOVE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D54	REMOVE BUILT IN DISPLAY CASE, GLASS DOORS, AND WOOD TRIM.
D55	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D80	REMOVE SHELVING, STANDARDS, AND ALL ASSOCIATED HARDWARE.
D81	REMOVE FIRE EXTINGUISHER CABINET.
D82	REMOVE LOCKERS AND CONCRETE CURB. PATCH FLOOR TO RECEIVE NEW FINISHES.
D83	REMOVE ALL TOILET PARTITIONS, TOILET ACCESSORIES, AND ASSOCAITED HARDWARE / SUPPORTS.
D87	REMOVE KITCHEN EQUIPMENT. PATCH FLOOR AND CEILING TO RECEIVE NEW FINISHES.
D88	REMOVE MOUNTED MONITOR AND ALL ASSOCIATED HARDWARE. SALVAGE AND RETURN TO OWNER.
D103	REMOVE FREEZER AND ALL ASSOCIATED HARDWARE. SALVAGED TO BE REINSTALLED.

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UNIT B - FIRST FLOOR DEMO PLAN

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KEYNOTE LEGEND

D02	REMOVE DOOR, DOOR FRAME, SIDELITE FRAME, TRANSOM WINDOW AND WOOD PANELING.
D06	REMOVE ACCORDION FOLDING DOOR AND ALL ASSOCIATED SUPPORTS AND HARDWARE.
D21	REMOVE PORTION OF WALL FOR NEW DOOR OR OPENING LOCATION.
D22	REMOVE PORTION OF WALL FOR NEW WINDOW FRAME.
D34	REMOVE FLOOR FINISH AND WALL BASE, REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH.
D50	REMOVE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D55	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D59	REMOVE AND REPLACE PORTION OF EXISTING PRECAST FLOOR FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D89	REMOVE DISPLAY BOARD (TACKBOARD / WHITEBOARD / CHALKBOARD) RETURN TO OWNER. PATCH AND PREP WALL TO REVEIVE NEW FINISHES.

GENERAL DEMOLITION NOTES

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5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
6. SEE FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION INFORMATION WHICH MAY NOT BE INDICATED ON DEMOLITION PLANS AND TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
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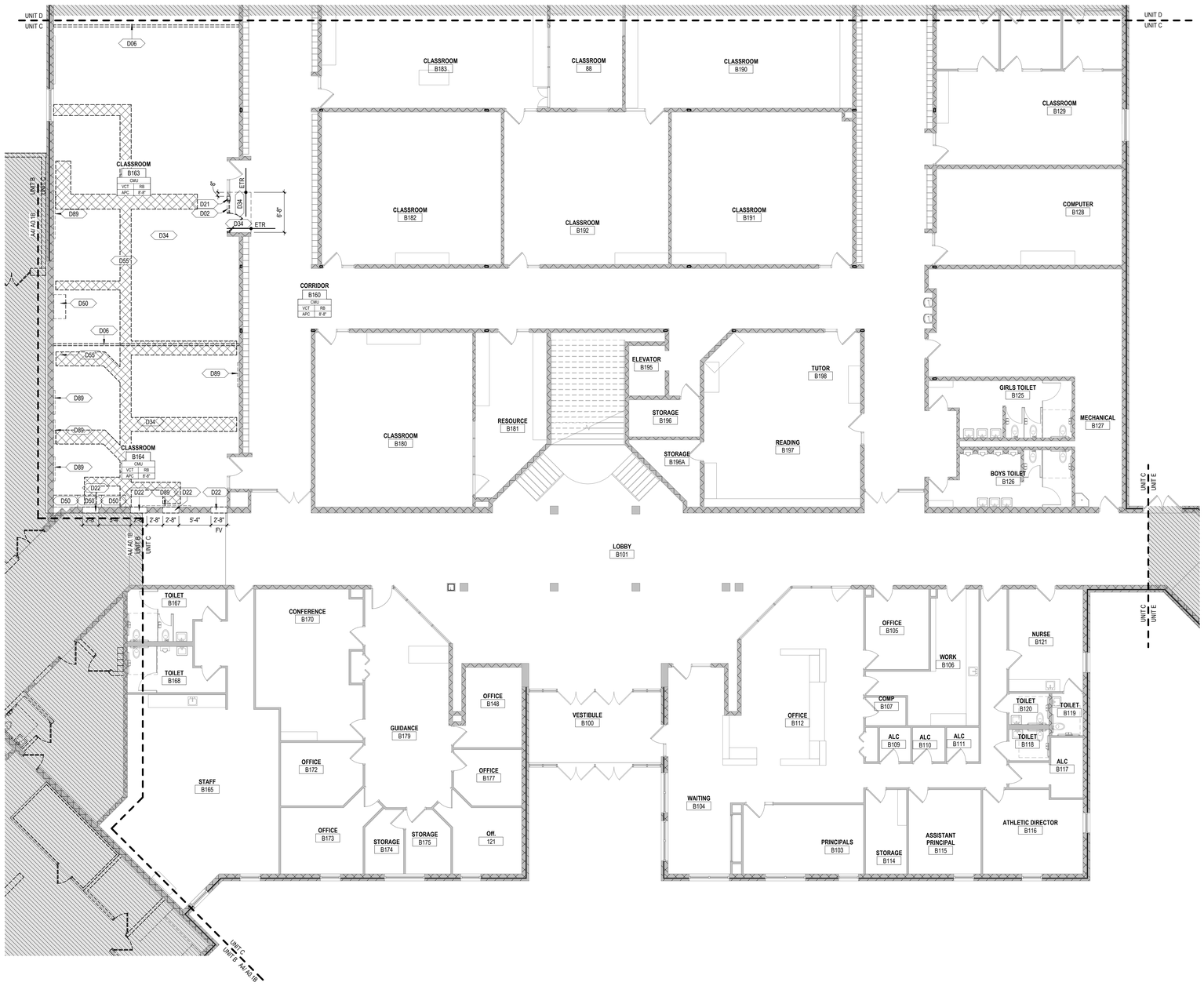
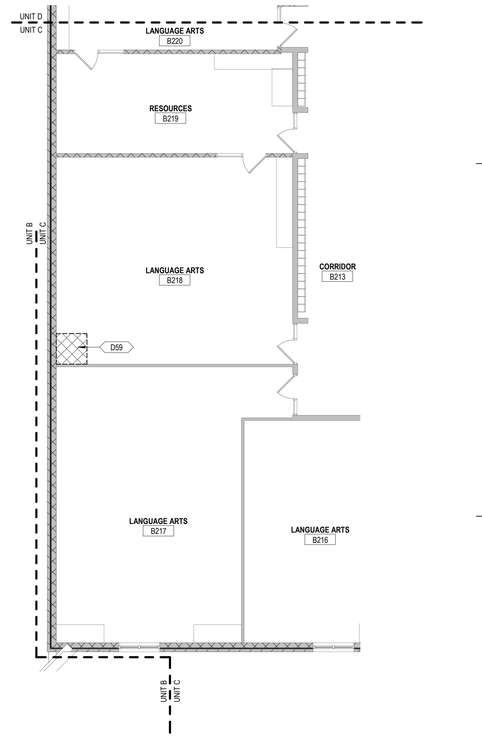
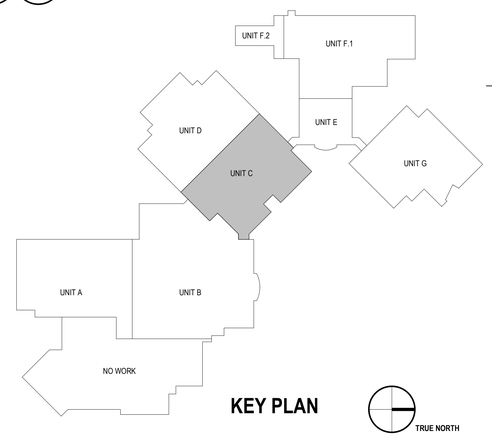


5A A0.1C FIRST FLOOR DEMO PLAN - UNIT C
Scale: 1/8" = 1'-0"



2B A0.1C SECOND FLOOR DEMO PLAN - PARTIAL UNIT C
Scale: 1/8" = 1'-0"



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
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T: 414.226.0200
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UNIT C - FIRST FLOOR DEMO PLAN

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GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
EX. RM #
CMU+ — EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+ | RB — EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC | 9'-0" — EXISTING CEILING HEIGHT

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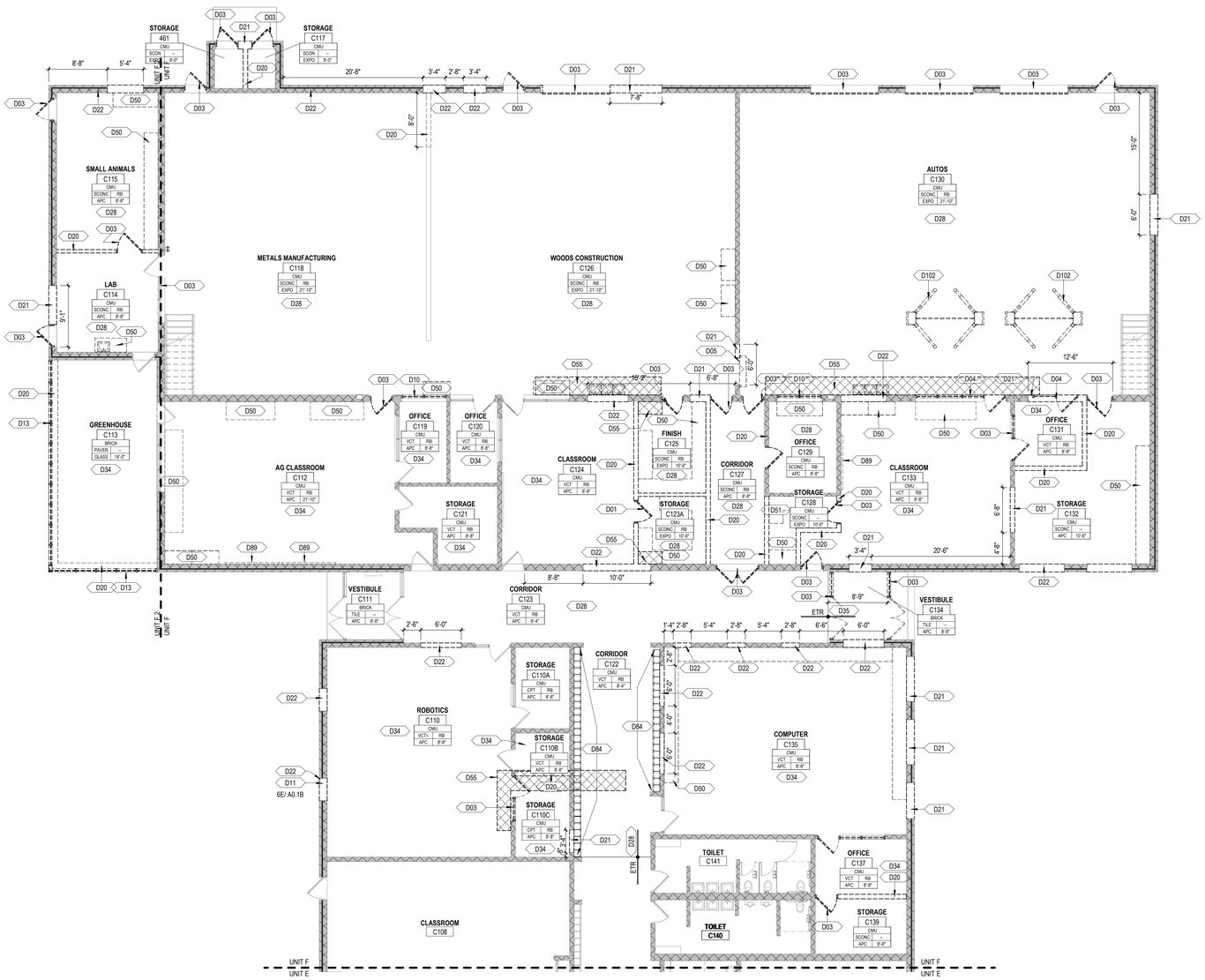
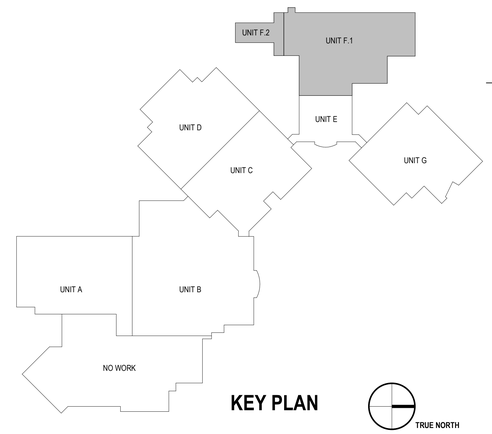
KEYNOTE LEGEND

D01	REMOVE DOOR AND ASSOCIATED HARDWARE ONLY. DOOR FRAME TO REMAIN IN PLACE.
D03	REMOVE DOOR, DOOR HARDWARE, AND DOOR FRAME.
D04	REMOVE DOOR, DOOR HARDWARE, DOOR FRAME, AND ADJACENT SIDE LITES.
D05	REMOVE SHUTTER, JAMB TRACKS, AND OVERHEAD SHUTTER HOUSING.
D10	REMOVE WINDOW, PATCH AND PREP FOR NEW INFILL/WINDOW.
D11	REMOVE WINDOW, DEMOLISH WALL ABOVE AND / OR BELOW TO ACCEPT LARGER WINDOW, REFER TO ELEVATIONS.
D13	REMOVE STOREFRONT SYSTEM.
D20	REMOVE WALLS, FULL HEIGHT. PATCH FLOOR AND CEILING TO RECEIVE NEW FINISHES.
D21	REMOVE PORTION OF WALL FOR NEW DOOR OR OPENING LOCATION.
D22	REMOVE PORTION OF WALL FOR NEW WINDOW FRAME.
D28	REMOVE EXISTING WALL BASE. REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH
D34	REMOVE FLOOR FINISH AND WALL BASE. REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH.
D35	REMOVE ALL TILE AND TILE BEDDING ON FLOORS. INFILL CONCRETE FLOOR WHERE TILE BED WAS REMOVED TO PROVIDE A FLUSH CONCRETE SLAB FOR NEW FINISHES.
D50	REMOVE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D51	REMOVE AND SALVAGE ARCHITECTURAL WOODWORK INCLUDING BASE CABINETS, UPPER CABINETS, AND/OR COUNTERTOPS.
D55	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D84	REMOVE LOCKERS. REMOVE WOOD BASE AND PREP FLOOR TO RECEIVE NEW FINISHES.
D89	REMOVE DISPLAY BOARD (TACKBOARD / WHITEBOARD / CHALKBOARD) RETURN TO OWNER. PATCH AND PREP WALL TO REVEIVE NEW FINISHES.
D102	REMOVE CAR LIFT AND ALL ASSOCIATED SUPPORTS. SALVAGE TO BE REINSTALLED.



4A / A0.1F — FIRST FLOOR DEMO PLAN - UNIT F
Scale: 1/8" = 1'-0"



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UNIT F - FIRST FLOOR DEMO PLAN

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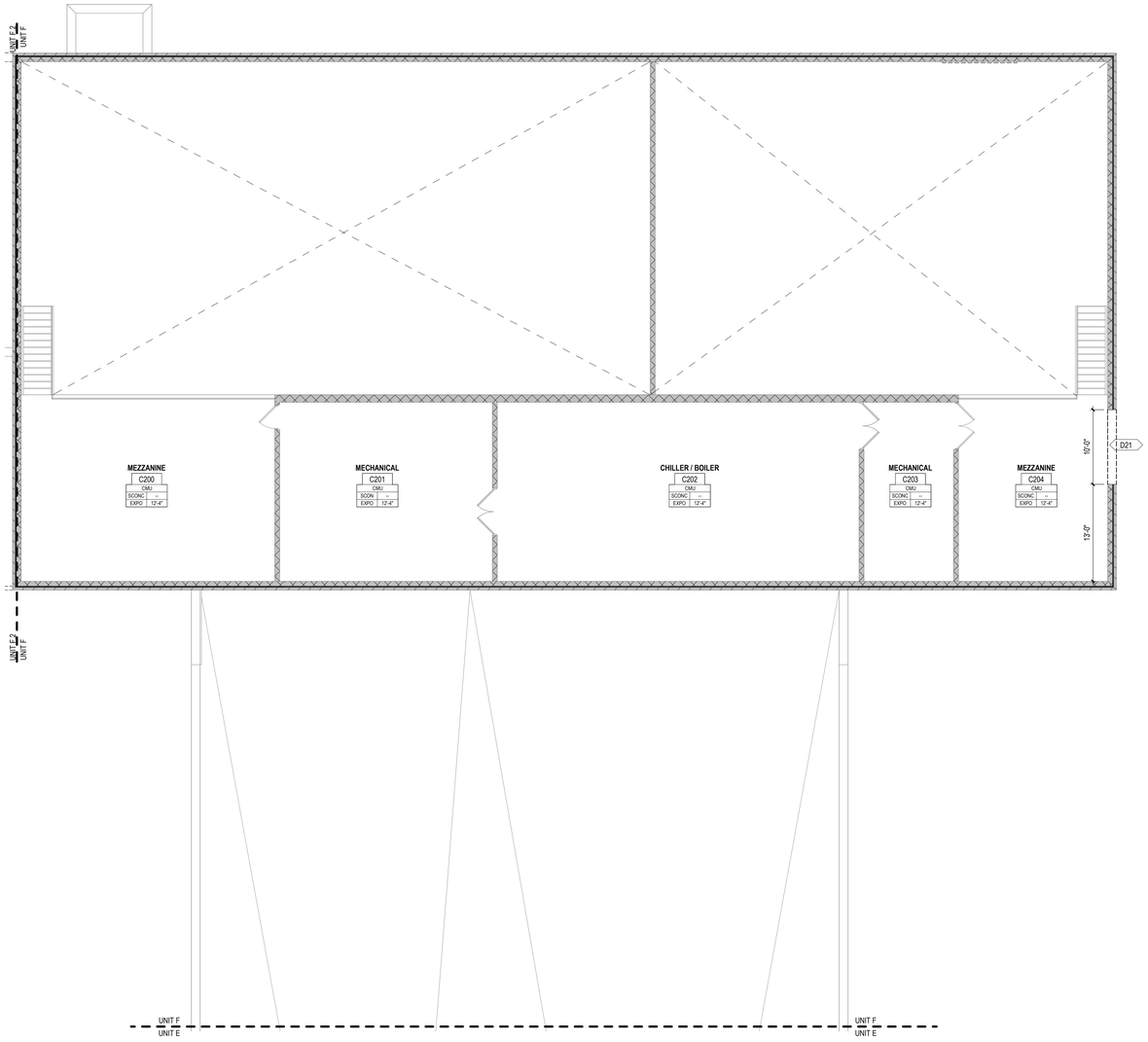

6A A0.2F MEZZANINE FLOOR DEMO PLAN - UNIT F

Scale: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
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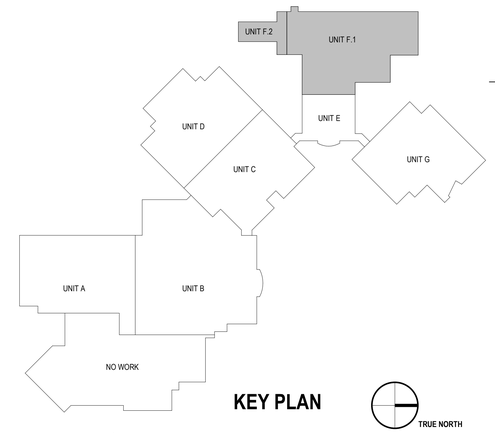
KEYNOTE LEGEND

D21	REMOVE PORTION OF WALL FOR NEW DOOR OR OPENING LOCATION.



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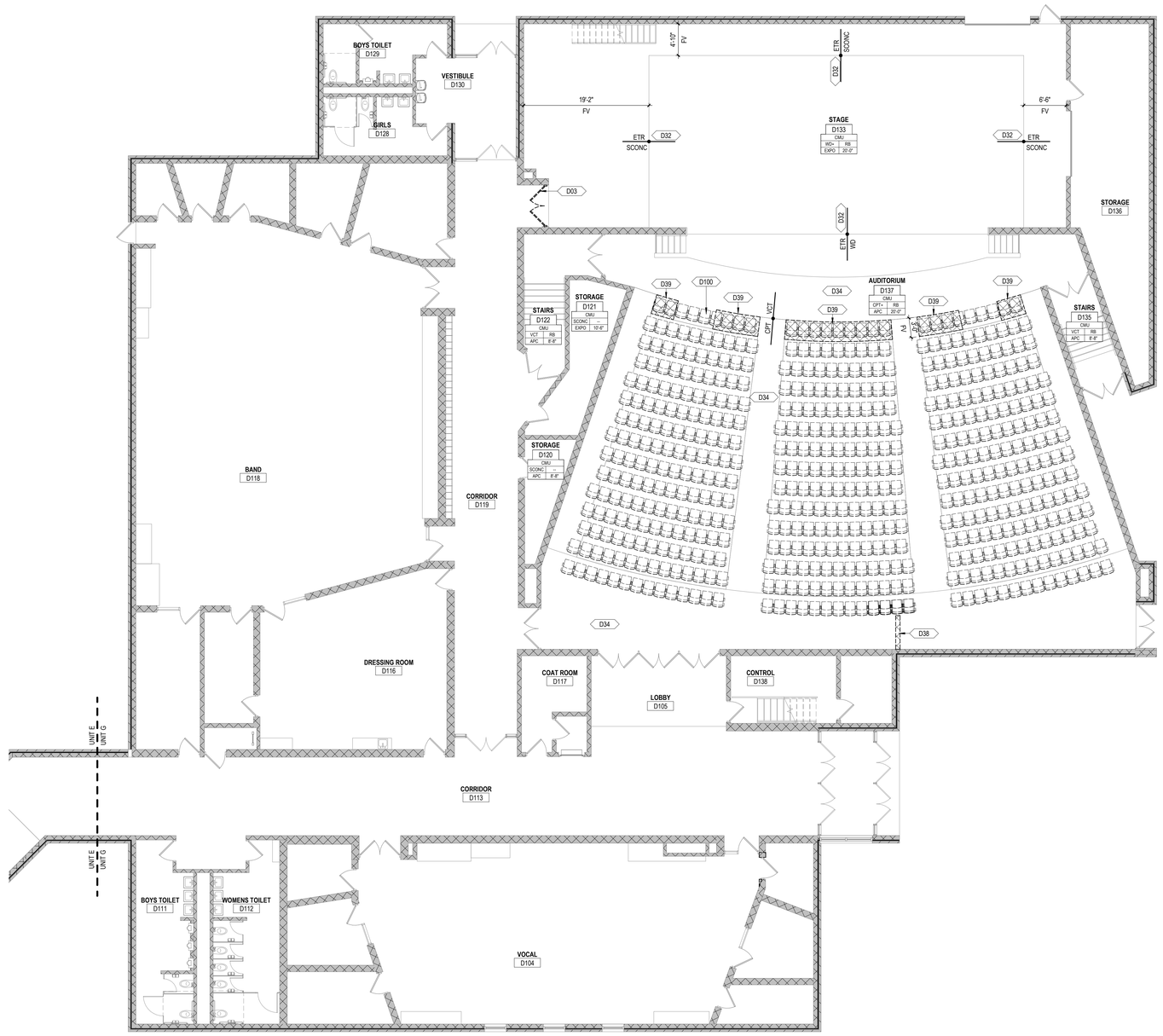

4A / A0.1G FIRST FLOOR DEMO PLAN - UNIT G

Scale: 1/8" = 1'-0"

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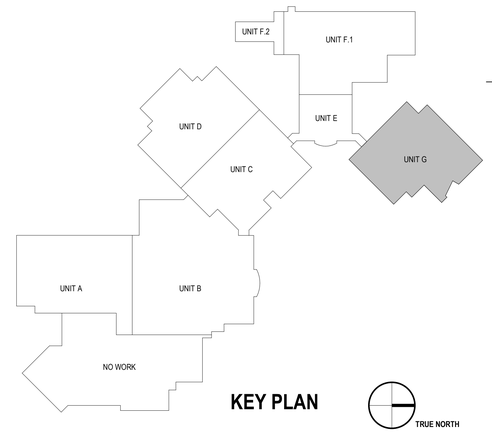
7. SEE PROJECT MANUAL AND PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR ANY REQUIRED DEMOLITION OF PLUMBING, HVAC AND ELECTRICAL EQUIPMENT/MATERIALS PERFORMED BY THOSE TRADES.
8. REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

KEYNOTE LEGEND

D03	REMOVE DOOR, DOOR HARDWARE, AND DOOR FRAME.
D32	REMOVE PORTION OF STAGE FLOOR. PREP TO RECEIVE NEW FLOORING
D34	REMOVE FLOOR FINISH AND WALL BASE. REMOVE ANY ADHESIVE AND PREP FOR NEW FINISH.
D38	REMOVE AND REPLACE PORTION OF EXISTING CONCRETE SLAB FOR NEW MEP. SEE MEP DRAWINGS FOR EXTENTS OF REMOVAL REQUIRED.
D39	REMOVE PORTION OF SLOPED FLOOR. PREP TO RECEIVE NEW FINISHES.
D100	REMOVE THEATER SEATING AND ASSOCIATED HARDWARE, SALVAGE AND RETURN TO OWNER. PATCH FLOOR TO RECEIVE NEW FINISHES.



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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UNIT G - FIRST FLOOR DEMO PLAN

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A0.1G

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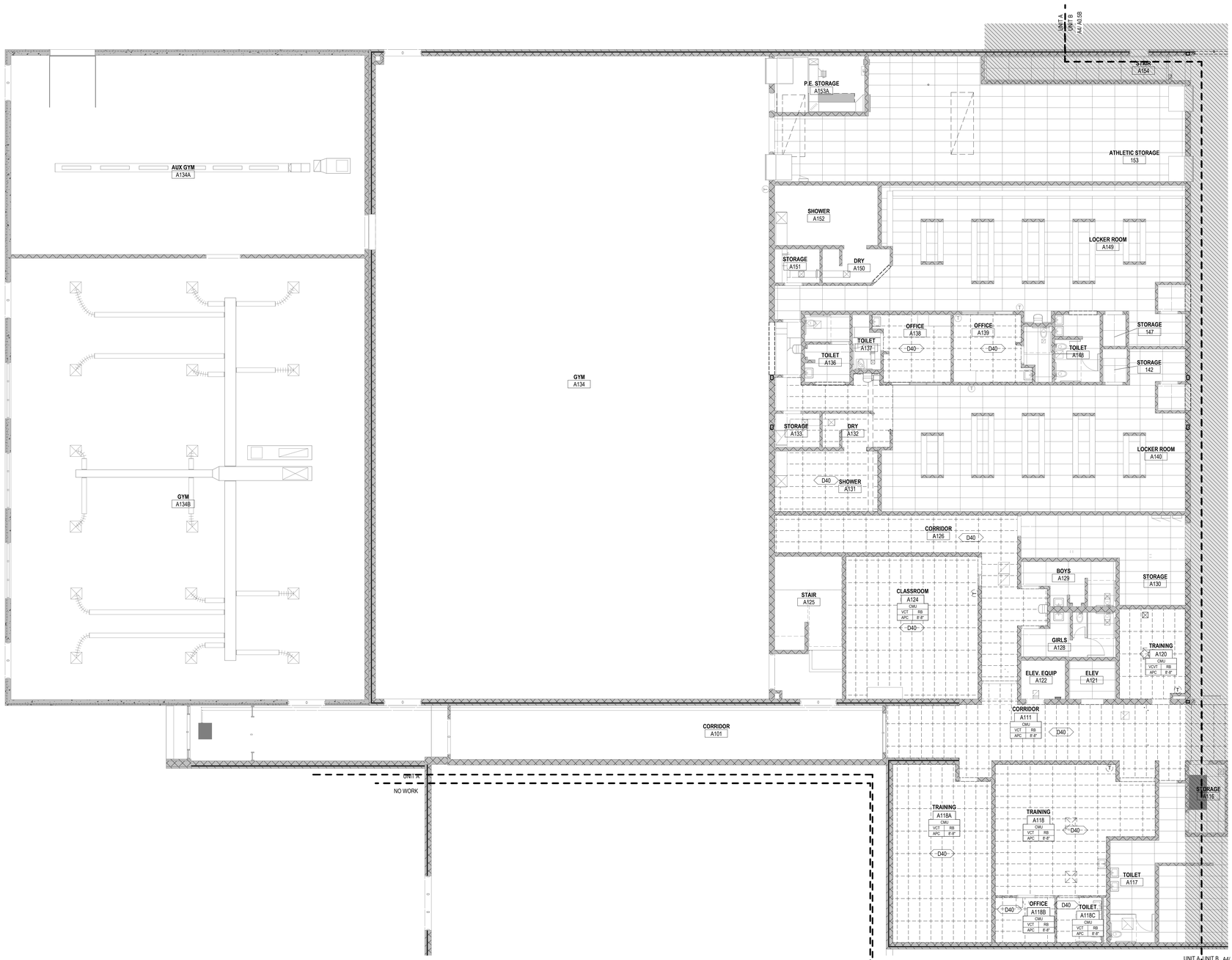

6A A0.5A UNIT A - FIRST FLOOR RCP - DEMO

Scale: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
EX. RM #
CMU+ — EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+ | RB — EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC | 9'-0" — EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM.
SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL
COORDINATED WITH MEP DRAWINGS

1. OWNER IS RESPONSIBLE FOR REMOVAL OF ALL LOOSE FURNISHINGS PRIOR TO GENERAL DEMOLITION. ALL ITEMS INCLUDING DOORS, DOOR HARDWARE, CEILING TILES CONSIDERED SALVAGEABLE SHALL ALSO BE REMOVED BY THE OWNER PRIOR TO GENERAL DEMOLITION.
2. REMOVE ALL APPLIED FINISHES AND PREPARE SUBSTRATE FOR NEW FINISHES. SEE FINISH PLANS & INTERIOR FINISH LEGEND FOR FINISHES.
3. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
4. UNLESS NOTED OTHERWISE, PATCH ALL FLOORS, BASE, WALLS AND CEILINGS AT EXPOSED AREAS AFFECTED BY DEMOLITION REGARDLESS OF TRADE DOING THE DEMOLITION WORK. PATCH TO MATCH ADJACENT EXISTING CONSTRUCTION WHERE SPECIFIC INFORMATION IS NOT NOTED OR SCHEDULED. REFER TO FINISH PLANS.
5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
6. SEE FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION INFORMATION WHICH MAY NOT BE INDICATED ON DEMOLITION PLANS AND TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
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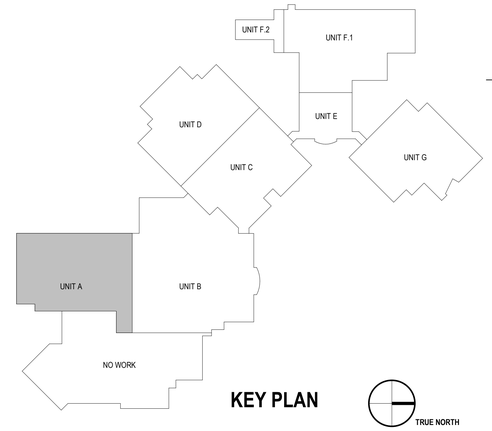
KEYNOTE LEGEND

D40	REMOVE ACOUSTICAL CEILING TILES, GRID AND ALL ASSOCIATED SUPPORTS.



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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WHITEWATER UNIFIED SCHOOL DISTRICT
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UNIT A - FIRST FLOOR DEMO RCP

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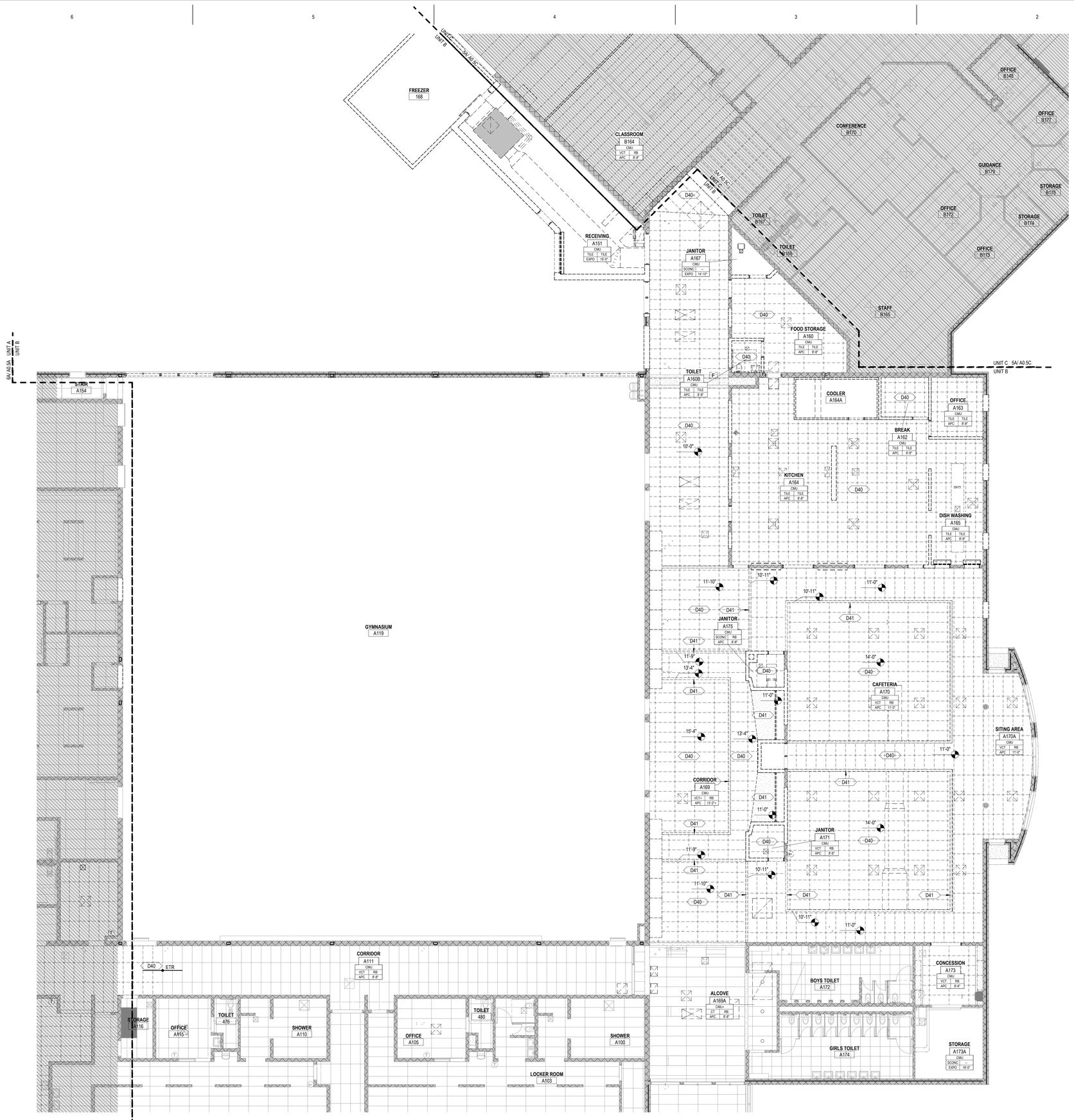

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
EX. RM #
CMU+ — EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+ | RB — EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC | 9'-0" — EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM.
SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL
COORDINATED WITH MEP DRAWINGS

1. OWNER IS RESPONSIBLE FOR REMOVAL OF ALL LOOSE FURNISHINGS PRIOR TO GENERAL DEMOLITION. ALL ITEMS INCLUDING DOORS, DOOR HARDWARE, CEILING TILES CONSIDERED SALVAGEABLE SHALL ALSO BE REMOVED BY THE OWNER PRIOR TO GENERAL DEMOLITION.
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5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
6. SEE FLOOR PLANS, ELEVATIONS, SECTIONS AND DETAILS FOR ADDITIONAL DEMOLITION INFORMATION WHICH MAY NOT BE INDICATED ON DEMOLITION PLANS AND TO COORDINATE EXTENT OF DEMOLITION REQUIRED.
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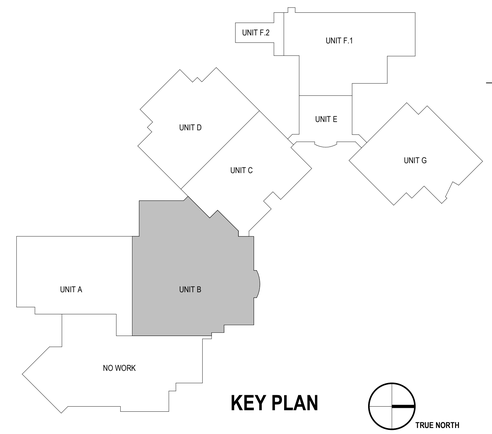
KEYNOTE LEGEND

D40	REMOVE ACOUSTICAL CEILING TILES, GRID AND ALL ASSOCIATED SUPPORTS.
D41	REMOVE GYPSUM BOARD CEILING/BULKHEAD/SOFFIT AND ALL ASSOCIATED STRUCTURE/SUPPORT.



KEY PLAN

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A4 / A0.5B — UNIT B - FIRST FLOOR RCP - DEMO
Scale: 1/8" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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WHITEWATER UNIFIED SCHOOL DISTRICT
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WHITEWATER, WI 53190

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UNIT B - FIRST FLOOR DEMO RCP

Sheet Number:
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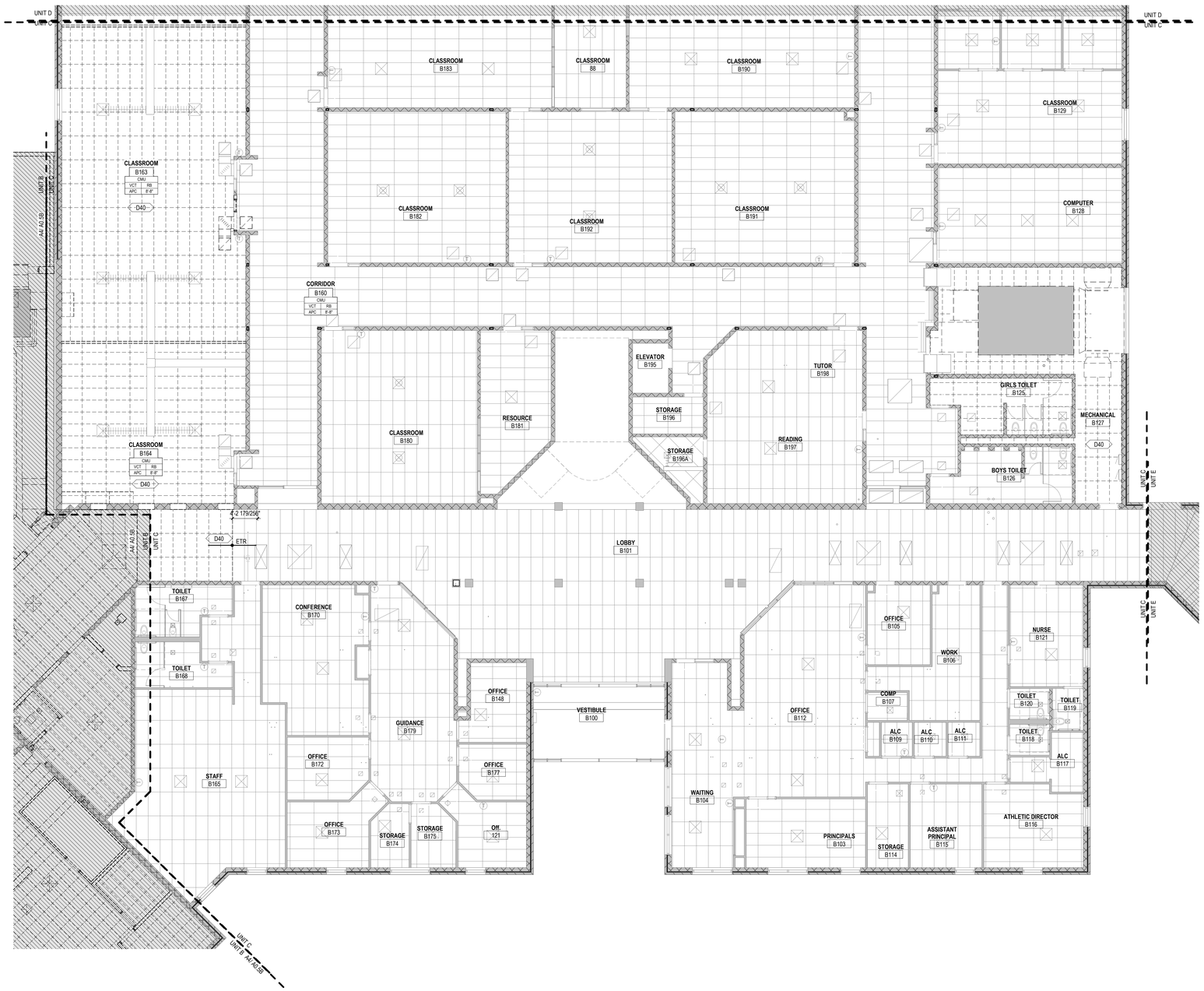
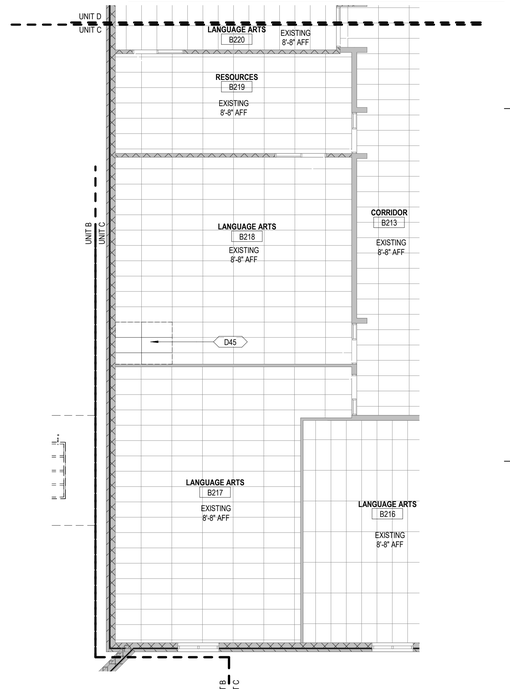


5A A0.5C UNIT C - FIRST FLOOR RCP - DEMO
Scale: 1/8" = 1'-0"



1B A0.5C UNIT G - PARTIAL SECOND FLOOR RCP - DEMO
Scale: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME
EX. RM #
CMU+ — EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+ — RB — EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC — 9'-0" — EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM.
SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL
COORDINATED WITH MEP DRAWINGS

1. OWNER IS RESPONSIBLE FOR REMOVAL OF ALL LOOSE FURNISHINGS PRIOR TO GENERAL DEMOLITION. ALL ITEMS INCLUDING DOORS, DOOR HARDWARE, CEILING TILES CONSIDERED SALVAGEABLE SHALL ALSO BE REMOVED BY THE OWNER PRIOR TO GENERAL DEMOLITION.
2. REMOVE ALL APPLIED FINISHES AND PREPARE SUBSTRATE FOR NEW FINISHES. SEE FINISH PLANS & INTERIOR FINISH LEGEND FOR FINISHES.
3. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
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5. DISPOSE OF ALL BUILDING MATERIAL IN LAWFUL MANNER.
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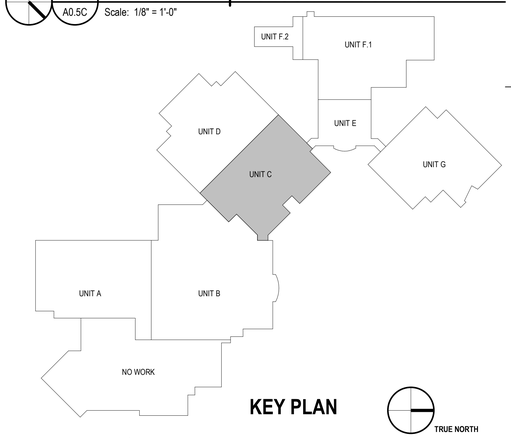
KEYNOTE LEGEND

D40	REMOVE ACOUSTICAL CEILING TILES, GRID AND ALL ASSOCIATED SUPPORTS.
D45	REMOVE CEILING TILE AND CEILING GRID TO NEAREST GRIDLINE TO PERFORM WORK



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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UNIT C - FIRST FLOOR DEMO RCP

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A0.5C

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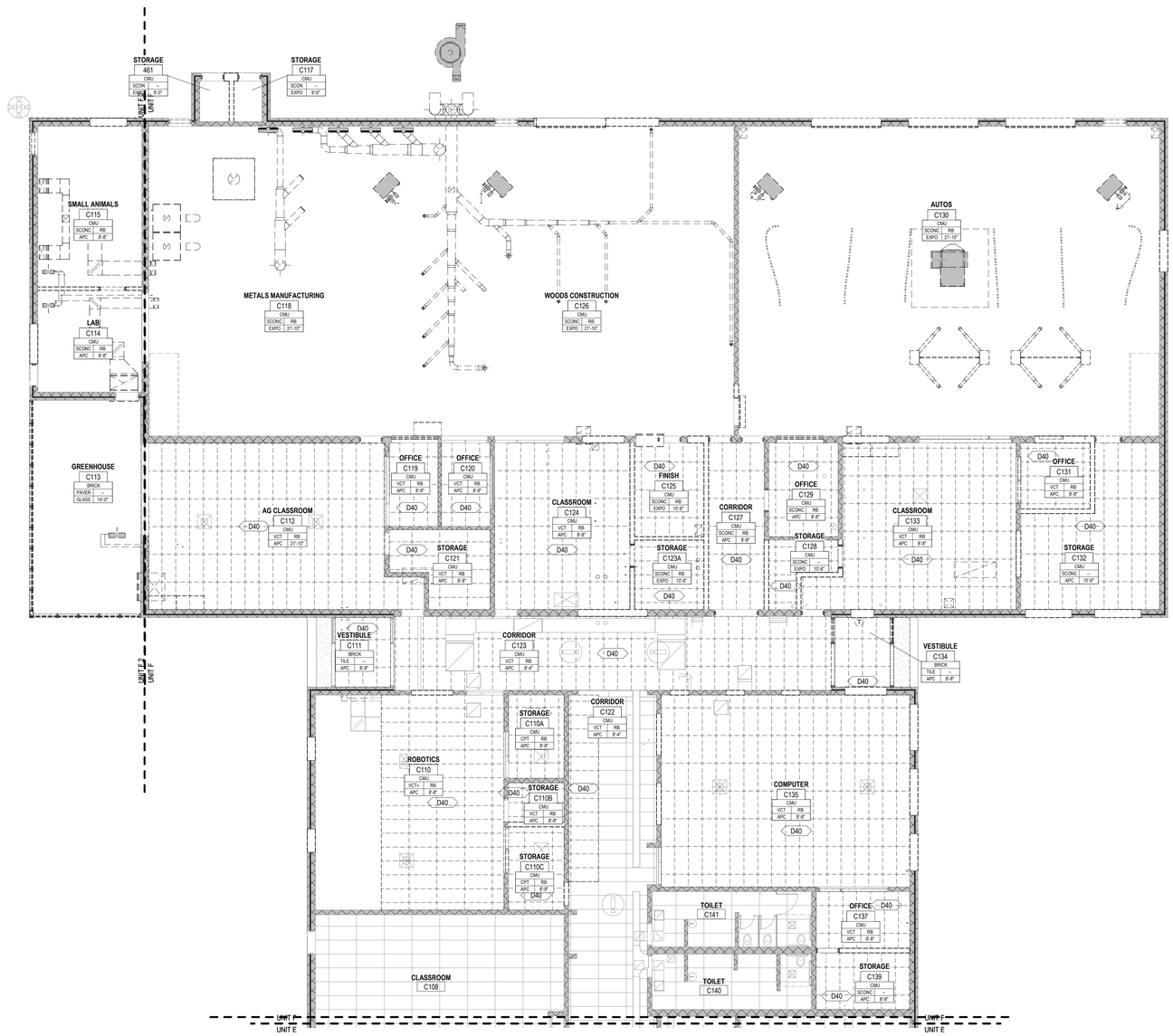

4A / A0.5F UNIT F - FIRST FLOOR RCP - DEMO

Scale: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:

EXISTING ROOM NAME

EX. RM #		
	CMU+	EXISTING WALL MATERIAL
EXISTING FLOOR FINISH — CPT+	RB	EXISTING WALL BASE TYPE
EXISTING CEILING TYPE — APC	9'-0"	EXISTING CEILING HEIGHT

+ SYMBOL INDICATES MORE THAN ONE TYPE OF EXISTING FINISH IN ROOM.
SEE DEMOLITION PLANS FOR LOCATIONS OF ADDITIONAL FINISHES.

SLAB/FLOOR REMOVAL
COORDINATED WITH MEP DRAWINGS

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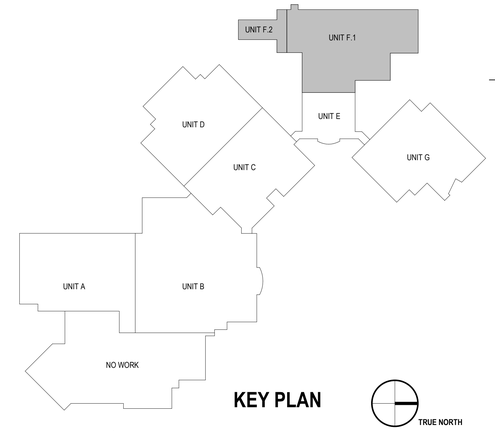
KEYNOTE LEGEND

D40	REMOVE ACOUSTICAL CEILING TILES, GRID AND ALL ASSOCIATED SUPPORTS.



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
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Sheboygan • Davenport
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WHITEWATER, WI 53190

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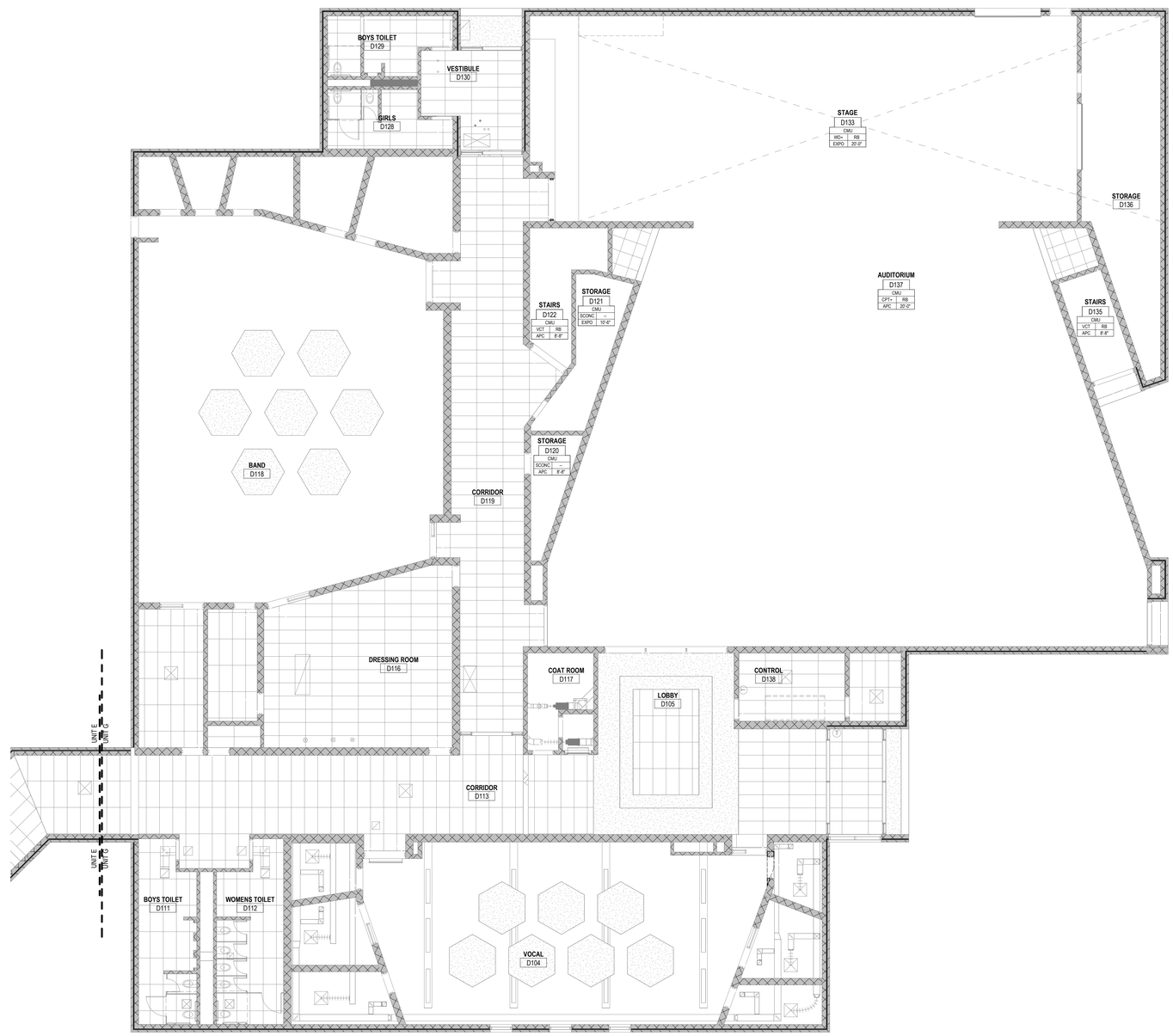
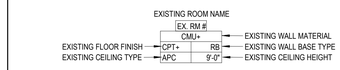


4A / A0.5G UNIT G - FIRST FLOOR RCP - DEMO

Scale: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES

EXISTING ROOM TAG LEGEND:



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SLAB/FLOOR REMOVAL COORDINATED WITH MEP DRAWINGS

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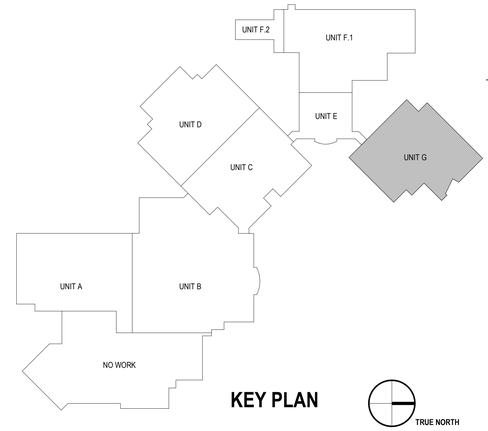
KEYNOTE LEGEND



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Milwaukee
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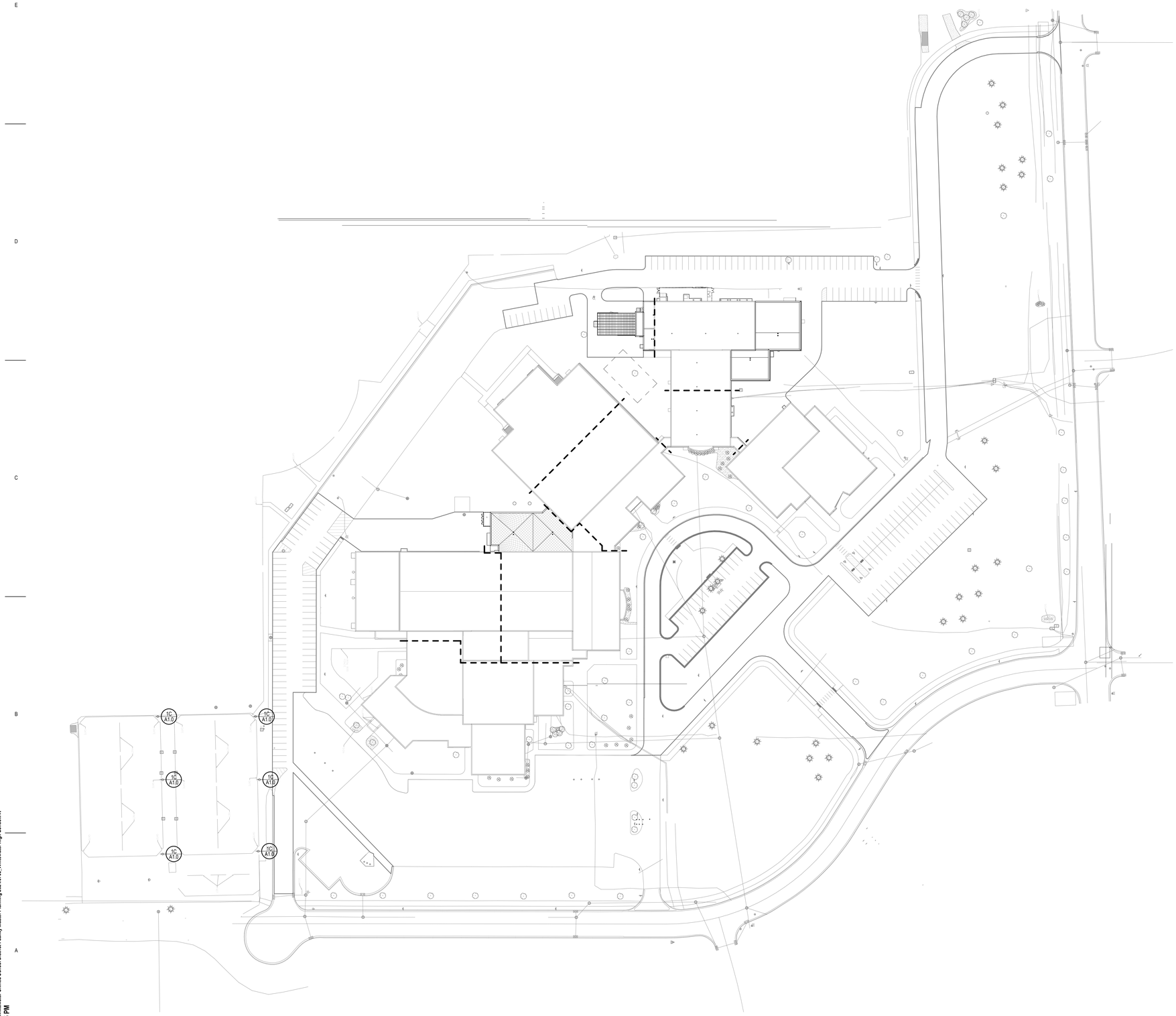
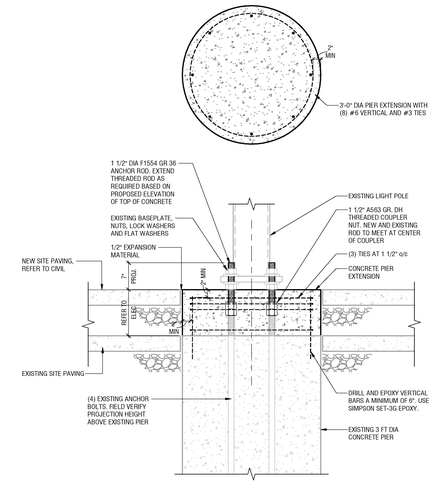
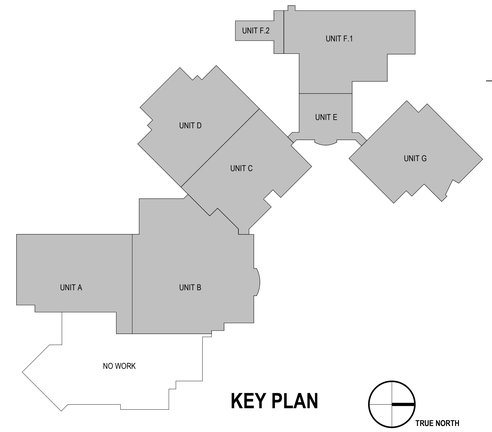


6A A1.0 ARCHITECTURAL SITE PLAN
Scale: 1" = 60'-0"



1C A1.0 STRUCTURAL - CONCRETE PIER EXTENSION
Scale: 3/4" = 1'-0"



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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ARCHITECTURAL SITE PLAN

Sheet Number:
A1.0

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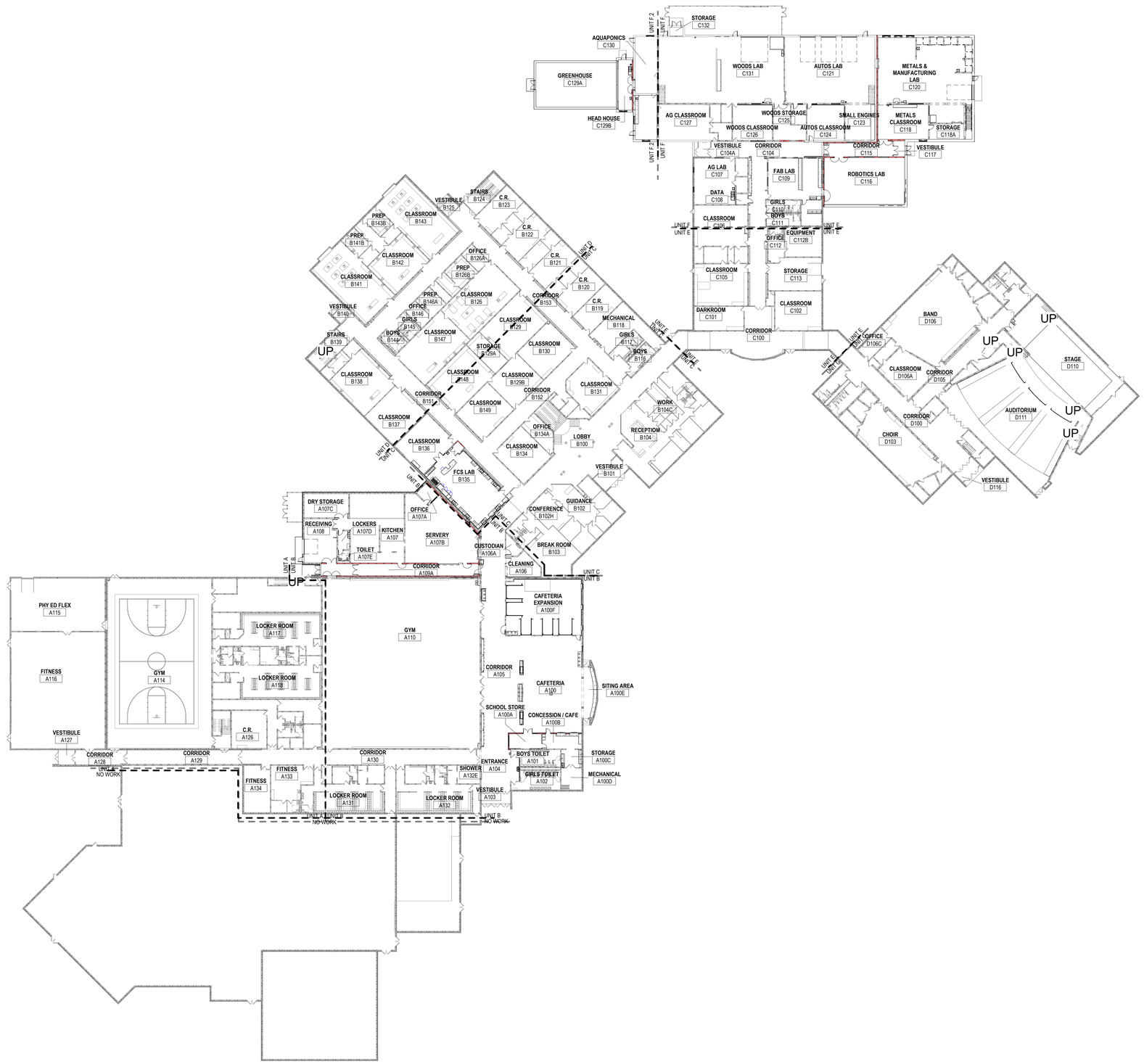

5A FIRST FLOOR PLAN - OVERALL
A1.1 Scale: 1" = 30'-0"

GENERAL NOTES

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4. REFER TO SHEET AG1.0 FOR TYPICAL MOUNTING HEIGHTS. REFER TO INTERIOR ELEVATION SHEETS FOR ROOM SPECIFIC FIXTURE MOUNTING HEIGHTS.
5. REFER TO SHEET A9.0 FOR FLOOR TRANSITION DETAILS.
6. REFER TO SHEET A9.0 FOR TYPICAL FLOOR/BASE CONDITIONS.
7. DIMENSIONS FOR INTERIOR STUD WALLS ARE TO FACE OF WALL. EXTERIOR STUD WALLS ARE DIMENSIONED TO INTERIOR FACE OF STUDS. CMU WALLS ARE DIMENSIONED TO FACE OF WALL.
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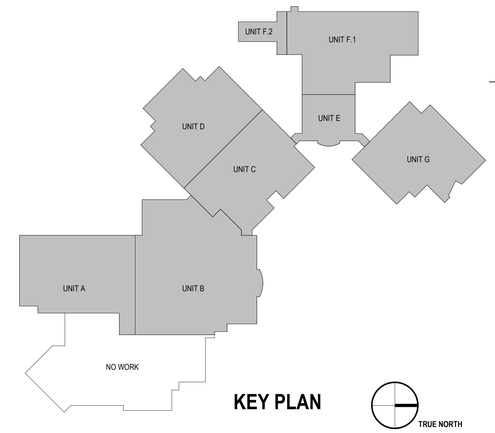
KEYNOTE LEGEND



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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OVERALL FIRST FLOOR PLAN

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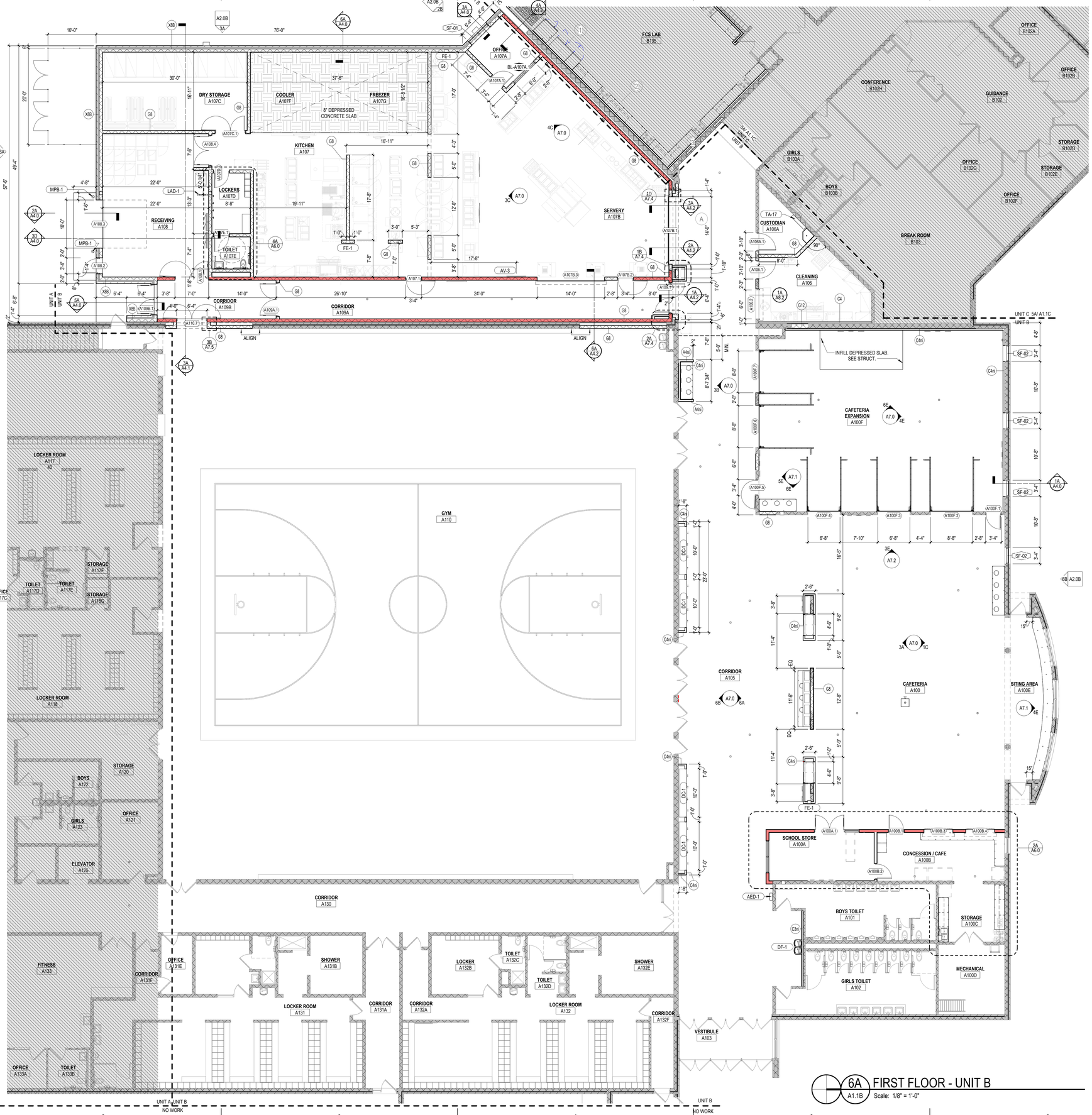
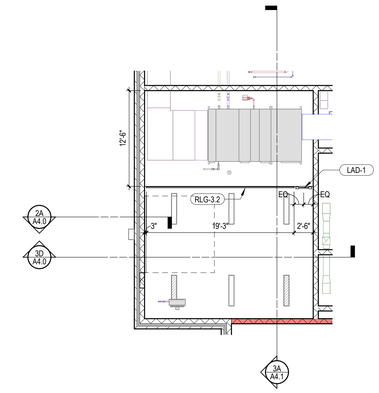
KEYNOTE LEGEND

AED-1	AUTOMATIC EXTERNAL DEFIBRILLATOR, CABINET, AND SIGN
AV-3	55" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
DC-1	DISPLAY CASE - RECESSED
DF-1	ELECTRIC WATER COOLER - SEE PLUMBING
FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
LAD-1	STEEL LADDER (INTERIOR ACCESS)
MPB-1	METAL (PIPE) BOLLARD - PT-7
RLG-3.2	PIPE AND TUBE GUARDRAIL
TA-17	CUSTODIAL MOP AND BROOM HOLDER



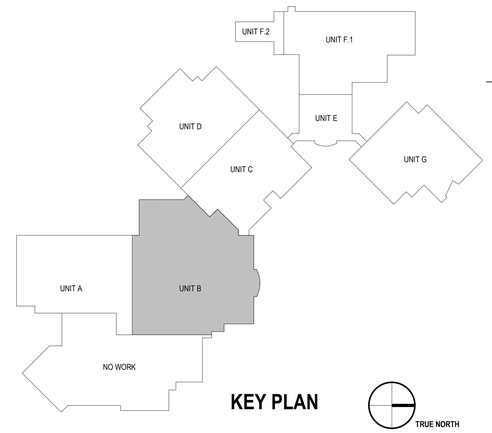
6A A1.1B FIRST FLOOR - UNIT B

Scale: 1/8" = 1'-0"



1C A1.1B UNIT B - PLATFORM

Scale: 1/8" = 1'-0"



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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

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UNIT B - FIRST FLOOR PLAN

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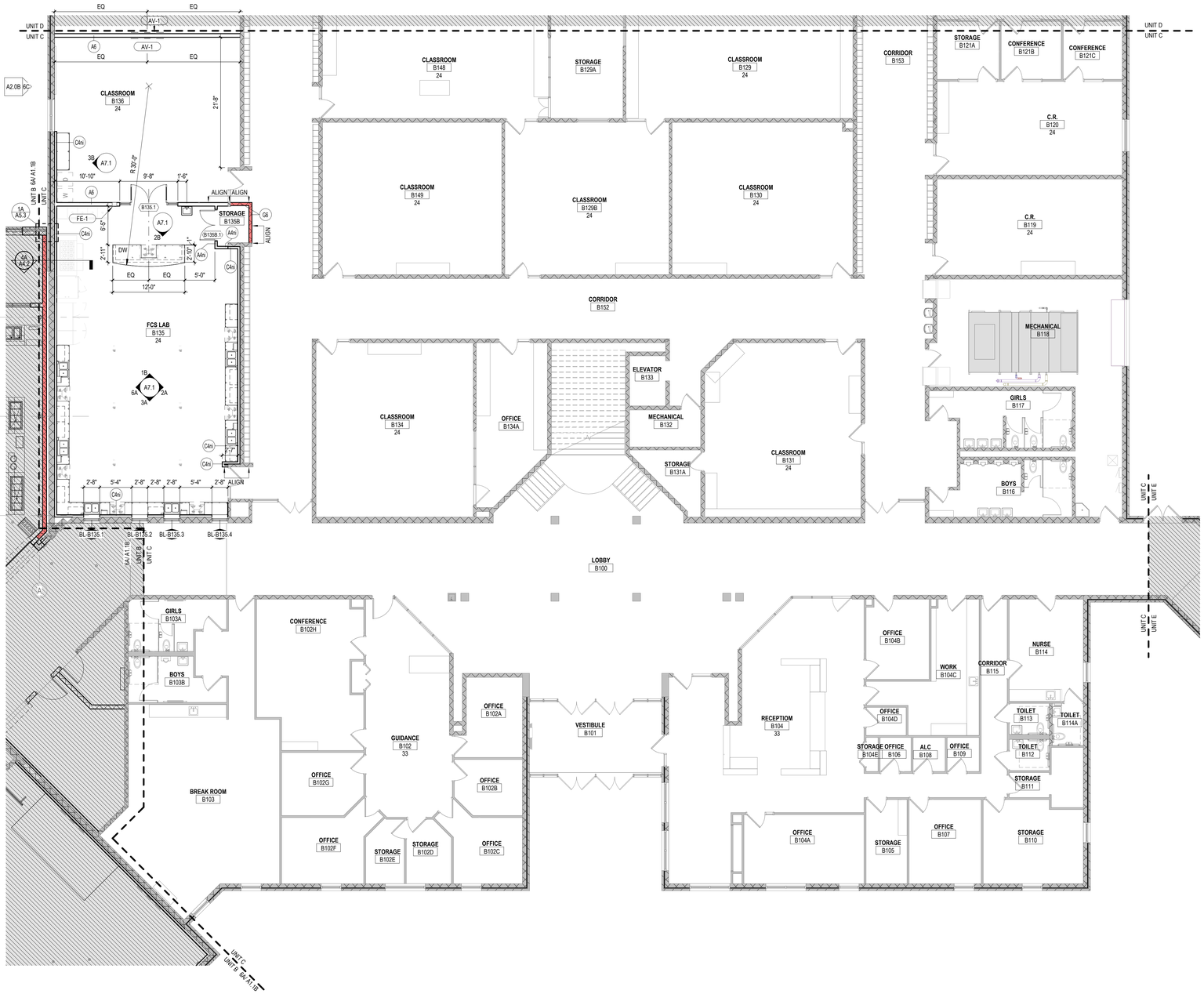
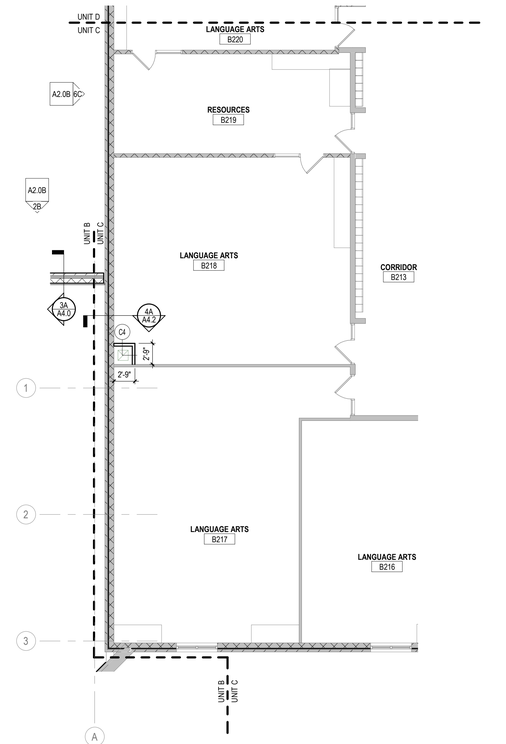
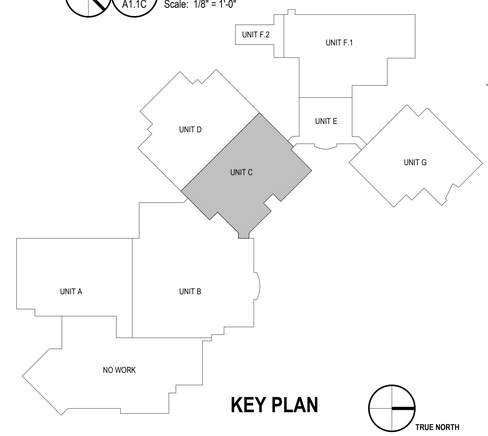


5A A1.1C FIRST FLOOR - UNIT C
Scale: 1/8" = 1'-0"



1B A1.1C SECOND FLOOR - PARTIAL UNIT C
Scale: 1/8" = 1'-0"



KEY PLAN

TRUE NORTH

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KEYNOTE LEGEND

AV-1	75" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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Sheet Title:
UNIT C - FIRST FLOOR PLAN

Sheet Number:
A1.1C

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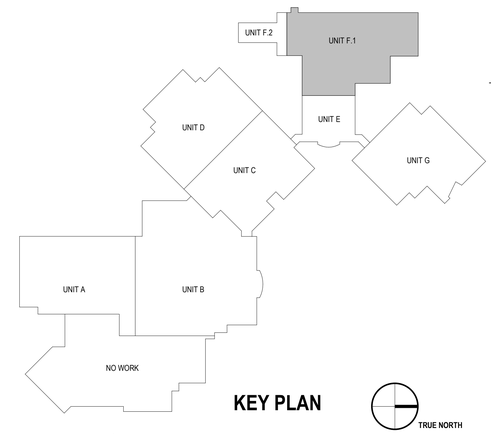
KEYNOTE LEGEND

AV-1	75" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-3	55" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
DC-1	DISPLAY CASE - RECESSED
FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
FE-4	FIRE EXTINGUISHER AND BRACKET
MPB-1	METAL (PIPE) BOLLARD - PT-7
OE-2	EXISTING CAR LIFT - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
P4	EXISTING BOLLARD. PATCH AND PAINT TO MATCH NEW - PT-7
SPB-1	SPRAY BOOTH - WALK-IN
SPB-2	SPRAY BOOTH - BENCH
WC-1	WELDING CURTAIN
WC-2	WELDING STRIP CURTAIN



5A A1.1F.1 FIRST FLOOR - UNIT F.1
Scale: 1/8" = 1'-0"



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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UNIT F - FIRST FLOOR PLAN

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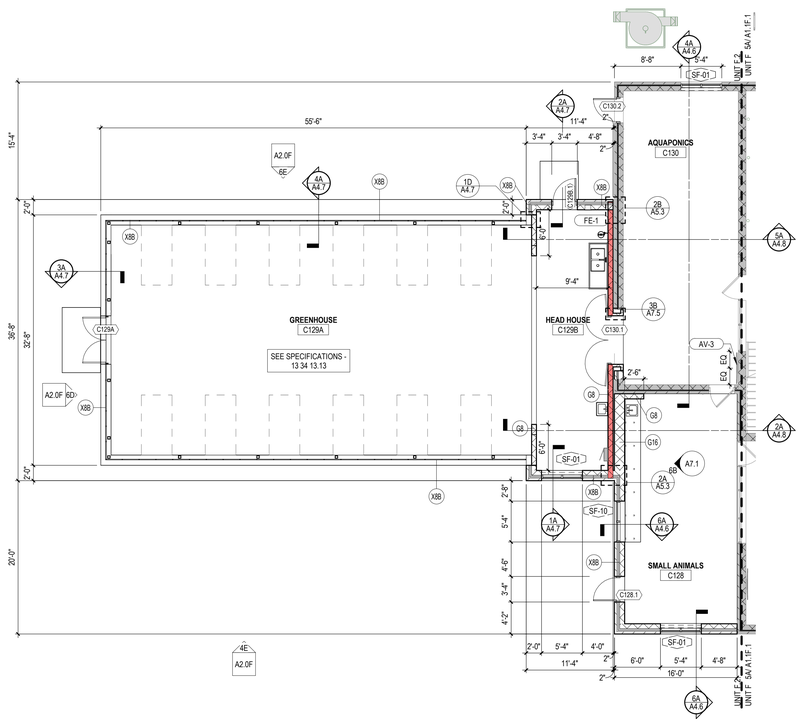
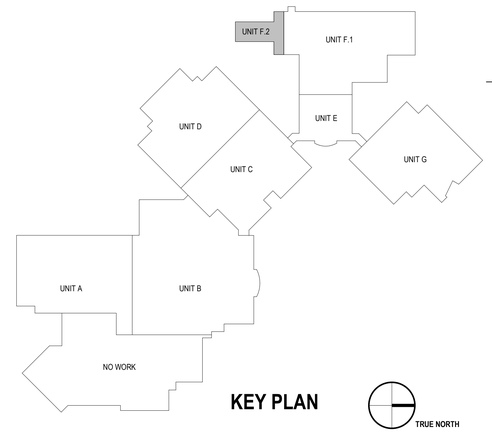


3A A1.1F.2 FIRST FLOOR - UNIT F.2
Scale: 1/8" = 1'-0"



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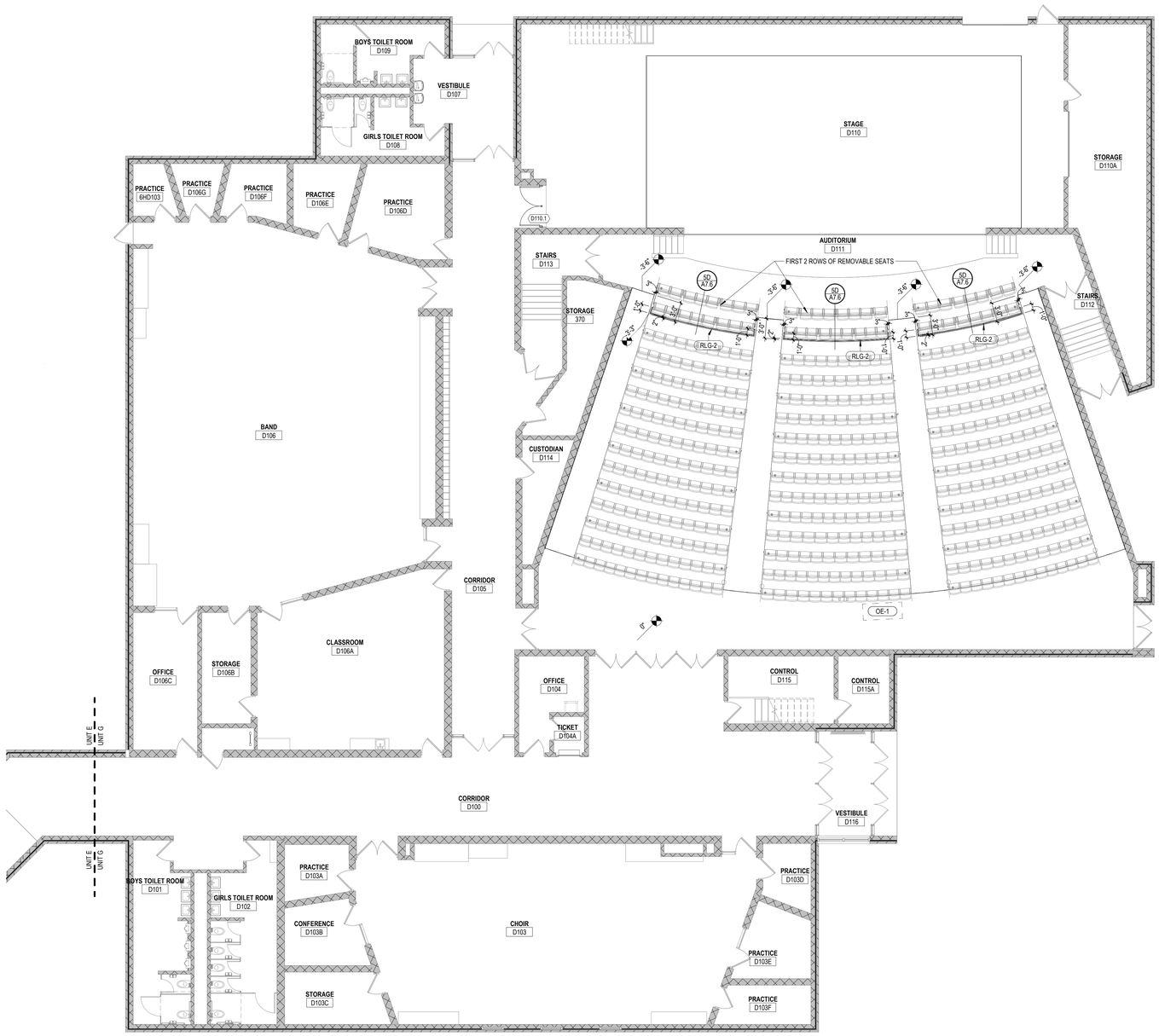

4A FIRST FLOOR - UNIT G
A1.1G Scale: 1/8" = 1'-0"

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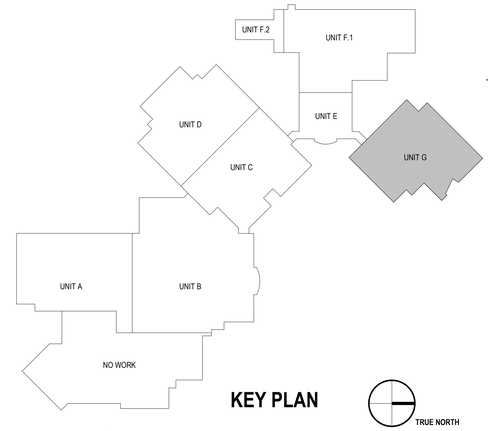
2. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
3. REFER TO SHEET AG1.1 FOR WALL TYPES. REFER TO SHEET G0.1 FOR RATED WALL LOCATIONS.
4. REFER TO SHEET AG1.0 FOR TYPICAL MOUNTING HEIGHTS. REFER TO INTERIOR ELEVATION SHEETS FOR ROOM SPECIFIC FIXTURE MOUNTING HEIGHTS.
5. REFER TO SHEET A9.0 FOR FLOOR TRANSITION DETAILS.
6. REFER TO SHEET A9.0 FOR TYPICAL FLOOR/BASE CONDITIONS.
7. DIMENSIONS FOR INTERIOR STUD WALLS ARE TO FACE OF WALL. EXTERIOR STUD WALLS ARE DIMENSIONED TO INTERIOR FACE OF STUDS. CMU WALLS ARE DIMENSIONED TO FACE OF WALL.
8. IDENTIFY ALL RATED WALLS AND PARTITIONS WITH PAINTED LETTERING THAT READS "FIRE AND/OR SMOKE BARRIER - PROTECT ALL OPENINGS" ABOVE CEILINGS. LETTERING TO BE LOCATED WITHIN 15 FEET OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30'-0" O.C. HORIZONTALLY, BOTH SIDES OF WALL. LETTERING TO BE NOT LESS THAN 3" IN HEIGHT WITH A 3/8" MINIMUM STROKE IN A CONTRASTING COLOR. SEE SHEET G0.1 PLANS FOR LOCATION OF RATED WALLS.
9. REFER TO STRUCTURAL DRAWINGS FOR FIREPROOFING LOCATIONS. PROVIDE INTUMESCENT PAINT AT EXPOSED STEEL COLUMNS AND AT THE BOTTOM FLANGE OF STEEL LINTELS. PROVIDE SPRAYED FIRE-RESISTIVE MATERIAL AT STEEL BEAMS, ROOF DECK AND ROOF JOISTS UNLESS NOTED OTHERWISE.
10. REFER TO REFLECTED CEILING PLANS & CLERESTORY PLANS FOR LOCATION OF ALL WINDOW TREATMENTS.
11. REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

KEYNOTE LEGEND

OE-1	SOUND PORCH FURNITURE - FURNISHED AND INSTALLED BY OWNER
RLG-2	PIPE AND TUBE METAL HANDRAIL - AUDITORIUM



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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Sheet Title:
UNIT G - FIRST FLOOR PLAN

Sheet Number:
A1.1G

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GENERAL NOTES

1. DO NOT SCALE FROM DRAWINGS.
2. EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
3. REFER TO SHEET AG1.1 FOR WALL TYPES. REFER TO SHEET G0.1 FOR RATED WALL LOCATIONS.
4. REFER TO SHEET AG1.0 FOR TYPICAL MOUNTING HEIGHTS. REFER TO INTERIOR ELEVATION SHEETS FOR ROOM SPECIFIC FIXTURE MOUNTING HEIGHTS.
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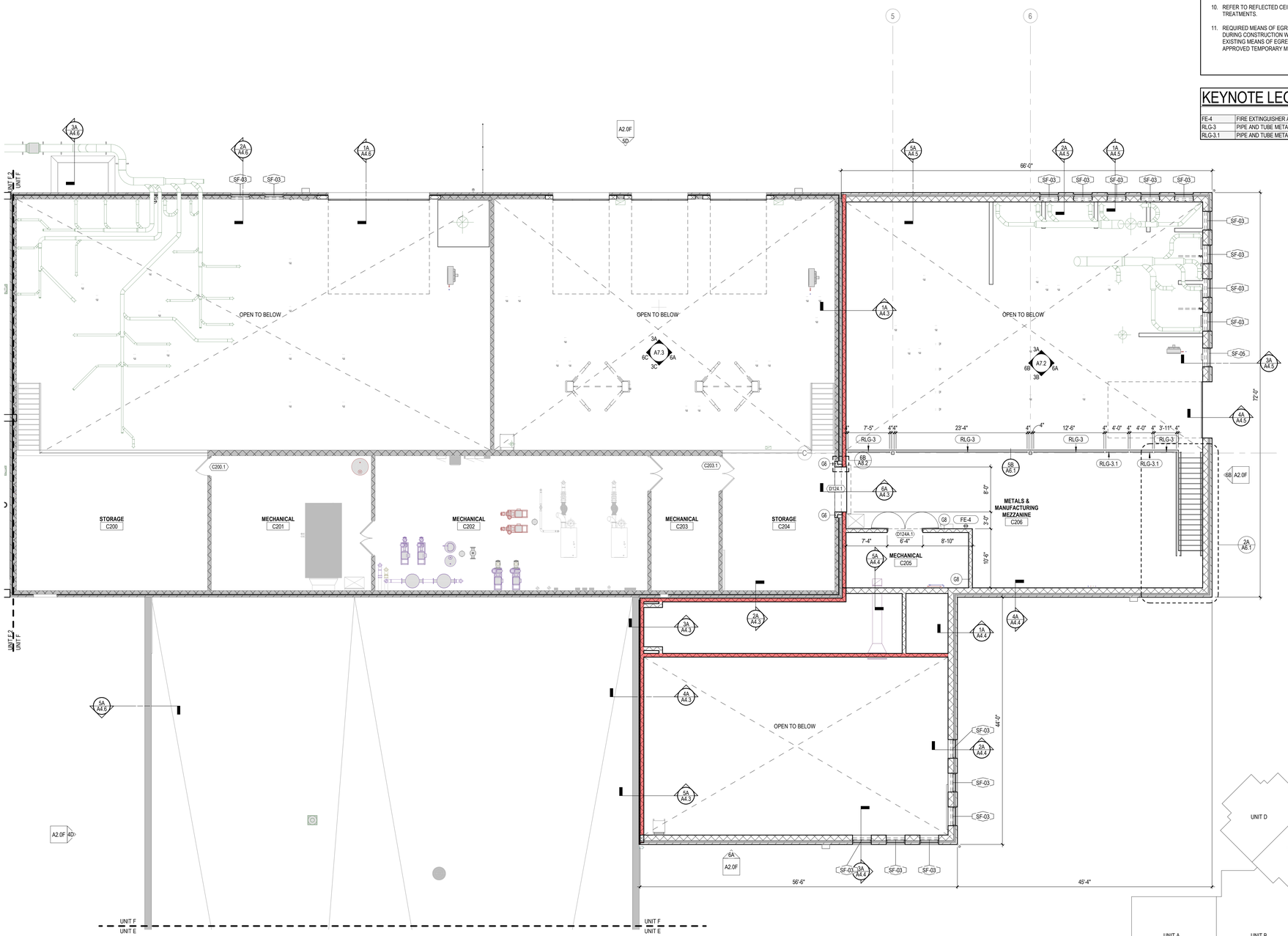
KEYNOTE LEGEND

FE-4	FIRE EXTINGUISHER AND BRACKET
RLG-3	PIPE AND TUBE METAL HANDRAIL - MEZZANINE
RLG-3.1	PIPE AND TUBE METAL HANDRAIL - MEZZANINE - REMOVABLE



6A A1.2F.1 MEZZANINE FLOOR PLAN - UNIT F.1

Scale: 1/8" = 1'-0"

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TRUE NORTH

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
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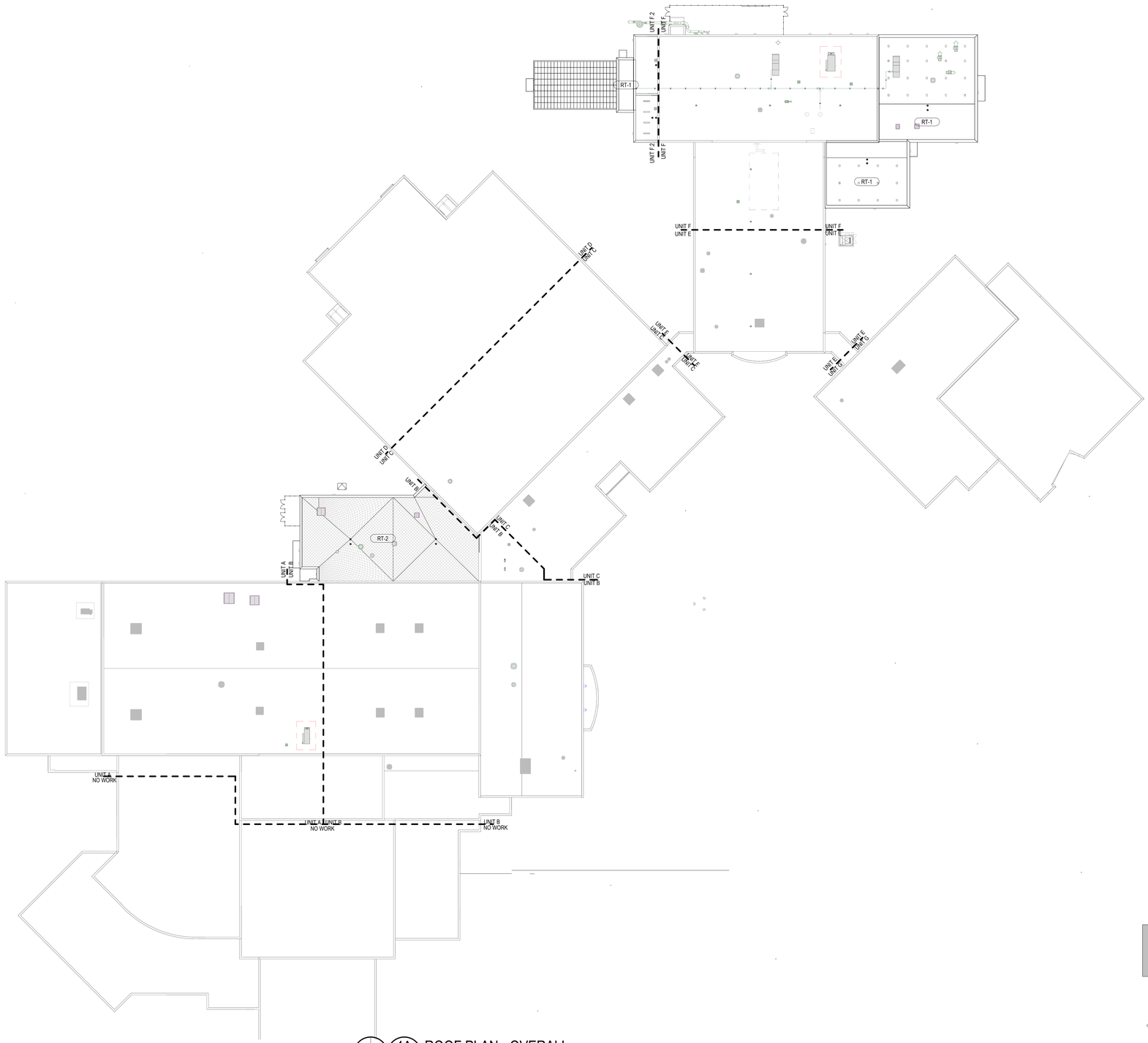


4A ROOF PLAN - OVERALL
A1.3 Scale: 1" = 30'-0"

ROOF PLAN LEGEND & NOTES

ROOF TYPE 1 (RT-1): TECH ED ADDITION / GREENHOUSE ADDITION

- EPDM SHEET
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2): KITCHEN ADDITION

- EPDM SHEET
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

#" DENOTES APPROXIMATE THICKNESS OF TAPERED INSULATION

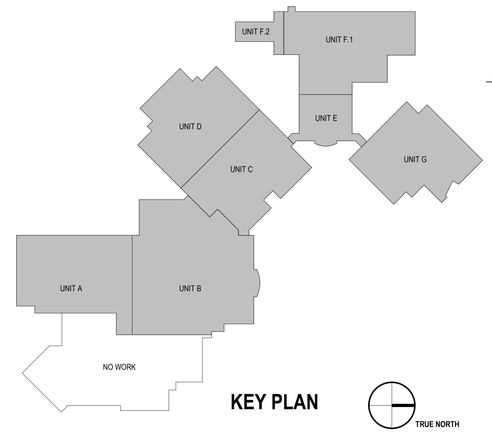
DENOTES ROOF CRICKETS;
MAINTAIN 1/2" PER FOOT SLOPE TO DRAINS

DENOTES TAPERED INSULATION;
MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

1. ALL ROOF SLOPES TO BE MINIMUM 1/4" PER FOOT UNLESS NOTED OTHERWISE.
2. ALL ROOF TOP CURBS TO BE SADDLED WITH MINIMUM 1/2" PER FOOT PITCH.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. VERIFY PENETRATIONS WITH ALL BUILDING TRADES.
4. SEE HVAC DRAWINGS FOR SIZES, QUANTITIES, LOCATIONS AND TYPES OF HVAC PENETRATIONS AND ROOF TOP MOUNTED EQUIPMENT.
5. SEE DETAIL1C/ A5.2 FOR VENT PIPE FLASHING DETAIL. VERIFY ALL LOCATIONS AND QUANTITIES W/ PLUMBING CONTRACTOR.
6. SEE DETAIL 1D/ A5.2FOR CURB FLASHING DETAIL.
7. SEE DETAIL 2C/ A5.2 FOR TYPICAL ROOF DRAIN DETAIL.
8. SEE DETAIL 2D/ A5.2 FOR TYPICAL ROOF SADDLES.
9. SEE DETAIL -/ --- FOR ROOF LADDER.

KEYNOTE LEGEND

RT-1	ROOF TYPE 1
RT-2	ROOF TYPE 2



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
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Sheboygan • Davenport
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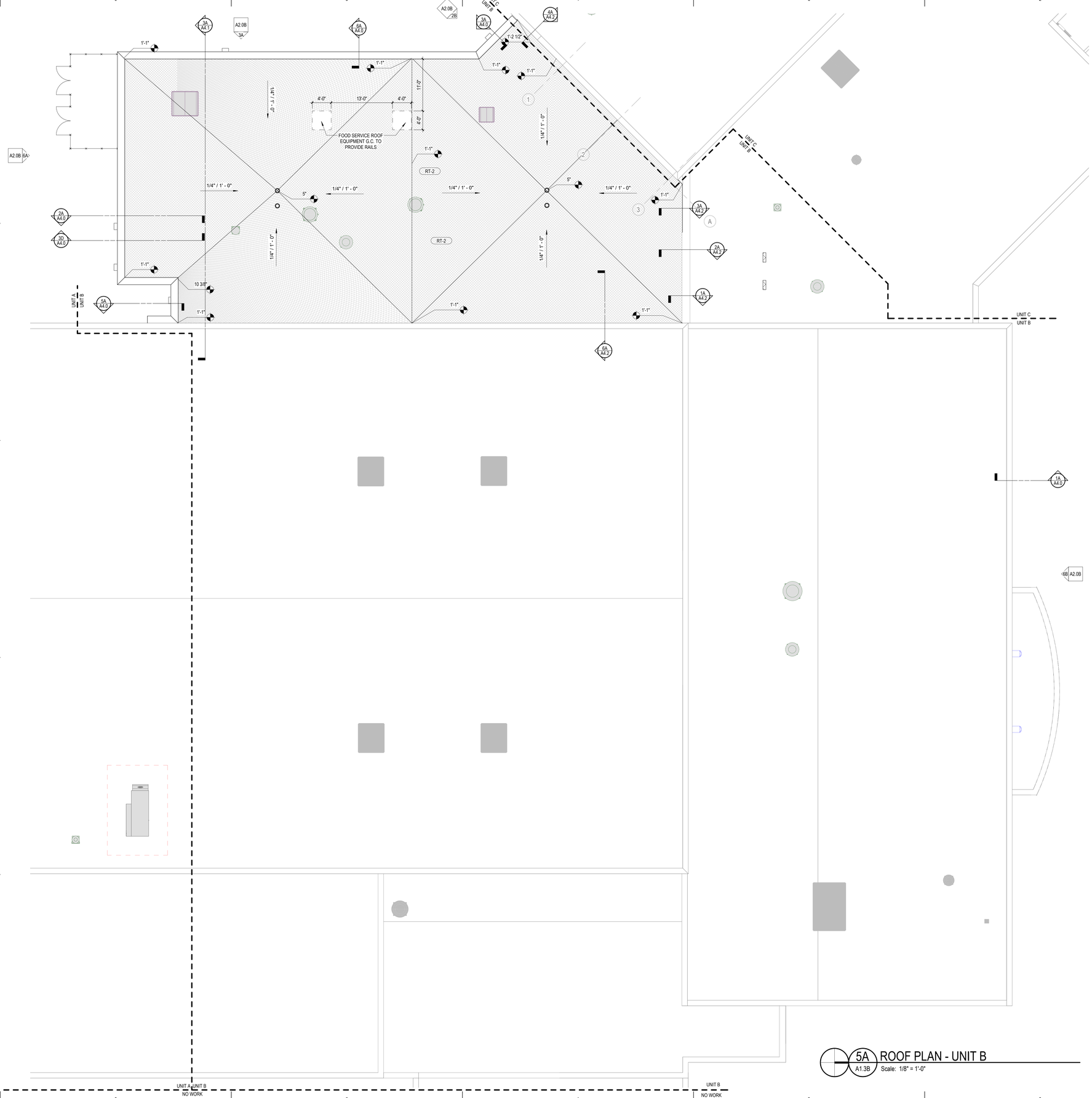

ROOF PLAN LEGEND & NOTES

ROOF TYPE 1 (RT-1): TECH ED ADDITION / GREENHOUSE ADDITION

- EPDM SHEET
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- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2): KITCHEN ADDITION

- EPDM SHEET
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

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DENOTES ROOF CRICKETS;
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DENOTES TAPERED INSULATION;
MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

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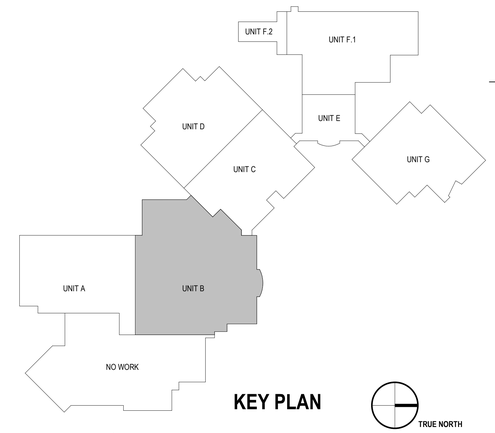
5. SEE DETAIL 1C/ A5.2 FOR VENT PIPE FLASHING DETAIL. VERIFY ALL LOCATIONS AND QUANTITIES W/ PLUMBING CONTRACTOR.
6. SEE DETAIL 1D/ A5.2 FOR CURB FLASHING DETAIL.
7. SEE DETAIL 2C/ A5.2 FOR TYPICAL ROOF DRAIN DETAIL.
8. SEE DETAIL 2D/ A5.2 FOR TYPICAL ROOF SADDLES.
9. SEE DETAIL -/ --- FOR ROOF LADDER.

KEYNOTE LEGEND

RT-2	ROOF TYPE 2

5A / A1.3B ROOF PLAN - UNIT B
Scale: 1/8" = 1'-0"



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
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UNIT B - ROOF PLAN

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KEYNOTE LEGEND

RT-1	ROOF TYPE 1

ROOF PLAN LEGEND & NOTES

ROOF TYPE 1 (RT-1): TECH ED ADDITION / GREENHOUSE ADDITION

- EPDM SHEET
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2): KITCHEN ADDITION

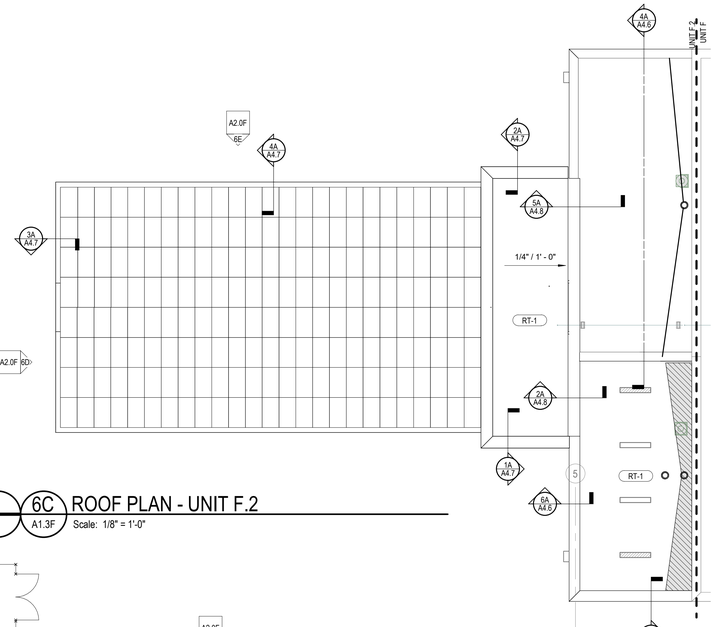
- EPDM SHEET
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

#" DENOTES APPROXIMATE THICKNESS OF TAPERED INSULATION

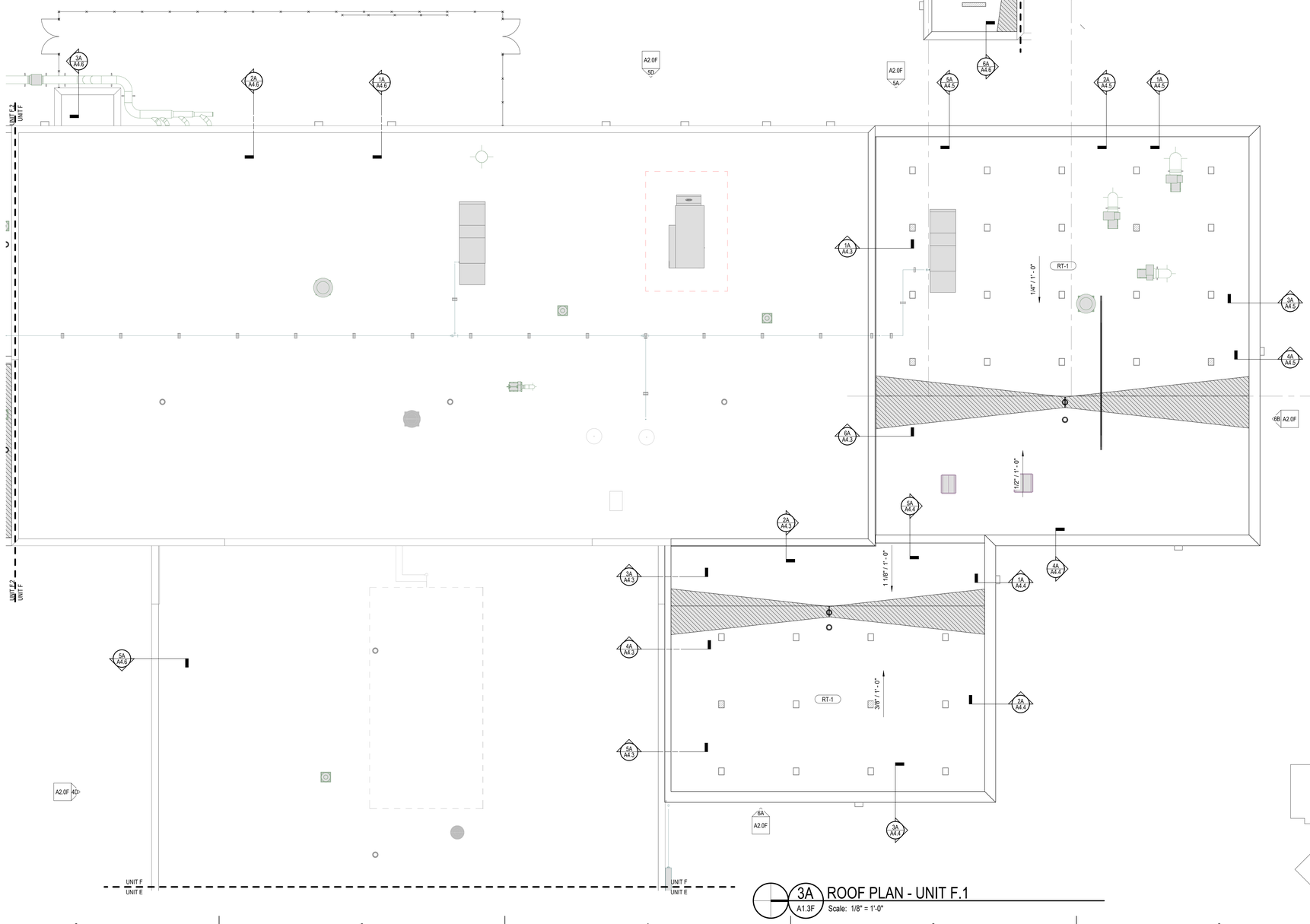
DENOTES ROOF CRICKETS;
MAINTAIN 1/2" PER FOOT SLOPE TO DRAINS

DENOTES TAPERED INSULATION;
MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

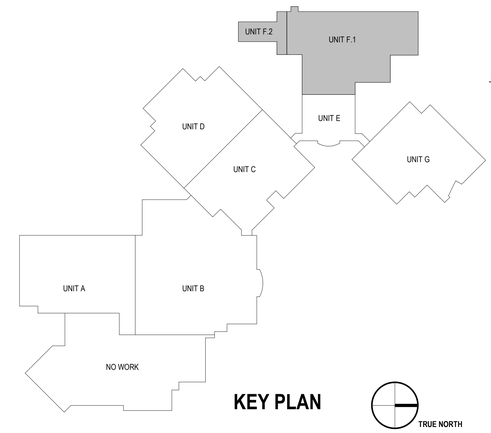
1. ALL ROOF SLOPES TO BE MINIMUM 1/4" PER FOOT UNLESS NOTED OTHERWISE.
2. ALL ROOF TOP CURBS TO BE SADDLED WITH MINIMUM 1/2" PER FOOT PITCH.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. VERIFY PENETRATIONS WITH ALL BUILDING TRADES.
4. SEE HVAC DRAWINGS FOR SIZES, QUANTITIES, LOCATIONS AND TYPES OF HVAC PENETRATIONS AND ROOF TOP MOUNTED EQUIPMENT.
5. SEE DETAIL1C/ A5.2 FOR VENT PIPE FLASHING DETAIL. VERIFY ALL LOCATIONS AND QUANTITIES W/ PLUMBING CONTRACTOR.
6. SEE DETAIL 1D/ A5.2FOR CURB FLASHING DETAIL.
7. SEE DETAIL 2C/ A5.2 FOR TYPICAL ROOF DRAIN DETAIL.
8. SEE DETAIL 2D/ A5.2 FOR TYPICAL ROOF SADDLES.
9. SEE DETAIL -/--- FOR ROOF LADDER.



6C A1.3F ROOF PLAN - UNIT F.2
Scale: 1/8" = 1'-0"



3A A1.3F ROOF PLAN - UNIT F.1
Scale: 1/8" = 1'-0"



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TRUE NORTH

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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GENERAL CEILING PLAN NOTES

EXISTING CEILING TILE & GRID

EXISTING GYP. BOARD CEILING

NEW CEILING TILE & GRID

NEW GYP. BOARD CEILING

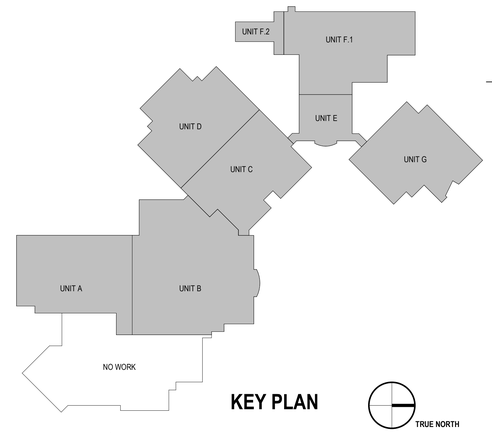
1. REFER TO INTERIOR FINISH LEGEND FOR CEILING MATERIAL KEYS.
2. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PT-5 UNLESS NOTED OTHERWISE. WHERE A PAINT COLOR IS INDICATED, PAINT THE BOTTOM AND FACE OF THE SOFFIT THE COLOR INDICATED.
3. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL THE EXACT LOCATIONS OF CEILING FIXTURES, DIFFUSERS, SPRINKLER HEADS, ETC. CONSULT WITH ARCHITECT REGARDING ANY DISCREPANCIES.
4. REMOVE EXISTING CEILING PRIOR TO INSTALLING ANY NEW CEILING IF NOT NOTED ON THE DEMOLITION PLANS.
5. RECESSED LIGHT FIXTURES, SPEAKERS, EXIT LIGHTS, SMOKE DETECTORS, ETC. TO BE LOCATED IN THE CENTER OF CEILING TILES.
6. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING MOUNTED DEVICE SYMBOL LEGEND.
7. ALL CEILING TILE TO BE CENTERED IN BOTH DIRECTIONS IN EACH ROOM OR SPACE, UNLESS NOTED OTHERWISE. TYPICAL CEILING TILE SHOULD NOT BE CUT LESS THAN 6" WIDE IN ANY AREA. WHEN GRID LAYOUT RESULTS IN A CEILING TILE OF LESS THAN 4" FOR THE LENGTH OR WIDTH OF A ROOM, OMIT RUNNER NEAREST WALL AND CUT FULL TILE TO WIDTH AS NEEDED.
8. APPLY ADDITIONAL SUPPORT TO BOTTOM OF STRUCTURE AT CEILING CLOUDS WHERE OVERHEAD DOOR TRACKS CONFLICT WITH TYPICAL CABLE.
9. ALL INTERIOR STEEL LINTELS IN PROJECT TO BE PAINTED TO MATCH ADJACENT WALL, SEE FINISH PLANS FOR ACCENT COLOR LOCATIONS

KEYNOTE LEGEND



5A / A1.5 FIRST FLOOR RCP - OVERALL

Scale: 1" = 30'-0"



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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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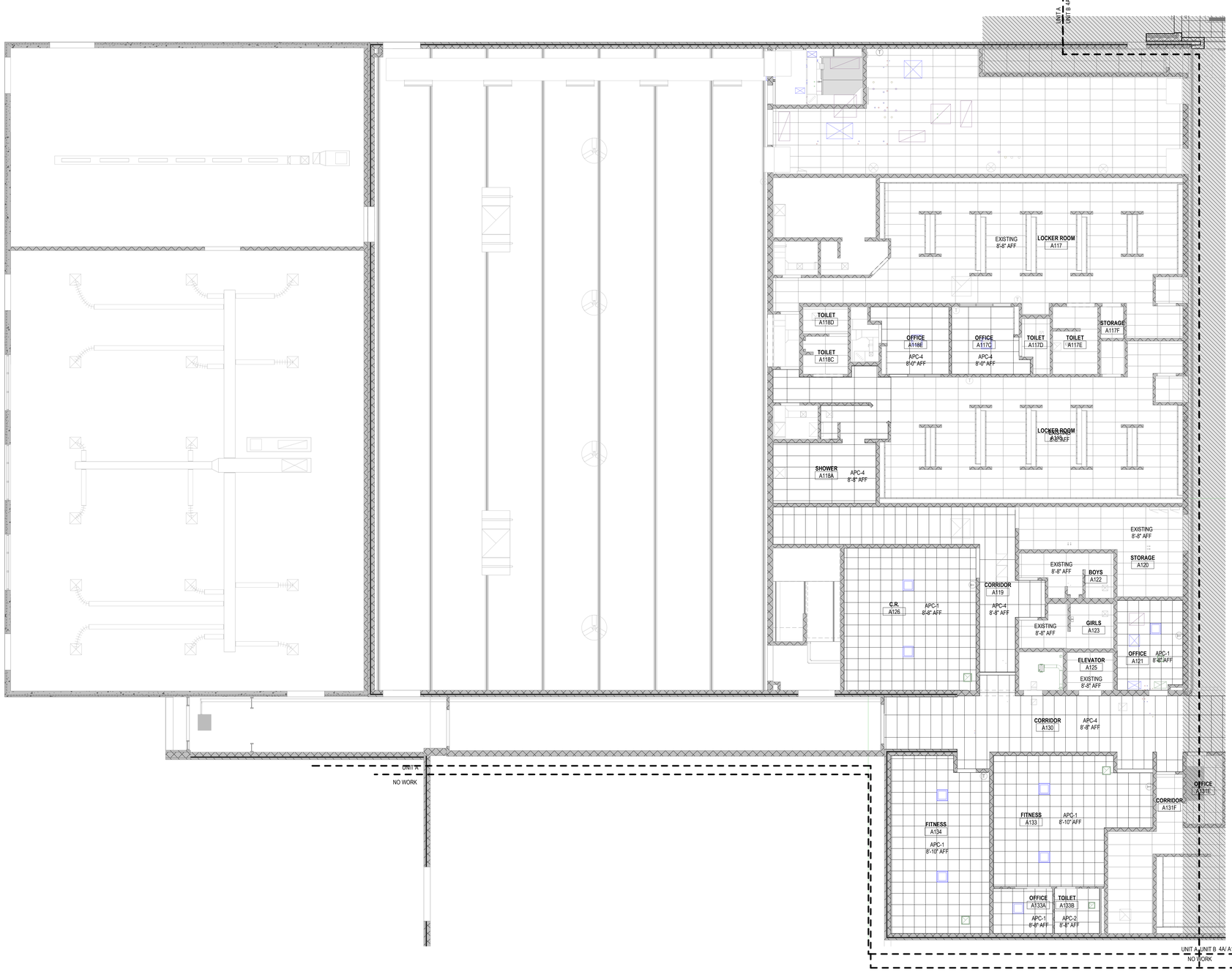

6A A1.5A UNIT A - FIRST FLOOR RCP
Scale: 1/8" = 1'-0"

GENERAL CEILING PLAN NOTES

EXISTING CEILING TILE & GRID
EXISTING GYP. BOARD CEILING
NEW CEILING TILE & GRID
NEW GYP. BOARD CEILING

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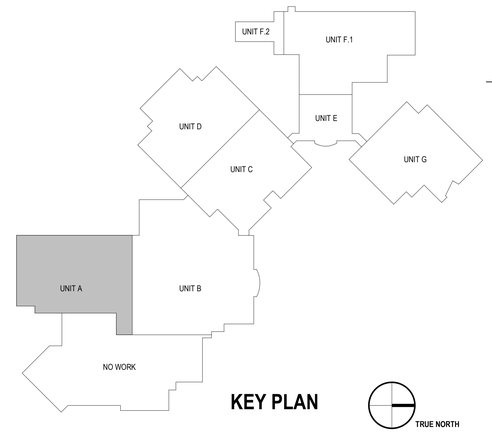

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3705

Sheet Title:
UNIT A - FIRST FLOOR RCP

Sheet Number:
A1.5A

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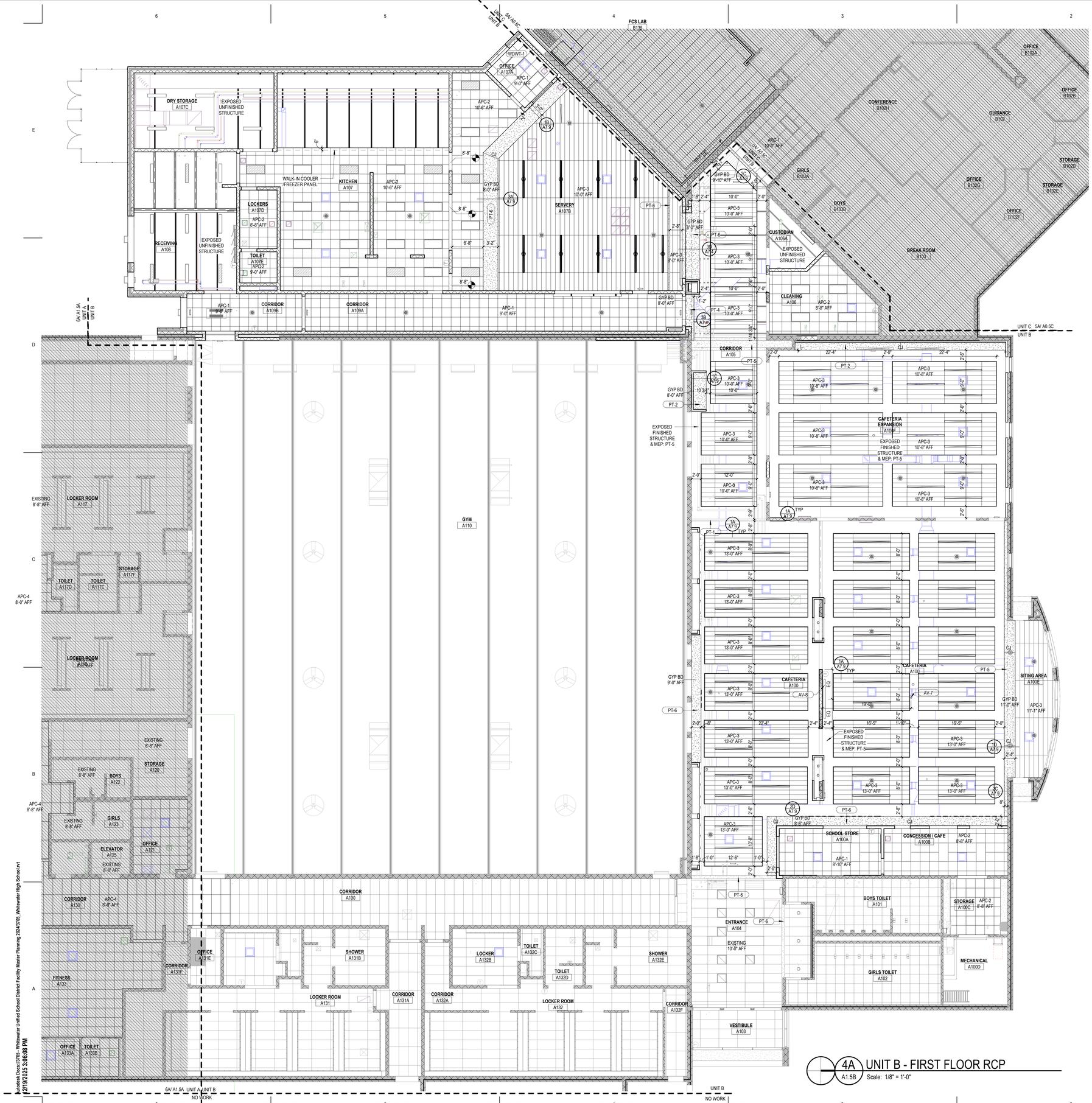


4A UNIT B - FIRST FLOOR RCP
A1.5B Scale: 1/8" = 1'-0"

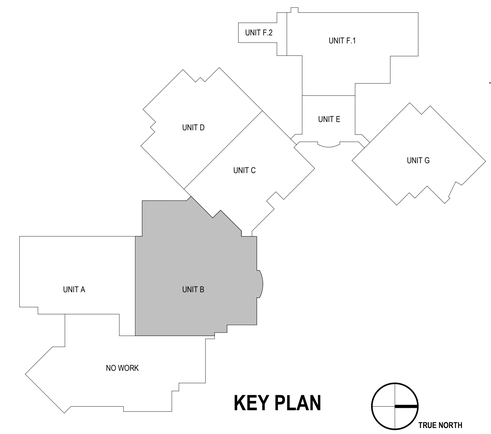
GENERAL CEILING PLAN NOTES

EXISTING CEILING TILE & GRID
EXISTING GYP. BOARD CEILING
NEW CEILING TILE & GRID
NEW GYP. BOARD CEILING

1. REFER TO INTERIOR FINISH LEGEND FOR CEILING MATERIAL KEYS.
2. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PT-5 UNLESS NOTED OTHERWISE. WHERE A PAINT COLOR IS INDICATED, PAINT THE BOTTOM AND FACE OF THE SOFFIT THE COLOR INDICATED.
3. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL THE EXACT LOCATIONS OF CEILING FIXTURES, DIFFUSERS, SPRINKLER HEADS, ETC. CONSULT WITH ARCHITECT REGARDING ANY DISCREPANCIES.
4. REMOVE EXISTING CEILING PRIOR TO INSTALLING ANY NEW CEILING IF NOT NOTED ON THE DEMOLITION PLANS.
5. RECESSED LIGHT FIXTURES, SPEAKERS, EXIT LIGHTS, SMOKE DETECTORS, ETC. TO BE LOCATED IN THE CENTER OF CEILING TILES.
6. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING MOUNTED DEVICE SYMBOL LEGEND.
7. ALL CEILING TILE TO BE CENTERED IN BOTH DIRECTIONS IN EACH ROOM OR SPACE, UNLESS NOTED OTHERWISE. TYPICAL CEILING TILE SHOULD NOT BE CUT LESS THAN 6" WIDE IN ANY AREA. WHEN GRID LAYOUT RESULTS IN A CEILING TILE OF LESS THAN 4" FOR THE LENGTH OR WIDTH OF A ROOM, OMIT RUNNER NEAREST WALL AND CUT FULL TILE TO WIDTH AS NEEDED.
8. APPLY ADDITIONAL SUPPORT TO BOTTOM OF STRUCTURE AT CEILING CLOUDS WHERE OVERHEAD DOOR TRACKS CONFLICT WITH TYPICAL CABLE.
9. ALL INTERIOR STEEL LINTELS IN PROJECT TO BE PAINTED TO MATCH ADJACENT WALL, SEE FINISH PLANS FOR ACCENT COLOR LOCATIONS

KEYNOTE LEGEND

AV-7	CEILING MOUNTED PROJECTOR - FURNISHED AND INSTALLED BY OWNER
AV-8	PROJECTION SCREEN - FURNISHED AND INSTALLED BY OWNER
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PT-5	PAINT - SEE INTERIOR FINISH LEGEND
PT-6	PAINT - SEE INTERIOR FINISH LEGEND
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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12/19/2025

Project Number:
3705

Sheet Title:
UNIT B - FIRST FLOOR RCP

Sheet Number:
A1.5B

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GENERAL CEILING PLAN NOTES

EXISTING CEILING TILE & GRID

EXISTING GYP. BOARD CEILING

NEW CEILING TILE & GRID

NEW GYP. BOARD CEILING

1. REFER TO INTERIOR FINISH LEGEND FOR CEILING MATERIAL KEYS.
2. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PT-5 UNLESS NOTED OTHERWISE. WHERE A PAINT COLOR IS INDICATED, PAINT THE BOTTOM AND FACE OF THE SOFFIT THE COLOR INDICATED.
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9. ALL INTERIOR STEEL LINTELS IN PROJECT TO BE PAINTED TO MATCH ADJACENT WALL, SEE FINISH PLANS FOR ACCENT COLOR LOCATIONS

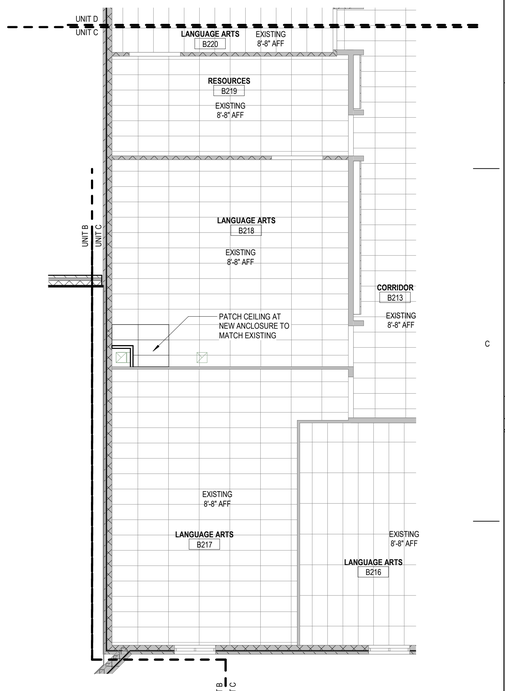
KEYNOTE LEGEND

AV-6	DISPLAY CAMERA - FURNISHED AND INSTALLED BY OWNER
PT-2	PAINT - SEE INTERIOR FINISH LEGEND



5A A1.5C UNIT C - FIRST FLOOR RCP

Scale: 1/8" = 1'-0"



1B A1.5C UNIT C - PARTIAL - FIRST FLOOR RCP

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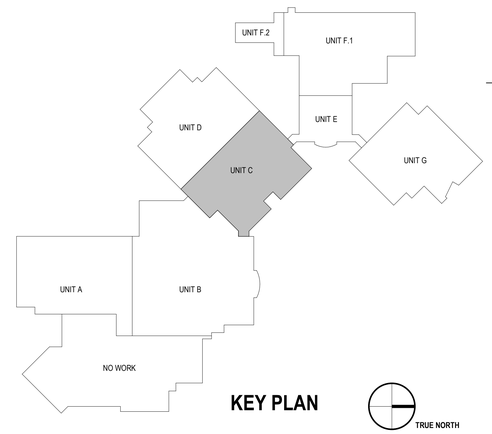

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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

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UNIT C - FIRST FLOOR RCP

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3C A1.5F UNIT F.2 - FIRST FLOOR RCP
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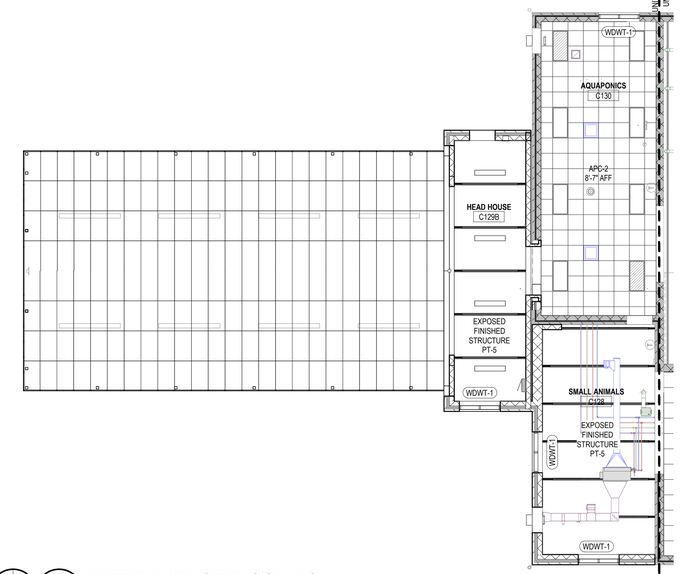

4A A1.5F UNIT F.1 - FIRST FLOOR RCP
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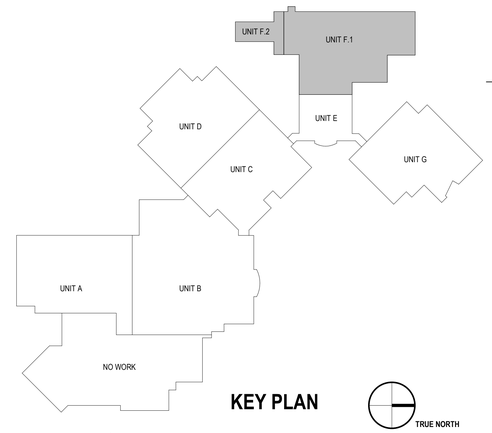

KEY PLAN

TRUE NORTH

GENERAL CEILING PLAN NOTES

EXISTING CEILING TILE & GRID
EXISTING GYP. BOARD CEILING
NEW CEILING TILE & GRID
NEW GYP. BOARD CEILING

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KEYNOTE LEGEND

WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-2	WINDOW TREATMENT (MOTORIZED ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-3	WINDOW TREATMENT (MOTORIZED BLACKOUT ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-4	WINDOW TREATMENT (MANUAL BLACKOUT ROLLER SHADE) - SEE INTERIOR FINISH LEGEND

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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UNIT F - FIRST FLOOR RCP

Sheet Number:
A1.5F

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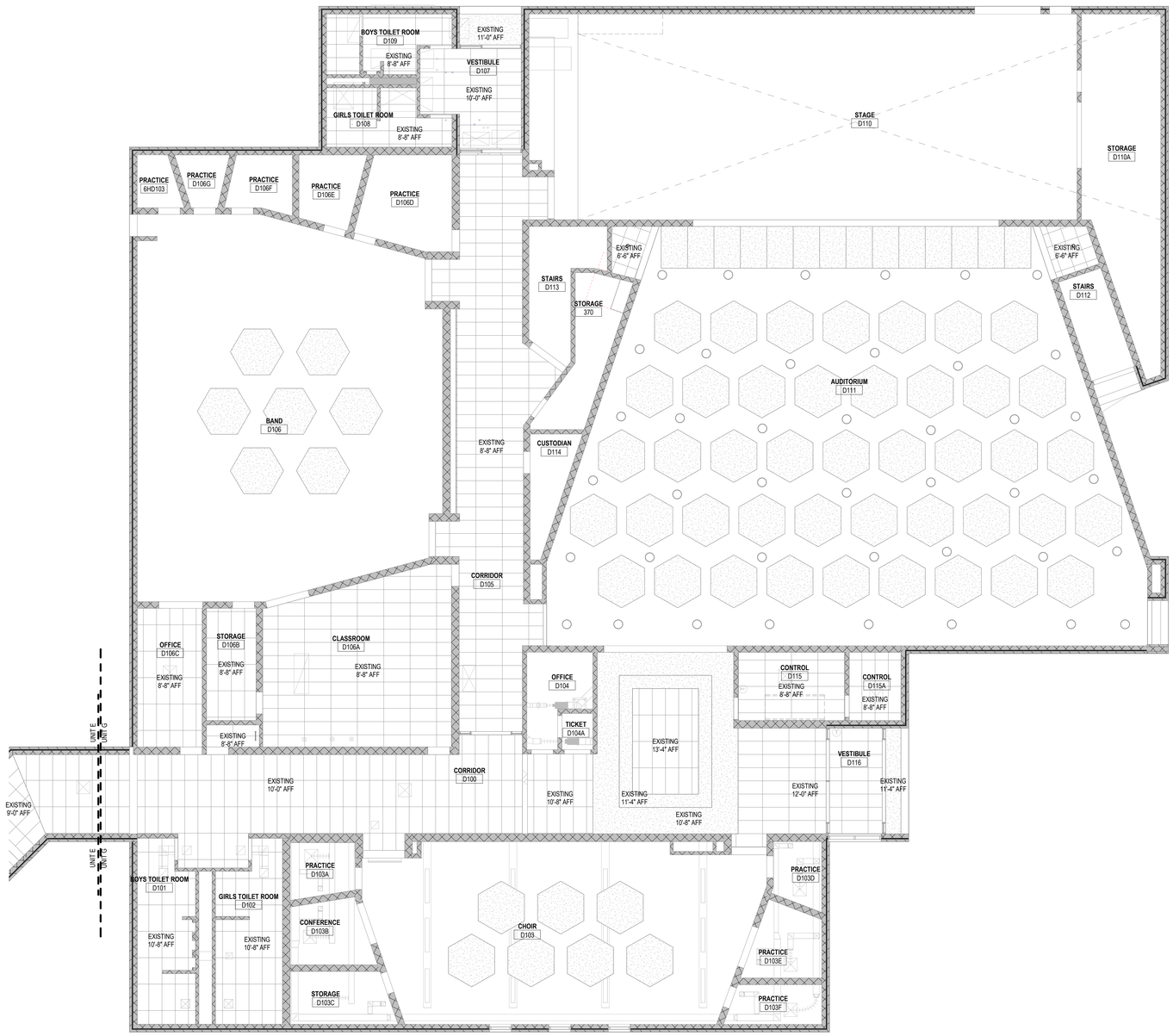

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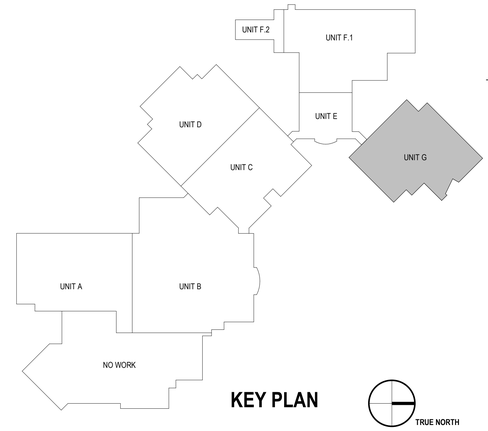

KEY PLAN

TRUE NORTH

4A / A1.5G UNIT G - FIRST FLOOR RCP

Scale: 1/8" = 1'-0"

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Milwaukee, Wisconsin 53204
T: 414.226.0200

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Sheet Title:
UNIT G - FIRST FLOOR RCP

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A1.5G

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GENERAL CEILING PLAN NOTES

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EXISTING GYP. BOARD CEILING
NEW CEILING TILE & GRID
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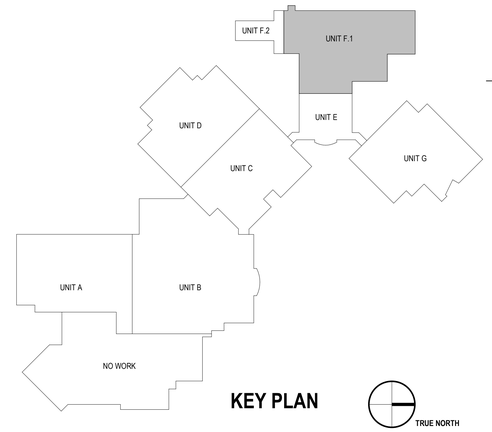
KEYNOTE LEGEND



3A A1.6F.1 UNIT F.1 - MEZZANINE FLOOR RCP
Scale: 1/8" = 1'-0"



KEY PLAN

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

Project Title:
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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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Sheet Title:
UNIT F - MEZZANINE FLOOR RCP

Sheet Number:
A1.6F.1

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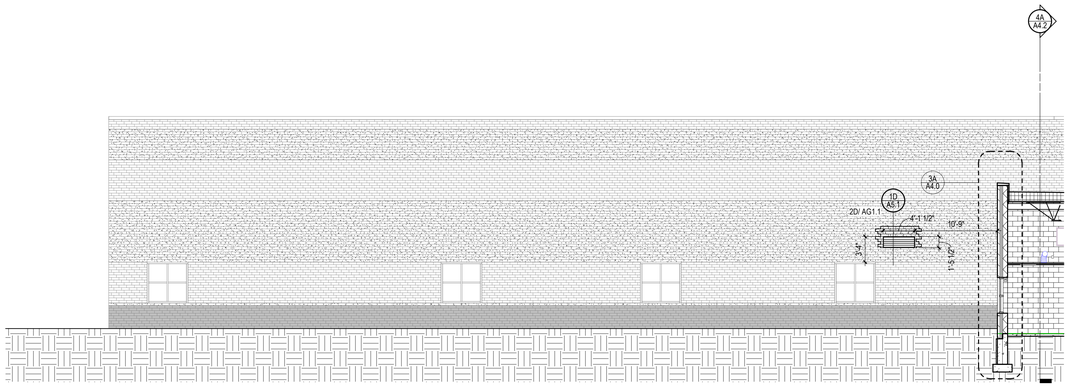
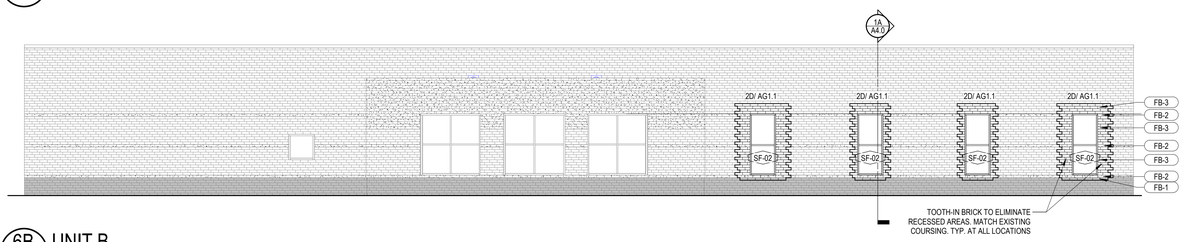
KEYNOTE LEGEND

FB-1	FACE BRICK - GRAY
FB-2	FACE BRICK - RED
FB-3	FACE BRICK - BIEGE
RFS-3	METAL COPING



6C UNIT C
A2.0B Scale: 1/8" = 1'-0"



6B UNIT B
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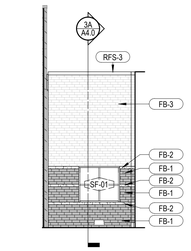
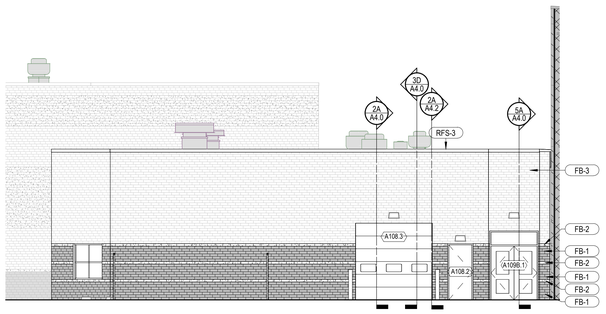
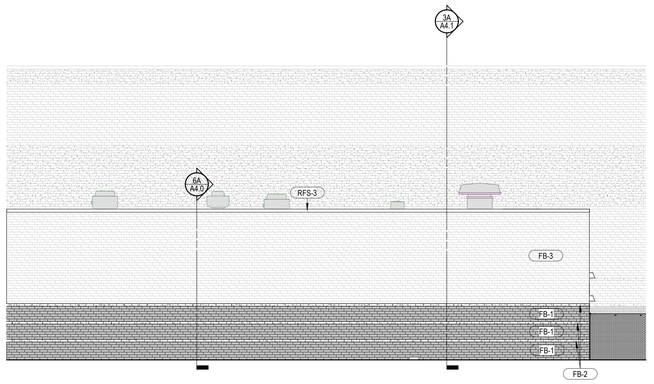


2B WEST ELEVATION - UNIT B
A2.0B Scale: 1/8" = 1'-0"



6A SOUTH ELEVATION - UNIT B
A2.0B Scale: 1/8" = 1'-0"



3A WEST ELEVATION - UNIT B
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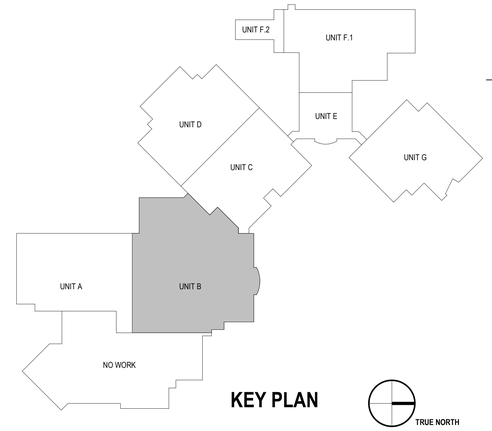

KEY PLAN

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Sheet Title:
OVERALL EXTERIOR ELEVATIONS

Sheet Number:
A2.0B

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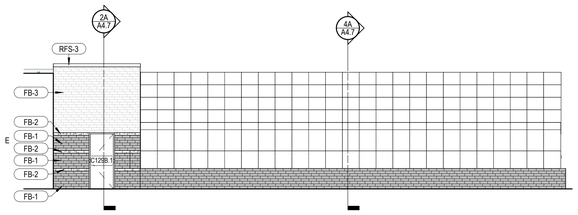
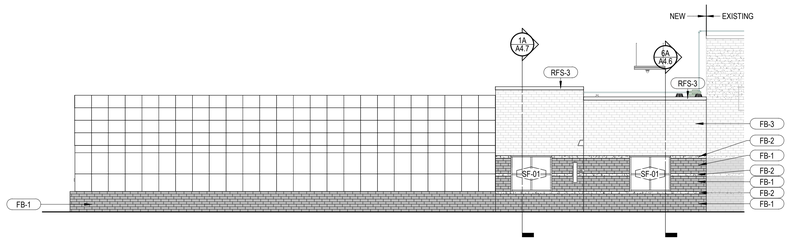
KEYNOTE LEGEND

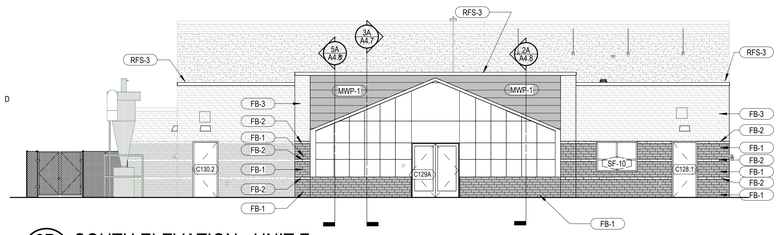
FB-1	FACE BRICK - GRAY
FB-2	FACE BRICK - RED
FB-3	FACE BRICK - BIEGE
MWP-1	FLUSH-PROFILE, CONCEALED-FASTENER METAL WALL PANELS.
RFS-3	METAL COPING



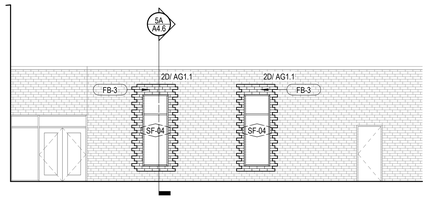
6E GREENHOUSE - WEST
A2.0F Scale: 1/8" = 1'-0"



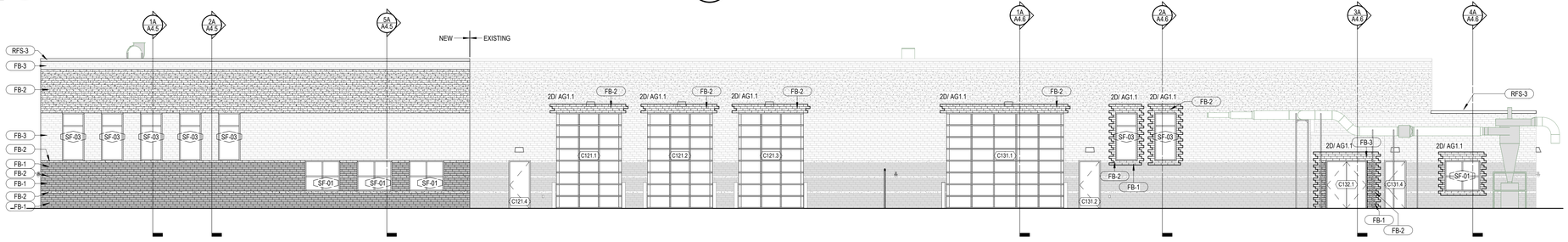
4E GREENHOUSE - EAST
A2.0F Scale: 1/8" = 1'-0"



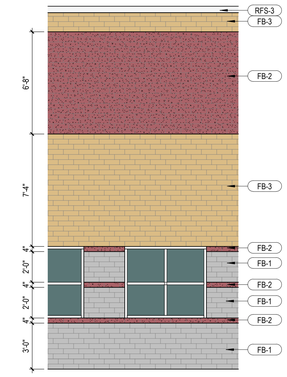
6D SOUTH ELEVATION - UNIT F
A2.0F Scale: 1/8" = 1'-0"



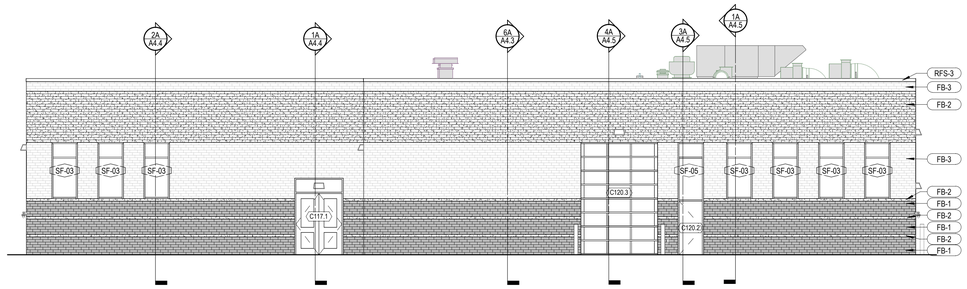
4D SOUTH ELEVATION - UNIT F
A2.0F Scale: 1/8" = 1'-0"



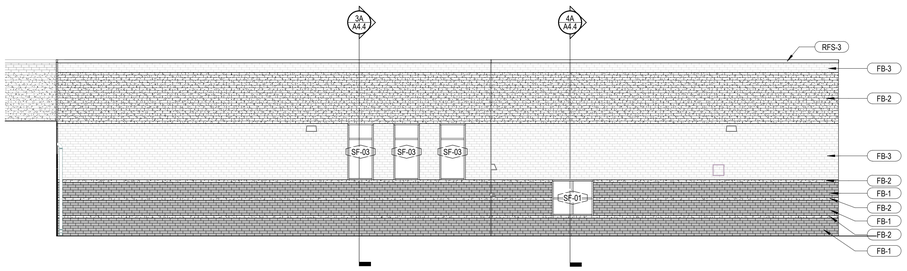
5D EAST ELEVATION - UNIT F
A2.0F Scale: 1/8" = 1'-0"



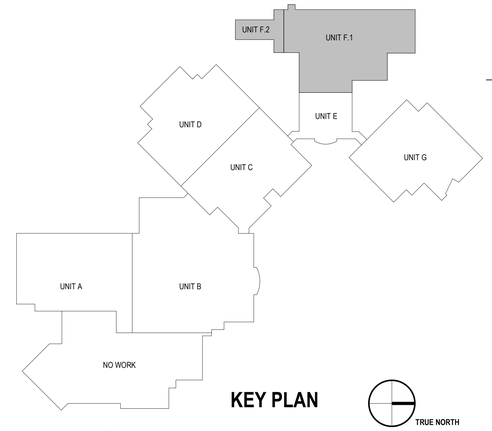
5A TYPICAL BRICK ELEVATION -ADDITION
A2.0F Scale: 1/4" = 1'-0"



6B NORTH ELEVATION - UNIT F
A2.0F Scale: 1/8" = 1'-0"



6A WEST ELEVATION - UNIT F
A2.0F Scale: 1/8" = 1'-0"



KEY PLAN

TRUE NORTH

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Milwaukee
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T: 414.226.0200

