

600 LABAREE ST. | WATERTOWN, WI 53098

[illegible]

GENERAL NOTES

1. CONSTRUCTION IS TO BE IN COMPLIANCE WITH ALL GOVERNING CODES, ORDINANCES & STANDARDS. THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, & SUPERVISING ALL SAFETY PRECAUTIONS & PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF THIS PROJECT.
2. ARCHITECT/DESIGNER SHALL NOT BE RESPONSIBLE FOR ANY COST, SCHEDULE OR CONSTRUCTION ISSUES ARISING DUE GC/OWNERS FAILURE TO DISTRIBUTE ALL DOCS. SUBCONTRACTORS & SUPPLIERS SHOULD ENDEAVOR TO REVIEW A COMPLETE SET OF DOCS BEFORE BIDDING, FABRICATING & INSTALL.
3. GC, SUBCONTRACTORS, MATERIAL SUPPLIERS, OWNER, ETC. MUST NOTIFY ARCHITECT OF ANY ERRORS, OMISSIONS, OR DEFECTS IN THE CONSTRUCTION DOCUMENTS PRIOR TO BIDDING, FABRICATING OR INSTALLING WORK.
4. SITE DIMENSIONS ARE TO BE FIELD VERIFIED AND ADJUSTED ACCORDINGLY. THE ARCHITECT/DESIGNER SHALL BE NOTIFIED OF ANY VARIANCES BEFORE CONTRACTOR BEGINS OR PROCEEDS WORK.
5. MECH, ELEC, PLUMB & FIRE PROTECTION ARE TO BE DESIGN BUILT, COMPLYING WITH ALL GOVERNING CODES, ORDINANCES & STANDARDS, WHICH WILL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR; THE ARCHITECT ASSUMES NO LIABILITY.
6. ALL MECH, ELEC, PLUMB & FIRE PROTECTION SYSTEMS/EQUIP. SHALL BE MAINTAINED ACCORDING TO MANUFACTURER'S STANDARDS. BLDG. OWNER SHALL ASSUME FULL RESPONSIBILITY FOR MAINTENANCE/OPERATION UPON OCCUPANCY.
7. THE INSTALLATION AND EXECUTION OF ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S STANDARDS AND SPECIFICATIONS. ALL MEANS & METHODS OF CONSTRUCTION TO BE THE SOLE RESPONSIBILITY OF THE GC.
8. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN OCCUPANCIES AND LOCATIONS AS REQUIRED BY THE INTERNATIONAL FIRE CODE. INSTALLATION LOCATIONS SHALL HAVE A MAXIMUM TRAVEL DISTANCE OF 75' TO ANY EXTINGUISHER. EXTINGUISHERS SHALL BE LOCATED IN CONSPICUOUS LOCATIONS WHERE THEY WILL BE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE FOR USE, TYPICALLY ALONG PATHS OF TRAVEL. EXTINGUISHERS SHALL NOT BE OBSTRUCTED FROM VIEW, IF VISUAL OBSTRUCTION CAN NOT BE AVOIDED ANOTHER MEANS SHALL BE PROVIDED TO INDICATE THE EXTINGUISHER LOCATIONS. EXTINGUISHERS NOT EXCEEDING 40" SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAN 5'-0" ABOVE THE FLOOR, EXTINGUISHERS EXCEEDING 40" SHALL BE INSTALLED SO THAT ITS TOP IS NOT MORE THAN 3'-6" ABOVE THE FLOOR. THE CLEARANCE BETWEEN THE FLOOR AND BOTTOM OF EXTINGUISHER TO UNITS SHALL NOT BE LESS THAN 4". VERIFY EXTINGUISHER LOCATIONS W/ LOCAL FIRE DEPT. & OWNER PRIOR TO INSTALLATION.
9. ALL CONCRETE FLAT WORK MUST BE WET CURED PER ACI REQUIREMENTS AND/OR CURED USING A CURING COMPOUND. REFER TO STRUCTURAL NOTES FOR CURING COMPOUND SPECS. CONTRACTOR IS RESPONSIBLE FOR APPLYING CURING COMPOUNDS PER THE MANUFACTURER'S REQUIREMENTS.

[illegible]

Drawn by	Checked by
JAJ	DMR

Sheet No. _____

T1.0

RIVERSIDE PARK RESTROOM - NEW CONSTRUCTION

812 LABAREE ST. | WATERTOWN, WI 53098

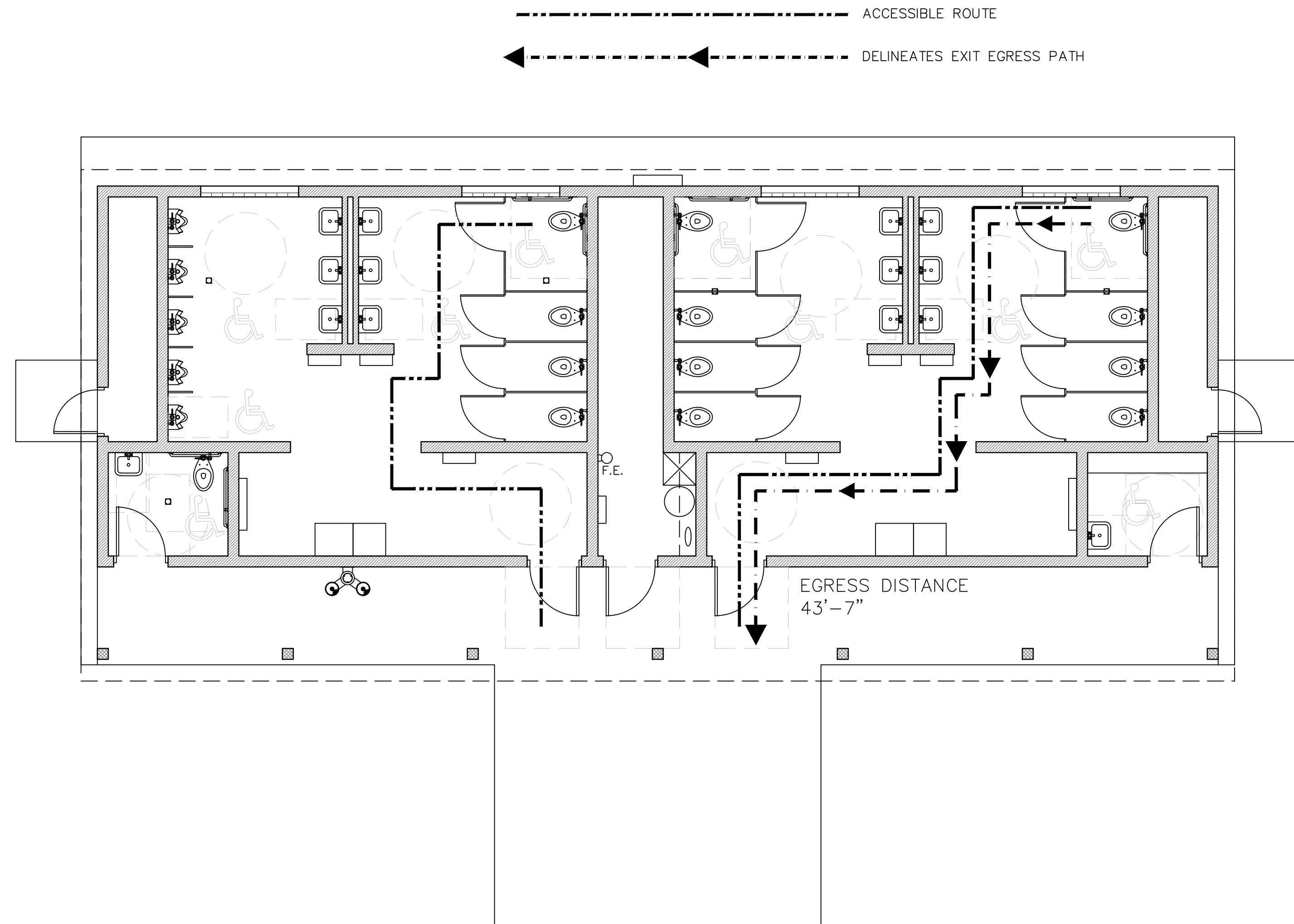
OCCUPANT LOAD PER TABLE 1004.1.2				
TOTAL OCCUPANT LOAD = 183 OCCUPANTS				
OCCUPANCY	SF	FLOOR AREA	CALC. OCC.	ASSIGNED OCC.
UTILITY	1,602 SF	500/GROSS	3	45

EGRESS REQUIREMENTS			
EGRESS WIDTH PER 1005.3			
# OF OCCUPANTS	EGRESS WIDTH FACTOR	EGRESS WIDTH REQUIRED	EGRESS WIDTH PROVIDED
45	.2 INCHES PER OCCUPANT	9"	34"

NO. OF EXITS REQUIRED PER SECTION 1006	= 1
NO. OF EXITS PROVIDED	= 1

MAXIMUM EXIT TRAVEL DISTANCE PER TABLE 1017.2 = 200' (w/out SPRINKLER)

FIRE-RESISTANCE RATING SUMMARY	
REFER TO IBC CHAPTER 6	
CONSTRUCTION TYPE V-B	
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS	
EXTERIOR	0
INTERIOR	0
NONBEARING WALLS	0
FLOOR CONSTRUCTION	
ROOF CONSTRUCTION	0



FIRST FLOOR CODE PLAN
SCALE: N.T.S.

1



Project Info. — 22005 —

Riverside Park Restrooms

New Construction

600 Labaree St
Watertown, WI

CODE SHEET

Drawn by	Checked by
JAJ	DMR

[illegible]

Sheet No. _____

T1.1

2023-06-30 Bid & Permit Set

1. INSTALL PERIMETER SILT FENCE AND INLET PROTECTION.
2. STRIP AND STOCKPILE TOPSOIL, INSTALL SILT FENCE AROUND PERIMETER OF STOCKPILE.
3. CONDUCT ROUGH GRADING EFFORTS AND INSTALL CHECK DAMS WITHIN DRAINAGE DITCHES AS NEEDED.
4. INSTALL UTILITY PIPING AND STRUCTURES, IMMEDIATELY INSTALL INLET PROTECTION.
5. COMPLETE INSTALLATION OF GRAVEL BASE COURSES, PLACEMENT OF CURBS, PAVEMENTS, WALKS, ETC.
6. FINAL GRADING BY CITY.

DEMOLITION NOTES

- ## LEGEND

CIVIL SHEET INDEX

-



Project Info. — 22005 —
**Riverside Park
Restrooms**
New Construction
600 Labaree St
Watertown, WI

Sheet Title

DEMOLITION PLAN

[illegible]

Sheet No.

C1.0

2023-06-30 Bid & Permit Set

GENERAL NOTES

1. WATER AND SANITARY SEWER WERE INSTALLED BY THE CITY AND STUBBED TO THE BACK OF THE BUILDING.
2. ROUGH GRADE IN THE CONTRACT.
FINISH GRADE, SODDING, LANDSCAPING, AND EROSION MATTING NOT IN CONTRACT. CITY TO COMPLETE THE WORK.
3. OLD BUILDING ELECTRICAL IS DISCONNECTED.
4. ELECTRICAL CONTRACTOR TO COORDINATE OUTDOOR PANEL, METER, ETC.
5. BUILDING AND CONCRETE SIDEWALK IN CONTRACT.

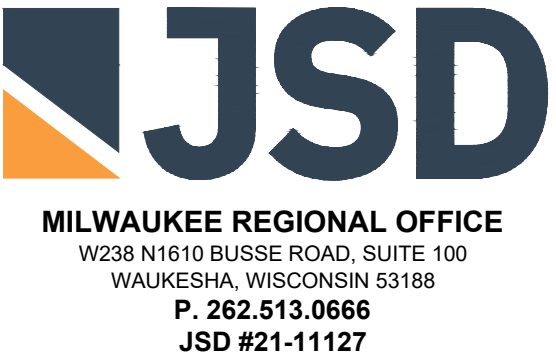
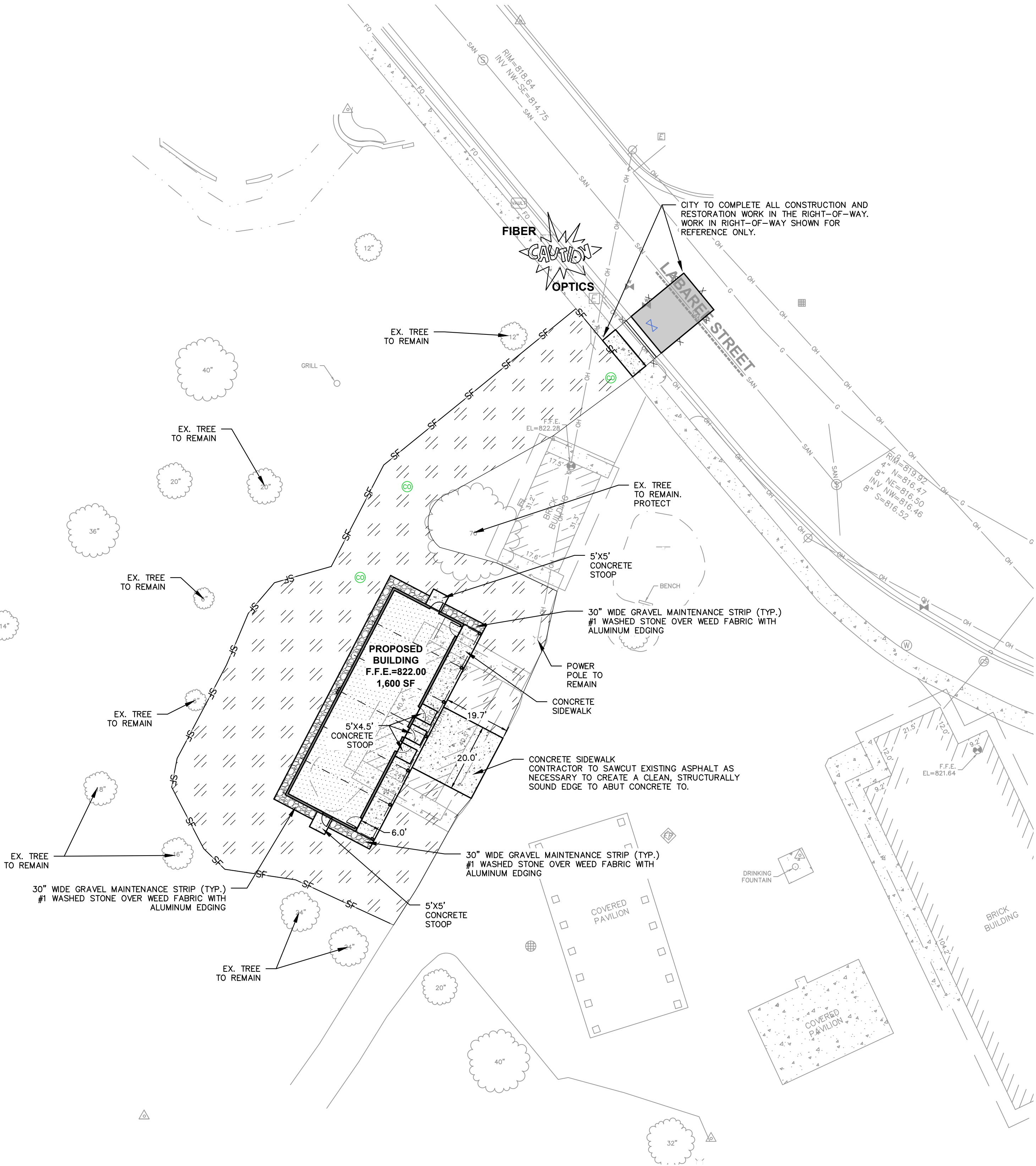
PAVING NOTES

1. GENERAL
 - 1.1. ALL PAVING SHALL CONFORM TO "STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION, APPLICABLE CITY OF WATERTOWN ORDINANCES.
 - 1.2. SURFACE PREPARATION — NOTIFY ENGINEER/OWNER OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
2. CONCRETE PAVING SPECIFICATIONS
 - 2.1. CONCRETE PAVING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.
 - 2.2. CONTRACTOR SHALL SAWCUT ASPHALT AND REMOVE AS NECESSARY TO CREATE A CLEAN, STRUCTURALLY SOUND EDGE TO ABUT CONCRETE TO.
 - 2.3. CONCRETE PAVEMENT SHALL BE REINFORCED WITH NOVOMESH 950 (OR EQUAL) FIBER REINFORCEMENT AT A RATE OF 5 LBS/CUBIC YARD.
 - 2.4. CURING COMPOUNDS SHALL CONFORM TO SECTION 415 OF THE STATE HIGHWAY SPECIFICATIONS.
 - 2.5. CONTRACTOR SHALL PROVIDE CONTROL JOINTS AND CONSTRUCTION JOINTS OF ONE-QUARTER CONCRETE THICKNESS AT AN EQUAL RATIO OF LENGTH TO WIDTH WHEREVER POSSIBLE WITH A MAXIMUM LENGTH BETWEEN JOINTS OF 8' ON CENTER.
 - 2.6. CONTRACTOR SHALL PROVIDE EXPANSION JOINTS IN SIDEWALKS AT A MAXIMUM 24' ON CENTER.
 - 2.7. EXTERIOR CONCRETE SURFACES SHALL BE BROOM FINISHED.
 - 2.8. ALL CONCRETE SURFACES TO BE SEALED WITH TYPE TK-26UV CONCRETE SEALANT.

SITE INFORMATION BLOCK	
SITE ADDRESS	812 LABAREE ST (ZONING SR-4)
PROPERTY ACREAGE	11.38 ACRES
DISTURBANCE AREA	0.23 ACRES
NUMBER OF BUILDING STORIES	
TOTAL BUILDING SQUARE FOOTAGE	1,600 SF

LEGEND

	PROPERTY LINE
	EASEMENT LINE
	RIGHT OF WAY LINE
	STANDARD CURB AND GUTTER BY CITY
	LIGHT DUTY ASPHALT PAVEMENT BY CITY
	CONCRETE SIDEWALK 5" CONCRETE 6" CRUSHED AGGREGATE BASE COURSE
	30" WIDE GRAVEL MAINTENANCE STRIP
	SAWCUT PAVEMENT BY CITY
	SANITARY CLEANOUT
	WATER VALVE
	CONTRACTOR TO ROUGH GRADE AREA. FINISH GRADE, SEEDING, AND EROSION MATTING BY CITY.



THRIVE
ARCHITECTS

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction
600 Labaree St
Watertown, WI

Sheet Title

SITE LAYOUT PLAN

Drawn by	Checked by
YT	KCB

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.

C2.0

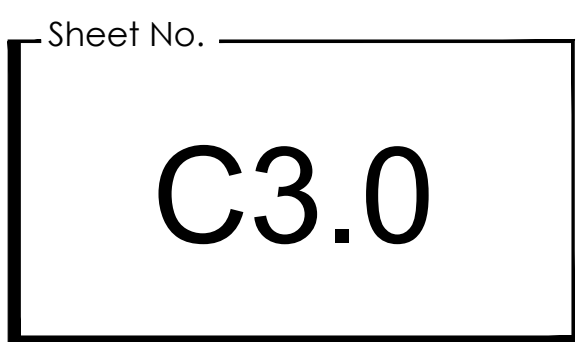
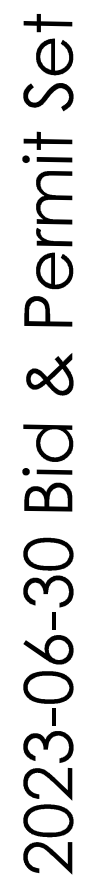
2023-06-30 Bid & Permit Set

1. ALL WORK IN THE ROW AND/OR PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN WISCONSIN AND MUNICIPAL REQUIREMENTS.
2. EXISTING GRADE SPT ELEVATIONS SHOWN FOR INFORMATIONAL PURPOSES. DURING CONSTRUCTION MATCH EXISTING GRADES AT CONSTRUCTION LIMITS.
3. NO SITE GRADING OUTSIDE OR DOWNSLOPE OF PROPOSED SILT FENCE LOCATION. NO LAND DISTURBANCE BEYOND PROPERTY LINES.
4. JSD SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER/CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY ANY OR ALL REGULATORY AGENCIES.

1. ALL PROPOSED GRADES SHOWN ARE FINISHED GRADES. CONTRACTOR SHALL VERIFY ALL GRADES, MAKE SURE ALL AREAS DRAIN PROPERLY AND SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR COMPUTATIONS OF ALL GRADING QUANTITIES, WHILE USING PROFESSIONAL SERVICES, INC. ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARDS OF CARE. THEREFORE, NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
3. PARKING LOT AND DRIVEWAY ELEVATIONS ARE PAVEMENT GRADES, NOT TOP OF CURB GRADES, UNLESS OTHERWISE NOTED.
4. ANY WORK WITHIN RIGHT-OF-WAY SHALL BE PROPERLY PERMITTED AND COORDINATED WITH THE APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. ALL GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS.
5. CONTRACTOR SHALL PROVIDE NOTICE TO THE MUNICIPALITY IN ADVANCE OF ANY SOIL DISTURBING ACTIVITIES, IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.

6. ALL DISTURBED AREAS SHALL BE SODDED AND/OR SEEDED AND MULCHED IMMEDIATELY FOLLOWING GRADING ACTIVITIES. SOD/SEED MIX TO BE IN ACCORDANCE WITH LANDSCAPE PLAN.
7. CITY SHALL WATER ALL NEWLY SODDED/SEEDS AREAS DURING THE SUMMER MONTHS WHENEVER THERE IS A 7 DAY LAPSE WITH NO SIGNIFICANT RAINFALL.
8. CITY TO DEEP TILL ALL COMPACTED PVIOUS SURFACES PRIOR TO SODDING AND/OR SEEDING AND MULCHING.
9. ALL SLOPES 20% OR GREATER SHALL BE TEMPORARY SEEDDED, MULCHED, OR OTHER MEANS OF COVER PLACED ON THEM WITHIN 2 WEEKS OF DISTURBANCE.
10. ALL EXPOSED SOIL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 30 DAYS AND REQUIRE VEGETATIVE COVER FOR LESS THAN 1 YEAR, REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH WDNr TECHNICAL STANDARD 1059 AND CITY OF WATERTOWN ORDINANCE.

SEE UTILITY SHEET FOR ADDITIONAL INFORMATION



UTILITY PLAN AND NOTES: FOR REFERENCE ONLY - SCOPE NOT IN CONTRACT. UTILITIES BY CITY, CONTRACTOR TO COORDINATE WITH CITY AND CITY'S CONTRACTORS.

1. ALL EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATIONS OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR/OWNER SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
2. PRIOR TO CONSTRUCTION, THE PRIME CONTRACTOR IS RESPONSIBLE FOR:
- EXAMINING ALL SITE CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING ALL ELEVATIONS, LOCATIONS AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS. NOTIFY ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
 - COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
3. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN — AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS' RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
4. SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WATERTOWN SPECIAL PROVISIONS.
5. LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
6. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY DURING THE CONSTRUCTION OF IMPROVEMENTS.
7. CONTRACTOR SHALL INSTALL A PEDESTRIAN FENCE AROUND ALL EXCAVATIONS TO BE LEFT OPEN OVER NIGHT AS REQUIRED IN CONSTRUCTION SITES WHERE THE POTENTIAL FOR PEDESTRIAN INJURY EXISTS.
8. CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT ALL UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH THE FINISHED GRADES OF THE AREAS EFFECTED BY THE CONSTRUCTION.
9. THE PRIME CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION WITH OTHER CONTRACTORS INVOLVED WITH CONSTRUCTION OF THE PROPOSED DEVELOPMENT AND FOR REPORTING ANY ERRORS OR DISCREPANCIES BETWEEN THESE PLANS AND PLANS PREPARED BY OTHERS.
10. ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
12. WATER MAIN SPECIFICATIONS —

PIPE — POLYVINYL CHLORIDE (PVC) PIPE SHALL MEET THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 150, DR-18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS. NON-METALLIC WATER MAINS SHALL BE INSTALLED WITH BLUE INSULATION TRACER WIRE AND CONFORM WITH SPS 382.30(11)(h).

VALVES AND VALVE BOXES — GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.

BEDDING AND COVER MATERIAL — PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".

BACKFILL: PRIVATE SERVICE — BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS". GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

BACKFILL AND BEDDING: PUBLIC R.O.W — ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY HALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.

13. SANITARY SEWER SPECIFICATIONS —

PIPE — SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35, WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS, MEETING THE REQUIREMENTS OF ASTM D-3212.

BEDDING AND COVER MATERIAL — BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A). BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS, WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."

