OELWEIN

ARCHITECT:

MARTIN GARDNER ARCHITECTURE, P.C. 102 S FREDERICK AVENUE SUITE 1 OELWEIN, IA 50662 BRIAN STARK BRIANS@MARTINGARDNERARCH.COM 319-200-8498

STRUCTURAL

HOOTING COYOTE, LLC. 1553 W. MORLEY RD. ELIZABETH, IL 61028 TODD BIRKEL TBIRKEL@HOOTINGCOYOTE.COM 815-858-5514

MECHANICAL / ELECTRICAL

WEST PLAINS ENGINEERING 215 2ND AVENUE SE SUITE 200 CEDAR RAPIDS, IA 52401 DAVID CLARK DAVID.CLARK@WESTPLAINSENGINEERING.COM 319-365-0030

	DRAWING SHEET INDEX
SHEET NUMBER	SHEET NAME
1-COVER	
A000	COVER SHEET
A001	CODE REVIEW
2-CIVIL	
C01	SITE PLAN
3-ARCHITECT	URAL
A101	DEMOLITION PLAN
A102	FLOOR PLAN
A103	ENLARGED PLAN
A104	REFLECTED CEILING DEMOLITION PLAN
A105	REFLECTED CEILING PLAN
A200	SCHEDULES
A300	DETAILS
A400	ELEVATIONS (DEMO)
A401	EXTERIOR ELEVATIONS
A500	INTERIOR ELEVATIONS
A600	SECTIONS
A601	SECTIONS
A700	ROOF PLAN
4-STRUCTUR	AL
S001	STRUCTURAL DESIGN CRITERIA
S100	FOUNDATION / ROOF PLAN
S300	FOUNDATION DETAILS
S400	ROOF DETAILS
5-Mechanical	
M001	MECHANICAL DEMOLITION
M101	HVAC
M201	MECHANICAL SYMBOLS & DETAILS
P101	UNDERFLOOR SANITARY AND VENT
P201	PLUMBING SYMBOLS & DETAILS
6-Electrical	
E001	ELECTRICAL DEMOLITION
E101	LIGHTING PLAN
E201	POWER AND COMMUNICATION
E301	ELECTRICAL SYMBOLS & DETAILS
E401	ELECTRICAL SCHEDULES & SPEC'S



AERIAL SITE PLAN
NTS

GENERAL NOTES:

- 1. ALL WORK ON THIS PROJECT IS TO BE BUILT IN ACCORDANCE TO ALL FEDERAL, STATE, AND LOCAL BUILDING CODES. CONTRACTOR SHALL BRING TO ARCHITECT'S ATTENTION ALL ITEMS REQUIRING INTERPRETATION.
- 2. ALL CONTRACTORS ON THIS PROJECT MUST BE REGISTERED WITH THE STATE OF IOWA. GENERAL CONTRACTOR SHALL OBTAIN A COPY OF THE STATE REGISTRATION AND INSURANCE CERTIFICATES FROM EACH CONTRACTOR AND TRANSMIT TO ARCHITECT PRIOR TO START OF CONSTRUCTION.
- 3. HAZARDOUS MATERIAL: THE OWNER AT THIS TIME HAS NO KNOWLEDGE OF ASBESTOS OR ANY OTHER HAZARDOUS MATERIAL WITHIN OR ADJACENT TO THE EXISTING BUIDLING. SHOULD THE CONTRACTOR OR ANY OF HIS SUBCONTRACTORS ENCOUNTER MATERIAL WHICH THEY SUSPECT TO CONTAIN OR BE CONTAMINATED WITH ASBESTOS OR OTHER HAZARDOUS MATERIAL IN HAZARDOUS FORM, THEY SHOULD IMMEDIATELY:
 - A: CEASE ALL OPERATIONS IN THE AREA OF SUSPECTED MATERIAL.
 - B: NOTIFY THE OWNER VERBALLY AND CONFIRM THE NOTIFICATION IN WRITING. ONCE NOTIFIED, THE OWNER WILL BE RESPONSIBLE TO HAVE THE QUESTIONABLE MATERIAL TESTED AND IF NECESSARY, REMOVED OR STABILIZED.

I hereby certify that the portion of this technical submission described below was prepared by me, or under my idrect supervision and responsible charge. I am a duly registered architect under the laws of the state of lowa. Kyle D. Mar

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n number:	
	D 1 :- :-

Registration Pages or sheets covered by this seal:

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102 S. FREDERICK

AVE

SUITE #1

OELWEIN, IOWA

50662

A000

AREA NAME	FUNCTION	AREA	OCCUPANT LOAD FACTOR	MAX. I	
			-		
BREAKROOM	ASSEMBLY	374 SF	15	2	
LOBBY	ASSEMBLY	242 SF	15		
COUNCIL	ASSEMBLY	1003 SF	15	(
MAPS	BUSINESS	288 SF	150		
OFFICE	BUSINESS	97 SF	150		
OFFICE	BUSINESS	195 SF	150		
WORK	BUSINESS	599 SF	150		
OFFICE	BUSINESS	135 SF	150		
OFFICE	BUSINESS	86 SF	150		
OFFICE	BUSINESS	345 SF	150		
CONFERENCE	BUSINESS	473 SF	150		
			•		
MECH.	MECHANICAL	43 SF	300		
MECH.	MECHANICAL	59 SF	300		
MECH.	MECHANICAL	13 SF	300		
TOILET	RESTROOM	48 SF			
TOILET	RESTROOM	84 SF			
TOILET	RESTROOM	157 SF			
TOILET	RESTROOM	77 SF			
SALLY PORT	STORAGE	869 SF	300		
JAN.	STORAGE	34 SF	300		
VAULT	STORAGE	249 SF	300		
STORAGE	STORAGE	184 SF	300		
STAIR	UNOCCUPIED	140 SF			
CORRIDOR	UNOCCUPIED	182 SF			
ENTRY	UNOCCUPIED	666 SF			
CORRIDOR	UNOCCUPIED	156 SF			
		6799 SF		1	

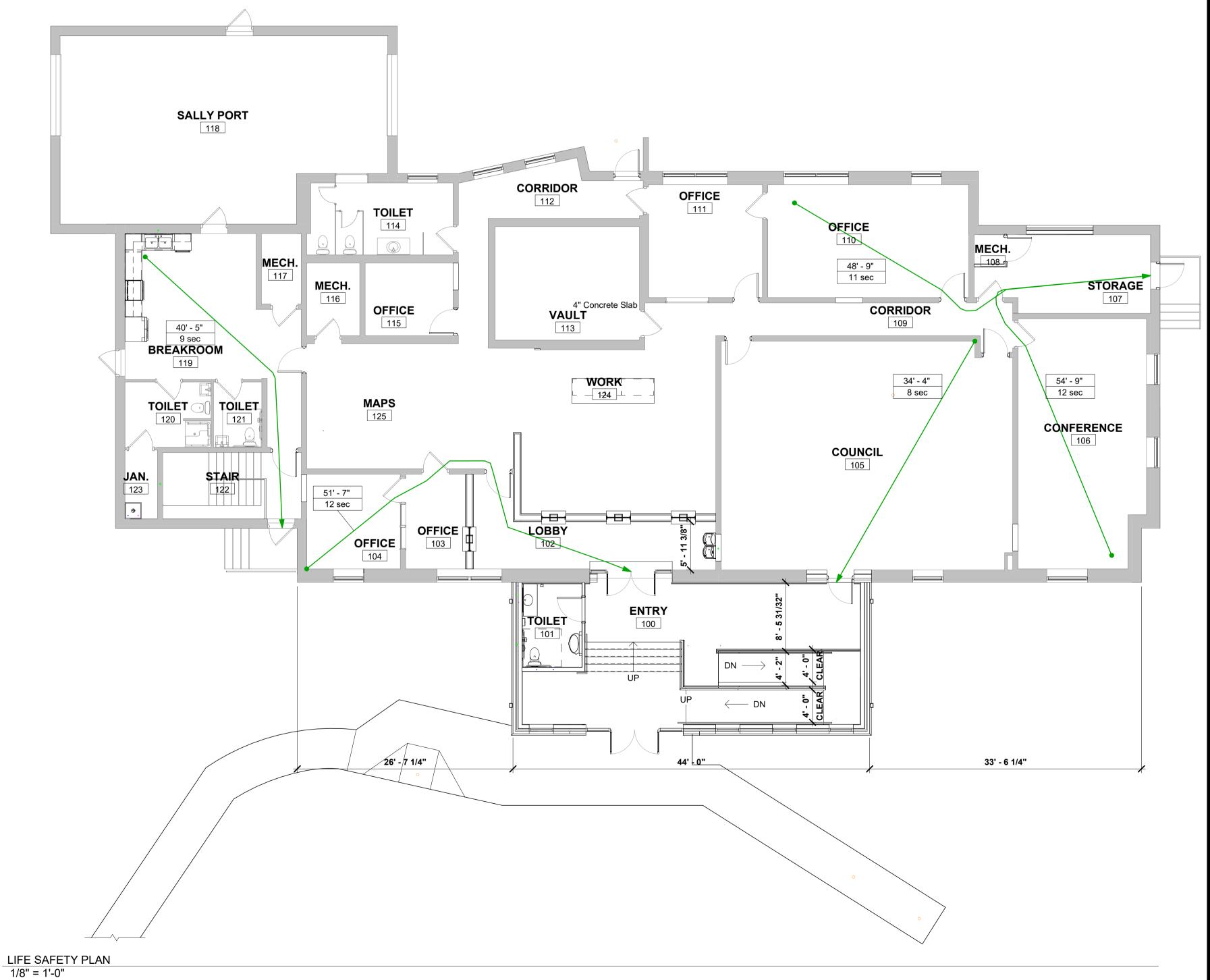
AHJ: CITY OF OELWEIN

ANJ. CITT OF CELVVEIN	
BUILDING CODES 2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL EXISTING BUILDING CODE 2021 INTERNATIONAL FIRE CODE 2021 NATIONAL ELECTRIC CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 UNIFORM PLUMBING CODE 2021 INTERNATIONAL ENERGY CONSERVATION CODE 2010 ADA STANDARDS	
CHAPTER 3 - USE AND OCCUPANCY BUILDING OCCUPANCY TYPE:	В
CHAPTER 5 - GENERAL BUILDING HEIGHTS AND AREAS	
TABLE 504.3 - ALLOWABLE BUILDING HEIGHT ALLOWABLE BUILDING HEIGHT: PROPOSED BUILDING HEIGHT:	40 FT. 20 FT.
TABLE 504.4 - ALLOWABLE NUMBER OF STORIES ALLOWABLE NUMBER OF STORIES: PROPOSED NUMBER OF STORIES:	2 1
TABLE 506.2 - ALLOWABLE AREA FACTOR IN S.F. PROPOSED ADDITION/NEW BUILDING CONSTRUCTION TYPE: ALLOWABLE BUILDING AREA/FLOOR: EXISTING BUILDING CONSTRUCTION TYPE: ALLOWABLE BUILDING AREA/FLOOR:	VB 9,000 S VB 9,000 S
SECTION 506 - BUILDING AND AREA MODIFICATIONS FRONTAGE INCREASE	5,850 S
TOTAL BUILDING PROPOSED AREA (MAIN FLOOR) PROPOSED AREA (OTHER FLOOR)	7,900 S
TOTAL ALLOWABLE BUILDING AREA	14,850
CHAPTER 6 - TYPES OF CONSTRUCTION TABLE 601 - FIRE RESISTANCE RATINGS FOR BUILDING ELEMENTS PRIMARY STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS NONBEARING WALLS FLOORS ROOFS	VB 0 0 0 0 0
CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES SECTION 706 FIRE WALLS TABLE 706.4 FIRE WALL RESISTANCE RATINGS	2 HR
SECTION 707 FIRE BARRIERS TABLE 707.3.10 FIRE RESISTANCE RATINGS SECTION 708 FIRE PARTITIONS SECTION 709 SMOKE BARRIERS SECTION 710 SMOKE PARTITIONS	2 HR 1 HR 1 HR 0 HR
CHAPTER 9 - FIRE PROTECTION SYSTEMS SECTION 903 - SPRINKLER SYSTEM REQUIRED SECTION 907 - FIRE ALARM AND DETECTION SYSTEM	NO NO
CHAPTER 10 - MEANS OF EGRESS SEE CALCULATED OCCUPANCY LOAD OF PROJECT	
TABLE 1016.1 - EXIT ACCESS TRAVEL DISTANCE	100'

INSTRUCTIONS TO CODE OFFICIALS:

TABLE 1021.1 - MIN. NUMBER OF EXITS

UPON COMPLETION OF THE REVIEW OF THESE CONSTRUCTION DOCUMENTS, PLEASE COPY ALL MARKUPS AND/OR COMMENTS TO THE APPLICANT AND THE ARCHITECT.



CITY OF OELWEIN

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MARTIN GARDNER

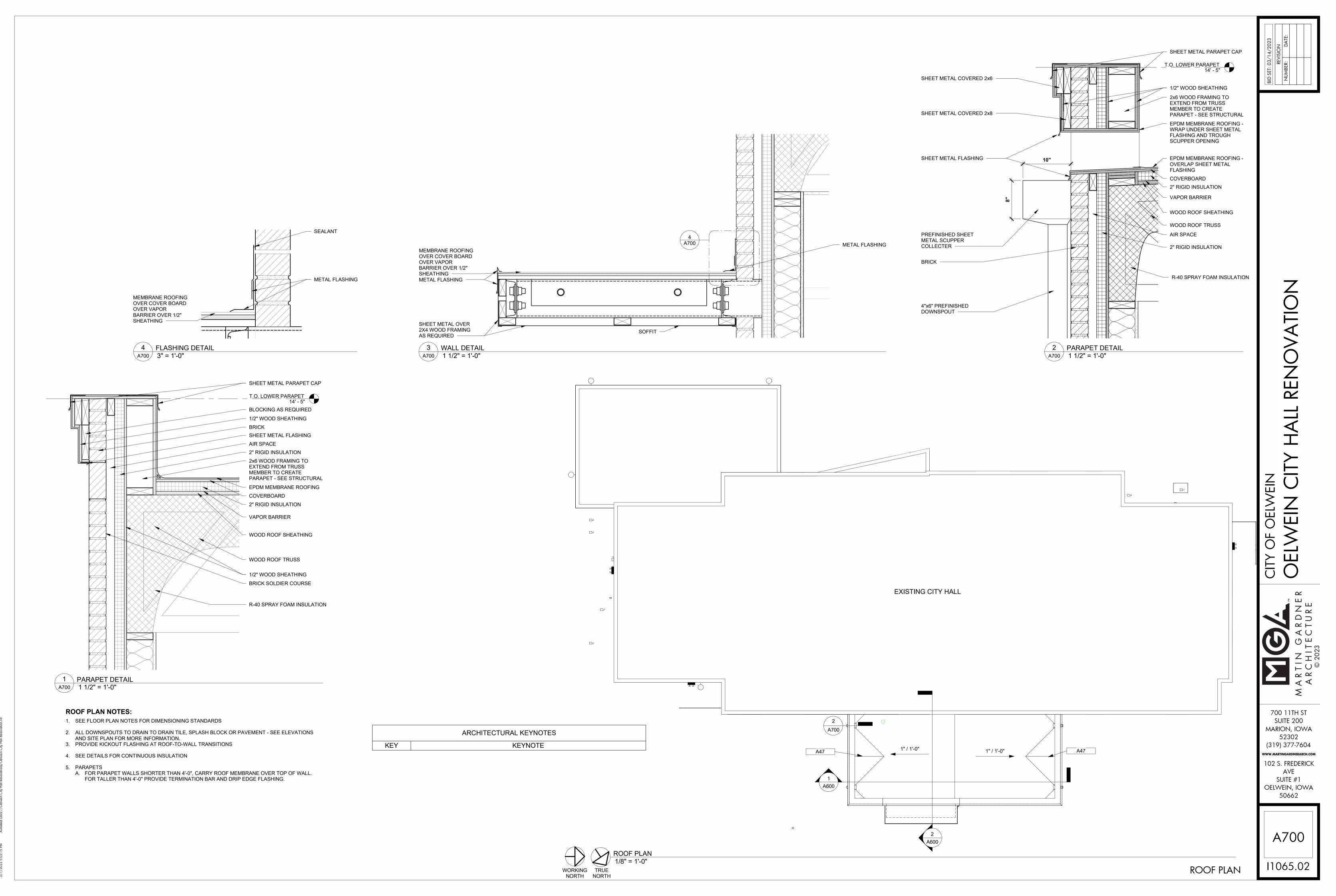
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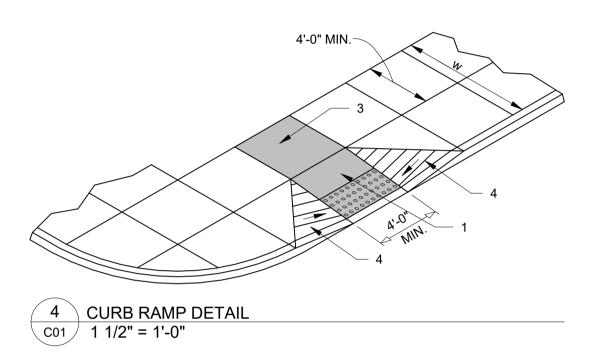
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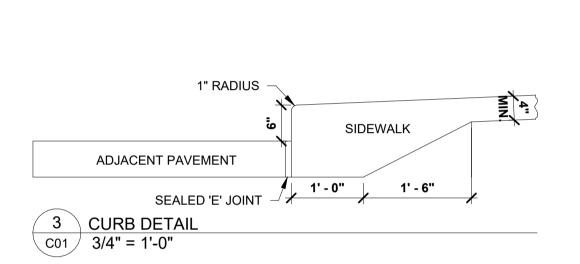
A001

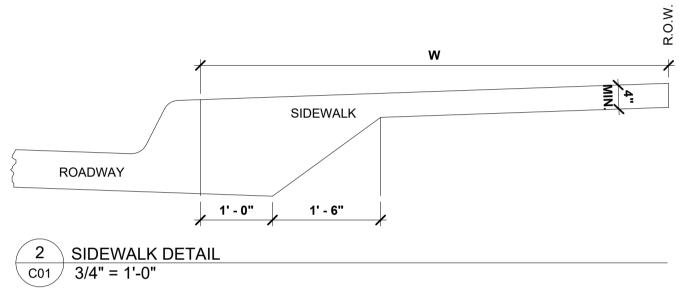
CODE REVIEW 11065.02

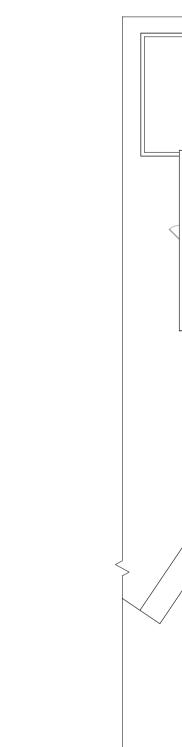


CONTRACTOR TO REMOVE AND REINSTALL DROP BOX. COORDINATE LOCATION WITH



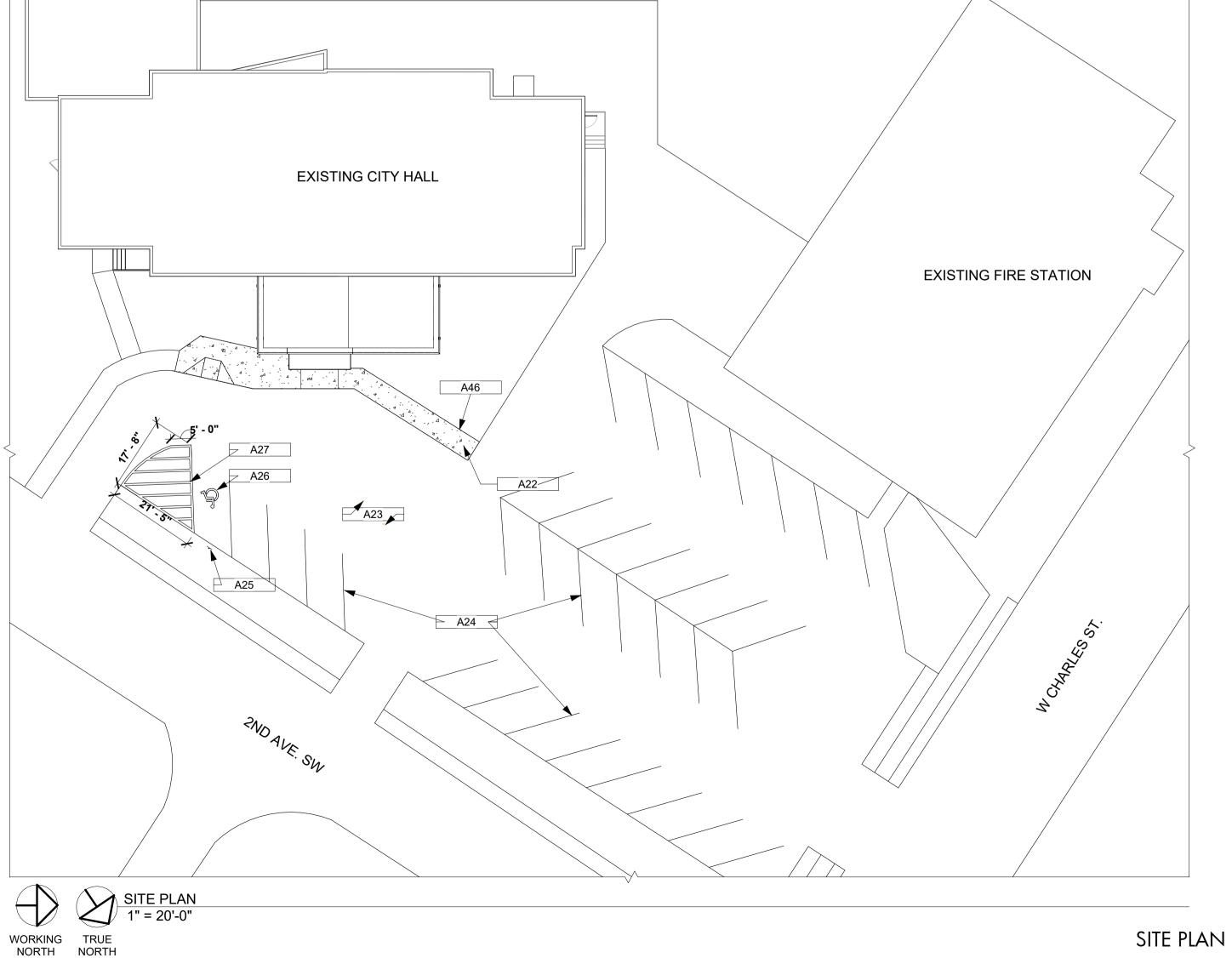






ARCHITECTURAL SITE PLAN NOTES:

- GRADE ALL AREAS TO DRAIN WITHOUT PONDING.
- 2. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR BUILDING UTILITIES CONNECTIONS AND SITE LIGHTING.
- 3. FINISH GRADE IS TO BE NOT LESS THAN 6" BELOW FLOOR LINE.
- 4. IF ANY UTILITIES OR STRUCTURES ARE DISCOVERED DURING EXCAVATION AND SITE GRADING NOT INDICATED ON THE DRAWINGS, CONTACT THE ARCHITECT IMMEDIATELY.
- REMOVE MISC. SLABS, PIPES, ROCKS & OTHER FEATURES NO LONGER BEING USED. SEE SITE PLANS FOR FURTHER INFORMATION.
- 6. COORDINATE SHUT OFF UTILITIES AND STREET CLOSURES WITH ARCHITECT AND OWNER.
- PROVIDE HANDICAPPED PARKING SIGNS ON POSTS AT EACH HANDICAPPED PARKING SPACE.
- 8. SEAL EXPANSION JOINTS IN SIDEWALKS WITH BACKER ROD AND PAVING JOINT SEALANT.
- PROVIDE EROSION CONTROL FOR SITE WITH SILT FENCES, SETTLING BEDS, AND OTHER METHODS TO PREVENT EROSION INTO STREET. CONTRACTOR TO PAY FOR ALL EROSION CLEANUP REQUIRED.



KEY

A23

5:03:15 PM Autodesk Dacs://Oelwein City Hall Renovations/Oelwein City Hall Renovation.rv

C01

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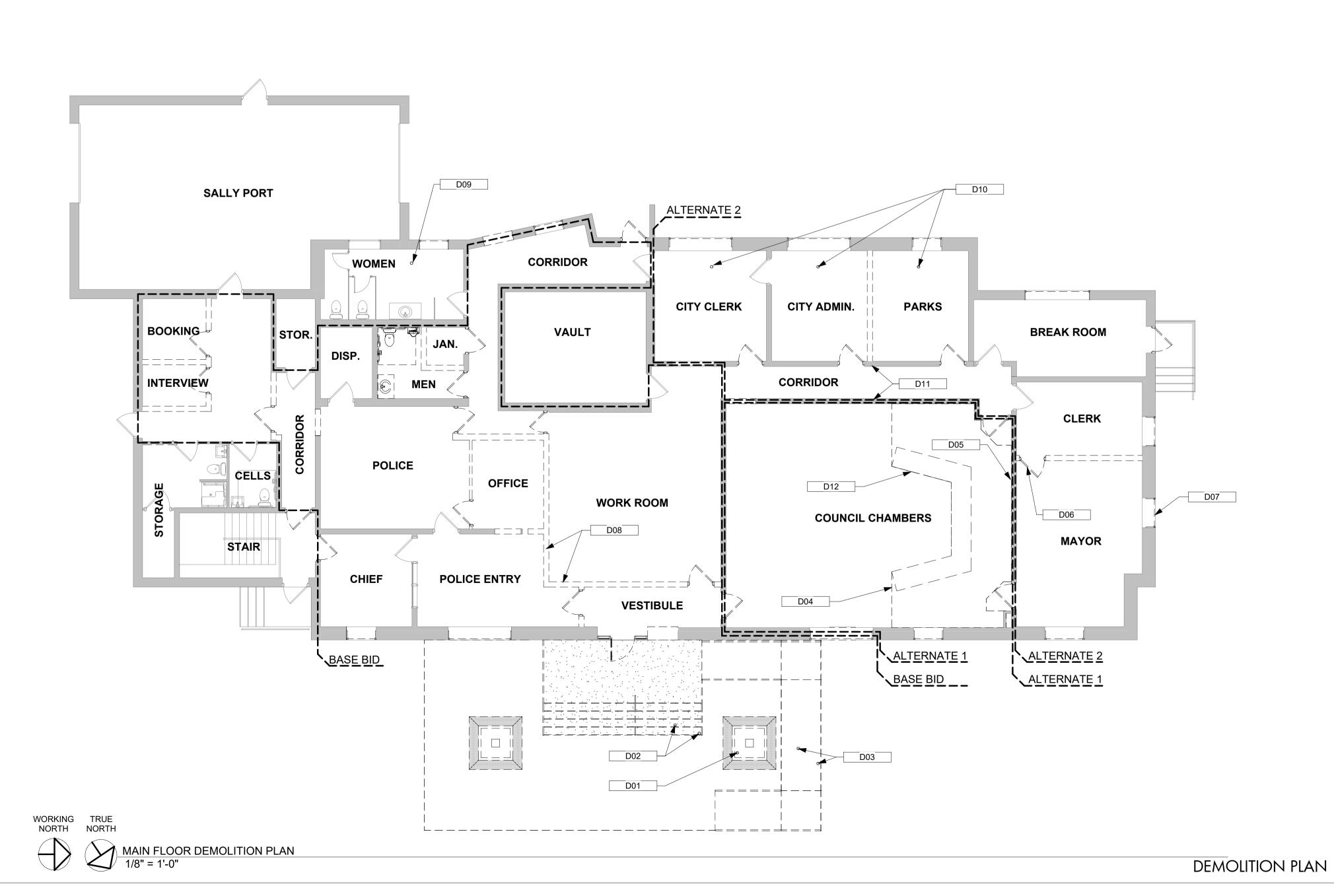
OELWEIN

	DEMOLITION KEYNOTES
KEY	KEYNOTE
D01	REMOVE EXISTING COLUMN, TYPICAL
D02	REMOVE EXISTING STAIRS AND HAND RAILS
D03	REMOVE EXISTING RAMP AND HAND RAIL

D01	REMOVE EXISTING COLUMN, TYPICAL
D02	REMOVE EXISTING STAIRS AND HAND RAILS
D03	REMOVE EXISTING RAMP AND HAND RAIL
D04	REMOVE EXISTING RISER AND DESK
D05	REMOVE PANELING
D06	REMOVE DOOR AND FRAME, TYPICAL
D07	REMOVE EXISTING WINDOW SYSTEM, TYPICAL
D08	REMOVE EXISTING WALL, TYPICAL
D09	NO WORK TO RESTROOM
D10	REMOVE EXISTING WALL PANELING, SALVAGE FOR OWNER, TYPICAL
D11	EXISTING TO REMAIN
D12	SALVAGE DESK FOR REINSTALLATION

DEMOLITION NOTES:

- REMOVE ALL EXISTING CARPET TILE FLOORING UNLESS OTHERWISE NOTED. SALVAGE CARPET TO OWNER. COORDINATE.
- 2. REMOVE ALL EXISTING ACOUSTIC CEILING TILE UNLESS OTHERWISE NOTED.
- REMOVE ALL ABANDONED WIRING UNLESS OTHERWISE NOTED, SEE ELECTRICAL DRAWINGS.
- 4. REMOVE ALL EXISTING DUCTWORK UNLESS OTHERWISE NOTED, SEE MECHNICAL DRAWINGS.
- REMOVE ALL EXISTING FLUORESCENT LAYIN TROFFERS UNLESS OTHERWISE NOTED, SEE ELECTRICAL DRAWINGS.
- 6. ALL ENTRY CANOPY STRUCTURE AND STAIR FOUNDATIONS SHALL BE