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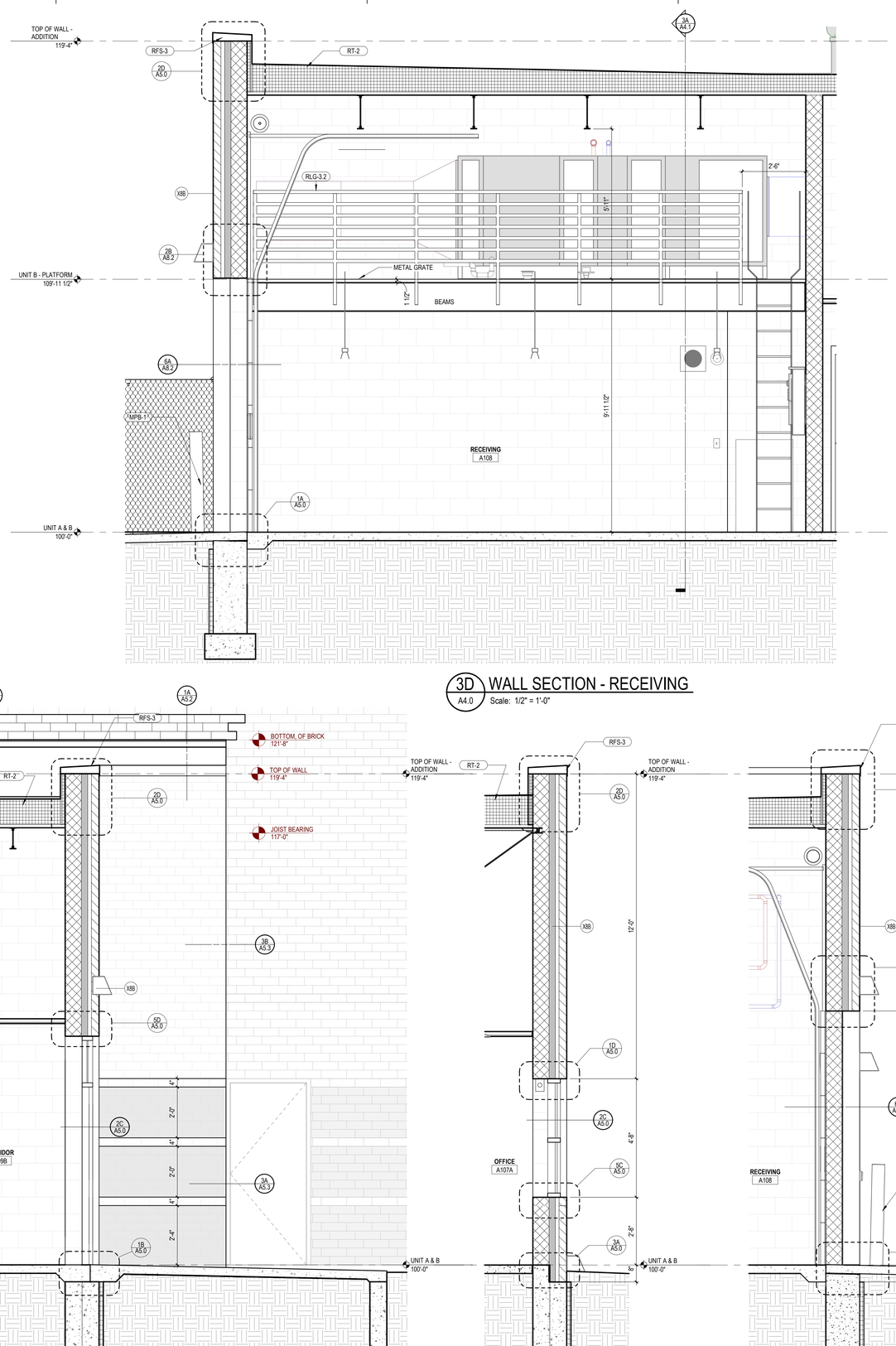
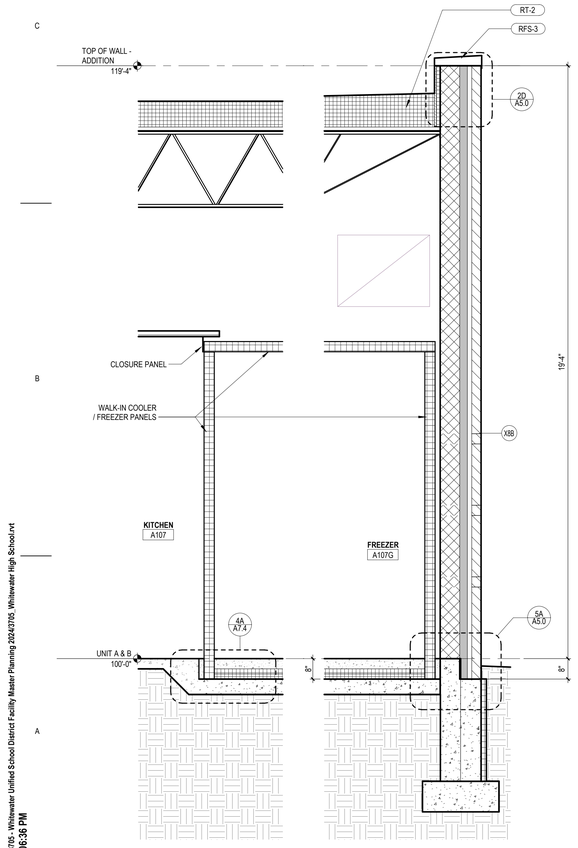
KEYNOTE LEGEND

MPB-1	METAL (PIPE) BOLLARD - PT-7
RFS-3	METAL COPING
RLG-3.2	PIPE AND TUBE GUARDRAIL
RT-2	ROOF TYPE 2



3D WALL SECTION - RECEIVING
A4.0 Scale: 1/2" = 1'-0"

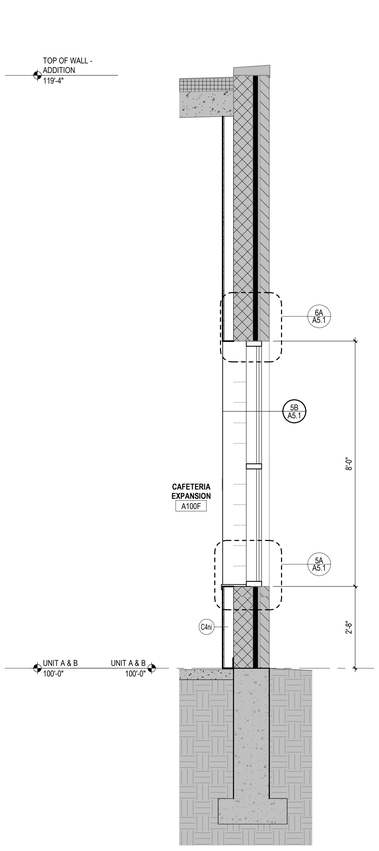


6A WALL SECTION - FREEZER
A4.0 Scale: 1/2" = 1'-0"

5A WALL SECTION - ENTRANCE
A4.0 Scale: 1/2" = 1'-0"

3A WALL SECTION - WINDOW
A4.0 Scale: 1/2" = 1'-0"

2A WALL SECTION - OVERHEAD DOOR
A4.0 Scale: 1/2" = 1'-0"



1A WALL SECTION - EXISTING
A4.0 Scale: 1/2" = 1'-0"

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KEYNOTE LEGEND

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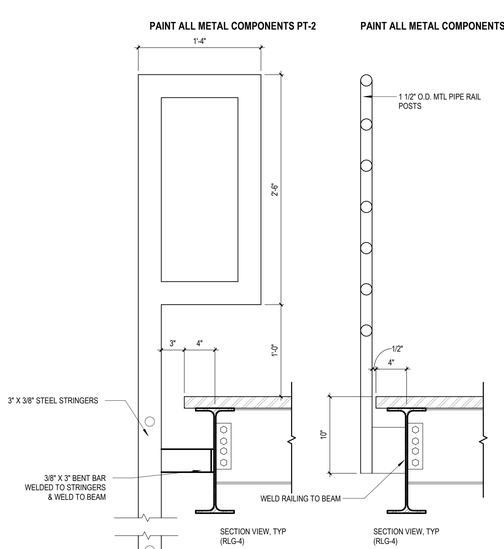
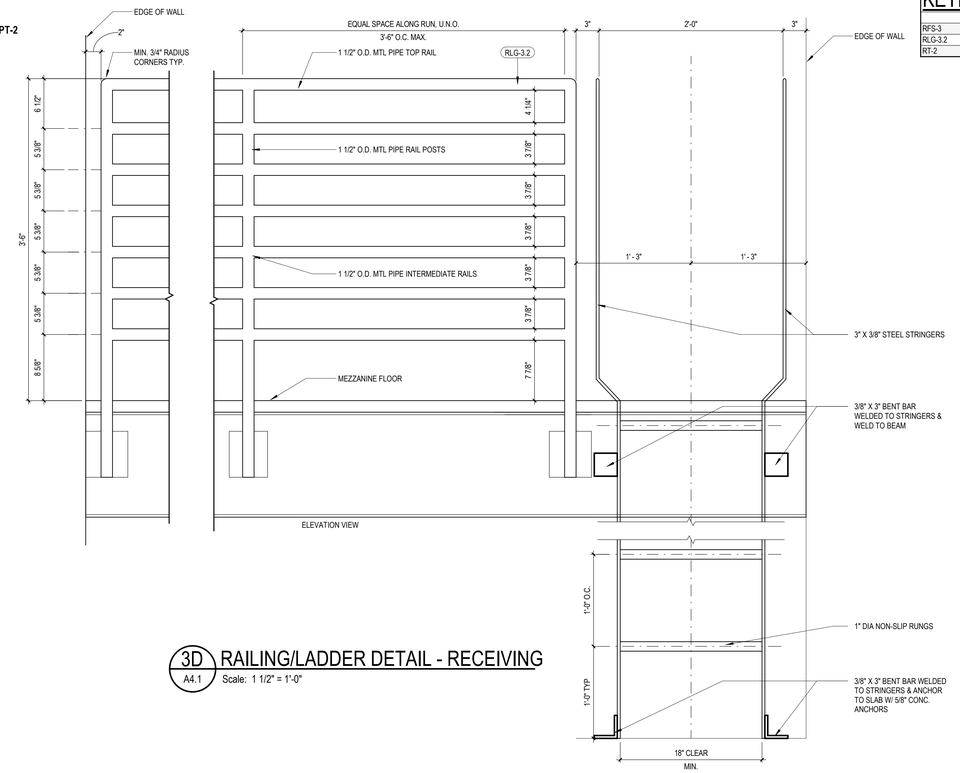
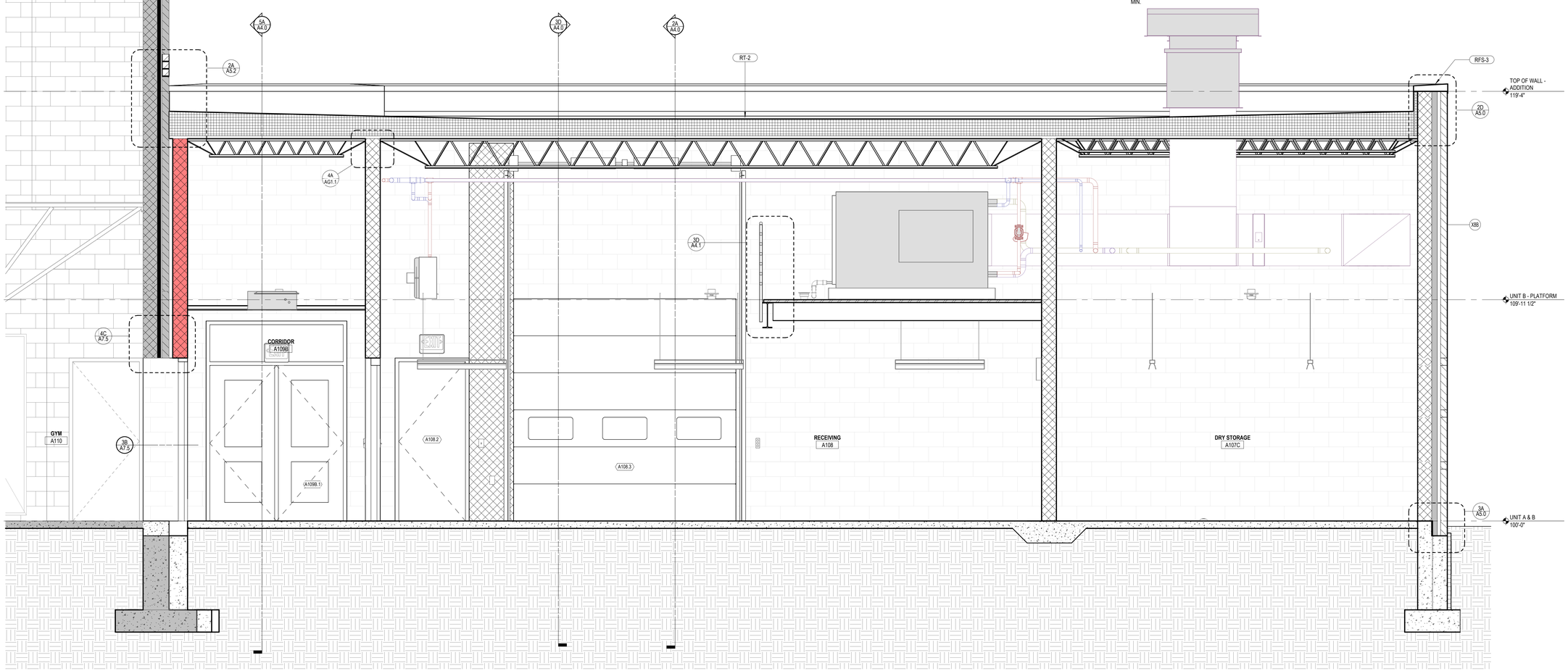
RLG-3.2	PIPE AND TUBE GUARDRAIL
RT-2	ROOF TYPE 2





3D A4.1 RAILING/LADDER DETAIL - RECEIVING
Scale: 1 1/2" = 1'-0"



3A A4.1 WALL SECTION - RECEIVING/STORAGE
Scale: 1/2" = 1'-0"

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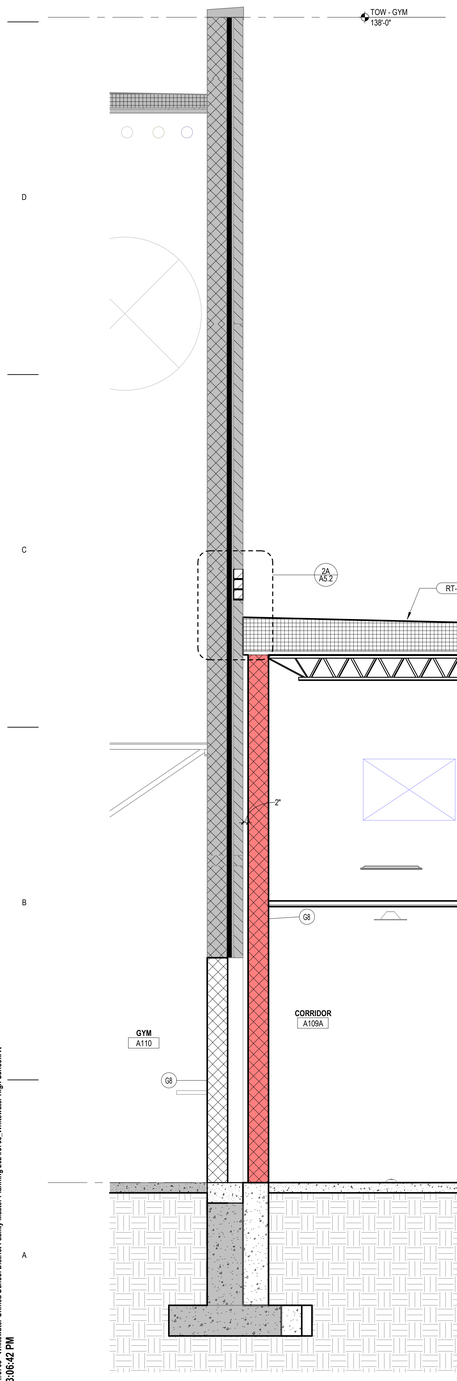
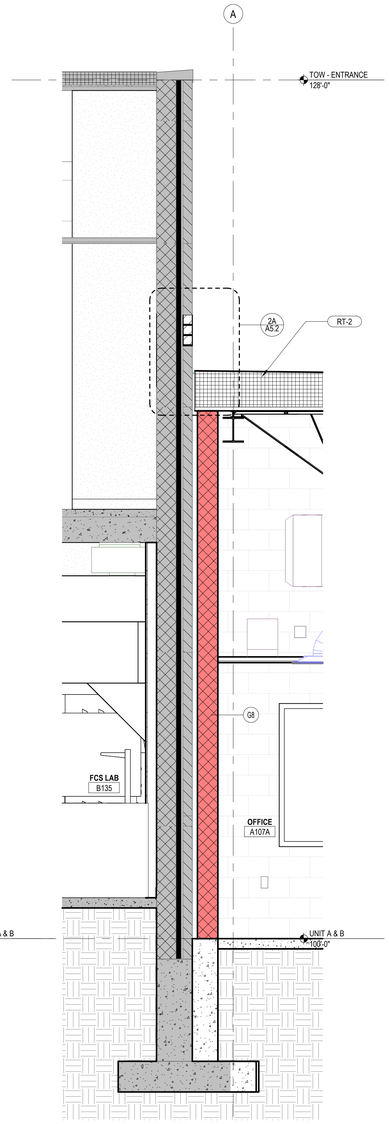
KEYNOTE LEGEND

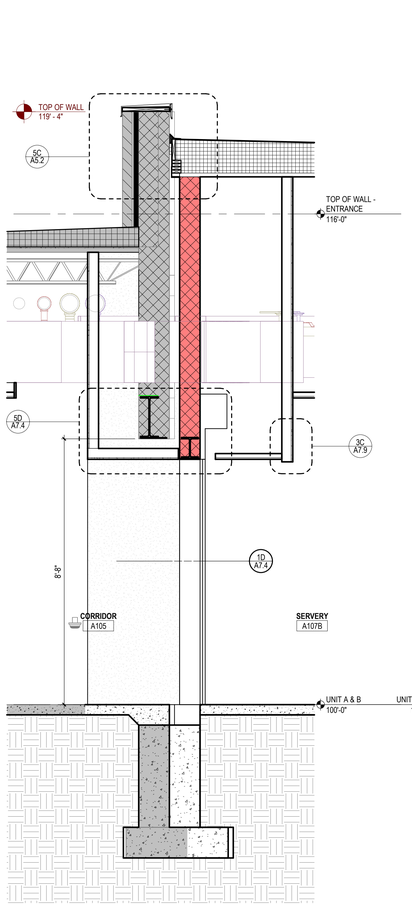
RT-2	ROOF TYPE 2



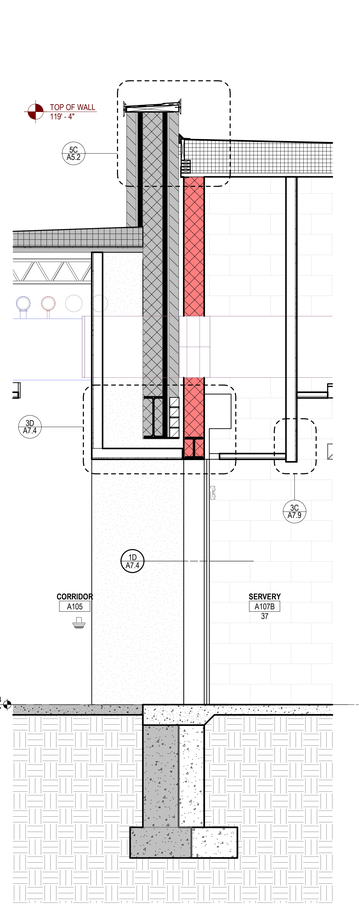
6A A4.2 WALL SECTION - FW - B ROOF
Scale: 1/2" = 1'-0"



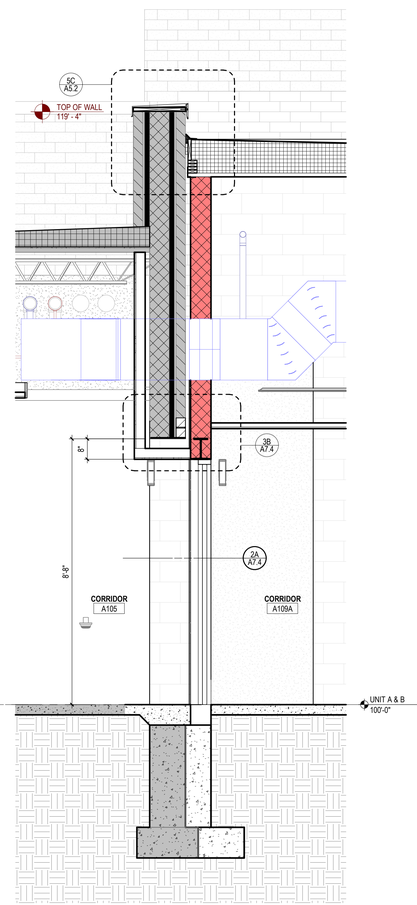
4A A4.2 WALL SECTION - FW - C ROOF
Scale: 1/2" = 1'-0"



3A A4.2 WALL SECTION - FW - COILING DOOR
Scale: 1/2" = 1'-0"



2A A4.2 WALL SECTION - FW - COILING DOOR1
Scale: 1/2" = 1'-0"



1A A4.2 WALL SECTION - FW - FIRE DOOR
Scale: 1/2" = 1'-0"

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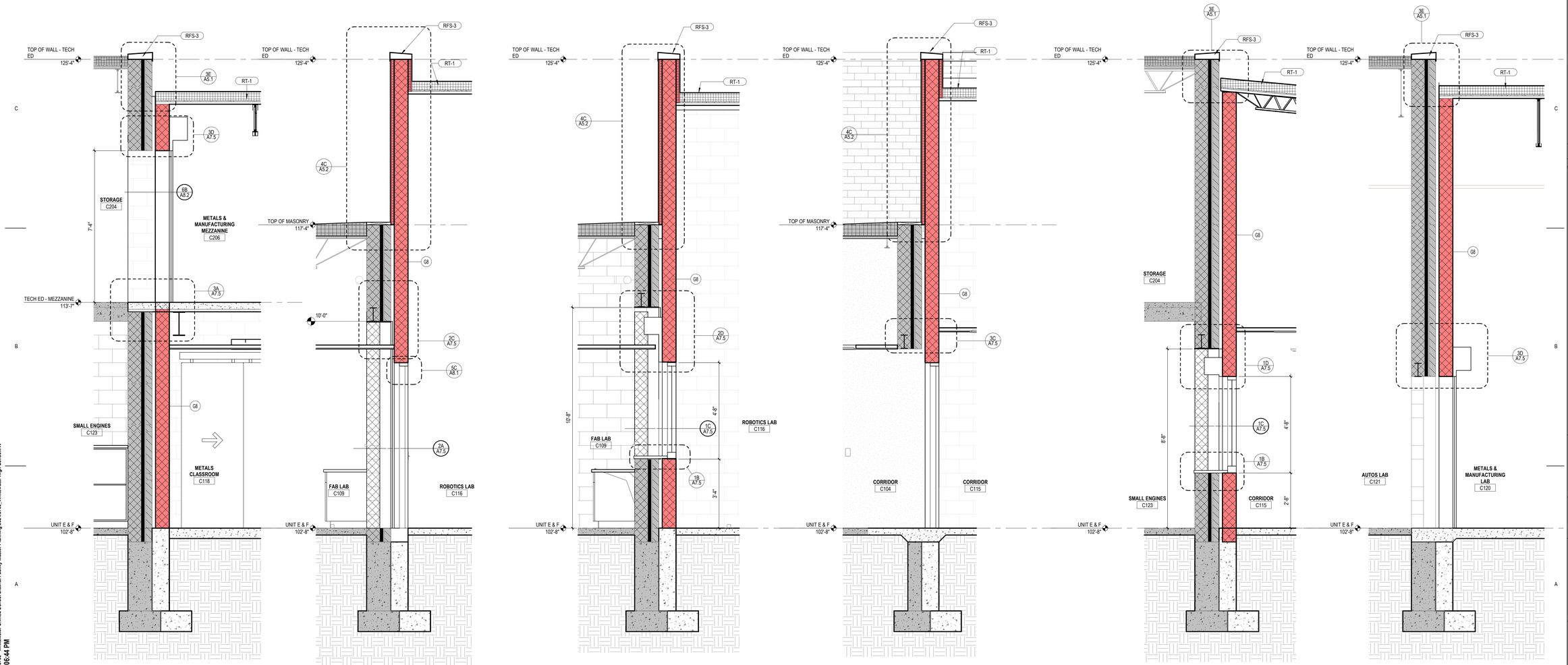
KEYNOTE LEGEND

RFS-3	METAL COPING
RT-1	ROOF TYPE 1



6A A4.3 UNIT F - SECTION - TECH ED - MEZZ
Scale: 1/2" = 1'-0"

5A A4.3 WALL SECTION - ROBOTIC - DOOR
Scale: 1/2" = 1'-0"

4A A4.3 SECTION - ROBOTIC - COILING DOOR
Scale: 1/2" = 1'-0"

3A A4.3 WALL SECTION - CORRIDOR - FW
Scale: 1/2" = 1'-0"

2A A4.3 WALL SECTION - TECH ED - MEZZ - FW
Scale: 1/2" = 1'-0"

1A A4.3 UNIT F - WALL SECTION - TECH ED - FW
Scale: 1/2" = 1'-0"

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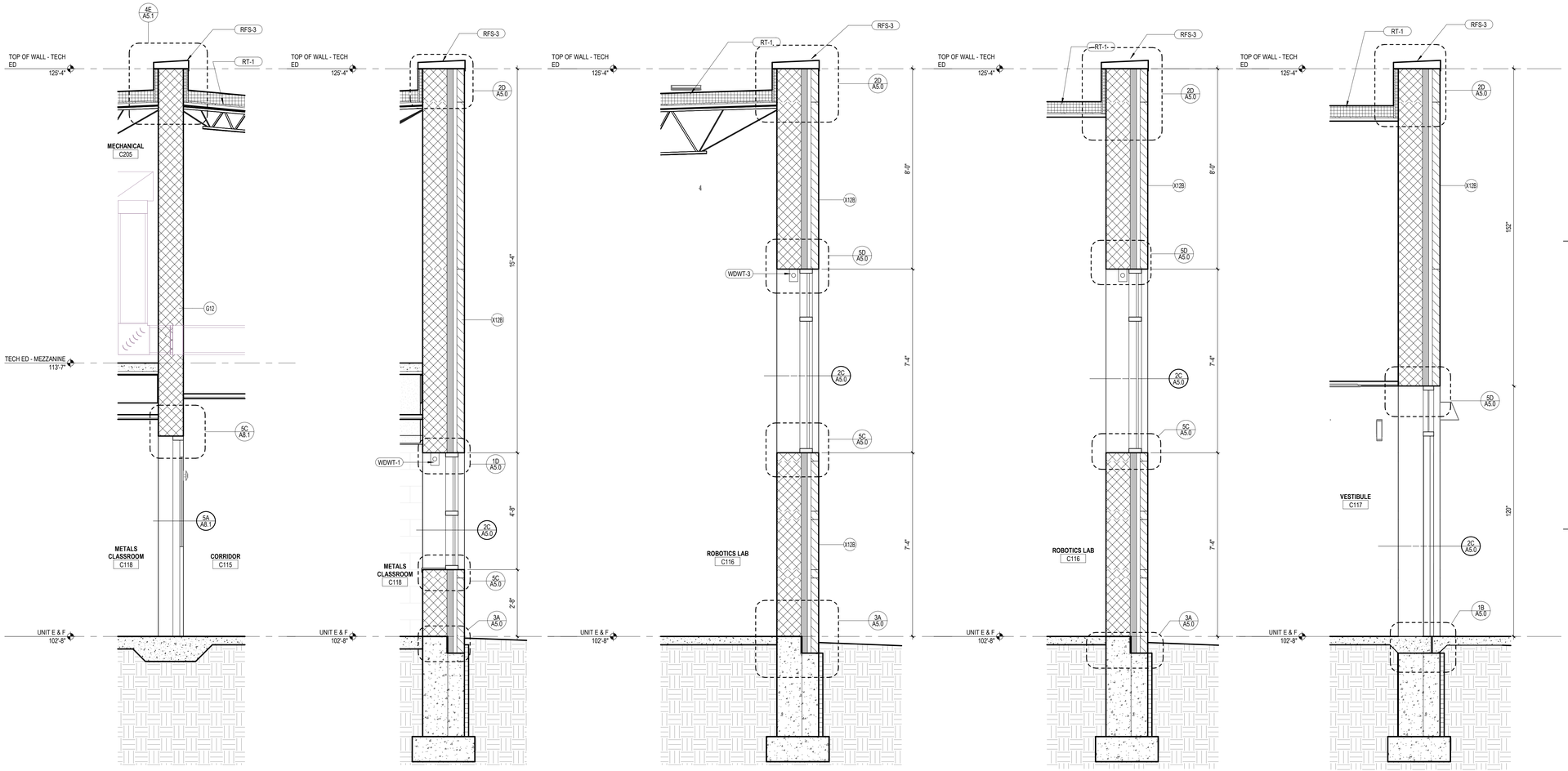
KEYNOTE LEGEND

RFS-3	METAL COPING
RT-1	ROOF TYPE 1
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-3	WINDOW TREATMENT (MOTORIZED BLACKOUT ROLLER SHADE) - SEE INTERIOR FINISH LEGEND



5A A4.4 WALL SECTION -- CLASSROOM
Scale: 1/2" = 1'-0"

4A A4.4 WALL SECTION -- CLASSROOM
Scale: 1/2" = 1'-0"

3A A4.4 WALL SECTION -- ROBOTICS
Scale: 1/2" = 1'-0"

2A A4.4 WALL SECTION - ROBOTICS - WINDOW
Scale: 1/2" = 1'-0"

1A A4.4 WALL SECTION - UNIT F - ENTRANCE
Scale: 1/2" = 1'-0"

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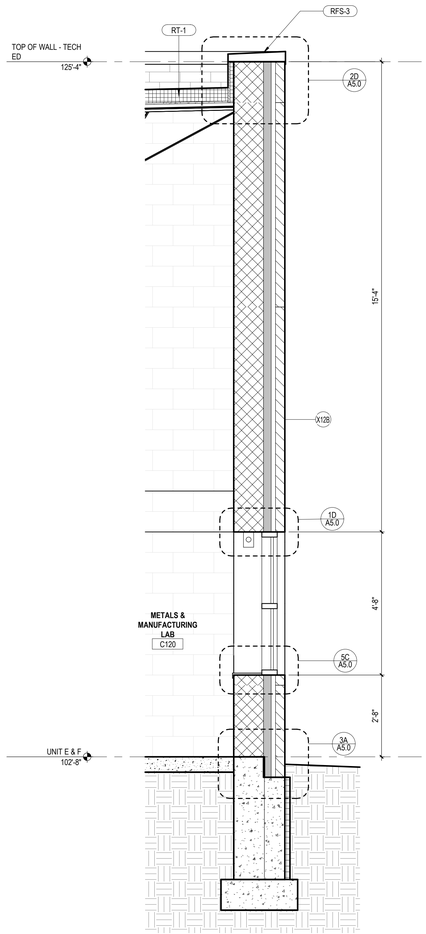
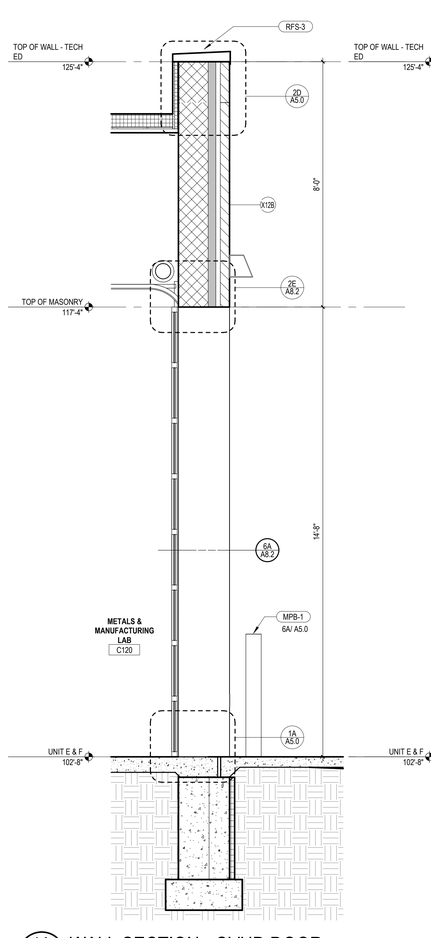
KEYNOTE LEGEND

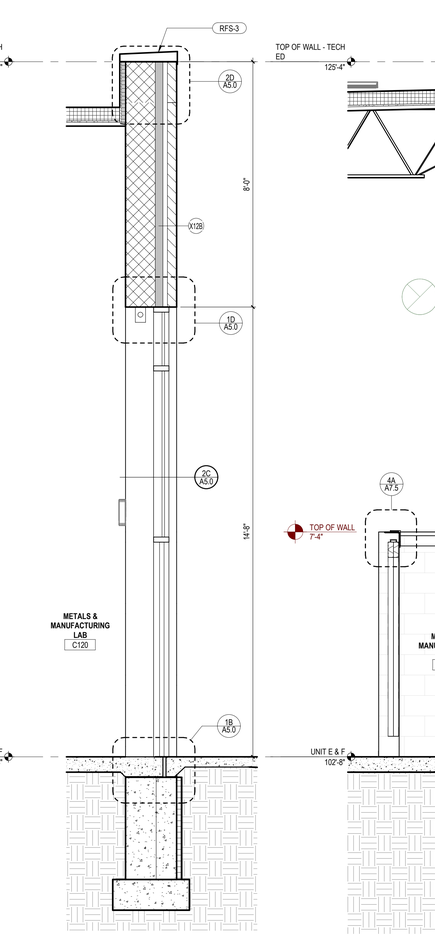
MPB-1	METAL (PIPE) BOLLARD - PT-7
RFS-3	METAL COPING
RT-1	ROOF TYPE 1



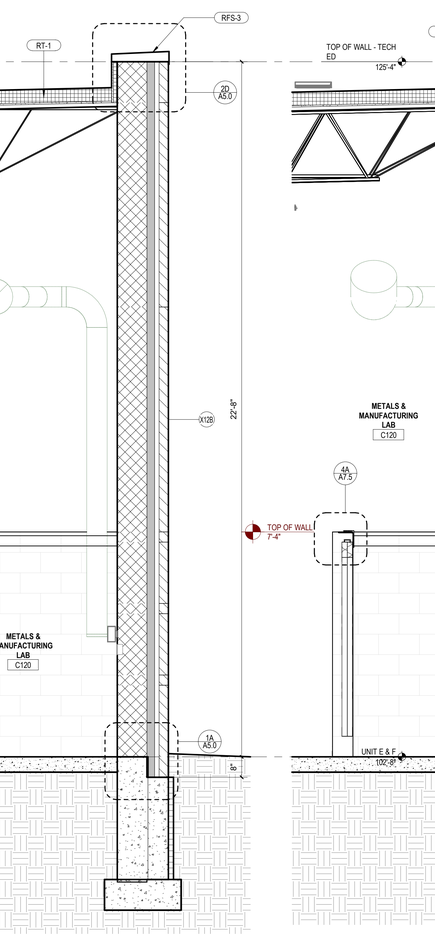
5A A4.5 UNIT F - TYPICAL WALL SECTION
Scale: 1/2" = 1'-0"



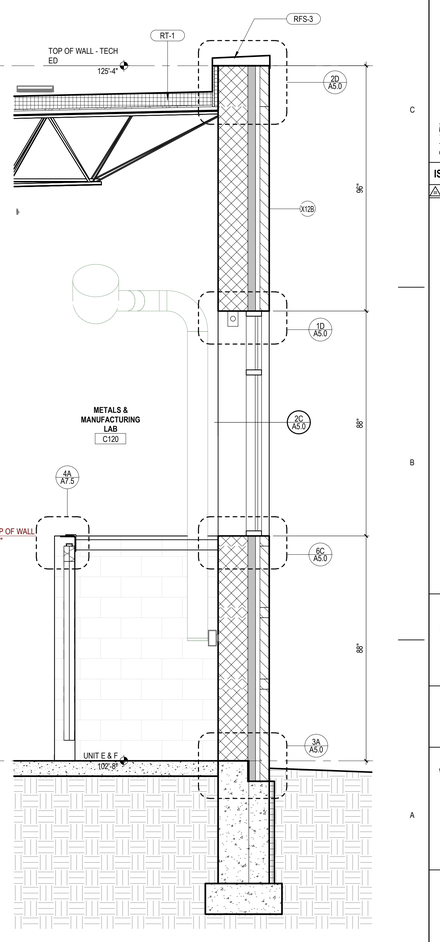
4A A4.5 WALL SECTION - OVHD DOOR
Scale: 1/2" = 1'-0"



3A A4.5 WALL SECTION - METALS ENTRANCE
Scale: 1/2" = 1'-0"



2A A4.5 UNIT F - SECTION - TECH ED - OVH
Scale: 1/2" = 1'-0"



1A A4.5 WALL SECTION - TECH ED - DOOR
Scale: 1/2" = 1'-0"

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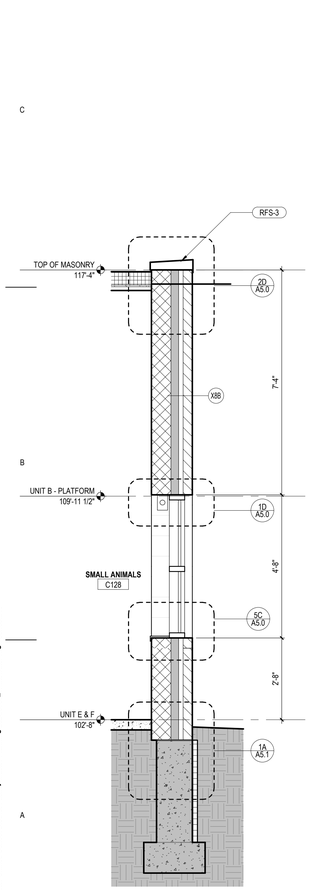
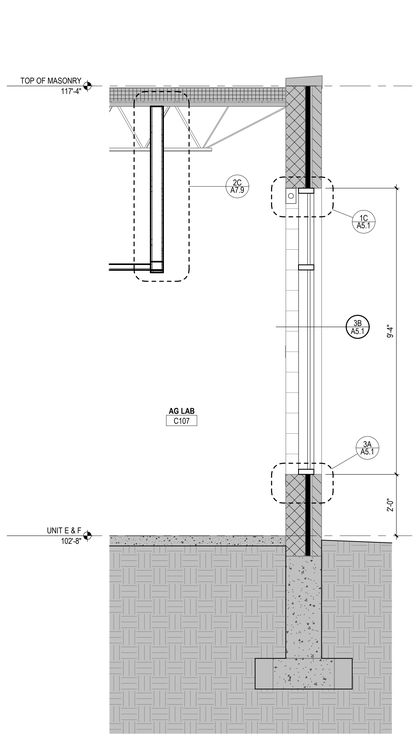
KEYNOTE LEGEND

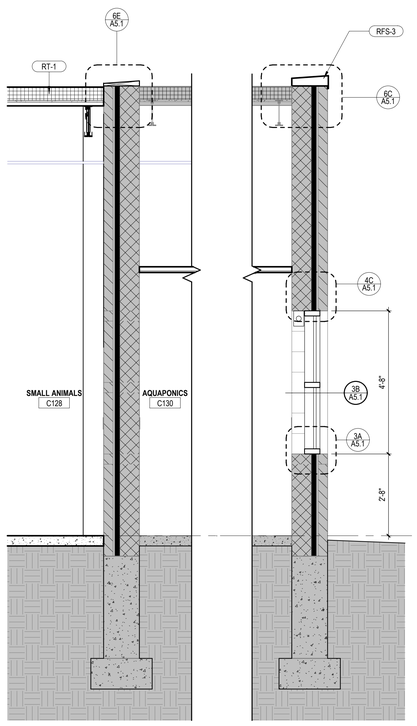
MPB-1	METAL (PIPE) BOLLARD - PT-7
RFS-3	METAL COPING
RT-1	ROOF TYPE 1



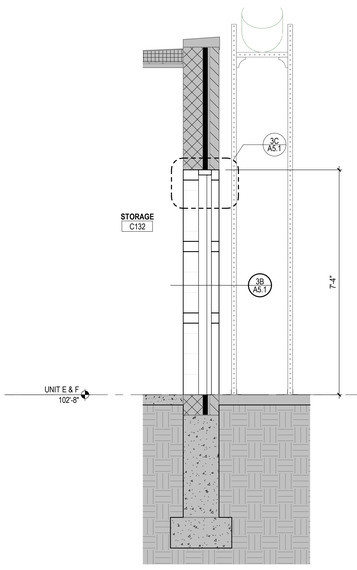
6A WALL SECTION - SMALL ANIMALS
A4.6 Scale: 1/2" = 1'-0"



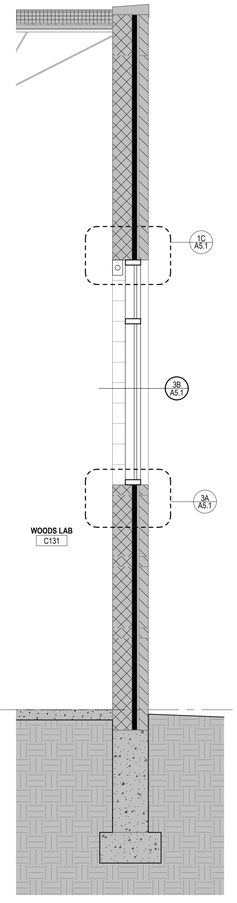
5A WALL SECTION - AG LAB
A4.6 Scale: 1/2" = 1'-0"



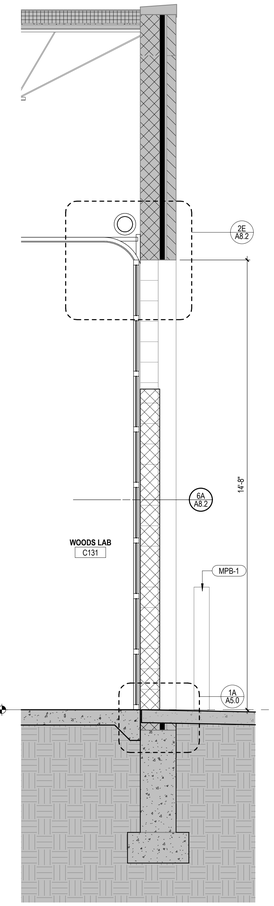
4A WALL SECTION - EXIST - SF
A4.6 Scale: 1/2" = 1'-0"



3A WALL SECTION - EXIT - DOOR
A4.6 Scale: 1/2" = 1'-0"



2A WALL SECTION - EXIST - HI - SF
A4.6 Scale: 1/2" = 1'-0"



1A WALL SECTION - EXIST - OVHD DOOR
A4.6 Scale: 1/2" = 1'-0"

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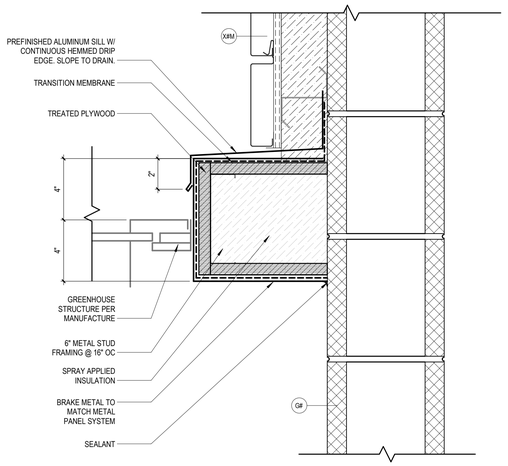
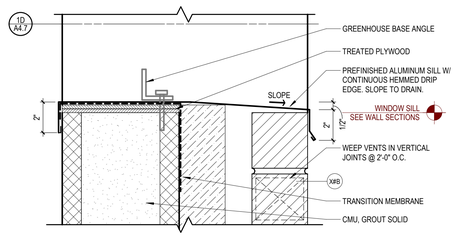
RFS-3	METAL COPING
RT-1	ROOF TYPE 1



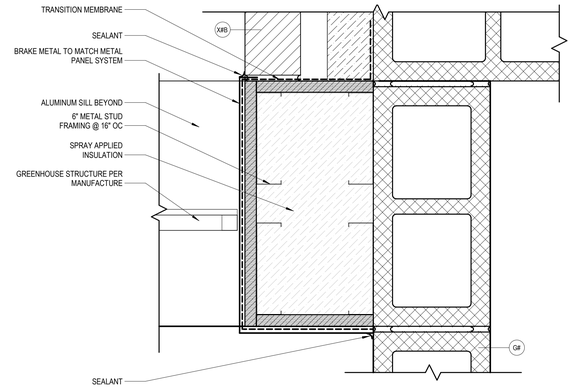
5D A4.7 GREENHOUSE - SECTION DETAIL

Scale: 3" = 1'-0"



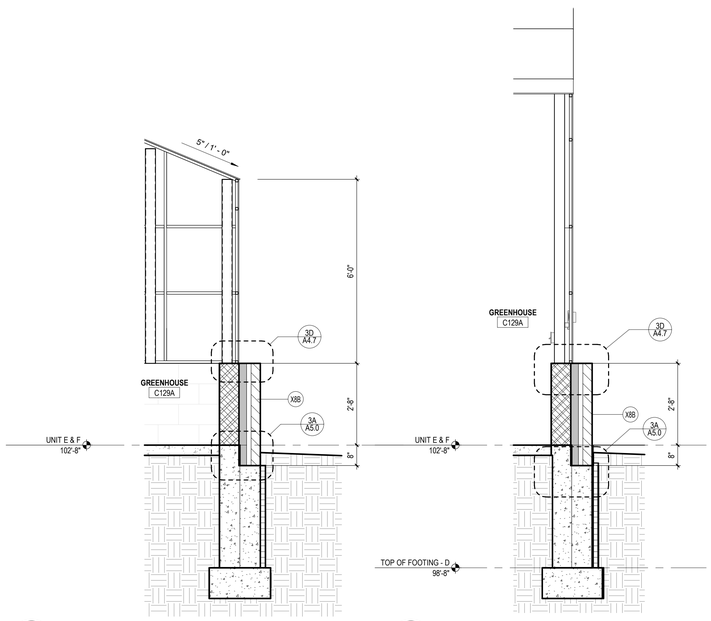
3D A4.7 MASONRY - GREENHOUSE SILL

Scale: 3" = 1'-0"



1D A4.7 GREENHOUSE - PLAN DETAIL

Scale: 3" = 1'-0"

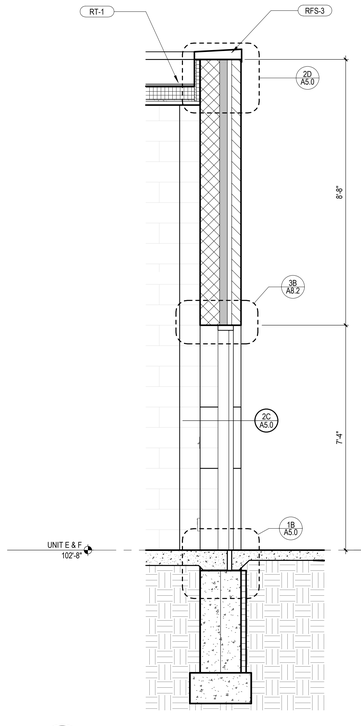


4A A4.7 WALL SECTION - GREENHOUSE - SIDE

Scale: 1/2" = 1'-0"

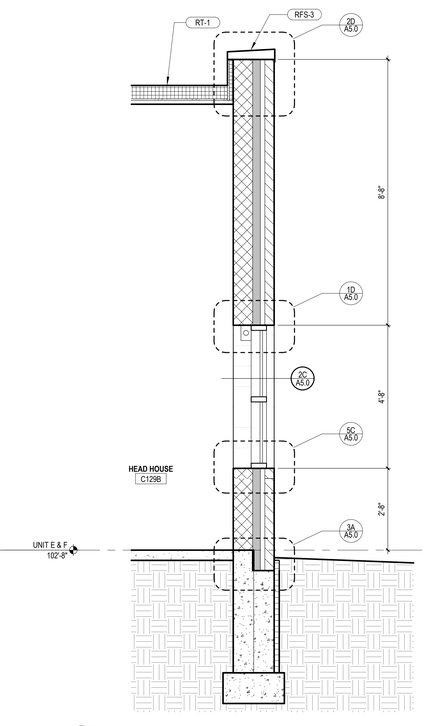
3A A4.7 WALL SECTION - GREENHOUSE - END

Scale: 1/2" = 1'-0"



2A A4.7 SECTION - HEAD HOUSE - DOOR

Scale: 1/2" = 1'-0"



1A A4.7 SECTION - HEAD HOUSE - WINDOW

Scale: 1/2" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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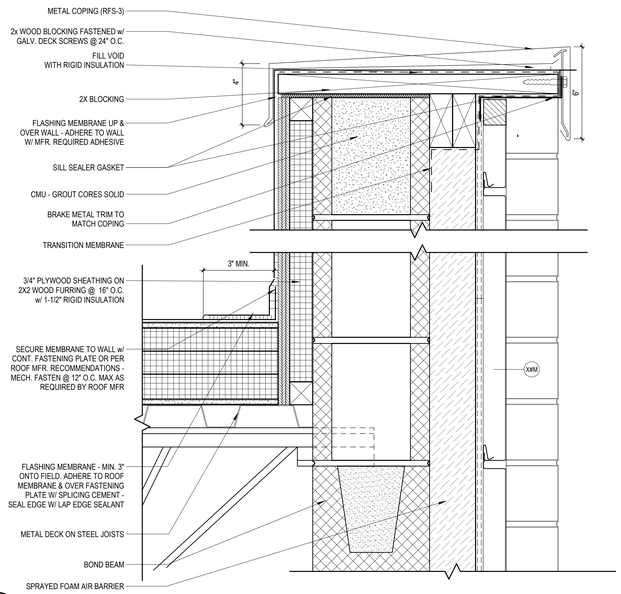
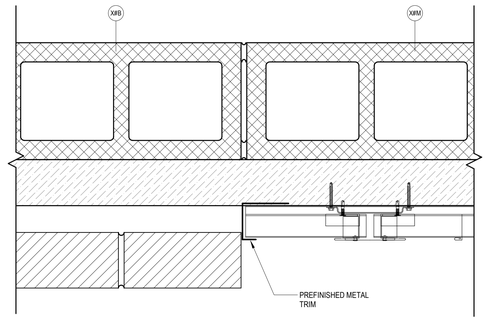
KEYNOTE LEGEND

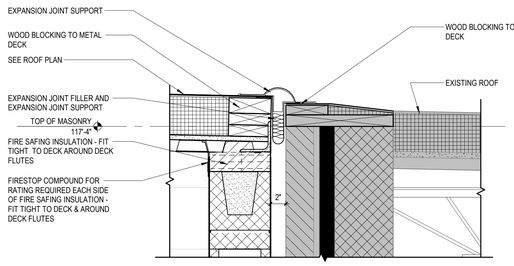
FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
RFS-3	METAL COPING
RT-1	ROOF TYPE 1



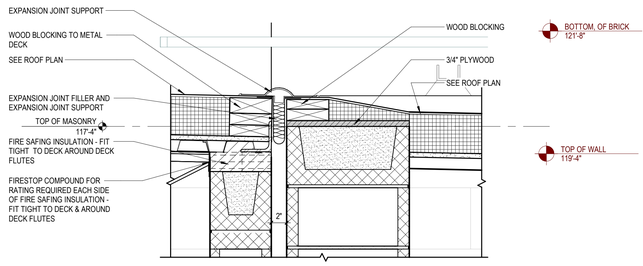
6D A4.8 PARAPET - CMU/ METAL PANEL
Scale: 3" = 1'-0"



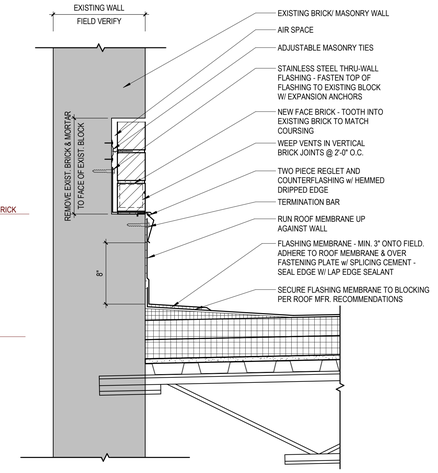
5E A4.8 JAMB - CMU / METAL PANEL
Scale: 3" = 1'-0"



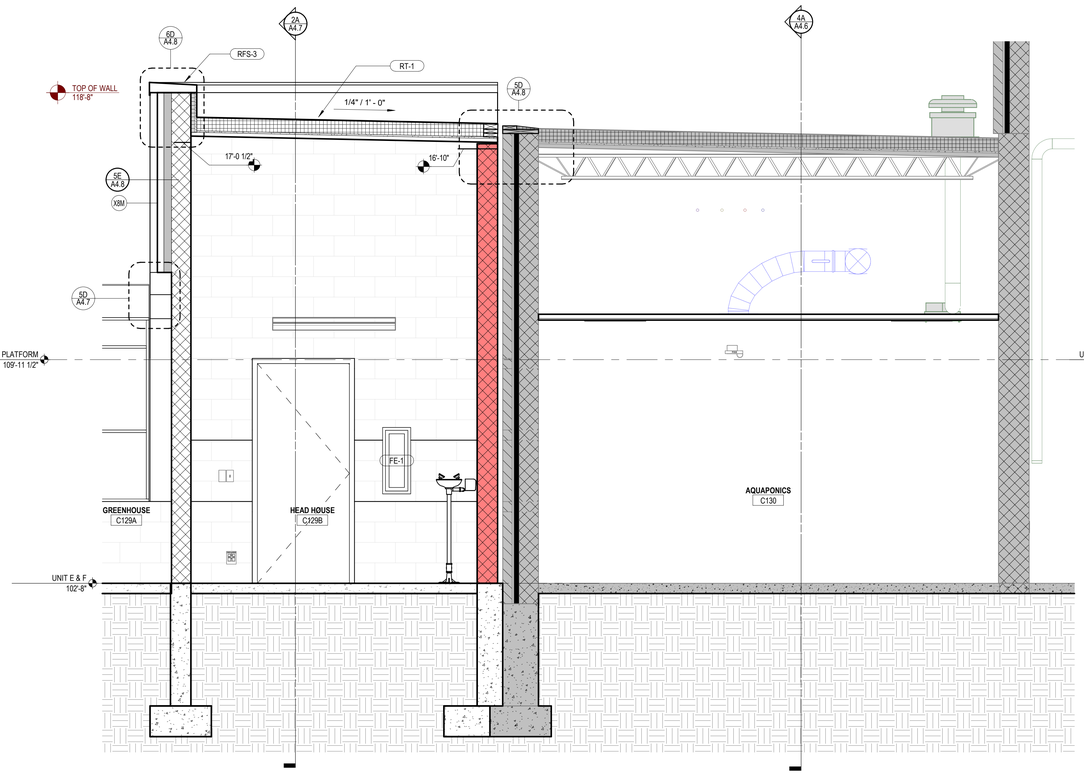
5D A4.8 GREENHOUSE ROOF DETAIL - EXISTING
Scale: 1 1/2" = 1'-0"



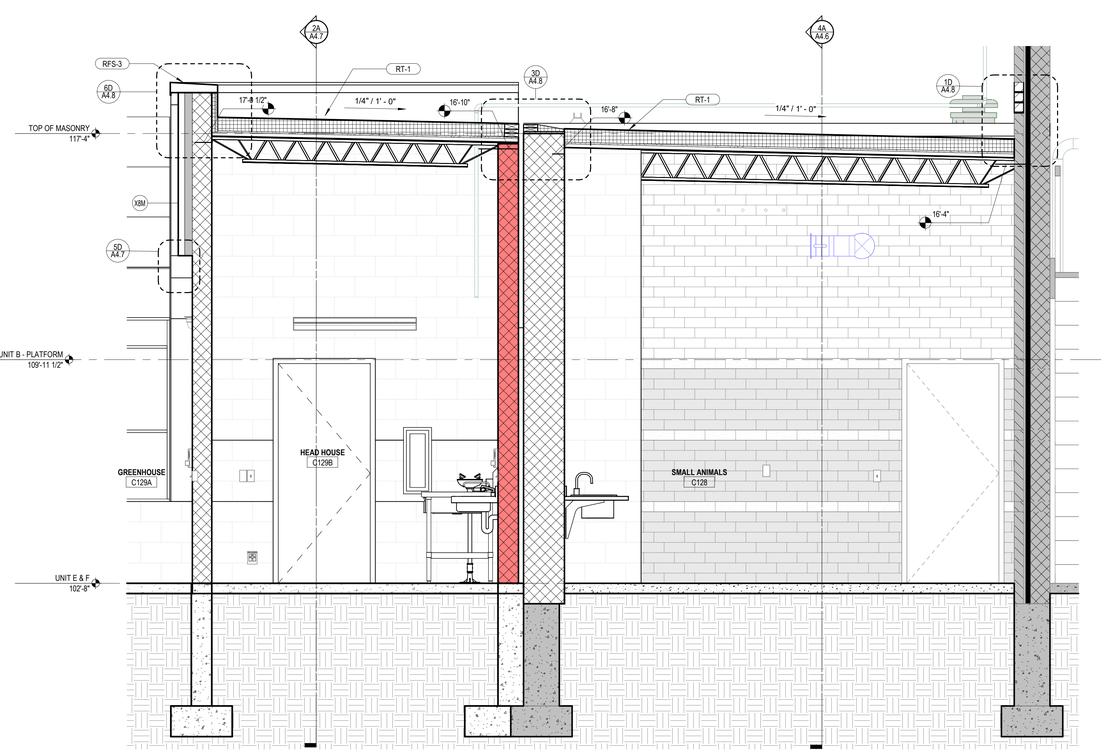
3D A4.8 GREENHOUSE ROOF DETAIL - NEW
Scale: 1 1/2" = 1'-0"



1D A4.8 WALL TO EXIST. WALL EXPANSION JOINT
Scale: 1 1/2" = 1'-0"



5A A4.8 WALL SECTION - GREENHOUSE
Scale: 1/2" = 1'-0"



2A A4.8 WALL SECTION - GREENHOUSE
Scale: 1/2" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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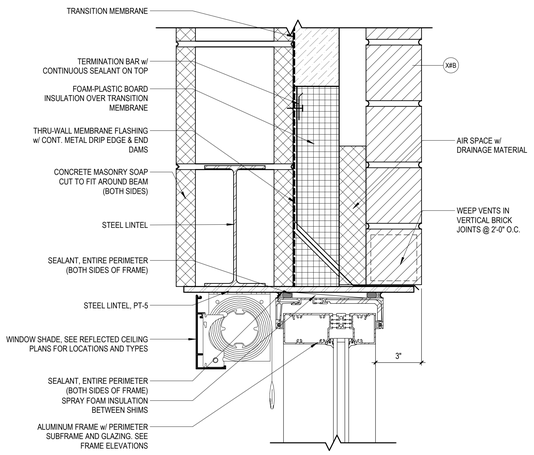
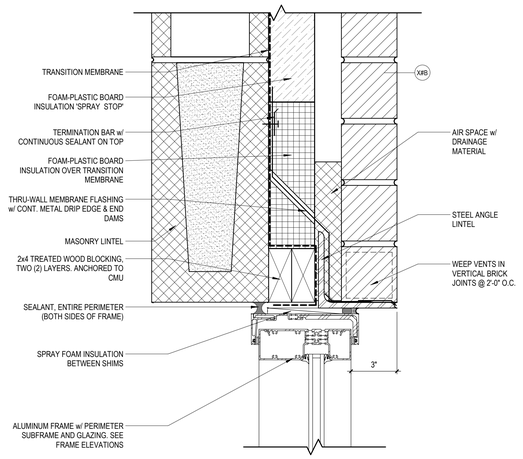


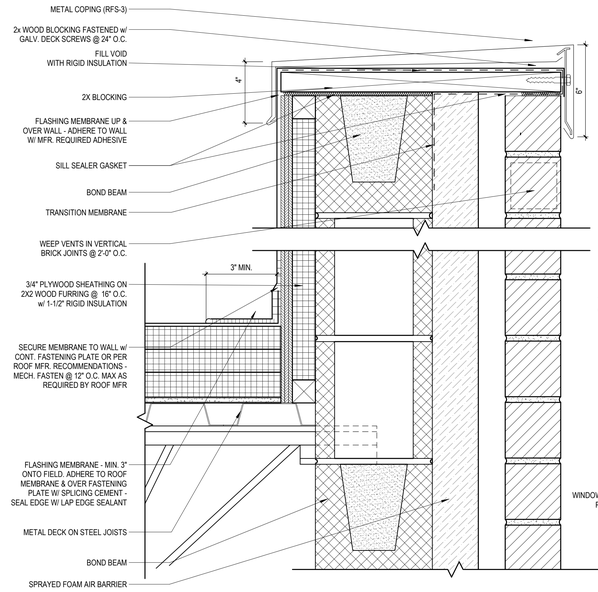
6D SF HEAD - CMU / BRICK - STEEL

A5.0 Scale: 3" = 1'-0"



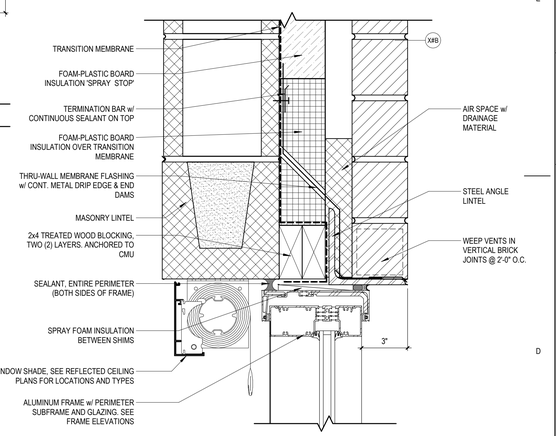
5D SF HEAD - MASONRY - LARGE OPENING

A5.0 Scale: 3" = 1'-0"



2D PARAPET - CMU/ BRICK

A5.0 Scale: 3" = 1'-0"



1D SF HEAD - CMU / BRICK - MASONRY

A5.0 Scale: 3" = 1'-0"

6C MASONRY - SF SILL @ CMU

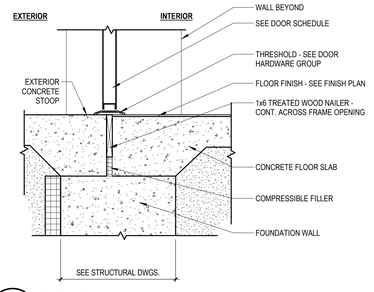
A5.0 Scale: 3" = 1'-0"

5C MASONRY - SF SILL @ CMU

A5.0 Scale: 3" = 1'-0"

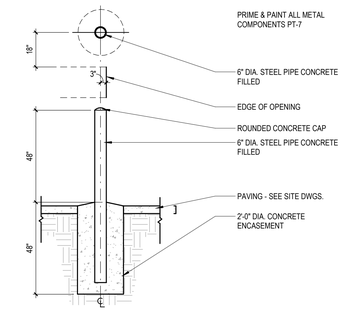
2C SF JAMB - CMU / BRICK

A5.0 Scale: 3" = 1'-0"



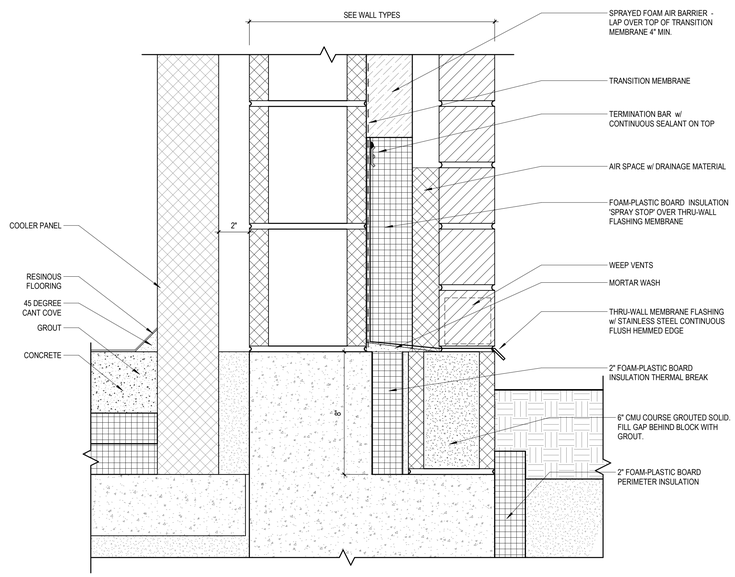
1B DOOR SILL

A5.0 Scale: 1 1/2" = 1'-0"



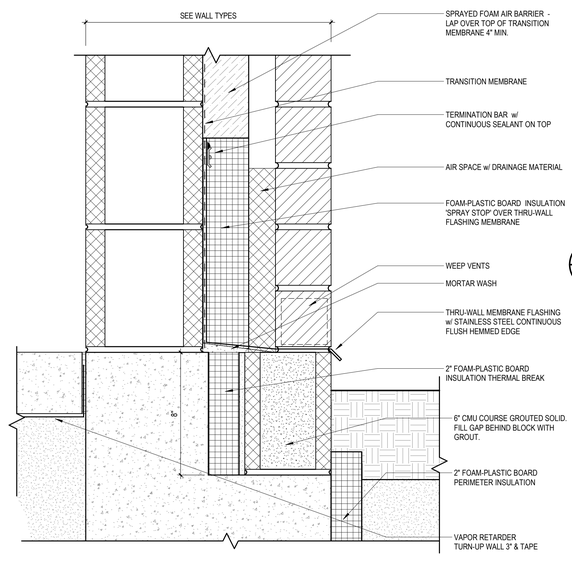
6A GUARD POST (MPB-1)

A5.0 Scale: 3/8" = 1'-0"



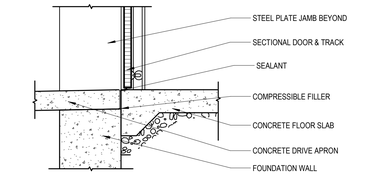
5A BASE OF WALL - FREEZER

A5.0 Scale: 3" = 1'-0"



3A BASE OF WALL - CMU BRICK

A5.0 Scale: 3" = 1'-0"



1A OVERHEAD DOOR SILL

A5.0 Scale: 3/4" = 1'-0"

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Milwaukee, Wisconsin 53204
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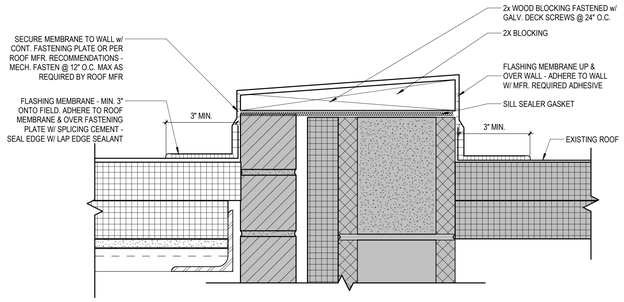
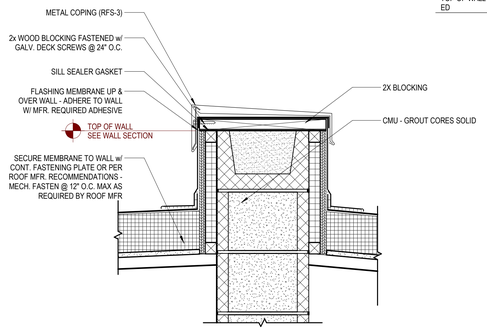
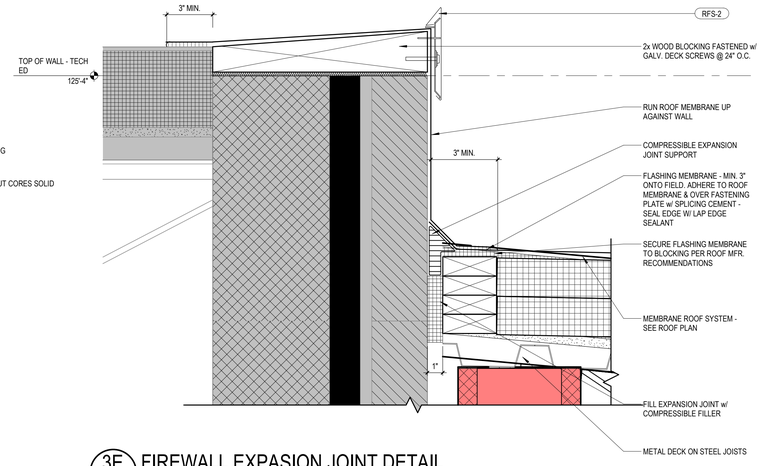
RFS-2	ROOF EDGE FASCIA



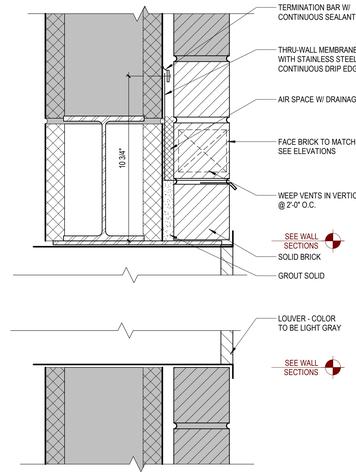
6E PARAPET - CMU/ BRICK - NEW/EXIST
A5.1 Scale: 3" = 1'-0"



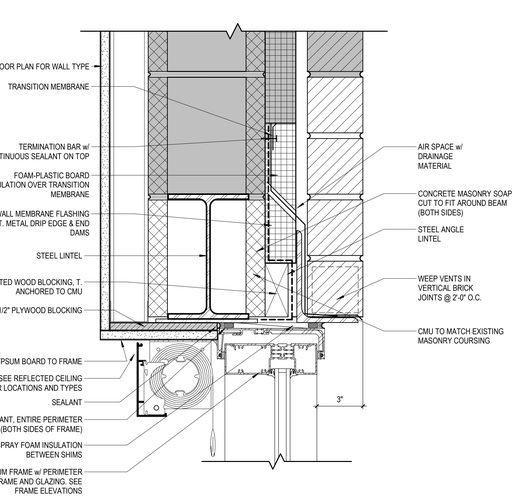
4E SECTION DETAIL - ROOF TRANSITION
A5.1 Scale: 1 1/2" = 1'-0"



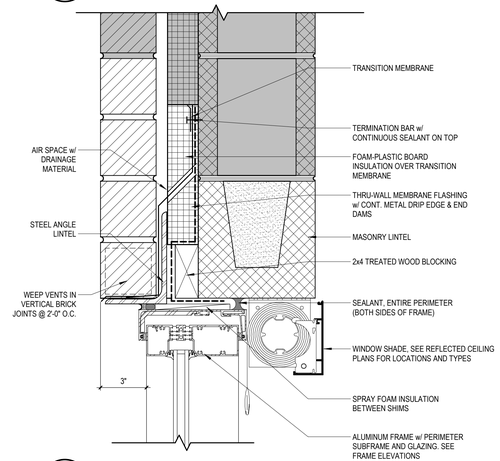
3E FIREWALL EXPASION JOINT DETAIL
A5.1 Scale: 3" = 1'-0"



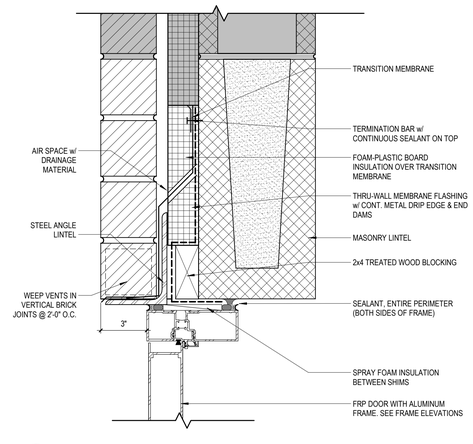
1D MASONRY - LOUVER @ CMU - EXIST
A5.1 Scale: 3" = 1'-0"



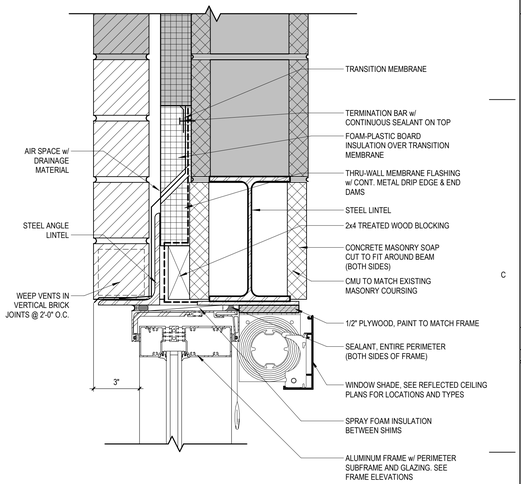
6C PARAPET - CMU/ BRICK - EXIST
A5.1 Scale: 3" = 1'-0"



4C SF HEAD - CMU / BRICK - EXIST
A5.1 Scale: 3" = 1'-0"

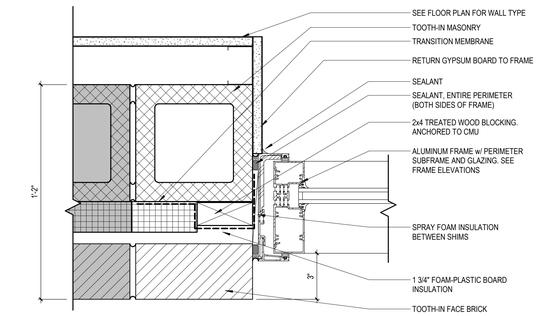


3C DOOR HEAD - CMU / BRICK - EXIST
A5.1 Scale: 3" = 1'-0"

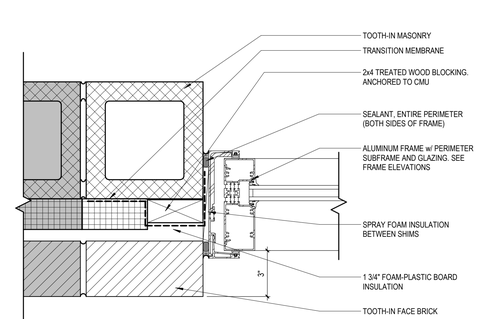


1C SF HEAD - STEEL / BRICK - EXIST
A5.1 Scale: 3" = 1'-0"

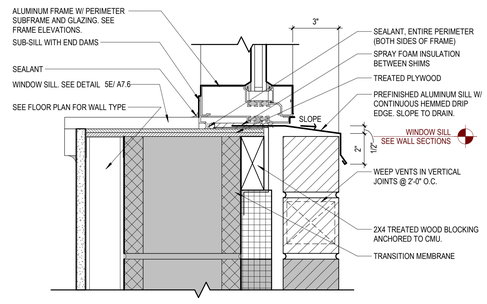
6A SF HEAD - CMU / BRICK / GYP- EXIST
A5.1 Scale: 3" = 1'-0"



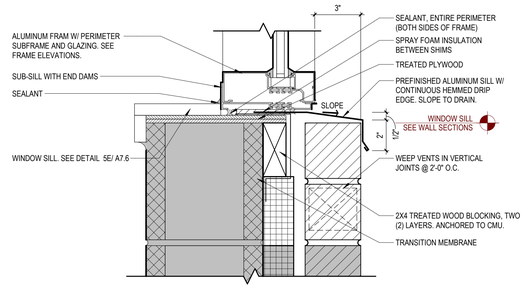
5B SF JAMB - CMU / BRICK / GYP - EXIST
A5.1 Scale: 3" = 1'-0"



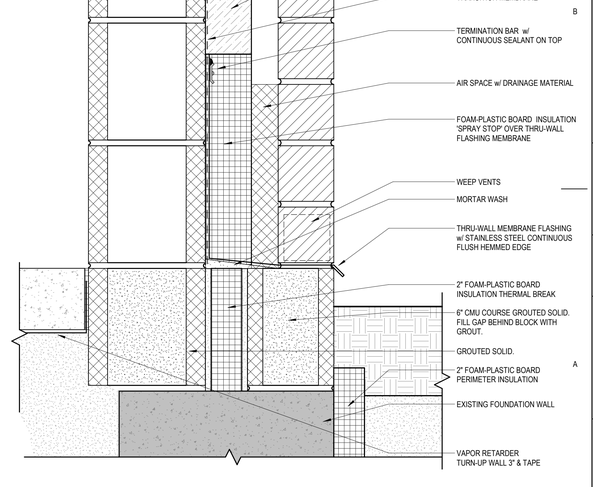
3B SF JAMB - CMU / BRICK - EXIST
A5.1 Scale: 3" = 1'-0"



5A SF SILL @ CMU/GYP - EXIST
A5.1 Scale: 3" = 1'-0"



3A MASONRY - SF SILL @ CMU - EXIST
A5.1 Scale: 3" = 1'-0"



1A BASE OF WALL - CMU BRICK - EXIST
A5.1 Scale: 3" = 1'-0"

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Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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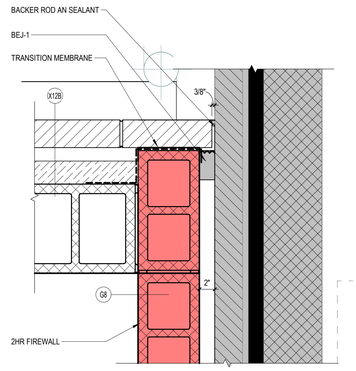
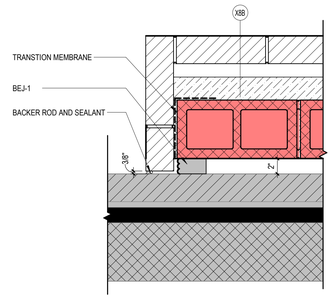
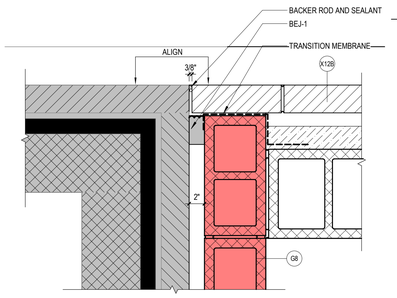


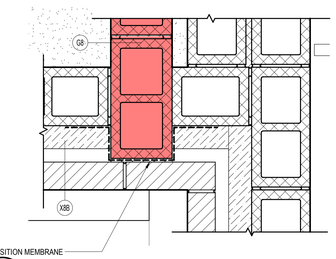
2B A5.3 DETAIL - GREENHOUSE - NEW/EXIST
Scale: 1 1/2" = 1'-0"



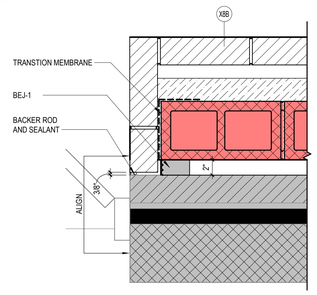
3B A5.3 DETAIL - FW - ENTRANCE
Scale: 1 1/2" = 1'-0"



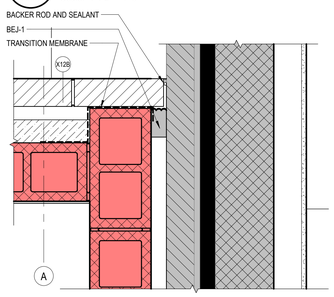
1B A5.3 DETAIL - FW - TECH ED
Scale: 1 1/2" = 1'-0"



2A A5.3 DETAIL - FW - GREENHOUSE - NEW
Scale: 1 1/2" = 1'-0"



3A A5.3 DETAIL - FW - ENTRANCE - DOOR
Scale: 1 1/2" = 1'-0"



1A A5.3 PLAN DETAIL - FW - WALL
Scale: 1 1/2" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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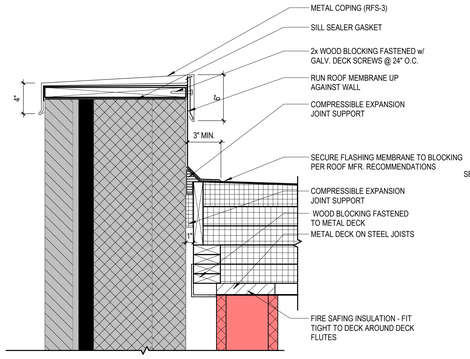
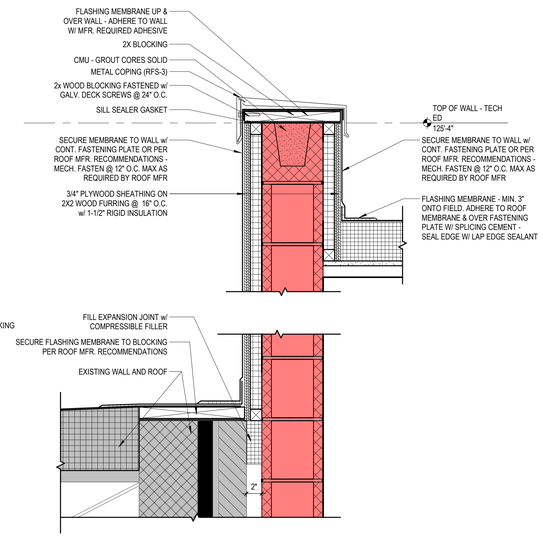
KEYNOTE LEGEND

RFS-2	ROOF EDGE FASCIA



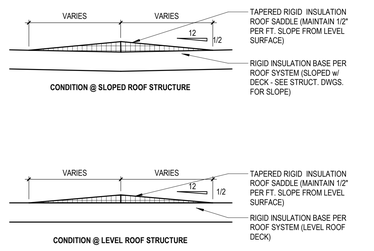
5C A5.2 FIREWALL TOP WALL DETAIL

Scale: 1 1/2" = 1'-0"



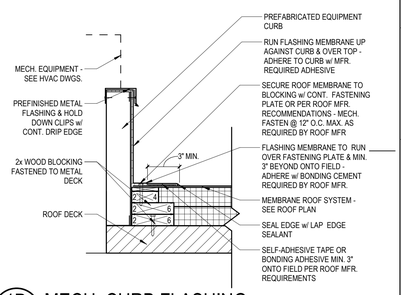
4C A5.2 FIREWALL TOP WALL DETAIL - ROOF TRANSITION

Scale: 1 1/2" = 1'-0"



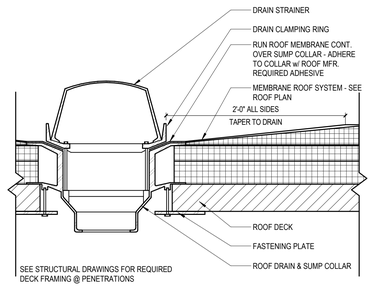
2D A5.2 TYP. ROOF SADDLE

Scale: 3/4" = 1'-0"



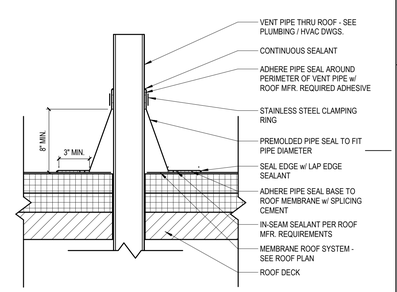
1D A5.2 MECH. CURB FLASHING

Scale: 1 1/2" = 1'-0"



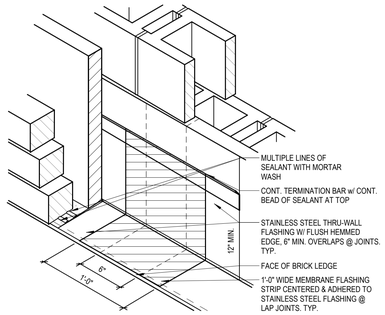
2C A5.2 TYPICAL ROOF DRAIN

Scale: 1 1/2" = 1'-0"



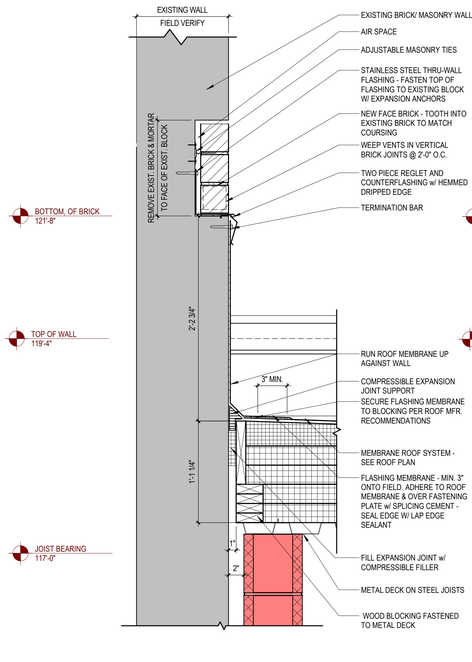
1C A5.2 VENT PIPE FLASHING

Scale: 1 1/2" = 1'-0"



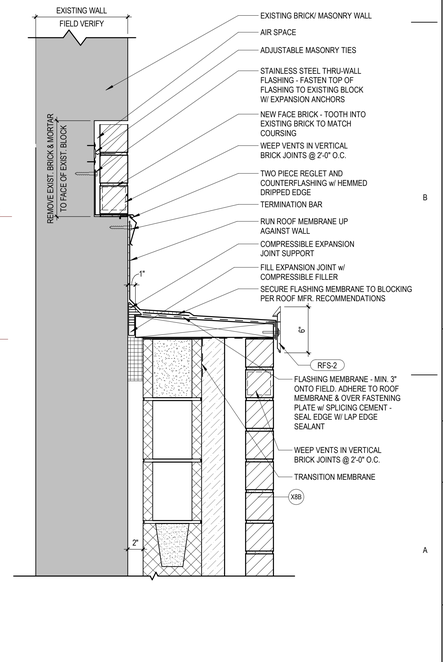
4B A5.2 STAINLESS STEEL THRU-WALL FLASHING JOINT

Scale: 1 1/2" = 1'-0"



2A A5.2 ROOF TO EXIST. EXPANSION JOINT

Scale: 1 1/2" = 1'-0"



1A A5.2 WALL TO EXIST. EXPANSION JOINT

Scale: 1 1/2" = 1'-0"

4A A5.2 THRU-WALL FLASHING END DAM

Scale: 3" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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EXTERIOR DETAILS

Sheet Number:
A5.2

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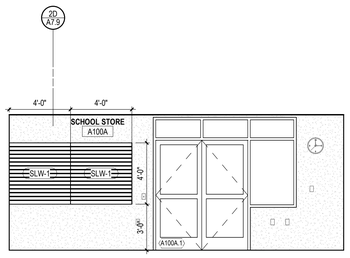
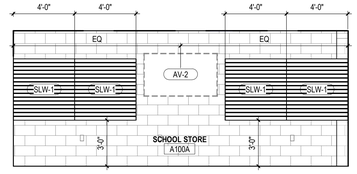
KEYNOTE LEGEND

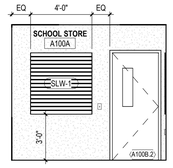
AV-2	60" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
BN-1A	WOOD BENCH - ACCESSIBLE
CH-1	DOUBLE COAT HOOK
LKR-1	LOCKERS - KNOCK-DOWN
PLAM-2	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
SLW-1	SLAT WALL
SSF-2	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
TA-1	TOILET TISSUE DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-2	SANITARY NAPKIN DISPOSAL UNIT - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-6	GRAB BAR SET (42", 36" AND 18")
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-12	MIRROR UNIT (24" X 36")



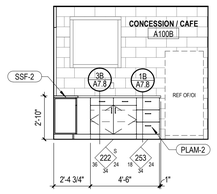
4D INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



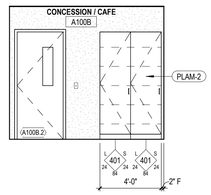
2D INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



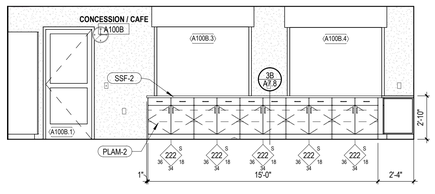
1D INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



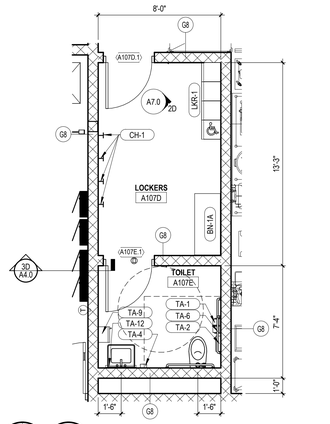
3C INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



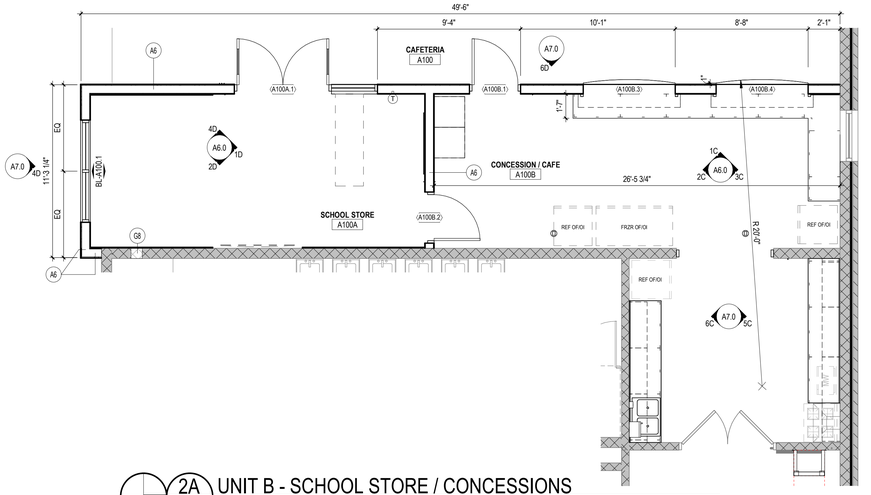
2C INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



1C INTERIOR ELEVATION
A6.0 Scale: 1/4" = 1'-0"



4A UNIT B - TOILET A107E
A6.0 Scale: 1/4" = 1'-0"



2A UNIT B - SCHOOL STORE / CONCESSIONS
A6.0 Scale: 1/4" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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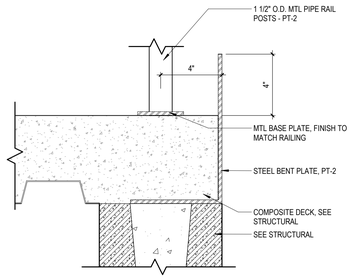
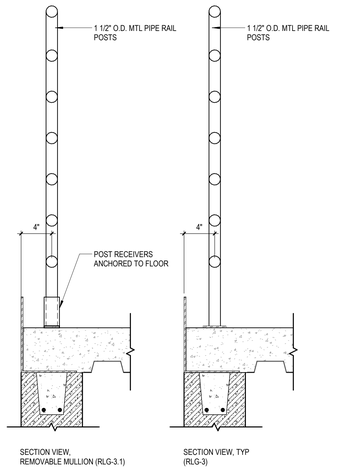
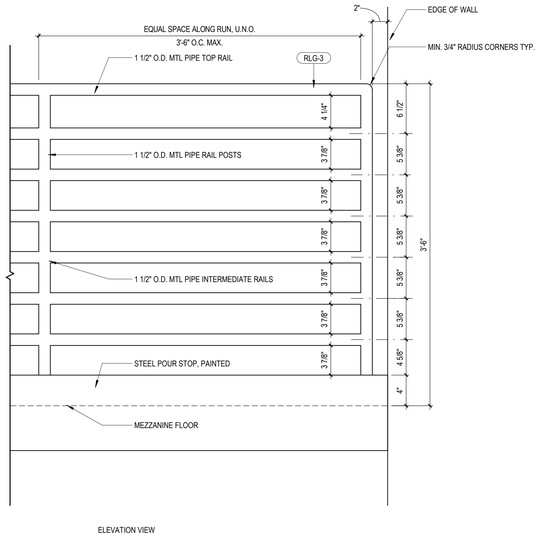
KEYNOTE LEGEND

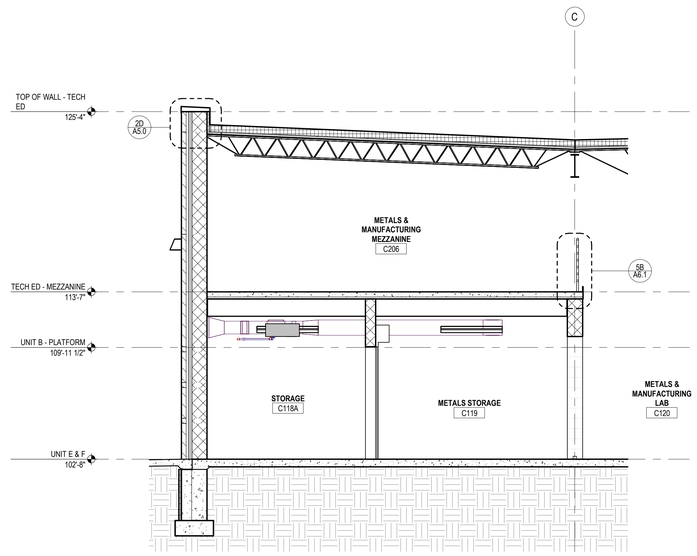
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
RLG-1	PIPE METAL HANDRAIL - WALL MOUNTED
RLG-3	PIPE AND TUBE METAL HANDRAIL - MEZZANINE



PAINT ALL METAL COMPONENTS PT-2



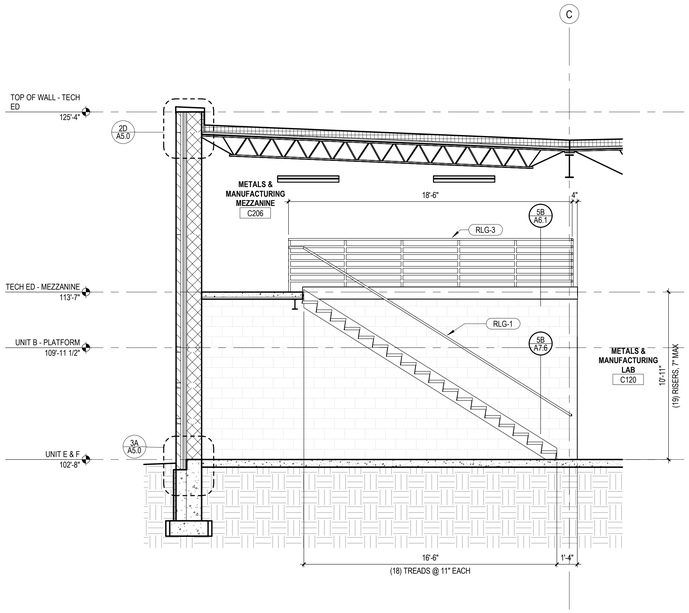


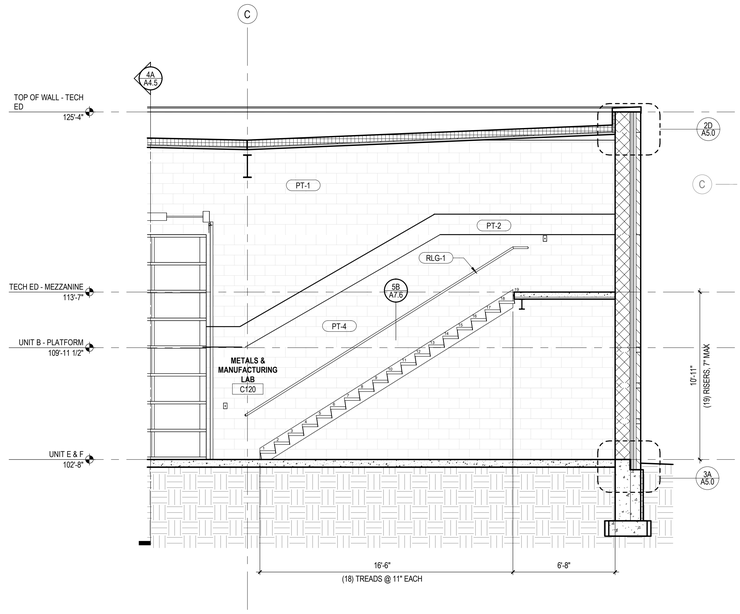


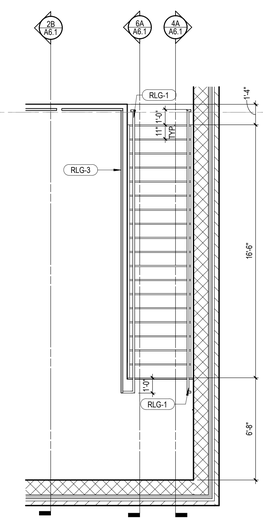
6B RAILING BASE DETAIL - TECH ED
A6.1 Scale: 3" = 1'-0"

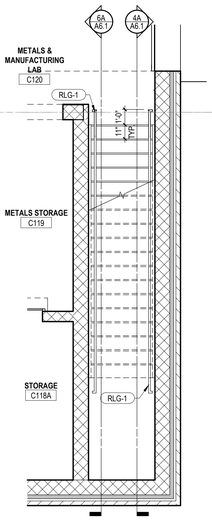
5B RAILING DETAIL - TECH ED
A6.1 Scale: 1 1/2" = 1'-0"

2B UNIT F - STAIR SECTION
A6.1 Scale: 1/4" = 1'-0"









6A UNIT F - STAIR SECTION1
A6.1 Scale: 1/4" = 1'-0"

4A UNIT F - STAIR SECTION
A6.1 Scale: 1/4" = 1'-0"

2A UNIT F - STAIR PLAN - MEZZANINE
A6.1 Scale: 1/4" = 1'-0"

1A UNIT F - STAIR
A6.1 Scale: 1/4" = 1'-0"

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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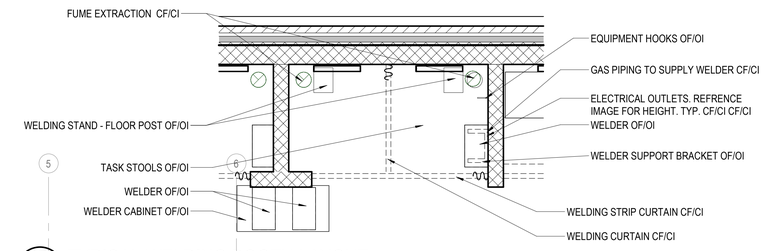
3. FLOOR PLAN AND SCHEDULES ARE FOR COORDINATION PURPOSES ONLY.
4. FINAL LOCATIONS OF ALL EQUIPMENT TO BE VERIFIED BY OWNER PRIOR TO INSTALL.

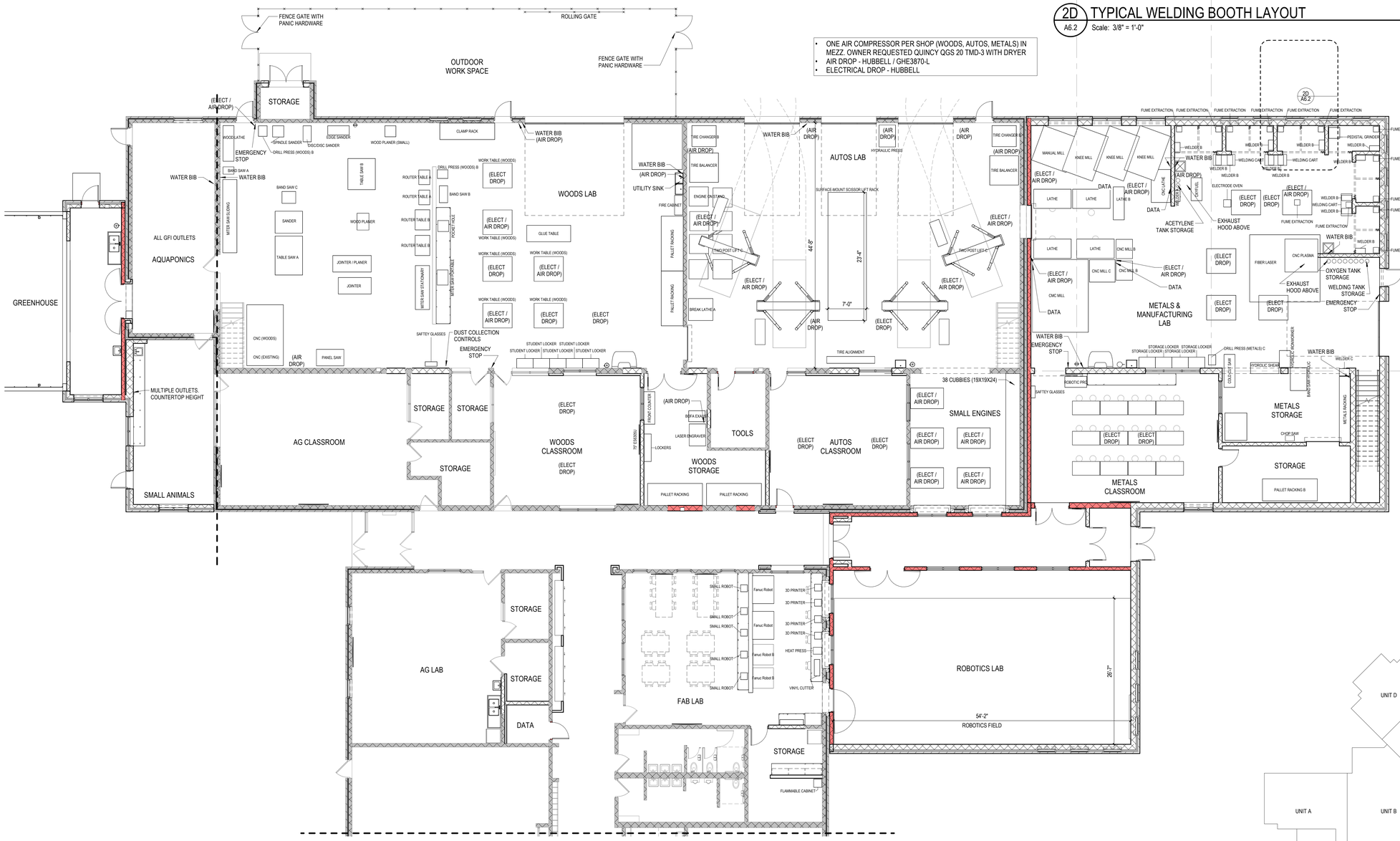
WELDING BOOTH LAYOUT EXAMPLE



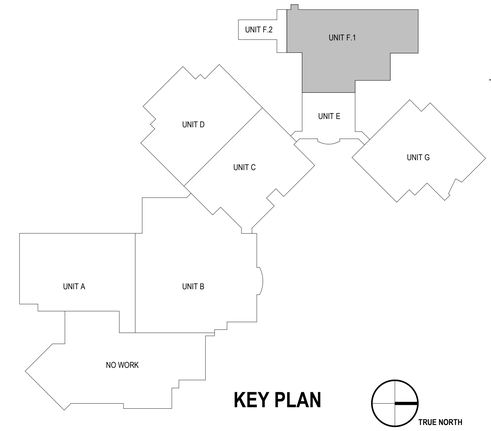


2D TYPICAL WELDING BOOTH LAYOUT
A6.2 — Scale: 3/8" = 1'-0"

- ONE AIR COMPRESSOR PER SHOP (WOODS, AUTOS, METALS) IN MEZZ. OWNER REQUESTED QUINCY QGS 20 TMD-3 WITH DRYER
- AIR DROP - HUBBELL / GHE3870-L
- ELECTRICAL DROP - HUBBELL



6A UNIT F - FIRST FLOOR EQUIPMENT PLAN
A6.2 — Scale: 1/8" = 1'-0"



KEY PLAN

TRUE NORTH

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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UNIT F- FIRST FLOOR EQUIPMENT PLAN

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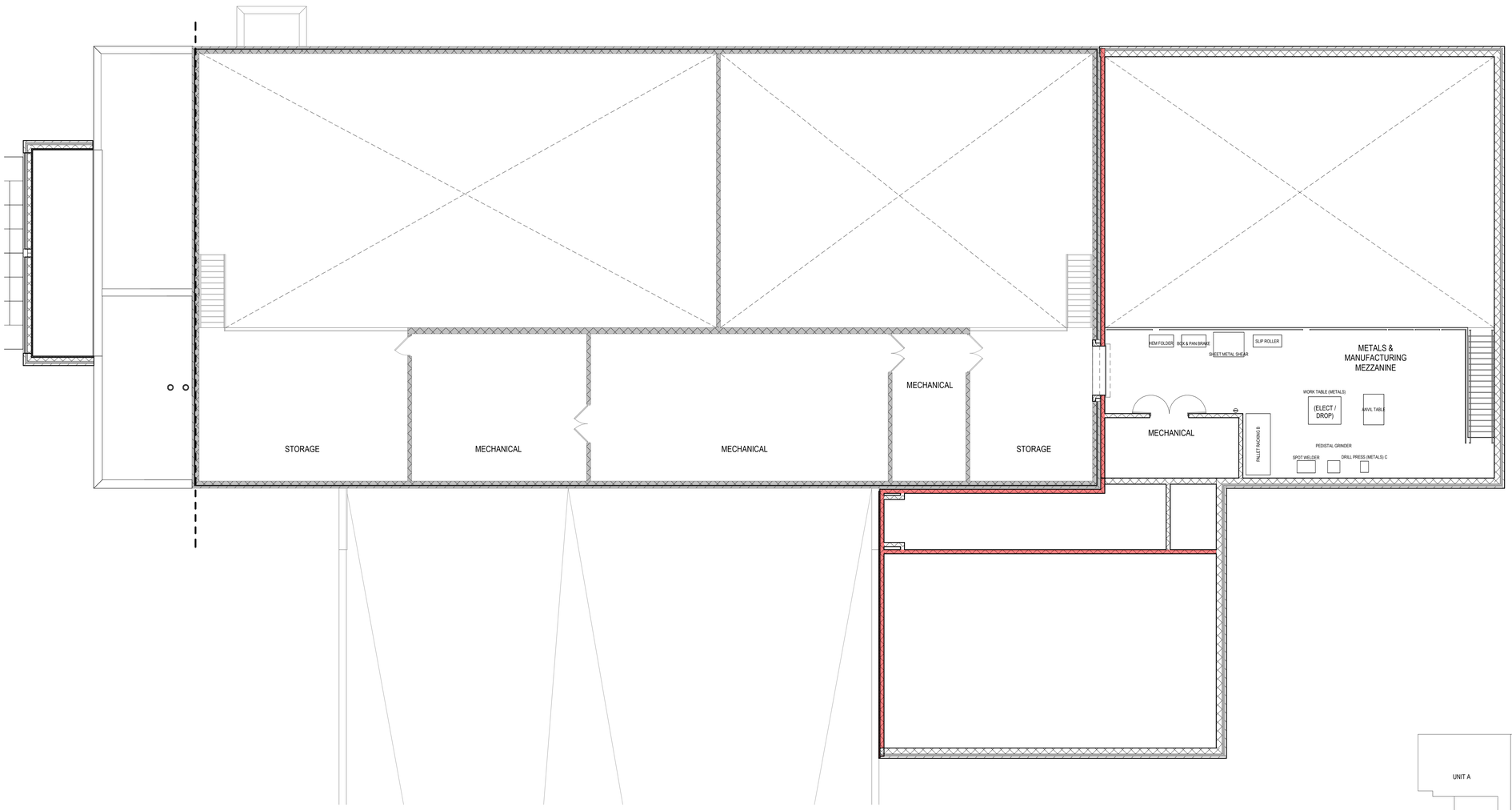
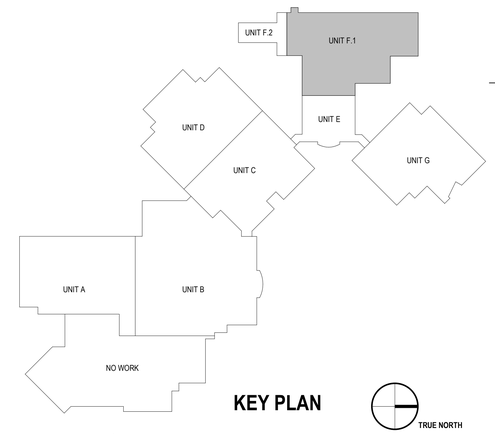


UNIT F - MEZZANINE EQUIPMENT PLAN



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Sheet Title:
UNIT F- MEZZANINE EQUIPMENT PLAN

Sheet Number:
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EQUIPMENT LIST - WOODS

Type	Electrical Load	Air Load	Manufacturer	Model	Comments
EXISTING					
CNC (EXISTING)	220V / 50-60Hz / 10A	MIN 300 CFM	POWERMATIC	PM-2x4SP	NEEDS TO BE FIXED, MIGHT BE REPLACED - CONF. LOCATION
WOOD LATHE	220V 1Ph, 60Hz		GRIZZLY	G0766	
JOINTER	220V, 20A, 3Ph		DELTA/ROCKWELL		
BAND SAW A	110V, 9A	-	CENTRAL MACHINERY	T32208	
TABLE SAW A	220V, 13A, 1Ph, 60Hz		SAWSTOP	PCS31230	
MITER SAW SLIDING	120V / 60Hz / 15A		MAKITA	LS1019L	
DISC/DISC SANDER	110V / 60Hz		SHOP FOX	W1712	
DRILL PRESS (WOODS) B	110V		POWERMATIC	PM9-1792800B	
BAND SAW B	110V, 9A, 1Ph		DELTA ROCKWELL	62-142	
MITER SAW STATIONARY	120V / 60Hz / 15A		DEWALT	DWS715	
ROUTER TABLE A	120V, 60A, 60Hz		SKIL	SRT1039	
ROUTER TABLE A	120V, 60A, 60Hz		SKIL	SRT1039	
TABLE SAW B	110V, 14A , 1Ph		SAWSTOP	CNC175	
WOOD PLANER (SMALL)	110V	N/A	DEWALT		
PANEL SAW	110V	N/A	SAFETY SPEED	6480-20C	
SPINDLE SANDER	120V, 20A		MAX		
LASER ENGRAVER	110V	BOFA	UNIVERSAL	VLS 660	
BAND SAW C	110V, 14A, 1Ph		LAGUNA	MBAND 1412-175	
WORK TABLE (WOODS)	N/A	N/A			
WORK TABLE (WOODS)	N/A	N/A			
WORK TABLE (WOODS)	N/A	N/A			
WORK TABLE (WOODS)	N/A	N/A			
CLAMP RACK	N/A	N/A			
GLUE TABLE	N/A	N/A			
SAFTEY GLASSES	N/A	N/A	UNKNOWN		
LOCKERS	N/A	N/A	UNKNOWN		
BOFA EXAUST	115V	BOFA	BOFA	AD1000 IQ	
SAFTEY GLASSES	N/A	N/A	UNKNOWN		
FUTURE					
SANDER	230V, 1Ps	N/A	TIMESAVER SPEED SANDER	S311-13-1S	
EDGE SANDER	110V / 220V	N/A	GRIZZLY	G1140	
NEW					
WOOD PLANER	TEFC, 5HP, 1Ph, 230V	N/A	POWERMATIC	209HH	
WORK TABLE (WOODS)	N/A	N/A			
WORK TABLE (WOODS)	N/A	N/A			
DRILL PRESS (WOODS) B	110V		POWERMATIC	PM9-1792800B	
PALLET RACKING	N/A	N/A			
PALLET RACKING	N/A	N/A			
ROUTER TABLE B	110V	N/A	GRIZZLY	T28780	
ROUTER TABLE B	110V	N/A	GRIZZLY	T28780	
MITER SAW PORTABLE	110V	N/A	DEWALT	DWS779	
POCKET HOLE	110V	N/A	CASTLE	TSM-12	
PALLET RACKING	N/A	N/A			
PALLET RACKING	N/A	N/A			
STUDENT LOCKER	N/A	N/A	MIDWEST TECHNOLOGY PRODUCTS	MONTISA LEARNING	
STUDENT LOCKER	N/A	N/A	MIDWEST TECHNOLOGY PRODUCTS	MONTISA LEARNING	
STUDENT LOCKER	N/A	N/A	MIDWEST TECHNOLOGY PRODUCTS	MONTISA LEARNING	
STUDENT LOCKER	N/A	N/A	MIDWEST TECHNOLOGY PRODUCTS	MONTISA LEARNING	
STUDENT LOCKER	N/A	N/A	MIDWEST TECHNOLOGY PRODUCTS	MONTISA LEARNING	

EQUIPMENT LIST - AUTOS

Type	Electrical Load	Air Load	Manufacturer	Model	Comments
EXISTING					
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
ENGINE ON STAND	N/A	N/A	N/A	N/A	
HYDRAULIC PRESS	N/A	N/A	CENTRAL MACHINES 352351803	352351803	
NEW					
BREAK LATHE A	115/230 V, 15/7.5amp, 50/60 Hz, 1ph	N/A	HUNTER	BL SERIES BENCH LATHE	
SURFACE-MOUNT SCISSOR LIFT RACK	208-230 VAC, SINGLE PHASE, 26 amp	130-150 PSI	HUNTER	WA674	
TIRE ALIGNMENT	208-230 VAC, SINGLE PHASE, 26 amp	130-150 PSI	HUNTER	WA674	
TIRE BALANCER	196-253V, 10 amp, 50/60 Hz		HUNTER	ROADFORCE ELITE	
TIRE BALANCER	196-253V, 10 amp, 50/60 Hz		HUNTER	ROADFORCE ELITE	
TIRE CHANGER B	208-230 VAC, 60Hz, 14A, 1 Ph		HUNTER	MAVERICK ELITE	
TIRE CHANGER B	208-230 VAC, 60Hz, 14A, 1 Ph		HUNTER	MAVERICK ELITE	
TOOL CABINET	N/A	N/A	1 U.S. GENERAL	ROLL CAB SERIES 3	
TOOL CABINET	N/A	N/A	1 U.S. GENERAL	ROLL CAB SERIES 3	
TOOL CABINET	N/A	N/A	1 U.S. GENERAL	ROLL CAB SERIES 3	
TOOL CABINET	N/A	N/A	1 U.S. GENERAL	ROLL CAB SERIES 3	
TWO POST LIFT C	208-230V, 60Hz, 1Ph		CHALLENGER	VEL10 VERSYMMETRIC	
TWO POST LIFT C	208-230V, 60Hz, 1Ph		CHALLENGER	VEL10 VERSYMMETRIC	

EQUIPMENT LIST - METALS & MANUFACTURING

Type	Electrical Load	Air Load	Manufacturer	Model	Comments
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
EXISTING					
LATHE	208V / 3Ph / 44A / 60Hz - SECONDARY 110V	CONF.	TRAK MACHINE	TRAK 1630RX	DATA
WORK TABLE (METALS)	N/A	N/A			
WORK TABLE (METALS)	N/A	N/A			
WORK TABLE (METALS)	N/A	N/A			
STORAGE LOCKER	N/A	N/A	N/A	N/A	
STORAGE LOCKER	N/A	N/A	N/A	N/A	
STORAGE LOCKER	N/A	N/A	N/A	N/A	
STORAGE LOCKER	N/A	N/A	N/A	N/A	
WELDER A	230V / 1Ph	CONF.	MILLER	SPECTRUM 625	
CNC PLASMA	115V / 15A	CONF.	SHOPSABRE	SIDEKICK 4 PLASMA SYSTEM	
LATHE B	220V / 1Ph		GRIZZLY	G0750G	
DRILL PRESS (METALS) C	110V		POWERMATIC	PM9-1792800B	
COLD CUT SAW	120V / 15A		EVOSAW	380	
CHOP SAW	120V		MAKITA	LW1401	
METALS RACKING	N/A	N/A			
WELDER C	220V		MILLER	212 AUTOSET	
HYDROLIC SHEAR	120V		NATIONAL	NHS210	
ANVIL TABLE	N/A	N/A			
SHEET METAL SHEAR	N/A	N/A	PEXTO	--	
BOX & PAN BRAKE	N/A	N/A	PEXTO	173	
SPOT WELDER	230V		MILLER	HG-1	
PEDISTAL GRINDER	115V / 230V		DAYTON	38UK60	
PEDISTAL GRINDER	115V / 230V		DAYTON	38UK60	
FUTURE					
FIBER LASER	CONF.	CONF.	SHOPSABRE	FIBERSABRE 408	Wire/run duct and air for this machine. This is a future machine we would purchase to replace the CNC Plasma
CNC MILL C	115V / 15A	CONF.	TORMACH	PCNC 770M	
CNC LATHE	230V - SECONDARY 115V	CONF.	TORMACH	15L SLANT PRO	
NEW					
CMC MILL	208V / 3Ph / 68A / 60Hz - SECONDARY POWER 110V	CONF.	SOUTHWEST INDUSTRIES / TRAK MACHINE	TRAK TMC5	
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
LATHE	208V / 3Ph / 44A / 60Hz - SECONDARY 110V	CONF.	TRAK MACHINE	TRAK 1630RX	DATA
LATHE	208V / 3Ph / 44A / 60Hz - SECONDARY 110V	CONF.	TRAK MACHINE	TRAK 1630RX	DATA
LATHE	208V / 3Ph / 44A / 60Hz - SECONDARY 110V	CONF.	TRAK MACHINE	TRAK 1630RX	DATA
KNEE MILL	208V / 3Ph - SECONDARY 110V	CONF.	SOUTHWEST INDUSTRIES		
KNEE MILL	208V / 3Ph - SECONDARY 110V	CONF.	SOUTHWEST INDUSTRIES		
KNEE MILL	208V / 3Ph - SECONDARY 110V	CONF.	SOUTHWEST INDUSTRIES		
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
WELDER B	240V / 1Ph		MILLER	AC/DC 220	Outside welders mounted to walls - Need two gas lines w/ regulators for each (75% Argon/25% CO2 and 100% Argon)
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
FUME EXTRACTION	N/A	CONF.	LINCOLN ELECTRIC	PRISM EXTRACTOR ARM	OPTION 3 IN GOOGLE SHEET
WORK TABLE (METALS)	N/A	N/A			
WORK TABLE (METALS)	N/A	N/A			
ELECTRODE OVEN	230V / 1Ph	CONF.	DRYROD	1205520	Place plug and air drop in this location for plasma cutting
CNC MILL B	115V / 15A		TORMACH	PCNC440	
CNC MILL B	115V / 15A		TORMACH	PCNC440	
HYDROLIC IRONWORKER	120V	-	METAL PRO	MP4500FS	
BAND SAW HYDROLIC	115V / 15A		TORMACH	AF50+	
ROBOTIC PRO	120V		TORMACH	xsTECH PRO WITH ROBOT	
PALLET RACKING B	N/A	N/A			
WORK TABLE (METALS)	N/A	N/A			
DRILL PRESS (METALS) C	110V		POWERMATIC	PM9-1792800B	
PALLET RACKING B	N/A	N/A			
SLIP ROLLER	N/A		BALEIGH	BA9-1007348	

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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EQUIPMENT SCHEDULE

Sheet Number:
A6.5

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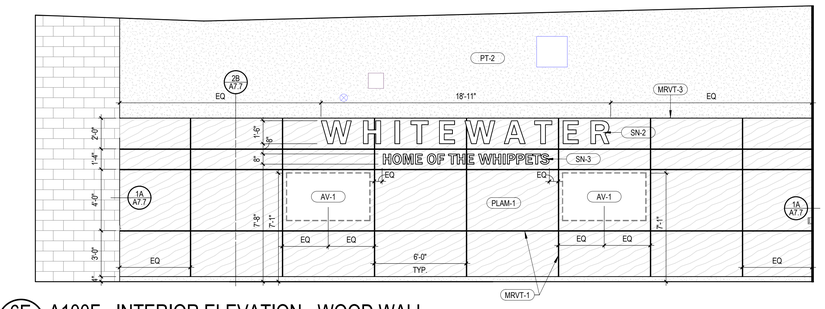
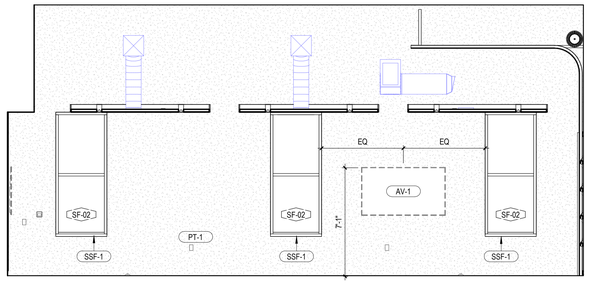


6E A100F - INTERIOR ELEVATION - WOOD WALL
A7.0 Scale: 1/4" = 1'-0"



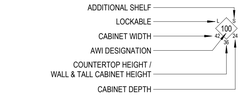
4E A100F - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"

KEYNOTE LEGEND

AV-1	75" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-2	60" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-3	55" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-5	INTERACTIVE DISPLAY MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-8	PROJECTION SCREEN - FURNISHED AND INSTALLED BY OWNER
BN-1A	WOOD BENCH - ACCESSIBLE
CBR-2	COUNTERTOP BRACKET (FLUSH MOUNT)
DC-1	DISPLAY CASE - RECESSED
DC-2	DISPLAY CASE - TWO SIDED
LKR-1	LOCKERS - KNOCK-DOWN
LKR-1A	LOCKERS - KNOCK-DOWN (ACCESSIBLE)
MRVT-1	MILLWORK REVEAL TRIM (BETWEEN PANELS)
MRVT-2	MILLWORK REVEAL TRIM (CORNER)
MRVT-3	MILLWORK REVEAL TRIM (EDGE)
PLAM-1	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PLAM-2	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PLAM-3	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PT-5	PAINT - SEE INTERIOR FINISH LEGEND
PT-6	PAINT - SEE INTERIOR FINISH LEGEND
SN-1	DIMENSIONAL LETTERS - CAST CHARACTERS
SN-2	DIMENSIONAL LETTERS - CAST CHARACTERS
SN-3	DIMENSIONAL LETTERS - CAST CHARACTERS
SSF-1	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
SSF-2	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR

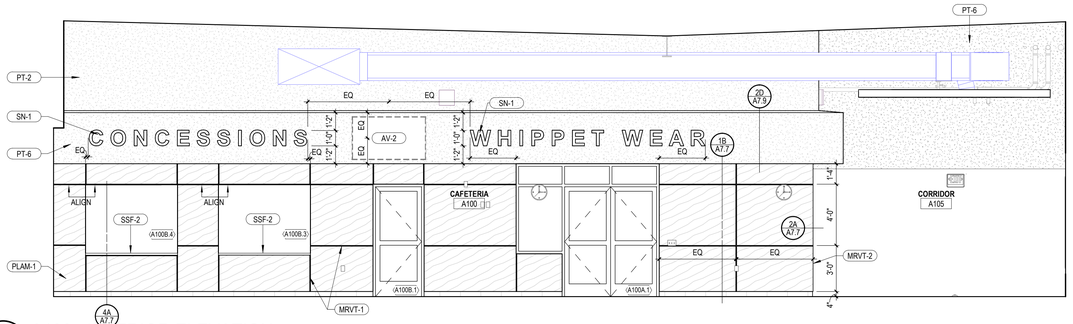
GENERAL MILLWORK NOTES

MILLWORK TAG LEGEND

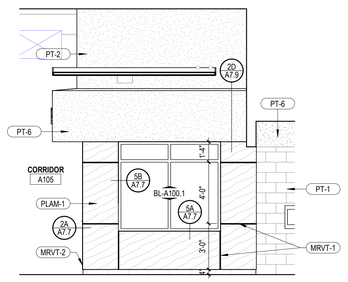


GENERAL MILLWORK NOTES:

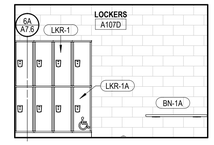
1. PROVIDE FIRE TREATED WOOD BLOCKING AT WALLS FOR SUPPORT OF WORK SURFACES, WALL CABINETS, BASE CABINETS, MOUNTING CLEATS AND ALL OTHER MILLWORK REQUIRING BLOCKING.
2. ALL BASE CABINETS ARE 24" DEEP (NOM) UNLESS NOTED OTHERWISE.
3. ALL WALL CABINETS ARE 15" DEEP (NOM) UNLESS NOTED OTHERWISE.
4. ALL BACKSPLASHES & SIDESPLASHES ARE 4" HIGH. UNLESS NOTED OTHERWISE.
5. ALL TOE SPACES TO BE 4" HIGH & 3" DEEP UNLESS NOTED OTHERWISE.
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OF MILLWORK.
7. ALL CABINET ENDS & ALL EXPOSED SURFACES TO BE FINISHED WITH PLASTIC LAMINATE.
8. SCHEDULED BASE TO BE APPLIED TO ALL EXPOSED AREAS OF MILLWORK.
9. ALL 6 SURFACES OF SHELVES TO BE FINISHED.
10. ALL WORK SURFACES THAT MEET A WALL SHALL BE ATTACHED WITH 1"x2" WOODEN CLEATS ATTACHED TO WALL BLOCKING UNLESS OTHERWISE NOTED.
11. ALL BASE CABINETS & WALL CABINETS SHALL RECEIVE A 2" FILLER (F) WHEN MEETING WALLS UNLESS OTHERWISE NOTED.
12. ALL WALL AND BASE CABINET CORNER CONDITIONS WILL RECEIVE A FILLER (F) UNLESS OTHERWISE NOTED.
13. ALL WALL CABINET CORNER CONDITIONS REQUIRE UNDER CABINET AND TOP OF CABINET FILLERS (F).
14. COUNTERTOP EDGE STYLE TO BE WATERALL UNLESS OTHERWISE NOTED.
15. DOOR AND DRAWER-FRONT STYLE AT RECEPTION DESKS TO BE FLUSH OVERLAY. ALL OTHER LOCATIONS TO BE REVEAL OVERLAY UNLESS NOTED OTHERWISE.
16. ALL DOORS AND DRAWERS SHOWING PULLS TO RECEIVE DP-1 UNLESS OTHERWISED NOTED. SEE INTERIOR FINISH LEGEND.



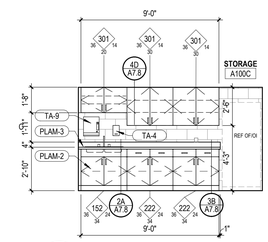
6D A100 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



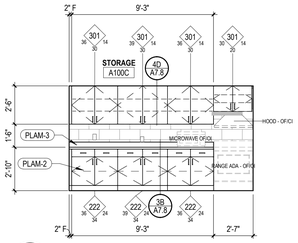
4D A100 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



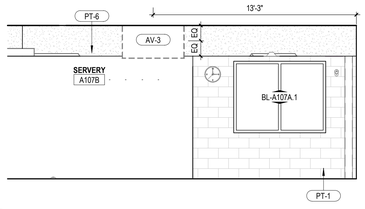
2D A107D - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



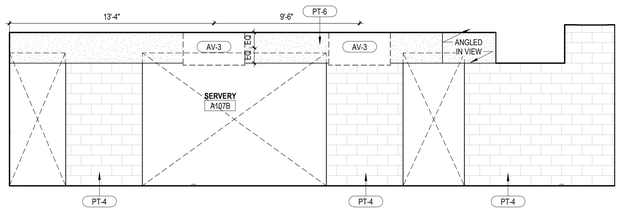
6C A100C - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



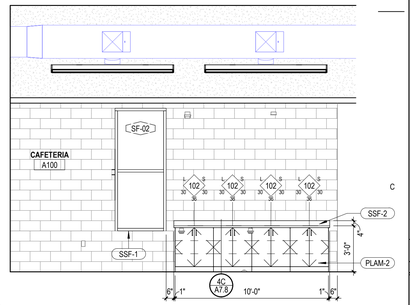
5C A100C - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



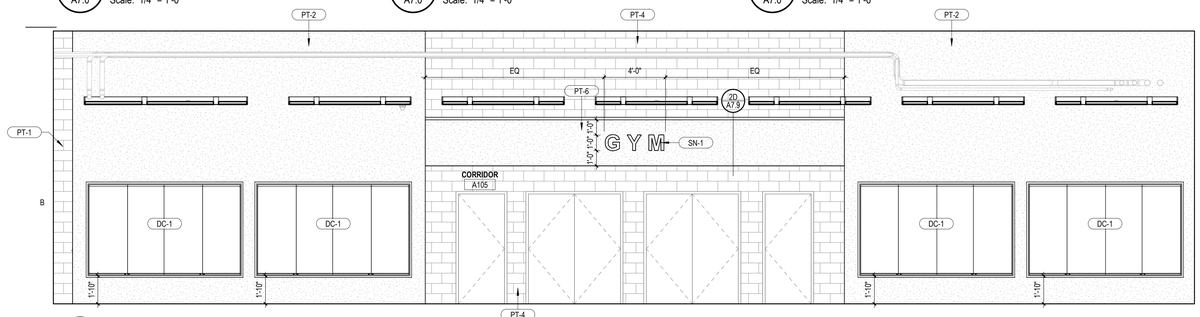
4C A107B - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



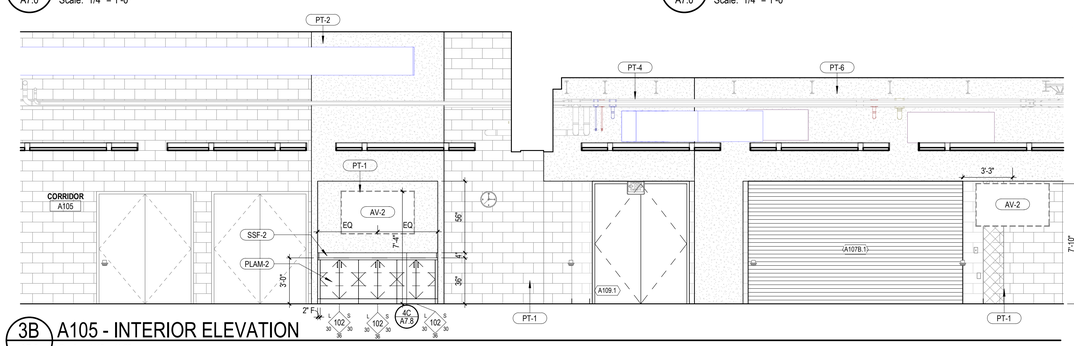
3C A107B - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



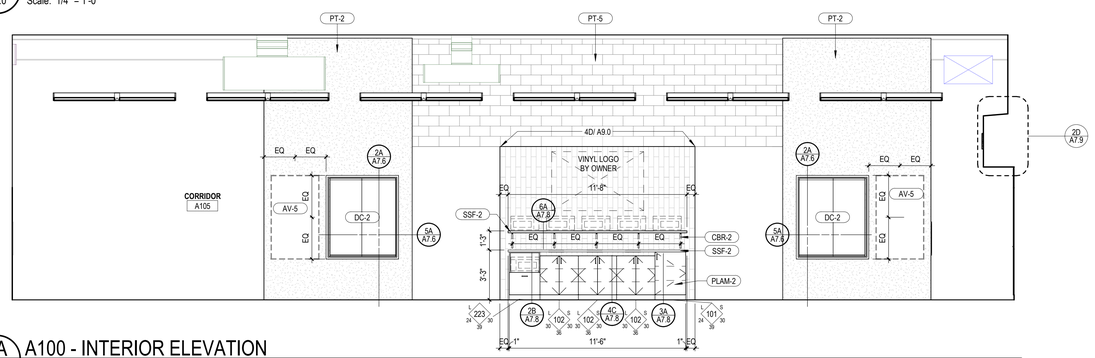
1C A100 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



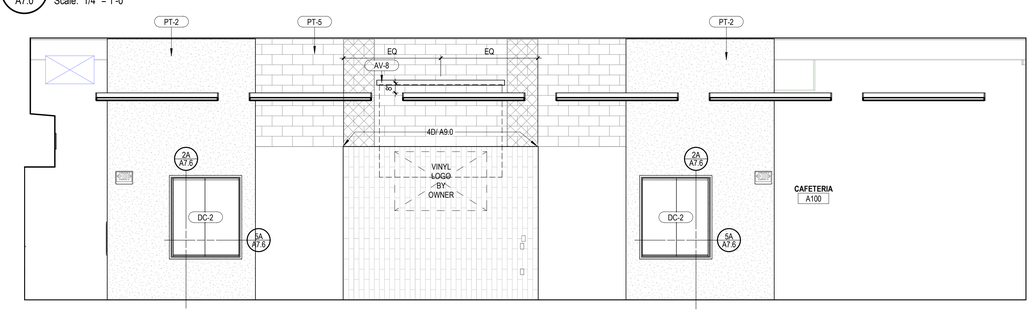
6B A105 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



3B A105 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



6A A100 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"



3A A100 - INTERIOR ELEVATION
A7.0 Scale: 1/4" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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WHITEWATER, WI 53190

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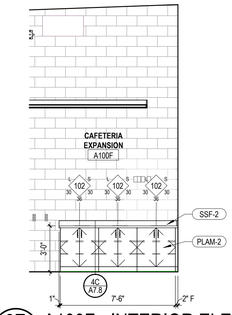
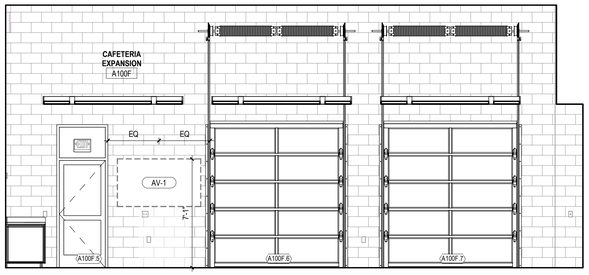
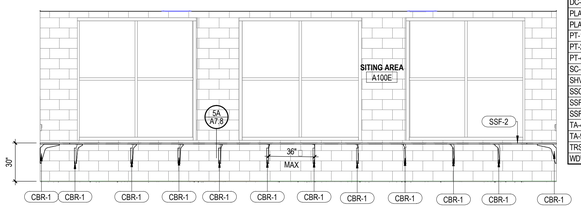


6E A100F - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



5E A100F - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



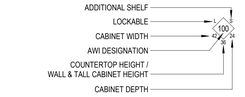
4E A100E - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

KEYNOTE LEGEND

AV-1	75" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-3	55" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-4	43" FLAT SCREEN MONITOR, WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
AV-6	DISPLAY CAMERA - FURNISHED AND INSTALLED BY OWNER
CBR-1	COUNTERTOP BRACKET (STANDARD)
CT-1	TILE - SEE INTERIOR FINISH LEGEND
DC-1	DISPLAY CASE - RECESSED
PLAM-2	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PLAM-3	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
SC-1	STEEL CASEWORK, PAINT PT-6
SHV-1	PLASTIC LAMINATE SHELVES, STANDARDS, AND BRACKETS
SSC-1	STAINLESS STEEL COUNTERTOP
SSF-1	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
SSF-2	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TRS-10	TRANSITION STRIP - SEE INTERIOR FINISH LEGEND
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND

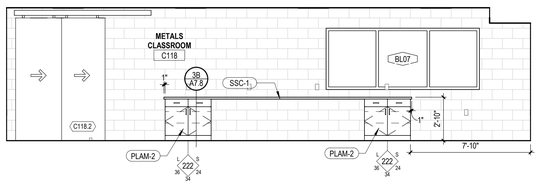
GENERAL MILLWORK NOTES

MILLWORK TAG LEGEND

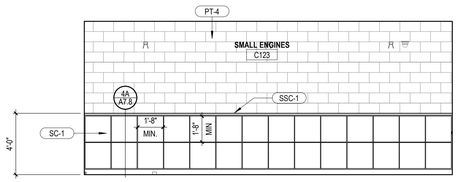


GENERAL MILLWORK NOTES:

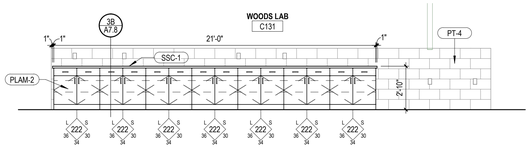
1. PROVIDE FIRE TREATED WOOD BLOCKING AT WALLS FOR SUPPORT OF WORK SURFACES, WALL CABINETS, BASE CABINETS, MOUNTING CLEATS AND ALL OTHER MILLWORK REQUIRING BLOCKING.
2. ALL BASE CABINETS ARE 24" DEEP (NOM) UNLESS NOTED OTHERWISE.
3. ALL WALL CABINETS ARE 15" DEEP (NOM) UNLESS NOTED OTHERWISE.
4. ALL BACKSPLASHES & SIDESPLASHES ARE 4" HIGH. UNLESS NOTED OTHERWISE.
5. ALL TOE SPACES TO BE 4" HIGH & 3" DEEP UNLESS NOTED OTHERWISE.
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OF MILLWORK.
7. ALL CABINET ENDS & ALL EXPOSED SURFACES TO BE FINISHED WITH PLASTIC LAMINATE.
8. SCHEDULED BASE TO BE APPLIED TO ALL EXPOSED AREAS OF MILLWORK.
9. ALL 6 SURFACES OF SHELVES TO BE FINISHED.
10. ALL WORK SURFACES THAT MEET A WALL SHALL BE ATTACHED WITH 1"x2" WOODEN CLEATS ATTACHED TO WALL BLOCKING UNLESS OTHERWISE NOTED.
11. ALL BASE CABINETS & WALL CABINETS SHALL RECEIVE A 2" FILLER (F) WHEN MEETING WALLS UNLESS OTHERWISE NOTED.
12. ALL WALL AND BASE CABINET CORNER CONDITIONS WILL RECEIVE A FILLER (F) UNLESS OTHERWISE NOTED.
13. ALL WALL CABINET CORNER CONDITIONS REQUIRE UNDER CABINET AND TOP OF CABINET FILLERS (F).
14. COUNTERTOP EDGE STYLE TO BE WATERALL UNLESS OTHERWISE NOTED.
15. DOOR AND DRAWER-FRONT STYLE AT RECEPTION DESKS TO BE FLUSH OVERLAY. ALL OTHER LOCATIONS TO BE REVEAL OVERLAY UNLESS NOTED OTHERWISE.
16. ALL DOORS AND DRAWERS SHOWING PULLS TO RECEIVE DP-1 UNLESS OTHERWISED NOTED. SEE INTERIOR FINISH LEGEND.