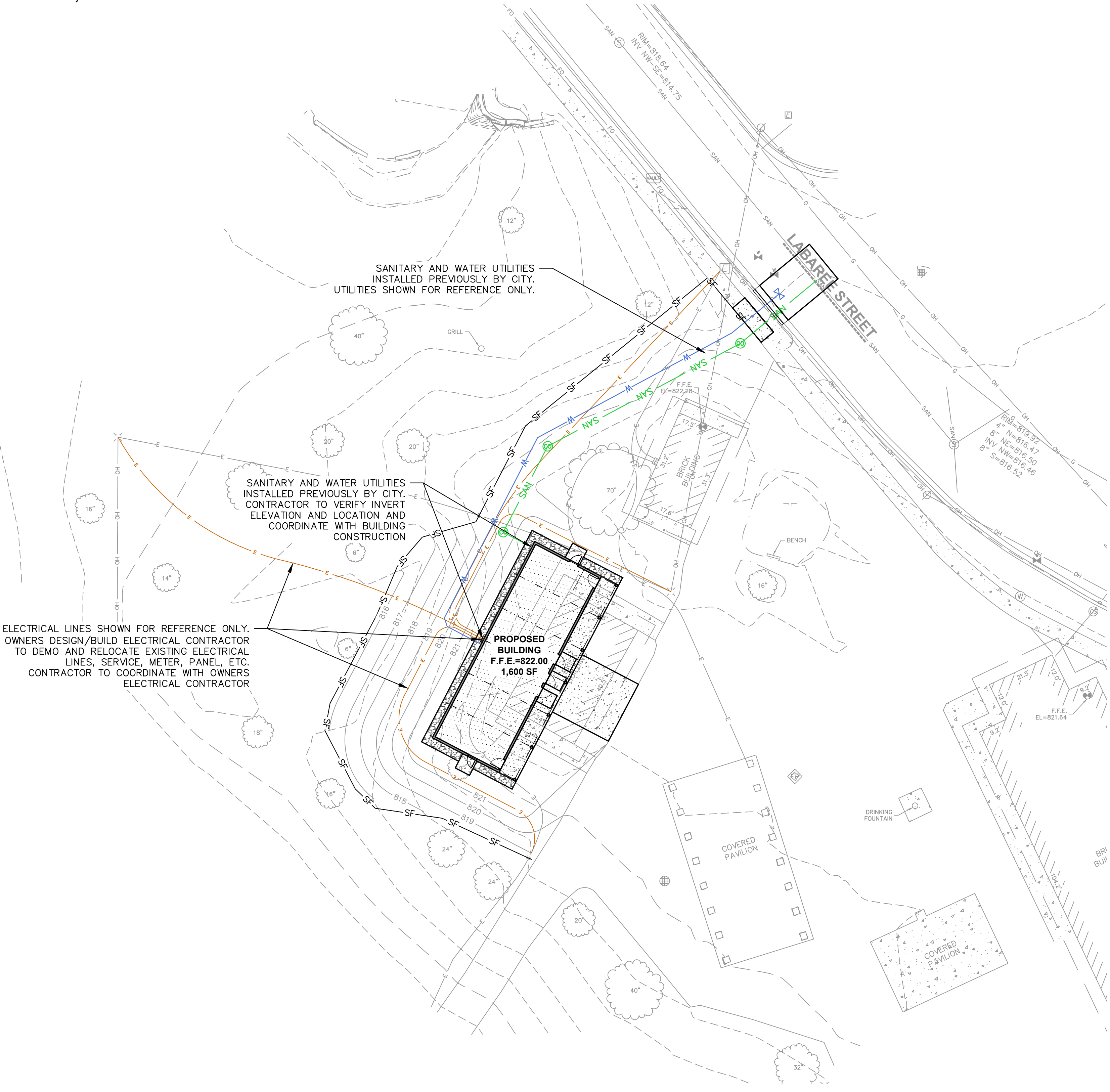
BACKFILL: PRIVATE SERVICE — BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS." GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL. LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."

BACKFILL AND BEDDING: PUBLIC R.O.W — ALL EXCAVATION IN THE PUBLIC STREET RIGHT-OF-WAY HALL BE BACKFILLED WITH SLURRY IN ACCORDANCE WITH LOCAL REGULATIONS.

14. WATERMAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6 FEET. INSULATION AND INSTALLATION OF INSULATION SHALL BE CONFORMING WITH CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).

LEGEND

-----	PROPERTY LINE
- - - - -	EASEMENT LINE
-----	RIGHT OF WAY LINE
=====	STANDARD CURB AND GUTTER
—SF—SF—	SILT FENCE
—SAN—	SANITARY SERVICE
—C—	SANITARY CLEANOUT
—W—	WATER SERVICE
—V—	WATER VALVE



Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

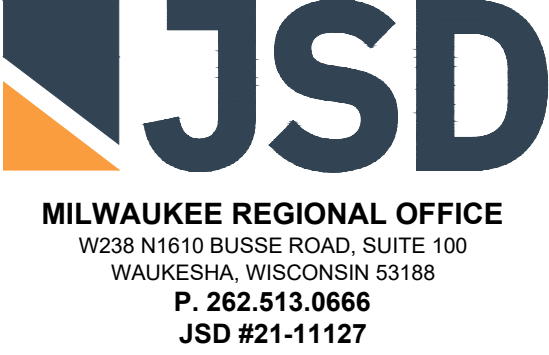
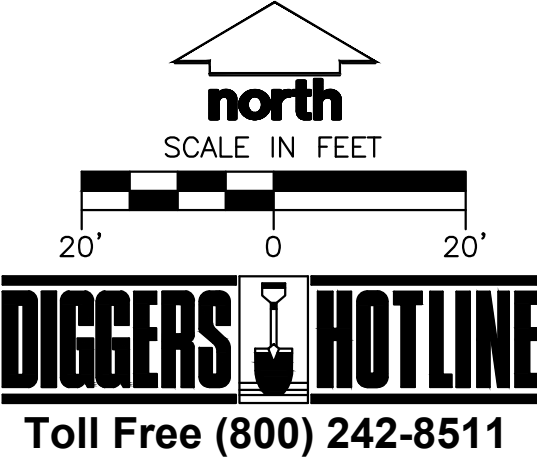
Project Info. — 22005
Riverside Park
Restrooms
New Construction
600 Labaree St
Watertown, WI

Sheet Title —
UTILITY PLAN

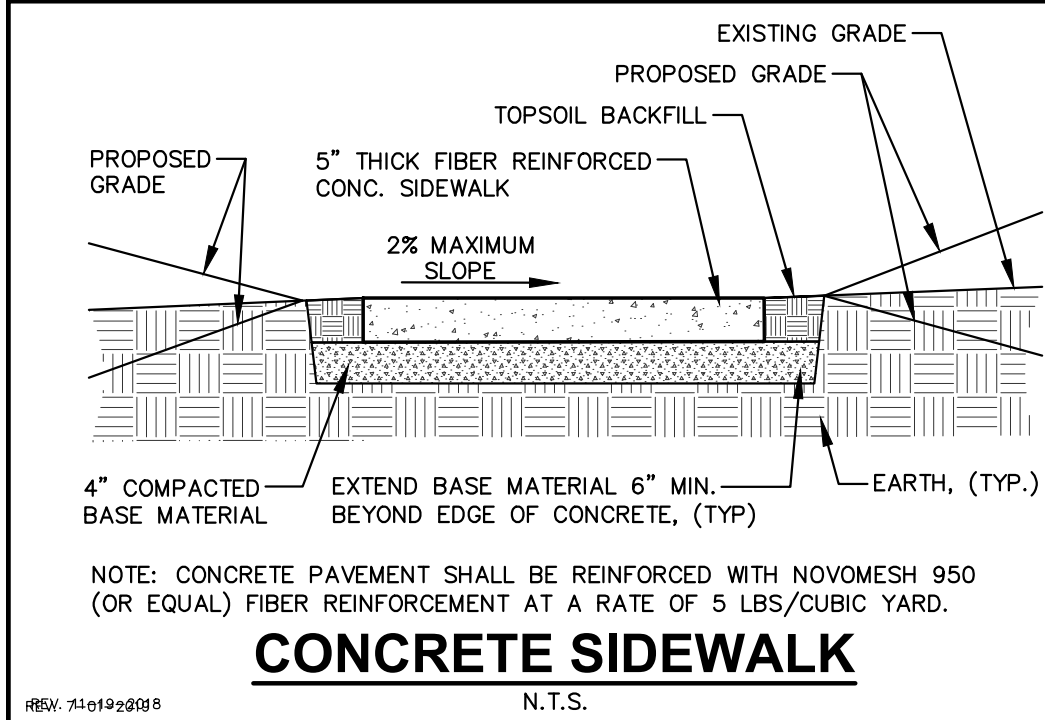
Drawn by	Checked by
YT	KCB

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

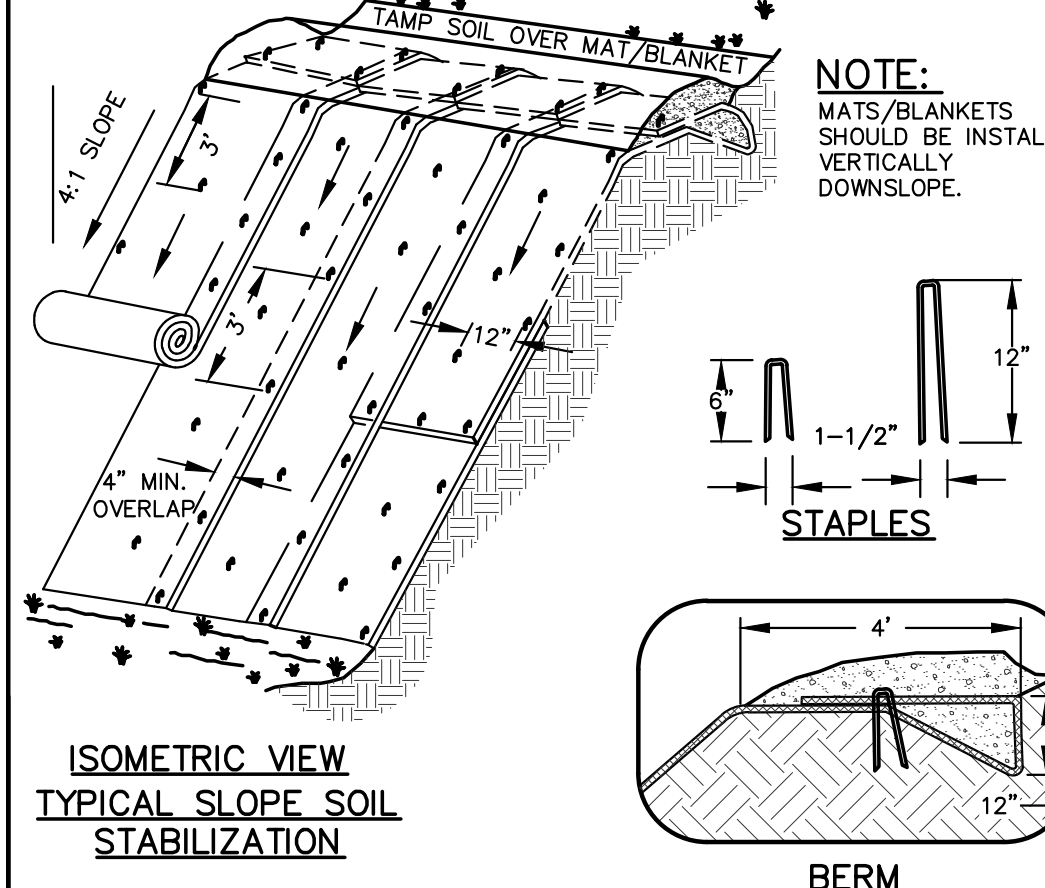
Sheet No. —
C4.0



2023-06-30 Bid & Permit Set



CONCRETE SIDEWALK
N.T.S.



ISOMETRIC VIEW
TYPICAL SLOPE SOIL
STABILIZATION

- GENERAL NOTES:**
- EROSION MAT CONSTRUCTION SHALL BE IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1052 "NON-CHANNEL EROSION MAT".
 - ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.
 - APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
 - LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
 - ONLY WisDOT EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) APPROVED MATS SHALL BE ALLOWED. REFER TO EROSION CONTROL PLAN FOR EXACT MAT CLASSIFICATION.

EROSION MATTING
N.T.S.

- GENERAL NOTES:**
- INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.
- MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.
- WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.
- FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER OF FACILITATE MAINTENANCE OR REMOVAL.
 - FOR INLET PROTECTION, TYPE "C" (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
 - FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2X4

INSTALLATION NOTES:

TYPE "B" & "C"

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

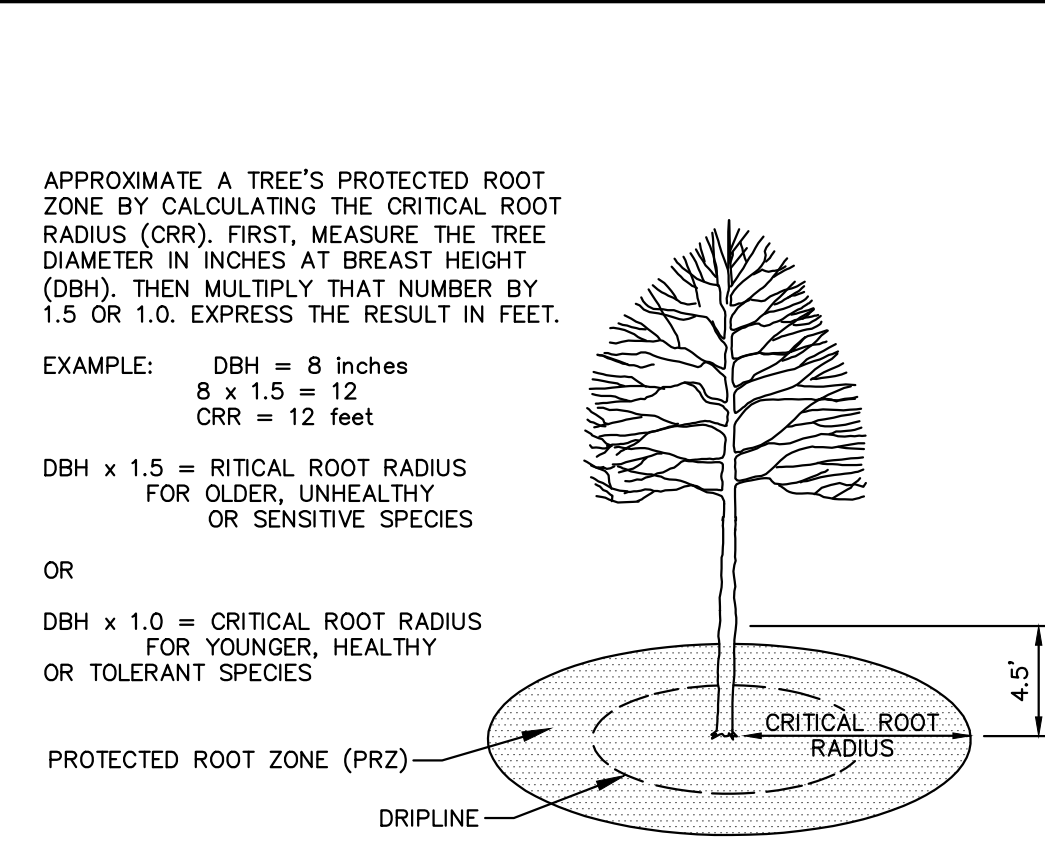
INSTALLATION NOTES:

TYPE "D"

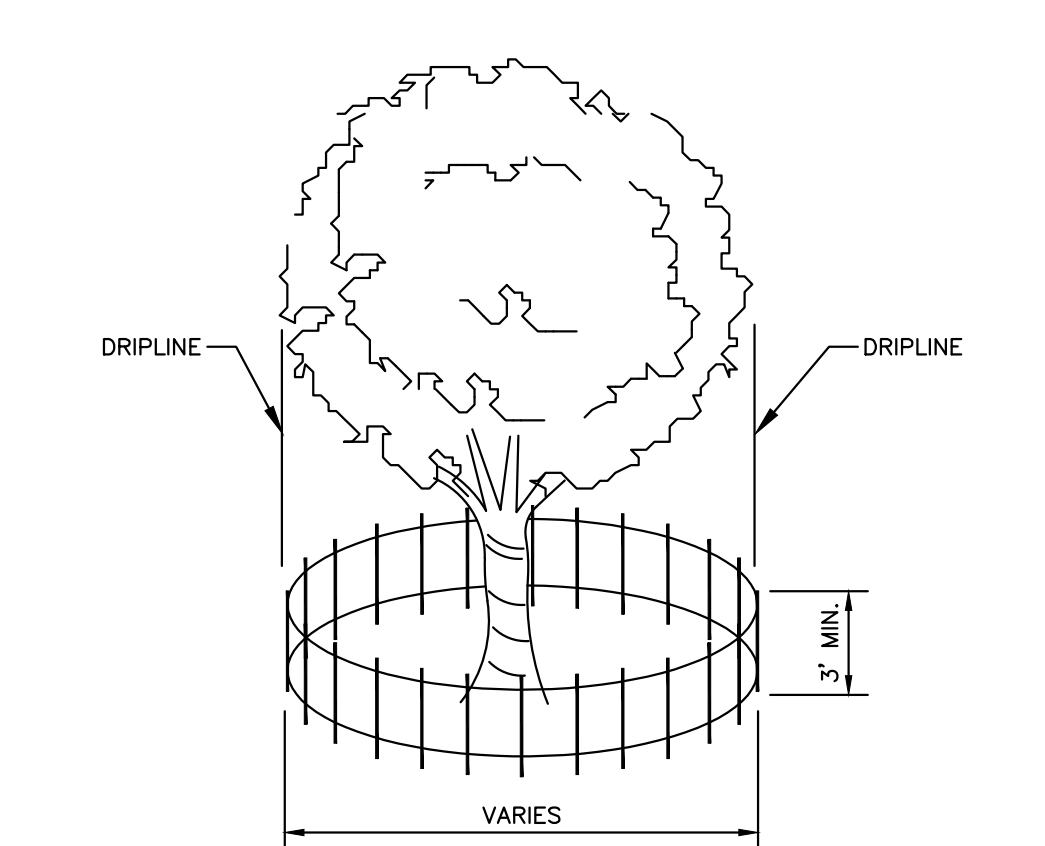
DO NOT INSTALL INLET PROTECTION TYPE "D" IN INLETS SHALLOWER THAN 30 INCHES, MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCHES CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4 INCHES FROM THE BOTTOM OF THE BAG.



TREE PROTECTION DETAIL
N.T.S.



TREE PROTECTION DETAIL
N.T.S.

- NOTE:**
- CONTRACTOR SHALL INSTALL TREE PROTECTION FENCING IN THE AREA SURROUNDING THE TREE WITHIN THE CRITICAL ROOT RADIUS
 - NO EXCAVATION IS PERMITTED WITHIN THE CRITICAL ROOT RADIUS
 - IF EXCAVATION WITHIN THE CRITICAL ROOT RADIUS OF ANY TREE IS NECESSARY, CONTRACTOR SHALL CONTACT CITY FORESTER PRIOR TO EXCAVATION TO ASSESS THE IMPACT TO THE TREE AND ROOT SYSTEM.

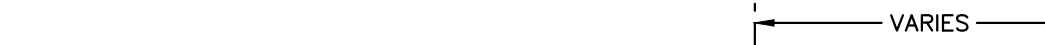
TREE PROTECTION DETAIL
N.T.S.

TRENCH DETAIL



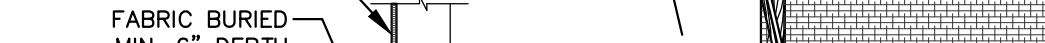
TRENCH DETAIL
N.T.S.

INLET PROTECTION - TYPE "A"



INLET PROTECTION - TYPE "A"
N.T.S.

INLET PROTECTION - TYPE "B" WITHOUT CURB BOX



INLET PROTECTION - TYPE "B" WITHOUT CURB BOX
N.T.S.

INLET PROTECTION - TYPE "C" WITH CURB BOX



INLET PROTECTION - TYPE "C" WITH CURB BOX
N.T.S.

INLET PROTECTION - TYPE "D"

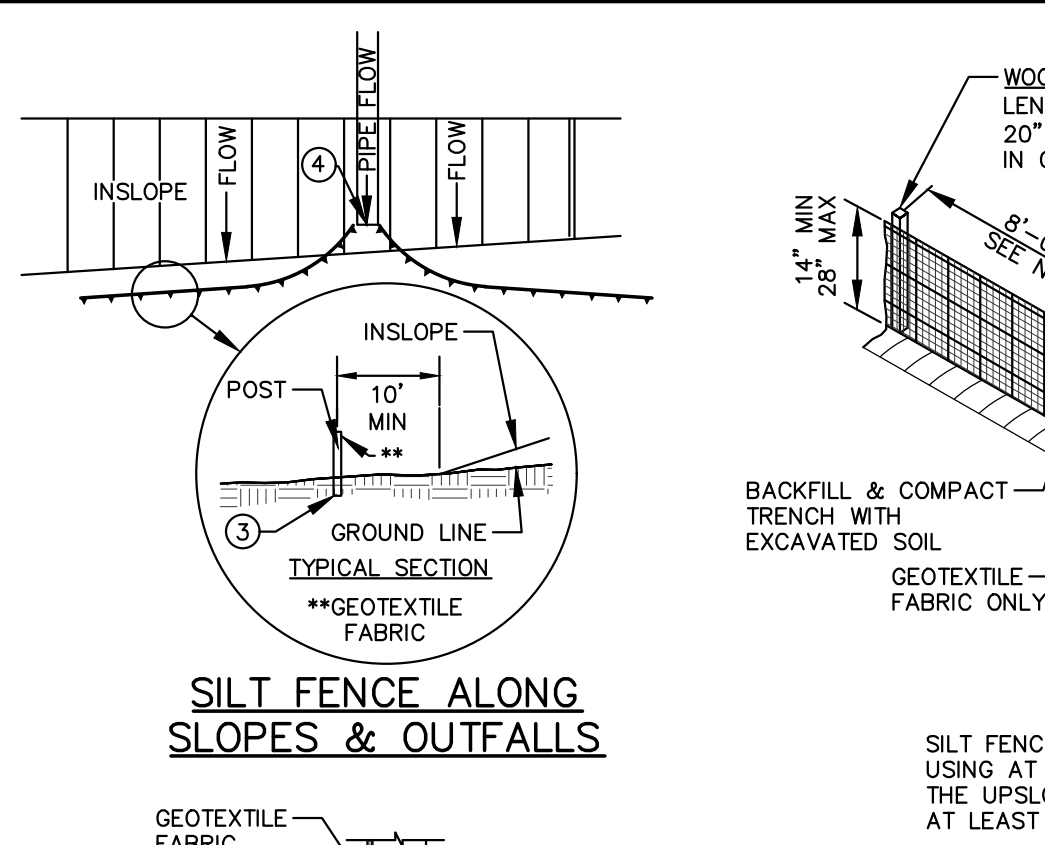


INLET PROTECTION - TYPE "D"
N.T.S.

INLET PROTECTION



INLET PROTECTION
N.T.S.



SILT FENCE ALONG SLOPES & OUTFALLS
N.T.S.

TRENCH DETAIL



TRENCH DETAIL
N.T.S.

SILT FENCE TIE BACK



SILT FENCE TIE BACK
N.T.S.

SILT FENCE



SILT FENCE
N.T.S.

SANITARY SEWER CLEANOUT



SANITARY SEWER CLEANOUT
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

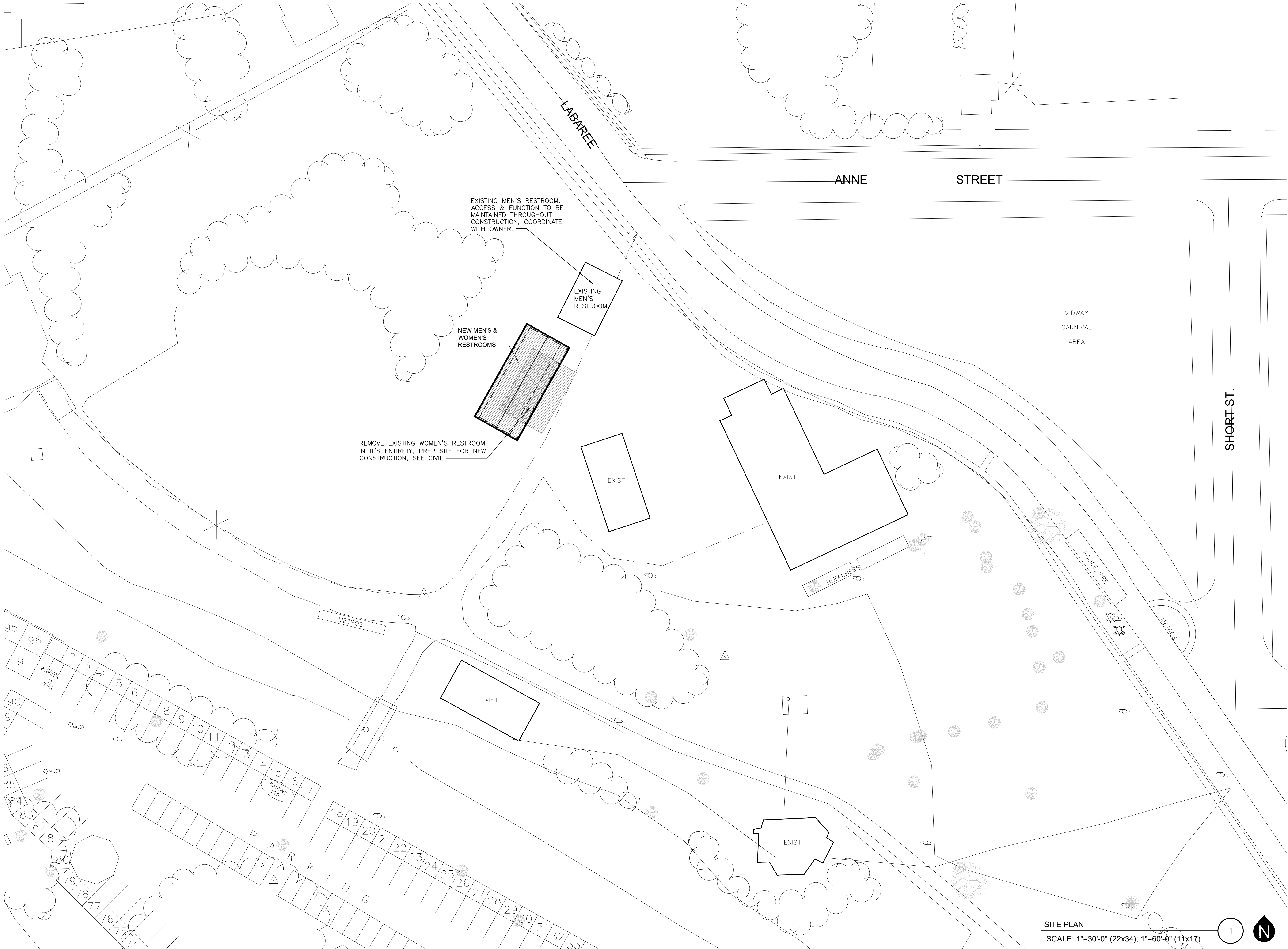
LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+

LEGEND
N.T.S.