BID SET: 03/14/2023

REVISION

NUMBER: DATE:

OELWEIN CITY HALL RENOVATION

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102 S. FREDERICK AVE SUITE #1 OELWEIN, IOWA 50662

A101

A102

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ARCHITECTURAL KEYNOTES

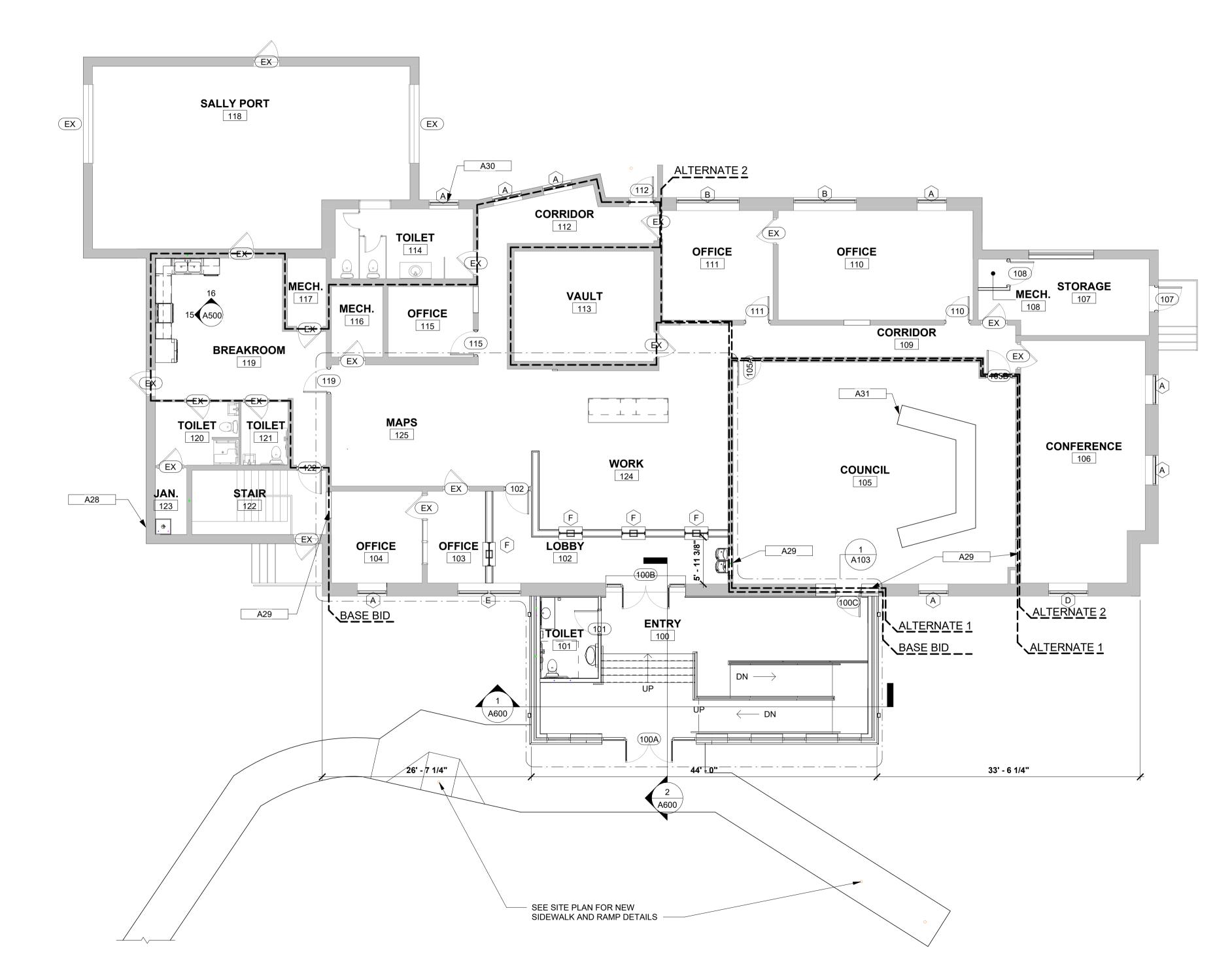
KEY KEYNOTE

A28 GRADING REQUIRED AWAY FROM BUILDING

A29 PATCH BACK EXISTING WALL WITH WOOD STUD FRAMING AND DRYWALL BOTH FACES. ENSURE FINISH IS FLUSH WITH EXISTING

A30 OBSCURED GLASS

A31 REINSTALL EXISTING COUNCIL TABLE. SEE ELECTRICAL DRAWINGS FOR NEW ELECTRICAL CONNECTIONS



FLOOR PLAN NOTES:

1. ALL EXTERIOR DIMENSIONS ARE TO THE EXTERIOR FACE OF FRAMING,

WHICH ALIGN TO THE EXTERIOR FACE OF FOUNDATION WALL.

2. ALL INTERIOR DIMENSIONS ARE TO FACE OF FRAMING.

3. ALL SILL PLATES AND OTHER FRAMING COMING INTO CONTACT WITH CONCRETE IS TO BE TREATED.

 AT PIPE CHASES ON EXTERIOR WALLS, INSULATE BETWEEN PIPE AND EXTERIOR FACE. DO NOT INSULATE ON INTERIOR SIDE OF CHASE.
 VERIFY ALL DUCT CHASES WITH MECHANICAL CONTRACTOR PRIOR TO

CHASE CONSTRUCTION.

6. F.E. = FIRE EXTINGUISHERS. EXTINGUISHERS PROVIDED BY OWNER, CABINETS PROVIDE AND INSTALLED BY CONTRACTOR. COORDINATE LOCATIONS SHOWN ON FLOOR PLANS WITH ARCHITECT PRIOR TO INSTALLATION.

 ALIGN EXTERIOR FACE OF NEW WINDOWS TO SAME LOCATION AS EXTERIOR FACE OF EXISTING WINDOWS $\sum \frac{MA}{1/8}$

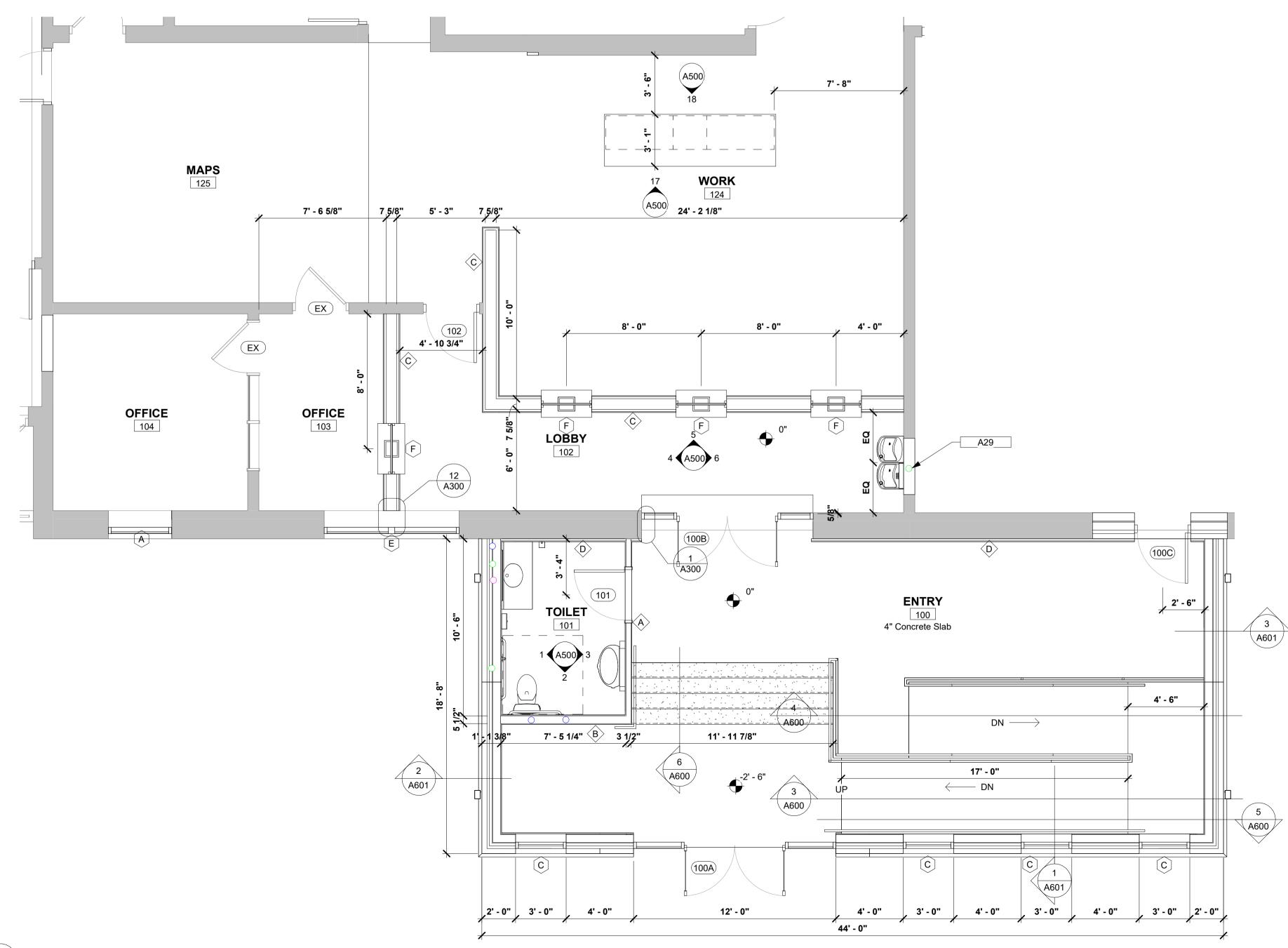
MAIN FLOOR (NEW)
1/8" = 1'-0"

WORKING TRUE NORTH NORTH

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	ARCHITECTURAL KEYNOTES
KEY	KEYNOTE
A29	PATCH BACK EXISTING WALL WITH WOOD STUD FRAMING AND DRYWALL BOTH FACES. ENSURE FINISH IS FLUSH WITH EXISTING

BOTTOM OF STRUCTURE BOTTOM OF STRUCTURE BOTTOM OF STRUCTURE BOTTOM OF STRUCTURE NEW LAY-IN CEILING, SEE NEW LAY-IN CEILING, SEE NEW LAY-IN CEILING, SEE NEW LAY-IN CEILING, SEE REFLECTED CEILING PLAN 2 5 REFLECTED CEILING PLAN REFLECTED CEILING PLAN REFLECTED CEILING PLAN AND ROOM FINISH AND ROOM FINISH AND ROOM FINISH AND ROOM FINISH SCHEDULE SCHEDULE SCHEDULE SCHEDULE - 5/8" GYP BD, EACH SIDE 5/8" GYP BD 5/8" GYP BD, EACH SIDE 5/8" GYP BD, EACH SIDE 2x WOOD STUDS LAID 2x WOOD STUDS LAID FLAT @ 16" O.C. FLAT @ 16" O.C. 2x4 WOOD STUDS @ 16" 2X6 WOOD STUDS @ 16" O.C. W/ BATT INSULATION O.C. W/ BATT INSULATION - 8" CMU BLOCK EXISTING WALL BASE, AS SCHEDULED BASE, AS SCHEDULED - BASE, AS SCHEDULED BASE, AS SCHEDULED - ACOUSTIC SEALANT, EACH ACOUSTIC SEALANT, EACH SIDE, TOP AND BOTTOM SIDE, TOP AND BOTTOM 5 1/2" 7 5/8" D



FLOOR PLAN NOTES:

- 1. ALL EXTERIOR DIMENSIONS ARE TO THE EXTERIOR FACE OF FRAMING, WHICH ALIGN TO THE EXTERIOR FACE OF FOUNDATION WALL.
- 2. ALL INTERIOR DIMENSIONS ARE TO FACE OF FRAMING. 3. ALL SILL PLATES AND OTHER FRAMING COMING INTO CONTACT WITH CONCRETE IS TO BE TREATED.
- 4. AT PIPE CHASES ON EXTERIOR WALLS, INSULATE BETWEEN PIPE AND EXTERIOR FACE. DO NOT INSULATE ON INTERIOR SIDE OF CHASE. 5. VERIFY ALL DUCT CHASES WITH MECHANICAL CONTRACTOR PRIOR TO
- CHASE CONSTRUCTION. 6. F.E. = FIRE EXTINGUISHERS. EXTINGUISHERS PROVIDED BY OWNER, CABINETS PROVIDE AND INSTALLED BY CONTRACTOR. COORDINATE LOCATIONS SHOWN ON FLOOR PLANS WITH ARCHITECT PRIOR TO
- 7. ALIGN EXTERIOR FACE OF NEW WINDOWS TO SAME LOCATION AS EXTERIOR FACE OF EXISTING WINDOWS

1 ENLARGED PLAN A103 1/4" = 1'-0"

WALL TYPES 1 1/2" = 1'-0"

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ENLARGED PLAN

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A104

I1065.02

RCP DEMOLITION NOTES:

FINISHES

KEY

D14

1. REMOVE CEILING TILE AND GRID IN AREAS CALLED FOR DEMOLITION

DRYWALL BULKHEAD TO BE DEMOLISHED

EXISTING ACT CEILING TO BE REMOVED

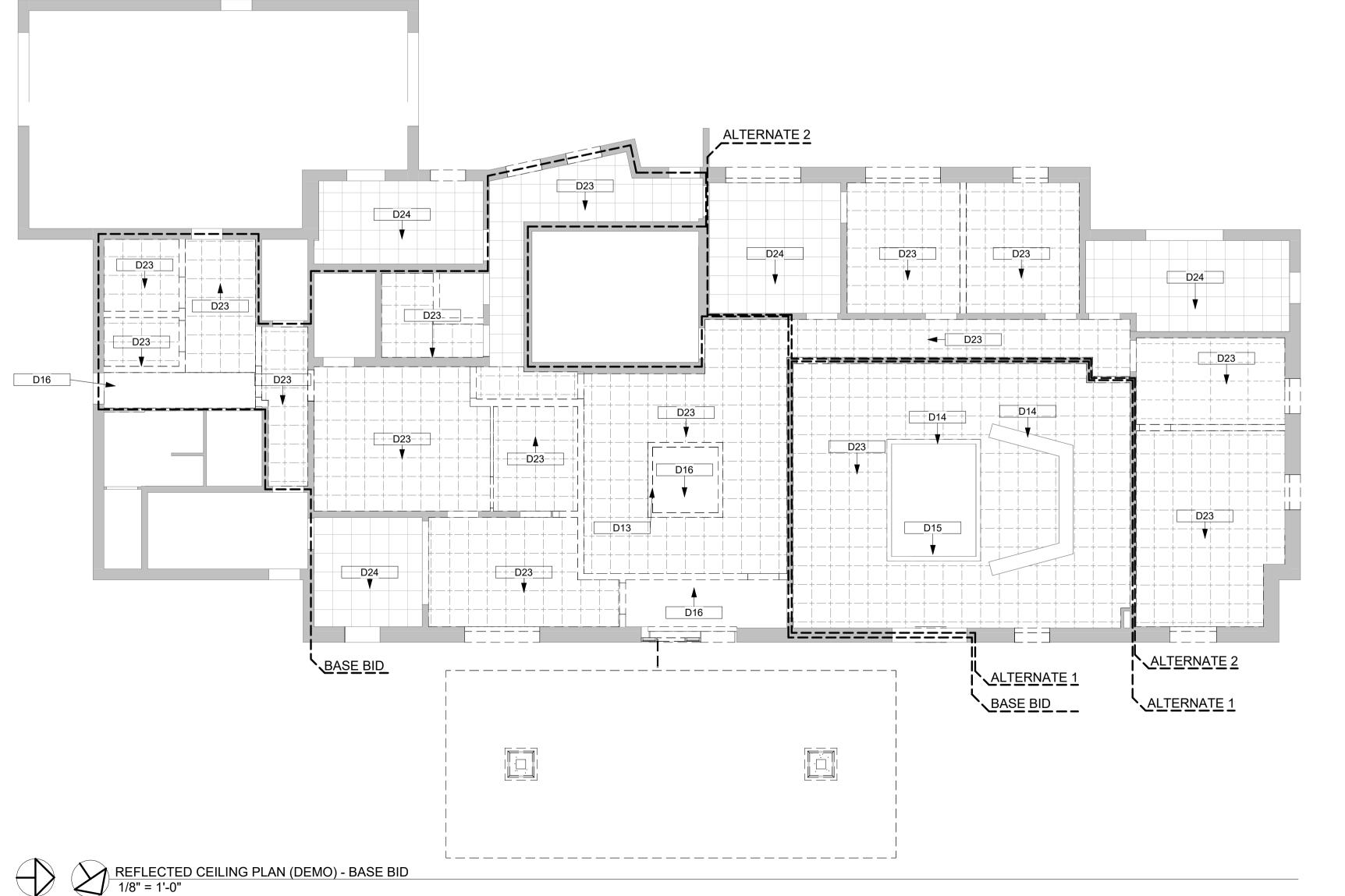
DRYWALL BULKHEAD TO REMAIN, PROTECT DRYWALL CEILING TO REMAIN, PROTECT

- 2. SEE MECHANICAL & ELECTRICAL DRAWINGS & SPECS FOR INFORMATION.
- 3. REMOVE TRASH & DEBRIS FROM ALL AREAS OF THE BUILDING. THIS INCLUDES STUD SPACES & ATTICS OPENED DURING CONSTRUCTION.

DEMOLITION KEYNOTES

KEYNOTE

- 4. WOOD WALLS REMOVE ROTTED OR BROKEN AREAS OF SHEATHING AND FRAMING ALL AREAS WHERE SHEATHING OR FRAMING ARE TO BE REPLACED SHALL BE PHOTO DOCUMENTED.
- 5. REMOVE DEBRIS FROM THE SITE AS IT IS GENERATED. PROVIDE ON SITE DUMPSTERS OR OTHER CONTAINERS.
- 6. NOT ALL ITEMS FOR DEMOLITION, OR UNKNOWN CONDITIONS, CAN BE SHOWN OR NOTED FOR REMOVAL. QUESTIONS REGARDING REMOVAL SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION.
- 7. PATCH TO MATCH ADJACENT SURFACES AT DEMO AREAS WHERE INFILL IS REQUIRED UNLESS OTHERWISE NOTED IN ROOM FINISH SCHEDULE.



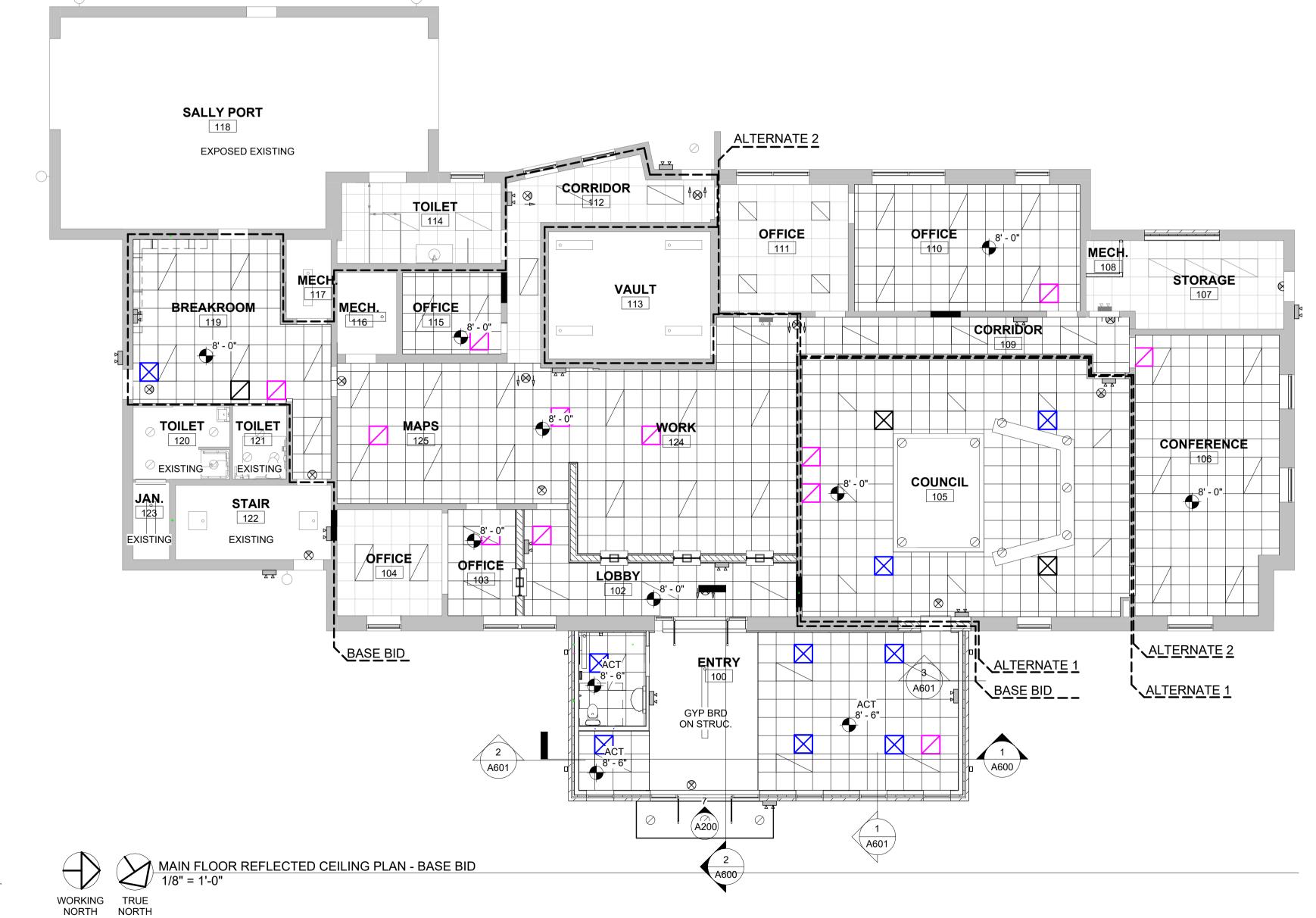
WORKING TRUE NORTH

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A105

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REFLECTED CEILING PLAN NOTES:

- 1. VERIFY CEILING GRID LAYOUT WITH EXACT ROOM DIMENSIONS.
- 2. AVOID CUT TILE SIZES LESS THAN 4"
- CONTRACTOR TO PATCH BACK AND PAINT ALL EXISTING GYP. BRD. BULKHEADS AND CEILINGS TO REMAIN.

3' - 0"

SCHEDULES

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			R	OOM FIN	NISH SCI	HEDULE			
	ROOM NAME	FLOOR FINISH	BASE FINISH	NORTH	EAST	SOUTH	WEST	CEILING FINIISH	NOTES
100	ENTRY	LVT	VINYL	PAINT	PAINT	PAINT	PAINT	ACT/GYP BRD	
100	TOILET	LVT	VINYL	EPOXY PAINT		EPOXY PAINT	EPOXY PAINT	ACT/GTP BRD	
102	LOBBY	LVT	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
103	OFFICE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
104	OFFICE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	EX	
105	COUNCIL	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT/GYP BRD	
106	CONFERENCE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
107	STORAGE	CONCRETE		PAINT	PAINT	PAINT	PAINT	EX	
108	MECH.	CONCRETE		PAINT	PAINT	PAINT	PAINT		
109	CORRIDOR	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
110	OFFICE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
111	OFFICE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	EX	
112	CORRIDOR	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	EX	
113	VAULT	LVT	VINYL	PAINT	PAINT	PAINT	PAINT	GYP BRD	
114	TOILET	LVT	VINYL	PAINT	PAINT	PAINT	PAINT	EX	
115	OFFICE	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
116	MECH.	CONCRETE		PAINT	PAINT	PAINT	PAINT		
117	MECH.	CONCRETE		PAINT	PAINT	PAINT	PAINT		
118	SALLY PORT	EX	EX	EX	EX	EX	EX	EX	
119	BREAKROOM	LVT	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
120	TOILET	LVT	VINYL	EPOXY PAINT		EPOXY PAINT	EPOXY PAINT	EX	
121	TOILET	LVT	VINYL	EPOXY PAINT		EPOXY PAINT	EPOXY PAINT	EX	
122	STAIR	EX	EX	EX	EX	EX	EX	EX	
123	JAN.	CONCRETE		PAINT	PAINT	PAINT	PAINT	EX	
124	WORK	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	
125	MAPS	CARPET	VINYL	PAINT	PAINT	PAINT	PAINT	ACT	

ROOM FINISH NOTES:

- 1. CONTRACTOR TO PATCH BACK NEW TO EXISTING WALL FINISHES TO MATCH EXISTING.
- 2. INSTALL TRANSITION STRIPS BETWEEN DISIMILAR FLOORING TYPES.
- 3. SALVAGE EXISTING CARPET TILE, VERIFY WITH OWNER.
- 4. CONTRACTOR TO INSTALL DRYWALL EXPANSION JOINTS AS REQUIRED IN NEW CONSTRUCTION, VERIFY FINAL PLACEMENT WITH ARCHITECT.

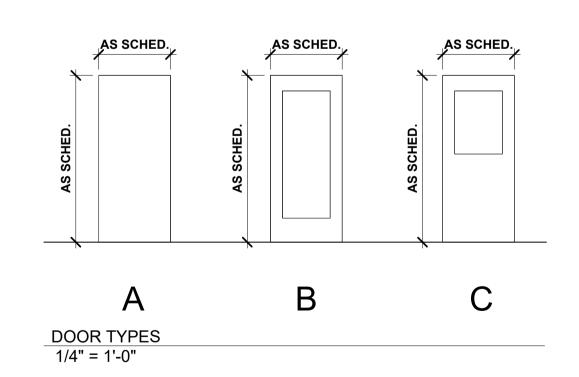
							DOOR	AND FRA	ME SCH	EDULE				
				DOOR					FRAN	ΛΕ				
DOOR											DETAIL		FIRE	
NO.	WIDTH	HEIGHT	THICK	MATERIAL	TYPE	GLASS	TYPE	MATERIAL	GLASS	HEAD	JAMB	SILL	LABEL	NOTES
		•		•				•						
100A	6' - 0"	7' - 0"	1 3/4"	ALUMINUM	В	INSUL/TEMP	II	ALUMINUM	INSUL/TEMP	2/A300	6/A/300	7/A300		
100B	6' - 0"	7' - 0"	1 3/4"	ALUMINUM	В	TEMP	III	ALUMINUM	TEMP	9/A300	1/A300			
100C	3' - 0"	7' - 0"	1 3/4"	WOOD	А		I	HOLLOW METAL		13/A300	14/A300			
101	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		I	HOLLOW METAL		10/A300	11/A300			
102	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		I	HOLLOW METAL		15/A300	16/A300			
105A	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		1	HOLLOW METAL		15/A300	16/A300			
105B	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		I	HOLLOW METAL		15/A300	16/A300			
107	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	Α		I	HOLLOW METAL		15/A300	14/A300	7/A300 SIM		
108	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		[HOLLOW METAL		10/A300	11/A300			
110	3' - 0"	7' - 0"	1 3/4"	WOOD	С	TEMP	1	HOLLOW METAL		15/A300	16/A300			
111	3' - 0"	7' - 0"	1 3/4"	WOOD	С	TEMP	1	HOLLOW METAL		15/A300	16/A300			
112	3' - 0"	7' - 0"	1 3/4"	HOLLOW METAL	Α		I	HOLLOW METAL		13/A300	14/A300	7/A300 SIM		
115	3' - 0"	7' - 0"	1 3/4"	WOOD	С	TEMP	I	HOLLOW METAL		15/A300	16/A300			
119	3' - 0"	7' - 0"	1 3/4"	WOOD	С	TEMP	I	HOLLOW METAL		15/A300	16/A300			
122	3' - 0"	7' - 0"	1 3/4"	WOOD	Α		[HOLLOW METAL		15/A300	16/A300			

GENERAL DOOR AND FRAME NOTES:

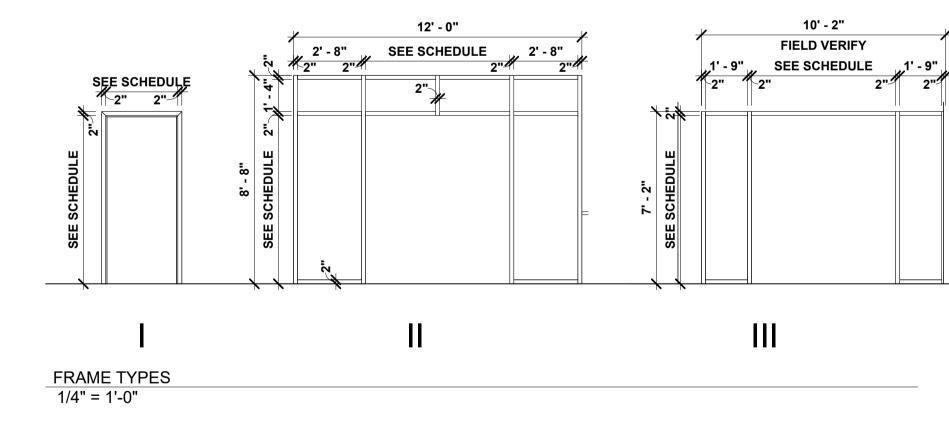
- 1. ALL EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE INSULATED GALVANIZED
- 2. ALL THRESHOLDS TO MEET THE AMERICANS WITH DISABILITIES ACT
- 3. OVERHEAD DOORS ARE TO BE HIGH-LIFT WHERE SIDE WALLS ARE TALL AND INSTALLED AS HIGH
- AS POSSIBLE IN ALL CASES EXCEPT WHERE NOTED.