6D C118 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



4D C123 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



2D C131 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

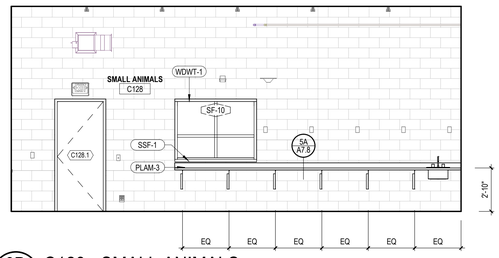
6C C109A - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

5C C109 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

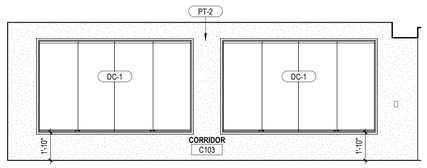
3C C109 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

2C C109 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

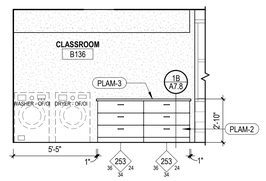
1C C109 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



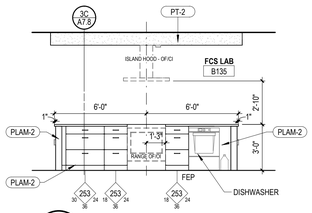
6B C128 - SMALL ANIMALS
A7.1 Scale: 1/4" = 1'-0"



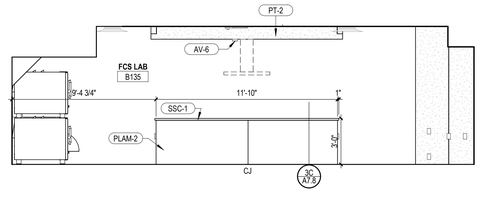
4B C103- CORRIDOR
A7.1 Scale: 1/4" = 1'-0"



3B B136 - FCS LAB - 6
A7.1 Scale: 1/4" = 1'-0"



2B B135 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"



1B B135 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

6A B135 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

3A B135 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

2A B135 - INTERIOR ELEVATION
A7.1 Scale: 1/4" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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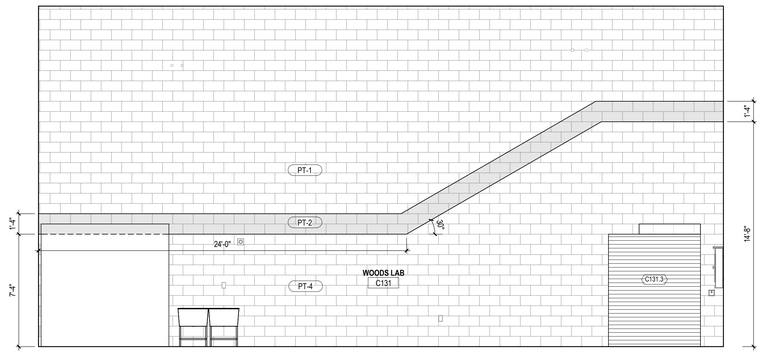
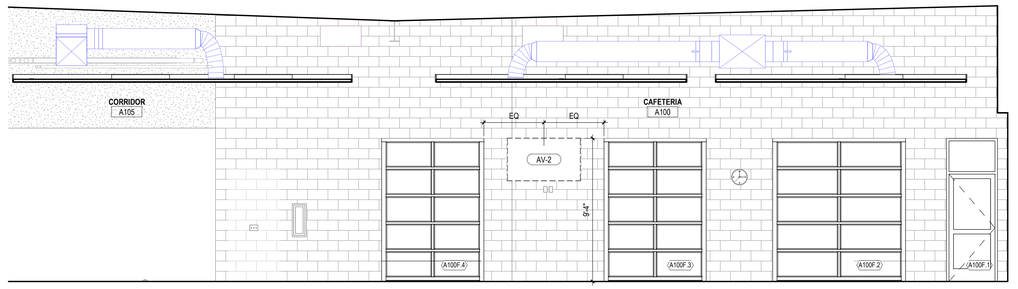
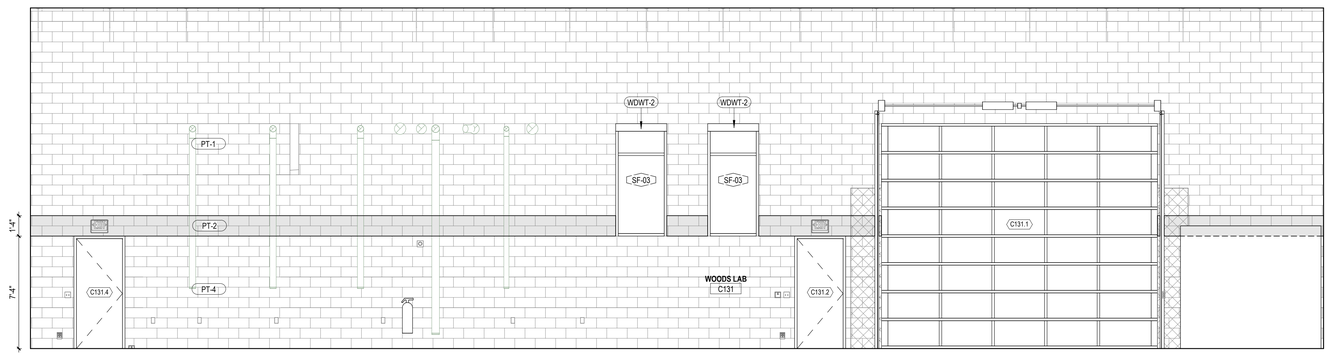


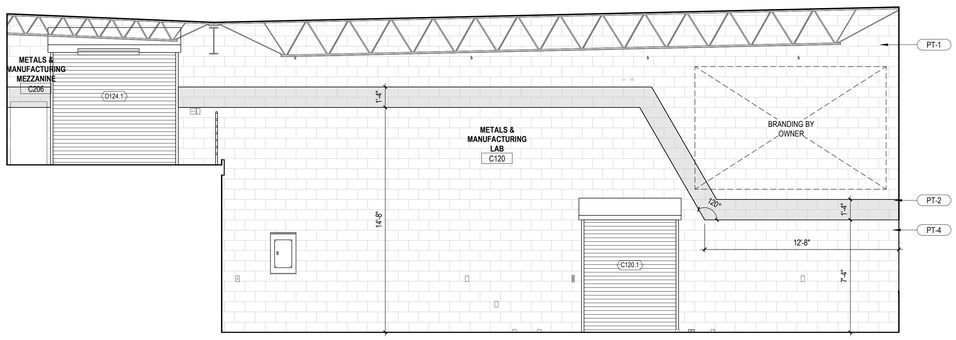
6E C131 - WOODS LAB EAST
A7.2 Scale: 1/4" = 1'-0"



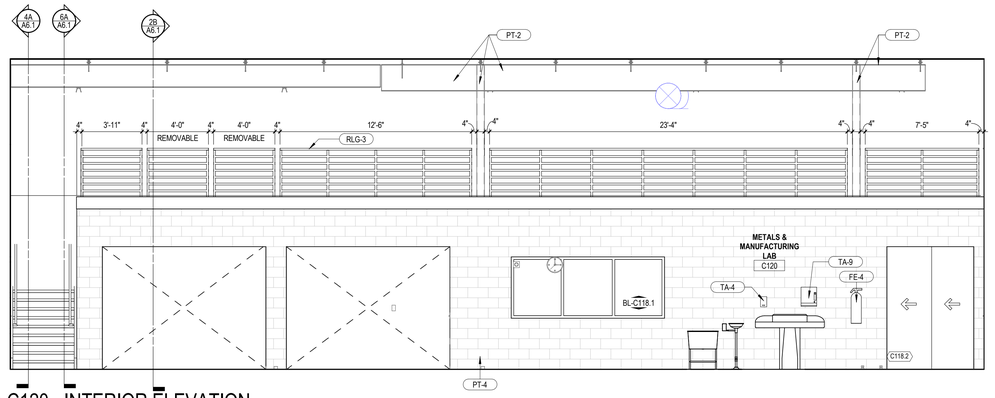
3E A100 - INTERIOR ELEVATION
A7.2 Scale: 1/4" = 1'-0"



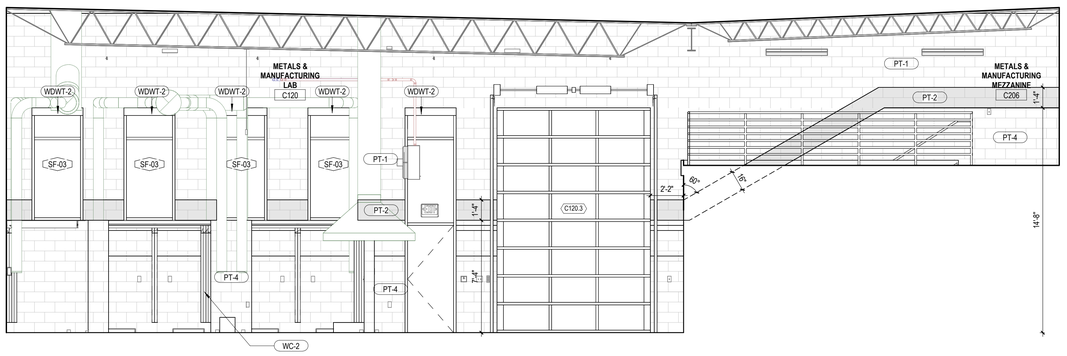
6D C131 - WOODS LAB NORTH
A7.2 Scale: 1/4" = 1'-0"



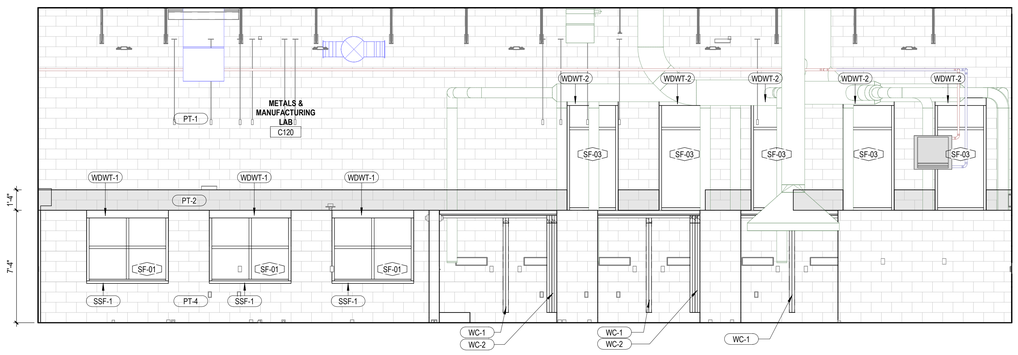
6B C120 - INTERIOR ELEVATION
A7.2 Scale: 1/4" = 1'-0"



3B C120 - INTERIOR ELEVATION
A7.2 Scale: 1/4" = 1'-0"



6A C120 - INTERIOR ELEVATION
A7.2 Scale: 1/4" = 1'-0"



3A C120 - INTERIOR ELEVATION
A7.2 Scale: 1/4" = 1'-0"

GENERAL MILLWORK NOTES

MILLWORK TAG LEGEND



GENERAL MILLWORK NOTES:

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KEYNOTE LEGEND

AV-2	60" FLAT SCREEN MONITOR. WALL MOUNTED - FURNISHED AND INSTALLED BY OWNER
FE-4	FIRE EXTINGUISHER AND BRACKET
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
RLG-3	PIPE AND TUBE METAL HANDRAIL - MEZZANINE
SSF-1	SOLID SURFACE - SEE INTERIOR FINISH LEGEND
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
WC-1	WELDING CURTAIN
WC-2	WELDING STRIP CURTAIN
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADE) - SEE INTERIOR FINISH LEGEND
WDWT-2	WINDOW TREATMENT (MOTORIZED ROLLER SHADE) - SEE INTERIOR FINISH LEGEND

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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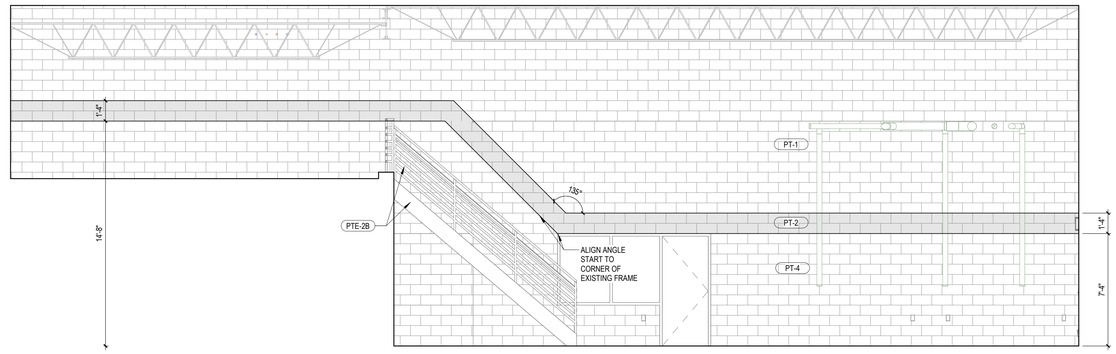
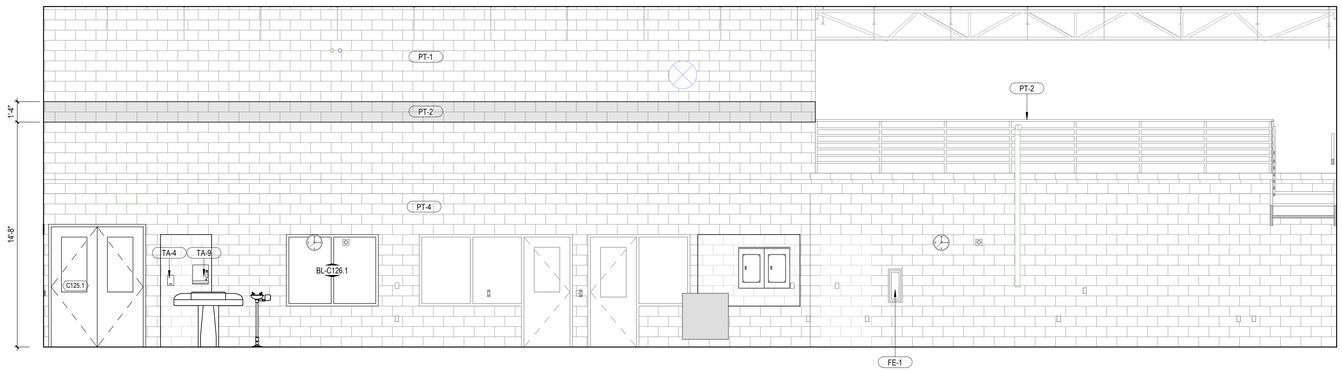
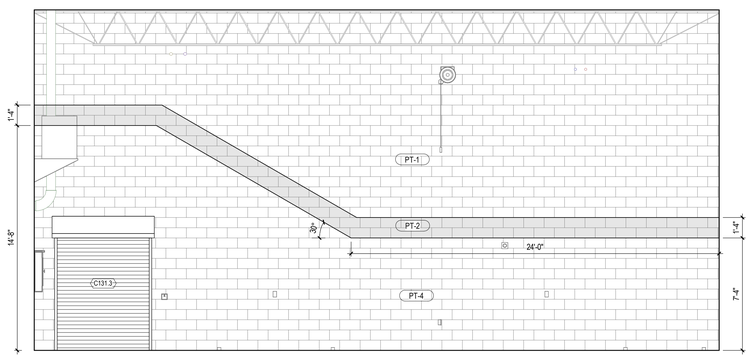


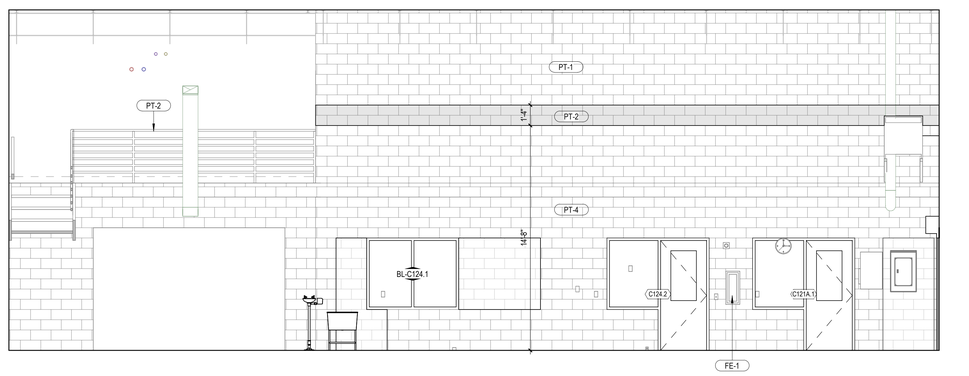
6E C131 - WOODS LAB WEST
A7.3 Scale: 1/4" = 1'-0"



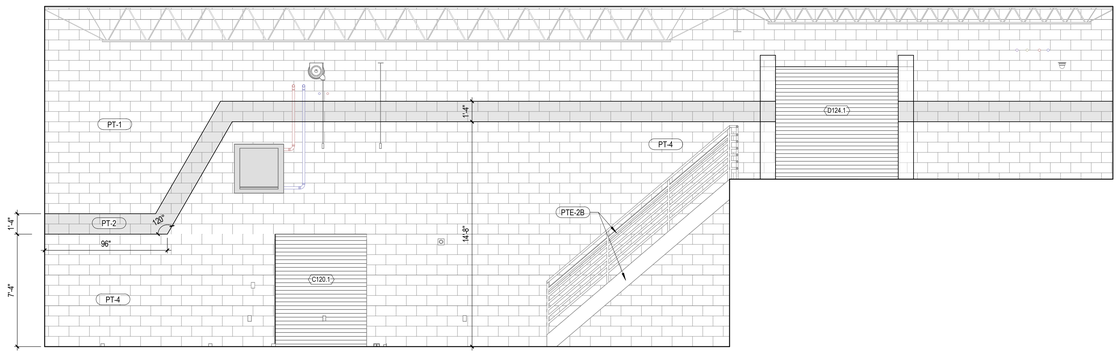
6D C131 - WOODS LAB SOUTH
A7.3 Scale: 1/4" = 1'-0"



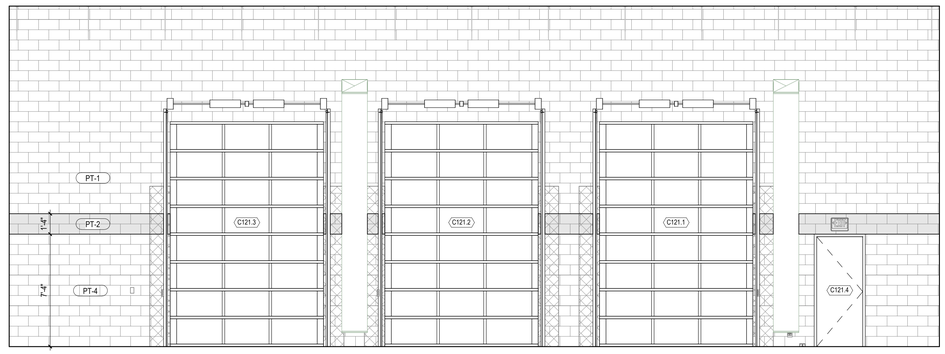
6C C121 - AUTOS LAB WEST
A7.3 Scale: 1/4" = 1'-0"



3C C121 - AUTOS LAB SOUTH
A7.3 Scale: 1/4" = 1'-0"



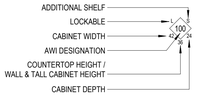
6A C121 - AUTOS LAB EAST
A7.3 Scale: 1/4" = 1'-0"



3A C121 - AUTOS LAB NORTH
A7.3 Scale: 1/4" = 1'-0"

GENERAL MILLWORK NOTES

MILLWORK TAG LEGEND



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KEYNOTE LEGEND

FE-1	FIRE EXTINGUISHER AND SEMI-RECESSED CABINET
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PTE-2B	PAINT EXISTING RAILING, STAIR STRINGER AND STAIR TREADS PT-2; PAINT VISION STRIP ON STAIR TREADS
TA-4	SOAP DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR
TA-9	PAPER TOWEL DISPENSER - FURNISHED BY OWNER / INSTALLED BY CONTRACTOR

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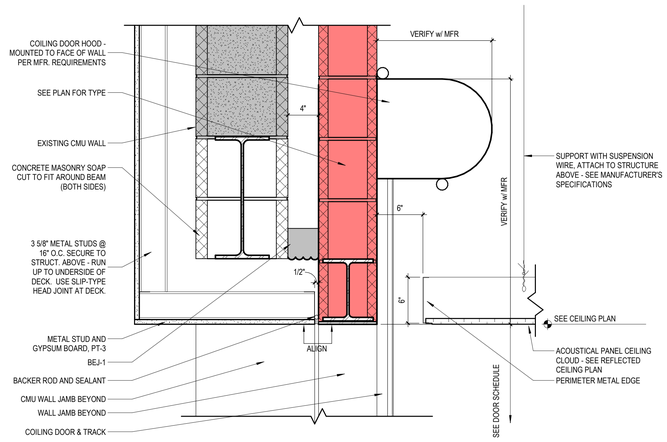
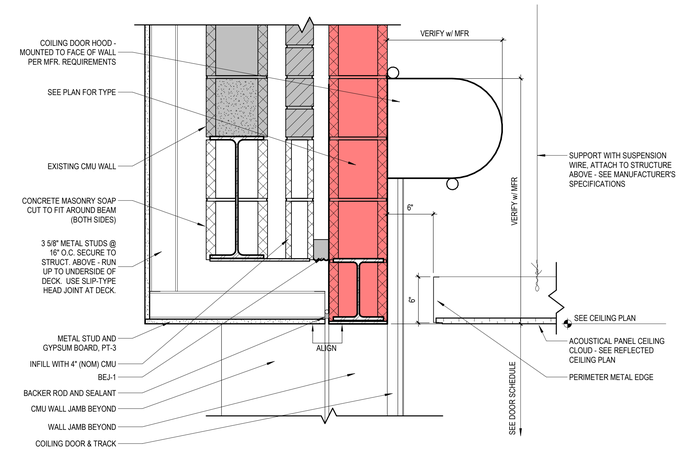
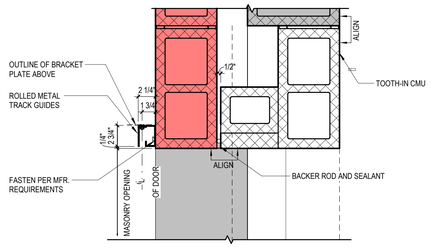
KEYNOTE LEGEND



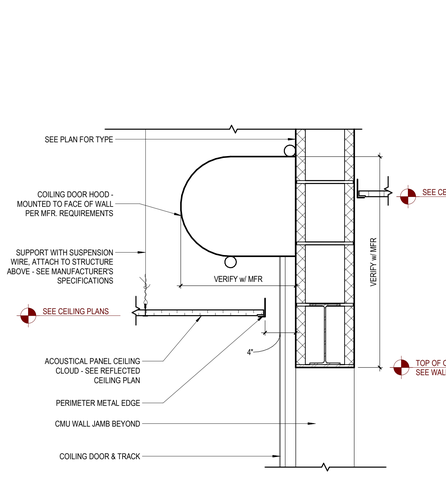
5D A7.4 COILING FIRE DOOR - HEAD/LINTEL
Scale: 1 1/2" = 1'-0"



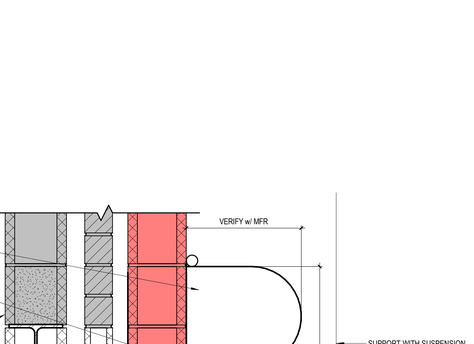
3D A7.4 COILING FIRE DOOR - HEAD
Scale: 1 1/2" = 1'-0"



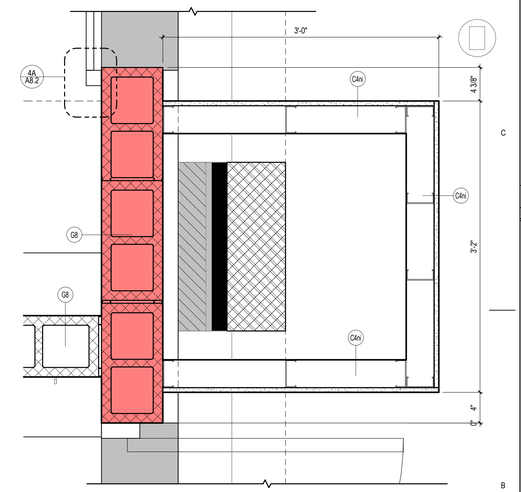
1D A7.4 JAMB DETAIL - FIRE SHUTTER
Scale: 1 1/2" = 1'-0"



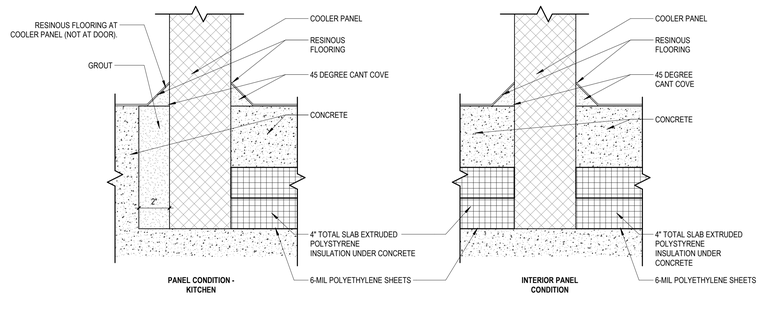
4B A7.4 COILING DOOR - HEAD - KITCHEN
Scale: 1 1/2" = 1'-0"



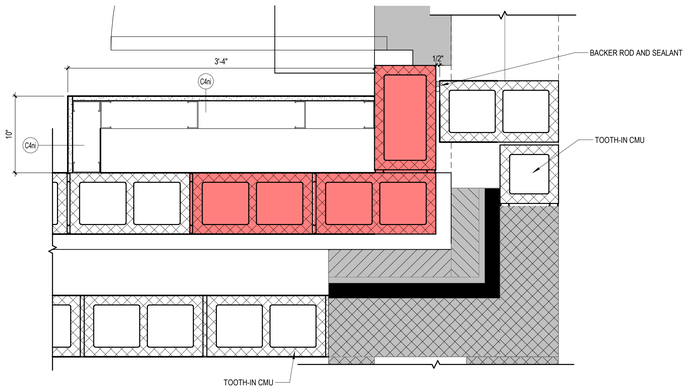
3B A7.4 HM DOOR HEAD - FIREWALL
Scale: 1 1/2" = 1'-0"



1B A7.4 PLAN VIEW - DOOR JAMB - FW
Scale: 1 1/2" = 1'-0"



4A A7.4 RESINOUS FLOORING AT COOLER PANELS
Scale: 3" = 1'-0"



2A A7.4 INTERIOR PLAN DETAIL - FW - DOOR
Scale: 1 1/2" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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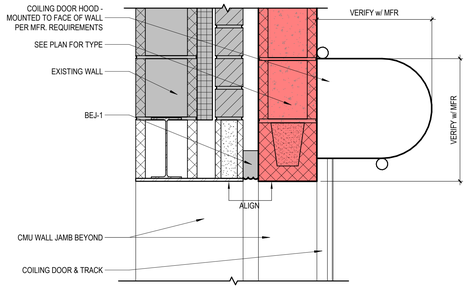
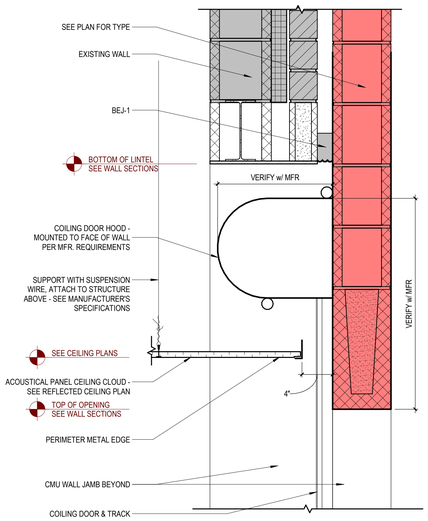
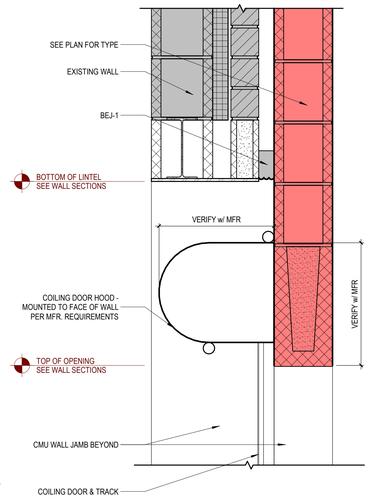
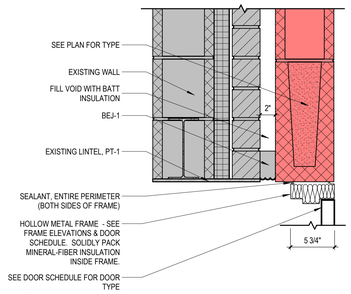
KEYNOTE LEGEND

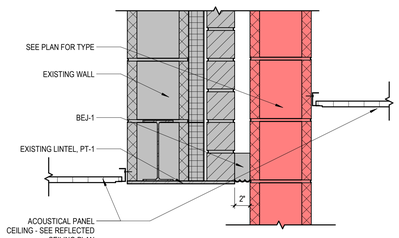




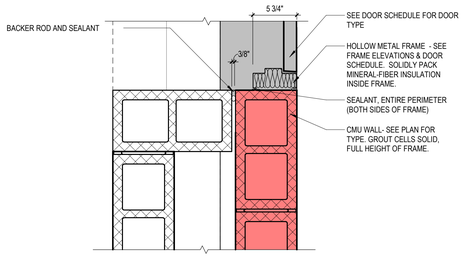




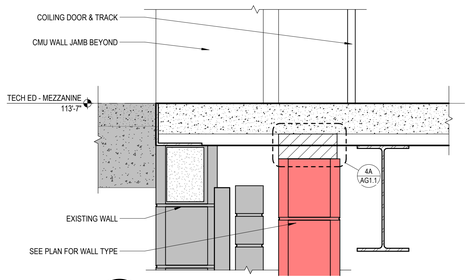
4C HM - DOOR HEAD - FW
A7.5 Scale: 1 1/2" = 1'-0"



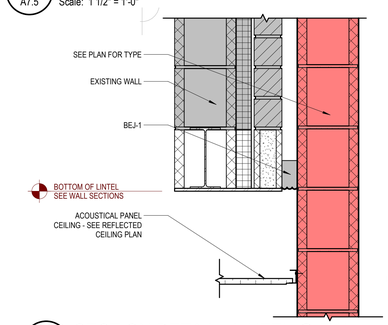
3C SECTION SECTION - CORRIDOR - FW
A7.5 Scale: 1 1/2" = 1'-0"



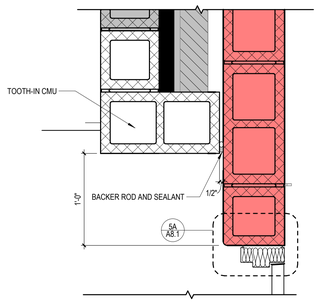
3B HM DOOR JAMB - FW
A7.5 Scale: 1 1/2" = 1'-0"

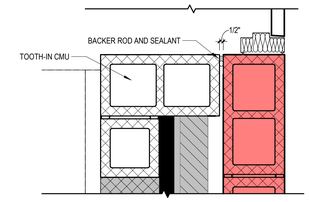


3A FIREWALL FLOOR DETAIL
A7.5 Scale: 1 1/2" = 1'-0"

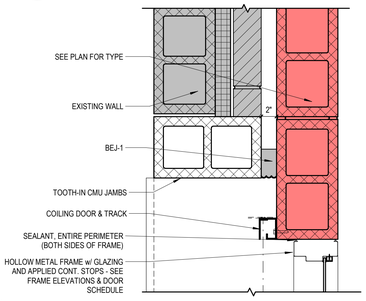


2C SECTION DETAIL - LINTEL @ FW
A7.5 Scale: 1 1/2" = 1'-0"

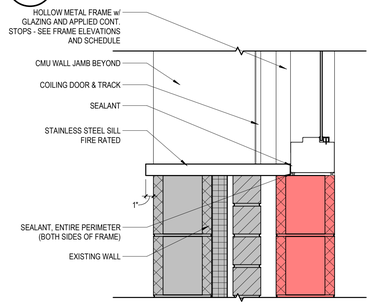




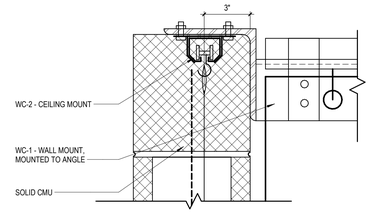
2A DOOR PLAN DETAIL - FIREWALL
A7.5 Scale: 1 1/2" = 1'-0"



1C COILING DOOR JAMB - FIREWALL
A7.5 Scale: 1 1/2" = 1'-0"



1B COILING DOOR SILL - FIREWALL
A7.5 Scale: 1 1/2" = 1'-0"



4A SECTION DETAIL - CURTAIN TRACK
A7.5 Scale: 3" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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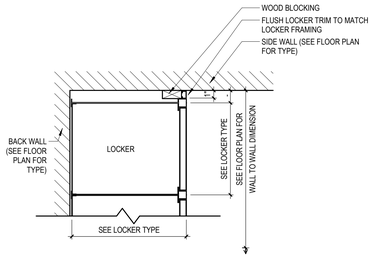
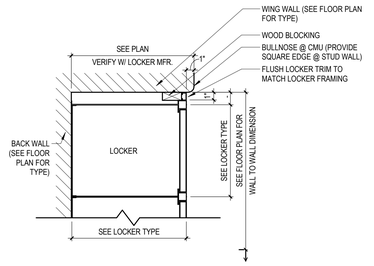
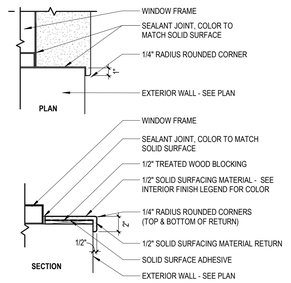
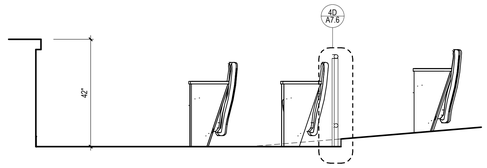




6D LOCKER TRIM
A7.6 Scale: 1 1/2" = 1'-0"



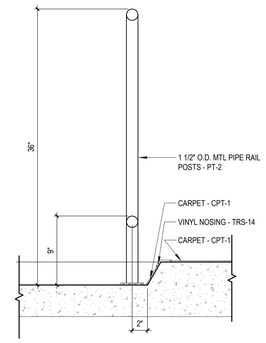
5E WINDOW STOOL
A7.6 Scale: 1 1/2" = 1'-0"

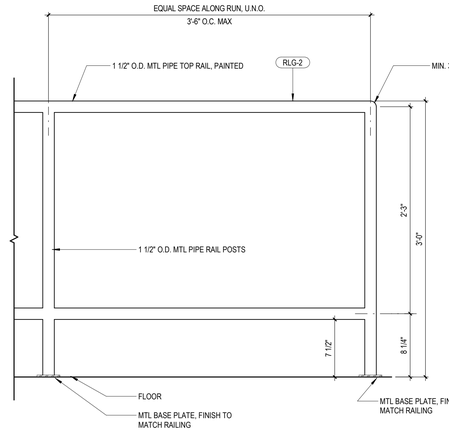


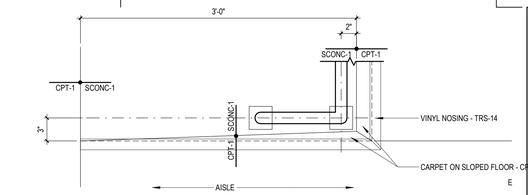
5D SECTION - AUDITORIUM AT BAND
A7.6 Scale: 1/2" = 1'-0"

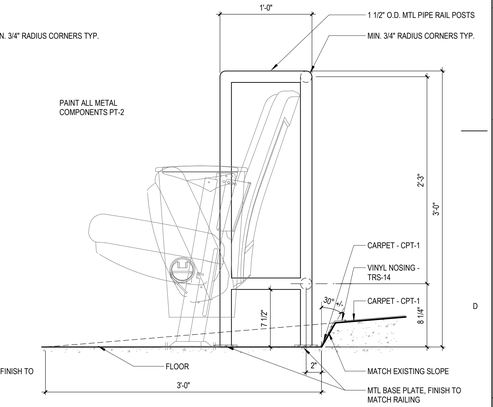
KEYNOTE LEGEND

RLG-2	PIPE AND TUBE METAL HANDRAIL - AUDITORIUM

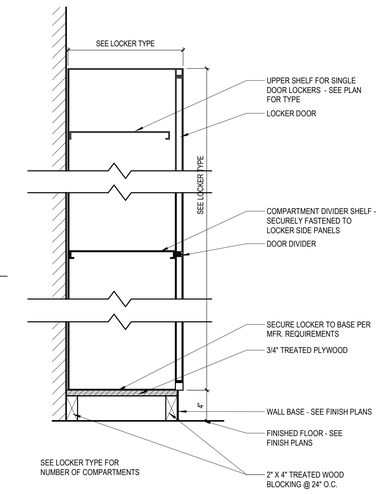




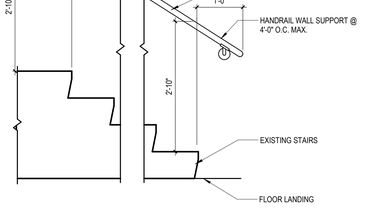




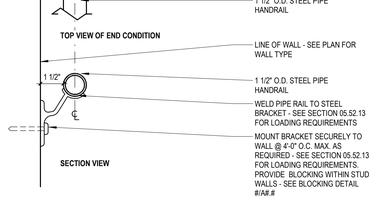
4D RAILING DETAIL - AUDITORIUM
A7.6 Scale: 1 1/2" = 1'-0"



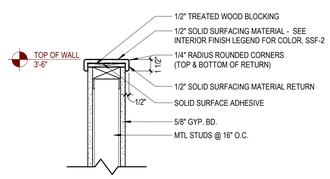
6B LOCKER SECTION
A7.6 Scale: 1 1/2" = 1'-0"



5B WALL MOUNTED HANDRAIL @ STAIR - RLG-1
A7.6 Scale: 3/4" = 1'-0"



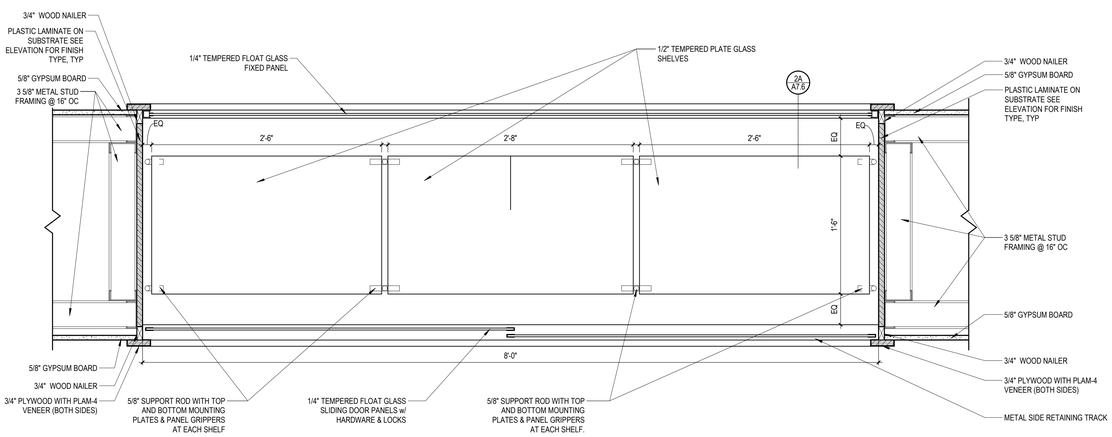
4B HANDRAIL - RLG-1
A7.6 Scale: 3" = 1'-0"



3B HALF STUD WALL DETAIL
A7.6 Scale: 1 1/2" = 1'-0"

2A TWO-SIDED DISPLAY CASE
A7.6 Scale: 1 1/2" = 1'-0"

6A LOCKER TYPE (LKR-1)
A7.6 Scale: 1/2" = 1'-0"



5A TWO-SIDED DISPLAY CASE - PLAN DETAIL
A7.6 Scale: 1 1/2" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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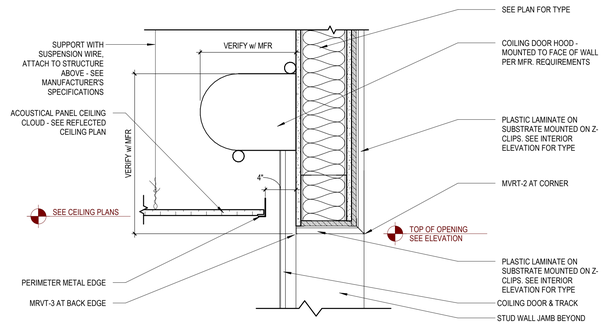
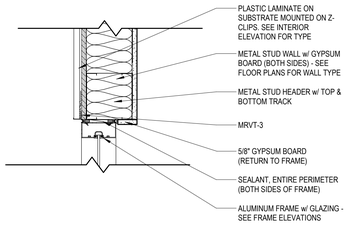
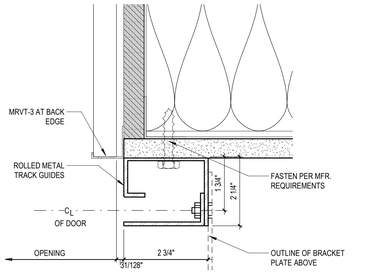


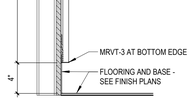
4D COILING COUNTER DOOR HEAD
A7.7 Scale: 1 1/2" = 1'-0"



5C INTERIOR STOREFRONT HEAD @ STUD WALL
A7.7 Scale: 1 1/2" = 1'-0"

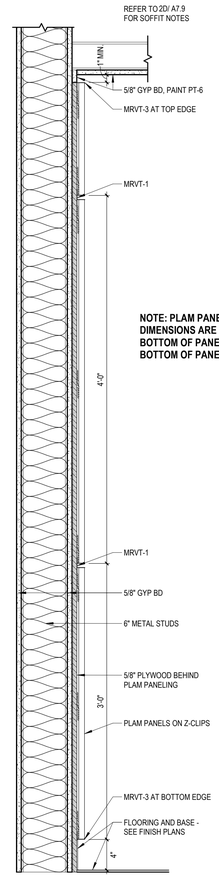


4C COILING DOOR TRACK JAMB
A7.7 Scale: 6" = 1'-0"



NOTE: PLAM PANEL DIMENSIONS ARE SHOWN BOTTOM OF PANEL TO BOTTOM OF PANEL

2B PLAM PANEL SECTION @ A100F
A7.7 Scale: 1 1/2" = 1'-0"



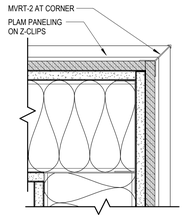
NOTE: PLAM PANEL DIMENSIONS ARE SHOWN BOTTOM OF PANEL TO BOTTOM OF PANEL

1B PLAM PANEL SECTION @ CONCESSIONS
A7.7 Scale: 1 1/2" = 1'-0"

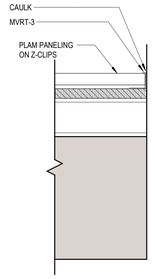
5B INTERIOR STOREFRONT JAMB @ STUD WALL
A7.7 Scale: 1 1/2" = 1'-0"

4A COILING COUNTER DOOR
A7.7 Scale: 3/4" = 1'-0"

5A INTERIOR STOREFRONT SILL @ STUD WALL
A7.7 Scale: 1 1/2" = 1'-0"



2A PLAM PANEL CORNER
A7.7 Scale: 3" = 1'-0"



1A PLAM PANEL END
A7.7 Scale: 3" = 1'-0"

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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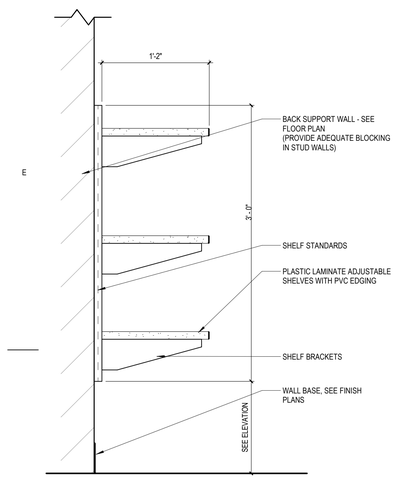
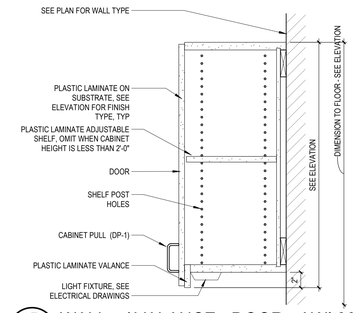
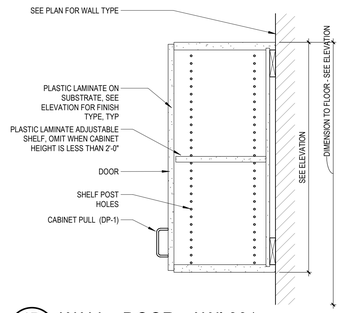


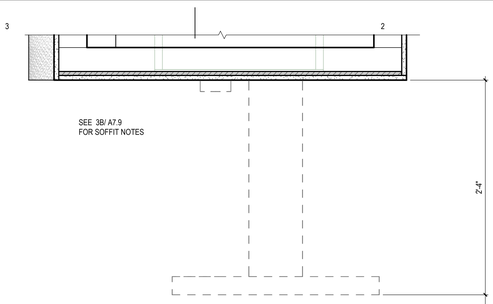
6D ADJUSTABLE SHELVES (SHV-1)
A7.8 Scale: 1 1/2" = 1'-0"



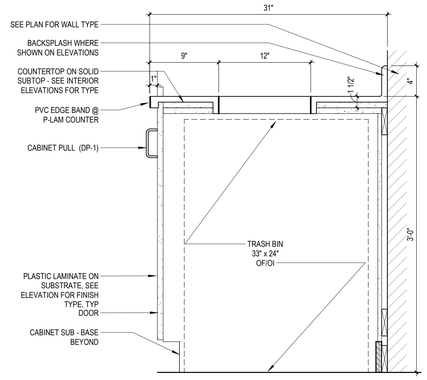
5D WALL w/ VALANCE - DOOR - AWI 302
A7.8 Scale: 1 1/2" = 1'-0"



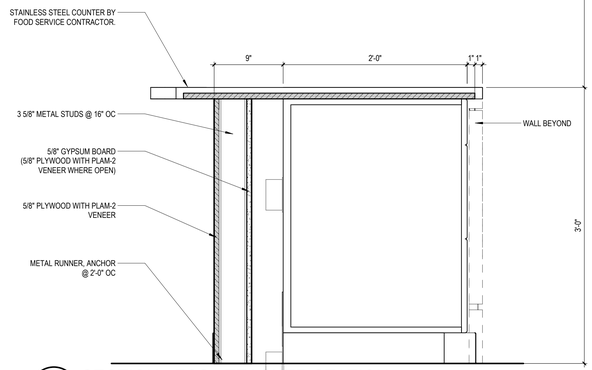
4D WALL - DOOR - AWI 301
A7.8 Scale: 1 1/2" = 1'-0"

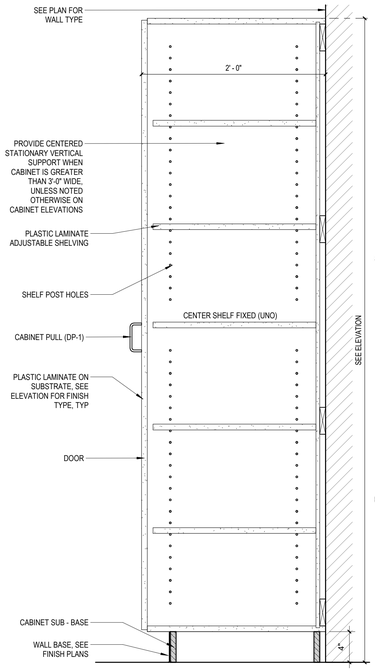


3C SECTION - FCS - TEACHER STATION
A7.8 Scale: 1 1/2" = 1'-0"

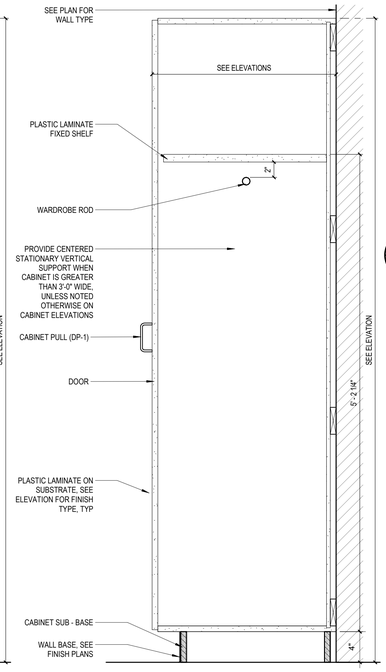


4C BASE - TRASH BIN OPENING - AWI 102T
A7.8 Scale: 1 1/2" = 1'-0"

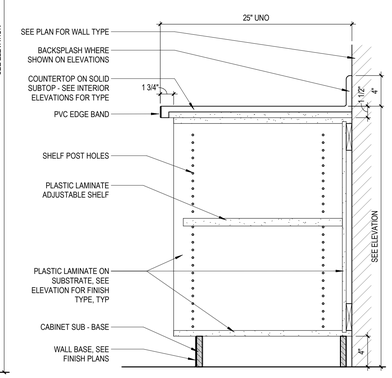




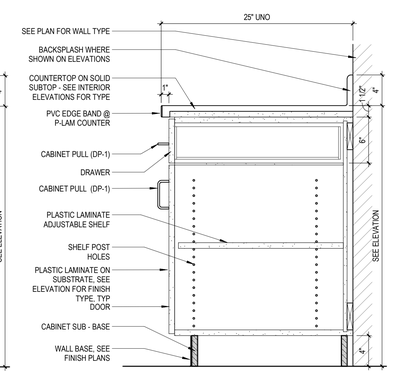
6B TALL - SHELVING - AWI 401/402
A7.8 Scale: 1 1/2" = 1'-0"



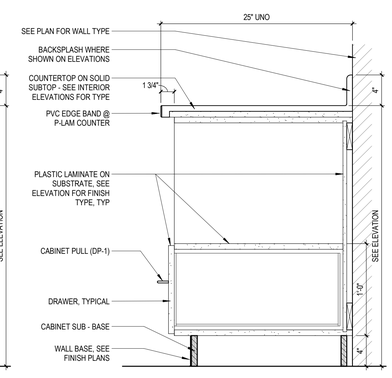
5B WARDROBE - AWI 501/502
A7.8 Scale: 1 1/2" = 1'-0"



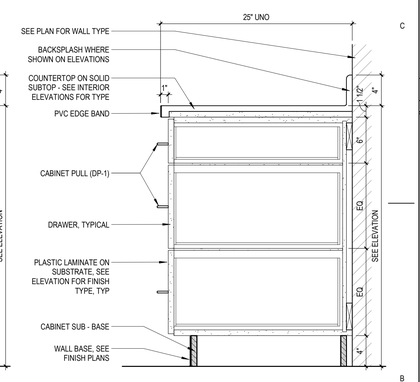
4B BASE - OPEN - AWI 100
A7.8 Scale: 1 1/2" = 1'-0"



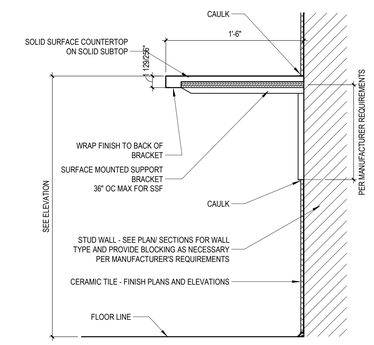
3B BASE - w/ TOP DRAWER - AWI 211/222
A7.8 Scale: 1 1/2" = 1'-0"



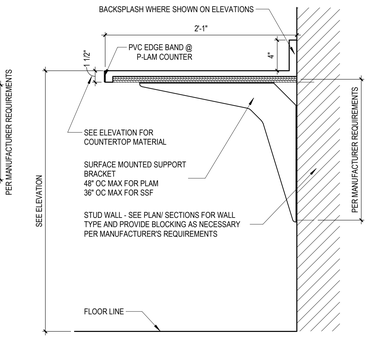
2B BASE - 1 DRAWER - AWI 223M/224M
A7.8 Scale: 1 1/2" = 1'-0"



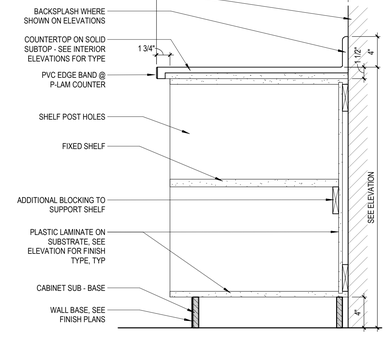
1B BASE - 3 DRAWERS - AWI 253
A7.8 Scale: 1 1/2" = 1'-0"



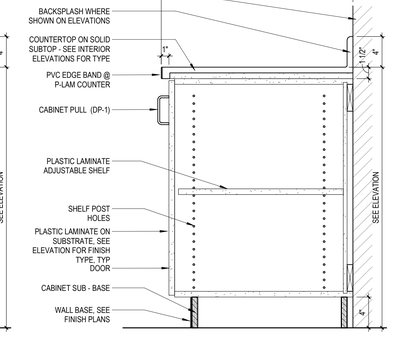
6A COUNTERTOP AT CBR-2
A7.8 Scale: 1 1/2" = 1'-0"



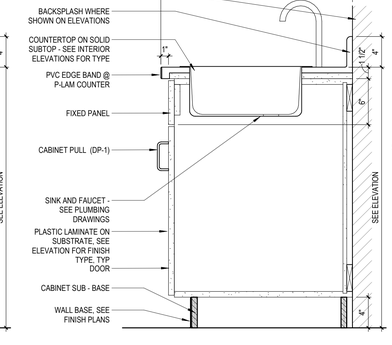
5A COUNTERTOP AT CBR-1
A7.8 Scale: 1 1/2" = 1'-0"



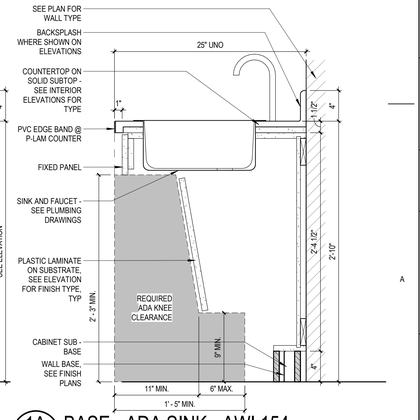
4A BASE - OPEN FIXED - AWI 100F
A7.8 Scale: 1 1/2" = 1'-0"



3A BASE - NO DRAWER - AWI 101/102
A7.8 Scale: 1 1/2" = 1'-0"



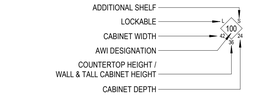
2A BASE - SINK - AWI 151/152
A7.8 Scale: 1 1/2" = 1'-0"



1A BASE - ADA SINK - AWI 154
A7.8 Scale: 1 1/2" = 1'-0"

GENERAL MILLWORK NOTES

MILLWORK TAG LEGEND



GENERAL MILLWORK NOTES:

1. PROVIDE FIRE TREATED WOOD BLOCKING AT WALLS FOR SUPPORT OF WORK SURFACES, WALL CABINETS, BASE CABINETS, MOUNTING CLEATS AND ALL OTHER MILLWORK REQUIRING BLOCKING.
2. ALL BASE CABINETS ARE 24" DEEP (NOM) UNLESS NOTED OTHERWISE.
3. ALL WALL CABINETS ARE 15" DEEP (NOM) UNLESS NOTED OTHERWISE.
4. ALL BACKSPLASHES & SIDESPLASHES ARE 4" HIGH. UNLESS NOTED OTHERWISE.
5. ALL TOE SPACES TO BE 4" HIGH & 3" DEEP UNLESS NOTED OTHERWISE.
6. FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION OF MILLWORK.
7. ALL CABINET ENDS & ALL EXPOSED SURFACES TO BE FINISHED WITH PLASTIC LAMINATE.
8. SCHEDULED BASE TO BE APPLIED TO ALL EXPOSED AREAS OF MILLWORK.
9. ALL 6 SURFACES OF SHELVES TO BE FINISHED.
10. ALL WORK SURFACES THAT MEET A WALL SHALL BE ATTACHED WITH 1"x2" WOODEN CLEATS ATTACHED TO WALL BLOCKING UNLESS OTHERWISE NOTED.
11. ALL BASE CABINETS & WALL CABINETS SHALL RECEIVE A 2" FILLER (F) WHEN MEETING WALLS UNLESS OTHERWISE NOTED.
12. ALL WALL AND BASE CABINET CORNER CONDITIONS WILL RECEIVE A FILLER (F) UNLESS OTHERWISE NOTED.
13. ALL WALL CABINET CORNER CONDITIONS REQUIRE UNDER CABINET AND TOP OF CABINET FILLERS (F).
14. COUNTERTOP EDGE STYLE TO BE WATERALL UNLESS OTHERWISE NOTED.
15. DOOR AND DRAWER-FRONT STYLE AT RECEPTION DESKS TO BE FLUSH OVERLAY. ALL OTHER LOCATIONS TO BE REVEAL OVERLAY UNLESS NOTED OTHERWISE.
16. ALL DOORS AND DRAWERS SHOWING PULLS TO RECEIVE DP-1 UNLESS OTHERWISE NOTED. SEE INTERIOR FINISH LEGEND.

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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12/19/2025

Project Number:
3705

Sheet Title:
CASEWORK DETAILS

Sheet Number:
A7.8

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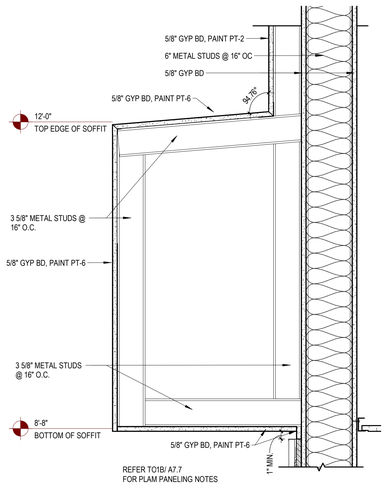
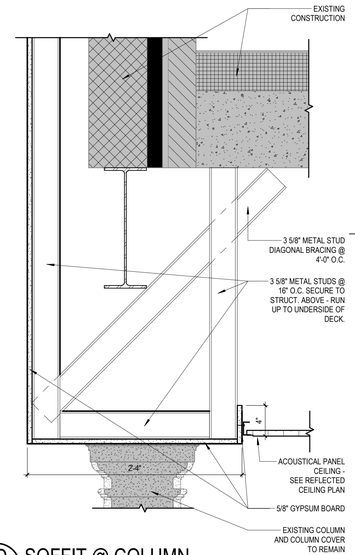


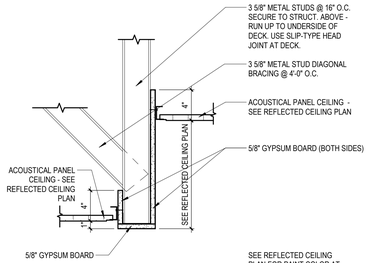
2D SOFFIT @ SCHOOL STORE

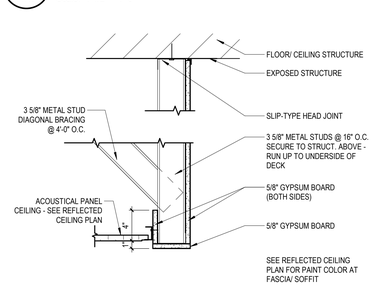
A7.9 Scale: 1 1/2" = 1'-0"

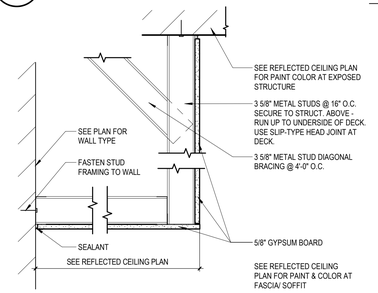


1D SOFFIT @ COLUMN

A7.9 Scale: 1 1/2" = 1'-0"







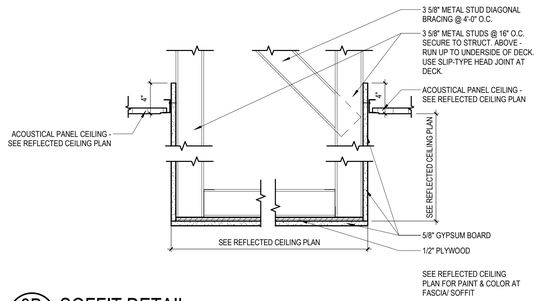
3C SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"



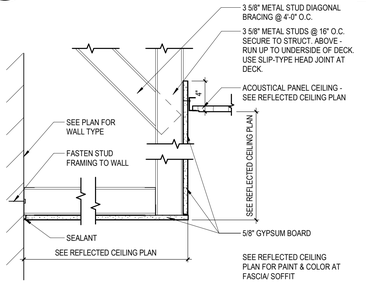
2C SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"



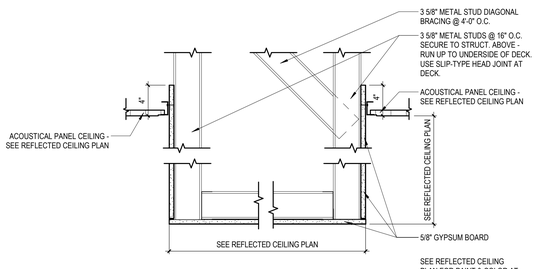
1C SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"



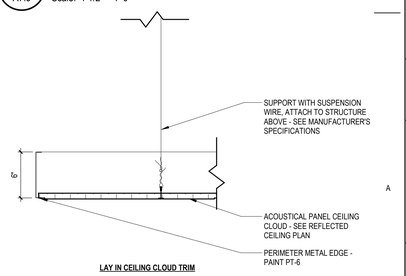
3B SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"



1B SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"



LAY IN CEILING CLOUD TRIM

3A SOFFIT DETAIL

A7.9 Scale: 1 1/2" = 1'-0"

1A CEILING CLOUD TRIM

A7.9 Scale: 1 1/2" = 1'-0"

BRAY ARCHITECTS
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829 South 1st Street
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Sheet Number:
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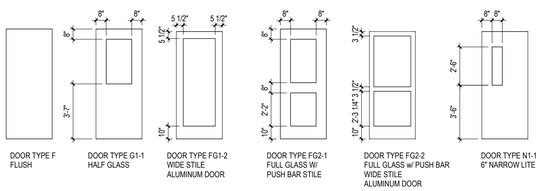
DOOR AND FRAME SCHEDULE

NUMBER	DOOR LEAF QTY	DOOR SIZE WIDTH	DOOR SIZE HGT	DOOR TYPE	DOOR MAT	DOOR FIN	DOOR GL	SIDELITE & TRANSOM GL	FRAME TYPE	FRAME MAT	FRAME FIN	FRAME DETAIL HEAD	FRAME DETAIL JAMB	FRAME DETAIL SILL	HDWE TAG	RATING (MIN)	REMARKS
A100A.1	2	3'-0"	7'-2"	FG2-2	ALUM	AN-CLR	FPGL-1		SF-06	ALUM	AN-CLR	6D/A8.1	6C/A8.1		AL1	20 MIN	
A100B.1	1	3'-0"	7'-2"	FG2-2	ALUM	AN-CLR	FPGL-1		SF-07	ALUM	AN-CLR	6D/A8.1	6C/A8.1		AL2	20 MIN	
A100B.2	1	3'-0"	7'-0"	N1-1	HM	PT-2	GL-1		01A	HM	PT-2	2D/A8.1	3D/A8.1		16		
A100B.3	1	6'-0"	4'-6"	C	SST	SST	--		--	STL	--	4D/A7.7	4C/A7.7	4A/A7.7	--	60 MIN	
A100B.4	1	6'-0"	4'-6"	C	SST	SST	--		--	STL	--	4D/A7.7	4C/A7.7	4A/A7.7	--	90 MIN	
A100F.1	1	3'-0"	7'-0"	FG2-2	ALUM	AN-CLR	GL-1	GL-1	SF-08	ALUM	AN-CLR	4E/A8.1	3E/A8.1		AL3		
A100F.2				OH2	ALUM	AN-CLR	SEE SPECS		--	--	--	3E/A8.2	5A/8.2		--		
A100F.3				OH2	ALUM	AN-CLR	SEE SPECS		--	--	--	3E/A8.2	5A/8.2		--		
A100F.4				OH2	ALUM	AN-CLR	SEE SPECS		--	--	--	3E/A8.2	5A/8.2		--		
A100F.5	1	3'-0"	7'-0"	FG2-2	ALUM	AN-CLR	GL-1	GL-1	SF-08	ALUM	AN-CLR	4E/A8.1	3E/A8.1		AL3		
A100F.6				OH2	ALUM	AN-CLR	SEE SPECS		--	--	--	3E/A8.2	5A/8.2		--		
A100F.7				OH2	ALUM	AN-CLR	SEE SPECS		--	--	--	3E/A8.2	5A/8.2		--		
A106.1	1	3'-6"	7'-0"	F	HM	PT-2			01	HM	PT-2	4C/A8.1	4B/A8.1		12	20 MIN	
A106.2	1	6'-0"	5'-2"	C	SST	SST			--	STL	--	1A/A8.2	4A/A8.2	1A/A8.2	--	60 MIN	
A106A.1	1	3'-6"	7'-0"	F	HM	PT-2			01	HM	PT-2	4C/A8.1	4A/A8.1		11	20 MIN	
A107.1	1	3'-0"	7'-0"	N1-1	HM	PT-2	FPGL-1		01A	HM	PT-2	5C/A8.1	5A/A8.1		05	20 MIN	
A107A.1	1	3'-0"	7'-0"	N1-1	HM	PT-2		GL-1	01A	HM	PT-2	5C/A8.1	5A/A8.1		04		
A107B.1	1	14'-0"	8'-0"	RS1	SST	SST			--	STL	--	5D/A7.4	1D/A7.4		--	90 MIN	
A107B.2	1	3'-0"	7'-10"	N1-1	HM	PT-2	FPGL-1		01	HM	PT-2	5C/A8.1	5A/A8.1		05	20 MIN	
A107B.3	1	14'-0"	8'-0"	RS1	SST	SST			--	STL	--	4B/A7.4	4A/A8.2		--	60 MIN	
A107C.1	2	3'-0"	7'-2"	F	HM	PT-2			02	HM	PT-2	5C/A8.1	5A/A8.1		03		
A107D.1	1	3'-0"	7'-0"	F	HM	PT-2			01	HM	PT-2	5C/A8.1	5A/A8.1		01		
A107E.1	1	3'-0"	7'-0"	F	HM	PT-2			01	HM	PT-2	5C/A8.1	5A/A8.1		02		
A108.1	2	3'-4"	7'-0"	N1-1	HM	PT-2	FPGL-1		02A	HM	PT-2	5B/A8.1	5A/A8.1		07	20 MIN	
A108.2	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	5D/A5.0	2C/A5.0	1B/A5.0	21		
A108.3	1	10'-0"	10'-0"	OH1	STL	WHITE	SEE SPECS		--	--	--	2B/A8.2	6A/A8.2	1A/A5.0	--		
A108.4	2	3'-0"	7'-0"	N1-1	HM	PT-2	GL-1		02A	HM	PT-2	5C/A8.1	5A/A8.1		06		
A109.1	2	3'-0"	7'-10"	F	HM	PT-2			17A	HM	PT-2	3B/A7.4	2A/A7.4		10	90 MIN	
A109A.1	2	3'-4"	7'-0"	N1-1	HM	PT-2	GL-1		02A	HM	PT-2	5C/A8.1	5A/A8.1		08		
A109B.1	2	3'-0"	7'-0"	FG2-2	FRP	SLATE GRAY	IGU-1	IGU-1	09	ALUM	AN-CLR	5D/A5.0	2C/A5.0	1B/A5.0	22		
A110.7	2	3'-0"	7'-2"	F	HM	PT-2			02	HM	PT-2	4C/A7.5	3B/A7.5		09	90 MIN	
B135.1	2	3'-0"	7'-0"	FG1-2	ALUM	AN-CLR	GL-1	GL-1	SF-09	ALUM	AN-CLR	1E/A8.1	2E/A8.1		AL4		
B135B.1	2	2'-6"	7'-0"	F	HM	PT-2			02	HM	PT-2	2D/A8.1	3D/A8.1		03A		
C108.1	1	3'-0"	7'-2"	F	WD	WDFIN-1			01	HM	PT-2	4C/A8.1	4B/A8.1		18	20 MIN	
C109.1	1	4'-0"	7'-10"	F	HM	PT-2			01	HM	PT-2	5C/A8.1	5A/A8.1		17	90 MIN	
C109A.1	1	3'-0"	7'-0"	F	HM				01	HM		5C/A8.1	5A/A8.1				
C115.1	2	3'-0"	7'-10"	F	HM	PT-2			02	HM	PT-2	5C/A8.1	5A/A8.1		20	90 MIN	
C116.1	2	3'-0"	7'-10"	F	HM	PT-2			02	HM	PT-2	5B/A8.1	5A/A8.1		21	20 MIN	
C116.2	1	5'-4"	4'-6 1/2"	SV	SST	SST			--	STL	--	2D/A7.5	1C/A7.5	1B/A7.5	--	90 MIN	
C116.3	1	5'-4"	4'-6 1/2"	SV	SST	SST			--	STL	--	2D/A7.5	1C/A7.5	1B/A7.5	--	90 MIN	
C117.1	2	3'-0"	8'-0"	FG2-2	FRP	SLATE GRAY	IGU-1	IGU-1	09	ALUM	AN-CLR	5D/A5.0	2C/A5.0	1B/A5.0	22		REMOVABLE MULLION. KEY FOB
C117.2	2	3'-0"	7'-0"	FG2-2	HM	PT-2	GL-1	GL-1	09	HM	PT-2	5C/A8.1	5A/A8.1		20		
C118.1	2	3'-0"	7'-10"	G1-1	WD	PT-2		FPGL-1	02A	HM	PT-2	5C/A8.1	5A/A8.1		22	20 MIN	
C118.2	2	3'-0"	8'-0"	F	HM	PT-2			36A	--	PT-2	4D/A8.1	5D/A8.1		25		
C118A.1	1	3'-0"	7'-0"	F	HM	PT-2			01	HM	PT-2	5C/A8.1	5A/A8.1		23		
C118A.2	1	6'-0"	7'-4"	CV	SST	SST			--	STL	--	2A/A8.2	4A/A8.2		--		
C120.1	1	6'-0"	7'-4"	CV	SST	SST			--	STL	--	3D/A7.5	4A/A8.2		--	90 MIN	
C120.2	1	3'-0"	7'-0"	F	FRP	SLATE GRAY			SF-05	--	AN-CLR	1D/A5.0	2C/A5.0	1B/A5.0	21		
C120.3	1	10'-0"	14'-8"	OH2	ALUM	AN-CLR	SEE SPECS		--	STL	--	2E/A8.2	6A/A8.2	1A/A5.0	--		
C121.1	1	10'-0"	14'-8"	OH2	ALUM	AN-CLR	SEE SPECS		--	STL	--	2E/A8.2	6A/A8.2	1A/A5.0	--		
C121.2	1	10'-0"	14'-8"	OH2	ALUM	AN-CLR	SEE SPECS		--	STL	--	2E/A8.2	6A/A8.2	1A/A5.0	--		
C121.3	1	10'-0"	14'-8"	OH2	ALUM	AN-CLR	SEE SPECS		--	STL	--	2E/A8.2	6A/A8.2	1A/A5.0	--		
C121.4	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM		3C/A5.1	3B/A5.1		21		
C121A.1	1	3'-0"	7'-2"	G1-1	WD	PT-2	GL-1	GL-1	05B	HM	PT-2	4C/A8.1	4A/A8.1		23		
C123.1	1	5'-4"	4'-6 1/2"	SV	SST	SST			--	STL	--	1D/A7.5	1C/A7.5	1B/A7.5	--	90 MIN	HOOD ABOVE CEILING
C123.2	1	5'-4"	4'-6 1/2"	SV	SST	SST			--	STL	--	1D/A7.5	1C/A7.5	1B/A7.5	--	90 MIN	HOOD ABOVE CEILING
C124.1	1	3'-0"	7'-2"	F	HM	PT-2			01	HM	PT-2	6B/A8.1	6A/A8.1		19	20 MIN	
C124.2	1	3'-0"	7'-2"	G1-1	WD	WDFIN-1	GL-1	GL-1	05B	HM	PT-2	6B/A8.1	6A/A8.1		16		
C125.1	2	3'-0"	7'-10"	G1-1	WD	WDFIN-1	GL-1		02A	HM	PT-2	4C/A8.1	4B/A8.1		03		
C128.1	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	3B/A8.2	2C/A5.0	1B/A5.0	23		
C129A	2	3'-0"	7'-0"	FG1-2	ALUM	AN-CLR	--		--	--	AN-CLR	--	--	--	--		BY GREENHOUSE PROVIDER
C129B.1	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	3B/A8.2	2C/A5.0	1B/A5.0	21		
C130.1	2	3'-0"	8'-0"	F	HM	PT-2			02A	HM	PT-2	4C/A7.5	3B/A7.5		24	90 MIN	
C130.2	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	3C/A5.1	3B/A5.1		23		
C131.1	1	16'-0"	14'-8"	OH2	ALUM	AN-CLR	SEE SPECS		--	STL	--	2E/A8.2	6A/A8.2	1A/A5.0	--		
C131.2	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	3C/A5.1	3B/A5.1		23		
C131.3	1	6'-0"	7'-4"	CV	SST	SST			--	STL	--	2A/A8.2	4A/A8.2		--		
C131.4	1	3'-0"	7'-2"	F	FRP	SLATE GRAY			01	ALUM	AN-CLR	3C/A5.1	3B/A5.1		21		
C132.1	2	3'-0"	7'-2"	F	FRP	SLATE GRAY			02	ALUM	AN-CLR	3C/A5.1	3B/A5.1		24		
C200.1	1	3'-0"	7'-2"	F	--				--	--		---	---		25		EXISTING DOOR AND FRAME
C203.1	2	3'-0"	7'-2"	F	--				--	--		---	---		25		EXISTING DOOR AND FRAME
D110.1	2	3'-0"	7'-2"	F	HM	PT-2			02	HM	PT-2	4C/A8.1	4A/A8.1		20	20 MIN	
D124.1	1	8'-0"	7'-4"	CV	SST	SST			--	STL	--	3D/A7.5	6B/A8.2	3A/A7.5	--	90 MIN	
D124A.1	2	3'-0"	7'-0"	F	HM	PT-2			02A	HM	PT-2	5C/A8.1	5A/A8.1		03		

BORROWED LITE SCHEDULE

MARK	TYPE	WIDTH	HEIGHT	SILL HEIGHT	FRAME MATERIAL	FRAME FINISH	GLASS	DETAILS HEAD	DETAILS JAMB	DETAILS SILL	FIRE RATING	COMMENTS
BL-A100.1	BL01	6'-8"	5'-10"	2'-10"	ALUM	AN-CLR	FRGL-1	4A/A8.1	4B/A8.1	4C/A8.1	45 MIN	
BL-A107A.1	BL02	6'-0"	4'-8"	3'-0"	HM	PT-2	GL-1	1A/A8.1	1B/A8.1	1C/A8.1		
BL-B135.1	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-B135.2	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-B135.3	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-B135.4	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C107.1	BL04	6'-0"	4'-0"	3'-4"	HM	PT-2	FPGL-1	2A/A8.1	2B/A8.1	2C/A8.1	60 MIN	
BL-C109.1	BL04	6'-0"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C109.2	BL04	6'-0"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C109.3	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C109.4	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C109.5	BL03	2'-8"	4'-0"	3'-4"	HM	PT-2	FRGL-1	2A/A8.1	2B/A8.1	2C/A8.1	45 MIN	
BL-C109.6	BL04	6'-0"	4'-0"	3'-4"	HM	PT-2	FRGL-1				45 MIN	
BL-C109.7	BL05	5'-4"	4'-8"	3'-4"	HM	PT-2	GL-1	2C/A5.2	6D/A5.2	6B/A5.2		
BL-C109.8	BL05	5'-4"	4'-8"	3'-4"	HM	PT-2	GL-1	2C/A5.2	6D/A5.2	6B/A5.2		
BL-C116.1	BL06	6'-0"	4'-8"	3'-4"	HM	PT-2	FRGL-1	1A/A8.1	1B/A8.1	1C/A8.1	45 MIN	
BL-C116.2	BL06	6'-0"	4'-8"	3'-4"	HM	PT-2	FRGL-1	1A/A8.1	1B/A8.1	1C/A8.1	45 MIN	
BL-C116.3	BL06	6'-0"	4'-8"	3'-4"	HM	PT-2	FRGL-1	1A/A8.1	1B/A8.1	1C/A8.1	45 MIN	
BL-C118.1	BL07	10'-0"	4'-0"	3'-4"	HM	PT-2	GL-1	1A/A8.1	1B/A8.1	1C/A8.1		
BL-C118.2	BL04	6'-0"	4'-0"	3'-4"	HM	PT-2	GL-1	1A/A8.1	1B/A8.1	1C/A8.1		
BL-C123.1	BL05	5'-4"	4'-8"	2'-8"	HM	PT-2	GL-1	2C/A5.2	6D/A5.2			
BL-C123.2	BL05	5'-4"	4'-8"	2'-8"	HM	PT-2	GL-1	2C/A5.2	6D/A5.2			
BL-C124.1	BL02	6'-0"	4'-8"	2'-8"	HM	PT-2	GL-1	2A/A8.1	2B/A8.1	2C/A8.1		
BL-C124.2	BL09	6'-8"	4'-8"	3'-0"	HM	PT-2	GL-1	2A/A8.1	2B/A8.1	2C/A8.1		
BL-C124.3	BL09	6'-8"	4'-8"	3'-0"	HM	PT-2	GL-1	2A/A8.1	2B/A8.1	2C/A8.1		
BL-C126.1	BL02	6'-0"	4'-8"	2'-8"	HM	PT-2	GL-1	2A/A8.1	2B/A8.1	2C/A8.1		
BL-C126.2	BL02	6'-0"	4'-8"	3'-0"	HM	PT-2	GL-1	1A/A8.1	1B/A8.1	1C/A8.1		
BL-C126.3	BL07	10'-0"	4'-0"	3'-4"	HM	PT-2	FPGL-2	2A/A8.1	2B/A8.1	2C/A8.1	60 MIN	



DOOR TYPE F
FLUSH

DOOR TYPE G1-1
HALF GLASS

DOOR TYPE FG1-2
WIDE STILE
ALUMINUM DOOR

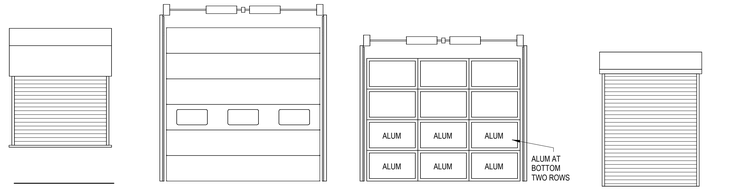
DOOR TYPE FG2-1
FULL GLASS W/
PUSH BAR STILE

DOOR TYPE FG2-2
FULL GLASS w/ PUSH BAR
WIDE STILE
ALUMINUM DOOR

DOOR TYPE N1-1
6" NARROW LITE

REMOVE UNUSED DOOR TYPES

DOOR PANEL LEGEND



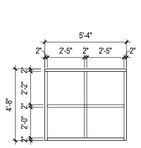
DOOR TYPE C
COILING COUNTER DOOR
PROJECT MANUAL SECTION 08 33 23

DOOR TYPE OH1
SECTIONAL OVERHEAD DOOR
PROJECT MANUAL SECTION 08 36 13

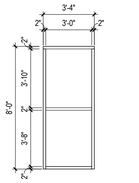
DOOR TYPE OH2
OVERHEAD DOOR W/ GLAZING
PROJECT MANUAL SECTION 08 36 16

DOOR TYPE RS1
COILING OVERHEAD DOOR
PROJECT MANUAL SECTION 08 33 23

OVERHEAD DOOR TYPES



SF-01
EXTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 6" FRAME



SF-02
INTERIOR STOREFRONT
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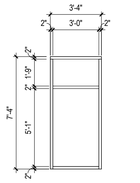
2" X 4-1/2" FRAME



SF-03
EXTERIOR STOREFRONT
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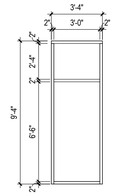
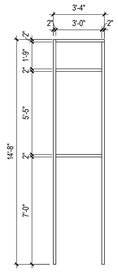
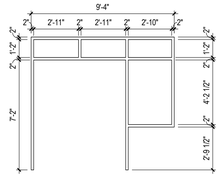
2" X 6" FRAME



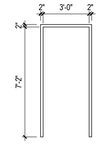
SF-04
EXTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 6" FRAME



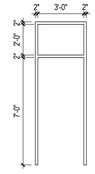
SF-05
EXTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 6" FRAME



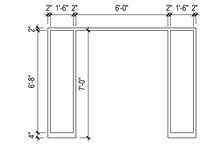
SF-06
INTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 4-1/2" FRAME



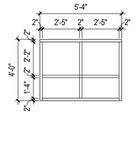
SF-07
INTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 4-1/2" FRAME



SF-08
INTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 4-1/2" FRAME

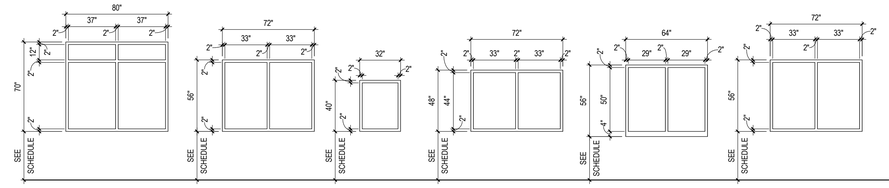


SF-09
INTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 4-1/2" FRAME

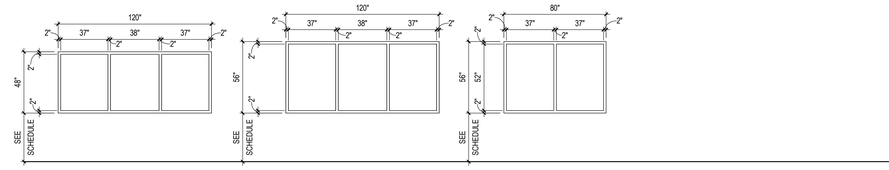


SF-10
EXTERIOR STOREFRONT
PROJECT MANUAL SECTION 08 41 13
2" X 6" FRAME

FENESTRATION TYPES

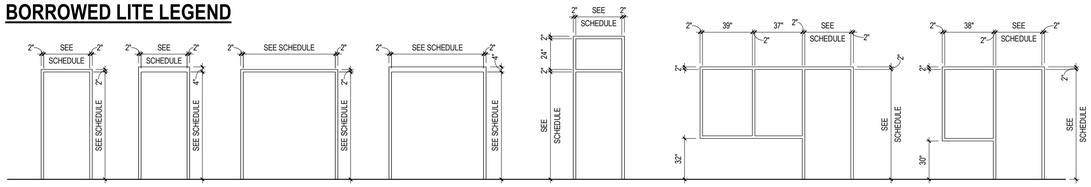


BL01 BL02 BL03 BL04 BL05 BL06

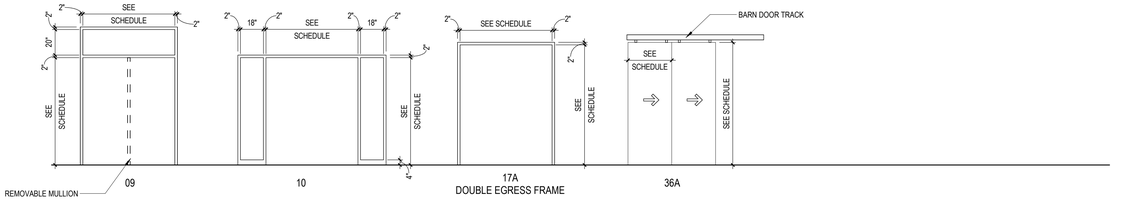


BL07 BL08 BL09

BORROWED LITE LEGEND



01 01A 02 02A 04 05A 05B



09 10 17A DOUBLE EGRESS FRAME 36A

DOOR FRAME LEGEND

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
DOOR & WINDOW SCHEDULES & TYPES

Sheet Number:
A8.0

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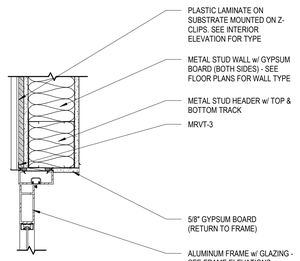
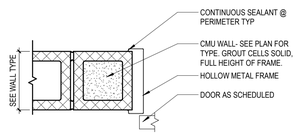
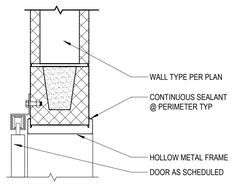


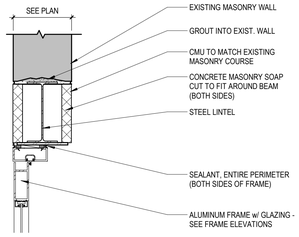
6D A8.1 ALUM DOOR HEAD @ STUD WALL
Scale: 1 1/2" = 1'-0"



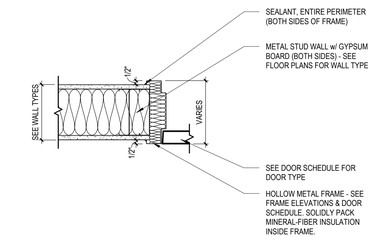
5D A8.1 BARN DOOR JAMB - CMU
Scale: 1 1/2" = 1'-0"



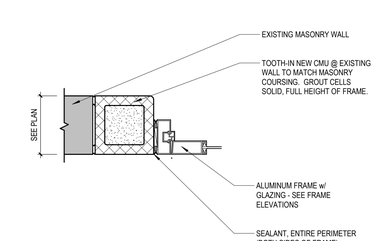
4D A8.1 BARN DOOR HEAD - CMU
Scale: 1 1/2" = 1'-0"



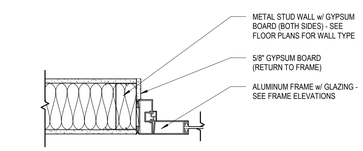
4E A8.1 HM DOOR HEAD- CMU - STEEL
Scale: 1 1/2" = 1'-0"



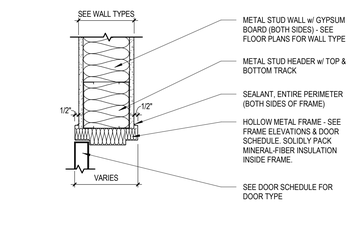
3D A8.1 HM DOOR JAMB @ STUD WALL
Scale: 1 1/2" = 1'-0"



3E A8.1 ALUM DOOR JAMB - CMU - TOOTH-IN
Scale: 1 1/2" = 1'-0"

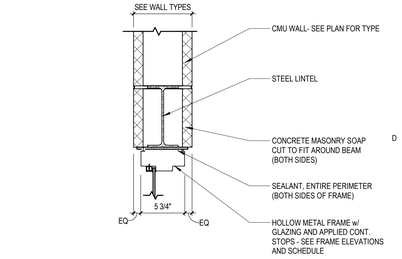


2E A8.1 ALUM DOOR JAMB @ STUD WALL
Scale: 1 1/2" = 1'-0"



2D A8.1 HM DOOR HEAD @ STUD WALL
Scale: 1 1/2" = 1'-0"

1E A8.1 ALUM DOOR HEAD @ STUD WALL
Scale: 1 1/2" = 1'-0"



1D A8.1 HM BORROWED LITE - HEAD - STEEL
Scale: 1 1/2" = 1'-0"

6C A8.1 ALUM DOOR JAMB @ STUD WALL
Scale: 1 1/2" = 1'-0"

5C A8.1 HM DOOR HEAD- CMU
Scale: 1 1/2" = 1'-0"

4C A8.1 HM DOOR HEAD- CMU - STEEL
Scale: 1 1/2" = 1'-0"

3C A8.1 HM BORROWED LITE HEAD
Scale: 1 1/2" = 1'-0"

2C A8.1 HM BORROWED LITE - HEAD - EXIST
Scale: 1 1/2" = 1'-0"

1C A8.1 HM BORROWED LITE - HEAD - CMU
Scale: 1 1/2" = 1'-0"

6B A8.1 HM DOOR HEAD- CMU - STEEL
Scale: 1 1/2" = 1'-0"

5B A8.1 HM DOOR HEAD- CMU - STEEL
Scale: 1 1/2" = 1'-0"

4B A8.1 HM DOOR JAMB - CMU - TOOTH-IN
Scale: 1 1/2" = 1'-0"

3B A8.1 HM BORROWED LITE JAMB
Scale: 1 1/2" = 1'-0"

2B A8.1 HM BORROWED LITE - JAMB - EXIST
Scale: 1 1/2" = 1'-0"

1B A8.1 HM BORROWED LITE - JAMB - NEW
Scale: 1 1/2" = 1'-0"

6A A8.1 HM DOOR JAMB
Scale: 1 1/2" = 1'-0"

5A A8.1 HM DOOR JAMB - CMU
Scale: 1 1/2" = 1'-0"

4A A8.1 HM DOOR JAMB - CMU - EXIST
Scale: 1 1/2" = 1'-0"

3A A8.1 HM BORROWED LITE SILL
Scale: 1 1/2" = 1'-0"

2A A8.1 HM BORROWED LITE - SILL - EXIST
Scale: 1 1/2" = 1'-0"

1A A8.1 HM BORROWED LITE - SILL - NEW
Scale: 1 1/2" = 1'-0"

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

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ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
DOOR & WINDOW DETAILS

Sheet Number:
A8.1

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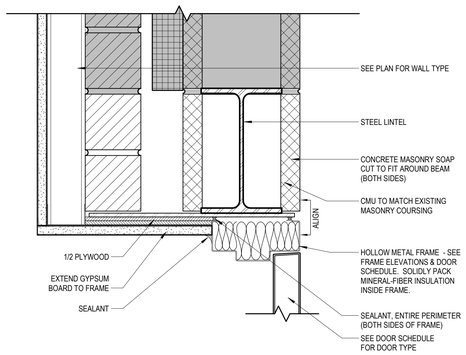
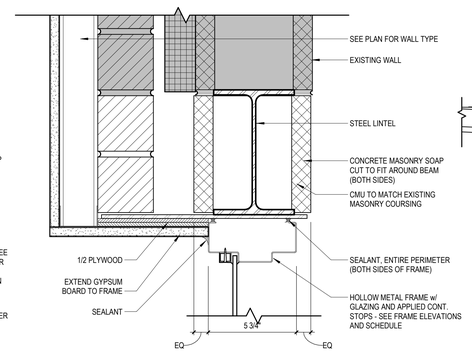
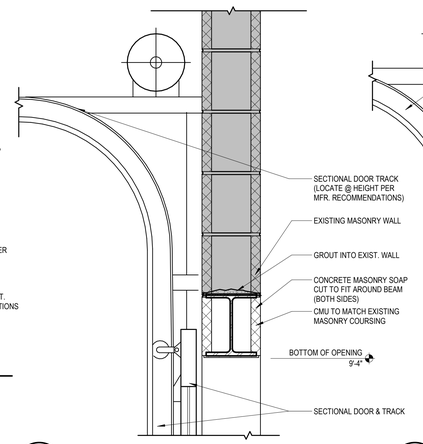


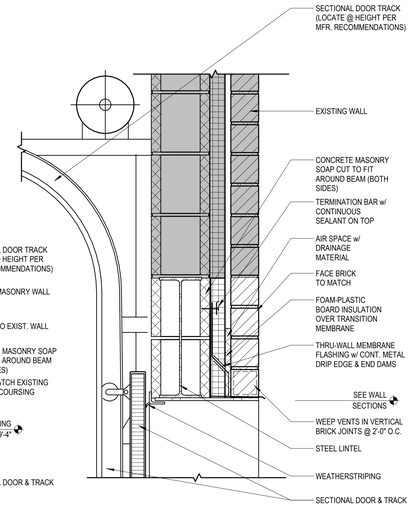
6E HM DOOR HEAD - EXIST
A8.2 Scale: 3" = 1'-0"



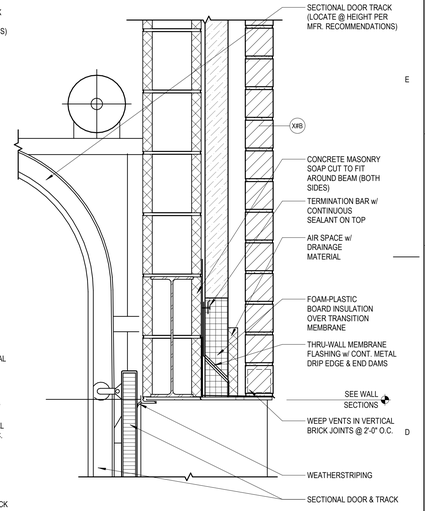
4E HM BORROWED LITE HEAD - EXIST
A8.2 Scale: 3" = 1'-0"



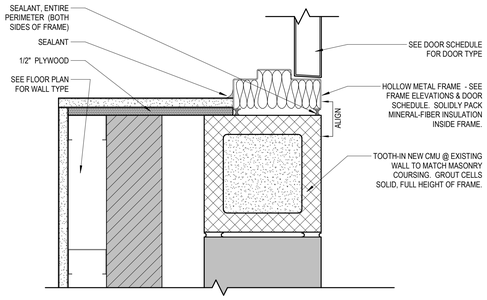
3E OVERHEAD DOOR HEAD - INTERIOR
A8.2 Scale: 1 1/2" = 1'-0"



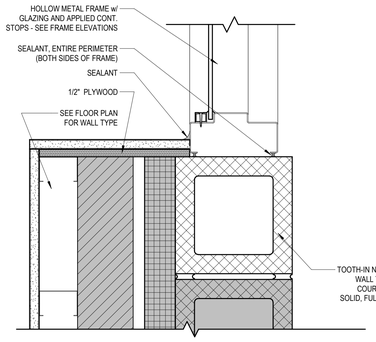
2E OVERHEAD DOOR HEAD - EXIST
A8.2 Scale: 1 1/2" = 1'-0"



1E OVERHEAD DOOR HEAD - NEW
A8.2 Scale: 1 1/2" = 1'-0"



6C HM DOOR JAMB - EXIST
A8.2 Scale: 3" = 1'-0"



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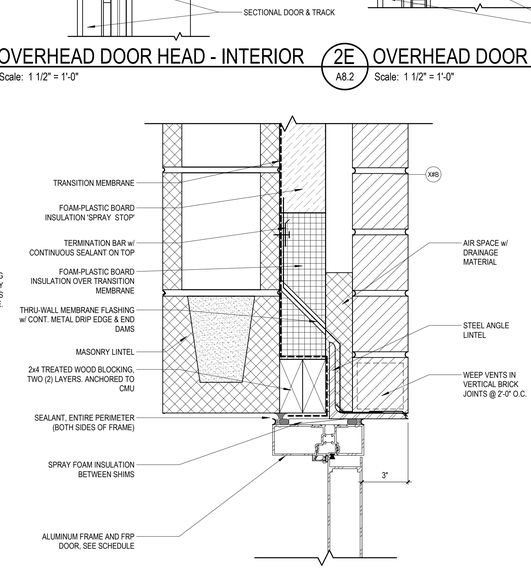
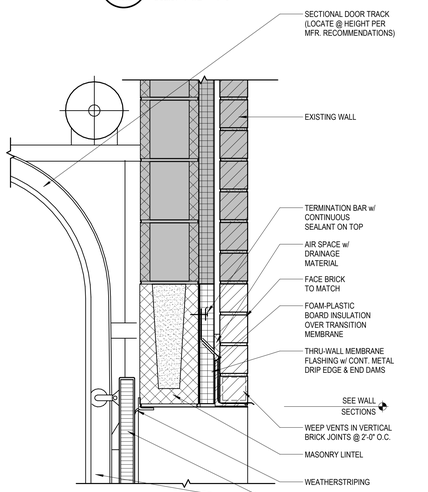
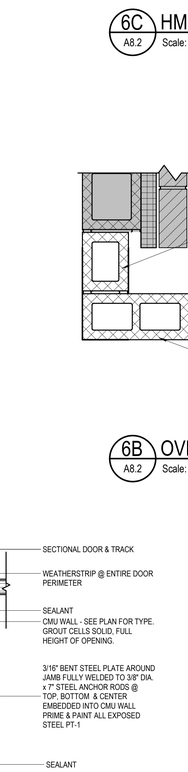
A8.2 Scale: 3" = 1'-0"



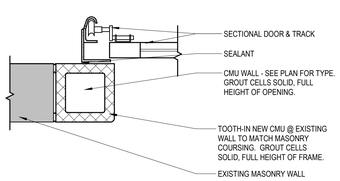
3B DOOR HEAD - CMU / BRICK - MASONRY
A8.2 Scale: 3" = 1'-0"



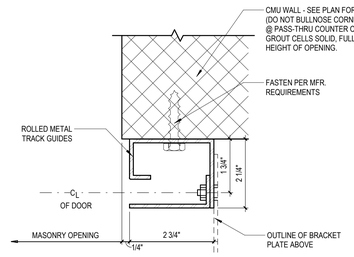
2B OVERHEAD DOOR HEAD - EXIST
A8.2 Scale: 1 1/2" = 1'-0"



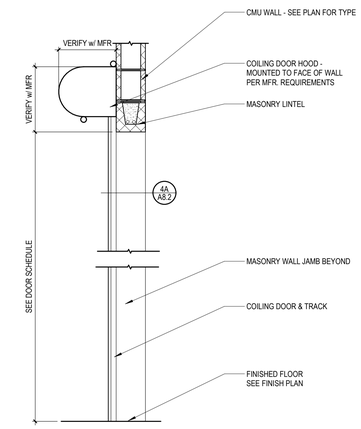
6A OVERHEAD DOOR JAMB
A8.2 Scale: 1 1/2" = 1'-0"



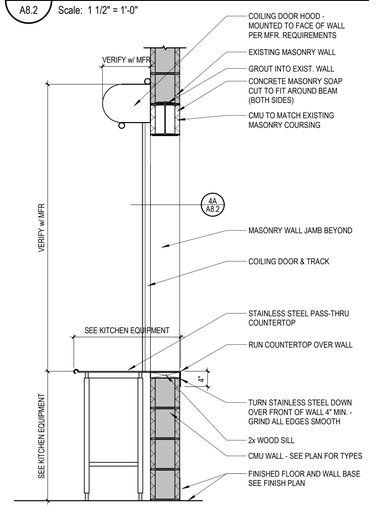
5A OVERHEAD DOOR JAMB - INTERIOR
A8.2 Scale: 1 1/2" = 1'-0"



4A COILING DOOR TRACK JAMB
A8.2 Scale: 6" = 1'-0"



2A COILING FIRE DOOR
A8.2 Scale: 3/4" = 1'-0"



1A COILING COUNTER DOOR
A8.2 Scale: 3/4" = 1'-0"

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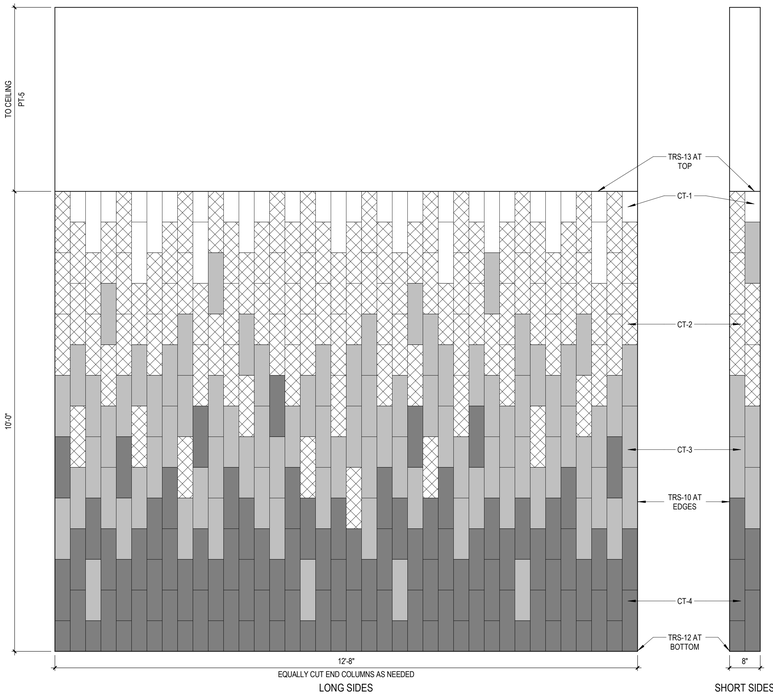
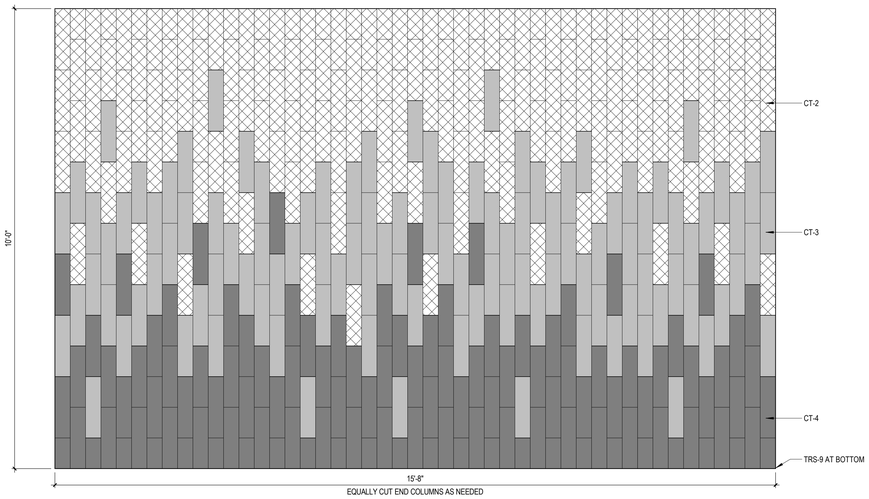
INTERIOR FINISH LEGEND

TAG	MATERIAL (GENERIC TYPE)	MATERIAL MANUFACTURER	MATERIAL SPECIFICATION	MATERIAL SIZE	MATERIAL NOTES
CG-A1	CORNER GUARD 90 DEGREE	INPRO	COLOR: PEBBLE GRAY 0387		TO BE USED WITH PT-1
CG-B1	CORNER GUARD STAINLESS STEEL	INPRO			
CPT-1	MODULAR CARPET TILE	INTERFACE	STYLE: DETOURS COLOR: 104717 ONYX	TILE SIZE: 50 CM X 50 CM	AUDITORIUM CARPET, INSTALLATION: QUARTER-TURN CONTACT: DANIELLE GALETI (715)-409-1408
CPT-2	BROADLOOM CARPET	PHILADELPHIA COMMERCIAL	STYLE: PROFUSION 20 COLOR: PLETHORA 00520	SIZE: 12' WIDE	ROBOTICS LAB
CT-1	CERAMIC TILE	DALTILE	STYLE: COLOR WHEEL LINEAR COLOR: MATTE ARCTIC WHITE 0790	TILE SIZE: 4" X 16"	INSTALLATION: VERTICAL ASHLAR, SEE ELEVATIONS, USE WITH GT-1 CONTACT: DANIELLE WEYMAN (303)-990-1998
CT-2	CERAMIC TILE	DALTILE	STYLE: COLOR WHEEL LINEAR COLOR: MATTE DESERT GRAY X714	TILE SIZE: 4" X 16"	INSTALLATION: VERTICAL ASHLAR, SEE ELEVATIONS, USE WITH GT-1 CONTACT: DANIELLE WEYMAN (303)-990-1998
CT-3	CERAMIC TILE	DALTILE	STYLE: COLOR WHEEL LINEAR COLOR: MATTE SUEDE GRAY 0782	TILE SIZE: 4" X 16"	INSTALLATION: VERTICAL ASHLAR, SEE ELEVATIONS, USE WITH GT-1 CONTACT: DANIELLE WEYMAN (303)-990-1998
CT-4	CERAMIC TILE	DALTILE	STYLE: COLOR WHEEL LINEAR COLOR: MATTE CHALKBOARD 0780	TILE SIZE: 4" X 16"	INSTALLATION: VERTICAL ASHLAR, SEE ELEVATIONS, USE WITH GT-1 CONTACT: DANIELLE WEYMAN (303)-990-1998
CT-5	CERAMIC TILE	DALTILE	STYLE: PORTFOLIO COLOR: ASH GREY PF05	TILE SIZE: 12" X 24"	INSTALLATION: ASHLAR, USE WITH GT-1 CONTACT: DANIELLE WEYMAN (303)-990-1998
FRP-1	FIBER REINFORCED PANEL	MARLITE	P 100 WHITE CLASS A		
FRP-2	FIBER REINFORCED PANEL	MARLITE	P 151 LIGHT GREY CLASS A		
GT-1	GROUT	BOSTIK	STYLE: TRUCOLOR COLOR: SHADOW H195		
LKR-1	LOCKER	PENCO	COLOR: 028 GRAY		
PCONC-1	POLISHED CONCRETE	SEE PROJECT MANUAL SECTION 03 35 43			
PLAM-1	PLASTIC LAMINATE	WILSONART	COLOR: TUSCAN WALNUT 7921-38		CAFETERIA PLAM WALL PANELING CONTACT: SHPRESA TAIRI (414)630-8414
PLAM-2	PLASTIC LAMINATE	WILSONART	COLOR: HOLLYBERRY D307-60		VERTICAL SURFACES CONTACT: SHPRESA TAIRI (414)630-8414
PLAM-3	PLASTIC LAMINATE	WILSONART	COLOR: PEWTER BRUSH 4779-60		COUNTERTOPS CONTACT: SHPRESA TAIRI (414)630-8414
PLAM-4	PLASTIC LAMINATE	WILSONART	COLOR: SATIN BRUSHED NATURAL ALUMINUM 6257		DOUBLE-SIDED DISPLAY CASE TRIM CONTACT: SHPRESA TAIRI (414)630-8414
PT-1	PAINT	SHERWIN WILLIAMS	COLOR: SW 7029 AGREEABLE GRAY		FIELD WALL COLOR
PT-2	PAINT	SHERWIN WILLIAMS	COLOR: SW 7068 GRIZZLE GRAY		HMDF, DARK GRAY ACCENT
PT-3	PAINT	SHERWIN WILLIAMS	COLOR: SW 7074 SOFTWARE		MEDIUM GRAY ACCENT
PT-4	PAINT	SHERWIN WILLIAMS	COLOR: SW 7066 GRAY MATTERS		MEDIUM GRAY ACCENT
PT-5	PAINT	SHERWIN WILLIAMS	COLOR: SW 7005 PURE WHITE		WHITE EXPOSED CEILING
PT-6	PAINT	SHERWIN WILLIAMS	COLOR: SW 6594 POINSETTIA		RED ACCENT
PT-7	PAINT	SHERWIN WILLIAMS	COLOR: SW 4584 SAFETY YELLOW		
RES-1	RESINOUS FLOORING (EPOXY)	STONHARD	STYLE: STONSHIELD UTS COLOR: DRIFTWOOD		KITCHEN, DISHWASHING & AUTOS LAB CONTACT: ROB LENTZ (574)-229-4388
RES-2	RESINOUS FLOORING	STONHARD	STYLE: STONSHIELD SLT COLOR: DRIFTWOOD		KITCHEN RESTROOM
RESB-1	RESINOUS BASE	STONHARD	STYLE: STONSHIELD UTS COLOR: DRIFTWOOD	4" INTEGRAL COVE BASE	
RESB-2	RESINOUS BASE	STONHARD	STYLE: STONSHIELD SLT COLOR: DRIFTWOOD	4" INTEGRAL COVE BASE	
RUB-1	RUBBER FLOORING - RESILIENT TILE	TARKETT	STYLE: COLOR SPLASH COLOR: GORGE AREA VF5	TILE SIZE: 24" x 24"	ROBOTICS LAB CONTACT: MELISSA SMITH (414)-299-0156
SCONC-1	SEALED CONCRETE	SEE PROJECT MANUAL SECTION 03 30 00			
SSF-1	SOLID SURFACE (WINDOW SILLS)	FORMICA	COLOR: LUNA CONCRETE 781		WINDOW SILLS CONTACT: MELISSA WESSING (262)-716-2164
SSF-2	SOLID SURFACE	FORMICA	COLOR: LUNA STORM 775		CAFETERIA COUNTERTOPS, HALF WALL CAPS CONTACT: MELISSA WESSING (262)-716-2164
STAC-2	STAIR ACCESSORY - TREAD/RISER COMBO WITH VISION STRIP	TARKETT	STYLE: ANGLE FIT RUBBER STAIR TREAD WITH VISION STRIP, RAISED ROUNDS COLOR: CHARCOAL 20 INSERT VISION STRIP: CANARY TG7		METALS LAB CONTACT: MELISSA SMITH (414)-299-0156
TRS-1	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: RENO-U COLOR: BRUSHED STAINLESS		
TRS-2	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: SCHIENE COLOR: BRUSHED STAINLESS		
TRS-3	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: RENO RAMP COLOR: SATIN ANODIZED ALUMINUM		
TRS-5	TRANSITION STRIP	JOHNSONITE	STYLE: SLT-20-B COLOR: CHARCOAL 20		
TRS-6	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: VINPRO-U COLOR: BRUSHED STAINLESS		
TRS-9	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: DILEX-AHK COLOR: SATIN ANODIZED ALUMINUM		
TRS-10	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: RONDEC COLOR: BRUSHED STAINLESS		
TRS-11	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: SCHEINE COLOR: BRUSHED STAINLESS		
TRS-12	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: DILEX-AHKA COLOR: BRUSHED STAINLESS		
TRS-13	TRANSITION STRIP	SCHLUTER SYSTEMS	STYLE: JOLLY COLOR: ANODIZED ALUMINUM		
TRS-14	TRANSITION STRIP (NOSING)	TARKETT	STYLE: SLN-20-A COLOR: CHARCOAL 20		AUDITORIUM RAMP/STEP NOSING CONTACT: MELISSA SMITH (414)-299-0156
VCT-1	VINYL COMPOSITION TILE	ARMSTRONG	STYLE: STANDARD EXCELON IMPERIAL TEXTURE COLOR: WASHED LINEN 51810	TILE SIZE: 12" X 12"	FIELD COLOR, INSTALLATION: QUARTER-TURN CONTACT: LARRY JACOBSON (608)-250-9469
VCT-2	VINYL COMPOSITION TILE	ARMSTRONG	STYLE: STANDARD EXCELON IMPERIAL TEXTURE COLOR: STERLING 51904	TILE SIZE: 12" X 12"	LIGHT GRAY ACCENT, INSTALLATION: QUARTER-TURN CONTACT: LARRY JACOBSON (608)-250-9469
VCT-3	VINYL COMPOSITION TILE	ARMSTRONG	STYLE: STANDARD EXCELON IMPERIAL TEXTURE COLOR: CHARCOAL 51915	TILE SIZE: 12" X 12"	DARK GRAY ACCENT, INSTALLATION: QUARTER-TURN CONTACT: LARRY JACOBSON (608)-250-9469
VCT-4	VINYL COMPOSITION TILE	ARMSTRONG	STYLE: STANDARD EXCELON IMPERIAL TEXTURE COLOR: RUBY RED 57534	TILE SIZE: 12" X 12"	RED ACCENT, INSTALLATION: QUARTER-TURN CONTACT: LARRY JACOBSON (608)-250-9469
WB-1	RESILIENT WALL BASE	JOHNSONITE	COLOR: CHARCOAL 20		
WB-2	RESILIENT WALL BASE (VENTED)	JOHNSONITE	COLOR: MATCH EXISTING (GYM)		
WDFLR-1	WOOD FLOOR	SEE PROJECT MANUAL SECTION 09 64 63			STAGE FLOORING
WDWT-1	WINDOW TREATMENT (MANUAL ROLLER SHADES)	SWF CONTRACT	STYLE: MANUAL ROLLER SHADES, PULL CHAIN OPERATION, ICLUDE VALANCE SERIES: CROSSHATCH R, R300 3% OPENNESS COLOR: WHITE/EGGSHELL		SEE REFLECTED CEILING PLANS, FIELD MEASURE
WDWT-2	WINDOW TREATMENT (MOTORIZED ROLLER SHADES)	SWF CONTRACT	STYLE: MOTORIZED ROLLER SHADES, PULL CHAIN OPERATION, INCLUDE VALANCE SERIES: CROSSHATCH R, R300 3% OPENNESS COLOR: WHITE/EGGSHELL		SEE REFLECTED CEILING PLAN, FIELD MEASURE
WDWT-3	WINDOW TREATMENT (MOTORIZED BLACKOUT ROLLER SHADES)	SWF CONTRACT	STYLE: MOTORIZED BLACKOUT ROLLER SHADES, PULL CHAIN OPERATION, INCLUDE VALANCE SERIES: ENTERPRISE COLOR: WHITE		SEE REFLECTED CEILING PLAN, FIELD MEASURE
WDWT-4	WINDOW TREATMENT	SWF CONTRACT	STYLE: MANUAL BLACKOUT ROLLER SHADES, PULL CHAIN OPERATION, INCLUDE VALANCE SERIES: ENTERPRISE COLOR: WHITE		
WOT-1	MODULAR WALK OFF CARPET TILE	TARKETT	STYLE: ABRASIVE ACTION II COLOR: WINTER GRAY 19103	TILE SIZE: 24" X 24"	INSTALLATION: NON-DIRECTIONAL CONTACT: MELISSA SMITH (414)-299-0156



4D A9.0 CAFETERIA A100 TILE GRADIENT

Scale: 3/4" = 1'-0"



4B A9.0 ENTRANCE A104 TILE GRADIENT

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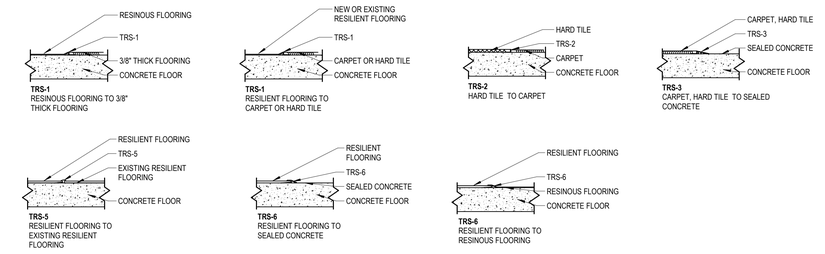
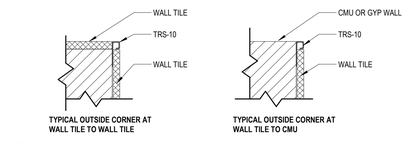


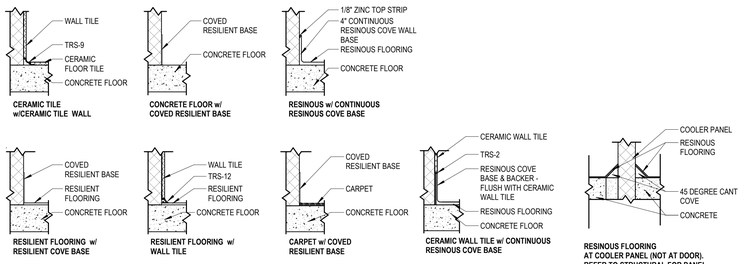
4A A9.0 TYPICAL FLOOR TRANSITIONS

Scale: 1 1/2" = 1'-0"



6B A9.0 TYPICAL OUTSIDE CORNERS AT TILE

Scale: 3" = 1'-0"

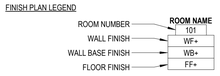


6A A9.0 TYPICAL FLOOR TO BASE CONDITIONS

Scale: 1 1/2" = 1'-0"

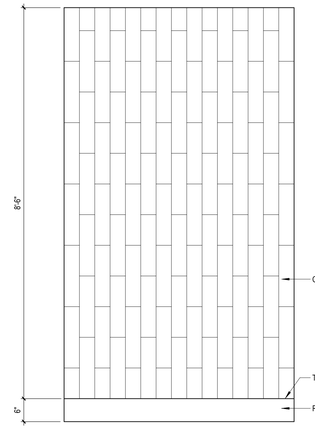
GENERAL FINISH NOTES

FINISH PLAN LEGEND



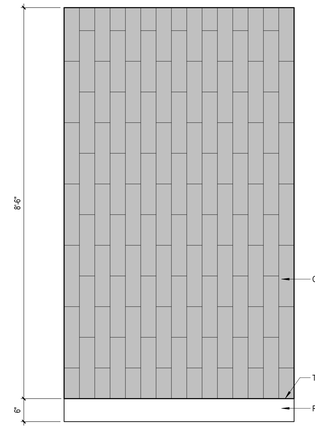
FINISH PLAN GENERAL NOTES:

1. SEE INTERIOR FINISH LEGEND FOR ALL FINISH KEYNOTES (FINISH TAGS)
2. INTERIOR FINISHES AS DEFINED BY THE 2015 INTERNATIONAL BUILDING CODE – ARE TO BE IN ACCORDANCE WITH THE CODE REQUIREMENTS SET FORTH IN CHAPTER 8 OF THE 2015 IBC AS WELL AS ALL OTHER STATE/LOCAL CODE REQUIREMENTS.
3. FOLLOW MANUFACTURER'S WRITTEN INSTALLATION GUIDELINES FOR ALL FINISHES/MATERIALS.
4. REFERENCE FINISH PLANS, ELEVATIONS AND REFLECTED CEILING PLAN FOR LOCATIONS OF ALL MATERIALS.
5. FLOORING CONTRACTOR TO PROVIDE SEAM DIAGRAM OR INSTALLATION DIAGRAM FOR CARPET TO INTERIOR DESIGNER VIA SUBMITTAL FOR APPROVAL PRIOR TO INSTALLATION.
6. FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
7. PROVIDE TRANSITION STRIPS AT CHANGES IN FLOORING.
8. SEE DETAILS AND INTERIOR FINISH LEGEND FOR FLOORING TRANSITION TYPES.
9. SEE ELEVATIONS AND DETAILS FOR MILLWORK FINISHES.
10. FIELD PAINT IN ANY SPACE IS NOTED IN ROOM TAG. ACCENT PAINT AND ANY ADDITIONAL FINISHES ARE NOTED ON THE FINISH PLANS.
11. ALL EXTERIOR CORNERS OF GYPSUM BOARD WALLS TO HAVE CORNER GUARDS. SEE INTERIOR FINISH LEGEND FOR CORRECT CG COLOR TO USE AT EACH PAINT COLOR.
12. ROOM FINISH TAG IS SHOWN ABOVE. ALL ROOMS TO RECEIVE ANY NEW FINISHES SHOW A ROOM FINISH TAG. ROOMS WITH NO NEW FINISHES SHOW ROOM NAME AND NUMBER ONLY.
13. MECHANICAL GRILLES AND DIFFUSERS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL GRILLE SCHEDULE.



1C A9.0 RESTROOM TILE TYPICAL

Scale: 3/4" = 1'-0"



1A A9.0 RESTROOM TILE ACCENT

Scale: 3/4" = 1'-0"

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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3705

Sheet Title:
INTERIOR FINISH LEGEND & GENERAL FINISH NOTES

Sheet Number:
A9.0

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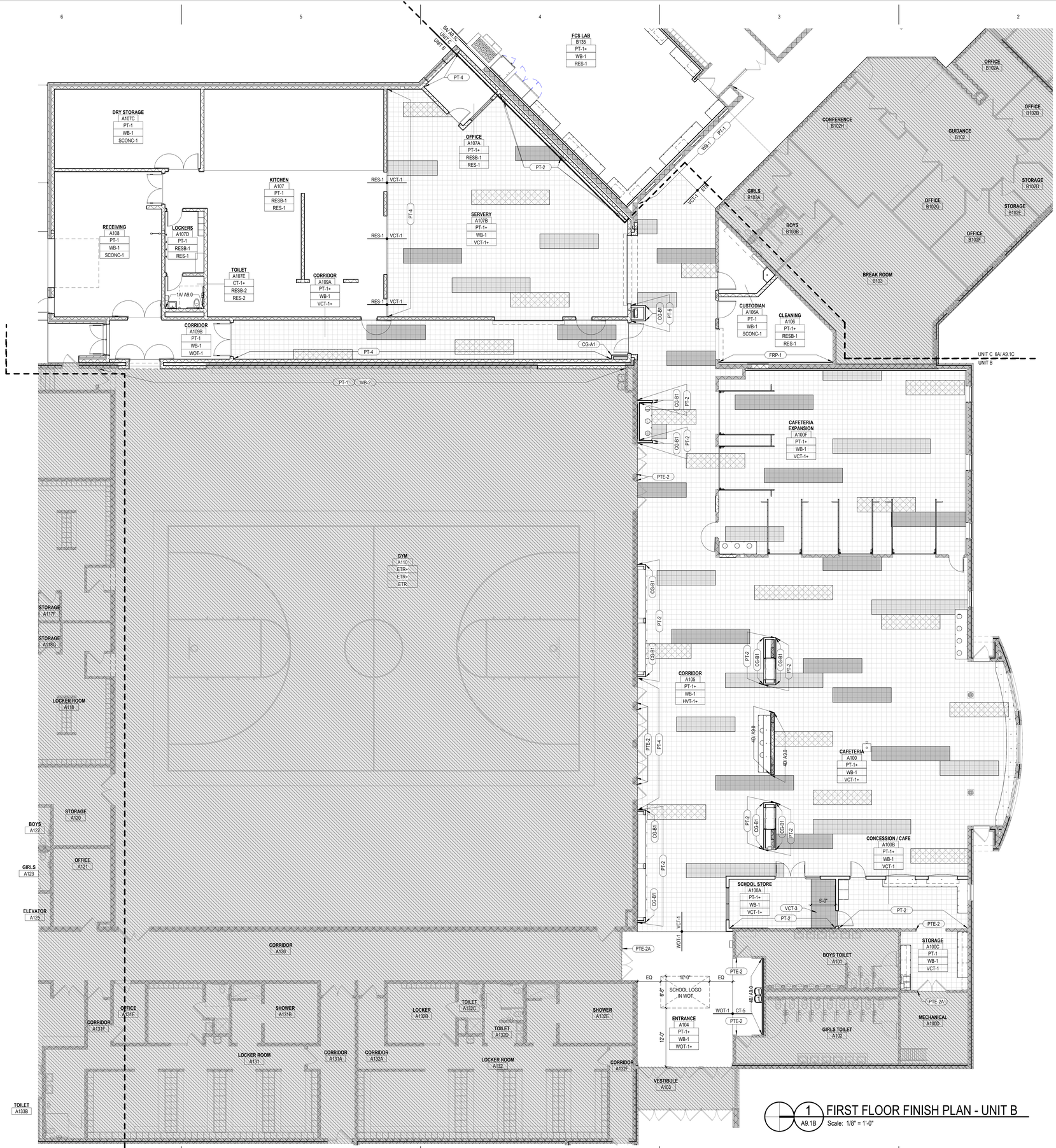

1 A9.1B FIRST FLOOR FINISH PLAN - UNIT B
Scale: 1/8" = 1'-0"

GENERAL FINISH NOTES

FINISH PLAN LEGEND

ROOM NUMBER — ROOM NAME 101
WALL FINISH — WF+
WALL BASE FINISH — WB+
FLOOR FINISH — FF+

+ SYMBOL INDICATES MORE THAN ONE TYPE OF SPECIFIED FINISH IN ROOM.

FINISH PLAN GENERAL NOTES:

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5. FLOORING CONTRACTOR TO PROVIDE SEAM DIAGRAM OR INSTALLATION DIAGRAM FOR CARPET TO INTERIOR DESIGNER VIA SUBMITTAL FOR APPROVAL PRIOR TO INSTALLATION.
6. FLOORING TRANSITIONS TO OCCUR AT CENTERLINE OF DOOR UNLESS NOTED OTHERWISE.
7. PROVIDE TRANSITION STRIPS AT CHANGES IN FLOORING.
8. SEE DETAILS AND INTERIOR FINISH LEGEND FOR FLOORING TRANSITION TYPES.
9. SEE ELEVATIONS AND DETAILS FOR MILLWORK FINISHES.
10. FIELD PAINT IN ANY SPACE IS NOTED IN ROOM TAG. ACCENT PAINT AND ANY ADDITIONAL FINISHES ARE NOTED ON THE FINISH PLANS.
11. ALL EXTERIOR CORNERS OF GYPSUM BOARD WALLS TO HAVE CORNER GUARDS. SEE INTERIOR FINISH LEGEND FOR CORRECT CG COLOR TO USE AT EACH PAINT COLOR.
12. ROOM FINISH TAG IS SHOWN ABOVE. ALL ROOMS TO RECEIVE ANY NEW FINISHES SHOW A ROOM FINISH TAG. ROOMS WITH NO NEW FINISHES SHOW ROOM NAME AND NUMBER ONLY.
13. MECHANICAL GRILLES AND DIFFUSERS SHALL BE PAINTED TO MATCH ADJACENT WALL SURFACE UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL GRILLE SCHEDULE.

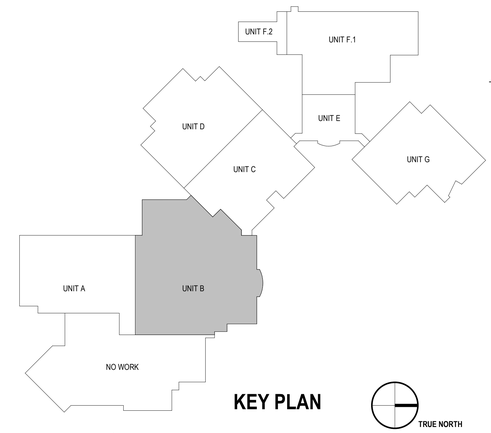
FLOORING LEGEND

VCT TYPES

- VCT-1
- VCT-2
- VCT-3
- VCT-4

KEYNOTE LEGEND

CG-A1	CORNER GUARDS – SEE INTERIOR FINISH LEGEND
CG-B1	CORNER GUARDS (STAINLESS STEEL) – SEE INTERIOR FINISH LEGEND
FRP-1	FIBER REINFORCED PANEL – SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PT-6	PAINT - SEE INTERIOR FINISH LEGEND
PTE-2	PAINT EXISTING FRAME PT-2
PTE-2A	PAINT EXISTING DOOR AND FRAME PT-2
VCT-3	VINYL COMPOSITION TILE - SEE INTERIOR FINISH LEGEND
WB-1	WALL BASE - SEE INTERIOR FINISH LEGEND
WB-2	WALL BASE - SEE INTERIOR FINISH LEGEND



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TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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UNIT B - FIRST FLOOR FINISH PLAN

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FLOORING LEGEND

VCT TYPES

- VCT-1
- VCT-2
- VCT-3
- VCT-4

KEYNOTE LEGEND

CG-A1	CORNER GUARDS – SEE INTERIOR FINISH LEGEND
CT-1	TILE - SEE INTERIOR FINISH LEGEND
FRP-2	FIBER REINFORCED PANEL – SEE INTERIOR FINISH LEGEND
PLAM-2	PLASTIC LAMINATE - SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-5	PAINT - SEE INTERIOR FINISH LEGEND
WB-1	WALL BASE - SEE INTERIOR FINISH LEGEND

GENERAL FINISH NOTES

FINISH PLAN LEGEND

ROOM NUMBER — ROOM NAME: 101
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WALL BASE FINISH — WB+
FLOOR FINISH — FF+

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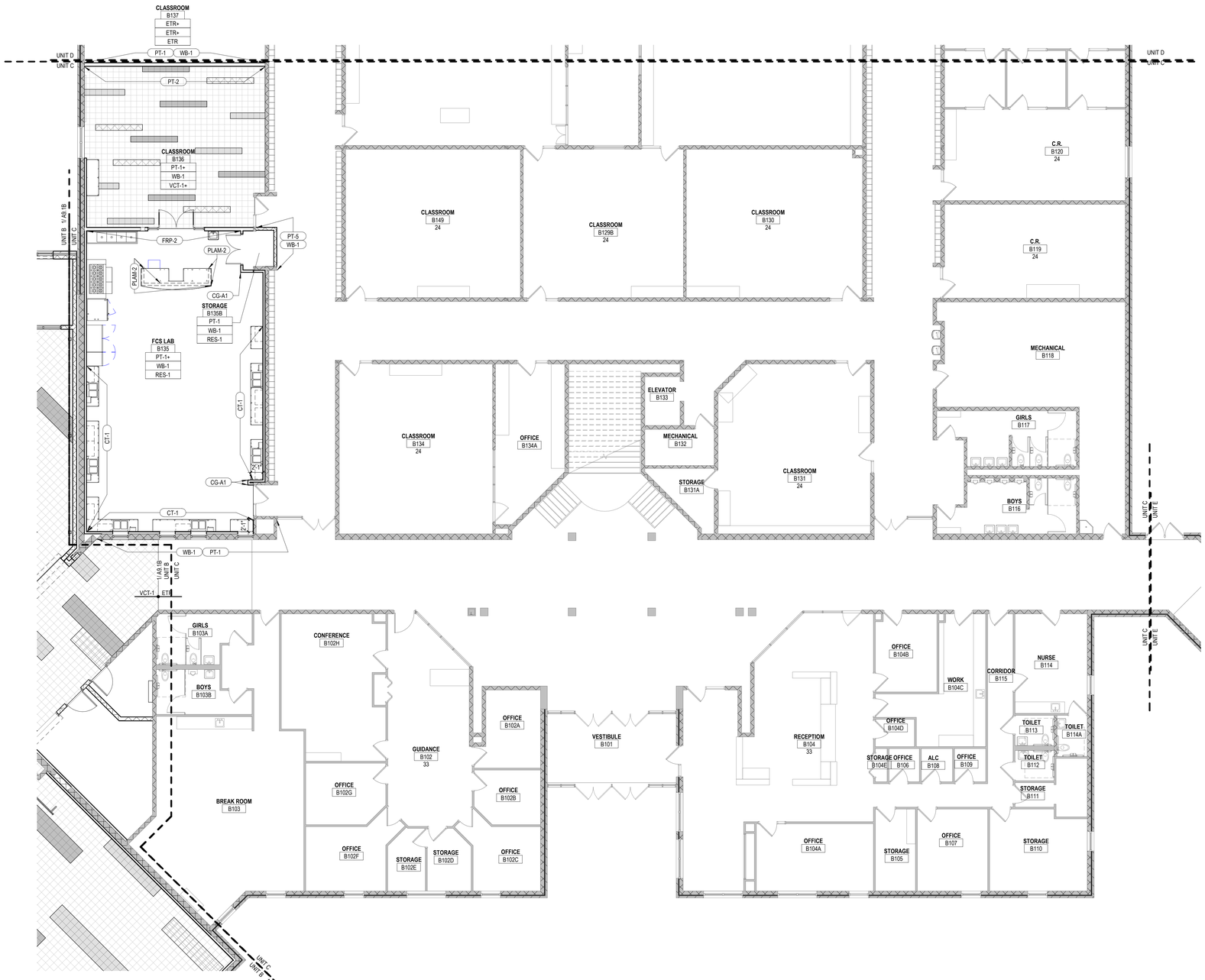
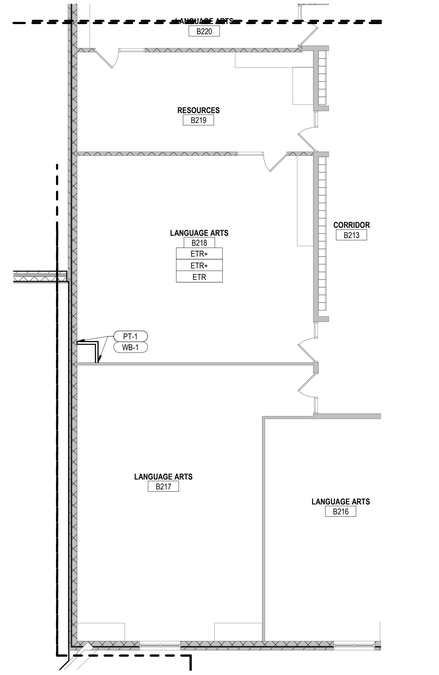


6A A9.1C FIRST FLOOR FINISH PLAN - UNIT C
Scale: 1/8" = 1'-0"



1B A9.1C SECOND FLOOR
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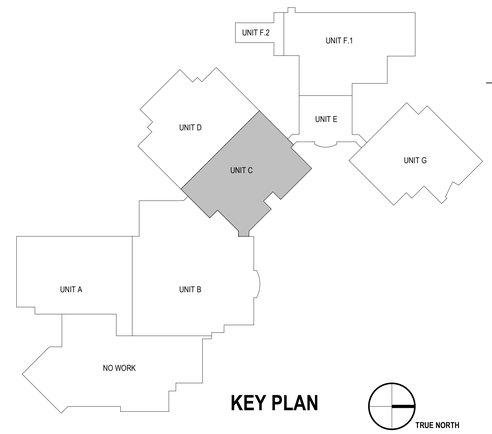

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829 South 1st Street
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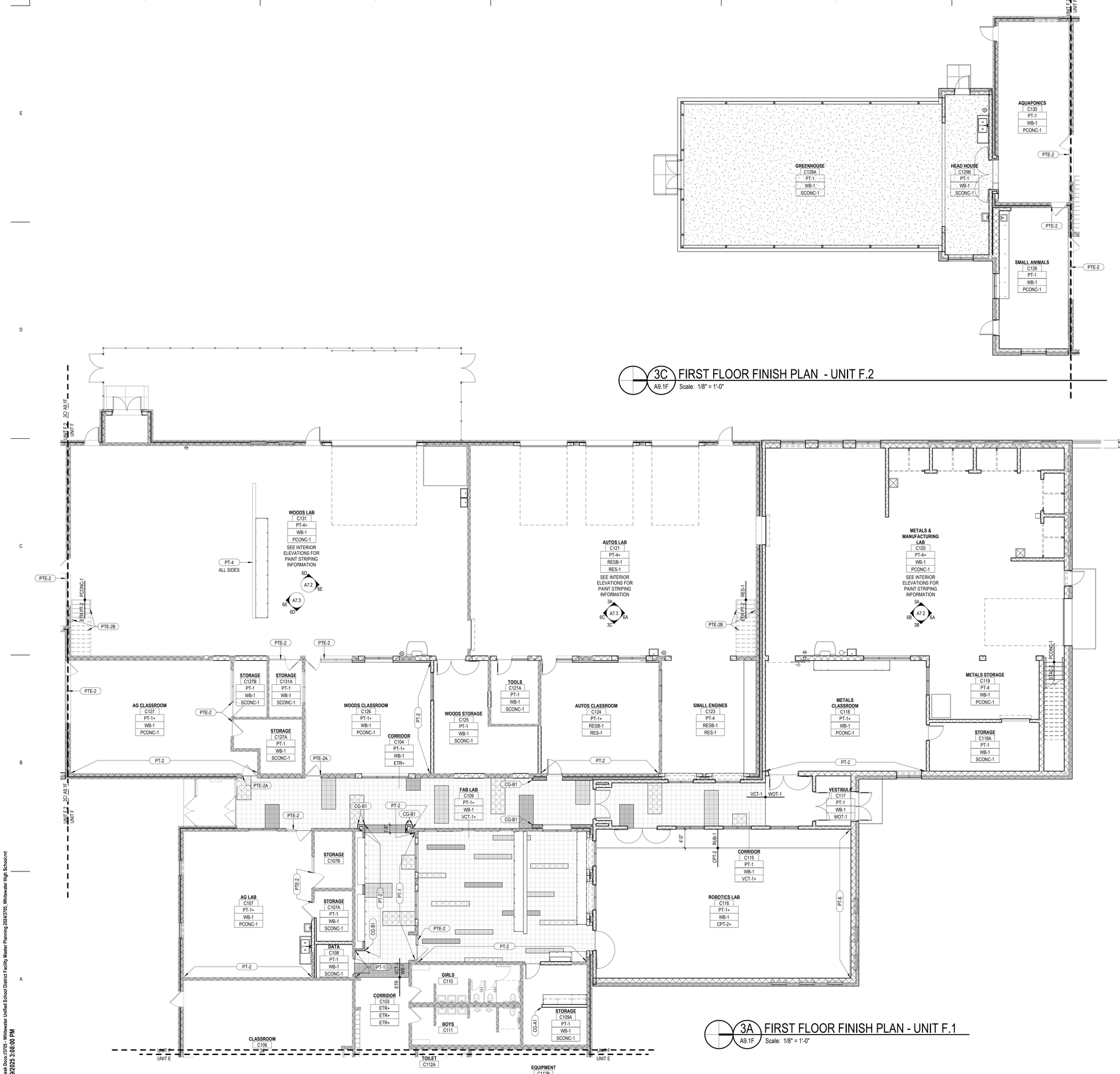


3C A9.1F FIRST FLOOR FINISH PLAN - UNIT F.2

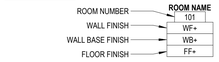
Scale: 1/8" = 1'-0"

3A A9.1F FIRST FLOOR FINISH PLAN - UNIT F.1

Scale: 1/8" = 1'-0"

GENERAL FINISH NOTES

FINISH PLAN LEGEND



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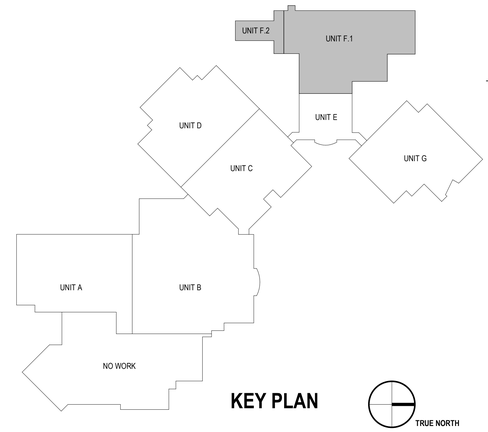
FLOORING LEGEND

VCT TYPES

VCT-1
VCT-2
VCT-3
VCT-4

KEYNOTE LEGEND

CG-A1	CORNER GUARDS – SEE INTERIOR FINISH LEGEND
CG-B1	CORNER GUARDS (STAINLESS STEEL) – SEE INTERIOR FINISH LEGEND
PT-1	PAINT - SEE INTERIOR FINISH LEGEND
PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PT-4	PAINT - SEE INTERIOR FINISH LEGEND
PT-6	PAINT - SEE INTERIOR FINISH LEGEND
PTE-2	PAINT EXISTING FRAME PT-2
PTE-2A	PAINT EXISTING DOOR AND FRAME PT-2
PTE-2B	PAINT EXISTING RAILING, STAIR STRINGER AND STAIR TREADS PT-2, PAINT VISION STRIP ON STAIR TREADS



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
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T: 414.226.0200
Sheboygan • Davenport
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UNIT F - FIRST FLOOR FINISH PLAN

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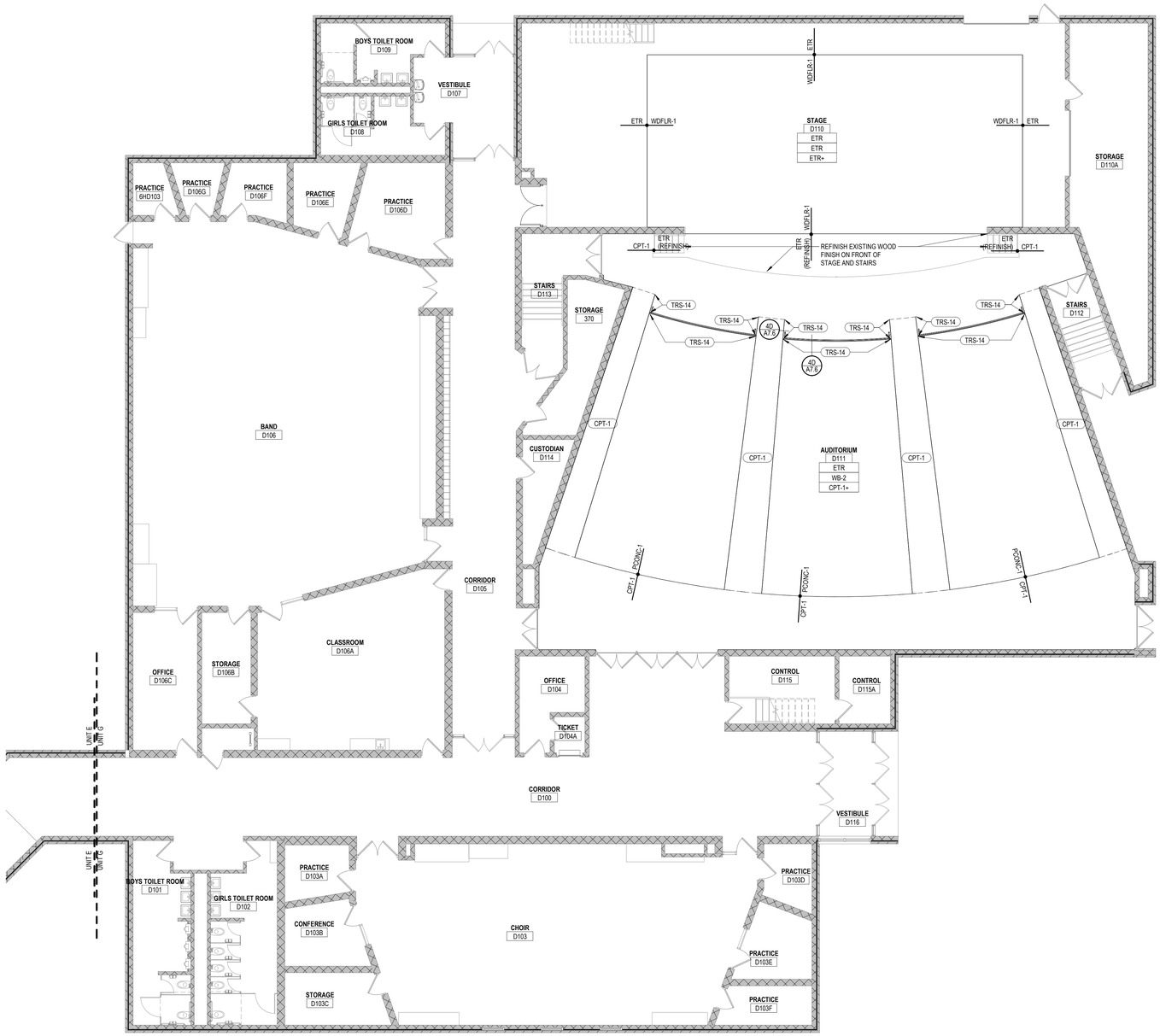

5A A9.1G FIRST FLOOR FINISH PLAN - UNIT G

Scale: 1/8" = 1'-0"

GENERAL FINISH NOTES

FINISH PLAN LEGEND

ROOM NUMBER — ROOM NAME 101
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WALL BASE FINISH — WB+
FLOOR FINISH — FF+

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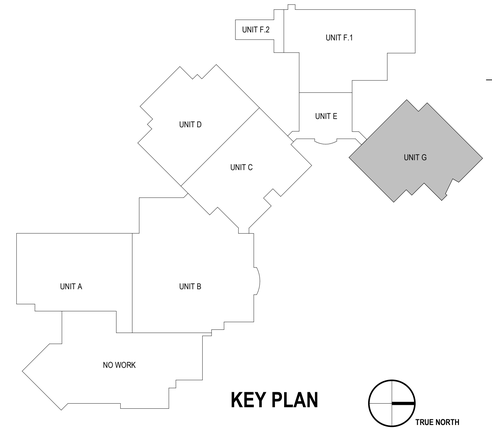
KEYNOTE LEGEND

CPT-1	CARPET - SEE INTERIOR FINISH LEGEND
TRS-14	TRANSITION STRIP (NOSING) - SEE INTERIOR FINISH LEGEND



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Milwaukee, Wisconsin 53204
T: 414.226.0200
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UNIT G - FIRST FLOOR FINISH PLAN

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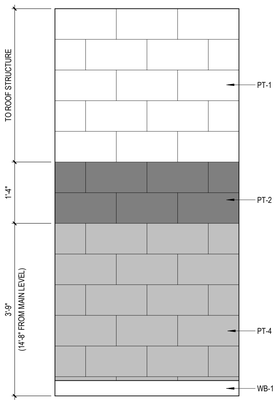


5E A9.2F.1 MEZZANINE PAINT STRIPING

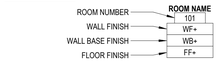
Scale: 3/4" = 1'-0"

KEYNOTE LEGEND

PT-2	PAINT - SEE INTERIOR FINISH LEGEND
PTE-2A	PAINT EXISTING DOOR AND FRAME PT-2
PTE-2B	PAINT EXISTING RAILING, STAIR STRINGER AND STAIR TREADS PT-2, PAINT VISION STRIP ON STAIR TREADS

GENERAL FINISH NOTES

FINISH PLAN LEGEND



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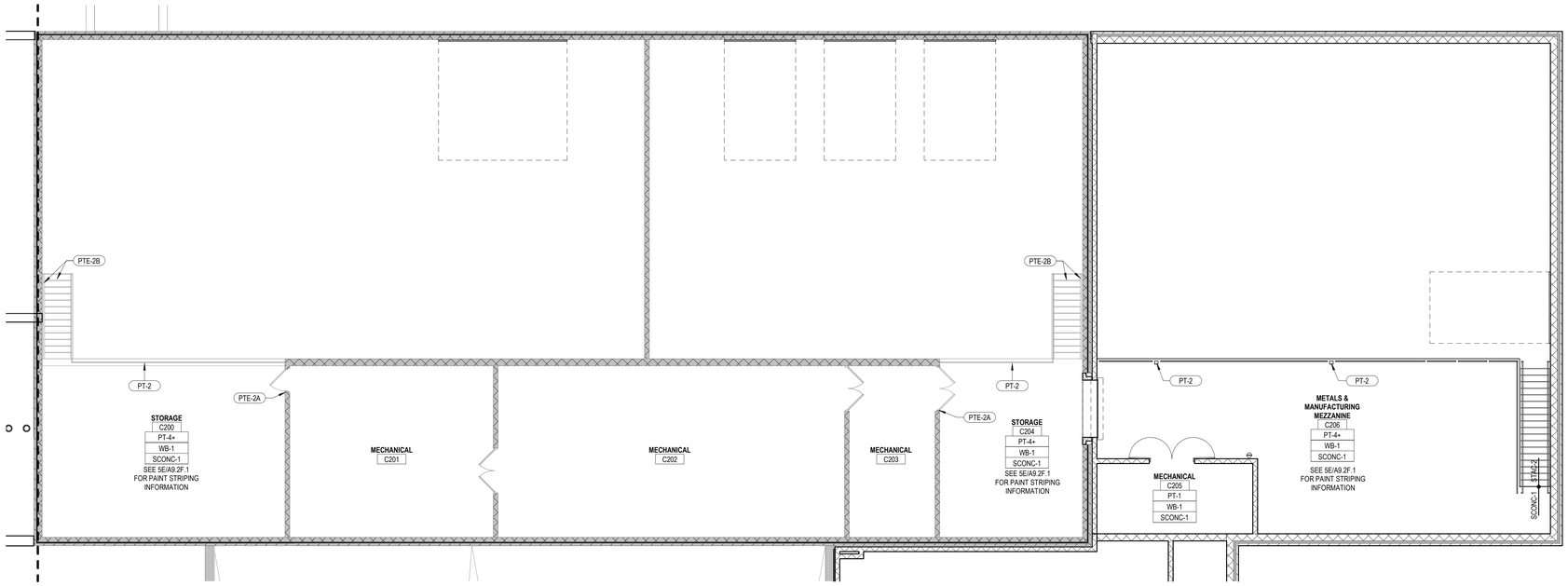
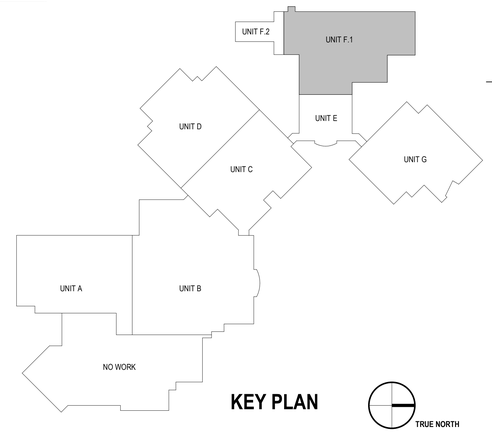


3C A9.2F.1 MEZZANINE FINISH PLAN - UNIT F.1

Scale: 1/8" = 1'-0"



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RENDERING - METALS LAB C120



RENDERING - METALS LAB C120



RENDERING - FAB LAB CLASSROOM C109



RENDERING - GYM ENTRY A105



A105RENDERING - CAFETERIA ENTRY HALLWAY A105



RENDERING - FCS LAB B135



RENDERING - CAFETERIA HALLWAY A105



RENDERING - CAFETERIA EXPANSION A100F



RENDERING - CAFETERIA A100

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Sheet Number:
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RENDERING - TECH ED ADDITION



RENDERING - FOOD SERVICE ADDITION



RENDERING - FOOD SERVICE ADDITION



RENDERING - TECH ED ADDITION



RENDERING - TECH ED ADDITION



RENDERING - TECH ED ADDITION



RENDERING - TECH ED ADDITION



RENDERING - GREENHOUSE ADDITION



RENDERING - GREENHOUSE ADDITION

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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

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3705

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REFRENCE VIEWS - EXTERIOR

Sheet Number:
R2.0

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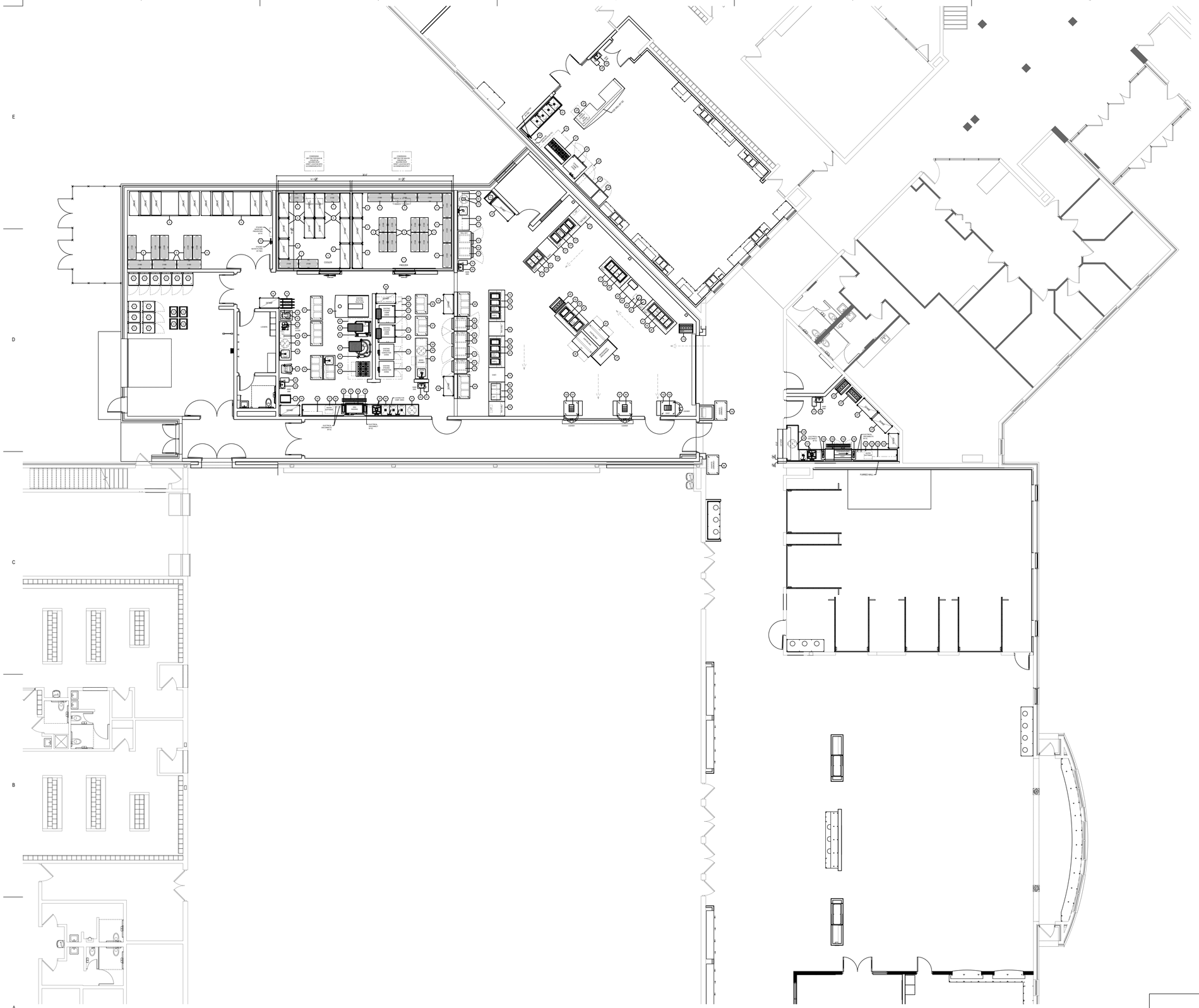
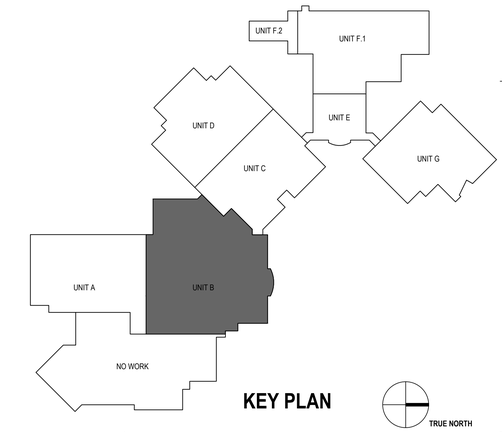


1 FOODSERVICE EQUIPMENT OVERALL PLAN
SCALE: 1/8"=1'-0"



KEY PLAN

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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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FOODSERVICE EQUIPMENT OVERALL PLAN

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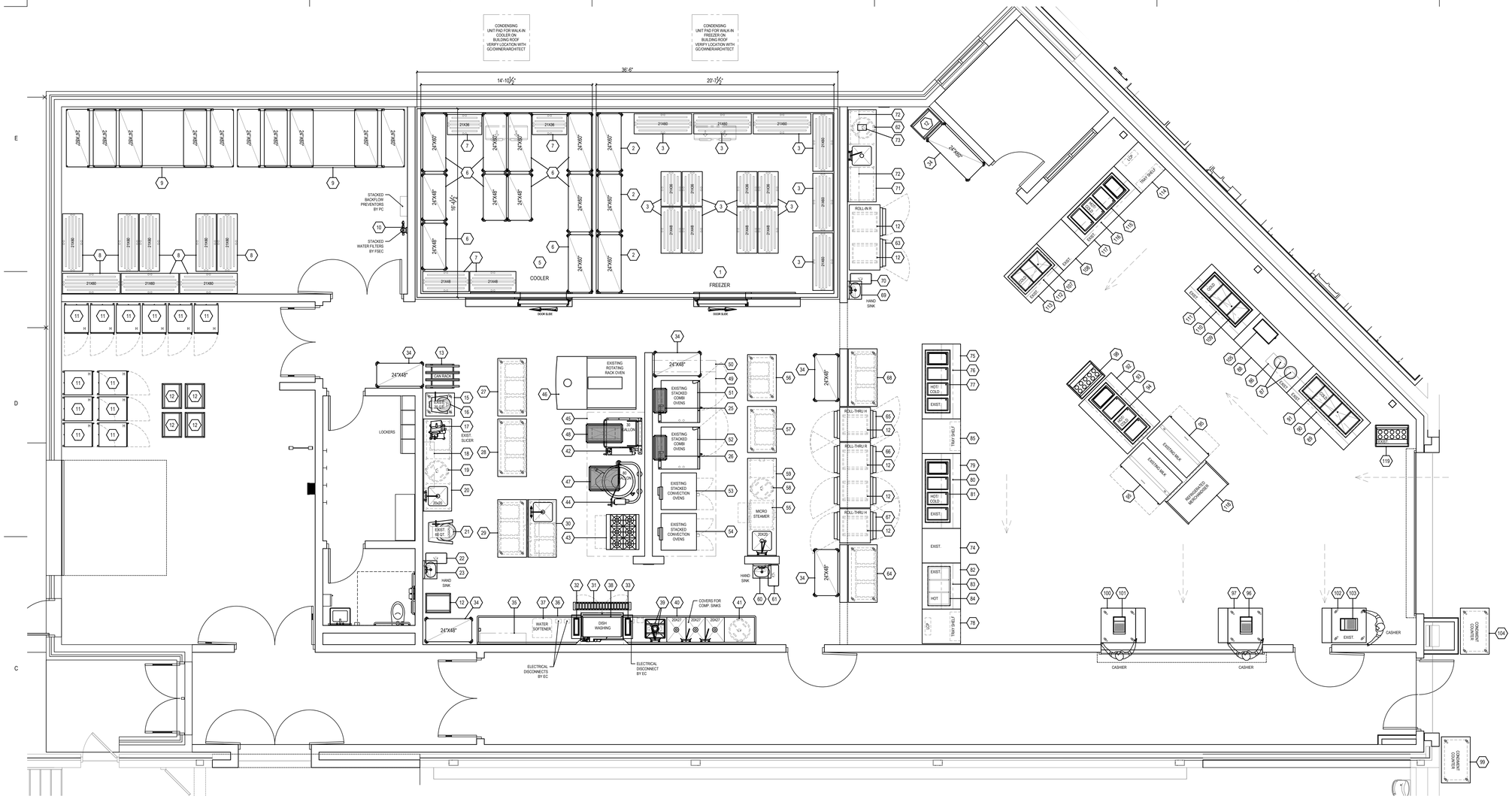


1 FOODSERVICE EQUIPMENT PLAN

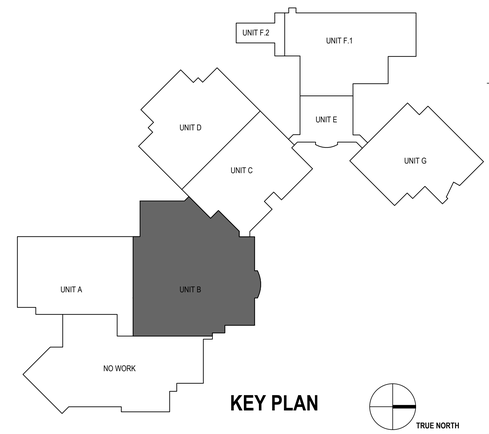
SCALE: 1/4"=1'-0"

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
1	1	WALK-IN FREEZER	
2	3	WALK-IN FREEZER SHELVING	
3	14	WALK-IN FREEZER DUNNAGE RACK	
4	-	SPARE NUMBER	
5	1	WALK-IN COOLER	
6	10	WALK-IN COOLER SHELVING	
7	4	WALK-IN COOLER DUNNAGE RACK	
8	8	DUNNAGE RACKS	
9	2	TRACK SHELVING ASSEMBLY	
10	3	STACKED WATER FILTERS	
11	12	HOT HOLDING CABINET	
12	12	SPEED RACK	
13	1	CAN RACK	
14	-	SPARE NUMBER	
15	1	MOBILE EQUIPMENT STAND	
16	1	20 QT. MIXER	EXISTING
17	1	SLICER	EXISTING
18	1	WALL SHELF	
19	1	TRASH CONTAINER (BTUTE)	BY OWNER
20	1	WORKTABLE W/ SINK	
21	1	60 QT. MIXER	EXISTING
22	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
23	1	HAND SINK	
24	-	SPARE NUMBER	
25	1	FLOOR TROUGH	
26	1	FLOOR TROUGH	
27	1	MOBILE WORKTABLE	
28	1	MOBILE WORKTABLE	
29	1	MOBILE WORKTABLE	
30	1	WORKTABLE W/ SINK & OVERSHELF	
31	1	MOBILE RACK RETURN	
32	1	DISHMACHINE VENT DUCT (UNLOAD END)	
33	1	DISHMACHINE VENT DUCT (LOAD END)	
34	6	STORAGE SHELVING	
35	1	WALL SHELF	
36	1	CLEAN DISHTABLE	
37	1	WATER SOFTENER	
38	1	DISHMACHINE	
39	1	DISPOSER W/ PRE-RINSE ASSEMBLY	
40	1	SOILED DISHTABLE W/ COMPARTMENT SINKS	
41	1	TRASH CONTAINER (BRUTE)	BY OWNER
42	1	30 GALLON TILT SKILLET W/ DRAIN DRAWER	
43	1	OPEN BURNER RANGE	
44	1	80 GALLON TILT KETTLE	
45	1	EXHAUST HOOD	
46	1	ROTATING RACK OVEN	EXISTING
47	1	FLOOR TROUGH	
48	1	FLOOR TROUGH	
49	1	EXHAUST HOOD	
50	1	FIRE SUPPRESSION SYSTEM	
51	1	STACKED COMBI OVENS	EXISTING
52	1	STACKED COMBI OVENS	EXISTING
53	1	STACKED CONVECTION OVENS	EXISTING
54	1	STACKED CONVECTION OVENS	EXISTING
55	1	MICROWAVE / STEAMER	
56	1	MOBILE WORKTABLE	
57	1	MOBILE WORKTABLE	
58	1	TRASH CONTAINER (BRUTE)	BY OWNER
59	1	WORKTABLE W/ SINK	
60	1	HAND SINK	

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
61	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
62	1	TRASH CONTAINER (BRUTE)	
63	1	ROLL-IN REFRIGERATOR	
64	1	MOBILE WORKTABLE	
65	1	ROLL-THRU HEATED CABINET	
66	1	ROLL-THRU REFRIGERATOR	
67	1	ROLL-THRU HEATED CABINET	
68	1	MOBILE WORKTABLE	
69	1	HAND SINK	
70	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
71	1	WORKTABLE W/ SINK	
72	2	WALL SHELF	
73	1	CAN OPENER	
74	1	SERVING COUNTER	EXISTING
75	1	SERVING COUNTER	EXISTING
76	1	SNEEZE GUARD	EXISTING
77	1	DROP-IN HOT/COLD WELLS	EXISTING
78	1	SERVING COUNTER W/ LOAD CENTER PANEL	
79	1	SERVING COUNTER	EXISTING
80	1	SNEEZE GUARD	EXISTING
81	1	DROP-IN HOT/COLD WELLS	EXISTING
82	1	SERVING COUNTER	EXISTING
83	1	SNEEZE GUARD	EXISTING
84	1	DROP-IN HOT WELLS	EXISTING
85	1	SERVING COUNTER	
86	1	SNEEZE GUARD	EXISTING
87	2	DROP-IN SOUP WELLS	EXISTING
88	1	SERVING COUNTER	
89	1	SERVING COUNTER	EXISTING
90	1	SNEEZE GUARD	EXISTING
91	1	DROP-IN COLD WELLS	EXISTING
92	1	SERVING COUNTER	
93	1	SNEEZE GUARD	
94	1	DROP-IN HOT/COLD WELLS	
95	2	MILK COOLER	EXISTING
96	1	POS SYSTEM	BY OWNER
97	1	POS COUNTER	
98	1	TRAY & UTENSIL CART	
99	1	CONDIMENT COUNTER	
100	1	POS COUNTER	
101	1	POS SYSTEM	BY OWNER
102	1	POS COUNTER	EXISTING
103	1	POS SYSTEM	BY OWNER
104	1	CONDIMENT COUNTER	
105	1	FOOD WARMER	
106	-	SPARE NUMBER	
107	1	DROP-IN COLD WELLS	EXISTING
108	1	SERVING COUNTER	EXISTING
109	1	DROP-IN COLD WELLS	EXISTING
110	1	SNEEZE GUARD	EXISTING
111	1	SERVING COUNTER	EXISTING
112	1	SNEEZE GUARD	EXISTING
113	1	SERVING COUNTER	EXISTING
114	1	SERVING COUNTER W/ LOAD CENTER PANEL	
115	1	DROP-IN HOT/COLD WELLS	EXISTING
116	1	SNEEZE GUARD	EXISTING
117	1	SERVING COUNTER	EXISTING
118	1	REFRIGERATED MERCHANDISER	
119	1	TRAY & UTENSIL CART	EXISTING



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BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
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FOODSERVICE EQUIPMENT PLAN

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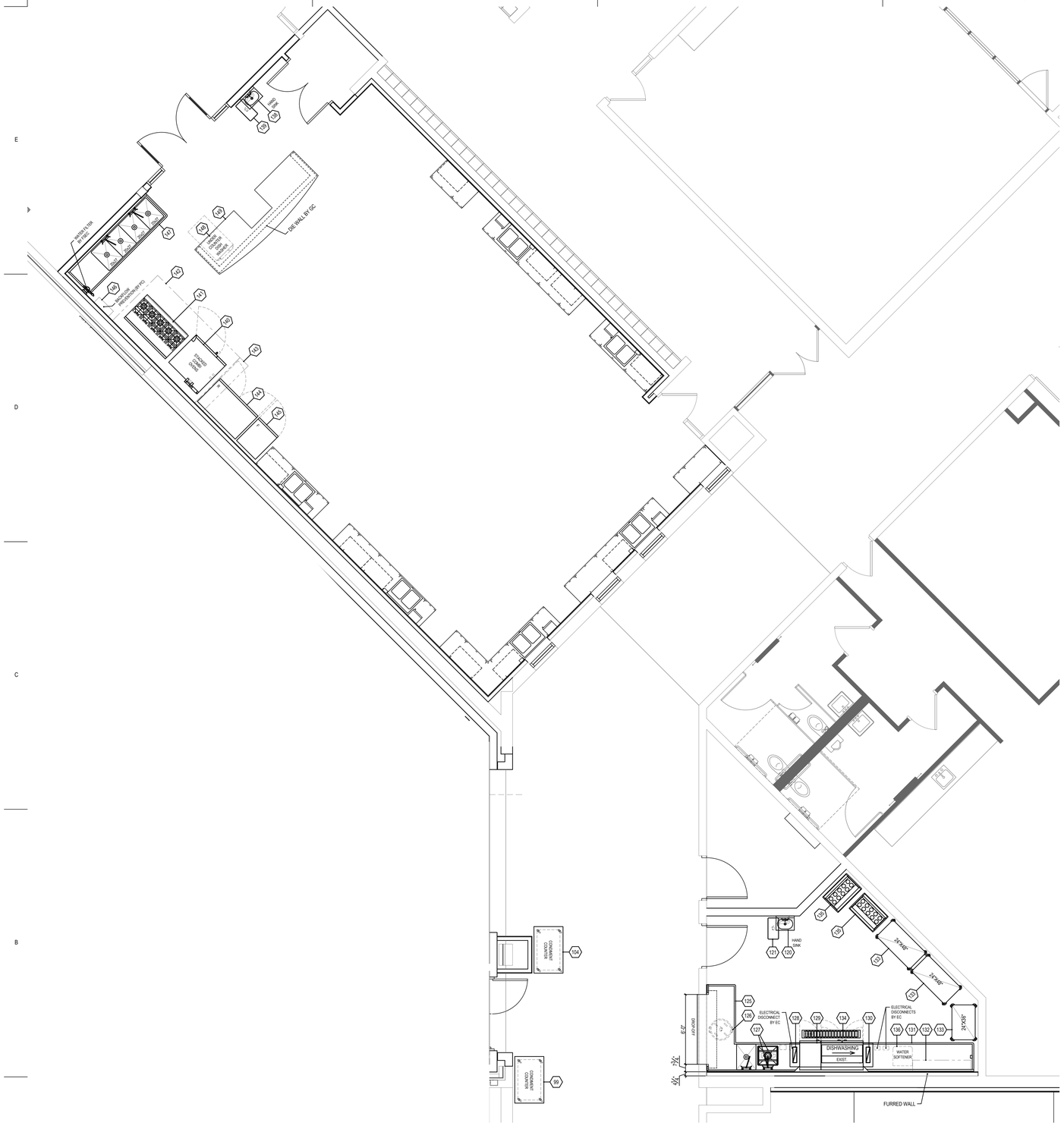
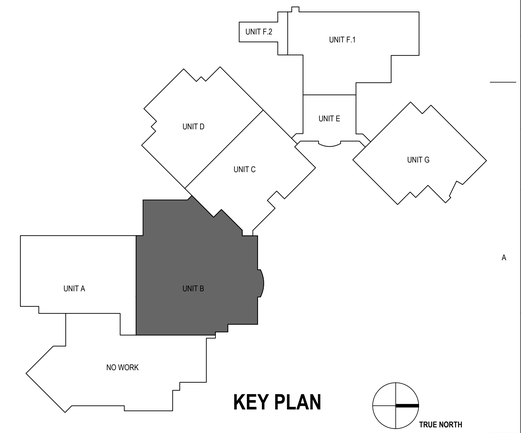


1 FOODSERVICE EQUIPMENT PLAN

SCALE: 1/4"=1'-0"

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
120	1	HAND SINK	
121	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
122	-	SPARE NUMBER	
123	-	SPARE NUMBER	
124	-	SPARE NUMBER	
125	1	SOILED DISHTABLE W/ COMPARTMENT SINK	
126	1	TRASH CONTAINER (BRUTE)	BY OWNER
127	1	DISPOSER W/ PRE-RINSE ASSEMBLY	
128	1	VENT DUCT (LOAD END)	
129	1	DISHMACHINE	EXISTING
130	1	VENT DUCT (UNLOAD END)	
131	1	CLEAN DISHTABLE	
132	1	WALL SHELF	
133	3	STORAGE SHELVING	
134	1	MOBILE RACK RETURN	EXISTING
135	2	TRAY CARTS	ALTERNATE LOCATIONS
136	1	WATER SOFTENER	
137	-	SPARE NUMBER	
138	1	HAND SINK	
139	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
140	1	STACKED COMBI OVENS	
141	1	OPEN BURNER RANGE	
142	1	EXHAUST HOOD	
143	1	FIRE SUPPRESSION SYSTEM	
144	1	REACH-IN REFRIGERATOR	
145	1	REACH-IN FREEZER	
146	1	WATER FILTER	
147	1	4-COMPARTMENT SINK	
148	1	UNDERCOUNTER DISHWASHER	BY OWNER
149	1	COUNTER TOP AND LEGS	



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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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FOODSERVICE EQUIPMENT PLAN

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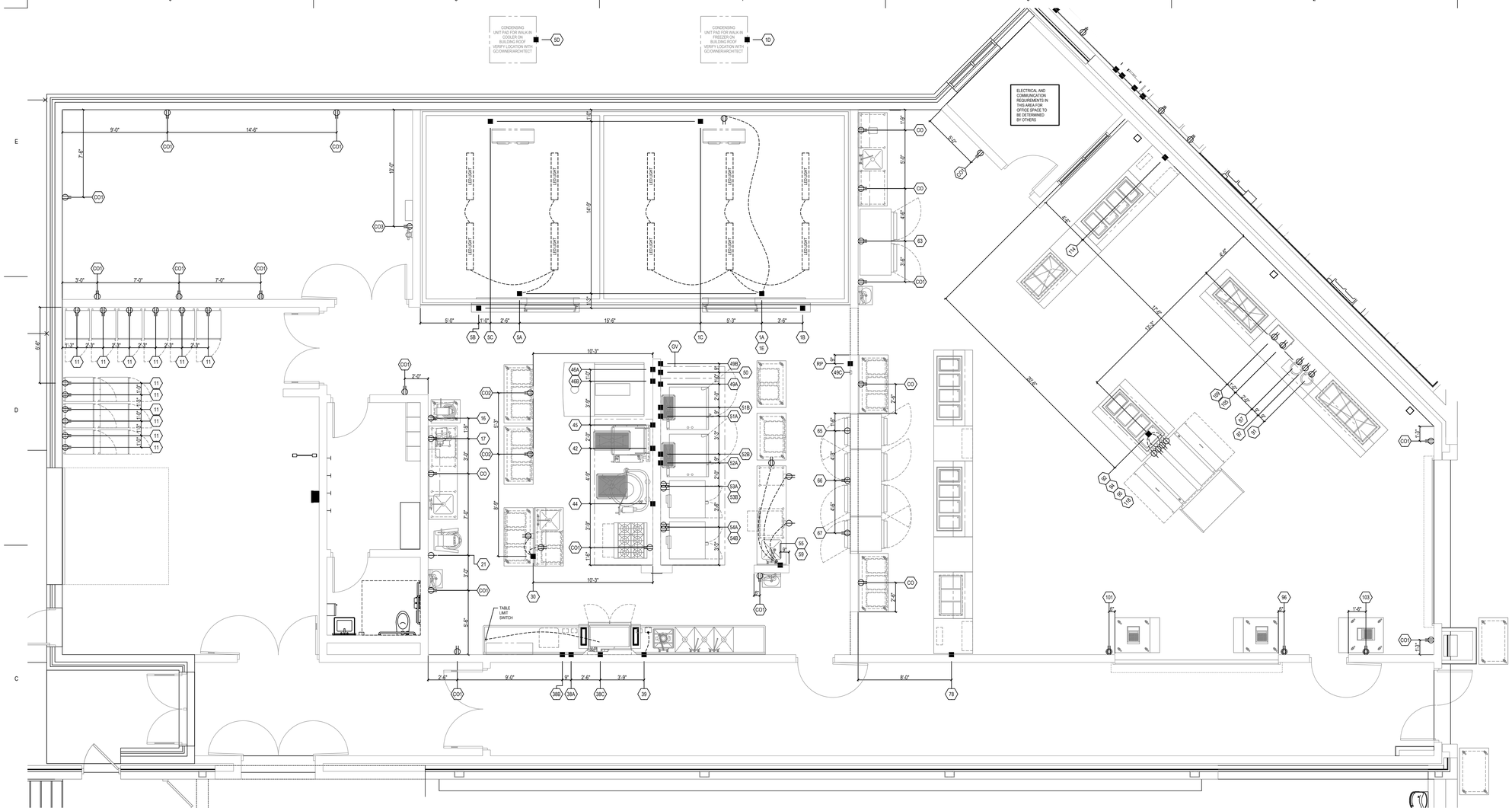
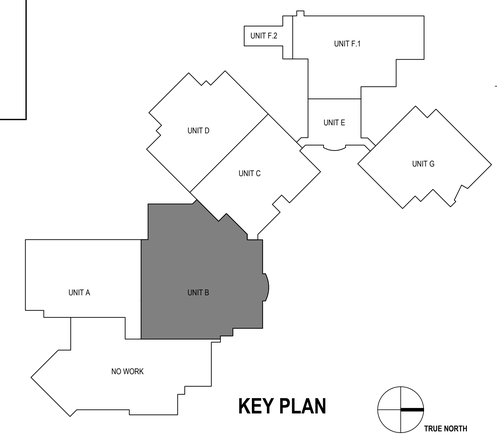


1 FOODSERVICE ELECTRICAL PLAN

SCALE: 1/4"=1'-0"

ELECTRICAL SYMBOLS & ABBREVIATIONS		
⊖	SGR	SINGLE GROUNDED RECEPTACLE
⊖	DGR	DUPLEX GROUNDED RECEPTACLE
⊖	DDGR	DEDICATED DUPLEX GROUNDED RECEPTACLE
■	JB	JUNCTION BOX
$	SW	SWITCH
⊛	SPO	SPECIAL PURPOSE OUTLET
▼	DIR	DIRECT WIRED CONNECTION
•	ECS	ELECTRICAL CONDUIT STUB UP
▽	TEL	TELEPHONE
	GFCI	GROUND FAULT CIRCUIT INTERRUPT
	CO	CONVENIENCE OUTLET
	KW	KILOWATTS
	V	VOLT
	HP	HORSEPOWER
	AFF	ABOVE FINISHED FLOOR
	WFA	WIRED FROM ABOVE
	EC	ELECTRICAL CONTRACTOR



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REFER TO SHEET FS200A FOR ELECTRICAL SCHEDULE

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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FOODSERVICE ELECTRICAL PLAN

Sheet Number:
FS200

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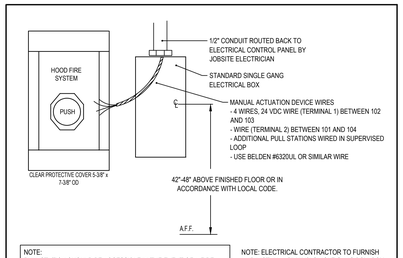


NOTE:
PULL STATION SHOULD BE ACCESSIBLE IN THE EVENT OF A FIRE, LOCATED IN A PATH OF EGRESS, AND CLEARLY IDENTIFY THE HAZARD PROTECTED

NOTE: ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A 2"X4"X2" SINGLE GANG BOX. BOX TO BE RECESSED IN SHEET ROCK 1/4".