LEGEND

1.5	2	3	4	5	6	8+
1.5	1.5	1.5	1.5	1.5	1.5	1.5
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
8+	8+	8+	8+	8+	8+	8+



THRIVE
ARCHITECTS

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction
600 Labaree St
Watertown, WI

Sheet Title

SITE PLAN

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No.

SP1.0

2023-06-30 Bid & Permit Set

Riverside Park
Restrooms

New Construction

600 Labaree St
Watertown, WI

FLOOR PLAN

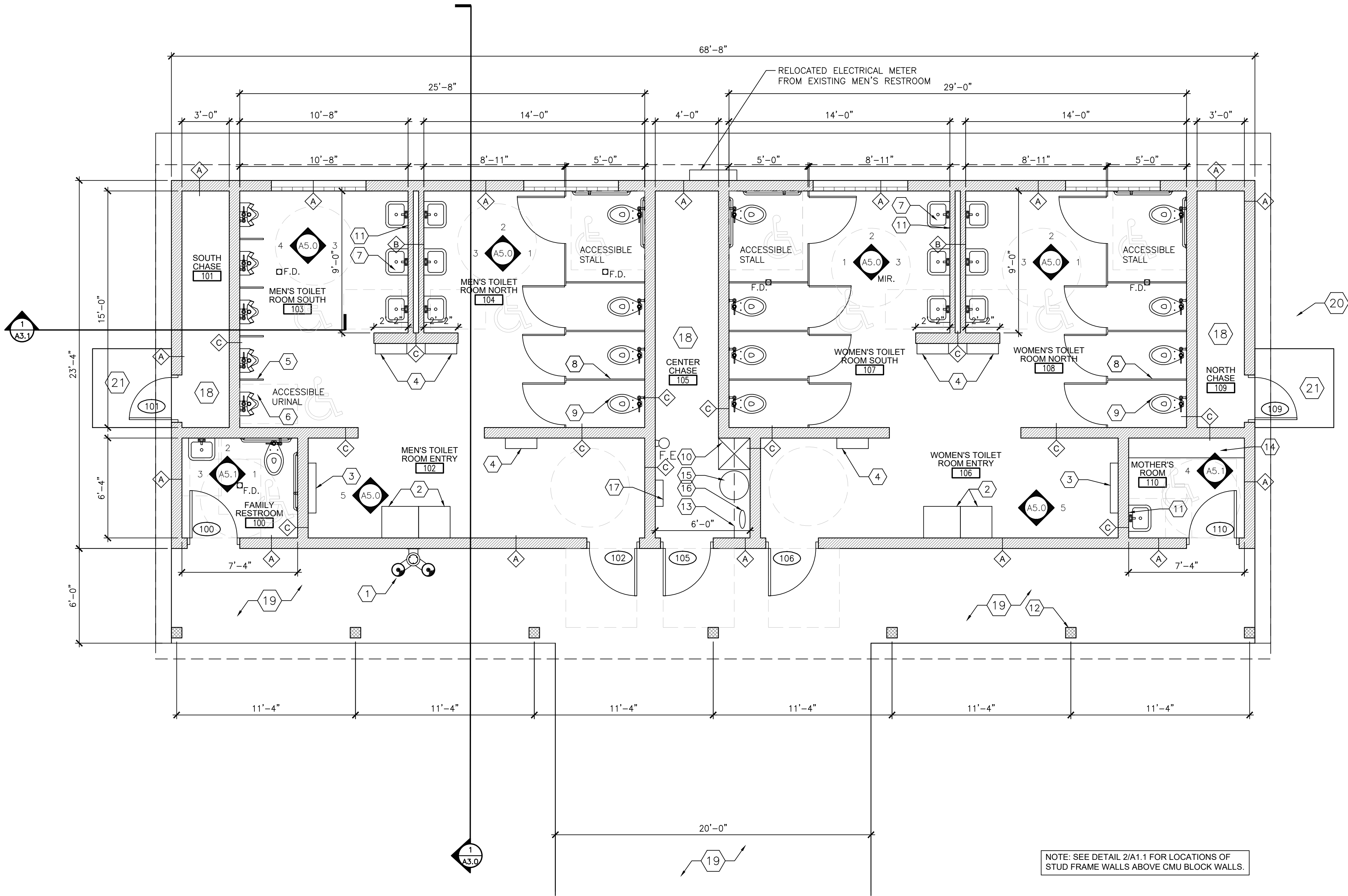
Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

A1.0

PLAN/EQUIP. KEY

- | | | |
|------------------------------------|---------------------------|-----------------------------|
| 1 DRINKING FOUNTAIN, BOTTLE FILLER | 9 TOILET PARTITION | 17 ELECTRICAL PANEL |
| 2 TRASH RECEPTACLE | 10 JANITOR'S SINK | 18 PLUMBING CHASE |
| 3 CHANGING STATION | 11 MIRROR | 19 CONCRETE SIDEWALK |
| 4 HAND DRYER | 12 COLUMN, SEE STRUCTURAL | 20 GRAVEL MAINTENANCE STRIP |
| 5 URINAL | 13 SHELVING, BY OWNER | 21 5X5 STOOP |
| 6 URINAL PARTITION | 14 BENCH SEAT | |
| 7 LAVATORY | 15 WATER HEATER | |
| 8 TOILET | 16 WATER METER | |



NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF
STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

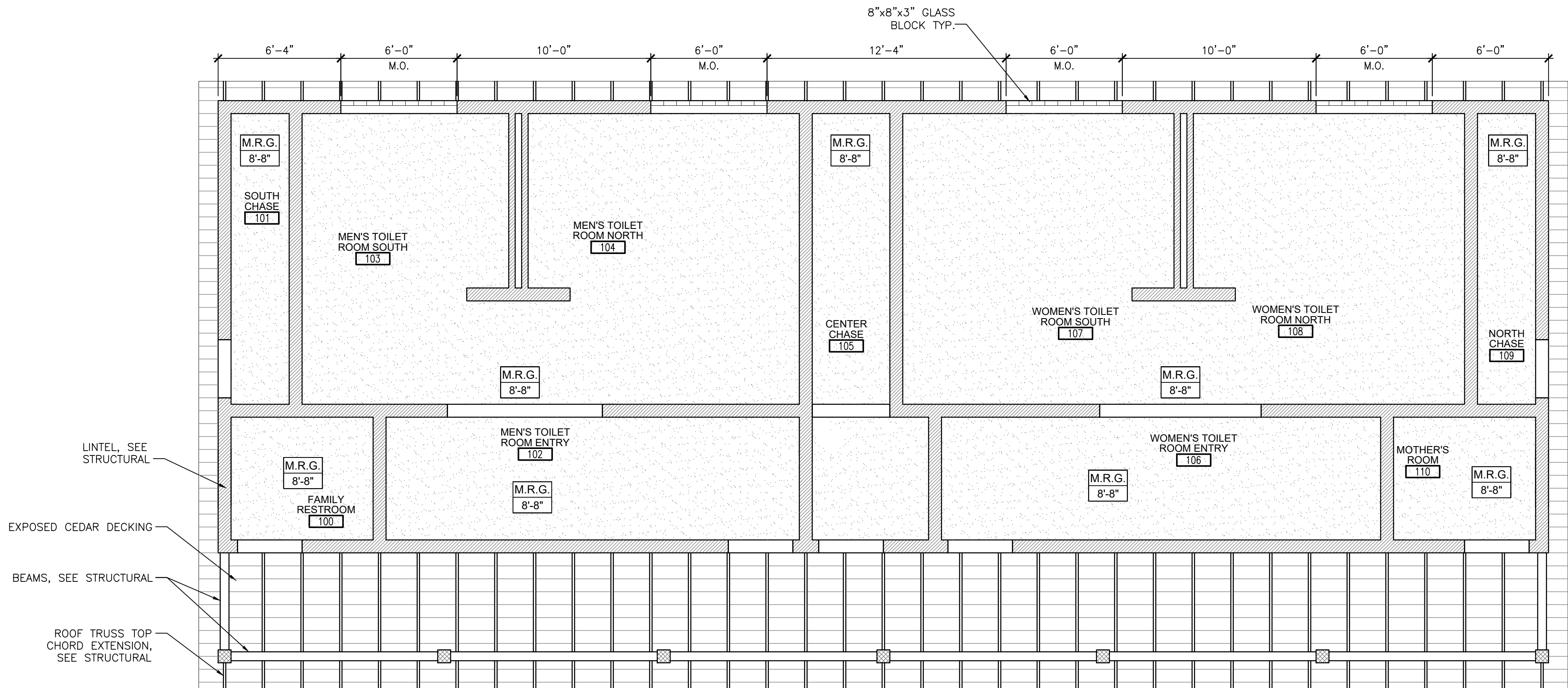
FLOOR PLAN

SCALE: 1/4"=1'-0" (22x34); 1/8"=1'-0" (11x17)



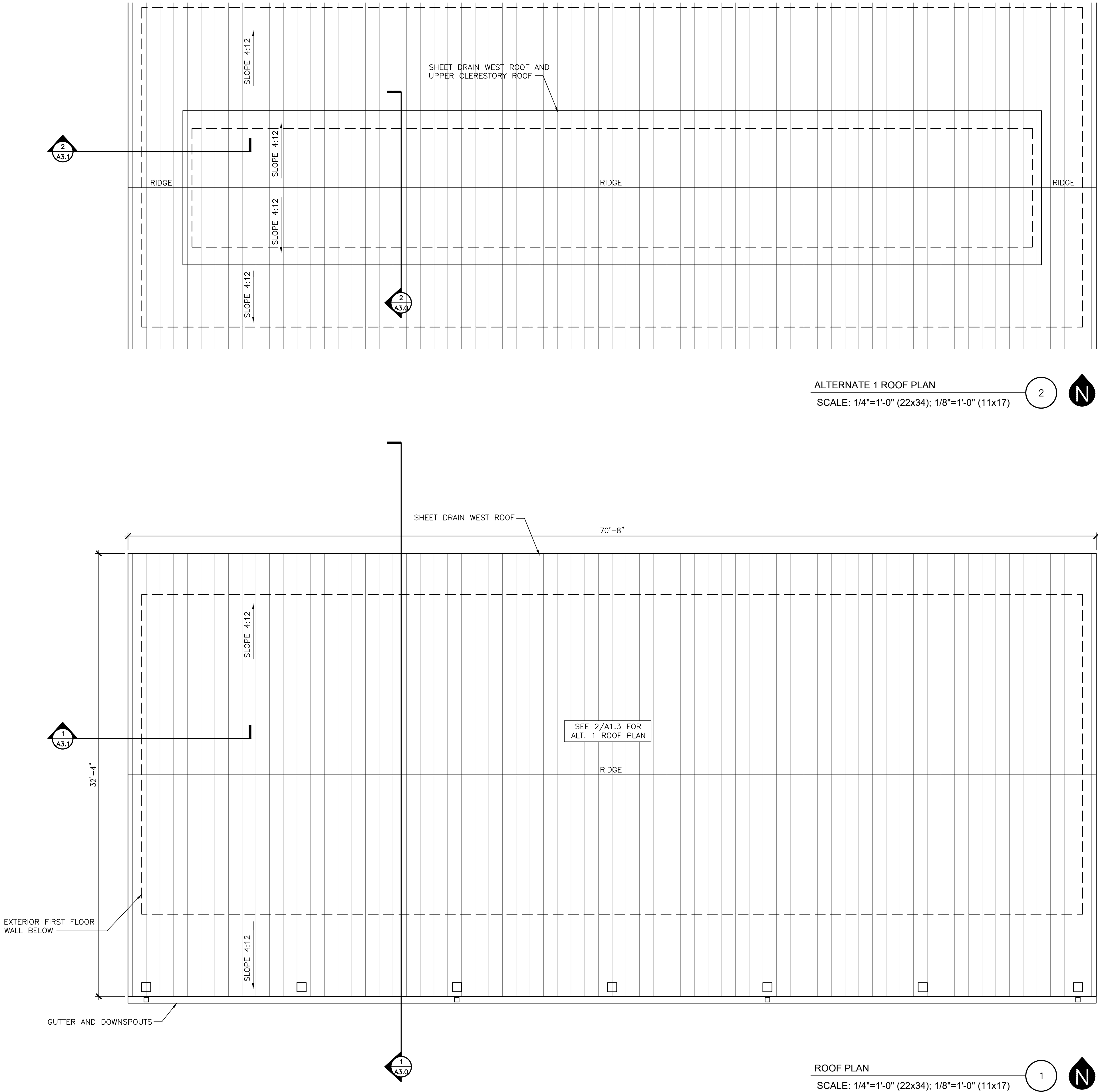
Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

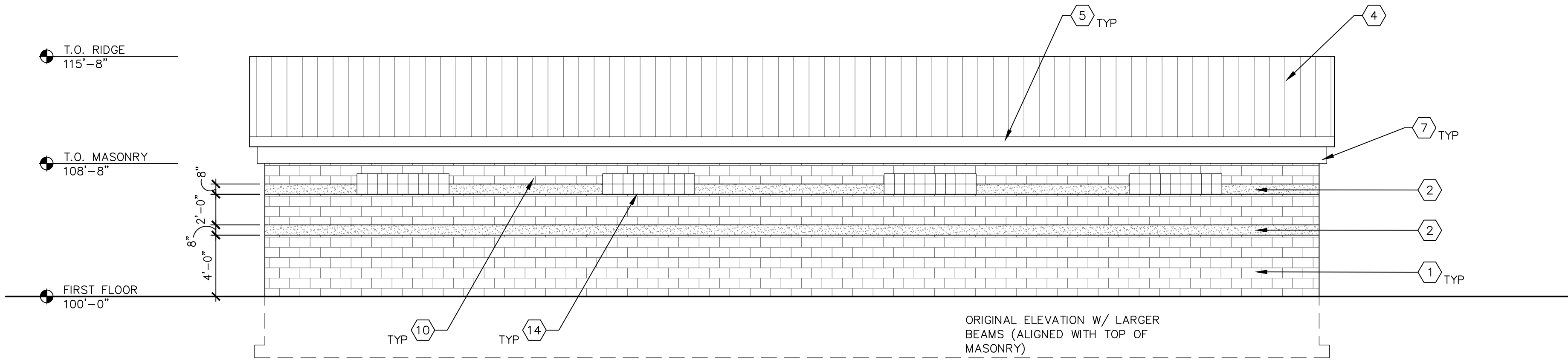


Drawn by	Checked by
JAJ	DMR

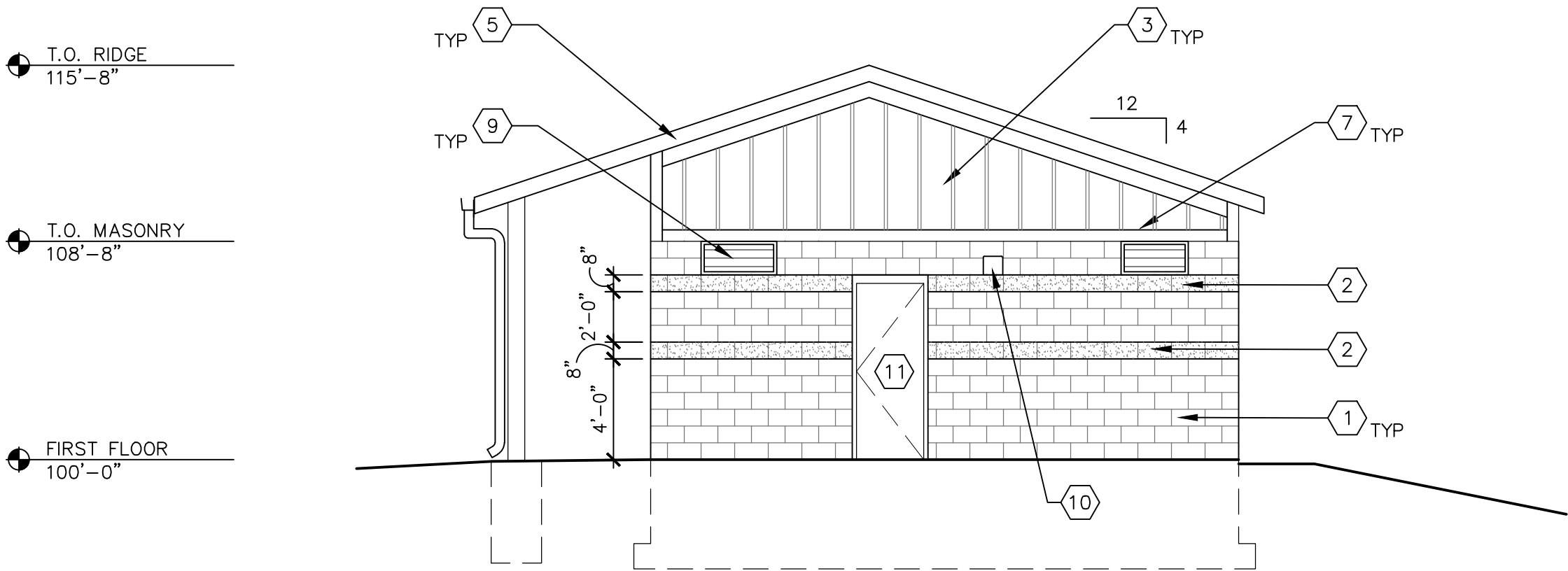
No.	Date	Description
	06.30.2023	Bid & Permit Set



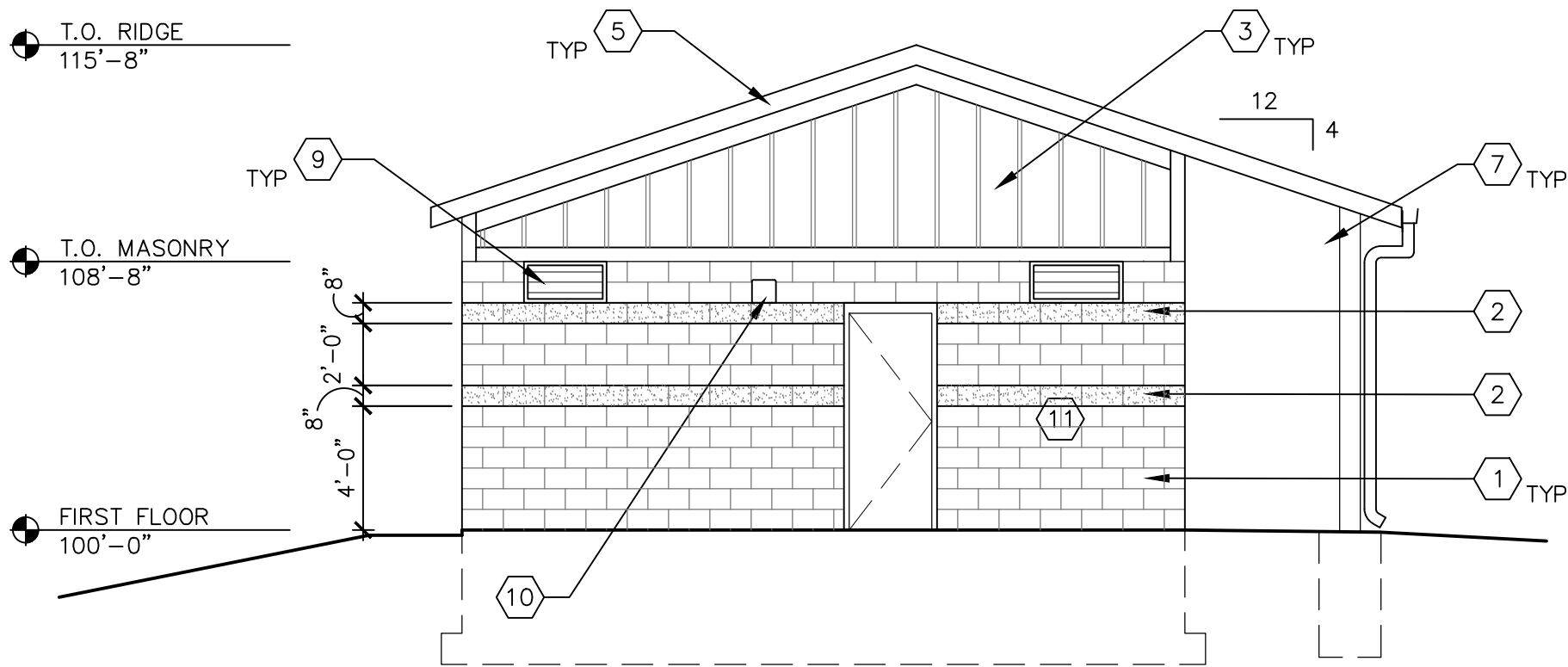
KEY NOTES			
1	CMU SPLIT FACE BLOCK (FIELD) COLOR: NATURAL, MFG: COUNTY MATERIALS OR EQUAL.	7	CEDAR CLAD STRUCTURE
2	CMU SMOOTH FACE BLOCK (ACCENT STRIPE) COLOR: STEEL GREY, MFG: COUNTY MATERIALS OR EQUAL.	8	12"x12" PREFINISHED VENT LOUVER, WITH INTERIOR MESH BUG SCREEN
3	BOARD & BATTEN LP SIDING COLOR: T.B.D.	9	EXHAUST / INTAKE LOUVER, COORDINATE WITH MECHANICALS; COLOR TO MATCH FIELD CMU.
4	BASE BID: STANDING SEAM ROOF COLOR: CHARCOAL, MFG: ATAS, OR EQUAL. ALTERNATE BID: ASPHALT SHINGLES COLOR: ESTATE GREY; MFG: OWENS CORNING DURATION OR EQUAL.	10	WALL MOUNTED LIGHT FIXTURE, COORDINATE WITH ELECTRICAL.
5	PREFINISHED ALUMINUM FASCIA, GUTTERS AND DOWNSPOUTS. COLOR: CHARCOAL GREY, MFG: ATAS, OR EQUAL.	11	HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU FIELD COLOR.
6	WINDOW, FROSTED GLASS, 3M SECURITY FILM APPLIED, COMPOSITE TRIM, TO MATCH BOARD & BATTEN SIDING	12	HOLLOW METAL DOOR AND FRAME, PAINTED TO MATCH CMU ACCENT COLOR.
		13	SIGNAGE.
		14	8"x8" GLASS BLOCK
		15	DECORATIVE VENT



NORTH ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

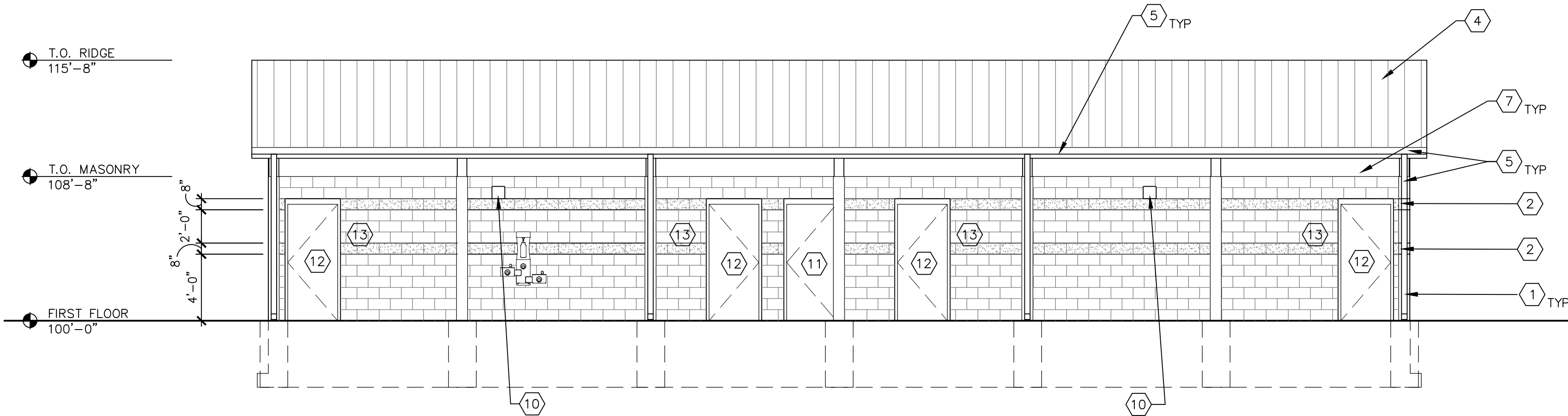


EAST ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)



WEST ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

NOTE: SEE A2.1 FOR
ALT. 1 ELEVATIONS



SOUTH ELEVATION
SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

THRIVE
ARCHITECTS

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction
600 Labaree St
Watertown, WI

Sheet Title

EXTERIOR ELEVATIONS

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

2023-06-30 Bid & Permit Set

Sheet No.