4. SEE INTERIOR ELEVATIONS FOR TYPICAL CLEARANCES

- 5. PROVIDE CLOSERS, SWEEPS AND WEATHERSTRIPPING FOR ALL EXTERIOR DOORS
- 6. MATCH KEYWAY TO OWNER KEY SYSTEM.
- 7. FIELD VERIFY ALL CONDITIONS PRIOR TO ORDERING.
- 8. ALL GLAZING TO BE TEMPERED WHERE REQUIRED BY CODE.



3' - 9" 2" 3' - 5" 2"



4' - 8"

8' - 0"

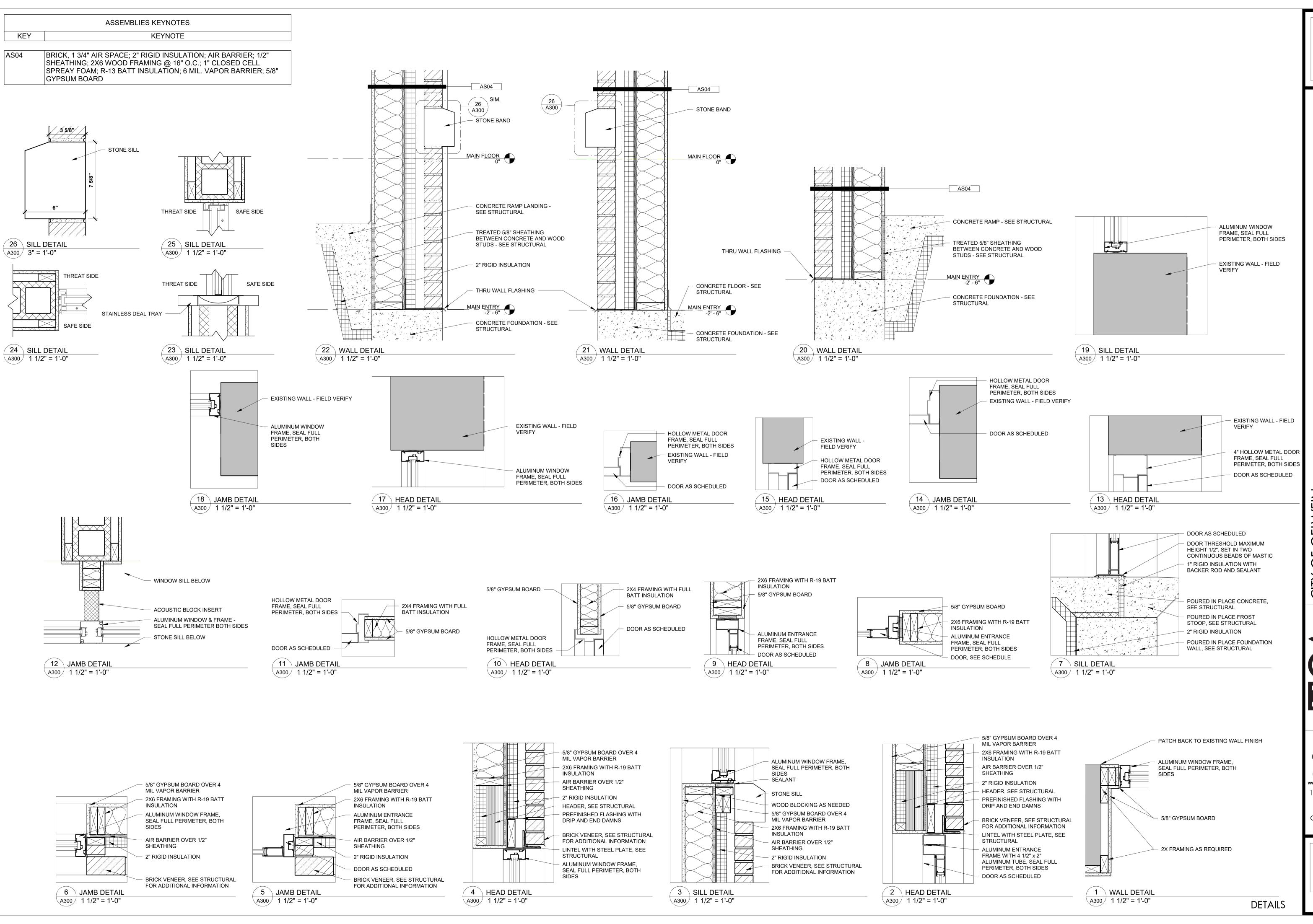
2" 3' - 7 3/4" 4 1/2" 3' - 7 3/4" 2"

WINDOW NOTES:

- PROVIDE SCREENS ON ALL OPERABLE UNITS.
 ON EXTERIOR WINDOWS, PROVIDE HEAD FLASHING WITH END JAMBS.
- 3. PROVIDE TEMPERED GLAZING AT ALL LOCATIONS REQUIRED BY CODE.
- 4. PREPARE OPENINGS IN ACCORDANCE WITH BUILDING WRAP MANUFACTURER'S RECOMMENDATIONS.
- 5. FIELD VERIFY ALL WINDOW OPENINGS PRIOR TO FRAMINGS.

2" 3'-9" 2" 3'-9" 2"

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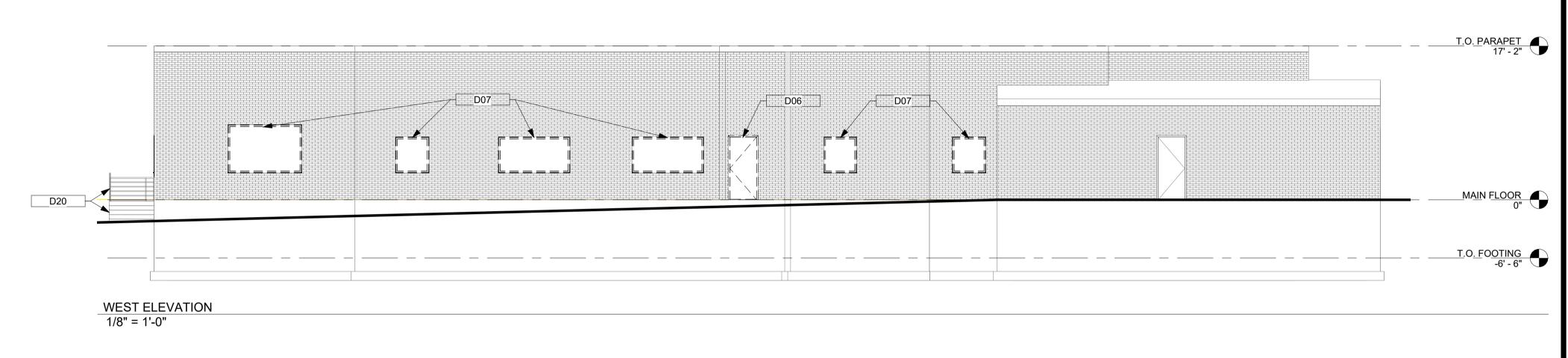
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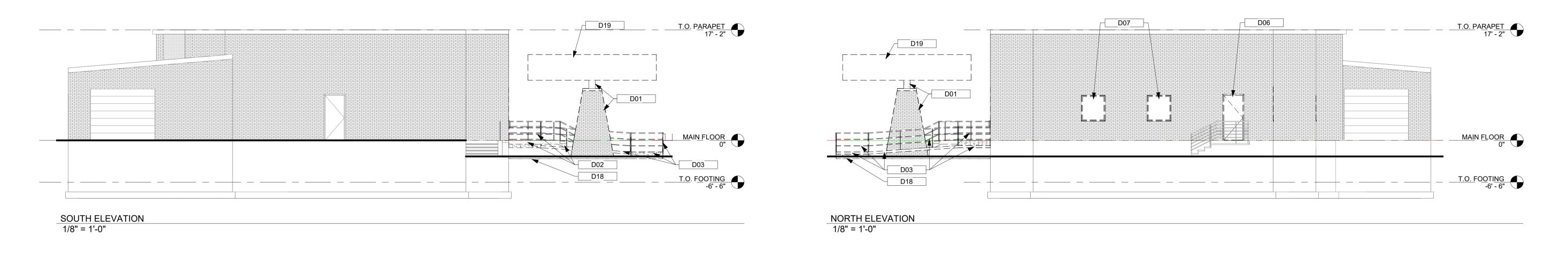
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ELEVATIONS (DEMO)

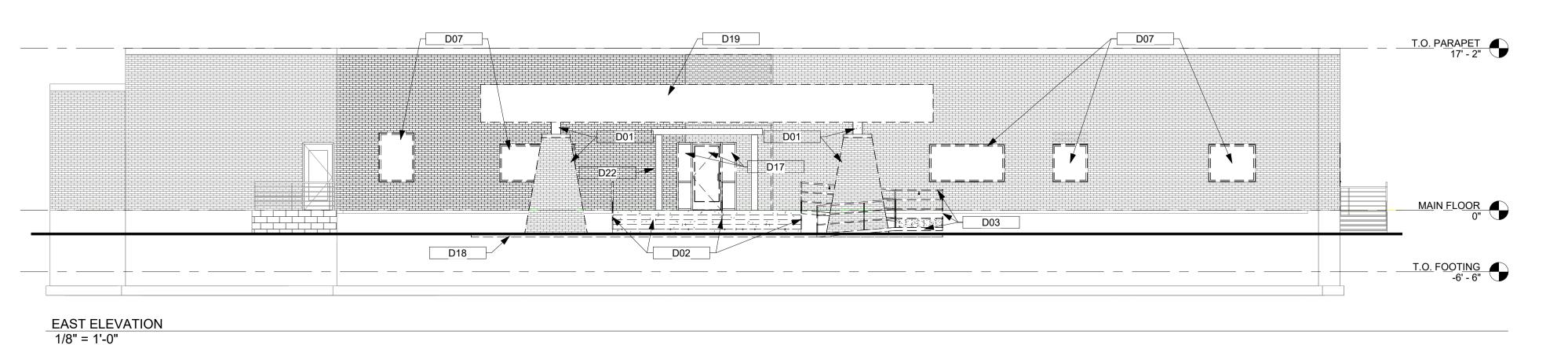
	DEMOLITION KEYNOTES
KEY	KEYNOTE
D01	REMOVE EXISTING COLUMN, TYPICAL
D02	REMOVE EXISTING STAIRS AND HAND RAILS
D03	REMOVE EXISTING RAMP AND HAND RAIL
D06	REMOVE DOOR AND FRAME, TYPICAL
D07	REMOVE EXISTING WINDOW SYSTEM, TYPICAL
D17	REMOVE EXISTING STOREFRONT DOOR, SIDELITES AND FRAME
D18	REMOVE EXISTING SLAB
D19	REMOVE EXISTING CANOPY
D20	EXISTING RAILING AND STAIRS TO REMAIN
D22	REMOVE CONCRETE COLUMN/ROOF STRUCTURE





DEMOLITION NOTES:

- 1. SEE MECHANICAL & ELECTRICAL DRAWINGS & SPECS FOR INFORMATION.
- 2. REMOVE TRASH & DEBRIS FROM ALL AREAS OF THE BUILDING. THIS INCLUDES STUD SPACES & ATTICS OPENED DURING CONSTRUCTION. 4. WHERE CONCRETE FLOORS ADN ROOFS ARE TO BE REMOVED USE MOTOR DRIVEN SAW & REMOVE IN A
- STRAIGHT LINE. 5. WOOD WALLS - REMOVE ROTTED OR BROKEN AREAS OF SHEATHING AND FRAMING ALL AREAS WHERE
- SHEATHING OR FRAMING ARE TO BE REPLACED SHALL BE PHOTO DOCUMENTED.
- 6. REMOVE DEBRIS FROM THE SITE AS IT IS GENERATED. PROVIDE ON SITE DUMPSTERS OR OTHER CONTAINERS. 7. TEMPORARY SUPPORTS - BEFORE REMOVING ANY BEARING WALLS, COLUMNS, BEAMS OR OTHER FEATURES
- MAKE PROVISIONS FOR TEMPORARY SHORING.
- 8. NOT ALL ITEMS FOR DEMOLITION, OR UNKNOWN CONDITIONS, CAN BE SHOWN OR NOTED FOR REMOVAL. QUESTIONS REGARDING REMOVAL SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION. 9. REMOVE ALL FLOORING IN AREAS TO BE RENOVATED UNLESS OTHERWISE NOTED IN ROOM FINISH SCHEDULE.
- 10. PATCH TO MATCH ADJACENT SURFACES AT DEMO AREAS WHERE INFILL IS REQUIRED UNLESS OTHERWISE
- NOTED IN ROOM FINISH SCHEDULE. 11. DO NOT OPERATE SPARK OR FLAME PRODUCING EQUIPMENT WITHOUT EXPRESS KNOWLEDGE AND CONSENT OF GENERAL CONTRACTOR.
- 12. SEE REFLECTED CEILING PLAN FOR CEILING REMOVAL AND ROOF PLAN FOR NEW ROOF PENETRATIONS FOR MECHANICAL UNITS.



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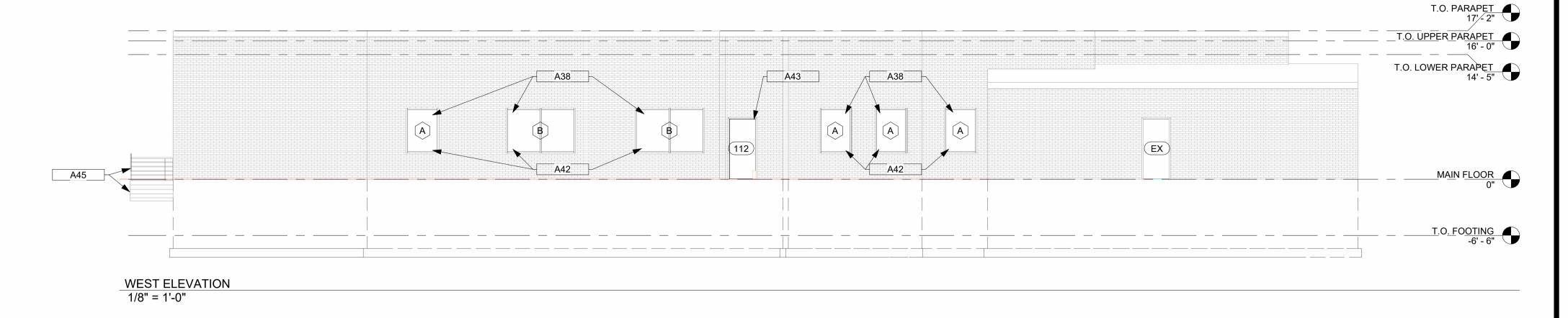
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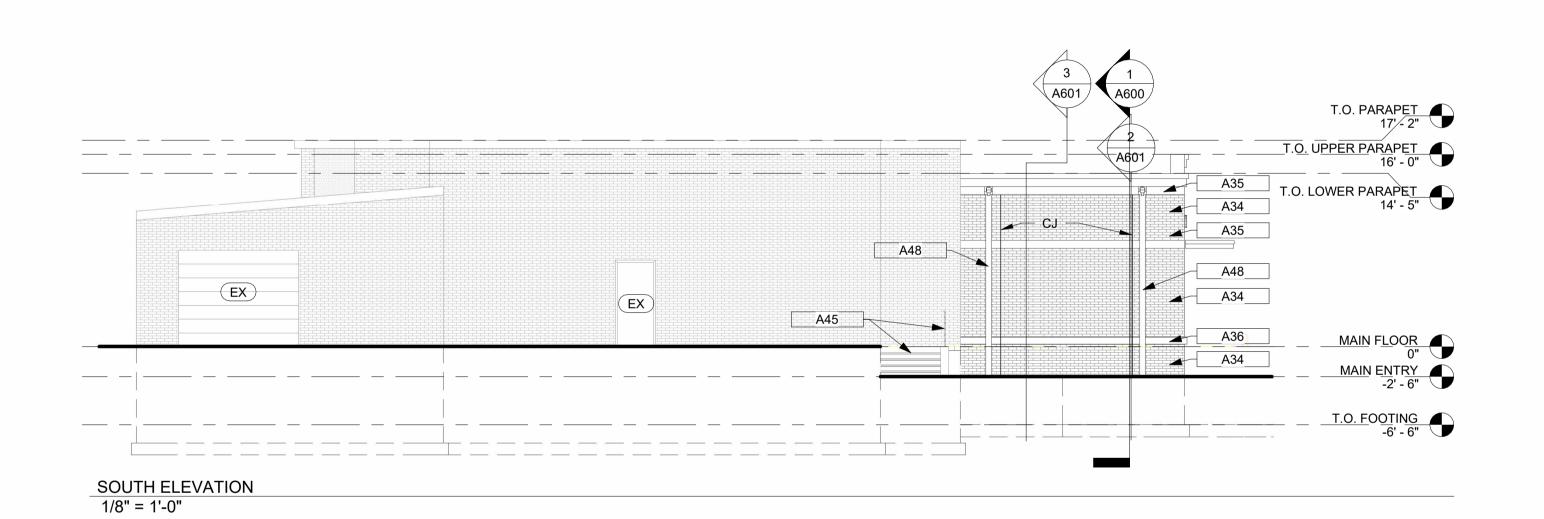
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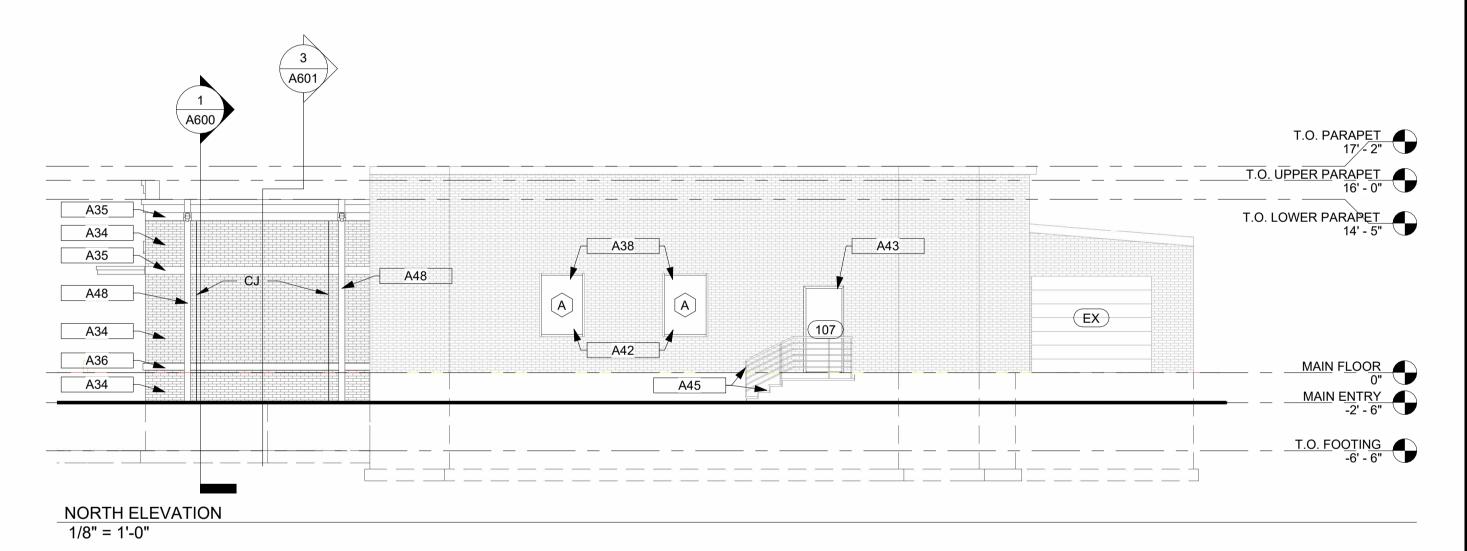
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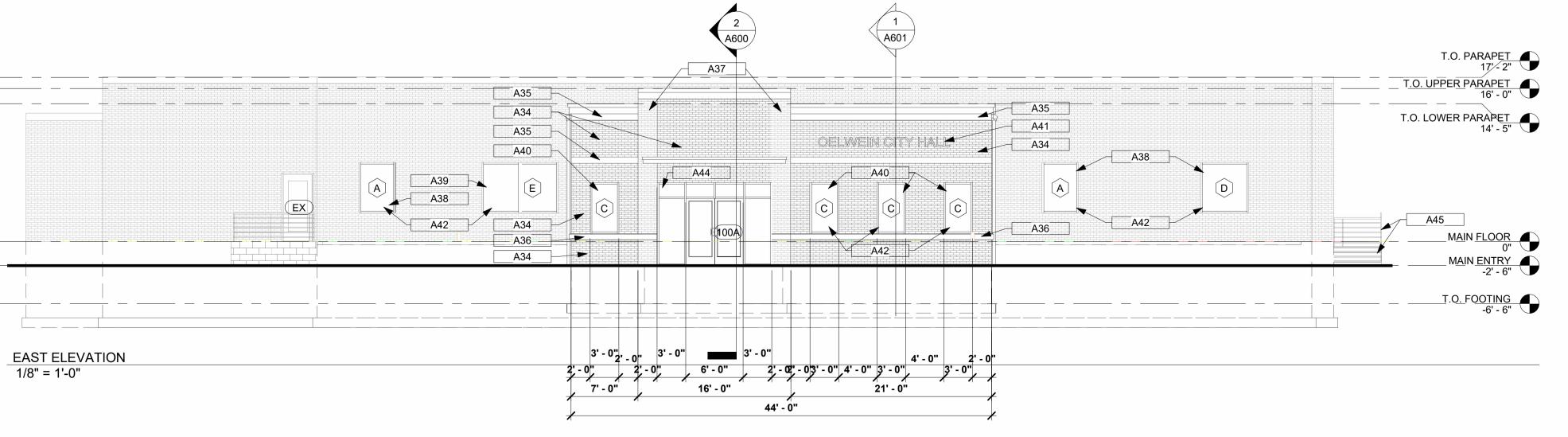
EXTERIOR ELEVATIONS

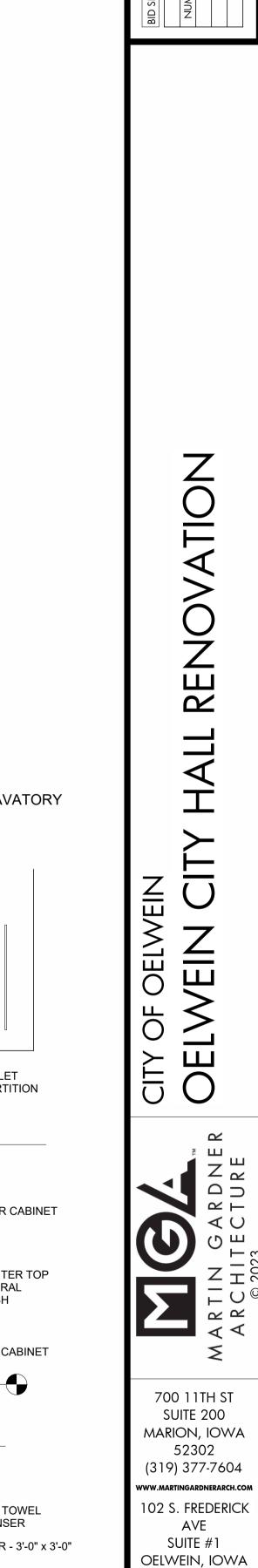




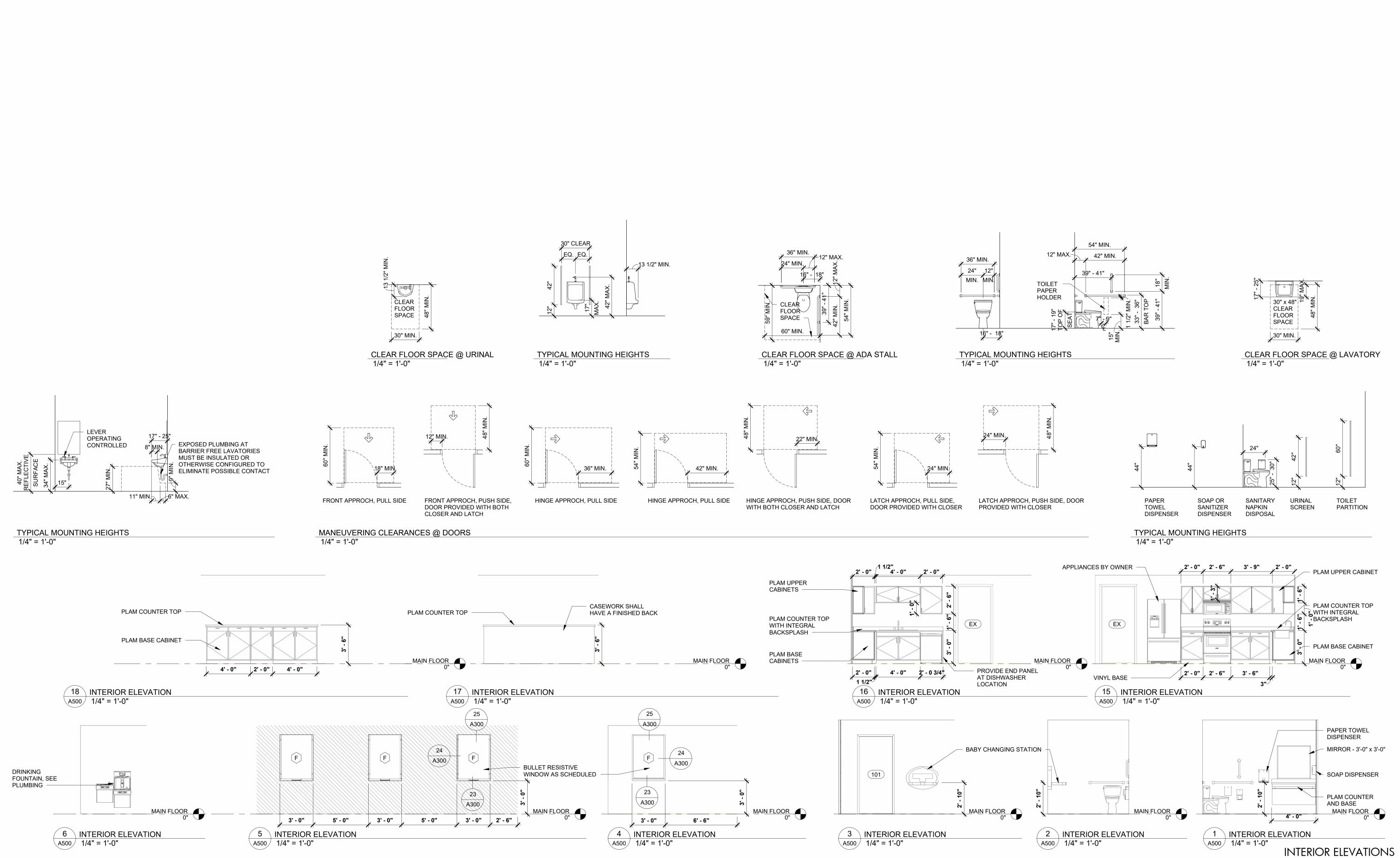


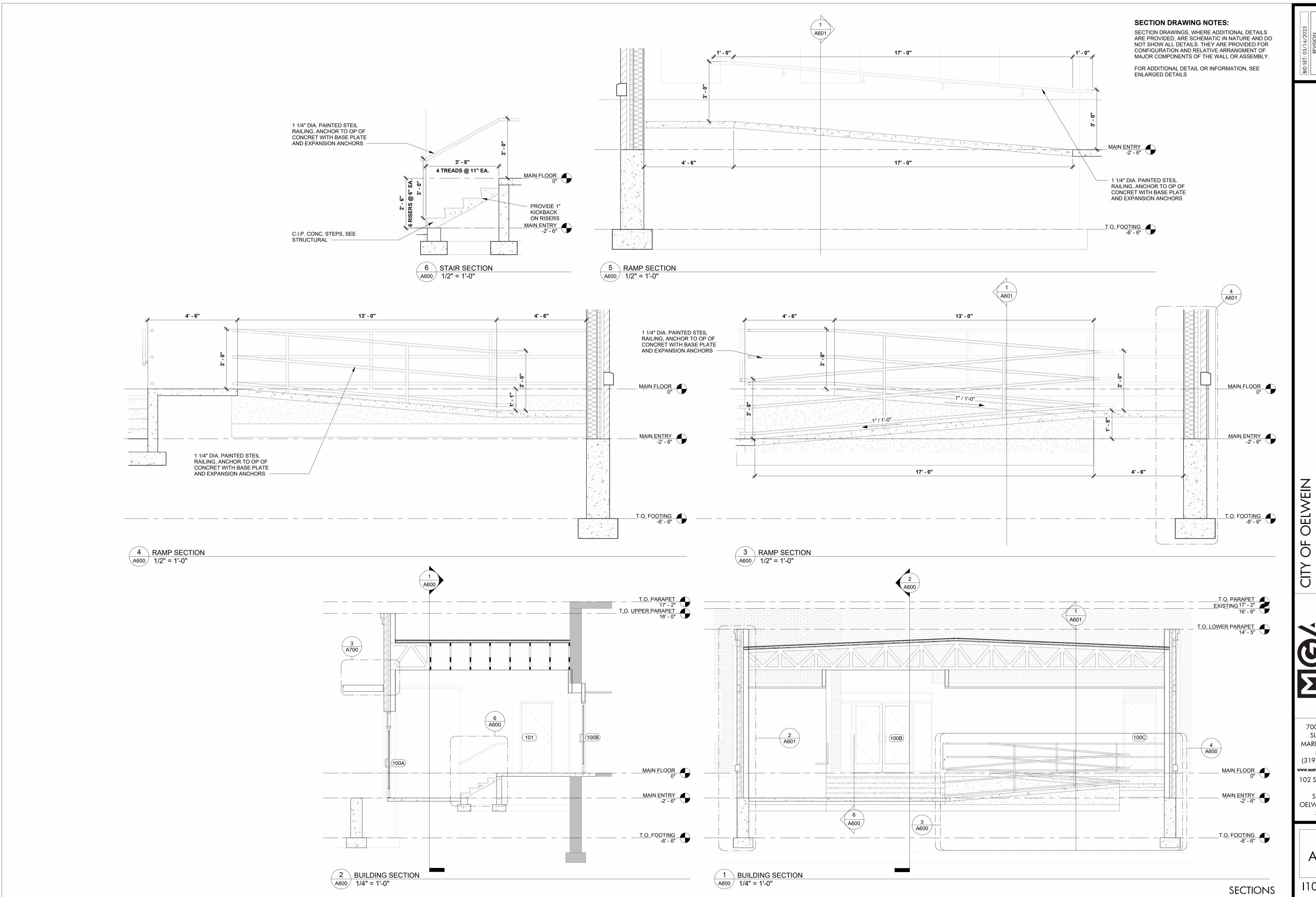






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RENO CITY

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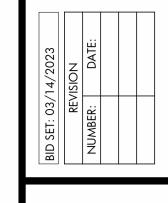
BRICK, 1 3/4" AIR SPACE; 2" RIGID INSULATION; AIR BARRIER; 1/2" SHEATHING; 2X6 WOOD FRAMING @ 16" O.C.; 1" CLOSED CELL SPREAY FOAM; R-13 BATT INSULATION; 6 MIL. VAPOR BARRIER; 5/8" GYPSUM BOARD