TANK MANUAL ACTIVATION DETAIL
NOT TO SCALE

ELECTRICAL ROUGH-INS

ITEM	QTY	CONNECTION(S)
1A	1	120V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER LIGHTS AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO CONNECT AND INSTALL ALL LIGHT FIXTURES.
1B	1	120V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER DOOR HEATER. 20.0 AMP CIRCUIT.
1C	1	208-230V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER COIL. (3.0 FAN AMPS, 27.4 HEATER AMPS).
1D	1	208-230V/3 J-BOX FOR WALK-IN FREEZER COMPRESSOR. 6.0 HP. 21.5 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT. EXACT LOCATION TO BE VERIFIED WITH OWNER/ARCHITECT. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE BLOWER COIL UNIT. EC TO VERIFY FINAL LOCATION OF TIME CLOCK WITH FSEC AND INTERWIRE TIME CLOCK, SOLENOID AND THERMOSTAT. * SEE REMOTE COMPRESSOR NOTES THIS PAGE.
1E	1	120V/1 J-BOX FROM ABOVE FOR DRAIN LINE HEAT TAPE DGR. 20.0 AMP CIRCUIT. EC TO CONNECT TO DGR LOCATED INSIDE WALK-IN FREEZER BOX MOUNTED TO WALL BEHIND COIL.
5A	1	120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER LIGHTS AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO CONNECT AND INSTALL ALL LIGHT FIXTURES.
5B	1	120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER DOOR HEATER. 20.0 AMP CIRCUIT.
5C	1	120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER COIL. 2.7 AMPS.
5D	1	208-230V/3 J-BOX FOR WALK-IN COOLER COMPRESSOR. 2-1/2 HP. 12.3 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT. EXACT LOCATION TO BE VERIFIED WITH OWNER/ARCHITECT. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE BLOWER COIL UNIT. EC TO VERIFY FINAL LOCATION OF TIME CLOCK WITH FSEC AND INTERWIRE TIME CLOCK, SOLENOID AND THERMOSTAT. * SEE REMOTE COMPRESSOR NOTES THIS PAGE.
11	12	120V/1 DGR 48" AFF FOR HOT HOLDING CABINET. 1.9 KW. 16.0 AMPS. NEMA 5-20P.
16	1	120V/1 DGR 48" AFF FOR EXISTING 20 QUART MIXER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
17	1	120V/1 DGR 48" AFF FOR EXISTING SLICER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
21	1	208V/3 SGR 48" AFF FOR EXISTING 60 QUART MIXER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
30	1	120V/1 J-BOX STUB-UP 6" AFF FOR WORKTABLE W/ SINK. EC TO CONNECT TO (2)120V/1 RECEPTACLES MOUNTED IN BACKSPLASH OF TABLE BY FABRICATOR FOR (2)CONVENIENCE OUTLETS. (2)20.0 AMP CIRCUITS.
38A	1	480V/3 J-BOX 18" AFF. FOR DISHMACHINE MOTORS & ELECTRIC TANK HEAT. 27.9 AMPS. 40.0 AMP CIRCUIT. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EC TO INTERWIRE FROM VENT FAN CONTROL CONNECTION AND DISHMACHINE TO EXHAUST FAN ON HOOD. FAN(S), DUCTWORK, ETC PROVIDED BY OTHERS - EC TO VERIFY EXACT REQUIREMENTS. EC TO INTERWIRE FROM DISHMACHINE TO TABLE LIMIT SWITCH.
38B	1	480V/3 J-BOX 18" AFF FOR DISHMACHINE BUILT-IN BOOSTER. 40.1 AMPS. 50.0 AMP CIRCUIT. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES.
38C	1	J-BOX 66" AFF FOR VENT FAN CONTROL CONNECTION. LOW WATTAGE FAN CONTROL CONTACT (NOT FOR LINE VOLTAGE) AVAILABLE WITHIN DISHWASHER.
39	1	208V/3 J-BOX 18" AFF FOR DISPOSER. 2.0 HP. 6.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODE(S). EC TO CONNECT DISPOSER, SOLENOID VALVE AND SWITCH.
42	1	120V/1 J-BOX 18" AFF FOR 30 GALLON TILT SKILLET. 5.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONECT OR CORD, PLUG & RECEPTACLE PER LOCAL CODES.
44	1	120V/1 J-BOX 18" AFF FOR 80 GALLON TILT KETTLE. 14.7 KW. 40.9 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONECT PER LOCAL CODES.
45	1	120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX, CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. HVAC DATA ON SEPARATE SHEET. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
46A	1	208V/3 J-BOX 90" AFF FOR EXISTING ROTATING RACK OVEN. 4.2 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
46B	1	120V/1 J-BOX 90" AFF FOR EXISTING ROTATING RACK OVEN CONTROLS. 15.0 AMP DEDICATED CIRCUIT. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
49A	1	120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX, CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. HVAC DATA ON SEPARATE SHEET. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
49B	1	2 GANG J-BOX 50" AFF. FOR CONTROL PAD (PROVIDED BY CAPTIVE AIRE) FOR EXHAUST HOOD LIGHTS AND FAN(S) MOUNTED BY EC. EC TO ROUTE CAT-5 CABLE BETWEEN CONTROL PAD AND CONTROL BOX. HOOD FAN(S) BY HVAC. EC TO VERIFY LOCATION AND REQUIREMENTS.
49C	1	SINGLE GANG BOX FOR ROOM TEMPERATURE SENSOR FACE MOUNTED TO WALL BY EC JUST BELOW CEILING. EC TO RUN TWO CONDUCTOR TO CAPTIVE AIRE CONTROL BOX.
50	1	120V/1 J-BOX FROM ABOVE FOR FIRE SUPPRESSION SYSTEM. 20.0 AMP CIRCUIT. EC TO INTERCONNECT WITH MICRO SWITCH AT FIRE SUPPRESSION CABINET AND SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER EXHAUST HOOD. ALL SHUNT TRIP BREAKERS AND RELATED WIRING TO BE FURNISHED AND INSTALLED BY EC. EC TO INTERWIRE BETWEEN FIRE SYSTEM CABINET AND HOOD CONTROL CABINET (120V).

ELECTRICAL ROUGH-INS

ITEM	QTY	CONNECTION(S)
50	1	120V/1 J-BOX FROM ABOVE FOR FIRE SUPPRESSION SYSTEM. 20.0 AMP CIRCUIT. EC TO INTERCONNECT WITH MICRO SWITCH AT FIRE SUPPRESSION CABINET AND SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER EXHAUST HOOD. ALL SHUNT TRIP BREAKERS AND RELATED WIRING TO BE FURNISHED AND INSTALLED BY EC. EC TO INTERWIRE BETWEEN FIRE SYSTEM CABINET AND HOOD CONTROL CABINET (120V).
51A	1	208V/1 J-BOX 24" AFF FOR EXISTING COMBI OVEN (LOWER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
51B	1	208V/1 J-BOX 48" AFF FOR EXISTING COMBI OVEN (UPPER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
52A	1	208V/1 J-BOX 24" AFF FOR EXISTING COMBI OVEN (LOWER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
52B	1	208V/1 J-BOX 48" AFF FOR EXISTING COMBI OVEN (UPPER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
53A	1	120V/1 DGR 18" AFF FOR EXISTING CONVECTION OVEN (BOTTOM SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
53B	1	120V/1 DGR 48" AFF FOR EXISTING CONVECTION OVEN (UPPER SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
54A	1	120V/1 DGR 18" AFF FOR EXISTING CONVECTION OVEN (BOTTOM SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
54B	1	120V/1 DGR 48" AFF FOR EXISTING CONVECTION OVEN (UPPER SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
55	1	208V/1 SGR FOR MICROWAVE STEAMER. 5.7 KW. 27.4 AMPS. NEMA 6-30P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 59.
59	1	120/208V/1 J-BOX 18" AFF FOR WORKTABLE W/ SINK. EC TO CONNECT TO (2)120V/1 RECEPTACLES; (2)20.0 AMP CIRCUITS AND (1)208V/1 RECEPTACLE; 30.0 AMP CIRCUIT MOUNTED TO UNDERSIDE OF TABLE BY FABRICATOR FOR (2) CONVENIENCE OUTLETS AND (1) RECEPTACLE FOR ITEM 55.
63	1	120V/1 DGR 48" AFF FOR ROLL-IN REFRIGERATOR. 1/2 HP. 11.4 AMPS. NEMA 5-15P.
65	1	120/208V/1 SGR 90" AFF FOR PASS-THRU HOT CABINET. 7.8 AMPS. NEMA L14-20P.
66	1	120V/1 DGR 90" AFF FOR ROLL-THRU REFRIGERATOR. 1/2 HP. 13.4 AMPS. NEMA 5-20P.
67	1	120/208V/1 SGR 90" AFF FOR PASS-THRU HOT CABINET. 7.8 AMPS. NEMA L14-20P.
78	1	J-BOX 18" AFF FOR MODULAR SERVING COUNTERS AND EQUIPMENT. EC TO CONNECT TO PRE-WIRED 120/208V/3 100.0 AMP CIRCUIT BREAKER PANEL IN COUNTER. ALL FIELD CONNECTIONS AND SPLICES IN COUNTER BY EC. * REFER TO SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND LOAD PLATE SCHEDULES.
87	2	120V/1 DOG HOUSE FOR EXISTING DROP-IN SOUP WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
91	1	120V/1 DOG HOUSE FOR EXISTING DROP-IN COLD WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
92	1	120/208V/1 J-BOX STUB-UP 6" AFF FOR SERVING COUNTER. EC TO CONNECT TO (2)120V/1 RECEPTACLES; (2)20.0 AMP CIRCUITS; (1)208V/1 RECEPTACLE; 20.0 AMP CIRCUIT AND (1)120/208V/1 RECEPTACLE; 20.0 AMP CIRCUIT MOUNTED TO UNDERSIDE OF TABLE BY FABRICATOR FOR ITEMS 94, 95 AND 118.
94	1	120/208V/1 FOR DROP-IN HOT/COLD WELLS. 12.8 AMPS. NEMA 14-20P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92.
95	2	120V/1 DOG FOR EXISTING MILK COOLER. 16.0 AMPS. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
96	1	120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
101	1	120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
103	1	120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
105	1	120V/1 DOG HOUSE FOR FOOD WARMER. 10.0 AMPS. NEMA 5-15P.
109	1	120V/1 DOG HOUSE FOR EXISTING DROP-IN COLD WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
114	1	J-BOX 18" AFF FOR MODULAR SERVING COUNTERS AND EQUIPMENT. EC TO CONNECT TO PRE-WIRED 120/208V/3 100.0 AMP CIRCUIT BREAKER PANEL IN COUNTER. ALL FIELD CONNECTIONS AND SPLICES IN COUNTER BY EC. * REFER TO SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND LOAD PLATE SCHEDULES.
118	1	208V/1 FOR REFRIGERATED MERCHANDISER. 2.826 KW. 16.0 AMPS. NEMA 6-20P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92.
CO	5	120V/1 GFCI DGR 48" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT.
CO1	15	120V/1 GFCI DGR 18" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT.
CO2	2	120V/1 SUSPENDED GFCI DGR FROM ABOVE DOWN TO 66" AFF. 20.0 AMP CIRCUIT. * ALSO REFER TO SUSPENDED OUTLET DETAIL ON SHEET FS200A.
CO3	1	120V/1 GFCI DGR 72" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT.
GV	1	120V/1 ELECTRONIC GAS VALVE. EC TO WIRE FROM SYSTEM CONTROL PANEL TO ELECTRONIC GAS SOLENOID VALVE.
RP	1	SINGLE GANG BOX FOR REMOTE MANUAL PULL. SEE DETAIL SHEET FS200A. EC TO INTERWIRE TO CAPTIVE AIRE CONTROL BOX.

REMOTE CONDENSING UNIT NOTES

- EXACT LOCATION OF CONDENSING UNITS TO BE VERIFIED WITH ARCHITECT/OWNER.
- EC TO FURNISH J-BOX AND DISCONNECT FOR COOLER/FREEZER CONDENSING UNITS.
- ALL ELECTRICAL INTER-WIRING BY EC. THIS WORK INCLUDES; HARDWIRING EACH CONDENSING UNIT TO ITS RESPECTIVE BLOWER COIL, INTER-WIRING OF LIGHTS, AND DOOR HEATER, INTER-WIRING OF THERMOSTAT AND SOLENOID, INTER-WIRING OF BLOWER COIL AND TIME CLOCK.
- ALSO REFER TO ELECTRICAL NOTE #5.
- PROPER VENTILATION AND COOLING MUST BE PROVIDED FOR REMOTE CONDENSING UNIT TO RUN AT FULL CAPACITY AND MAINTAIN VALID WARRANTIES.
- LIGHT BULBS PROVIDED BY OWNER.

COMPRESSOR SIZES/ LOADS:
- WALK-IN FREEZER (ITEM 1D) - 208-230V/3 6.0 HP. 21.5 AMPS.
- WALK-IN COOLER (ITEM 5D) - 208-230V/3 2-1/2 HP. 12.3 AMPS.

ELECTRICAL CONTRACTORS NOTES

E1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOODSERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTS PLANS, CONSULTANT OR OWNER.

E2. ELECTRICAL CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

E3. THE FOODSERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR FURNISHING ELECTRICAL APPURTENANCES SUCH AS LINE OR DISCONNECT SWITCHES, SAFETY CUTOUTS, CONTROL PANELS, FUSE BOXES, FITTINGS AND INTERWIRING REQUIRED BETWEEN EQUIPMENT AND CONTROL PANELS UNLESS SPECIFIED IN FOODSERVICE EQUIPMENT CONTRACT.

E4. UNLESS OTHERWISE SPECIFIED, THE ELECTRICIAN IS TO FURNISH ALL 208 VOLT CORDS, PLUGS AND RECEPTACLES WHERE NECESSARY. ELECTRICAL CONTRACTOR TO FURNISH ALL LIGHT BULBS REQUIRED FOR EXHAUST HOOD(S) AND/OR WALK-IN COOLERS AND FREEZERS UNLESS OTHERWISE SPECIFIED.

E5. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOODSERVICE EQUIPMENT INCLUDING ALL INTERWIRING REQUIRED FOR WALK-IN COOLERS AND FREEZERS AND THEIR COMPRESSORS, BLOWER FANS, TIMERS, HEATERS AND LIGHTING.

E6. ELECTRICIAN IS TO DO ALL INTERWIRING FOR EXHAUST HOOD LIGHTING, BLOWERS, DAMPERS, AND FIRE SUPPRESSION SYSTEM, INCLUDING THE SUPPLY AND INSTALLATION OF A SHUNT/TRIP BREAKERS FOR EQUIPMENT AND FAN INTERLOCK MECHANISMS AS NEEDED.

E7. ALL ELECTRICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

E8. ALL ELECTRICAL CONDUIT IS TO BE RUN WITHIN WALL SURFACES AND BOXES AND RECEPTACLES ARE TO BE INSET FLUSH WITH WALL SURFACE. SURFACE MOUNTED ELECTRICAL WORK IS NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLAN.

E9. EQUIPMENT MANUFACTURERS SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

E10. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

E11. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY LOCAL CODE.

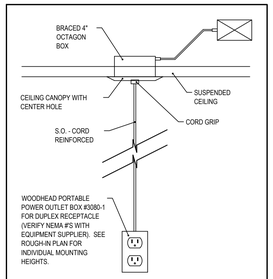
E12. ELECTRICAL CONTRACTOR TO SEAL INSIDE OF CONDUIT W/ SILICONE OR EXPANDABLE FOAM WHERE CONDUIT PENETRATES WALK-IN COOLER/FREEZER WALLS. TYPICAL.

ELECTRICAL NOTES

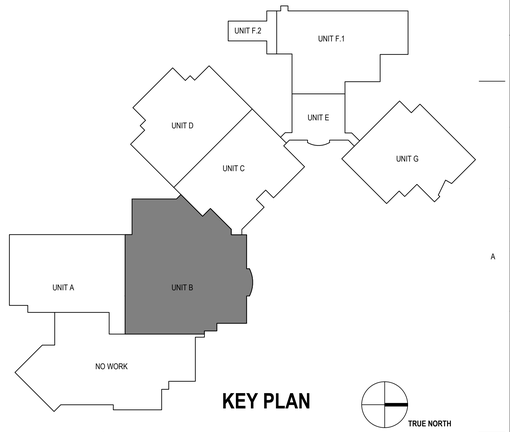
ELECTRICAL CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE ELECTRICAL CODES.
ELECTRICAL CONTRACTOR TO READ AND REVIEW 11 40 00 SPECIFICATIONS.

ELECTRICAL NOTES

ELECTRICAL CONTRACTOR TO INSTALL CORD AND PLUGS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR.



CEILING MOUNTED OUTLET
NOT TO SCALE



KEY PLAN

TRUE NORTH

REFER TO SHEET FS200 FOR ELECTRICAL PLAN

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
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WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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Sheet Title:
FOODSERVICE ELECTRICAL SCHEDULE

Sheet Number:
FS200A

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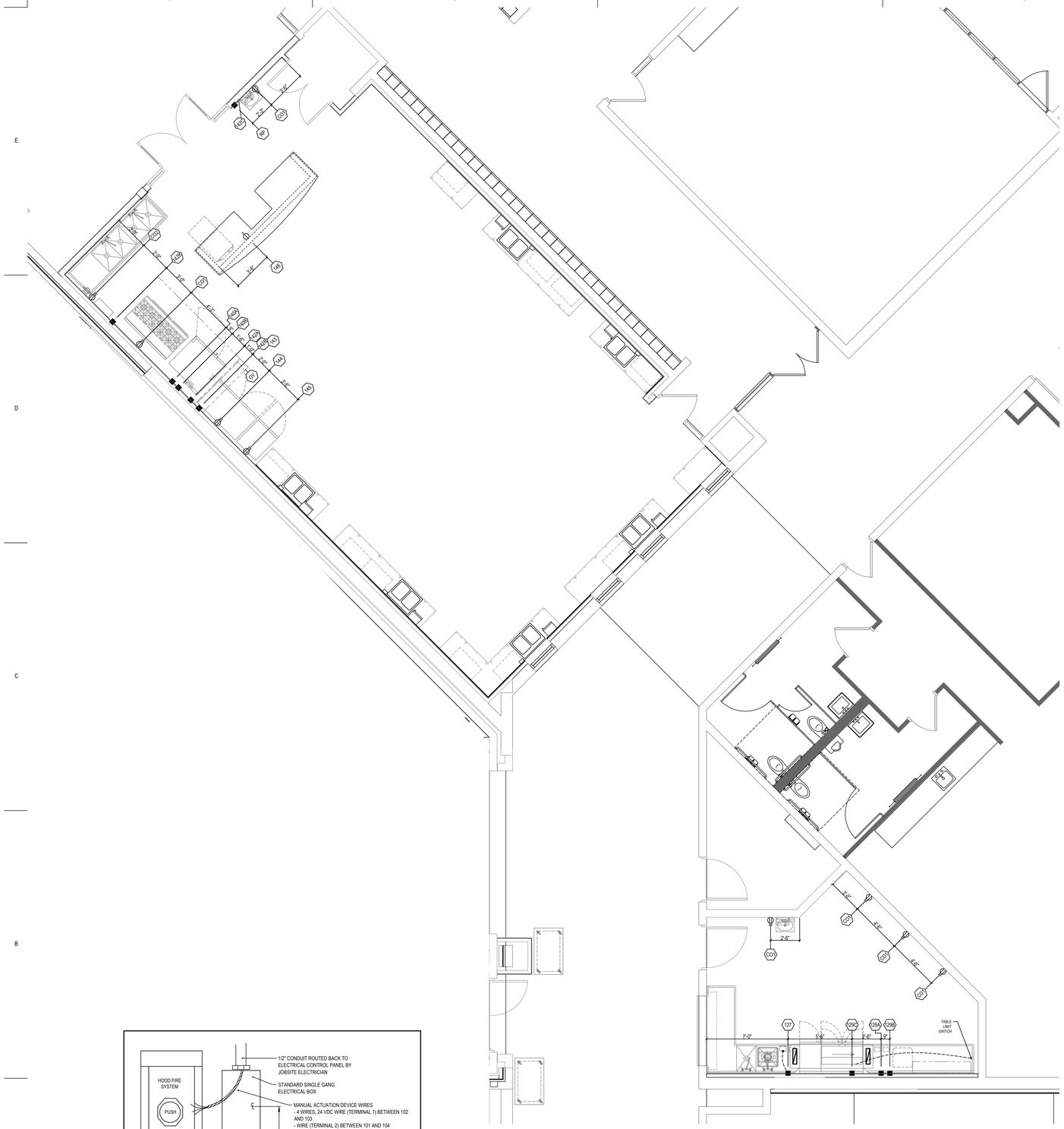
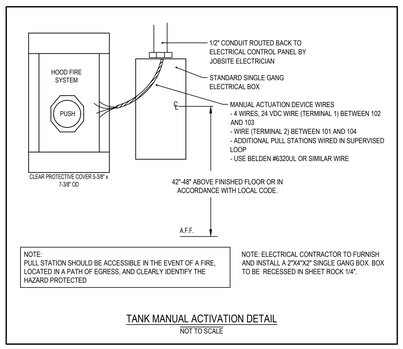


1 FOODSERVICE ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



NOTE:
PULL STATION SHOULD BE ACCESSIBLE IN THE EVENT OF A FIRE, LOCATED IN A PATH OF EGRESS, AND CLEARLY IDENTIFY THE HAZARD PROTECTED

NOTE: ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL A 2"X4"X2" SINGLE GANG BOX. BOX TO BE RECESSED IN SHEET ROCK 1/4".

TANK MANUAL ACTIVATION DETAIL
NOT TO SCALE

ELECTRICAL ROUGH-INS

ITEM	QTY	CONNECTION(S)
127	1	208V/3 J-BOX 18" AFF FOR DISPOSER. 2.0 HP. 6.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODE(S). EC TO CONNECT DISPOSER, SOLENOID VALVE AND SWITCH.
129A	1	208V/3 J-BOX 18" AFF. FOR EXISTING DISHMACHINE MOTORS & ELECTRIC TANK HEAT. 60.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EC TO INTERWIRE FROM VENT FAN CONTROL CONNECTION AND DISHMACHINE TO EXHAUST FAN ON HOOD. FAN(S), DUCTWORK, ETC PROVIDED BY OTHERS - EC TO VERIFY EXACT REQUIREMENTS. EC TO INTERWIRE FROM DISHMACHINE TO TABLE LIMIT SWITCH. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
129B	1	208V/3 J-BOX 18" AFF FOR EXISTING DISHMACHINE BUILT-IN BOOSTER. 83.9 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
129C	1	J-BOX 66" AFF FOR EXISTING VENT FAN CONTROL CONNECTION. LOW WATTAGE FAN CONTROL CONTACT (NOT FOR LINE VOLTAGE) AVAILABLE WITHIN DISHWASHER. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
140A	1	208V/1 J-BOX 24" AFF FOR COMBI OVEN (LOWER SECTION). 2.0 KW. 9.6 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S).
140B	1	208V/1 J-BOX 48" AFF FOR COMBI OVEN (UPPER SECTION). 2.0 KW. 9.6 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S).
142A	1	120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX, CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. HVAC DATA ON SEPARATE SHEET. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
142B	1	2 GANG J-BOX 50" AFF. FOR CONTROL PAD (PROVIDED BY CAPTIVE AIRE) FOR EXHAUST HOOD LIGHTS AND FAN(S) MOUNTED BY EC. EC TO ROUTE CAT-5 CABLE BETWEEN CONTROL PAD AND CONTROL BOX. HOOD FAN(S) BY HVAC. EC TO VERIFY LOCATION AND REQUIREMENTS.
142C	1	SINGLE GANG BOX FOR ROOM TEMPERATURE SENSOR FACE MOUNTED TO WALL BY EC JUST BELOW CEILING. EC TO RUN TWO CONDUCTOR TO CAPTIVE AIRE CONTROL BOX.
143	1	120V/1 J-BOX FROM ABOVE FOR FIRE SUPPRESSION SYSTEM. 20.0 AMP CIRCUIT. EC TO INTERCONNECT WITH MICRO SWITCH AT FIRE SUPPRESSION CABINET AND SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER EXHAUST HOOD. ALL SHUNT TRIP BREAKERS AND RELATED WIRING TO BE FURNISHED AND INSTALLED BY EC. EC TO INTERWIRE BETWEEN FIRE SYSTEM CABINET AND HOOD CONTROL CABINET (120V).
144	1	120V/1 DGR 48" AFF FOR REACH-IN REFRIGERATOR. 1/2 HP. 8.0 AMPS. NEMA 5-15P.
145	1	120V/1 DGR 48" AFF FOR REACH-IN FREEZER. 3/4 HP. 8.46 AMPS. NEMA 5-15P.
148	1	208-240V/1 SGR 18" AFF FOR UNDERCOUNTER DISHWASHER. 33.7 AMPS. NEMA 6-50P. * UNIT TO BE FURNISHED WITH A CORD AND PLUG. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
CO1	5	120V/1 GFCI DGR 18" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT.
CO2	1	120V/1 GFCI DGR 72" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT.
GV	1	120V/1 ELECTRONIC GAS VALVE. EC TO WIRE FROM SYSTEM CONTROL PANEL TO ELECTRONIC GAS SOLENOID VALVE.
RP	1	SINGLE GANG BOX FOR REMOTE MANUAL PULL. SEE DETAIL THIS SHEET. EC TO INTERWIRE TO CAPTIVE AIRE CONTROL BOX.

ELECTRICAL NOTES

ELECTRICAL CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE ELECTRICAL CODES.
ELECTRICAL CONTRACTOR TO READ AND REVIEW 11 40 00 SPECIFICATIONS.

ELECTRICAL NOTES

ELECTRICAL CONTRACTOR TO INSTALL CORD AND PLUGS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR.

ELECTRICAL SYMBOLS & ABBREVIATIONS

⏀	SGR	SINGLE GROUNDED RECEPTACLE
⏀	DGR	DUPLEX GROUNDED RECEPTACLE
⏀	DDGR	DEDICATED DUPLEX GROUNDED RECEPTACLE
■	JB	JUNCTION BOX
⇆	SW	SWITCH
⏀	SPO	SPECIAL PURPOSE OUTLET
▼	DIR	DIRECT WIRED CONNECTION
●	ECS	ELECTRICAL CONDUIT STUB UP
▽	TEL	TELEPHONE
	GFCI	GROUND FAULT CIRCUIT INTERRUPT
	CO	CONVENIENCE OUTLET
	KW	KILOWATTS
	V	VOLT
	HP	HORSEPOWER
	AFF	ABOVE FINISHED FLOOR
	WFA	WIRED FROM ABOVE
	EC	ELECTRICAL CONTRACTOR

ELECTRICAL CONTRACTORS NOTES

E1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOODSERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECT'S PLANS, CONSULTANT OR OWNER.

E2. ELECTRICAL CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

E3. THE FOODSERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR FURNISHING ELECTRICAL APPURTENANCES SUCH AS LINE OR DISCONNECT SWITCHES, SAFETY CUTOUTS, CONTROL PANELS, FUSE BOXES, FITTINGS AND INTERWIRING REQUIRED BETWEEN EQUIPMENT AND CONTROL PANELS UNLESS SPECIFIED IN FOODSERVICE EQUIPMENT CONTRACT.

E4. UNLESS OTHERWISE SPECIFIED, THE ELECTRICIAN IS TO FURNISH ALL 208 VOLT CORDS, PLUGS AND RECEPTACLES WHERE NECESSARY. ELECTRICAL CONTRACTOR TO FURNISH ALL LIGHT BULBS REQUIRED FOR EXHAUST HOOD(S) AND/OR WALK-IN COOLERS AND FREEZERS UNLESS OTHERWISE SPECIFIED.

E5. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOODSERVICE EQUIPMENT INCLUDING ALL INTERWIRING REQUIRED FOR WALK-IN COOLERS AND FREEZERS AND THEIR COMPRESSORS, BLOWER FANS, TIMERS, HEATERS AND LIGHTING.

E6. ELECTRICIAN IS TO DO ALL INTERWIRING FOR EXHAUST HOOD LIGHTING, BLOWERS, DAMPERS, AND FIRE SUPPRESSION SYSTEM, INCLUDING THE SUPPLY AND INSTALLATION OF A SHUNT-TRIP BREAKERS FOR EQUIPMENT AND FAN INTERLOCK MECHANISMS AS NEEDED.

E7. ALL ELECTRICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

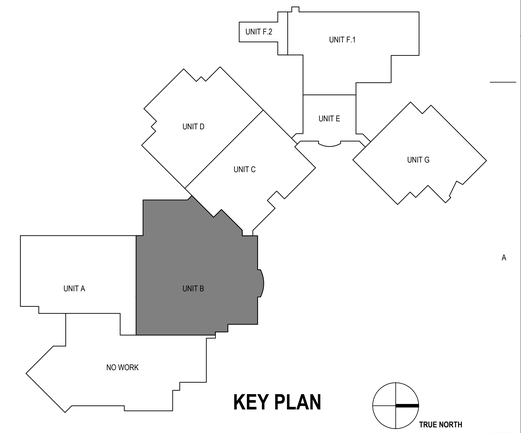
E8. ALL ELECTRICAL CONDUIT IS TO BE RUN WITHIN WALL SURFACES AND BOXES AND RECEPTACLES ARE TO BE INSET FLUSH WITH WALL SURFACE. SURFACE MOUNTED ELECTRICAL WORK IS NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLAN.

E9. EQUIPMENT MANUFACTURERS SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

E10. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

E11. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY LOCAL CODE.

E12. ELECTRICAL CONTRACTOR TO SEAL INSIDE OF CONDUIT W/ SILICONE OR EXPANDABLE FOAM WHERE CONDUIT PENETRATES WALK-IN COOLER/FREEZER WALLS. TYPICAL.



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

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FOODSERVICE ELECTRICAL PLAN

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FS201

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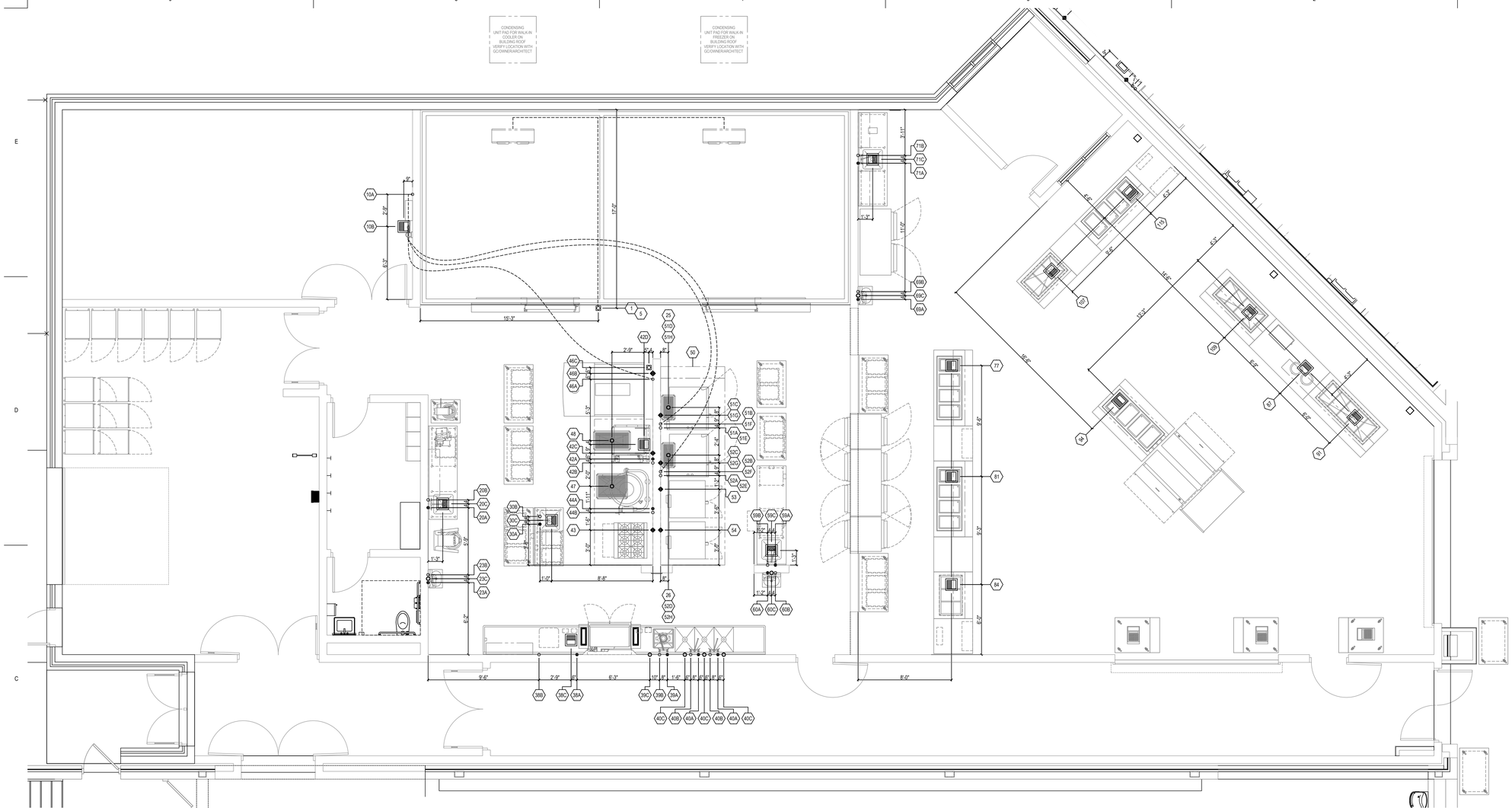
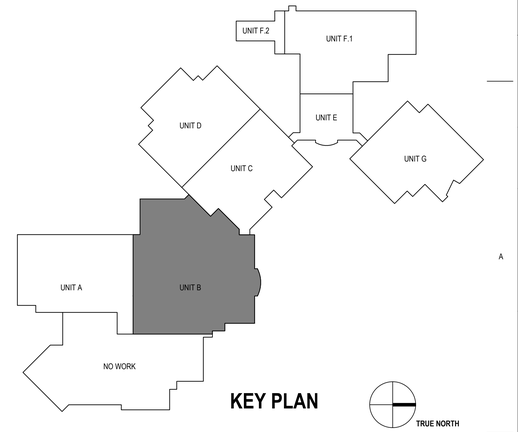


1 FOODSERVICE PLUMBING PLAN

SCALE: 1/4"=1'-0"

PLUMBING SYMBOLS & ABBREVIATIONS		
●	HW	HOT WATER LINE STUB
○	CW	COLD WATER LINE STUB
○	DW	DIRECT WASTE CONNECTION
FD	FD	FLUSH FLOOR DRAIN AND GRATE
IND	IND	INDIRECT WASTE DRAIN
FS	FS	12" SQUARE FLOOR SINK
◆	GAS	GAS SUPPLY LINE STUB
■	SS	STEAM SUPPLY
■	CR	CONDENSATE RETURN
	AFF	ABOVE FINISHED FLOOR
	DFA	DOWN FROM ABOVE
	PC	PLUMBING CONTRACTOR



KEY PLAN

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REFER TO SHEET FS300A FOR PLUMBING SCHEDULE

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

Project Title:
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WHITEWATER HIGH SCHOOL
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534 S. ELIZABETH ST
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FOODSERVICE PLUMBING PLAN

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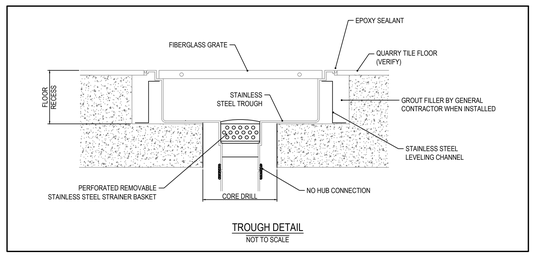


TROUGH DETAIL
NOT TO SCALE

PLUMBING ROUGH-INS

ITEM	QTY	CONNECTION(S)
1	1	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM FREEZER EVAPORATOR COIL TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
5	1	PC TO FURNISH AND INSTALL 1" COPPER CONDENSATE DRAIN LINE FROM COOLER EVAPORATOR COIL TO HUB DRAIN STUB UP 3" AFF. TRAP DRAIN OUTSIDE OF WALK-IN BOX.
10	1	CONNECTIONS FOR STACKED WATER FILTERS: A - 3/4" CW 84" AFF. PC TO BRANCH THRU WATER FILTERS AND THAN TO: (ITEM 46A) - 3/4 CW TO EXISTING ROTATING RACK OVEN. (ITEM 51B) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. (ITEM 51F) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. (ITEM 52B) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. (ITEM 52F) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. B - GENERAL PURPOSE FLOOR SINK FOR DISCHARGE. PC TO FURNISH AND INSTALL BACKFLOW PREVENTION AS REQUIRED BY CODE.
20	1	CONNECTIONS FOR WORKTABLE W/ SINK: A - 1/2" HW 14" AFF. B - 1/2" CW 14" AFF. C - 2" DRAIN TO FLOOR SINK.
23	1	CONNECTIONS FOR HAND SINK: A - 1/2" HW 22" AFF. B - 1/2" CW 22" AFF. C - 1-1/2" DW 20" AFF.
25	1	4" RECESSED NO-HUB TYPE CONNECTION. PC TO CONNECT TO GREASE TRAP. ALSO SEE DETAIL THIS SHEET.
26	1	4" RECESSED NO-HUB TYPE CONNECTION. PC TO CONNECT TO GREASE TRAP. ALSO SEE DETAIL THIS SHEET.
30	1	CONNECTIONS FOR WORKTABLE W/ SINK & OVERSHELF: A - 1/2" HW STUB-UP 8" AFF. B - 1/2" CW STUB-UP 8" AFF. C - 2" DRAIN TO FLOOR SINK.
38	1	CONNECTIONS FOR DISHMACHINE W/ BOOSTER HEATER: A - 3/4" 110°F MINIMUM HW (70° RISE) 12" AFF. PC TO PROVIDE 1/2" HW "T" WITH BALL VALVE SHUT OFF FOR CHEMICAL/SOAP DISPENSER UNIT INSTALLED BY CHEMICAL SUPPLIER. B - 3/4" CW 12" AFF FOR WASTE HEAT RECOVERY SYSTEM. PC TO CONNECT THRU WATER SOFTENER (ITEM 37). C - 2" DRAIN TO FLOOR SINK. EXTEND 24" DOWN BEFORE TRAPPING. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S). DO NOT USE PVC.
39	1	CONNECTIONS FOR DISPOSER W/ PRE-RINSE ASSEMBLY: A - 1/2" HW 14" AFF. B - 3/4" CW 14" AFF. PC TO BRANCH 1/2" TO DISPOSER. C - 2" DW 8" AFF. PC TO CONNECT DISPOSER, SOLENOID VALVE, FLOW CONTROL VALVE AND VACUUM BREAKER.
40	1	CONNECTIONS FOR SOILED DISHTABLE W/ COMPARTMENT SINKS: A - (2) 3/4" HW 14" AFF. PC TO PROVIDE 1/2" HW "T" WITH BALL VALVE SHUT OFF FOR CHEMICAL/SOAP DISPENSER UNIT INSTALLED BY CHEMICAL SUPPLIER. B - (2) 3/4" CW 14" AFF. C - (3) 2" DW 12" AFF. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S).
42	1	CONNECTIONS FOR 30 GALLON TILT SKILLET W/ DRAIN DRAWER: A - 1/2" HW 18" AFF. B - 1/2" CW 18" AFF. C - 1/2" GAS SUPPLY 24" AFF. 104,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT & RESTRAINING CABLE TO PC FOR INSTALLATION. D - 1-1/2" DRAIN FROM DRAIN DRAWER TO FLOOR SINK.
43	1	3/4" GAS SUPPLY 24" FOR OPEN BURNER RANGE. 243,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT & RESTRAINING CABLE TO PC FOR INSTALLATION.
44	1	CONNECTIONS FOR 80 GALLON TILT KETTLE: A - 1/2" HW 18" AFF. B - 1/2" CW 18" AFF.
46	1	CONNECTIONS FOR EXISTING ROTATING RACK OVEN: A - 1/2" CW 90" AFF. PC TO BRANCH WATER FILTER (BY FSEC) ITEM 10A. B - 1-1/4" GAS SUPPLY 24" AFF. 275,000 BTU. C - 1/2" REAR DRAIN TO HUB DRAIN STUB-UP 3" AFF (PLUG FRONT DRAIN). DO NOT USE PVC TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S). PC TO FURNISH AND INSTALL BACKFLOW PREVENTION PER LOCAL CODES. EXISTING - PC TO VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS.
47	1	4" RECESSED NO-HUB TYPE CONNECTION. PC TO CONNECT TO GREASE TRAP. ALSO SEE DETAIL THIS SHEET.
48	1	4" RECESSED NO-HUB TYPE CONNECTION. PC TO CONNECT TO GREASE TRAP. ALSO SEE DETAIL THIS SHEET.
50	1	FSEC TO FURNISH MECHANICAL GAS SHUT-OFF VALVE FOR FIRE SUPPRESSION SYSTEM TO PC FOR INSTALLATION. PC TO COORDINATE VALVE SIZING WITH FSEC. PC TO MOUNT IN AN EASILY ACCESSIBLE AND RESETABLE LOCATION ABOVE CEILING.

PLUMBING ROUGH-INS

ITEM	QTY	CONNECTION(S)
51	1	CONNECTIONS FOR EXISTING STACKED COMBI OVENS: BOTTOM SECTION: A - 3/4" UNTREATED CW 9" AFF. PC TO BRANCH TO UNTREATED WATER INLET. B - 3/4" TREATED CW 18" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 10A TO TREATED WATER INLET. C - 3/4" GAS SUPPLY 24" AFF. 98,000 BTU. D - 1-1/2" DRAIN TO FLOOR TROUGH (ITEM 25). DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. UPPER SECTION: E - 3/4" UNTREATED CW 42" AFF. PC TO BRANCH TO UNTREATED WATER INLET. F - 3/4" TREATED CW 45" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 10A TO TREATED WATER INLET. G - 3/4" GAS SUPPLY 48" AFF. 98,000 BTU. H - 1-1/2" DRAIN TO FLOOR TROUGH (ITEM 25). DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. PC TO FURNISH AND INSTALL BACKFLOW PREVENTION PER LOCAL CODES. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
52	1	CONNECTIONS FOR EXISTING STACKED COMBI OVENS: BOTTOM SECTION: A - 3/4" UNTREATED CW 9" AFF. PC TO BRANCH TO UNTREATED WATER INLET. B - 3/4" TREATED CW 18" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 10A TO TREATED WATER INLET. C - 3/4" GAS SUPPLY 24" AFF. 98,000 BTU. D - 1-1/2" DRAIN TO FLOOR TROUGH (ITEM 26). DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. UPPER SECTION: E - 3/4" UNTREATED CW 42" AFF. PC TO BRANCH TO UNTREATED WATER INLET. F - 3/4" TREATED CW 45" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 10A TO TREATED WATER INLET. G - 3/4" GAS SUPPLY 48" AFF. 98,000 BTU. H - 1-1/2" DRAIN TO FLOOR TROUGH (ITEM 26). DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. PC TO FURNISH AND INSTALL BACKFLOW PREVENTION PER LOCAL CODES. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
53	2	3/4" GAS SUPPLY 24" AND 42" AFF FOR EXISTING STACKED CONVECTION OVENS. 55,000 BTU EA. (110,000 TOTAL) EXISTING - PC TO VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS.
54	2	3/4" GAS SUPPLY 24" AND 42" AFF FOR EXISTING STACKED CONVECTION OVENS. 55,000 BTU EA. (110,000 TOTAL) EXISTING - PC TO VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS.
59	1	CONNECTIONS FOR WORKTABLE W/ SINK: A - 1/2" HW 14" AFF. B - 1/2" CW 14" AFF. C - 2" DRAIN TO FLOOR SINK.
60	1	CONNECTIONS FOR HAND SINK: A - 1/2" HW 22" AFF. B - 1/2" CW 22" AFF. C - 1-1/2" DW 20" AFF.
69	1	CONNECTIONS FOR HAND SINK: A - 1/2" HW 22" AFF. B - 1/2" CW 22" AFF. C - 1-1/2" DW 20" AFF.
71	1	CONNECTIONS FOR WORKTABLE W/ SINK: A - 1/2" HW 14" AFF. B - 1/2" CW 14" AFF. C - 2" DRAIN TO FLOOR SINK.
77	1	CONNECTION FOR EXISTING DROP-IN HOT/COLD WELLS: 3/4" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
81	1	CONNECTION FOR EXISTING DROP-IN HOT/COLD WELLS: 3/4" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
84	1	CONNECTION FOR EXISTING DROP-IN HOT WELLS: 3/4" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
87	1	CONNECTION FOR EXISTING DROP-IN SOUP WELL: 1" DRAIN TO FLOOR SINK (2 LOCATIONS). EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
91	1	CONNECTION FOR EXISTING DROP-IN COLD WELLS: 1" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
94	1	CONNECTION FOR DROP-IN HOT/COLD WELLS: 3/4" DRAIN TO FLOOR SINK.
107	1	CONNECTION FOR EXISTING DROP-IN COLD WELLS: 1" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
109	1	CONNECTION FOR EXISTING DROP-IN COLD WELLS: 1" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
115	1	CONNECTION FOR EXISTING DROP-IN HOT/COLD WELLS: 3/4" DRAIN TO FLOOR SINK. EXISTING - PC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.

PLUMBER/FITTERS NOTES

P1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOODSERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECT'S PLANS, CONSULTANT, OR OWNER.

P2. PLUMBER/FITTER CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

P3. THE FOODSERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR PROVIDING APPURTENANCES SUCH AS TEES, ELBOWS, MIXING VALVES, R.P. VALVES, GREASE TRAPS OR INTERCEPTORS, BACKFLOW DEVICES, COUPLINGS AND FITTINGS OTHER THAN THOSE FURNISHED AS STANDARD WITH EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR, EXCEPT WHERE SPECIFIED TO DO SO UNDER THE ARCHITECTS OR CONSULTANTS GENERAL KITCHEN EQUIPMENT SPECIFICATIONS.

P4. UNLESS OTHERWISE SPECIFIED, THE PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY P.V.C. PIPING AT MIN.1 THROUGH AND BELOW FLOOR TO ACT AS A CHASE FOR BEVERAGE AND/OR REFRIGERATION LINE RUNS. BENDS IN P.V.C. CHASE ARE NOT TO EXCEED 45 DEGREES AT ANY SINGLE POINT.

P5. PLUMBER/FITTER TO MAKE ALL FINAL PLUMBING AND GAS CONNECTIONS TO EQUIPMENT, INCLUDING MOUNTING FAUCETS AND DRAINS. EXTEND WATER LINES FROM ALL APPLICABLE EQUIPMENT TO NEAREST INDIRECT DRAIN AS SHOWN ON PLAN.

P6. ALL MECHANICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

P7. ALL PLUMBING, GAS AND STEAM LINES TO BE RUN WITHIN WALL CAVITIES SO AS TO HAVE ONLY SUPPLY AND RETURN STUBS PROTRUDING THROUGH WALL SURFACE. WALL PENETRATIONS ARE TO BE SEALED AND TRIM RINGS APPLIED. SURFACE MOUNTED PLUMBING, GAS AND STEAM LINES ARE NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLANS.

P8. EQUIPMENT MANUFACTURER'S SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY THE FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

P9. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

P10. PLUMBING CONTRACTOR TO FURNISH AND INSTALL GAS PRESSURE REDUCING VALVE TO PROVIDE MAXIMUM OPERATING PRESSURE OF 14" W.C. TO FOODSERVICE EQUIPMENT. GAS SHUT OFF VALVE MUST BE INSTALLED TO BE ACCESSIBLE FOR INSPECTIONS.

P11. PLUMBING CONTRACTOR TO FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE(S) WHERE REQUIRED FOR FOODSERVICE EQUIPMENT.

P12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL HOT WATER RECIRCULATION SYSTEM THAT SHALL PROVIDE HOT WATER SUPPLY WITHIN 20 SECONDS AT EACH SINK AND DISHMACHINE.

PLUMBING NOTE

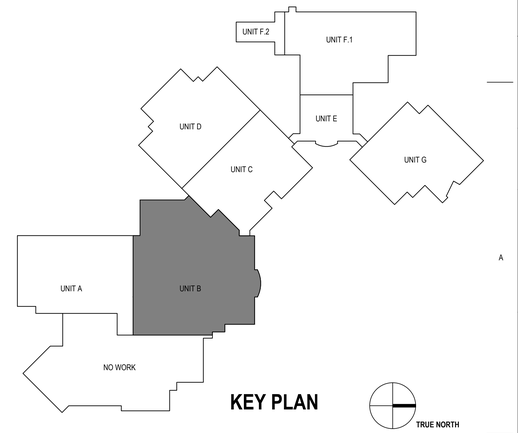
PLUMBING CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE PLUMBING CODES.
PLUMBING CONTRACTOR TO READ AND REVIEW 11 40 00 SPECIFICATIONS.

FLOOR DRAIN NOTE

EXACT LOCATION OF ALL FLOOR DRAINS TO BE LOCATED BY PLUMBING CONTRACTOR.

BACKFLOW PREVENTER NOTE

PLUMBING CONTRACTOR TO FURNISH AND INSTALL ANY AND ALL CODE COMPLYING BACKFLOW PREVENTERS PER LOCAL CODES.



KEY PLAN

TRUE NORTH

REFER TO SHEET FS300 FOR PLUMBING PLAN

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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12/19/2025

Project Number:
3705

Sheet Title:
FOODSERVICE PLUMBING SCHEDULE

Sheet Number:
FS300A

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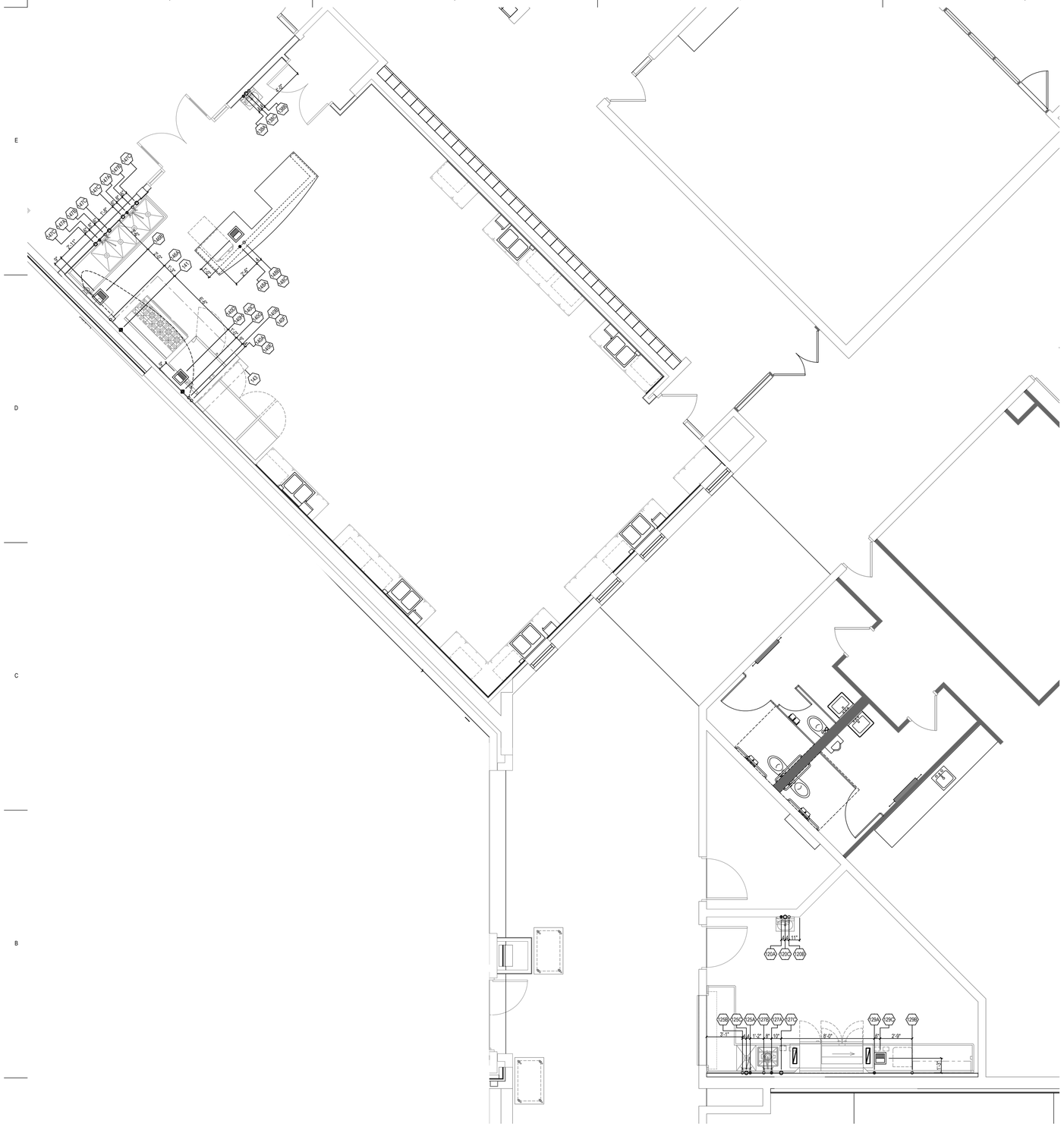


1 FOODSERVICE PLUMBING PLAN
SCALE: 1/4"=1'-0"

PLUMBING ROUGH-INS

ITEM	QTY	CONNECTION(S)
120	1	CONNECTIONS FOR HAND SINK: A - 1/2" HW 22" AFF. B - 1/2" CW 22" AFF. C - 1-1/2" DW 20" AFF.
125	1	CONNECTIONS FOR SOILED DISHTABLE W/ COMPARTMENT SINK: A - 3/4" HW 14" AFF. PC TO PROVIDE 1/2" HW "T" WITH BALL VALVE SHUT OFF FOR CHEMICAL/SOAP DISPENSER UNIT INSTALLED BY CHEMICAL SUPPLIER. B - 3/4" CW 14" AFF. C - 2" DW 12" AFF. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S).
127	1	CONNECTIONS FOR DISPOSER W/ PRE-RINSE ASSEMBLY: A - 1/2" HW 14" AFF. B - 3/4" CW 14" AFF. PC TO BRANCH 1/2" TO DISPOSER. C - 2" DW 8" AFF. PC TO CONNECT DISPOSER, SOLENOID VALVE, FLOW CONTROL VALVE AND VACUUM BREAKER.
129	1	CONNECTIONS FOR EXISTING DISHMACHINE W/ BOOSTER HEATER: A - 3/4" 110°F MINIMUM HW (70° RISE) 12" AFF. PC TO PROVIDE 1/2" HW "T" WITH BALL VALVE SHUT OFF FOR CHEMICAL/SOAP DISPENSER UNIT INSTALLED BY CHEMICAL SUPPLIER. B - 3/4" CW 12" AFF FOR WASTE HEAT RECOVERY SYSTEM. PC TO CONNECT THRU WATER SOFTENER (ITEM 36). C - 2" DRAIN TO FLOOR SINK. EXTEND 24" DOWN BEFORE TRAPPING. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S). DO NOT USE PVC. EXISTING - PC TO VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS.
138	1	CONNECTIONS FOR HAND SINK: A - 1/2" HW 22" AFF. B - 1/2" CW 22" AFF. C - 1-1/2" DW 20" AFF.
140	1	CONNECTIONS FOR STACKED COMBI OVENS: BOTTOM SECTION: A - 3/4" UNTREATED CW 9" AFF. PC TO BRANCH TO UNTREATED WATER INLET. B - 3/4" TREATED CW 18" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 146A TO TREATED WATER INLET. C - 3/4" GAS SUPPLY 24" AFF. 98,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT & RESTRAINING CABLE TO PC FOR INSTALLATION. D - 1-1/2" DRAIN TO FLOOR SINK. DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. UPPER SECTION: E - 3/4" UNTREATED CW 42" AFF. PC TO BRANCH TO UNTREATED WATER INLET. F - 3/4" TREATED CW 45" AFF. PC TO BRANCH FROM WATER FILTER (BY FSEC) ITEM 146A TO TREATED WATER INLET. G - 3/4" GAS SUPPLY 48" AFF. 98,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT & RESTRAINING CABLE TO PC FOR INSTALLATION. H - 1-1/2" DRAIN TO FLOOR SINK. DO NOT USE PVC. TO DRAIN. PC TO DRAIN TO GREASE TRAP PER LOCAL CODES. PC TO FURNISH AND INSTALL BACKFLOW PREVENTION PER LOCAL CODES.
141	1	1" GAS SUPPLY 24" FOR OPEN BURNER RANGE. 358,000 BTU. FSEC TO FURNISH GAS HOSE WITH QUICK DISCONNECT & RESTRAINING CABLE TO PC FOR INSTALLATION.
143	1	FSEC TO FURNISH MECHANICAL GAS SHUT-OFF VALVE FOR FIRE SUPPRESSION SYSTEM TO PC FOR INSTALLATION. PC TO COORDINATE VALVE SIZING WITH FSEC. PC TO MOUNT IN AN EASILY ACCESSIBLE AND RESETABLE LOCATION ABOVE CEILING.
146	1	CONNECTIONS FOR WATER FILTER: A - 3/4" CW 84" AFF. PC TO BRANCH THRU WATER FILTER AND THAN TO: (ITEM 140B) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. (ITEM 140F) - 3/4" CW TO COMBI OVEN TREATED WATER INLET. B - GENERAL PURPOSE FLOOR SINK FOR DISCHARGE. PC TO FURNISH AND INSTALL BACKFLOW PREVENTION AS REQUIRED BY CODE.
147	1	CONNECTIONS FOR 4-COMPARTMENT SINK: A - (2) 3/4" HW 14" AFF. PC TO PROVIDE 1/2" HW "T" WITH BALL VALVE SHUT OFF FOR CHEMICAL/SOAP DISPENSER UNIT INSTALLED BY CHEMICAL SUPPLIER. B - (2) 3/4" CW 14" AFF. C - (4) 2" DW 12" AFF. PC TO DRAIN TO GREASE TRAP PER LOCAL CODE(S).
148	1	CONNECTIONS FOR UNDERCOUNTER DISHWASHER: A - 3/4" (110° MIN) HW 12" AFF. B - 5/8" (55-85°) CW 12" AFF FOR DRAIN WATER TEMPERING. C - 5/8" DRAIN TO FLOOR SINK. BY OWNER - PC TO VERIFY ROUGH-IN LOCATIONS AND REQUIREMENTS.

PLUMBING NOTE

PLUMBING CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE PLUMBING CODES.
PLUMBING CONTRACTOR TO READ AND REVIEW 11 40 00 SPECIFICATIONS.

FLOOR DRAIN NOTE

EXACT LOCATION OF ALL FLOOR DRAINS TO BE LOCATED BY PLUMBING CONTRACTOR.

BACKFLOW PREVENTER NOTE

PLUMBING CONTRACTOR TO FURNISH AND INSTALL ANY AND ALL CODE COMPLYING BACKFLOW PREVENTERS PER LOCAL CODES.

PLUMBING SYMBOLS & ABBREVIATIONS

●	HW	HOT WATER LINE STUB
○	CW	COLD WATER LINE STUB
○	DW	DIRECT WASTE CONNECTION
⊙ FD	FD	FLUSH FLOOR DRAIN AND GRATE
IND	IND	INDIRECT WASTE DRAIN
FS	FS	12" SQUARE FLOOR SINK
◆	GAS	GAS SUPPLY LINE STUB
■	SS	STEAM SUPPLY
◪	CR	CONDENSATE RETURN
	AFF	ABOVE FINISHED FLOOR
	DFA	DOWN FROM ABOVE
	PC	PLUMBING CONTRACTOR

PLUMBER/FITTERS NOTES

P1. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOODSERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTS PLANS, CONSULTANT, OR OWNER.

P2. PLUMBER/FITTER CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".

P3. THE FOODSERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR PROVIDING APPURTENANCES SUCH AS TEES, ELBOWS, MIXING VALVES, R.P. VALVES, GREASE TRAPS OR INTERCEPTORS, SHOCK LOW DEVICES, COUPLINGS AND FITTINGS OTHER THAN THOSE FURNISHED AS STANDARD WITH EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR, EXCEPT WHERE SPECIFICS TO DO SO UNDER THE ARCHITECTS OR CONSULTANTS GENERAL KITCHEN EQUIPMENT SPECIFICATIONS.

P4. UNLESS OTHERWISE SPECIFIED, THE PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY P.V.C. PIPING (F MIN.) THROUGH AND BELOW FLOOR TO ACT AS A CHASE FOR BEVERAGE AND/OR REFRIGERATION LINE RUNS. BENDS IN P.V.C. CHASE ARE NOT TO EXCEED 45 DEGREES AT ANY SINGLE POINT.

P5. PLUMBER/FITTER TO MAKE ALL FINAL PLUMBING AND GAS CONNECTIONS TO EQUIPMENT, INCLUDING MOUNTING FAUCETS AND DRAINS. EXTEND WASTE LINES FROM ALL APPLICABLE EQUIPMENT TO NEAREST INDIRECT DRAIN AS SHOWN ON PLAN.

P6. ALL MECHANICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.

P7. ALL PLUMBING, GAS AND STEAM LINES TO BE RUN WITHIN WALL CAVITIES SO AS TO HAVE ONLY SUPPLY AND RETURN STUBS PROTRUDING THROUGH WALL SURFACE. WALL PENETRATIONS ARE TO BE SEALED AND TRIM RINGS APPLIED. SURFACE MOUNTED PLUMBING, GAS AND STEAM LINES ARE NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLANS.

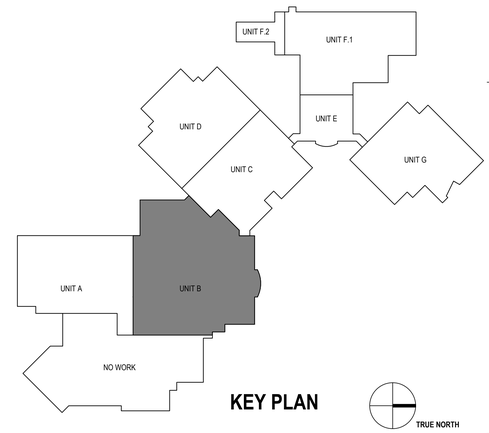
P8. EQUIPMENT MANUFACTURER'S SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY THE FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.

P9. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.

P10. PLUMBING CONTRACTOR TO FURNISH AND INSTALL GAS PRESSURE REDUCING VALVE TO PROVIDE MAXIMUM OPERATING PRESSURE OF 14" W.C. TO FOODSERVICE EQUIPMENT. GAS SHUT OFF VALVE MUST BE INSTALLED TO BE ACCESSIBLE FOR INSPECTIONS.

P11. PLUMBING CONTRACTOR TO FURNISH AND INSTALL WATER PRESSURE REDUCING VALVE(S) WHERE REQUIRED FOR FOODSERVICE EQUIPMENT.

P12. PLUMBING CONTRACTOR TO FURNISH AND INSTALL HOT WATER RECIRCULATION SYSTEM THAT SHALL PROVIDE HOT WATER SUPPLY WITHIN 20 SECONDS AT EACH SINK AND DISHMACHINE.



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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Project Number:
3705

Sheet Title:
FOODSERVICE PLUMBING PLAN

Sheet Number:
FS301

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G.C. TO PROVIDE CURB ON BUIDLING ROOF 48" X 48" 24"H FOR WALK-IN COOLER CONDENSING UNIT.

G.C. TO PROVIDE CURB ON BUIDLING ROOF 48" X 48" X 24"H FOR WALK-IN FREEZER CONDENSING UNIT.

WALLS TO BE BUILT CMU. IF ANY WALLS ARE BUILT WITH METAL STUD AND DRYWALL GC TO COORDINATE ANY WALL BLOCKING WITH FSEC FOR KITCHEN EQUIPMENT.

GC NOTE:
GC TO PRIME WALLS WHERE ST/ST WALL FLASHING IS TO BE INSTALLED.

FSEC TO ROUTE AND CONNECT REFRIGERATION LINES FROM WALK-IN COOLER/FREEZER EVAPORATOR COILS TO CONDENSING UNITS ON ROOF. SEE ARCH PLANS FOR LOCATIONS AND DETAILS. APPROXIMATELY 50' LINE SET RUN FOR EACH SYSTEM.

WALK-IN COOLER/FREEZER NOTE:
RECESS FLOOR IN THIS AREA 9" AS DIMENSIONED PLAN. THIS ENTIRE AREA MUST BE TRUE, LEVEL, SQUARE, AND REMAIN COMPLETELY CLEAR OF OBSTRUCTIONS FROM FINISH FLOOR TO 10'-0" ABOVE FINISH FLOOR, EXCEPT THOSE REQUIRED TO SERVICE THE FREEZER. EXTRA SPACE TO BE FILLED WITH GROUT AFTER WALK-IN COOLER/FREEZER INSTALLATION. FSEC TO COORDINATE WITH ARCH AND GENERAL CONTRACTOR.

EXHAUST HOOD INFORMATION

HOOD ITEM	TYPE	PLENUM	DUCT SIZE	CFM	SP
45	TYPE I	EXHAUST	10" X 24"	2500	-0.696"
49A	TYPE I	EXHAUST	10" X 14"	1550	-0.573"
49B	TYPE I	EXHAUST	10" X 14"	1550	-0.573"

HOOD PROVIDED BY FSEC.
FANS, CURBS, ETC. PROVIDED BY OTHERS

ITEM 46 (EXISTING)
8" DIA. CONNECTION COLLAR.
MIN. 690 CFM
EXISTING - VERIFY REQUIREMENTS

RECESS FLOOR IN THESE AREAS 7" FOR FLOOR TROUGH INSTALLATION SEE DETAILSHEET FS300A.

RECESS FLOOR IN THESE AREAS 7" FOR FLOOR TROUGH INSTALLATION SEE DETAIL SHEET FS300A.

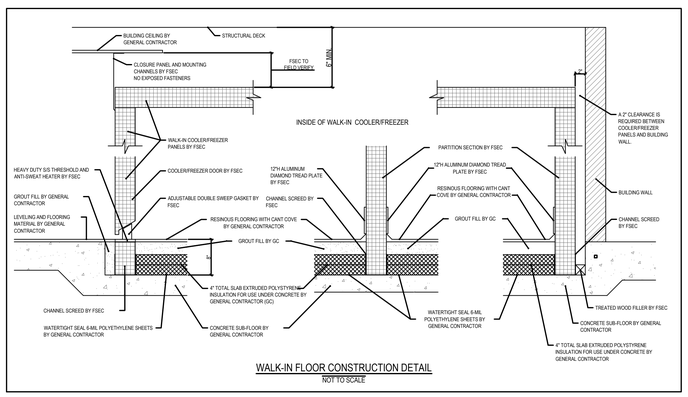
ITEM 32
DISHMACHINE EXHAUST DUCT
(UNLOAD END)
DUCT SIZE: 4" X 16", 400 CFM

ITEM 33
DISHMACHINE EXHAUST DUCT
(LOAD END)
DUCT SIZE: 4" X 16", 200 CFM

INSIDE OF WALK-IN COOLER/FREEZER

1 FOODSERVICE SPECIAL CONDITIONS PLAN

SCALE: 1/4"=1'-0"



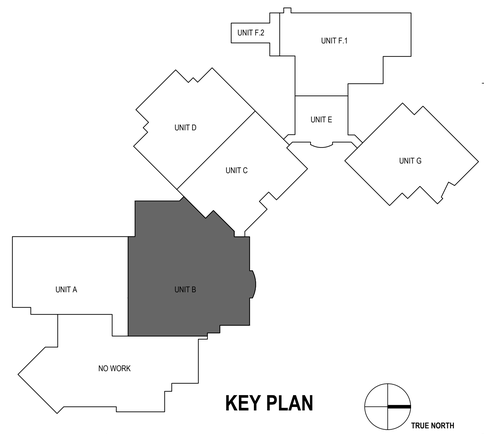
WALK-IN FLOOR CONSTRUCTION DETAIL
NOT TO SCALE

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
1	1	WALK-IN FREEZER	
2	3	WALK-IN FREEZER SHELVING	
3	14	WALK-IN FREEZER DUNNAGE RACK	
4	-	SPARE NUMBER	
5	1	WALK-IN COOLER	
6	10	WALK-IN COOLER SHELVING	
7	4	WALK-IN COOLER DUNNAGE RACK	
8	8	DUNNAGE RACKS	
9	2	TRACK SHELVING ASSEMBLY	
10	3	STACKED WATER FILTERS	
11	12	HOT HOLDING CABINET	
12	12	SPEED RACK	
13	1	CAN RACK	
14	-	SPARE NUMBER	
15	1	MOBILE EQUIPMENT STAND	
16	1	20 QT. MIXER	EXISTING
17	1	SLICER	EXISTING
18	1	WALL SHELF	
19	1	TRASH CONTAINER (BITUTE)	BY OWNER
20	1	WORKTABLE W/ SINK	
21	1	60 QT. MIXER	EXISTING
22	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
23	1	HAND SINK	
24	-	SPARE NUMBER	
25	1	FLOOR TROUGH	
26	1	FLOOR TROUGH	
27	1	MOBILE WORKTABLE	
28	1	MOBILE WORKTABLE	
29	1	MOBILE WORKTABLE	
30	1	WORKTABLE W/ SINK & OVERSHELF	
31	1	MOBILE RACK RETURN	
32	1	DISHMACHINE VENT DUCT (UNLOAD END)	
33	1	DISHMACHINE VENT DUCT (LOAD END)	
34	6	STORAGE SHELVING	
35	1	WALL SHELF	
36	1	CLEAN DISHTABLE	
37	1	WATER SOFTENER	
38	1	DISHMACHINE	
39	1	DISPOSER W/ PRE-RINSE ASSEMBLY	
40	1	SOILED DISHTABLE W/ COMPARTMENT SINKS	
41	1	TRASH CONTAINER (BRUTE)	BY OWNER
42	1	30 GALLON TILT SKILLET W/ DRAIN DRAWER	
43	1	OPEN BURNER RANGE	
44	1	80 GALLON TILT KETTLE	
45	1	EXHAUST HOOD	
46	1	ROTATING RACK OVEN	EXISTING
47	1	FLOOR TROUGH	
48	1	FLOOR TROUGH	
49	1	EXHAUST HOOD	
50	1	FIRE SUPPRESSION SYSTEM	
51	1	STACKED COMBI OVENS	EXISTING
52	1	STACKED COMBI OVENS	EXISTING
53	1	STACKED CONVECTION OVENS	EXISTING
54	1	STACKED CONVECTION OVENS	EXISTING
55	1	MICROWAVE / STEAMER	
56	1	MOBILE WORKTABLE	
57	1	MOBILE WORKTABLE	
58	1	TRASH CONTAINER (BRUTE)	BY OWNER
59	1	WORKTABLE W/ SINK	
60	1	HAND SINK	

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
61	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
62	1	TRASH CONTAINER (BRUTE)	
63	1	ROLL-IN REFRIGERATOR	
64	1	MOBILE WORKTABLE	
65	1	ROLL-THRU HEATED CABINET	
66	1	ROLL-THRU REFRIGERATOR	
67	1	ROLL-THRU HEATED CABINET	
68	1	MOBILE WORKTABLE	
69	1	HAND SINK	
70	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
71	1	WORKTABLE W/ SINK	
72	2	WALL SHELF	
73	1	CAN OPENER	
74	1	SERVING COUNTER	EXISTING
75	1	SERVING COUNTER	EXISTING
76	1	SNEEZE GUARD	EXISTING
77	1	DROP-IN HOT/COLD WELLS	EXISTING
78	1	SERVING COUNTER W/ LOAD CENTER PANEL	
79	1	SERVING COUNTER	EXISTING
80	1	SNEEZE GUARD	EXISTING
81	1	DROP-IN HOT/COLD WELLS	EXISTING
82	1	SERVING COUNTER	EXISTING
83	1	SNEEZE GUARD	EXISTING
84	1	DROP-IN HOT WELLS	EXISTING
85	1	SERVING COUNTER	
86	1	SNEEZE GUARD	EXISTING
87	2	DROP-IN SOUP WELLS	EXISTING
88	1	SERVING COUNTER	
89	1	SERVING COUNTER	EXISTING
90	1	SNEEZE GUARD	EXISTING
91	1	DROP-IN COLD WELLS	EXISTING
92	1	SERVING COUNTER	
93	1	SNEEZE GUARD	
94	1	DROP-IN HOT/COLD WELLS	
95	2	MLK COOLER	EXISTING
96	1	POS SYSTEM	BY OWNER
97	1	POS COUNTER	
98	1	TRAY & UTENSIL CART	
99	1	CONDIMENT COUNTER	
100	1	POS COUNTER	
101	1	POS SYSTEM	BY OWNER
102	1	POS COUNTER	EXISTING
103	1	POS SYSTEM	BY OWNER
104	1	CONDIMENT COUNTER	
105	1	FOOD WARMER	
106	-	SPARE NUMBER	
107	1	DROP-IN COLD WELLS	EXISTING
108	1	SERVING COUNTER	EXISTING
109	1	DROP-IN COLD WELLS	EXISTING
110	1	SNEEZE GUARD	EXISTING
111	1	SERVING COUNTER	EXISTING
112	1	SNEEZE GUARD	EXISTING
113	1	SERVING COUNTER	EXISTING
114	1	SERVING COUNTER W/ LOAD CENTER PANEL	
115	1	DROP-IN HOT/COLD WELLS	EXISTING
116	1	SNEEZE GUARD	EXISTING
117	1	SERVING COUNTER	EXISTING
118	1	REFRIGERATED MERCHANDISER	EXISTING
119	1	TRAY & UTENSIL CART	EXISTING



KEY PLAN

TRUE NORTH

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH ST
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
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12/19/2025

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Sheet Title:
FOODSERVICE SPECIAL CONDITIONS PLAN

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FS400

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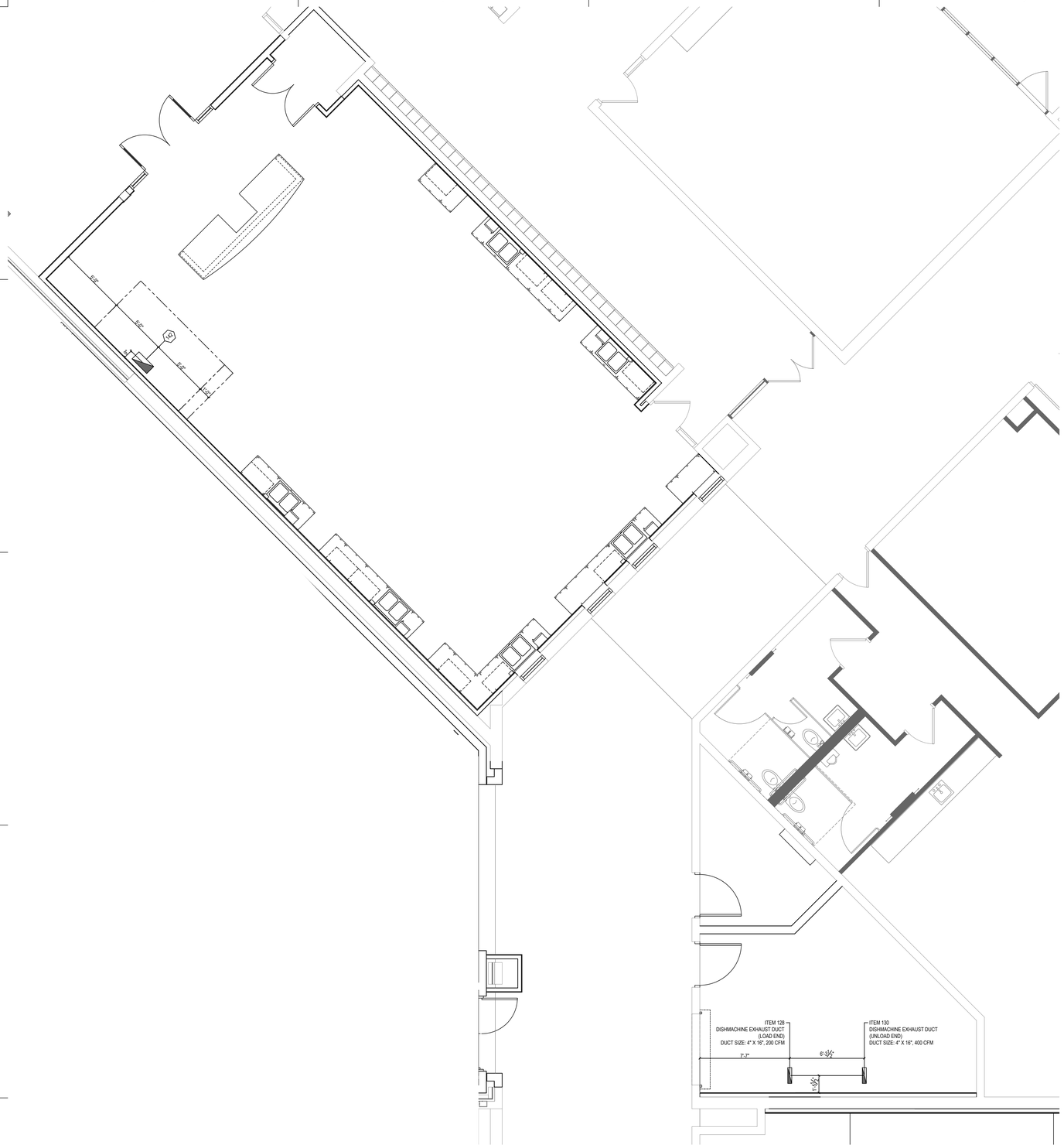


1 FOODSERVICE SPECIAL CONDITIONS PLAN
SCALE: 1/4"=1'-0"

EQUIPMENT LIST

ITEM	QTY	DESCRIPTION	COMMENTS
120	1	HAND SINK	
121	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
122	-	SPARE NUMBER	
123	-	SPARE NUMBER	
124	-	SPARE NUMBER	
125	1	SOILED DISHTABLE W/ COMPARTMENT SINK	
126	1	TRASH CONTAINER (BRUTE)	BY OWNER
127	1	DISPOSER W/ PRE-RINSE ASSEMBLY	
128	1	VENT DUCT (LOAD END)	
129	1	DISHMACHINE	EXISTING
130	1	VENT DUCT (UNLOAD END)	
131	1	CLEAN DISHTABLE	
132	1	WALL SHELF	
133	3	STORAGE SHELVING	
134	1	MOBILE RACK RETURN	EXISTING
135	2	TRAY CARTS	ALTERNATE LOCATIONS
136	1	WATER SOFTENER	
137	-	SPARE NUMBER	
138	1	HAND SINK	
139	1	TRASH CONTAINER (SLIM JIM)	BY OWNER
140	1	STACKED COMBI OVENS	
141	1	OPEN BURNER RANGE	
142	1	EXHAUST HOOD	
143	1	FIRE SUPPRESSION SYSTEM	
144	1	REACH-IN REFRIGERATOR	
145	1	REACH-IN FREEZER	
146	1	WATER FILTER	
147	1	4-COMPARTMENT SINK	
148	1	UNDERCOUNTER DISHWASHER	BY OWNER
149	1	COUNTER TOP AND LEGS	

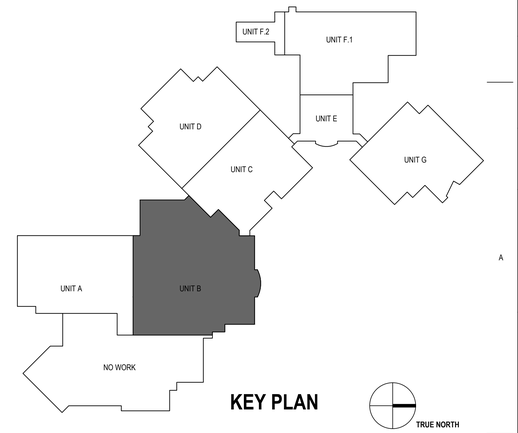
WALLS TO BE BUILT CMU. IF ANY WALLS ARE BUILT WITH METAL STUD AND DRYWALL GC TO COORDINATE ANY WALL BLOCKING WITH FSEC FOR KITCHEN EQUIPMENT.

GC NOTE:
GC TO PRIME WALLS WHERE ST/ST WALL FLASHING IS TO BE INSTALLED.

EXHAUST HOOD INFORMATION

HOOD ITEM	TYPE	PLENUM	DUCT SIZE	CFM	SP
142	TYPE I	EXHAUST	10" X 21"	2200	-0.684"

HOOD PROVIDED BY FSEC.
FANS, CURBS, ETC. PROVIDED BY OTHERS



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FOODSERVICE SPECIAL CONDITIONS PLAN

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FS401

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AIR HANDLING UNITS

UNIT NO.	SERVICE	UNIT: TYPE	SYSTEM TYPE	CFM OF STD. AIR	MIN. CFM OF O.A.	MAX. CFM OF O.A.	SUPPLY CONN. SIZE	EXT. S.P. IN IN. WATER	NO. OF FANS	MOTOR HP	FAN WHEEL TYPE	DRIVE TYPE	MOTOR TYPE	MAX VFD HZ.	FILTER TYPE	VOLUME CONTROL	SUPPORT	HEATING COIL: MAX. FACE VEL.	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	MAX. H2O P.D. IN FT.	GPM	BRANCH PIPE SIZE	COOLING COIL: MAX. FACE VEL.	ENT. AIR D.B.	ENT. AIR W.B.	LV. AIR D.B.	LV. AIR W.B.	ENT. H20 TEMP.	LV. H20 TEMP.	% PROP. GLYCOL	MAX. H2O P.D. IN FT.	GPM	BRANCH PIPE SIZE	DESIGN DIMENSIONS: LENGTH	WIDTH	HEIGHT	WEIGHT LBS.	MANUF. MODEL
AHU-5	GYM & WRESTLING	HORIZ.	SZVAV	15,500	1,000	3,900	56x34	1.5	1	20	PLENUM	DIRECT	ODP	70 Hz	2" MERV 13	VFD	CONC. PAD	550	44 °F	70 °F	160 °F	120 °F	0	10	21.9	2"	550	78 °F	67.8 °F	53 °F	52.4 °F	44 °F	57 °F	35	25	124	3"	15' - 2"	8' - 2"	5' - 0"	5100	DAIKIN CAH-030
AHU-6	GYM	HORIZ.	SZVAV	12,500	500	8,500	38x38	1.5	1	15	PLENUM	DIRECT	ODP	70 Hz	2" MERV 13	VFD	CONC. PAD	550	12 °F	95 °F	160 °F	120 °F	0	10	56.3	2 1/2"	550	79.3 °F	69.2 °F	53 °F	52.4 °F	44 °F	57 °F	35	25	112	3"	15' - 4"	7' - 2"	5' - 0"	4800	DAIKIN CAH-025
AHU-10	OFFICES	HORIZ.	VAV	10,000	1,520	1,520	46x28	3	1	15	PLENUM	DIRECT	ODP	70 Hz	2" MERV 13	VFD	STEEL STAND	550	55 °F	70 °F	160 °F	120 °F	0	10	8.2	1 1/4"	550	76.8 °F	64.7 °F	53 °F	52.4 °F	44 °F	57 °F	35	25	62	2 1/2"	12' - 2"	6' - 10"	4' - 4"	3600	DAIKIN CAH-021
AHU-11	CLASSROOMS	HORIZ.	VAV	25,000	4,100	7,500	70x40	2.5	1	30	PLENUM	DIRECT	ODP	70 Hz	2" MERV 13	VFD	CONC. PAD	550	43 °F	70 °F	160 °F	120 °F	0	10	36.6	2"	550	77.6 °F	65.9 °F	53 °F	52.4 °F	44 °F	57 °F	35	25	172	4"	18' - 2"	10' - 0"	6' - 8"	8500	DAIKIN CAH-050
AHU-B2	POOL LOCKERS	HORIZ.	SZVAV	2,100	2,100	2,100	18x18	1.5	1	2	PLENUM	DIRECT	ODP	70 Hz	2" MERV 13	VFD	CONC. PAD	550	-10 °F	100 °F	160 °F	120 °F	35	10	12.8	1 1/4"												9' - 8"	4' - 4"	2' - 6"	1000	DAIKIN CAH-006

NOTE: AHU-B2 IS UNDER ALTERNATE BID H1

ROOF MOUNTED ENERGY RECOVERY UNITS

UNIT NO.	SERVICE	SUPPLY SIDE: CFM OF STD. AIR	MIN. CFM OF O.A.	MAX. CFM OF O.A.	EXT. S.P. IN IN. WATER	WINTER E.A.T. D.B.	WINTER E.A.T. W.B.	WINTER L.A.T. D.B.	WINTER L.A.T. W.B.	SUMMER E.A.T. D.B.	SUMMER E.A.T. W.B.	SUMMER L.A.T. D.B.	SUMMER L.A.T. W.B.	MOTOR HP	FAN WHEEL TYPE	MOTOR TYPE	COOLING COIL: E.A.T. D.B.	E.A.T. W.B.	L.A.T. D.B.	L.A.T. W.B.	ENT. H20 TEMP.	LV. H20 TEMP.	GPM	BRANCH PIPE SIZE	% PROP. GLYCOL	TOT. CAP. MBH	HEATING COIL: ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H20 TEMP.	LV. H20 TEMP.	GPM	BRANCH PIPE SIZE	% PROP. GLYCOL	TOT. CAP. MBH	EXHAUST SIDE: MAX. CFM OF EXH. AIR	EXT. S.P. IN IN. WATER	WINTER E.A.T. D.B.	WINTER E.A.T. W.B.	SUMMER E.A.T. D.B.	SUMMER E.A.T. W.B.	MOTOR HP	FAN WHEEL TYPE	MOTOR TYPE	INTEGRAL VFD	MAX VFD HZ.	FILTER TYPE	ENERGY WHEEL	SUPPORT	DESIGN DIMENSIONS: WIDTH	LENGTH	HEIGHT	WEIGHT LBS.	MANUF. MODEL
RERU-1	AUTOS LAB C121	3,000	300	3,000	0.75	-15 °F	-15 °F	40.8 °F	33.7 °F	87 °F	75 °F	77.8 °F	66 °F	5	PLENUM	ODP	77.8 °F	66 °F	55 °F	54 °F	44 °F	57 °F	15	1 1/2"	35	81.6	40 °F	95 °F	160 °F	120 °F	9	1 1/4"	0	180	3,000	0.75	70 °F	52 °F	75 °F	62 °F	3	PLENUM	ODP	YES	70	MERV 13	YES	ROOF CURB	6' - 1"	12' - 7"	5' - 5"	2,000	AAON
RERU-2	EXISTING FITNESS	1,725	1,725	1,725	1.5	-15 °F	-15 °F	45.1 °F	37 °F	87 °F	75 °F	78.3 °F	66.4 °F	3	PLENUM	ODP	78.3 °F	66.4 °F	55 °F	54 °F	44 °F	57 °F	12.5	1 1/4"	35	58	45 °F	70 °F	160 °F	120 °F	5	1"	0	59	1,725	1	70 °F	52 °F	75 °F	62 °F	2	PLENUM	ODP	YES	70	MERV 13	YES	ROOF CURB	4' - 10"	11' - 2"	5' - 0"	1,300	AAON

BLOWER COIL UNITS

UNIT NO.	SERVICE	UNIT: TYPE	CFM OF STD. AIR	CFM OF O.A.	EXT. S.P. IN IN. WATER	NO. OF FANS	NO. OF MOTORS	MOTOR HP	DRIVE	MOTOR TYPE	FILTER TYPE	SUPPORT	HEATING COIL: ENT. AIR D.B.	LV. AIR D.B.	ENT. H2O TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	COOLING COIL: ENT. AIR D.B.	ENT. AIR W.B.	LV. AIR D.B.	LV. AIR W.B.	ENT. H20 TEMP.	LV. H20 TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	VIBRATION ISOLATORS: TYPE	MIN. STATIC DEFLECT.	MANUF. MODEL
BCU-1	WOODS LAB C131	HORIZ.	3,700	370	1	2	2	4.42	DIRECT	ECPM	2" MERV 13	SUSPENDED	58 °F	95 °F	160 °F	120 °F	0	7.5	1 1/4"	76.4 °F	65 °F	58.9 °F	58.4 °F	44 °F	57 °F	35	12.5	1 1/4"	D	0' - 1"	DAIKIN BCHE
BCU-2	METALS LAB C120	HORIZ.	2,800	280	1	1	1	4.42	DIRECT	ECPM	2" MERV 13	SUSPENDED	58 °F	95 °F	160 °F	120 °F	0	5.7	1"	76.4 °F	65 °F	59.1 °F	58.4 °F	44 °F	57 °F	35	9.4	1 1/4"	D	0' - 1"	DAIKIN BCHE
BCU-3	ROBOTICS C116	HORIZ.	1,725	225	1	1	2	0.75	DIRECT	ECPM	2" MERV 13	SUSPENDED	57 °F	90 °F	160 °F	120 °F	0	3.1	3/4"	76.6 °F	65.2 °F	59.2 °F	58.5 °F	44 °F	57 °F	35	5.9	1"	D	0' - 1"	DAIKIN BCHD
BCU-4	KITCHEN/SERVERY	HORIZ.	2,800	280	1	1	1	4.42	DIRECT	ECPM	2" MERV 13	SUSPENDED	58 °F	95 °F	160 °F	120 °F	0	5.7	1"	76.4 °F	65 °F	57.6 °F	57.3 °F	44 °F	57 °F	35	10.9	1 1/4"	D	0' - 1"	DAIKIN BCHE

FAN COIL UNITS

UNIT NO.	SERVICE	UNIT: TYPE	CFM OF STD. AIR	CFM OF O.A.	EXT. S.P. IN IN. WATER	NO. OF FANS	MOTOR TYPE	NO. OF MOTORS	MOTOR HP EA.	DRIVE	RECESS	HEATING COIL: TOT. CAP. MBH	ENT. AIR D.B.	LV. AIR D.B.	ENT. H2O TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	COOLING COIL: TOT. MBH @ 80/67 E.A.T.	ENT. H20 TEMP.	LV. H20 TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	MANUF. MODEL
FC-1	SMALL ANIMALS C128	HC	450	100	0.5	1	ECPM	1	0.25	DIRECT	0' - 10"	22.5	49 °F	95 °F	160 °F	140 °F	0	2.3	3/4"	13.5	44 °F	57 °F	35	2.3	3/4"	DAIKIN FCHH
FC-2	AQUAPONICS C130	HC	500	100	0.5	1	ECPM	1	0.25	DIRECT	0' - 10"	24.4	50 °F	95 °F	160 °F	140 °F	0	2.5	3/4"	15	44 °F	57 °F	35	2.5	3/4"	DAIKIN FCHH
FC-3	METALS CLASSROOM C118	HC	800	225	0.5	2	ECPM	1	0.25	DIRECT	0' - 10"	44.3	44 °F	95 °F	160 °F	140 °F	0	4.5	1"	24	44 °F	57 °F	35	4	1"	DAIKIN FCHH

GAS FIRED MAKE-UP AIR UNITS

UNIT NO.	SERVICE	CFM OF STD. AIR	CFM OF O.A.	EXT. S.P. IN IN. WATER	HEATING SECTION: GAS INPUT MBH	GAS OUTPUT MBH	BURNER TYPE	GAS TYPE	GAS PRESS. IN PSIG	MOTOR HP	FAN TYPE	MOTOR TYPE	SUPPORT	DESIGN DIMENSIONS: LENGTH	WIDTH	HEIGHT	WEIGHT LBS.	MANUF. MODEL
MUA-1	METALS LAB C120	14,500	14,500	0.5	1,700	1,565	MODULATING	NAT. GAS	5	10	PLENUM	ODP	ROOF CURB	171"	52"	49"	1600	GREENHECK DGX
MUA-2	WOODS LAB C131	6,500	6,500	0.5	767	705	MODULATING	NAT. GAS	5	5	PLENUM	ODP	ROOF CURB	160"	44"	46"	1200	GREENHECK DGX

PUMPS

UNIT NO.	SERVICE	PUMP: SIZE	GPM	FEET OF WATER HEAD	MOTOR HP	MOTOR RPM	MOTOR TYPE	VFD	SUPPORT	% PROP. GLYCOL	VIBRATION ISOLATORS: TYPE	MIN. STATIC DEFLECT.	SUCTION DIFFUSER: INLET SIZE	OUTLET SIZE	START-UP STRAINER	MANUF. MODEL
P-1	HOT WATER SYSTEM	3 X 4	450	90	15	1800	ODP	YES	CONC. PAD	0	IB	0' - 1"	5"	4"	YES	B&G SERIES e1532
P-2	P-1 STANDBY	3 X 4	450	90	15	1800	ODP	YES	CONC. PAD	0	IB	0' - 1"	5"	4"	YES	B&G SERIES e1532
P-3	CHILLER PRIMARY	5 X 6	550	40	10	1200	ODP	YES	CONC. PAD	35	IB	0' - 1"	6"	6"	YES	B&G SERIES e1532
P-4	P-3 STANDBY	5 X 6	550	40	10	1200	ODP	YES	CONC. PAD	35	IB	0' - 1"	6"	6"	YES	B&G SERIES e1532
P-5	CHILLED WATER SYSTEM	3 X 4	550	130	25	3600	ODP	YES	CONC. PAD	35	IB	0' - 1"	6"	4"	YES	B&G SERIES e1532
P-6	P-5 STANDBY	3 X 4	550	130	25	3600	ODP	YES	CONC. PAD	35	IB	0' - 1"	6"	4"	YES	B&G SERIES e1532

NOTE: SCHEDULED CHILLED WATER PUMP HEAD ALREADY INCLUDES FACTORS FOR GLYCOL.

BOOSTER COILS

UNIT NO.	SERVICE	WIDTH	HEIGHT	CFM OF STD. AIR	MAX. FACE VEL. H.C.	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	ACC. DOOR SIZE	% PROP. GLYCOL	MAX. H2O P.D. IN FT.	GPM	BRANCH PIPE SIZE	MANUF. MODEL
BC-1	FITNESS A134	16	9	475	475	55 °F	85 °F	160 °F	140 °F	6" x 6"	0	10	1.6	1/2"	DAIKIN
BC-2	CLASSROOM A126	16	9	525	525	55 °F	85 °F	160 °F	140 °F	6" x 6"	0	10	1.7	1/2"	DAIKIN
BC-3	FITNESS A133	16	9	550	550	55 °F	85 °F	160 °F	140 °F	6" x 6"	0	10	1.8	1/2"	DAIKIN
BC-4	OFFICE A121	12	6	175	350	55 °F	85 °F	160 °F	140 °F	6" x 6"	0	10	0.6	1/2"	DAIKIN
BC-5	EXISTING AUDITORIUM	48	36	10,000	850	55 °F	90 °F	160 °F	120 °F	24" x 24"	0	10	19	1 1/2"	DAIKIN
BC-6	EXISTING AUDITORIUM	60	42	15,000	850	55 °F	90 °F	160 °F	120 °F	24" x 24"	0	10	28.5	2"	DAIKIN
BC-7	EXISTING GYM	60	30	9,500	760	55 °F	90 °F	160 °F	120 °F	24" x 24"	0	10	18.1	1 1/2"	DAIKIN
BC-8	EXISTING WRESTLING	48	24	6,000	750	55 °F	90 °F	160 °F	120 °F	24" x 24"	0	10	11.4	1 1/4"	DAIKIN

CABINET HEATERS

UNIT NO.	SERVICE	TYPE	CAP. MBH	CFM OF STD. AIR	MOTOR HP	DRIVE	MOTOR TYPE	SPEED	RECESS	ELEV. ABOVE FIN. FL.	ENT. H20 TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	MANUF. MODEL
CH-1	CORRIDOR A109B	CR	33.7	420	0.2	DIRECT	ECPM	3	0' - 10"	9' - 6"	160 °F	140 °F	0	4.7	1"	RITTLING 04
CH-2	CORRIDOR A109	IW	33.7	420	0.2	DIRECT	ECPM	3	0' - 0"	0' - 8"	160 °F	140 °F	0	4.7	1"	RITTLING 04
CH-3	VESTIBULE C117	IW	33.7	420	0.2	DIRECT	ECPM	3	0' - 0"	0' - 8"	160 °F	140 °F	0	4.7	1"	RITTLING 04
CH-4	STORAGE C129D	CR	17.9	220	0.2	DIRECT	ECPM	3	0' - 10"	8' - 0"	160 °F	140 °F	0	2.5	3/4"	RITTLING 02

DUST COLLECTOR

UNIT NO.	SERVICE	CFM OF STD. AIR	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	DUST RECEIVER	SYSTEM TYPE	MAX DUST KST	SUPPORT	MANUF. MODEL
DC-1	WOODS LAB C131	7,100	9	30	BELT	(2) 55 GAL. DRUM	WOODS	185	STRUCT. STEEL STAND ON CONC. PAD	AQS DCS-30

UNIT HEATERS

UNIT NO.	SERVICE	TYPE	CAP. MBH	CFM OF STD. AIR	MOTOR HP	MOTOR RPM	SPEED	DIFFUSER	ENT. H2O TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	ELEV. ABOVE FIN. FL.	MANUF. MODEL
UH-1	WOODS LAB C131	HORIZ.	140.4	4,590	0.5	1075	1	HORIZ.	160 °F	120 °F	0	11.5	1 1/2"	10' - 0"	MODINE HC 290
UH-2	AUTOS LAB C121	HORIZ.	140.4	4,590	0.5	1075	1	HORIZ.	160 °F	120 °F	0	11.5	1 1/2"	10' - 0"	MODINE HC 290
UH-3	METALS LAB C120	HORIZ.	80.4	3,240	0.33	1075	1	HORIZ.	160 °F	120 °F	0	6.6	1 1/4"	10' - 0"	MODINE HC 165
UH-4	RECEIVING A108	HORIZ.	51.4	2,010	0.13	1625	1	HORIZ.	160 °F	120 °F	0	8.4	1 1/4"	10' - 0"	MODINE HC 108

GENERAL NOTES:

A. THE MECHANICAL CONTRACTOR IS REQUIRED TO VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK AND HE SHALL BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN THE PREPARATION OF HIS BID. LACK OF INFORMATION ON EXISTING CONDITIONS SHALL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.

B. ROUTE ALL NEW PIPING AND DUCTWORK AS REQUIRED TO AVOID CONFLICTS WITH EXISTING PIPING, CONDUIT, STRUCTURE, LIGHTING, ETC. PROVIDE ALL OFFSETS, ELBOWS, ETC. AS REQUIRED TO CONNECT BETWEEN POINTS INDICATED.

C. MECHANICAL CONTRACTOR SHALL VERIFY EXISTING CURRENT CHARACTERISTICS AT JOB SITE PRIOR TO ORDERING EQUIPMENT.

D. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT OUTLET AND GRILLE LOCATIONS WITH THE FINAL LIGHTING LAYOUT.

E. ELECTRICAL, STRUCTURAL, PLUMBING, ETC. REQUIREMENTS FOR THE EQUIPMENT MANUFACTURER LISTED ON THE SCHEDULE IS REFLECTED ON THE DOCUMENTS OF OTHER TRADES. ANY MODIFICATIONS NECESSARY TO ACCOMMODATE A MANUFACTURER OTHER THAN THAT LISTED IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.

F. THE MECHANICAL CONTRACTOR SHALL COORDINATE CONSTRUCTION PHASING WITH THE GENERAL CONTRACTOR AND OWNER. PROVIDE ALL TEMPORARY PIPING, DUCTWORK, VENTILATION, CONTROLS, ETC. AS REQUIRED TO ACCOMMODATE CONSTRUCTION PHASES.

G. THE WORK SHOWN ON THESE CONSTRUCTION DRAWINGS IS TO BE INSTALLED IN ACCORDANCE WITH THE SPECIFICATIONS INCLUDED IN DIVISIONS 23 AND 25 OF THE COMPLETE CONTRACT DOCUMENTS.

EQUIPMENT BRANCH PIPE SIZING TABLE

NOTE: IN THE EVENT THERE IS A DISCREPANCY BETWEEN THE EQUIPMENT SCHEDULE AND THE PIPE SIZING TABLE, THE PIPE SIZING TABLE SHALL TAKE PRECEDENT.

SIZE	GPM
1/2"	0 - 1.6
3/4"	1.7 - 3.5
1"	3.6 - 6.5
1 1/4"	6.6 - 14.0
1 1/2"	14.1 - 21.0
2"	21.1 - 41.0
2 1/2"	41.1 - 66.0
3"	66.1 - 130.0
4"	130.1 - 260.0
5"	260.1 - 480.0
6"	480.1 - 800.0
8"	800.1 - 1550.0
10"	1550.1 - 2500.0
12"	2500.1 - 3600.0

GRILLES AND DIFFUSERS

TAG NO.	SERVICE	NECK SIZE	DUCT CONN. SIZE	VOLUME DAMPER LOCATION	AIR PATTERN	MANUF. MODEL
EG-1	EXHAUST GRILLE	12x12	-	DUCT TAKEOFF	EGGCRATE	PRICE 80
EG-2	EXHAUST GRILLE	16x16	-	DUCT TAKEOFF	EGGCRATE	PRICE 80
EG-3	EXHAUST GRILLE	22x22	-	DUCT TAKEOFF	EGGCRATE	PRICE 80
RG-1	RETURN GRILLE	12x12	-	DUCT TAKEOFF	EGGCRATE	PRICE 80
RG-2	RETURN GRILLE	16x16	14"Ø	DUCT TAKEOFF	EGGCRATE	PRICE 80
RG-3	RETURN GRILLE	22x22	-	DUCT TAKEOFF	EGGCRATE	PRICE 80
RG-4	SIDEWALL RETURN GRILLE	12x12	-	DUCT TAKEOFF	45°	PRICE 530
RG-5	SIDEWALL RETURN GRILLE	40x14	-	DUCT TAKEOFF	45°	PRICE 530
SG-1	PLAQUE DIFFUSER	24x24	8"Ø	DUCT TAKEOFF	4-WAY	PRICE SPD
SG-2	PLAQUE DIFFUSER	24x24	10"Ø	DUCT TAKEOFF	4-WAY	PRICE SPD
SG-3	PLAQUE DIFFUSER	24x24	12"Ø	DUCT TAKEOFF	4-WAY	PRICE SPD
SG-4	SIDEWALL SUPPLY GRILLE	24x4	-	DUCT TAKEOFF	22.5°	PRICE 520
SG-5	SIDEWALL SUPPLY GRILLE	10x8	-	DUCT TAKEOFF	22.5°	PRICE 520
SG-6	SIDEWALL SUPPLY GRILLE	16x8	-	DUCT TAKEOFF	22.5°	PRICE 520
SG-7	SIDEWALL SUPPLY GRILLE	10x10	-	DUCT TAKEOFF	22.5°	PRICE 520
SG-8	SIDEWALL SUPPLY GRILLE	18x12	-	DUCT TAKEOFF	22.5°	PRICE 520
TG-1	TRANSFER GRILLE	12x12	-	-	EGGCRATE	PRICE 80
TG-2	TRANSFER GRILLE	22x22	-	-	EGGCRATE	PRICE 80
TG-3	SIDEWALL TRANSFER GRILLE	12x12	-		45°	PRICE 530

SYMBOLS

HS	HOT WATER SUPPLY
HR	HOT WATER RETURN
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
G	GAS
PCS	PRIMARY CHILLED WATER SUPPLY
PCR	PRIMARY CHILLED WATER RETURN
BV	BALL VALVE
	BUTTERFLY VALVE
CBV	CALIBRATED BALANCING VALVE
	FLOW DIRECTION
	GAS VALVE
	UNION
	FLEXIBLE DUCT
VD	MANUAL VOLUME DAMPER
CD	CONTROL DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
CDA	COMBINATION CONTROL DAMPER AND AIR MEASURING STATION WITH ACCESSIBLE DUCT ACCESS DOOR
FD	FIRE DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
FSD	COMBINATIONS SMOKE/FIRE DAMPER WITH ACCESSIBLE DUCT ACCESS DOOR
	ACOUSTICAL INSULATION LINING ON INSIDE OF DUCT. LISTED DIMENSION IS CLEAR INSIDE DIMENSION.
	TURNING VANES
	BRANCH TAKE-OFF
LPD	LOW PRESSURE FLEX. DUCT FITTING WITH MANUAL VOLUME DAMPER
UC	1" DOOR UNDERCUT. DOOR UNDERCUT BY GEN. CONTR.
T	ROOM SENSOR OR THERMOSTAT
S	REMOTE MOUNTED SWITCH
	CONNECT TO EXISTING DUCTWORK OR PIPING. FIELD VERIFY EXACT REQUIREMENTS.
	STATIC PRESSURE SENSOR

HVAC SHEET INDEX		HVAC SHEET INDEX	
MSA JOB No. 00377241		MSA JOB No. 00377241	
H0.1	SCHEDULES	H2.2A	UNIT A - SECOND FLOOR DUCTWORK PLAN
H0.2	SCHEDULES	H2.2B	UNIT B - SECOND FLOOR DUCTWORK PLAN
H1.1	OVERALL FIRST FLOOR DEMOLITION PLAN	H2.2C	UNIT C - SECOND FLOOR DUCTWORK PLAN
H1.1A	UNIT A - FIRST FLOOR DEMOLITION PLAN	H2.2F	UNIT F - SECOND FLOOR DUCTWORK PLAN
H1.1B	UNIT B - FIRST FLOOR DEMOLITION PLAN	H2.2G	UNIT G - SECOND FLOOR DUCTWORK PLAN
H1.1C	UNIT C - FIRST FLOOR DEMOLITION PLAN	H2.3	OVERALL ROOF PLAN
H1.1F	UNIT F - FIRST FLOOR DEMOLITION PLAN	H3.1A	UNIT A - FIRST FLOOR PIPING PLAN
H1.2	OVERALL SECOND FLOOR DEMOLITION PLAN	H3.1B	UNIT B - FIRST FLOOR PIPING PLAN
H1.2A	UNIT A - SECOND FLOOR DEMOLITION PLAN	H3.1C	UNIT C - FIRST FLOOR PIPING PLAN
H1.2B	UNIT B - SECOND FLOOR DEMOLITION PLAN	H3.1F	UNIT F - FIRST FLOOR PIPING PLAN
H1.2F	UNIT F - SECOND FLOOR DEMOLITION PLAN	H3.2A	UNIT A - SECOND FLOOR PIPING PLAN
H1.2G	UNIT G - SECOND FLOOR DEMOLITION PLAN	H3.2B	UNIT B - SECOND FLOOR PIPING PLAN
H1.3	OVERALL ROOF DEMOLITION PLAN	H3.2F	UNIT F - SECOND FLOOR PIPING PLAN
H2.1	OVERALL FIRST FLOOR PLAN	H3.2G	UNIT G - SECOND FLOOR PIPING PLAN
H2.1A	UNIT A - FIRST FLOOR DUCTWORK PLAN	H4.1	GYM MECHANICAL ROOM PLANS
H2.1B	UNIT B - FIRST FLOOR DUCTWORK PLAN	H4.2	WOODS AND AUTO MECHANICAL MEZZANINE PLANS
H2.1C	UNIT C - FIRST FLOOR DUCTWORK PLAN	H4.3	AUDITORIUM & AQUATICS MECHANICAL ROOM PLANS
H2.1F	UNIT F - FIRST FLOOR DUCTWORK PLAN	H6.1	DETAILS
H2.2	OVERALL SECOND FLOOR PLAN	H6.2	DETAILS

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

ENGINEERING DESIGN BY MSA
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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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H0.1

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CRAIG D. NESSMAN
E-37392
MUSKEGO
WI
12/19/2025

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UTILITY EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	MAX. O.V.	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	MOTOR TYPE	FAN DIA.	FAN WHEEL TYPE	FAN ROTATION	FAN DISCHARGE	W.P. COVER	DAMPER	SUPPORT	VIBRATION ISOLATORS		MANUF. MODEL
															TYPE	MIN. STATIC DEFLECT.	
UE-1	WELDING EXHAUST	4,900	2650	2.5	5	BELT	ODP	18"	AF	CW	UBD	YES	MOTORIZED	EQ. SUPP. RAILS	C	1"	COOK CPS-A-180
UE-2	WELDING EXHAUST	4,200	2300	2.5	3	BELT	ODP	18"	AF	CW	UBD	YES	MOTORIZED	EQ. SUPP. RAILS	C	1"	COOK CPS-A-180
UE-3	PLASMA TABLE HOOD	3,600	2300	1.5	2	BELT	ODP	16 1/2"	AF	CW	UBD	YES	MOTORIZED	EQ. SUPP. RAILS	C	1"	COOK CPS-A-165
UE-4	LASER ENGRAVER	500	1875	6	2	BELT	ODP	10"	BI	CW	UBD	YES	MOTORIZED	EQ. SUPP. RAILS	C	1"	COOK MH-70

IN-LINE EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	EXT. S.P. IN IN. WATER	MAX. O.V. FPM	MOTOR HP	DRIVE	FAN DIA.	MOTOR TYPE	VOLUME CONTROL	SUPPORT	VIBRATION ISOLATORS		MANUF. MODEL
											TYPE	MIN. STATIC DEFLECT.	
IF-1	FCS LAB FLUSHING	2,500	0.75	900	1	DIRECT	1' - 3"	ODP	VFD	SUSPENDED	D	1"	COOK SQND-150

VARIABLE AIR VOLUME BOXES

BOX						HEATING COIL							
UNIT NO.	SERVICE	CFM OF STD. AIR	MIN. CFM OF STD. AIR	UPSTREAM DUCT SIZE	MAX. AIR P.D. IN IN. OF WATER	HEATING CFM OF STD. AIR	ENT. AIR TEMP.	LV. AIR TEMP.	ENT. H2O TEMP.	LV. H2O TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	MANUF. MODEL
V-1	SCHOOL STORE A100A	300	90	6"Ø	1	300	55 °F	85 °F	160 °F	120 °F	0	0.5	1/2"	PRICE SDV
V-2	CLEANING A106	275	80	6"Ø	1	275	55 °F	85 °F	160 °F	120 °F	0	0.4	1/2"	PRICE SDV

ROOF EXHAUSTERS

UNIT NO.	SERVICE	CFM OF STD. AIR	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR HP	DRIVE	MOTOR TYPE	VOLUME CONTROL	DAMPER	SUPPORT	MANUF. MODEL
RE-1	WOODS LAB FLUSHING	3,000	14	0.5	0.75	DIRECT	ODP	VFD	BY B.A.S.	ROOF CURB	COOK ACRUD-195
RE-2	METALS LAB FLUSHING	3,000	14	0.5	0.75	DIRECT	ODP	VFD	BY B.A.S.	ROOF CURB	COOK ACRUD-195
RE-3	XAHU-8 O.A. RELIEF	1,650	17	0.5	0.75	DIRECT	ECPM	ECM/VFD	BY B.A.S.	ROOF CURB	COOK ACRUD-VF-165
RE-4	XAHU-8 ECONOMIZER RELIEF	9,700	23	0.5	3	DIRECT	ODP	VFD	BY B.A.S.	ROOF CURB	COOK ACRUD-270
RE-5	KITCHEN HOOD	3,100	20	1.5	2	DIRECT	ODP	VFD	NONE	ROOF CURB	COOK VCRD-180
RE-6	KITCHEN HOOD	2,500	17	1.5	2	DIRECT	ODP	VFD	NONE	ROOF CURB	COOK VCRD-180
RE-7	FCS LAB HOOD	2,200	21	1.5	2	DIRECT	ODP	VFD	NONE	ROOF CURB	COOK VCRD-165
RE-8	DISHWASH HOOD	1,000	21	1	0.5	DIRECT	ECPM	ECM/POT.	BY B.A.S.	ROOF CURB	COOK ACRUD-VF-150
RE-9	DISHWASH HOOD	1,000	21	1	0.5	DIRECT	ECPM	ECM/POT.	BY B.A.S.	ROOF CURB	COOK ACRUD-VF-150
RE-10	TOILET A107E AND LOCKERS A107D	250	7	0.5	0.167	DIRECT	ECPM	ECM/POT.	BY B.A.S.	ROOF CURB	COOK ACRUD-EC-90

HEAT EXCHANGERS

UNIT NO.	SERVICE	ENT. COIL TEMP.	LV. COIL TEMP.	% PROP. GLYCOL	GPM	BRANCH PIPE SIZE	ENT. H20 TEMP.	LV. H20 TEMP.	GPM	BRANCH PIPE SIZE	HEAT EXCH. TYPE	MAX. P.D. IN FT. WATER	MANUF. MODEL
HX-1	AHU-B2	120 °F	160 °F	35	13	1 1/4"	180 °F	140 °F	13	1 1/4"	PLATE	10	B&G BP405-50

NOTE: HX-1 IS UNDER ALTERNATE BID H1

CEILING EXHAUST FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	TYPE	MAX. SONES	EXT. S.P. IN IN. WATER	MOTOR WATTS	MOTOR RPM	MOTOR TYPE	VOLUME CONTROL	MANUF. MODEL
CE-1	SMALL ANIMALS C128	150	CLG.	4	0.5	35 W	1675	ECPM	ECM/POT.	COOK GC-186
CE-2	AQUAPONICS C130	150	CLG.	4	0.5	35 W	1675	ECPM	ECM/POT.	COOK GC-186
CE-3	CUSTODIAN A106A	150	CLG.	4	0.5	35 W	1675	ECPM	ECM/POT.	COOK GC-186
CE-4	DATA C108	200	CLG.	6	0.5	60 W	1675	ECPM	ECM/POT.	COOK GC-186
CE-6	EL. EQUIP. A124	150	CLG.	4	0.5	35 W	1675	ECPM	ECM/POT.	COOK GC-186

IN-LINE PUMPS

UNIT NO.	SERVICE	SIZE	GPM	FEET OF WATER HEAD	MOTOR HP	MOTOR RPM	MOTOR TYPE	SUPPORT	MANUF. MODEL
IP-1	AHU-B2	1.25 x 1.25	13	30	0.5	3531	ECPM	PIPE	B&G XL 55-45
IP-2	AHU-5	1.25 x 1.25	22	30	0.5	3755	ECPM	PIPE	B&G XL 55-45
IP-3	AHU-6	1.5 x 1.5	57	30	1	2594	ECPM	PIPE	B&G XL 65-130
IP-4	AHU-10	1.25 x 1.25	9	30	0.5	3465	ECPM	PIPE	B&G XL 55-45
IP-5	AHU-11	1.5 x 1.5	37	30	1	2460	ECPM	PIPE	B&G XL 65-130
IP-6	RERU-1	1.25 x 1.25	9	30	0.5	3465	ECPM	PIPE	B&G XL 55-45
IP-7	RERU-2	1.25 x 1.25	5	30	0.5	3409	ECPM	PIPE	B&G XL 55-45
IP-8	BCU-1	1.25 x 1.25	8	30	0.5	3450	ECPM	PIPE	B&G XL 55-45
IP-9	BCU-2	1.25 x 1.25	6	30	0.5	3423	ECPM	PIPE	B&G XL 55-45
IP-10	BCU-3	1.25 x 1.25	3	30	0.16666	4141	ECPM	PIPE	B&G XL 36-45
IP-11	BCU-4	1.25 x 1.25	6	30	0.5	3423	ECPM	PIPE	B&G XL 55-45
IP-12	BC-5	1.25 x 1.25	19	30	0.5	3667	ECPM	PIPE	B&G XL 55-45
IP-13	BC-6	1.25 x 1.25	29	30	0.5	4012	ECPM	PIPE	B&G XL 55-45

NOTE: IP-1 IS UNDER ALTERNATE BID H1

COMBINATION FIRE/SMOKE DAMPERS

UNIT NO.	LOCATION	ASSOCIATED SYSTEM	DUCT SIZE IN (IN.)			SMOKE DETECTOR	OVAL CONN. REQ.	MANUF. MODEL
			WIDTH	HEIGHT	DIAMETER			
FSD-1	SERVERY A107B	AHU-10	42	24		YES	NO	RUSKIN
FSD-2	SERVERY A107B	AHU-10	36	24		YES	NO	RUSKIN
FSD-3	CONCESSION/CAFE A100B	XAHU-8	64	28		YES	NO	RUSKIN
FSD-4	CUSTODIAN A106A	AHU-10	36	24		YES	NO	RUSKIN
FSD-5	SERVERY A107B	TRANSFER	48	24		YES	NO	RUSKIN
FSD-6	OFFICE A121	RERU-2	28	16		YES	NO	RUSKIN
FSD-7	OFFICE A121	RERU-2	26	14		YES	NO	RUSKIN
FSD-8	FITNESS A133	RERU-2	16	10		YES	NO	RUSKIN
FSD-9	FITNESS A133	RERU-2	12	12		YES	NO	RUSKIN
FSD-10	FITNESS A134	RERU-2	12	12		YES	NO	RUSKIN
FSD-11	C.R. A126	RERU-2	12	12		YES	NO	RUSKIN
FSD-12	C.R. A126	RERU-2	16	10		YES	NO	RUSKIN
FSD-13	CONCESSION/CAFE A100B	XAHU-8	12	12		YES	NO	RUSKIN
FSD-14	SCHOOL STORE A100A	XAHU-8	12	12		YES	NO	RUSKIN
FSD-15	TOILET A107E	AHU-10	40	28		YES	NO	RUSKIN
FSD-16	MECHANICAL D173	XAHU-8	62	26		YES	NO	RUSKIN

BUFFER TANKS

UNIT NO.	SERVICE	TYPE	SYSTEM PIPE SIZE	TANK DIA.	TANK HEIGHT	CAPACITY GAL.	SUPPORT	MANUF. MODEL
BT-1	CHILLED WATER	VERT.	6"	30"	83"	211	CONC. PAD	TACO BTL
BT-2	CHILLED WATER	VERT.	6"	30"	83"	211	CONC. PAD	TACO BTL

EXPANSION TANKS

UNIT NO.	SERVICE	TYPE	TANK DIA.	TANK HEIGHT	CAPACITY GAL.	SUPPORT	MANUF. MODEL
EXP-1	HOT WATER	VERT.	36"	88"	317	CONC. PAD	B&G SERIES B
EXP-2	CHILLED WATER	VERT.	24"	55"	80	CONC. PAD	B&G SERIES B

DESTRATIFICATION FANS

UNIT NO.	SERVICE	CFM OF STD. AIR	FAN DIA	MOTOR WATTS	SOLID STATE SPEED CONTROLLER	BLADE HEIGHT A.F.F.	MANUF. MODEL
DS-1	ROBOTICS C116	3,861	4' - 0"	45 W	YES	18' - 0"	QMARK
DS-2	ROBOTICS C116	3,861	4' - 0"	45 W	YES	18' - 0"	QMARK

MAGNETIC AIR & DIRT SEPARATORS

UNIT NO.	SERVICE	SYSTEM PIPE SIZE	GPM	SUPPORT	MANUF. MODEL
MS-1	HOT WATER	5"	450	SUSPENDED	CALEFFI NA546M
MS-2	CHILLED WATER	6"	550	SUSPENDED	CALEFFI NA546M

WEATHERPROOF LOUVERS

UNIT NO.	SERVICE	NOM. WIDTH (IN.)	NOM. HEIGHT (IN.)	CFM	MAX FREE AREA VELOCITY (FPM)	MANUF. MODEL
WPL-1	FC-1	16	16	450	1,000	RUSKIN ELF6375DX
WPL-2	FC-2	16	16	500	1,000	RUSKIN ELF6375DX
WPL-3	FC-3	16	16	800	1,000	RUSKIN ELF6375DX
WPL-4	IF-1	48	16	2,500	1,000	RUSKIN ELF6375DX

UNDERCUT DOORS

ROOM NAME/NO.	SYMBOL	DESCRIPTION	HEIGHT OF UNDERCUT
TOILET A107E	UC	DOOR UNDERCUT	0' - 1"

VARIABLE FREQUENCY DRIVES

UNIT NO.	SERVICE	CONTROL TYPE	MANUF. MODEL
VFD-1	P-1	PRESS. DIFF. CONT.	ABB ACH-580
VFD-2	P-2	PRESS. DIFF. CONT.	ABB ACH-580
VFD-3	P-3	BALANCING	ABB ACH-580
VFD-4	P-4	BALANCING	ABB ACH-580
VFD-5	P-5	PRESS. DIFF. CONT.	ABB ACH-580
VFD-6	P-6	PRESS. DIFF. CONT.	ABB ACH-580
VFD-7	AHU-5	SZVAV	ABB ACH-580
VFD-8	AHU-6	SZVAV	ABB ACH-580
VFD-9	AHU-10	VAV	ABB ACH-580
VFD-10	AHU-11	VAV	ABB ACH-580
VFD-11	AHU-B2	BALANCING	ABB ACH-580

NOTE: PLEASE REFER TO THE MOTOR STARTERS SCHEDULE FOR MOTOR HP AND VOLTAGE REQUIREMENTS.

MOTOR STARTERS

DESCRIPTION	MCA	MOCP	MOTOR HP	VOLTAGE	PHASE	KW	STARTER FURNISHED BY	STARTER INSTALLED BY	STARTER LOCATION	STARTER TYPE	REMARKS
				120	1		HVAC	HVAC	PRE-WIRED	-	
AHU-5			20	480	3		HVAC	EC	NEAR UNIT	VFD	
AHU-6			15	480	3		HVAC	EC	NEAR UNIT	VFD	
AHU-10			15	480	3		HVAC	EC	NEAR UNIT	VFD	
AHU-11			30	480	3		HVAC	EC	NEAR UNIT	VFD	
AHU-B2			2	480	3		HVAC	EC	NEAR UNIT	VFD	
BAS-1	15	15		120	1		HVAC	HVAC	PRE-WIRED	-	
BCU-1			4.42	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD	UNIT HAS (2) ECPM MOTORS
BCU-2			4.42	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD	
BCU-3			0.75	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD	
BCU-4			4.42	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD	
CE-1				120	1	0.04	HVAC	HVAC	PRE-WIRED	ECM/POT.	
CE-2				120	1	0.04	HVAC	HVAC	PRE-WIRED	ECM/POT.	
CE-3				120	1	0.04	HVAC	HVAC	PRE-WIRED	ECM/POT.	
CE-4				120	1	0.06	HVAC	HVAC	PRE-WIRED	ECM/POT.	
CE-6				120	1	0.04	HVAC	HVAC	PRE-WIRED	ECM/POT.	
CH-1			0.2	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-2			0.2	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-3			0.2	120	1		HVAC	HVAC	PRE-WIRED	-	
CH-4			0.2	120	1		HVAC	HVAC	PRE-WIRED	-	
DC-1			30	480	3		HVAC	EC	NEAR UNIT		
DC-1 CONTROL PANEL	15	15		120	1		HVAC	HVAC	PRE-WIRED	-	
DS-1				120	1	0.05	HVAC	EC	NEAR UNIT	SP. SW.	
DS-2				120	1	0.05	HVAC	EC	NEAR UNIT	SP. SW.	
FC-1			0.25	120	1		HVAC	HVAC	PRE-WIRED	-	
FC-2			0.25	120	1		HVAC	HVAC	PRE-WIRED	-	
FC-3			0.25	120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-1				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-2				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-3				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-4				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-5				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-6				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-7				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-8				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-9				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-10				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-11				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-12				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-13				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-14				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-15				120	1		HVAC	HVAC	PRE-WIRED	-	
FSD-16				120	1		HVAC	HVAC	PRE-WIRED	-	
IF-1			1	208	3		HVAC	EC	NEAR UNIT	VFD	
IP-1			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-2			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-3			1	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-4			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-5			1	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-6			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-7			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-8			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-9			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-10			0.16666	120	1		HVAC	HVAC	PRE-WIRED	-	
IP-11			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-12			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
IP-13			0.5	208	1		HVAC	HVAC	PRE-WIRED	-	
MUA-1			10	480	3		HVAC	HVAC	PRE-WIRED	-	
MUA-2			5	480	3		HVAC	HVAC	PRE-WIRED	-	
P-1			15	480	3		HVAC	EC	NEAR UNIT	VFD	
P-2			15	480	3		HVAC	EC	NEAR UNIT	VFD	
P-3			10	480	3		HVAC	EC	NEAR UNIT	VFD	
P-4			10	480	3		HVAC	EC	NEAR UNIT	VFD	
P-5			25	480	3		HVAC	EC	NEAR UNIT	VFD	
P-6			25	480	3		HVAC	EC	NEAR UNIT	VFD	
RE-1			0.75	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-2			0.75	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-3			0.75	480	3		HVAC	HVAC	PRE-WIRED	ECM/VFD	
RE-4			3	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-5			2	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-6			2	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-7			2	480	3		HVAC	HVAC	PRE-WIRED	VFD	
RE-8			0.5	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT.	
RE-9			0.5	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT.	
RE-10			0.167	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT.	
RERU-1	15	20		480	3		HVAC	HVAC	PRE-WIRED	-	
RERU-2	15	20		480	3		HVAC	HVAC	PRE-WIRED	-	
UE-1			5	480	3		HVAC	HVAC	PRE-WIRED	VFD	
UE-2			3	480	3		HVAC	HVAC	PRE-WIRED	VFD	
UE-3			2	480	3		HVAC	HVAC	PRE-WIRED	VFD	
UE-4			2	480	3		HVAC	HVAC	PRE-WIRED	VFD	
UH-1			0.5	120	1		HVAC	EC	NEAR UNIT	MAN.	
UH-2			0.5	120	1		HVAC	EC	NEAR UNIT	MAN.	
UH-3			0.33	120	1		HVAC	EC	NEAR UNIT	MAN.	
UH-4			0.13	120	1		HVAC	EC	NEAR UNIT	MAN.	
VEF-1			1	208	3		HVAC	HVAC	PRE-WIRED	-	
VEF-2			1	208	3		HVAC	HVAC	PRE-WIRED	-	
XGFS-1	1	15		120	1		HVAC	HVAC	PRE-WIRED	-	
XUH-10			0.25	120	1		HVAC	EC	NEAR UNIT	MAN.	

WEATHERPROOF HOODS

UNIT NO.	SERVICE	TYPE	CFM OF STD. AIR	THROAT DIMENSIONS		MIN. HOOD FREE AREA (% OF THROAT AREA)	MIN. OPENING HEIGHT ABOVE ROOF	SUPPORT	MANUF. MODEL
				WIDTH	LENGTH				
WPH-1	AHU-10	INTAKE	10,000	3' - 0"	3' - 0"	200%	3' - 0"	ROOF CURB	COOK
WPH-2	BCU-2	INTAKE	2,800	2' - 0"	1' - 6"	200%	3' - 0"	ROOF CURB	COOK
WPH-3	BCU-3	INTAKE	1,725	1' - 6"	1' - 6"	200%	3' - 0"	ROOF CURB	COOK
WPH-4	BCU-4	INTAKE	2,800	2' - 0"	1' - 6"	200%	3' - 0"	ROOF CURB	COOK
WPH-5	AHU-5	INTAKE	15,700	4' - 0"	4' - 0"	200%	3' - 0"	ROOF CURB	COOK
WPH-6	AHU-6	INTAKE	12,500	3' - 6"	3' - 6"	200%	3' - 0"	ROOF CURB	COOK

VEHICLE EXTRACTION HOSE REEL AND FAN

UNIT NO.	SERVICE	CFM	HOSE DIAMETER	HOSE LENGTH	MOTOR HP	MANUF. MODEL
VEF-1	AUTOS LAB C121	600	5	34' - 0"	1	MONOXIVENT 9000 SERIES
VEF-2	AUTOS LAB C121	600	5	34' - 0"	1	MONOXIVENT 9000 SERIES

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

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MSA
(800) 362-4505 • www.msa-ps.com

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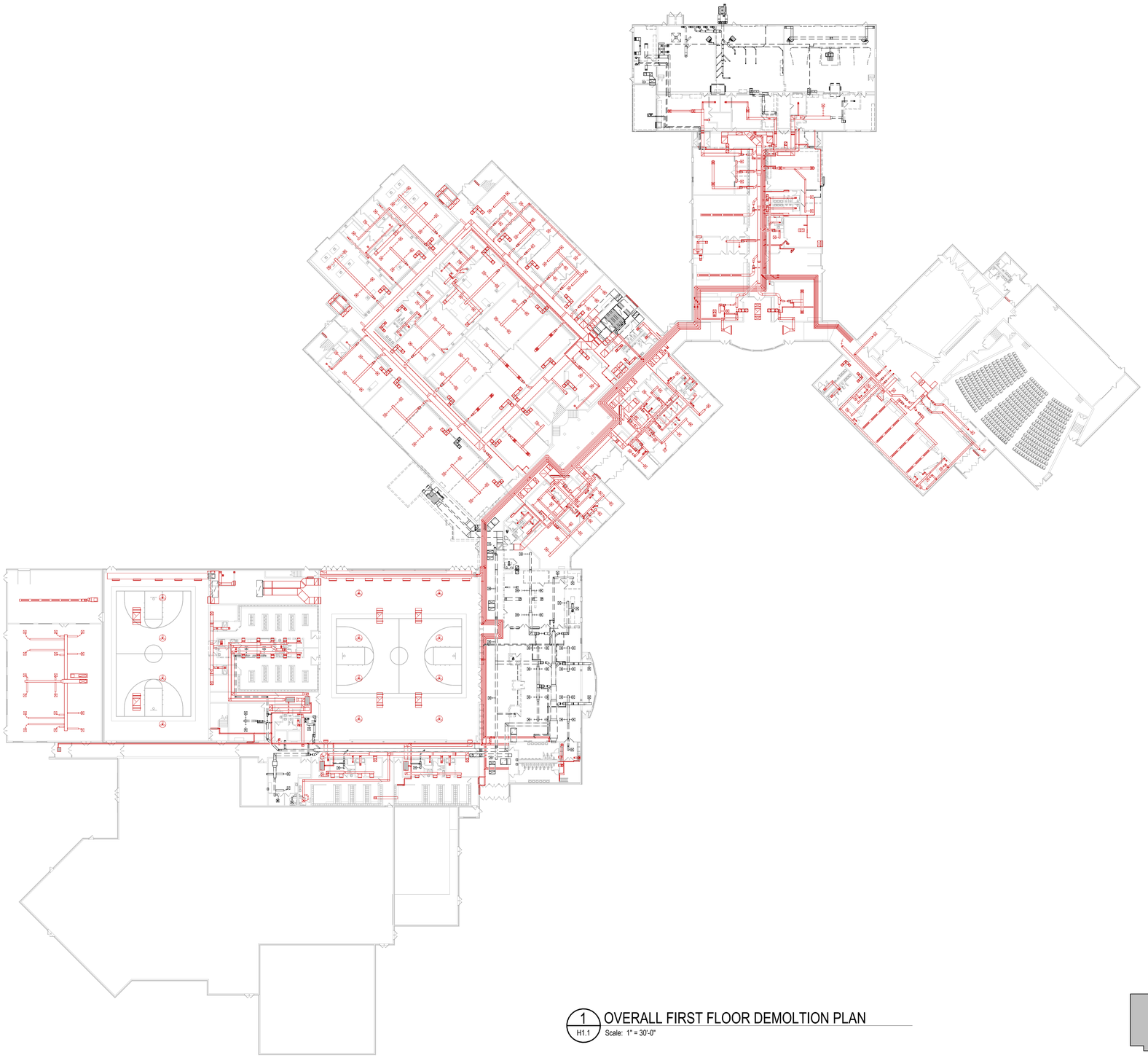
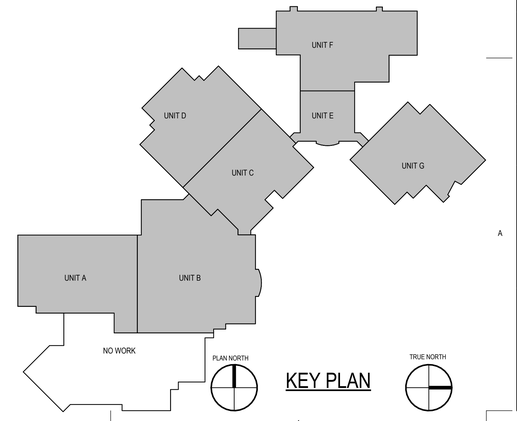
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES	
HEX KEY	DESCRIPTION



1 H1.1 OVERALL FIRST FLOOR DEMOLTION PLAN
Scale: 1" = 30'-0"



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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MSA
(800) 362-4505 • www.msa-ps.com

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WHITEWATER HIGH SCHOOL
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OVERALL FIRST FLOOR DEMOLITION PLAN

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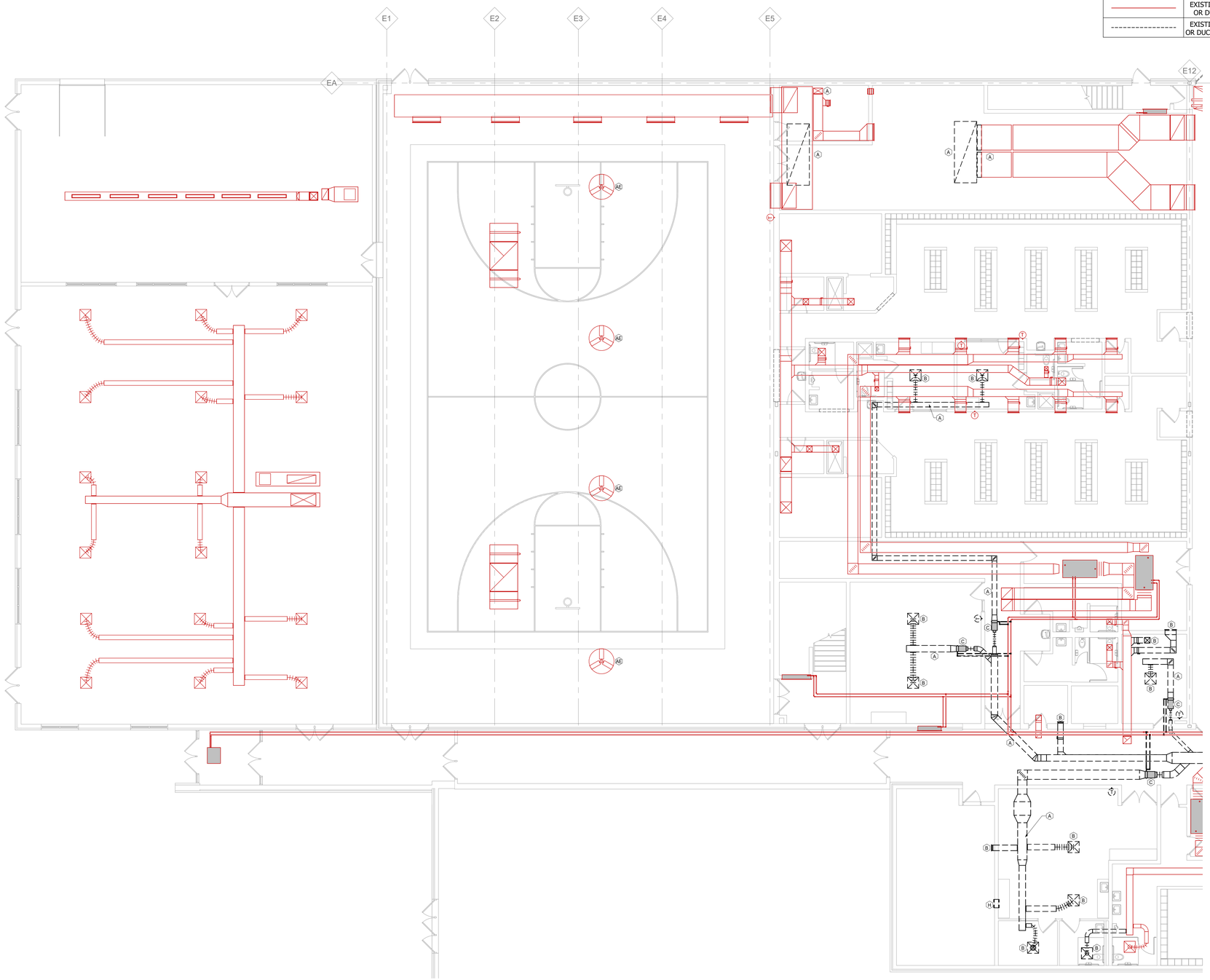
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES

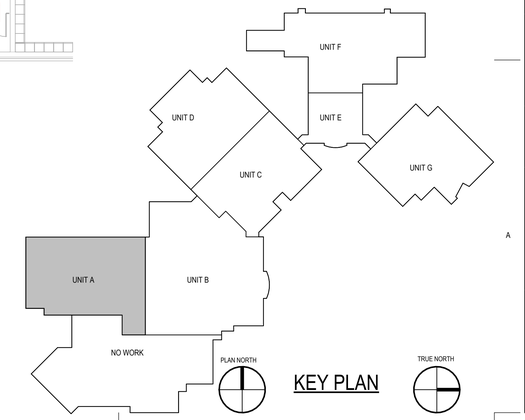
HEX KEY	DESCRIPTION
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AE	REMOVE EXISITING CONTROLS FROM EXISTING FAN. SEE NEW WORK PLAN.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
C	REMOVE EXISTING VAV BOX, BRANCH DUCTWORK, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
H	REMOVE EXISTING SIDEWALL TRANSFER GRILLE. SEE ARCHITECTURAL PLANS FOR WALL INFILL REQUIREMENTS.