A2.0

KEY NOTES

- 1

CMU SPLIT FACE BLOCK (FIELD)
COLOR: NATURAL, MFG: COUNTY MATERIALS
OR EQUAL.
- 2

CMU SMOOTH FACE BLOCK (ACCENT STRIPE)
COLOR: STEEL GREY, MFG: COUNTY MATERIALS
OR EQUAL.
- 3

BOARD & BATTEN LP SIDING
COLOR: T.B.D.
- 4

BASE BID: STANDING SEAM ROOF
COLOR: CHARCOAL, MFG: ATAS, OR EQUAL.
ALTERNATE BID: ASPHALT SHINGLES
COLOR: ESTATE GREY; MFG: OWENS CORNING
DURATION OR EQUAL.
- 5

PREFINISHED ALUMINUM FASCIA, GUTTERS
AND DOWNSPOUTS.
COLOR: CHARCOAL GREY, MFG: ATAS, OR
EQUAL.
- 6

WINDOW, FROSTED GLASS, 3M SECURITY FILM
APPLIED, COMPOSITE TRIM, TO MATCH BOARD &
BATTEN SIDING
- 7

CEDAR CLAD STRUCTURE
- 8

12"x12" PREFINISHED VENT LOUVER, WITH
INTERIOR MESH BUG SCREEN
- 9

EXHAUST / INTAKE LOUVER, COORDINATE WITH
MECHANICALS; COLOR TO MATCH FIELD CMU.
- 10

WALL MOUNTED LIGHT FIXTURE, COORDINATE
WITH ELECTRICAL.
- 11

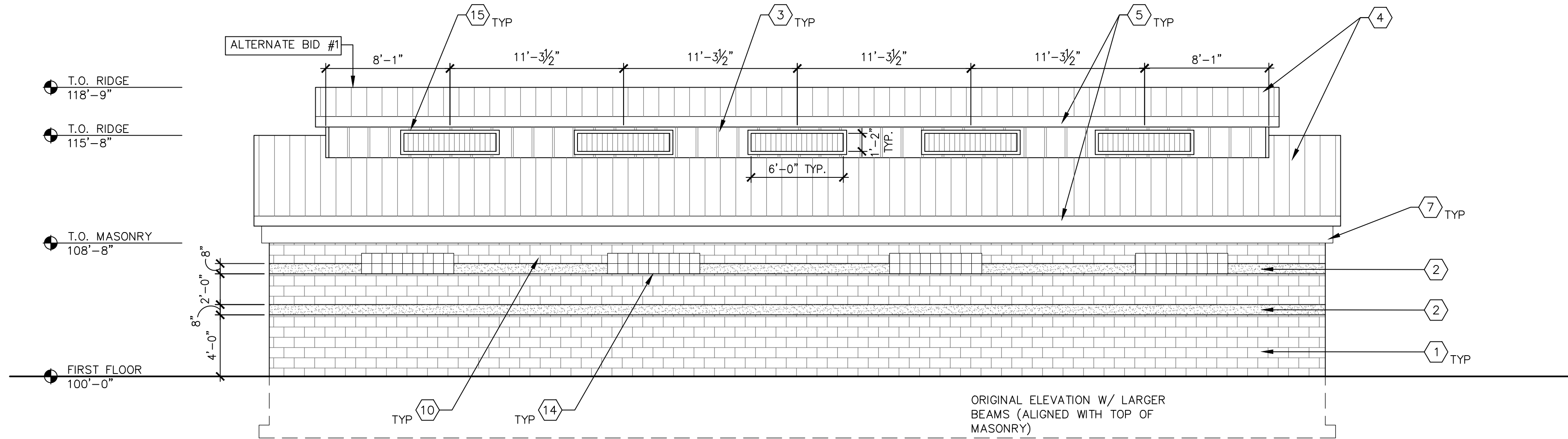
HOLLOW METAL DOOR AND FRAME, PAINTED TO
MATCH CMU FIELD COLOR.
- 12

HOLLOW METAL DOOR AND FRAME, PAINTED TO
MATCH CMU ACCENT COLOR.
- 13

SIGNAGE.
- 14

8"x8" GLASS BLOCK
- 15

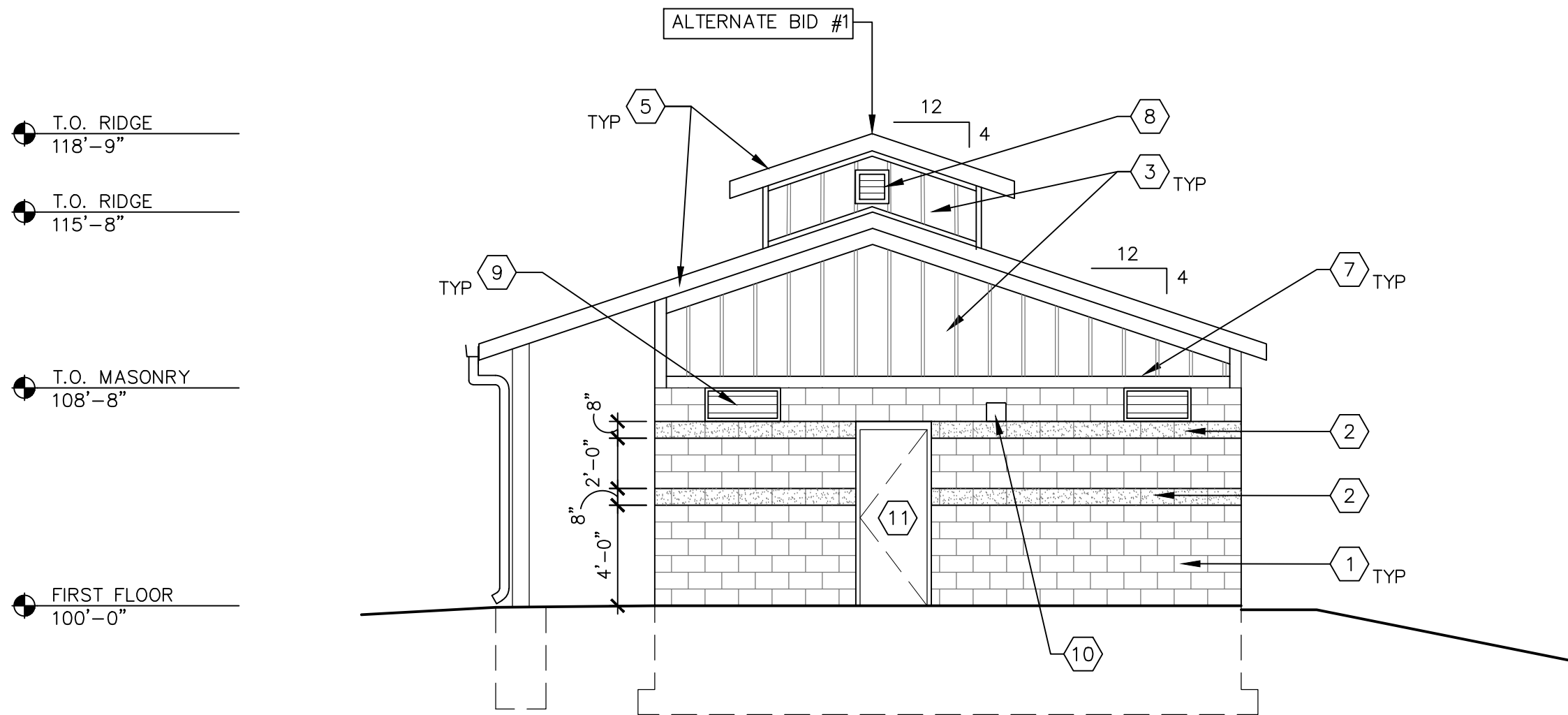
FAUX DECORATIVE VENT



NORTH ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

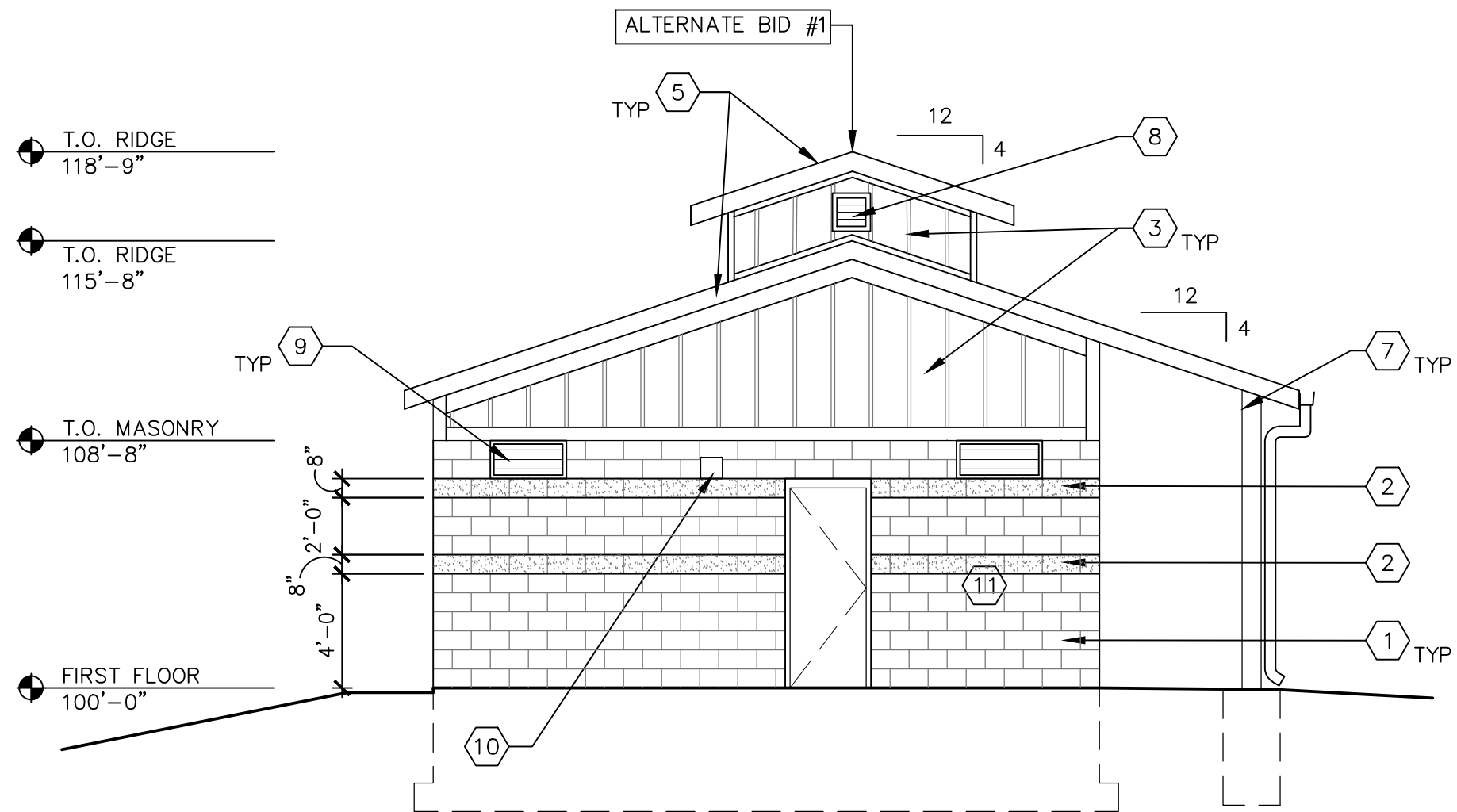
4



EAST ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

3

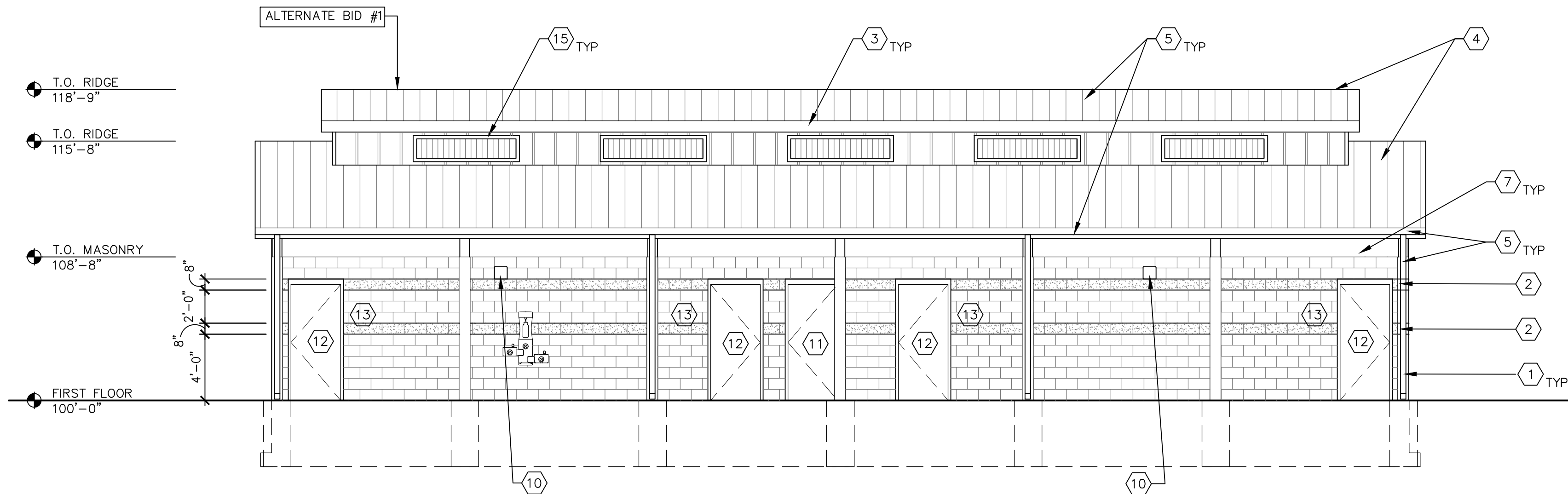


WEST ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

2

NOTE: SEE A2.0 FOR
BASE BID ELEVATIONS



SOUTH ELEVATION

SCALE: 3/16"=1'-0" (22x34); 3/32"=1'-0" (11x17)

1

THRIVE
ARCHITECTS

Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

ALTERNATE 1 EXTERIOR
ELEVATIONS

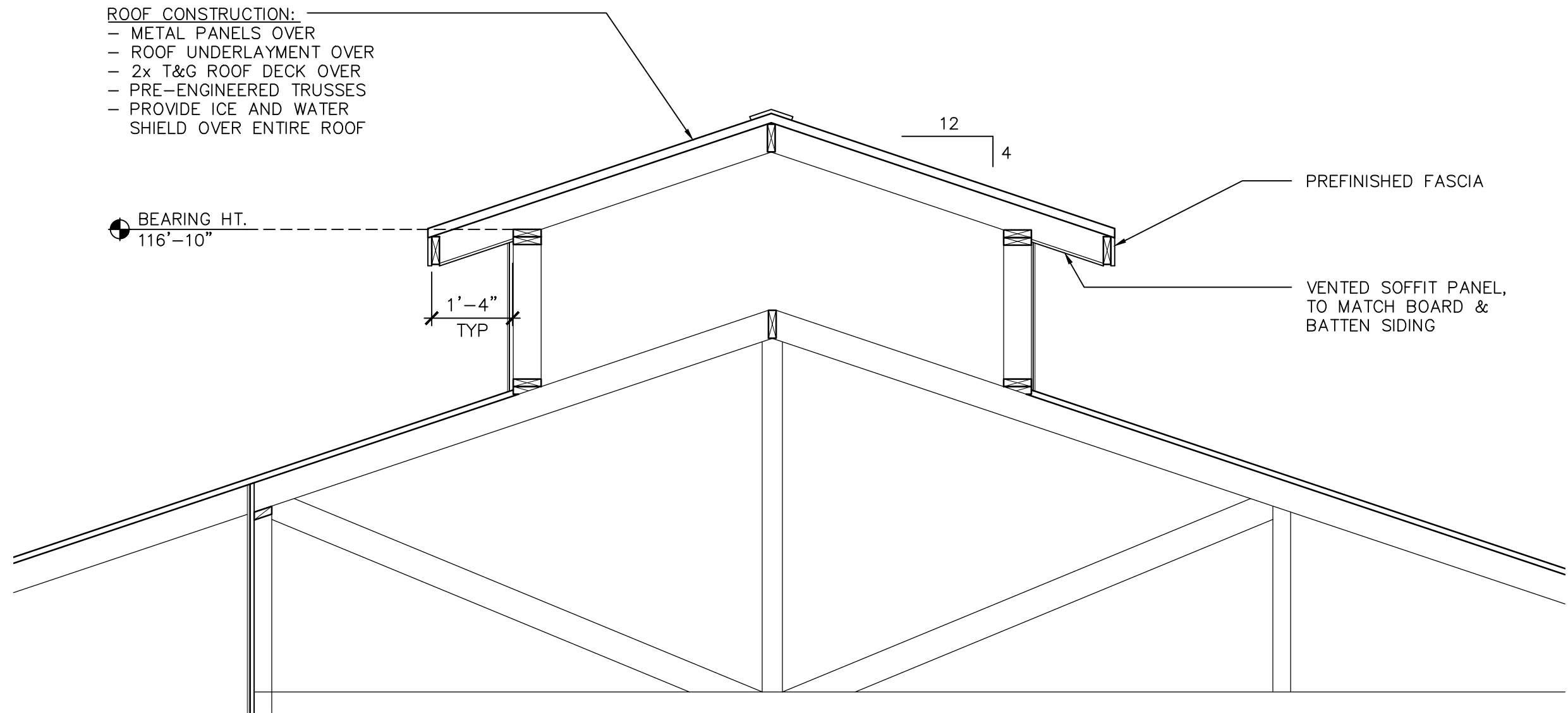
Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No.

A2.1

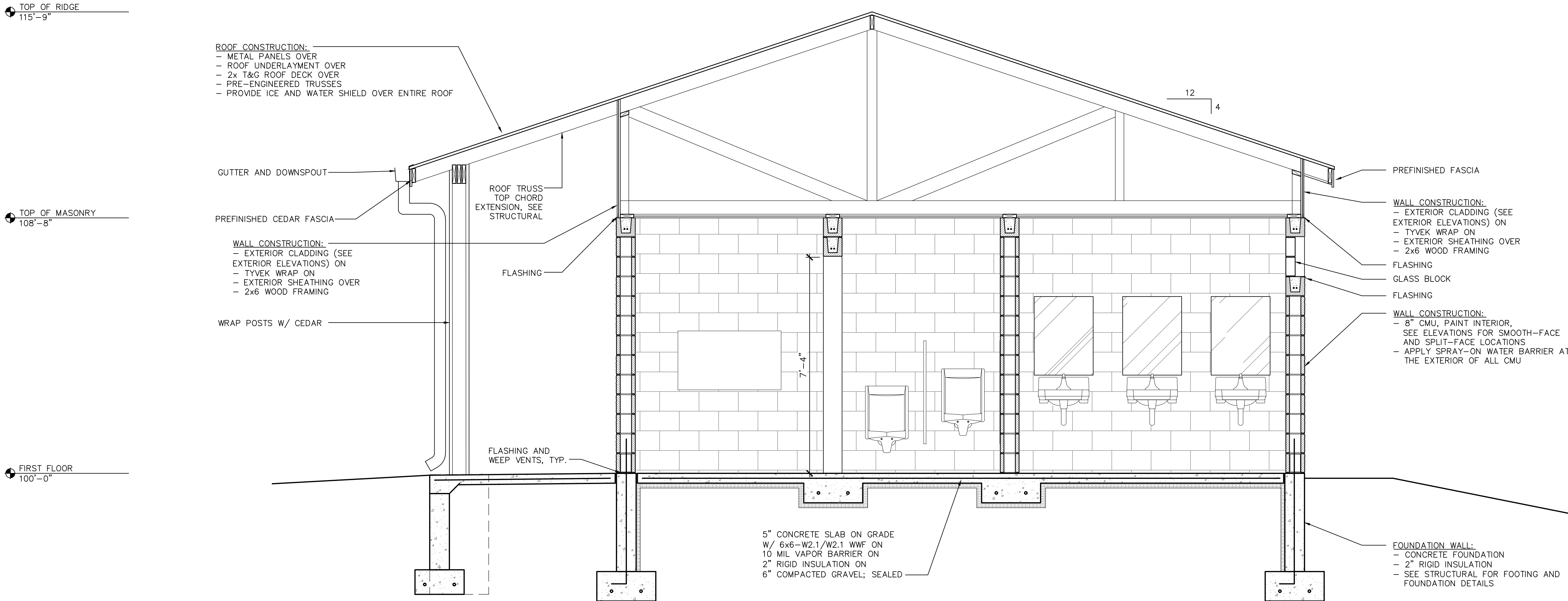
2023-06-30 Bid & Permit Set



ALTERNATE 1 BUILDING SECTION
SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

2

SEE 2/A3.0 FOR ALT.
1 BUILDING SECTION



BUILDING SECTION
SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

1

2023-06-30 Bid & Permit Set

Riverside Park
Restrooms

New Construction

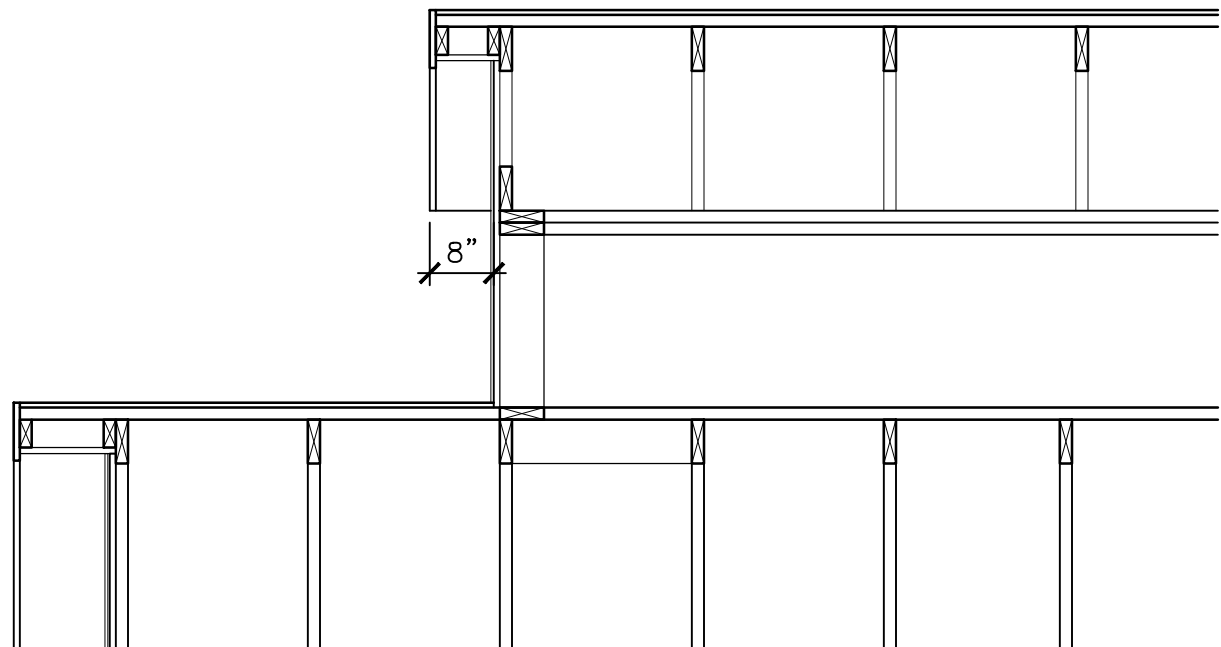
600 Labaree St
Watertown, WI

BUILDING SECTIONS

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

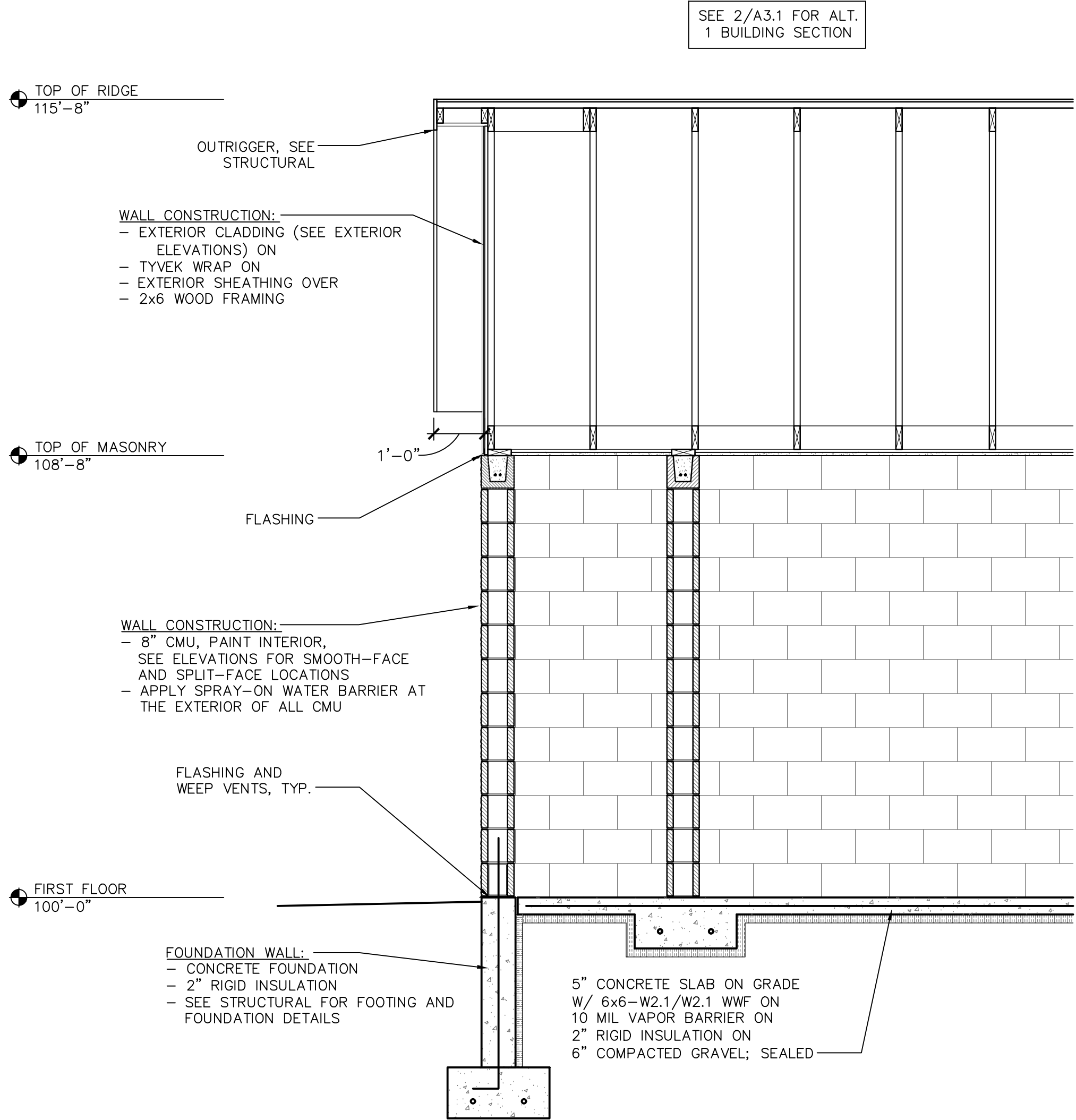
A3.1



ALTERNATE 1 BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

2



BUILDING SECTION

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

1

NOTES:
1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

THRIVE
ARCHITECTS

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
P: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction
600 Labaree St
Watertown, WI