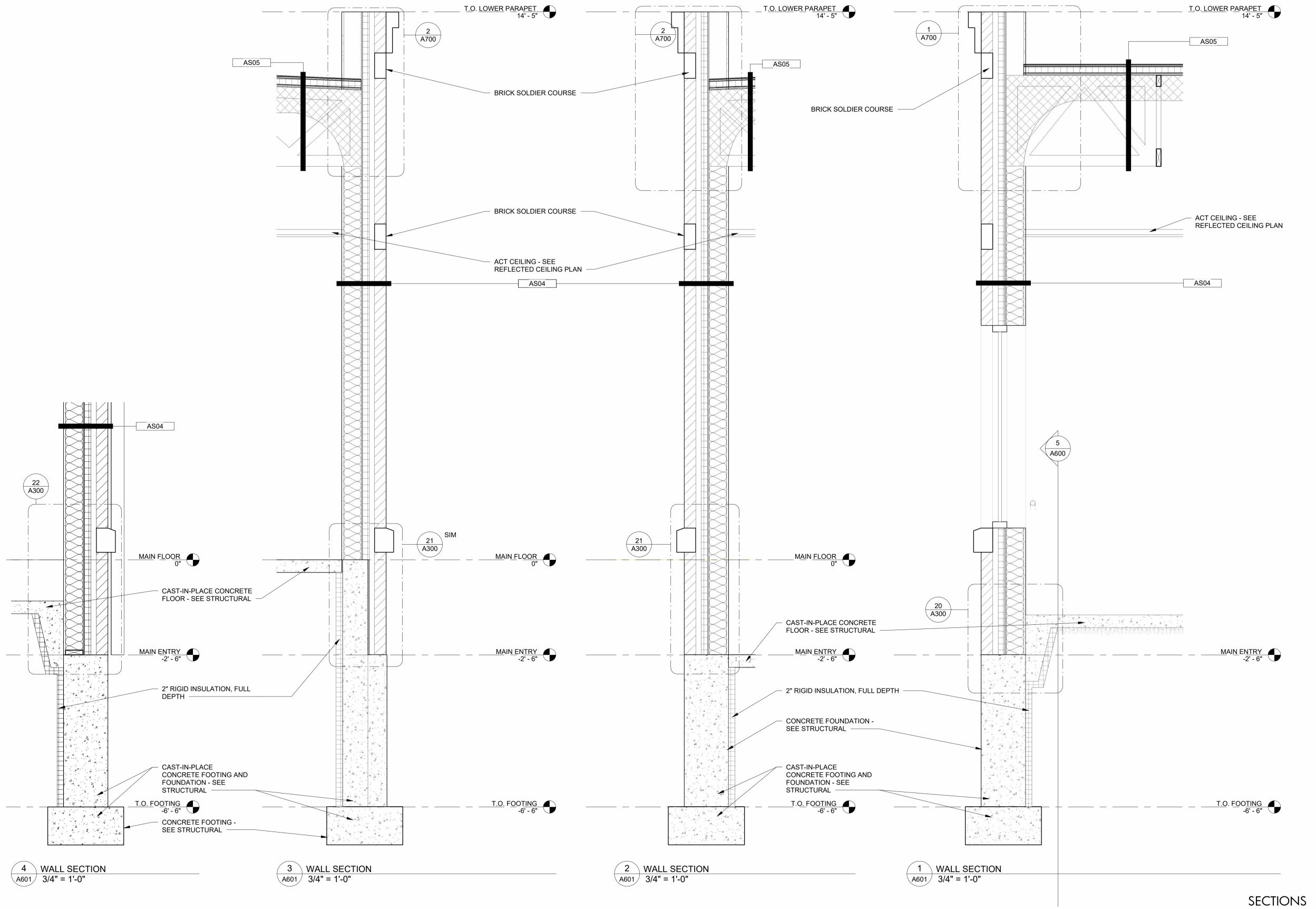
MEMBRANE ROOFING; 1/2" COVER BOARD; 2" RIGID INSULATION; VAPOR BARRIER; 3/4" OSB SHEATHING; WOOD TRUSS FRAMING; R-40 SPRAY FOAM INSULATION; 5/8" GYP. BRD.

SECTION DRAWING NOTES:

SECTION DRAWINGS, WHERE ADDITIONAL DETAILS ARE PROVIDED, ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL DETAILS. THEY ARE PROVIDED FOR CONFIGURATION AND RELATIVE ARRANGMENT OF MAJOR COMPONENTS OF THE WALL OR ASSEMBLY.

FOR ADDITIONAL DETAIL OR INFORMATION, SEE ENLARGED DETAILS





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2. DEAD LOADS: WEIGHT OF STRUCTURAL COMPONENTS ESTABLISHED IN ACCORDANCE WITH

STANDARD ENGINEERING PRACTICE. 3. LIVE LOADS 3.1. ROOF 20 PSF (SERVICE LOAD) 4. SNOW LOADS: 30 PSF (SERVICE LOAD) GROUND SNOW LOAD, Pg FLAT-ROOF SNOW LOAD, Pf 23.1 PSF (SERVICE LOAD) SLOPED-ROOF SNOW LOAD, Ps 23.1 PSF (SERVICE LOAD) SNOW EXPOSURE FACTOR, Ce 1.00 IMPORTANCE FACTOR. Is 1.10 THERMAL FACTOR, Ct 1.00 5. WIND LOADS: ULTIMATE WIND SPEED, Vult 115 MPH **EXPOSURE** INTERNAL PRESSURE COEFF. +/-0.18 COMPONENTS AND CLADDING MAN-DOORS, WINDOWS 5.4.1. +/- 50 PSF (FACTORED LOAD) 6. SEISMIC LOADS: RISK CATEGORY IMPORTANCE FACTOR, le 1.00 6.3. SPECTURAL RESPONSE ACCELERATIONS 6.3.1. 0.061 0.043 6.3.2. SITE CLASS SPECTURAL RESPONSE COEFFICIENTS 6.5.1 Sds 0.069 6.5.2. SEISMIC DESIGN CATEGORY:

7.1.1. WIND UPLIFT: 7.1.1.1 7.1.1.2.

6.7.

6.9.

SFRS

7. WOOD TRUSSES

7.1. ROOF

7.1.1.

7.1.2.

DESIGN BASE SHEAR

ANALYSIS PROCEDURE:

DEAD LOADS:

LIVE LOAD:

RESPONSE MOD. FACTOR, R

TOP CHORD:

BOTTOM CHORD:

GROUND SNOW LOAD, Pg:

NET INTERIOR:

NET OVERHANG:

7.2. DEFLECTION 7.2.1. LIVE/SNOW LOAD: 7.2.2. TOTAL:

GENERA

- 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL BUILDING CODES AND OTHER CODES OF APPLICABLE REGULATORY AGENCIES.
- 2. CONTRACTOR SHALL COMPLY WITH LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING UPON THE PERFORMANCE OF THE WORK.
- 3. PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS AND CONTRACT DRAWINGS. REPORT DISCREPANCIES BETWEEN SPECIFICATIONS AND CONTRACT DRAWINGS TO ARCHITECT FOR CLARIFICATION PRIOR TO IMPLEMENTING WORK.
- 4. SUBJECT TO STRUCTURAL ENGINEER'S ACCEPTANCE, UTILIZE DETAILS FOR SIMILAR CONDITIONS WHEN DETAILS FOR CONSTRUCTION ARE NOT INDICATED FOR A SPECIFIC CONDITION.
- 5. CONTRACTOR SHALL COMPARE STRUCTURAL DRAWINGS WITH ARCHITECTURAL MEP, CIVIL AND OTHER CONTRACT DRAWINGS AND REPORT DISCREPANCIES TO ARCHITECT PRIOR TO IMPLEMENTING WORK.
- 6. OPENINGS AND PENETRATIONS THROUGH STRUCTURAL ELEMENTS AND ITEMS EMBEDDED IN STRUCTURAL ELEMENTS THAT ARE NOT INDICATED ON STRUCTURAL DRAWINGS SHALL BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO IMPLEMENTING WORK.
- DO NOT SCALE DRAWINGS TO DETERMINE DIMENSIONAL INFORMATION. 8. DO NOT PLACE MATERIALS OR EQUIPMENT ON UNFINISHED FLOORS OR ROOFS IN EXCESS OF 20 PSF NOR ON FINISHED FLOORS OR ROOFS IN EXCESS OF THE INDICATED DESIGN LIVE LOADS. AVOID IMPACT LOADING
- 9. THE STRUCTURE WAS DESIGNED FOR THE IN-SERVICE CONDITIONS ONLY. THE METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF CONTRACTOR. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- 10. CONNECTIONS OF MEP AND ARCHITECTURAL ITEMS TO THE STRUCTURE SHALL BE DESIGNED AND DETAILED BY CONTRACTOR. CONNECTIONS TO STRUCTURAL MEMBERS SHALL BE SUBMITTED TO STRUCTURAL ENGINEER FOR REVIEW. RESPONSIBILITY FOR THE PERFORMANCE OF THE SUPPLIED SYSTEM AND ASSOCIATED CONNECTIONS SHALL REMAIN THAT OF CONTRACTOR.
- 11. EXISTING CONDITIONS AND RELATED DIMENSIONS INDICATED IN CONTRACT DOCUMENTS ARE PROVIDED FOR INFORMATION ONLY AND SHALL BE FIELD VERIFIED PRIOR TO IMPLEMENTING WORK. CONDITIONS THAT DIFFER FROM THAT INDICATED IN CONTRACT DOCUMENTS SHALL BE SUBMITTED TO ARCHITECT FOR REVIEW PRIOR TO IMPLEMENTING WORK.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING CONSTRUCTION WHILE PERFORMING WORK. CONTRACTOR SHALL PROPERLY REINSTATE EXISTING FINISHES, FIREPROOFING OR ITEMS THAT ARE REMOVED OR DAMAGED WHILE PERFORMING WORK.
- 13. GENERALLY, DRAWINGS DO NOT INDICATE TEMPORARY REQUIREMENTS. NEED FOR TEMPORARY SHORING, TEMPORARY DEWATERING, TEMPORARY EARTH RETENTION, TEMPORARY WATER CUTOFF OR OTHER TEMPORARY MEASURES MAY BE INDICATED ON DRAWINGS AT SELECTED AREAS AS SUGGESTIONS FOR CONTRACTOR'S CONVENIENCE. DRAWINGS DO NOT IDENTIFY ALL AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES. IT IS CONTRACTOR'S RESPONSIBILITY TO CONFIRM TEMPORARY MEASURES INDICATED ON DRAWINGS, IDENTIFY OTHER AREAS OR CONDITIONS REQUIRING TEMPORARY MEASURES, DETERMINE MOST EFFICIENT TEMPORARY SYSTEMS AND DESIGN AND CONSTRUCT TEMPORARY SYSTEMS.
- 14. DO NOT SUSPEND ANY ITEM FROM WOOD SHEATHING OR WOOD SUB-PURLINS.

FOUNDATION

- FOOTINGS WERE DESIGNED FOR AN ASSUMED 1,500 PSF NET ALLOWABLE BEARING **PRESSURE**
- 2. QUALITY CONTROL SERVICE SHALL INSPECT AND PERFORM TESTS TO VERIFY THE ACTUAL ALLOWABLE SOIL BEARING PRESSURE AT FOUNDATION BEARING LOCATIONS. QUALITY CONTROL SERVICE SHALL NOTIFY STRUCTURAL ENGINEER OF LOCATIONS WHERE THE ACTUAL ALLOWABLE BEARING PRESSURE IS LESS THAN THE SPECIFIED VALUE OR WHERE FOUNDATION ELEVATIONS MUST BE MODIFIED TO BEAR ON APPROPRIATE MATERIAL. CONSTRUCTION OF THE FOUNDATION SYSTEM SHALL NOT PROCEED AT SUCH LOCATIONS UNTIL AN APPROPRIATE REMEDIAL ACTION HAS BEEN REVIEWED AND ACCEPTED BY STRUCTURAL ENGINEER.
- THE SLAB-ON-GRADE SHALL BE PLACED ON A VAPOR RETARDER OVER A MINIMUM THICKNESS OF 6" OF IOWA DOT GRADE NO. 11 COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-1557, MODIFIED PROCTOR METHOD.
- 4. LOCATION AND EXTENT OF EXISTING FOUNDATIONS AND SUBGRADE ITEMS ARE PROVIDED FOR INFORMATION ONLY. CONTRACTOR SHALL DETERMINE, CONFIRM OR VERIFY THE LOCATION AND EXTENT OF EXISTING FOUNDATIONS OR OTHER ITEMS WHICH MAY CONFLICT WITH NEW CONSTRUCTION. PERFORM VERIFICATION PROCEDURE PRIOR TO IMPLEMENTING WORK.
- CONSULT GEOTECHNICAL ENGINEER FOR SLOPE OF EXCAVATION CUTS.
- PLACE REINFORCING STEEL AND CONCRETE AS SOON AS POSSIBLE AFTER EXCAVATION FOR THE FOUNDATION SYSTEM
- 7. DO NOT CAST CONCRETE ON OR AGAINST SUBGRADE MATERIAL CONTAINING FROST, WATER OR SNOW. PROTECT SUBGRADE FROM FROST OR FREEZING DURING CONSTRUCTION OF FOUNDATION SYSTEM.
- SUBGRADE WALLS THAT ARE ATTACHED TO SLAB AT THE TOP OF THE WALL AND WHICH RETAIN EARTH ON ONE SIDE HAVE BEEN DESIGNED AS "BRACED" WALLS. TEMPORARY BRACING OF "BRACED" WALLS SHALL BE PROVIDED UNTIL THE STRUCTURAL ATTACHMENT AT THE TOP HAS BEEN COMPLETED AND OBTAINED 75% OF THE SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTH SPECIFIED FOR THE BRACING ELEMENT.
- CONCRETE SHALL OBTAIN THE SPECIFIED 28-DAY CONCRETE COMPRESSIVE STRENGTH PRIOR TO BACKFILLING AGAINST THE CONCRETE
- 10. GRADE BEAMS AND WALLS THAT RETAIN EARTH ON BOTH SIDES SHALL BE BACKFILLED ON BOTH SIDES SIMULTANEOUSLY
- 11. PROVIDE MINIMUM OF 48 INCHES OF FROST PROTECTION FROM TOP OF FINISHED GRADE TO UNDERSIDE OF FOUNDATION ELEMENTS.

CONCRETE

LIGHT-FRAME (WOOD) WALLS SHEATHED

WITH WOOD STRUCTURAL PANELS

20 PSF (REDUCIBLE SERVICE LOAD)

400 LBS. (FACTORED LOAD)

EQUIVALENT LATERAL FORCE

10 PSF (SERVICE LOAD)

10 PSF (SERVICE LOAD)

30 PSF (SERVICE LOAD)

5 PSF (SERVICE)

SPAN / 360

SPAN / 240

12 PSF (SERVICE)

0.01

- CONCRETE PLACEMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI
- CONCRETE DETAILING SHALL BE IN ACCORDANCE WITH ACI 315
- PROVIDE FOLLOWING CONCRETE TYPES AT SPECIFIED AREAS AND WITH SPECIFIED 28-DAY COMPRESSIVE STRENGTH:
- SAND AND NORMAL WEIGHT COARSE AGGREGATE (145 PCF, MAX.), 0.50 MAXIMUM WATER/CEMENT RATIO, NO INTENTIONALLY ENTRAINED AIR:
- FOOTINGS AND FOUNDATION ELEMENTS 4000 PSI SLAB-ON-GRADE 4000 PSI
- 3.1.3. MISCELLANEOUS ARCHITECTURAL CURBS 3000 PSI MECHANICAL PADS
- SAND AND NORMAL WEIGHT COARSE AGGREGATE (145 PCF, MAX.), 0.45 MAXIMUM WATER/CEMENT RATIO, 6% PLUS-OR-MINUS 1 1/2% INTENTIONALLY ENTRAINED AIR,
- CONCRETE EXPOSED TO WEATHER 4000 PSI
- 4. UNLESS NOTED OTHERWISE, CONCRETE REINFORCING STEEL SHALL CONFORM TO ASTM A615. GRADE 60. 5. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. SUPPLY IN FLAT SHEETS
- (NOT ROLLS).
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.
- UNLESS NOTED OTHERWISE, "CONTINUOUS" REINFORCEMENT SHALL HAVE MINIMUM LAP OF CLASS "B" PER ACI 318 AT SPLICES AND SHALL HOOK AT DISCONTINUOUS ENDS. "CONTINUOUS" REINFORCEMENT SHALL BE CONTINUOUS THROUGH COLUMNS, PIERS, FOUNDATION CAPS OR OTHER INTERSECTING ELEMENTS. ALTERNATIVELY, "CONTINUOUS" REINFORCEMENT SHALL BE LAP SPLICED WITH A CLASS "B" LAP TO DOWELS IN THE INTERSECTING ELEMENTS THAT DEVELOP THE FULL YIELD STRENGTH OF THE "CONTINUOUS" REINFORCEMENT.
- LAPS OF WIRE MESH SHALL BE A MINIMUM OF TWO WIRE MESHES PLUS 2 INCHES. 9. JOINTS NOT INDICATED SHALL BE MADE AND LOCATED TO LEAST IMPAIR THE
- STRENGTH AND APPEARANCE OF THE STRUCTURE. HORIZONTAL JOINTS NOT PERMITTED IN CONCRETE EXCEPT WHERE THEY NORMALLY OCCUR OR WHERE INDICATED. VERTICAL JOINTS SHALL OCCUR ONLY AT LOCATIONS ACCEPTED BY STRUCTURAL ENGINEER.
- 10. MAXIMUM SPACING FOR CONSTRUCTION OR CONTROL JOINTS IN THE SLAB-ON-GRADE SHALL BE 10 FEET IN EACH DIRECTION. WHERE POSSIBLE CONSTRUCTION AND CONTROL JOINTS SHALL OCCUR ALONG COLUMN GRID LINES. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR JOINT FILLERS AND SEALANTS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION AND CONTROL JOINT LAYOUT AND DETAILS FOR ARCHITECT'S REVIEW AND ACCEPTANCE.
- 11. DO NOT CUT OR WELD REINFORCING STEEL WITHOUT PRIOR ACCEPTANCE OF STRUCTURAL ENGINEER
- 12. PROVIDE REBAR CHAIRS FOR REINFORCING STEEL. PROVIDE ADDITIONAL LONGITUDINAL SUPPORT BARS AS REQUIRED TO ASSURE PROPER SUPPORT FOR REINFORCING STEEL AND WIRE MESH.
- 13. DESIGN AND DETAILING OF FORMWORK AND SHORING SYSTEMS SHALL BE RESPONSIBILITY OF CONTRACTOR.

14. DO NOT REMOVE FORMWORK PRIOR TO CONCRETE ATTAINING 75% OF THE

- SPECIFIED 28-DAY COMPRESSIVE STRENGTH. 15. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS FOR FABRICATION AND INSTALLATION OF WORK. INCLUDE DETAILS AND REQUIREMENTS FOR FOLLOWING AND OTHER
- PERTINENT DATA: 15.1. REINFORCEMENT: DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES MEETING REQUIREMENTS OF ACI 315, ACI 318 AND CRSI - MANUAL OF
- STANDARD PRACTICE. 15.2. JOINTS: LOCATION AND DETAILS FOR CONSTRUCTION AND CONTROL JOINTS. 15.3. CONCRETE: TEST REPORTS FOR PROPOSED CONCRETING MATERIALS PROPOSED MIX DESIGN FOR EACH CLASS AND TYPE OF CONCRETE TO BE USED IN WORK AND INDICATING WHERE EACH MIX DESIGN IS TO BE PLACED IN THE WORK.

<u>STEEL</u>

2.5. OTHER FRAMING

- STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS AND STANDARDS.
- 2. STRUCTURAL STEEL ROLLED SHAPES AND PLATES IN THE FOLLOWING AREAS SHALL CONFORM TO THE DESIGNATED SPECIFICATION:
- 2.1. BEAMS ASTM A572-50 OR ASTM A992
- 2.2. ANGLES ASTM A36 2.3. PLATES ASTM A36, UNLESS NOTED OTHERWISE
- ASTM A36 2.4. CHANNELS
- 3. STRUCTURAL TUBING SHALL CONFORM TO ASTM A500, GRADE B (FY = 46 KSI). 4. STRUCTURAL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S,
- GRADE B (FY = 35 KSI MINIMUM).

ASTM A36, UNLESS NOTED OTHERWISE

- 5. UNLESS NOTED OTHERWISE, ANCHOR BOLTS SHALL CONFORM TO ASTM F1554,
- GRADE 36. INSTALL ANCHOR BOLTS WITH WASHERS AND NUTS.
- 6. BOLTED CONNECTIONS SHALL USE HIGH-STRENGTH BOLTS IN ACCORDANCE WITH THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
- WELDING SHALL CONFORM TO STANDARDS OF AWS D1.1. ELECTRODES FOR FIELD AND SHOP WELDING SHALL CONFORM TO AWS RECOMMENDATIONS. WELDS NOT INDICATED SHALL BE AWS MINIMUM OR AS REQUIRED TO SATISFY STRENGTH CRITERIA (WHICHEVER IS GREATER). FOLLOW PREHEAT REQUIREMENTS OF AWS. TO MINIMIZE THE USE OF PREHEAT, LOW HYDROGEN ELECTRODES MAY BE UTILIZED. LOW HYDROGEN ELECTRODES SHALL BE USED FOR WELDING TO CONCRETE EMBEDMENT PLATES OR OTHER STRUCTURAL STEEL ELEMENT IN CONTACT WITH CONCRETE OR MASONRY.
- SPLICING STRUCTURAL MEMBERS WHERE NOT DETAILED ON STRUCTURAL DRAWINGS IS PROHIBITED WITHOUT PRIOR ACCEPTANCE BY STRUCTURAL **ENGINEER**
- OPENINGS AND SLEEVES IN STRUCTURAL STEEL MEMBERS SHALL BE SHOP CUT ONLY. FIELD BURNING, CUTTING, REDRILLING OR OTHER FIELD MODIFICATION IS NOT PERMITTED ON STRUCTURAL STEEL MEMBERS WITHOUT PRIOR ACCEPTANCE OF STRUCTURAL ENGINEER.
- 10. GENERALLY, DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP VERSUS FIELD WELDING. CONTRACTOR SHALL DETERMINE THE MOST ECONOMICAL, EFFICIENT AND PRACTICAL COMBINATIONS OF FIELD AND SHOP WELDING
- 11. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS. FOR FIREPROOFING PURPOSES, FRAMING SHALL BE CONSIDERED AS "UNRESTRAINED" AS DEFINED BY UL.
- 12. UNLESS NOTED OTHERWISE, GALVANIZE STRUCTURAL STEEL NOT PROTECTED BY A CONTROLLED ENVIRONMENT. GALVANIZING SHALL CONFORM TO ASTM A123. TOUCH-UP GALVANIZING WITH PAINT CONFORMING TO TT-P-641.
- 13. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INDICATING SHOP AND ERECTION DETAILS, INCLUDING CUTS, COPES, CONNECTIONS, HOLES, THREADED FASTENERS AND WELDS. INDICATE WHICH CONNECTIONS ARE SLIP CRITICAL. INDICATE WELDS, BOTH SHOP AND FIELD, BY AWS WELDING SYMBOLS.
- 14. PRIMER ALKYD GRAY: MODIFIED ALKYD RUST-INHIBITIVE PRIMER, LEAD AND CHROMATE FREE, 54 PERCENT MINIMUM SOLIDS BY VOLUME, 3.2 LBS/GAL (383 G/L) MAXIMUM VOC UNTHINNED. ONE COAT COVERAGE, NON-IMMERSION SERVICE. MEETING USDA AND FDA ACCEPTABILITY REGULATIONS, GRAY COLOR, FLAT SHEEN FINISH.

LINTELS

- PROVIDE LINTEL OVER OPENINGS AND RECESSES IN MASONRY CONSTRUCTION.
- LINTELS SHALL HAVE 8" (MIN.) OF END BEARING.
- 3. FOR MASONRY WALL OPENINGS NOT OTHERWISE DETAILED OR SCHEDULED, MINIMUM LINTELS SHALL BE:
- 3.1. FOR EACH 4" OF MASONRY WIDTH:
 - LINTEL 0'-0" to 2'-0" $\frac{5}{16}$ " PLATE ($\frac{1}{2}$ " LESS THAN WALL WIDTH) 2'-0" to 4'-0" $L3\frac{1}{2}x3\frac{1}{2}x\frac{1}{4}$
 - 4'-0" to 6'-0" $L4x3\frac{1}{2}x\frac{1}{4}$ (LLV)
- $L5x3\frac{1}{2}x\frac{1}{4}$ (LLV) 6'-0" to 8'-0" FOR 6" (NOMINAL) MASONRY WALL:
- LINTEL 5/₆" PLATE (½" LESS THAN WALL WIDTH) 0'-0" to 2'-0" WT4x9 2'-0" to 4'-0"
- WT4x9 4'-0" to 6'-0" 6'-0" to 8'-0" L5x3 $\frac{1}{2}$ x $\frac{1}{4}$ (LLV) WITH $\frac{5}{16}$ "x5" BOTTOM PLATE
- 4. EXTERIOR LINTELS SHALL BE GALVANIZED.