1 H1.1A FIRST FLOOR DEMOLITION PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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UNIT A - FIRST FLOOR DEMOLITION PLAN

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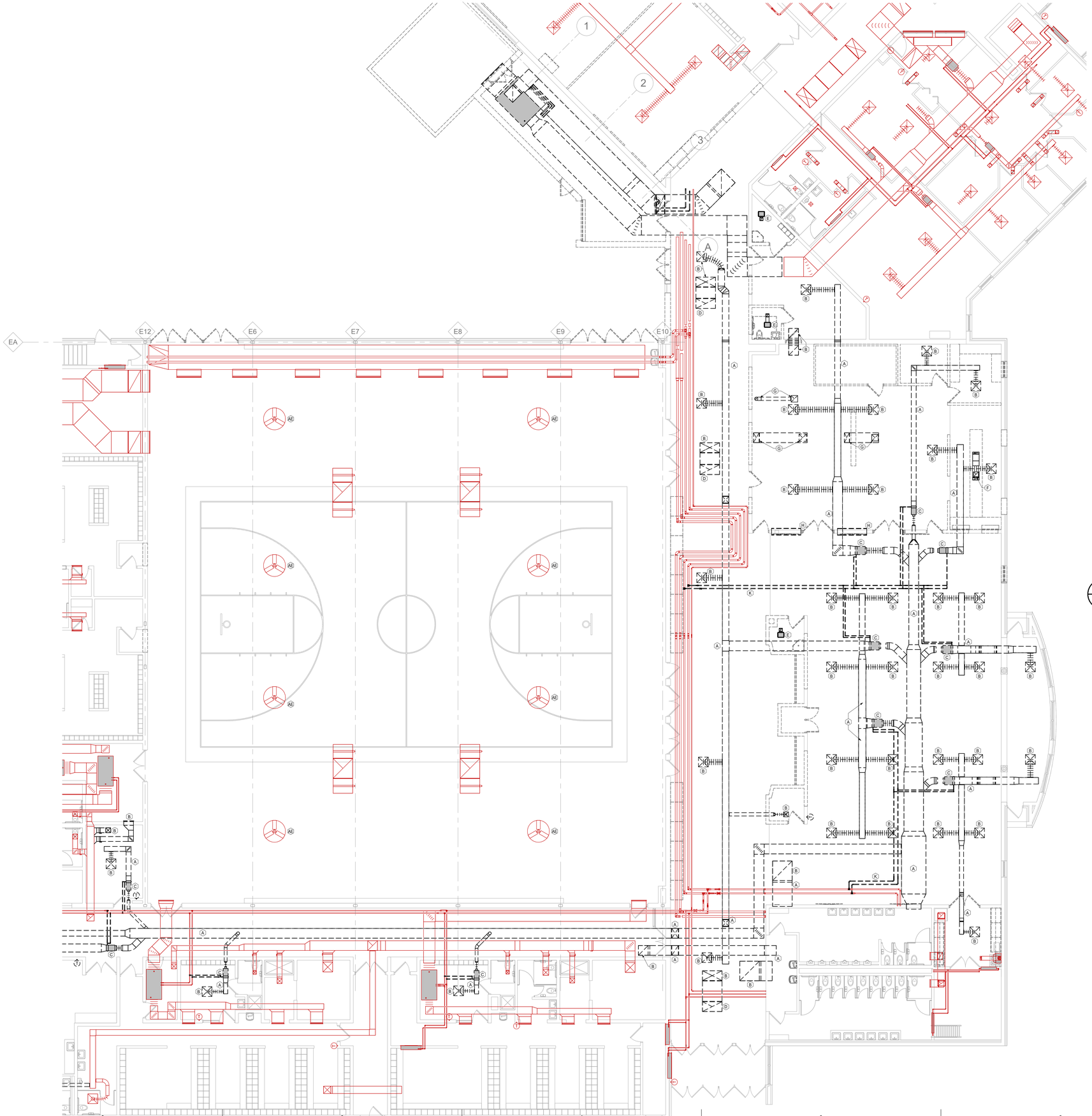


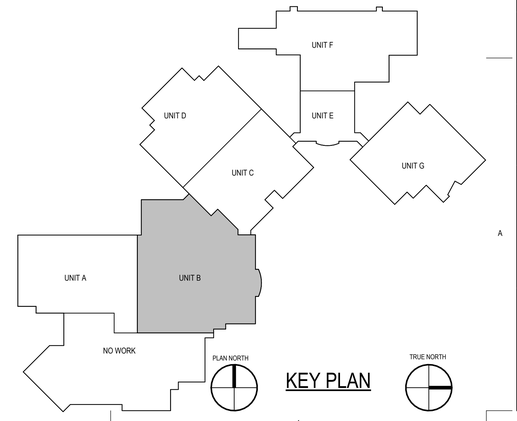
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AE	REMOVE EXISITING CONTROLS FROM EXISTING FAN. SEE NEW WORK PLAN.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
C	REMOVE EXISTING VAV BOX, BRANCH DUCTWORK, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.
D	REMOVE EXISTING RELIEF HOOD AND ASSOCIATED DUCTWORK. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
E	REMOVE EXISTING CEILING EXHAUSTER, ASSOCIATED DUCTWORK AND ROOFCAP. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
F	REMOVE EXISTING DISHWASHER EXHAUST HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
G	REMOVE EXISTING KITCHEN EXHAUST HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
H	REMOVE EXISTING SIDEWALL TRANSFER GRILLE. SEE ARCHITECTURAL PLANS FOR WALL INFILL REQUIREMENTS.
K	REMOVE EXISTING PIPING TO POINT INDICATED.

1 H1.1B — FIRST FLOOR DEMOLITION PLAN - UNIT B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

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UNIT B - FIRST FLOOR DEMOLITION PLAN

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DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

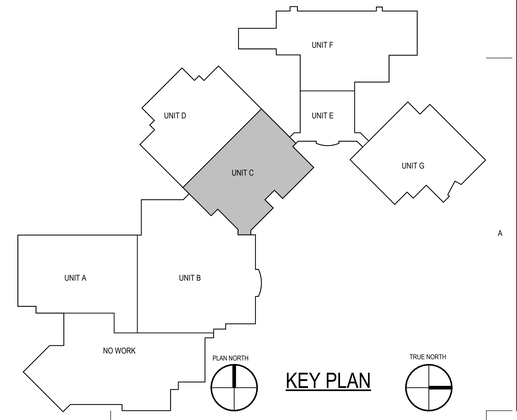
KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
I	REMOVE EXISTING AIR HANDLING UNIT, DX COOLING COIL, REFRIGERANT PIPING, ROOF MOUNTED CONDENSING UNIT, WEATHERPROOF LOUVER, SUPPLY DUCTWORK TO POINT INDICATED, AND PNEUMATIC CONTROL COMPONENTS.
K	REMOVE EXISTING PIPING TO POINT INDICATED.
N	REMOVE EXISTING UNIT HEATER, BRANCH PIPING, THERMOSTAT AND CONTROL. CAP PIPING AT MAINS.
U	REMOVE EXISTING AIR HANDLING UNIT, DUCTWORK AS INDICATED, DAMPERS, BRANCH PIPING, AND CONTROL. WEATHERPROOF LOUVER TO REMAIN. CAP PIPING AT MAINS.

STORE EXISTING UNIT FOR TEMPORARY RECONNECTION AND USE DURING CONSTRUCTION. COORDINATE PHASING WITH THE CONSTR. MANAGER.

1 H1.1C FIRST FLOOR DEMOLITION PLAN - UNIT C

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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Sheet Title:
UNIT C - FIRST FLOOR DEMOLITION PLAN

Sheet Number:
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DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

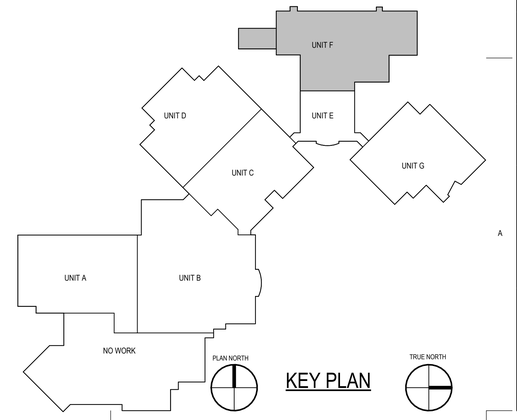
KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AF	REMOVE EXISTING GRILLE/DIFFUSER. STORE FOR REINSTALLATION IN NEW CEILING GRID.
AJ	REMOVE EXISTING THERMOSTAT AND STORE FOR REINSTALLATION
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
H	REMOVE EXISTING SIDEWALL TRANSFER GRILLE. SEE ARCHITECTURAL PLANS FOR WALL INFILL REQUIREMENTS.
K	REMOVE EXISTING PIPING TO POINT INDICATED.
L	REMOVE EXISTING CANOPY HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
M	REMOVE EXISTING SLOT HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
N	REMOVE EXISTING UNIT HEATER, BRANCH PIPING, THERMOSTAT AND CONTROL. CAP PIPING AT MAINS.
O	REMOVE EXISTING ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
P	REMOVE EXISTING DUST COLLECTOR, ASSOCIATED DUCTWORK AND CONTROL COMPONENTS.
Q	REMOVE EXISTING FLEXIBLE EXHAUST TUBES, EXHAUST FAN, ASSOCIATED DUCTWORK AND ROOFCAP. PATCH ROOF OPENING TO MATCH EXISTING CONSTRUCTION.

COORD. REMOVAL OF EXISTING GAS METER FOR RELOCATION WITH LOCAL UTILITY.

1 H1.1F FIRST FLOOR DEMOLITION PLAN - UNIT F

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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Milwaukee
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Milwaukee, Wisconsin 53204
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UNIT F - FIRST FLOOR DEMOLITION PLAN

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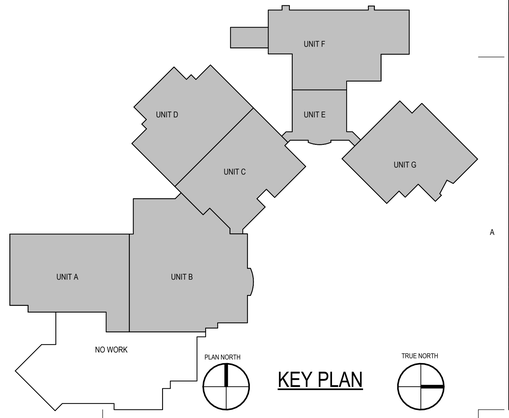
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES	
HEX KEY	DESCRIPTION



1 H1.2 OVERALL SECOND FLOOR DEMOLITION PLAN

Scale: 1" = 30'-0"



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Moline • Saint Paul

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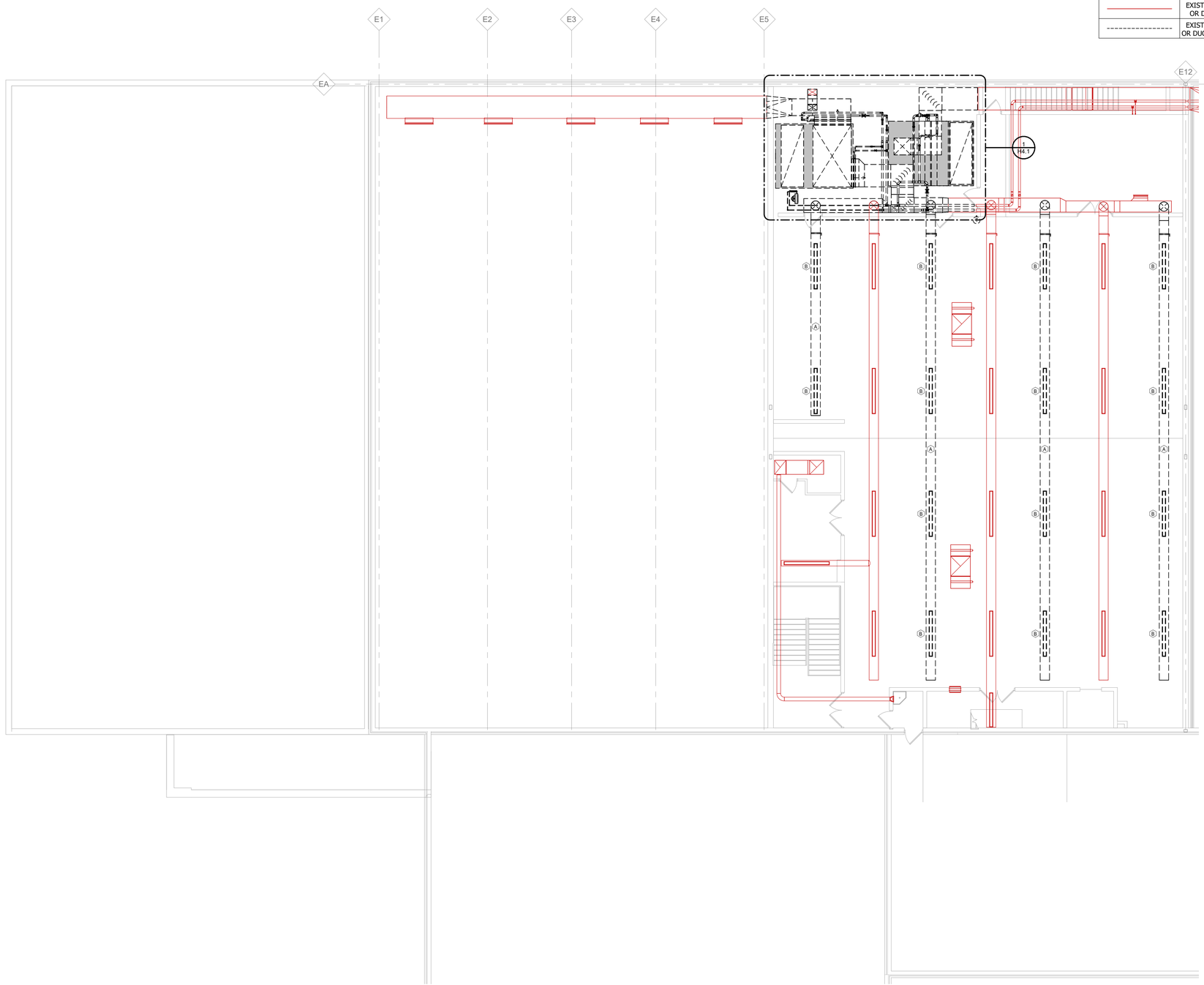
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

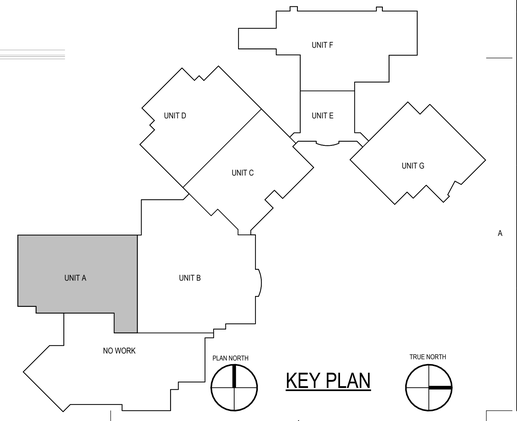
KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.



1 / H1.2A SECOND FLOOR DEMOLITION PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT A - SECOND FLOOR DEMOLITION PLAN

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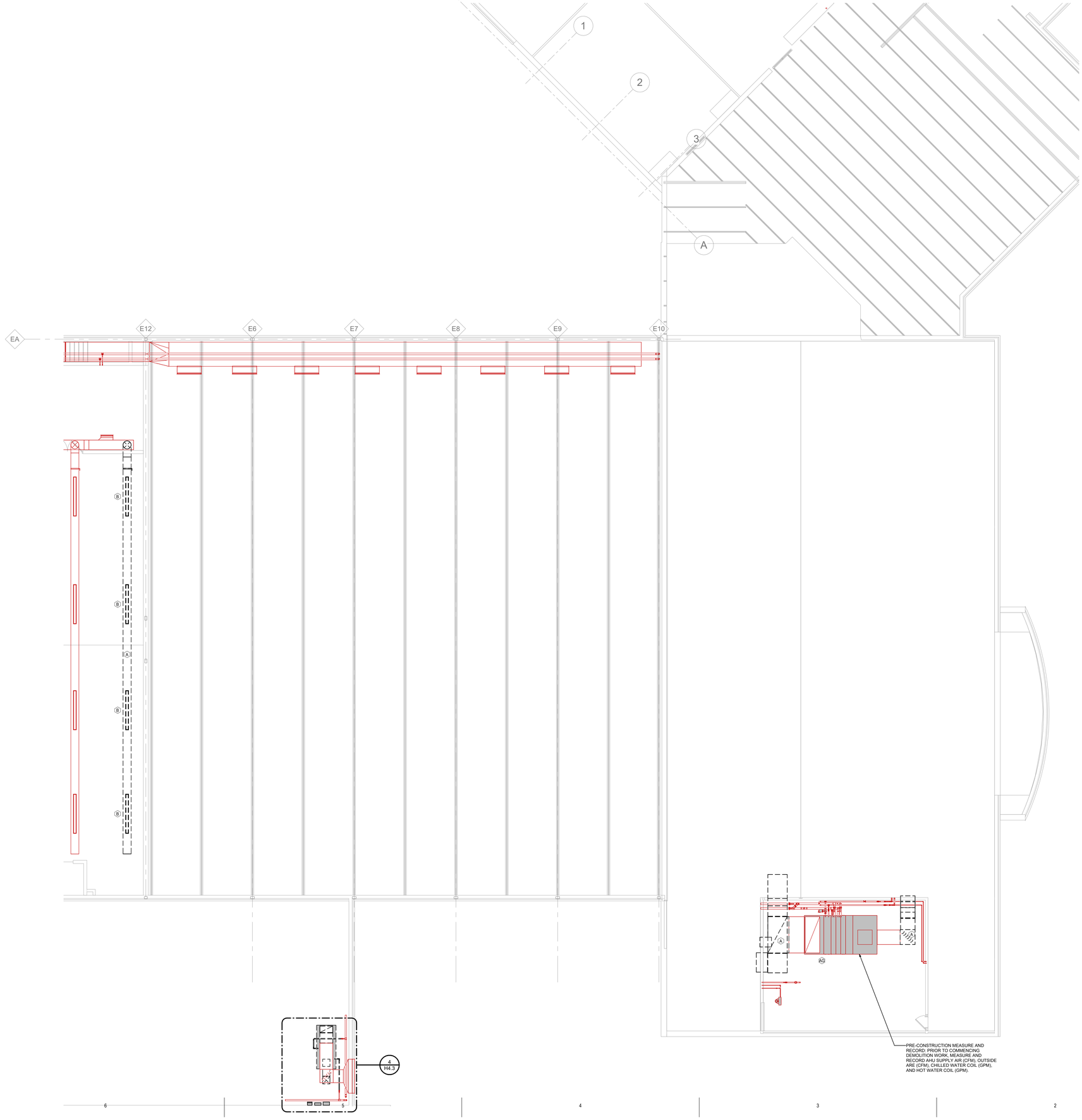
————	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

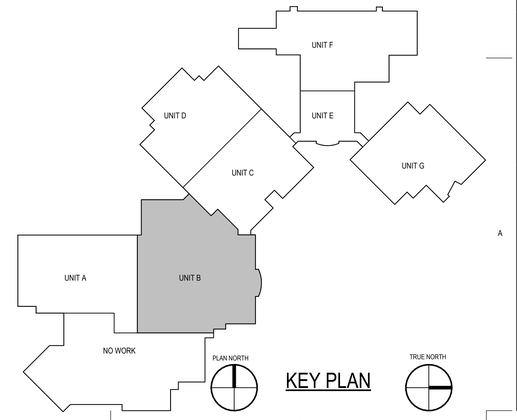
KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AG	REMOVE EXISITNG CONTROLS FROM AHU. SEE NEW WORK PLAN.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.



1 H1.2B SECOND FLOOR DEMOLITION PLAN - UNIT B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT B - SECOND FLOOR DEMOLITION PLAN

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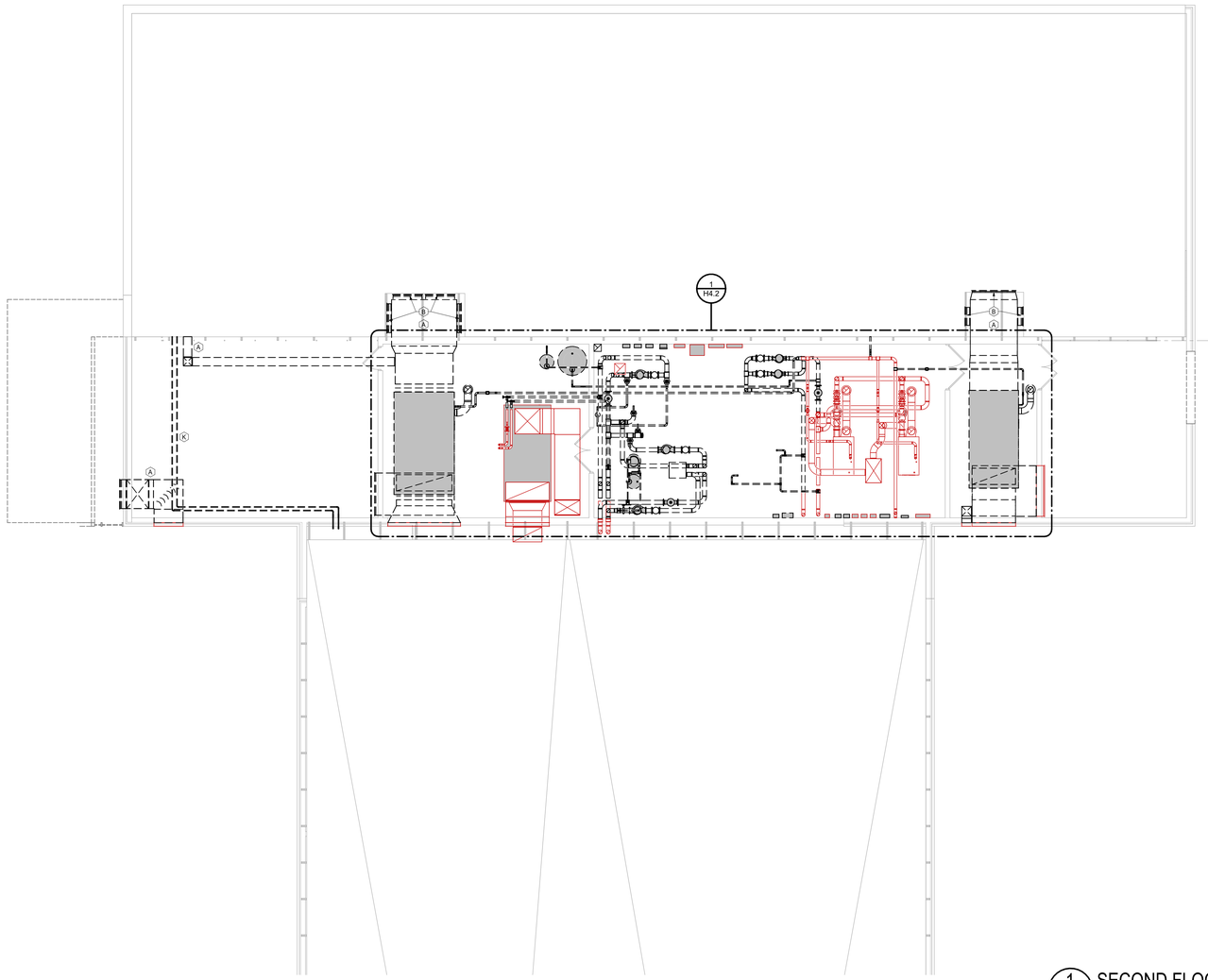
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

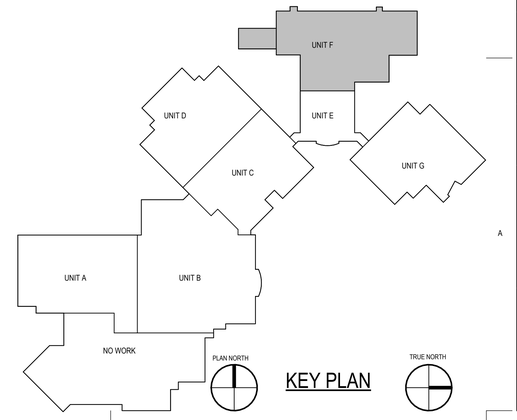
KEYED NOTES	
HEX KEY	**DESCRIPTION**
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
K	REMOVE EXISTING PIPING TO POINT INDICATED.



1 H1.2F SECOND FLOOR DEMOLITION PLAN - UNIT F

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT F - SECOND FLOOR DEMOLITION PLAN

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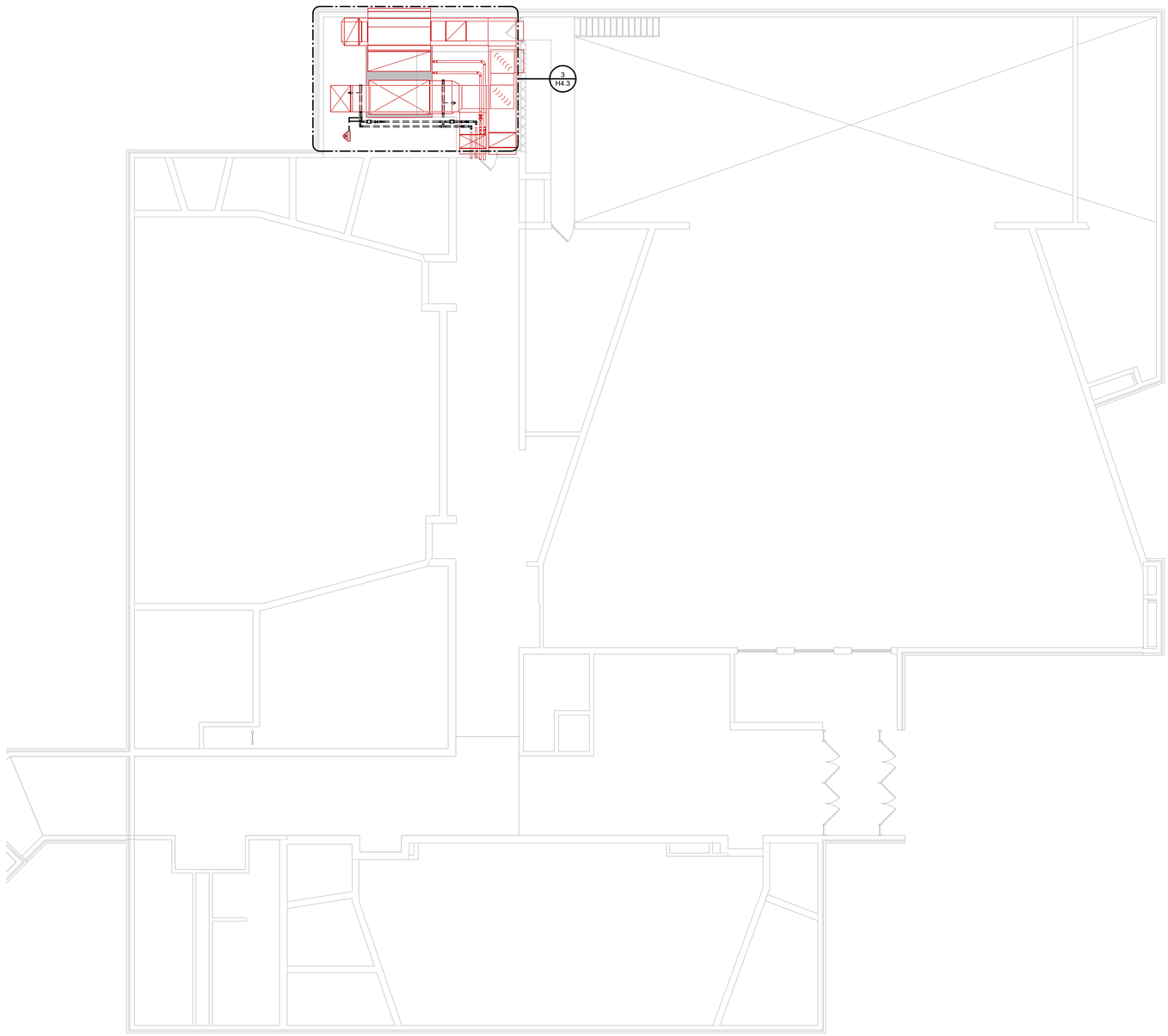
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H1.2G SECOND FLOOR DEMOLITION PLAN I UNIT G

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'

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Milwaukee, Wisconsin 53204
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UNIT G - SECOND FLOOR DEMOLITION PLAN

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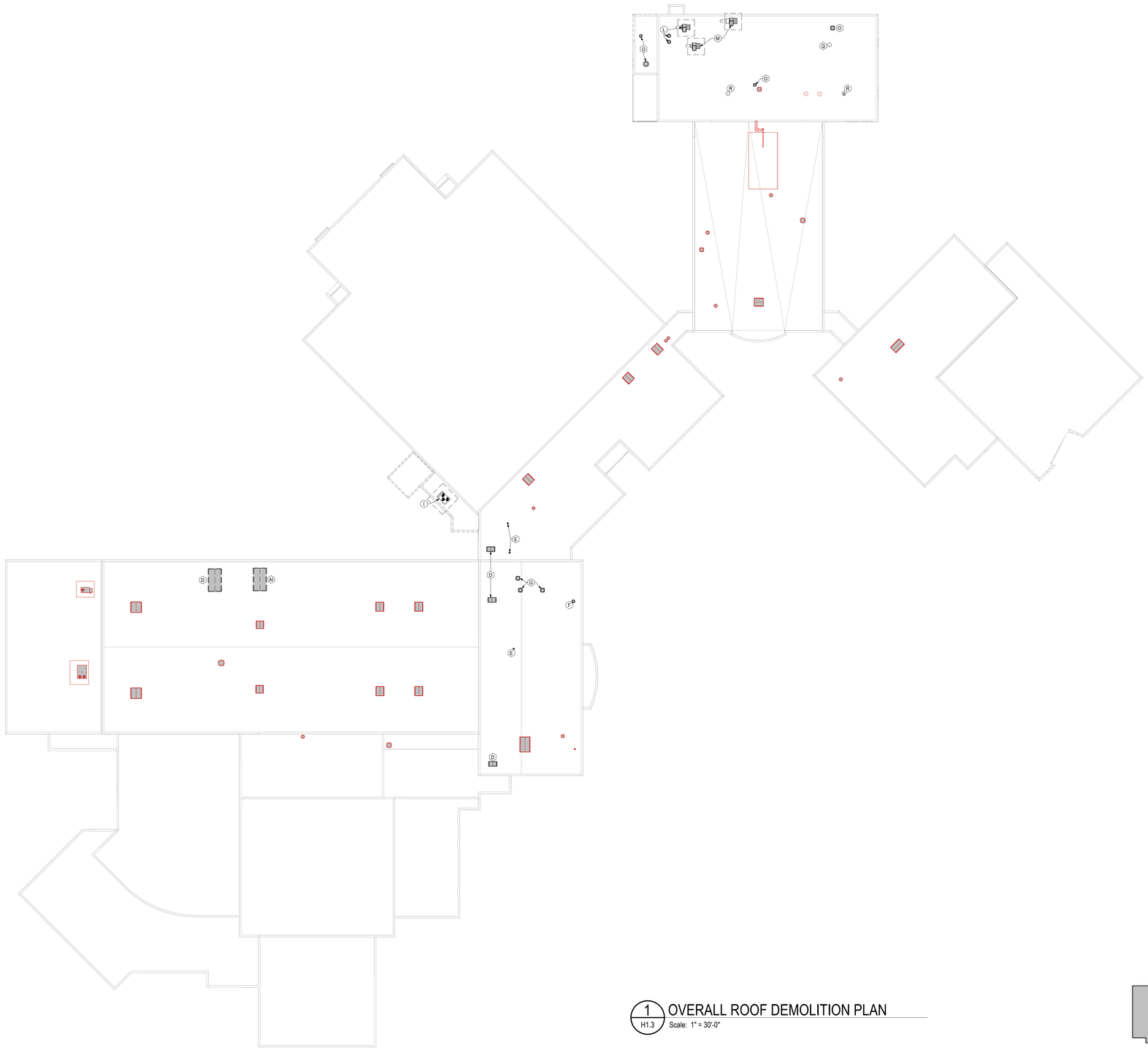
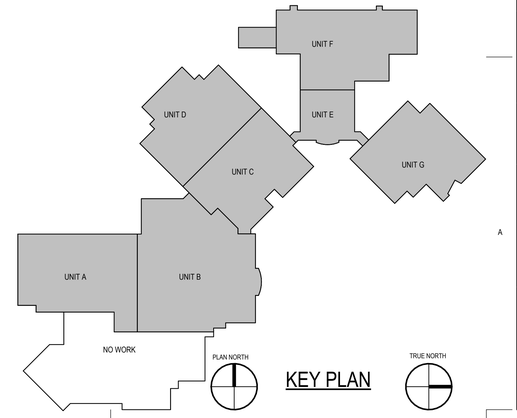
DEMOLITION SYMBOL	DESCRIPTION
———	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO REMAIN.
- - - - - - - - - - - - - - -	EXISTING PIPING, EQUIPMENT OR DUCTWORK TO BE REMOVED.

KEYED NOTES	
HEX KEY	**DESCRIPTION**
AI	REMOVE EXISTING WEATHERPROOF HOOD AND ROOF CURB. PATCHING OF ROOF BY OTHERS. SEE ARCH. PLANS.
D	REMOVE EXISTING RELIEF HOOD AND ASSOCIATED DUCTWORK. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
E	REMOVE EXISTING CEILING EXHAUSTER, ASSOCIATED DUCTWORK AND ROOFCAP. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
F	REMOVE EXISTING DISHWASHER EXHAUST HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
G	REMOVE EXISTING KITCHEN EXHAUST HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
I	REMOVE EXISTING AIR HANDLING UNIT, DX COOLING COIL, REFRIGERANT PIPING, ROOF MOUNTED CONDENSING UNIT, WEATHERPROOF LOUVER, SUPPLY DUCTWORK TO POINT INDICATED, AND PNEUMATIC CONTROL COMPONENTS.
L	REMOVE EXISTING CANOPY HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
M	REMOVE EXISTING SLOT HOOD, ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
O	REMOVE EXISTING ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
Q	REMOVE EXISTING FLEXIBLE EXHAUST TUBES, EXHAUST FAN, ASSOCIATED DUCTWORK AND ROOFCAP. PATCH ROOF OPENING TO MATCH EXISTING CONSTRUCTION.
R	REMOVE EXISTING MAKE-UP AIR HANDLING UNIT, DUCTWORK AS INDICATED, WEATHERPROOF LOUVER, ROOFCAP, DAMPERS, BRANCH PIPING, AND CONTROL. CAP PIPING AT MAINS. PATCH ROOF OPENING TO MATCH EXISTING CONSTRUCTION.



1 H1.3 OVERALL ROOF DEMOLITION PLAN
Scale: 1" = 30'-0"



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BRAY ARCHITECTS
Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200
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OVERALL ROOF DEMOLITION PLAN

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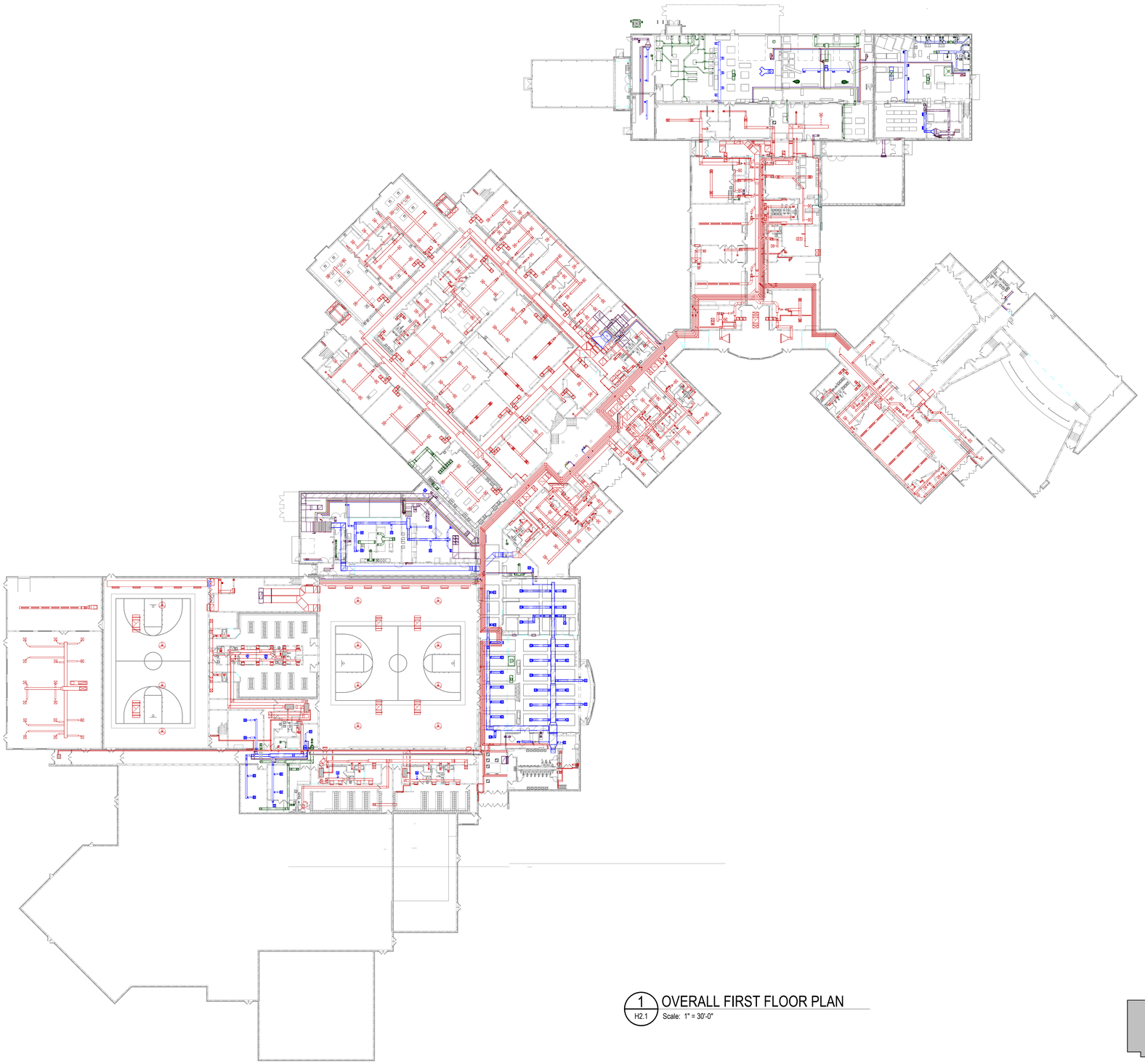
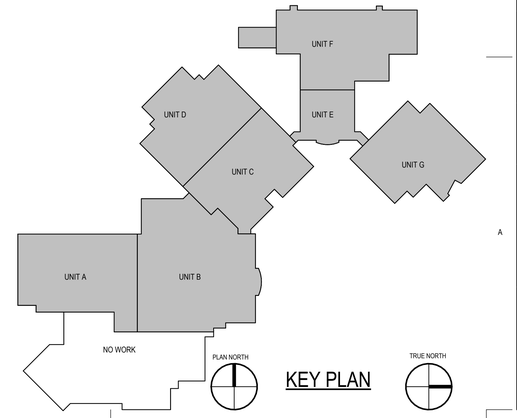
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H2.1 OVERALL FIRST FLOOR PLAN
Scale: 1" = 30'-0"



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Milwaukee, Wisconsin 53204
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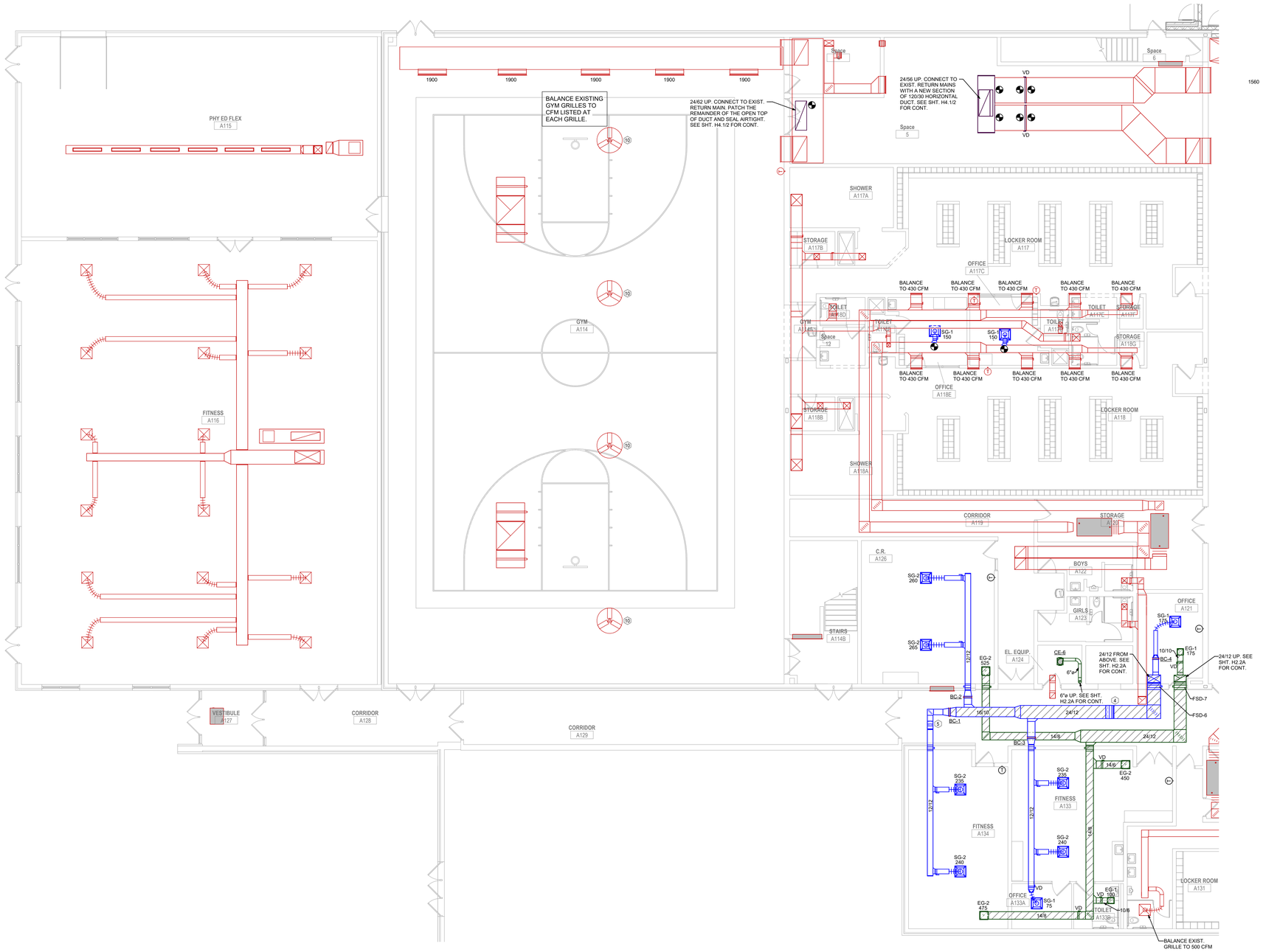
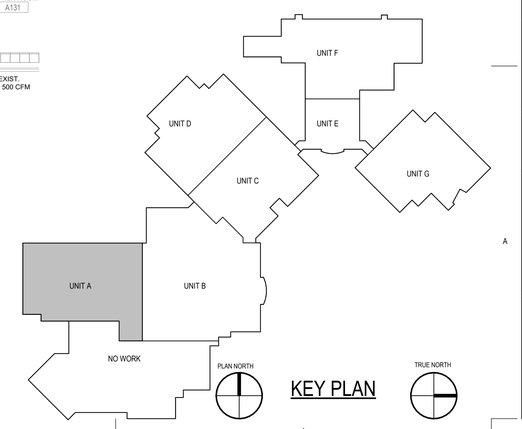
KEYED NOTES	
HEX KEY	**DESCRIPTION**
4	OFFSET UP
5	OFFSET DOWN
10	INSTALL NEW DDC CONTROLS ON EXISITNG FAN. SEE CONTROL SEQUENCES.



1 H2.1A FIRST FLOOR DUCTWORK PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT A - FIRST FLOOR DUCTWORK PLAN

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KEYED NOTES	
HEX KEY	DESCRIPTION
1	OPEN END TRANSFER DUCT ABOVE CEILING.
4	OFFSET UP
5	OFFSET DOWN
10	INSTALL NEW DDC CONTROLS ON EXISITNG FAN. SEE CONTROL SEQUENCES.

BALANCE EXISTING GYM GRILLES TO CFM LISTED AT EACH GRILLE.

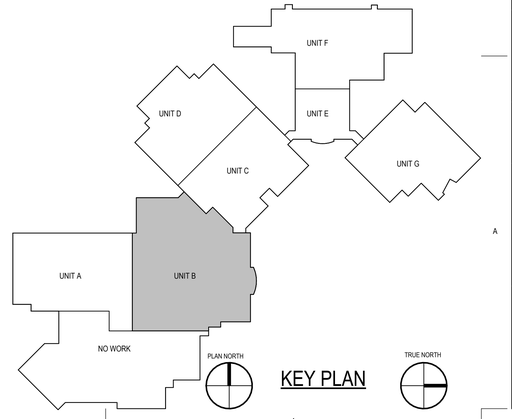
BALANCE ALL EXISTING GRILLES/DIFFUSERS IN LOCKER AREA BELOW TO CFM LISTED AT EACH GRILLE/DIFFUSER.

1 FIRST FLOOR DUCTWORK PLAN - UNIT B

H2.1B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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Milwaukee
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UNIT B - FIRST FLOOR DUCTWORK PLAN

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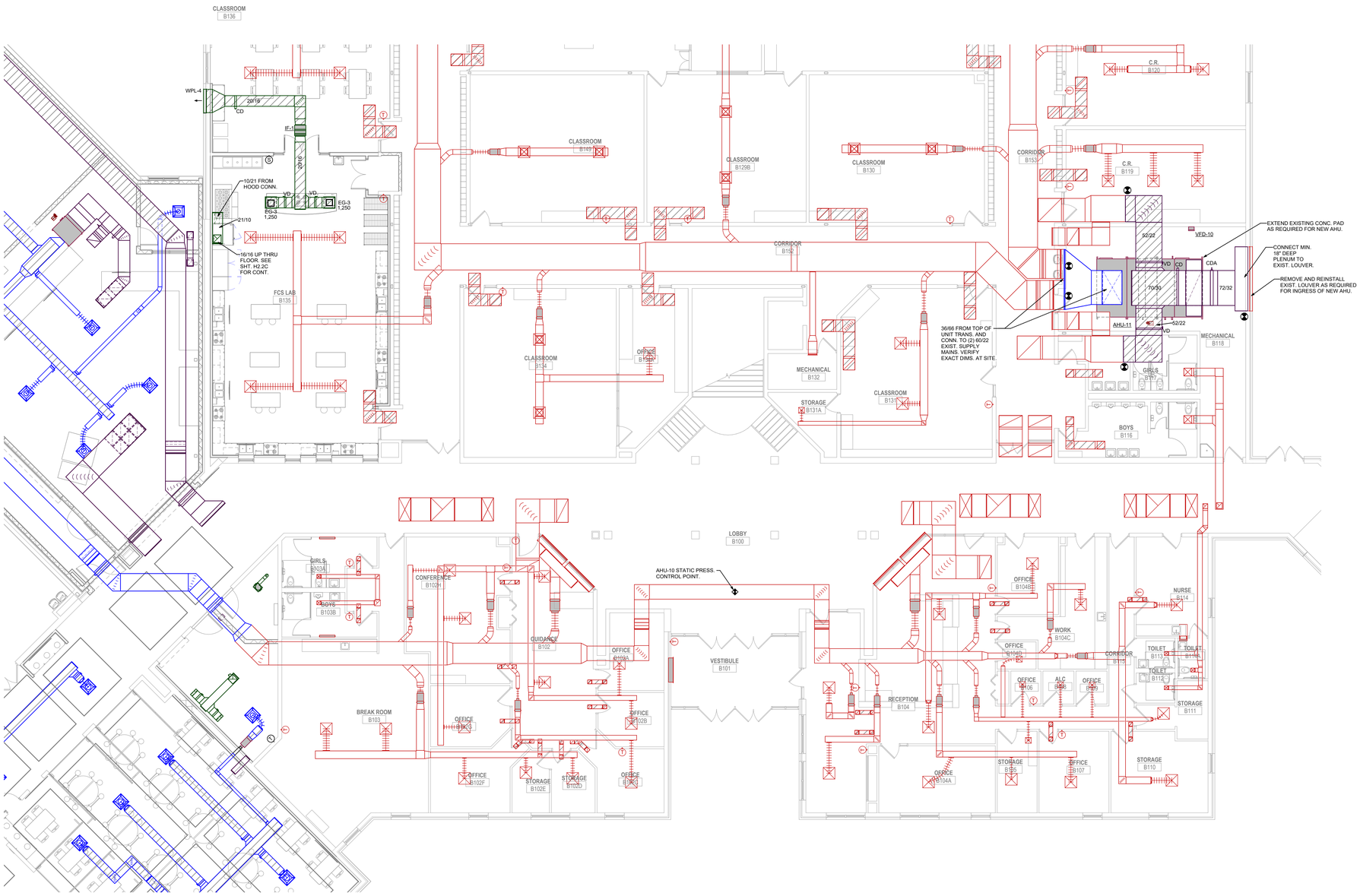
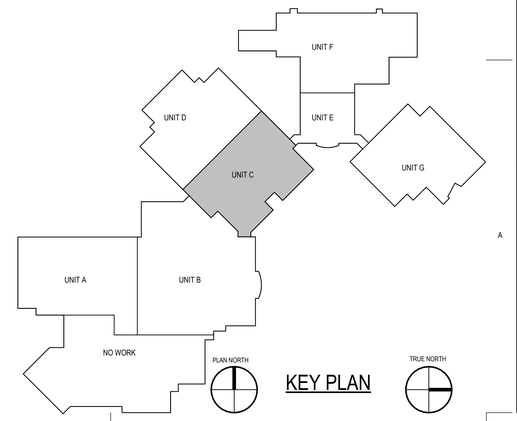
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H2.1C FIRST FLOOR DUCTWORK PLAN - UNIT C

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT C - FIRST FLOOR DUCTWORK PLAN

Sheet Number:
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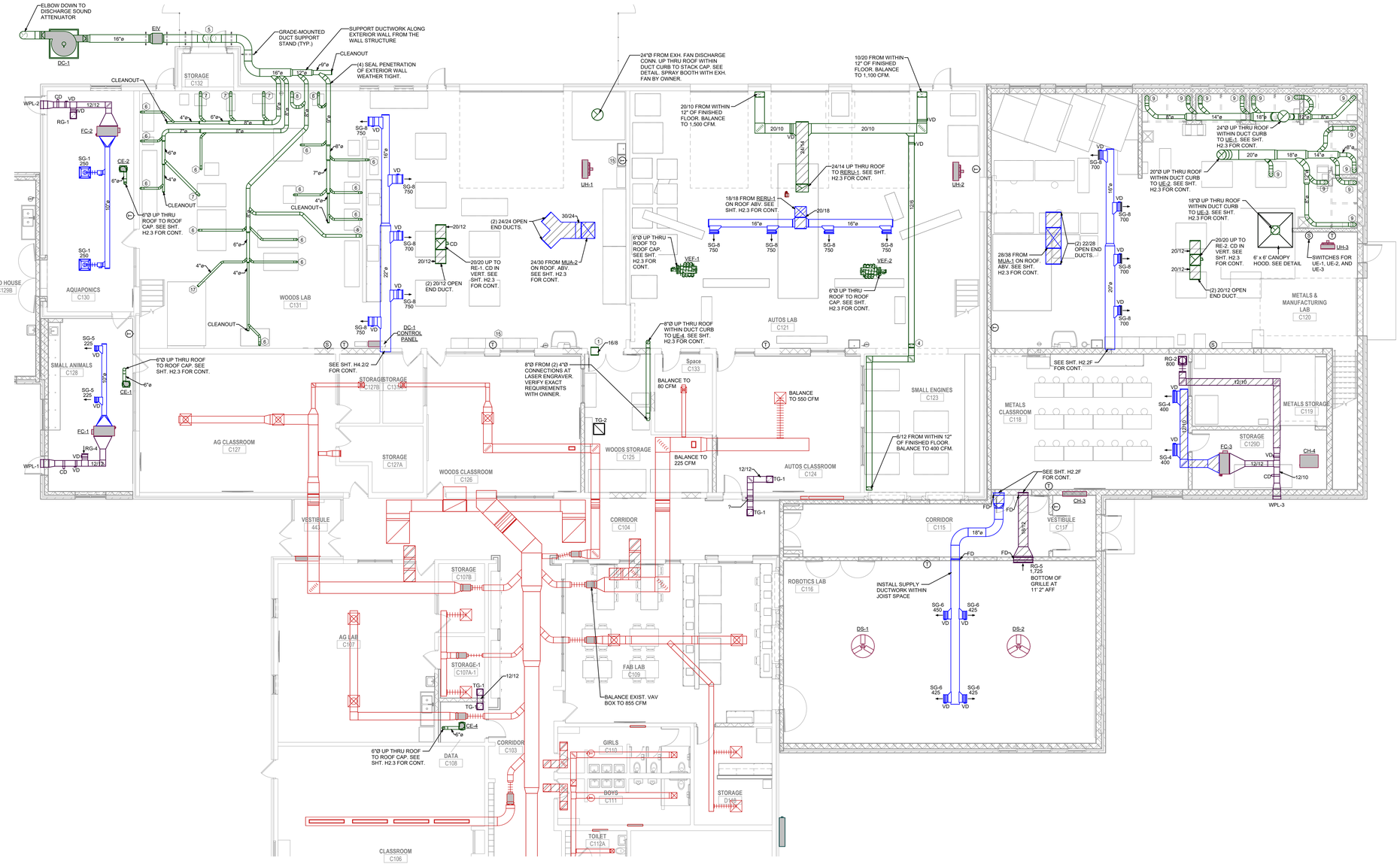
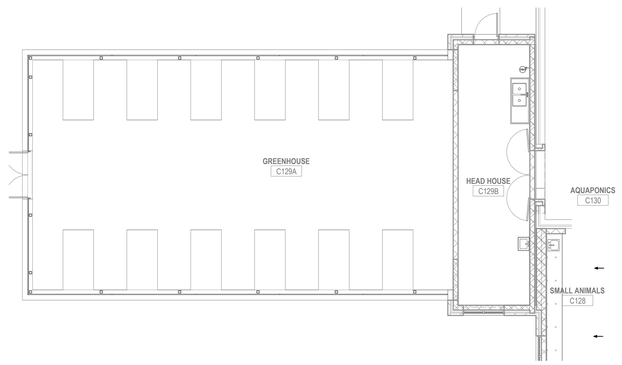


1 H2.1F **FIRST FLOOR DUCTWORK PLAN - UNIT F**

Scale: 1/8" = 1'-0"

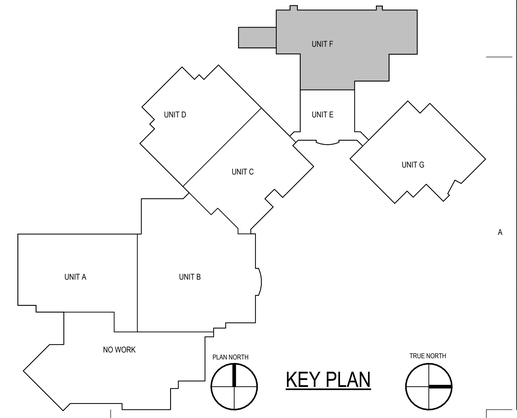
0' 4' 8' 16' 24'



2 H2.1F **FIRST FLOOR DUCTWORK PLAN - UNIT F - GREENHOUSE**

Scale: 1/8" = 1'-0"

KEYED NOTES	
HEX KEY	**DESCRIPTION**
1	OPEN END TRANSFER DUCT ABOVE CEILING.
4	OFFSET UP
5	OFFSET DOWN
6	4"Ø FROM WOOD WORKING EQUIPMENT. INSTALL BLAST GATE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR. SUPPORT DUCT FROM WALL OR ROOF STRUCTURE. FINAL CONNECTION TO EQUIPMENT BY MECHANICAL CONTRACTOR. 350 CFM.
7	5"Ø FROM WOOD WORKING EQUIPMENT. INSTALL BLAST GATE APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR. SUPPORT DUCT FROM WALL OR ROOF STRUCTURE. FINAL CONNECTION TO EQUIPMENT BY MECHANICAL CONTRACTOR. 550 CFM.
8	6"Ø FROM FLOOR SWEEP. SUPPORT FROM WALL. SEE DETAIL.
9	8"Ø FROM WELDING ARM. BALANCE TO 700 CFM. SEE DETAIL. COORDINATE EXACT LOCATION IN WELDING BOOTH WITH THE OWNER.
15	COORDINATE THERMOSTAT LOCATION WITH CASE WORK.
17	EXTEND 4" HIGH PRESSURE FLEX TO CONNECT AT CNC MACHINE. PROVIDE ADEQUATE AMOUNT OF FLEX DUCT TO ALLOW FOR FULL MOTION OF THE CNC. VERIFY REQUIREMENTS WITH OWNER 350 CFM.



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UNIT F - FIRST FLOOR DUCTWORK PLAN

Sheet Number:
H2.1F

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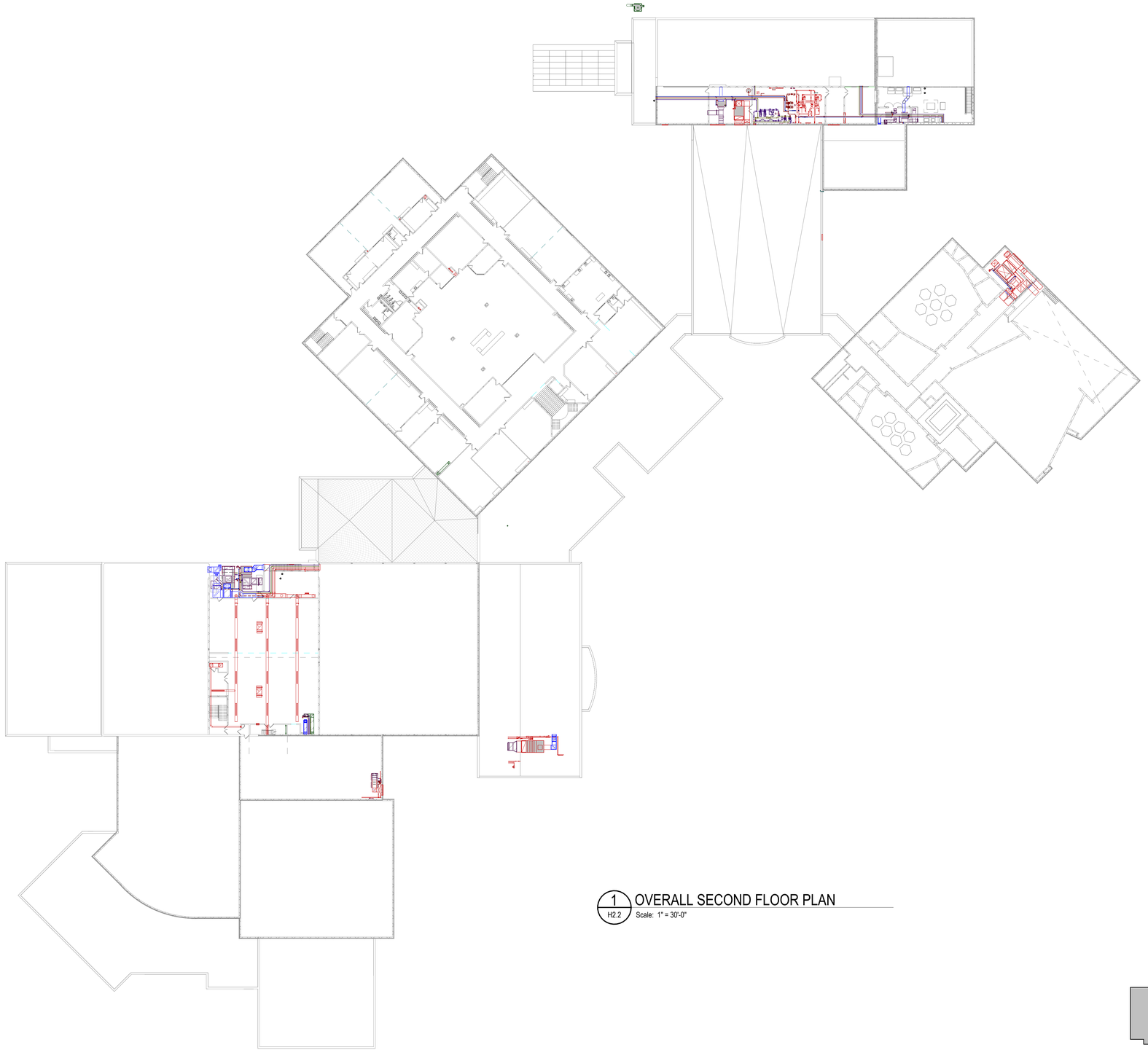
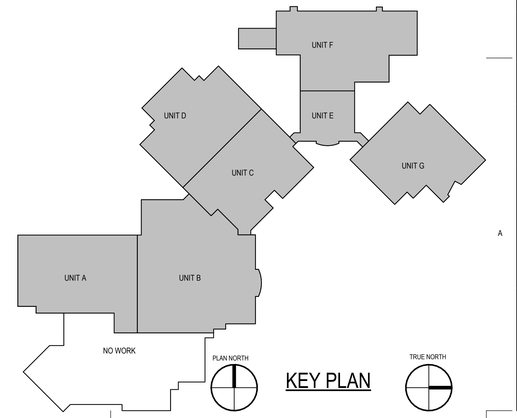
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H2.2 OVERALL SECOND FLOOR PLAN
Scale: 1" = 30'-0"



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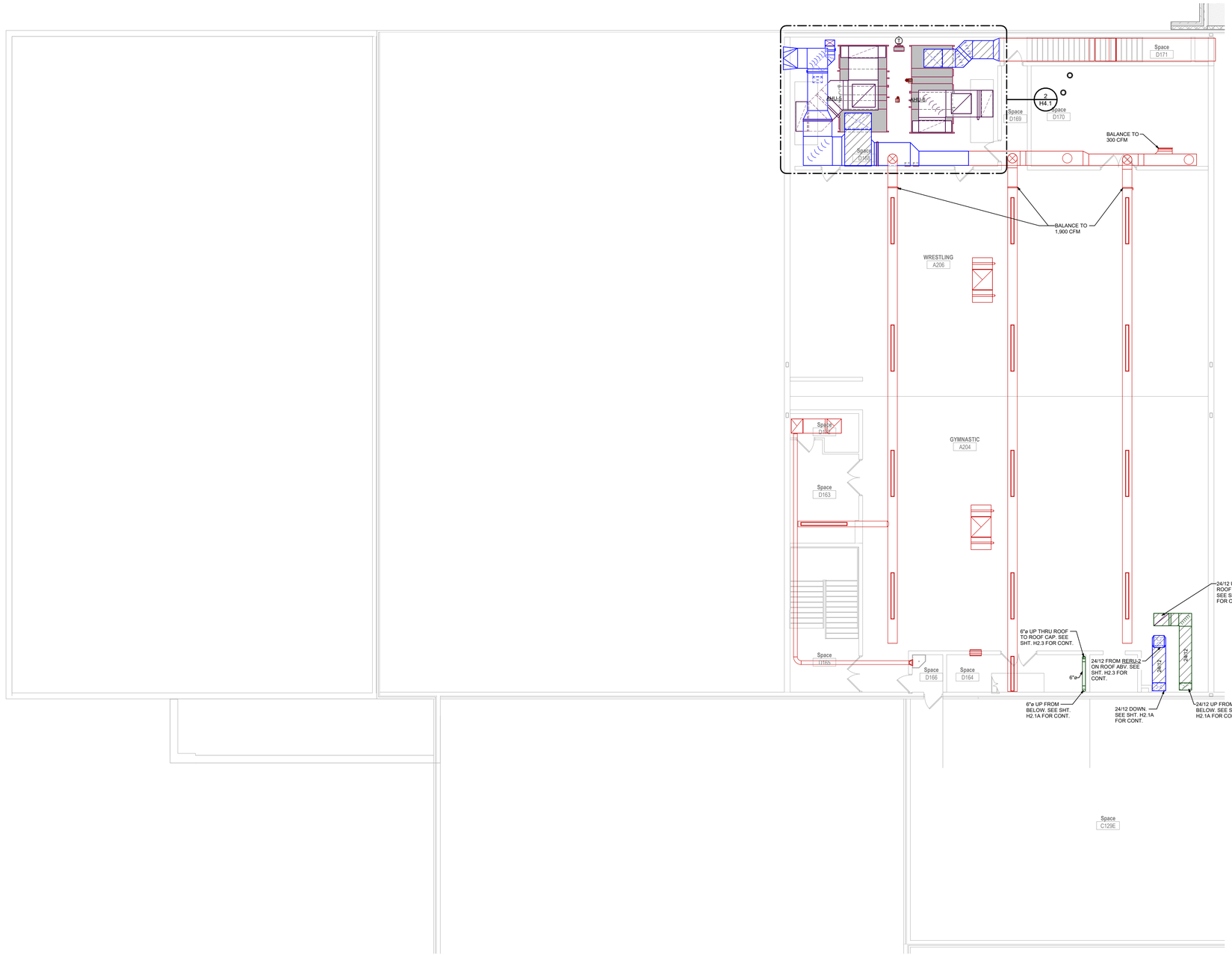
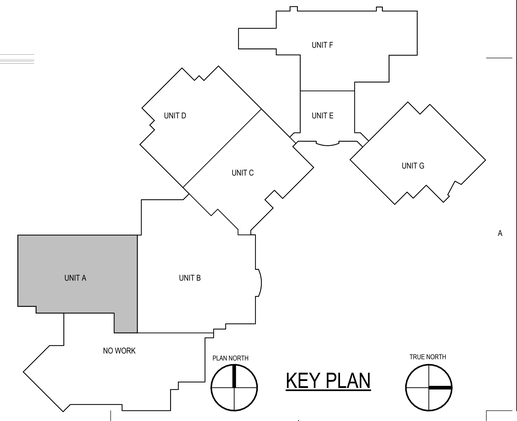
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H2.2A SECOND FLOOR DUCTWORK PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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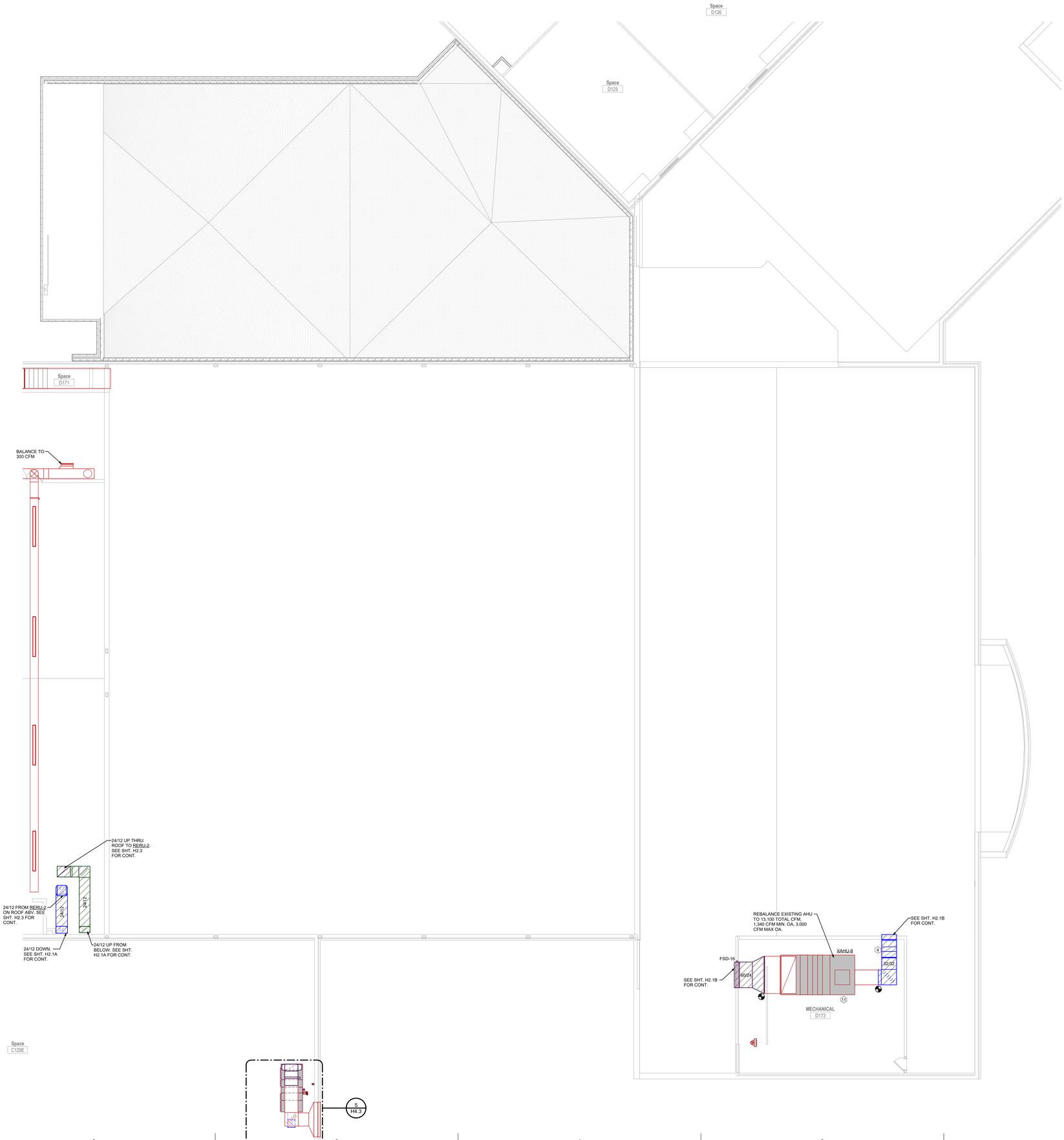
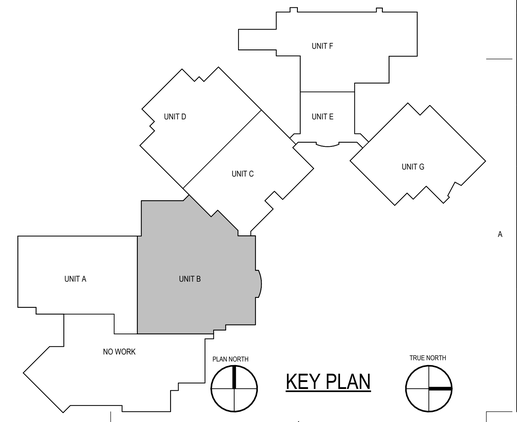


KEYED NOTES	
HEX KEY	**DESCRIPTION**
4	OFFSET UP
11	INSTALL NEW DDC CONTROLS ON EXISITNG UNIT. SEE CONTROL SEQUENCES.

1 H2.2B SECOND FLOOR DUCTWORK PLAN - UNIT B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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KEYED NOTES	
HEX KEY	DESCRIPTION



1 H2.2C SECOND FLOOR DUCTWORK PLAN - UNIT C

Scale: 1/8" = 1'-0"

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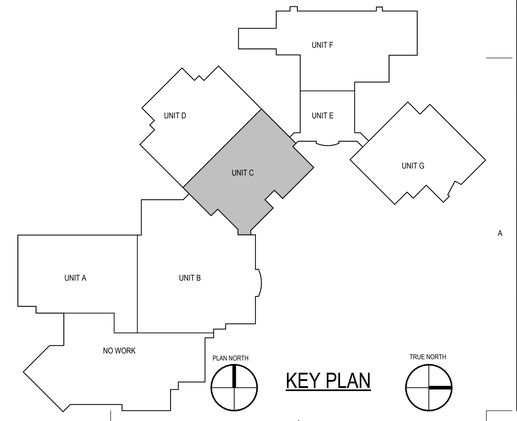

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UNIT C - SECOND FLOOR DUCTWORK PLAN

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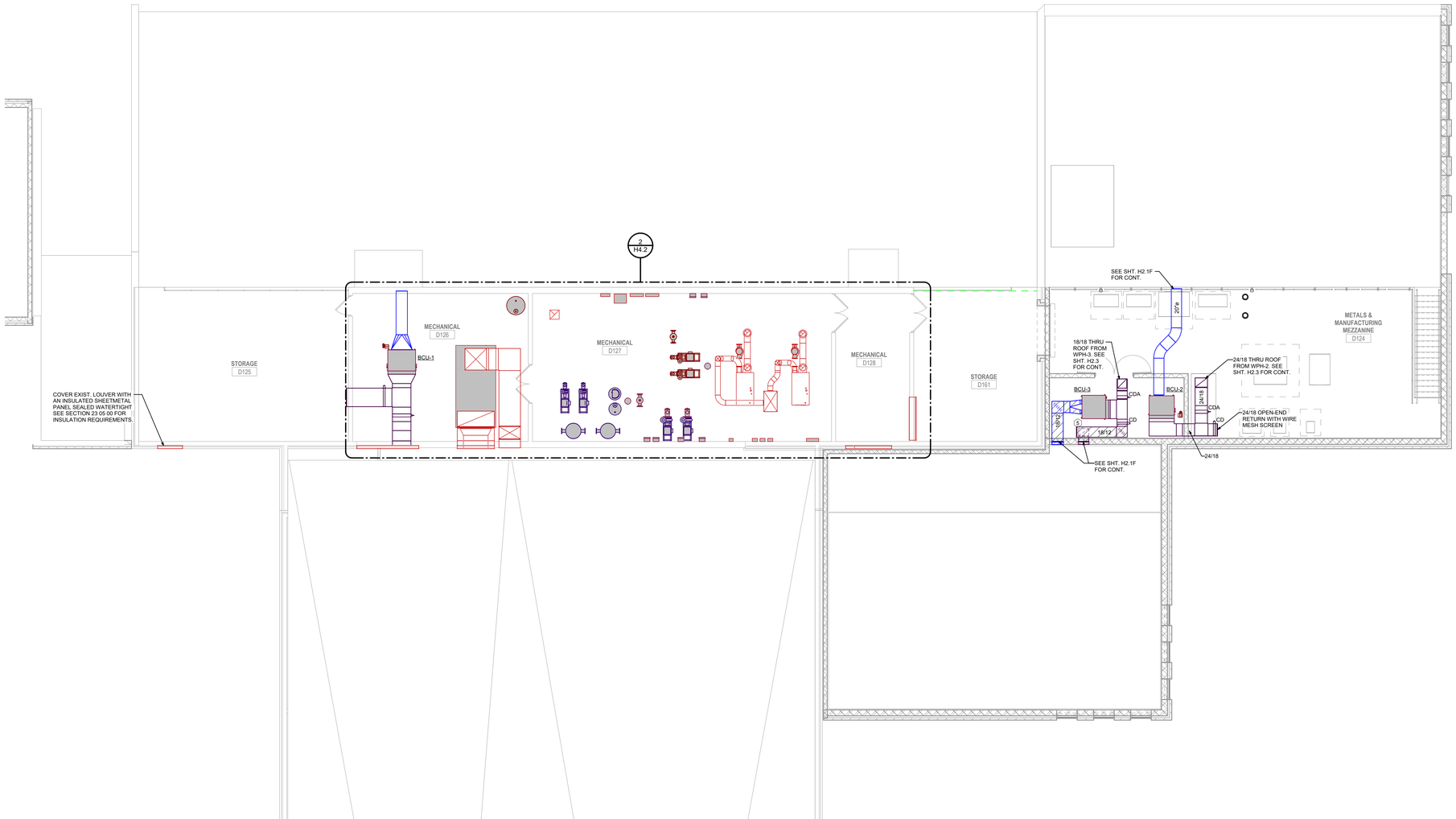
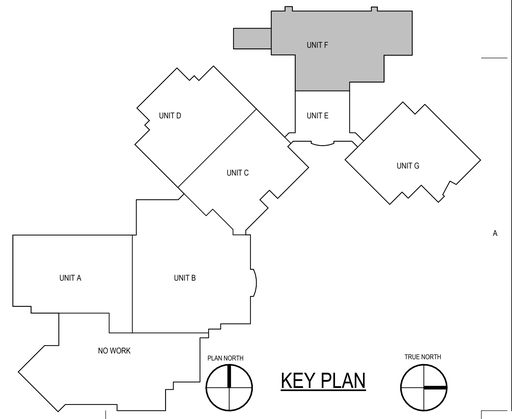
KEYED NOTES	
HEX KEY	DESCRIPTION
5	OFFSET DOWN



1 H2.2F SECOND FLOOR DUCTWORK PLAN - UNIT F

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT F - SECOND FLOOR DUCTWORK PLAN

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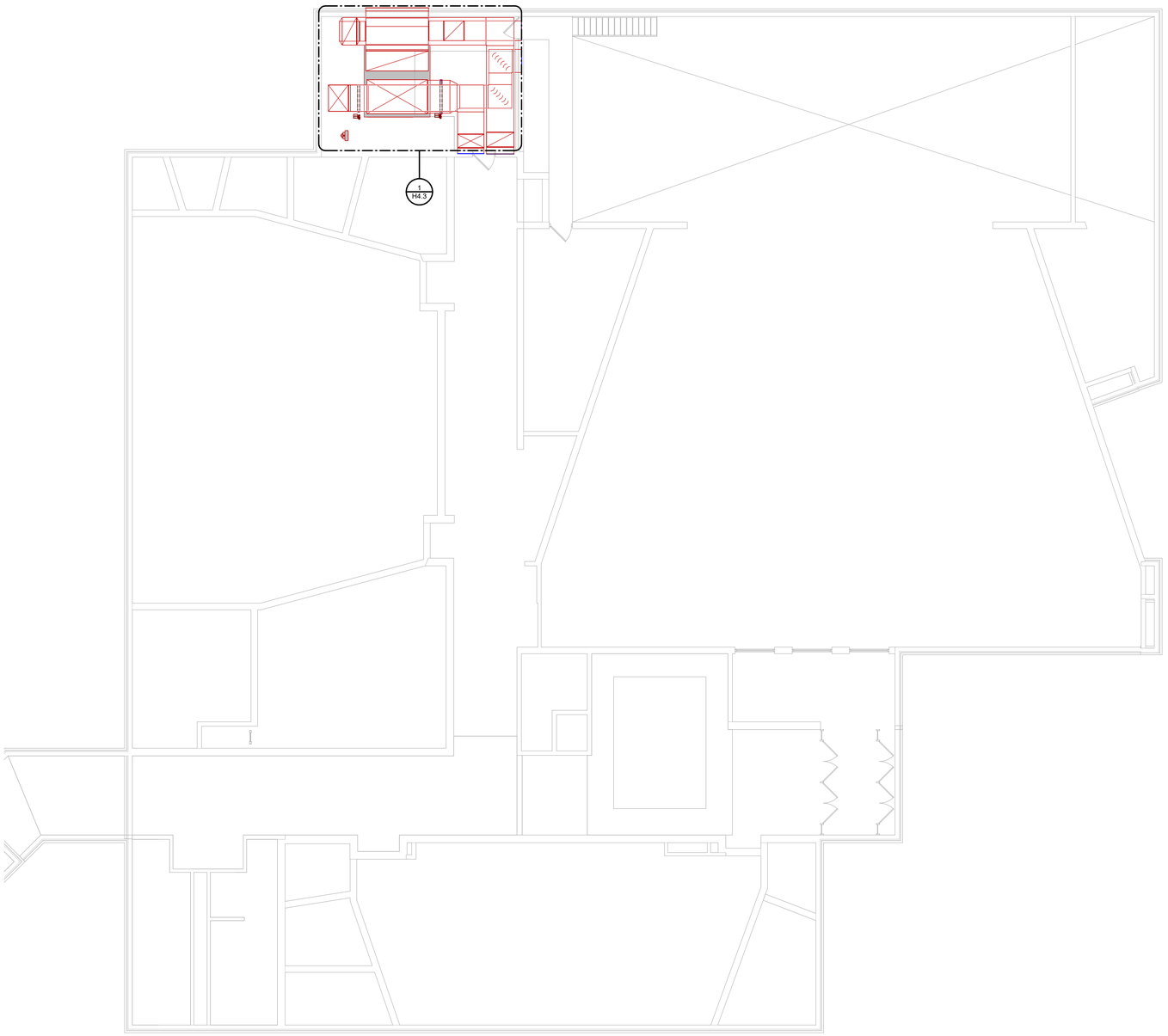
HEX KEY	DESCRIPTION



1 / H2.2G SECOND FLOOR DUCTWORK PLAN - UNIT G

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'

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UNIT G - SECOND FLOOR DUCTWORK PLAN

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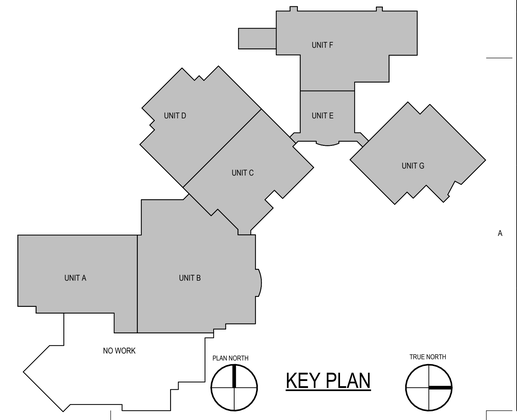
KEYED NOTES	
HEX KEY	**DESCRIPTION**
12	18"ø THRU ROOF WITHIN DUCT CURB. PROVIDE DUCT SUPPORTS AS REQUIRED. SEE SHT. H2.1F FOR CONT.
13	20"ø THRU ROOF WITHIN DUCT CURB. PROVIDE DUCT SUPPORTS AS REQUIRED. SEE SHT. H2.1F FOR CONT.
14	24"ø THRU ROOF WITHIN DUCT CURB. PROVIDE DUCT SUPPORTS AS REQUIRED. SEE SHT. H2.1F FOR CONT.



1 H2.3 OVERALL ROOF PLAN
Scale: 1" = 30'-0"



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OVERALL ROOF PLAN

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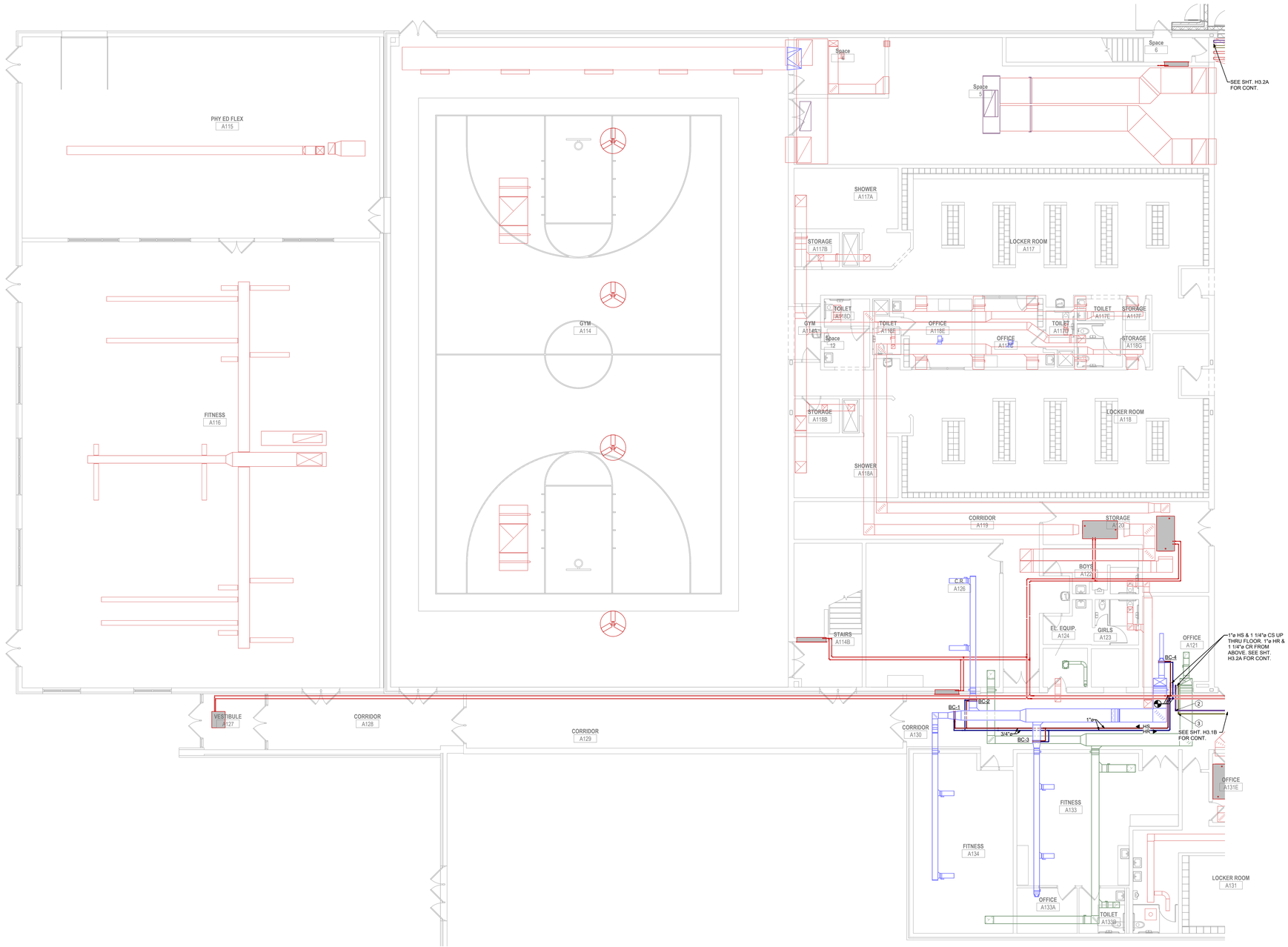
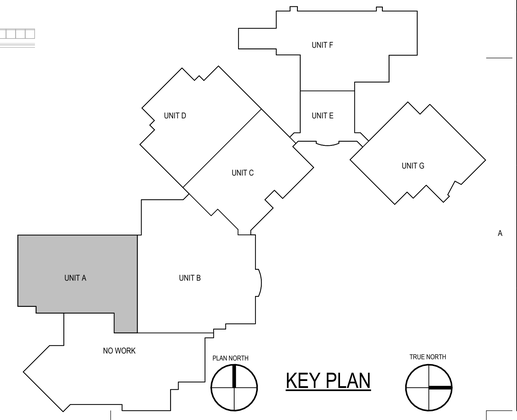
KEYED NOTES	
HEX KEY	DESCRIPTION
2	DROP AND VENT
3	RISE



1 H3.1A FIRST FLOOR PIPING PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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KEYED NOTES	
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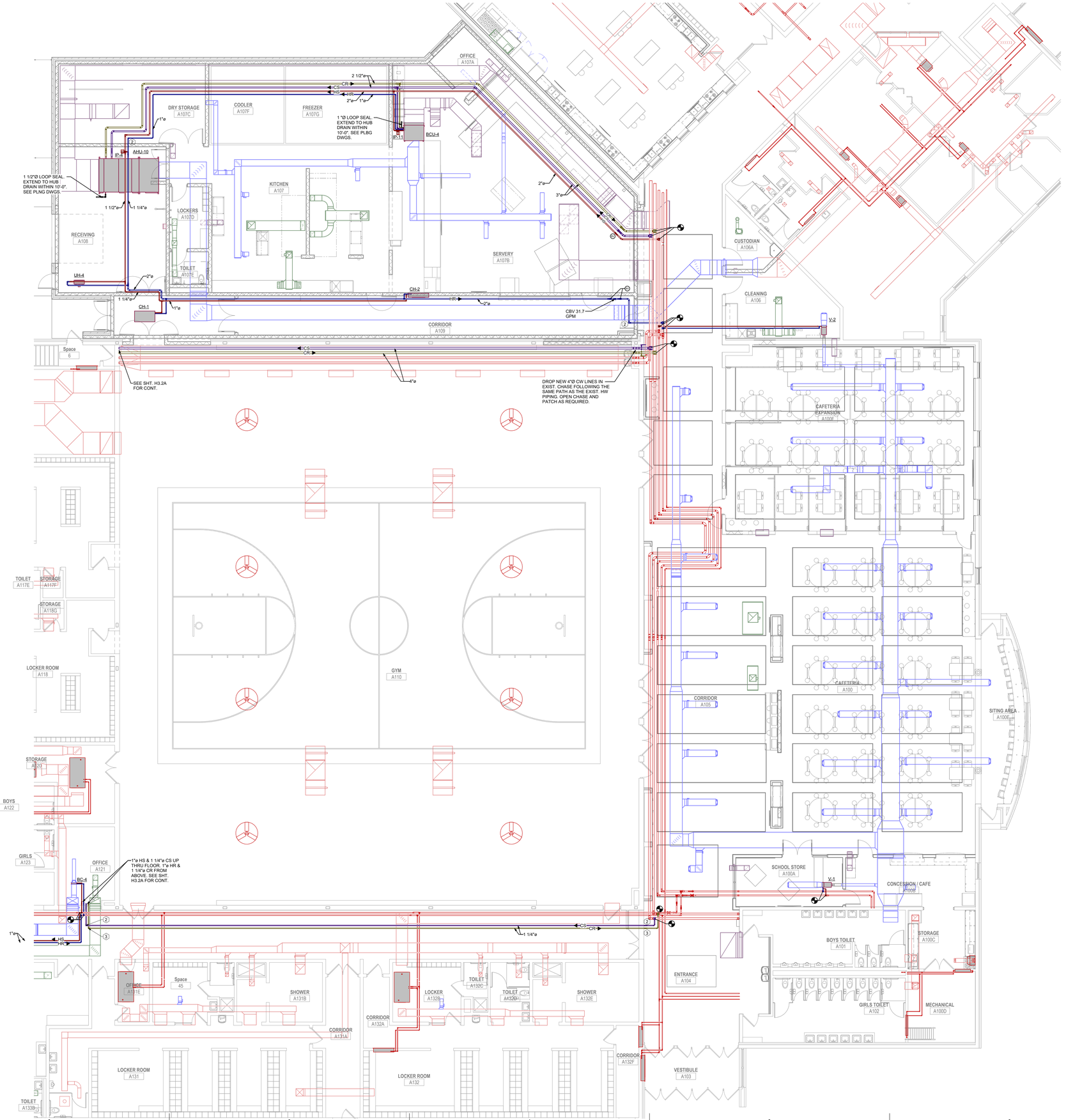
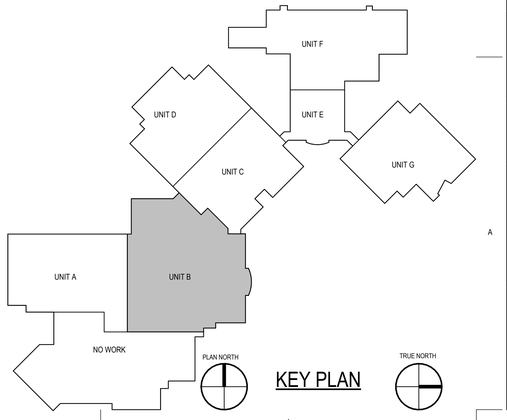
3	RISE



1 H3.1B FIRST FLOOR PIPING PLAN - UNIT B

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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KEYED NOTES	
HEX KEY	DESCRIPTION
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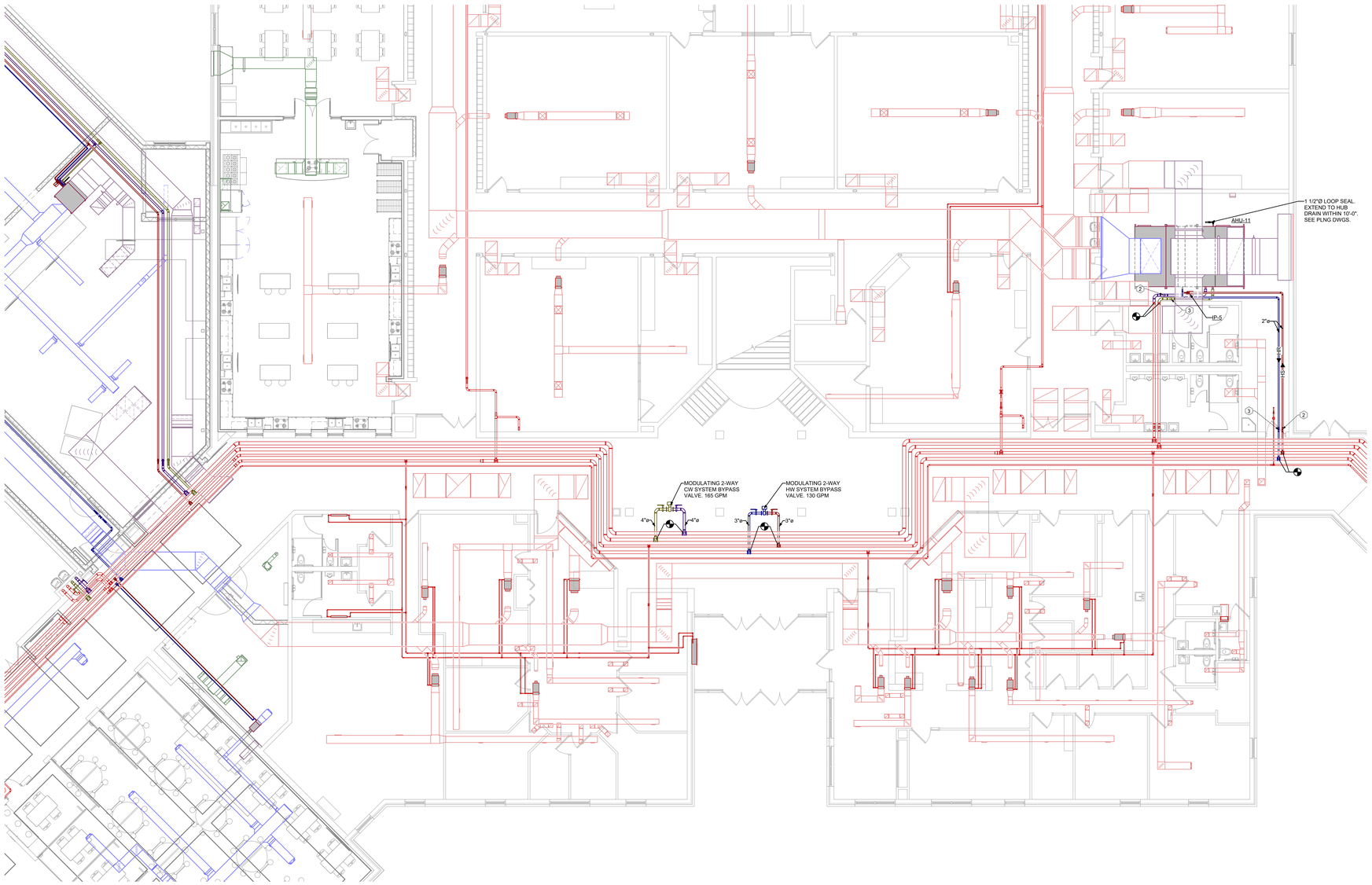
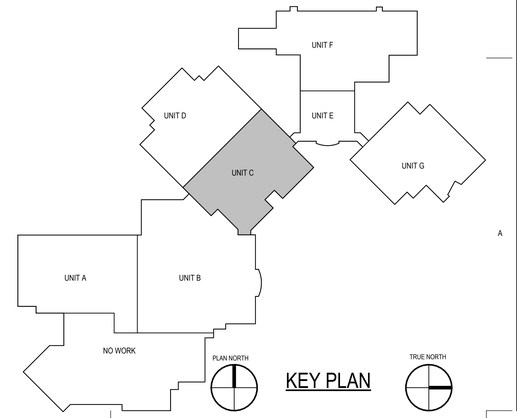
3	RISE



1 H3.1C FIRST FLOOR PIPING PLAN - UNIT C

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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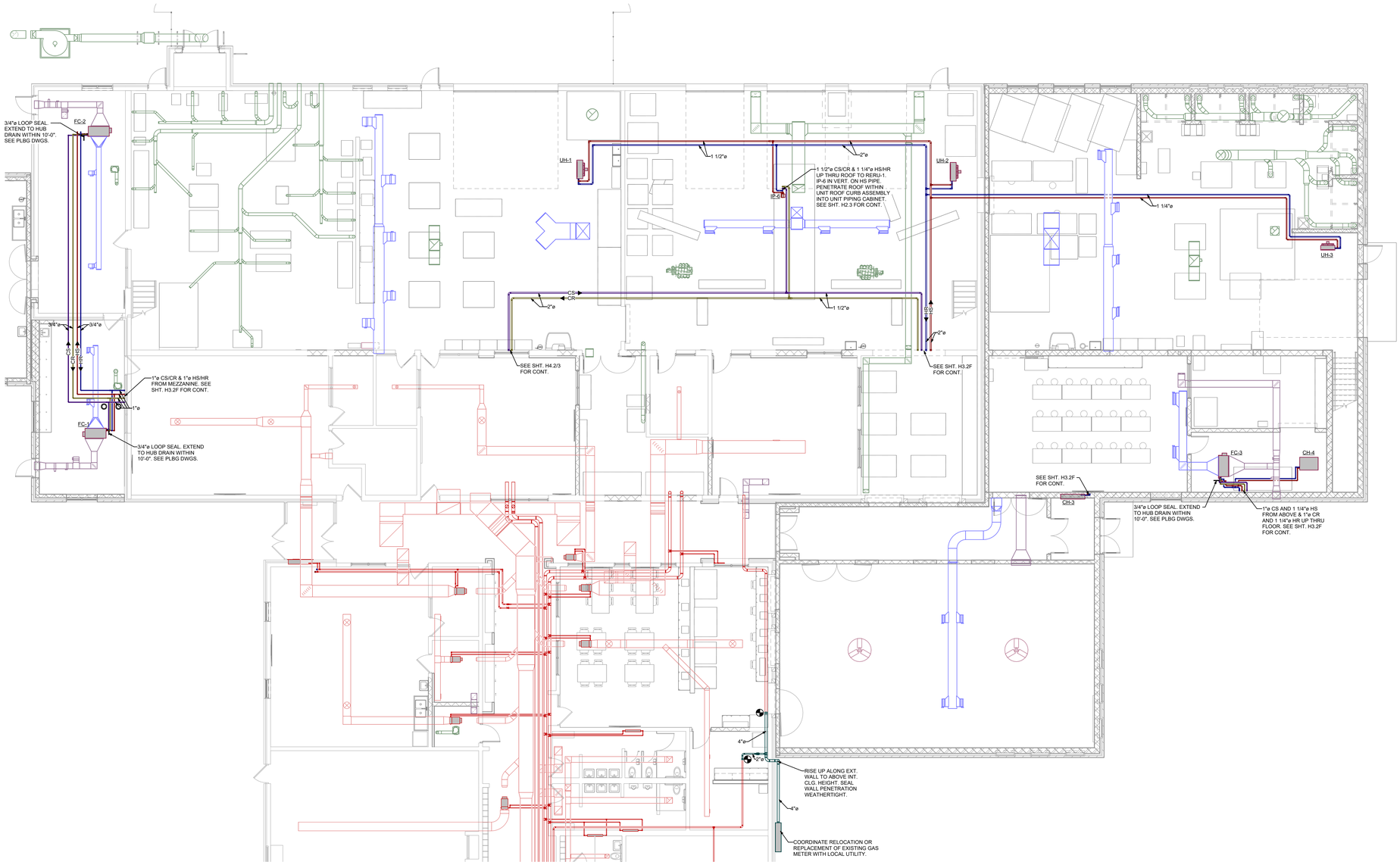
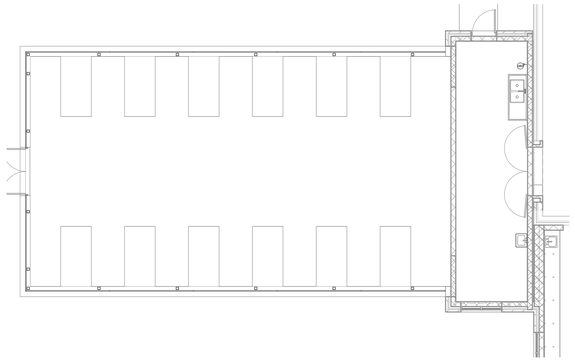


1 H3.1F FIRST FLOOR PIPING PLAN - UNIT F

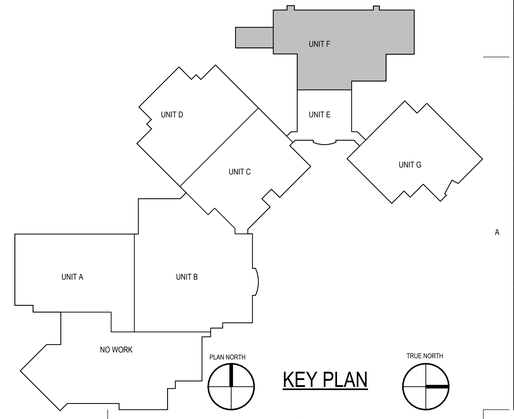
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



2 H3.1F FIRST FLOOR PIPING PLAN - UNIT F - GREENHOUSE

Scale: 1/8" = 1'-0"



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KEYED NOTES	
HEX KEY	DESCRIPTION
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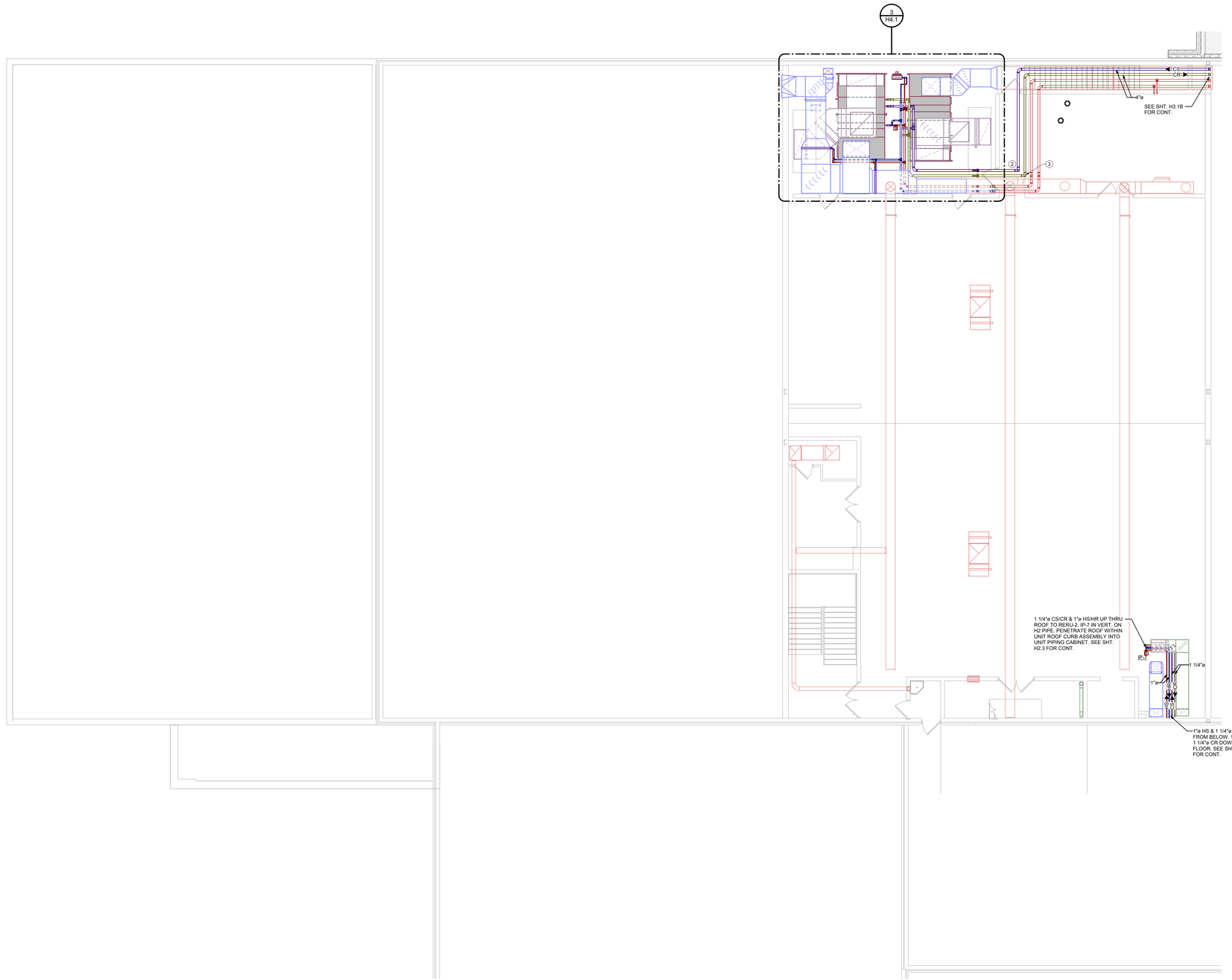
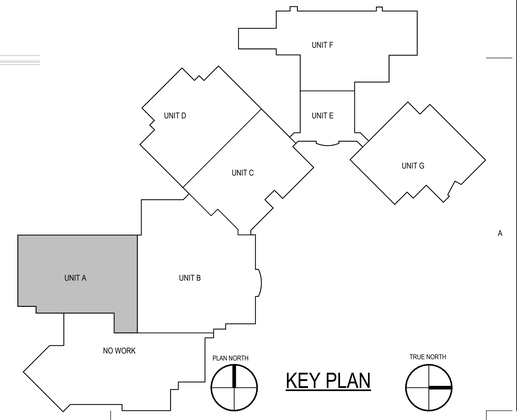
3	RISE



1 H3.2A SECOND FLOOR PIPING PLAN - UNIT A

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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KEYED NOTES	
HEX KEY	DESCRIPTION

CS
CR
4"ø
SEE SHT. H3.1B FOR CONT.

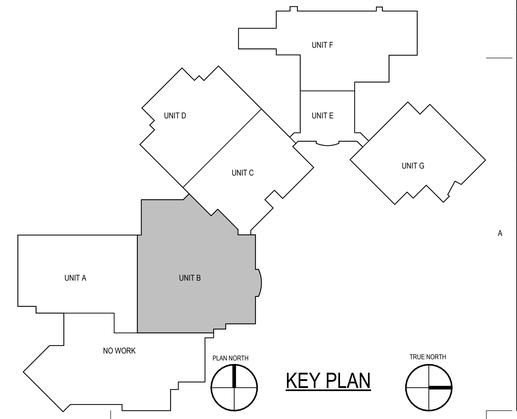
IP
1 1/4"ø
1"ø
CS
CR
1"ø HS & 1 1/4"ø CS UP FROM BELOW, 1"ø HR & 1 1/4"ø CR DOWN THRU FLOOR. SEE SHT. H3.1A FOR CONT.

6
H4.3

BALANCE EXIST. CW COIL TO 107 GPM AND HW COIL TO 31 GPM.
REFURBISH EXIST. AHU-8 SEE SECTION 230500 FOR REQUIREMENTS.
MECHANICAL
D173

1 H3.2B SECOND FLOOR PIPING PLAN - UNIT B
Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

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Sheet Title:
UNIT B - SECOND FLOOR PIPING PLAN

Sheet Number:
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KEYED NOTES	
HEX KEY	DESCRIPTION
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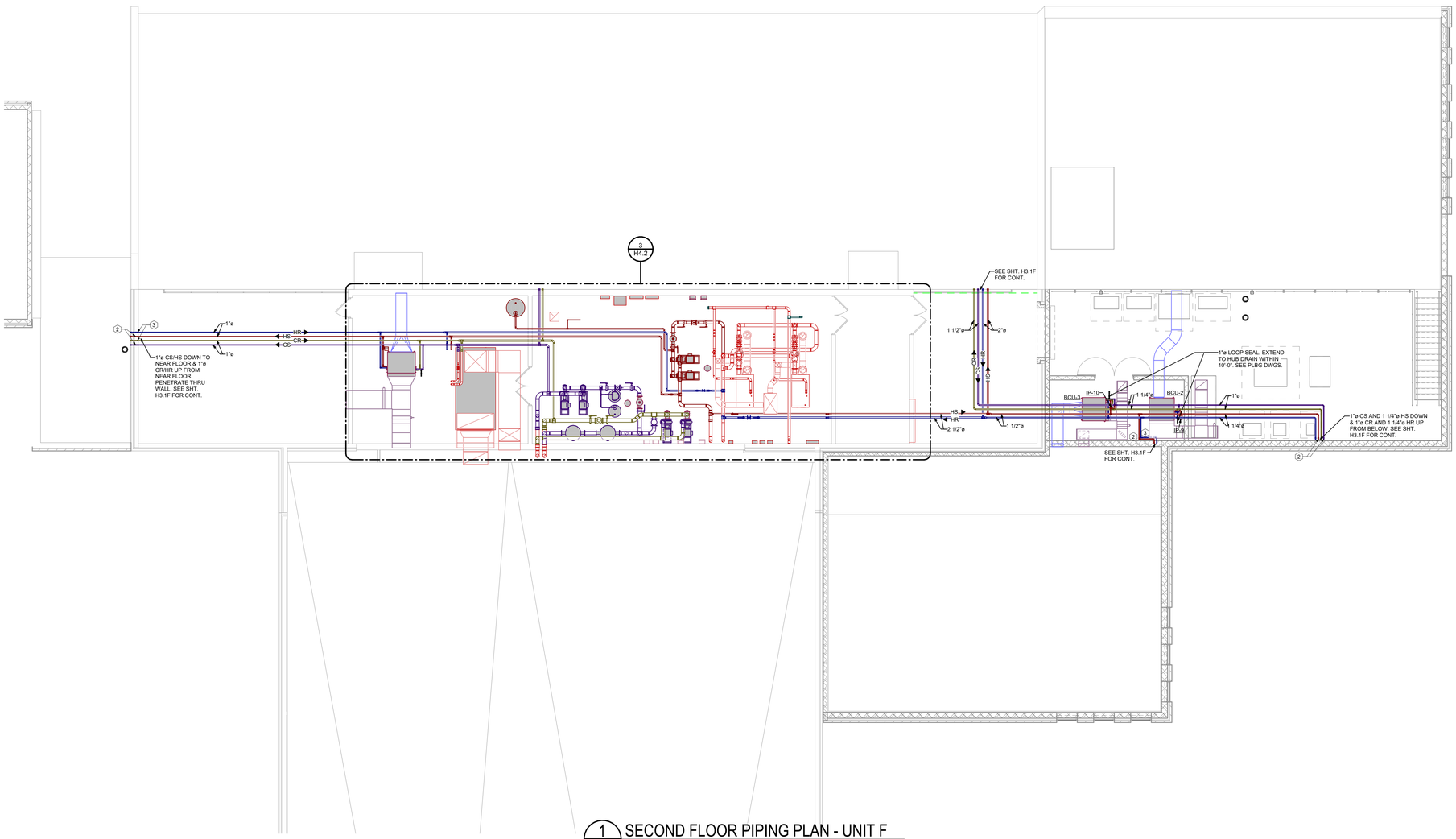
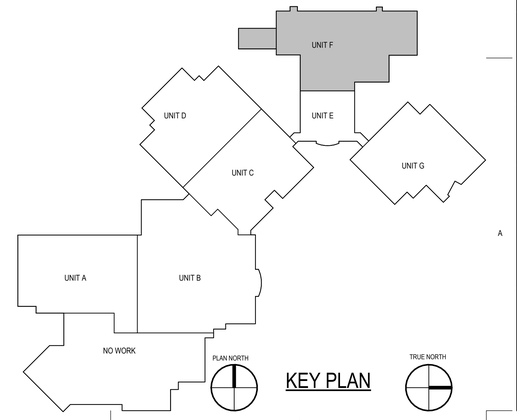
3	RISE



1 H3.2F SECOND FLOOR PIPING PLAN - UNIT F

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'



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UNIT F - SECOND FLOOR PIPING PLAN

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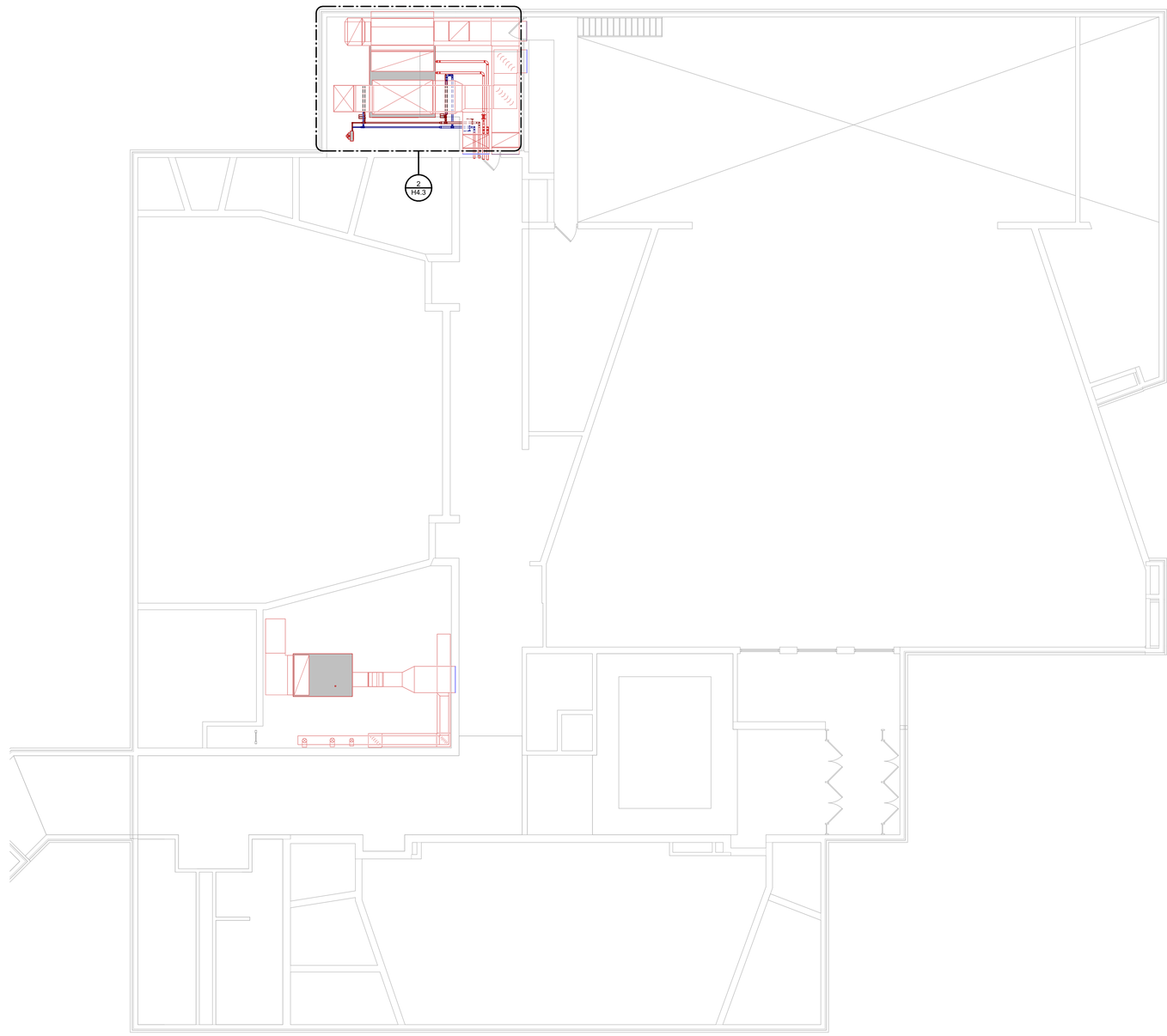
KEYED NOTES	
HEX KEY	DESCRIPTION



1 H3.2G SECOND FLOOR PIPING PLAN - UNIT G

Scale: 1/8" = 1'-0"

0' 4' 8' 16' 24'

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UNIT G - SECOND FLOOR PIPING PLAN

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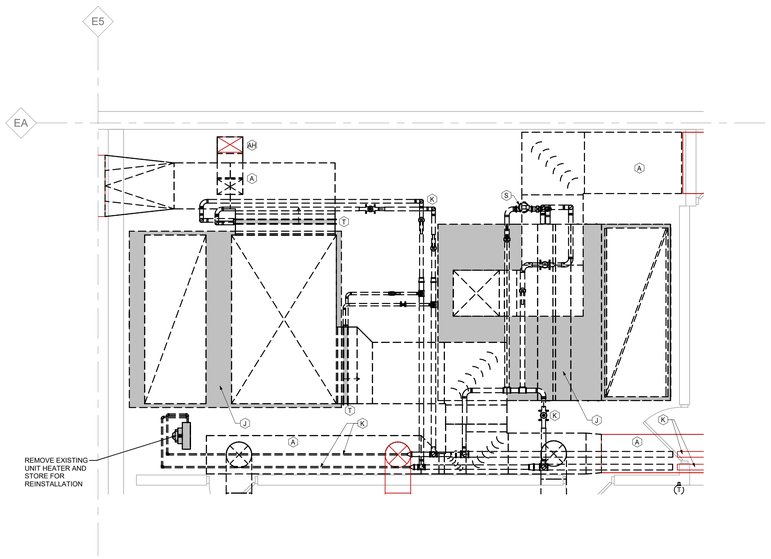
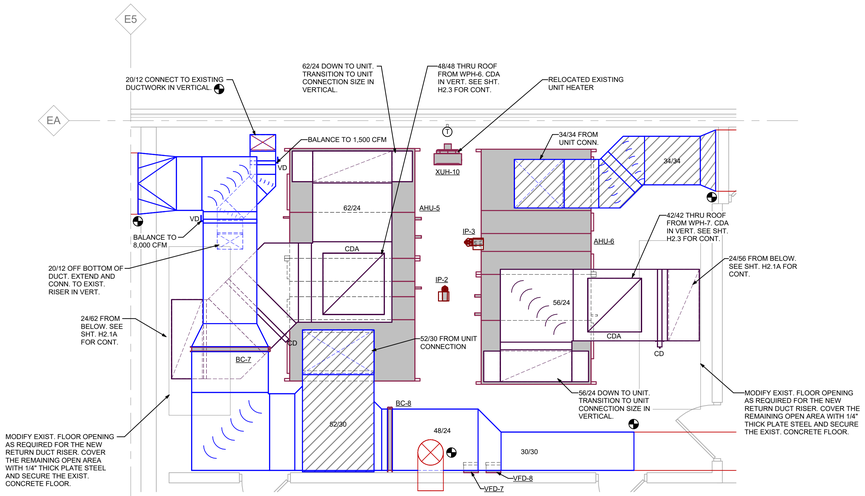
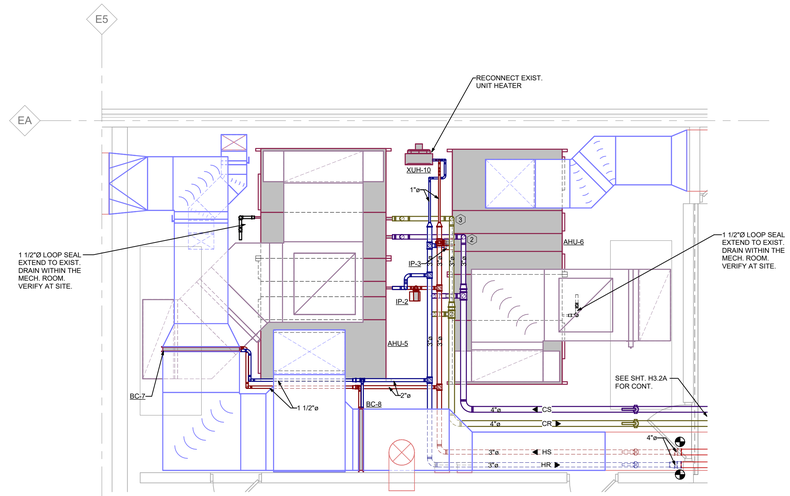
KEYED NOTES	
HEX KEY	**DESCRIPTION**
2	DROP AND VENT
3	RISE
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AH	REMOVE EXIST. DUCTWORK UP TO THE FLOOR PENETRATION FOR RECONNECTION. SEE NEW WORK PLAN.
J	REMOVE EXISTING AIR HANDLING UNIT, EXISITNG CONCRETE PAD, DUCTWORK AS INDICATED, ROOF INTAKE HOOD, DAMPERS, BRANCH PIPING, AND CONTROL. CAP PIPING AT MAINS.
K	REMOVE EXISTING PIPING TO POINT INDICATED.
S	REMOVE EXISTING PUMP, ASSOCIATED VALVES, PIPING AS INDICATED AND PNEUMATIC CONTROL COMPONENTS. TURN OVER PUMP MOTOR TO OWNER.
T	REMOVE EXISTING BOOSTER COIL, BRANCH DUCTWORK, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.



1 GYM MECHANICAL ROOM DEMO
H4.1 Scale: 1/4" = 1'-0"



2 GYM MECHANICAL ROOM DUCTWORK
H4.1 Scale: 1/4" = 1'-0"



3 GYM MECHANICAL ROOM PIPING
H4.1 Scale: 1/4" = 1'-0"

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GYM MECHANICAL ROOM PLANS

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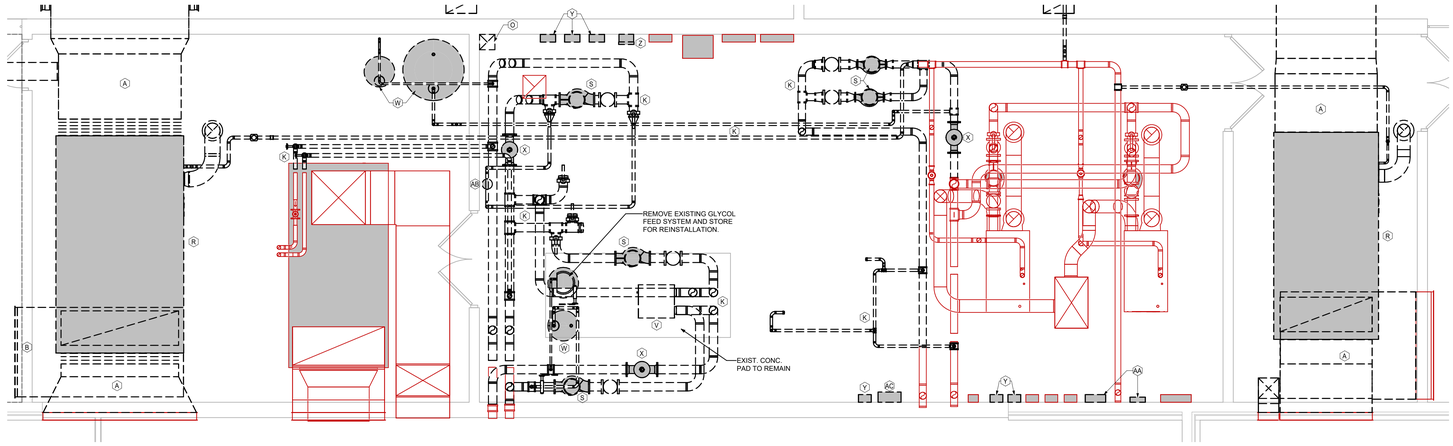
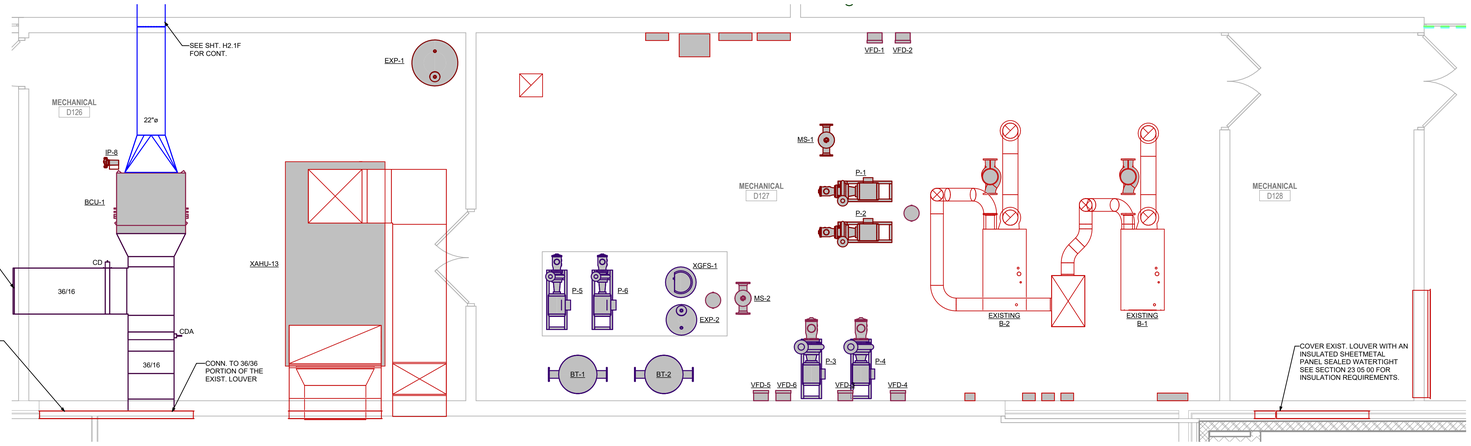


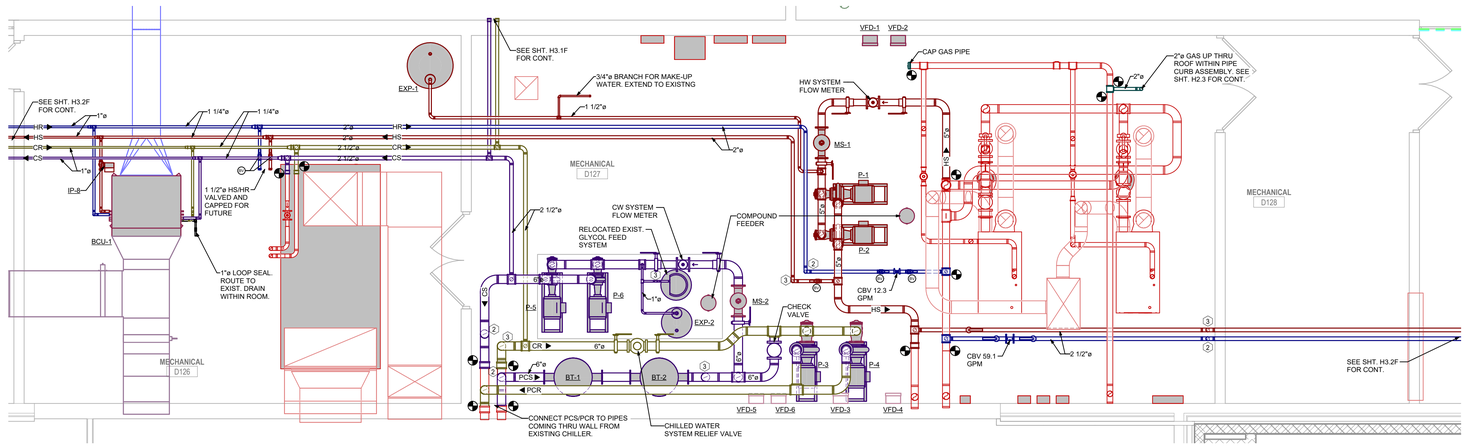
1 / H4.2 WOODS & AUTOS MEZZANINE LEVEL DEMO

Scale: 1/4" = 1'-0"



2 / H4.2 WOODS & AUTOS MEZZANINE LEVEL DUCTWORK

Scale: 1/4" = 1'-0"



3 / H4.2 WOODS & AUTOS MEZZANINE LEVEL PIPING

Scale: 1/4" = 1'-0"

KEYED NOTES	
HEX KEY	**DESCRIPTION**
2	DROP AND VENT
3	RISE
A	REMOVE EXISTING DUCTWORK TO POINT INDICATED.
AA	REMOVE EXISTING TEMPERATURE CONTROL PANELS AND DEVICES.
AB	REMOVE EXISTING COMPOUND FEEDER, ASSOCIATED VALVES AND PIPING AS INDICATED. TURN OVER COMPOUND FEEDER TO OWNER.
AC	REMOVE EXISTING ABANDONED REFR. LEAK DETECTION PANEL.
B	REMOVE EXISTING GRILLE/DIFFUSER AND ASSOCIATED DUCTWORK TO POINT INDICATED. PATCH DUCTWORK AS REQUIRED.
K	REMOVE EXISTING PIPING TO POINT INDICATED.
O	REMOVE EXISTING ROOF EXHAUST FAN, ASSOCIATED DUCTWORK AND CONTROL. ROOF CURB TO REMAIN. CAP CURB WITH AN INSULATED SHEET METAL COVER SEALED WEATHERTIGHT. SEE SECTION 230500 FOR COVER AND INSULATION REQUIREMENTS.
R	REMOVE EXISTING MAKE-UP AIR HANDLING UNIT, DUCTWORK AS INDICATED, WEATHERPROOF LOUVER, ROOFCAP, DAMPERS, BRANCH PIPING, AND CONTROL. CAP PIPING AT MAINS. PATCH ROOF OPENING TO MATCH EXISTING CONSTRUCTION.
S	REMOVE EXISTING PUMP, ASSOCIATED VALVES, PIPING AS INDICATED AND PNEUMATIC CONTROL COMPONENTS. TURN OVER PUMP MOTOR TO OWNER.
V	REMOVE EXISTING HEAT EXCHANGER, ASSOCIATED VALVES AND PIPING AS INDICATED.
W	REMOVE EXISTING EXPANSION TANK, ASSOCIATED VALVES AND PIPING AS INDICATED. TURN OVER EXPANSION TANK TO OWNER.
X	REMOVE EXISTING MAGNETIC AIR AND DIRT SEPARATOR, ASSOCIATED VALVES AND PIPING AS INDICATED.
Y	REMOVE EXISTING MOTOR STARTER.
Z	REMOVE EXISTING VFD.

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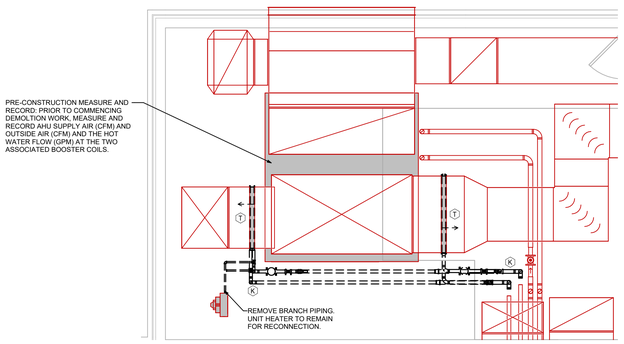
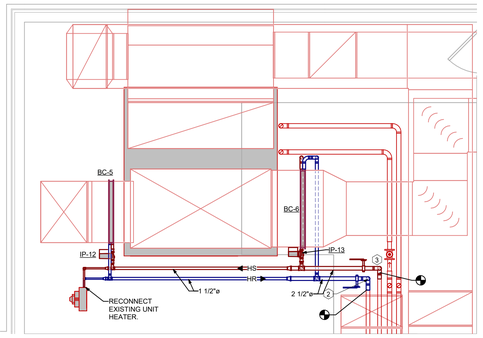


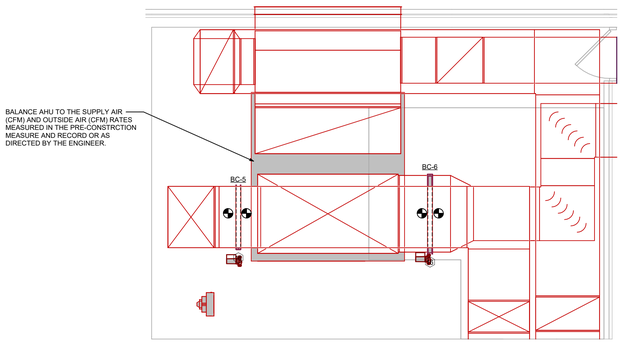
3 H4.3 AUDITORIUM MECH ROOM DEMO

Scale: 1/4" = 1'-0"



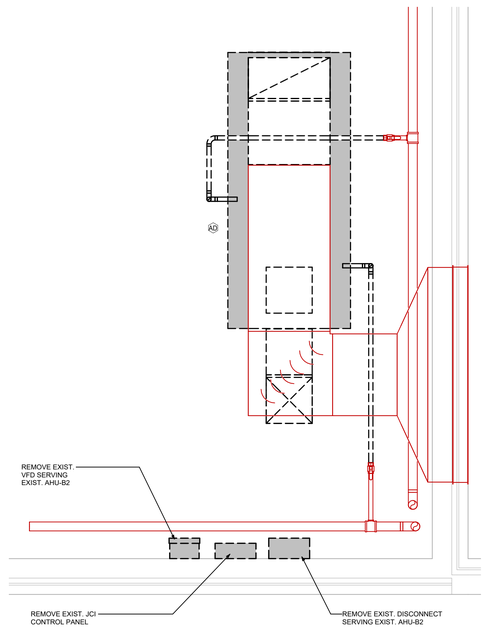
2 H4.3 AUDITORIUM MECH ROOM PIPING

Scale: 1/4" = 1'-0"



1 H4.3 AUDITORIUM MECH ROOM DUCTWORK

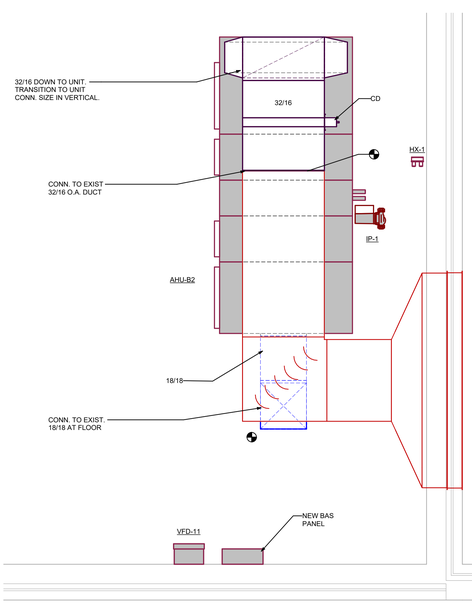
Scale: 1/4" = 1'-0"



4 H4.3 AQUATIC CENTER MECH ROOM DEMO

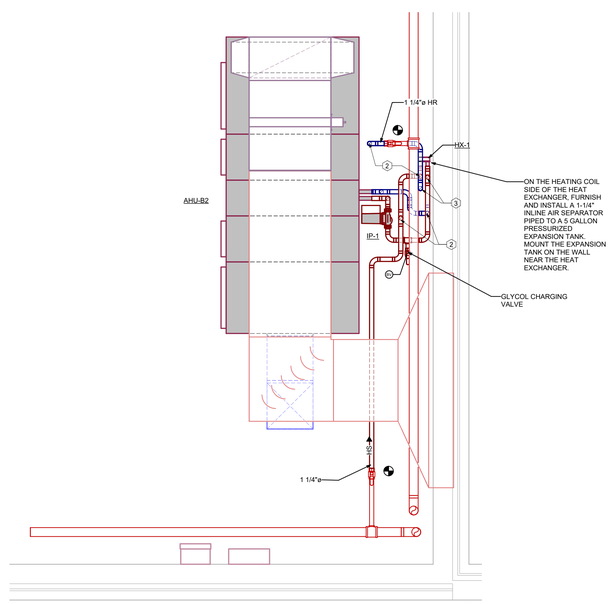
Scale: 1/2" = 1'-0"

KEYED NOTES	
HEX KEY	DESCRIPTION
2	DROP AND VENT
3	RISE
16	INSTALL NEW BOOSTER COIL IN SAME LOCATION AS DEMOLISHED COIL. FIELD VERIFY DIMENSIONS PRIOR TO ORDERING EQUIPMENT.
AD	REMOVE EXISTING AIR HANDLING UNIT, DUCTWORK AS INDICATED, DAMPERS, BRANCH PIPING, AND CONTROL. CAP PIPING AT VALVES.
K	REMOVE EXISTING PIPING TO POINT INDICATED.
T	REMOVE EXISTING BOOSTER COIL, BRANCH DUCTWORK, BRANCH PIPING AND CONTROL. CAP PIPING AT MAINS.



5 H4.3 AQUATIC CENTER MECH ROOM DUCTWORK

Scale: 1/2" = 1'-0"



6 H4.3 AQUATIC CENTER MECH ROOM PIPING

Scale: 1/2" = 1'-0"

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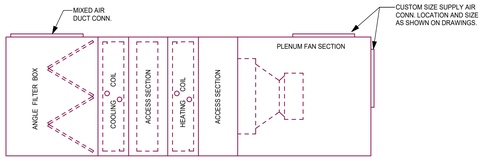
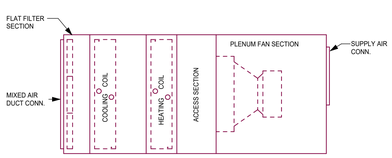
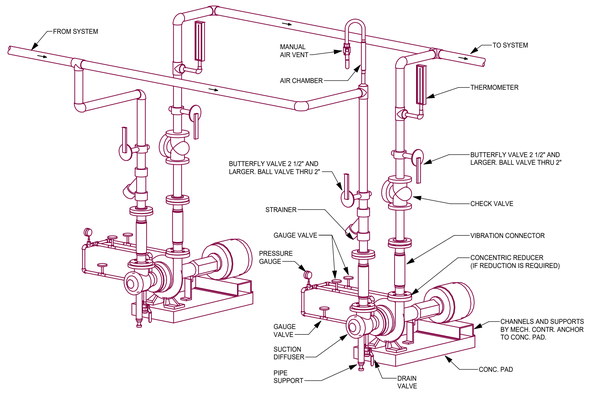


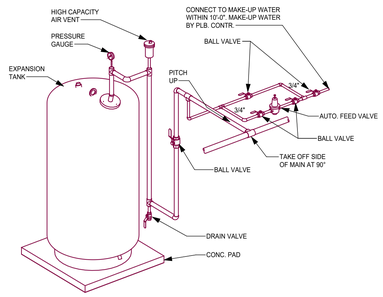
AIR HANDLING UNIT CHILLED WATER COOLING



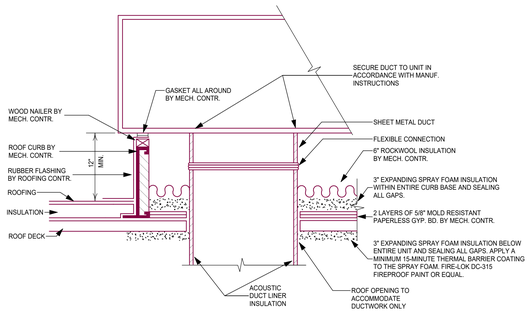
BLOWER COIL UNIT



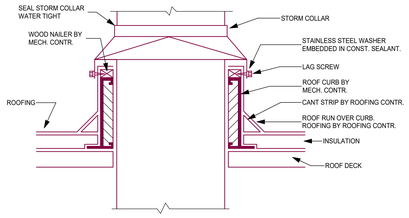
PUMPS



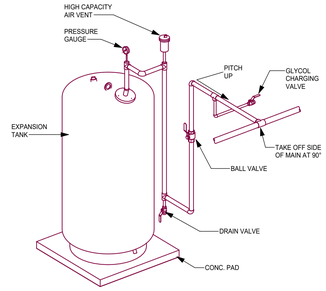
PRESSURIZED TYPE EXPANSION TANK (HW)



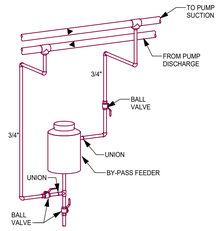
ROOFTOP UNIT CURB AND DUCT CONN.



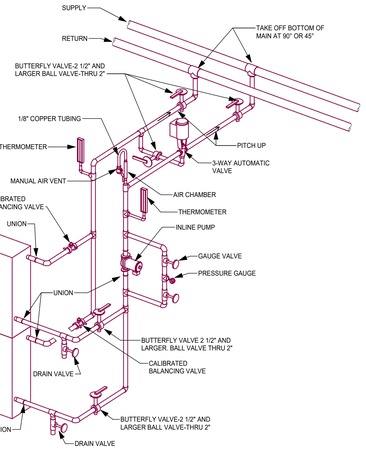
DUCT THRU ROOF



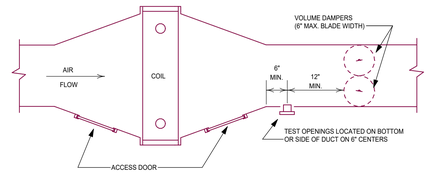
PRESSURIZED TYPE EXPANSION TANK (CW)



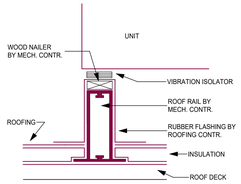
BY-PASS COMPOUND FEEDER



HW HEATING COILS

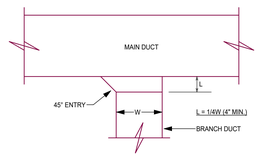


BOOSTER COIL DUCT CONNECTIONS

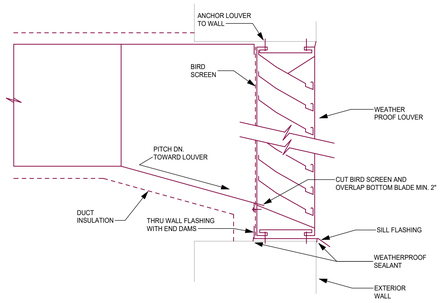


EQUIPMENT SUPPORT RAILS

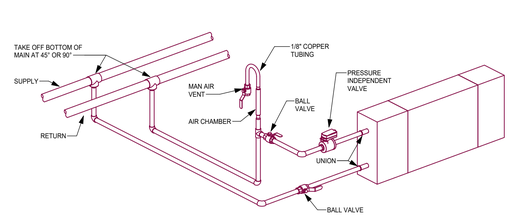
PACK AND CAULK IN HORIZONTAL ASSEMBLY



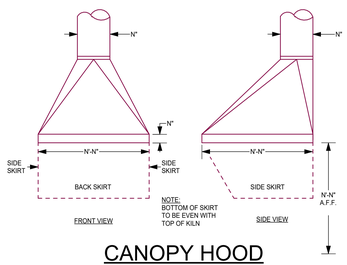
TYPICAL BRANCH CONN.