Sheet Title

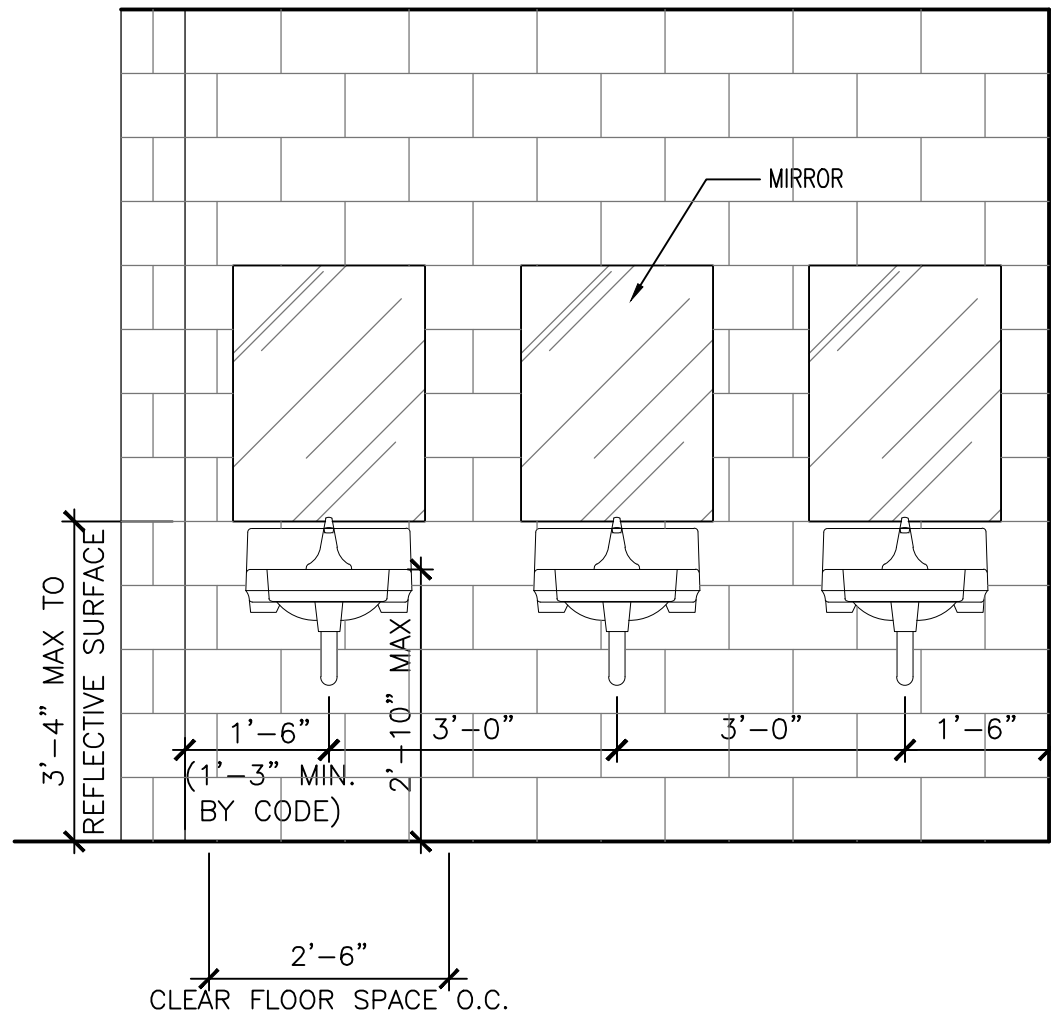
INTERIOR ELEVATIONS

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

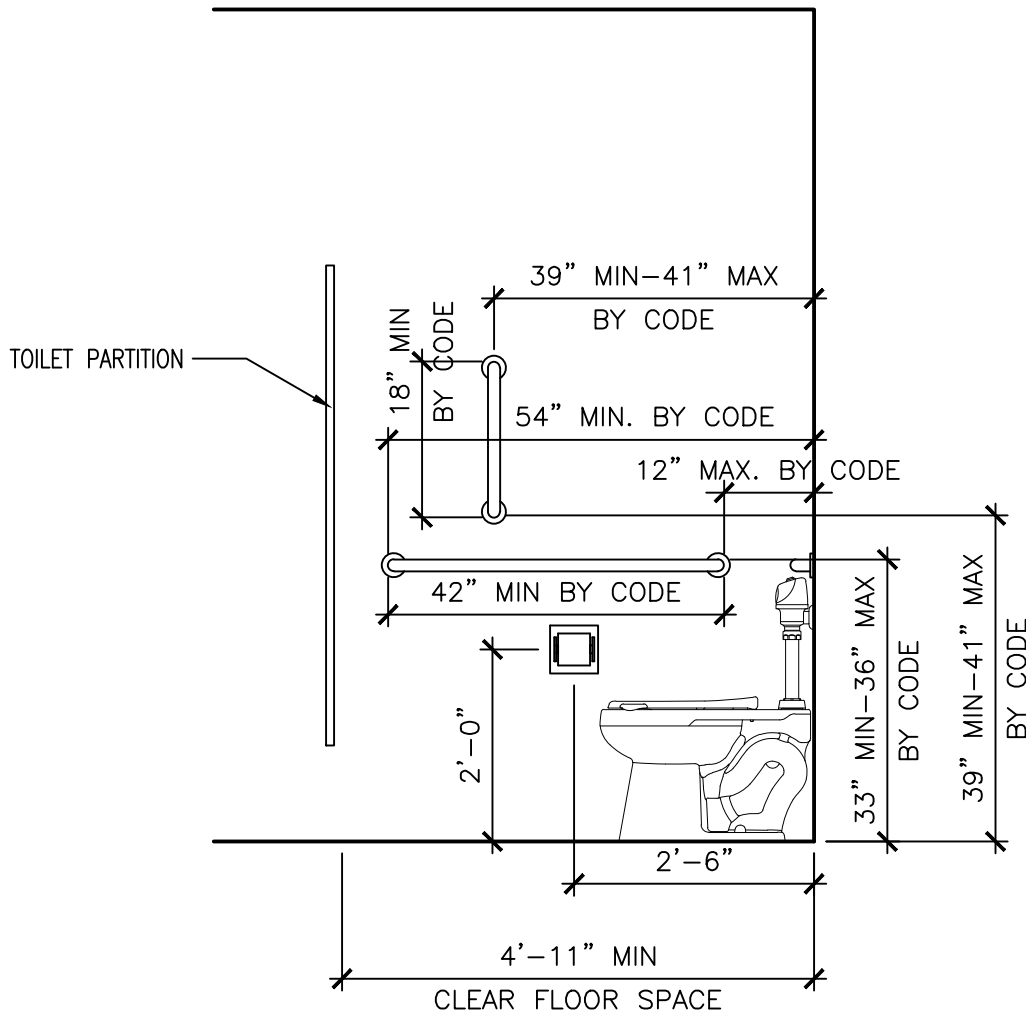
Sheet No.

A5.0



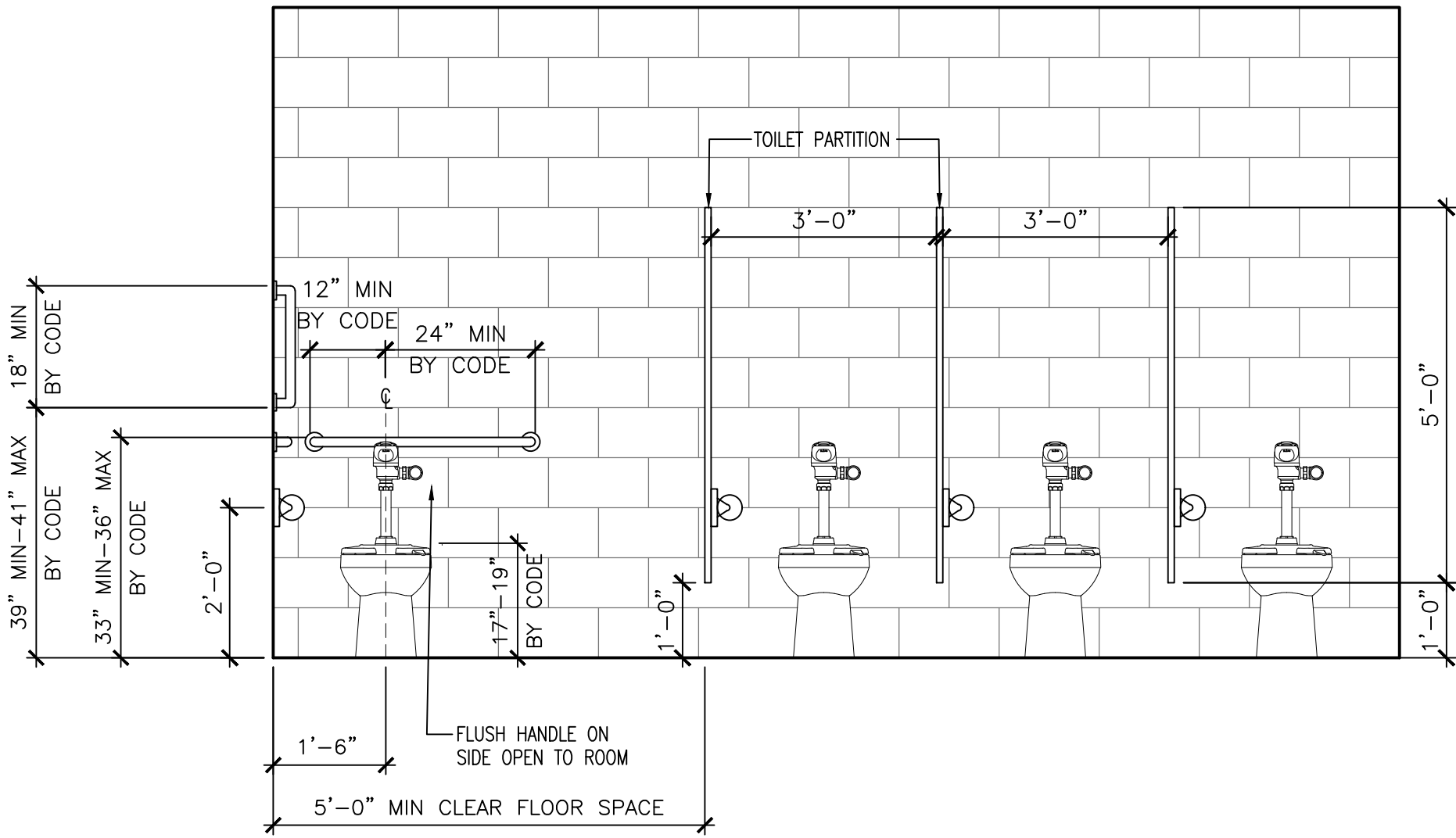
LAVATORY WALL
SCALE: 1/2"=1'0"

3



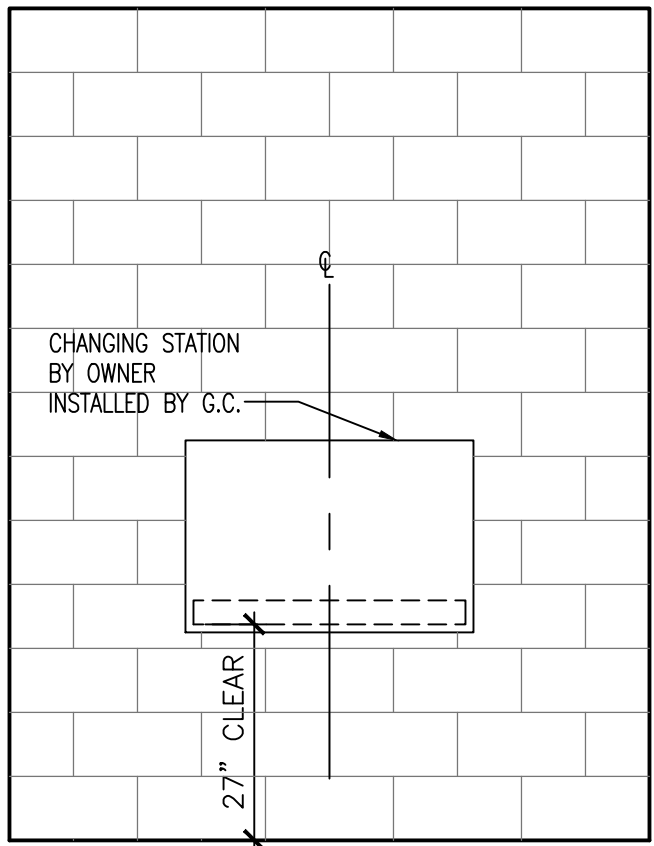
ADA TOILET STALL
SCALE: 1/2"=1'0"

2



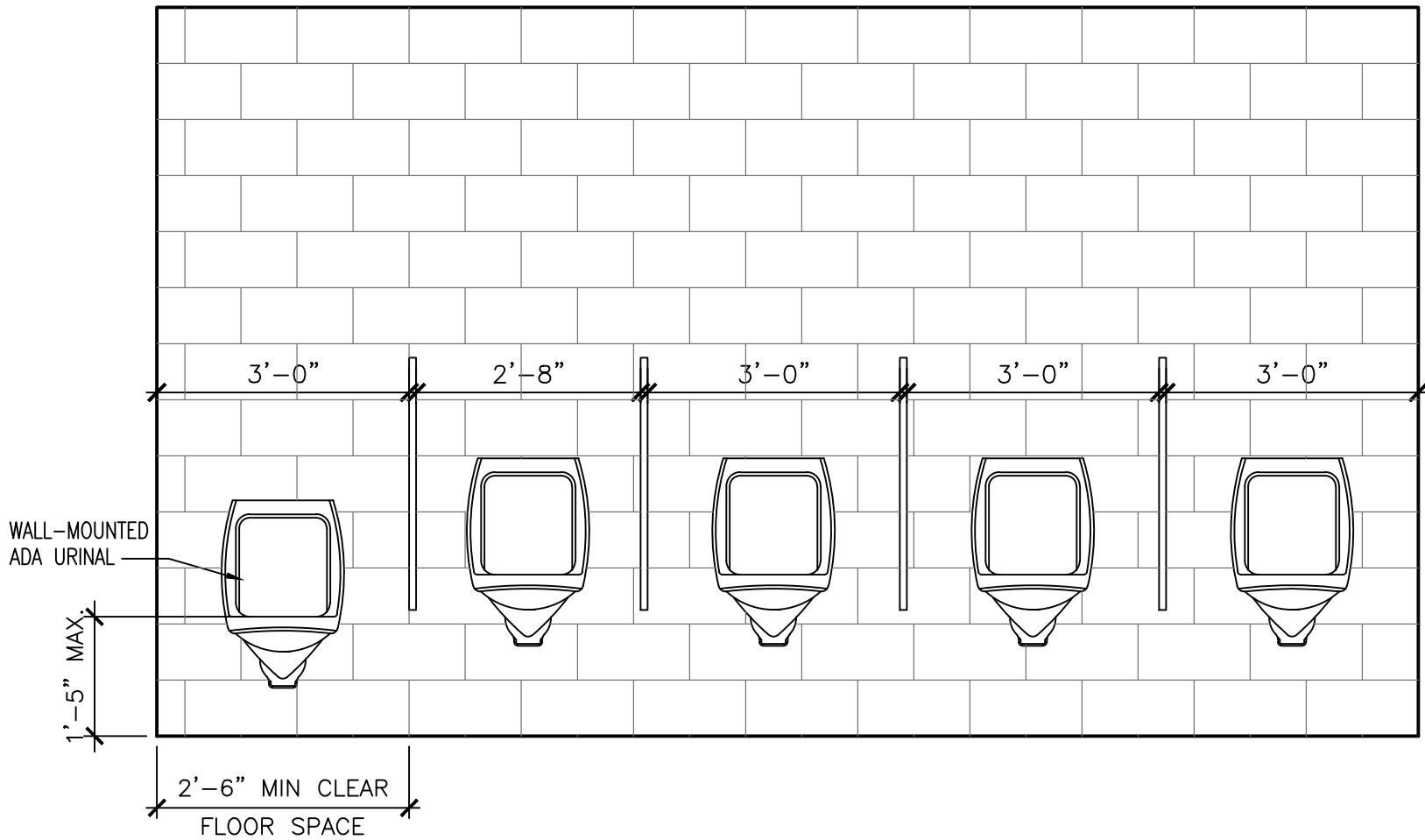
WATER CLOSET WALL
SCALE: 1/2"=1'0"

1



CHANGING STATION
SCALE: 1/2"=1'0"

5



WATER CLOSET WALL
SCALE: 1/2"=1'0"

4

2023-06-30 Bid & Permit Set

NOTES:
1. SEE THE SPECIFICATIONS FOR ACCESSORIES SELECTIONS.
2. SEE THE PLUMBING FIXTURE SCHEDULE FOR TOILET, URINAL, AND LAVATORY SELECTIONS.

THRIVE
ARCHITECTS

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction
600 Labaree St
Watertown, WI

Sheet Title

INTERIOR ELEVATIONS

Drawn by	Checked by
JAJ	DMR

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No.

A5.1

2023-06-30 Bid & Permit Set

38"–48" REACH TO BUTTONS AND TOUCH-FREE SENSORS

ACCESSIBLE HAND DRYER

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

8

17"–19"

2'-4" MIN. KNEE SPACE

3'-0" MAX. SPOUT HEIGHT

ACCESSIBLE DRINKING FOUNTAIN

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

7

3'-8" MAX. FORWARD REACH TO CONTROLS OVER COUNTERTOP OR OBSTRUCTION

4'-0" MAX. FORWARD REACH TO CONTROLS

3'-10" MAX. SIDE REACH TO CONTROLS OVER COUNTERTOP OR OBSTRUCTION

4'-6" MAX. SIDE REACH TO CONTROLS

ACCESSIBLE SOAP DISPENSER

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

6

BRaille SIGN

BRaille SHALL BE 48" MIN & 60" MAX A.F.F.; MEASURED TO BASELINE OF BRaille CELLS.

ACCESSIBLE TOILET ROOM SIGN

SCALE: 1/2"=1'-0" (22x34); 1/4"=1'-0" (11x17)

5

LIGHT FIXTURE

CHANNEL FRAMED MIRROR

2'-10" MAX

1'-3" MIN. BY CODE

2'-6" CLEAR FLOOR SPACE O.C.

3'-4" MAX TO REFLECTIVE SURFACE

WALL HUNG LAV WITH TRAP WRAP

MOTHER'S ROOM

SCALE: 1/2"=1'0"

4

2'-10" MAX

4'-0" CLEAR FLOOR SPACE

FAMILY RESTROOM

SCALE: 1/2"=1'0"

3

LIGHT FIXTURE

CHANNEL FRAMED MIRROR

2'-10" MAX

1'-3" MIN. BY CODE

2'-6" CLEAR FLOOR SPACE O.C.

3'-4" MAX TO REFLECTIVE SURFACE

17"–19" BY CODE

24" MIN BY CODE

12" MIN BY CODE

1'-6" CLEAR FLOOR SPACE

5'-0" MIN CLEAR FLOOR SPACE

2'-0"

33" MIN–36" MAX BY CODE

39" MIN–41" MAX BY CODE

18" MIN BY CODE

WALL HUNG LAV WITH TRAP WRAP

FAMILY RESTROOM

SCALE: 1/2"=1'0"

2

39" MIN–41" MAX BY CODE

33" MIN–36" MAX BY CODE

12" MAX. BY CODE

54" MIN. BY CODE

39" MIN–41" MAX BY CODE

42" MIN BY CODE

2'-0"

4'-8" MIN CLEAR FLOOR SPACE

2'-6"

FAMILY RESTROOM

SCALE: 1/2"=1'0"

1



259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Riverside Park Restrooms

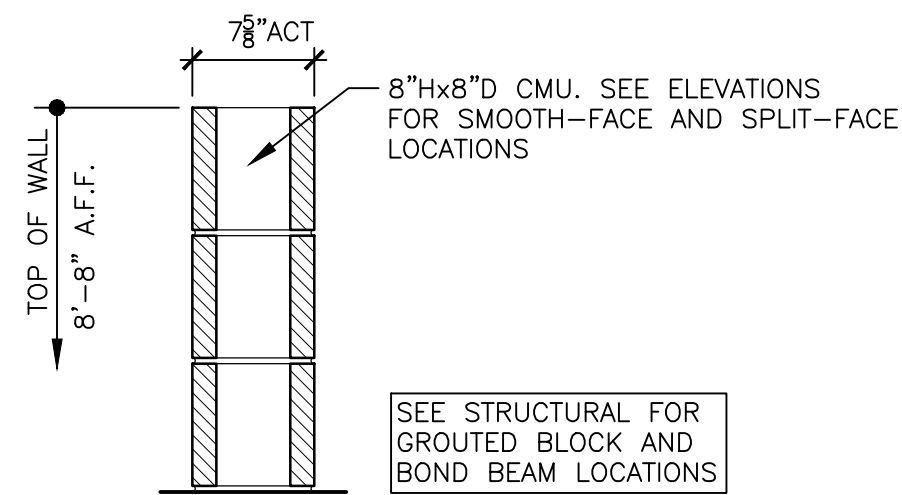
500 Labaree St
Watertown, WI

DOOR, WALL TYPES AND SCHEDULES

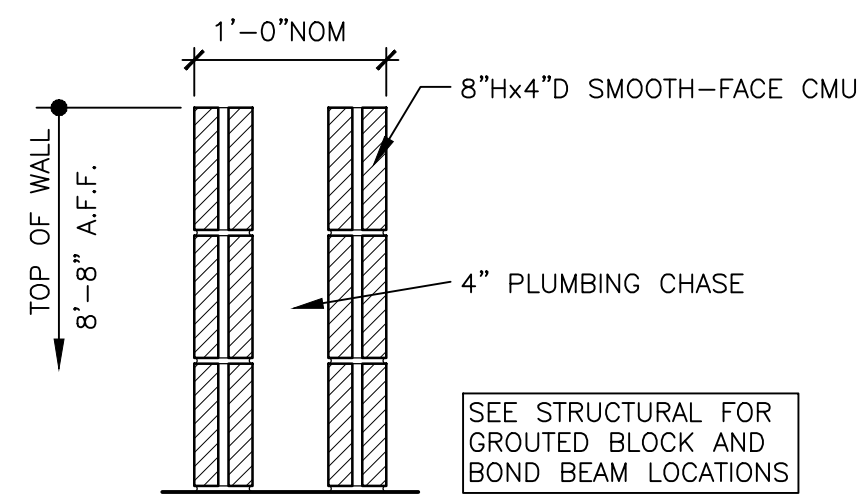
Revisions


[illegible]