- 1. COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) STANDARDS AND STRESS GRADED LUMBER CONSTRUCTION, LATEST EDITION.
- 2. DO NOT NOTCH, OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.
- 3. PROVIDE WOOD SPECIES WITH THE SPECIFIED GRADE FOR THE FOLLOWING **ELEMENTS**:
- 3.1. 2x4 AND 2x6 SUB-PURLINS SPRUCE PINE FIR (SPF) - NO.1 / NO.2 3.2. 2x4 AND 2x6 STUDS SPRUCE PINE FIR (SPF) - NO. 1 / NO. 2 HEMLOCK / FIR (H-F) - NO. 1 3.3. 2x8 AND 2x10 JOIST/PURLIN 2x12 JOIST/PURLIN 3.4. DOUGLAS FIR / LARCH (DF-L)- NO. 1 3.5. LEDGERS AND BLOCKING SPRUCE PINE FIR (SPF) - NO. 1 / NO. 2
- 4. PROVIDE APA STRUCTURAL I, (EXPOSURE 1 FOR ROOF AND BALCONIES ONLY) RATED PLYWOOD OR ORIENTED STRAND BOARD (OSB) SHEATHING BEARING THE APA TRADEMARK. SEE PLANS, AND DETAILS FOR REQUIRED THICKNESS OF SHEATHING. PROVIDE SHEATHING WITH SPAN RATINGS APPROPRIATE FOR THE LOADINGS INDICATED UNDER "DESIGN CRITERIA". PLACE SHEETS WITH STRONG AXIS PERPENDICULAR TO SUPPORTS. PROVIDE 1/8" GAP BETWEEN SHEATHING PANELS.
- 5. STEEL HANGERS AND STEEL CONNECTORS FOR WOOD FRAMING SHALL BE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER ACCEPTABLE TO STRUCTURAL ENGINEER. STEEL HANGERS AND STEEL CONNECTORS SHALL PROVIDE MINIMUM CAPACITIES INDICATED ON DRAWINGS.
- LAMINATED VENEER LUMBER (MICROLLAM LVL. AS PRODUCED BY TRUS-JOIST. ILEVEL) SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

2,600 PSI Fν 285 PSI 1,900,000 PSI 118,750 PSI 1,555 PSI Fc perpendicular 750 PSI 2,510 PSI Fc parallel

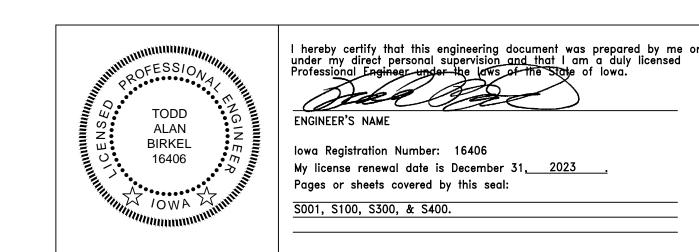
WOOD TRUSSES

- 1. FABRICATE, SUPPLY AND ERECT WOOD TRUSSES AS SHOWN ON THE DRAWINGS AND AS SPECIFIED. WORK TO INCLUDE ANCHORAGE, BLOCKING, CURBING, MISCELLANEOUS FRAMING AND BRACING
- 2. TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH APPLICABLE PROVISIONS OF LATEST EDITION OF NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS) AMERICAN FOREST AND PAPER ASSOCIATION (AFPA), AND DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED WOOD TRUSSES (ANSI/TPI 1), TRUSS PLATE INSTITUTE (TPI), AND CODE OF JURISDICTION
- 3. MANUFACTURER SHALL FURNISH DESIGN DRAWINGS BEARING SEAL AND REGISTRATION NUMBER OF A CIVIL OR STRUCTURAL ENGINEER LICENSED IN STATE WHERE TRUSSES ARE TO BE INSTALLED. DRAWINGS SHALL BE REVIEWED BY STRUCTURAL ENGINEER PRIOR TO FABRICATION.
- 4. TRUSS DESIGN DRAWINGS SHALL INCLUDE AS MINIMUM INFORMATION:
- A. SPAN, DEPTH OR SLOPE AND SPACING OF TRUSSES;
- B. REQUIRED BEARING WIDTH;
- C. DESIGN LOADS, AS APPLICABLE
- TOP CHORD LIVE LOAD;
- TOP CHORD DEAD LOAD
- BOTTOM CHORD LIVE LOAD; BOTTOM CHORD DEAD LOAD;
- CONCENTRATED LOADS AND THEIR POINTS OF APPLICATION
- WIND AND SEISMIC CRITERIA D. ADJUSTMENT TO LUMBER AND PLATE DESIGN LOADS FOR CONDITION OF USE;
- REACTIVE FORCES. THEIR POINTS OF OCCURRENCE AND DIRECTION:
- PLATE TYPE, GAGE, SIZE AND LOCATION OF PLATE AT EACH JOINT;
- G. LUMBER SIZE, SPECIES AND GRADE FOR EACH MEMBER H. LOCATION OF ANY REQUIRED CONTINUOUS LATERAL BRACING;
- CALCULATED DEFLECTION RATIO AND/OR MAXIMUM DEFLECTION FOR LIVE AND TOTAL LOAD;
- MAXIMUM AXIAL COMPRESSIVE FORCES IN TRUSS MEMBERS
- K. LOCATION OF JOINTS;
- CONNECTION REQUIREMENTS FOR: TRUSS TO TRUSS GIRDERS;
- 2) TRUSS PLY TO PLY; AND
- FIELD SPLICES
- LUMBER USED FOR TRUSS MEMBERS SHALL BE IN ACCORDANCE WITH PUBLISHED VALUES OF LUMBER RULES WRITING AGENCIES APPROVED BY BOARD OF REVIEW OF AMERICAN LUMBER STANDARDS COMMITTEE. LUMBER SHALL BE IDENTIFIED BY GRADE MARK OF A LUMBER INSPECTION BUREAU OR AGENCY APPROVED BY THAT BOARD, AND SHALL BE AS SHOWN ON DESIGN DRAWINGS
- MOISTURE CONTENT OF LUMBER SHALL BE NO LESS THAN 7 PERCENT NOR GREATER THAN 19 PERCENT AT TIME OF FABRICATION
- ADJUSTMENT OF VALUES FOR DURATION OF LOAD OR CONDITIONS OF USE SHALL BE IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION (NDS)
- 8. FIRE RETARDANT TREATED LUMBER, IF APPLICABLE, SHALL MEET SPECIFICATIONS OF TRUSS DESIGN AND ANSI/TPI 1-1995, PAR 9.1.5 AND SHALL BE RE-DRIED AFTER TREATMENT IN ACCORDANCE WITH AWPA STANDARD C20. ALLOWABLE VALUES MUST BE ADJUSTED IN ACCORDANCE WITH NDS PAR 2.3.6. LUMBER TREATER SHALL SUPPLY CERTIFICATE OF COMPLIANCE.
- 9. METAL CONNECTOR PLATES SHALL BE NOT LESS THAN .036 INCHES IN THICKNESS (20 GAGE) AND SHALL MEET OR EXCEED ASTM A653-94 GRADE 37, AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A653-94, COATING DESIGNATION G60. WORKING STRESSES IN STEEL ARE TO BE APPLIED TO EFFECTIVE RATIOS FOR PLATES AS DETERMINED BY TEST IN ACCORDANCE WITH APPENDIX E AND F OF
- ANSI/TPI 1-1995. 10. IN HIGHLY CORROSIVE ENVIRONMENTS, SPECIAL APPLIED COATINGS OR STAINLESS
- STEEL MAY BE REQUIRED. 11. AT THE REQUEST OF ARCHITECT, FURNISH A CERTIFIED RECORD THAT MATERIALS COMPLY WITH STEEL SPECIFICATIONS.
- 12. TRUSSES SHALL BE FABRICATED IN A PROPERLY EQUIPPED MANUFACTURING FACILITY OF A PERMANENT NATURE. TRUSSES SHALL BE MANUFACTURED BY EXPERIENCED WORKMEN, USING PRECISION CUTTING, JIGGING AND PRESSING EQUIPMENT MEETING REQUIREMENTS OF ANSI/TPI 1-1995, SECTION 4. TRUSS MEMBERS SHALL BE ACCURATELY CUT TO LENGTH ANGLE AND TRUE TO LINE TO ASSURE PROPER FITTING JOINTS WITHIN TOLERANCES SET FORTH IN ANSI/TPI 1-1995, SECTION 4, AND PROPER FIT WITH OTHER WORK.
- 13. TRUSSES SHALL BE UNLOADED ON SMOOTH GROUND TO AVOID LATERAL STRAIN. TRUSSES SHALL BE PROTECTED FROM DAMAGE THAT MIGHT RESULT FROM ON-SITE ACTIVITIES AND ENVIRONMENTAL CONDITIONS. PREVENT TOPPLING WHEN BANDING IS REMOVED.
- 14. HANDLE DURING INSTALLATION IN ACCORDANCE WITH HANDLING, INSTALLING AND BRACING WOOD TRUSSES (HIB-91), TPI, AND ANSI/TPI 1-1995. INSTALLATION SHALL BE CONSISTENT WITH GOOD WORKMANSHIP AND GOOD BUILDING PRACTICES AND SHALL BE RESPONSIBILITY OF TRUSS INSTALLER.
- 15. APPARENT DAMAGE TO TRUSSES, IF ANY, SHALL BE REPORTED TO MANUFACTURER PRIOR TO INSTALLATION.
- 16. TRUSSES SHALL BE SET AND SECURED LEVEL AND PLUMB, AND IN CORRECT LOCATION. TRUSSES SHALL BE HELD IN CORRECT ALIGNMENT UNTIL SPECIFIED PERMANENT BRACING IS INSTALLED. 17. CUTTING AND ALTERING OF TRUSSES IS NOT PERMITTED 18. CONCENTRATED LOADS SHALL NOT BE PLACED ATOP TRUSSES UNTIL ALL

SPECIFIED BRACING HAS BEEN INSTALLED AND DECKING IS PERMANENTLY NAILED

- IN PLACE. SPECIFICALLY AVOID STACKING FULL BUNDLES OF DECKING OR OTHER HEAVY MATERIALS ONTO UNSHEATHED TRUSSES 19. ERECTION BRACING IS ALWAYS REQUIRED. PROFESSIONAL ADVICE SHOULD
- ALWAYS BE SOUGHT TO PREVENT TOPPLING OR "DOMINOING" (CASCADING COLLAPSE) OF TRUSSES DURING INSTALLATION. 20. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND FURNISHING THE

MATERIALS USED FOR INSTALLATION AND PERMANENT BRACING.



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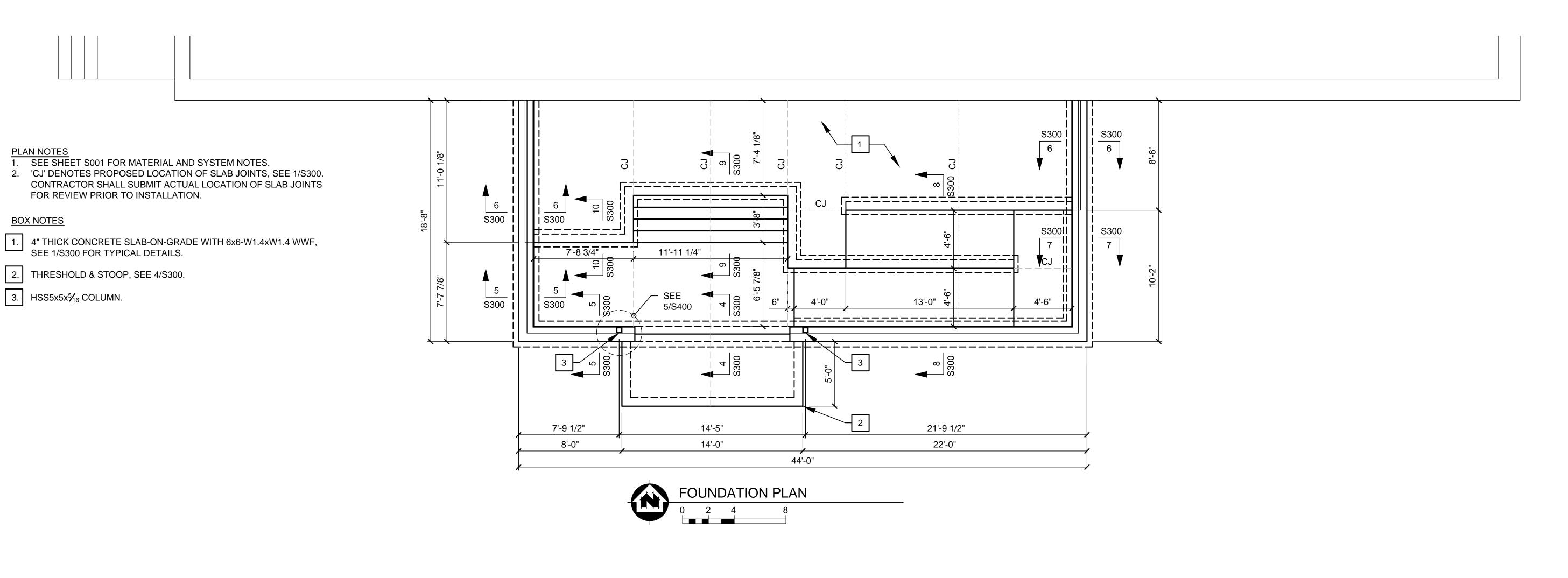
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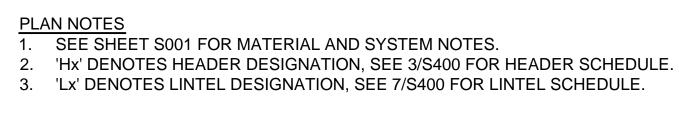
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BOX NOTES

PLAN NOTES

BOX NOTES

1. SEE SHEET S001 FOR MATERIAL AND SYSTEM NOTES.

FOR REVIEW PRIOR TO INSTALLATION.

2. THRESHOLD & STOOP, SEE 4/S300.

3. HSS5x5x⁵/₁₆ COLUMN.

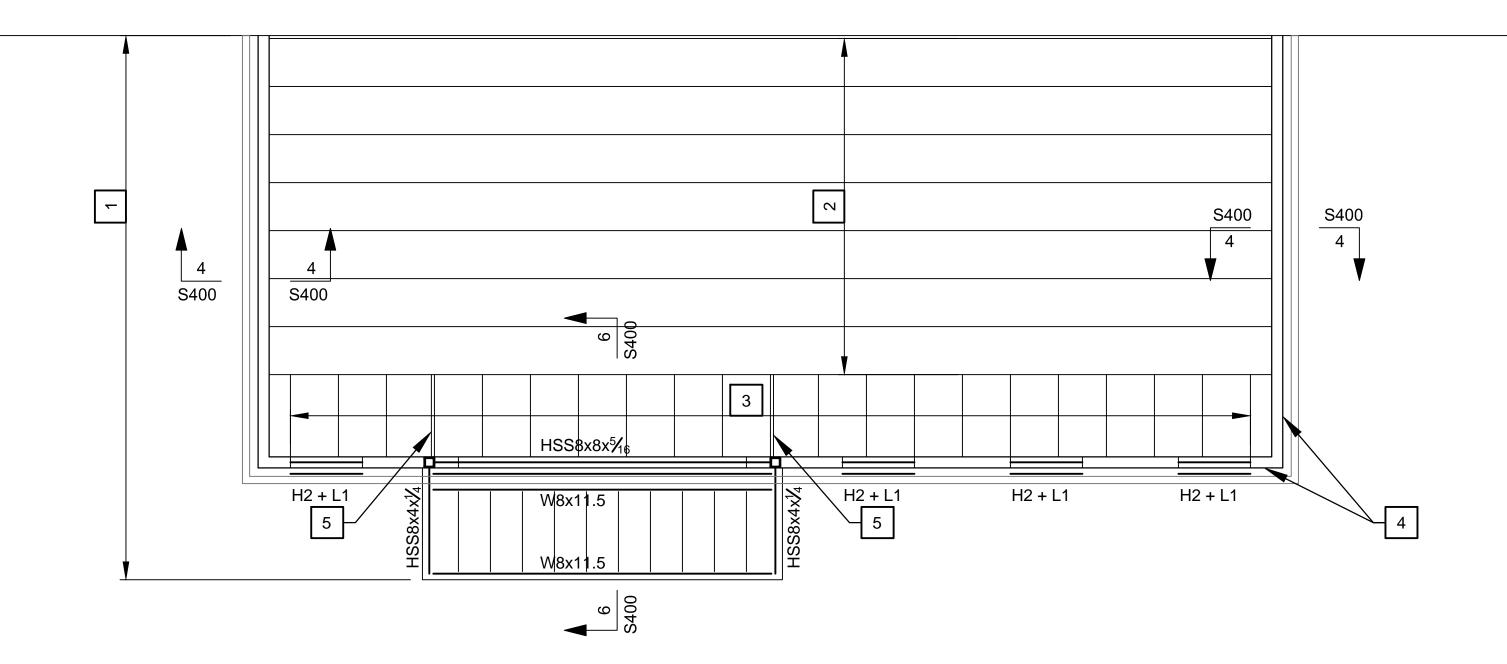
1. ½" WOOD ROOF SHEATHING ATTACHED 6d NAILS AT 6" O.C.

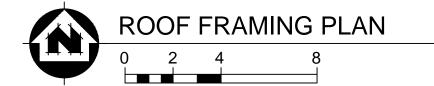
2. WOOD ROOF TRUSSES AT 2'-0" O.C. WITH SUPPORT/UPLIFT ANCHORAGE DESIGNED BY TRUSS MANUFACTURER EACH END, TYP. (SIMPSON H2.5A MIN.). THE ROOF FRAMING PLAN DEPICTS THE PROPOSED WOOD ROOF TRUSS CONFIGURATION FOR INFORMATION ONLY. THE TRUSS MANUFACTURER SHALL SUBMIT THE ACTUAL TRUSS CONFIGURATION FOR REVIEW. SEE TYPICAL DETAILS 1/S400 & 2/S400.

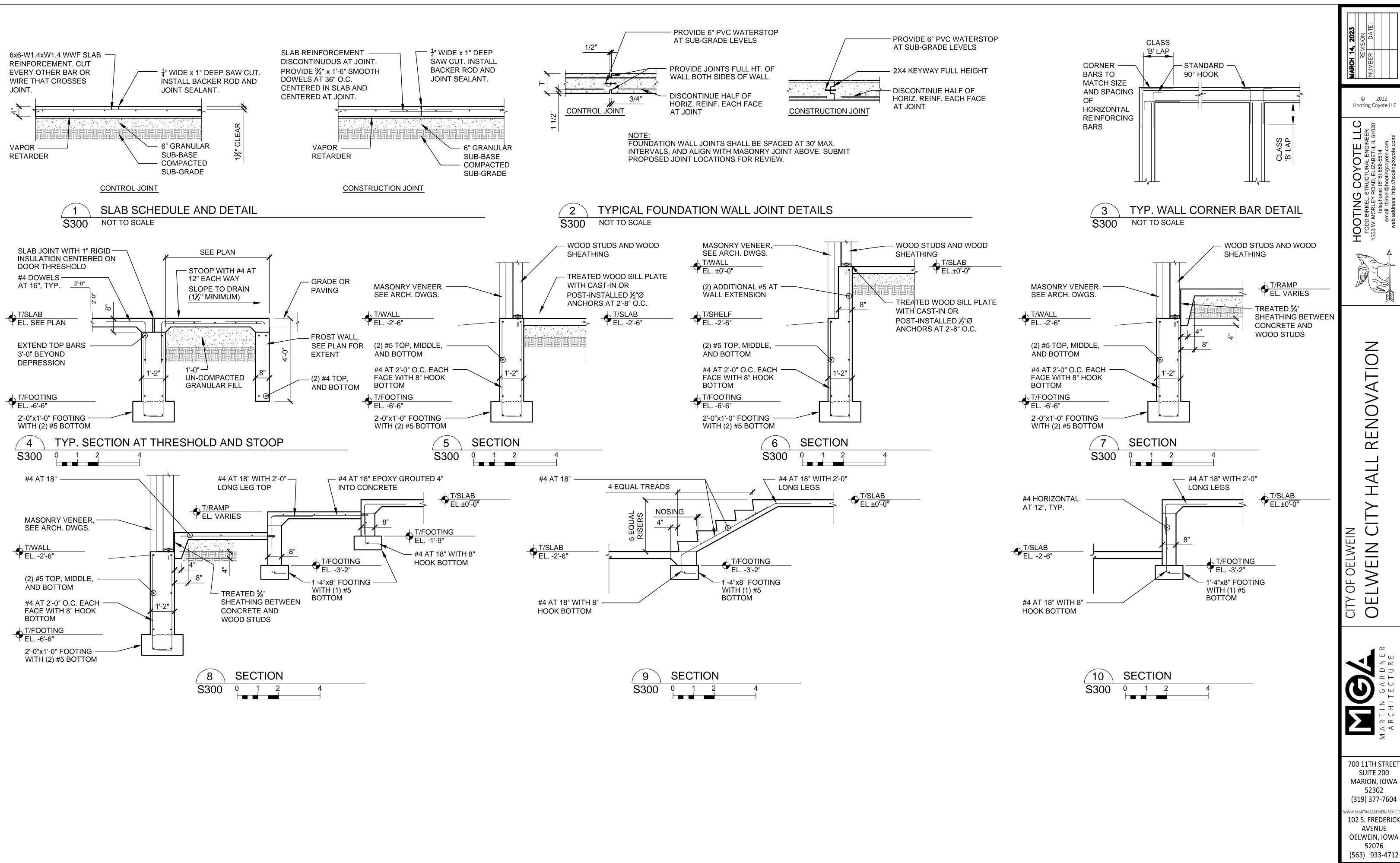
3. WOOD ROOF SUB-TRUSSES AT 2'-0" O.C. WITH SUPPORT/UPLIFT ANCHORAGE DESIGNED BY TRUSS MANUFACTURER EACH END, TYP. (SIMPSON H2.5A MIN.). THE ROOF FRAMING PLAN DEPICTS THE PROPOSED WOOD ROOF TRUSS CONFIGURATION FOR INFORMATION ONLY. THE TRUSS MANUFACTURER SHALL SUBMIT THE ACTUAL TRUSS CONFIGURATION FOR REVIEW. SEE TYPICAL DETAILS 1/S400 & 2/S400.

4. WOOD BEARING WALL COMRISED OF 2x6 WOOD STUDS AT 16" O.C. AND ½" WOOD WALL SHEATHING ATTACHED WITH 6d NAILS AT 6" O.C.

5. PROVIDE DOUBLE SUB-TRUSS AT COLUMN.







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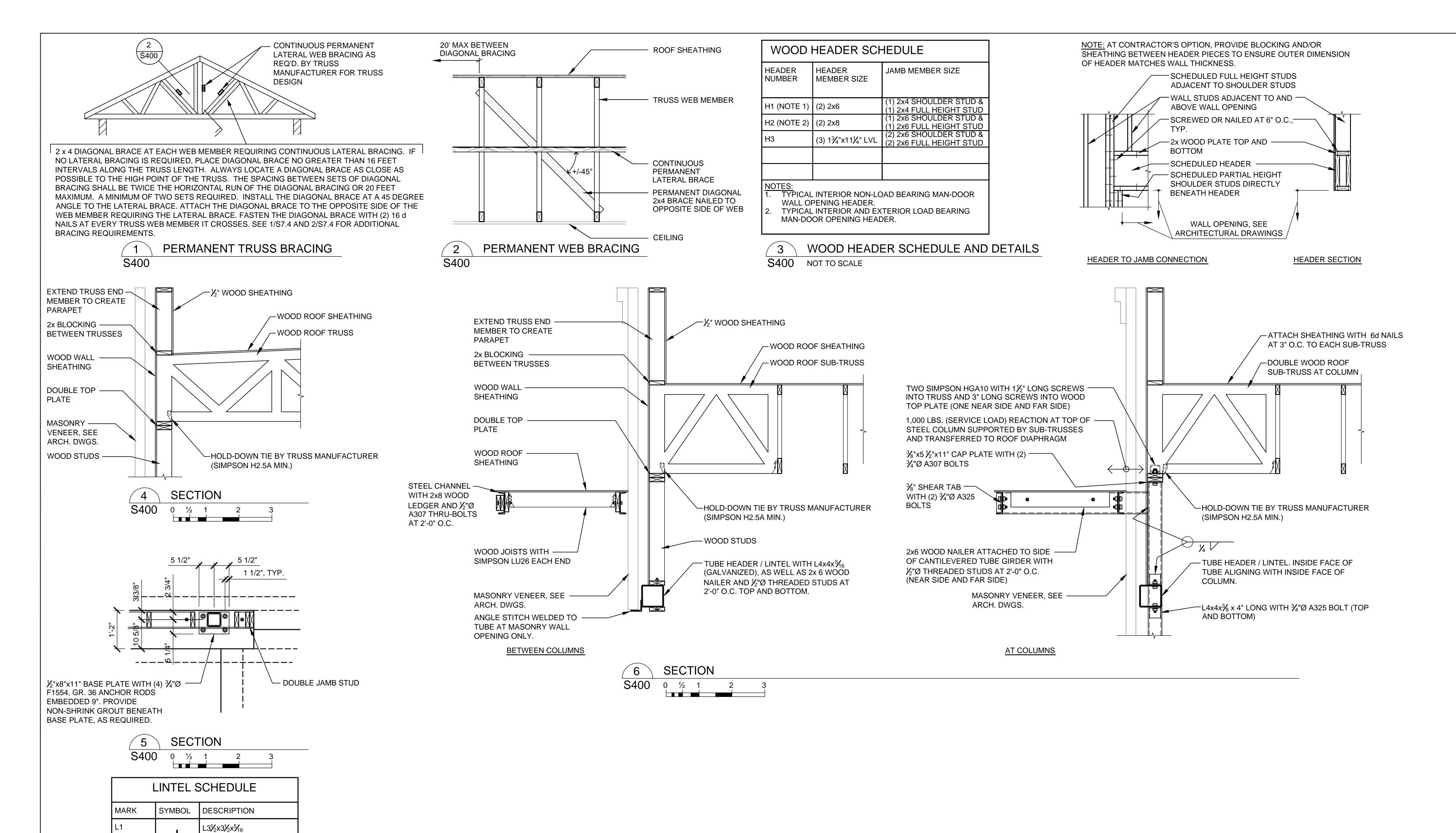
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S300



PROVIDE 8" OF BEARING ON SOLID

GROUTED MASONRY EACH END.

STEEL LINTELS SHALL BE HOT-DIP

GALVANIZED AFTER FABRICATION.

SECTION

S400 0 ½ 1

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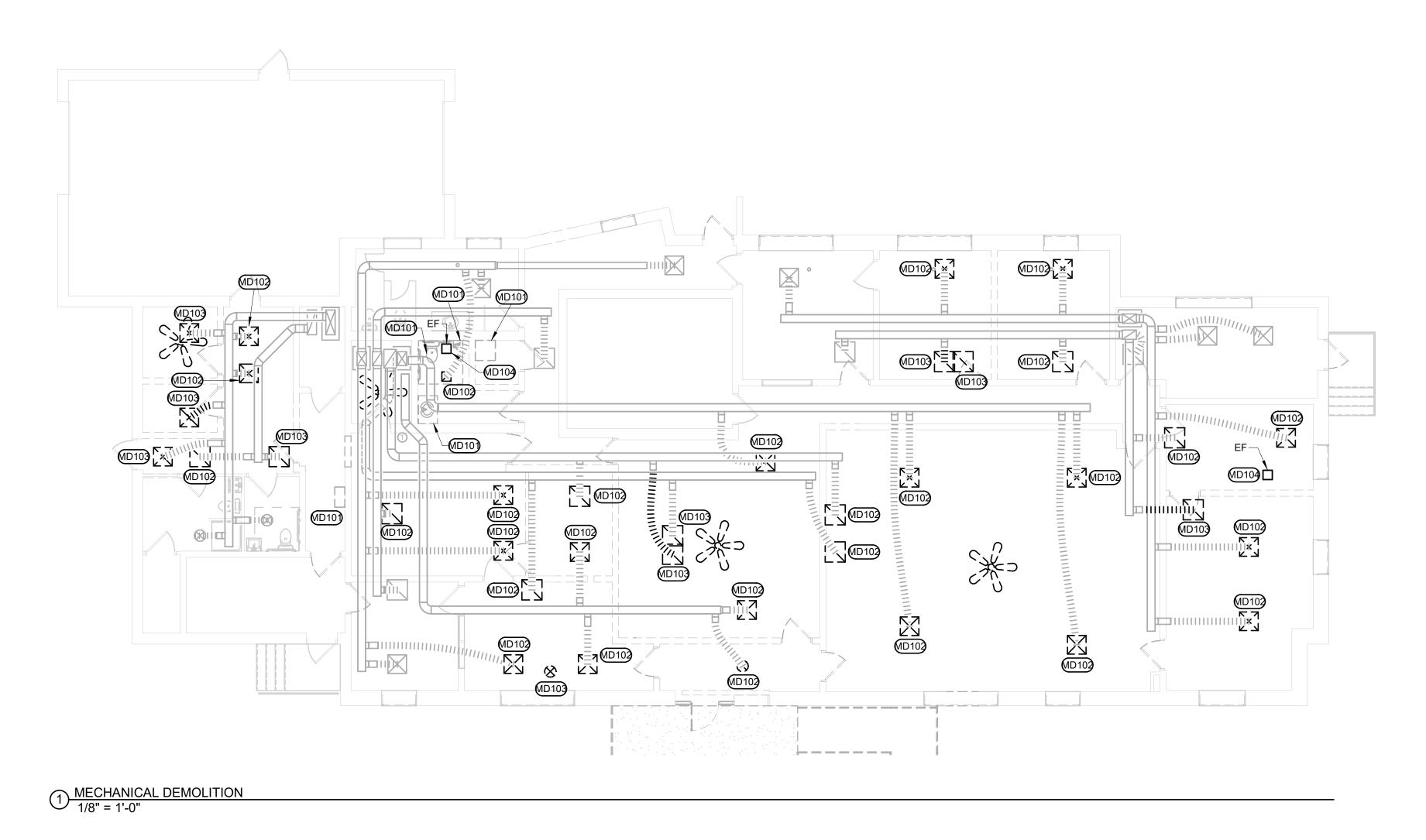
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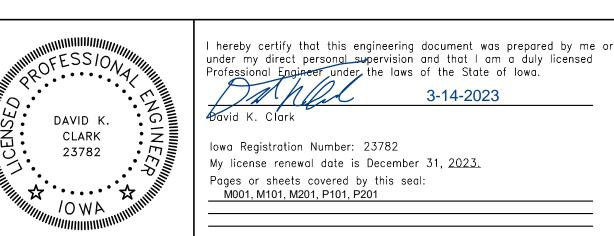


- NOT ALL DUCTWORK AND PIPING MAY NOT BE SHOWN ON THE DRAWINGS. CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING TO REVIEW SCOPE OF WORK.
- CONTRACTOR TO PATCH WALLS, FLOORS, AND CEILINGS AS REQUIRED WHERE OPENINGS ARE MADE AS A RESULT OF DEMOLITION OF PIPING AND EQUIPMENT.
- REMOVE DEMOLISHED MATERIAL FROM SITE DAILY TO KEEP AREAS CLEAR OF ACCUMULATED DEBRIS.
- COORDINATE ALL DEMO WITH NEW WORK. SPACE TO BE OCCUPIED BY OWNER DURING CONSTRUCTION.
- CONTRACTOR TO VERIFY ALL DIFFUSERS AND GRILLES BEFORE DEMOLITION. NOT ALL MAY BE SHOWN ON THE PLANS. BRING TO THE ATTENTION THE ENGINEER ANY ITEMS NOT ON THE PLANS

MECHANICAL SPECIFIC NOTES

BEFORE DEMOLITION.