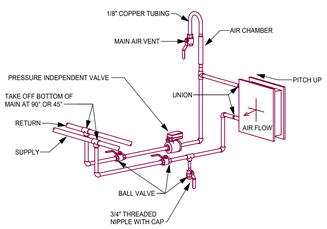
WEATHERPROOF LOUVER



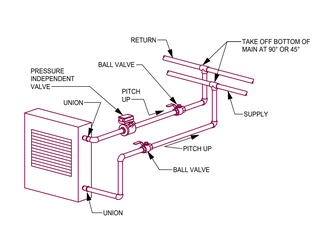
HOT WATER FAN COIL UNIT



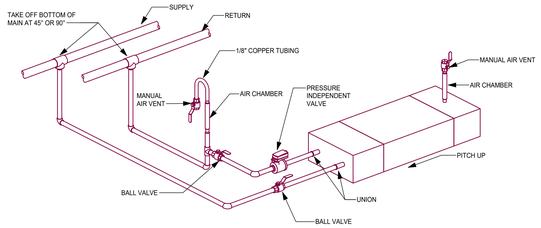
CANOPY HOOD



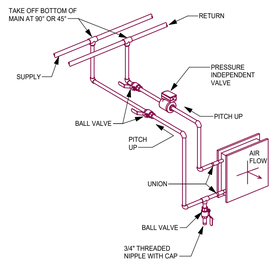
UPFEED HOT WATER BOOSTER COIL



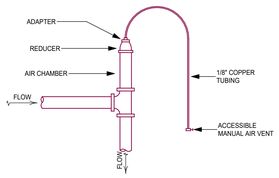
HOT WATER UNIT HEATER



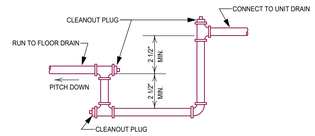
CHILLED WATER FAN COIL UNIT



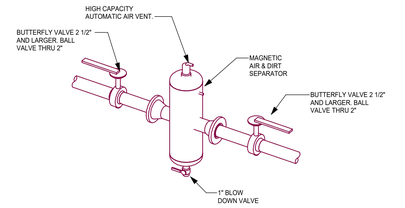
DOWNFEED HOT WATER BOOSTER COIL



AIR VENT



LOOP SEAL



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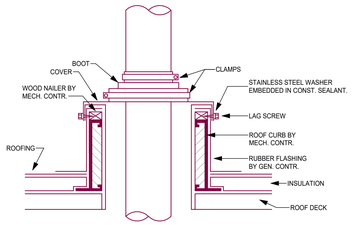
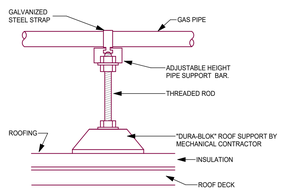
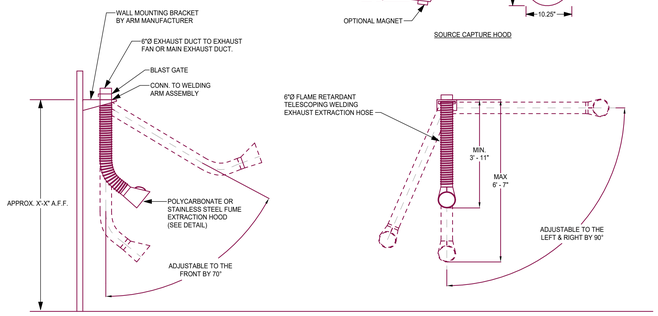


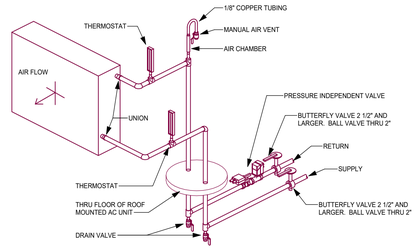
PIPE CURB ASSEMBLY



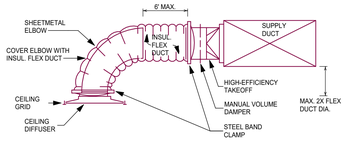
ELEVATED GAS PIPING RUN ABOVE ROOF



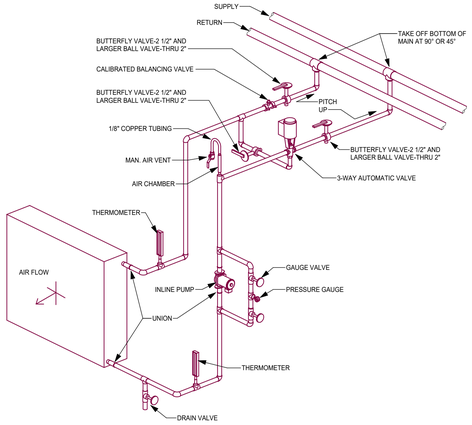
TELESCOPING WELDING EXHAUST



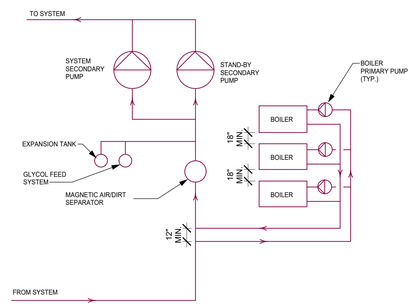
UPFEED CW COOLING COILS



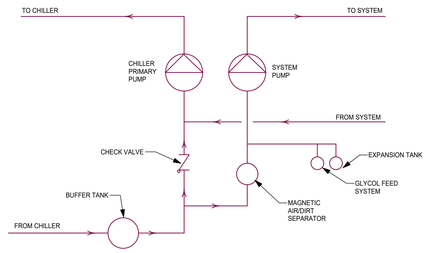
DIFFUSER DETAIL



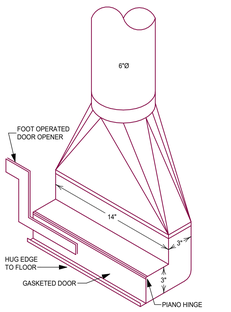
BOOSTER COILS BC-5 AND BC-6



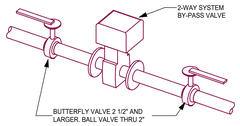
HOT WATER PRIMARY-SECONDARY PIPING SCHEMATIC



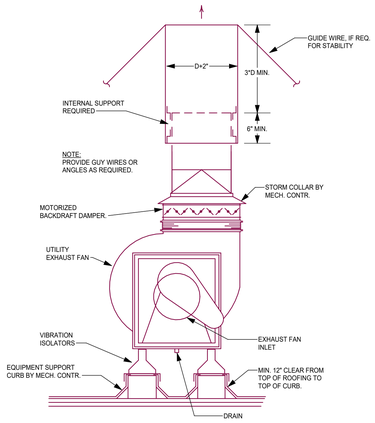
CHILLED WATER PRIMARY-SECONDARY PIPING SCHEMATIC



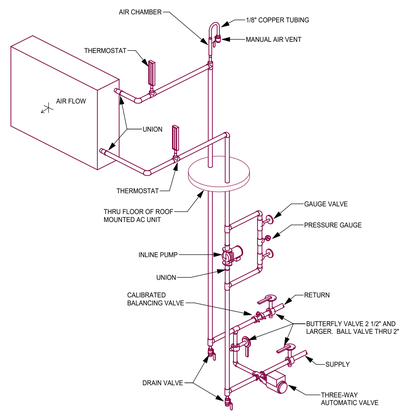
FLOOR SWEEP



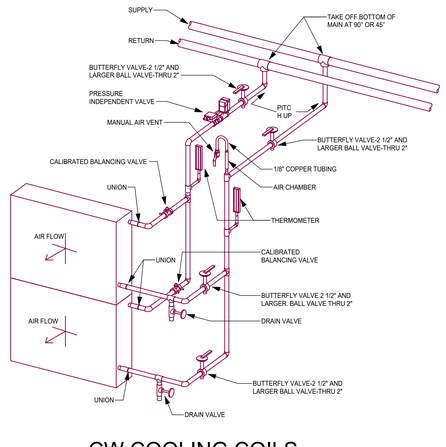
SYSTEM BY-PASS VALVE



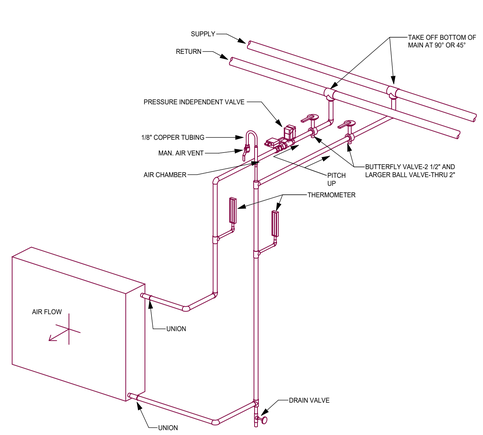
UTILITY SET EXHAUST FAN



UPFEED HW HEATING COILS (PUMPED)



CW COOLING COILS



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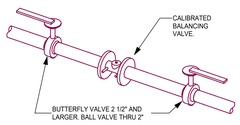
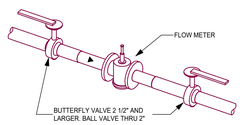
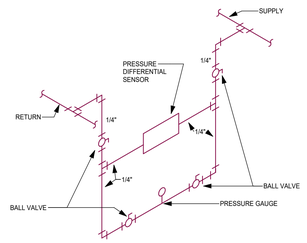


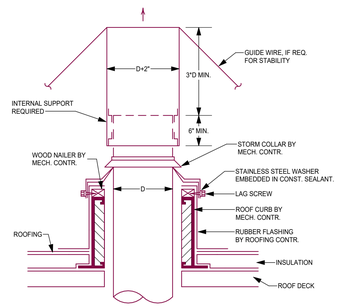
CALIBRATED BALANCING VALVE



IN-LINE SYSTEM FLOW METER



PRESSURE DIFFERENTIAL CONTROLLER PIPING



RAIN COLLAR

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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PLUMBING SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST - NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

PIPING SYSTEMS

CW	DOMESTIC COLD WATER - HARD
CWS	DOMESTIC COLD WATER - SOFT
HW	DOMESTIC HOT WATER - SUPPLY 120
HW-140	DOMESTIC HOT WATER - SUPPLY 140
HWR	DOMESTIC HOT WATER - RETURN 120
HWR-140	DOMESTIC HOT WATER - RETURN 140
NP-CW	NON-POTABLE COLD WATER - HARD
NP-CWS	NON-POTABLE COLD WATER - SOFT
NP-HW	NON-POTABLE HOT WATER - SUPPLY
NP-HWR	NON-POTABLE HOT WATER - RETURN
DI	DEIONIZED WATER
RO	REVERSE OSMOSIS WATER
TW	TEMPERED WATER - SUPPLY
TWR	TEMPERED WATER - RETURN
SAN	SANITARY WASTE
V	SANITARY VENT
GW	GREASE WASTE
AW	ACID WASTE
AV	ACID VENT
ST	STORM DRAINAGE - PRIMARY
OF	OVERFLOW DRAINAGE - SECONDARY
CLV	CLEAR WATER VENT
CLW	CLEAR WATER WASTE
DT	DRAIN TILE
PW	PROCESS WASTE
PV	PROCESS VENT
PD	PUMPED DISCHARGE
EXHAUST	EQUIPMENT - EXHAUST
INTAKE	EQUIPMENT - INTAKE
CA	COMPRESSED AIR
G	NATURAL GAS
LP	LIQUID PROPANE
M-AIR	MEDICAL - AIR
M-CO	MEDICAL - CARBON DIOXIDE
M-N	MEDICAL - NITROGEN
M-NO	MEDICAL - NITROUS OXIDE
M-OX	MEDICAL - OXYGEN
M-VAC	MEDICAL - VACUUM
ACE	WELDING - ACETYLENE
ARG	WELDING - ARGON
ARG/CO	WELDING - ARGON/CARBON DIOXIDE
OX	WELDING - OXYGEN
WV	WELDING - VENT
	DEMOLISHED PIPING

ACCESSORIES

- BACKFLOW PREVENTER - DC
- BACKFLOW PREVENTER - DCDA
- BACKFLOW PREVENTER - PVB
- BACKFLOW PREVENTER - RP
- BALL VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- BACKWATER VALVE
- CHECK VALVE
- GATE VALVE
- THERMOSTATIC MIXING VALVE
- DRAIN TEMPERING VALVE
- THREE WAY VALVE - ELECTRICAL
- THREE WAY VALVE
- PRESSURE REDUCING VALVE
- SOLENOID VALVE
- MECHANICAL VALVE
- SUCTION DIFFUSER
- THERMOMETER
- WATER HAMMER ARRESTER
- PRESSURE GAUGE

FITTINGS

- ELBOW LONG SWEEP 90
- ELBOW SHORT SWEEP 90
- ELBOW
- TEE
- TEE
- CROSS
- TEE DOUBLE
- WYE 45 DEG
- WYE 45 DEG DOUBLE
- WYE COMBINATION
- WYE COMBINATION DOUBLE
- CAP
- COUPLING
- PLUG
- PIPE BREAKLINE
- P TRAP
- PIPE DROP / DOWN
- PIPE RISE / UP
- PIPE BRANCH RISE / UP
- PIPE BRANCH DROP / DOWN
- 2" SAN — PIPE TAG: SIZE & SYSTEM ABBREVIATION
- 2" — PIPE TAG: SIZE
- SAN — PIPE TAG: SYSTEM ABBREVIATION
- 2" (0) — PIPE TAG: SIZE & FIXTURE UNITS
- 2" SAN (0) — PIPE TAG: SIZE & SYSTEM ABBREVIATION & FIXTURE UNITS

GENERAL ANNOTATION SYMBOLS

- X / XXX-X — REFERS TO PLAN KEYNOTE NUMBER
- XXX — FIXTURE AND EQUIPMENT TAG
- XXX — SPECIALTY EQUIPMENT REFERENCE TAG
- XX / XXX — DETAIL NUMBER; SHEET NO. WHERE DETAIL IS LOCATED
- X / XXX — VIEW REFERENCE TAG
- XX / XXX — VIEW REFERENCE TAG
- PIPE BREAKLINE
- CONNECT NEW TO EXISTING
- 1 — REVISION NUMBER
- ARCH = XXX.XX' / CIVIL = XXX.XX' — ELEVATION MARKER

ABBREVIATIONS

ABV	ABOVE
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT / ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BJ	BETWEEN JOISTS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALANCE VALVE
CB	CONSTRUCTION BULLETIN
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CM	CONSTRUCTION MANAGER
CLG	CEILING
CTE	CONNECT TO EXISTING
DEG	DEGREE(S)
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FFE	FINISHED FLOOR ELEVATION
FPC	FIRE PROTECTION / SPRINKLER CONTRACTOR
FT	FOOT / FEET
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC	HVAC CONTRACTOR
HP	HORSE POWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN	INCH
INV	INVERT
LB	POUND
LF	LINEAR FOOT / FEET
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIN	MINUTE
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø	DIAMETER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRESS	PRESSURE
PS	PROJECT SUPPLEMENT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
REC	RECESSED
REV	REVISION
RI	ROUGH-IN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCOUNTER
UG	UNDERGROUND
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT

PLUMBING CONNECTION SCHEDULE

TAG	DESCRIPTION	COLD WATER CONNECTION SIZE	CWFU	HOT WATER CONNECTION SIZE	HWFU	WASTE CONNECTION SIZE	WFU
	<varies>		<varies>		<varies>		<varies>
	Hydrant	3/4	0.5	1/2	-		-
CB-1	CATCH BASIN	-	-		-	4	3
DSN-1	FLOOR DRAIN	-	-	-	-	SEE PLAN	-
EEW-1	EMERGENCY EYE WASH	-	-	-	-	2	-
FD-1	FLOOR DRAIN	-	-	-	-	3	4
FD-2	FLOOR DRAIN	-	-	-	-	3	4
FD-3	FLOOR DRAIN	-	-	-	-	SEE PLAN	3
FS-1	FLOOR SINK	-	-	-	-	4	6
HB-1	EXTERIOR HOSE BIBB	3/4	4	-	-	-	-
HB-2	INTERIOR HOSE BIBB	3/4	4	-	-	-	-
HD-1	HUB DRAIN	-	-	-	-	SEE PLAN	<varies>
HR-1	HOSE REEL	1/2	3		-		-
L-1	LAVATORY	1/2	0.5	1/2	0.5	SEE PLAN	1
MB-1	SERVICE SINK	3/4	2	3/4	2	3	3
OD-1	OVERFLOW DRAIN	-	-	-	-	SEE PLAN	N/A
RD-1	ROOF DRAIN	-	-	-	-	SEE PLAN	N/A
S-1	SINK	1/2	1		1	1 1/2	1
S-2	SINK	1/2	1		1	1 1/2	1
S-3	SERVICE SINK	3/4	2	3/4	2	2	2
SS-1	SERVICE SINK	3/4	2	3/4	2	3	3
SS-2	SERVICE SINK	3/4	2	3/4	2	2	2
SS-3	SERVICE SINK	3/4	2	3/4	2	2	2
VB-1	VALVE BOX	3/4	0.5	1/2	-		-
VB-2	VALVE BOX	1/2	2	1/2	2	1 1/2	4
WC-1	WATER CLOSET	1 1/4	6.5	-	-	4	6
WF-1	WASH FOUNTAIN		1.5		1.5		2
WGT-1	WELDING GAS TERMINATION	-	N/A		-		-

INFORMATION REQUIRED TO SIZE WATER SERVICE AND WATER DISTRIBUTION

1-	Demand of building in water supply fixture units:	(WSFU)	607.5
1.a.	Demand of building in WSFU converted to Gallons Per Minute:	(GPM)	157.975
2-	Elevation difference from main or external pressure tank to building control valve:	(feet)	0
3-	Size of water meter	(in)	4
4-	Developed length from main or external pressure tank to building control valve:	(feet)	600
5-	Low pressure at main in street or external pressure tank:	(psig)	48.90

WATER SERVICE PRESSURE LOSS

6-	Low pressure at main in street or external pressure tank	(psig)	48.90
7-	Determine pressure loss due to friction in water service.		
	Water Service Size	(in)	8
	Water Service Pipe Material		Copper - L
	Pressure loss per 100 ft.	(psig)	0.03
8-	Pressure loss or gain due to elevation:	(psig)	0
9-	Available pressure after the bldg. control valve:	(psig)	48.87

PRESSURE AVAILABLE FOR UNIFORM LOSS

	Pressure loss of backflow preventer	(psig)	0
	Pressure loss of water meter	(psig)	2
	Miscellaneous Pressure Losses	(psig)	0
	Safety Factor	(psig)	0
	Booster Pump Outlet Pressure	(psig)	0
	Pressure Available for Distribution	(psig)	46.74

			CW HB-1 C129B	HW EEW-1 C120	CW EEW-1 C120	CWS WC-1 A107E	CW HB-1 A108	HW S-2 B135
D.	Controlling Fixture:							
	Location of controlling fixture							
	Pressure at controlling fixture:	(psig)	25	30	30	30	20	30
E.	Difference in elevation between building control valve and the controlling fixture:	(feet)	2	2	2	-1	-1	-1
F.	Pressure loss due to Backflow Preventer	(psig)	0	0	0	0	0	0
	Pressure loss due to Water Treatment	(psig)	0	10	10	10	0	10
	Pressure loss due to Master Mixing Valve	(psig)	0	0	0	0	0	0
	Pressure loss due to Emergency Mixing Valve	(psig)	0	5	5	0	0	0
G.	Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture:	(psig)	0	0	0	0	0	0
H.	Developed length from building control valve to controlling fixture in feet	(feet)	285	260	260	500	500	575
A.	**Pressure available for uniform loss:**	**(psig/100')**	**4.88**	**0.22**	**0.22**	**0.96**	**3.62**	**0.83**
	Water Distribution piping is:							
	Mains:		Copper - L					
	Branches:		Copper - L					

GENERAL DEMOLITION NOTES

1. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING ITEMS SHOWN ON THESE DRAWING REFLECT A COMBINATION OF THE EXISTING CONTRACT DRAWINGS, AS-BUILT RECORD DRAWINGS, FIELD SURVEYS AND THE ENGINEER'S ESTIMATION OF PIPE ROUTES. ALL EXISTING PIPE LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. NOTIFY THE ENGINEER FOR ANY REUSE OF EXISTING PIPING THAT IS IN GOOD CONDITION AND SIZE APPROPRIATELY.
3. ITEMS SHOWN AS HEAVY DASHED ARE TO BE DEMOLISHED.
4. ITEMS SHOWN AS LIGHTER ARE EXISTING TO REMAIN.
5. COORDINATE DEMOLITION OF EXISTING PIPING TO BE REMOVED WITH GENERAL CONTRACTOR.
6. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
7. WHERE EXISTING PIPING IS SHOWN TO BE REMOVED, CAP BRANCH PIPE IF NOT BEING USED FOR NEW CONSTRUCTION.

GENERAL INSTALLATION NOTES

1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
2. PLUMBING INSTALLATION SHALL BE INSTALLED PER WISCONSIN UNIFORM PLUMBING CODE AND PER LOCAL PLUMBING CODE FOR ITEMS NOT NOTED OR SHOWN ON THESE DRAWINGS.
3. EXISTING ITEMS SHOWN ON THESE DRAWING REFLECT A COMBINATION OF THE EXISTING CONTRACT DRAWINGS, AS-BUILT RECORD DRAWINGS, FIELD SURVEYS AND THE ENGINEER'S ESTIMATION OF PIPE ROUTES. ALL EXISTING PIPE LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. REROUTE NEW PIPING AS REQUIRED PER FIELD CONDITIONS.
4. FIELD VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND SIZE AT POINT OF CONNECTION AND THAT NEW PIPE ROUTE IS CLEAR OF UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF ANY UNDERGROUND PIPING. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. ALL PIPING IS TO BE CONCEALED. IF BUILDING CONSTRUCTION DOES NOT PERMIT CONCEALING PIPING, LOCATIONS AND ROUTING ARE TO BE APPROVED BY ARCHITECT/OWNER PRIOR TO INSTALLATION.
6. ROUTE ALL PIPING IN COORDINATION WITH OTHER TRADES.
7. FLOOR AND WALL CLEANOUT LOCATIONS NOT PERMITTED TO BE MOVED WITHOUT APPROVAL OF ARCHITECT/ENGINEER.
8. SEE ARCHITECTURAL PLANS FOR ADA RELATED INSTALLATION DETAILS.
9. SEE STRUCTURAL FOOTING, TRUSS, AND JOIST ELEVATIONS AND DETAILS.
10. SEE HVAC PLANS FOR AREAS THAT ARE USED AS A RETURN AIR PLENUM. PROVIDE PLENUM RATED PIPE OR PIPE WRAP AS PER PROJECT'S PLUMBING SPECIFICATIONS.
11. SEE HVAC PLANS AND HVAC CONTRACTOR FOR FINAL LOCATION OF HVAC EQUIPMENT IN MECHANICAL / BOILER ROOMS TO COORDINATE FINAL LOCATIONS OF FLOOR / HUB / SITE DRAINS PRIOR TO INSTALLATION.
12. SEE PLUMBING ISOMETRIC SHEETS FOR PIPE SIZE AND LOAD INFORMATION NOT SHOWN ON FLOOR PLANS.
13. SLOPE ALL SANITARY AND STORM PIPING 3" AND LARGER AT 1/8"/FT UNLESS NOTED OTHERWISE.
14. SLOPE ALL SANITARY AND STORM PIPING 2" AND SMALLER AT 1/4"/FT UNLESS NOTED OTHERWISE.
15. SLOPE ALL SANITARY GREASE WASTE PIPING AT 1/4"/FT UNLESS NOTED OTHERWISE.
16. INSTALL CLEANOUTS AT STACKS WHICH PENETRATE THE LOWEST FLOOR LEVEL 30" A.F.F. UNLESS NOTED OTHERWISE.
17. PROVIDE ISOLATION BALL VALVES AND BALANCING VALVES TO ISOLATE COLD WATER, HOT WATER SUPPLY, AND HOT WATER RETURN BRANCH PIPING FROM ITS COLD WATER, HOT WATER SUPPLY AND HOT WATER RETURN MAIN PIPING FOR EACH PLUMBING FIXTURE OR ROOMS WITH MULTIPLE PLUMBING FIXTURES. ALL WATER SUPPLY PIPING SHALL BE FLUSHED AND HOT WATER PIPING SYSTEM BALANCED BY PLUMBING CONTRACTOR. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
18. INSTALL EXTERIOR HOSE BIBBS AT 18" A.F.F. UNLESS NOTED OTHERWISE.
19. INSTALL INTERIOR HOSE BIBBS AT 36" A.F.F. UNLESS NOTED OTHERWISE.
20. INSTALL DOWN SPOUT NOZZLES AT 18" A.F.F. UNLESS NOTED OTHERWISE.

PLUMBING SHEET INDEX

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P3.1F1	WATER ISOMETRIC	Plumbing
P3.1F2	WATER ISOMETRIC	Plumbing
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P5.1	FIXTURE SCHEDULES	Plumbing

DESIGN PROFESSIONAL

NAME: ALEX FEUDNER, PE
COMPANY: MSA
EMAIL: AFEUDNER@MSA-PS.COM
PHONE: (608) 355-8869
MSA PROJECT: 00377241

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

ENGINEERING DESIGN BY MSA
(800) 362-4505 • www.msa-ps.com

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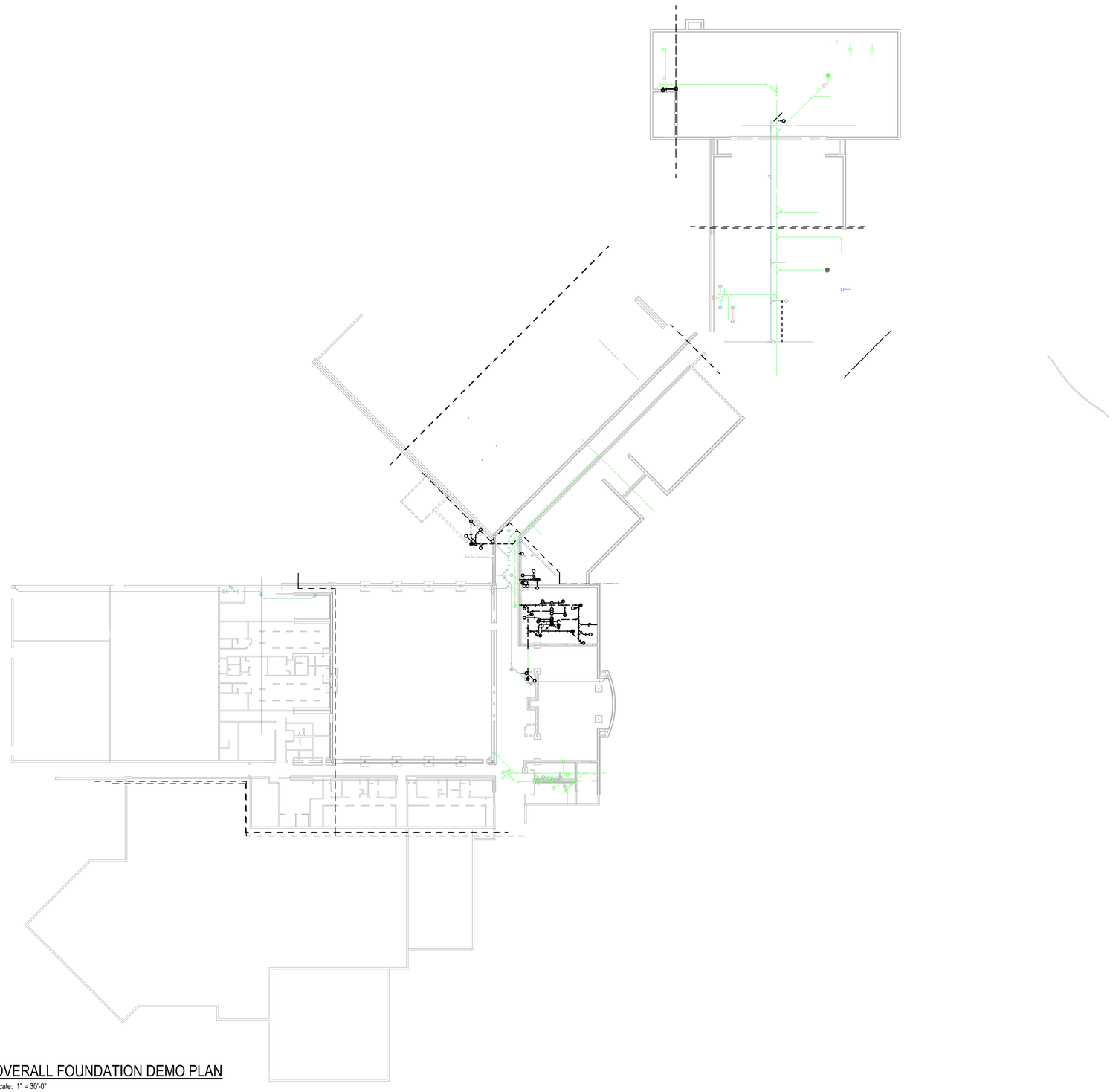
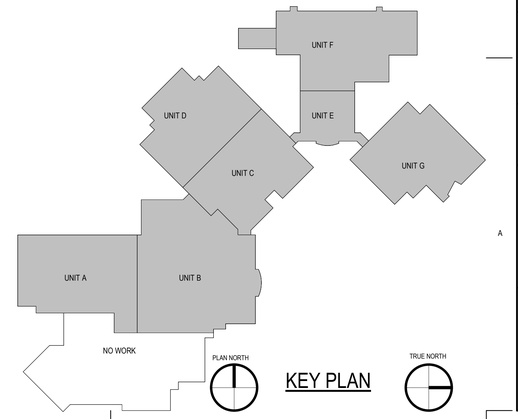


1 P0.0 OVERALL FOUNDATION DEMO PLAN
Scale: 1" = 30'-0"



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Milwaukee
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T: 414.226.0200
Sheboygan • Davenport
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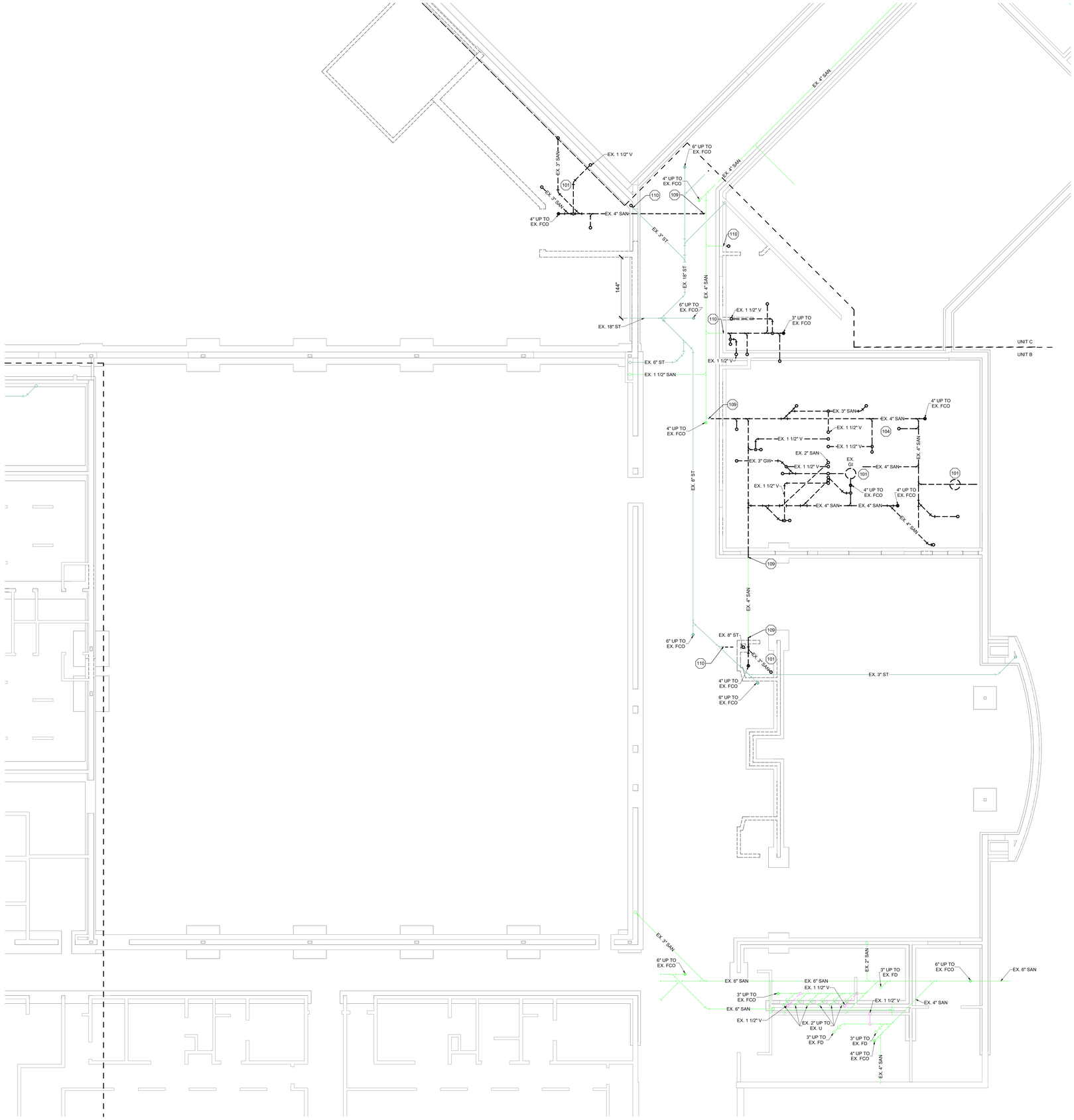
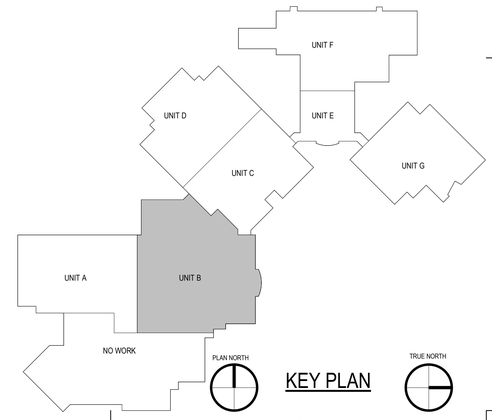


1 P0.0B FOUNDATION DEMO PLAN - UNIT B

Scale: 1/8" = 1'-0"

SHEET KEYNOTES

101	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE / EQUIPMENT. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. THE EXISTING PIPING SHALL BE CAPPED BACK TO ITS ACTIVE MAIN OR BRANCH PIPING.
104	REMOVE AND SAVE EXISTING PLUMBING FIXTURE / EQUIPMENT. ASSOCIATED TRIM SHALL BE REMOVED AND DISPOSED OF. EXISTING WATER AND WASTE SUPPLY PIPING SHALL REMAIN FOR FUTURE RECONNECTION OF EXISTING PLUMBING FIXTURE AND NEW ASSOCIATED TRIM IN THE NEW CONSTRUCTION PHASE.
109	REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND CAP.
110	REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND TEMPORARILY CAP FOR REUSE DURING NEW CONSTRUCTION PHASE.



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Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200
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www.brayarch.com

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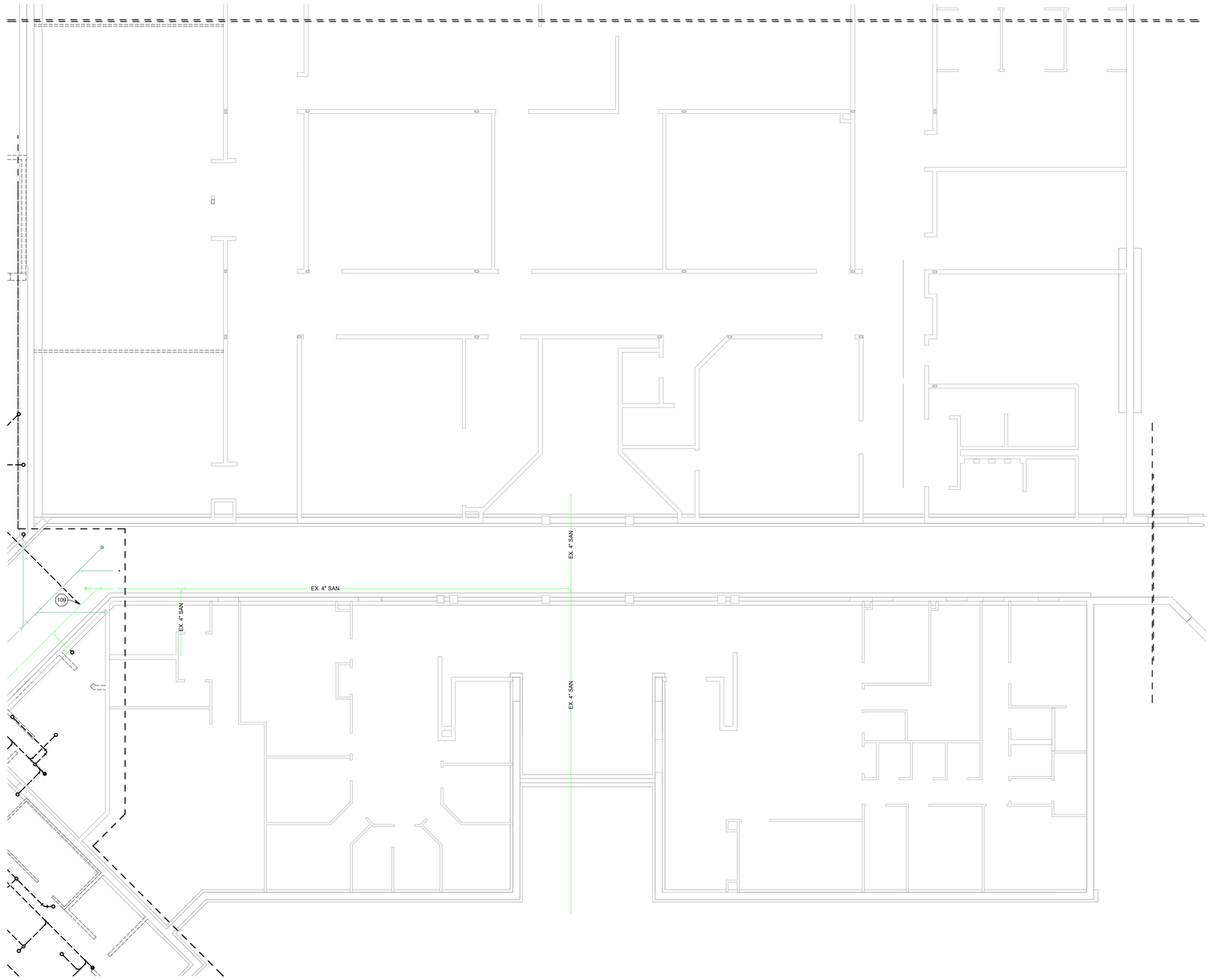
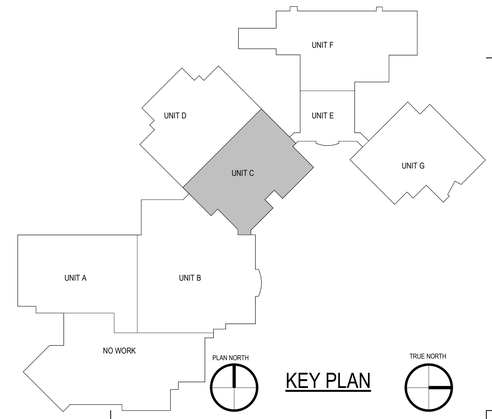
SHEET KEYNOTES

109	REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND CAP.



1 P0.0C FOUNDATION DEMO PLAN - UNIT C
Scale: 1/8" = 1'-0"



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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SHEET KEYNOTES

101	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE / EQUIPMENT. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. THE EXISTING PIPING SHALL BE CAPPED BACK TO ITS ACTIVE MAIN OR BRANCH PIPING.
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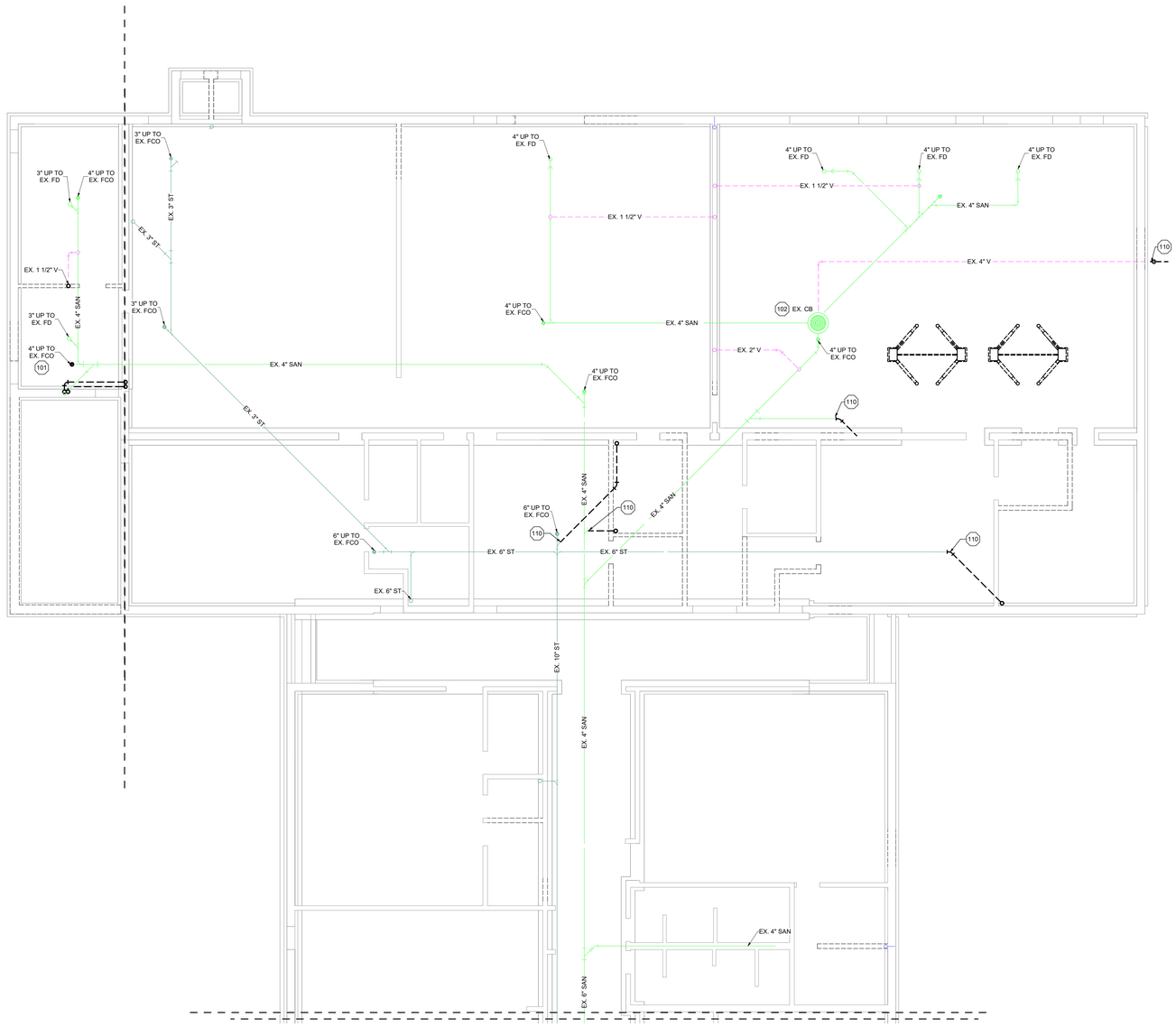
110	REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND TEMPORARILY CAP FOR REUSE DURING NEW CONSTRUCTION PHASE.



1 P0.0F FOUNDATION DEMO PLAN - UNIT F
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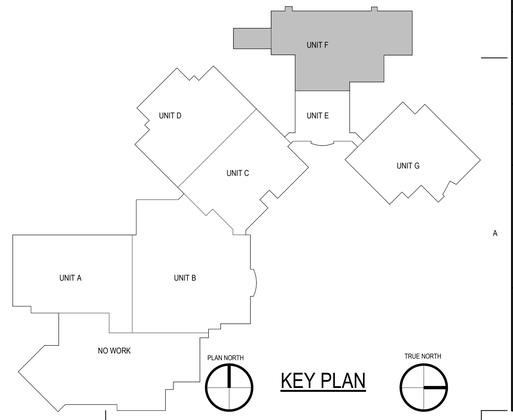

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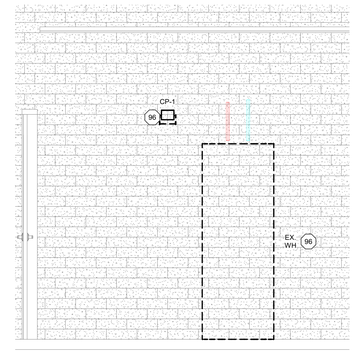
SHEET KEYNOTES

96	REMOVE AND DISPOSE OF EXISTING WATER HEATER AND CIRCULATING PUMP. LEAVE EXISTING PIPING IN PLACE FOR FUTURE CONNECTION
101	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE / EQUIPMENT. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. THE EXISTING PIPING SHALL BE CAPPED BACK TO ITS ACTIVE MAIN OR BRANCH PIPING.



2 P0.1 EXISTING WATER HEATER ELEVATION
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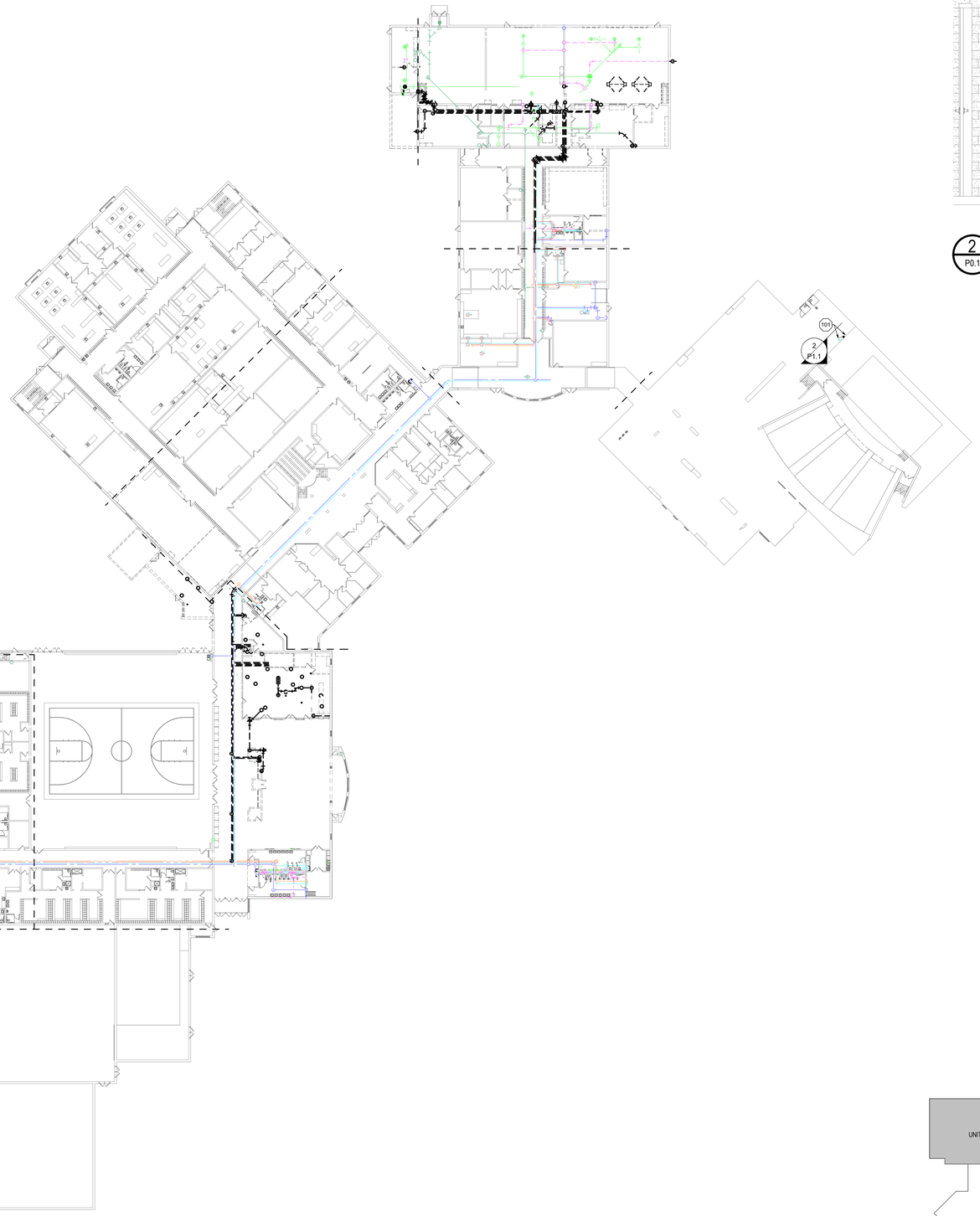
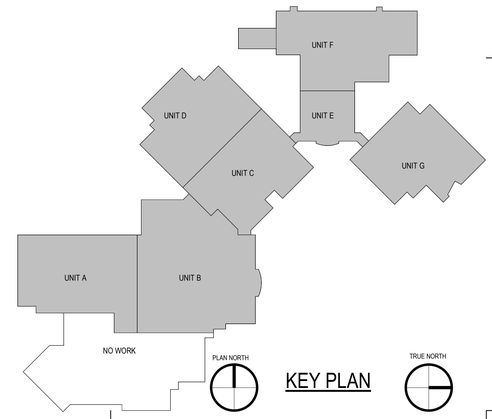


1 P0.1 OVERALL FIRST FLOOR DEMO PLAN
Scale: 1" = 30'-0"



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Milwaukee
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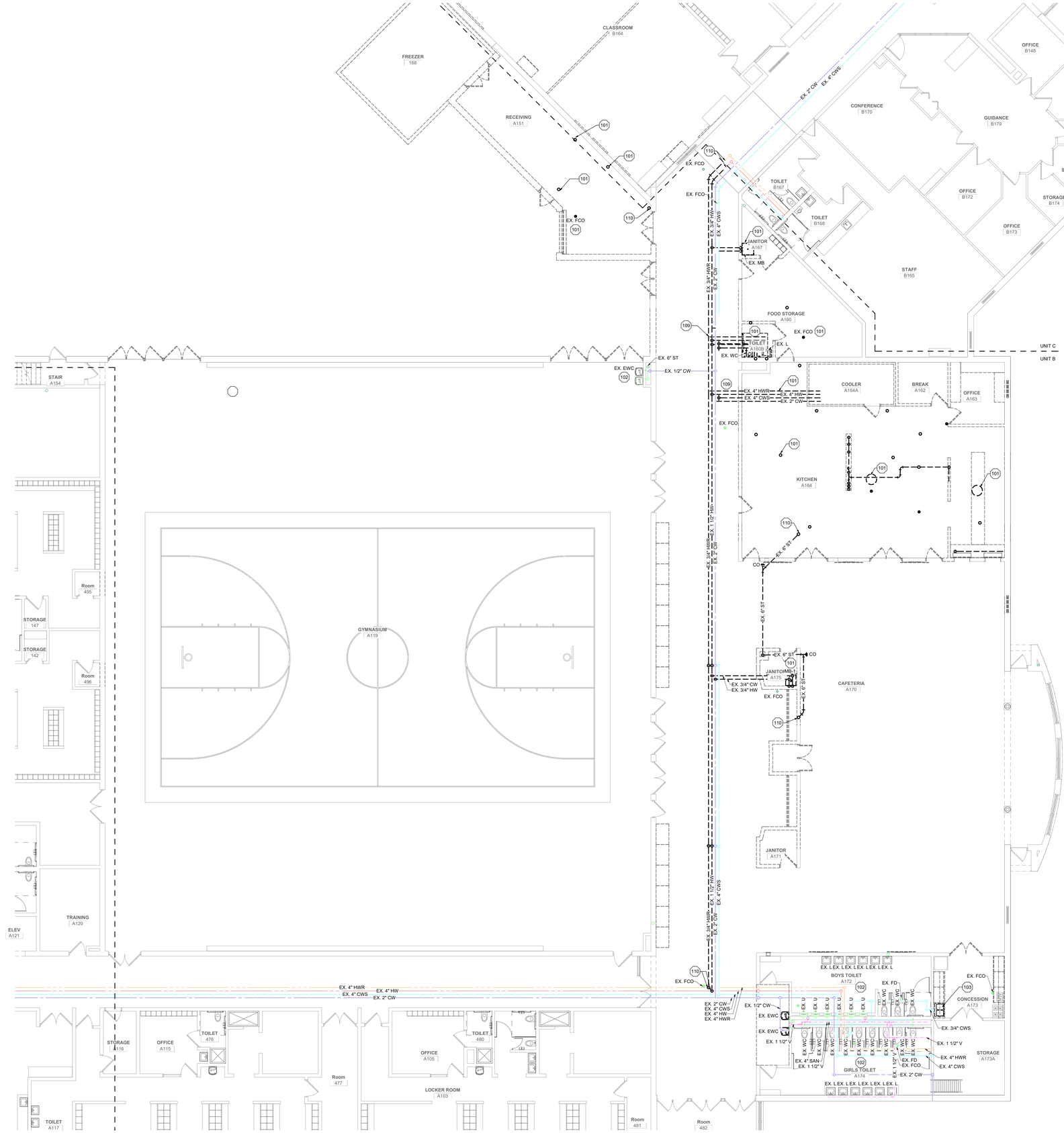

SHEET KEYNOTES

101	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE / EQUIPMENT. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. THE EXISTING PIPING SHALL BE CAPPED BACK TO ITS ACTIVE MAIN OR BRANCH PIPING.
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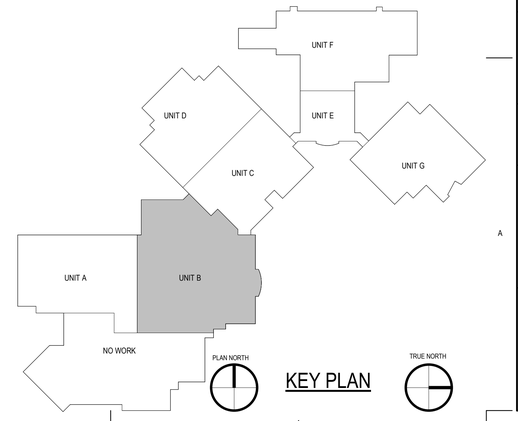
1 P0.1B FIRST FLOOR DEMO PLAN - UNIT B
Scale: 1/8" = 1'-0"



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Milwaukee
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Milwaukee, Wisconsin 53204
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UNIT B - FIRST FLOOR DEMO PLAN

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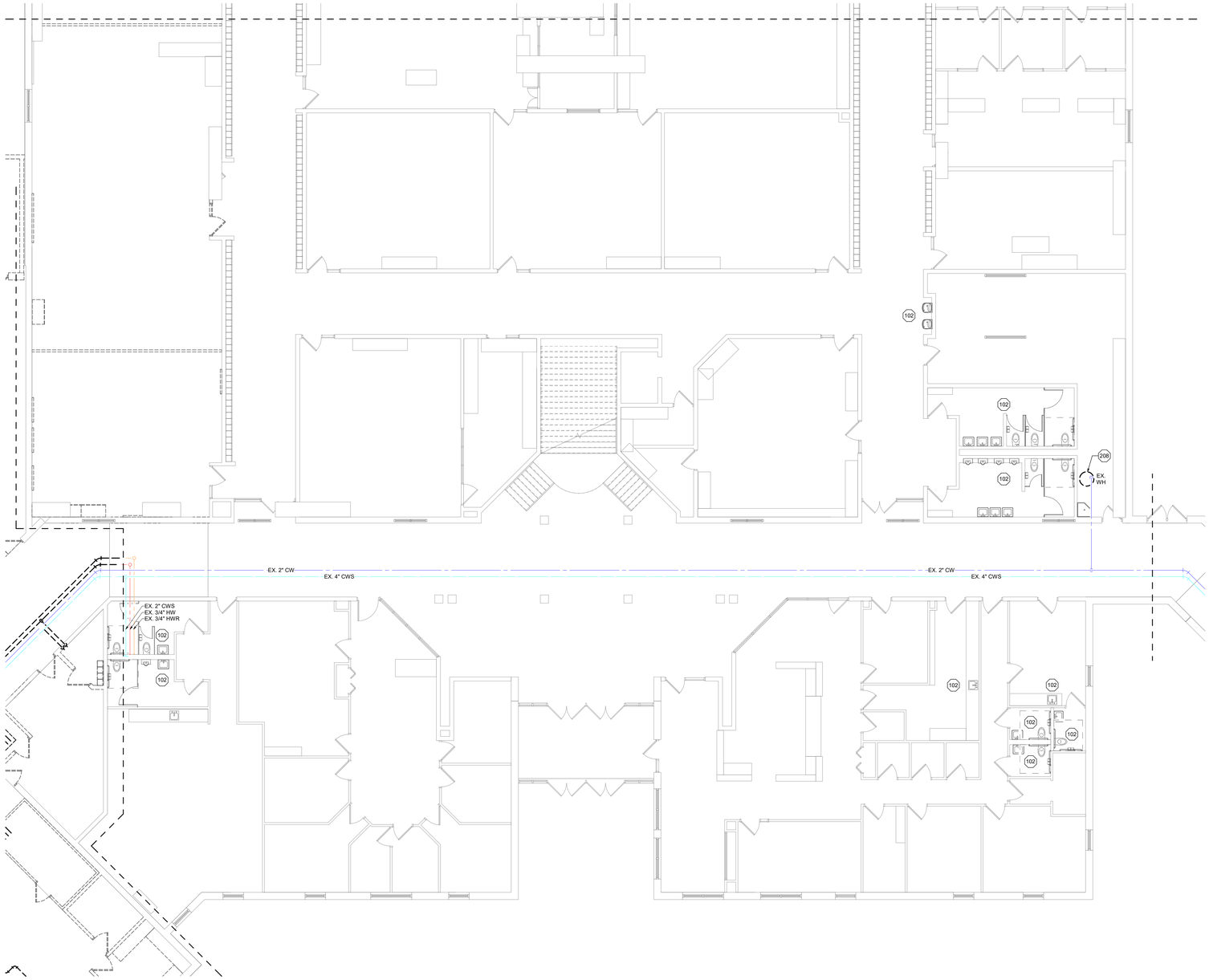
SHEET KEYNOTES

102	EXISTING PLUMBING FIXTURE / EQUIPMENT TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. ENSURE PROPER OPERATION OF FIXTURE / EQUIPMENT BEFORE COMPLETION OF PROJECT.
208	EXISTING WATER HEATER TO BE REMOVED. CAP EXISTING HOT WATER AND HOT WATER RETURN PIPING FOR FURTURE CONNECTION FROM WATER HEATERS IN UNIT B MEZZANINE. REMOVE EXISTING COLD WATER TO WATER HEATER WHILE MAINTAINING COLD WATER FEED TO UNIT C.



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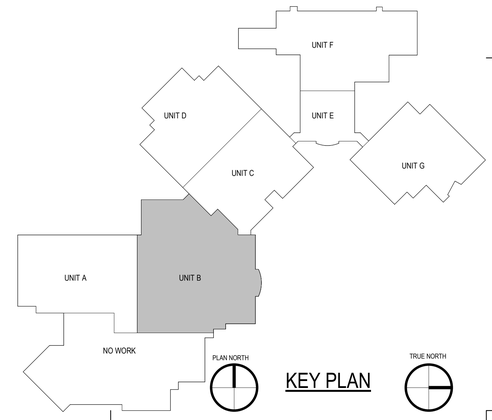

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Milwaukee, Wisconsin 53204
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SHEET KEYNOTES

13	ROUTE PIPING IN FURRING WALL.
16	
101	REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURE / EQUIPMENT. PLUG / CAP EXISTING PIPING BELOW / BEHIND / ABOVE SURFACE OF NEW FINISHED FLOOR / WALL / CEILING. THE EXISTING PIPING SHALL BE CAPPED BACK TO ITS ACTIVE MAIN OR BRANCH PIPING.
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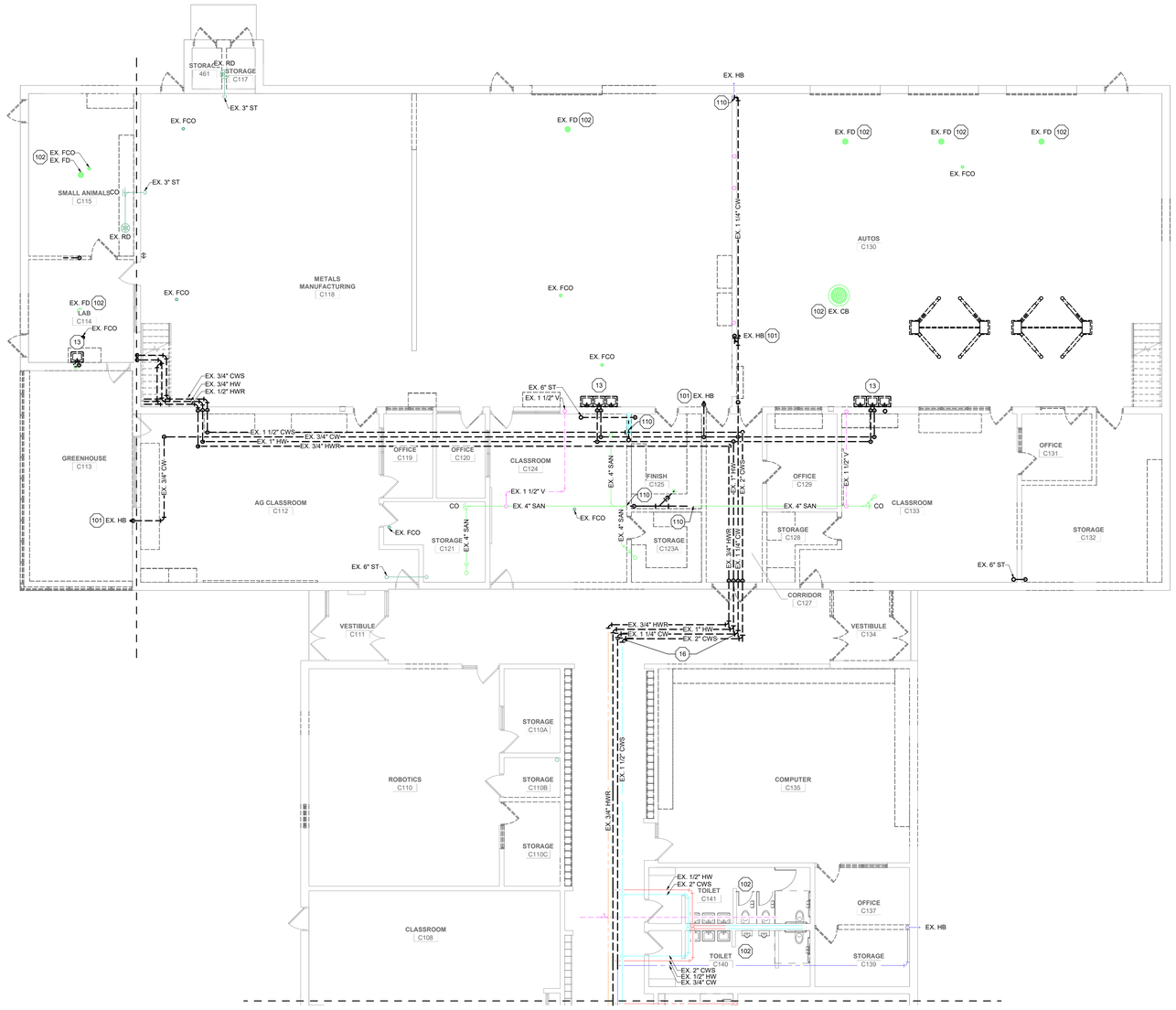
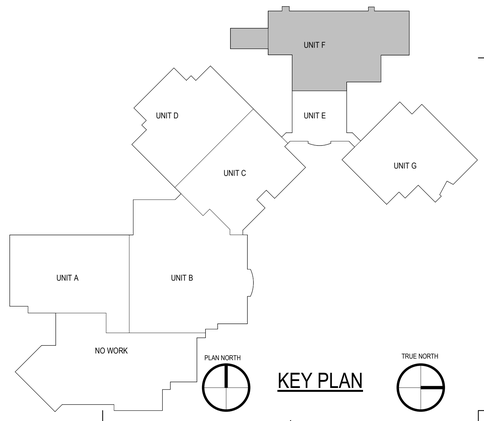
110	REMOVE AND DISPOSE OF EXISTING PIPING BACK TO THIS LOCATION AND TEMPORARILY CAP FOR REUSE DURING NEW CONSTRUCTION PHASE.



1 / P0.1F — FIRST FLOOR DEMO PLAN - UNIT F

Scale: 1/8" = 1'-0"



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UNIT F - FIRST FLOOR DEMO PLAN

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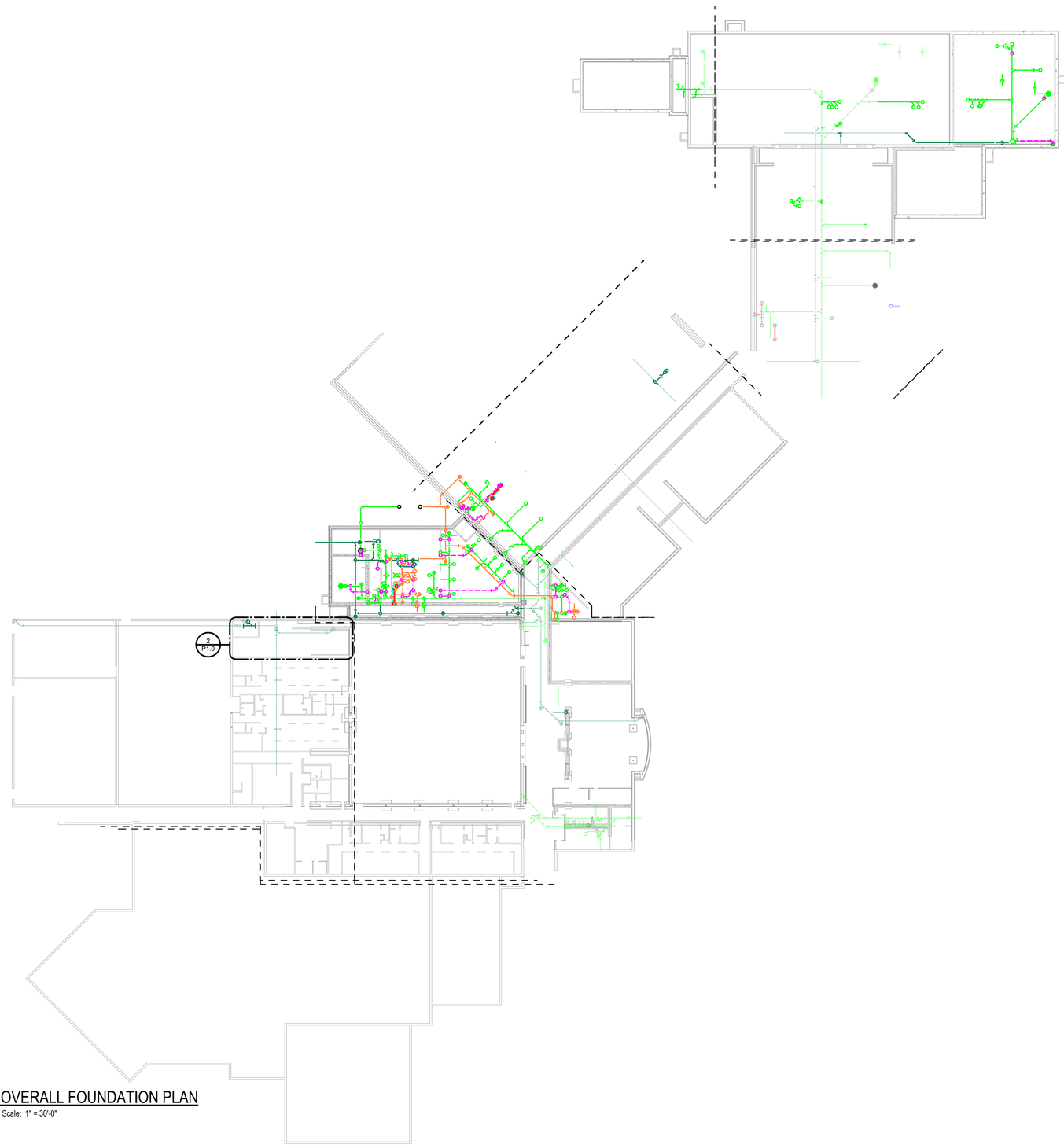
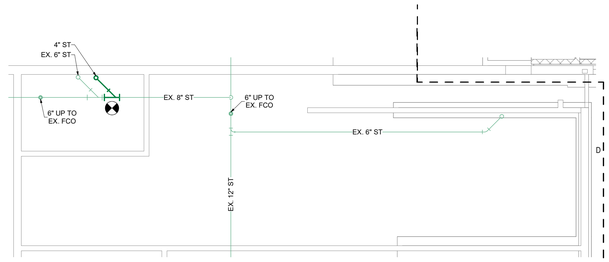
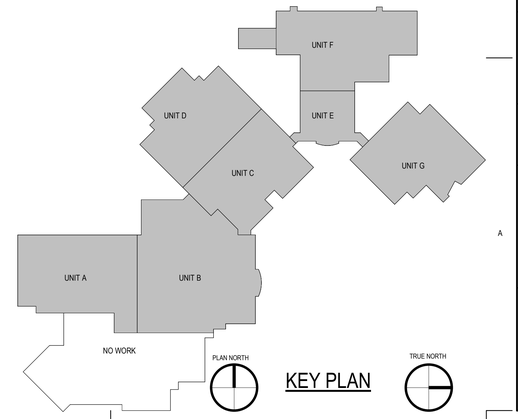


1 P1.0 OVERALL FOUNDATION PLAN
Scale: 1" = 30'-0"



2 P1.0 FIRST FLOOR - UNIT A - ENLARGED VIEW
Scale: 1/8" = 1'-0"



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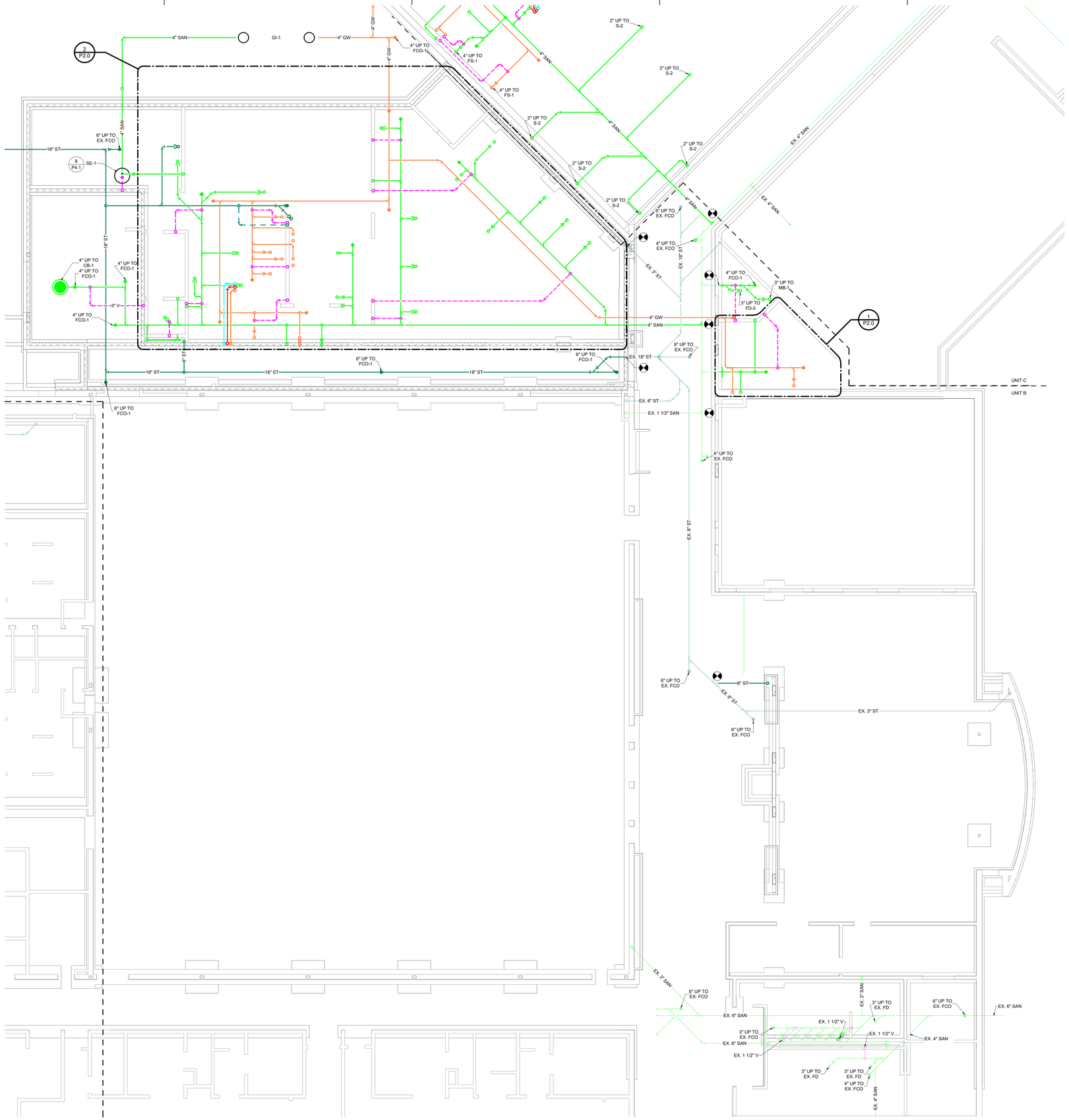
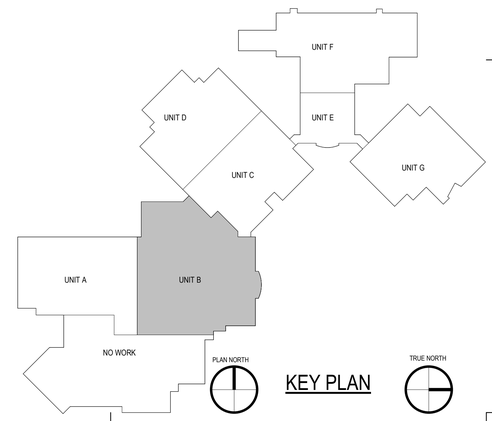


1 P1.0B FOUNDATION PLAN - UNIT B

Scale: 1/8" = 1'-0"

SHEET KEYNOTES



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UNIT B - FOUNDATION PLAN

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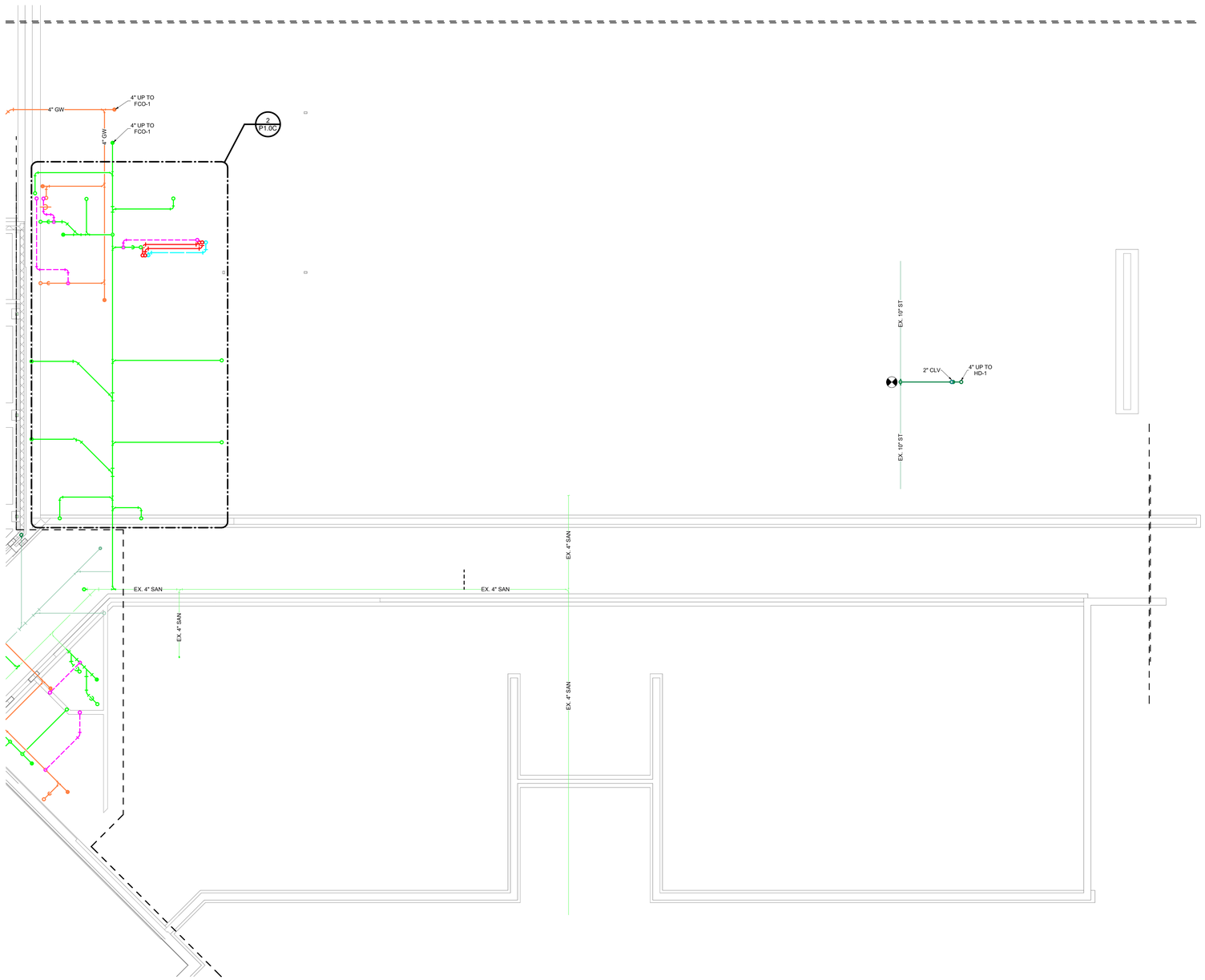
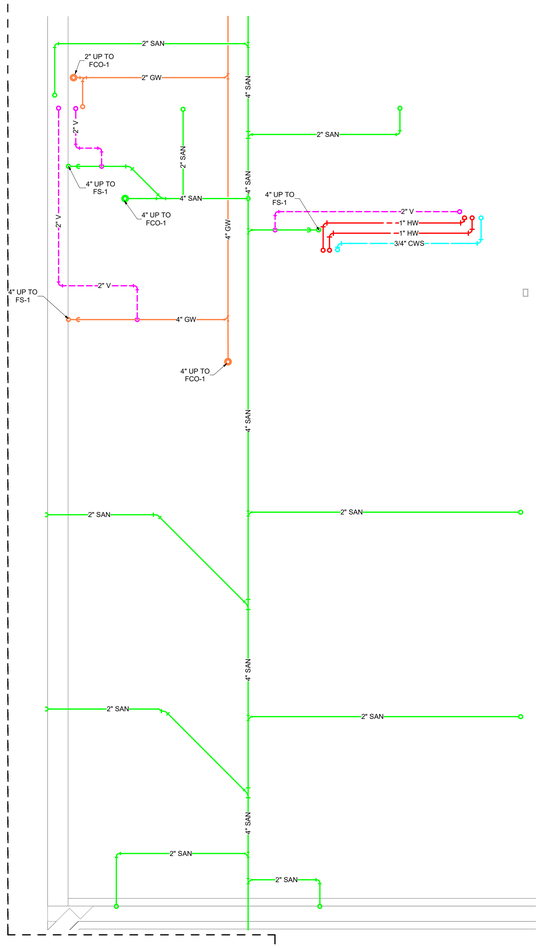
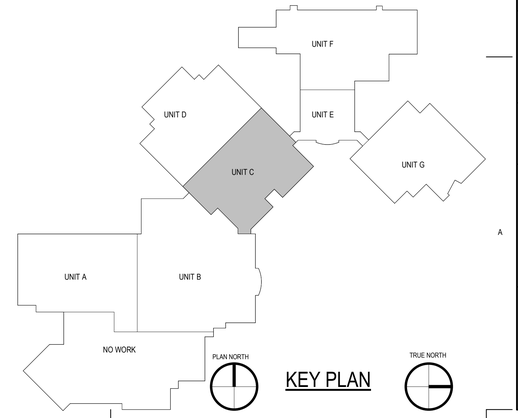


1 P1.0C FOUNDATION PLAN - UNIT C
Scale: 1/8" = 1'-0"



2 P1.0C FOUNDATION ENLARGED VIEW - FCS LAB
Scale: 1/4" = 1'-0"



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Milwaukee, Wisconsin 53204
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UNIT C - FOUNDATION PLAN

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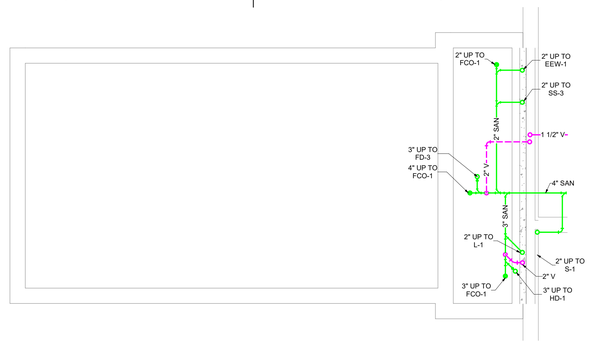
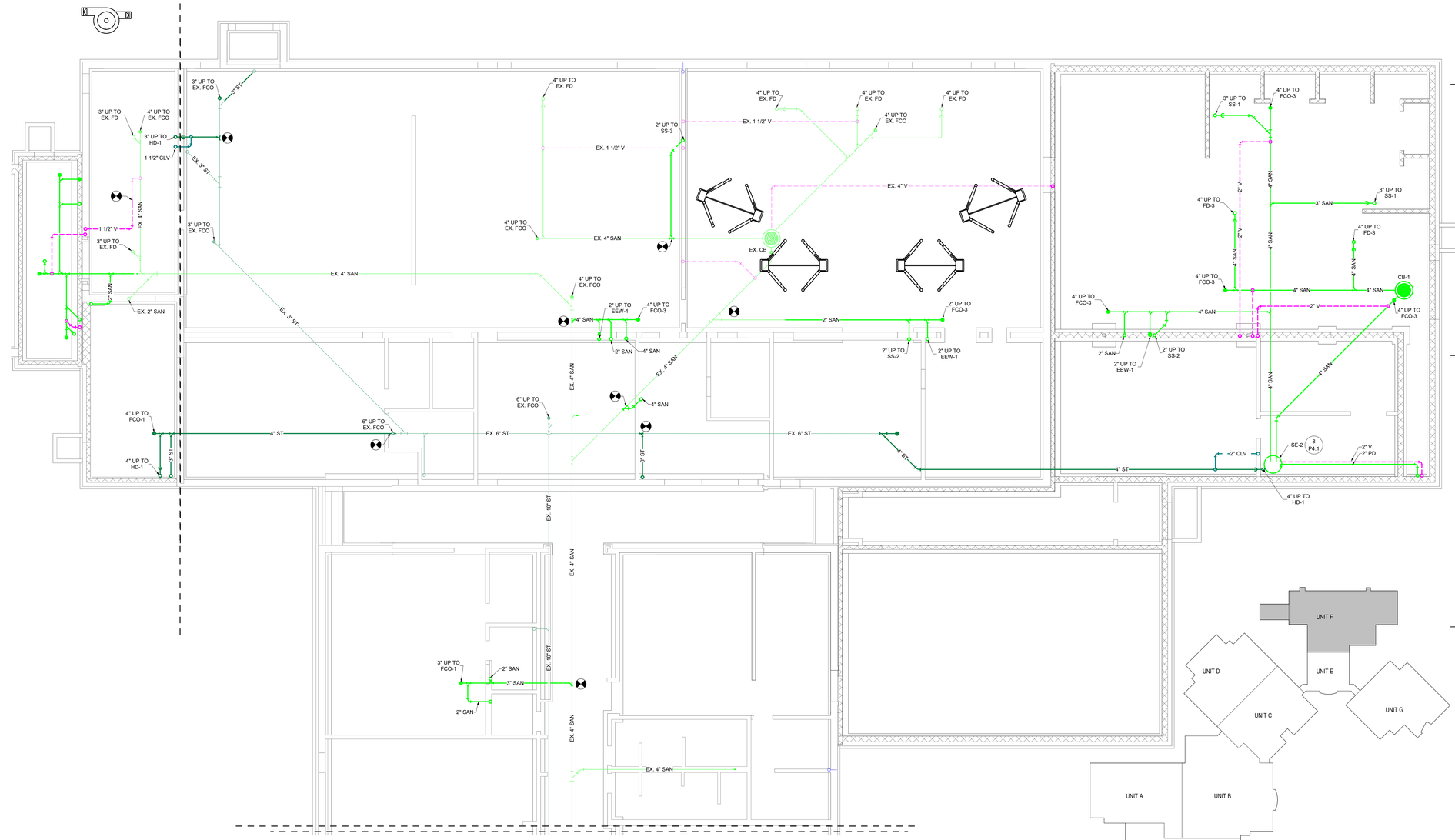


2 P1.0F FIRST FLOOR - UNIT F - GREENHOUSE FOUNDATION

Scale: 1/8" = 1'-0"



1 P1.0F FOUNDATION PLAN - UNIT F

Scale: 1/8" = 1'-0"

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UNIT F - FOUNDATION PLAN

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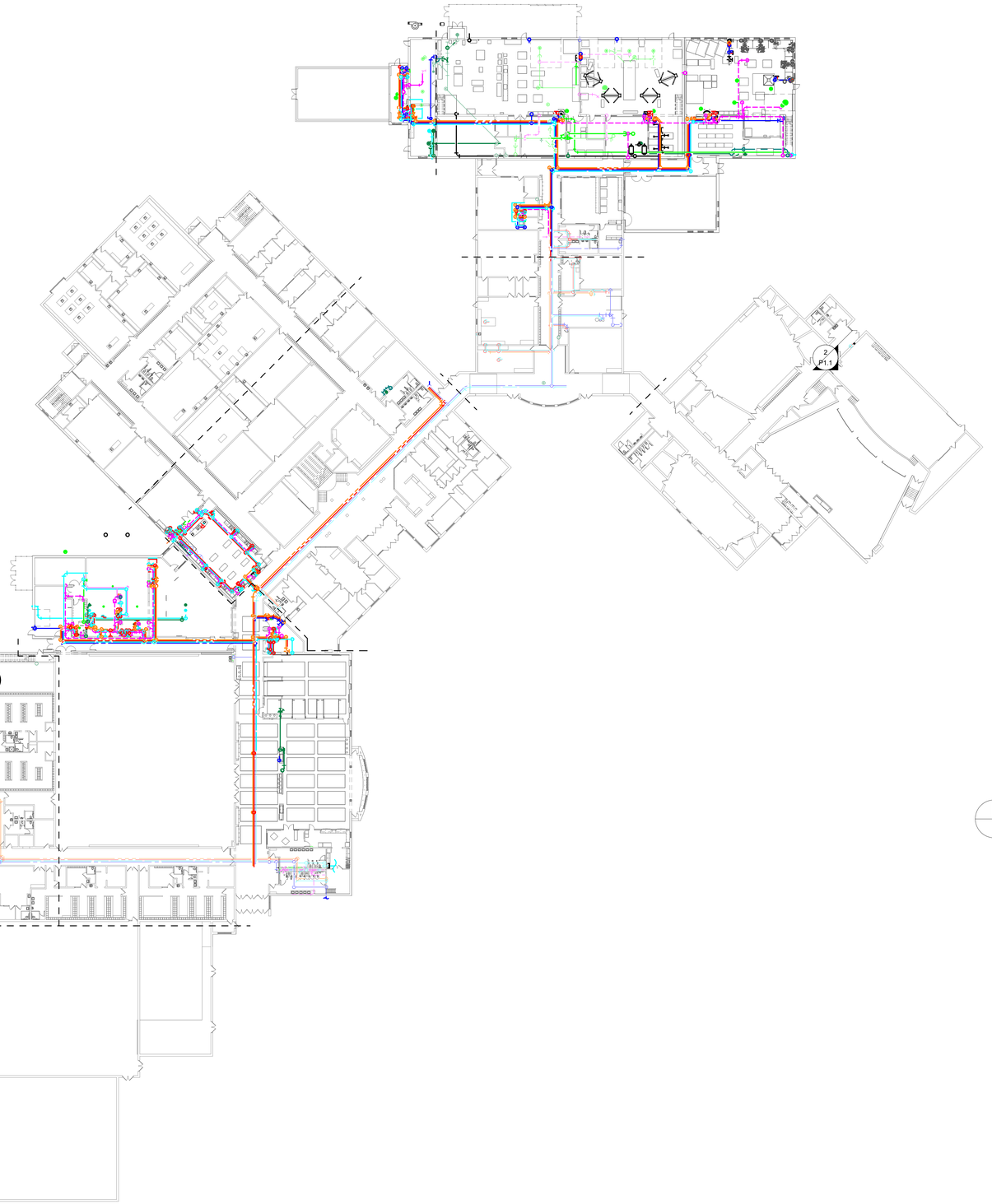
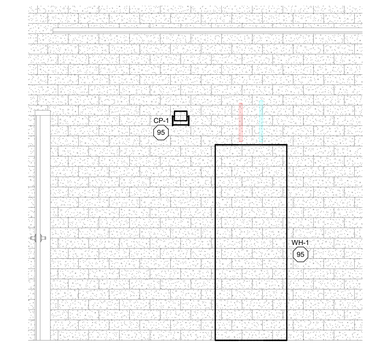
SHEET KEYNOTES

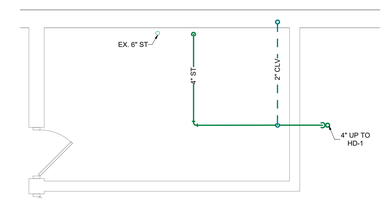
95	CONNECT NEW WATER HEATER AND CIRCULATING PUMP INTO EXISTING PIPING.



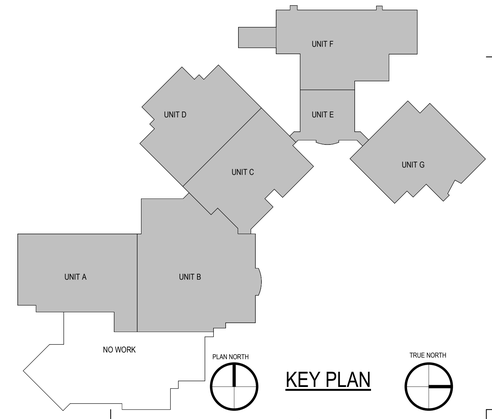
1 P1.1 FIRST FLOOR PLAN - OVERALL
Scale: 1" = 30'-0"



2 P1.1 NEW WATER HEATER ELEVATION
Scale: Not To Scale



3 P1.1 FIRST FLOOR PLAN - UNIT A - ENLARGED PLAN
Scale: 1/4" = 1'-0"



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Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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www.brayarch.com

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OVERALL FIRST FLOOR PLAN

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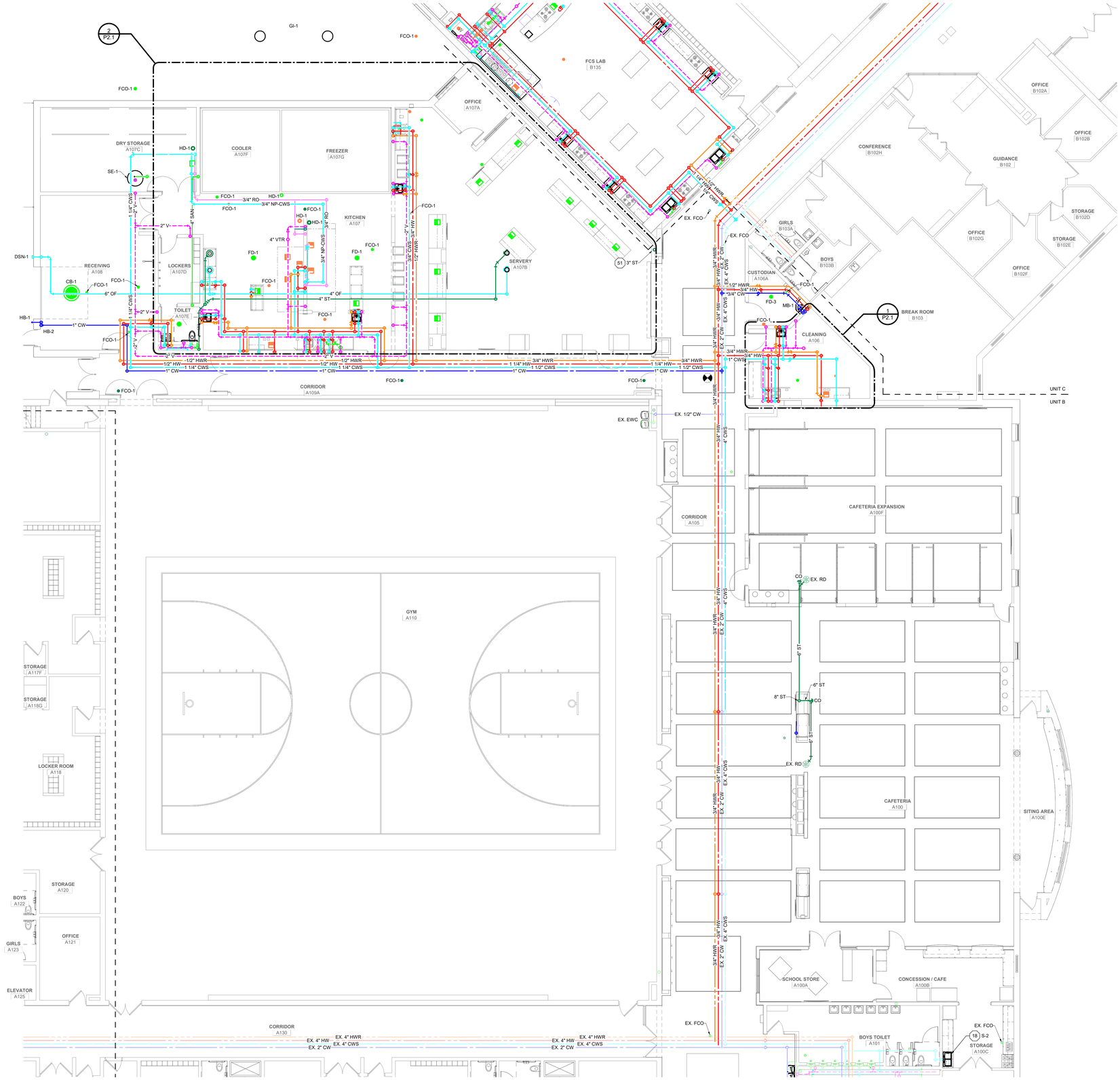
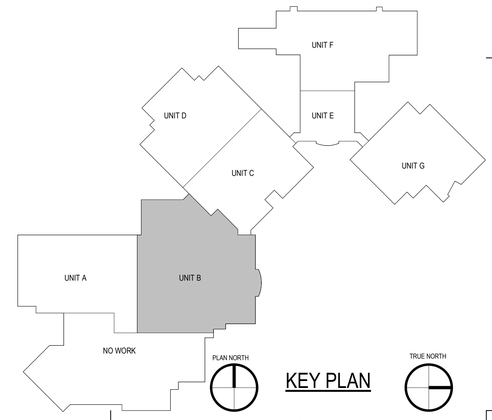
SHEET KEYNOTES

18	CONNECT NEW / EXISTING PLUMBING FIXTURE / EQUIPMENT AND ASSOCIATED TRIM TO EXISTING WATER AND WASTE SUPPLY PIPING. MODIFY EXISTING PIPING AS REQUIRED PER NEW ROUGH-IN INSTALLATION REQUIREMENTS.
51	ROUTE NEW STORM PIPING DOWN IN NEW WALL. CONNECT TO EXISTING STORM PIPING BELOW GRADE.



1 P1.1B FIRST FLOOR - UNIT B
Scale: 1/8" = 1'-0"



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UNIT B - FIRST FLOOR PLAN

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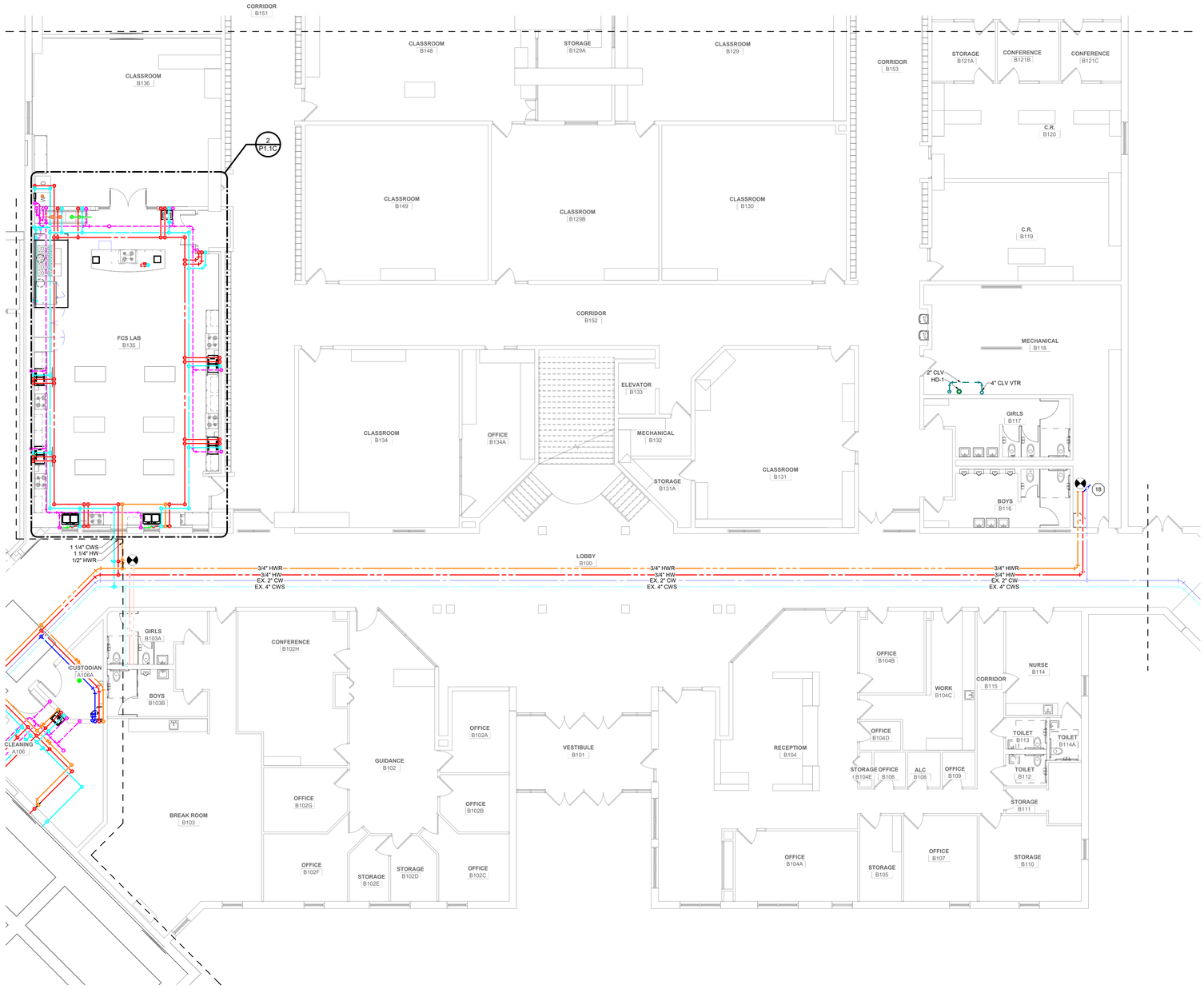
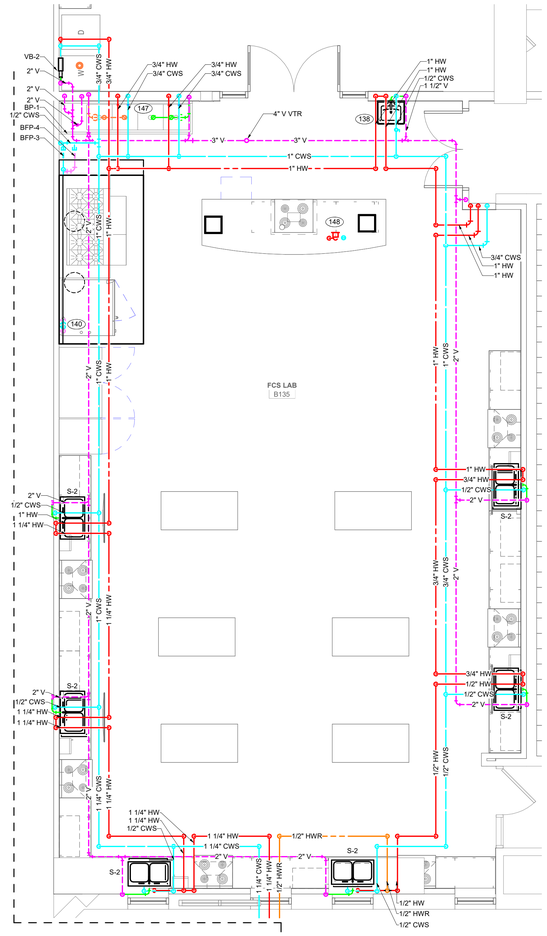
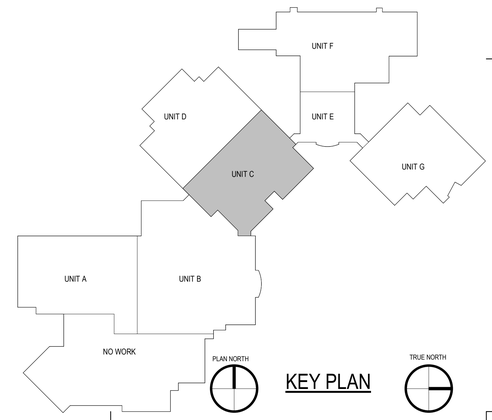
18	CONNECT NEW / EXISTING PLUMBING FIXTURE / EQUIPMENT AND ASSOCIATED TRIM TO EXISTING WATER AND WASTE SUPPLY PIPING. MODIFY EXISTING PIPING AS REQUIRED PER NEW ROUGH-IN INSTALLATION REQUIREMENTS.



1 P1.1C FIRST FLOOR PLAN- UNIT C
Scale: 1/8" = 1'-0"



2 P1.1C FIRST FLOOR ENLARGED PLAN - FCS LAB
Scale: 1/4" = 1'-0"



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UNIT C - FIRST FLOOR PLAN

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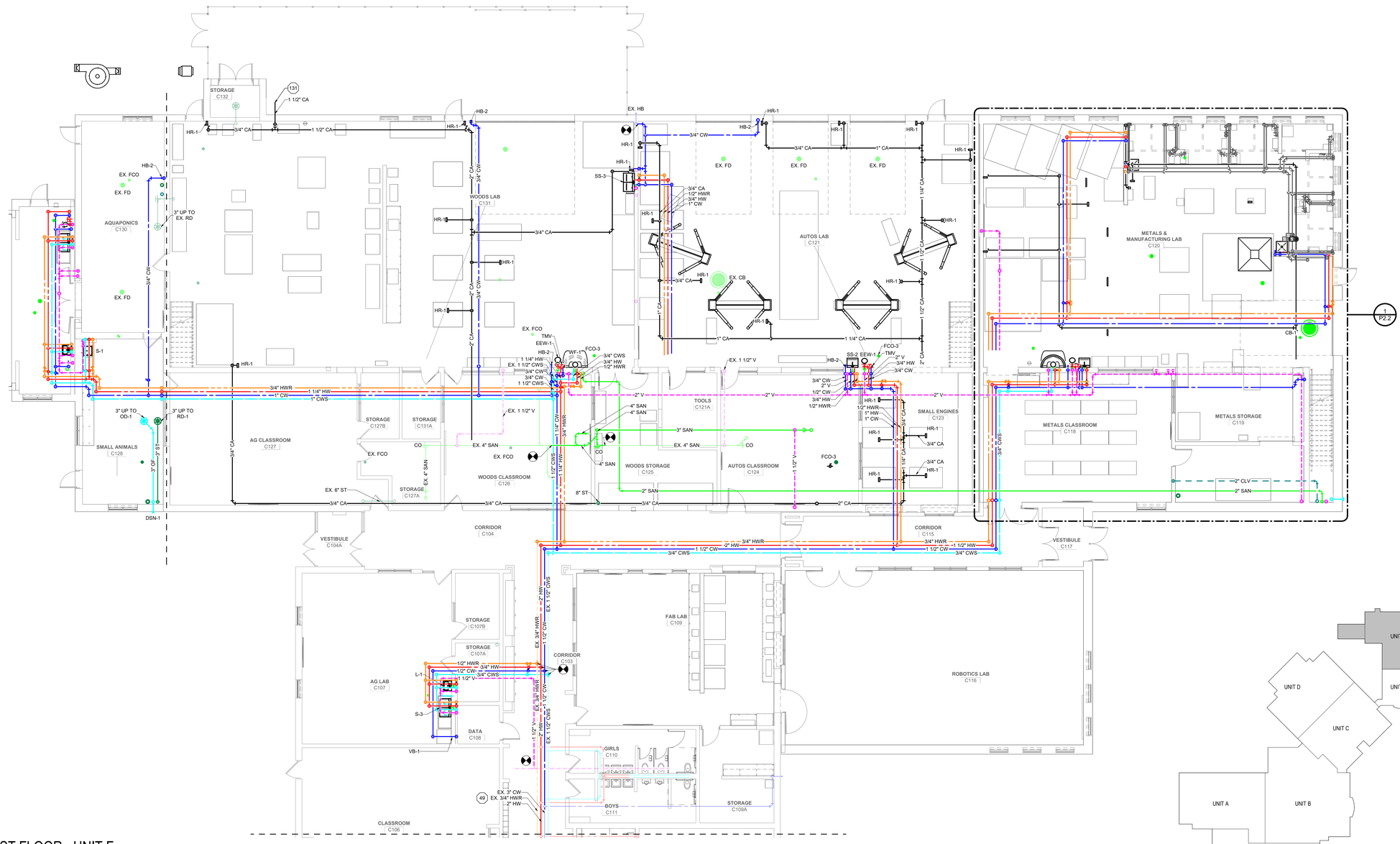
SHEET KEYNOTES

49	ROUTE NEW 2 INCH HW AND 1 1/2 INCH CW PIPING ALL THE WAY BACK TO UNIT E WATER SERVICE AND WATER HEATERS
131	EXTERIOR DUST COLLECTOR - EXTEND AND CONNECT COMPRESSED AIR PIPING FOR THE EXTERIOR DUST COLLECTOR, PROVIDED BY THE HVAC CONTRACTOR. ROUTE COMPRESSED AIR PIPING THROUGH INTERIOR AIR FILTER PRIOR TO THE PIPE EXITING THE BUILDING. AIR FILTER SHALL BE FURNISHED BY THE HVAC CONTRACTOR AND INSTALLED BY THE PLUMBING CONTRACTOR. PROVIDE GALVANIZED PIPE AND FITTINGS WITH HEAT TAPE OUTSIDE OF THE BUILDING. FIELD VERIFY OUTLET PRESSURE SETTING, CONNECTION TYPE, SIZE, AND LOCATION WITH HVAC CONTRACTOR PRIOR TO INSTALLATION.



2 P1.1F FIRST FLOOR - UNIT F - GREENHOUSE
Scale: 1/8" = 1'-0"



1 P1.1F FIRST FLOOR - UNIT F
Scale: 1/8" = 1'-0"

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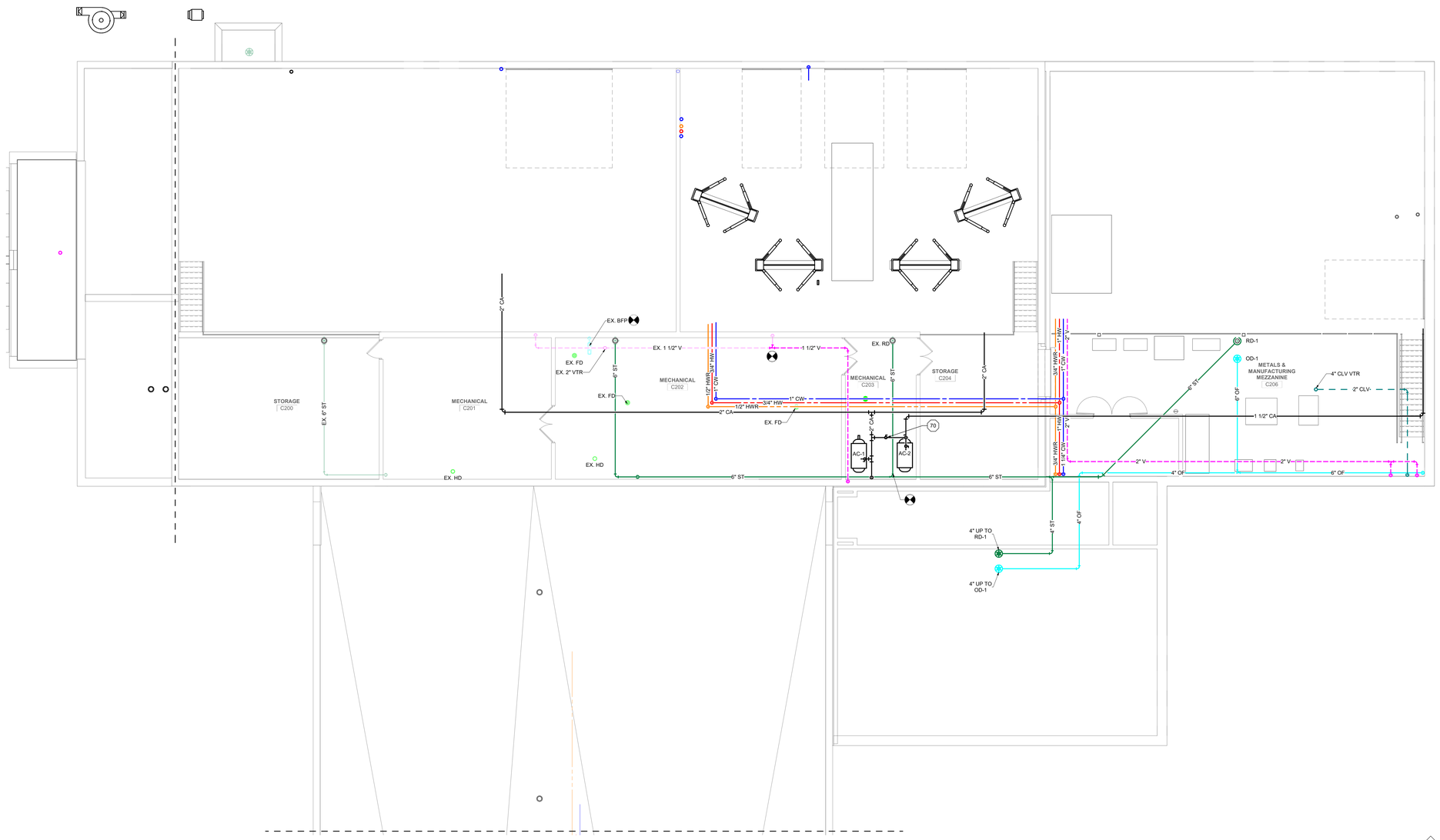
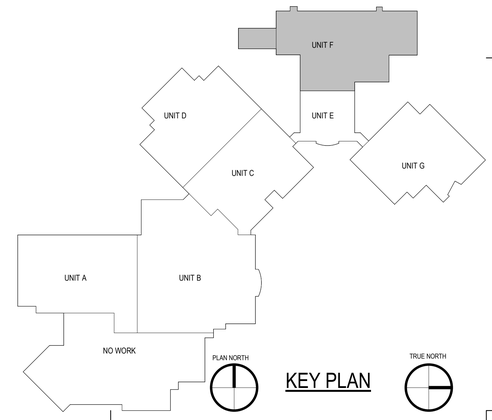
SHEET KEYNOTES

70	PROVIDE VALVED BYPASS BETWEEN AIR COMPRESSORS. PROVIDE ISOLATION VALVES FOR EACH COMPRESSOR TO ALLOW FOR ONE COMPRESSOR TO FEED BOTH SYSTEMS DURING MAINTENANCE.



1 P1.2F TECH ED - MEZZANINE
Scale: 1/8" = 1'-0"



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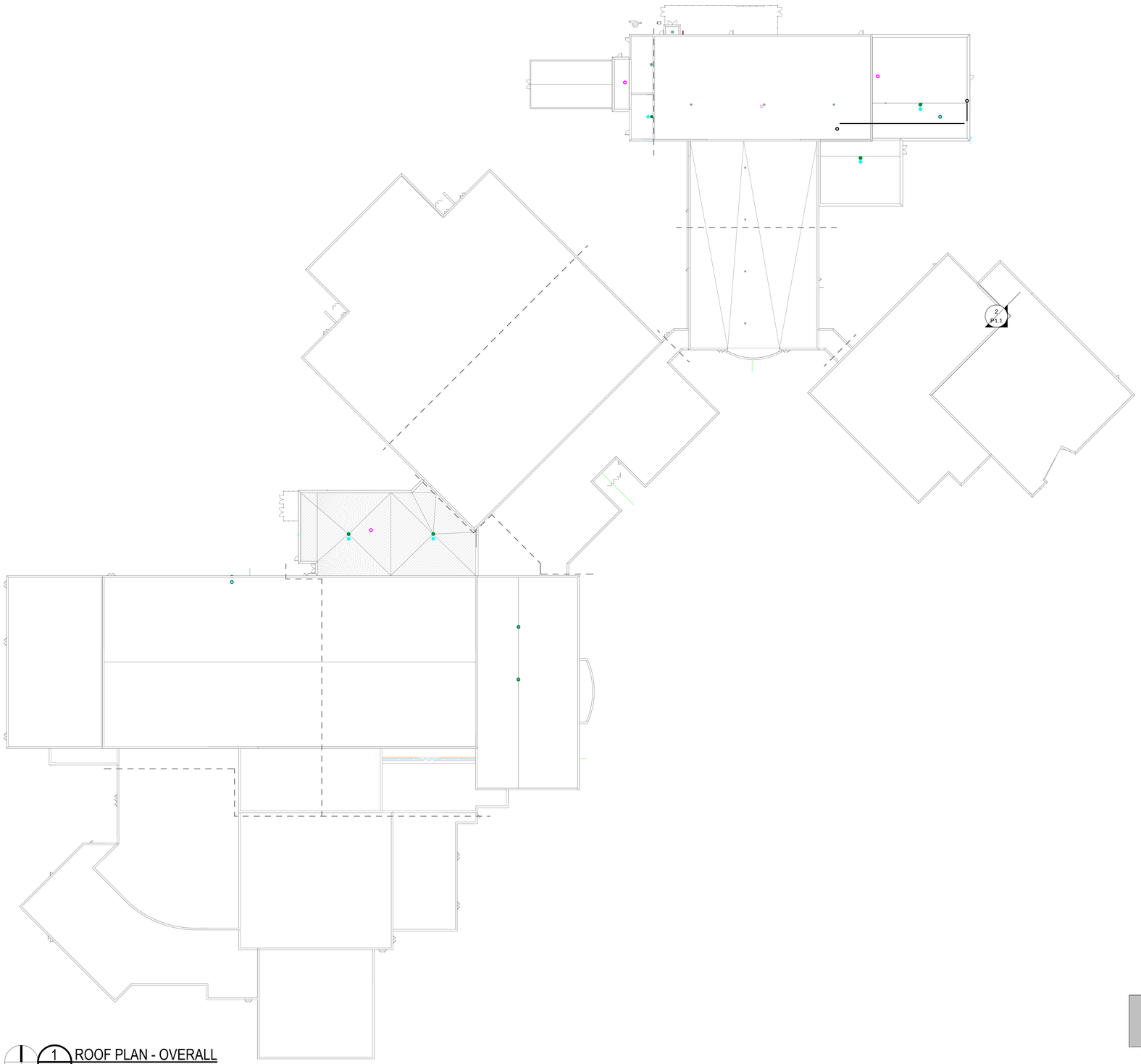
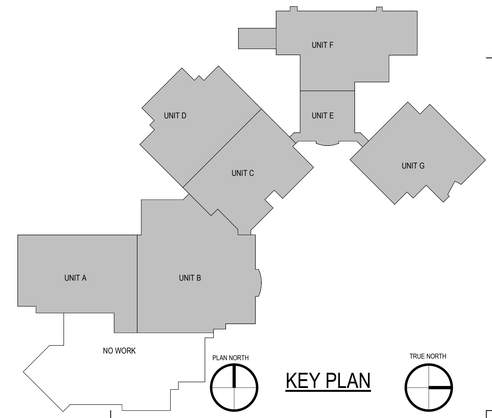


1 P1.3 ROOF PLAN - OVERALL
Scale: 1" = 30'-0"



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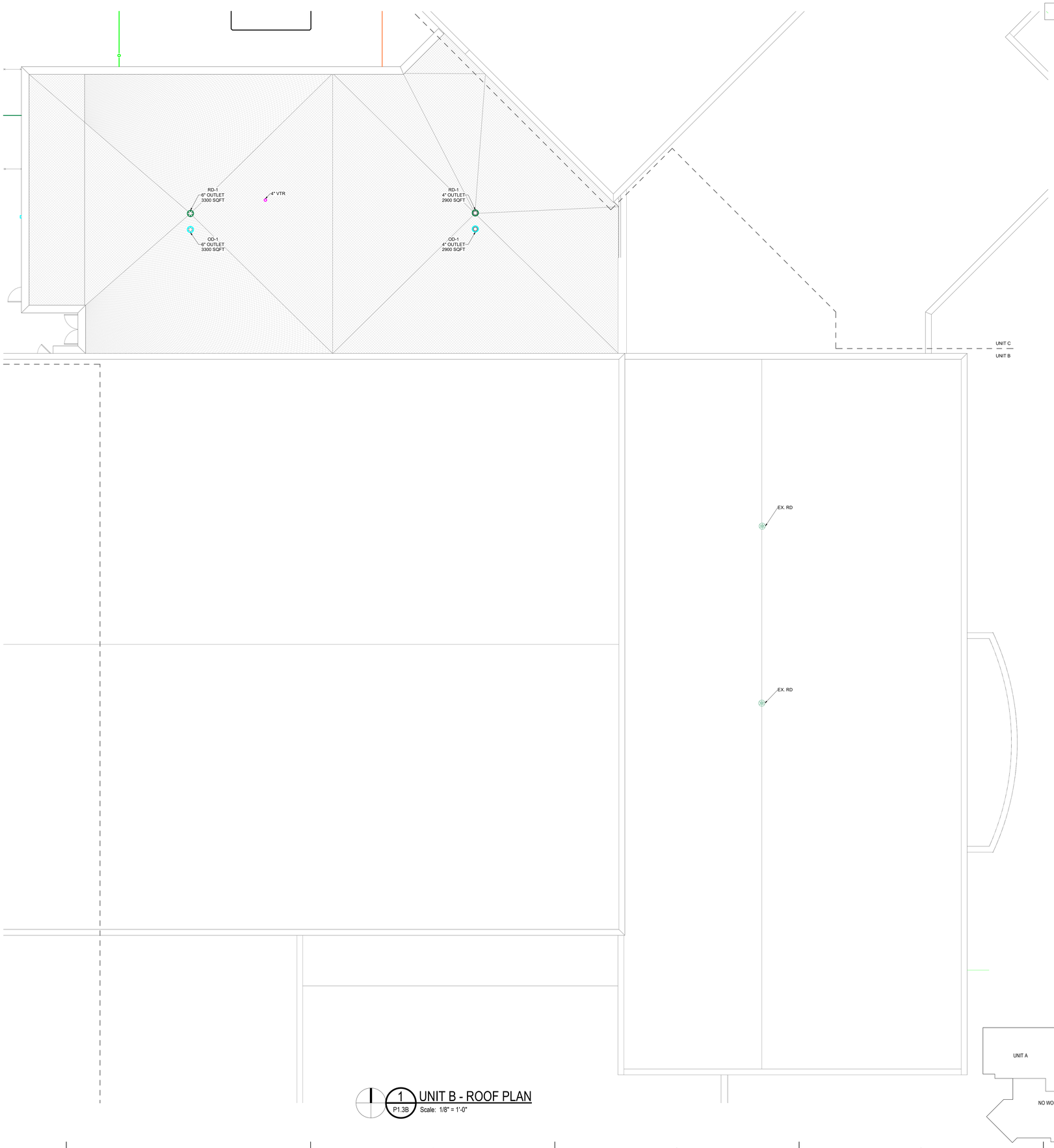
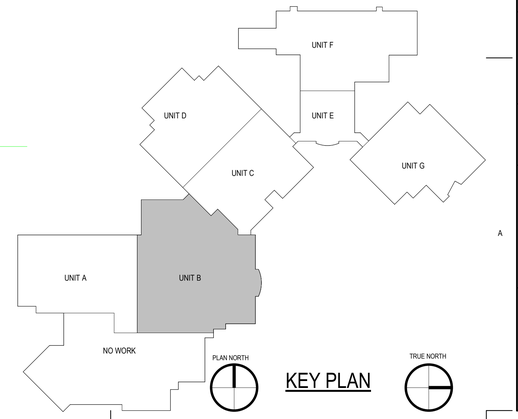


1 P1.3B UNIT B - ROOF PLAN
Scale: 1/8" = 1'-0"



KEY PLAN

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UNIT B - ROOF PLAN

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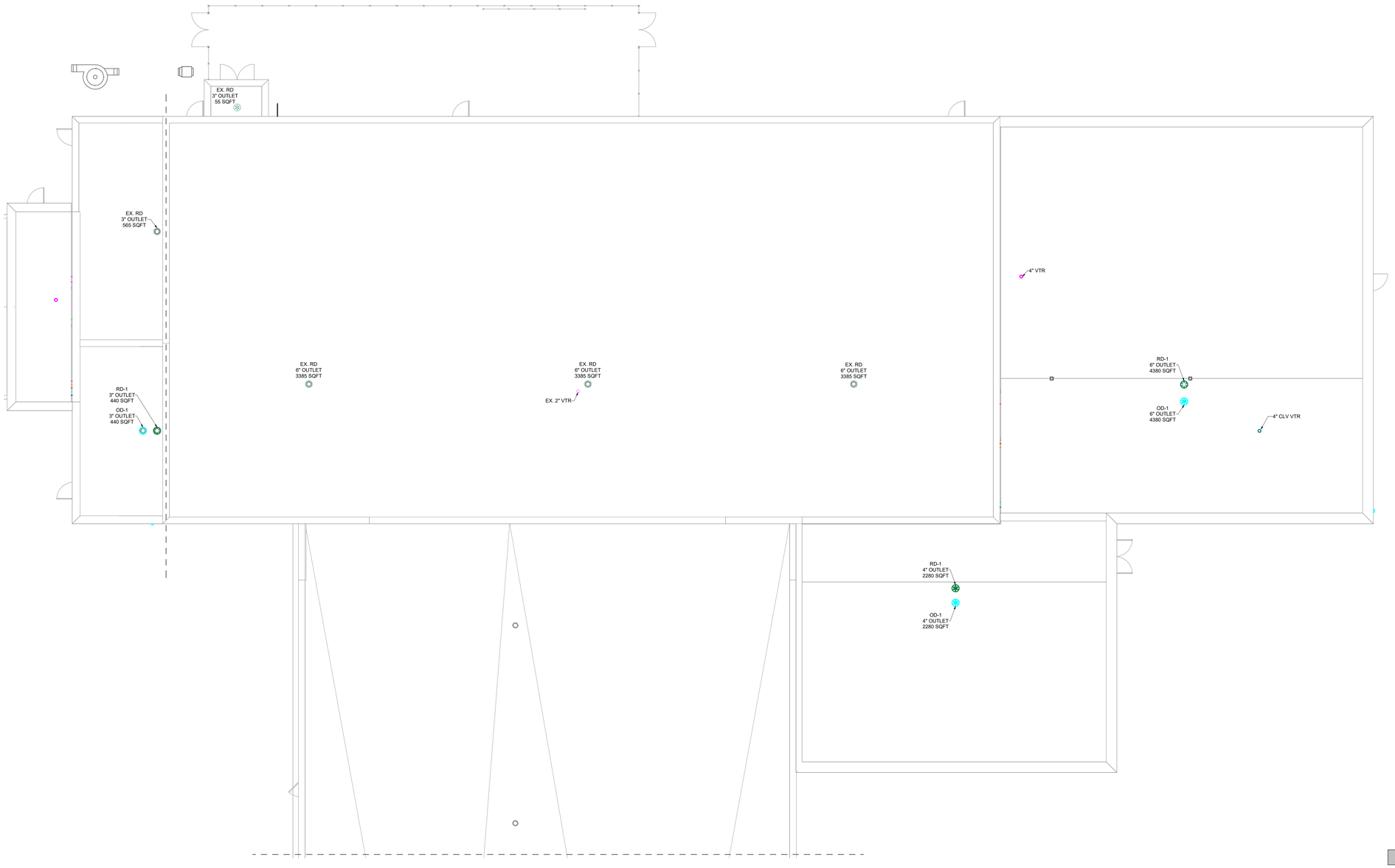
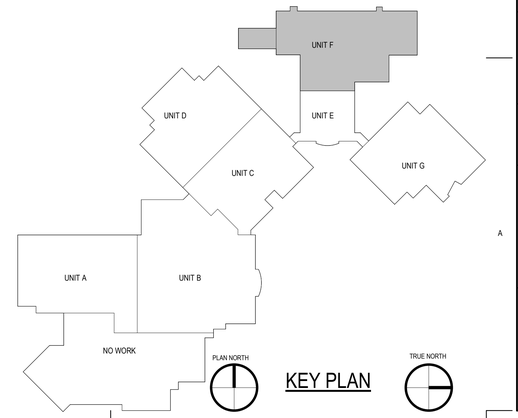


1 P1.3F **UNIT F - ROOF PLAN**
Scale: 1/8" = 1'-0"



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UNIT F - ROOF PLAN

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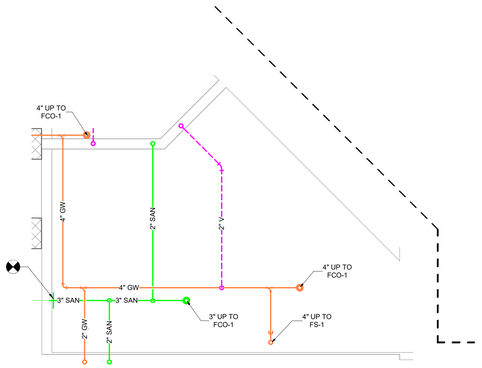
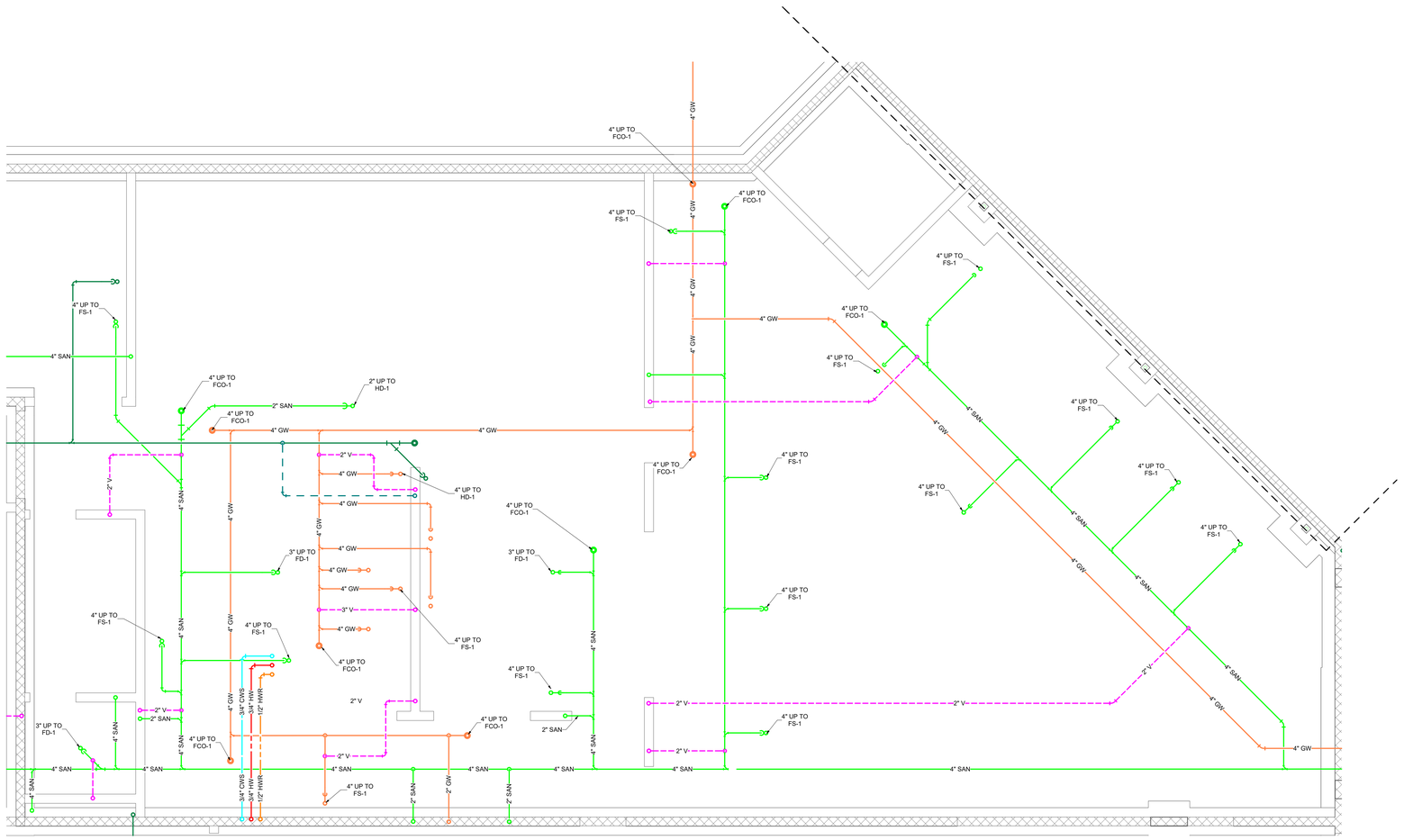
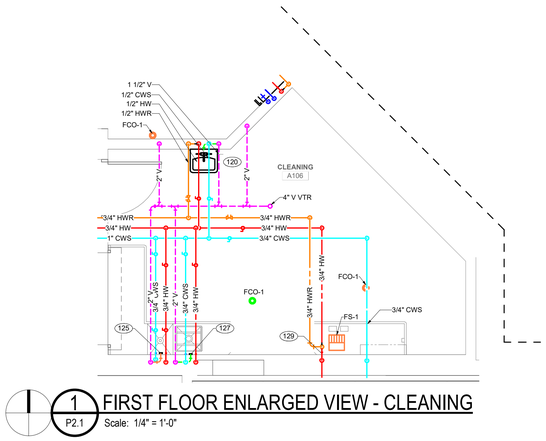


1 P2.0 **FOUNDATION ENLARGED VIEW - CLEANING**
Scale: 1/4" = 1'-0"

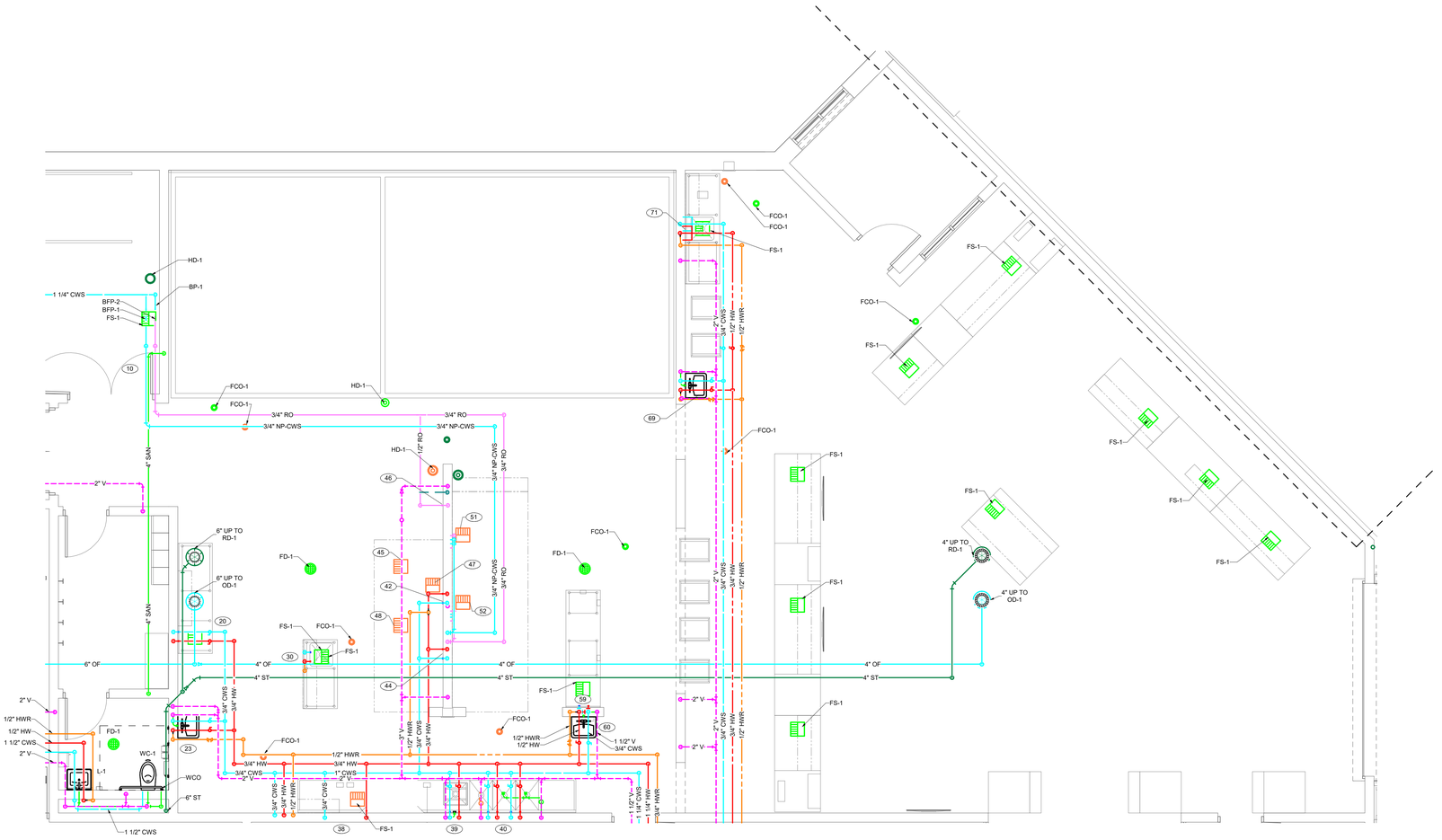

4" UP TO FCO-1
4" GW
4" UP TO FS-1
4" UP TO FCO-1
4" GW
4" GW
4" UP TO FS-1
4" UP TO FCO-1
4" GW
4" SAN
4" UP TO FS-1
4" UP TO FS-1
4" SAN
4" GW
4" UP TO FS-1
4" UP TO FS-1
4" SAN
4" GW
4" SAN
4" UP TO FS-1
4" UP TO FS-1
4" SAN
4" GW
4" UP TO FS-1
4" SAN
4" UP TO FCO-1
2" UP TO HD-1
2" SAN
4" UP TO FCO-1
4" GW
4" GW
2" V
4" GW
4" GW
4" UP TO HD-1
4" GW
4" GW
4" UP TO FCO-1
3" UP TO FD-1
4" GW
4" GW
4" GW
3" V
4" GW
4" UP TO FS-1
4" UP TO FCO-1
3" UP TO FD-1
4" UP TO FS-1
4" SAN
4" GW
4" UP TO FS-1
4" SAN
4" GW
4" UP TO FS-1
2" V
2" SAN
4" UP TO FCO-1
2" V
4" SAN
4" SAN
4" SAN

SHEET KEYNOTES



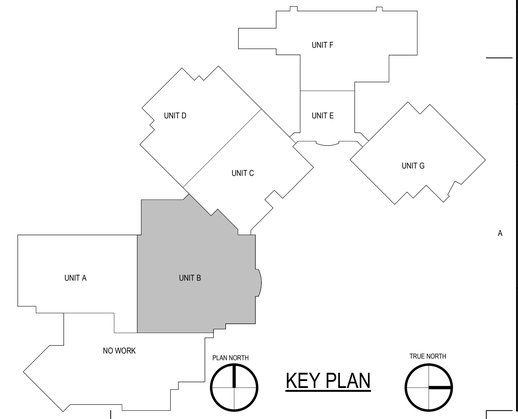
1 P2.1 FIRST FLOOR ENLARGED VIEW - CLEANING

Scale: 1/4" = 1'-0"



2 P2.1 FIRST FLOOR ENLARGED VIEW - KITCHEN

Scale: 1/4" = 1'-0"



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Milwaukee, Wisconsin 53204
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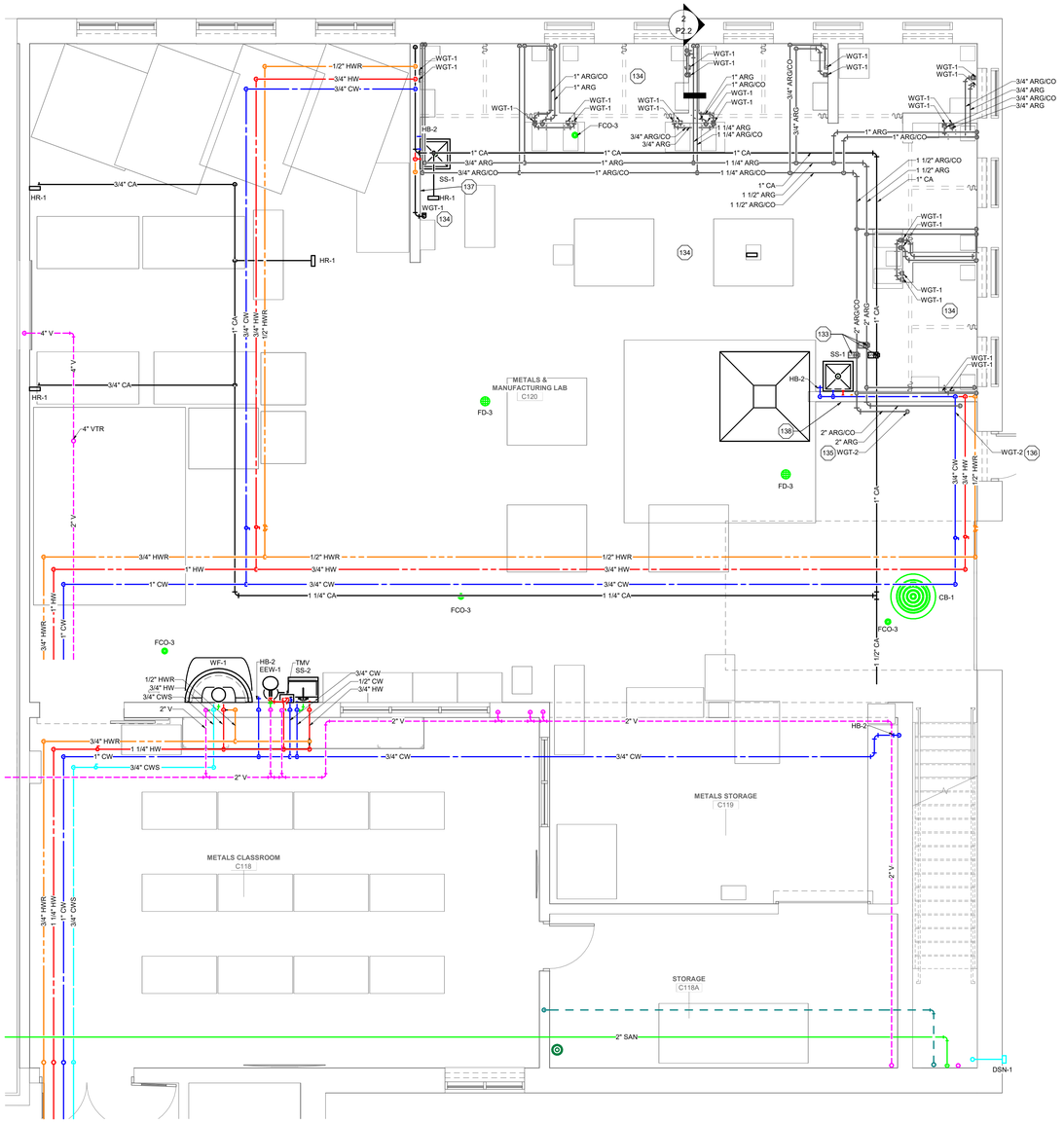

1 P2.2 FIRST FLOOR - UNIT F - ENLARGED PLAN
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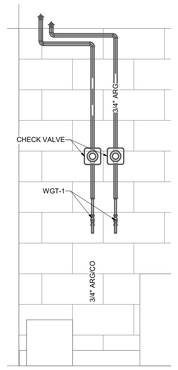
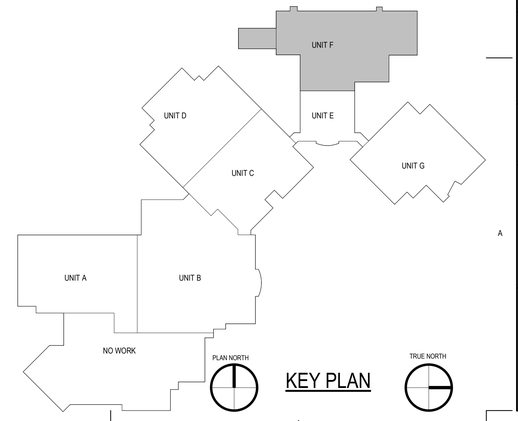


2 P2.2 WELDING BOOTH ELEVATION - TYP
Scale: 3/4" = 1'-0"

SHEET KEYNOTES

133	SOLENOID VALVE - PROVIDE WELDING GAS / COMPRESSED AIR SOLENOID VALVE FOR EMERGENCY SHUT-OFF. COORDINATE FINAL LOCATION, SIZE, AND TYPE WITH ELECTRICAL CONTRACTOR PRIOR TO INSTALLATION.
134	SHOP EQUIPMENT - FURNISHED BY THE OWNER AND INSTALLED BY THE GENERAL CONTRACTOR. FINAL PLUMBING CONNECTIONS SHALL BE BY THE PLUMBING CONTRACTOR. PIPING CONNECTIONS SHALL INCLUDE ANY COMPRESSED AIR / WELDING GASES / NATURAL GAS / NON-POTABLE WATER / SANITARY IN-DIRECT WASTE PIPING. FIELD VERIFY PRESSURE/FLOW REQUIREMENTS, CONNECTION TYPE, SIZE, AND CONNECTION LOCATION WITH SHOP EQUIPMENT SPECIFICATION SHEETS PRIOR TO INSTALLATION.
135	ARGON CYLINDERS - FURNISHED BY THE OWNER AND INSTALLED BY THE WELDING GAS CYLINDER SUPPLIER IN THIS LOCATION. WELDING GAS SUPPLIER TO ALSO SUPPLY CYLINDER MOUNTING AND SUPPLY MANIFOLD. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL PIPE CONNECTIONS TO THE WELDING GAS CYLINDER MANIFLD AND PIPING SYSTEM. PROVIDE WELDING GAS CYLINDER PRESSURE REGULATOR AS SHOWN.
136	ARGON/CO2 CYLINDERS - FURNISHED BY THE OWNER AND INSTALLED BY THE WELDING GAS CYLINDER SUPPLIER IN THIS LOCATION. WELDING GAS SUPPLIER TO ALSO SUPPLY CYLINDER MOUNTING AND SUPPLY MANIFOLD. THE PLUMBING CONTRACTOR SHALL MAKE ALL FINAL PIPE CONNECTIONS TO THE WELDING GAS CYLINDERS AND PIPING SYSTEM. PROVIDE WELDING GAS CYLINDER PRESSURE REGULATOR AS SHOWN.
137	OXYGEN CYLINDERS - FURNISHED BY THE OWNER AND INSTALLED BY THE WELDING GAS CYLINDER SUPPLIER IN THIS LOCATION. OXYGEN CYLINDERS TO BE STORED MINIMIMUM 20'-0" FROM ACETYLENE CYLINDERS.
138	ACETYLENE CYLINDERS - FURNISHED BY THE OWNER AND INSTALLED BY THE WELDING GAS CYLINDER SUPPLIER IN THIS LOCATION. ACETYLENE CYLINDERS TO BE STORED MINIMIMUM 20'-0" FROM OXYGEN CYLINDERS.



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
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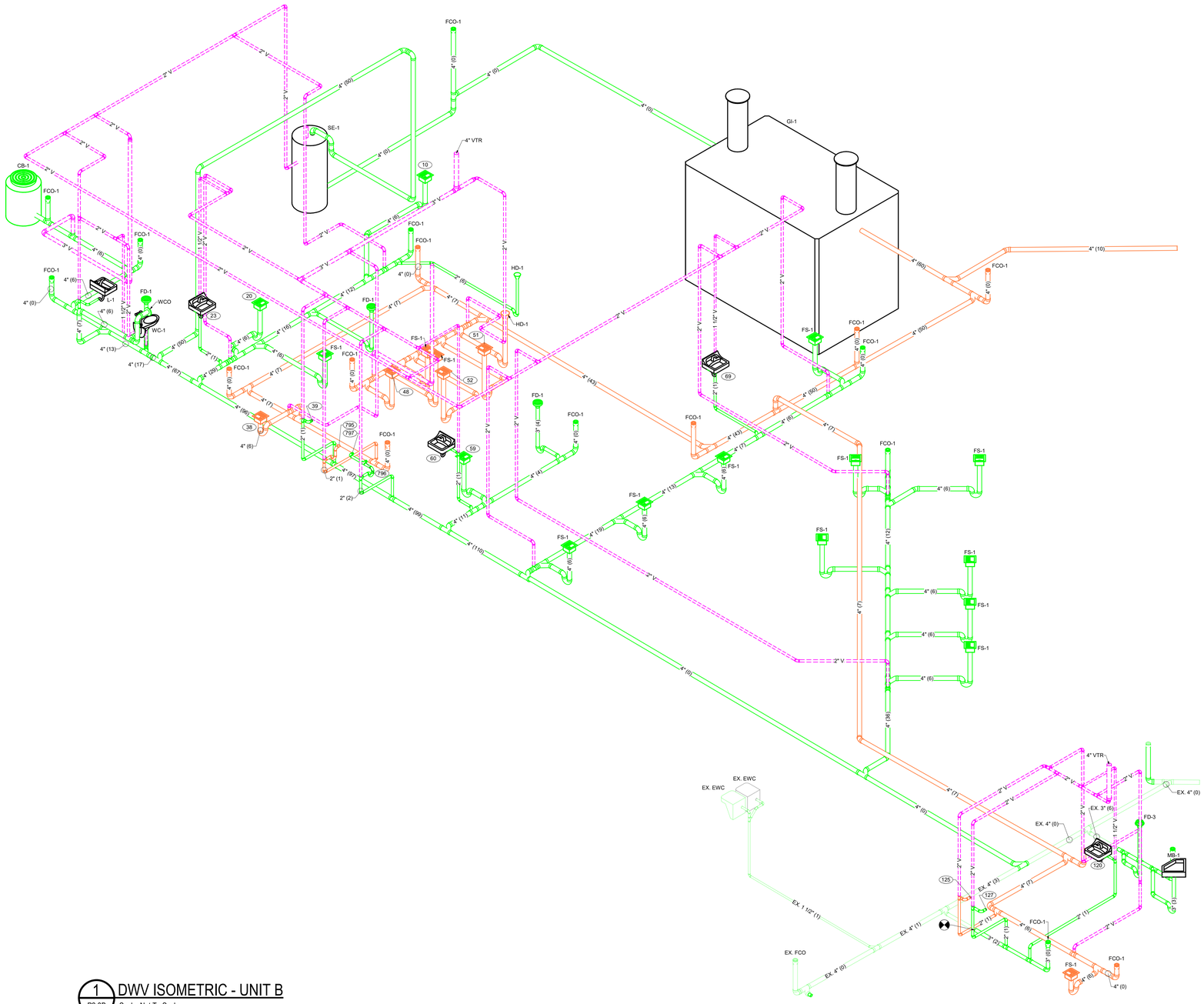
SANITARY ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING CONNECTION SCHEDULE ON THE GENERAL NOTES SHEET FOR DRAIN / WASTE BRANCH PIPE SIZE TO FIXTURE.

ALL VENT PIPING SERVING INDIVIDUAL WATER CLOSETS WITH CARRIERS SHALL BE 2" UNLESS OTHERWISE NOTED.

ALL VENT PIPING SERVING INDIVIDUAL FIXTURES, OTHER THAN WATER CLOSETS WITH CARRIERS, SHALL BE 1-1/2" UNLESS OTHERWISE NOTED.

SANITARY DRAIN AND VENT UNIT VALUES ARE SHOWN AS DRAINAGE FIXTURE UNITS.



1 P3.0B DWV ISOMETRIC - UNIT B
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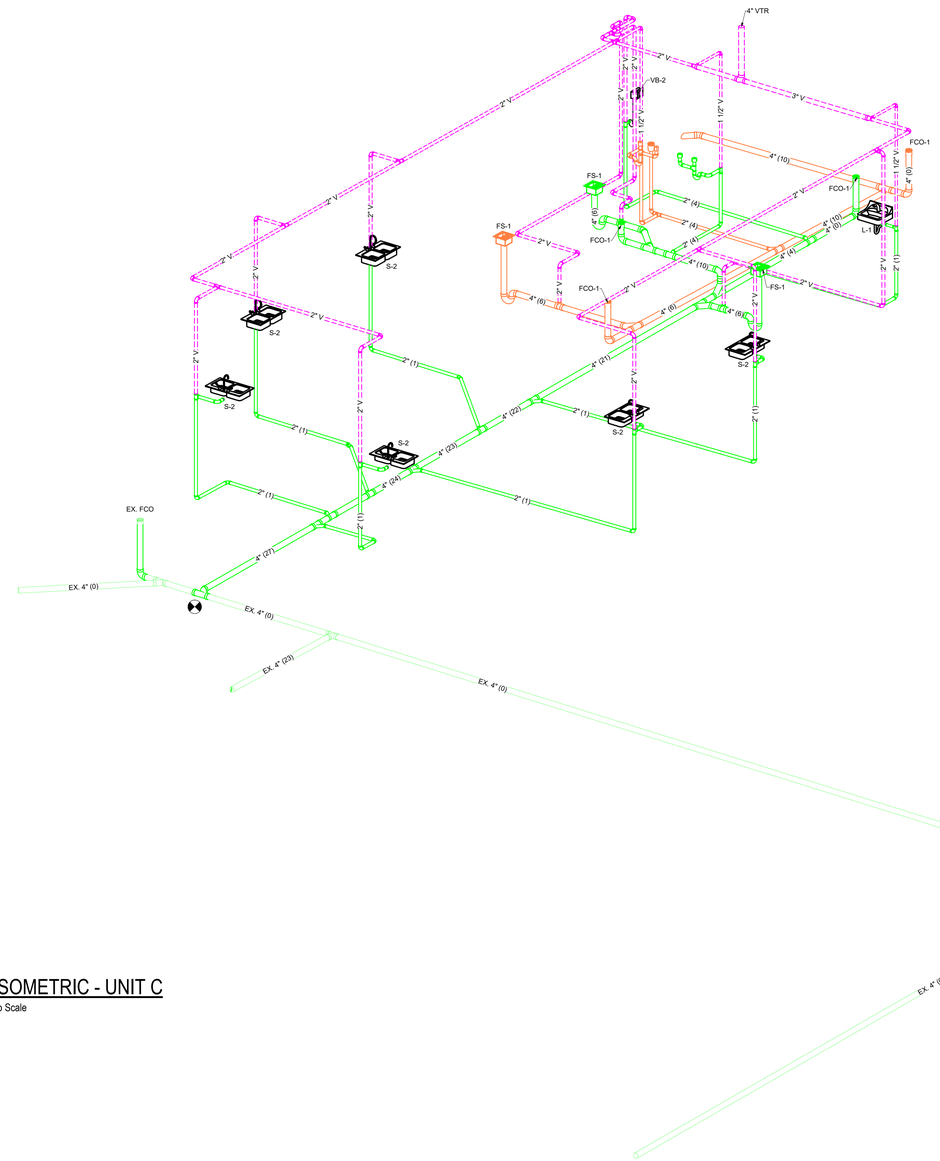
DOMESTIC WATER ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING CONNECTION SCHEDULE ON THE GENERAL NOTES SHEET FOR WATER BRANCH PIPE SIZE TO FIXTURE.

PROVIDE WATER HAMMER ARRESTORS ON ALL INDIVIDUAL FLUSH VALVES, OR BANK OF FLUSH VALVES, AND QUICK CLOSING VALVES.

HOT AND COLD WATER SUPPLY UNIT VALUES ARE SHOWN AS WATER FIXTURE UNITS.

HOT WATER RETURN UNIT VALUES ARE SHOWN AS GPM.