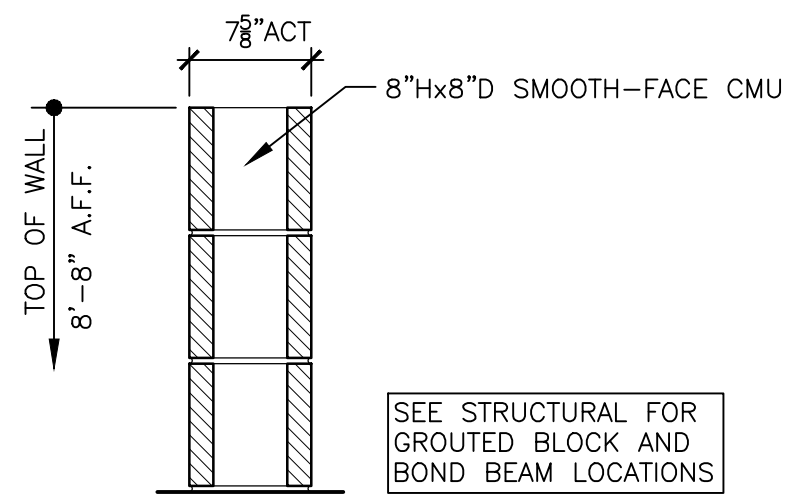
A6.0




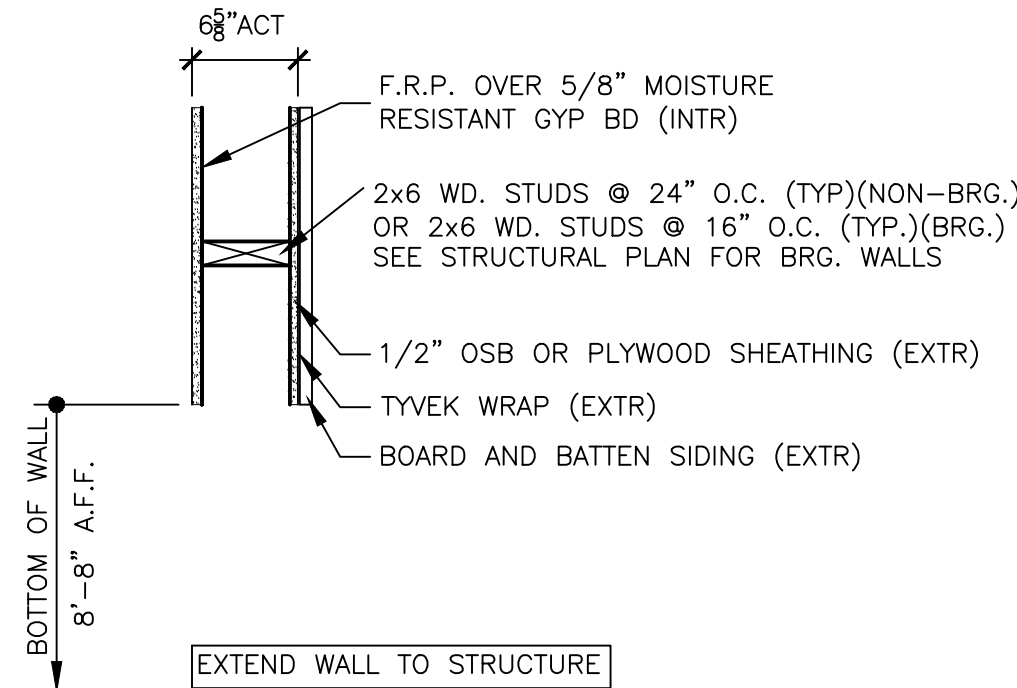
WALL TYPE A



WALL TYPE 

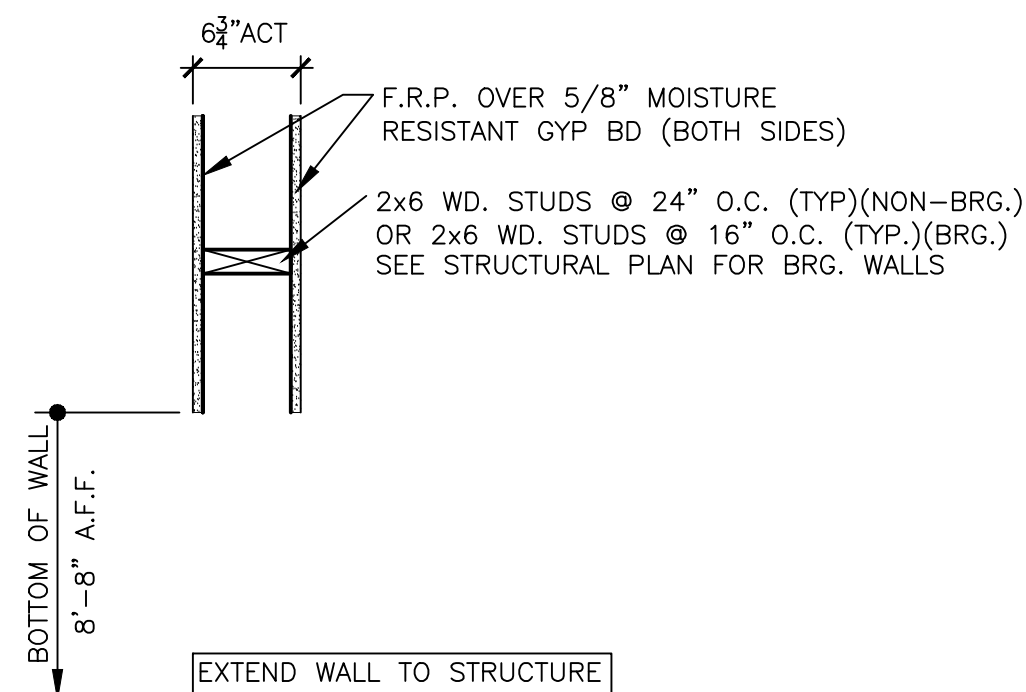


WALL TYPE 



WALL TYPE D

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF
STUD FRAME WALLS ABOVE CMU BLOCK WALLS.



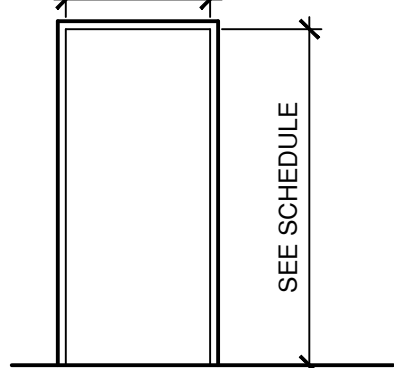
WALL TYPE E

NOTE: SEE DETAIL 2/A1.1 FOR LOCATIONS OF STUD FRAME WALLS ABOVE CMU BLOCK WALLS.

FRAME TYPES

F1

EXTERIOR
SEE
SCHEDULE

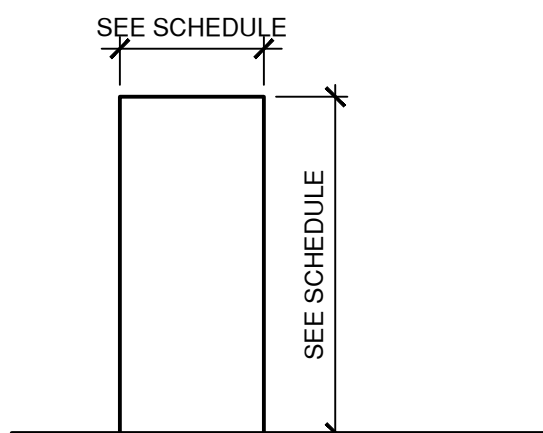


FRAME: HOLLOW METAL
TRIM: NONE
FINISH: PAINTED

DOOR TYPES

D1

EXTERIOR



THICKNESS: 1-3/4"
MATERIAL: HOLLOW METAL
PANEL: FLUSH
FINISH: PAINTED
GLAZING: NONE
HARDWARE: SEE DOOR
SCHEDULE NOTES

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	NO. OF PANELS	SIZE		DOOR TYPE	FRAME TYPE	FIRE RATING	REMARKS
			WIDTH	HEIGHT				
100	FAMILY RESTROOM	1	3'-0"	7'-0"	D1	F1		HG1
101	SOUTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
102	MEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
105	CENTER CHASE	1	3'-0"	7'-0"	D1	F1		HG2
106	WOMEN'S TOILET ROOM ENTRY	1	3'-0"	7'-0"	D1	F1		HG1
109	NORTH CHASE	1	2'-8"	7'-0"	D1	F1		HG2
110	MOTHER'S ROOM	1	3'-0"	7'-0"	D1	F1		HG1

1. G.C. TO SUPPLY ALL DOOR HARDWARE REQUIRED BY CODE.
2. DOOR HARDWARE SHALL COMPLY WITH ICC/ANSI A117.1 SEC 404.2.6 - HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE HARDWARE SHALL BE PLACED AT LEAST 34 INCHES, BUT NOT MORE THAN 48 INCHES ABOVE THE FLOOR SURFACE.
3. COORDINATE REQUIREMENTS OF ELECTRONIC STRIKE WITH OWNER FOR REMOTE/TIMED ACCESS TO PUBLIC DOORS.

EXHAUST FANS (EF)																		
TYPE MARK	MARK	MANUFACTURER	MODEL	SERVICE	LOCATION	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	RPM	BACKDRAFT DAMPER	MOTOR		UNIT ELECTRICAL			WEIGHT (LBS)	SONES	REMARKS
											HP	BHP	VOLTS / PH	STARTER	DISCONNECT			
EF	1	GREENHECK	SQ-100-VG	WOMENS RESTROOM	IN JOIST SPACE	DIRECT	600	0.25	985	MOTORIZED	1/4	0.04	120 / 1Ø	MANUAL	BY MANUFACTURER	45	4.3	1
EF	2	GREENHECK	SQ-100-VG	MENS RESTROOM	IN JOIST SPACE	DIRECT	675	0.25	1046	MOTORIZED	1/4	0.05	120 / 1Ø	MANUAL	BY MANUFACTURER	45	5.0	1
EF	3	GREENHECK	SP-80-VG	FAMILY REST ROOM	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
EF	4	GREENHECK	SP-80-VG	JANITOR'S CLOSET	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
EF	5	GREENHECK	SP-80-VG	MOTHER'S ROOM	CEILING SUSPENDED	DIRECT	75	0.25	935	-	-	-	120 / 1Ø	MANUAL	BY MANUFACTURER	12	0.3	1
1. FAN TO BE PROVIDED WITH ECM ADJUSTABLE SPEED MOTOR. PROVIDE ADJUSTABLE SPEED DIAL IN AN ACCESSIBLE LOCATION ON FAN.																		

LOUVER													
MARK	MANUFACTURER	MODEL	LOCATION	SERVICE	CONSTRUCTION		CFM	SIZE			MAX FREE AREA VELOCITY - FPM	MAX PRESSURE DROP - IN WC	REMARKS
					TYPE	MATERIAL		LENGTH	WIDTH	DEPTH			
L-1	GREENHECK	ESD-403	SEE PLANS	WOMENS RESTROOM	FASTENED	ALUMINUM	750	26"	16"	6"	649	0.1	1, 2, 3
L-2	GREENHECK	ESD-403	SEE PLANS	MENS RESTROOM	FASTENED	ALUMINUM	750	26"	16"	6"	649	0.1	1, 2, 3
L-3	GREENHECK	ESD-202	SEE PLANS	WOMENS RESTROOM	FASTENED	ALUMINUM	625	26"	16"	6"	700	0.1	1, 2, 3
L-4	GREENHECK	ESD-403	SEE PLANS	MENS RESTROOM	FASTENED	ALUMINUM	700	26"	16"	6"	606	0.1	1, 2, 3
1. COORDINATE COLOR WITH ARCHITECT													
2. PROVIDE WITH INSECT SCREEN													
3. LOUVERS WILL BE PROVIDED BY THE GENERAL CONTRACTOR UNDER DIVISION 08 90 00. THE SELECTIONS ABOVE ARE FOR MECHANICAL PERFORMANCE CRITERIA ONLY.													

DIFFUSERS AND GRILLES										
MARK	MANUFACTURER	MODEL	TYPE	SERVICE	MATERIAL	CONFIGURATION			FINISH	REMARKS
						BLADES		MOUNTING / FRAME		
						SPACING (IN)	ANGLE			
S1	TITUS	TMR	ROUND CONICAL	SUPPLY	STEEL	-	-	LAY-IN	WHITE	1
E1	TITUS	350FL	SINGLE DEFLECTION	EXHAUST	STEEL	3/4"	35°	LAY-IN	WHITE	1
NOTE: SEE PLANS FOR NECK SIZES										
1. ARCHITECT TO CONFIRM COLOR SELECTION										

Sequence of Operation: Exhaust fans and motor operated control dampers

Note: All exhaust fans will take an occupancy input from the lighting system. In all cases the fan shall receive an occupied signal from the associated zone lighting occupancy sensor. The method of delivery of the occupancy status from the lighting system may vary slightly from zone to zone. If there is no occupancy sensor in a specific zone or space then the exhaust fan operation should be indexed to turn on and off in sequence with the manual light switch in that room or zone.

Lighting System Interface:
The lighting occupancy sensor shall send a signal from the auxiliary contact of the occupancy sensor to the HOA controller of inline exhaust fans EF-1 and EF-2. Fans should be programmed to run for 10 minutes after the lighting occupancy sensor has turned off the lights to facilitate adequate removal of odors. If communication is lost with the lighting system, the exhaust fan shall continue to operate until the programmed time out of 10 minutes after the room has switched to unoccupied mode.

The lighting occupancy sensor shall send a direct 0-10V signal from the auxiliary contact of the occupancy sensor directly to the ECM motor of ceiling mounted exhaust fans EF-3 and EF-5. Fans should operate when lighting is on and turn off when lighting occupancy sensors times out, switching the room to an unoccupied set point. This timeout shall be no longer than 30 minutes.

Ceiling mounted EF-4 shall be controlled directly by the manual light switch in the Janitor's Closet.

Occupancy Mode: The occupancy mode shall be communicated to each exhaust fan via a binary input. Valid Occupancy modes for the exhaust fans shall be:

Occupied: Normal operating mode for occupied spaces during normal operation. When the lighting sensor is in the occupied mode the associated exhaust fan shall be energized and shall maintain the scheduled space airflow. When a fan is energized the associated motorized dampers shall open.

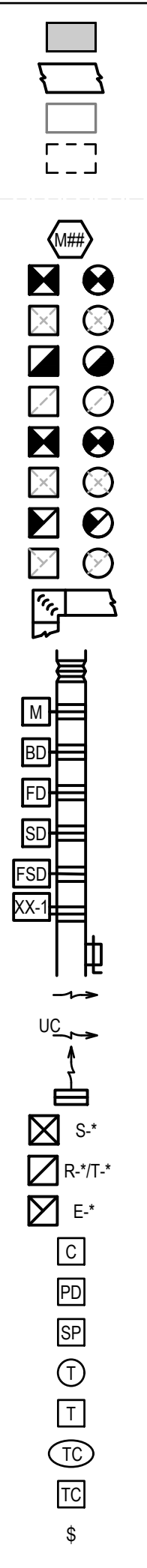
Unoccupied Standby: Mode used for unoccupied spaces. The occupancy sensor integral to the lighting system shall be used to indicate that the space is occupied or unoccupied. In the standby mode the exhaust fan airflow setpoint will be reduced to the minimum CFM, scheduled for 0 CFM. When the fan enters unoccupied mode the motor shall shut off and the associated motorized dampers shall close.

Motorized Dampers: Each fan shall be provided with a motorized control damper. Control dampers are intended to prevent backflow of outdoor air into the exhaust system when the system is de-energized.

Exhaust: Each exhaust fan will have an associated motorized control damper. When the fan is energized the associated motorized damper shall open. The damper shall close when the fan shuts off. Actuators shall be selected so that these motorized exhaust dampers fail open.

Intakes: Each outdoor air louver will have an associated motorized control damper. When any one of the associated exhaust fans are energized that the associated motorized damper at the intake louver shall open. The intake damper shall close when all associated exhaust dampers prove closed. Actuators shall be selected so that motorized intake dampers fail closed.

Heating Control:
Heat is not provided by this system. The intent is that the domestic water systems will be shut off and drained in advance of freezing or sub-freezing conditions.

ABBREVIATIONS		HVAC LEGEND	
AFF AP BOD BOP CA COND CHWR CHWS CR RETURN CWR CWS DE DN EA GSHXR RETURN GSHXS SUPPLY HPS HWR HWS KE LPS MPS NC NG NO OA RA RCOVR RCOVS REL RL RS SA SOLR SOLR TA VFD X	ABOVE FINISHED FLOOR ACCESS PANEL BOTTOM OF DUCT BOTTOM OF PIPE COMBUSTION AIR CONDENSATE DRAIN CHILLED WATER RETURN CHILLED WATER SUPPLY LOW PRESSURE STEAM CONDENSATE CONDENSER WATER RETURN CONDENSER WATER SUPPLY DISHWASHER EXHAUST DOWN EXHAUST AIR GROUND SOURCE HEAT EXCHANGER GROUND SOURCE HEAT EXCHANGER HIGH PRESSURE STEAM HOT WATER RETURN HOT WATER SUPPLY KITCHEN EXHAUST LOW PRESSURE STEAM MEDIUM PRESSURE STEAM NORMALLY CLOSED NATURAL GAS NORMALLY OPEN OUTSIDE AIR RETURN AIR ENERGY RECOVERY RETURN ENERGY RECOVERY SUPPLY RELIEF AIR REFRIGERATION LIQUID REFRIGERATION SUCTION SUPPLY AIR SOLAR THERMAL RETURN SOLAR THERMAL SUPPLY TRANSFER AIR VARIABLE FREQUENCY DRIVE EXISTING	 NEW HVAC EQUIPMENT NEW DUCTWORK EXISTING MECHANICAL COMPONENT DEMOLISHED MECHANICAL COMPONENT MECHANICAL EQUIPMENT SERVICE AREA KEY NOTE SUPPLY AIR DUCT UP SUPPLY AIR DUCT DOWN RETURN AIR DUCT UP RETURN AIR DUCT DOWN OUTSIDE AIR DUCT UP OUTSIDE AIR DUCT DOWN EXHAUST AIR DUCT UP EXHAUST AIR DUCT DOWN ELBOW WITH TURNING VANES FLEX DUCT MOTORIZED DAMPER BACK DRAFT DAMPER FIRE DAMPER SMOKE DAMPER COMBINATION FIRE/SMOKE DAMPER DAMPER WITH SEQUENCING NUMBER BALANCING DAMPER AIR FLOW INDICATOR DOOR UNDER CUT TRANSFER/DOOR GRILLE NEW SUPPLY DIFFUSER NEW RETURN/TRANSFER GRILLE NEW EXHAUST GRILLE CO2 SENSOR PRESSURE DIFFERENTIAL SENSOR STATIC PRESSURE CONTROLLER THERMOSTAT TEMPERATURE SENSOR THERMOSTAT /CO2 SENSOR TEMPERATURE /CO2 SENSOR WALL SWITCH CONTROL WIRE POINT OF CONNECTION DUCT OFFSET EQUIPMENT FLOOR TAG EQUIPMENT FLOOR TAG NECK SIZE TAG	RTU X-X VAV X-X "XXX" CFM TYP. # HVAC EQUIPMENT TAG ELECTRICALLY POWERED HVAC EQUIPMENT TAG NOT ELECTRICALLY POWERED DIFFUSER/GRILLE TAG

GENERAL NOTES	
1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.	
2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.	
3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.	
4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.	
5. COORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES WITH REFLECTED CEILING PLAN.	
6. ALL BRANCH DUCTS SHALL MATCH DIFFUSER NECK SIZES UNLESS OTHERWISE NOTED.	
7. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT.	
8. KEYNOTES PERTAIN ONLY TO THE DRAWING THEY ARE LOCATED ON.	
9. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS.	
10. ALL HOT WATER BRANCH LINES ARE 3/4" UNLESS NOTED OTHERWISE.	
11. MAINTAIN 10' MINIMUM DISTANCE FROM OUTSIDE AIR INTAKE TO ANY EXHAUST OR PLUMBING VENTS.	
12. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'-0" IN LENGTH.	
13. ALL SUPPLY AND RETURN DUCTWORK IN UNINSULATED ATTIC SPACE SHALL BE WRAPPED WITH 3" INSULATION.	
14. CLEAN ALL EXISTING DUCTWORK, COILS AND DIFFUSERS DESIGNATED TO REMAIN WITHIN THE PROJECT'S SCOPE OF WORK.	
15. REMOVAL AND REINSTALLATION OF EXISTING CEILING IS REQUIRED. REPLACE ALL DAMAGED CEILING WITH NEW, EQUAL TO EXISTING.	
MECHANICAL SHEET INDEX	
NUMBER	SHEET NAME
M0.1	MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS
M1.0	MECHANICAL FLOOR PLAN

Architect
259 South Street, Suite A WAUKESHA, WI 53186 p: 833-380-6180

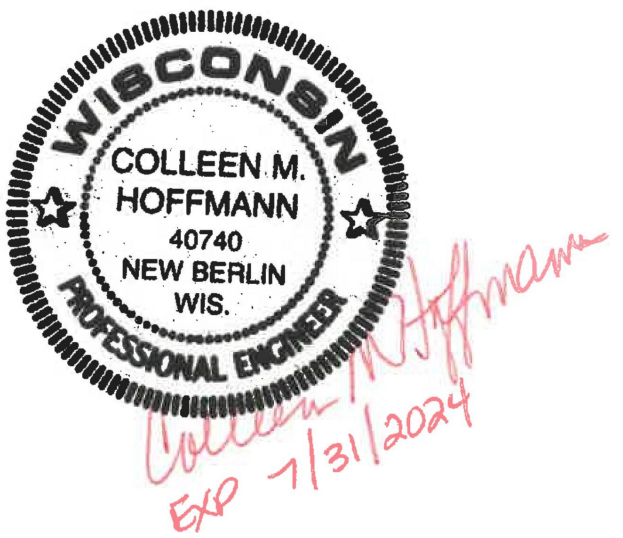
Project Info. — 22005
Riverside Park Restrooms
New Construction
600 Labaree St Watertown, WI

Sheet Title —
MECHANICAL NOTES, LEGEND, AND ABBREVIATIONS

Drawn by	Checked by

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No. —
M0.1



2023-06-30 Bid & Permit Set

KEY NOTES	
M1	ROUTE DUCT UP AND INTO JOIST SPACE.
M2	CONTRACTOR TO ADD BALANCING DAMPERS FOR EACH GRILLE.

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
P: 833-380-6180

Project Info. — 22005
Riverside Park
Restrooms
New Construction
600 Labaree St
Watertown, WI

Sheet Title

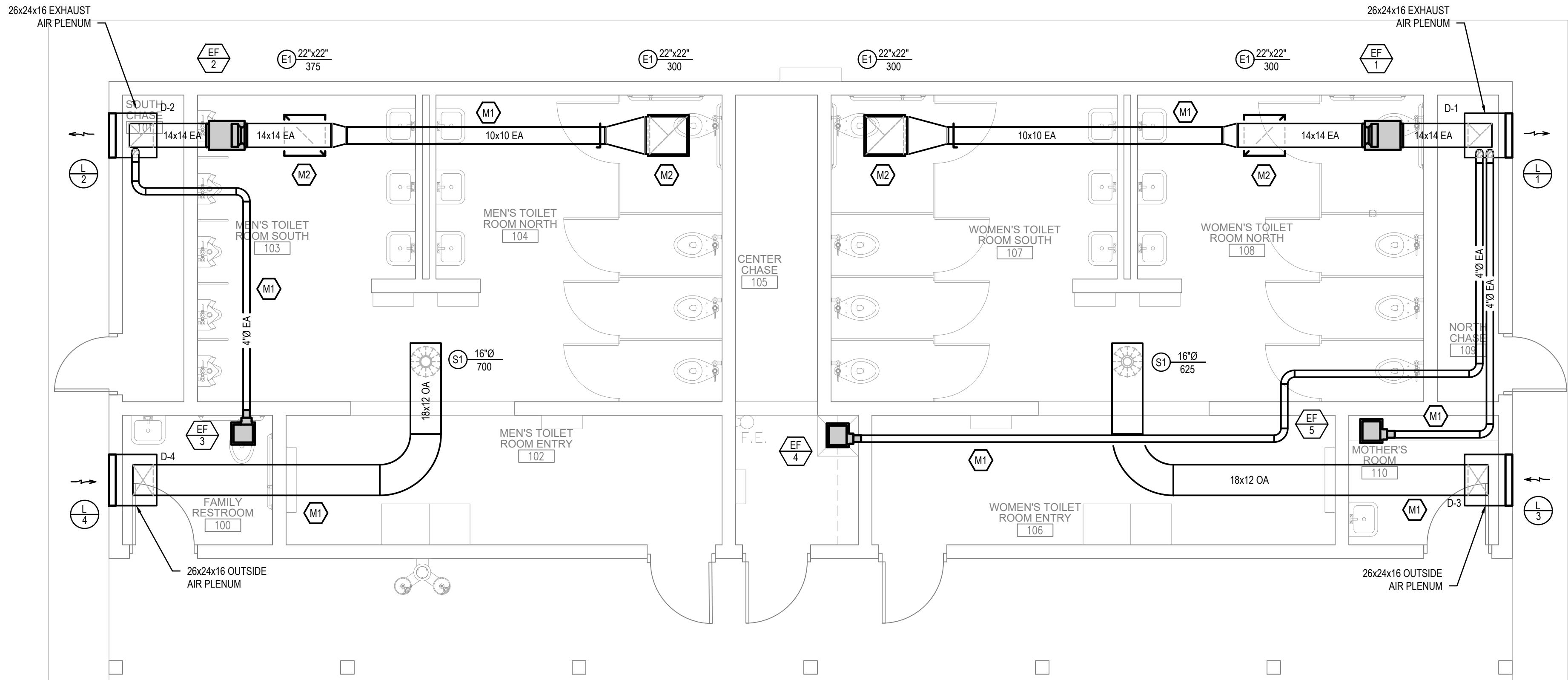
MECHANICAL
FLOOR PLAN

Drawn by	Checked by

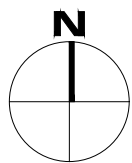
Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No.