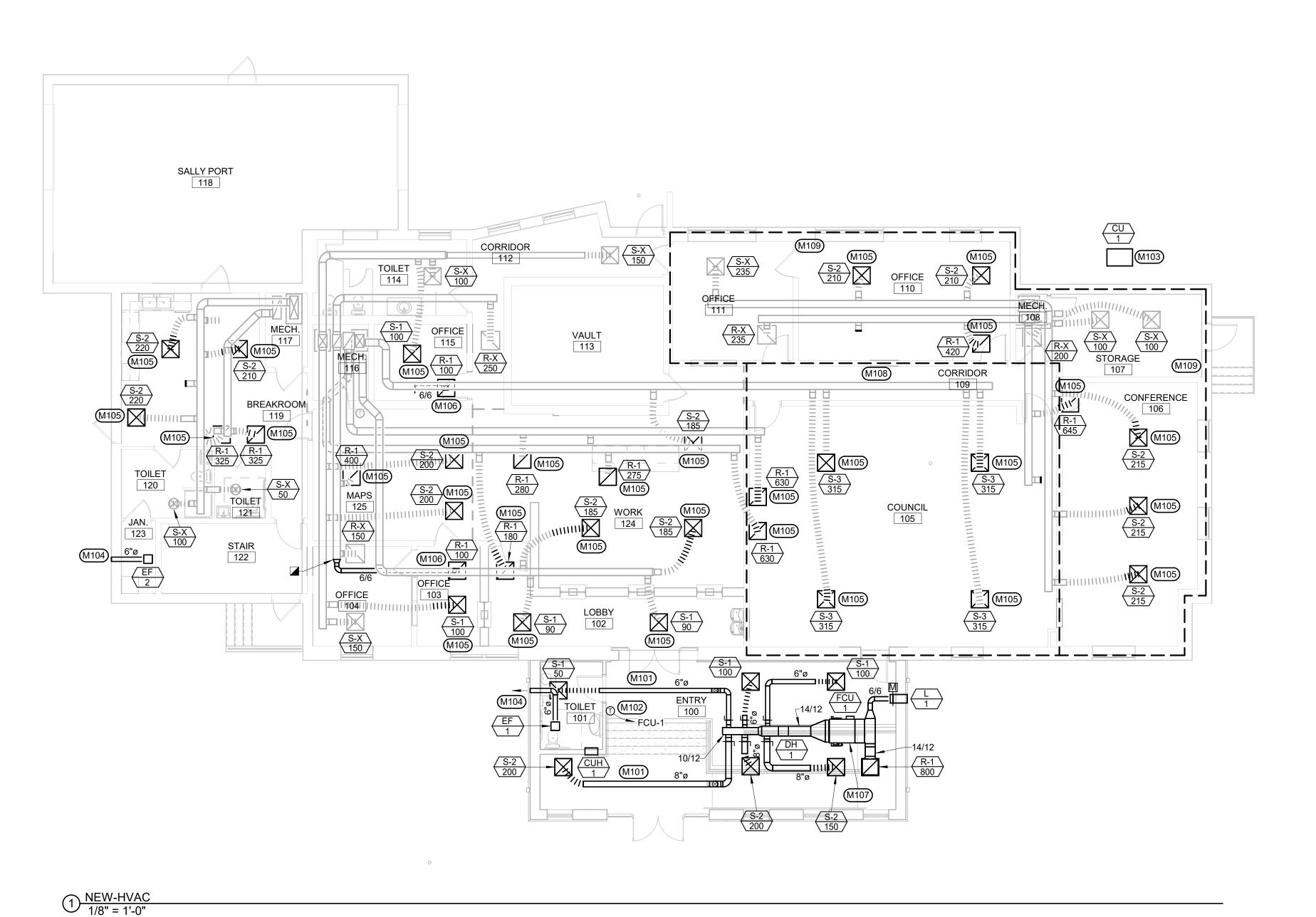
- MD101 REMOVE EXISING PLUMBING FIXTURE AND ALL ASSOCIATED PIPING BACK TO THE MAIN. CAP PIPING AT MAIN. FIELD VERIFY EXACT LOCATION. PATCH ANY OPENINGS AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR.
- MD102 REMOVE EXISTING SUPPLY/RETURN GRILLES AND DIFFUSERS AS SHOWN. FIELD VERIFY EXACT LOCATION. NEW DIFFUSER/GRILLE TO CONNECT TO EXISTING DUCTWORK.
- MD103 REMOVE EXISTING DUCTWORK AND SUPPLY/RETURN GRILLES AND DIFFUSERS AS SHOWN. CAP DUCT AT MAIN AS REQUIRED. REPAIR ANY OPENINGS AS REQUIRED. FIELD VERIFY EXACT
- LOCATION. MD104 REMOVE EXISTING EXHAUST DUCT AND FAN. REPAIR ANY OPENINGS AS REQUIRED. FIELD VERIFY EXACT LOCATION.



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GENERAL MECHANICAL NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODES ADOPTED BY THE STATE OF IOWA AND CITY OF OELWEIN, IA. INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
- INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
- FIRE CAULK ALL PIPE PENETRATIONS THAT PENETRATE FIRE RATED WALLS AND FLOOR/CEILING ASSEMBLIES. ALL NON RATED PENETRATIONS TO BE CAULKED TO REDUCE NOISE TRANSFER.
- CONTRACTOR TO CUT AND PATCH WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PIPING AND EQUIPMENT.
- DRAWINGS DO NOT SHOW ALL PIPE ELEVATION CHANGES AND TRANSITIONS. CONTRACTOR TO INCLUDE PIPE FITTINGS OFFSETS AS NEEDED TO COORDINATE WITH EXISTING WORK AND OTHER
- COORDINATE HANGER SUPPORT MATERIAL WITH STRUCTURAL CONDITIONS.
- G. COORDINATE NEW WORK WITH ALL OTHER TRADES.
- NOT ALL DUCT TRANSITIONS INCLUDING RISES, DROPS AND NECK DOWNS ARE SHOWN ON PLANS. CONTRACTOR SHALL SHOW ALL REQUIRED TRANSITIONS ON COORDINATION SHOP DRAWINGS. ASSUME SOME ARE REQUIRED TO OFFSET AROUND ARCHITECTURAL AND MEP ITEMS. COORDINATE WITH OTHER TRADES. PROVIDE OFFSET AS NECESSARY.
- PROVIDE TURNING VANES PER SMACNA IN ALL 90 DEGREE AND 45 DEGREE ELBOWS.
- DESIGN WAS BASED UPON OBSERVATIONS AND LIMITED CONFIRMATION OF DUCT DISTRIBUTION. CONTRACTOR SHALL VERIFY DUCT DISTRIBUTION AND SIZING BEFORE STARTING WORK. NOTIFY ENGINEER OF ANY DISCREPANCY THAT MAY REQUIRE MODIFICATION OF DESIGN.
- BALANCE EXISTING REMAINING DIFFUSERS AND GRILLES TO NEW CFM AS SHOWN ON PLANS.
- MECHANICAL SPECIFIC NOTES M101 ROUTE DUCTWORK IN ATTIC SPACE ABOVE GYP CEILING. DOUBLE WRAP WITH INSULATION AS
- REQUIRED. M102 MOUNT THERMOSTAT AT 48 INCHES ABOVE
- FINISHED FLOOR. M103 MOUNT CONDENSING UNIT ON 4" THICK CONCRETE PAD. EXTEND PAD 6" BEYOND UNIT IN ALL DIRECTIONS. ROUTE REFRIGERANT PIPING TO ASSOCIATED COOLING COIL. SIZE AS PER MANUFACTURER'S RECOMMENDATIONS.
- M104 6 INCH EXHAUST DUCT OUT THROUGH SIDE WALL.
- TERMINATE WITH HOODED WALL CAP. M105 CONNECT TO EXISTING SUPPLY / RETURN DUCTWORK SERVING NEARBY DEMOLISHED DIFFUSER / GRILLE. FIELD VERIFY EXACT LOCATION OF DUCTWORK. ASSUME SOME DUCT MODIFICATION OR EXTENSION IS REQUIRED.
- M106 PROVIDE DUCT CONNECTION FROM NEW DIFFUSER OR GRILLE TO EXISTING DUCT MAIN SERVING THE SPACE. FIELD VERIFY EXACT LOCATION.
- M107 PROVIDE WITH NEOPRENE HANGER MOUNT
- VIBRATION ISOLATORS.
- M108 THIS WORK IS PART OF ALTERNATE BID A-1.
- M109 THIS WORK IS PART OF ALTERNATE BID A-2.

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LOUVER SCHEDULE UNIT MANUFACTURER'S SIZE S.P. FREE AREA NO DESIGNATION FUNCTION W"XH" CFM (IN. W.G) VELOCITY (FPM) REMARKS _-1 | GREENHECK ESD-403 | FCU-1 OA | 12 x 12 | 100 | 0.02 | 330 | 1-5 NOTES 1. PROVIDE WITH BIRD SCREEN.

2. ARCHITECT TO SELECT COLOR FROM MANUFACTURER'S STANDARD COLOR SELECTIONS.

3. ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH. 4. COORDINATE FRAME TYPE WITH ARCHITECTURE DETAILS.

NOTES: 1. COORDINATE FRAME STYLE WITH CEILING, WALL, SILL AND/OR DUCT

2. NECK SIZE TO MATCH DUCT SIZE UNLESS NOTED OTHERWISE. 3. TRANSITION DUCT AS REQUIRED TO THROAT SIZE OF GRILLE OR REGISTER.

24 18.6 24 10 - -DAIKIN - FDMQ24RVJU 24 18.6 24 10 208/1/60 19.8 20 DAIKIN - RXL24UMVJUA **ENTRY** 2. PROVIDE WITH CONDENSATE PUMP AND ROUTE CONDENSATE LINE TO MOP SINK. 5. PROVIDE PAD FOR GROUND MOUNTED INSTALLATION.

SPLIT HEAT PUMP SYSTEM SCHEDULE

SERVES

EQUIPMENT

TYPE

INDOOR CEILING FAN COIL

OUTDOOR AIR CONDITIONER

4. PROVIDE UNIT MOUNTED DISCONNECT.

3. POWERED BY OUTDOOR UNIT.

NOTES: 1. PROVIDE WITH MERV 8 FILTERS.

MANUFACTURERS

DESIGNATION

		DUCT HEAT	ΓER	SC	ΗE	DU	LE				
UNIT	MANUFACTURER'S		DUCT	DIMENS	SIONS		ELE	CTRICA	\L		
NO	DESIGNATION	OPTIONS	W	Н	D	KW	STAGES	V	PH	HZ	NO
DH-1	INDEECO - QUA	C1,L6,M6,Q,Q3,T2,U6,Z2	14"	12"	8"	6	1	208	1	60	

ELEC	CTRIC CABIN	ET U	NIT HE	EATER SO	CHEDULE
ITEM	MANUFACTURER'S			ELECTRIC	
NO	DESIGNATION	KW	BTU/HR	V/PH	NOTES
CUH-1	TRANE UHWA031A2AT	3	10,239	208/1	1,2,3
NOTES:	1. PROVIDE BUILT-IN DISCONNEC	T SWITCH.			
	2. RECESS UNIT INTO WALL.				
	3. PROVIDE UNIT MOUNTED TAME	ER PROOF TH	IERMOSTAT.		

COOLING HEATING

MBH SEER MBH HSPF V/PH/HZ MCA MOCP

ELECTRIC

	F	FAN	SC	HED	ULE			
UNIT	MANUFACTURER'S		S.P.D.	TOTAL	MOTOR			
NO	DESIGNATION	CFM	(IN)	WATTS	HP	ELEC.	SONES	NOTE
EF-1	GREENHECK SP-110-VG	70	0.375	8	-	115/1	0.3	1-5
EF-2	GREENHECK SP-110-VG	70	0.375	8	-	115/1	0.3	1-4,6
NOTES:	1. PROVIDE WITH FACTORY INSTA	LLED BAC	KDRAFT DA	MPER AND E	BIRDSCREEN.		•	
	2. PROVIDE WITH STANDARD PRE	WIRED DIS	SCONNECT.					
	3. ENERGY STAR RATED IF AVAILA	ABLE.						
4. PROVIDE WITH HOODED WALL CAP OR ROOF CAP. ARCHITECT TO SELECT COLOR.								
5. FAN SHALL BE ENERGIZED VIA THE LIGHT SWITCH IN THEIR RESPECTIVE ROOM.								
6. FAN SHALL RUN CONTINUOUSLY								

		5. PROVIDE WITH LOW VOLTAGE MOTORZIED DAMPER. INTERLOCK WITH FAN COIL FAN OPERATION.												
R	REGISTER G	RILLES	SAND	DIFF	FUSER	SCH	EDU	LE						
UNIT	MANUFACTURER'S	NOMINAL	THROAT	MAX		T.P.D.								
NO	DESIGNATION	SIZE	SIZE	CFM	THROW	(IN.)	NC	REMARKS						
S-1	TITUS - OMNI	24" x 24"	6"	175	3-4-8	0.06	17	1,2,3						
S-2	TITUS - OMNI	24" x 24"	8"	250	3-5-10	0.06	12	1,2,3						
S-3	TITUS - OMNI	24" x 24"	10"	430	5-8-14	0.11	20	1,2,3						
S-X	EXISTING SUPPLY	-	-	-	-	-	-	5						
R-1	TITUS - 50F	24" x 24"	22" x 22"	2200	-	0.10	20	1,4						
R-X	EXISTING RETURN	-	_	_	_	-	_	5						

4. PROVIDE OR BUILD A SHEETMETAL BACK PAN FOR EXHUAST OR RETURN DUCT CONNECTION. 5. BALANCE AIRFLOWS TO NEW CFM SHOWN ON PLANS.

MANUAL VOLUME DAMPER STRUCTURE, AS CLOSE TO TAKE-OFF TYPICAL AS POSSIBLE	
FLEX DUCT WITH FLEX ELBOW FOR SOUND ATTENUATION (MAX. LENGTH PER SPECIFICATIONS)	
THEMAFLEX FLEXFLOW (OR EQUAL) TO MAINTAIN A 1.5xDIA. ELBOW, RIGID ELBOW ACCEPTABLE	
OTFS:	

1 INTAKE LOUVER NOT TO SCALE

→ WALL & LINTEL

—CAULK ALL AROUND

CONSTRUCTION

-INSECT SCREEN

ALUM LOUVER

---DRAIN TUBE

SILL EXTENSION CAULK

-HEAD SECTION (JAMB SIMILAR)

ANCHOR SECURELY TO WALL

1. INSTALL ONE DUCT DIAMETER OF STRAIGHT DUCTWORK WHEREVER POSSIBLE.

MOTORIZED

DUCTWORK

SLOPES AT

LOUVER

CAULK

1-1/2" RIGID INSULATION

DAMPER

2 TYPICAL DIFFUSER BRANCH DETAIL NO SCALE

MECHANICAL SYMBOLS

—RHW— CIRCULATING HOT WATER PIPE

—RHW— UNDERGOUND CIRCULATING HOT WATER PIPE

--AV-- ACID RESISTANT VENT PIPE

-SRHW- SOFT CIRCULATING HOT WATER PIPE

COMPRESSED AIR OUTLET

—LPS— LOW PRESSURE STEAM

—LPR— LOW PRESSURE RETURN

— —V— — VENT PIPE

—HG— HOT GAS

—GE— GAS EVACUATION PIPE

——A—— CLINICAL AND LAB AIR PIPE

CLINICAL AIR OUTLET

GAS EVACUATION OUTLET

FIRE DEPT. HOSE VALVE

RECESSED SPRINKLER HEAD

PRESSURE/TEMPERATURE TAP

_____ STATIC PRESSURE SENSOR

→ BACK FLOW PREVENTER

THERMOSTAT W/LOCKABLE

DEMOLITION HATCHING

FLOW CONTROL VALVE

O_N NIGHT THERMOSTAT

— STRAINER VALVE

THERMOSTAT

COVER

FLOW SWITCH

MANUAL VOLUME DAMPER

DUCT RISE OR DROP IN DIRECTION OF AIR FLOW

12/8 DUCT DIMENSION- WIDTH x DEPTH

TYPE OF EQUIP EQUIPMENT DESIGNATION EQUIP.NO.

DUCT TURN AND AIR SPLIT TYPE TAKEOFF (NON-ADJUSTABLE)

S-1 TYPE OF EQUIP GRILLE, REGISTER & DIFFUSER DESIGNATION

FLEX DUCT (5' MAXIMUM)

HUMIDISTAT

BRANCH DUCT INTO SIDE OF MAIN DUCT

DUCT INSULATION (SEE SPECIFICATION)

SUPPLY, RETURN, EXHAUST, & TRANSFER

FLOW ALARM

PRESSURE GAUGE

THERMOMETER

─── STRAINER

── STEAM TRAP

—HW— HOT WATER PIPE UNDERGROUND HOT WATER

—SAN— ABOVE FLOOR WASTE PIPE

— ST — ABOVE FLOOR STORM PIPE

-OST - ABOVE FLOOR OVERFLOW STORM PIPE

-AW-ABOVE FLOOR ACID RESISTANT WASTE PIPE

-PD - PUMP DISCHARGE

—SHW— SOFT HOT WATER PIPE

— LS — LAWN SPRINKLER PIPE

-MPS- MEDIUM PRESSURE STEAM -MPR- MEDIUM PRESSURE RETURN

— LP — LIQUEFIED PETROLEUM GAS

—HWR— HOT WATER HEATING RETURN

—CWR— CHILLED WATER RETURN PIPE

— CR — CONDENSER WATER RETURN PIPE

-HPWR- HEAT PUMP WATER RETURN

-RS - REFRIGERANT SUCTION PIPE

CLINICAL AND LAB VACUUM

—VAC— CLINICAL AND LAB VACUUM

—FOR— FUEL OIL RETURN

—FOG— FUEL OIL GAUGE

—N— NITROGEN PIPE

NITROGEN OUTLET

DOWN SPOUT

——• UPRIGHT SPRINKLER HEAD

FLOW MEASURING DEVICE

CAPPED OUTLET

──── SHUT OFF VALVE

── BALANCING VALVE

——— CONTROL VALVE

—— CHECK VALVE

ROOF DRAIN

^{AD}● AREA DRAIN

─── CURB STOP

→ 3-WAY CONTROL VALVE

PRESSURE RELIEF VALVE

PRESSURE REDUCING VALVE

DOMESTIC WATER TEMPERING VALVE

OVERFLOW ROOF DRAIN

CONNECT TO EXIST. SERVICE

VENTILATION SYMBOLS

EXPANSION JOINT, PIPE GUIDE

POST INDICATOR VALVE

CLINICAL F

SP STAND PIPE

AIR VENT

-GLWR- GROUND LOOP WATER RETURN

--HW-- PIPE

—CW— COLD WATER PIPE

—PD— PUMP DISCHARGE

--CW— UNDERGROUND COLD WATER PIPE

—SAN— UNDERFLOOR WASTE PIPE

—ST— UNDERFLOOR STORM PIPE

-OST - UNDERFLOOR OVERFLOW STORM PIPE

—S— COLD SOFT WATER PIPE

—CA— COMPRESSED AIR PIPE

—HPS— HIGH PRESSURE STEAM

—HPR— HIGH PRESSURE RETURN —PC— PUMPED CONDENSATE PIPE

—HWS— HOT WATER HEATING SUPPLY

—CWS— CHILLED WATER SUPPLY PIPE

—CS— CONDENSER WATER SUPPLY PIPE

-HPWS- HEAT PUMP WATER SUPPLY

-RL- REFRIGERANT LIQUID PIPE

NITROUS OXIDE OUTLET

——O—— PENDANT TYPE SPRINKLER HEAD

CONCEALED SPRINKLER HEAD

-GLWS- GROUND LOOP WATER SUPPLY

——G— NATURAL GAS

—FOS— FUEL OIL SUPPLY

—FOV— FUEL OIL VENT

—O— OXYGEN PIPE

—NO— NITROUS OXIDE PIPE

OXYGEN OUTLET

—D— EQUIPMENT DRAIN

——— PIPE CONNECTION

C ELBOW DOWN

PIPE PITCH DOWN

→ DIRECTION OF FLOW

REDUCER OR INCREASER

FLEXIBLE PIPE CONNECTION

CLEAN OUT ABOVE FLOOR

ELBOW UP

TEE DOWN

→ PIPE ANCHOR

WHH---- WALL HYDRANT

wco

FLOOR DRAIN

FS FLOOR SINK

CLEAN OUT IN FLOOR

RADIATION ELEMENT

RAD-1 TYPE RADIATION DESIGNATION

5'-0" FINNED ELEMENT
LENGTH

SUPPLY DUCT (UP & DOWN)

RETURN DUCT (UP & DOWN)

EXHAUST DUCT (UP & DOWN)

DUCT TURN WITH TURN VANES

FLEXIBLE DUCT CONNECTION

LOW PRESURE DUCTWORK MAX 2" W.G. PRESSURE

MEDIUM PRESSURE DUCTWORK

F - FIRE DAMPER M - MOTORIZED DAMPER S - SMOKE DAMPER B - BACKDRAFT DAMPER C - COMBINATION FIRE SMOKE DAMPER

W STANDARD RADIUS ELBOW

R EQUAL W (MINIMUM)

SPIRAL DUCTWORK

2"-6" W.G. PRESSURE

HH----- HOSE BIB

── UNION

——F—— FIRE SPRINKLER PIPE

—AW— UNDERFLOOR ACID WASTE PIPE

MECHANICAL SYMBOLS & DETAILS

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700 11TH ST

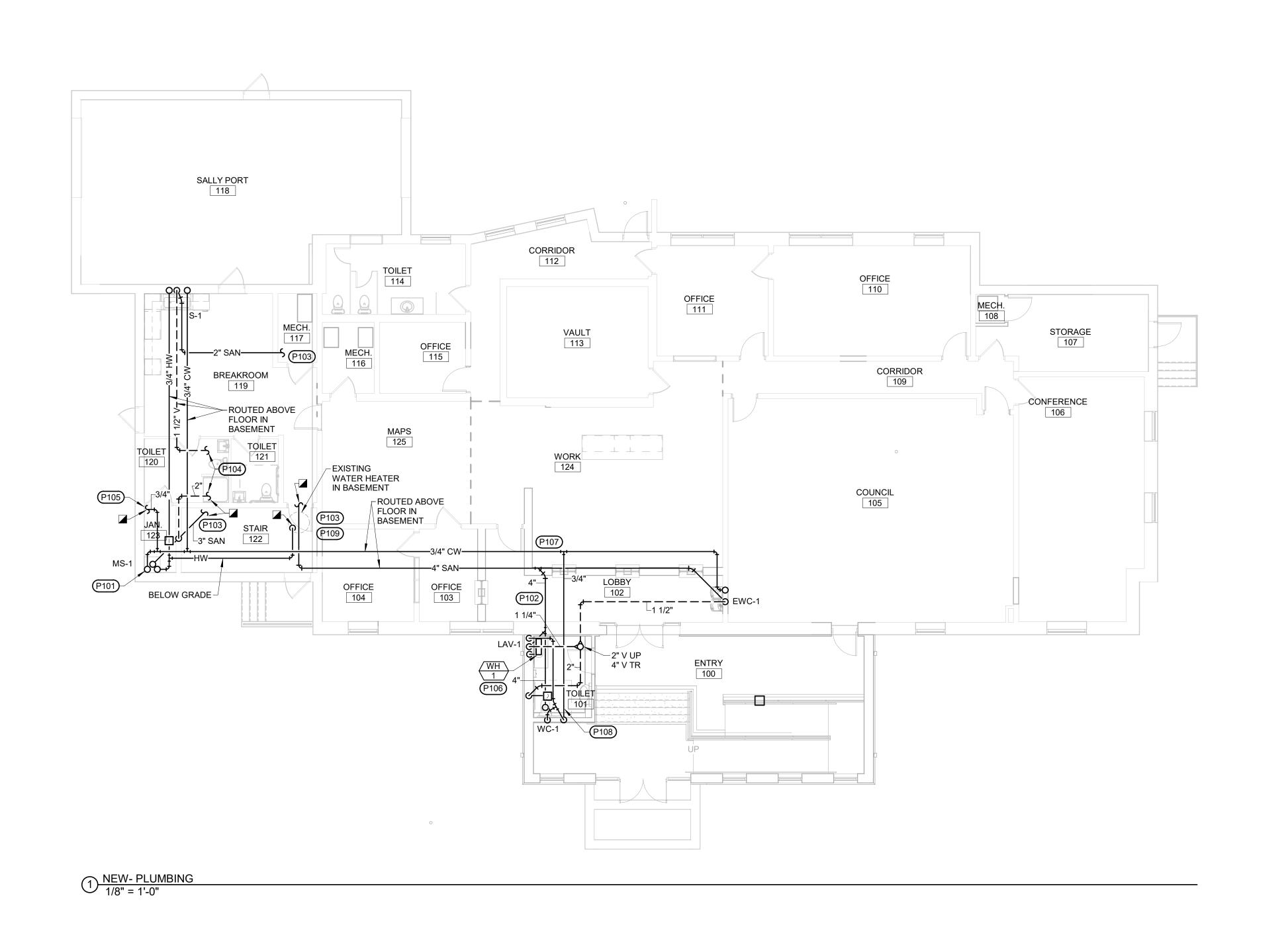
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UNDERFLOOR SANITARY AND VENT



GENERAL PLUMBING NOTES:

- ALL WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODES ADOPTED BY THE STATE OF IOWA AND CITY OF OELWEIN, IA. INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
- COORDINATE THE PLUMBING WITH THE WORK OF ALL OTHER TRADES.
- INSTALL ALL EQUIPMENT PER THE MANUFACTURER'S RECOMMENDATIONS.
- FIRE CAULK ALL PIPE PENETRATIONS THAT PENETRATE FIRE RATED WALLS AND FLOOR/CEILING ASSEMBLIES.
- CONTRACTOR TO CUT AND PATCH WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PIPING AND EQUIPMENT.
- DRAWINGS DO NOT SHOW ALL PIPE ELEVATION CHANGES AND TRANSITIONS. CONTRACTOR TO INCLUDE PIPE FITTINGS OFFSETS AS NEEDED TO COORDINATE WITH EXISTING WORK AND OTHER TRADES.
- G. COORDINATE HANGER SUPPORT MATERIAL WITH STRUCTURAL CONDITIONS.
- DRAWINGS DO NOT SHOW ALL ISOLATION VALVES. INCLUDE VALVES ON BRANCH TAKE-OFFS OF PIPING MAINS.

PLUMBING SPECIFIC NOTES

P101 FURR OUT WALL TO ALLOW FOR HOT AND COLD WATER PIPE. P102 SAW CUT FLOOR AS REQUIRED TO INSTALL ALL UNDERFLOOR NEW PIPING. PATCH TO MATCH EXISTING. COORDINATE WITH GENERAL

CONTRACTOR. P103 CONNECT TO EXISTING SANITARY LINES ABOVE GRADE IN BASEMENT. FIELD VERIFY EXACT

LOCATION. P104 CONNECT TO EXISTING VENT LINE SERVING RESTROOM.FIELD VERIFY EXACT LOCATION.

P105 CONNECT TO EXISTING INCOMING COLD WATER MAIN IN BASEMENT. FIELD VERIFY EXACT LOCATION.

P106 INSTALL WATER HEATER BELOW LAVATORY. P107 PIPING TO BE INSALLED IN EXISTING TUNNEL. FIELD VERIFY EXACT LOCATION.

P108 COLD WATER PIPING BELOW GRADE TO BE ONE CONTINUOUS PIECE OF PIPE.

P109 CONNECT TO EXISING HOT WATER LINE AT WATER HEATER. FIELD VERIFY EXACT LOCATION.