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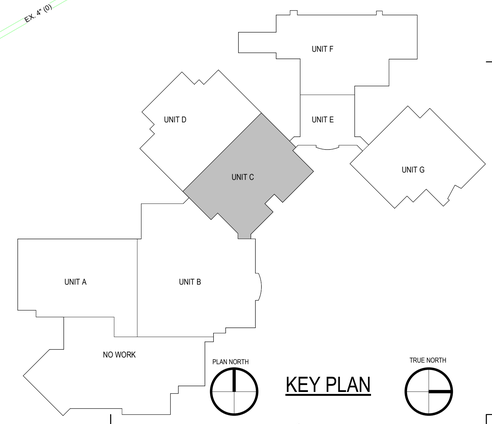

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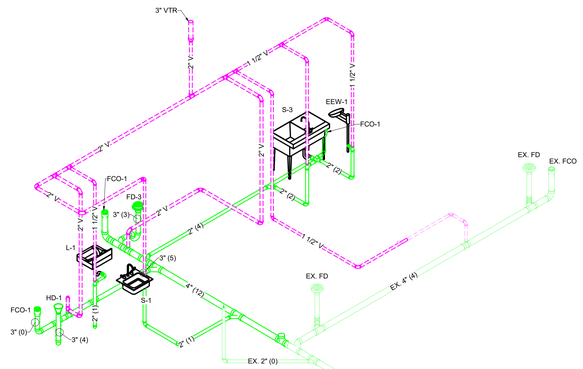
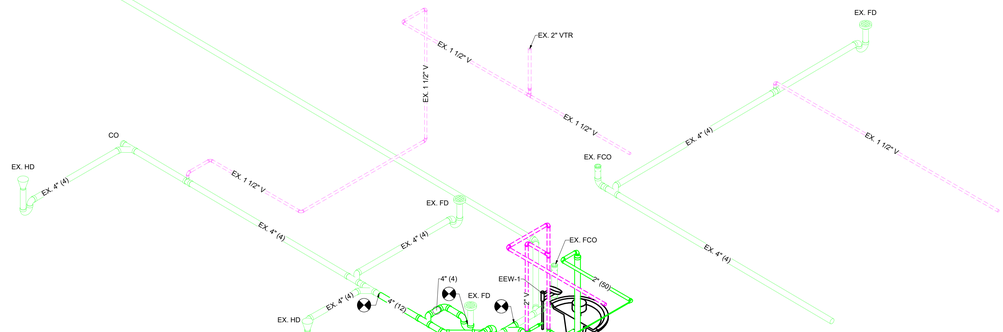
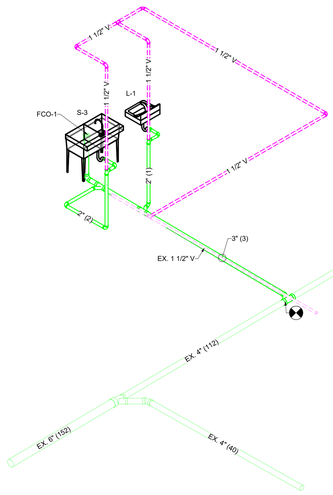
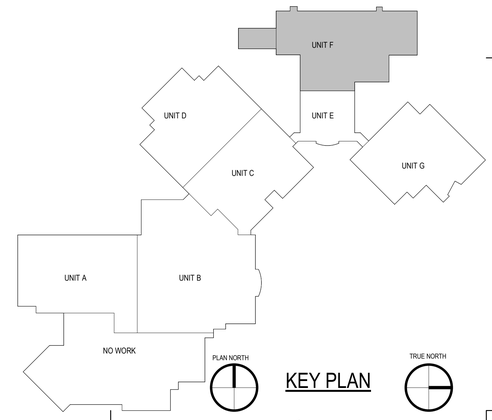






1 P3.0F1 DWV ISOMETRIC - UNIT F
Scale: Not To Scale



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SANITARY ISOMETRIC NOTES

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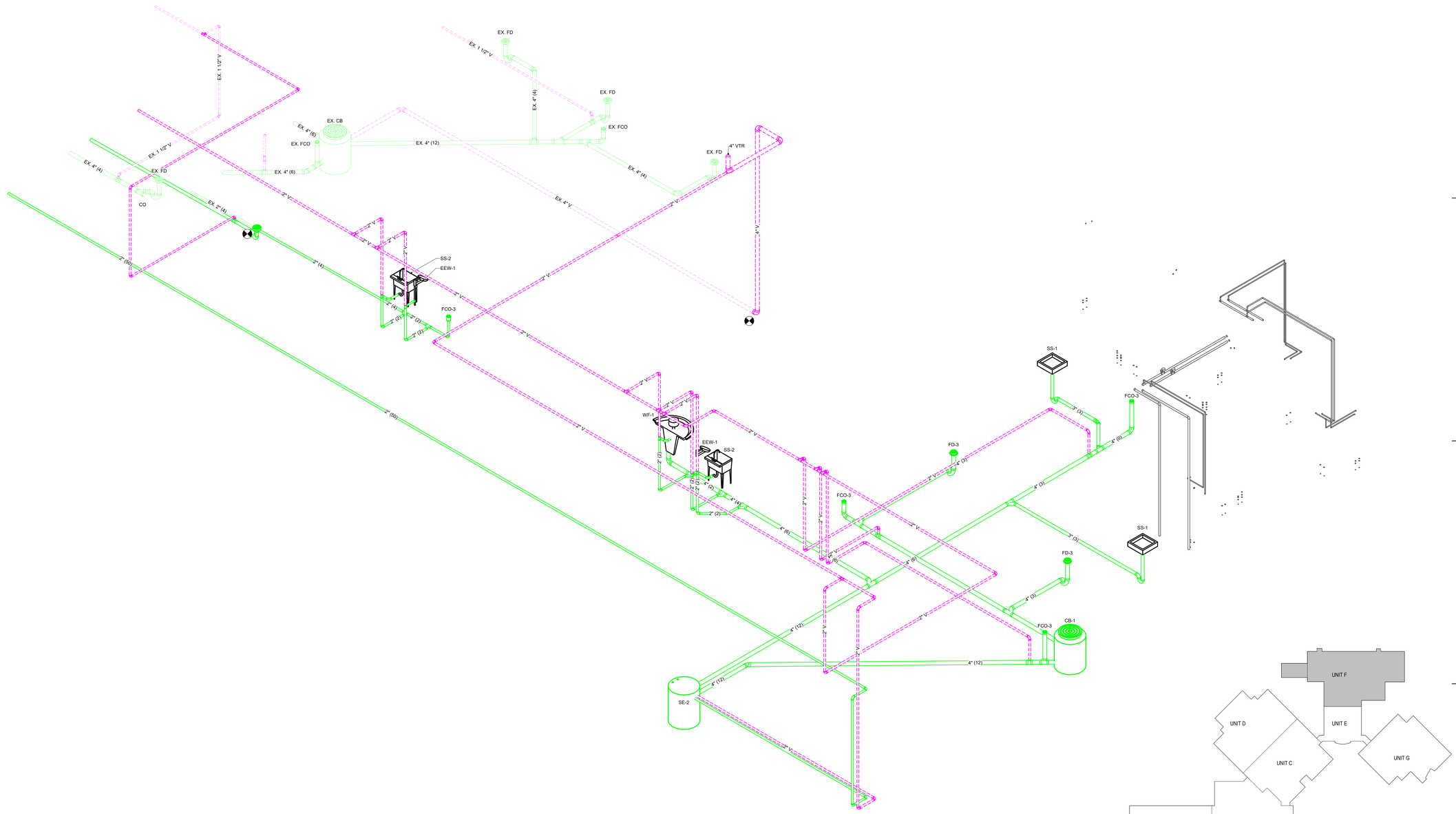

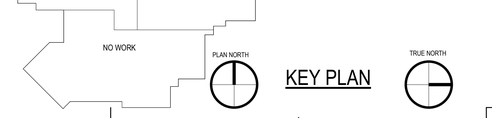

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1 P3.0F2 DWV ISOMETRIC - UNIT F

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DOMESTIC WATER ISOMETRIC NOTES

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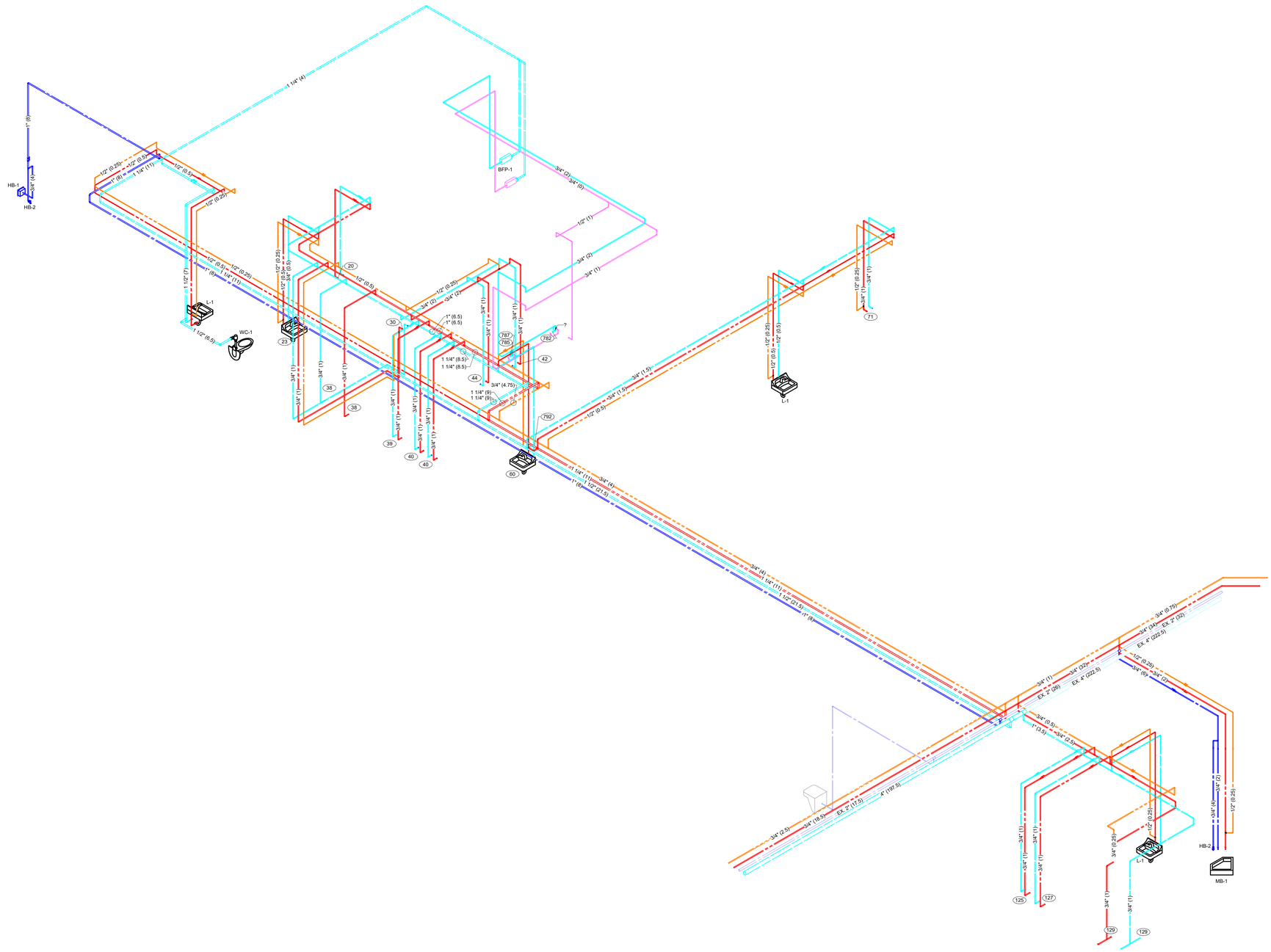
HB-1
HB-2
1" (6)
3/4" (4)
1 1/4" (8)
1/2" (0.25)
1" (8)
1 1/4" (11)
1/2" (0.5)
1/2" (0.25)
1 1/2" (7)
1" (8)
1 1/4" (11)
1/2" (0.5)
1/2" (0.25)
1 1/2" (0.5)
L-1
WC-1
1 1/2" (0.5)
1/2" (0.25)
1/2" (0.5)
1/2" (0.25)
3/4" (1)
3/4" (1)
3/4" (1

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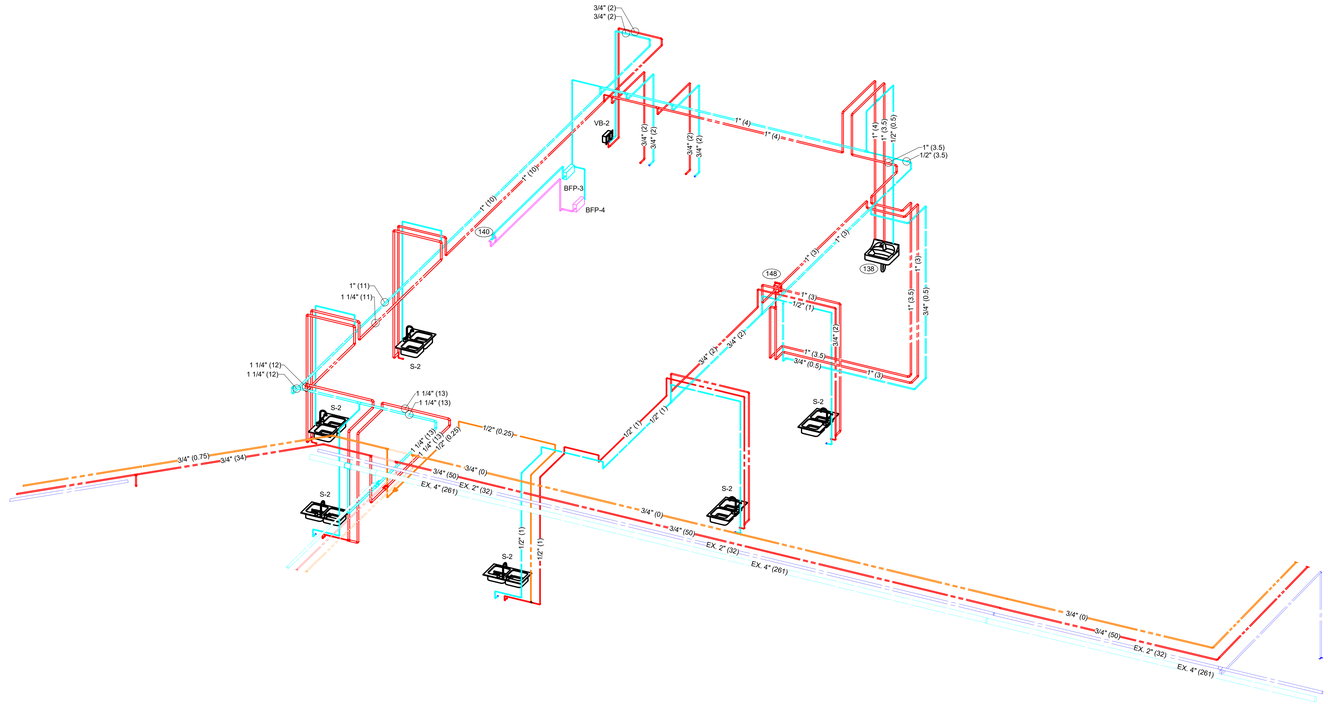

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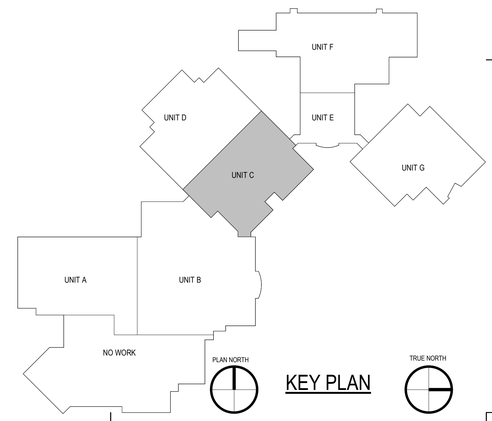

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Milwaukee
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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
WATER ISOMETRIC

Sheet Number:
P3.1C

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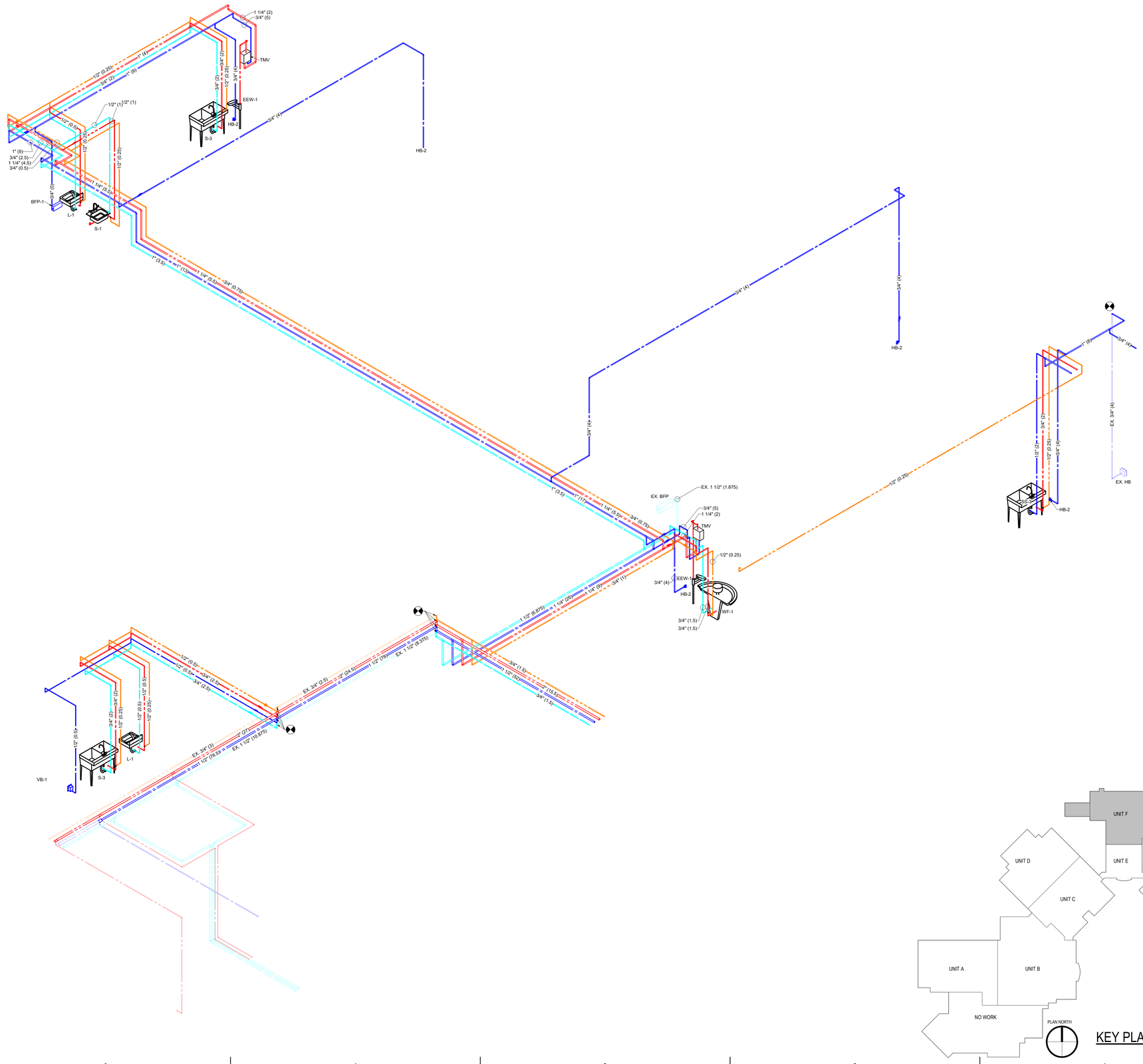
DOMESTIC WATER ISOMETRIC NOTES

SEE FOUNDATION / FLOOR PLANS AND PLUMBING CONNECTION SCHEDULE ON THE GENERAL NOTES SHEET FOR WATER BRANCH PIPE SIZE TO FIXTURE.

PROVIDE WATER HAMMER ARRESTORS ON ALL INDIVIDUAL FLUSH VALVES, OR BANK OF FLUSH VALVES, AND QUICK CLOSING VALVES.

HOT AND COLD WATER SUPPLY UNIT VALUES ARE SHOWN AS WATER FIXTURE UNITS.

HOT WATER RETURN UNIT VALUES ARE SHOWN AS GPM.



1 WATER ISOMETRIC - UNIT F
P3.1F1
Scale: Not To Scale

KEY PLAN

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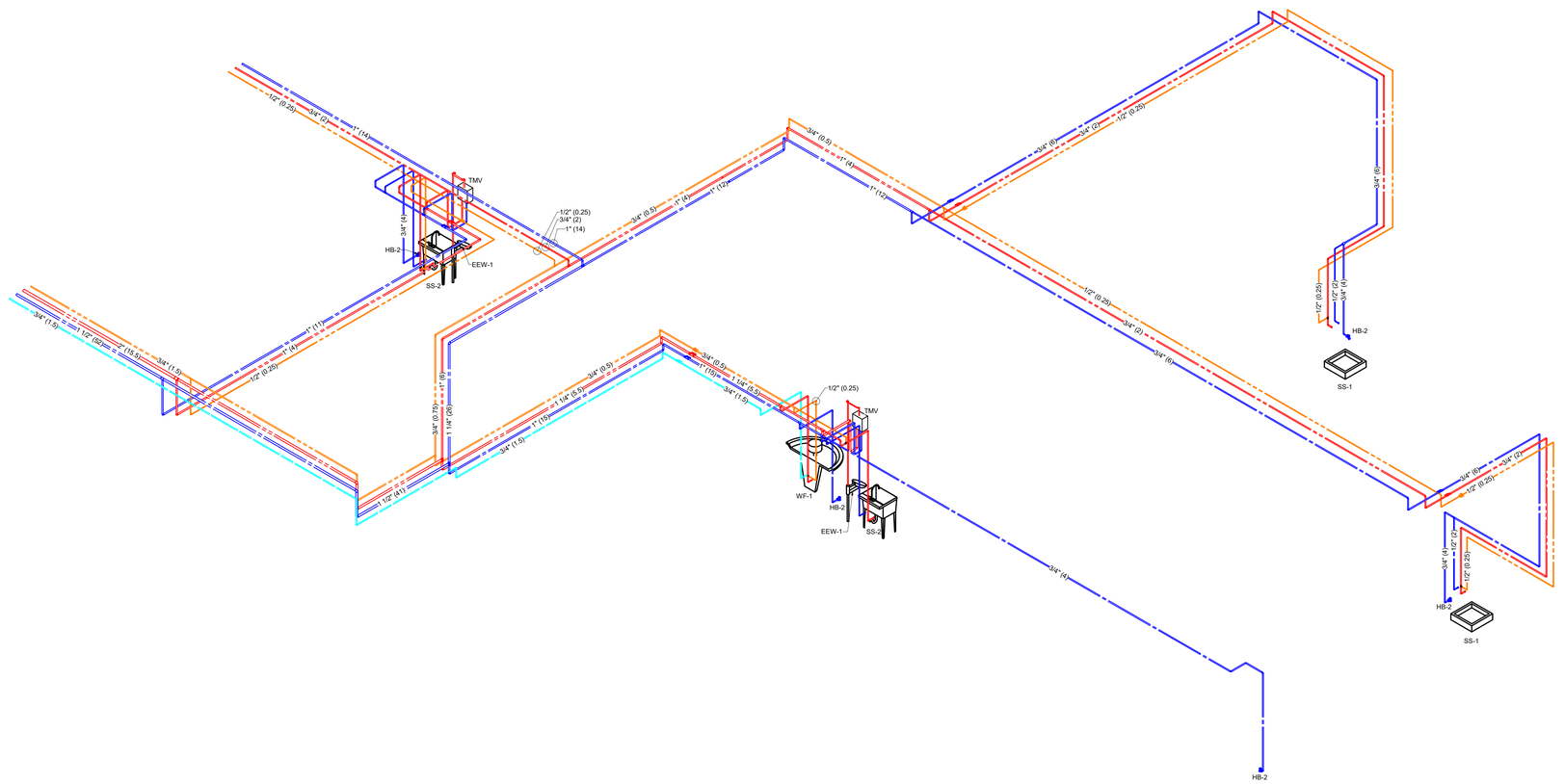

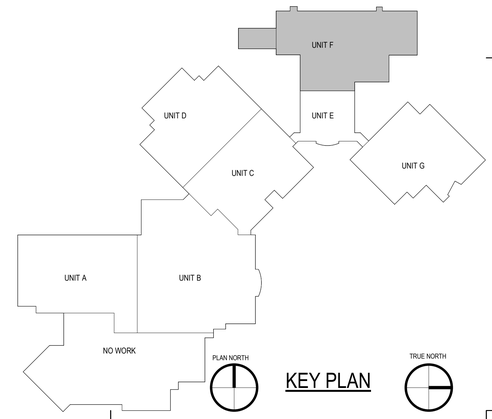

KEY PLAN

1 P3.1F2 WATER ISOMETRIC - UNIT F
Scale: Not To Scale

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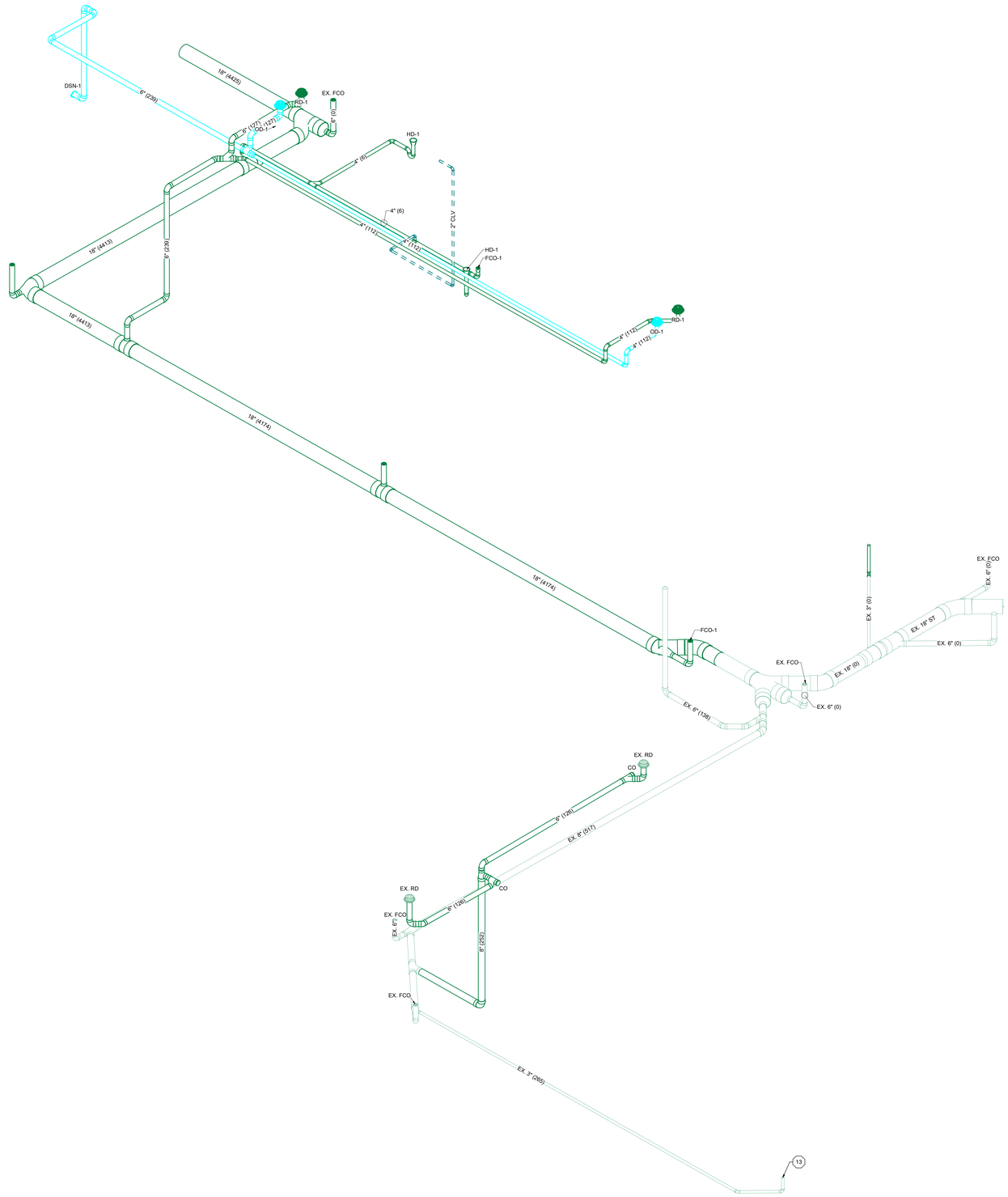
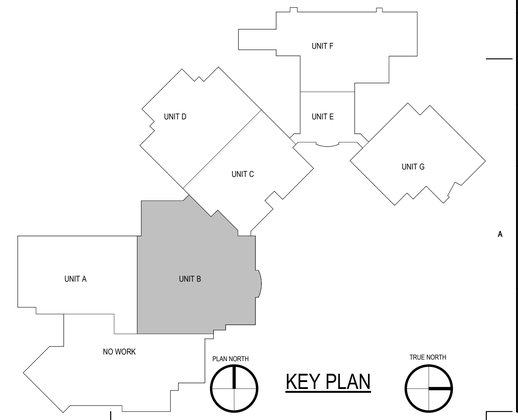
SHEET KEYNOTES	
13	ROUTE PIPING IN FURRING WALL.

STORM & CLEAR WATER ISOMETRIC NOTES

UNIT VALUES ARE SHOWN AS GALLON PER MINUTE.





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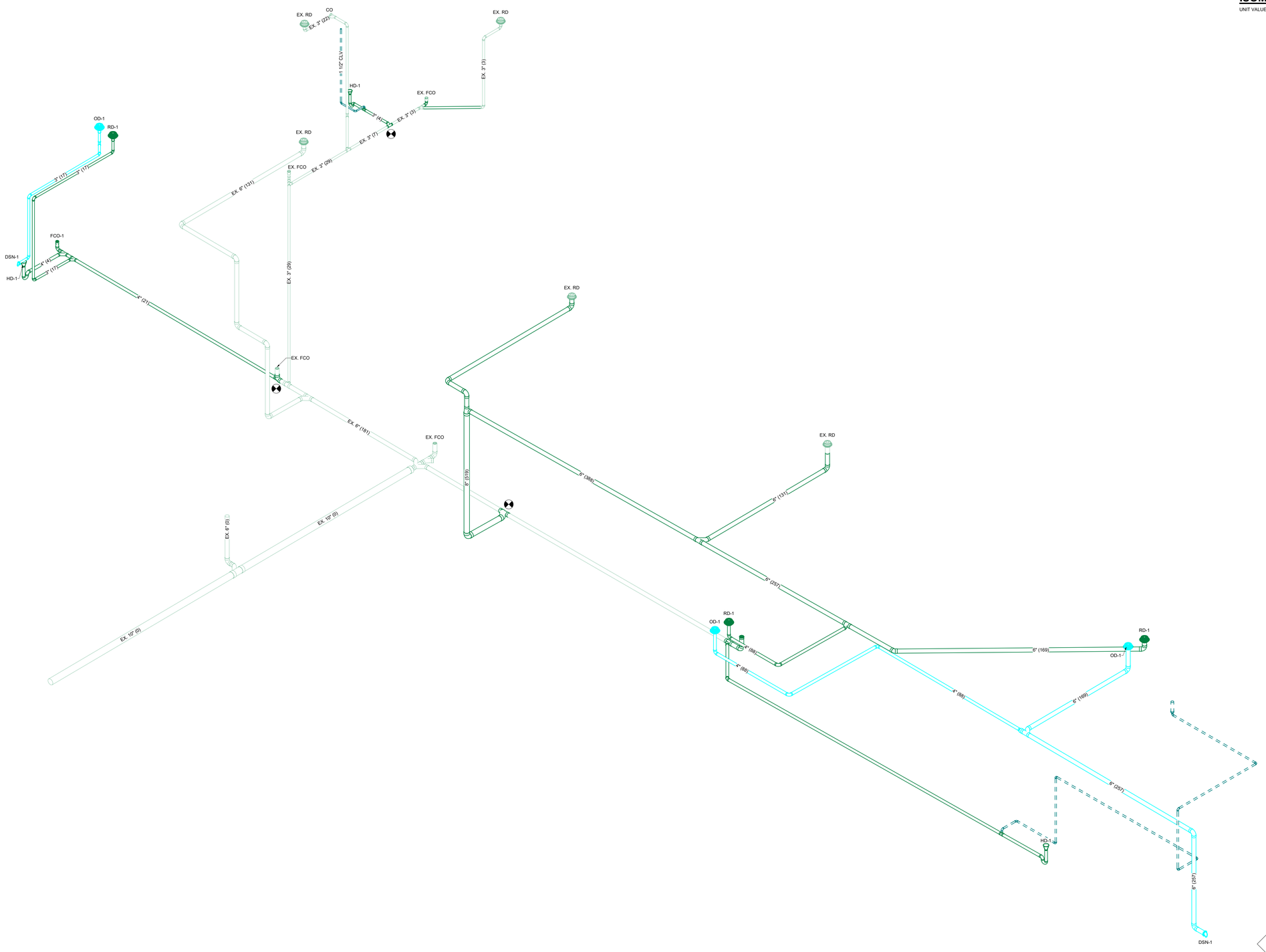
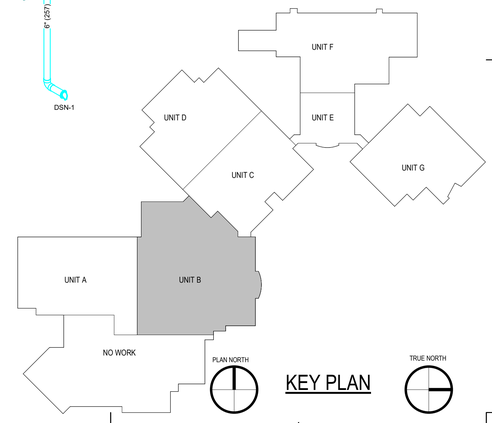
STORM & CLEAR WATER ISOMETRIC NOTES

UNIT VALUES ARE SHOWN AS GALLON PER MINUTE.





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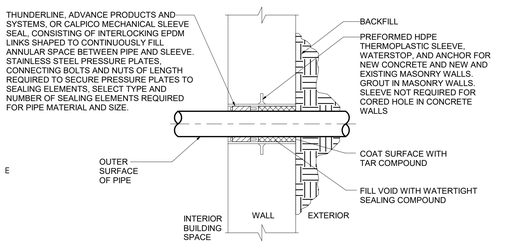
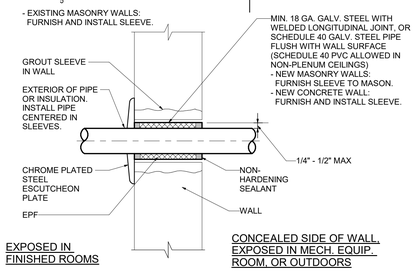


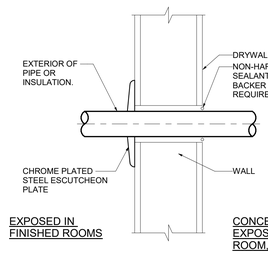
APPLICATIONS
- PIPE PENETRATION THRU BELOW GRADE EXTERIOR WALL



EXPOSED IN FINISHED ROOMS

CONCEALED SIDE OF WALL, EXPOSED IN MECH. EQUIP. ROOM, OR OUTDOORS

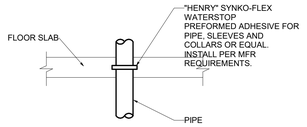
APPLICATIONS
- PIPE PENETRATION THRU MASONRY OR CONCRETE WALL



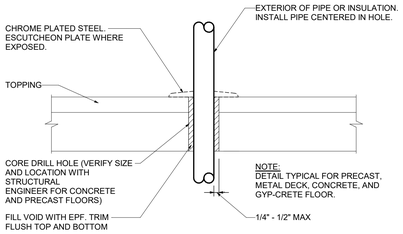
EXPOSED IN FINISHED ROOMS

CONCEALED SIDE OF WALL, EXPOSED IN MECH. EQUIP. ROOM, OR OUTDOORS

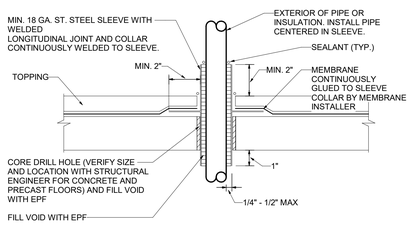
APPLICATIONS
- PIPE PENETRATION THRU STUD WALL



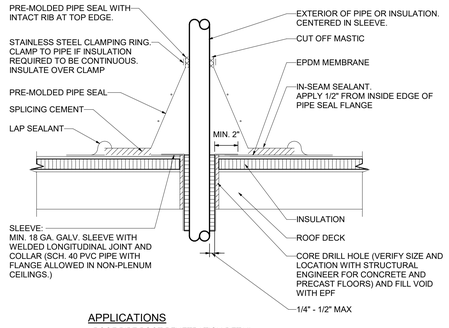
APPLICATIONS
- SLAB ON GRADE PIPE PENETRATION DETAIL



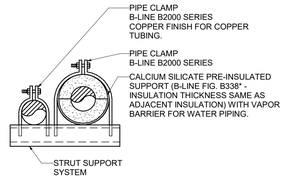
APPLICATIONS
- PIPE PENETRATION THRU ABOVE GRADE FLOOR



APPLICATIONS
- PIPE PENETRATION THRU ABOVE GRADE FLOOR WITH MEMBRANE



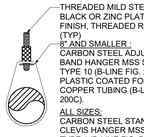
APPLICATIONS
- ROOF PIPE BOOT PENETRATION DETAIL



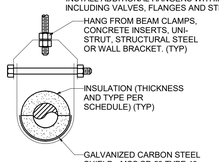
MAX. SPACING BETWEEN PIPE SUPPORTS AND MIN. HANGER ROD SIZES

PIPE SIZE	STEEL WATER	STEEL GAS	STEEL MIN. ROD	COPPER WATER	COPPER GAS	COPPER MIN. ROD	PVC	CPVC	PEX	CAST IRON	MIN. ROD
1/4"-1/2"	7'	8'	3/8"	5'	6'	3/8"	4'	3'	32"	5'	3/8"
3/4"	7'	9'	3/8"	5'	7'	3/8"	4'	3'	32"	5'	3/8"
1"	7'	9'	3/8"	6'	8'	3/8"	4'	3'	32"	5'	3/8"
1 1/4"	7'	9'	3/8"	7'	9'	3/8"	4'	4'	32"	5'	3/8"
1 1/2"	9'	12'	3/8"	8'	10'	3/8"	4'	4'	32"	5'	3/8"
2"	10'	12'	3/8"	8'	11'	3/8"	4'	4'	-	5'	3/8"
2 1/2"	11'	12'	3/8"	9'	12'	3/8"	4'	4'	-	5'	3/8"
3"	12'	12'	3/8"	10'	12'	3/8"	4'	4'	-	5'	3/8"
4"	12'	12'	3/8"	12'	12'	3/8"	4'	4'	-	5'	3/8"
6"	12'	12'	3/8"	12'	12'	3/8"	4'	4'	-	5'	3/8"
8"	12'	12'	1/2"	-	-	-	4'	4'	-	5'	3/8"
10"	12'	12'	1/2"	-	-	-	4'	4'	-	-	3/8"
12"	12'	12'	5/8"	-	-	-	4'	4'	-	-	3/8"
14"	12'	12'	5/8"	-	-	-	4'	4'	-	-	3/8"
16"	12'	12'	3/4"	-	-	-	4'	4'	-	-	3/8"
MAX VERT. (1)	15'	15'	-	10'	10'	-	10'	10'	10'		-

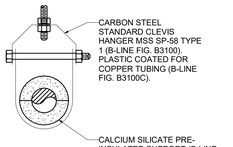
(1) SUPPORT AT MINIMUM EVERY FLOOR LEVEL OR SPACING LISTED.
(2) SPACING MAY BE INCREASED TO 10' FOR 10" PIPE LENGTHS.
MSS = MANUFACTURER'S STANDARDIZATION SOCIETY
- INSTALL ADDITIONAL HANGERS WITHIN 12" OF ELBOWS AND TEES AND AT CONCENTRATED LOADS, INCLUDING VALVES, FLANGES AND STRAINERS 2 1/2" AND LARGER.



APPLICATIONS
- UNINSULATED PIPING



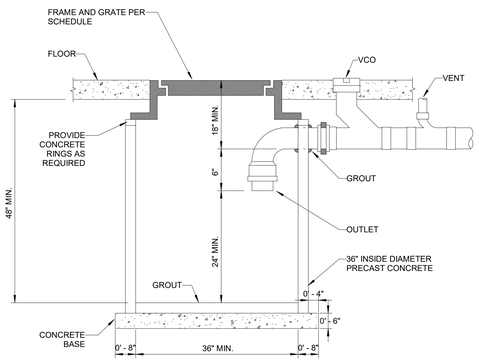
APPLICATIONS
- HOT AND COLD WATER PIPING



APPLICATIONS
- HOT AND COLD WATER PIPING

1 P4.0 PIPE PENETRATION DETAILS
Scale: Not To Scale

2 P4.0 PIPE HANGER AND INSULATION DETAILS
Scale: Not To Scale



3 P4.0 CATCH BASIN
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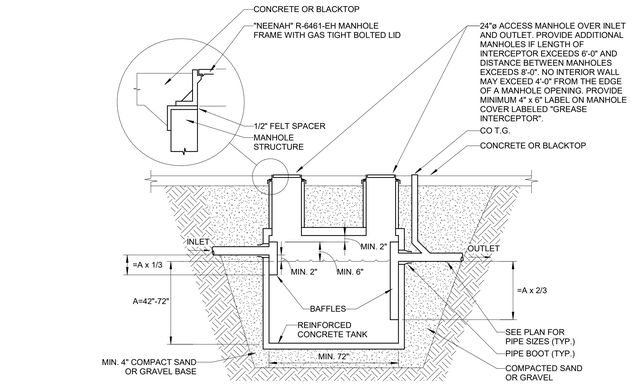

4 P4.0 EXTERIOR GREASE INTERCEPTOR DETAIL
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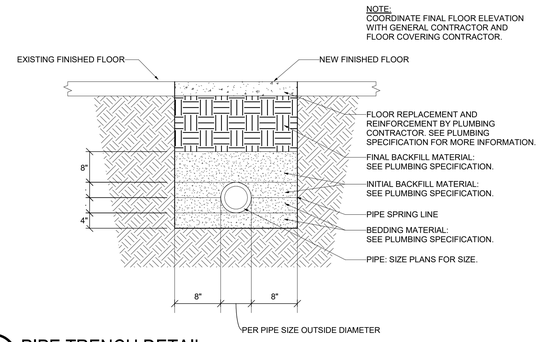

5 P4.0 PIPE TRENCH DETAIL
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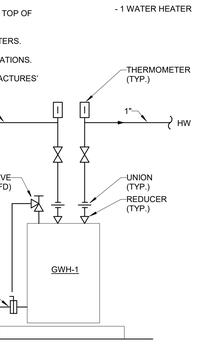
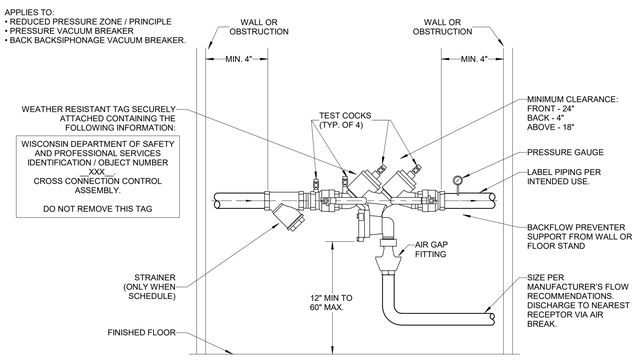


6 P4.0 WATER HEATER PIPING DETAIL
Scale: Not To Scale



7 P4.0 REDUCED PRESSURE ZONE BACKFLOW PREVENTER DETAIL
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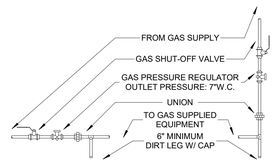

9 P4.0 GAS EQUIPMENT CONNECTION DETAIL
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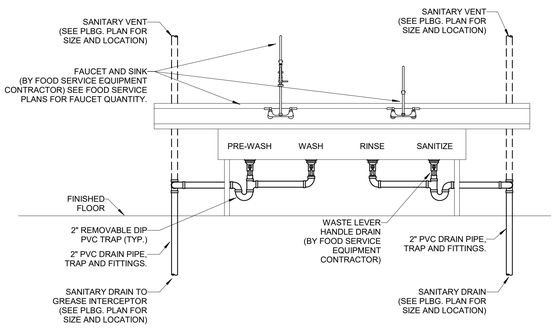
NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.

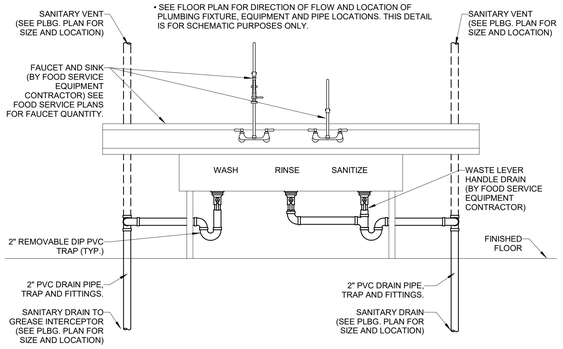


1 KITCHEN FOOD SERVICE DETAIL - 4 COMPARTMENT SINK

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.

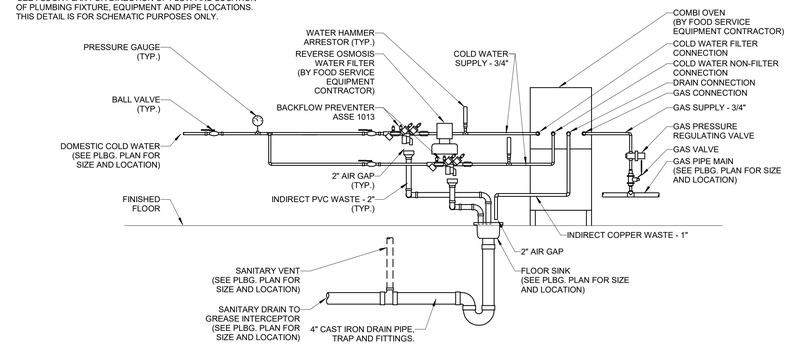


2 KITCHEN FOOD SERVICE DETAIL - 3 COMPARTMENT SINK

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.

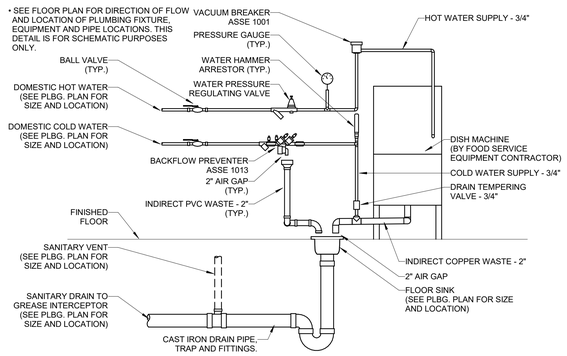


3 KITCHEN FOOD SERVICE DETAIL - COMBI OVEN

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.



4 KITCHEN FOOD SERVICE DETAIL - DISH MACHINE

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.

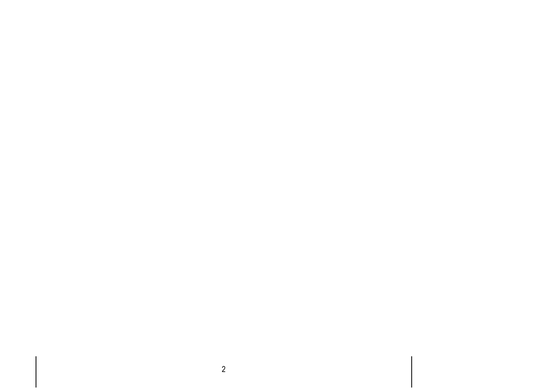


5 KITCHEN FOOD SERVICE DETAIL - FOOD PREP

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.



6 KITCHEN FOOD SERVICE DETAIL - PRE-WASH SINK / WORK TABLE

P4.1 Scale: Not To Scale

NOTE:

• SEE FLOOR PLAN FOR DIRECTION OF FLOW AND LOCATION OF PLUMBING FIXTURE, EQUIPMENT AND PIPE LOCATIONS. THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.

7 KITCHEN FOOD SERVICE DETAIL - TYPICAL FAUCET CONNECTION

P4.1 Scale: Not To Scale

NOTE:

• SEE SANITARY EJECTOR CALCULATIONS DETAIL REFERENCE CODE FOR LETTER HEIGHT INFORMATION.

• PROVIDE 4" ANTI-FLOTATION FLANGE AND BOTTOM OF THE BASIN.

8 SEWAGE EJECTOR - KITCHEN DETAIL

P4.1 Scale: Not To Scale

NOTE:

• SEE SANITARY EJECTOR CALCULATIONS DETAIL REFERENCE CODE FOR LETTER HEIGHT INFORMATION.

• PROVIDE 4" ANTI-FLOTATION FLANGE AND BOTTOM OF THE BASIN.

9 SEWAGE EJECTOR - TECH ED DETAIL

P4.1 Scale: Not To Scale

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

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AIR COMPRESSOR SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	SIZE (L" x W" x H")	FLOW (CFM)	TANK (GAL)	PRESSURE (PSIG)	HP	VOLTS/PHASE	MAX. PRESS. (PSIG)	NOTES
AC-1	QUINCY	QGS-20	ROTARY SCREW W/ DRYER	75" x 31" x 72"	82	120	125	20	208 / 3	150	(1)
AC-2	QUINCY	QGS-20	ROTARY SCREW W/ DRYER	75" x 31" x 72"	82	120	125	20	208 / 3	150	(1)

- ACCEPTABLE MANUFACTURERS: QUINCY, GARDNER DENVER, INGERSOLL RAND, EATON

- INCLUDE INLET AND OUTLET PARTICULATE FILTERS

(1) PROVIDE INTEGRATED DRYER 208V/1P

(2) PROVIDE EXTERNAL REFRIGERATED AIR DRYER PER THE CFM FLOW RATE WITH 120V/1P ELECTRICAL CONNECTIONS. QUINCY -...

(3) PROVIDE STAND ALONE COMPRESSED AIR RECEIVER AND DESICCANT FILTER FOR DUST COLLECTION.

BACKFLOW PREVENTER SCHEDULE

TAG	MANUFACTUR...	MODEL	LOCATION	MAX. PD. (PSI)	INDIRECT WASTE...	SIZE	VALVE TYPE	APPLICATI...	ASSE STD.	NOTES
BFP-1	WATTS	LF009-QT-S	KITCHEN	15.0	YES	3/4"	REDUCED PRESSURE	-	1013	(1)(6)
BFP-2	WATTS	LF009-QT-S	KITCHEN	15.0	YES	3/4"	REDUCED PRESSURE	-	1013	(1)(6)
BFP-3	WATTS	LF009-QT-S	FCS	15.0	YES	3/4"	REDUCED PRESSURE	-	1013	(1)(6)
BFP-4	WATTS	LF009-QT-S	FCS	15.0	YES	3/4"	REDUCED PRESSURE	-	1013	(1)(6)
BFP-5	WATTS	LF009-QT-S	GREENHOUSE	15.0	YES	3/4"	REDUCED PRESSURE	-	1013	(1)(6)

- ACCEPTABLE MANUFACTURERS: AMES, APOLLO, WATTS, ZURN/WILKINS.

(1) LEAD FREE BODY.

(6) PROVIDE AIR GAP FITTING.

CIRCULATING PUMP SCHEDULE

TAG	MANUFACTURER	MODEL	GPM	HEAD (FT)	MOTOR HP / WATTS	VOLTS / PHASE	NOTES
CP-1	BELL & GOSSETT	NBF-12	10	5	55 WATTS	115 / 1	(1)

- ACCEPTABLE MANUFACTURERS: BELL & GOSSETT, GRUNDFOS, TACO.

(1) PROVIDE INLINE AQUASTAT TO SHUT OFF PUMP AT A 10 DELTA T TEMPERATURE DROP OF SUPPLY OUTLET...

CLEANOUT SCHEDULE

TAG	MANUFACTUR...	MODEL	TYPE	APPLICATION	BODY MATERIAL	ACCESS COVER SIZE	ACCESS COVER MATERIAL	NOTES
CO	-	-	-	ABV. CLGS & EXPOSED PIPE	PVC	-	-	(1)
FCO-1	ZURN	Z1400-BZ1	FLOOR	PEDESTRIAN TRAFFIC AREAS	CAST IRON	8" DIA	NICKEL BRONZE	(2)
FCO-3	ZURN	Z1400	FLOOR	MECHANICAL ROOMS	CAST IRON	8" DIA	CAST IRON	-
FCO-4	ZURN	Z1400-HD	INTERIOR	VEHICLE TRAFFIC AREAS	CAST IRON	-	CAST IRON	-
WCO	ZURN	Z1469	WALL	WALL	PVC	9" DIA	STAINLESS ST.	(3)

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN, RECTOR SEAL

- RECESSED TAPER THREAD PLUG WITH SLOTTED RECESS.

(1) PROVIDE THREADED FEMALE ADAPTER WITH INTERNAL PLUG. ADAPTER MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH CO IS BEING CONNECTED.

(2) PROVIDE CARPET MARKERS AS REQUIRED PER FLOOR TYPE.

(3) PROVIDE TEST/CLEANOUT TEE. THREADED PLUG WITH BRASS INSERT. MATERIAL SHALL MATCH PIPE MATERIAL TO WHICH TEE IS BEING CONNECTED.

DOMESTIC WATER PRESSURE BOOSTER PUMP

TAG	MANUFACTURER	MODEL	TYPE	MOUNTING	APPLICATION	TANK (GAL)	FLOW (GPM)	NO. PUMPS	PUMP FLOW	SUCTION (PSIG)	OUTLET (PSIG)	HP	FLA	VOLT / PHASE	NOTES
BP-1	MCCANN'S	16-3174	-	-	POINT OF USE	4	2	1	-	-	60	1/5	-	120/1	(1)

- ACCEPTABLE MANUFACTURERS: BELL & GOSSETT, GOULDS, MCCANN'S, GRUNDFOS

(1) SEE SPECIFICATIONS FOR MORE INFORMATION.

DRAIN SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	BODY MATERIAL	STRAINER TOP SIZE	STRAINER TOP MATERIAL	NOTES
FD-1	ZURN	Z415-BZ1	FLOOR	PEDESTRIAN TRAFFIC AREAS	CAST IRON	7" DIA	NICKEL BRONZE	(1)(7)
FD-2	ZURN	Z507	FLOOR	MECH. RM. JANITOR CLT.	CAST IRON	7" DIA	CAST IRON	(1)(7)
FD-3	ZURN	Z508	FLOOR	VEHICLE STORAGE AREAS	CAST IRON	9" DIA	CAST IRON	(1)(8)
FS-1	ZURN	Z1900-2	FLOOR	FLOOR SINK	CAST IRON	12"x12"x6"	ALUM. DOME	(1)(5)
HD-1	ZURN	Z326	RECEPTOR	INDIRECT WASTE	NICKEL BRONZE	4" DIA	-	(2)
RD-1	ZURN	Z100-DP-EA	ROOF	PRIMARY DRAIN	CAST IRON	12"	CAST IRON	(3)
OD-1	ZURN	Z100-DP-EA-W3	ROOF	OVERFLOW DRAIN	CAST IRON	12"	CAST IRON	(3)
DSN-1	ZURN	ZANB-199-SS	WALL	DOWNSPOUT NOZZLE	NICKEL BRONZE	-	-	(4)

- ACCEPTABLE MANUFACTURERS: J.R. SMITH, WATTS, ZURN.

(1) PROVIDE FLASHING CLAMP FOR FLOORS WITH BUILDING STRUCTURE BELOW. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

(2) RECEPTOR END SHALL BE ONE PIPE SIZE LARGER THAN TRAP SIZE.

(3) FOR NEW ROOFS PROVIDE ROOF DRAIN SUMP RECEIVER, UNDERDECK CLAMP, AND ADJUSTABLE EXTENSION. THE ROOF DRAIN SHALL BE SET 1/2" LESS THAN INSULATION THICKNESS AT ROOF DRAIN. SEE ARCHITECTURAL ROOF PLANS FOR MORE...

(4) PROVIDE STAINLESS STEEL SCREEN.

(5) PROVIDE 1/2 GRATE.

(7) PROVIDE TRAP SEAL - RECTORSEAL SURE SEAL

(8) PROVIDE SEDIMENT BUCKET.

EMERGENCY FIXTURE SCHEDULE

TAG	FIXTURE										MIXING VALVE					
	MANUFACTURER	MODEL	MOUNTING	OPERATION	BOWL MATERIAL	BOWL COVER	EYE WASH	FACE WASH	SHOWER	SHOWER HEAD MATERIAL	MANUFACTURER	MODEL	ASSE	DISCHARGE TEMP. (°F)	PRESSURE DROP (PSI)	NOTES
EEW-1	BRADLEY	S19224	WALL	HAND	STAINLESS	NO	YES	NO	NO	-	BRADLEY	S19-2000 (EFX8)	1071	80	5	-

- ACCEPTABLE MANUFACTURERS: BRADLEY, GUARDIAN, HAWS, SPEAKMAN.

- PROVIDE WITH CHROME PLATED YOKE ASSEMBLY WITH EYE WASH HEADS AND SPRAY HEAD COVERS, DOME STRAINER, MANUALLY OPERATED 1/2" STAY-OPEN BALL VALVE, 1 1/2" WASTE CONNECTION, AND WALL MOUNTABLE IDENTIFICATION...

- PROVIDE SHOWER WITH 1" IPS STAY-OPEN BALL VALVE OPERATED BY A STAINLESS STEEL PULL ROD WITH TRIANGULAR HANDLE.

(1) INSTALL MIXING VALVE EXPOSED INSIDE OF CASEWORK.

(2) INSTALL MIXING VALVE EXPOSED ON WALL.

(3) INSTALL MIXING VALVE EXPOSED ABOVE CEILING.

(4) INSTALL MIXING VALVE WITH CABINET ON WALL.

(5) MOUNT NEAR ASSOCIATED SINK BASIN. COORDINATE FINAL LOCATION WITH SINK BASIN AND FAUCET.

(6) MOUNT ON ASSOCIATED SINK BASIN. COORDINATE FINAL LOCATION WITH SINK BASIN AND FAUCET.

(7) PROVIDE ELECTRIC LIGHT AND ALARM HORN WITH SILENCING SWITCH. CONNECT TO BMS.

GREASE INTERCEPTOR SCHEDULE - EXTERIOR

TAG	MANUFACTURER	MODEL	TYPE	SIZE (L" x W" x H")	FLOW RATE (GPM)	GREASE CAPACITY (LBS.)	SOLIDS CAPACITY (GAL)	LIQUID CAPACITY (GAL)	INLET & OUTLET SIZE	NOTES
GI-8	WIESER	WWEHD10000	BELOW GROUND	156" x 84" x 87"	-	-	-	10,182	4"	-

- ACCEPTABLE MANUFACTURERS: CREST, WIESER

- FULLY RECESSED INTERCEPTORS TOPS FLUSH WITH FLOOR, PROVIDE EXTENSIONS AS REQUIRED AND ANCHOR FLANGE.

- EXTERIOR GREASE INTERCEPTOR SHALL HAVE A CONCRETE BODY WITH HIGH DUTY VEHICLE RATED MANHOLE COVERS.

HOSE BIBB SCHEDULE

TAG	MANUFACTUR...	MODEL	LOCATION	FREEZE PROOF	CONTROL	WATER...	NOTES
HB-1	WOODFORD	B67	EXTERIOR	YES	BOX w/ LOOSE KEY	COLD	-
HB-2	WOODFORD	26	INTERIOR	NO	METAL WHEEL HANDLE	COLD	-

- ACCEPTABLE MANUFACTURERS: ACORN, CHICAGO, WATTS, WOODFORD, ZURN.

(1) PROVIDE ROOF MOUNTING SYSTEM WITH DRAIN.

(2) HOSE BIBB FED FROM ABOVE/BELOW. PROVIDE VERTICAL CONNECTION.

HOSE REEL SCHEDULE

TAG	MANUFACTUR...	MODEL	TYPE	APPLICATION	MATERI...	RETRACTAB...	SIZE	HOSE...	QUICK...	NOTES
HR-1	HUBBELL	GHE3870-L	EXPOSED	COMPRESSED AIR	STEEL	YES	1/2"	70' (VERIFY)	FEMALE 3/8"	-

- ACCEPTABLE MANUFACTURERS: COXREELS, REELCRAFT

LAVATORY SCHEDULE

TAG	ADA (1)	BASIN							FAUCET					NOTES
		MANUFACTURER	MODEL	MOUNTING	DRAIN TYPE	FAUCET HOLES	CENTER OF HOLES	CARRIER	MANUFACTURER	MODEL	FLOW RATE (GPM)	SPRAY TYPE	OPERATION TYPE	
L-1	YES	KOHLER	K-2005	WALL	GRID	3	4"	YES	CHICAGO	802-VE2805-665-ABCP	0.5		METERED	(2)

- ACCEPTABLE MANUFACTURERS:

-BASIN: AMERICAN STANDARD, KOHLER, SLOAN, ZURN.

-FAUCETS: SLOAN.

-STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

-DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

-CARRIERS AND SUPPORTS: ANCON, JOSAM, SMITH, WADE, ZURN.

- VITREOUS CHINA LAVS, 1-1/4" 17 GAUGE "P" TRAP WITH CLEANOUT PLUG, BUSHING ON END OF OUTLET TUBE, WALL FLANGE.

- ALL WETTED PARTS SHALL BE LEAD FREE COMPLIANT.

- PROVIDE OFFSET GRID DRAIN WITH TRUEBRO TRAP & SUPPLY GUARD FOR EXPOSED PIPING UNDER ADA ACCESSIBLE FIXTURES.

- PROVIDE BASINS WITH CENTER REAR DRAIN OUT-LET LOCATION FOR ADA ACCESSIBLE FIXTURES WITH CASE-WORK SHROUDS.

(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS AND FINAL RIM HEIGHT ELEVATIONS.

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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SERVICE SINK SCHEDULE

TAG	MOUNTING	BASIN							FAUCET			NOTES
		MANUFACTURER	MODEL	MATERIAL TYPE	SIZE L/H" x W" x D"	SHAPE	DRAIN TYPE	RIM GUARD	MANUFACTURER	MODEL	BACKFLOW PREVENTER	
SS-1	FLOOR	MUSTEE	63M	DURASTONE	24" x 24" x 10"	SQUARE	GRID	(1)	CHICAGO	897RCP	(2)	(3)
SS-2	FLOOR	MUSTEE	18F	DURASTONE	40" x 24" x 14 3/8"	SQUARE		-	CHICAGO	1895-GN8AE3ABCP	(2)	(4)
SS-3	FLOOR	MUSTEE	40F	DURASTONE	40" x 24" x 14 3/8"	SQUARE		-	CHICAGO	1895-GN8AE3ABCP	(2)	(4)

- ACCEPTABLE MANUFACTURERS:

- BASIN: FIAT, MUSTEE, STERN WILLIAMS, JUST.

- FAUCET: CHICAGO, T&S BRASS, ZURN.

(1) BUMPER GUARDS ON EXPOSED RIMS.

(2) PROVIDE HOSE-END VACUUM BREAKER, ASSE 1011.

(3) PROVIDE STAINLESS STEEL 3 MOP HOLDER HANGER, HEAVY DUTY 5/8" DIAMETER REINFORCED RUBBER HOSE, AND STAINLESS STEEL HOSE BRACKET.

(4) PROVIDE SOLIDS INTERCEPTOR STRIEM SIDEKICK

SEWAGE EJECTOR SCHEDULE

TAG	LOCATION	BASIN			COVER			PUMP								NOTES
		MANUFACTURER	MATERIAL TYPE	SIZE	MANUFACTURER	MODEL	TYPE	MANUFACTURER	MODEL	TYPE	QTY.	GPM EACH	TOTAL HEAD	HP EACH	VOLT / PHASE	
SE-1	KITCHEN	TOPP	FIBERGLASS	(1)	TOPP	STEEL	STEEL (2)	LIBERTY	LSGX202M	GRINDER	2	40	21.5	2		(3)(5)
SE-2	TECH ED	TOPP	FIBERGLASS	(1)	TOPP	?	STEEL (2)	LIBERTY	LSGX202M	GRINDER	2	40	21.5	2		(3)(5)

- ACCEPTABLE MANUFACTURERS:

- BASIN: TOPP INDUSTRIES, AK INDUSTRIES, WEIL.

- COVER: TOPP INDUSTRIES, AK INDUSTRIES, WEIL.

- PUMP: LIBERTY, ZOELLER, WEIL, LITTLE GIANT.

- CONCRETE STRUCTURE: CONCRETE SPECIALTIES, COUNTY MATERIALS, WIESER OR EQUAL.

- COVER: NEENAH, OR EQUAL.

- PUMP: HYDRO-MATIC, MYERS, GOULDS, WEIL, ZOELLER.

- PROVIDE "LIBERTY" BCV SERIES COMBINATION BALL/CHECK VALVE FOR PUMP DISCHARGE.

(1) SEE DETAIL FOR BASIN SIZE AND CONTROL LEVEL DIMENSIONS.

(2) PROVIDE COVER WITH INSPECTION PLATE, COVER PLATE, DISCHARGE/VENT FLANGES AND CORD GROMMETS.

(3) PROVIDE CONTROLLER, CONTROL FLOAT SWITCHES, ALARM LIGHT AND HORN, INDIVIDUAL PUMP RUN INDICATOR LIGHTS, ALARM TEST AND SILENCE SWITCHES, HOA SWITCH, DRY AUX CONTACTS, NEMA 1 ENCLOSURE, AND...

(4) VEHICLE TRAFFIC TYPE, GAS TIGHT SOLID COVER LID WITH IRON RING

(5) PROVIDE PUMP SLIDE RAILS.

(6) EXPLOSION PROOF.

SINK SCHEDULE

TAG	ADA (1)	BASIN						FAUCET								NOTES
		MANUFACTURER	MODEL	NO. OF COMP	MOUNTING	SIZE L" x W" x D"	DRAIN TYPE	MANUFACTURER	MODEL	FAUCET QTY.	SPOUT REACH	SPOUT HEIGHT	FLOW RATE (GPM)	SPRAY TYPE	HANDLE	
S-1	YES	JUST	SLADA1921A553-J	1	TOP-MOUNT	22" x 19-1/2" x 5-1/2"	BASKET	CHICAGO	1100-GN8AE35-317AB	1	8"	8"	1.5	AERATED	WRIST BLADE	-
S-2	YES	JUST	DLADA1933A553-J	2	TOP-MOUNT	33" x 19-1/2" x 5-1/2"	BASKET	CHICAGO	1100-GN8AE35-317AB	1	8"	8"	1.5	AERATED	WRIST BLADE	-
S-3	NO	JUST	SB230-24R-2-J	2	FLOOR MOUNT WITH LEGS PER NSF	55" x 27-1/2" x 14"	BASKET	CHICAGO	631-GN8AE3ABCP	2	8"	8"	1.5	AERATED	WRIST BLADE	(2)(14)(15)

- ACCEPTABLE MANUFACTURERS:

- BASIN: ADVANCE TABCO, JUST, ELKAY.

- FAUCETS: CHICAGO, T&S BRASS, ZURN.

- STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

- DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

- MATERIAL: 18 GAUGE 304 STAINLESS STEEL SINK, ANGLE SUPPLIES WITH STOPS WITH BRASS STEMS.

- PROVIDE EACH COMPARTMENT WITH STAINLESS STEEL BASKET TYPE STRAINER, STAINLESS STEEL TAILPIECE , AND 1-1/2" 17 GAUGE "P" TRAP W/ CLEANOUT.

- VERIFY SINK CUTOUT SIZE WILL FIT IN COUNTERTOP WITH CABINET SHOP DRAWINGS PRIOR TO ORDERING.

(1) PROVIDE OFFSET GRID DRAIN WITH TRUEBRO TRAP & SUPPLY GUARD FOR ADA ACCESSIBLE SINK. SEE ARCHITECTURAL PLANS FOR LOCATIONS.

(14) PROVIDE FAUCET HOLE CONFIGURATION 4 TO ALLOW FOR TWO FAUCETS.

(15) PROVIDE SINK BASIN RIM HEIGHT OF 31" ABOVE FINISH FLOOR. MODIFY LEGS AS REQUIRED.

VALVE BOX SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	VALVE	BOX MATERIAL	WATER INLET SIZE	WATER OUTLET SIZE	DRAIN SOCKET SIZE	NOTES
VB-1	SIOUX CHIEF	696-G1010	COFFEE / ICE MAKER	1/4 TURN	PLASTIC	1/2" COLD	3/8" COMP.	-	(1)(2)
VB-2	SIOUX CHIEF	696-2313MF	WASHING MACHINE	1/4 TURN	PLASTIC	1/2" HOT & COLD	3/4" HOSE	2"	(2)

- ACCEPTABLE MANUFACTURERS: SIOUX CHIEF, SYMMONS, GUY GRAY.

- ABS PLASTIC BOX AND FRAME, GALVANIZED STEEL MOUNTING BRACKET, BRASS VALVE BODY, INTEGRAL WATER HAMMER ARRESTOR AND...

(1) PROVIDE DUAL CHECK VALVE THAT COMPLIES WITH ASSE1024.

(2) WATER HAMMER ARRESTORS SHALL COMPLY WITH ASSE 1010.

(3) STANDPIPE RIM 36" A.F.F.

WASH FOUNTAIN SCHEDULE

TAG	ADA (1)	MANUFACTURER	MODEL	MOUNTING	SIZE L" x W" x D"	DRAIN TYPE	GPM	OPERATION TYPE	FINISH	NOTES
WF-1	YES	BRADLEY	SN2004-A-STD-IRP-NSD-TMA-BS	WALL	20" x 18 "x 8-1/2"	GRID	0.5	SENSOR	ST. STL.	(2)

- ACCEPTABLE MANUFACTURERS:

- BASIN: BRADLEY.

- STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

- DRAINS AND TRAPS: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS.

(2) BATTERY POWERED. PROVIDE BELOW DECK POINT OF USE THERMOSTATIC MIXING VALVE SHALL COMPLY WITH ASSE 1016.

(3) PROVIDE STAINLESS STEEL SHROUD.

WATER CLOSET SCHEDULE

TAG	ADA (1)	BOWL					TANK		FLUSH VALVE				SEAT		NOTES
		MANUFACTURER	MODEL	MOUNTING	RIM HT. A.F.F.	CARRIER	TYPE	GAL. PER FLUSH	MANUFACTURER	MODEL	GAL. PER FLUSH	OPERATION TYPE	MANUFACTURER	MODEL	
WC-1	YES	KOHLER	K-84325-0	WALL	17"	YES	-	-	SLOAN	SLOAN 111-1.6	1.6	LEVER	BEMIS	1655SSCT	-

- ACCEPTABLE MANUFACTURERS:

- BOWL: KOHLER

- FLUSH VALVE: SLOAN

- TANK: KOHLER

- SEAT: BEMIS, CHURCH.

- STOPS AND SUPPLIES: BRASSCRAFT, DEARBORN, KEENEY, MCGUIRE.

- CARRIER AND SUPPORT: J.R. SMITH, WADE, ZURN.

- CONTROLS FOR ADA ACCESSIBLE FIXTURES SHALL BE ON THE OPEN SIDE.

(1) SEE ARCHITECTURAL PLANS FOR LOCATIONS.

WATER HEATER SCHEDULE - GAS

TAG	MANUFACTURER	MODEL	TYPE	DIMENSIONS	FUEL	INPUT (MBH)	OUTPUT (MBH)	REC. (1) (GPH)	TANK SIZE (GAL)	SUPPLY TEMP. (°F)	VOLTAGE / PHASE	NOTES
WH-1	HTP	PH100-80	TANK	23" DIA x 72" H X 34" W	NATURAL GAS	100,000	100	189	80	125	120/1	(2)(3)

- ACCEPTABLE MANUFACTURERS: A.O. SMITH, LOCHINVAR, AERCO BY WATTS.

(1) RECOVERY BASED ON 100°F TEMPERATURE RISE.

(2) PROVIDE WITH CONCENTRIC VENT KIT.

(3) PROVIDE CONDENSATE DRAIN WITH NEUTRALIZER KIT PRIOR TO DISCHARGING TO SANITARY DRAINAGE SYSTEM.

(5) STAINLESS STEEL HEAT EXCHANGER

WELDING GAS TERMINATION SCHEDULE

TAG	MANUFACTURER	MODEL	TYPE	APPLICATION	SIZE	MAX. INLET (PSIG)	MAX. OUTLET (PSIG)	QUICK DISCONNECT	MOUNT. HEIGHT A.F.F.	NOTES
WGT-1	VICTOR	0781-3609	FLOWMETER / REGULATOR	ARGON, CARBON DIOXIDE	1/2"	3,000	25	FEMALE 5/8"	48"	(1)
WGT-2	VICTOR	0781-5281	FLOWMETER / REGULATOR	ARGON, CARBON DIOXIDE	1/2"	3,000	80	FEMALE 5/8"	48"	(1)

- ACCEPTABLE MANUFACTURERS: MILLER, VICTOR

(1) BRASS BODY

BRAY ARCHITECTS
Milwaukee
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ELECTRICAL SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST - NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

ELECTRICAL DISTRIBUTION EQUIPMENT

- UTILITY TRANSFORMER
- UTILITY TRANSFORMER
- CT CABINET AND METER SOCKET
- GSAP — GENERATOR ANNUNCIATOR PANEL FLUSH OR SURFACE
- PANEL - NEW SURFACE MOUNTED; TAG = "XX"
- PANEL - NEW FLUSH MOUNTED; TAG = "XX"
- PANEL - EXISTING SURFACE MOUNTED; TAG = "XX"
- PANEL - EXISTING FLUSH MOUNTED; TAG = "XX"
- TRANSFORMER - FLOOR MOUNT; TAG = "T-XX"
- TRANSFORMER - WALL MOUNT; TAG = "T-XX"
- TRANSFER SWITCH; TAGS = "ATS-XXX-Y", "MTS-XXX-Y"
  TAGS XXX, 700=EMERGENCY SYSTEM
  701=LEGALLY REQUIRED STANDBY SYSTEM
  702=OPTIONAL STANDBY SYSTEM
  TAG Y=SYSTEM NUMBER
- SURGE PROTECTION DEVICE; TAG = SPD
  CONTACTOR ENCLOSURE PANEL; TAG = CX
  X = CONTACTOR NUMBER

MOTOR CONTROL

- X — HEAVY DUTY DISCONNECT; TAG XX, WP=WEATHERPROOF, F=FUSIBLE
- NON-COMBINATION STARTER
- COMBINATION STARTER
- MS — MANUAL STARTER
- X — MOTOR OUTLET TERMINAL, ON ROOF MOUNTED UNITS PROVIDE WEATHER PROOF DISCONNECTS. X = HORSE POWER OR MOTOR NUMBER IF SCHEDULE IS PROVIDED

WIRING DEVICES

SWITCHES

- SX — SINGLE POLE SWITCH; TAG X, 3=3 WAY, 4=4 WAY, D=DIMMER, I=ILLUMINATED, K=KEYED, M=MOTION SENSOR SWITCH, P=PILOT, R=RELAY, WP=WEATHERPROOF, LVX=LOW VOLTAGE, TAG X = INDICATES NUMBER OF BUTTONS AT EACH SWITCH LOCATION
- $X — SWITCH TO BE DEMOLISHED, X = ABBREVIATIONS ABOVE
- SINGLE PUSH BUTTON - ADA DOOR BUTTON
  ADDITIONAL FUNCTIONALITY DEFINED ON PLANS
- UP/DN PUSH BUTTON
- MULTI PUSH BUTTON

RECEPTACLES

NO TAG=STANDARD RECEPTACLE, TAGS X, ARC=ARC FAULT RATED, CM=CEILING MOUNTED, CW=CLOTHES WASHER, D=EXTRA DEEP, DW=DISH WASHER, EWC=ELECTRIC WATER COOLER, FM=FLOOR MOUNTED, FR=FREEZER, HG=HOSPITAL GRADE, GD=GARBAGE DISPOSER, GFI=GROUND FAULT INTERRUPTER, GR=GAS RANGE, ICE=ICE MACHINE, IG=ISOLATED GROUND, MIC=MICROWAVE, REF=REFRIGERATOR, SP=SURGE PROTECTED, UCREF=UNDER COUNTER REFRIGERATOR, DEVICE, UPS=UNINTERRUPTED POWER SUPPLY, USB=UNIVERSAL SERIAL BUS, VM=VENDING MACHINE, WP/GFI=WEATHER PROOF/GROUND FAULT INTERRUPTER

- X — RECEPTACLE - SINGLE OR SIMPLEX
- X — RECEPTACLE - DUPLEX
  LINE INDICATES DEVICE MOUNTED AT 42" TO CENTER. NO LINE INDICATES DEVICE MOUNTED AT STANDARD HEIGHT UNLESS TAGGED OTHERWISE, TYPICAL ALL RECEPTACLE TYPES AND BLANK BOXES
- XX — RECEPTACLE - TAG XX, CD=CLOTHES DRYER (NEMA14-30R) ER=ELECTRIC RANGE (NEMA14-50R), K=KILN W=WELDER (NEMA 6-50R)
- X — RECEPTACLE - DUPLEX MOUNTED ABOVE COUNTER
- X — RECEPTACLE - DUPLEX WITH TOP HALF SWITCHED
- X — RECEPTACLE - DOUBLE DUPLEX
- X — RECEPTACLE - DUPLEX TRIPLE
- X — RECEPTACLE - DUPLEX QUAD
- X — BLANK OUTLET FOR FUTURE DEVICES 4" BOX, SINGLE GANG RING, BLANKPLATE, 1"C. STUBBED INTO ACCESSIBLE CEILING

WIRING DEVICES

MISCELLANEOUS

- SURFACE RACEWAY
  EQUIPMENT CONNECTION
- X — SPECIAL OUTLET, TAG = NUMBER ON SCHEDULE
- H — ELECTRIC HAND/HAIR DRYER
- X — DUAL SERVICE FLOOR BOX, TAG = TYPE IN SPECS
- X — SINGLE SERVICE FLOOR BOX, TAG = TYPE IN SPECS
- X — POKE THROUGH FLOOR BOX, TAG = TYPE IN SPECS
- CD — CORD DROP
- CR — CORD REEL
- LB — 90° CONDUIT BODY - THROUGH WALL
- LR — 90° CONDUIT BODY - TURN RIGHT
- LL — 90° CONDUIT BODY - TURN LEFT
- X EV — ELECTRIC VEHICLE CHARGING STATION, SEE PLANS FOR TYPES
- X RV — RECREATIONAL VEHICLE CHARGING STATION, SEE PLANS FOR TYPES
- X SP — MARINA SHORE POWER STATION, SEE PLANS FOR TYPES
- PP — POWER POLE - CEILING DOWN TO FLOOR
- J — J-BOX
- CONDUIT STUB THROUGH WALL BUSHED EACH END
- CABLE TRAY

LIGHTING

FIXTURES

- X — LIGHT FIXTURE - POLE MOUNTED;
  TAG = TYPE IN FIXTURE SCHEDULE
- X — LIGHT FIXTURE - CEILING MOUNTED FLUSH OR SURFACE;
  TAG = TYPE IN FIXTURE SCHEDULE
- X — WALL MOUNTED - FLUSH OR SURFACE;
  TAG = TYPE IN FIXTURE SCHEDULE
- X — LIGHT FIXTURE - FLUSH OR SURFACE;
  TAG = TYPE IN FIXTURE SCHEDULE
- EMERGENCY BATTERY UNIT LIGHT - WALL MOUNTED
- EMERGENCY BATTERY UNIT LIGHT - CEILING MOUNTED
- REMOTE EMERGENCY LIGHT

EXITS

- EXIT LIGHT - ONE FACE
  LINES REPRESENT WALL MOUNTED. NO LINES REPRESENT CEILING MOUNTED, TYPICAL ALL EXITS
- EXIT LIGHT - ONE FACE WITH EMERGENCY HEADS
  ARROWS INDICATE DIRECTION TO EXIT
- EXIT LIGHT - TWO FACE

SENSORS

PROVIDE RECOMMENDED SENSORS BY LIGHTING CONTROL SUPPLIER

- DUAL TECHNOLOGY OCCUPANCY SENSOR
  LINES REPRESENT WALL MOUNTED. NO LINES REPRESENT CEILING MOUNTED, TYPICAL ALL SENSORS
- MULTI DIRECTION DUAL TECHNOLOGY OCCUPANCY SENSOR
- U — ULTRASONIC OCCUPANCY SENSOR
- L — LONG THROW OCCUPANCY SENSOR
- HB — HIGH BAY OCCUPANCY SENSOR
- PC — PHOTOCELL
- DA — DAYLIGHT SENSOR

FIRE ALARM PANELS & FIRE ALARM SUPPORT ITEMS

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL, FLUSH OR SURFACE
- FAPS — FIRE ALARM POWER SUPPLY
- FACC — FIRE ALARM COMMAND CENTER WITH MICROPHONE
- FM — FIRE ALARM MICROPHONE ENCLOSURE, FLUSH OR SURFACE
- RTS — REMOTE TEST SWITCH

NOTIFICATION APPLIANCE

TAGS X=CANDELA LEVEL, EX=EXPLOSION PROOF, WP=WATERPROOF

- X — WALL MOUNTED AUDIO (HORN) / VISUAL NOTIFICATION APPLIANCE
- X — WALL MOUNTED AUDIO (VOICE) / VISUAL NOTIFICATION APPLIANCE
- WALL MOUNTED FIRE ALARM SPEAKER
- S X — WALL MOUNTED VISUAL NOTIFICATION APPLIANCE
- X — CEILING MOUNTED AUDIO (HORN) / VISUAL NOTIFICATION APPLIANCE
- X — CEILING MOUNTED AUDIO (VOICE) /VISUAL NOTIFICATION APPLIANCE
- CEILING MOUNTED FIRE ALARM SPEAKER
- S X — CEILING MOUNTED VISUAL NOTIFICATION APPLIANCE
- F — WALL MOUNTED AUDIO (HORN) NOTIFICATION APPLIANCE
- B — WALL MOUNTED BELL
- MH — MAGNETIC DOOR HOLDER
- EH — ELECTRIC DOOR HOLDER
- CM — ADDRESSABLE CONTROL MODULE

FIRE ALARM

INITIATION DEVICE

- XX F — MANUAL PULL STATION; TAG XX, LC=LEXAN COVER, EX=EXPLOSION PROOF, WP=WEATHERPROOF
- G — GAS DETECTOR
- H — HEAT DETECTOR
- S — SMOKE DETECTOR
- S — SMOKE DETECTOR WITH SOUNDER BASE
- DS — DUCT SMOKE DETECTOR
- ES — ELEVATOR SMOKE DETECTOR
- CM — CARBON MONOXIDE DETECTOR
- FS — SPRINKLER FLOW SWITCH
- PS — SPRINKLER PRESSURE SWITCH
- TS — SPRINKLER TAMPER SWITCH
- ADDRESSABLE MONITOR MODULE

COMMUNICATION

DATA RACKS

TAGS, TC#X = TELECOMMUNICATION CLOSET NUMBER

- DATA RACK - OPEN FRAME 2 POST FLOOR MOUNTED
- DATA RACK - OPEN FRAME 4 POST FLOOR MOUNTED
- DATA RACK - OPEN FRAME WALL MOUNTED
- DATA RACK - ENCLOSED WALL MOUNTED
- GROUND BAR

DATA / IP PHONE, WAP & TELEPHONE DEVICES

TAGS X, NO TAG=SINGLE DROP, NUMBER INDICATES NUMBER OF DROPS IN EACH LOCATION, A=ATTENDANCE SCANNER, C=IP SECURITY CAMERA, K=KEYLESS ENTRY, USB=UNIVERSAL SERIAL BUS, V=VAPE SENSOR, W=WALL PHONE, PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.

- X — DATA / IP PHONE OUTLET (STANDARD HEIGHT)
- X — DATA / IP PHONE OUTLET (MOUNTED AT 42" TO CENTER)
- WAP X — WIRELESS ACCESS POINT DATA OUTLET
- CDF X — COILED DATA FOR FUTURE USE
- X X — DATA / TELEPHONE OUTLET (STANDARD HEIGHT)
- X X — DATA / TELEPHONE OUTLET (MOUNTED AT 42" TO CENTER)
- X — TELEPHONE OUTLET (STANDARD HEIGHT)
- X — TELEPHONE OUTLET (MOUNTED AT 42" TO CENTER)

SOUND SYSTEM INPUTS PAGING/INTERCOM SYSTEM

TAGS XX, NO TAG=GENERAL PUBLIC ANNOUNCEMENTS, AS=AUDITORIUM, CL=CLASSROOM, CS=CAFETERIA, FH=FIELD HOUSE, FS=FITNESS, GS=GYM, IP=INFRASTRUCTURE, MP=MULTI-PURPOSE, PS=POOL, WS=WEIGHT ROOM

- XX A — AUXILIARY/INPUT SOUND JACK
- XX M — MICROPHONE OUTLET
- XX MC — ADMINISTRATION STATION SEE SOUND SYSTEM RISER
- XX V — VOLUME CONTROL
- C — WALL MOUNTED CALL-IN SWITCH BOX OR HANDSET

SPEAKERS

TAGS XX, NO TAG=GENERAL PUBLIC ANNOUNCEMENTS, AS=AUDITORIUM, CL=CLASSROOM, CS=CAFETERIA, FH=FIELD HOUSE, FS=FITNESS, GS=GYM, IP=INFRASTRUCTURE, MP=MULTI-PURPOSE, PS=POOL, WS=WEIGHT ROOM, WP=WEATHER PROOF

- XX W — SPEAKER - WALL RECESSED MOUNTED
- XX W — SPEAKER - WALL SURFACE MOUNTED WITH METAL ENCLOSURE
- XX W — SPEAKER - WALL SURFACE MOUNTED - TWO SIDED
- XX W — SPEAKER - WALL BRACKET MOUNTED
- XX H — SPEAKER HORN - WALL SURFACE MOUNTED
- XX C — SPEAKER - CEILING RECESSED MOUNTED
- XX C — SPEAKER - CEILING SURFACE MOUNTED WITH METAL ENCLOSURE
- XX C — SPEAKER - CEILING SURFACE MOUNTED WITH METAL ENCLOSURE - TWO SIDED
- XX P — SPEAKER - PENDANT MOUNTED
- XX P — SPEAKER - PENDANT MOUNTED - TWO SIDED
- XX — SPEAKER LOUD - SUSPENDED

PUBLIC ANNOUNCEMENT INDICATION DEVICE

- S — PUBLIC ANNOUNCEMENT INDICATION STROBE LIGHT - WALL MOUNTED
- S — PUBLIC ANNOUNCEMENT INDICATION STROBE LIGHT - CEILING MOUNTED

COMMUNICATION

CLOCKS

TAGS XX, NO TAG=ANALOG, DI=DIGITAL, DS=DIGITAL W/ DATA & W/SPEAKER, DSF=DIGITAL W/SPEAKER & FLASHER, DV=DIGITAL VIDEO DISPLAY WITH DATA, IP=INFRASTRUCTURE SYNCHRONIZED TIMEKEEPING SYSTEM VIA NETWORK TIME PROTOCOL WG=WIRE GUARD

- XX — CLOCK - WALL MOUNTED - SINGLE FACE
- XX — CLOCK - WALL MOUNTED - TWO FACE
- XX — CLOCK - CEILING SURFACE MOUNTED - TWO FACE
- WG — CLOCK / SPEAKER BAFFLE - COMBINATION

TECHNOLOGY

- D — HDMI OUTLET
- TV — COAX OUTLET
- CEILING MOUNTED PROJECTOR PLATE
- P — MEDIA DELIVERY INPUT
- PP — MEDIA DELIVERY LOCATION

MISCELLANEOUS

- ARS — AREA OF REFUGE (CALL BOX) / TWO-WAY COMMUNICATION SYSTEM
- ARM — AREA OF REFUGE MASTER (BASE STATION) / TWO-WAY COMMUNICATION SYSTEM
- TWC — TWO-WAY COMMUNICATION (CALL BOX)
- TWCM — TWO-WAY COMMUNICATION MASTER (BASE STATION)

SECURITY

DOOR CONTROL

- AI — 2 WAY INTERCOM SYSTEM DOOR STATION
- AM — 2 WAY INTERCOM SYSTEM MASTER STATION
- AO — AUTOMATIC DOOR OPENER
- CA — COMBINATION CARD READER AND KEY PAD
- CR — CARD READER
- DB — DURESS BUTTON
- DC — DOOR POSITION SWITCH CONTACT
- DP — DOOR POSITION SWITCH
- EL — ELECTRIC TRIM LATCH
- ES — ELECTRIC DOOR STRIKE
- GB — GLASS BREAK SENSOR
- KP — KEY PAD
- LS — LIMIT SWITCH
- M — SECURITY SYSTEM MOTION DETECTOR CEILING MOUNTED 360°
- M — SECURITY SYSTEM MOTION DETECTOR - WALL MOUNTED
- ML — MAGNETIC LOCK
- P — PANIC PULL STATION
- RX — REQUEST TO EXIT
- SS — SECURITY STROBE
- SINGLE PUSH BUTTON - FUNCTIONALITY DEFINED ON PLANS

CAMERAS

- SECURITY CAMERA - DIRECTIONAL
  LINES REPRESENT WALL OR POLE MOUNTED NO LINES REPRESENT CEILING MOUNTED (TYPICAL)
- SECURITY CAMERA - 90°
- SECURITY CAMERA - 180°
- SECURITY CAMERA - 270°
- SECURITY CAMERA - 360°

HEALTHCARE

- NH — NURSE CALL LIGHT
- N — NURSE CALL BEDSIDE STATION
- NS — NURSE CALL STAFF ACKNOWLEDGE
- NS — NURSE CALL CONTROL ROOM STATION
- NCPS — NURSE CALL POWER SUPPLY

GENERAL

ANNOTATION SYMBOLS

- X — REFERS TO PLAN NOTE NUMBER
- XXX — SPECIALTY EQUIPMENT REFERENCE TAG
- XX / XXX — DETAIL NUMBER / SHEET NO. WHERE DETAIL IS LOCATED

LINE LEGEND

- CIRCUIT HOMERUN TO 20A/1P BREAKER UNLESS SHOWN OTHERWISE ON DRAWINGS.
- INDICATES ITEMS CONNECTED TO SAME CIRCUIT BUT CONTROLLED SEPARATELY
- INDICATES ITEMS CONNECTED TO SAME CIRCUIT AND CONTROLLED TOGETHER

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CCU	COOLING CONDENSER UNIT
CKT	CIRCUIT
CM	CEILING MOUNTED
CT	CURRENT TRANSFORMER
CON	CONTACTOR
CP	CONTROL PANEL
CUH	CABINET UNIT HEATER
DIS	DISCONNECT
DM	DEMARC
EB	EXISTNG BREAKER TO REMAIN UNLESS NOTED OTHERWISE
EBB	ELECTRICAL BASE BOARD
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EL	ELEVATION
EM	EMERGENCY
EQ	EQUIPMENT
EOL	END OF LINE RESISTOR
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
EX	EXPLOSION PROOF
F	FUSIBLE PROOF
FBO	FURNISHED BY OTHERS
FC	VARIABLE SPEED FAN CONTROL SWITCH
FR	FREEZER
FSD	FIRE SMOKE DAMPER
GC	GENERAL CONTRACTOR
(GFI)	GROUND FAULT INTERRUPTER BREAKER LOCATED IN ELECTRICAL PANEL
GND	GROUND
GSP	GYM SWITCH PANEL
GUH	GAS UNIT HEATER
HF	HEAT FAN
HP	HORSE POWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
MAU	MAKEUP AIR UNIT
MB	MOTORIZED BACKBOARD
MC	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHD	OVERHEAD DOOR
OC	ON CENTER
PDB	PUNCH DOWN BLOCK
PNL	PANELBOARD
PS	POWER SUPPLY
RCP	RELAY CONTROL PANEL
RTU	ROOF TOP UNIT
SAP	SECURITY ANNUNCIATOR PANEL
SCP	SECURITY CONTROL PANEL
SD	SMOKE DAMPER
SJB	SOUND SYSTEM JUNCTION BOX
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SV	SOLENOID VALVE
TC	TELECOMMUNICATION CLOSET
TCP	TEMPERATURE CONTROL PANEL
TGB	TELECOMMUNICATION GROUND BAR MASTER
TJB	TERMINAL JUNCTION BOX
TRN	TRANSFORMER
TRS	TRANSFER SWITCH
TTB	TELEPHONE TERMINAL BOARD
UC	UNDERCOUNTER
UPS	UNINTERRUPTED POWER SUPPLY
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
W	WELDER
WE	WALL EXHAUST
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHER PROOF
WP/GFI	WEATHER PROOF / GROUND FAULT INTERRUPTER
XP	CLASS 1, DIV. 1 EQUIPMENT

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E0.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.0S	SITE PLAN - ELECTRICAL DEMOLITION
E0.1B	UNIT B - FIRST FLOOR DEMO PLAN
E0.1F	UNIT F - FIRST FLOOR DEMO PLAN
E0.1G	UNIT G - FIRST FLOOR DEMO PLAN
E1.0S	SITE PLAN - ELECTRICAL
E1.1BL	UNIT B - FIRST FLOOR PLAN - LIGHTING
E1.1BP	UNIT B - FIRST FLOOR PLAN - POWER
E1.1FL	UNIT F - FIRST FLOOR PLAN - LIGHTING
E1.1FP	UNIT F - FIRST FLOOR PLAN - POWER
E1.1G	UNIT G - FIRST FLOOR PLAN - ELECTRICAL
E1.2F	UNIT F - MEZZANINE FLOOR PLANS
E2.0	ENLARGED KITCHEN PLAN
E2.1	ENLARGED KITCHEN PLAN SCHEDULE
E3.0	OVERALL FIRST FLOOR - FIRE ALARM
E3.1	FIRE ALARM DETAILS
E4.0	OVERALL SECURITY FLOOR PLANS
E4.1	OVERALL FIRST FLOOR - HVAC/ PLUMBING ELECTRICAL
E5.0	ONE LINE DIAGRAM & SCHEDULES
E5.1	DETAILS
E5.2	DETAILS
E5.3	DATA ROUTING PLANS
E5.4	DATA ROUTING DETAILS
E6.0	SHOP ELECTRICAL EQUIPMENT SCHEDULES
E6.1	LIGHTING FIXTURE SCHEDULE

BRAY ARCHITECTS

Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

Sheboygan • Davenport
Moline • Saint Paul

www.brayarch.com

ENGINEERING DESIGN BY
MSA
(800) 362-4505 • www.msa-ps.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

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Project Number:
3705

Sheet Title:
ELECTRICAL SYMBOLS AND ABBREVIATIONS

Sheet Number:
E0.0

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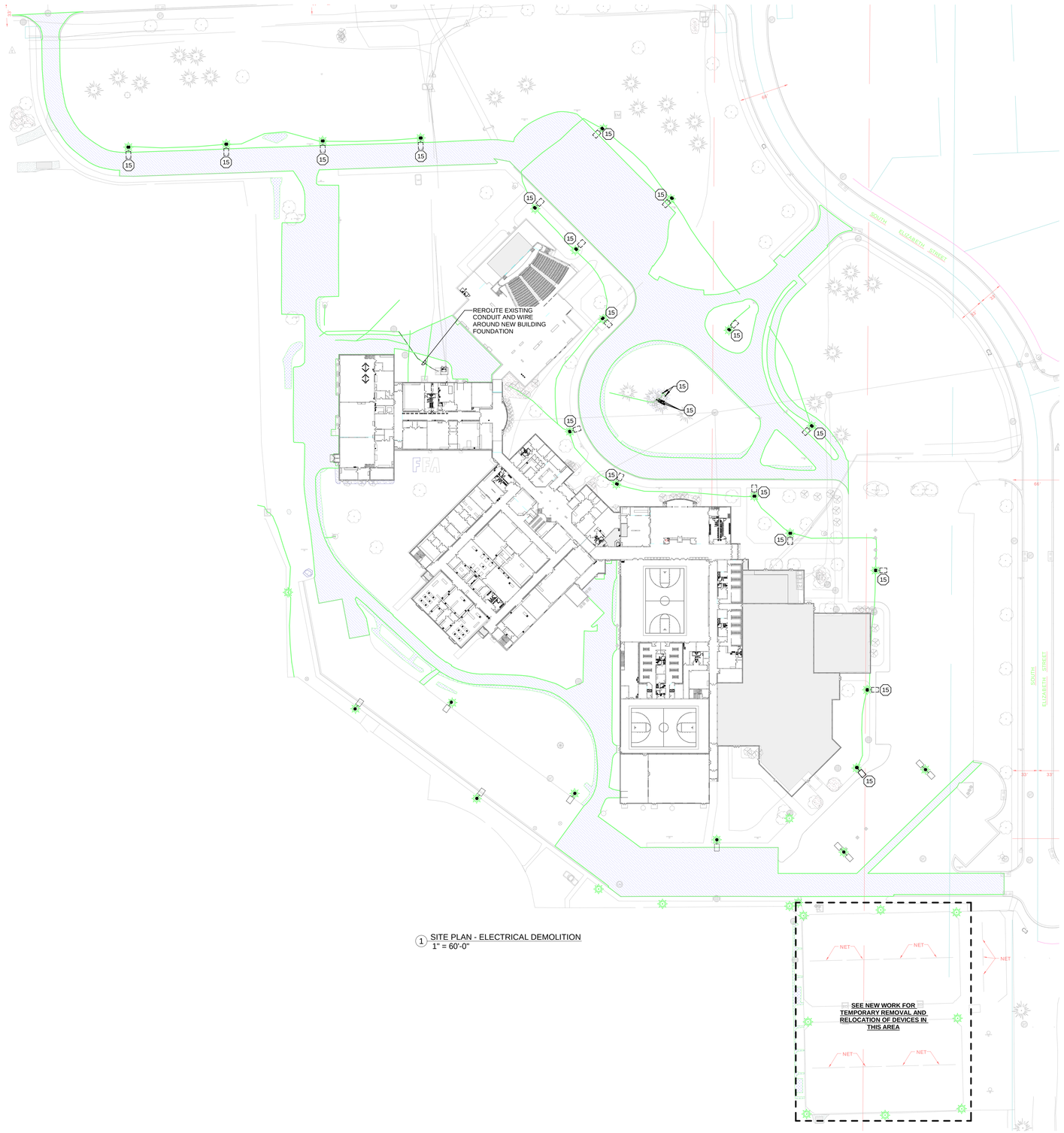

1 SITE PLAN - ELECTRICAL DEMOLITION
1" = 60'-0"

GENERAL NOTES

1. ALL DEVICES AND EQUIPMENT SHOWN ARE EXISTING TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED.
2. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
3. VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE ESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING ONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
4. BRING SITE EXCAVATION AND TOPPING BACK TO ORIGINAL CONDITIONS WHEN ELECTRICAL WORK HAS COMPROMISED THE SITE.

PLAN NOTES (X)

15	REMOVE EXISTING LIGHTING FIXTURE, POLE, AND WIRING, CIVIL TO REMOVE POLE BASES. ABANDON EMPTY CONDUIT UNDERGROUND. REMOVE WIRE BACK TO SOURCE AND REMOVE CONDUIT AND WIRE BACK TO SOURCE WHERE ROUTED INTERIOR TO THE HIGH SCHOOL. RETAIN EXISTING BREAKERS FOR REUSE IN NEW WORK.

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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Sheet Title:
SITE PLAN - ELECTRICAL DEMOLITION

Sheet Number:
E0.0S

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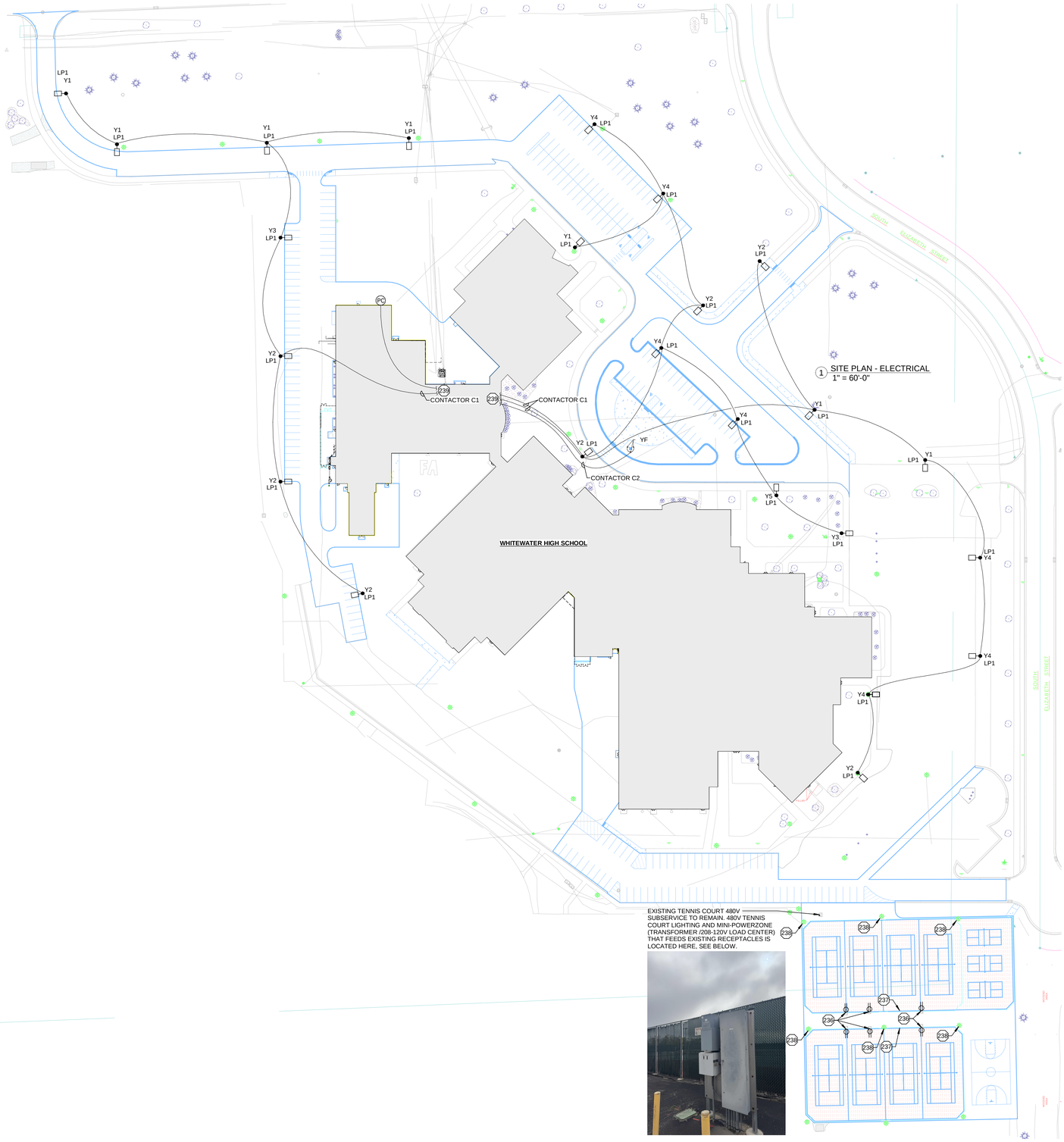


1 SITE PLAN - ELECTRICAL
1" = 60'-0"

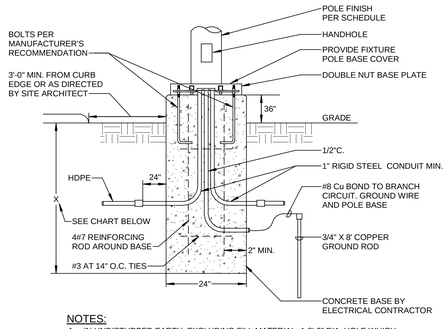
EXISTING TENNIS COURT 480V SUBSERVICE TO REMAIN. 480V TENNIS COURT LIGHTING AND MINI-POWERZONE (TRANSFORMER /208-120V LOAD CENTER) THAT FEEDS EXISTING RECEPTACLES IS LOCATED HERE, SEE BELOW.

GENERAL NOTES

1. UNLESS SHOWN OTHERWISE, ALL WIRING SHOWN IS (2)#10 AND #10 GROUND IN 1" HDPE. PROVIDE SOLID PIPE TO FIXTURES, LEAVING MINIMAL TRANSITIONS UNDERGROUND.
2. INSTALL PULL CORD IN ALL EMPTY CONDUITS.
3. PROVIDE CONCRETE BASE ROUGH-IN FOR ALL LP1 POLES PER DETAIL 2/E1.0S.
4. PROVIDE CONCRETE BASE ROUGH-IN FOR ALL YF FIXTURES PER DETAIL 3/E1.0S.
5. UNLESS SHOWN OTHERWISE, ALL CONDUITS BURIED 2'-6" BELOW FINISHED GRADE.
6. PROVIDE SITE LIGHTING CONTROL PANEL PER DETAIL 4/E5.1.
7. BRING SITE EXCAVATION AND TOPPING BACK TO ORIGINAL CONDITION IF TRENCHING IS DONE ON COMPACTED SURFACES. DIRECTIONAL BORE UNDER EXISTING SIDEWALKS.
8. ALL CONDUITS STUBBED OUT OF BUILDINGS SHALL BE DONE PER DETAIL 1/E5.1.

PLAN NOTES (X)

236	UPON EXISTING ASPHALT BEING PULVERIZED, REMOVE EXISTING OUTLETS AND BACKBOXES AND RETAIN UNDERGROUND CONDUITS AND WIRE. EXTEND THE EXISTING CIRCUITS, WIRING AND CONDUITS TO NEW RECEPTACLES (SEE ELECTRICAL OUTLET DETAILS, AND POLE BASE DETAIL FROM GC). GC TO PROVIDE POLE. PROVIDE WEATHERPROOF GFCI RECEPTACLE. COORDINATE WITH GENERAL CONTRACTOR FOR FINAL LOCATIONS. SEE DETAIL 6/E5.2 .
237	RETAIN UNDERGROUND CONDUITS AND WIRING. REMOVE BOX, BUTTON AND WARNING LIGHT AND PROVIDE NEW POLYCARBONATE NEMA 4X BOX WITH STAINLESS STEEL LOCKABLE LATCH. REINSTALL ON THE EXTERIOR OF THE PLAYING AREA OF THE TENNIS COURTS.
238	RETAIN UNDERGROUND CONDUITS AND WIRING, REMOVE. AND STORE EXISTING LIGHT POLE, CONTROLS, AND FIXTURE HEADS. NOTE ORIENTATION FOR REISTALLATION. PROVIDE CONDUIT AND THREDDED ROD EXTENSION, SEE ARCHITECHURAL DETAILS FOR EXTENDING POLE BASE 12". REINSTALL EXISTING POLES, FIXTURES AND CONTROLS TO EXTENDED POLE BASE. AIM FIXTURES AS NOTED FROM DEMOLTION.
239	EXTEND EXISTING EXTERIOR CIRCUITS HC-25,27,29,31, PROVIDE AND ROUTE THROUGH NEW PHOTOCELL/TIMECLOCK CONTROLS, SEE DETAIL 4/E5.1. PROVIDE NORTH FACING PHOTOCELL ON NEW ADDITION.

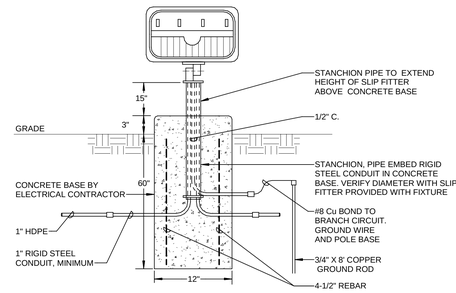


NOTES:

1. IN UNDISTURBED EARTH, EXCLUDING FILL MATERIAL, A 2'-0" DIA. HOLE WHICH SHALL BE USED AS THE FORM FOR THE CONCRETE BASE SHALL BE DRILLED.
2. IN EXCAVATED AREAS OR IN EXISTING SOIL CONTAINING FILL OF OBJECTIONABLE MATERIAL, BACKFILL AROUND CONCRETE BASE WITH COMPACTED GRANULAR BACKFILL A MIN. OF 2'-0" IN ALL DIRECTIONS.

POLE HEIGHT IN FEET	BASE DEPTH IN INCHES BELOW GRADE
10'-0"	X = 60" (INCHES)
15'-0"	X = 60" (INCHES)
20'-0"	X = 60" (INCHES)
25'-0"	X = 72" (INCHES)
30'-0"	X = 72" (INCHES)
35'-0"	X = 72" (INCHES)
40'-0"	X = 96" (INCHES)
45'-0"	X = 96" (INCHES)
50'-0"	X = 108" (INCHES)

2 E1.0S 36" EXTERIOR LIGHTING CONCRETE BASE DETAIL
SCALE: NTS



3 E1.0S GROUND MOUNTED FIXTURE BASE
SCALE: NTS

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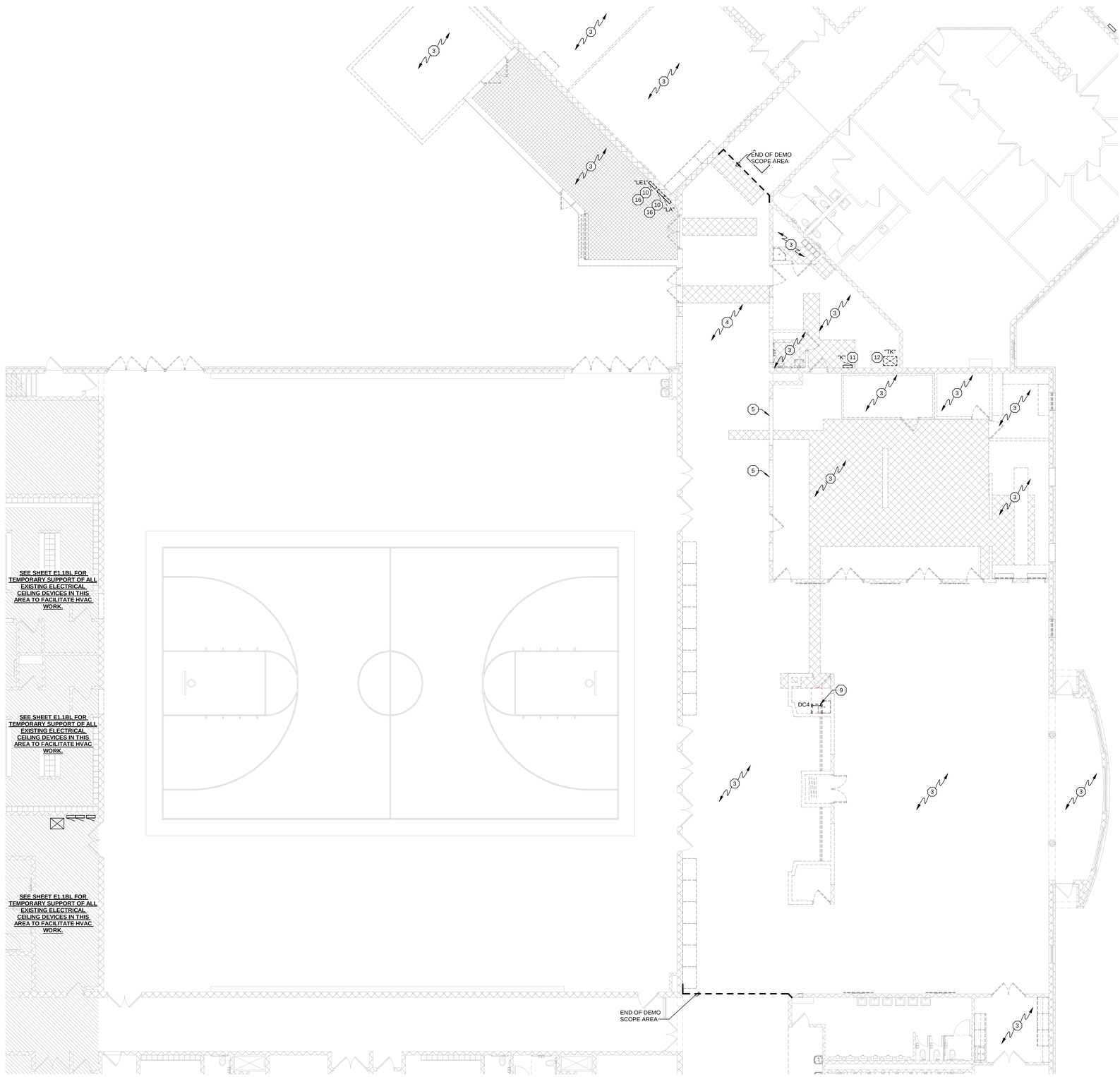


1 E0.1B FIRST FLOOR DEMO PLAN - UNIT B - ELECTRICAL

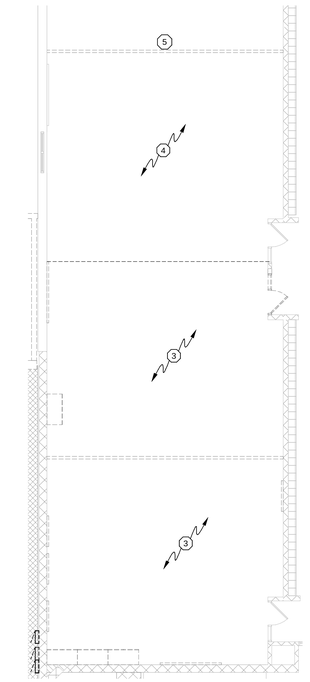
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. ALL DEVICES AND EQUIPMENT SHOWN DASHED ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
2. REMOVE ALL DEVICES AND ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END ON EXISTING WALLS AND CEILINGS SCHEDULED TO BE REMOVED. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
3. ON ALL UNUSED OPENINGS IN WALLS SCHEDULED TO REMAIN, PROVIDE BLANK STAINLESS STEEL COVERPLATE WHICH FULLY COVERS OPENING. IF THE OPENING WILL NOT ACCEPT BLANK PLATE, PATCH WALL TO MATCH EXISTING.
4. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
5. VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING CONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
6. TURN OVER ALL REMOVED LIGHT FIXTURES, LIGHT SWITCHES, AND EXIT LIGHTS TO OWNER. IF THEY DO NOT WANT THEN DISPOSE OF.
7. SEE HVAC AND PLUMBING PLANS FOR HVAC AND PLUMBING EQUIPMENT REMOVED. REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH REMOVED EQUIPMENT. RELABEL CIRCUIT BREAKER AS "SPARE" OR REMOVE IF BREAKER SPACE IS REQUIRED TO ACCOMMODATE NEW LOADS IN EXISTING PANELBOARDS.

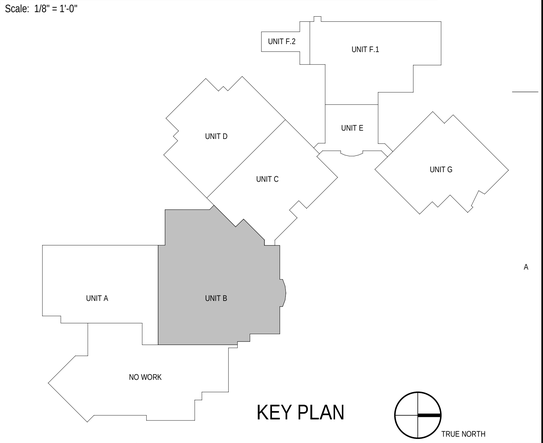
PLAN NOTES (X)

3	REMOVE ALL ELECTRICAL IN THIS AREA UNLESS NOTED OTHERWISE. SALVAGE EXISTING WIRELESS ACCESS POINTS AND CAMERAS AND RETURN TO OWNER.SALVAGE WALL MOUNTED CLOCKS WHERE PRESENT AND STORE TO BE REINSTALLED IN NEW WORK AS NEEDED. REMOVE ALL DEVICES, FIXTURES, CONTROLS, WIRING, AND CONDUIT. REMOVE EXISTING CEILING MOUNTED DEVICES. REMOVE ALL ELECTRICAL ON EXISTING WALLS SHOWN TO REMAIN. REMOVE DEVICE AND WIRING AND PROVIDE BLANK PLATE OR RE-USE FOR NEW RECEPTACLE SEE NEW WORK. ELECTRICAL TO INCLUDE ALL POWER, LIGHTING, DATA, COMMUNICATIONS, FIRE ALARM, AND KEYLESS ENTRY DEVICES AND EQUIPMENT.
4	REMOVE AND SITE CLEAR EXISTING LIGHT FIXTURES, SWITCHES AND CONTROLS. EXISTING LIGHTING CIRCUIT TO REMAIN TO BE REUSED. EXISTING CEILING MOUNTED DEVICES TO BE REMOVED, SALVAGED, AND REINSTALLED INTO NEW CEILINGS UNLESS OTHERWISE NOTED. IF NEW SWITCHES ARE NOT SHOWN IN EXISTING LOCATION, PROVIDE BLANK PLATE OVER EXISTING OPENING.
5	REMOVE ALL EXISTING DEVICES, WIRING, AND RACEWAY FROM THIS WALL SCHEDULE TO BE DEMOLISHED UNLESS SPECIFICALLY NOTED AS EXISTING TO REMAIN. SALVAGE EXTERIOR CAMERAS ON THIS WALL AND RETURN TO OWNER IN NEW WORK AND PROVIDE NEW AS NECESSARY.
9	SALVAGE EXISTING DATA RACK AND ALL COMPONENTS. EXTEND FIBER AND DATA CABLE TO NEW LOCATION IN AREA B.
10	DISCONNECT AND REMOVE EXISTING PANEL, PANEL HOUSING, CIRCUIT BREAKERS, AND INCOMING FEEDER WIRING. EXISTING FEEDER CONDUIT AND EXISTING BRANCH CIRCUITS TO REMAIN AND TO BE EXTENDED TO NEW PANEL LOCATION CONCEALED IN NEW WALL CONSTRUTION, SEE NEW WORK.
11	DISCONNECT AND REMOVE EXISTING PANEL, PANEL HOUSING, CIRCUIT BREAKERS, AND INCOMING FEEDER WIRING.
12	DISCONNECT AND REMOVE EXISTING TRANSFORMER, INCOMING FEEDER WIRING. EXTEND EXISTING PRIMARY CONDUIT TO NEW "TK" LOCATION IN NEW ADDITION, SEE NEW WORK.
16	COORDINATE WITH CONSTRUCTION MANAGER TO KEEP EXISTING KITCHEN OPERATIONAL WHILE WORK COMMENCES. SURROUNDING STRUCTURE IS TO BE DEMOLISHED BEFORE PANELBOARDS. PROVIDE WEATHER-TIGHT ENCLOSURE FOR PANELBOARDS AS NEEDED.



2 E0.1B FIRST FLOOR DEMO PLAN - UNIT C - ELECTRICAL

Scale: 1/8" = 1'-0"



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Milwaukee
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1 E0.1F FIRST FLOOR DEMO PLAN - UNIT F - ELECTRICAL

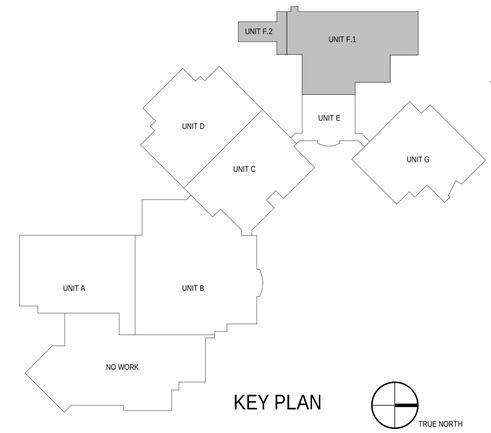
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. ALL DEVICES AND EQUIPMENT SHOWN DASHED ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
2. REMOVE ALL DEVICES AND ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END ON EXISTING WALLS AND CEILINGS SCHEDULED TO BE REMOVED. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
3. ON ALL UNUSED OPENINGS IN WALLS SCHEDULED TO REMAIN, PROVIDE BLANK STAINLESS STEEL COVERPLATE WHICH FULLY COVERS OPENING. IF THE OPENING WILL NOT ACCEPT BLANK PLATE, PATCH WALL TO MATCH EXISTING.
4. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
5. VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING CONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
6. TURN OVER ALL REMOVED LIGHT FIXTURES, LIGHT SWITCHES, AND EXIT LIGHTS TO OWNER. IF THEY DO NOT WANT THEN DISPOSE OF.
7. SEE HVAC AND PLUMBING PLANS FOR HVAC AND PLUMBING EQUIPMENT REMOVED. REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH REMOVED EQUIPMENT. RELABEL CIRCUIT BREAKER AS "SPARE" OR REMOVE IF BREAKER SPACE IS REQUIRED TO ACCOMMODATE NEW LOADS IN EXISTING PANELBOARDS.

PLAN NOTES (X)

2	REMOVE EXISTING FIRE ALARM CONTROL PANEL. REPLACE WITH NEW IN SAME LOCATION.
3	REMOVE ALL ELECTRICAL IN THIS AREA UNLESS NOTED OTHERWISE. SALVAGE EXISTING WIRELESS ACCESS POINTS AND CAMERAS AND RETURN TO OWNER.SALVAGE WALL MOUNTED CLOCKS WHERE PRESENT AND STORE TO BE REINSTALLED IN NEW WORK AS NEEDED. REMOVE ALL DEVICES, FIXTURES, CONTROLS, WIRING, AND CONDUIT. REMOVE EXISTING CEILING MOUNTED DEVICES. REMOVE ALL ELECTRICAL ON EXISTING WALLS SHOWN TO REMAIN. REMOVE DEVICE AND WIRING AND PROVIDE BLANK PLATE OR RE-USE FOR NEW RECEPTACLE SEE NEW WORK. ELECTRICAL TO INCLUDE ALL POWER, LIGHTING, DATA, COMMUNICATIONS, FIRE ALARM, AND KEYLESS ENTRY DEVICES AND EQUIPMENT.
4	REMOVE AND SITE CLEAR EXISTING LIGHT FIXTURES, SWITCHES AND CONTROLS. EXISTING LIGHTING CIRCUIT TO REMAIN TO BE REUSED. EXISTING CEILING MOUNTED DEVICES TO BE REMOVED, SALVAGED, AND REINSTALLED INTO NEW CEILINGS UNLESS OTHERWISE NOTED. IF NEW SWITCHES ARE NOT SHOWN IN EXISTING LOCATION, PROVIDE BLANK PLATE OVER EXISTING OPENING.
14	SALVAGE EXISTING DATA RACK AND ALL COMPONENTS. PULL WIRE BACK AND REFEED EXISTING DATA CABLING, AND REINSTALL ALL COMPONENTS FROM DC2 TO NEW LOCATION IN AREA F. FIBER AND DATA CABLE TO NEW LOCATION IN AREA F.



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Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200
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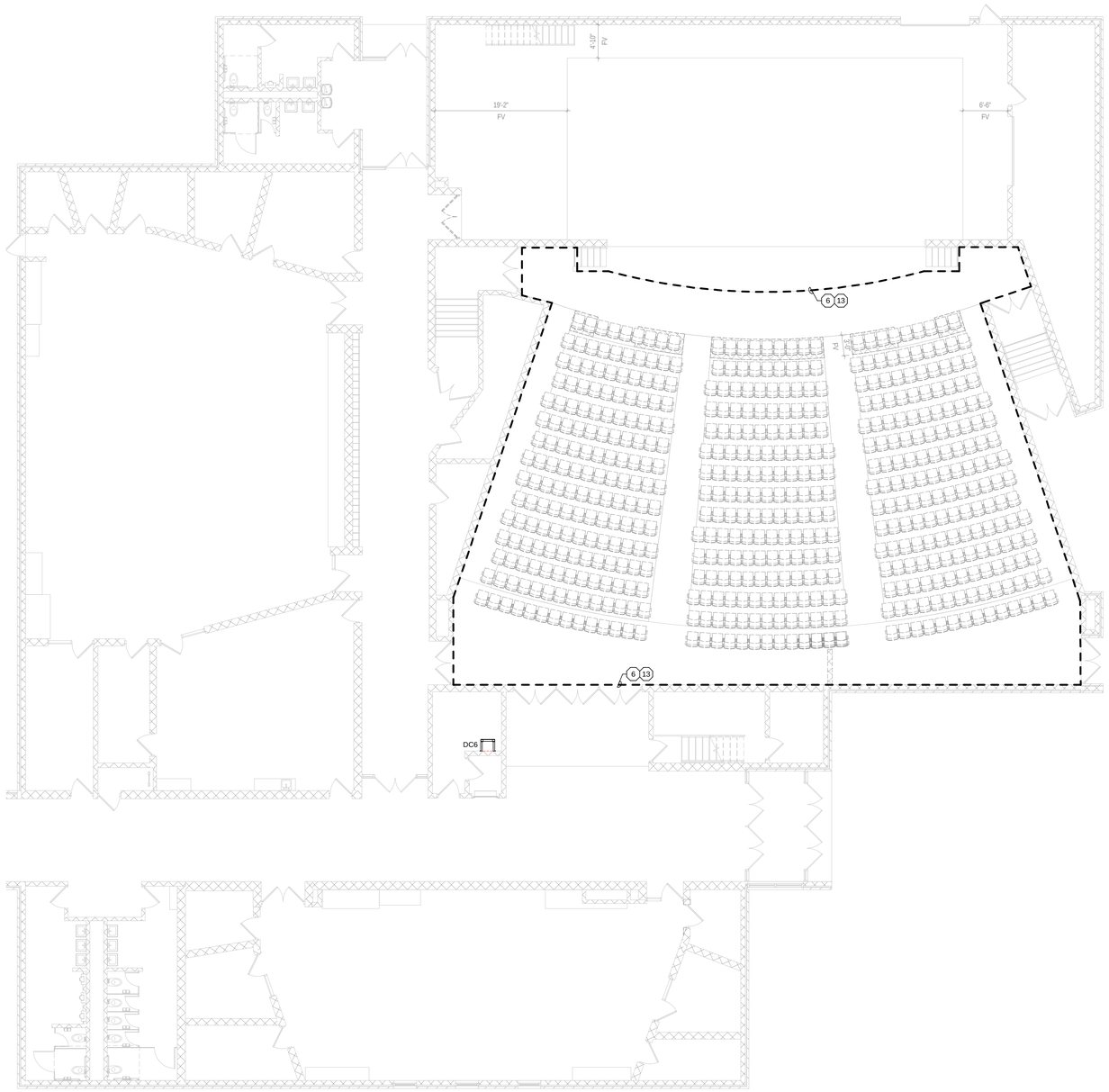

1 E0.1G FIRST FLOOR DEMO PLAN - UNIT G - ELECTRICAL
Scale: 1/8" = 1'-0"

GENERAL NOTES

1. ALL DEVICES AND EQUIPMENT SHOWN DASHED ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED OTHERWISE. SEE PLAN NOTES FOR SPECIFIC WORK REQUIRED. REMOVE ASSOCIATED WIRING AND CONDUIT BACK TO PANEL OR HEAD END. RE-FEED ANY DEVICES ON SAME CIRCUIT SCHEDULED TO REMAIN.
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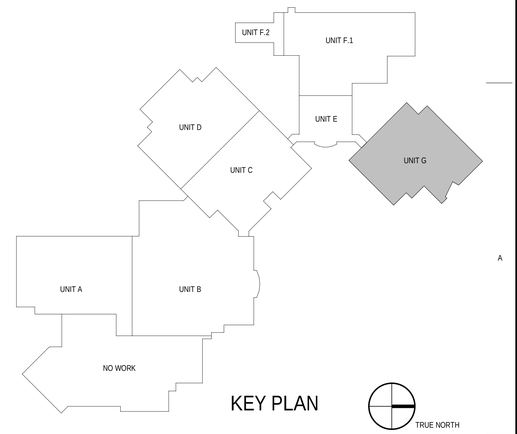
3. ON ALL UNUSED OPENINGS IN WALLS SCHEDULED TO REMAIN, PROVIDE BLANK STAINLESS STEEL COVERPLATE WHICH FULLY COVERS OPENING. IF THE OPENING WILL NOT ACCEPT BLANK PLATE, PATCH WALL TO MATCH EXISTING.
4. DEVICES AND EQUIPMENT SHOWN ON DRAWINGS ARE NOT ALL INCLUSIVE. EVALUATE EXISTING CONDITIONS AND REMOVE ALL ELECTRICAL EQUIPMENT AND DEVICES AS NEEDED TO ACCOMMODATE DEMOLITION OF EXISTING AREAS.
5. VISIT THE PREMISES AND TAKE NOTE OF ALL EXISTING CONDITIONS WHICH MAY AFFECT WORK AND BE RESPONSIBLE FOR KNOWLEDGE OF SAME IN PREPARATION OF BID. LACK OF INFORMATION ON EXISTING CONDITIONS WILL NOT BE ALLOWED AS A VALID CAUSE FOR ADDITIONAL COMPENSATION.
6. TURN OVER ALL REMOVED LIGHT FIXTURES, LIGHT SWITCHES, AND EXIT LIGHTS TO OWNER. IF THEY DO NOT WANT THEN DISPOSE OF.
7. SEE HVAC AND PLUMBING PLANS FOR HVAC AND PLUMBING EQUIPMENT REMOVED. REMOVE ALL EXISTING ELECTRICAL ASSOCIATED WITH REMOVED EQUIPMENT. RELABEL CIRCUIT BREAKER AS "SPARE" OR REMOVE IF BREAKER SPACE IS REQUIRED TO ACCOMMODATE NEW LOADS IN EXISTING PANELBOARDS.

PLAN NOTES (X)	
6	SALVAGE EXISTING SEAT LIGHTING AND CONTROLS FOR REINSTALLATION WHERE SHOWN ON NEW PLAN. TURN OVER ANY REMOVED DEVICES THAT ARE NOT REINSTALLED TO OWNER.
13	REMOVE EXISTING LIGHTING FIXTURES ONLY IN THIS SPACE. EXISTING CONTROLS AND CIRCUITS TO REMAIN. REPLACE FIXTURES 1 FOR 1 IN AUDITORIUM HOUSE ONLY. SEE NEW WORK.



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Milwaukee
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Milwaukee, Wisconsin 53204
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UNIT G - FIRST FLOOR DEMO PLAN

Sheet Number:
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GENERAL NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 4/E5.1. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (▨) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 2/E5.1.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

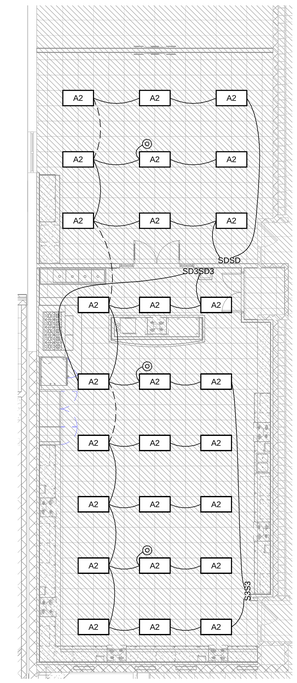
PLAN NOTES (X)

101	WIRE ALL FIXTURES IN DISPLAY CASES TO CIRCUIT AND CONTROLS SHOWN HERE. COORDINATE FINAL CONNECTIONS WITH PREFAB DISPLAY CASE SUBMITTALS.
102	PROVIDE EMERGENCY BYPASS RELAY PER DETAIL 5/E5.1
395	COORDINATE WITH HVAC CONTRACTOR TO REMOVE, STORE AND REPLACE; OR TEMPORARILY SUPPORT ANY ELECTRICAL DEVICES OR FIXTURES IN THIS CEILING AS NEEDED TO INSTALL ANY DUCTWORK, PIPING, OR HVAC EQUIPMENT.

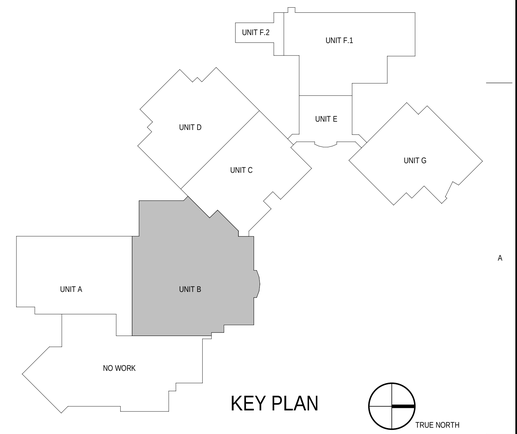


4 E1.1BL FIRST FLOOR - UNIT A - LIGHTING
Scale: 1/8" = 1'-0"

1 E1.1BL FIRST FLOOR - UNIT B - LIGHTING
Scale: 1/8" = 1'-0"



2 E1.1BL FIRST FLOOR - UNIT C - LIGHTING
Scale: 1/8" = 1'-0"



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UNIT B - FIRST FLOOR PLAN - LIGHTING

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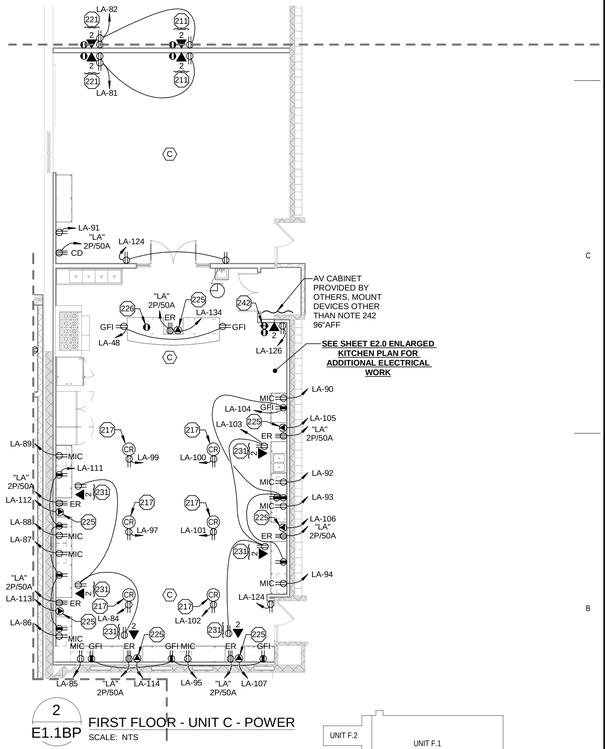
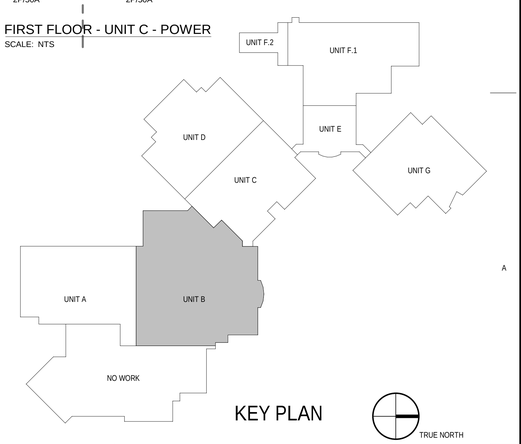
1 E1.1BP FIRST FLOOR - UNIT B - POWER
Scale: 1/8" = 1'-0"



2 E1.1BP FIRST FLOOR - UNIT C - POWER
SCALE: NTS



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GENERAL NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 8/E5.1.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 1/E5.1.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES (X)

201	PROVIDE ELECTRICAL CONNECTION TO OVERHEAD DOOR. E.C. TO MOUNT AND WIRE ALL CONTROLS, SEE DETAIL 3/E5.1
211	LOCATE DEVICES BEHIND WALL MOUNTED MEDIA DEVICE, ROUGH-IN DEVICES AT HEIGHT SHOWN ON ARCHITECTURAL ELEVATIONS. PROVIDE 2-GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING IF BLANK BOX IS SHOWN ON FLOORPLANS FOR OWNER PROVIDED CABLING.
217	PROVIDE RECESSED CORD REEL PER DETAIL 5/E5.2
221	PROVIDE DEVICES AT TEACHER DESK LOCATION. ROUGH-IN DEVICES AT 18"AFF. PROVIDE 2-GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING IF BLANK BOX IS SHOWN ON FLOORPLANS.
225	PROVIDE HARDWIRED CONNECTION TO RANGE FANS. PROVIDE MOTOR RATED SINGLE-POLE SWITCH FOR LOCAL DISCONNECT.
226	PROVIDE CEILING MOUNTED 2-GANG EXTRA DEEP FOR DEMONSTRATION CAMERA BY OTHERS.
227	PROVIDE HONEYWELL RCW110KB KIT AND INSTALL DOORBELL ON EXTERIOR WALL AND SEAL PENETRATIONS. SEE DETAILS. PROVIDE CLASS 2 WIRING FROM 16V TRANSFORMER TO THE BELL BOX. PROVIDE CONNECTION TO NEAREST 120V GENERAL RECEPTACLE CIRCUIT.
228	PROVIDE (1) 4" CONDUIT BETWEEN CLOUDS FOR LOW VOLTAGE CABLING WHERE REQUIRED, VERIFY FINAL QUANTITIES WITH ARCHITECTURAL REFLECTED CEILING PLANS. PAINT CONDUIT TO MATCH EXPOSED CEILINGS, SEE ARCHITECTURAL FOR PAINT COLOR. ALL CAFETERIA SOUND SYSTEM SPEAKERS WILL BE ROUTED THROUGH PA SYSTEM AS WELL BY AV CONTRACTOR. PROVIDE PATHWAY TO A/V RACK IN A100F FOR (CS) SPEAKERS.
229	PROVIDE (2) 4" CONDUIT BETWEEN CLOUDS FOR LOW VOLTAGE CABLING WHERE REQUIRED, VERIFY FINAL QUANTITIES WITH ARCHITECTURAL REFLECTED CEILING PLANS. PAINT CONDUIT TO MATCH EXPOSED CEILINGS, SEE ARCHITECTURAL.
230	PROVIDE CIRCUIT FOR MOTORIZED PROJECTOR SCREEN, PROVIDE 1"C LOW VOLTAGE PATHWAY BETWEEN PROJECTOR SCREEN AND CONTROLLER SUPPLIED WITH PROJECTOR MOTOR AND INSTALL CONTROLLER PER MANUFACTURERS REQUIREMENTS.
231	LOCATE DEVICES ABOVE AND BEHIND SOFFIT MOUNTED MEDIA DEVICE, ROUGH-IN AT ELEVATIONS SHOWN ON ARCHITECTURAL PLANS. PROVIDE 2 GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING
232	PROVIDE CEILING MOUNTED POWER AND DATA FOR PROJECTOR PROJECTOR MOUNT/INSTALL BY OTHERS, ROUGH IN DEVICES SHOWN HERE 19' FROM PROJECTOR SCREEN.
240	ALL DEVICES SHOWN HERE COORDINATE WITH OWNER PROVIDED A/V RACK. PROVIDE (2) 2-GANG EXTRA DEEP, (2)1"C TO ABOVE CLOUD CEILING TO EACH BOX. PROVIDE POWER AND DATA TO RACK AS SHOWN. PROVIDE AUDIO SAMPLE FROM PA SYSTEM TO BE USED BY CAFETERIA SOUND SYSTEM SPEAKERS.
242	PROVIDE 2 GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING OR TO ABOVE CEILING CLOUDS, 48"AFF.
243	COORDINATE MOUNTING HEIGHTS FOR MICROWAVES WITH CASEWORK, SEE ARCHITECTURAL ELEVATIONS.
247	REINSTALL EXISTING SALVAGED DATA RACK AND EXISTING COMPONENTS. RECONNECT ALL EXTENDED ETHERNET CABLE AND POWER CIRCUITS AND RECONNECT EXTEDNED FIBER FROM DC-1 IN AREA B ROOM B114.
250	PROVIDE SINGLE GANG EXTRA DEEP 18"AFF WITH 1"C TO ABOVE CEILING OR TO ABOVE CEILING CLOUDS FOR OWNER PROVIDED HDMI.

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UNIT B - FIRST FLOOR PLAN - POWER

Sheet Number:
E1.1BP

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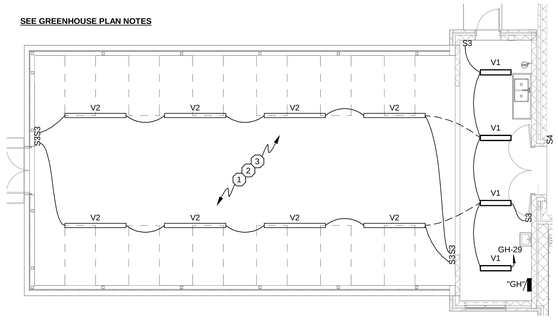
GREENHOUSE PLAN NOTES

1. ALL DEVICES, FIXTURES, CONDUIT, AND FITTINGS THIS AREA TO BE WEATHERPROOF AND WATER TIGHT. HARDWARE TO BE STAINLESS STEEL. VERIFY EXACT REQUIREMENTS WITH GREENHOUSE SUPPLIER.
2. CABLE SUSPEND ALL FIXTURES IN GREENHOUSE TO STRUCTURAL MEMBER OF GREENHOUSE TRUSSES. USE STAINLESS STEEL CABLE.
3. PROVIDE WEATHERPROOF SWITCH COVERS FOR ALL SWITCHES IN GREENHOUSE.

SEE GREENHOUSE PLAN NOTES



GENERAL LIGHTING NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 4/E5.1. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (▨) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 2/E5.1.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)	
102	PROVIDE EMERGENCY BYPASS RELAY PER DETAIL 5/E5.1

2 E1.1FL FIRST FLOOR - UNIT F - GREENHOUSE - LIGHTING

Scale: 1/8" = 1'-0"



1 E1.1FL FIRST FLOOR - UNIT F - LIGHTING

Scale: 1/8" = 1'-0"

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Milwaukee
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Milwaukee, Wisconsin 53204
T: 414.226.0200

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UNIT F - FIRST FLOOR PLAN - LIGHTING

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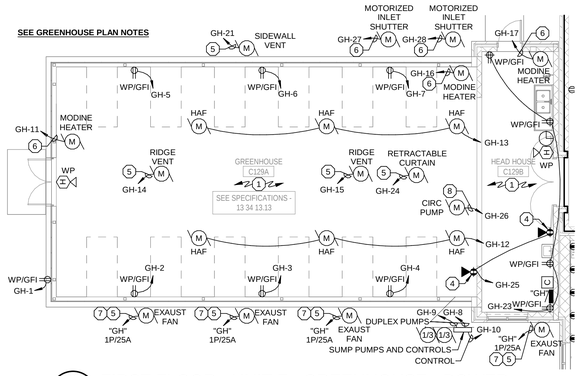
GREENHOUSE PLAN NOTES

1. ALL DEVICES, FIXTURES, CONDUIT, AND FITTINGS THIS AREA TO BE WEATHERPROOF AND WATER TIGHT. HARDWARE TO BE STAINLESS STEEL. VERIFY EXACT REQUIREMENTS WITH GREENHOUSE SUPPLIER.
2. CABLE SUSPEND ALL FIXTURES IN GREENHOUSE TO STRUCTURAL MEMBER OF GREENHOUSE TRUSSES. USE STAINLESS STEEL CABLE.
3. PROVIDE WEATHERPROOF SWITCH COVERS.
4. MICRO GROW PROCOM CONTROLLER.
5. CONTROL THIS CIRCUIT THROUGH MICRO GROW PROCOM CONTROLLER.
6. PROVIDE CONTROL WIRING FROM MODINE UNIT HEATER TO MICRO GROW PROCOM CONTROLLER.
7. 2#10 #10G IN 1/2"C
8. WIRE CIRC PUMP THROUGH IN-LINE AQUASTAT.



2 FIRST FLOOR - UNIT F - GREENHOUSE - POWER

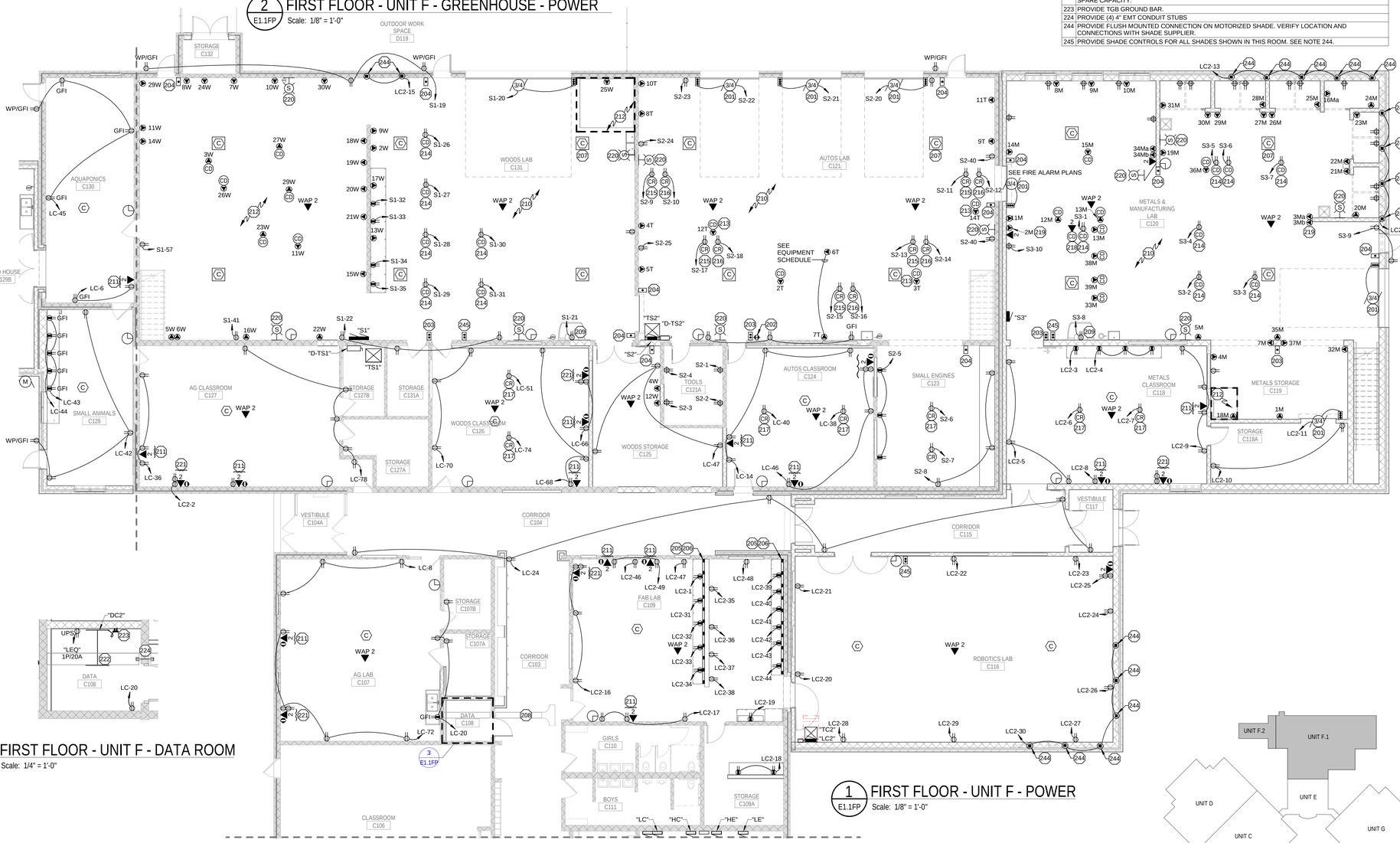
E1.1FP Scale: 1/8" = 1'-0"

GENERAL POWER NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 8/E5.1.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 1/E5.1.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
7. SEE HVAC MOTOR STARTER SCHEDULE IN HVAC PLANS FOR STARTERS AND DISCONNECTS BY E.C. MOUNT ALL DISCONNECTS ON NEAREST WALL ADJACENT TO MOTOR OR EQUIPMENT OR AS SHOWN ON HVAC PLANS. PROVIDE FREE STANDING RACK IF WALL SPACE IS NOT AVAILABLE.
8. PROVIDE DATA OUTLETS PER DETAIL 1/E5.1.
9. PROVIDE DATA CABLING TO ALL WIRELESS ACCESS POINTS (WAPS) PER DETAIL 9/E5.1
10. PROVIDE ALL DATA CABLING IN THIS AREA BACK TO NEW RACK "DC2"
11. MOUNT ALL EXTERIOR SPEAKERS THIS SHEET AT SAME HEIGHT AS EXTERIOR LIGHTING FIXTURES.
12. SEE SHEET E5.4 FOR SHOP EQUIPMENT CONNECTIONS
13. PROVIDE WEATHERPROOF DISCONNECT FOR ALL GREENHOUSE EQUIPMENT.
14. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONDUIT, LINE VOLTAGE WIRING, LOW VOLTAGE CONTROL WIRING, AND BOXES AS REQUIRED BY THE GREENHOUSE. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL POWER AND LOW VOLTAGE CONNECTIONS TO GREENHOUSE EQUIPMENT. SEE GREENHOUSE DRAWINGS FOR MORE INFORMATION.

PLAN NOTES (X)

201	PROVIDE ELECTRICAL CONNECTION TO OVERHEAD DOOR. E.C. TO MOUNT AND WIRE ALL CONTROLS, SEE DETAIL 3/E5.1
202	PROVIDE DEADFRONT GFCI SWITCH LABELED CORD LIGHT RESET.
203	SHOP EMERGENCY POWER CONTROL MASTER KEY "ON" MUSHROOM PUSH BUTTON "OFF" STATION, SEE DETAIL 7/E5.1
204	SHOP EMERGENCY POWER CONTROLKNS REMOTE MUSHROOM PUSHBUTTON "OFF" STATION, SEE DETAIL 7/E5.1
205	PROVIDE SURFACE WIREMOLD 4000 RACEWAY PER DETAIL 1/E5.2
206	PROVIDE VERTICAL WIREMOLD 4000 DROP FROM CEILING.
207	MOUNT SPEAKERS TO ROOF DECK. PROVIDE METAL SURFACE SPEAKER ENCLOSURE. ALL SPEAKER WIRING IN CONDUIT. PAINT TO MATCH ROOF DECK, TYPICAL OF ALL.
208	PROVIDE WIRE BASKET CABLE TRAY IN CORRIDOR. PROVIDE TEE AND TIE INTO EXISTING CORRIDOR CABLE TRAY.
209	PROVIDE RECEPTACLE IN BASE OF WASH FOUNTAIN FOR CONTROLS. CONNECT TO GFCI CIRCUIT.
210	ALL WIRING IN SHOP TO BE IN CONDUIT. NO EXPOSED WIRING TO INCLUDE ALL LOW VOLTAGE CABLING. ALL DEVICES SHOWN IN NEW WALLS TO BE FLUSH MOUNTED AND WIRING CONCEALED INSIDE WALLS. SURFACE MOUNTED DEVICES OR CONDUIT ALLOWED ONLY IN EXISTING WALLS TO REMAIN.
211	LOCATE DEVICES BEHIND WALL MOUNTED MEDIA DEVICE, ROUGH-IN DEVICES AT HEIGHT SHOWN ON ARCHITECTURAL ELEVATIONS. PROVIDE 2-GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING IF BLANK BOX IS SHOWN ON FLOORPLANS FOR OWNER PROVIDED CABLING.
212	ALL WIRING AND DEVICES THIS ROOM TO BE RATED CLASS 1 DIVISION 1 AND SHALL COMPLY WITH NEC 516. PROVIDE LISTED CONDUIT SEALS.
213	PROVIDE CORD DROP TO LIFT PER DETAIL 2/E5.2 PROVIDE L6-20 RECEPTACLE
214	PROVIDE CORD DROP RECEPTACLE PER DETAIL 2/E5.2
215	PROVIDE CORD REEL LIGHT PER DETAIL 2/E5.2
216	PROVIDE CORD REEL PER DETAIL 4/E5.2
217	PROVIDE RECESSED CORD REEL PER DETAIL 5/E5.2
218	PROVIDE CORD DROP DATA PER DETAIL 8/E5.1
219	PROVIDE SPECIAL EQUIPMENT GROUNDING PER MANUFACTURERS REQUIREMENTS.
220	PROVIDE BLUE WARNING LIGHT TIED INTO PA SYSTEM. LIGHT TO STROBE DURING ANNOUNCEMENTS, OFF OTHERWISE.
221	PROVIDE DEVICES AT TEACHER DESK LOCATION. ROUGH-IN DEVICES AT 18"AFF. PROVIDE 2-GANG EXTRA DEEP WITH 1"C TO ABOVE CEILING IF BLANK BOX IS SHOWN ON FLOORPLANS.
222	PROVIDE LADDER TRAY ABOVE. EXTEND INTO CORRIDOR ABOVE LAY-IN CEILING. BOLT LADDER TRAY TO RACK. PROVIDE ADDITONAL CABLE TRAY AS REQUIRED TO ACCOMODATE CABLE PLUS 50% SPARE CAPACITY.
223	PROVIDE TGB GROUND BAR.
224	PROVIDE (4) 4" EMT CONDUIT STUBS
244	PROVIDE FLUSH MOUNTED CONNECTION ON MOTORIZED SHADE. VERIFY LOCATION AND CONNECTIONS WITH SHADE SUPPLIER.
245	PROVIDE SHADE CONTROLS FOR ALL SHADES SHOWN IN THIS ROOM. SEE NOTE 244.

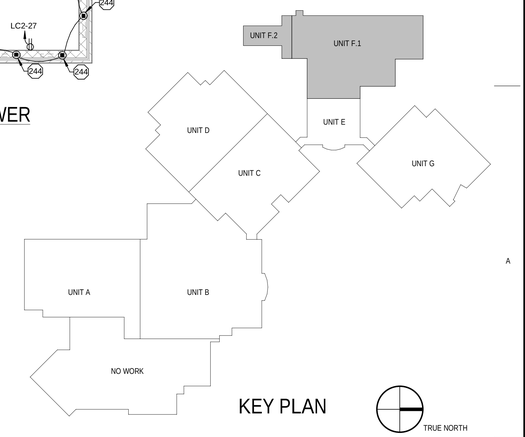


3 FIRST FLOOR - UNIT F - DATA ROOM

E1.1FP Scale: 1/4" = 1'-0"

1 FIRST FLOOR - UNIT F - POWER

E1.1FP Scale: 1/8" = 1'-0"



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BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
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UNIT F - FIRST FLOOR PLAN - POWER

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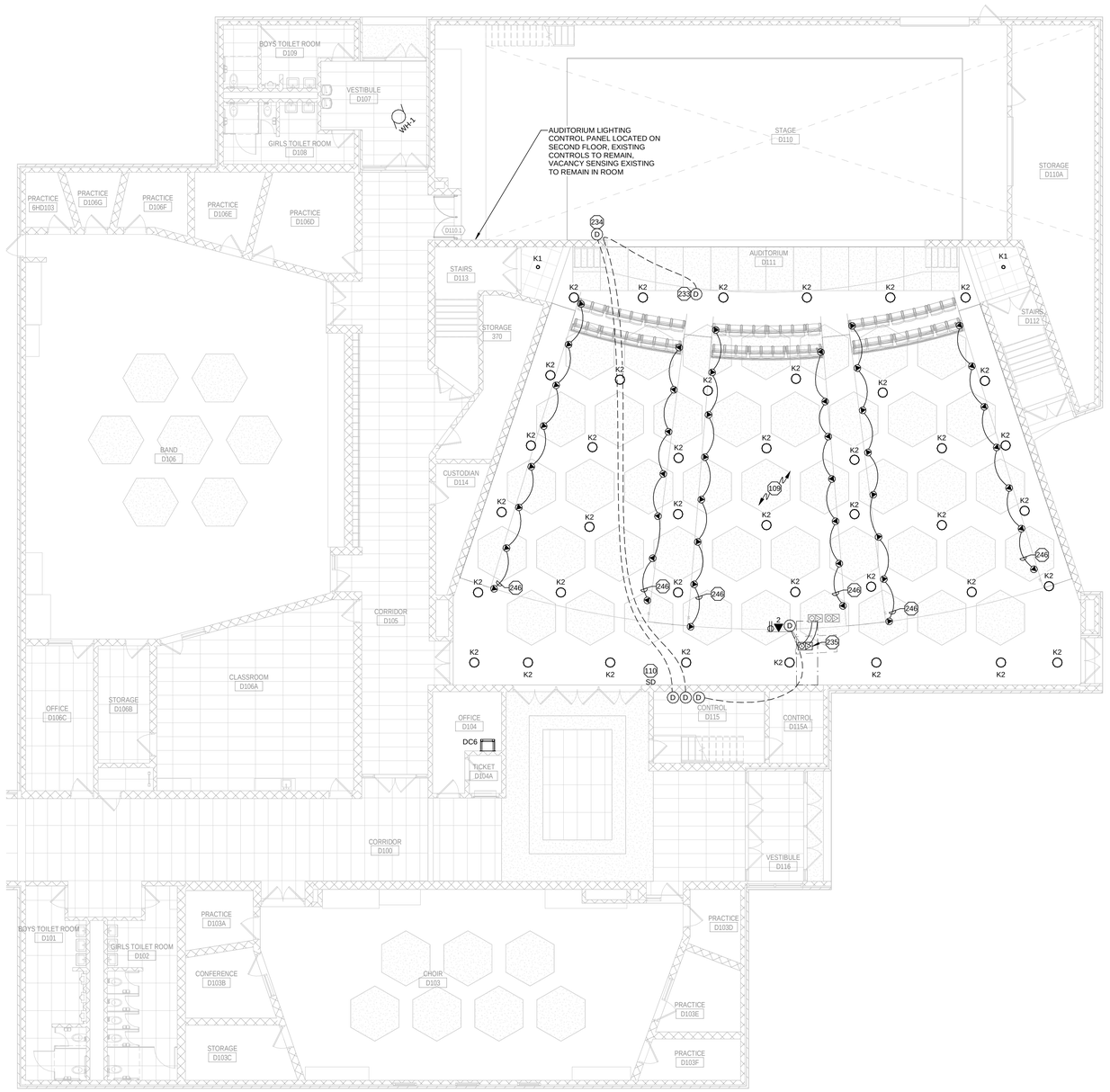
GENERAL NOTES

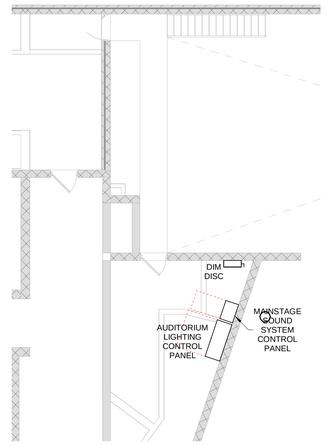
1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 4/E5.1. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE ( ) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 2/E5.1.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)

109	PROVIDE NEW FIXTURES AND TIE INTO EXISTING CONTROLS AND CIRCUITS. LIGHTING IS CONTROLLED BY OCCUPANCY SENSOR AND THE AUDITORIUM LIGHTING DIMMING RACK. EXTEND CIRCUITS AS NEEDED.
110	EXISTING CONTROLS AND 10-BUTTON PROGRAMMABLE SWITCHES TO REMAIN.
233	USE EXISTING BLANK BACKBOX ON ORCHESTRA PIT. PROVIDE NEW 1 1/4" CONDUIT FROM EXISTING BOX NEAR STAGE 110 HDMI AND RUN PARALLEL TO SECOND FLOOR CONTROL D115. PROVIDE LANSHACK LS-AOHC-4K18G-LSZH-330F OR EQUAL TO SECOND FLOOR CONTROL D115. PAINT CONDUIT WHEN EXPOSED, SEE ARCHITECTURAL FOR COLOR. PROVIDE HDMI ONLY PER DETAIL -/--.
234	PROVIDE NEW 1 1/4" CONDUIT FOR OWNER PROVIDED HDMI TO SECOND FLOOR CONTROL D115, PAINT CONDUIT WHEN EXPOSED, SEE ARCHITECTURAL FOR PAINT COLOR.
235	EXTEND POWER AND CONTROLS FROM EXISTING FLOORBOX TO NEW FLOORBOX SHOWN HERE. CONCEAL, CUT, AND PATCH CONCRETE. PROVIDE NEW TYPE 1 FLOORBOX. PROVIDE NEW PATHWAY AND CABLE FOR 2 DATA DROPS FROM "DC-6" IN NEW FLOORBOX. PROVIDE PATHWAYS FOR HDMI PER DETAIL -.
246	RECONNECT EXISTING CIRCUITS AND CONTROLS TO AUDITORIUM SEAT LIGHTING.