M1.0



1 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"






























2023-06-30 Bid & Permit Set

ABBREVIATIONS			
AC	ALTERNATING CURRENT	NIC	NOT INCLUDED IN CONTRACT
AFB	ABOVE FINISHED FLOOR	NL	NIGHT LIGHT
AFG	ABOVE FINISHED GRADE	NO	NORMALLY OPEN
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
AIC	AMPERE INTERRUPTING CAPACITY		
ALT	ALTERNATE	OC	ON CENTER
AMP	AMPERE	OD	OUTSIDE DIAMETER
AOR	AREA OF REFUGE	OL	OVERLOAD
AORM	AREA OF REFUGE MASTER STATION	OS	OPTIONAL STANDBY
AORR	AREA OF REFUGE REMOTE STATION		
ATS	AUTOMATIC TRANSFER SWITCH	P	POLE
AUTO	AUTOMATIC	PA	PUBLIC ADDRESS
AV	AUDIO VISUAL	PB	PUSHBUTTON
		PC	PLUMBING CONTRACTOR
BLDG	BUILDING	PE	PHOTOELECTRIC CELL, PHOTOEYE
BOT	BOTTOM	PED	PEDESTAL
		PEND	PENDANT
C	CONDUIT	PF	POWER FACTOR
CAB	CABINET	PH	PHASE
CATV	COMMUNITY ANTENNA TELEVISION	PL	PILOT LIGHT
CB	CIRCUIT BREAKER	PNL	PANEL
CCTV	CLOSED CIRCUIT TELEVISION	PWR	POWER
CD	CANDELA OR CONSTRUCTION DOCUMENT		
CKT	CIRCUIT	RC	REMOTE CONTROL
CLG	CEILING	RCP	REFLECTED CEILING PLAN
COAX	COAXIAL CABLE	REC	RECESSED
CP	CONTROL PANEL	RECPT	RECEPTACLE
CT	CURRENT TRANSFORMER		
CU	COPPER	SCC	SHORT CIRCUIT CAPACITY
		SF	SQUARE FOOT (FEET)
dB	DECIBEL	SPD	SURGE PROTECTION DEVICE
DB	DIRECT BURIAL	SPEC	SPECIFICATION
		SPST	SINGLE POLE, SINGLE THROW
DEMO	DEMOLITION	SS	SWITCH STATION
DISC	DISCONNECT	SW	SWITCH
DIST	DISTRIBUTION		
DM	DIMMING	T	TAMPERPROOF
DN	DOWN	TC	TIMECLOCK
DPDT	DOUBLE POLE, DOUBLE THROW	TV	TELEVISION
DPST	DOUBLE POLE, SINGLE THROW	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
DS	DAYLIGHT SENSOR	TYP	TYPICAL
DWG	DRAWING		
		UL	UNDERWRITERS LABORATORY
EBU	EMERGENCY BATTERY UNIT	UNV	UNIVERSAL
EC	ELECTRICAL CONTRACTOR	UPS	UNINTERRUPTIBLE POWER SUPPLY
ELEV	ELEVATOR		
EM	EMERGENCY	V	VOLT
ENCL	ENCLOSURE	VA	VOLT AMPERE
ER	ELEVATOR RECALL	VAC	VOLT AMPERE CURRENT
ERL	EXISTING TO BE RELOCATED	VFD	VARIABLE FREQUENCY DRIVE
ES	ELECTRIC STRIKE		
ETR	EXISTING TO REMAIN	W	WATT OR WIRE
		WAP	WIRELESS ACCESS POINT
FA	FIRE ALARM	WP	WEATHERPROOF
FAAP	FIRE ALARM ANNUNCIATOR PANEL		
FACP	FIRE ALARM CONTROL PANEL	X-	EXISTING
FC	FOOT-CANDLE	XFER	TRANSFER
FLA	FULL LOAD AMPERE	XFMR	TRANSFORMER
FP	FIRE PROTECTION		
FSS	FUSED SAFETY SWITCH		
FVNR	FULL VOLTAGE NON-REVERSING		
FVR	FULL VOLTAGE REVERSING		
GEN	GENERATOR		
GRD	GROUND		
GC	GENERAL CONTRACTOR		
GFI / GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
HID	HIGH INTENSITY DISCHARGE		
HOA	HAND-OFF-AUTO		
HP	HORSE POWER		
HZ	HERTZ		
IG	INSULATED GROUND		
K	KEY OPERATED		
JB	JUNCTION BOX		
KV	KILOVOLT		
KVA	KILOVOLT AMPERE		
KW	KILOWATT		
KWH	KILOWATT HOUR		
LCP	LIGHTING CONTROL PANEL		
LED	LIGHT EMITTING DIODE		
LF	LINEAR FOOT (FEET)		
LM	LUMEN		
LPS	LOW PRESSURE SODIUM		
LRA	LOCKED ROTOR AMPERAGE		
LTG	LIGHTING		
LV	LOW VOLTAGE		
MAG	MAGNETIC STARTER		
MAN	MANUAL STARTER		
MATV	MASTER ANTENNA TELEVISION SYSTEM		
MC	MECHANICAL CONTRACTOR		
MCA	MINIMUM CIRCUIT AMPACITY		
MCB	MAIN CIRCUIT BREAKER		
MFG	MANUFACTURER		
MH	MANHOLE		
MOCB	MAXIMUM OVERCURRENT PROTECTION		
MLO	MAIN LUG ONLY		
MTD	MOUNTED		
MTS	MANUAL TRANSFER SWITCH		
MV	MEDIUM VOLTAGE		
N	NEUTRAL		
NA	NOT APPLICABLE		
NAC	NOTIFICATION APPLIANCE CIRCUIT		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRICAL CODE		
NFPA	NATIONAL FIRE PROTECTION AGENCY		
NFSS	NON-FUSED SAFETY SWITCH		

LIGHTING LEGEND

\$	SWITCH
↓SS-	SWITCH STATION
OS →	SWITCH-BOX OCCUPANCY SENSOR
OS	CEILING MOUNT OCCUPANCY SENSOR
ODS	COMBINATION CEILING MOUNT OCCUPANCY DAYLIGHT SENSOR
OS	CEILING MOUNT DAYLIGHT SENSOR
VS →	SWITCH-BOX VACANCY SENSOR
VS	CEILING MOUNT VACANCY SENSOR
PC	EXTERIOR PHOTOELECTRIC SWITCH
▬	SURFACE MOUNT LIGHT FIXTURE
▬	SURFACE MOUNT LIGHT FIXTURE - EMERGENCY
— — —	STRIP/INDUSTRIAL FIXTURE
—X—	LINEAR WALL BRACKET
⊙	WALL MOUNTED FIXTURE
⊘	RECESSED FIXTURE
⊕	CEILING MOUNTED FIXTURE
○ □	POLE MOUNT LUMINAIRE
⊕	BOLLARD
⌒	FLOOD LIGHT
⊗	CEILING OR WALL MOUNTED EXIT, SINGLE FACE
⌒ ⊕	EMERGENCY WALL PACK (EBU)
⌒	EMERGENCY WALL PACK REMOTE HEAD

GENERAL LEGEND	
	NEW ELECTRICAL COMPONENT
	EXISTING ELECTRICAL COMPONENT
	DEMOLISHED ELECTRICAL COMPONENT
	KEY NOTE
	TYPICAL CIRCUIT
	UNSWITCHED CIRCUIT
POWER LEGEND	
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE 6" ABOVE COUNTER OR BACKSPLASH OR AT HEIGHT INDICATED
	DOUBLE DUPLEX RECEPTACLE
	SPECIAL PURPOSE OUTLET
	DUPLEX FLOOR OUTLET
	DOUBLE DUPLEX FLOOR OUTLET
	PUSH BUTTON
	JUNCTION BOX
	CIRCUIT BREAKER
	GROUND
	TRANSOCKET
	SURFACE MOUNT PANEL
	RECESSED PANEL
	METER
	NON-FUSED DISCONNECT
	FUSED DISCONNECT
	MAGNETIC STARTER
	COMBINATION STARTER
	MOTOR
	POWER ASSIST OPERATOR PUSH PLATE

GENERAL NOTES	
1.	DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED COMPONENTS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL FURNISH AND INSTALL MATERIAL EQUIPMENT, DEVICES, FIXTURES. SERVICE REQUIREMENTS NECESSARY TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS, FOR A COMPLETE AND FUNCTIONAL INSTALLATION AND SHALL MAINTAIN APPROPRIATE CLEARANCES.
2.	ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
3.	CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
4.	THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
5.	THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS OF OTHER TRADES AND INCLUDE IN THEIR BID ANY ADDITIONAL WORK REQUIRED BY THIS TRADE.
6.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT SWITCHES, POWER, AND COMMUNICATIONS OUTLETS. ALL OUTLETS SHALL BE MOUNTED VERTICALLY UNLESS OTHERWISE NOTED. COORDINATE ALL FINAL DEVICE REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION.
7.	ALL CONDUITS SHOULD BE SUPPORTED IN COMPLIANCE WITH CODE REQUIREMENTS AND INSTALLED IN A MANNER AS TO AVOID MINIMUM INTERFERENCE WITH OTHER TRADES. ALL CONDUITS ABOVE CEILING SHALL BE RIGIDLY SUPPORTED BY SUITABLE HANGERS FROM THE STRUCTURAL SLAB DECK OR FRAMING ABOVE INDEPENDENT OF THE CEILING, CEILING SUPPORT SYSTEM AND OTHER TRADE COMPONENTS. ALL CONDUITS SHALL BE CONCEALED UNLESS OTHERWISE NOTED ON DRAWINGS.
8.	FIRE RATED SEALS SHALL BE PROVIDED FOR ALL CONDUIT PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS.
9.	CONTRACTOR SHALL VERIFY ALL EQUIPMENT CONNECTION CONFIGURATIONS BEFORE PURCHASE. ALL DEVICES SHOWN ARE FOR REFERENCE ONLY, TO COMMUNICATE DESIGN INTENT, FINAL LOCATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION. THIS NOTE SHALL APPLY TO, BUT NOT BE LIMITED TO, RECEPTACLES, SWITCHES, DATA PORTS, AUDIOVIDEO DEVICES, AND TELEPHONE JACKS.
10.	THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL ABOVE CEILING REQUIREMENTS (PLENUM, NON-PLENUM, AIR HANDLING, ETC.) AS REQUIRED BY LOCAL AUTHORITY BEFORE THE INSTALLATION AND PURCHASE OF ELECTRICAL EQUIPMENT, MATERIALS AND DEVICES, WIRING, CABLEING, AND THE ORDERING OF LIGHTING FIXTURES.
11.	CONDUCTOR SIZES INDICATED ARE MINIMUM SIZES BASED ON 80°C COPPER CONDUCTOR 100 AMPS OR LESS AND 75°C COPPER CONDUCTOR GREATER THAN 100 AMPS. AMPACITIES OF CONDUCTORS DO NOT TAKE VOLTAGE DROP INTO CONSIDERATION. CONTRACTOR SHALL SIZE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS, OR COMBINATION OF SUCH LOADS, AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5 PERCENT, TO PROVIDE REASONABLE EFFICIENCY OF OPERATION.
ELECTRICAL SHEET INDEX	
NUMBER	SHEET NAME
E0.1	ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS
E1.0	ELECTRICAL SITE PLAN
E2.0	ELECTRICAL LIGHTING PLAN
E3.0	ELECTRICAL POWER & SYSTEMS FLOOR PLAN
E4.0	ELECTRICAL RISER & SCHEDULES

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park Restrooms

New Construction

600 Labaree St
Watertown, WI

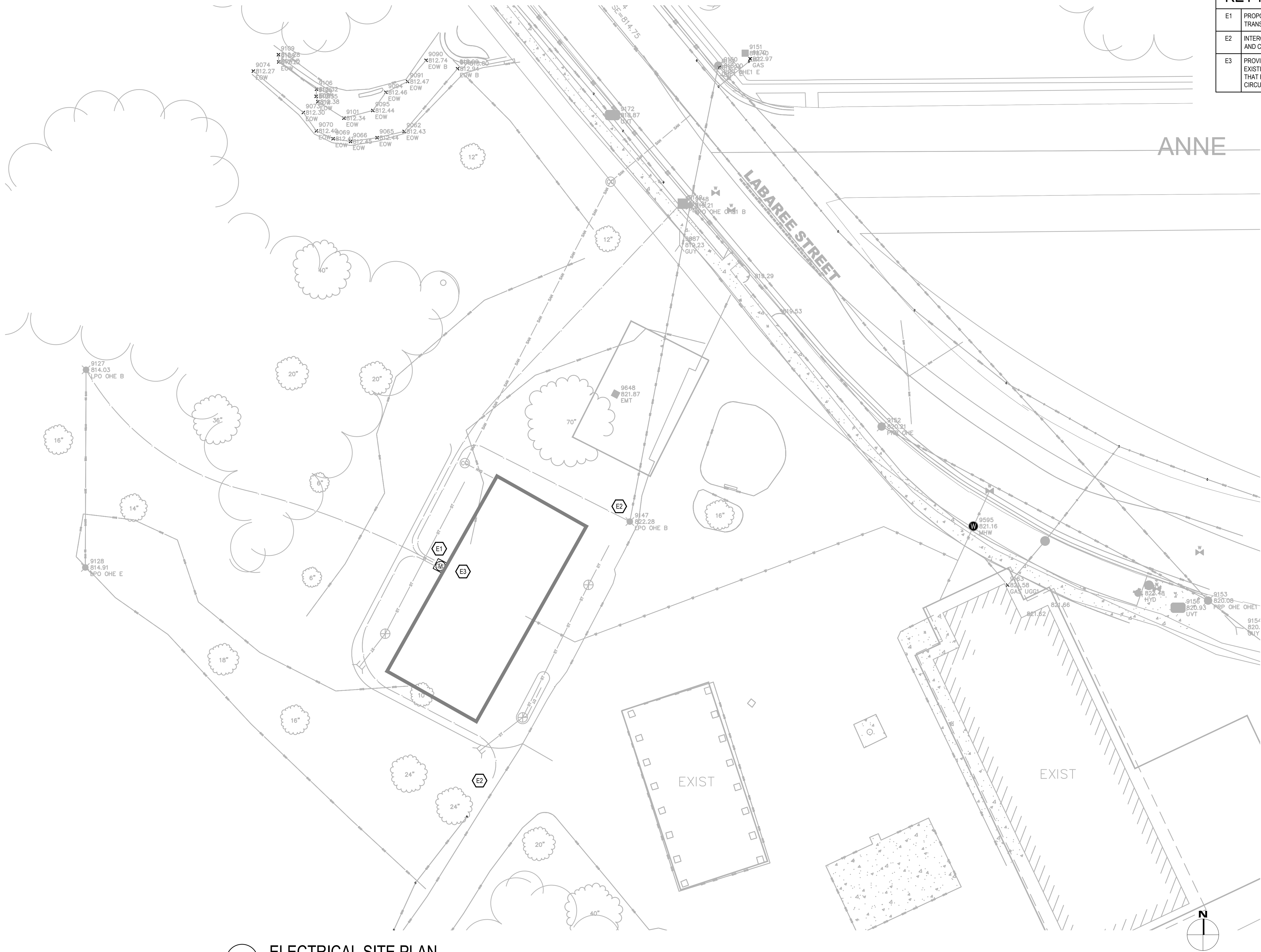
ELECTRICAL NOTES, LEGEND, AND ABBREVIATIONS

Drawn by	Checked by

[illegible]

Sheet No. _____

E0.1



KEY NOTES	
E1	PROPOSED LOCATION OF NEW 240V/120V, 100A SERVICE TRANSOCKET. COORDINATE WITH UTILITY.
E2	INTERCEPT AND REROUTE EXISTING ELECTRICAL CONDUIT AND CABLE AROUND NEW BUILDING.
E3	PROVIDE NEW 42 CIRCUIT, 240/120V PANELBOARD. EXTEND EXISTING CIRCUITS FROM EXISTING PANEL BEING REMOVED THAT REMAIN TO NEW PANEL. VERIFY IN FIELD WHICH CIRCUITS ARE TO REMAIN.

Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005

Riverside Park
Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

ELECTRICAL
SITE PLAN

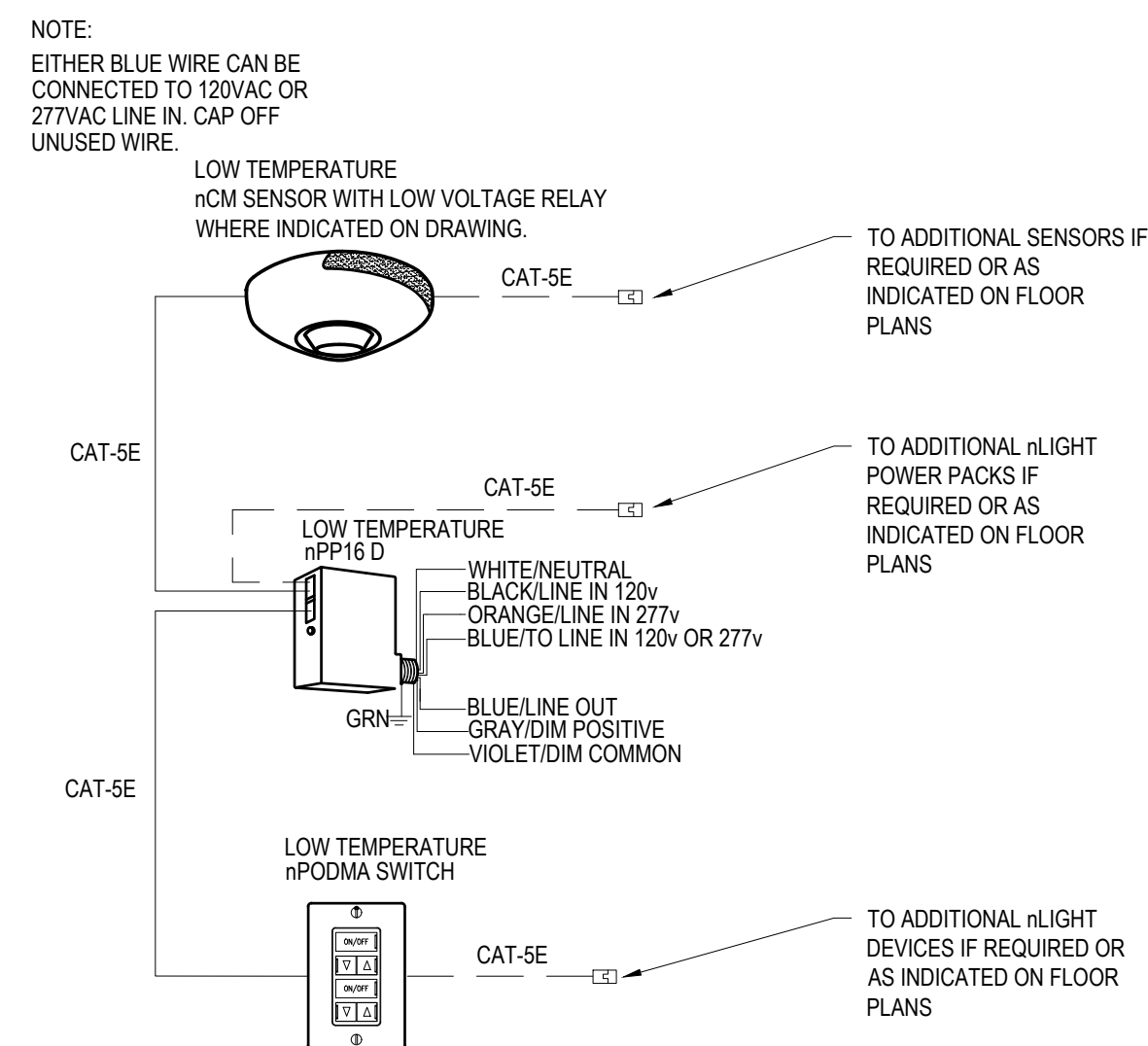
Drawn by	Checked by

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

2023-06-30 Bid & Permit Set

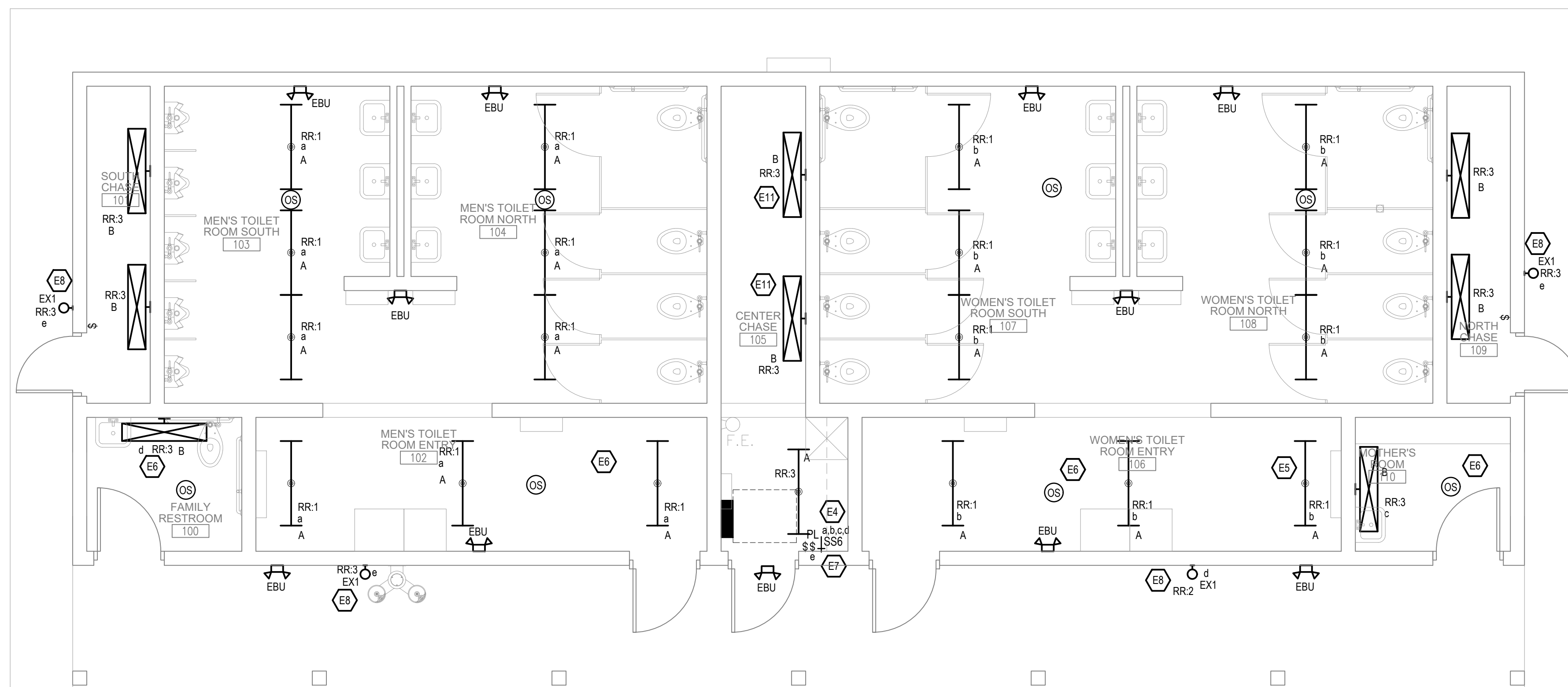
Sheet No.

E1.0



TYPICAL nLIGHT 0-10V DIMMING WIRING DIAGRAM

N.T.S.



1 ELECTRICAL LIGHTING FLOOR PLAN

SCALE: 1/4" = 1'-0"

SHEET NOTES

1. EMERGENCY BATTERY UNITS SHALL BE CIRCUITED TO THE UNSWITCHED PORTION OF THE NEAREST LIGHTING BRANCH CIRCUIT SERVING THE IMMEDIATE AREA.

KEY NOTES

- | | |
|----|--|
| E4 | MANUAL SWITCH IS TO SERVE LOCAL ELECTRICAL/MECHANICAL ROOM. SS6 IS TO OVERRIDE INTERIOR TOILET LIGHTS AND THE OTHER MANUAL PILOT SWITCH IS TO OVERRIDE EXTERIOR LIGHTS. SWITCHES SHALL BE LABELED INTERIOR LIGHTING AND EXTERIOR LIGHTING. SS6 SHALL BE 4 ZONE DIMMING SWITCH. |
| E5 | LIGHT FIXTURE TYPE A TO BE MOUNTED TO BOTTOM OF CEILING UNLESS INDICATED OTHERWISE. |
| E6 | PROVIDE AUXILIARY CONTACT FOR FAN CONTROL. SWITCH DOES NOT CONTROL FAN. |
| E7 | ZONE LOW VOLTAGE SWITCH, ONE CONTROL FOR EACH TOILET ROOM. |
| E8 | BOTTOM OF FIXTURE SHALL BE 80" AFF. |

Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. — 22005 —

Riverside Park Restrooms

New Construction

600 Labaree St
Watertown, WI

Sheet Title

ELECTRICAL LIGHTING PLAN

Drawn by	Checked by
----------	------------

— Revisions —

[illegible]

Sheet No. —

E2.0



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS.

2023-06-30 Bid & Permit Set

NOTES:

1. GFI BREAKER
2. SHUNT TRIP BREAKER

REMARKS:

- A. ELECTRICAL CONTRACTOR TO PROVIDE PROPERLY RATED FUSED DISCONNECT FUSED PER EQUIPMENT NAMEPLATE WITHIN SIGHT OF EQUIPMENT, UNLESS OTHERWISE NOTED IN THE MECHANICAL DRAWINGS.
- B. REFER TO MECHANICAL SHEETS FOR TYPE OF CONTROLLERS PROVIDED WITH THE HVAC EQUIPMENT. CONTROLLER TO BE WIRED BY EC UNLESS INDICATED OTHERWISE

NOTES:

- 1. EXHAUST FANS ARE CONTROLLED VIA CONTACT IN COMBINATION OCCUPANCY/DAYLIGHT SENSOR.
- 2. EXHAUST FANS ARE CONTROLLED ON/OFF WITH LIGHT SWITCH
- 3. PROVIDE NON FUSED DISCONNECT SWITCH

REMARKS:

- A. REFER TO EQUIPMENT DATA SHEET FOR ADDITIONAL INFORMATION.
- B. COORDINATE WITH EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS.
- C. FOR DIRECT CONNECTED EQUIPMENT, TERMINATE EQUIPMENT WIRING IN A JUNCTION BOX WITH PROPERLY RATED WIRE NUTS

NOTES:




- 1. PROVIDE A FUSED DISCONNECT FUSED PER EQUIPMENT NAME PLATE.
- 2. PROVIDE A PILOT LIGHT DISCONNECT TO ILLUMINATE WHEN PUMP IS ENERGIZED.