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——• UPRIGHT SPRINKLER HEAD

FLOW MEASURING DEVICE

E CAPPED OUTLET

──── SHUT OFF VALVE

── BALANCING VALVE

——— CONTROL VALVE

—— CHECK VALVE

─── CURB STOP

3-WAY CONTROL VALVE

PRESSURE RELIEF VALVE

PRESSURE REDUCING VALVE

CONNECT TO EXIST. SERVICE

EXPANSION JOINT, PIPE GUIDE

POST INDICATOR VALVE

AIR VENT

-MPR- MEDIUM PRESSURE RETURN —HPR— HIGH PRESSURE RETURN —PC— PUMPED CONDENSATE PIPE ——G— NATURAL GAS — LP — LIQUEFIED PETROLEUM GAS —HWS— HOT WATER HEATING SUPPLY —HWR— HOT WATER HEATING RETURN —CWS— CHILLED WATER SUPPLY PIPE —CWR— CHILLED WATER RETURN PIPE —CS— CONDENSER WATER SUPPLY PIPE — CR — CONDENSER WATER RETURN PIPE -HPWS- HEAT PUMP WATER SUPPLY -HPWR- HEAT PUMP WATER RETURN

-GLWS- GROUND LOOP WATER SUPPLY -GLWR- GROUND LOOP WATER RETURN —FOS— FUEL OIL SUPPLY —FOR— FUEL OIL RETURN —FOV— FUEL OIL VENT —FOG— FUEL OIL GAUGE -RL- REFRIGERANT LIQUID PIPE -RS - REFRIGERANT SUCTION PIPE

—O— OXYGEN PIPE —VAC— CLINICAL AND LAB VACUUM —NO— NITROUS OXIDE PIPE —N— NITROGEN PIPE CLINICAL / OUTLET CLINICAL AND LAB VACUUM OXYGEN OUTLET NITROUS OXIDE OUTLET ∧ NITROGEN OUTLET DOWN SPOUT —D— EQUIPMENT DRAIN SP STAND PIPE

——F—— FIRE SPRINKLER PIPE ——O—— PENDANT TYPE SPRINKLER HEAD ——— CONCEALED SPRINKLER HEAD — † PIPE CONNECTION

ELBOW DOWN ELBOW UP TEE DOWN PIPE PITCH DOWN → DIRECTION OF FLOW → PIPE ANCHOR

REDUCER OR INCREASER **──** UNION FLEXIBLE PIPE CONNECTION

WH WALL HYDRANT HH---- HOSE BIB CLEAN OUT ABOVE FLOOR

wco CLEAN OUT IN FLOOR

FD FLOOR DRAIN FS FLOOR SINK RADIATION ELEMENT

RAD-1 TYPE RADIATION DESIGNATION

5'-0" FINNED ELEMENT
LENGTH

—HW— HOT WATER PIPE UNDERGROUND HOT WATER —RHW— CIRCULATING HOT WATER PIPE —RHW— UNDERGOUND CIRCULATING HOT WATER PIPE

— —V— — VENT PIPE

--AV-- ACID RESISTANT VENT PIPE -SRHW- SOFT CIRCULATING HOT WATER PIPE

COMPRESSED AIR OUTLET —LPS— LOW PRESSURE STEAM —LPR— LOW PRESSURE RETURN

—HG— HOT GAS —GE— GAS EVACUATION PIPE

——A—— CLINICAL AND LAB AIR PIPE GAS EVACUATION OUTLET CLINICAL AIR OUTLET FIRE DEPT. HOSE VALVE

RECESSED SPRINKLER HEAD

FLOW ALARM PRESSURE/TEMPERATURE TAP PRESSURE GAUGE STATIC PRESSURE SENSOR
THERMOMETER

STRAINER **──** STEAM TRAP **→** BACK FLOW PREVENTER FLOW CONTROL VALVE — STRAINER VALVE DOMESTIC WATER TEMPERING VALVE

THERMOSTAT

O_N NIGHT THERMOSTAT THERMOSTAT W/LOCKABLE COVER HUMIDISTAT

ROOF DRAIN OVERFLOW ROOF DRAIN ^{AD}● AREA DRAIN

FLOW SWITCH DEMOLITION HATCHING

PLUMBING FIXTURE SCHEDULE FIXTURE MANUFACTURER'S **FIXTURE** SUPPLY MATERIAL CW HW NOTES NO DESIGNATION TYPE WASTE VENT MFGR MODEL MISC. WC-1 AMERICAN STANDARD 2467.016 ADA FLOOR MOUNT WATER CLOSET VITREOUS CHINA PRESSURE ASSISTED FLUSH 3/4" 1,2 LAV-1 KOHLER - K-2714 DROP IN LAVATORY VITREOUS CHINA 1-1/4" 1-1/4" DELTA - 591T0250-BB 1/2" 1/2" 2,3,4 MS-1 FIAT MSB2424 FIAT 830-AA 3/4" 3/4" MOP SINK 5 3" 2" EWC-1 1-1/2" EZH20 BOTTLE FILLING STATION 1/2" 1/2" ELKAY LZSTL8WSLK **DUAL HEIGHT WATER COOLER** STAINLESS STEEL 1-1/2" 2,6 1/2" 1/2" S-1 ELKAY-LR3322 DOUBLE BOWL KITCHEN SINK STAINLESS STEEL 1-1/2" 1-1/2" DELTA - B4310LF

NOTES: 1. PROVIDE WITH WHITE OPEN SEAT.

2. MOUNT FIXTURE AT ADA REQUIRED HEIGHT CONFIGURATION.

3 PROVIDE WITH POWERS LF E-480-10 MIXING VALVE OR EQUAL. 3 PROVIDE WITH 24V TRANSFORMER AND BATTERY BACKUP.

5. INCLUDE FIAT 889-CC, 832-AA, AND 833-AA MOP HANGER, HOSE, AND BRACKET.

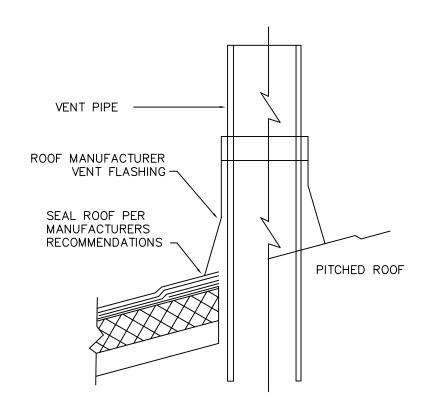
7. PROVIDE WITH INSINKERATOR COMPACT 3/4 HP FOOD WASTE DISPOSER.

6. PROVIDE WITH EZH20 BOTTLE FILLING STATION.

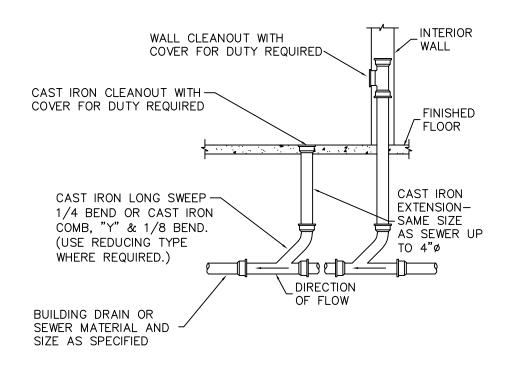
ELECTRIC WATER HEATER - POINT OF USE UNIT MANUFACTURER'S **EWT** LWT REQUIRED TURN ON DESIGNATION LOCATION SERVICE (DEG F) (DEG F) GPM GPM V/PH NOTES

2. RHEEM, AO SMITH, AND STIBEL ELTRON ARE APPROVED ALTERNATIVE MANUFACTURERS. FOR OTHER MANUFACTURERS, FOLLOW SUBMITTAL PROCEDURE OUTLINED IN SPECS.

0.5 0.25 208/1 EEMAX SPEX3208 TOILET 189 HAND WASH NOTES: 1. MOUNT UNIT IN CABINET BELOW SINK OR BELOW SINK WITHOUT A CABINET.



1 PLUMBING VENT DETAIL NO SCALE



INTERIOR CLEANOUT

2 CLEANOUTS DETAIL NOT TO SCALE



of

1,2

700 11TH ST

MARION, IOWA 52302 (319) 377-7604

SUITE 200

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11502 390TH ST STRAWBERRY POINT, IOWA 52076 (563) 933-4712

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ELECTRICAL SPECIFIC NOTES

E001 ELECTRICAL DEVICES DEMOLISHED UNDER ALTERNATE 1.

E002 ELECTRICAL DEVICES DEMOLISHED UNDER

ALTERNATE 2. E003 PROJECTOR, SPEAKERS, AND CAMERA SYSTEM DEVICES SHALL BE SALVAGED AND REINSTALLED PER NEW WORK.

E004 SEE RISER DIAGRAM.

E005 EXISTING PANEL HALL FEEDER RISES TO THE FIRST FLOOR AT ROUGHLY THIS LOCATION. CONTRACTOR TO VERIFY.

GENERAL ELECTRICAL DEMOLITION NOTES:

- UNLESS NOTED OTHERWISE ALL ITEMS IN DARK, DASHED PEN SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. ALL ITEMS IN LIGHT, SOLID PEN SHALL REMAIN.
- BRANCH CIRCUIT WIRING AND CONDUIT MAY BE REUSED IF POSSIBLE. ANY CONDUITS REUSED SHALL BE PROPERLY SECURED TO THE STRUCTURE. PROVIDE NEW TYPE-WRITTEN PANEL DIRECTORIES TO REFLECT CHANGES DUE TO DEMOLITION.
- COORDINATE ANY SERVICE OUTAGES AFFECTING AREAS OUTSIDE THE REMODEL AREA WITH OWNER. MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING SERVING AREAS OUTSIDE THE REMODEL AREA. IF SPECIFIC ITEMS/DEVICES ARE TAKEN OUT OF SERVICE TEMPORARILY TO COMPLETE NEW WORK, RETURN TO SERVICE AS SOON AS POSSIBLE.
- WHERE OPENINGS AND WIRING ARE ABANDONED, REMOVE WIRING BACK TO NEAREST JUNCTION BOX.
- FOR FLUSH DEVICES REMOVED FROM REMAINING WALLS, COVER OPENING WITH NEW COVER PLATE.
- FIRE-STOP ALL REMAINING HOLES FROM SERVICES REMOVED TO MAINTAIN FIRE RATING.

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

3-14-2023 JEFFREY R. REINHART Iowa Registration Number: 13499 13499 My license renewal date is December 31, 2023. Pages or sheets covered by this seal: E001, E101, E201, E301, E401

DEMOLITION KEY EXISTING TO REMAIN ____

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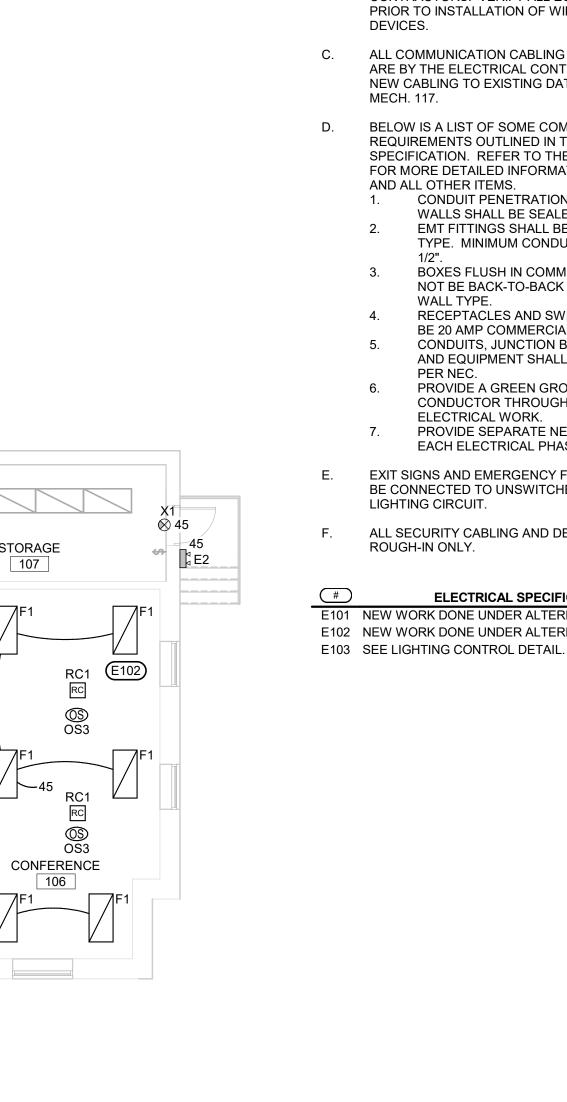
ELECTRICAL DEMOLITION

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RAPID CITY, SD - SIOUX FALLS, SD - CASPER, WY - CEDAR RAPIDS, IA - BISMARCK, ND LIGHTING PLAN



COUNCIL

OS OS3

F2 E1
TOILET

OS3

ALL CIRCUITS SHALL BE FED FROM PANEL HALL UNLESS SHOWN OTHERWISE.

RC1

GENERAL ELECTRICAL NOTES:

- A. COORDINATE DEVICE LOCATIONS/HEIGHTS WITH ARCHITECTURAL ELEVATIONS/DETAILS PRIOR TO ROUGH-IN.
- B. COORDINATE WORK WITH THE HVAC CONTRACTOR, AND ANY OTHER ASSOCIATED CONTRACTORS. VERIFY ALL EQUIPMENT LOADS PRIOR TO INSTALLATION OF WIRING AND DEVICES.
- C. ALL COMMUNICATION CABLING AND DEVICES ARE BY THE ELECTRICAL CONTRACTOR. PULL NEW CABLING TO EXISTING DATA RACK IN MECH. 117.
- BELOW IS A LIST OF SOME COMMON REQUIREMENTS OUTLINED IN THE SPECIFICATION. REFER TO THE SPECIFICATION FOR MORE DETAILED INFORMATION FOR THESE AND ALL OTHER ITEMS. CONDUIT PENETRATIONS THROUGH
- WALLS SHALL BE SEALED. EMT FITTINGS SHALL BE SET SCREW TYPE. MINIMUM CONDUIT SIZE SHALL BE
- BOXES FLUSH IN COMMON WALL SHALL NOT BE BACK-TO-BACK OR THROUGH-WALL TYPE. RECEPTACLES AND SWITCHES SHALL
- BE 20 AMP COMMERCIAL GRADE. CONDUITS, JUNCTION BOXES, WIRING, AND EQUIPMENT SHALL BE LABELED PER NEC.
- PROVIDE A GREEN GROUND CONDUCTOR THROUGHOUT ALL NEW ELECTRICAL WORK.
- 7. PROVIDE SEPARATE NEUTRAL FOR EACH ELECTRICAL PHASE.
- E. EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT.
- F. ALL SECURITY CABLING AND DEVICES SHALL BE ROUGH-IN ONLY.

ELECTRICAL SPECIFIC NOTES

E101 NEW WORK DONE UNDER ALTERNATE 1. E102 NEW WORK DONE UNDER ALTERNATE 2.

LIGHTING/SWITCHING KEY

X# = LIGHT FIXTURE TYPE PER LIGHT FIXTURE SCHEDULE EM = EMERGENCY LIGHT FIXTURE

NL = NIGHT LIGHT FIXTURE

x = SWITCHING SCHEME

= PANEL CIRCUIT NUMBER ##" = HEIGHT TO CENTER OF FIXTURE OR SWITCH ABOVE FINISHED FLOOR (46" FOR SWITCHES IF NOT SHOWN) NEW WORK KEY

E101 BI22089

BREAKROOM

1 NEW-LIGHTING 1/8" = 1'-0"

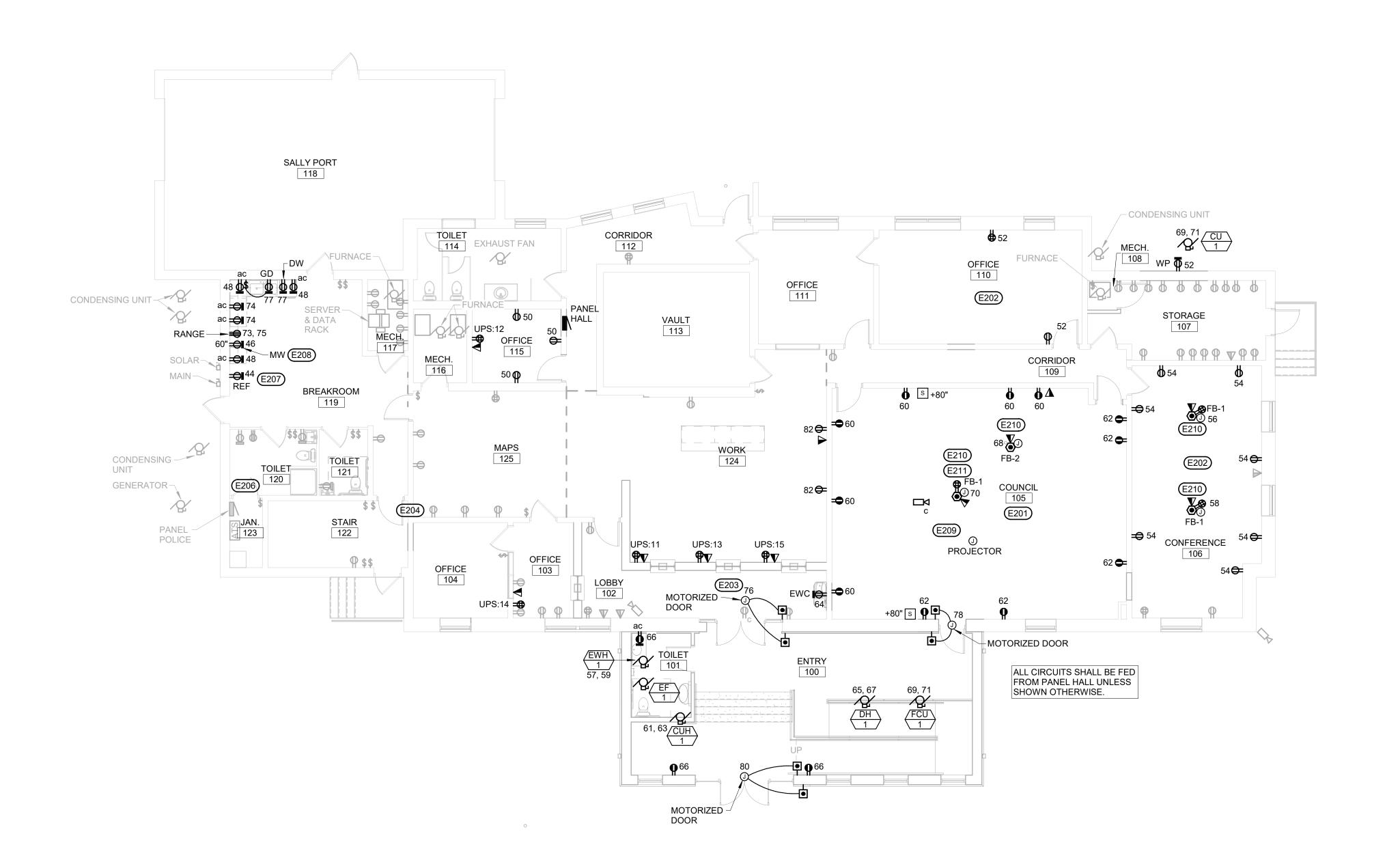
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POWER AND COMMUNICATION

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NEW WORK KEY



NEW-POWER AND COMMUNICATION
1/8" = 1'-0"

GENERAL ELECTRICAL NOTES:

- A. COORDINATE DEVICE LOCATIONS/HEIGHTS WITH ARCHITECTURAL ELEVATIONS/DETAILS PRIOR TO ROUGH-IN.
- B. COORDINATE WORK WITH THE HVAC CONTRACTOR, AND ANY OTHER ASSOCIATED CONTRACTORS. VERIFY ALL EQUIPMENT LOADS PRIOR TO INSTALLATION OF WIRING AND DEVICES.
- C. ALL COMMUNICATION CABLING AND DEVICES ARE BY THE ELECTRICAL CONTRACTOR. PULL NEW CABLING TO EXISTING DATA RACK IN MECH. 117.
- D. BELOW IS A LIST OF SOME COMMON REQUIREMENTS OUTLINED IN THE SPECIFICATION. REFER TO THE SPECIFICATION FOR MORE DETAILED INFORMATION FOR THESE AND ALL OTHER ITEMS.
 - CONDUIT PENETRATIONS THROUGH WALLS SHALL BE SEALED. EMT FITTINGS SHALL BE SET SCREW TYPE. MINIMUM CONDUIT SIZE SHALL BE
 - BOXES FLUSH IN COMMON WALL SHALL NOT BE BACK-TO-BACK OR THROUGH-WALL TYPE.
 - RECEPTACLES AND SWITCHES SHALL BE 20 AMP COMMERCIAL GRADE.
- CONDUITS, JUNCTION BOXES, WIRING, AND EQUIPMENT SHALL BE LABELED PER NEC. PROVIDE A GREEN GROUND
- CONDUCTOR THROUGHOUT ALL NEW ELECTRICAL WORK. PROVIDE SEPARATE NEUTRAL FOR EACH ELECTRICAL PHASE.
- EXIT SIGNS AND EMERGENCY FIXTURES SHALL BE CONNECTED TO UNSWITCHED PORTION OF LIGHTING CIRCUIT.
- ALL SECURITY CABLING AND DEVICES SHALL BE ROUGH-IN ONLY.

ELECTRICAL SPECIFIC NOTES

E201 NEW WORK DONE UNDER ALTERNATE 1.

E202 NEW WORK DONE UNDER ALTERNATE 2. E203 EXISTING UPS PANELBOARD IS LOCATED IN THE

- BASEMENT BELOW HERE. E204 EXISTING PANEL HALL FEEDER RISES TO THE FIRST FLOOR AT ROUGHLY THIS LOCATION. CONTRACTOR TO VERIFY.
- E206 EXISTING MDP IS LOCATED IN THE BASEMENT
- BELOW HERE. E207 REFRIGERATOR: BREAKER IN PANEL SHALL BE GFCI & AFCI (COMBO) TYPE TO ALLOW DEVICE IF TRIPPED
- E208 MICROWAVE: BREAKER IN PANEL SHALL BE GFCI & AFCI (COMBO) TYPE TO ALLOW DEVICE IF TRIPPED TO BE RESET.
- E209 EXTEND CABLING AND REINSTALL EXISTING PROECTOR, SPEAKERS, AND CAMERA SYSTEM DEVICES IN NEW CEILING AS BEFORE.
- E210 FLOOR BOXES SHALL BE ON-GRADE TYPE CONTRACTOR TO VERIFY BOX SITS ON GRADE AND DOES NOT RESIDE ABOVE CRAWL SPACE.
- E211 FLOOR BOX SHALL HAVE POWER AND DATA WHIP THAT INTERCEPTS EXISTING CASEWORKS POWER AND DATA RACEWAY.

#V = QUANTITY OF VOICE JACKS/CABLES (ONE IF NOT SHOWN)

#D = QUANTITY OF DATA JACKS/CABLES
(ONE IF NOT SHOWN) RI = ROUGH-IN ONLY

(NO CABLES/JACKS)
##" = HEIGHT TO CENTER OF OUTLET
(18" UNLESS NOTED OTHERWISE)

TV) TELEVISION OUTLET WITH ONE CABLE/JACK

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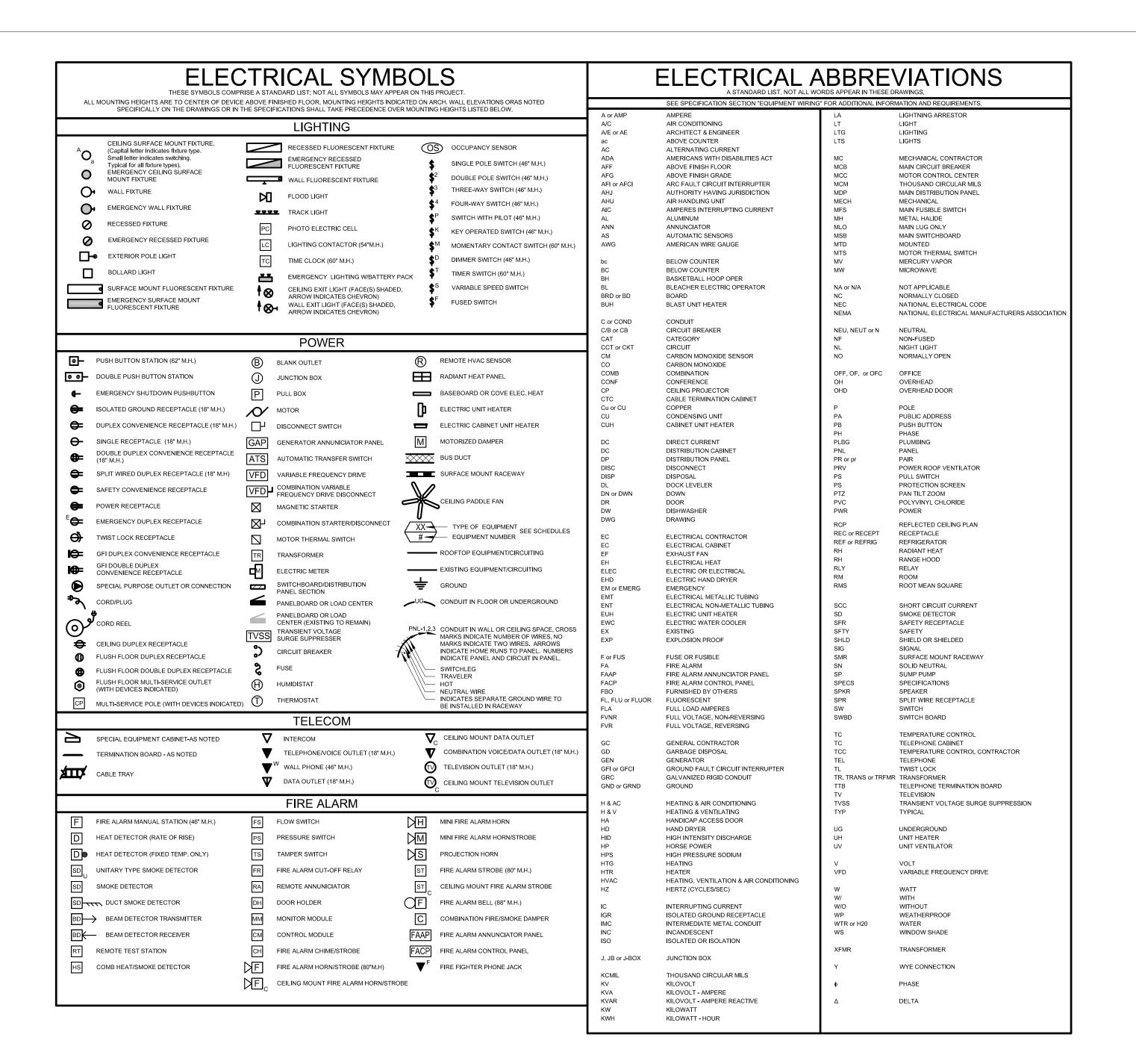
NEW WORK

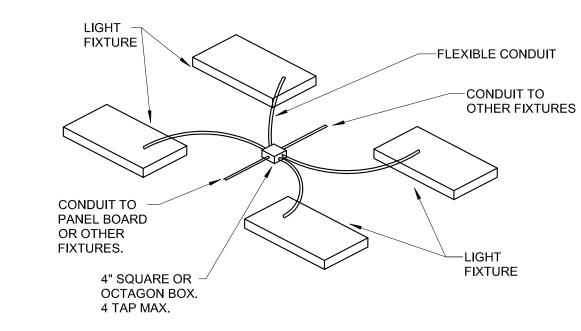
EXISTING TO REMAIN

POINT, IOWA 52076

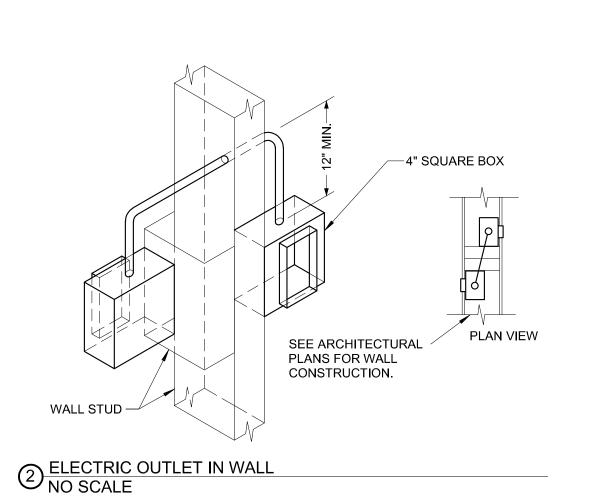
E301

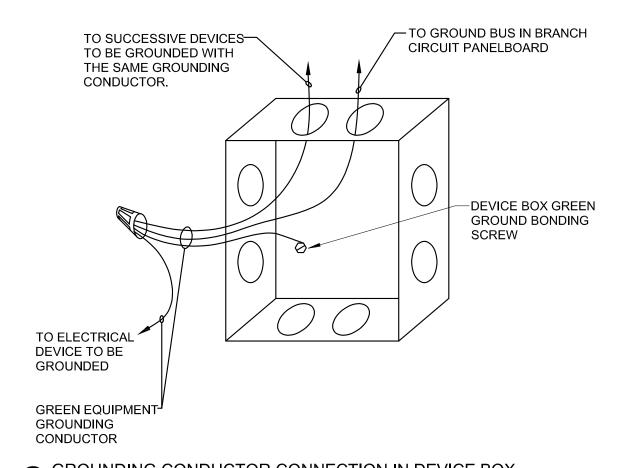
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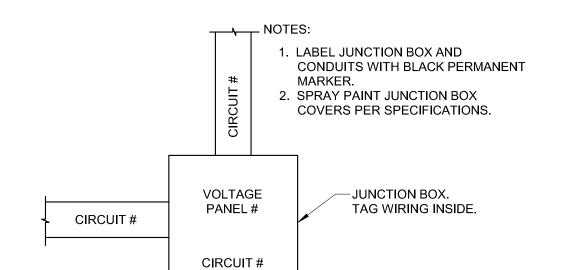




U LIGHTING FIXTURES IN ACCESSIBLE CEILINGS WIRING TAP DETAIL NO SCALE

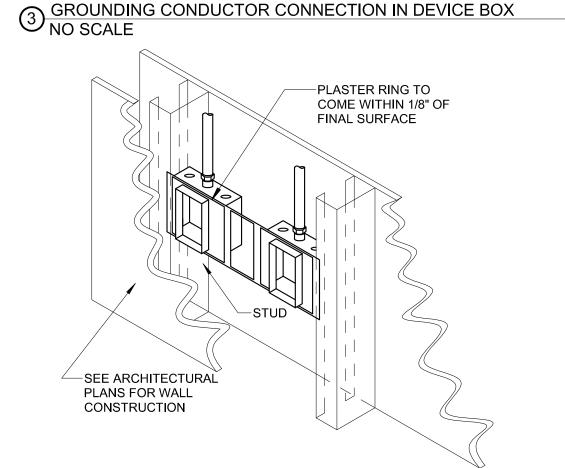






SOLAR ARRAY

NO SCALE



5 BACKBOX MOUNTING DETAIL NO SCALE

ROOF

FIRE DEPARTMENT

PANEL

FIRE

100A

120/208V

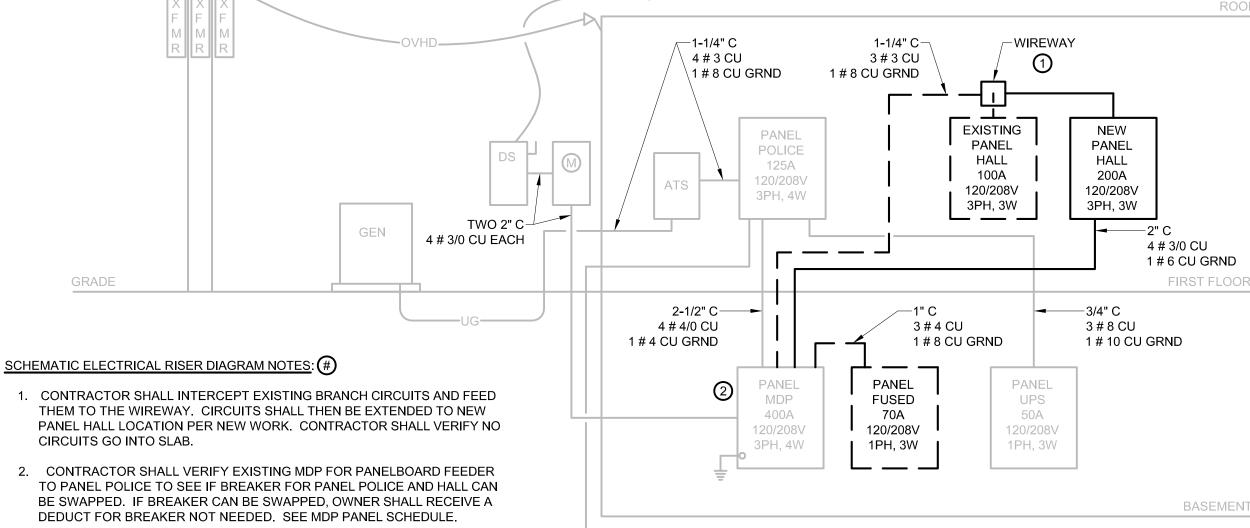
1PH, 3W

RACEWAY / WIRING IDENTIFICATION NO SCALE



-BRANCH CIRCUIT CONDUIT,

TYPICAL.