2 FIRST FLOOR - UNIT G - LIGHTING
E1.1G Scale: 1/8" = 1'-0"



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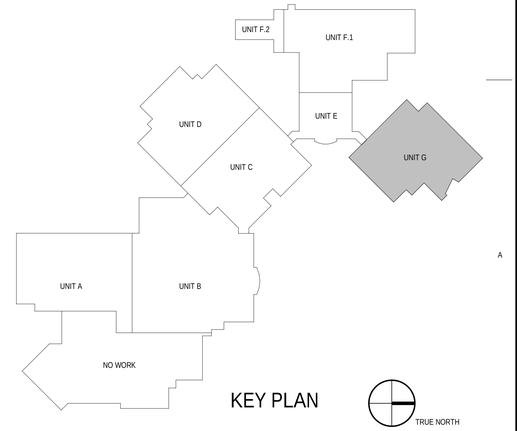

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Sheet Title:
UNIT G - FIRST FLOOR PLAN - ELECTRICAL

Sheet Number:
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GENERAL LIGHTING NOTES

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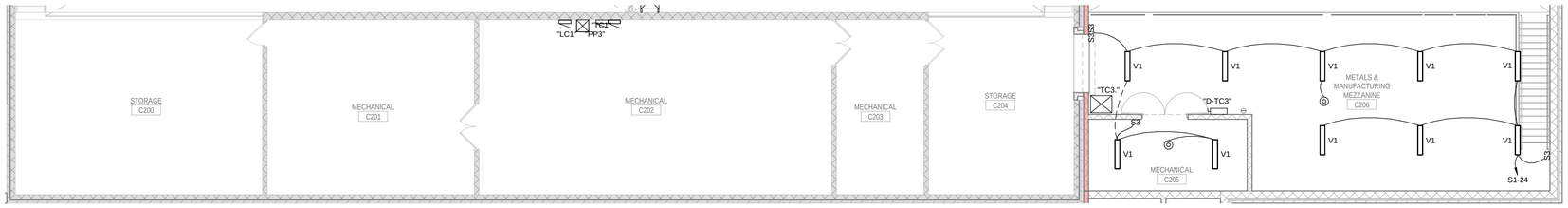
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (▨) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 2/E5.1.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

5/E5.1

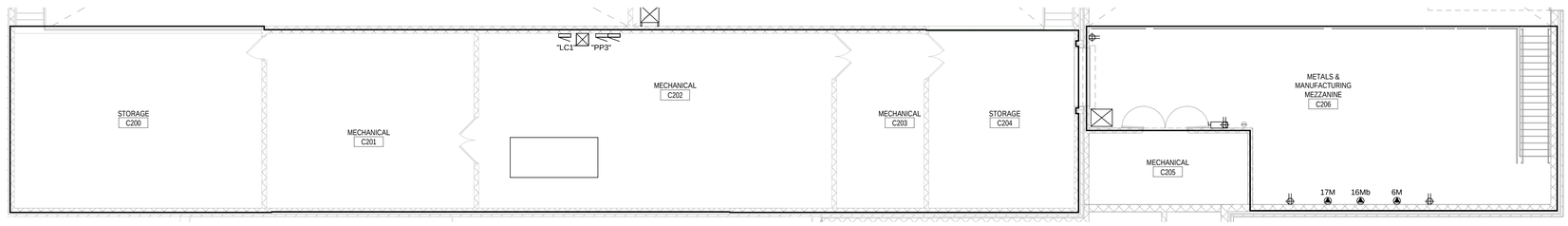
GENERAL POWER NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 8/E5.1.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 1/E5.1.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
7. SEE HVAC MOTOR STARTER SCHEDULE IN HVAC PLANS FOR STARTERS AND DISCONNECTS BY E.C. MOUNT ALL DISCONNECTS ON NEAREST WALL ADJACENT TO MOTOR OR EQUIPMENT OR AS SHOWN ON HVAC PLANS. PROVIDE FREE STANDING RACK IF WALL SPACE IS NOT AVAILABLE.
8. PROVIDE DATA AND PHONE OUTLETS PER DETAIL
9. PROVIDE DATA CABLING TO ALL WIRELESS ACCESS POINTS (WAPS) PER DETAIL
10. MOUNT ALL EXTERIOR SPEAKERS THIS SHEET AT SAME HEIGHT AS EXTERIOR LIGHTING FIXTURES.
11. MOUNT TOP OF CORRIDOR CLOCK TIGHT TO CEILING.
12. ALL DEVICES SHOWN IN PRECAST TO BE FLUSH MOUNTED UNLESS NOTED OTHERWISE.
13. WET CAST COMPOSITE PANELS WILL BE MANUFACTURED FOR THE WALLS. WHEN THESE PANELS ARE MADE IT WILL BE THE RESPONSIBILITY OF THE EC TO BE PRESENT AT THE PLANT WITH ALL OF THE MATERIAL TO INSTALL THE FLUSH MOUNTED BOXES AND RACEWAY AS SHOWN ON THE DRAWINGS.

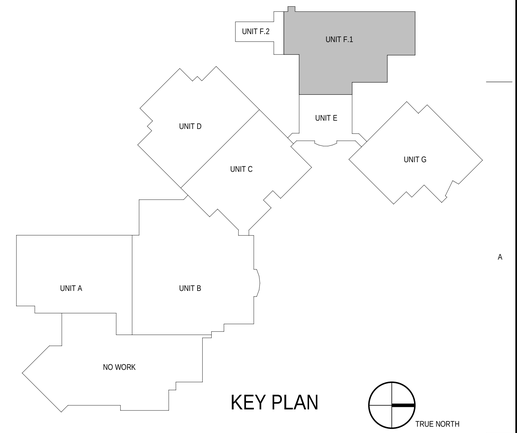
PLAN NOTES (X)



2 SECOND FLOOR - UNIT F - LIGHTING
1/8" = 1'-0"



1 SECOND FLOOR - UNIT F - POWER
1/8" = 1'-0"



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UNIT F - MEZZANINE FLOOR PLANS

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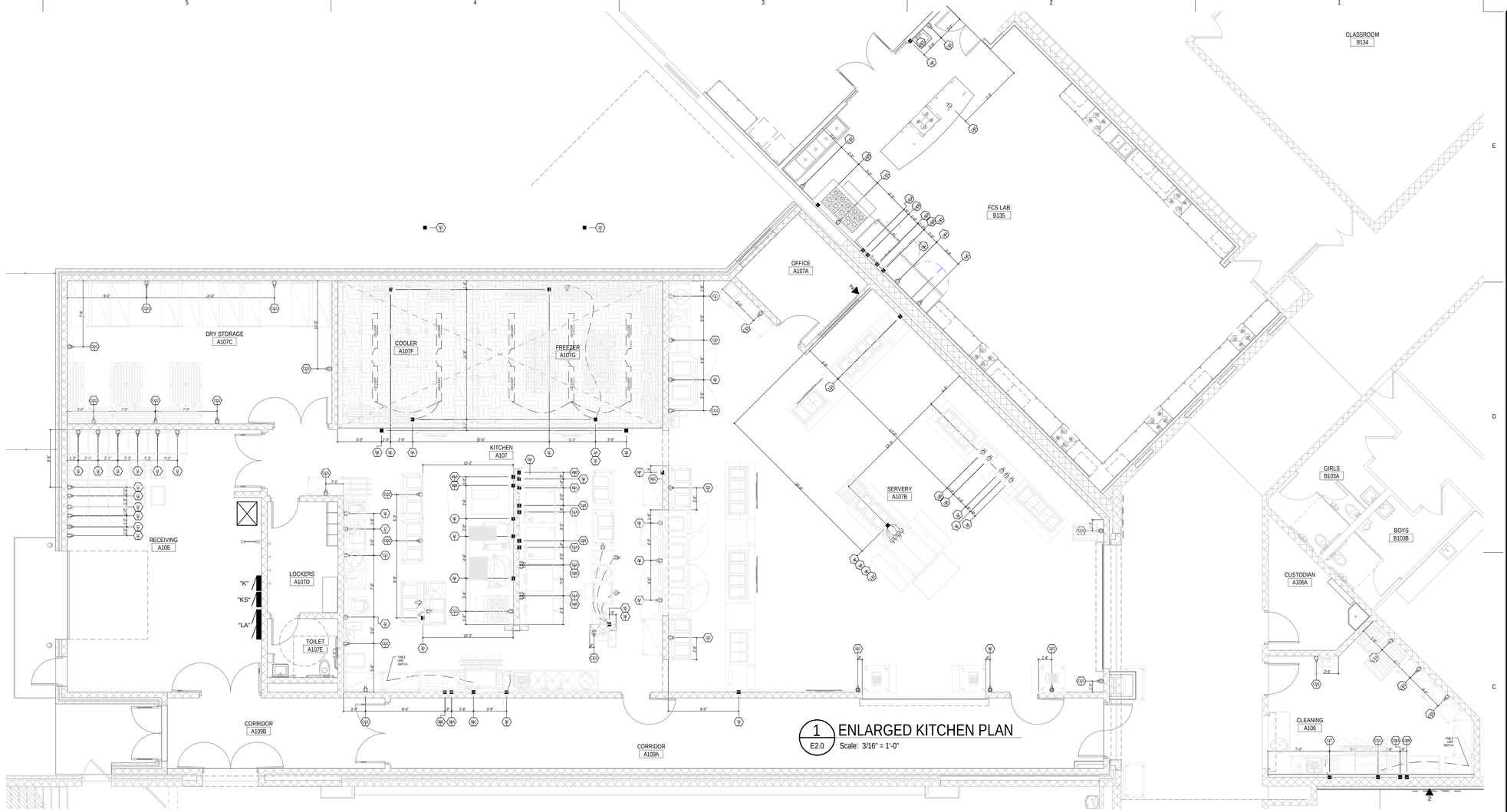
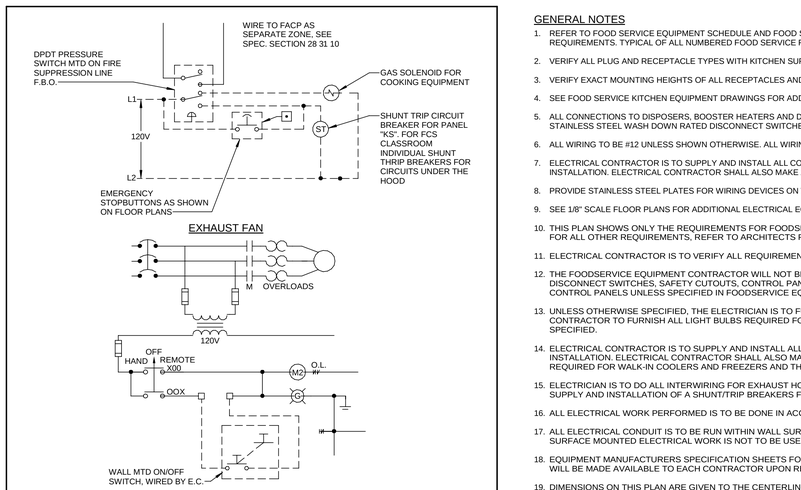


1 E2.0 ENLARGED KITCHEN PLAN

Scale: 3/16" = 1'-0"



OPERATION

1. WHEN FIRE SUPPRESION ACTIVATES, PRESSURE SWITCH CHANGES POSITION. CIRCUIT BREAKERS TRIP AND GAS SOLENOID CLOSES. EXHAUST FAN CONTINUES TO OPERATE.

NOTES:

1. _____ = FIELD WIRING BY E.C.
2. SEE SPECIFICATIONS FOR SUPPLIER OF STARTERS.
3. EMERGENCY STOP BUTTON SHALL BE HEAVY DUTY OIL TYPE, FLUSH MOUNTED, RED MUSHROOM HEAD.

2 E2.0 KITCHEN HOOD WIRING DIAGRAM

SCALE: NTS

GENERAL NOTES

1. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE AND FOOD SERVICE ELECTRICAL CONNECTION SCHEDULE FOR FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENTS. TYPICAL OF ALL NUMBERED FOOD SERVICE ROUGH-IN TAGS.
2. VERIFY ALL PLUG AND RECEPTACLE TYPES WITH KITCHEN SUPPLIER AND FOOD SERVICE CONTRACTOR PRIOR TO ROUGH-IN.
3. VERIFY EXACT MOUNTING HEIGHTS OF ALL RECEPTACLES AND EQUIPMENT CONNECTIONS WITH FOOD SERVICE DRAWINGS PRIOR TO ROUGH-IN.
4. SEE FOOD SERVICE KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS.
5. ALL CONNECTIONS TO DISPOSERS, BOOSTER HEATERS AND DISHWASHERS TO BE SEAL TIGHT WITH WATER TIGHT CONNECTIONS. E.C. TO PROVIDE 4X STAINLESS STEEL WASH DOWN RATED DISCONNECT SWITCHES.
6. ALL WIRING TO BE #12 UNLESS SHOWN OTHERWISE. ALL WIRING FOR KITCHEN EQUIPMENT TO BE COPPER.
7. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, CORDS, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.
8. PROVIDE STAINLESS STEEL PLATES FOR WIRING DEVICES ON WALL UNDER EXHAUST HOOD.
9. SEE 1/8" SCALE FLOOR PLANS FOR ADDITIONAL ELECTRICAL EQUIPMENT IN KITCHEN SPACES.
10. THIS PLAN SHOWS ONLY THE REQUIREMENTS FOR FOODSERVICE EQUIPMENT TO BE FURNISHED BY THE FOODSERVICE EQUIPMENT CONTRACTOR. FOR ALL OTHER REQUIREMENTS, REFER TO ARCHITECTS PLANS, CONSULTANT OR OWNER.
11. ELECTRICAL CONTRACTOR IS TO VERIFY ALL REQUIREMENTS FOR EXISTING EQUIPMENT TO BE REUSED OR ITEMS LABELED "BY OTHERS".
12. THE FOODSERVICE EQUIPMENT CONTRACTOR WILL NOT BE RESPONSIBLE FOR FURNISHING ELECTRICAL APPURTENANCES SUCH AS LINE OR DISCONNECT SWITCHES, SAFETY CUTOUTS, CONTROL PANELS, FUSE BOXES, FITTINGS AND INTERWIRING REQUIRED BETWEEN EQUIPMENT AND CONTROL PANELS UNLESS SPECIFIED IN FOODSERVICE EQUIPMENT CONTRACT.
13. UNLESS OTHERWISE SPECIFIED, THE ELECTRICIAN IS TO FURNISH ALL 208 VOLT CORDS, PLUGS AND RECEPTACLES WHERE NECESSARY. ELECTRICAL CONTRACTOR TO FURNISH ALL LIGHT BULBS REQUIRED FOR EXHAUST HOOD(S) AND/OR WALK-IN COOLERS AND FREEZERS UNLESS OTHERWISE SPECIFIED.
14. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOODSERVICE EQUIPMENT INCLUDING ALL INTERWIRING REQUIRED FOR WALK-IN COOLERS AND FREEZERS AND THEIR COMPRESSORS, BLOWER FANS, TIMERS, HEATERS AND LIGHTING.
15. ELECTRICIAN IS TO DO ALL INTERWIRING FOR EXHAUST HOOD LIGHTING, BLOWERS, DAMPERS, AND FIRE SUPPRESSION SYSTEM, INCLUDING THE SUPPLY AND INSTALLATION OF A SHUNT/TRIP BREAKERS FOR EQUIPMENT AND FAN INTERLOCK MECHANISMS AS NEEDED.
16. ALL ELECTRICAL WORK PERFORMED IS TO BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
17. ALL ELECTRICAL CONDUIT IS TO BE RUN WITHIN WALL SURFACES AND BOXES AND RECEPTACLES ARE TO BE INSET FLUSH WITH WALL SURFACE. SURFACE MOUNTED ELECTRICAL WORK IS NOT TO BE USED UNLESS OTHERWISE SPECIFIED ON FOODSERVICE EQUIPMENT ROUGH-IN PLAN.
18. EQUIPMENT MANUFACTURERS SPECIFICATION SHEETS FOR EACH PIECE OF EQUIPMENT TO BE SUPPLIED BY FOODSERVICE EQUIPMENT CONTRACTOR WILL BE MADE AVAILABLE TO EACH CONTRACTOR UPON REQUEST.
19. DIMENSIONS ON THIS PLAN ARE GIVEN TO THE CENTERLINES OF THE ROUGH-INS.
20. ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL DISCONNECT SWITCHES AS REQUIRED BY LOCAL CODE.
21. ELECTRICAL CONTRACTOR TO SEAL INSIDE OF CONDUIT W/ SILICONE OR EXPANDABLE FOAM WHERE CONDUIT PENETRATES WALK-IN COOLER/FREEZER WALLS. TYPICAL.
22. ELECTRICAL CONTRACTOR TO COMPLY WITH ALL LOCAL AND STATE ELECTRICAL CODES. ELECTRICAL CONTRACTOR TO READ AND REVIEW 11 40 00 SPECIFICATIONS.
23. ELECTRICAL CONTRACTOR TO INSTALL CORD AND PLUGS PROVIDED BY FOODSERVICE EQUIPMENT CONTRACTOR.

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

ENGINEERING DESIGN BY
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534 S. ELIZABETH
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ELECTRICAL FOODSERVICE SCHEDULE

ITEM NUMBER	EQUIPMENT DESCRIPTION	QUANTITY	(N)NEW (F) FUTURE (X) EXISTING	VOLTAGE	PHASE	AMPS	KW	HP	DIRECT	PLUG	NEMA NUMBER	PANEL	BREAKER	WIRE	CONDUIT	REC NEMA	ELECTRICAL REMARKS
1A	WALK IN FREEZER LTG AND VENT	1	N	120	1	10.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER LIGHTS AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO CONNECT AND INSTALL ALL LIGHT FIXTURES.
1B	WALK IN FREEZER DOOR HEATER	1	N	120	1	10.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER DOOR HEATER. 20.0 AMP CIRCUIT.
1C	WALK IN FREEZER COIL	1	N	208	1	31.4			X			K	40				208-230V/1 J-BOX FROM ABOVE FOR WALK-IN FREEZER COIL. (3.0 FAN AMPS, 27.4 HEATER AMPS).
1D	WALK IN FREEZER COMPRESSOR	1	N	208	3	21.4		6	X			K	30				208-230V/3 J-BOX FOR WALK-IN FREEZER COMPRESSOR. 6.0 HP. 21.5 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT. EXACT LOCATION TO BE VERIFIED WITH OWNER/ARCHITECT. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE BLOWER COIL UNIT. EC TO VERIFY FINAL LOCATION OF TIME CLOCK WITH FSEC AND INTERWIRE TIME CLOCK, SOLENOID AND THERMOSTAT. * SEE REMOTE COMPRESSOR NOTES THIS PAGE.
1E	WALK IN FREEZER DRAIN LINE HEAT TAPE	1	N	120	1	4.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR DRAIN LINE HEAT TAPE. DGR. 20.0 AMP CIRCUIT. EC TO CONNECT TO DGR LOCATED INSIDE WALK-IN FREEZER BOX MOUNTED TO WALL BEHIND COIL.
5A	WALK IN FREEZER LTG AND VENT	1	N	120	1	10.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER LIGHTS AND HEATED AIR VENT. 20.0 AMP CIRCUIT. EC TO CONNECT AND INSTALL ALL LIGHT FIXTURES.
5B	WALK IN FREEZER DOOR HEATER	1	N	120	1	10.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER DOOR HEATER. 20.0 AMP CIRCUIT.
5C	WALK IN FREEZER COIL	1	N	120	1	2.7			X			K	20				120V/1 J-BOX FROM ABOVE FOR WALK-IN COOLER COIL. 2.7 AMPS.
5D	WALK IN FREEZER COMPRESSOR	1	N	208	3	12.3			X			K	20				208-230V/3 J-BOX FOR WALK-IN COOLER COMPRESSOR. 2-1/2 HP. 12.3 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT. EXACT LOCATION TO BE VERIFIED WITH OWNER/ARCHITECT. EC TO INTERWIRE COMPRESSOR TO RESPECTIVE BLOWER COIL UNIT. EC TO VERIFY FINAL LOCATION OF TIME CLOCK WITH FSEC AND INTERWIRE TIME CLOCK, SOLENOID AND THERMOSTAT. * SEE REMOTE COMPRESSOR NOTES THIS PAGE.
11	HOLDING CABINET	12	N	120	1	16.0				X	5-20P	K	20				120V/1 DGR 48" AFF FOR HOT HOLDING CABINET. 1.9 KW. 16.0 AMPS. NEMA 5-20P.
16	20QT MIXER	1	X	120	1	16.0			X		5-20P	K	20				120V/1 DGR 48" AFF FOR EXISTING 20 QUART MIXER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
17	SLICER	1	X	120	1	16.0			X		5-20P	K	20				120V/1 DGR 48" AFF FOR EXISTING SLICER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
21	60QT MIXER	1	X	208	3	16.0			X			K	20				208V/3 SGR 48" AFF FOR EXISTING 60 QUART MIXER. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
30	WORKTABLE W/SINK	1	N	120	1	1.5			X			K	20				120V/1 J-BOX STUB-UP 6" AFF FOR WORKTABLE W/ SINK. EC TO CONNECT TO (2)120V/1 RECEPTACLES MOUNTED IN BACKSPLASH OF TABLE BY FABRICATOR FOR (2)CONVENIENCE OUTLETS. (2)20.0 AMP CIRCUITS.
		1	N	120	1	1.5			X			K	20				
38A	DISHMACHINE	1	N	480	3	27.9			X			PP1	40				480V/3 J-BOX 18" AFF. FOR DISHMACHINE MOTORS & ELECTRIC TANK HEAT. 27.9 AMPS. 40.0 AMP CIRCUIT. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EC TO INTERWIRE FROM VENT FAN CONTROL CONNECTION AND DISHMACHINE TO EXHAUST FAN ON HOOD. FAN(S), DUCTWORK, ETC PROVIDED BY OTHERS - EC TO VERIFY EXACT REQUIREMENTS. EC TO INTERWIRE FROM DISHMACHINE TO TABLE LIMIT SWITCH.
38B	DISHMACHINE EXAUST (LOW VOLTAGE FROM 38A)	1	N	480	3	40.0			X			PP1	50				480V/3 J-BOX 18" AFF FOR DISHMACHINE BUILT-IN BOOSTER. 40.1 AMPS. 50.0 AMP CIRCUIT. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. REMOVE EXISTING 20A SPARE IN PP1 AND PROVIDE NEW 50A/3 IN EXISTING EATON PANELBOARD
38C	FAN CONTROL JBOX	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	J-BOX 66" AFF FOR VENT FAN CONTROL CONNECTION LOW WATTAGE FAN CONTROL CONTACT (NOT FOR LINE VOLTAGE) AVAILABLE WITHIN DISHWASHER.
39	DISPOSER	1	N	208	3	6.6			X			K	20				208V/3 J-BOX 18" AFF FOR DISPOSER. 2.0 HP. 6.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODE(S). EC TO CONNECT DISPOSER, SOLENOID VALVE AND SWITCH.
42	TILT SKILLET	1	N	120	1	5.0				X	5-20P	KS	20				120V/1 J-BOX 18" AFF. FOR 30 GALLON TILT SKILLET. 5.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONECT OR CORD, PLUG & RECEPTACLE PER LOCAL CODES.
44	TILT KETTLE	1	N	208	3	41.6	14.7		X			KS	60				208V/3 J-BOX 18" AFF FOR 80 GALLON TILT KETTLE. 14.7 KW. 40.9 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONECT PER LOCAL CODES.
45	EXAUST HOOD	1	N	120	1	16.0			X			K	20				120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX, CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. HVAC DATA ON SEPARATE SHEET. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
46A	ROTATING RACK OVEN	1	N	208	3	4.2				X	15-20P	KS	20				208V/3 J-BOX 90" AFF FOR EXISTING ROTATING RACK OVEN. 4.2 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
46B	ROTATING RACK OVEN (CONTROLS)	1	N	120	1	1.5			X			KS	20				120V/1 J-BOX 90" AFF FOR EXISTING ROTATING RACK OVEN CONTROLS. 15.0 AMP DEDICATED CIRCUIT. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
49A	EXAUST HOOD CONTROL BOX	1	N	120	1	1.5			X			KS	20				120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX, CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
49B	EXAUST HOOD CONTROL PAD	1	N	120	1	16			X			KS					120V/1 2 GANG J-BOX 50" AFF. FOR CONTROL PAD (PROVIDED BY CAPTIVE AIRE) FOR EXHAUST HOOD LIGHTS AND FAN(S) MOUNTED BY EC. EC TO ROUTE CAT-5 CABLE BETWEEN CONTROL PAD AND CONTROL BOX. HOOD FAN(S) BY HVAC. EC TO VERIFY LOCATION AND REQUIREMENTS.
49C	TEMP SENSOR	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	SINGLE GANG BOX FOR ROOM TEMPERATURE SENSOR FACE MOUNTED TO WALL BY EC JUST BELOW CEILING. EC TO RUN TWO CONDUCTOR TO CAPTIVE AIRE CONTROL BOX.
50	FIRE SUPPRESSION SYSTEM	1	X	120	1	1.5			X			K	20				120V/1 J-BOX FROM ABOVE FOR FIRE SUPPRESSION SYSTEM. 20.0 AMP CIRCUIT. EC TO INTERCONNECT WITH MICRO SWITCH AT FIRE SUPPRESSION CABINET AND SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER EXHAUST HOOD. ALL SHUNT TRIP BREAKERS AND RELATED WIRING TO BE FURNISHED AND INSTALLED BY EC. EC TO INTERWIRE BETWEEN FIRE SYSTEM CABINET AND HOOD CONTROL CABINET (120V).
51A	X COMBI OVEN	1	X	208	1	16.0			X			KS	20				208V/1 J-BOX 24" AFF FOR EXISTING COMBI OVEN (LOWER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
51B	X COMBI OVEN	1	X	208	1	16.0			X			KS	20				208V/1 J-BOX 48" AFF FOR EXISTING COMBI OVEN (UPPER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
52A	X COMBI OVEN	1	X	208	1	16.0			X			KS	20				208V/1 J-BOX 24" AFF FOR EXISTING COMBI OVEN (LOWER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
52B	X COMBI OVEN	1	X	208	1	16.0			X			KS	20				208V/1 J-BOX 48" AFF FOR EXISTING COMBI OVEN (UPPER SECTION). 16.0 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S). EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
53A	X CONVECTION OVEN	1	X	120	1	16.0			X			KS	20				120V/1 DGR 18" AFF FOR EXISTING CONVECTION OVEN (BOTTOM SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
53B	X CONVECTION OVEN	1	X	120	1	16.0			X			KS	20				120V/1 DGR 48" AFF FOR EXISTING CONVECTION OVEN (UPPER SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
54A	X CONVECTION OVEN	1	X	120	1	16.0			X			KS	20				120V/1 DGR 18" AFF FOR EXISTING CONVECTION OVEN (BOTTOM SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
54B	X CONVECTION OVEN	1	X	120	1	16.0			X			KS	20				120V/1 DGR 48" AFF FOR EXISTING CONVECTION OVEN (UPPER SECTION). 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
55	MICROWAVE STEAMER	1	X	208	1	24.0			X		6-30P	K	30				208V/1 SGR FOR MICROWAVE STEAMER. 5.7 KW. 27.4 AMPS. NEMA 6-30P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 59.
59	WORKTABLE W/SINK	1	N	120	1	1.5			X		5-20P	K	20				120/208V/1 J-BOX 18" AFF FOR WORKTABLE W/ SINK. EC TO CONNECT TO (2)120V/1 RECEPTACLES; (2)20.0 AMP CIRCUITS AND (1)208V/1 RECEPTACLE; 30.0 AMP CIRCUIT MOUNTED TO UNDERSIDE OF TABLE BY FABRICATOR FOR (2) CONVENIENCE OUTLETS AND (1) RECEPTACLE FOR ITEM 55.
		1	N	120	1	1.5			X		5-20P	K	20				
63	ROLL-IN REFRIGERATOR	1	N	120	1	11.4				X	5-15P	K	15				120V/1 DGR 48" AFF FOR ROLL-IN REFRIGERATOR. 1/2 HP. 11.4 AMPS. NEMA 5-15P.
65	PASS-THRU HOT CABINET	1	N	208	SPLIT					X	L14-20P	K	20				120/208V/1 SGR 90" AFF FOR PASS-THRU HOT CABINET. 7.8 AMPS. NEMA L14-20P.
66	ROLL-THRU REFRIGERATOR	1	N	120	1					X	5-20P	K	20				120V/1 DGR 90" AFF FOR ROLL-THRU REFRIGERATOR. 1/2 HP. 13.4 AMPS. NEMA 5-20P.
67	PASS-THRU HOT CABINET	1	N	208	SPLIT					X	L14-20P	K	20				120/208V/1 SGR 90" AFF FOR PASS-THRU HOT CABINET. 7.8 AMPS. NEMA L14-20P.
78	MODULAR SERVING COUNTERS	1	N	208	3	80.0			X			K	100				J-BOX 18" AFF FOR MODULAR SERVING COUNTERS AND EQUIPMENT. EC TO CONNECT TO PRE-WIRED 120/208V/3 100.0 AMP CIRCUIT BREAKER PANEL IN COUNTER. ALL FIELD CONNECTIONS AND SPLICES IN COUNTER BY EC. * REFER TO SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND LOAD PLATE SCHEDULES.
87	X DROP-IN SOUP WELLS	2	X	120	1	16.0				X	5-20P	K	20				120V/1 DOG HOUSE FOR EXISTING DROP-IN SOUP WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
91	X DROP-IN COLD WELLS	1	X	120	1	16.0				X	5-20P	K	20				120V/1 DOG HOUSE FOR EXISTING DROP-IN COLD WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
92	DOGHOUSE FOR 94,95,118	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	120/208V/1 J-BOX STUB-UP 6" AFF FOR SERVING COUNTER. EC TO CONNECT TO (2)120V/1 RECEPTACLES; (2)20.0 AMP CIRCUITS, (1)208V/1 RECEPTACLE; 20.0 AMP CIRCUIT AND (1)120/208V/1 RECEPTACLE; 20.0 AMP CIRCUIT MOUNTED TO UNDERSIDE OF TABLE BY FABRICATOR FOR ITEMS 94, 95 AND 118.
94	HOT/COLD WELLS	1	N	208	1					X	14-20P	K	20				120/208V/1 FOR DROP-IN HOT/COLD WELLS. 12.8 AMPS. NEMA 14-20P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92.
95	MILK COOLER	1	X	120	1					X	5-20P	K	20				120V/1 DOG FOR EXISTING MILK COOLER. 16.0 AMPS. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
96	POINT OF SERVICE	1	N	120	1	3.0				X	5-20P	LA	20				120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
101	POINT OF SERVICE	1	N	120	1	3.0				X	5-20P	LA	20				120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
103	POINT OF SERVICE	1	N	120	1	3.0				X	5-20P	LA	20				120V/1 DDGR 18" AFF FOR POS SYSTEM. 20.0 AMP DEDICATED CIRCUIT. EC TO PROVIDE EMPTY J-BOX FOR RUNNING OF POS AND DATA LINES; ROUTE PER OWNER'S SPECIFICATIONS. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION(S) AND REQUIREMENTS WITH OWNER.
105	FOOD WARMER	1	N	120	1	10.0				X	5-15P	K	15				120V/1 DOG HOUSE FOR FOOD WARMER. 10.0 AMPS. NEMA 5-15P.
109	X DROP IN COLD WELLS	1	X	120	1					X	5-20P	K	20				120V/1 DOG HOUSE FOR EXISTING DROP-IN COLD WELLS. 16.0 AMPS. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
114	MODULAR SERVING COUNTERS	1	N	208	3	80.0			X			K	100				J-BOX 18" AFF FOR MODULAR SERVING COUNTERS AND EQUIPMENT. EC TO CONNECT TO PRE-WIRED 120/208V/3 100.0 AMP CIRCUIT BREAKER PANEL IN COUNTER. ALL FIELD CONNECTIONS AND SPLICES IN COUNTER BY EC. * REFER TO SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND LOAD PLATE SCHEDULES.
118	REFRIGERATED MERCHANDISER	1	N	208	1	10.0	2.8			X	6-20P	K	20				208V/1 FOR REFRIGERATED MERCHANDISER. 2.826 KW. 16.0 AMPS. NEMA 6-20P. UNIT TO PLUG INTO RECPETACLE LISTED UNDER ITEM 92.
127	DISPOSER	1	N	208	3	6.6			X			K	20				208V/3 J-BOX 18" AFF FOR DISPOSER. 2.0 HP. 6.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODE(S). EC TO CONNECT DISPOSER, SOLENOID VALVE AND SWITCH.
129A	DISHMACHINE MOTORS & HEAT TANK	1	X	208	3	60.6			X			K	80				208V/3 J-BOX 18" AFF. FOR EXISTING DISHMACHINE MOTORS & ELECTRIC TANK HEAT. 60.6 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EC TO INTERWIRE FROM VENT FAN CONTROL CONNECTION AND DISHMACHINE TO EXHAUST FAN ON HOOD. FAN(S), DUCTWORK, ETC PROVIDED BY OTHERS - EC TO VERIFY EXACT REQUIREMENTS. EC TO INTERWIRE FROM DISHMACHINE TO TABLE LIMIT SWITCH. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
129B	DISHMACINE BUILT IN BOOSTER	1	X	208	3	83.9			X			K	110				208V/3 J-BOX 18" AFF FOR EXISTING DISHMACHINE BUILT-IN BOOSTER. 83.9 AMPS. EC TO FURNISH AND INSTALL A DISCONNECT PER LOCAL CODES. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS. PROVIDE SUBFEED BREAKER 110A/3 IN PANEL K.
129C	X VENT CONTROL	1	X	-	-	-	-	-	-	-	-	-	-	-	-	-	J-BOX 66" AFF FOR EXISTING VENT FAN CONTROL CONNECTION. LOW WATTAGE FAN CONTROL CONTACT (NOT FOR LINE VOLTAGE) AVAILABLE WITHIN DISHWASHER. EXISTING - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
140A	COMBI OVEN	1	N	208	1	9.6			X			LA	20				208V/1 J-BOX 24" AFF FOR COMBI OVEN (LOWER SECTION). 2.0 KW. 9.6 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S).
140B	COMBI OVEN	1	N	208	1	9.6			X			LA	20				208V/1 J-BOX 48" AFF FOR COMBI OVEN (UPPER SECTION). 2.0 KW. 9.6 AMPS. EC TO FURNISH AND INSTALL A CORD AND DISCONNECT PER LOCAL CODE(S).
142A	CAPTIVE AIR EXAST HOOD CONTROL	1	N	120	1	1.5			X			LA	20				120V/1 J-BOX FROM ABOVE FOR CAPTIVE AIRE EXHAUST HOOD CONTROL BOX. 20.0 AMP CIRCUIT. EC TO INTERCONNECT BETWEEN CONTROL BOX; CONTROL PAD (CAT-5), FAN STARTERS (120V CONTROL), LIGHTS (120V), ROOM TEMPERATURE SENSOR (TWO CONDUCTOR), TEMPERATURE SENSOR ON HOOD (TWO CONDUCTOR), SHUNT TRIP BREAKERS FOR EQUIPMENT UNDER HOOD, BUILDING AUTOMATION SYSTEM AND ANY OTHER MONITORING SYSTEMS AS REQUIRED BY CODE OR OWNER. EC TO VERIFY FINAL LOCATIONS. FANS, STARTERS, DUCT WORK, INSULATION, ROOF CURBS, AND ROOF PENETRATIONS BY OTHERS. * REFER TO CAPTIVE AIRE EXHAUST HOOD SHOP DRAWINGS FOR ADDITIONAL INFORMATION AND WIRING DIAGRAMS.
142B	CONTROL PAD	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	2 GANG J-BOX 50" AFF. FOR CONTROL PAD (PROVIDED BY CAPTIVE AIRE) FOR EXHAUST HOOD LIGHTS AND FAN(S) MOUNTED BY EC. EC TO ROUTE CAT-5 CABLE BETWEEN CONTROL PAD AND CONTROL BOX. HOOD FAN(S) BY HVAC. EC TO VERIFY LOCATION AND REQUIREMENTS.
142C	TEMP SENSOR	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	SINGLE GANG BOX FOR ROOM TEMPERATURE SENSOR FACE MOUNTED TO WALL BY EC JUST BELOW CEILING. EC TO RUN TWO CONDUCTOR TO CAPTIVE AIRE CONTROL BOX.
143	FIRE SUPPRESSION SYSTEM	1	N	120	1	1.5			X			LA	20				120V/1 J-BOX FROM ABOVE FOR FIRE SUPPRESSION SYSTEM. 20.0 AMP CIRCUIT. EC TO INTERCONNECT WITH MICRO SWITCH AT FIRE SUPPRESSION CABINET AND SHUNT TRIP BREAKERS FOR ALL EQUIPMENT UNDER EXHAUST HOOD. ALL SHUNT TRIP BREAKERS AND RELATED WIRING TO BE FURNISHED AND INSTALLED BY EC. EC TO INTERWIRE BETWEEN FIRE SYSTEM CABINET AND HOOD CONTROL CABINET (120V).
144	REACH-IN REFRIGERATOR	1	N	120	1	8.0				X	5-15P	LA	15				120V/1 DGR 48" AFF FOR REACH-IN REFRIGERATOR. 1/2 HP. 8.0 AMPS. NEMA 5-15P.
145	REACH-IN FREEZER	1	N	120	1	8.5				X	5-15P	LA	15				120V/1 DGR 48" AFF FOR REACH-IN FREEZER. 3/4 HP. 8.46 AMPS. NEMA 5-15P.
148	UNDERCOUNTER DISHWASHER	1	N	208	1	33.7				X	6-50P	LA	50				208-240V/1 SGR IN COUNTER FOR UNDERCOUNTER DISHWASHER. 33.7 AMPS. NEMA 6-50P. * UNIT TO BE FURNISHED WITH A CORD AND PLUG. BY OWNER - EC TO VERIFY ROUGH-IN LOCATION AND REQUIREMENTS.
CO	CONVENIENCE OUTLET 48"AFF	5	N	120	1	1.5				X	5-20P	K,LA	20				120V/1 GFCI DGR 48" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT, CIRCUIT NO MORE THAN THREE (3) "CO", "CO1", "CO2", AND "CO3" TOGETHER.
CO1	CONVENIENCE OUTLET 18"AFF	15	N	120	1	1.5				X	5-20P	K,LA	20				120V/1 GFCI DGR 18" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT, CIRCUIT NO MORE THAN THREE (3) "CO", "CO1", "CO2", AND "CO3" TOGETHER.
CO2	CONVENIENCE OUTLET (CORD DROP)	2	N	120	1	1.5				X	5-20P	K,LA	20				120V/1 SUSPENDED GFCI DGR FROM ABOVE DOWN TO 66" AFF. 20.0 AMP CIRCUIT, CIRCUIT NO MORE THAN THREE (3) "CO", "CO1", "CO2", AND "CO3" TOGETHER. * ALSO REFER TO SUSPENDED OUTLET DETAIL ON SHEET FS200A.
CO3	CONVENIENCE OUTLET 72"AFF	1	N	120	1	1.5				X	5-20P	K,LA	20				120V/1 GFCI DGR 72" AFF FOR A CONVENIENCE OUTLET. 20.0 AMP CIRCUIT, CIRCUIT NO MORE THAN THREE (3) "CO", "CO1", "CO2", AND "CO3" TOGETHER.
GV	GAS VALVE (SEE KITCHEN SHUTDOWN DETAIL)	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	120V/1 ELECTRONIC GAS VALVE. EC TO WIRE FROM SYSTEM CONTROL PANEL TO ELECTRONIC GAS SOLENOID VALVE. SEE DETAIL 2/E2.0.
RP	REMOTE MANUAL PULL STATION	1	N	-	-	-	-	-	-	-	-	-	-	-	-	-	SINGLE GANG BOX FOR REMOTE MANUAL PULL. SEE DETAIL SHEET FS200A. EC TO INTERWIRE TO CAPTIVE AIRE CONTROL BOX. SEE DETAIL 2/E2.0.

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829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200

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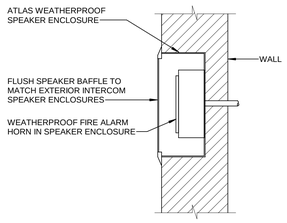
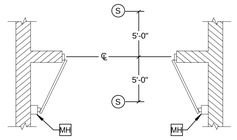


4 E3.0 EXTERIOR FIRE ALARM HORN MOUNTING DETAIL

SCALE: NTS

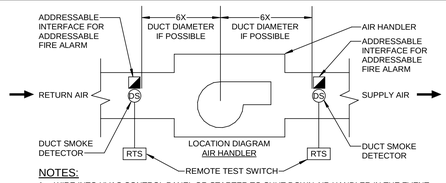


NOTES:

1. DOUBLE DOOR SHOWN, SINGLE DOORS SIMILAR, EXCEPT ONLY ONE MAGNETIC DOOR HOLDER.
2. PROVIDE ALL FLUSH MOUNTED OUTLET BOXES WHERE WALL IS NEW OR WALL IS HOLLOW AND CAN BE FISHED.
3. CONNECT TO FIRE ALARM SYSTEM.
4. IF EXISTING WALL CAN NOT BE FISHED, PROVIDE SURFACE METAL RACEWAY FOR CABLING.

3 E3.0 MAGNETIC DOOR HOLD DETAIL - ADDRESSABLE FACP

SCALE: NTS



NOTES:

1. WIRE INTO HVAC CONTROL PANEL OR STARTER TO SHUT DOWN AIR HANDLER IN THE EVENT SMOKE IS DETECTED. PROVIDE WRITTEN STATEMENT TO ARCHITECT THAT THE SYSTEM WAS TESTED AND OPERATES CORRECTLY.
2. MOUNT REMOTE TEST STATION ON NEAREST WALL IN MECHANICAL, ELECTRICAL, JANITOR OR STORAGE ROOM THAT PROVIDES ACCESS. IN INSTALLATIONS WHERE TWO OR MORE AHU'S ARE INSTALLED TOGETHER, MOUNT ALL TEST SWITCHES IN ONE AREA.
3. IF ONLY ONE (DS) IS SHOW ON FLOOR PLANS, MOUNT ON RETURN SIDE OF AHU.

2 E3.0 FIRE ALARM DUCT DETECTOR INSTALLATION

SCALE: NTS

1 E3.0 OVERALL FIRST FLOOR - FIRE ALARM

Scale: 3/64" = 1'-0"

GENERAL NOTES

1. SEE POWER PLANS FOR FIRE ALARM CONTROL PANEL AND POWER SUPPLY CIRCUITS.
2. ALL DEVICES SHOWN THIS SHEET ARE APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS ON SITE TO ACCOMMODATE FURNITURE, LIGHT FIXTURES, ETC. ENSURE STROBE COVERAGE REQUIRED BY NFPA 72 IS MAINTAINED IF STROBES ARE RELOCATED FOR COORDINATION.
3. ALL FIRE ALARM CABLING SHALL BE SUPPORTED SEPARATELY FROM OTHER LOW VOLTAGE CABLING ABOVE LAY-IN CEILINGS. FIRE ALARM WIRING IN AREAS WHERE THERE IS NO LAY-IN CEILINGS SHALL BE IN CONDUIT.
4. SEE DETAIL 1 / E3.1 FOR INSTALLATION DETAILS.
5. LOCATE SMOKE DETECTOR MINIMUM 3'-0" FROM HVAC DIFFUSERS. ENSURE COVERAGE IS MAINTAINED IF SMOKES ARE RELOCATED FOR COORDINATION.
6. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR FIRE ALARM HORN AND STROBE DEVICES.
7. ALL DEVICES IN MECHANICAL ROOMS SHALL BE LAID OUT ON-SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN THE ROOM.
8. ALL FIRE ALARM PULL, JUNCTION BOXES, AND THEIR COVERS SHALL BE PAINTED RED AND HAVE "FIRE ALARM" WRITTEN ON THE COVER IN LARGE BLACK NON-WASHABLE INK. THE LETTERING SHALL BE SUCH THAT IT CAN BE READ FROM 10' AWAY. NOTE THAT THIS REQUIREMENT IS IN ADDITION TO THE NEC REQUIREMENTS WHICH REQUIRE THAT THE BOX ITSELF BE MARKED IN RED.
9. CIRCUIT ALL 120V POWER NEEDED FOR FIRE SMOKE DAMPERS AND FIRE SHUTTERS THROUGH EXISTING PANEL "LE". USE EXISTING SPARE (16) 20/1 AND PROVIDE (8) 20A/1 MATCHING EXISTING AND INSTALL AS SPARE IF UNUSED.

PLAN NOTES (X)

501	PROVIDE SURFACE MOUNT FIRE ALARM COMMAND CENTER WITH MICROPHONE AND ANNUNCIATOR.
502	PROVIDE FIRE ALARM CONTROL PANEL. CIRCUIT TO EXISTING 20A/1P BREAKER IN PANEL "LE".
503	PROVIDE MAGNETIC DOOR HOLD PER DETAIL 3/E3.0.
505	WALL MOUNTED DEVICES IN GREENHOUSE FROM MULLIONS. VERIFY EXACT LOCATION AND MOUNTING REQUIREMENTS PRIOR TO ROUGH-IN. ALL DEVICES AND CONDUIT IN GREENHOUSE TO BE WEATHERPROOF SEAL TIGHT AND CORROSION RESISTANT.
506	PROVIDE MONITOR MODULE ON DUST COLLECTOR FIRE SUPPRESSION SYSTEM CONNECTED TO THE FIRE ALARM
509	SMOKE DAMPER BY HVAC CONTRACTOR (120V) POWER FROM FIRE ALARM SYSTEM PROVIDE CONTROL MODULE. COORDINATE LOCATION WITH HVAC CONTRACTOR TYPICAL. SEE DETAIL 2/E3.1.
519	PROVIDE COMMAND MODULE AND ALL FIRE ALARM DEVICES IDENTIFIED IN DETAIL 3/E3.1 FOR FIRE SHUTTER.
525	PROVIDE AV SOUND RACK CONTROL MODULE. UPON ACTIVATION OF THE FIRE ALARM SOUND SYSTEM SHALL MUTE. COORDINATE WITH SOUND SYSTEM CONTRACTOR.
526	PROVIDE SMOKE DETECTION ON AND ABOVE CLOUD CEILINGS.

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Milwaukee, Wisconsin 53204
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Sheet Number:
E3.0

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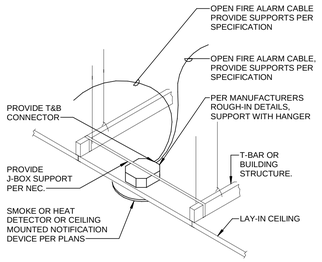
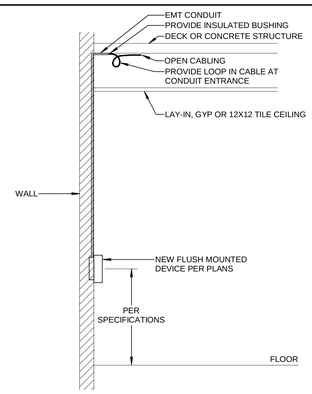


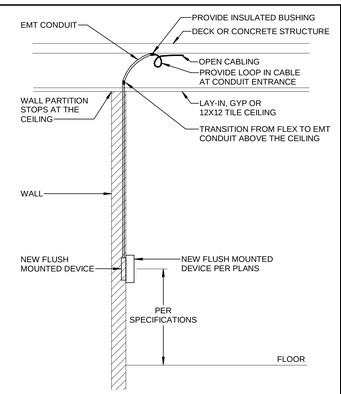
GENERAL NOTE:

1. BOX TO BE ACCESSIBLE VIA CEILING TILE, AND HAVE FRONT COVER WITH PAINTED RED "FA".

DETAIL ILLUSTRATING NEW FLUSH MOUNTED CEILING DEVICE, IN LAY-IN CEILING
NTS



DETAIL ILLUSTRATING NEW FLUSH MOUNTED WALL DEVICE
NTS



DETAIL ILLUSTRATING NEW WALL MOUNTED DEVICE IN PARTITION WALLS
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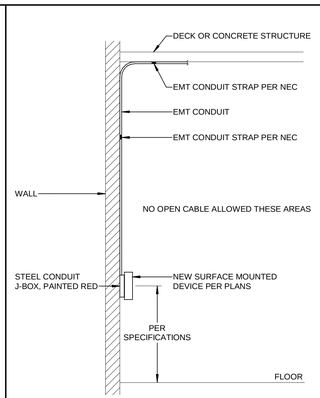

DETAIL ILLUSTRATING NEW SURFACE MOUNTED WALL DEVICE IN MECHANICAL SPACES
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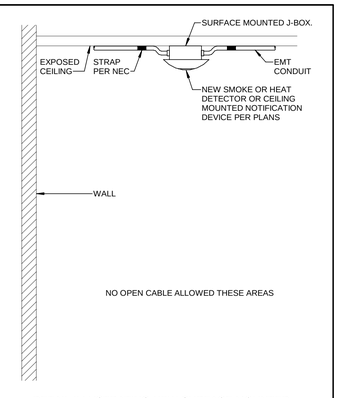

DETAIL ILLUSTRATING NEW SURFACE MOUNTED CEILING DEVICE IN UNFINISHED AREAS
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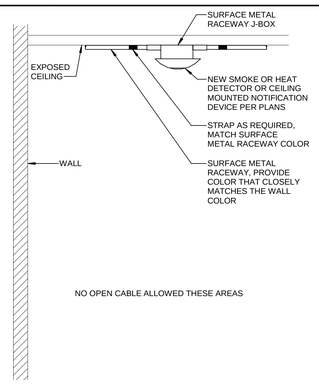

DETAIL ILLUSTRATING NEW SURFACE MOUNTED CEILING DEVICE IN FINISHED AREAS
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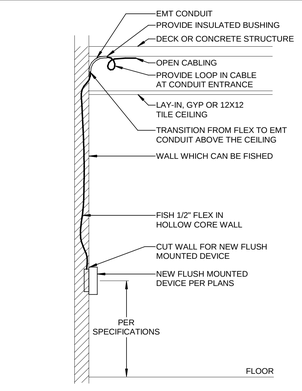

DETAIL ILLUSTRATING NEW FLUSH MOUNTED WALL DEVICE IN EXISTING FACILITIES
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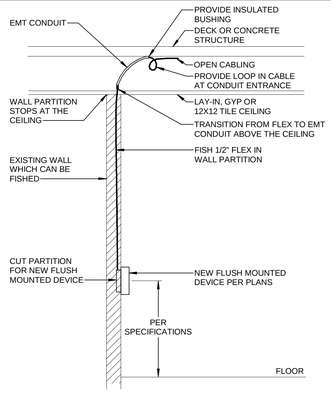

DETAIL ILLUSTRATING NEW MOUNTED WALL DEVICE IN EXISTING PARTITION WALLS
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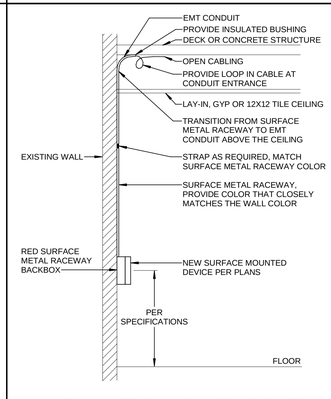

DETAIL ILLUSTRATING NEW SURFACE MOUNTED WALL DEVICE IN EXISTING FACILITIES
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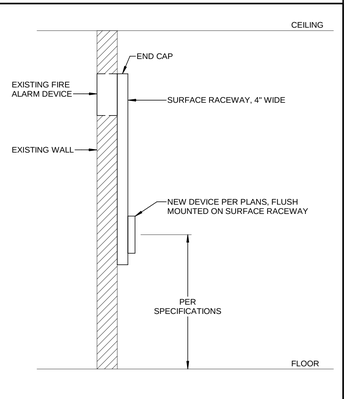

DETAIL ILLUSTRATING NEW SURFACE MOUNTED WALL DEVICE IN EXISTING FACILITIES
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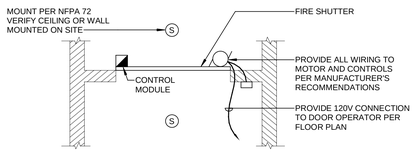
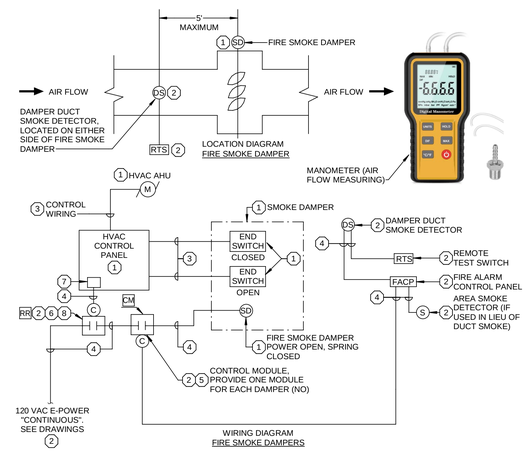
1 E3.1 FIRE ALARM DEVICE INSTALLATION DETAILS (NEW AND EXISTING FACILITIES)
SCALE: NTS



NOTES:

1. PROVIDE ALL FLUSH MOUNTED OUTLET BOXES WHERE WALL IS NEW OF WALL IS HOLLOW AND CAN BE FISHED.
2. IF EXISTING WALL CAN NOT BE FISHED, PROVIDE SURFACE METAL RACEWAY FOR CABLING. PROVIDE FIRE ALARM INTERFACE IN DOOR CONTROLLER ABOVE.
3. PROGRAM FIRE ALARM SYSTEM SUCH THAT DOOR CLOSES ONLY WHEN LOCAL SMOKE DETECTORS ARE ACTIVATED.

3 E3.1 FIRE SHUTTER INSTALLATION DETAIL
SCALE: NTS



GENERAL NOTES:

1. MOUNT REMOTE TEST STATION ON NEAREST WALL THAT PROVIDES ACCESS. IN INSTALLATIONS WHERE TWO OR MORE FIRE SMOKE DAMPERS ARE INSTALLED TOGETHER, MOUNT ALL TEST SWITCHES IN ONE AREA.
2. PROVIDE WIRING PER MANUFACTURE SPECIFICATIONS.
3. AT EACH RETURN AIR DUCT SMOKE DETECTOR AND/OR DETECTOR SERVING A SMOKE DAMPER, MEASURE AND RECORD THE PRESSURE DIFFERENTIAL AT EACH DEVICE TO VERIFY COMPLIANCE WITH THE UNIT MANUFACTURER REQUIREMENTS FOR PROPER AIRFLOW. ALL PRESSURE DIFFERENTIAL READINGS SHALL BE COMPILED IN ONE TABLE AND SUBMITTED WITH THE O&M MANUAL AT THE END OR THE PROJECT. PROVIDE THESE READINGS TO THE LOCAL AHJ AND/OR FIRE INSPECTOR UPON REQUEST PRIOR TO THE SUBMITTAL OF THE O&M MANUAL.

2 E3.1 FIRE ALARM DUCT DETECTOR INSTALLATION FOR FIRE SMOKE DAMPER POWER OPEN SPRING CLOSED
SCALE: NTS

SYSTEM OPERATION

NORMAL OPERATION OF THE AHU:

1. WHEN THE HVAC SYSTEM IS CALLING FOR THE *AHU TO OPERATE. THE TEMPERATURE CONTROL PANEL SHALL PROVIDE A CONTACT "CLOSURE" SIGNAL TO FIRE SMOKE DAMPER(S) THROUGH THE RIB RELAY.
2. ONCE THE FIRE SMOKE DAMPER IS IN THE FULLY OPEN POSITION, THE END SWITCH OF THE SMOKE DAMPER WILL SEND A SIGNAL TO THE TEMPERATURE CONTROL PANEL STATING IT IS FULLY OPEN THUS ALLOWING THE AHU TO OPERATE.
3. WHEN THE AHU IS TURNED OFF THE TEMPERATURE CONTROL PANEL WILL TURN OFF THE AHU AND WILL "OPEN" THE CONTACT, OF THE RIB RELAY, ALLOWING THE FIRE SMOKE DAMPER TO CLOSE MANUALLY VIA SPRING RETURN.

DUCT SMOKE DETECTOR SENSES SMOKE:

1. UNDER NORMAL OPERATION WHERE THE DUCT SMOKE DETECTOR DOES NOT SENSE SMOKE THE FIRE ALARM CONTROL PANEL SHALL CLOSE THE NORMALLY "OPEN" CONTACT (FAIL SECURE) OF THE FIRE ALARM CONTROL MODULE ALLOWING THE AHU TO OPERATE NORMALLY AS STATED ABOVE. THE TEMPERATURE CONTROL PANEL WILL OPEN THE SMOKE DAMPER THROUGH THE RIB RELAY WHICH WILL FEED ALL OF THE CONTROL MODULES ASSOCIATED WITH THE AHU. NOTE THERE WILL BE ONE CONTROL MODULE FOR EACH FIRE SMOKE DAMPER. WHEN MULTIPLE CONTROL MODULES ARE USED CONNECT THE 120 VOLT CONTACTS IN PARALLEL BETWEEN THE RIB RELAY AND THE SMOKE FIRE DAMPER(S).
2. IF THE DUCT SMOKE DETECTOR SENSES SMOKE IT WILL THEN DE-ENERGIZE OR "OPEN" ALL OF THE CONTROL MODULES FOR THE SMOKE DAMPERS ASSOCIATED WITH THIS AHU. IF MULTIPLE CONTROL MODULES ARE SHOWN CONNECT THEM IN SERIES.

NOTES:

1. THE FIRE SMOKE DAMPER SHALL BE CLOSED ANY TIME THE AHU IS NOT IN OPERATION.
2. *THE ABOVE REFERENCES "AHU" REFERENCES DIFFERENT PIECES OF HVAC EQUIPMENT. SEE DRAWINGS FOR ACTUAL HVAC DEVICE NAME TAG.

PLAN NOTE: (X)

1. EQUIPMENT PROVIDED AND INSTALLED BY HVAC CONTRACTOR.
2. EQUIPMENT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. WIRING PROVIDED AND INSTALLED BY HVAC CONTRACTOR.
4. WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. SEE FLOOR PLANS FOR QUANTITY.
6. EC TO PROVIDE RIB RELAY. VERIFY COIL VOLTAGE 24 VOLT OR 120 VAC WITH HVAC CONTRACTOR.
7. CONNECTION IN HVAC CONTROL PANEL BY HVAC CONTRACTOR. EC TO COORDINATE WITH HVAC CONTRACTOR.
8. MOUNT RIB RELAY IN A NEMA 1 ENCLOSURE, LABEL WHICH DAMPER(S) THIS RELAY CONTROLS. LOCATE ENCLOSURE IN ACCESSIBLE LOCATION SUCH AS ADJACENT FROM HVAC CONTROL PANEL, DUCT DETECTOR REMOTE TEST, OR 120V PANEL FEEDING SMOKE DAMPERS.

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Milwaukee
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Milwaukee, Wisconsin 53204
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Sheet Number:
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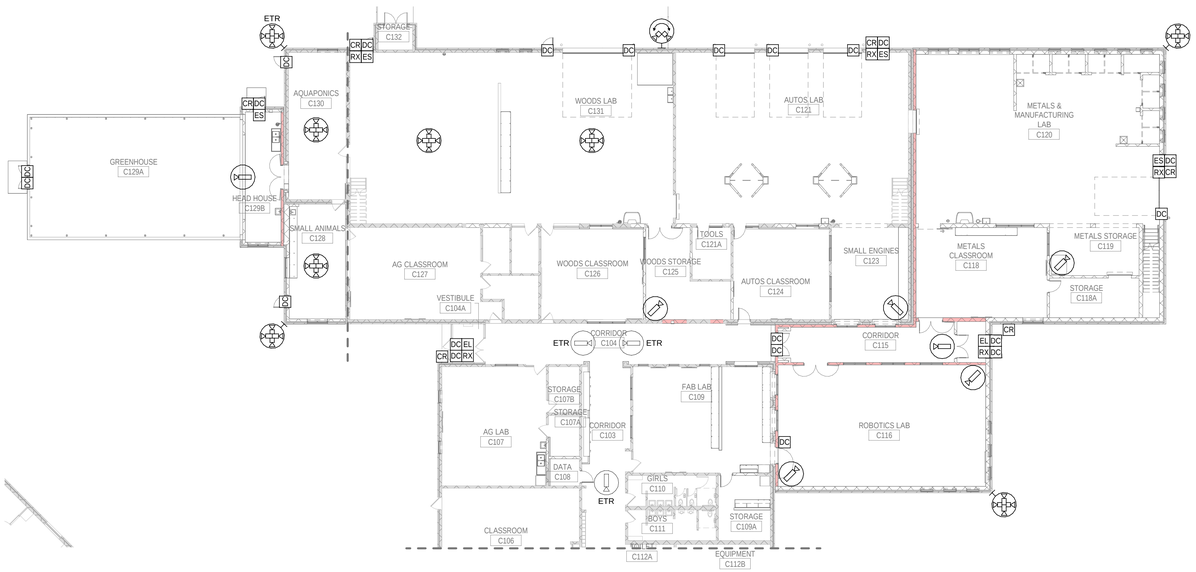
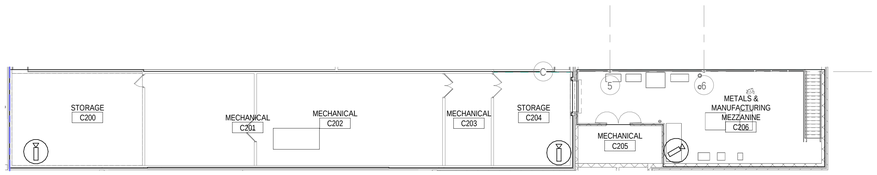
GENERAL NOTES

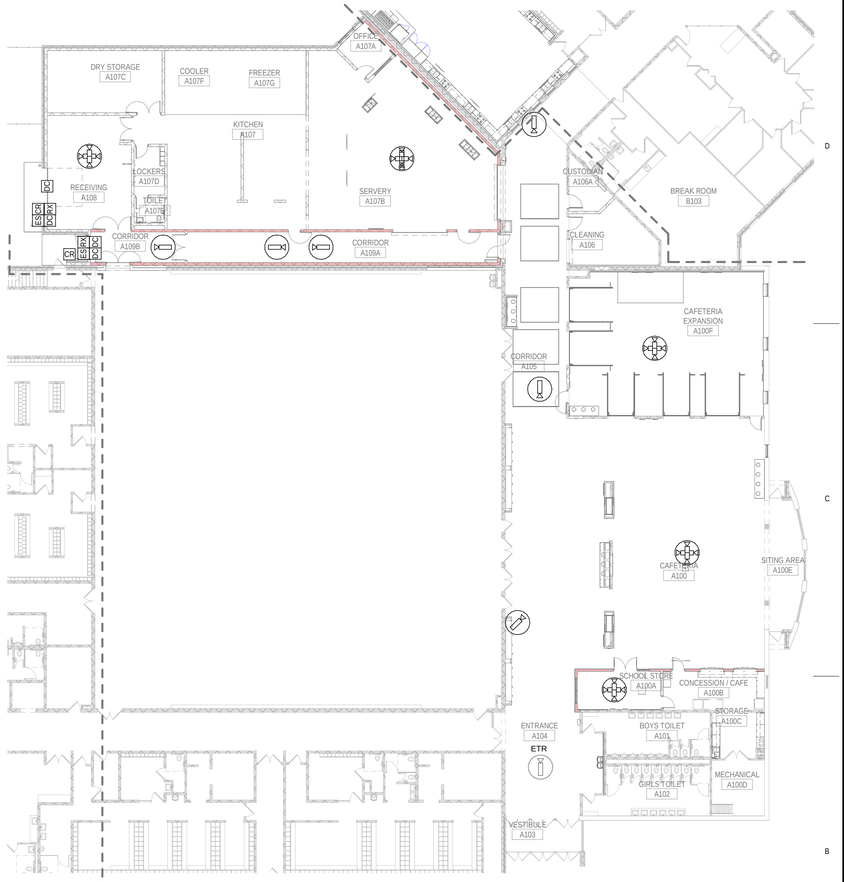
1. ALL CONDUIT AND CABLE FOR EXTERIOR CAMERAS SHALL BE INSTALL PER DETAIL 7/ES.2 .
2. ANY ADDITIONAL 120V POWER REQUIRED FOR KEYLESS ENTRY SYSTEM OR VIDEO SURVEILLANCE SYSTEM SHALL BE PROVIDED FROM NEAREST EXISTING PANELS. PROVIDE ADDITIONAL 20A/1P BREAKERS.
3. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
4. VERIFY ALL LOCATIONS AND MOUNTING HEIGHTS WITH OWNER'S SECURITY CAMERA VENDOR PRIOR TO ROUGH-IN AND INSTALLATION OF CABLING.
5. FOR ALL CAMERAS SHOWN HERE: PROVIDE NEW CAT 6 CABLE WITH A SERVICE LOOP AND TERMINATED TO A BISCUIT ABOVE CEILING. OWNERS VENDOR WILL ATTACH A PATCH CABLE, FURNISH AND INSTALL ALL CAMERAS.
6. FOR ALL CARD ACCESS DEVICES SHOWN HERE: PROVIDE SECURITY COMPOSITE CABLE (BANNA CABLE) THAT GOES FROM THE CENTRAL DOOR CONTROLLERS AND IS COILED ABOVE THE DOORS. SEE ARCHITECURAL FOR DOOR CONTACTS AND ELECTRIC STRIKES/PANICS. OWNERS VENDOR TO MAKE FINAL CONNECTIONS TO CONTACTS, STRIKES, READERS, AND REX (FURNISHED BY HARDWARE SUPPLIER).
7. DOOR CONTROLLER PANELS FOR AREA F WILL BE LOCATED IN DATA C108. DOOR CONTROLLER PANELS FOR AREA B WILL BE LOCATED IN B104 MAIN OFFICE.
8. ALL DOORS SHOWING DOOR CONTACTS ONLY (DC), PROVIDE 22/2 CABLE FROM THE DOOR TO THE DOOR CONTROLLER UNLESS NOTED OTHERWISE.



1 / E4.0 OVERALL FIRST FLOOR - SECURITY F
Scale: 1/16" = 1'-0"



3 / E4.0 OVERALL FIRST FLOOR - SECURITY F - TECH MEZZ
Scale: 1/16" = 1'-0"



2 / E4.0 OVERALL FIRST FLOOR - SECURITY AREA B
SCALE: NTS

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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

#	DATE	DESCRIPTION

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Project Number:
3705

Sheet Title:
OVERALL SECURITY FLOOR PLANS

Sheet Number:
E4.0

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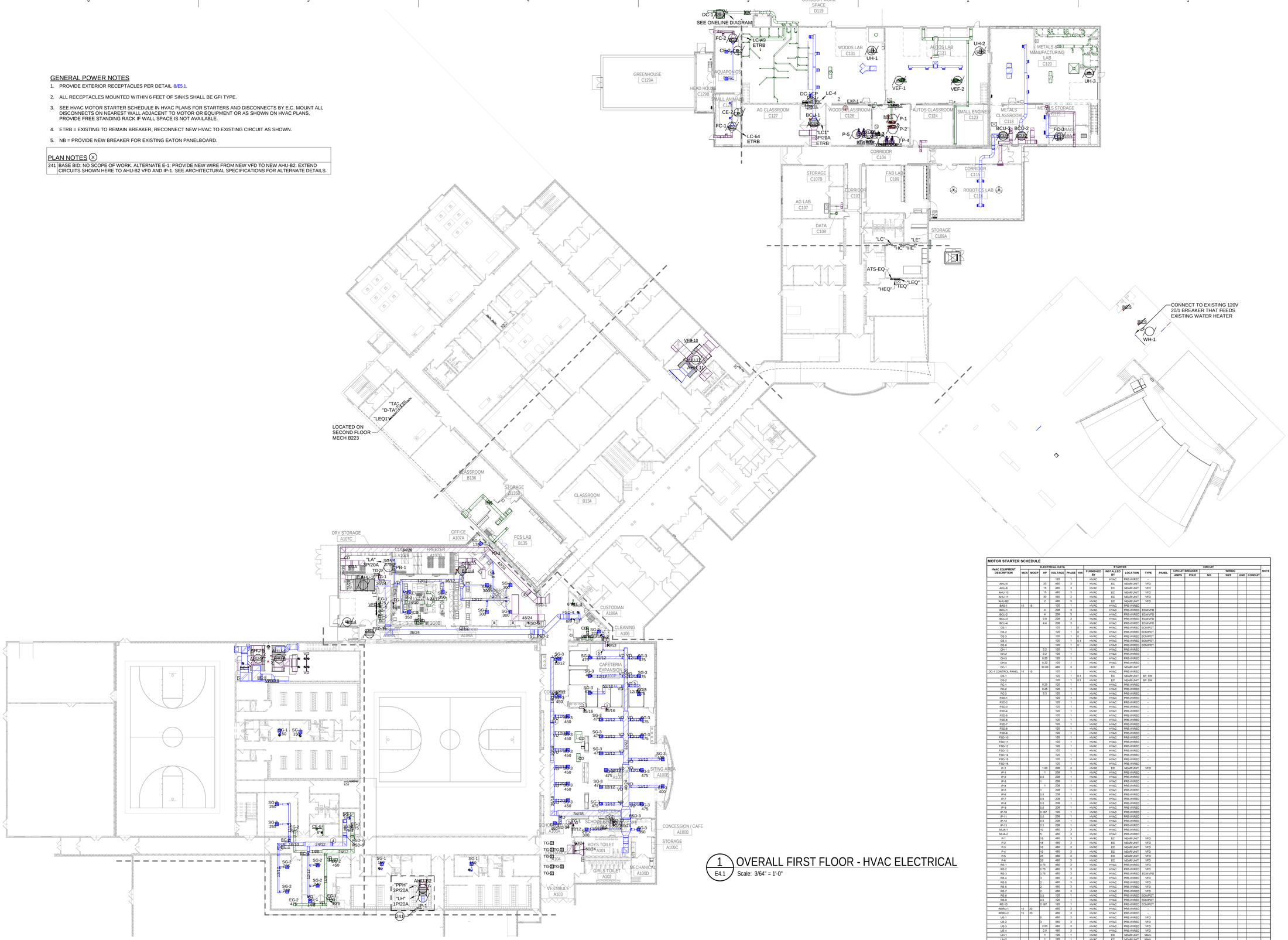
GENERAL POWER NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 8/ES1.
2. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
3. SEE HVAC MOTOR STARTER SCHEDULE IN HVAC PLANS FOR STARTERS AND DISCONNECTS BY E.C. MOUNT ALL DISCONNECTS ON NEAREST WALL ADJACENT TO MOTOR OR EQUIPMENT OR AS SHOWN ON HVAC PLANS. PROVIDE FREE STANDING RACK IF WALL SPACE IS NOT AVAILABLE.
4. ETRB = EXISTING TO REMAIN BREAKER, RECONNECT NEW HVAC TO EXISTING CIRCUIT AS SHOWN.
5. NB = PROVIDE NEW BREAKER FOR EXISTING EATON PANELBOARD.

PLAN NOTES (X)

241 BASE BID: NO SCOPE OF WORK. ALTERNATE E-1: PROVIDE NEW WIRE FROM NEW VFD TO NEW AHU-B2. EXTEND CIRCUITS SHOWN HERE TO AHU-B2 VFD AND IP-1. SEE ARCHITECTURAL SPECIFICATIONS FOR ALTERNATE DETAILS.



1 E4.1 OVERALL FIRST FLOOR - HVAC ELECTRICAL

Scale: 3/64" = 1'-0"

MOTOR STARTER SCHEDULE

HVAC EQUIPMENT DESCRIPTION	ELECTRICAL DATA MCA	MOCP	HP	VOLTAGE	PHASE	KW	STARTER FURNISHED BY	INSTALLED BY	LOCATION	TYPE	CIRCUIT PANEL	CIRCUIT BREAKER AMPS	POLE	NO.	WIRING SIZE	GND	CONDUIT	NOTE
				120	1		HVAC	HVAC	PRE-WIRED									
AHU-5			20	480	3		HVAC	EC	NEAR UNIT	VFD								
AHU-6			15	480	3		HVAC	EC	NEAR UNIT	VFD								
AHU-10			15	480	3		HVAC	EC	NEAR UNIT	VFD								
AHU-11			30	480	3		HVAC	EC	NEAR UNIT	VFD								
AHU-B2			2	480	3		HVAC	EC	NEAR UNIT	VFD								
BAS-1	15	15		120	1		HVAC	HVAC	PRE-WIRED									
BCU-1			4	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD								
BCU-2			4	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD								
BCU-3			0.8	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD								
BCU-4			4.4	208	3		HVAC	HVAC	PRE-WIRED	ECM/VFD								
CE-1				120	1	0	HVAC	HVAC	PRE-WIRED	ECM/POT								
CE-2				120	1	0	HVAC	HVAC	PRE-WIRED	ECM/POT								
CE-3				120	1	0	HVAC	HVAC	PRE-WIRED	ECM/POT								
CE-4				120	1	0.1	HVAC	HVAC	PRE-WIRED	ECM/POT								
CE-6				120	1	0	HVAC	HVAC	PRE-WIRED	ECM/POT								
CH-1			0.2	120	1		HVAC	HVAC	PRE-WIRED	-								
CH-2			0.2	120	1		HVAC	HVAC	PRE-WIRED	-								
CH-3			0.20	120	1		HVAC	HVAC	PRE-WIRED	-								
CH-4			0.20	120	1		HVAC	HVAC	PRE-WIRED	-								
DC-1			30.00	480	3		HVAC	EC	NEAR UNIT	-								
DC-1 CONTROL PANEL	15	15		120	1		HVAC	HVAC	PRE-WIRED									
DS-1				120	1	0.1	HVAC	EC	NEAR UNIT	SP, SW								
DS-2				120	1	0.1	HVAC	EC	NEAR UNIT	SP, SW								
FC-1			0.25	120	1		HVAC	HVAC	PRE-WIRED	-								
FC-2			0.25	120	1		HVAC	HVAC	PRE-WIRED	-								
FC-3			0.3	120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-1				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-2				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-3				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-4				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-5				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-6				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-7				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-8				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-9				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-10				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-11				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-12				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-13				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-14				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-15				120	1		HVAC	HVAC	PRE-WIRED	-								
FSD-16				120	1		HVAC	HVAC	PRE-WIRED	-								
IF-1			1.00	208	3		HVAC	EC	NEAR UNIT	VFD								
IP-1			1	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-2			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-3			1	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-4			1	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-5			1	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-6			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-7			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-8			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-9			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-10			0.167	120	1		HVAC	HVAC	PRE-WIRED	-								
IP-11			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-12			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
IP-13			0.5	208	1		HVAC	HVAC	PRE-WIRED	-								
MUA-1			10	480	3		HVAC	HVAC	PRE-WIRED									
MUA-2			5	480	3		HVAC	HVAC	PRE-WIRED									
P-1			15	480	3		HVAC	EC	NEAR UNIT	VFD								
P-2			15	480	3		HVAC	EC	NEAR UNIT	VFD								
P-3			10	480	3		HVAC	EC	NEAR UNIT	VFD								
P-4			10	480	3		HVAC	EC	NEAR UNIT	VFD								
P-5			25	480	3		HVAC	EC	NEAR UNIT	VFD								
P-6			25	480	3		HVAC	EC	NEAR UNIT	VFD								
RE-1			0.75	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-2			0.75	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-3			0.75	480	3		HVAC	HVAC	PRE-WIRED	ECM/VFD								
RE-4			3	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-5			3	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-6			2	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-7			2	480	3		HVAC	HVAC	PRE-WIRED	VFD								
RE-8			0.5	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT								
RE-9			0.5	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT								
RE-10			0.167	120	1		HVAC	HVAC	PRE-WIRED	ECM/POT								
RERU-1	15	20		480	3		HVAC	HVAC	PRE-WIRED	-								
RERU-2	15	20		480	3		HVAC	HVAC	PRE-WIRED	-								
UE-1			5	480	3		HVAC	HVAC	PRE-WIRED	VFD								
UE-2			3	480	3		HVAC	HVAC	PRE-WIRED	VFD								
UE-3			2.00	480	3		HVAC	HVAC	PRE-WIRED	VFD								
UE-4			2.0	480	3		HVAC	HVAC	PRE-WIRED	VFD								
UH-1			1	120	1		HVAC	EC	NEAR UNIT	MAN.								
UH-2			1	120	1		HVAC	EC	NEAR UNIT	MAN.								
UH-3			0.33	120	1		HVAC	EC	NEAR UNIT	MAN.								
UH-4			0.13	120	1		HVAC	EC	NEAR UNIT	MAN.								
VEF-1			1	208	3		HVAC	HVAC	PRE-WIRED	-								
VEF-2			1	208	3		HVAC	HVAC	PRE-WIRED	-								
XGFS-1	1	15		120	1		HVAC	HVAC	PRE-WIRED	-								
XUH-10			0.25	120	1		HVAC	EC	NEAR UNIT	MAN.								

GENERAL NOTES:
1. DISCONNECTS FOR HVAC EQUIPMENT FURNISHED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO INSTALL PER MECHANICAL CONTRACTORS REQUIREMENTS.
2. ALL WIRE TO HVAC EQUIPMENT TO BE COPPER ONLY.

SCHEDULE NOTES:
1. CONNECT TO NEAREST 120V RECEPTACLE CIRCUIT.
2. PROVIDE DUCT SMOKE DETECTOR ON THIS HVAC UNIT PER DETAIL 4/E302. PROVIDE REMOTE TEST SWITCH.
3. PROVIDE WEATHERPROOF GFCI RECEPTACLE MOUNTED ON ROOF NEAR HVAC UNIT. CONECT TO NEAREST 120V RECEPTACLE CIRCUIT.
4. UNIT POWERED BY OUTDOOR UNIT EU. WIRE FROM THIS LOCATION TO UNIT.
5. PROVIDE DUCT SMOKE DETECTOR AND ADDRESSABLE CONTROL MODULE TO CONTROL SMOKE DAMPER. E.C. TO PROVIDE WIRING FROM RELAY TO DAMPER ACTUATOR. CIRCUIT TO A 20A/1P BREAKER IN NEAREST PANEL. PROVIDE FIRE ALARM PROGRAMMING FOR SHUTTING DOWN THE AHU FROM ANY OF THE EXISTING SMOKE DETECTORS IN THE CORRIDOR.
6. UPON DETECTION OF SMOKE FROM ANY OF THE EXISTING SMOKE DETECTORS IN THE CORRIDOR ALL FOUR SMOKE DAMPERS SHALL CLOSE AND THE ASSOCIATED AHU SHALL SHUT DOWN THROUGH THE EXISTING FIRE ALARM INTERLOCK. PROVIDE FIRE ALARM PROGRAMMING FOR SHUTTING DOWN THE AHU FROM ANY OF THE EXISTING SMOKE DETECTORS IN THE CORRIDOR.
7. PROVIDE FIRE ALARM CONTROL MODULE TO CONTROL ALL FOUR SMOKE DAMPERS TOGETHER UPON DETECTION OF SMOKE FROM ANY OF THE EXISTING CORRIDOR SMOKE DETECTORS.
8. PROVIDE DUCT DETECTECTOR FOR SMOKE DAMPER PER DETAIL 4/E302

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Milwaukee
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Milwaukee, Wisconsin 53204
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Sheet Title:
OVERALL FIRST FLOOR - HVAC/ PLUMBING ELECTRICAL

Sheet Number:
E4.1

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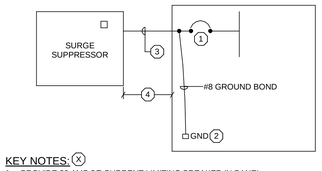
FEEDER SCHEDULE								
IDENTIFIER	AMPACITY	1Ø TWO-WIRE CIRCUIT		1Ø OR 3Ø THREE-WIRE CIRCUIT		3Ø FOUR-WIRE CIRCUIT		EQUIPMENT GROUNDING CONDUCTOR
		CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	
COPPER CONDUCTORS								
1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
6	35	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
7	40	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
8	45	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
9	50	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
10	60	3/4"	(2) #6	3/4"	(3) #6	1"	(4) #6	#10
11	70	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
12	80	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
13	90	1"	(2) #3	1"	(3) #3	1-1/4"	(4) #3	#8
14	100	1-1/4"	(2) #3	1-1/4"	(3) #3	1-1/4"	(4) #3	#8
ALUMINUM CONDUCTORS								
15	110	1-1/4"	(2) #1/0	1"	(3) #1/0	2"	(4) #1/0	#4
16	125	1-1/2"	(2) #2/0	2"	(3) #2/0	2"	(4) #2/0	#4
17	150	1-1/2"	(2) #3/0	2"	(3) #3/0	2"	(4) #3/0	#4
18	175	N/A	N/A	2"	(3) #4/0	2-1/2"	(4) #4/0	#4
19	200	N/A	N/A	2-1/2"	(3) 250KCMIL	2-1/2"	(4) 250KCMIL	#4
20	225	N/A	N/A	2-1/2"	(3) 300KCMIL	2-1/2"	(4) 300KCMIL	#2
21	250	N/A	N/A	2-1/2"	(3) 350KCMIL	3"	(4) 350KCMIL	#2
22	300	N/A	N/A	3"	(3) 500 KCMIL	3"	(4) 500KCMIL	#2
23	350	N/A	N/A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	#1
24	400	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 250KCMIL	(2) 2-1/2"	2 SETS OF (4) 250KCMIL	#1
25	450	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 300KCMIL	(2) 2-1/2"	2 SETS OF (4) 300KCMIL	#1/0
26	500	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 350KCMIL	(2) 3"	2 SETS OF (4) 350KCMIL	#1/0
27	600	N/A	N/A	(2) 3"	2 SETS OF (3) 500KCMIL	(2) 3 1/2"	2 SETS OF (4) 500KCMIL	#2/0
28	700	N/A	N/A	(3) 2-1/2"	3 SETS OF (3) 350KCMIL	(3) 3"	3 SETS OF (4) 350KCMIL	#3/0
29	800	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 250KCMIL	(4) 2-1/2"	4 SETS OF (4) 250KCMIL	#3/0
30	900	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 300KCMIL	(4) 2-1/2"	4 SETS OF (4) 300KCMIL	#4/0
31	1000	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 350KCMIL	(4) 3"	4 SETS OF (4) 350KCMIL	#4/0
32	1200	N/A	N/A	(4) 3"	4 SETS OF (3) 500KCMIL	(4) 3-1/2"	4 SETS OF (4) 500KCMIL	250KCMIL
33	1600	N/A	N/A	(6) 2-1/2"	6 SETS OF (3) 400KCMIL	(6) 3"	6 SETS OF (4) 400KCMIL	350KCMIL
34	1800	N/A	N/A	(6) 3"	6 SETS OF (3) 500KCMIL	(6) 3-1/2"	6 SETS OF (4) 500KCMIL	400KCMIL
35	2000	N/A	N/A	(6) 3"	6 SETS OF (3) 600KCMIL	(6) 3-1/2"	6 SETS OF (4) 600KCMIL	400KCMIL
36	2500	N/A	N/A	(8) 3"	8 SETS OF (3) 600KCMIL	(8) 3-1/2"	8 SETS OF (4) 600KCMIL	600KCMIL
37	3000	N/A	N/A	(10) 3-1/2"	10 SETS OF (3) 500KCMIL	(10) 3-1/2"	10 SETS OF (4) 500KCMIL	600KCMIL
38	4000	N/A	N/A	(12) 3-1/2"	12 SETS OF (3) 600KCMIL	(12) 4"	12 SETS OF (4) 600KCMIL	800KCMIL

PLAN NOTATION:

- ◇ SINGLE-PHASE, TWO-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER
- □ SINGLE OR THREE-PHASE, THREE-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER
- ○ THREE-PHASE, FOUR-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER



KEY NOTES: (X)

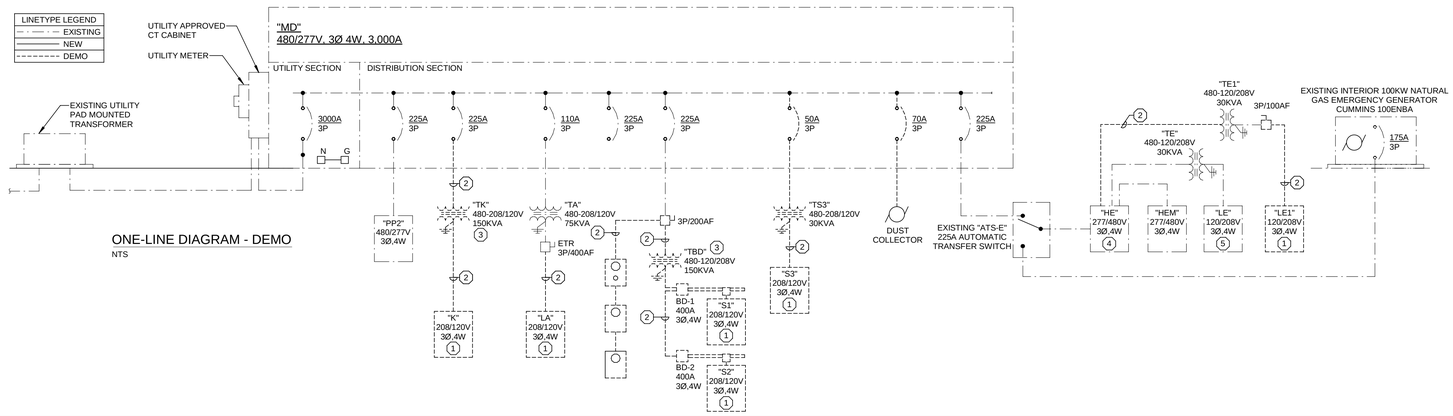
1. PROVIDE 30 AMP 3Ø CURRENT LIMITING BREAKER IN PANEL.
2. MAIN SERVICE PANEL OR DISTRIBUTION PANEL, SEE DRAWINGS.
3. ##10 & #8 GND. IN 1" CONDUIT FOR 30 AMP BUILDING INTERIOR PANEL SURGE SUPPRESSION.
4. CONDUIT AND FEEDER DISTANCE NOT TO EXCEED 5 FEET.

4 / E5.0 SURGE SUPPRESSION CONNECTION

SCALE: NTS

PLAN NOTES: (X)

1. REMOVE EXISTING PANEL, ALL CIRCUIT BREAKERS; AND FEEDER. OVERHEAD BRANCH CIRCUIT WIRING TO BE EXTENDED. PROVIDE NEW HOMERUN BRANCH CIRCUIT FOR ALL EXISTING TO REMAIN BRANCH CIRCUITS THAT ARE ROUTED BELOW GRADE AT REMOVED PANEL LOCATION. FIELD VERIFY. RE-FEED EXISTING TO REMAIN LOADS ABOVE GRADE TO NEW PANEL LOCATION.PANEL TO BE REPLACED WITH NEW PANEL.
2. REMOVE FEEDER WIRE AND CONDUIT.
3. REMOVE TRANSFORMER.
4. SALVAGE CIRCUITS FEEDING "TE" 50A/3, "TE1" 50A/3, AND CIRC PUMP #9 20A/3.
5. SALVAGE EXISTING CIRCUITS FROM BREAKERS FEEDING NON-LIFE SAFETY LOADS. EXISTING BREAKERS TO BE LEFT IN PLACE AND USED AS SPARES OR FOR FIRE ALARM SYSTEM. SEE FIRE ALARM GENERAL NOTES. EXISTING TO REMAIN LIFE SAFTEY CIRCUITS ARE LE-9, LE-11, LE-14, LE-15, LE-17, LE-19.



ONE-LINE DIAGRAM - DEMO

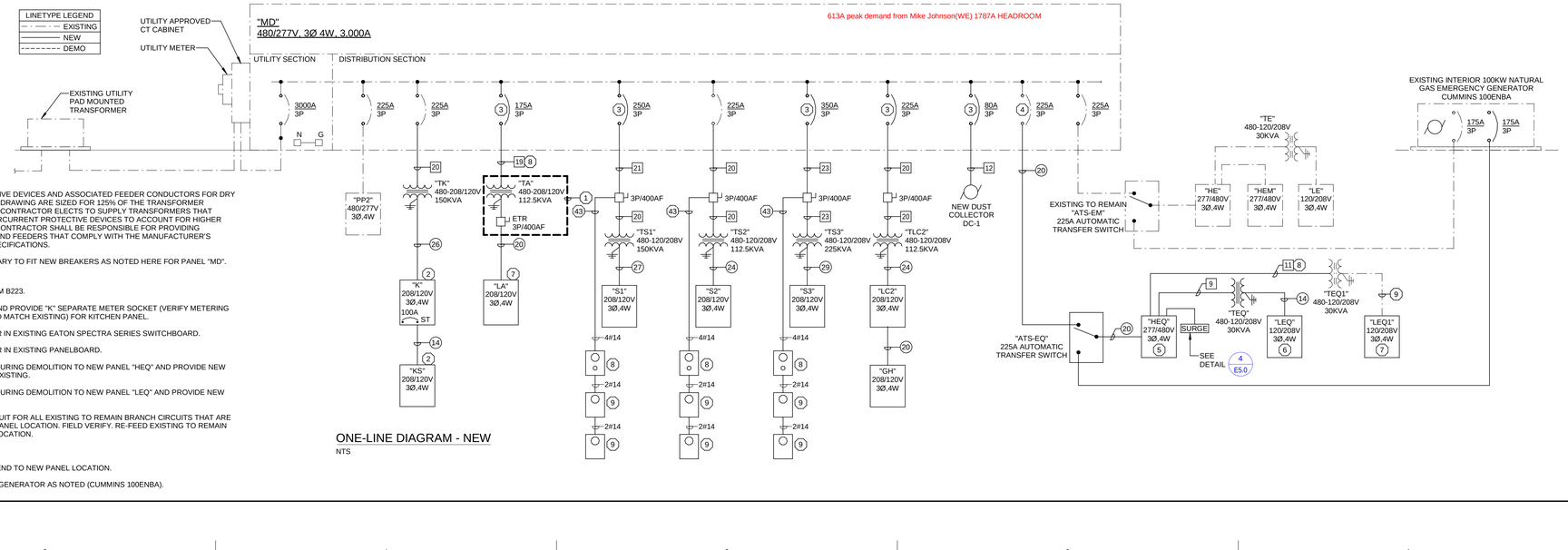
NTS

GENERAL NOTES:

1. THE PRIMARY OVERCURRENT PROTECTIVE DEVICES AND ASSOCIATED FEEDER CONDUCTORS FOR DRY TYPE TRANSFORMERS SHOWN ON THIS DRAWING ARE SIZED FOR 125% OF THE TRANSFORMER NAMEPLATE PRIMARY CURRENT. IF THE CONTRACTOR ELECTS TO SUPPLY TRANSFORMERS THAT REQUIRE HIGHER RATED PRIMARY OVERCURRENT PROTECTIVE DEVICES TO ACCOUNT FOR HIGHER INRUSH CHARACTERISTICS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING OVERCURRENT PROTECTIVE DEVICES AND FEEDERS THAT COMPLY WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATIONS.
2. REMOVE EXISTING SPARES AS NECESSARY TO FIT NEW BREAKERS AS NOTED HERE FOR PANEL "MD".

PLAN NOTES: (X)

1. LOCATED IN AREA D, MECHANICAL ROOM B223.
2. PROVIDE "KS" WITH SHUNT TRIP MAIN AND PROVIDE "K" SEPARATE METER SOCKET (VERIFY METERING METHOD (BAS, METER AND SOCKET AND MATCH EXISTING) FOR KITCHEN PANEL.
3. PROVIDE NEW EATON CIRCUIT BREAKER IN EXISTING EATON SPECTRA SERIES SWITCHBOARD.
4. CONNECT TO EXISTING SPARE BREAKER IN EXISTING PANELBOARD.
5. EXTEND EXISTING CIRCUITS MODIFIED DURING DEMOLITION TO NEW PANEL "HEQ" AND PROVIDE NEW BREAKERS IN PANEL "HEQ" TO MATCH EXISTING.
6. EXTEND EXISTING CIRCUITS MODIFIED DURING DEMOLITION TO NEW PANEL "LEQ" AND PROVIDE NEW BREAKERS TO MATCH EXISTING.
7. PROVIDE NEW HOMERUN BRANCH CIRCUIT FOR ALL EXISTING TO REMAIN BRANCH CIRCUITS THAT ARE ROUTED BELOW GRADE AT REMOVED PANEL LOCATION. FIELD VERIFY. RE-FEED EXISTING TO REMAIN LOADS ABOVE GRADE TO NEW PANEL LOCATION.
8. UPSIZE FOR VOLTAGE DROP.
9. INTERCEPT EXISTING FEEDER AND EXTEND TO NEW PANEL LOCATION.
10. PROVIDE NEW BREAKER FOR EXISTING GENERATOR AS NOTED (CUMMINS 100ENBA).



ONE-LINE DIAGRAM - NEW

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Milwaukee
829 South 1st Street
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Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

	DATE	DESCRIPTION

Issued for:
CONSTRUCTION DOCUMENTS
12/19/2025

Project Number:
3705

Sheet Title:
ONE LINE DIAGRAM & SCHEDULES

Sheet Number:
E5.0

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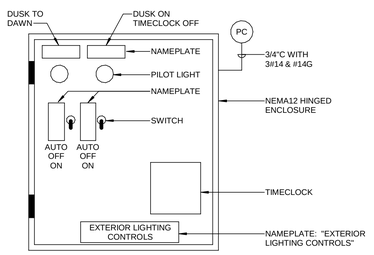
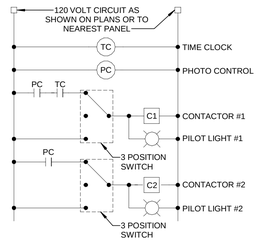
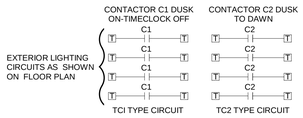




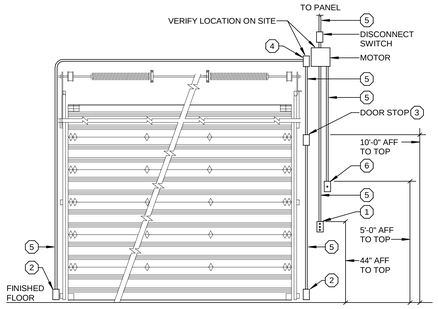
COMPONENTS:

TIMECLOCK:	INTERMATIC ET1725C ELECTRONIC SEVEN DAY
PHOTOCONTROL:	INTERMATIC-K4221 MOUNT WHERE SHOWN ON FLOOR PLANS, OR IF NOT SHOWN, ON NORTH SIDE OF BUILDING.
CONTACTORS:	"SQUARE D" 8903-L040-V02 MINIMUM CONFIGURATION, PROVIDE ADDITIONAL CONTACTOR POLES IF REQUIRED.
PILOT LIGHTS:	120 VOLT LED TYPE. PROVIDE ENGRAVED LABEL INDICATING "DUSK TO DAWN" AND "DUSK ON-TIMECLOCK OFF".
3-POSITION SWITCHES:	CENTER OFF TYPE, HEAVY DUTY TOGGLE SWITCH. PROVIDE ENGRAVED LABEL FOR EACH SWITCH "AUTO-OFF-ON".



T = TERMINAL STRIP

4 E5.1 EXTERIOR LIGHTING CONTROLS
SCALE: NTS

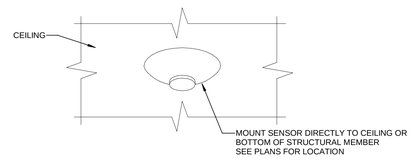


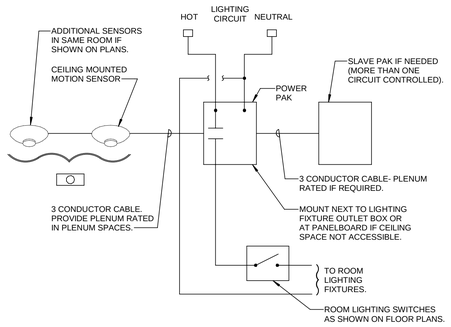
INTERIOR VIEW

PLAN NOTES: (X)

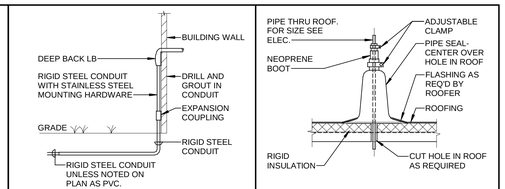
1. 1-GANG PUSH BUTTON DOOR OPENER (FBO) FLUSH MOUNTED ON BUILDING INTERIOR.
2. PROVIDE A FLUSH 1-GANG J-BOX FOR STOP EYE, WIRING BY SUPPLIER.
3. PROVIDE A FLUSH 1-GANG J-BOX FOR STOP SWITCH, WIRING BY SUPPLIER.
4. PROVIDE A FLUSH 1-GANG J-BOX FOR CONTROL, WIRING BY SUPPLIER.
5. PROVIDE A FLUSH MOUNTED 1/2"C.
6. PROVIDE A FLUSH MOUNTED 1-GANG J-BOX FOR DOOR CIRCUIT INDICATER LED. WIRING BY SUPPLIER.

3 E5.1 OVERHEAD GARAGE DOOR DETAIL WITH INDICATOR
SCALE: NTS



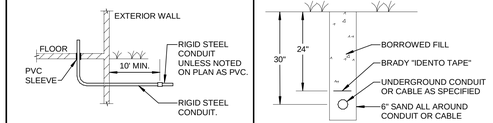


2 E5.1 MOTION SENSOR LIGHTING CONTROL
SCALE: NTS



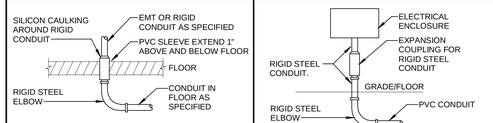
EXTERIOR CONDUIT INTO EXISTING SPACE

ROOF PENETRATION



EXTERIOR CONDUIT INTO NEW SPACE

UNDERGROUND CONDUIT/CABLE INSTALLATION



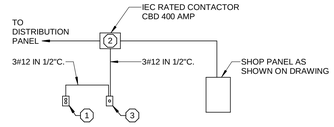
CONDUIT UNDER FLOOR PENETRATION

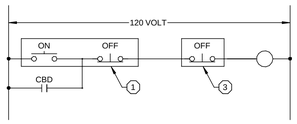
EXTERIOR CONDUIT INTO EXTERIOR ENCLOSURE

NOTES:

1. E.C. MAY USE PVC COATED RIGID STEEL CONDUIT IN LIEU OF RIGID CONDUIT AND PVC SLEEVE.
2. PVC SLEEVE TO BE AS SNUG AS POSSIBLE ON RIGID CONDUIT.

1 E5.1 CONDUIT DETAILS
SCALE: NTS

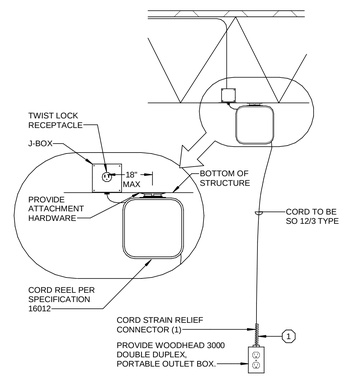




KEY NOTES: (X)

1. PROVIDE SQUARE "D" TYPE KEYED SWITCH, MOMENTARY SPRING RETURN TO CENTER, CENTER OFF, KEY REMOVABLE (XB4BG61) STOP BUTTON WITH MUSHROOM HEAD (ZB4BC4) EMERGENCY ON/OFF OPERATOR. PROVIDE 4 KEYS. MOMENTARY PUSH BUTTON TO BE (ZB4BZ101), BOX TO BE KYAF2 SHEET STEEL. PROVIDE RED ENGRAVED LABEL WITH WHITE LETTERING "SHOP SHUT DOWN".
2. PROVIDE SQUARE "D" 3 POLE IEC RATED ELECTRICALLY HELD CONTACTOR IN NEMA 1 ENCLOSURE. PROVIDE CONTACTS AS SHOWN ON RISER DIAGRAM. PROVIDE AUXILIARY CONTACT FOR HOLD CONTACTS.
3. PROVIDE SQUARE "D" TYPE 9001 MUSHROOM HEAD "OFF" BUTTON MOUNTED IN NEMA 4 ENCLOSURE WHERE SHOWN ON DRAWINGS. PROVIDE ENGRAVED LABEL "SHOP POWER SHUT OFF". MOUNT BUTTON AT 6'-0" AFF. VERIFY ACTUAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.

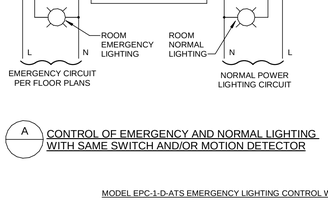
7 E5.1 SHOP SHUT DOWN PANEL DETAIL
SCALE: NTS



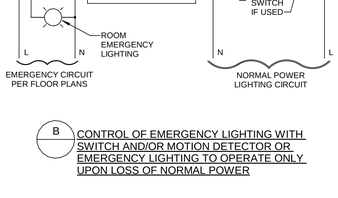
NOTE: (X)

1. CORD STRAIN RELIEF TO BE KELLEMS.

6 E5.1 OPEN CEILING CORD REEL RECEPTACLE DETAIL
SCALE: NTS

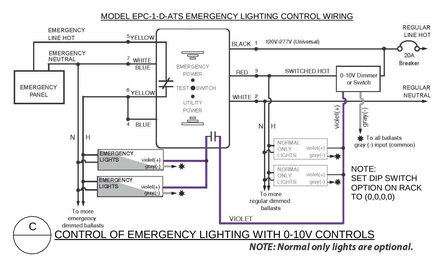


A CONTROL OF EMERGENCY AND NORMAL LIGHTING WITH SAME SWITCH AND/OR MOTION DETECTOR



B CONTROL OF EMERGENCY LIGHTING WITH SWITCH AND/OR MOTION DETECTOR OR EMERGENCY LIGHTING TO OPERATE ONLY UPON LOSS OF NORMAL POWER

MODEL EPC-1-D-ATS EMERGENCY LIGHTING CONTROL WIRING



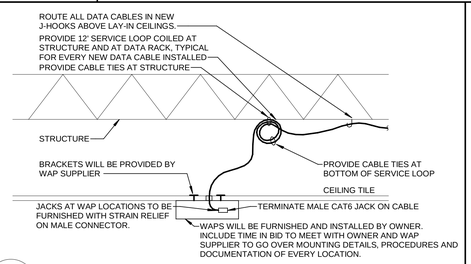
C CONTROL OF EMERGENCY LIGHTING WITH 0-10V CONTROLS

NOTE: Normal only lights are optional.

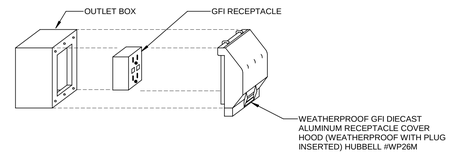
PLAN NOTES: (X)

1. MOUNT IN NEMA 1 VENTED ENCLOSURE, 200% LARGER THAN MODULE(S). MOUNT ADJACENT TO EMERGENCY PANEL. PROVIDE ENGRAVED LABEL ON ENCLOSURE INDICATING FUNCTION IE: "EMERGENCY BYPASS RELAY XXXXXXXX LIGHTING".
2. POWER SUPPLY FOR MOTION DETECTOR ON NORMAL CIRCUIT. DELETE WHEN NOT SHOWN ON DRAWING.
3. SINGLE POLE 3-WAY AND 4-WAY SWITCHES. IF SHOWN ON PLANS.
4. CAP NORMAL SWITCH SENSE LINE WHERE EMERGENCY LIGHTING TO OPERATE ONLY UPON LOSS OF NORMAL POWER.

5 E5.1 EMERGENCY BYPASS DEVICE 0-10V
SCALE: NTS



9 E5.1 WIRELESS ACCESS POINT MOUNTING DETAIL
SCALE: NTS



NOTE:
FOR ALL NEW CONSTRUCTION BOX IS TO BE FLUSH MOUNTED.

OUTLET BOX:
FLUSH: 3 1/2" DEEP 1-GANG MASONRY BOX SURFACE: F.S. BOX

8 E5.1 GFI/WP RECEPTACLE MOUNTING DETAIL
SCALE: NTS

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Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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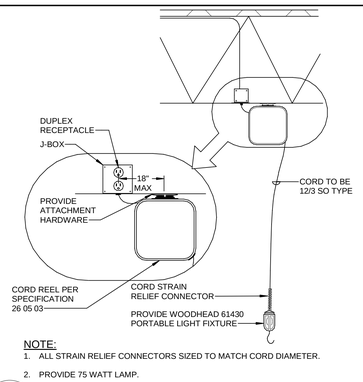
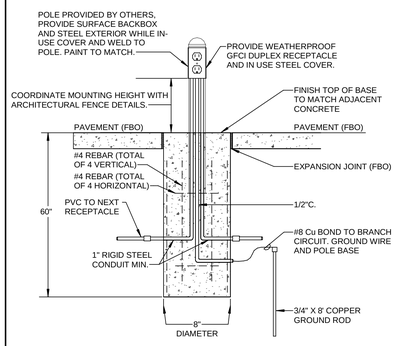
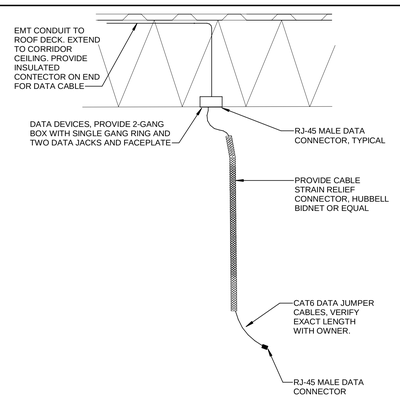


NOTE:
1. ALL STRAIN RELIEF CONNECTORS SIZED TO MATCH CORD DIAMETER.
2. PROVIDE 75 WATT LAMP.

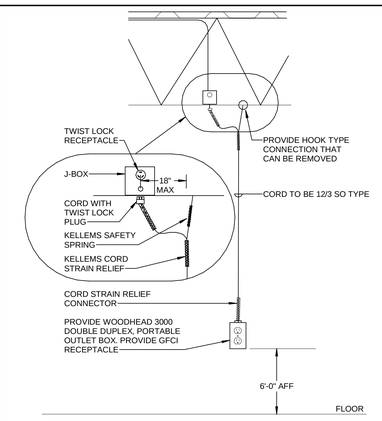
4 / E5.2 OPEN CEILING CORD REEL, LIGHT DETAIL
SCALE: NTS



6 / E5.2 BOLLARD MOUNTED RECEPTACLE DETAIL
SCALE: NTS

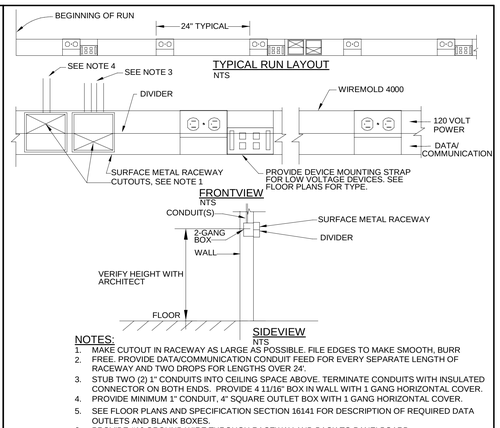


3 / E5.2 DATA DROP DETAIL
SCALE: NTS



NOTE:
1. ALL STRAIN RELIEF CONNECTORS SIZED TO MATCH CORD DIAMETER.

2 / E5.2 OPEN CEILING CORD DROP OUTLET DETAIL
SCALE: NTS

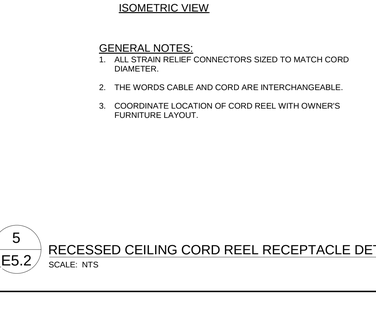


NOTES:
1. MAKE CUTOUT IN RACEWAY AS LARGE AS POSSIBLE. FILE EDGES TO MAKE SMOOTH, BURR FREE. PROVIDE DATA/COMMUNICATION CONDUIT FEED FOR EVERY SEPARATE LENGTH OF RACEWAY AND TWO DROPS FOR LENGTHS OVER 24'.
2. STUB TWO (2) 1" CONDUITS INTO CEILING SPACE ABOVE. TERMINATE CONDUITS WITH INSULATED CONNECTOR ON BOTH ENDS. PROVIDE 4 11/16" BOX IN WALL WITH 1 GANG HORIZONTAL COVER.
3. PROVIDE MINIMUM 1" CONDUIT, 4" SQUARE OUTLET BOX WITH 1 GANG HORIZONTAL COVER.
4. SEE FLOOR PLANS AND SPECIFICATION SECTION 16141 FOR DESCRIPTION OF REQUIRED DATA OUTLETS AND BLANK BOXES.
5. PROVIDE #10 GROUND WIRE THROUGH RACEWAY AND BACK TO PANELBOARD.
6. PROVIDE DUPLEX RECEPTACLES AS SHOWN ON THIS DETAIL.

1 / E5.2 SURFACE METAL RACEWAY DETAIL
SCALE: NTS

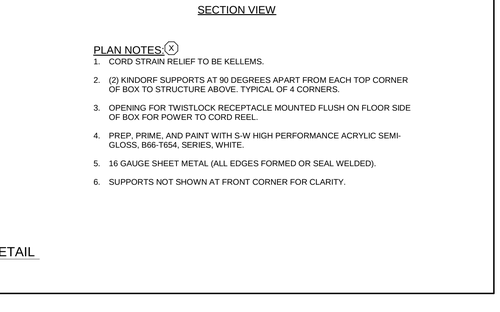


7 / E5.2 EXTERIOR WALL MOUNTED DATA AND CONDUIT PENETRATION DETAIL
SCALE: NTS



ISOMETRIC VIEW

GENERAL NOTES:
1. ALL STRAIN RELIEF CONNECTORS SIZED TO MATCH CORD DIAMETER.
2. THE WORDS CABLE AND CORD ARE INTERCHANGEABLE.
3. COORDINATE LOCATION OF CORD REEL WITH OWNER'S FURNITURE LAYOUT.



SECTION VIEW

PLAN NOTES:(X)
1. CORD STRAIN RELIEF TO BE KELLEMS.
2. (2) KINDORF SUPPORTS AT 90 DEGREES APART FROM EACH TOP CORNER OF BOX TO STRUCTURE ABOVE. TYPICAL OF 4 CORNERS.
3. OPENING FOR TWISTLOCK RECEPTACLE MOUNTED FLUSH ON FLOOR SIDE OF BOX FOR POWER TO CORD REEL.
4. PREP, PRIME, AND PAINT WITH S-W HIGH PERFORMANCE ACRYLIC SEMI-GLOSS, B66-T654, SERIES, WHITE.
5. 16 GAUGE SHEET METAL (ALL EDGES FORMED OR SEAL WELDED).
6. SUPPORTS NOT SHOWN AT FRONT CORNER FOR CLARITY.

5 / E5.2 RECESSED CEILING CORD REEL RECEPTACLE DETAIL
SCALE: NTS

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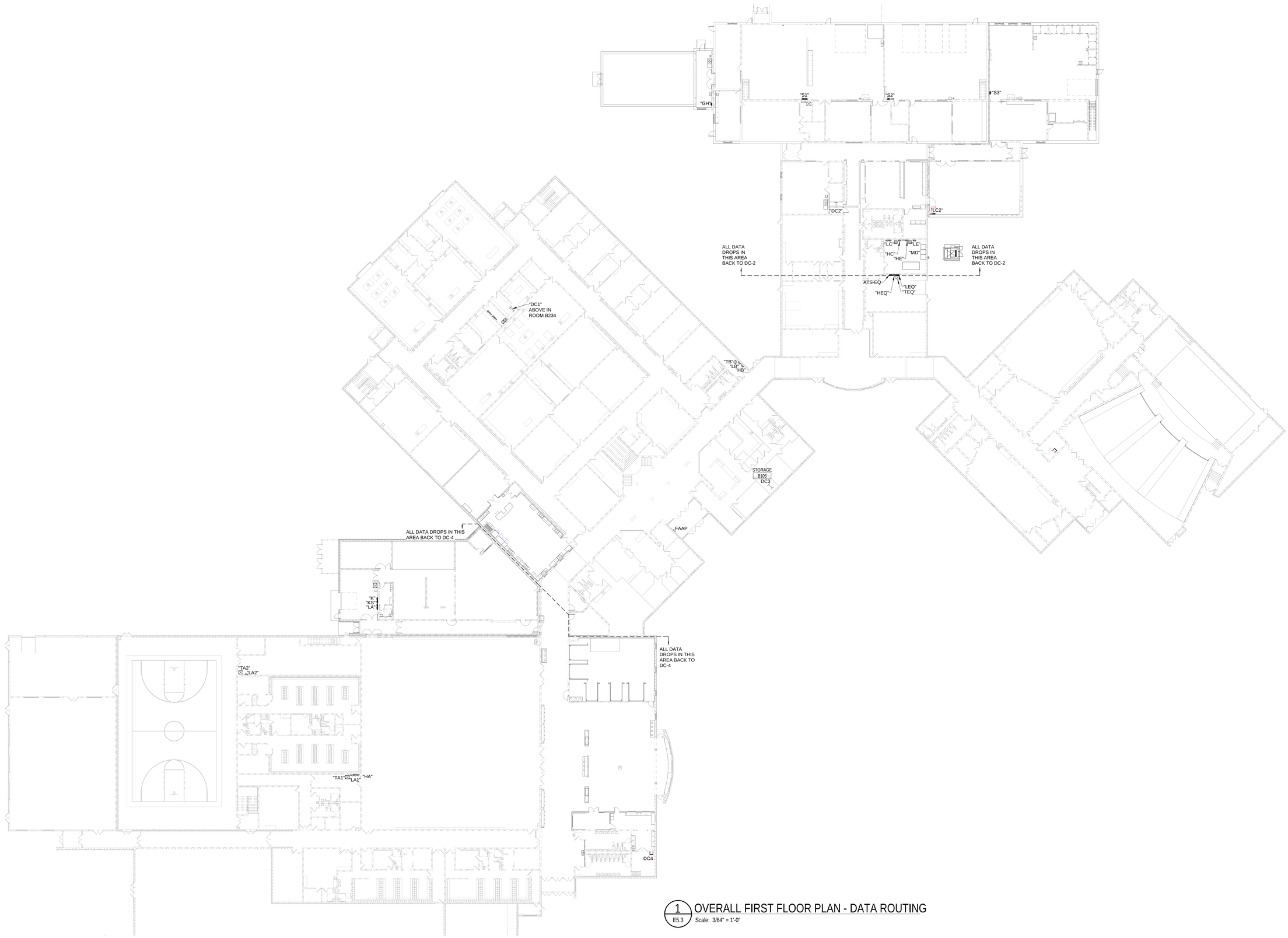

1 E5.3 OVERALL FIRST FLOOR PLAN - DATA ROUTING

Scale: 3/64" = 1'-0"

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Milwaukee, Wisconsin 53204
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Sheet Number:
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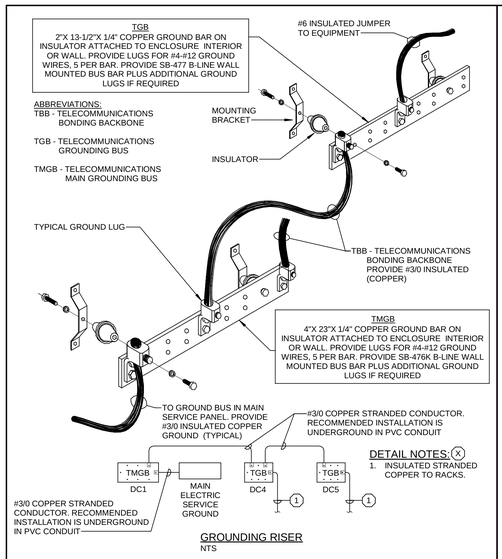
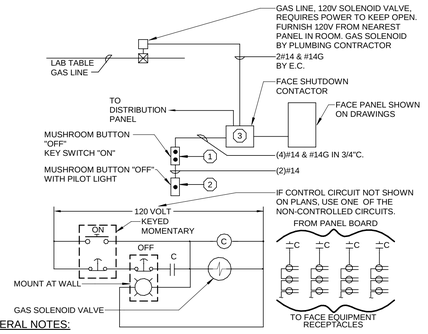


GROUNDING RISER
NTS

DETAIL NOTES: (X)

1. INSULATED STRANDED COPPER TO RACKS.

3 / E5.4 TELECOMMUNICATIONS SYSTEM GROUNDING DETAIL WITH DATA GROUNDING RISER
SCALE: NTS



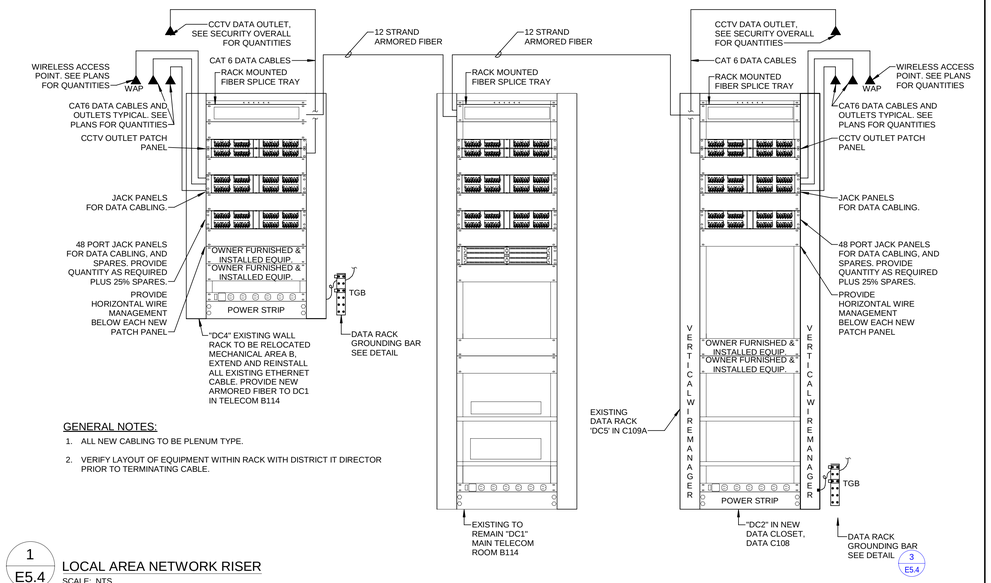
GENERAL NOTES:

1. PROVIDE LABEL "LAB TABLE ELECTRIC & GAS SHUT OFF"
2. LOCATED CONTACTOR ADJACENT TO OR ABOVE PANELBOARD IF NOT SPECIFICALLY SHOWN ON DRAWING. PROVIDE ENGRAVED LABEL ON CONTACTOR, INDICATING FUNCTION AND ROOM CONTROLLED.

KEY NOTES: (X)

1. PROVIDE SQUARE "D" TYPE 9001-KZC-297 STOP BUTTON SHALL HAVE MUSHROOM HEAD OPERATOR , FLUSH MOUNT. PROVIDE 10 KEYS PER SWITCH ALL SWITCHES ON JOB SHALL BE KEYED ALIKE. PROVIDE A 1"X 3" ENGRAVED LABEL ATTACHED TO EACH KEY WITH TYWRAP, ENGRAVED "LAB TABLE POWER CONTROL SWITCH". KEY SWITCH SHALL BE:
   (a) CENTER OFF - KEY REMOVABLE
   (b) TWO (2) POSITION SINGLE THROW, WITH SPRING RETURN TO CENTER.
2. PROVIDE SQUARE "D" TYPE 9001-MUSHROOM HEAD "OFF" PUSH-BUTTON, FLUSH MTD. AT 42" ABOVE FLOOR. MOUNT USING SQUARE "D" K25 PLATE. PROVIDE RED WITH WHITE LETTERS ENGRAVED LABEL "EMERGENCY POWER & GAS OFF. PROVIDE "LED" TYPE RED PILOT LIGHT IN CONJUNCTION WITH OFF SWITCH.
3. PROVIDE SQUARE "D" ELECTRICALLY HELD CONTACTOR WITH HOLDING CONTACT PROVIDE CONTACTS FOR ALL CONTROLLED CIRCUITS PLUS 2 SPARES, PROVIDE MULTIPLE CONTACTORS AS REQUIRED. PROVIDE 120V FROM NEAREST 120V PANEL.

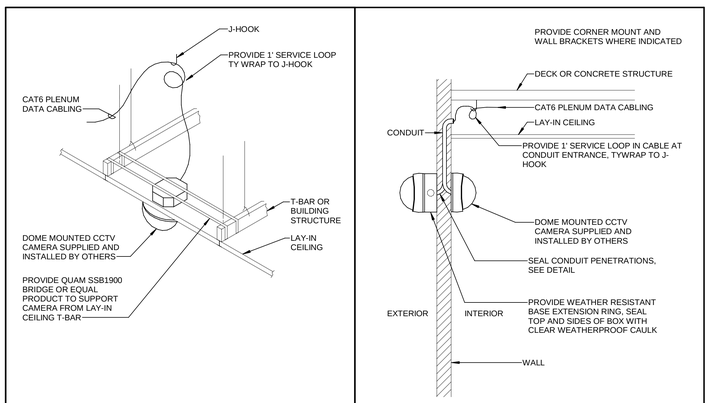
2 / E5.4 FACE POWER & GAS SHUTDOWN DETAIL
SCALE: NTS



GENERAL NOTES:

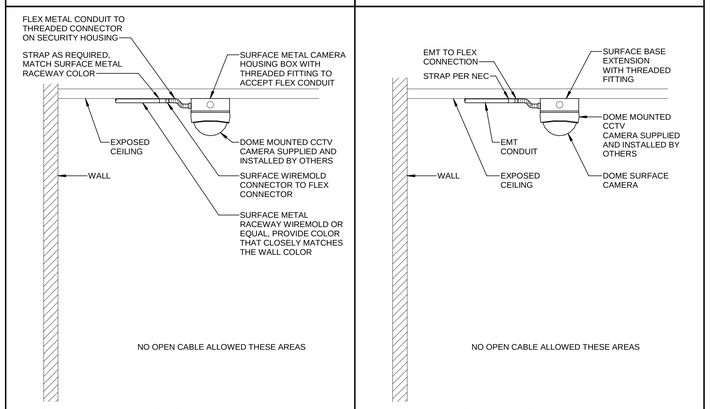
1. ALL NEW CABLING TO BE PLENUM TYPE.
2. VERIFY LAYOUT OF EQUIPMENT WITHIN RACK WITH DISTRICT IT DIRECTOR PRIOR TO TERMINATING CABLE.

1 / E5.4 LOCAL AREA NETWORK RISER
SCALE: NTS



DETAIL ILLUSTRATING NEW
DOME LAY-IN CEILING CAMERA
NTS

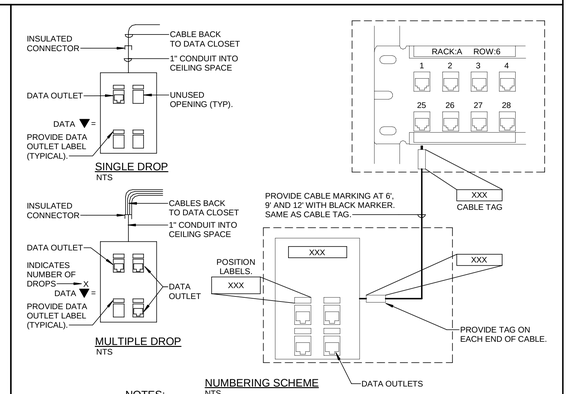
DETAIL ILLUSTRATING NEW FLUSH
MOUNTED WALL CAMERA WITHOUT ARM
NTS



DETAIL ILLUSTRATING NEW SURFACE DOME
CAMERA IN FINISHED AREAS WITH EXPOSED STRUCTURE
NTS

DETAIL ILLUSTRATING NEW SURFACE
MOUNTED DOME CAMERA IN UNFINISHED AREAS
NTS

5 / E5.4 SECURITY CAMERA INSTALLATION DETAILS
SCALE: NTS



SINGLE DROP
NTS

MULTIPLE DROP
NTS

NUMBERING SCHEME
NTS

NOTES:

1. ALL BOXES TO BE 4" SQUARE DEEP WITH 1 OR 2-GANG RING.
2. PROVIDE DATA OUTLETS IN QUANTITY SHOWN ON DRAWINGS.
3. PROVIDE MINIMUM 4 UNIT PLATE. CLOSE ALL UNUSED OPENINGS.
4. PROVIDE OUTLET LABELING AS DIRECTED BY OWNER.
5. IF SHOWN NEXT TO ABOVE COUNTER RECEPTACLE, ASSUME DEVICE MOUNTED ABOVE COUNTER.
6. SEE FLOOR PLANS FOR OTHER DEVICES THAT MAY BE MOUNTED IN CONJUNCTION WITH DATA OUTLETS.

4 / E5.4 TYPICAL TELECOMMUNICATIONS OUTLET CONFIGURATIONS
SCALE: NTS

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com
ENGINEERING DESIGN BY MSA
(800) 362-4505 • www.msa-ps.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

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Sheet Title:
DATA ROUTING DETAILS

Sheet Number:
E5.4

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AUTOS LAB C121

NO.	EQUIPMENT	LOCATION	EQUIPMENT VOLT	Ø	HP	AMPS	KW	MAGNETIC STARTER REQUIRED	NEW EQUIPMENT CORD Y/N	NEW EQUIPMENT CORD SO CORD SIZE	CORD DROP Y/N	CORD DROP SO CORD SIZE	HARD WIRED	CONNECTION: NEMA MALE CORD PLUG STRAIGHT BLADE	NEMA MALE CORD PLUG TWIST LOCK	NEMA FEMALE CORD CONNECTOR STRAIGHT BLADE	NEMA FEMALE CORD CONNECTOR TWIST LOCK	NEMA RECEPTACLE STRAIGHT BLADE	NEMA RECEPTACLE TWIST LOCK	FUSED DISCONNECT POLE	FUSED DISCONNECT AMPS	FUSED DISCONNECT FUSE	RECEPTACLE MOUNTING HEIGHT	CIRCUITING PANEL	CIRCUIT BREAKER GFCI	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLE	WIRING NO.	WIRING SIZE	WIRING GND	WIRING CONDUIT	SEE NOTE
2T	TWO POST LIFT A	C121	208	1	2	12							Y							2	30	25		S2	-	25	2	2	#10	#10	1/2"	1
3T	TWO POST LIFT B	C121	208	1	2	12							Y							2	30	25		S2	-	25	2	2	#10	#10	1/2"	1
4T	BREAK LATHE B	C121	120	1		15	1.12									-	-	5-20 GFCI	-				44"	S2	-	20	1	2	#12	#12	1/2"	1
5T	BREAK LATHE A	C121	120	1		15	1.12									-	-	5-20 GFCI	-				44"	S2	-	20	1	2	#12	#12	1/2"	1
6T	SURFACE-MOUNT SCISSOR LIFT RACK	C121	208	1	4	26							Y							2	60	40		S2	-	60	2	2	#6	#10	3/4"	1
7T	TIRE ALIGNMENT	C121	120	1		15	1									-	-	5-20 GFCI					44"	S2	-	20	1	2	#12	#12	1/2"	1
8T	TIRE BALANCER	C121	208	1		10	2.1									-	-	-	L6-20R				44"	S2	-	20	2	2	#12	#12	1/2"	1
9T	TIRE BALANCER	C121	208	1		10	2.1									-	-	-	L6-20R				44"	S2	-	20	2	2	#12	#12	1/2"	1
10T	TIRE CHANGER B	C121	208	1		14	3.2									-	-	-	L6-20R				44"	S2	-	20	2	2	#12	#12	1/2"	1
11T	TIRE CHANGER B	C121	208	1		14	3.2									-	-	-	L6-20R				44"	S2	-	20	2	2	#12	#12	1/2"	1
12T	TWO POST LIFT C	C121	208	1	3	17							Y							2	30	30		S2	-	30	2	2	#10	#10	1/2"	1
13T	TWO POST LIFT C	C121	208	1	3	17							Y							2	30	30		S2	-	30	2	2	#10	#10	1/2"	1

GENERAL NOTES:
1. MAGNETIC STARTERS TO BE FURNISHED AND INSTALLED BY OWNER WHERE INDICATED. Y = YES EC TO PROVIDE, N = NO NOT REQUIRED.
2. EQUIPMENT CORDS TO BE FURNISHED AND INSTALLED BY E.C. WHERE INDICATED. Y = YES EC TO PROVIDE, N = NO NOT REQUIRED.
3. COORDINATE EXACT PLUG AND RECEPTACLE CONFIGURATION WITH EQUIPMENT.
4. COORDINATE EXACT VOLTAGE, PHASE, AND POWER REQUIREMENTS WITH ALL EQUIPMENT.

PLAN NOTES:
1. VERIFY EXACT EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER'S NEW OR EXISTING EQUIPMENT.

METALS & MANUFACTURING LAB C120

NO.	EQUIPMENT	LOCATION	EQUIPMENT VOLT	Ø	HP	AMPS	KW	MAGNETIC STARTER REQUIRED	VFD REQUIRED	NEW EQUIPMENT CORD Y/N	NEW EQUIPMENT CORD SO CORD SIZE	CORD DROP Y/N	CORD DROP SO CORD SIZE	HARD WIRED	CONNECTION: NEMA MALE CORD PLUG STRAIGHT BLADE	NEMA MALE CORD PLUG TWIST LOCK	NEMA FEMALE CORD CONNECTOR STRAIGHT BLADE	NEMA FEMALE CORD CONNECTOR TWIST LOCK	NEMA RECEPTACLE STRAIGHT BLADE	NEMA RECEPTACLE TWIST LOCK	FUSED DISCONNECT POLE	FUSED DISCONNECT AMPS	FUSED DISCONNECT FUSE	RECEPTACLE MOUNTING HEIGHT	CIRCUITING PANEL	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLE	BRANCH CIRCUIT WIRING NO.	BRANCH CIRCUIT WIRING SIZE	BRANCH CIRCUIT WIRING GND	BRANCH CIRCUIT WIRING CONDUIT	WELDER RECEPTACLE WIRING NO.	WELDER RECEPTACLE WIRING SIZE	WELDER RECEPTACLE WIRING GND	WELDER RECEPTACLE WIRING CONDUIT	SEE NOTE
1M	CHOP SAW	C120	120	1		15		N				N							5-20 GFCI	-				44"	S3	20	1	2	#12	#12	1/2"					1
2M	CMC MILL (secondary rcpt 120V/8A)	C120	208	3		68		N				N	#2-5	Y							3	100	90		S3	100	3	3	#2	#8	1 1/4"					1,2,6
3Ma	CNC PLASMA CKT:A	C120	120	1		15		N				N							5-20 GFCI	-				44"	S3	20	1	2	#12	#12	1/2"					1,2,8
3Mb	CNC PLASMA CKT:B	C120	120	1		15		N				N							5-20 GFCI	-					S3	20	1	2	#12	#12	1/2"					1,2
4M	COLD CUT SAW	C120	120	1		15		N				N							5-20 GFCI	-					S3	20	1	2	#12	#12	1/2"					1,2
5M	DRILL PRESS (METALS) C	C120	120	1		15		N				N							5-20 GFCI	-					S3	20	1	2	#12	#12	1/2"					1
6M	DRILL PRESS (METALS) C	C120	120	1		15		N				N							5-20 GFCI	-					S3	20	1	2	#12	#12	1/2"					1
7M	HYDROLIC SHEAR	C120	208	3	.5	15		N				N		Y							**3**	**30**	**30**		S3	35	3	3	#8	#10	1/2"					1
8M	KNEE MILL (secondary rcpt 120V/8A)	C120	208	3	3	8.5		N				N		Y							3	30	20		S3	20	3	3	#12	#12	1/2"					1,6
9M	KNEE MILL (secondary rcpt 120V/8A)	C120	208	3	3	8.5		N				N		Y							3	30	20		S3	20	3	3	#12	#12	1/2"					1,6
10M	KNEE MILL (secondary rcpt 120V/8A)	C120	208	3	3	8.5		N				N		Y							3	30	20		S3	20	3	3	#12	#12	1/2"					1,6
11M	LATHE	C120	208	3		35		N				N		Y							3	60	50		S3	50	3	3	#8	#10	3/4"					1
12M	LATHE	C120	208	3		35		N				Y	#8-4	Y							3	60	50		S3	50	3	3	#8	#10	3/4"					1
13M	LATHE	C120	208	3		35		N				Y	#8-4	Y							3	60	50		S3	50	3	3	#8	#10	3/4"					1
14M	LATHE A	C120	208	3		35		N				N		Y							3	60	50		S3	50	3	3	#8	#10	3/4"					1
15M	LATHE B	C120	208	1		10		N				Y	#8-4						6-15R						S3	20	1	2	#12	#12	1/2"					1
16M	PEDISTAL GRINDER	C120	120	1	1/2	10		N				N							5-20 GFCI					44"	S3	20	1	2	#12	#12	1/2"					1
17M	SPOT WELDER	C120	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
18M	SPRAY BOOTH B	C120	208	1	3/4	6.9		N				N													S3	20	1	2	#12	#12	1/2"					1
19M	WELDER A	C120	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
20M	WELDER B	C121	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
21M	WELDER B	C122	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
22M	WELDER B	C123	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
23M	WELDER B	C124	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
24M	WELDER B	C125	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
25M	WELDER B	C126	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
26M	WELDER B	C127	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
27M	WELDER B	C128	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
28M	WELDER B	C129	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
29M	WELDER B	C130	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
30M	WELDER B	C131	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
31M	WELDER B	C120	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
32M	WELDER C	C120	208	1		27.2	4.8	N				N							6-50R					44"	S3	50	2	2	#6	#10	3/4"	2	#8	#10	3/4"	1
33M	CNC MILL C (FUTURE)	C120	120	1		0		N				Y	#12-3						5-20 GFCI	-				44"	S3	20	1	2	#12	#12	1/2"					1
34Ma	CNC LATHE (FUTURE)	C120	208	3	7.5	0		N				N		Y							3	60	50		S3	60	3	2	#6	#10	3/4"					1
34Mb	CNC LATHE (FUTURE)	C120	120	1		0		N				N													S3	20	1	2	#12	#12	1/2"					1,2

GENERAL NOTES:
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2. EQUIPMENT CORDS TO BE FURNISHED AND INSTALLED BY E.C. WHERE INDICATED. Y = YES EC TO PROVIDE. N = NO NOT REQUIRED.
3. COORDINATE EXACT PLUG AND RECEPTACLE CONFIGURATION WITH EQUIPMENT.
4. COORDINATE EXACT VOLTAGE, PHASE AND POWER REQUIREMENTS WITH ALL EQUIPMENT.
5. FUSES TO BE DUAL ELEMENT TIME DELAY.

PLAN NOTES:
1. VERIFY EXACT EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER'S NEW OR EXISTING EQUIPMENT.
2. PROVIDE GROUND ROD DRIVEN AT TABLE. BOND GROUND ROD TO TABLE WITH GREEN #4 COPPER WIRE.
3. PROVIDE CONDUIT DROP FROM CEILING.
4. MOUNT RECEPTACLE TO COLUMN.
5. OWNER TO PROVIDE AND INSTALL NEW CORD ON MACHINE.
6. PROVIDE SECONDARY POWER SOURCE, NEMA 5-20R GFCI WITH DEDICATED CIRCUIT TO SAME PANEL.
7. PROVIDE CORD PER DETAIL 2/E205
8. WIRE FOR FUTURE FIBER LASER. PROVIDE SPACE UNDER BREAKER FOR FUTURE 20A/2 BREAKER FOR FIBER LASER

WOODS LAB C131

NO.	EQUIPMENT	LOCATION	EQUIPMENT VOLT	Ø	HP	AMPS	KW	MAGNETIC STARTER REQUIRED	NEW EQUIPMENT CORD Y/N	NEW EQUIPMENT CORD SO CORD SIZE	CORD DROP Y/N	CORD DROP SO CORD SIZE	HARD WIRED	CONNECTION: NEMA MALE CORD PLUG STRAIGHT BLADE	NEMA MALE CORD PLUG TWIST LOCK	NEMA FEMALE CORD CONNECTOR STRAIGHT BLADE	NEMA FEMALE CORD CONNECTOR TWIST LOCK	NEMA RECEPTACLE STRAIGHT BLADE	NEMA RECEPTACLE TWIST LOCK	FUSED DISCONNECT POLE	FUSED DISCONNECT AMPS	FUSED DISCONNECT FUSE	RECEPTACLE MOUNTING HEIGHT	CIRCUITING PANEL	CIRCUIT BREAKER GFCI	CIRCUIT BREAKER AMPS	CIRCUIT BREAKER POLE	WIRING NO.	WIRING SIZE	WIRING GND	WIRING CONDUIT	SEE NOTE
1W	BAND SAW A	C131	120	1	1	9										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1
2W	BAND SAW B	C131	120	1	1	9										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1
3W	BAND SAW C	C131	120	1	1.5	14										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
4W	BOFA EXAUST	C131	120	1		19.5							Y			-	-		-				44"	S1		30	1	2	#10	#10	1/2"	
5W	CNC (EXISTING)	C131	230	1		10										-	-	6-20	-				44"	S1		20	2	2	#12	#12	1/2"	
6W	CNC (new)	C131	230	1		10										-	-	6-20	-				44"	S1		20	2	2	#12	#12	1/2"	
7W	DISC/DISC SANDER	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
8W	DRILL PRESS (WOODS) B	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
9W	DRILL PRESS (WOODS) B	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1,2
10W	EDGE SANDER	C131	120	1		(24)										-	-	-	L5-30				44"	S1		30	1	2	#8	#10	3/4"	1
11W	JOINTER	C131	208	3		20					Y	12-4	Y							3	30	20		S1		20	3	3	#12	#12	3/4"	1
12W	LASER ENGRAVER	C131	120	1		10										-	-	5-20 GFCI	-				44"	S1		20	3	3	#12	#12	1/2"	1
13W	MITER SAW PORTABLE	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1,3,8
14W	MITER SAW SLIDING	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1,3,8
15W	MITER SAW STATIONARY	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
16W	PANEL SAW	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
17W	POCKET HOLE	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
18W	ROUTER TABLE A	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
19W	ROUTER TABLE A	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
20W	ROUTER TABLE B	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
21W	ROUTER TABLE B	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
22W	SANDER	C131	230	1	7.5	(49)							Y							2	100	60		S1		80	2	2	#4	#8	1"	
23W	SPINDLE SANDER	C131	120	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
24W	SPRAY BOOTH	C131	208	1	3	17							Y											S1		20	3	3	#12	#12	3/4"	
25W	TABLE SAW A	C131	208	1	2	13					Y	12-4												S1		20	1	2	#12	#12	1/2"	
26W	TABLE SAW A	C131	208	1	2	13					Y	12-4												S1		20	1	2	#12	#12	1/2"	
27W	TABLE SAW B	C131	120	1		13					Y	12-4				-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
28W	TABLE SAW B	C131	120	1		13					Y	12-4				-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	
29W	WOOD LATHE	C131	208	1		4										-	-	6-20	-				44"	S1		35	2	2	#8	#10	1/2"	
30W	WOOD PLANER	C131	208	1	5	28							Y											S1		60	2	2	#6	#10	3/4"	1
31W	WOOD PLANER (SMALL)	C131	110	1		15										-	-	5-20 GFCI	-				44"	S1		20	1	2	#12	#12	1/2"	1,5

GENERAL NOTES:
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2. EQUIPMENT CORDS TO BE FURNISHED AND INSTALLED BY E.C. WHERE INDICATED. Y = YES EC TO PROVIDE, N = NO NOT REQUIRED.
3. COORDINATE EXACT PLUG AND RECEPTACLE CONFIGURATION WITH EQUIPMENT.
4. COORDINATE EXACT VOLTAGE, PHASE, AND POWER REQUIREMENTS WITH ALL EQUIPMENT.
5. FUSES TO BE DUAL ELEMENT TIME DELAY.

PLAN NOTES:
1. VERIFY EXACT EQUIPMENT CONNECTION REQUIREMENTS WITH OWNER'S NEW OR EXISTING EQUIPMENT.
2. JDS SENSING SAF-START MODEL 1996 PROVIDED BY THE OWNER.
3. PROVIDE NEMA L5-15 MALE CORD END ON OWNER PROVIDED 15 AMP JDS SENSING SAF-START UNIT.
4. EQUIPMENT CONNECTION REQUIREMENTS ARE UNKNOWN. COORDIANTE WITH OWNER.
5. MOUNT RECEPTACLE TO COLUMN.
6. PROVIDE NEMA L5-20 MALE CORD END ON OWNER PROVIDED 20 AMP JDS SENSING SAF-START UNIT.
7. PROVIDE DISCONECT SWITCH MOUNTED TO EQUIPMENT WITH CONDUIT DROP FROM CEILING.
8. PROVIDE CORD PER DETAIL 2/E205
9. PROVIDE LONGER EQUIPENT CORD ON MACHINE. VERIFY EXACT LENGTH WITH OWNER.
10. CONENCT NEW CIRCUIT TO EXISTING DISCONENCT SWITCH MOUNTED ON EQUIPMENT.

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
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Moline • Saint Paul
www.brayarch.com

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Sheet Title:
SHOP ELECTRICAL EQUIPMENT SCHEDULES

Sheet Number:
E6.0

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WHITEWATER HIGH SCHOOL - FIXTURE SCHEDULE

TYPE	DESCRIPTION	LUMENS DEL.	LAMP TYPE	WATTS	MANUFACTURER	CATALOG NUMBER	NOTE
A2	RECESSED 2X4 LAY-IN FLAT PANEL LUMINAIRE	4000	4000K LED	45	LITHONIA	EPANL-2X4-4000LM-80CRI-40K-MIN10-ZT-MVOLT	
					DAY-BRITE	2FPZ-48L-840-4-DS-UNV-DIM	
A3	RECESSED 2X4 LAY-IN FLAT PANEL LUMINAIRE	4800	4000K LED	45	LITHONIA	EPANL-2X4-4800LM-80CRI-40K-MIN10-ZT-MVOLT	
					DAY-BRITE	2FPZ-48L-840-4-DS-UNV-DIM	
A4	RECESSED 2X4 LAY-IN FLAT PANEL LUMINAIRE	5400	4000K LED	49	LITHONIA	EPANL-2X4-5400LM-80CRI-40K-MIN10-ZT-MVOLT	
					DAY-BRITE	2FPZ-54L-840-4-DS-UNV-DIM	
A5	RECESSED 2X4 LAY-IN FLAT PANEL LUMINAIRE	6000	4000K LED	55	LITHONIA	EPANL-2X4-6000LM-80CRI-40K-MIN10-ZT-MVOLT	
					DAY-BRITE	2FPZ-60L-840-4-DS-UNV-DIM	
D4	4' INDUSTRIAL LED STRIP FIXTURE - 5000 LUMENS	5000	4000K LED	32	LITHONIA	CLX L48 5000LM SEF RDL MVOLT GZ10 40K 80CRI WH	
					DAY-BRITE	FSS455L840-UNV-DIM	
H1	WALLPACK - SET LOW	2800	4000K LED	20	LUMARK	AWPF28S	
					-	NO EQUAL, TO MATCH EXISTING	
H2	WALLPACK - SET HIGH	4000	4000K LED	28	LUMARK	AWPF28S	
					-	NO EQUAL, TO MATCH EXISTING	
K1	4" RECESSED DOWNLIGHT - 1000 LUMENS - MEDIUM	1000	4000K LED	8.8	GOTHAM	EVO4-40/10-AR-LD-MVOLT-GZ10	
					DMF	M4NCSN MD10940FLO M4TSDWH	
K2	6" CYLINDER DOWNLIGHT - 3500 LUMENS - MEDIUM (PHASE DIM)	2000	4000K LED	8.8	GOTHAM	EVO6CC-40/35-BR-LSS-MD-MVOLT-ELV-JBX-CCAN-C180-DBLB	
					ALW	CRP6-35904055NN-NP01-TB-BK	
L4	4"X8' LINEAR RECESSED - 800 LMF	3200	4000K LED	26	AXIS	BBRLED-800-80CRI-40-FL-4-W-UNV-DP-1-TG9	
					CORELITE	CL4DR	
L8A	4"X8' LINEAR RECESSED - 400 LMF	3200	4000K LED	26	AXIS	BBRLED-400-80CRI-40-FL-8-W-UNV-DP-1-TG9	
					CORELITE	CL4DR	
L8B	4"X8' LINEAR RECESSED - 600 LMF	4800	4000K LED	38	AXIS	BBRLED-600-80CRI-40-FL-8-W-UNV-DP-1-TG9	
					CORELITE	CL4DR	
L8C	4"X8' LINEAR RECESSED - 800 LMF	6400	4000K LED	51	AXIS	BBRLED-800-80CRI-40-FL-8-W-UNV-DP-1-TG9	
					CORELITE	CL4DR	
L8W	4"X8' LINEAR RECESSED - WALLWASH W/FLANGE	3200	4000K LED	36	AXIS	BBRLED-400-80CRI-40-WW-8-W-UNV-DP-1-DF	
					CORELITE	CL4DR	
J1	INTERIOR HIGH-BAY LUMINAIRE - IK10	12,000	4000K LED	76	LITHONIA	REBL-ALO13-MD-UVOLT-SWW3-80CRI-CPTL-DWH-REBLSMB	
					METALUX	UHBS2-1218-MV-L8C5-U	
UC	UNDERCABINET LIGHTING	1,100	4000K LED	15.2	LITHONIA	UPLD-30IN-SWW4-90CRI-WH	
					METALUX	UC SERIES	
V1	4' INDUSTRIAL SEALED LED STRIP FIXTURE	4,000	4000K LED	34	LITHONIA	CSVT-L48-4000LM-MVOLT-40K-80CRI-STSL-WL-CSVTRMBK	
					METALUX	4APVTLD-SL3C3	
V2	8' INDUSTRIAL SEALED LED STRIP FIXTURE	8,000	4000K LED	68	LITHONIA	CSVT-L96-8000LM-MVOLT-40K-80CRI-STSL-WL-CSVTRMBK	
					METALUX	8APVTLD-SL3C3	
Y1	POLE MOUNTED AREA LIGHT	13,000	4000K LED	104	LITHONIA	DSX1 LED P3 40K 70CRI T2M	
					MCGRAW-EDISON	GALN-SA2A-740-U-T2-BZ	
Y2	POLE MOUNTED AREA LIGHT	13,200	4000K LED	104	LITHONIA	DSX1 LED P3 40K 70CRI T3M	
					MCGRAW-EDISON	GALN-SA3A-740-U-T3-BZ	
Y3	POLE MOUNTED AREA LIGHT	13,400	4000K LED	104	LITHONIA	DSX1 LED P3 40K 70CRI T4M	
					MCGRAW-EDISON	GALN-SA3A-740-U-T4-BZ	
Y4	POLE MOUNTED AREA LIGHT	13,400	4000K LED	104	LITHONIA	DSX1 LED P3 40K 70CRI TFTM	
					MCGRAW-EDISON	GALN-SA3A-740-U-T4FT-BZ	
Y5	POLE MOUNTED AREA LIGHT	13,800	4000K LED	104	LITHONIA	DSX1 LED P3 40K 70CRI T5LG	
					MCGRAW-EDISON	GALN-SA3A-740-U-T5LG-BZ	
YF	FLAG POLE FLOOD LIGHT	3400	4000K LED	44	LITHONIA	SAF7 LED P2 80CRI 40K MVOLT 30DEG KM	
					MCGRAW-EDISON	GALN-SA3A-740-U-T5LG-BZ	
LP1	22' SQUARE STRAIGHT POLE W/BASE	-	-	-	UTILITY METALS	SSS4-11-22-5G-DM19AS-VD-DBLXD	2
					ULSI	RPSQ-22-4-11-AB-D1-NB	
	UNIVERSAL SINGLE/DOUBLE FACE EXIT RED LETTERS	-	LED	2	LITHONIA	LQM-S-W-3-R-120/277	1
					SURELITES	LPX6	

GENERAL NOTES:
1. SEE SPECIFICATIONS FOR FIXTURE REQUIREMENTS.
2. ALL INTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 80+. ALL EXTERIOR LED FIXTURES TO HAVE A MINIMUM CRI OF 70+.
3. MOUNT FIXTURES AT HEIGHT INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.
4. ARCHITECT TO SELECT AND APPROVE ALL FINISHES FOR LIGHT FIXTURES, AND FIXTURE ACCESSORIES.
5. PROVIDE GYP. FLANGE WHERE FIXTURES ARE NOT LOCATED IN ACT TILE CEILINGS.

PLAN NOTES:
1. PROVIDE DIRECTION ARROWS AND MOUNTING METHODS AS INDICATED ON PLANS. PROVIDE WIREGUARD IN GYMS OR WHERE NOTED ON PLANS.
2. PROVIDE VIBRATION DAMPENER. PROVIDE CONCRETE POLE BASE PER DETAIL 1/E302.

BRAY ARCHITECTS
Milwaukee
829 South 1st Street
Milwaukee, Wisconsin 53204
T: 414.226.0200
Sheboygan • Davenport
Moline • Saint Paul
www.brayarch.com

ENGINEERING DESIGN BY
MSA
(800) 362-4505 • www.msa-ps.com

Project Title:
ADDITION AND RENOVATIONS
WHITEWATER HIGH SCHOOL
WHITEWATER UNIFIED SCHOOL DISTRICT
534 S. ELIZABETH
WHITEWATER, WI 53190

ISSUANCES + REVISIONS:

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LIGHTING FIXTURE SCHEDULE

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