1. CONTRACTOR SHALL INTERCEPT EXISTING BRANCH CIRCUITS AND FEED THEM TO THE WIREWAY. CIRCUITS SHALL THEN BE EXTENDED TO NEW PANEL HALL LOCATION PER NEW WORK. CONTRACTOR SHALL VERIFY NO CIRCUITS GO INTO SLAB.

2. CONTRACTOR SHALL VERIFY EXISTING MDP FOR PANELBOARD FEEDER TO PANEL POLICE TO SEE IF BREAKER FOR PANEL POLICE AND HALL CAN BE SWAPPED. IF BREAKER CAN BE SWAPPED, OWNER SHALL RECEIVE A

7 SCHEMATIC ELECTRICAL RISER DIAGRAM

6 LIGHTING CONTROL SCHEMATIC NO SCALE

ELECTRICALLY HELD

LIGHTING CONTACTORS IN

TO SQUARE D CLASS 8903

NEMA 1 ENCLOSURE SIMILAR

ELECTRICAL SYMBOLS & DETAILS

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NEW WORK

EXISTING TO REMAIN

EXISTING TO BE REMOVED

PROGRAMMABLE TIME SWITCH "TS1" -2 CHANNEL, SIMILAR TO WATTSTOPPER

RT-200 120V PROGRAM

PER OWNER'S INSTRUCTIONS.

PROVIDE CONTACTORS RATED AT 30 AMPS.

CONFIGURE PER OWNER'S INSTRUCTIONS.

└┤┼┼├ INTERIOR LIGHTING

⊢ INTERIOR LIGHTING

└|├── EXTERIOR LIGHTING

THE INTERIOR LIGHTING

EXTERIOR LIGHTING

LP -I----- SPARE

700 11TH ST KEY

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E401

ВІ	22089	

	PANEL HALL	VOLTS:	120/	208	PH	ASE:	3	WIRE:	4			MAIN CAP.	200 AMPERES
		AIC RATING	<i>'</i>	000						GROU	ND BAR, T	YPEWRITTE	N PANEL DIRECTORY, SINGLE TUB
	(NEW)	MOUNTING:	RECE			R SIZE:			SEI	RISER			MAIN CONNECTION: MLO
СТ		LOAD	WIRE	CIRC	UIT BRE	AKER	NEUTRAL	CIRC	UIT BRE	AKER	WIRE	LOAD	
NO	ΠEM FED	WATTS	SIZE	AMPS	POLES	FRAME		FRAME	POLES	AMPS	SIZE	WATTS	ITEM FED
1	SPARE			20	1	100A	Α	100A	1	20	12	500	EXISTING LTG COUNCIL CHAMBER (SPARE UNDER ALTERNATE 1)
3	EXISTING LTG PUBLIC SEATING (SPARE UNDER ALTERNATE 1)	1,000	12	20	1	100A	В	100A	1	20	12	1,000	EXISTING LTG VAULT & CLERKS
5	EXISTING LTG MECH. & BOOKKEEPING	500	12	20	1	100A	С	100A	1	20	12	1,000	EXISTING LTG MAYOR & STORAGE (SPARE UNDER ALTERNATE 2)
7	EXISTING LTG CORRIDOR 1	500	12	20	1	100A	Α	100A	1	20	12	1,000	EXISTING LTG GENL. OFFICE
9	SPARE			20	1	100A	В	100A	1	20	12	1,000	EXISTING LTG P. RADIO & VESTIBULE
11	EXISTING LTG POLICE CHIEF	500	12	20	1	100A	С	100A	1	20			SPARE
13	SPARE			20	1	100A	Α	100A	1	20	12	1,000	EXISTING LTG CORRIDOR 2
15	EXISTING LTG PIER	500	12	20	1	100A	В	100A	1	20			SPARE
17	EXISTING RECEPT. MEETING NE WALL	720	12	20	1	100A	С	100A	1	20	12	1,000	EXISTING WIREMOLD MACHINES
19	EXISTING WIREMOLD MACHINES	720	12	20	1	100A	Α	100A	1	20	12	1,000	EXISITNG WIREMOLD BOOKEEPING
21	EXISTING	500	12	20	1	100A	В	100A	1	20	12	1,000	EXISTING RECEPT. MAYOR NSW-WALL
23	EXISTING RECEPT. CLKS, OFC, & COR 1	720	12	20	1	100A	С	100A	1	20	12	1,000	EXISTING RECEPT. CLOCK, PS, W-WALL, & COUNCIL
25	EXISTING RECEPT. GEN OFFICE & COUNCIL	720	12	20	1	100A	Α	100A	1	20	12	1,000	EXISTING RECEPT. GEN. OFFICE S-WALL
27	EXISTING RECEPT. P RADIO	720	12	20	1	100A	В	100A	2	40	8	2,912	EXISTING NORTH AC UNIT
29	EXISTING RECEPT. COR 4	720	12	20	1	100A	С				8	2,912	
31	EXISTING EXHAUST FAN 1	100	12	20	1	100A	Α	100A	2	20	12	1,831	EXISTING AC UNIT
33	EXISTING EXIT LTG	100	12	20	1	100A	В				12	1,831	
35	EXISTING ELECTRIC HEAT	1,000	12	20	1	100A	С	100A	2	20	12	1,737	EXISTING AC UNIT
37	EXISTING EXHAUST FAN 2	100	12	20	1	100A	Α				12	1,737	
39	EXISTING	500	12	20	1	100A	В	100A	1	20	12	1,000	EXISTING
11	EXISTING	500	12	20	1	100A	С	100A	1	30	12	1,000	EXISTING
43	ROOMS 102, 103, 112, 114,115, 119, & 125 LTG	790	12	20	1	100A	Α	100A	1	20	12	700	REFRIGERATOR
45	ROOMS 106, 107, 110, 111, & 124 LTG	1,000	12	20	1	100A	В	100A	1	20	12	1,200	MICROWAVE
17	ROOMS 100,101, & 105 LTG	1,000	12	20	1	100A	С	100A	1	20	12	540	ROOM 119 RECEPT.
19	SPARE	,		20	1	100A	A	100A	1	20	12	540	ROOM 115 RECEPT.
51	SPARE			20	1	100A	В	100A	1	20	12	540	ROOM 110 RECEPT.
53	SPARE			20	1	100A	С	100A	1	20	12	1,260	ROOM 106 RECEPT.
55	SPARE			20	1	100A	A	100A	1	20	12	360	FLOORBOX FB-1
57	ELECTRIC WATER HEATER EWH-1	1,500	12	20	2	100A	В	100A	1	20	12	360	FLOORBOX FB-1
59		1,500	12		-	100,	C	100A	1	20	12	720	ROOM 105 RECEPT.
31	CABINET UNIT HEATER CUH-1	1,500	12	20	2	100A	A	100A	1	20	12	720	ROOM 105 RECEPT.
33	ONDINE FORM HER VIEW OF F	1,500	12	20	-	100/1	В	100A	1	20	12	500	EWC
35	DUCT HEATER DH-1	3,000	8	40	2	100A	С	100A	1	20	12	540	ROOM 100-101 RECEPT.
67	DOGINEALENDIFI	3,000	8	40	-	100/1	H A	100A	1	20	12	1,000	FLOORBOX FB-2
57 59	MINISPLIT CU-1	2,060	12	20	2	100A	В	100A	1	20	12	1,000	FLOORBOX FB-2
	IVIIINOF LIT GO-T	2,060	12	20		1004	С	100A	1	20	12	1,000	FLOORBOX FB-2
71 73	*GFCIBREAKER* RANGE	3,000	8	50	2	100A	A	100A	1	20	12	360	ROOM 119 RECEPT.
	GI CIDREAREN MAINGE			50	~	100A		1					MOTORIZED DOOR
75	DICLIMACUED / CARDACE DICROCAL	3,000	8	200		1004	В	100A		20	12	500	
77	DISHWASHER / GABRAGE DISPOSAL	1,000	12	20	1 1	100A	C	100A		20	12	500	MOTORIZED DOOR
79	EXTERIOR LIGHTING	100	12	20	1	100A	A	100A		20	12	500	MOTORIZED DOOR
81 83	SPARE SPARE			20	1	100A 100A	B C	100A 100A	1	20	12	360	ROOM 124 RECEPT. SPARE

	DANEL MDD	VOLTS:	120/	/ 208	PH	ASE:	3	WIRE:	4			MAIN CAP.	400A A	MPERES	
	PANEL MDP	AIC RATING	18,000	0		EXISTING	S WESTING	HOUSE P	ANELB	OARD, T	YPEWRIT	TEN PANEL D	IRECTORY, *NEW* = NEW BREAKE	R & BRANCH CIRCU	JIT
	(EXISTING)	MOUNTING:	SURFA	CE	FEEDE	R SIZE:			SEE	RISER			MAIN CONNECTION:	BACKFED 400	А МСВ
сст		LOAD	WIRE	CIRC	UIT BRE	AKER	NEUTRAL	CIRC	UIT BRE	AKER	WIRE	LOAD			cc
NO	ΠEM FED	WATTS	SIZE	AMPS	POLES	FRAME		FRAME	POLES	AMPS	SIZE	WATTS	ITEM FED		NC
1	EXISTING MAIN CIRCUIT BREAKER		SEE RISER				Α						SPACE		2
3			SEE RISER	400	3	400A	В						SPACE		4
5			SEE RISER				С						SPACE		6
7			SEE RISER				Α						SPACE		8
9	EXISTING POLICE PANEL		SEE RISER	225	3	225A	В						SPACE		10
11			SEE RISER				С						SPACE		12
13			12				Α	100A	1	15	14		EXISTING POLICE	PUMP	14
15	EXISTING AIR HANDLER		12	20	3	100A	В	100A	1	15	14		EXISTING CENTRAL	- PUMP	16
17			12				С	100A	1	15	14		EXISTING WEST F	PUMP	18
19			SEE RISER				Α						SPACE		20
21	*NEW* PANEL HALL		SEE RISER	225	3	225A	В						SPACE		22
23			SEE RISER				С						SPACE		24
25	SPACE						Α						SPACE		26
27	SPACE						В	100A	2	15	14		EXISTING POLICE AIR	HANDLER	28
29	SPACE						С				14				30
25	EXISTING AIR COMPRESSOR		12	20	1	100A	Α	100A	2	70			*REUSED* SPA	RE	26
27	EXISTING BOILER		12	20	1	100A	В								28

	PANEL POLICE	VOLTS:	120/	208	PH/	ASE:	3	WIRE:	4			MAIN CAP.	150 AMPERES			
	PANEL POLICE	AIC RATING	10,	000					EXISTIN	NG GE PA	ANELBOARD, TYPEWRITTEN PANEL DIRECTORY					
	(EXISTING)	MOUNTING:	SURI	FACE	FEEDE				SEE	RISER			MAIN CONNECTION: 150A10KAIC I			
сст		LOAD	WIRE	CIRC	UIT BRE	AKER	NEUTRAL	CIRC	CIRCUIT BREAKER V		WIRE	LOAD		ССТ		
NO	ΠEM FED	WATTS	SIZE	AMPS	POLES	FRAME		FRAME	FRAME POLES AMPS S		SIZE	WATTS	ΠEM FED	NO		
1	EXISTING COMM ROOM W-WAL MID & SOUTH RECEPT.		12	20	2	100A	Α	100A	1	20	12		EXISTING (A) SECURITY DOOR (B) GARAGE DOORS	2		
3			12				В	100A	2	30	10		EXISTING DRYER	4		
5	*REUSED* SPARE			20	1	100A	С				10			6		
7	EXISTING CHIEF OFFICE SOUTH RECEPT.		12	20	1	100A	Α	100A	1	20	12		EXISTING GARAGE SPARE	8		
9	EXISTING COMM ROOM LTG		12	20	1	100A	В	100A	1	20	12		EXISTING GARAGE WEST EXTERIOR LTG	10		
11	EXISTING CHIEFS OFFICE & STAIRWAY LTG		12	20	1	100A	С	100A	1	20	12		EXISTING NORTHEAST RECEPT.	12		
13	EXISTING COMM ROOM EAST RECEPT.		12	20	1	100A	Α	100A	1	20	12		EXISTING GARAGE SPARE	14		
15	*REUSED* SPARE			20	1	100A	В	100A	1	20	12		EXISTING SQUAD ROOM LTG & RECEPT.	16		
17	EXISTING COMM ROOM SOUTH WALL RECEPT.		12	20	1	100A	С	100A	1	20	12		EXISTING NEW BATHROOMS	18		
19	EXISTING		12	20	1	100A	Α	100A	1	20	12		EXISTING	20		
21	EXISTING		12	20	1	100A	В	100A	2	50	8		EXISTING PANEL UPS	22		
23	EXISTING		12	20	1	100A	С				8			24		
25	EXISTING GENERATOR TANK HEATER		12	20	1	100A	Α	100A	1	20	12		EXISTING	26		
27	EXISTING SURGE PROTECTOR		10	30	2	100A	В	100A	2	100	3		EXISTING FIRE DEPARTMENT PANEL	28		
29			10				С				3			30		

	DANEL LIDO	VOLTS:	120/	208	PH/	ASE:	2	WIRE:	3			MAIN CAP.	400	AMPE	RES		
	PANEL UPS	AIC RATING	22,	000		E	XISTING GE	PANELB	OARD, 1	TYPEWR	ITTEN PA	ANEL DIRECT	ECTORY, *NEW* = NEW BREAKER & BRANCH CIRCUIT				
	(EXISTING)	MOUNTING:	SUR	FACE	FEEDE	R SIZE:			SEE	RISER			MAIN CO	ONNECTION:	300A 35KAIC M	СВ	
ССТ		LOAD	WIRE	CIRC	UIT BRE	AKER	NEUTRAL	CIRC	UIT BRE	AKER	WIRE	LOAD				ССТ	
NO	ΠEM FED	WATTS	SIZE	AMPS	POLES	FRAME		FRAME	POLES	AMPS	SIZE	WATTS		ITEM FED		NO	
1	EXISTING DESK 1 RECEPT.	360	12	20	1	100A	L1	100A	1	20	12	180	EXIS	TING DOWNSTAIRS RE	CEPT.	2	
3	EXISTING DESK 2 RECEPT.	360	12	20	1	100A	L2	100A	1	20	12	180	EXIS	TING DOWNSTAIRS RE	CEPT.	4	
5	EXISTING DESK 3 RECEPT	360	12	20	1	100A	L1	100A	1	20	12	180	EXIS	TING DOWNSTAIRS RE	СЕРТ.	6	
7	EXISTING DESK 4 RECEPT.	360	12	20	1	100A	L2	100A	1	20	12	180	EXIS	TING DOWNSTAIRS RE	CEPT.	8	
9	EXISTING DESK 5 & 6 RECEPT.	360	12	20	1	100A	L1	100A	1	20	12	180	EXIS	TING DOWNSTAIRS RE	CEPT.	10	
11	*NEW* WORK 124 DESK RECEPT.	360	12	20	1	100A	L2	100A	1	20	12	360	*N	EW* OFFICE 115 RECE	PT.	12	
13	*NEW* WORK 124 DESK RECEPT.	360	12	20	1	100A	L1	100A	1	20	12	360	*N	EW* OFFICE 103 RECE	PT.	14	
15	*NEW* WORK 124 DESK RECEPT.	360	12	20	1	100A	L2	100A	1	20				*NEW* SPARE		16	

MARK	DESCRIPTION	MANUFACTURER AND SERIES		LAMPING	MOUNTING	VOLT.	WATT.	NOTES
			QTY.	TYPE				
C1	4" ROUND RECESSED DOWNLIGHT	SIGNIFY 4RN P4RDL15840CLZ10U	N/A	LED 4000K	RECESSED	UNV.	20	1
	LED, DAMP LOCATION	ACUITY, COOPER, HUBBELL		1500 LUMENS				
C2	4" ROUND RECESSED DOWNLIGHT	SIGNIFY 4RN P4RDL10835CLZ10U	N/A	LED 3500K	RECESSED	UNV.	15	1
	LED	ACUITY, COOPER, HUBBELL		1000 LUMENS				
C3	4" ROUND RECESSED DOWNLIGHT	SIGNIFY 4RN P4RDL20835CLZ10U	N/A	LED 3500K	RECESSED	UNV.	25	1
	LED	ACUITY, COOPER, HUBBELL		2000 LUMENS				
E1	EMERGENCY LIGHT	SIGNIFY CLUX2NW	N/A	LED	SURFACE	UNV.	10	2
	LED, BATTERY BACK-UP, SELF-DIAGNOSTICS	ACUITY, COOPER, HUBBELL		INCLUDED				
E2	EMERGENCY LIGHT, WET LOCATION, REMOTE	SIFNIFY CLR3WG	N/A	LED	SURFACE	UNV.	5	2
	LED, BATTERY BACK-UP, SELF-DIAGNOSTICS	ACUITY, COOPER, HUBBELL		INCLUDED				
F1	2'X4' FLAT PANEL	SIGNIFY 2FPZ48L835-4-DS-UNV-DIM	N/A	LED 3500K	RECESSED	UNV.	40	1
	LED	ACUITY, COOPER, HUBBELL		4800 LUMENS				
F2	2'X4' FLAT PANEL	SIGNIFY 2FPZ38L835-4-DS-UNV-DIM	N/A	LED 3500K	RECESSED	UNV.	33	1
	LED	ACUITY, COOPER, HUBBELL		3800 LUMENS				
F3	2'X2' FLAT PANEL	SIGNIFY 2FPZ38L835-2-DS-UNV-DIM	N/A	LED 3500K	RECESSED	UNV.	36	1
	LED	ACUITY, COOPER, HUBBELL		3800 LUMENS				
F4	4' STRIP FIXTURE	SIGNIFY FSS440L835-UNV-DIM	N/A	LED 3500K	SUSPENDED	UNV.	35	1,3
	LED	ACUITY, COOPER, HUBBELL		4000 LUMENS				
L8	8' LINEAR, STEEL HOUSING	LUMAX N3UDLED10LF35K92-9FAF-60251	N/A	LED 3500K	SUSPENDED	UNV.	100	1,3
	LED, LINEAR, PENDANT	ALCON, PRUDENTIAL, CURRENT		8000 LUMENS				
W1	24" VANITY LIGHT	WAC WS-77624-3500K-XX	N/A	LED 3500K	SURFACE	120V	25	1
	LED	ACUITY, COOPER, HUBBELL, SIGNIFY		1700 LUMENS				
X1	EXIT SIGN	SIGNIFY CLXNRW	N/A	LED	WALL	UNV.	5	2
	LED, BATTERY BACK-UP, SELF-DIAGNOSTICS	ACUITY, COOPER, HUBBELL		INCLUDED				
X2	EXIT SIGN, REMOTE CAPABILITY	SIGNIFY CLXNRW4R	N/A	LED	WALL	UNV.	5	2
	LED. BATTERY BACK-UP, SELF-DIAGNOSTICS	ACUITY, COOPER, HUBBELL		INCLUDED				

NERAL	NOTES:
A.	LED DRIVERS TO BE MULTIVOLT, 0-10V DI

- DIMMABLE, WITH 5 YEAR WARRANTY. B. LED DRIVERS TO BE PHILIPS XITANIUM OR EQUAL SYLVANIE OR ACUITY.
- 1. COORDINATE STANDARD FINISH AT TIME OF SHOP DRAWINGS.
- 2. PROVIDE EMERGENCY BATTERY PACK AND SELF DIAGNOSTICS.

BUT SHALL NOT DELETE ITEMS OR CHANGE THE SENSOR TYPES.

1. COORDINATE STANDARD COLOR AT TIME OF SHOP DRAWINGS.

2. REQUIRES NEUTRAL WIRE AT SWITCHING LOCATION.

3. COORDINATE CEILING TYPE WITH HANGER TYPE.

MARK	DESCRIPTION	MANUFACTURER/	SIZE		
	WALL BOY OVER THE BUTTON OF THE BUTTON	SERIES		NOTES	
B5	WALL BOX SWITCH, 5-BUTTONS, IR SENSOR	LEGRAND LMSW-105	N/A	1	
	LOW VOLTAGE, DIMMING	ILC, COOPER, LEVITON, HUBBELL			
OS1	DUAL TECHNOLOGY OCCUPANCY SENSOR	LEGRAND DSW-301	400 SQFT	1,2	
	LINE VOLTAGE, WALL BOX, ON/OFF	ILC, COOPER, LEVITON, HUBBELL			
OS2	DUAL TECHNOLOGY OCCUPANCY SENSOR	LEGRAND DW-311	400 SQFT	1,2	
	LINE VOLTAGE, WALL BOX, 0-10V	ILC, COOPER, LEVITON, HUBBELL			
OS3	DUAL TECHNOLOGY OCCUPANCY SENSOR	LEGRAND LMDC-100	1,296 SQFT	1	
	LOW VOLTAGE, CEILING MOUNTED	ILC, COOPER, LEVITON, HUBBELL			
RC1	ROOM CONTROLLER	LEGRAND LMRC-211	N/A	1,2	
	LOW VOLTAGE, SINGLE ZONE, DIMMING	ILC, COOPER, LEVITON, HUBBELL			
TS1	ASTRONOMICAL TIME SWITCH	LEGRAND RT-200	N/A	2	
	LINE VOLTAGE, WALL BOX	ILC, COOPER, LEVITON, HUBBELL			
ENERA	L NOTES:				
Α.	SET AND PROGRAM ALL SENSORS AS FOLLOWS:				
	a. SET SENSITIVITY TO MATCH ROOM SIZE AND SHA	NPE			
	b. SET TIME DELAY TO MAXIMUM.				
	c. PROGRAM AND FINE TUNE EACH SENSOR, AND I	NSTRUCT OWNER ON ADJUSTMENTS.			
	d. MANUFACTURER SHALL ADVISE EXACT LOCATION	DNS IN ROOMS AND PROVIDE WIRING DIAGRAMS.			
	e. PROVIDE 10' SERVICE LOOP FOR ALL SENSORS,	FOR FUTURE RELOCATION.			
	f. CEILING MOUNT ULTRASONIC SENSORS SHALL B	E MOUNTED A MINIMUM OF 4 FEET FROM SUPPLY AIR DIFFUSERS.			
В.	CABLING AND LOW VOLTAGE DEVICES SHALL BE F	PLENUM RATED.			
٥.		OF SENSORS SHOWN. MANUFACTURERS MAY NEED TO ADD ITEM			

D. TESTING, BY FACTORY APPROVED PERSONNEL SHALL BE DONE FOR EACH SENSOR AND ADJUSTED FOR THE REQUIREMENTS FOR EACH ROOM.

EQUIP	EQUIPMENT	VOLTS/	HP OR			OCPD	EQUIPMENT	DISCONNECT	
NO.	DESCRIPTION	PHASE	WATTS	FLA	MCA	SIZE	FEEDER	AT EQUIP.	NOTES
CU-1	OUTDOOR A/C UNIT	208/1			19.8	20A	2#10 CU, 1#10 CU GRND	30/2, NF, WP	2,3
CUH-1	CABINET UNIT HEATER	208/1	3 KW		14.5	20A	2#12 CU, 1#12 CU GRND	30/2, NF	
DH-1	DUCT HEATER	208/1	6 KW		29.0	40A	2#8, 1#10 CU GRND	60/2, NF	
EF-1	EXHAUSTFAN	120/1				20A	2#12 CU, 1#12 CU GRND	1P SWITCH	1
EWH-1	ELECTRIC WATER HEATER	208/1	3 KW		14.5	20A	2#12 CU, 1#12 CU GRND	30/2, NF	
FCU-1	INSIDE A/C UNIT	208/1				20A	2#12 CU, 1#12 CU GRND	30/2, NF	3

NF = NON-FUSED SSY = BUSSMAN FUSED SWITCH OCPD = OVERCURRENT PROTECTIVE DEVICE 4X = NEMA 4X TYPE
FLA = FULL LOAD AMPS MCA = MINIMUM CIRCUIT AMPS 1P SWITCH = 1 POLE TOGGLE SWITCH FE = FURNISHED WITH EQUIPMENT
GENERAL NOTES:
A. VERIFY ALL BREAKERS, FEEDER, AND DISCONNECT SIZES WITH MECHNICAL EQUIPMENT.
B. VERIFY EQUIPMENT CONNECTION AND LOCATION PRIOR TO INSTALLATION.
NOTES:
1. CONTROL WITH LIGHTING IN THE AREA.
2. INSTALL DISCONNECT SWITCH ON GALVANIZED STEEL UNI-STRUT ADJACENT TO CONDENSING UNIT TO MAINTAIN WORKING CLEARANCE.
3. FEED INDOOR UNIT FROM OUTDOOR UNIT WITH 3 #12, 1 #12 GRND POWER WIRES IN CONDUIT, AND 6 #12 CONTROL WIRES IN CONDUIT. VERIFY WIRING.

2. EXTEND COMMUNICATIONS CONDUIT TO BELOW FLOOR AND SPARE CONDUITS TO ABOVE CEILING IN THE ROOM.

FLOOR BOX SCHEDULE								
UNIT				DUIT QUANTIT	Y-SIZE			
NO	DESCRIPTION	MANUFACTURER AND SERIES	POWER	COMM.	HDMI	COVER ASSEMBLY	NOTES	
FB-1	RECESSED FLOOR BOX	LEGRAND RFB4-CI-NA	1 - 3/4"	1 - 1 1/4"	1 - 1 1/4"	FPCTCXX	1, 2	
	FOR CONCRETE FLOOR, 4 COMPARTMENT	HUBBELL, ABB	TO CEILING	TO CEILING	TO CEILING			
FB-2	RECESSED FLOOR BOX	LEGRAND RFB4-CI-NA	1 - 3/4"	1 - 1 1/4"	1 - 1 1/4"	FPFFTCXX	1, 2	
	FOR CONCRETE FLOOR, 4 COMPARTMENT	HUBBELL, ABB	TO CEILING	TO CEILING	TO CEILING			
NOTES:								
	GENERAL ITEMS:							
	A. PROVIDE ALL NECESSARY DEVICE PLATES, DIVIDERS, AND ACCESSORIES FOR COMPLETE SYSTEM.							
	B. COORDINATE EXACT LOCATION WITH OWNER.							
	C. POWER MAY BE DAISY CHAINED BETWEEN ADJACENT BOXES BUT COMMUNICATIONS CONDUITS MUST BE SEPARATE HOMERUN FOR EACH BOX.							
	D. COORDINATE FINISH AT TIME OF SHOP DRA	AWINGS.						
1.	SEE FLOOR PLAN FOR QUANTITY OF OUTLETS).						
			والمراس المسالم المسالم					