REMARKS:

A. CONTRACTOR SHALL CONFIRM CEILING TYPE REQUIREMENTS PRIOR TO THE RELEASE OF THE ORDER.
B. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE.
C. FIXTURES SPECIFIED TO MEET DESIGN INTENT. EQUALS MAY BE SUBSTITUTED SUBJECT TO DESIGN TEAM'S APPROVAL.
D. PROVIDE ALL PARTS AND PIECES NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
E. ARCHITECT TO DETERMINE ALL FINISHES.
F. VERIFY DIMMING CONTROLS ARE COMPATIBLE WITH DIMMING DRIVER SELECTED FOR FIXTURE.

SCHEDULE BASED ON NEC TABLE 310.15(B)(16), 60 DEGREE CELSIUS CONDUCTOR 100 AMPS OR LESS AND 75 DEGREE CELSIUS CONDUCTOR GREATER THAN 100 AMPS. SIZES REFERENCED ARE MINIMUM. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL CONDUCTOR SIZES TO ACCOMMODATE VOLTAGE DROP.

PLAN NOTATION:

-  - SINGLE-PHASE, TWO-WIRE FEEDER, NUMBER IS THE FEEDER ID #
-  - SINGLE OR THREE-PHASE, THREE-WIRE FEEDER, NUMBER IS THE FEEDER ID #
-  - THREE PHASE, FOUR-WIRE FEEDER, NUMBER IS THE FEEDER ID #



NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PANEL EQUIPMENT RATED FOR OR EXCEEDING THE SHORT CIRCUIT RATING AT THE POINT OF INSTALLATION AND PROVIDING ARC FLASH LABELS PER NEC.

[illegible]

PLUMBING FIXTURE SCHEDULE							
MARK	MANUFACTURER	MODEL	DESCRIPTION	WSFU			DFU VALUE
				HW	CW	TOTAL	
DF-1	ELKAY	LK4409BFGRY	OUTDOOR, WALL MOUNTED B-I-LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION, HEAVY DUTY, STAINLESS STEEL, VANDAL RESISTANT, PUSH BUTTON ACTIVATED, GRAY FINISH.	-	0.25	0.25	0.5
FD-1	ZURN	Z415S	SQUARE CAST IRON FLOOR DRAIN, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS. POLISHED NICKLE BRONZE, HEEL-PROOF TOP, LIGHT DUTY STRAINER.	-	-	-	4.0
HB-1	WOODFORD	B65	HOSE BIBB IN CONCEALED, LOCKABLE BOX, NON-FREEZE, LOOSE KEY, AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER, CHROME FINISH	-	4.0	4.0	-
L-1	KOHLER	K-2031	WALL HUNG, WHITE, VITREOUS CHINA, ADA LAVATORY WITH OVERFLOW AND BACKSPASH, OVERALL DIMENSIONS: 20-3/4"X18-1/4"X12-7/8". FAUCET: CHICAGO FAUCETS S 116.606 AB.1 BATTERY POWERED, SENSOR ACTIVATED, SINGLE HOLE WITH 0.5 GPM NON-AERATING LAMINAR FLOW, VANDAL PROOF. PROVIDE WITH KOHLER K-7129-A GRID DRAIN, P-TRAP, AND LOOSE KEY STOPS. PROVIDE "HANDY-SHIELD MAXX" INSULATION ON P-TRAP, WATER VALVES AND EXPOSED SUPPLY PIPING.	0.5	0.5	1.0	1.0
MB-1	MUSTEE	63M	FLOOR MOUNTED, MOLDED STONE MOP BASIN WITH OVERALL DIMENSIONS: 24"X24"X10". FAUCET: MUSTEE 63.300A HEAVY DUTY, CHROME PLATED BRASS WITH TOP REINFORCING BAR AND PAIL HOOK. PROVIDE WITH HOSE CONNECTION VACUUM BREAKER EQUAL TO WATTS 8FR. PROVIDE WITH MUSTEE 65.700 HOSE AND HOSE HOLDER AND MUSTEE 65.600 MOP HANGER.	2.0	2.0	3.0	3.0
UR-1	KOHLER	K-4991-ET	VITREOUS CHINA WALL-MOUNT ADA WASHOUT URINAL WITH 3/4" TOP SPUD. OVERALL DIMENSIONS: 26 7/8" X 18" X 14 1/8". FLUSHOMETER: SLOAN G2 8186 BATTERY POWERED, SENSOR ACTIVATED, 0.5 GPF. FIXTURE SUPPORT: JAY R. SMITH 0637.	-	2.0	2.0	2.0
WC-1	KOHLER	K-96057	VITREOUS CHINA FLOOR MOUNT, SIPHON JET, ADA WATER CLOSET WITH 1-1/2" TOP SPUD. OVERALL DIMENSIONS: 21-7/8"X14-5/8"X16-5/8". FLUSHOMETER: SLOAN G2 8111 BATTERY POWERED, SENSOR ACTIVATED, 1.28 GPF.	-	6.5	6.5	6.0
NOTES: CONTRACTOR IS RESPONSIBLE FOR COORDINATING NECESSARY ELECTRICAL PROVISION WITH DIVISION 26 CONTRACTOR. DIVISION 22 CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE (24V) WIRING FOR ALL PLUMBING FIXTURES AND EQUIPMENT. PROVIDE ALL NECESSARY TRANSFORMERS TO ACCOMMODATE POWER SUPPLIES INDICATED ON ELECTRICAL DRAWINGS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY POWER SUPPLY PROVISIONS BEYOND WHAT IS INDICATED ON THE ELECTRICAL DRAWINGS.							

PUMPS											
MARK	MANUFACT	MODEL	TYPE	SERVICE	GPM MIN.	HEAD FT WC	MOTOR (WATTS)	RPM	VOLTS	PHASE	REMARKS
HWRP-1	BELL & GOSSETT	NBF-12	INLINE	BRONZE	2	10	55	2,800	120	1	1.2
1. PROVIDE WITH STARTER & DISCONNECT.											
2. PROVIDE WITH AQUASTAT & TIMER.											

ELECTRIC WATER HEATER									
MARK	MANUFACTURER	MODEL	GALLON CAPACITY	DATA			HEIGHT	DIAMETER	REMARKS
				KW	VOLT	PHASE			
EW-H-1	A.O. SMITH	DSE-20A-9	20	9	240	1	31.75"	22"	1.2
1. INCLUDE TEMPERATURE CONTROL, PRESSURE RELIEF VALVE, DRAIN VALVE									
2. SINGLE ELEMENT WATER HEATER									
3. PROVIDE WITH EXPANSION TANK EQUAL TO B&G PTA-5									

ABBREVIATIONS	
AD AFF AP	AREA DRAIN ABOVE FINISHED FLOOR ACCESS PANEL
BOP	BOTTOM OF PIPE
CA CO	COMBUSTION AIR CLEANOUT
DN	DOWN
ET-* EWC-*	EXPANSION TANK ELECTRIC WATER COOLER
FCO FD-*	FLOOR CLEANOUT FLOOR DRAIN
GI-*	GREASE INTERCEPTOR
HB-* HWRP-*	HOSE BIBB HOT WATER RECIRCULATION PUMP
IWH-*	INSTANTANEOUS WATER HEATER
L-*	LAVATORY
MB-*	MOP BASIN
NC NO	NORMALLY CLOSED NORMALLY OPEN
OD-*	OVERFLOW DRAIN
RD-*	ROOF DRAIN
S-* SH-* SP-* SS-* ST-* STP-*	SINK SHOWER SUMP PUMP SERVICE SINK STORAGE TANK SOLAR THERMAL PANEL
UR-*	URINAL
VFD	VARIABLE FREQUENCY DRIVE
WC-* WCO WH-* WWHP-*	WATER CLOSET WALL CLEANOUT WATER HEATER WATER-TO-WATER HEAT PUMP
X-*	EXISTING
YCO	YARD CLEANOUT

PLUMBING PIPING LEGEND			
	NEW PLUMBING EQUIPMENT		BALL VALVE
	EXISTING PLUMBING COMPONENT		BUTTERFLY VALVE
	DEMOLISHED PLUMBING COMPONENT		CHECK VALVE
	PLUMBING EQUIPMENT SERVICE AREA		CIRCUIT SETTER
	KEY NOTE		2-WAY ELECTRONIC CONTROL VALVE
	NEW DOMESTIC COLD WATER		3-WAY ELECTRONIC CONTROL VALVE
	EXISTING DOMESTIC COLD WATER		GATE VALVE
	NEW DOMESTIC HOT WATER		HOSE BIBB/DRAIN VALVE
	EXISTING DOMESTIC HOT WATER		OS&Y VALVE
	NEW DOMESTIC HOT WATER RETURN		PLUG VALVE
	EXISTING DOMESTIC HOT WATER RETURN		PRESSURE & TEMPERATURE RELIEF VALVE
	NEW DOMESTIC TEMPERED WATER		PRESSURE REGULATING VALVE
	EXISTING DOMESTIC TEMPERED WATER		TRIPLE DUTY VALVE
	NEW FIRE PROTECTION - CHEMICAL PIPE		AIR VENT
	NEW FIRE PROTECTION - DRY PIPE		FLEX PIPE
	NEW FIRE PROTECTION - WET PIPE		FLOOR DRAIN / ROOF DRAIN
	EXISTING FIRE PROTECTION		P-T PLUG
	NEW IRRIGATION		PIPE BREAK
	EXISTING IRRIGATION		PIPE CAPPED END
	NEW SANITARY SEWER		PIPE CLEANOUT
	EXISTING SANITARY SEWER		PIPE ELBOW/TEE DOWN
	NEW SANITARY VENT		PIPE ELBOW/TEE UP
	EXISTING SANITARY VENT		CONNECT TO EXISTING
	NEW STORM OVERFLOW		PUMP
	EXISTING STORM OVERFLOW		REDUCER
	NEW STORM SEWER		STRAINER
	EXISTING STORM SEWER		UNION
	DEMOLISHED PIPING (ALL SYSTEMS)		FLOW GAUGE
	EQUIPMENT		FLOW SENSOR
	PLUMBING EQUIPMENT TAG ELECTRICALLY POWERED		PRESSURE GAUGE
	FLOOR TAG EQUIPMENT		PRESSURE SENSOR
	PLUMBING EQUIPMENT TAG NOT ELECTRICALLY POWERED		TEMPERATURE GAUGE
	FLOOR TAG EQUIPMENT		TEMPERATURE SENSOR

GENERAL NOTES	
1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.	
2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.	
3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.	
4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.	
PLUMBING SHEET INDEX	
NUMBER	SHEET NAME
P0.1	PLUMBING NOTES, LEGEND, AND ABBREVIATIONS
P1.0	PLUMBING UNDERGROUND PLAN
P2.0	PLUMBING FLOOR PLAN
P3.0	PLUMBING ISOMETRICS

Architect
259 South Street, Suite A WAUKESHA, WI 53186 p: 833-380-6180

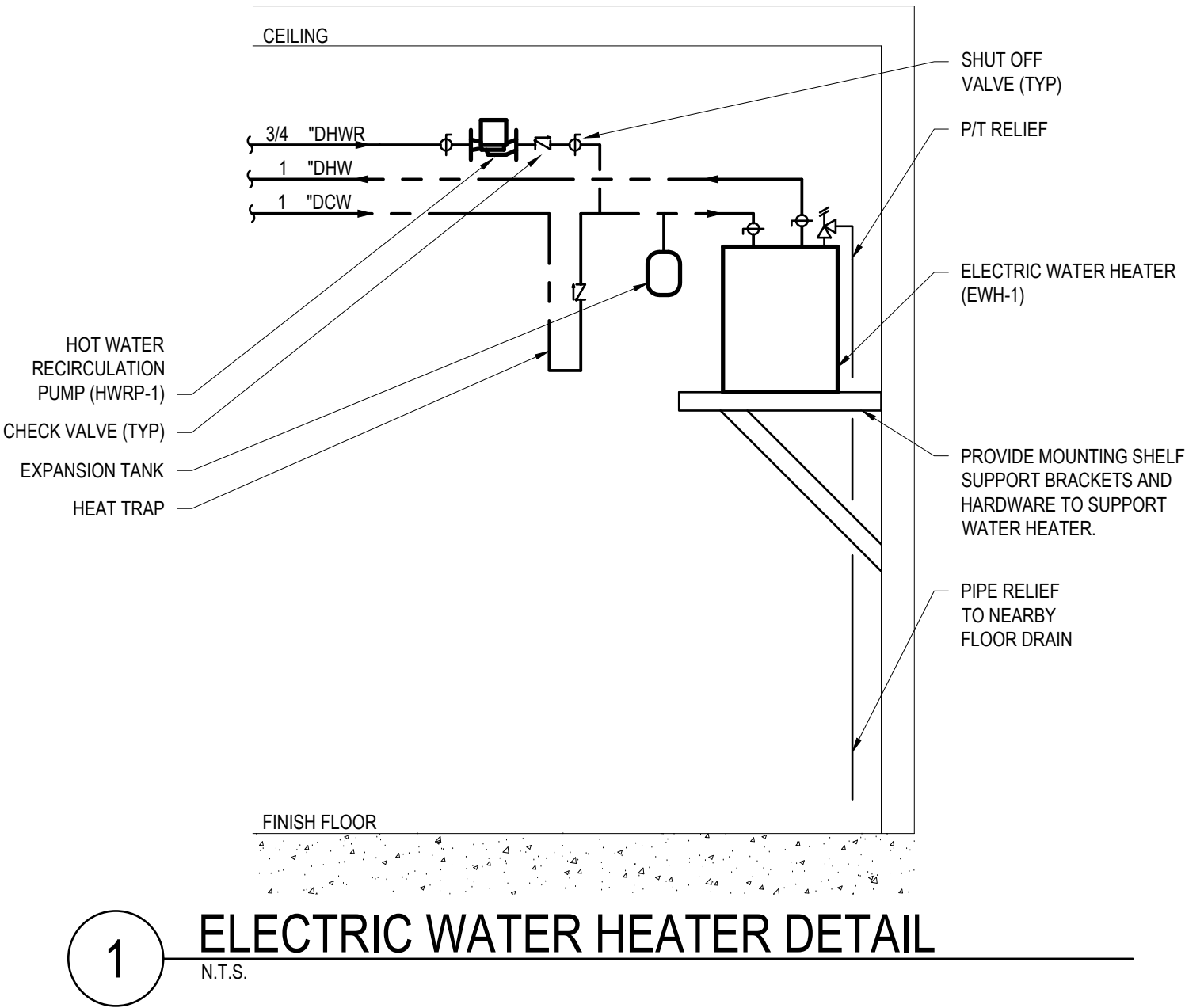
Project Info. — 22005
Riverside Park Restrooms
New Construction
600 Labaree St Watertown, WI

Sheet Title —
PLUMBING NOTES, LEGEND, AND ABBREVIATIONS

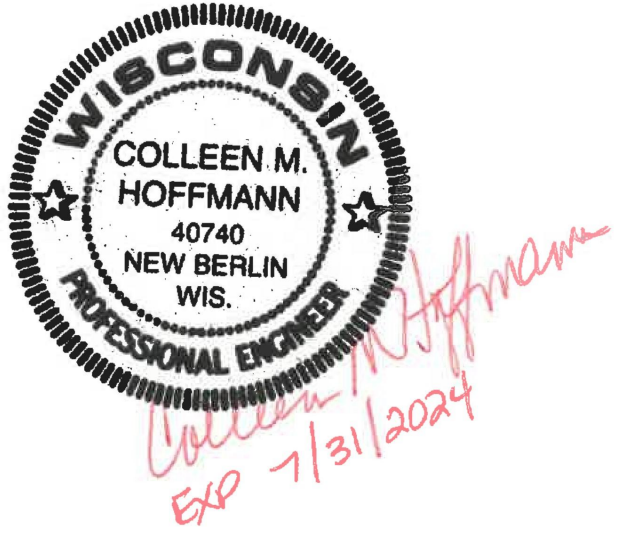
Drawn by	Checked by
KJW	CMH

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No. —
P0.1

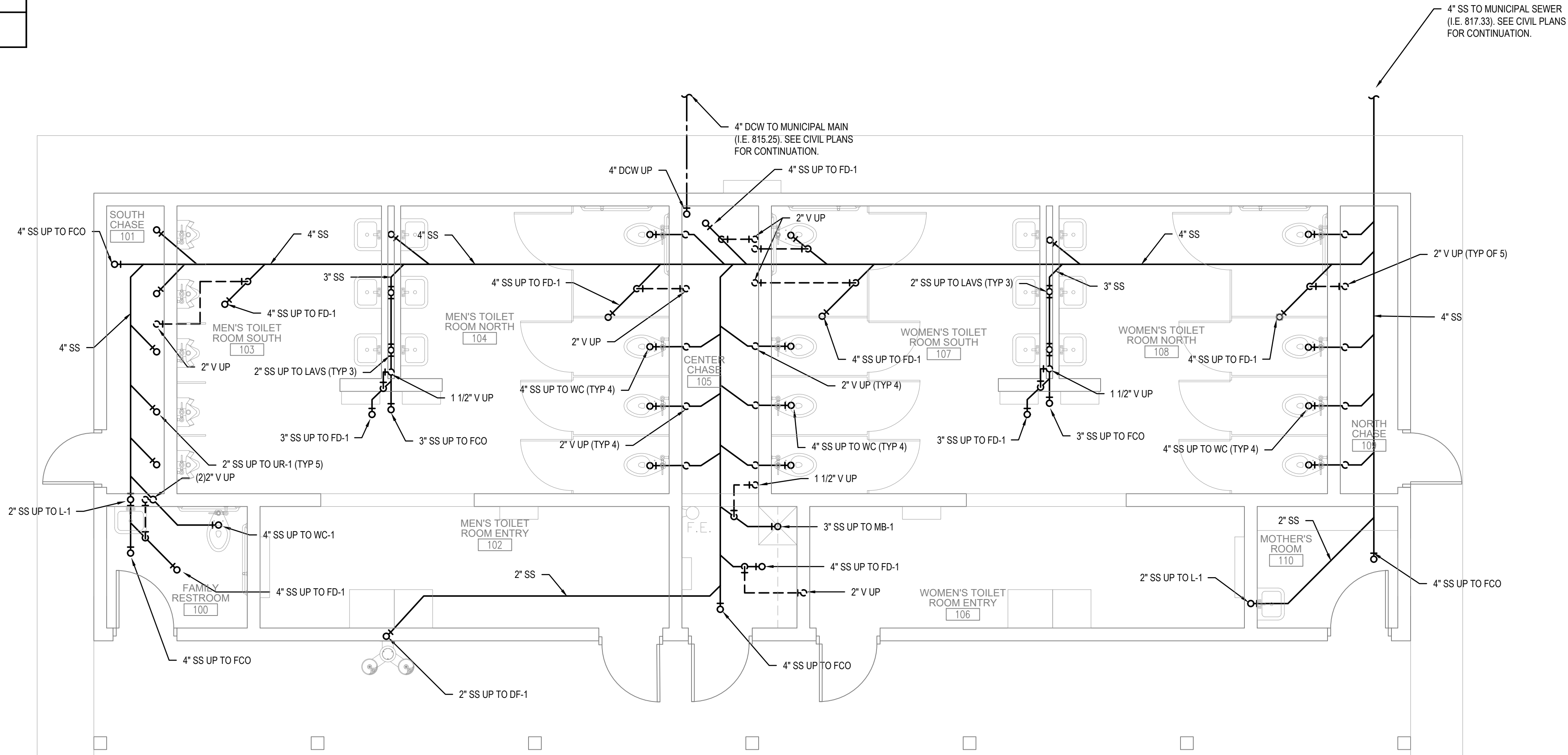


WATER CALCULATION WORKSHEET		
INFORMATION NEEDED FOR WATER SERVICE SIZING		
1 Demand of building in water supply fixture units:	124.75	WSFU
1a Demand of building in WSFU converted to Gallons per Minute:	75	GPM
2 Elevation difference from main or external pressure tank to building control valve:	8	FEET
3 Size of water meter (if applicable):	2	
4 Developed length from main or external pressure tank to building control valve	175	FEET
5 Low pressure at main in street or external pressure tank:	75	PSI
CALCULATE WATER SERVICE PRESSURE LOSS		
6 Low pressure at main in street or external pressure tank. (value of #5 above)	75	PSI
7 Determine pressure loss due to friction in 4 inch diameter water service.		
Water service piping is	COPPER	
Pressure loss per 100 ft =	0.3 x 1.75	0.525
	Subtotal	74.5 PSI
8 Determine pressure loss or gain due to elevation (multiply the value of #2 above by 0.434):	3.5	PSI
9 Available pressure after the bldg. control valve:	71.0	PSI
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF "A")		
A = [B - (C + D + E + F + G)] / H x 100		
B Available pressure after the bldg. control valve. (from #9 above):	71.0	PSI
C Pressure loss of water meter (when meter is required)	3	PSI
D Pressure required at controlling fixture	35	PSI
(Controlling fixture is: WATER CLOSET)		
E Difference in elevation between building control valve and the controlling fixture in feet	1 x 0.434	0.4
F Pressure loss due to water treatment devices and backflow preventors which serve the controlling fixture.	0	PSI
G Pressure loss through tankless water heaters, combination boiler / hot water heaters, heat exchangers which serve the controlling fixture:	0	PSI
H Developed length from building control valve to controlling fixture in feet:	90 x 1.5	135 FT
A Pressure available for uniform loss (psi/100' of pipe).	24.1	PSI / 100'

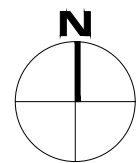


2023-06-30 Bid & Permit Set

SANITARY PIPING SLOPE	
PIPE SIZE	SLOPE
< 2"	1/4" / 12"
> 2"	1/8" / 12"



1 PLUMBING UNDERGROUND PLAN
SCALE: 1/4" = 1'-0"



2023-06-30 Bid & Permit Set

Architect
259 South Street, Suite A
WAUKESHA, WI 53186
P: 833-380-6180

Project Info. — 22005
Riverside Park Restrooms
New Construction
600 Labaree St
Watertown, WI

Sheet Title
PLUMBING UNDERGROUND PLAN

Drawn by	Checked by
KJW	CMH

Revisions		
No.	Date	Description
	06.30.2023	Bid & Permit Set

Sheet No.
P1.0

DESIGN CRITERIA

- | | |
|---|--|
| BUILDING CODE - INTERNATIONAL BUILDING CODE (IBC) 2015 / ASCE7-10 | |
| DEAD LOADS | |
| 1. ROOF | 15 PSF |
| 2. DEAD LOADS | 20 PSF |
| 3. ROOF LIVE LOADS | |
| 4. FLOOR LIVE LOADS | |
| PUBLIC AREAS | 100 PSF |
| STORAGE | 125 PSF |
| 5. SNOW LOADS | |
| GROUND SNOW, Pg | 30 PSF |
| EXPOSURE FACTOR, Ce | 1.0 |
| TEMPERATURE FACTOR, Ct | 1.2 |
| SLOPED ROOF FACTOR, Cs | 1.0 |
| IMPORTANCE FACTOR, Is | 1.0 |
| FLAT ROOF SNOW, Pf | 25.2 PSF |
| SLOPED ROOF SNOW, Ps | 25.2 PSF |
| SLIDING & DRIFTING SNOW, IN ADDITION TO FLAT ROOF SNOW, SEE PLANS | |
| UNBALANCED SNOW PER ASCE 7 | |
| 6. WIND LOADS | |
| ULTIMATE WIND SPEED, V | 115 MPH |
| RISK CATEGORY | II |
| EXPOSURE CATEGORY | C |
| INTERNAL PRESSURE COEFFICIENT, Gcpi | ±0.18 |
| COMPONENTS & CLADDING NOT DESIGNED BY THE ENGINEER OF RECORD SHALL BE DESIGNED FOR THE WIND PRESSURES SHOWN ON THE COMPONENTS AND CLADDING DIAGRAM. WIND PRESSURES FOR LARGER TRIBUTARY AREAS MAY BE USED BASED ON DELEGATED DESIGN CALCULATIONS. | |
| 7. SEISMIC LOADS | |
| RISK CATEGORY | II |
| IMPORTANCE FACTOR, Ie | 1.0 |
| SITE CLASS | D |
| MAPPED SPECTRAL RESPONSE... | |
| Ss | 0.083 g |
| S1 | 0.045 g |
| SPECTRAL RESPONSE COEFFICIENTS | |
| SDS | 0.089 g |
| SD1 | 0.072 g |
| SEISMIC DESIGN CATEGORY | B |
| SEISMIC FORCE RESISTING SYSTEM | ORDINARY REINFORCED MASONRY SHEAR WALLS |
| RESPONSE MODIFICATION FACTOR, R | |
| RESPONSE COEFFICIENT, Cs | 2 |
| DESIGN BASE SHEAR | 0.044 |
| ANALYSIS PROCEDURE | Cs x (WEIGHT OF BUILDING) EQUIVALENT LATERAL FORCE |
| 8. SOIL DESIGN VALUES | |
| REFERENCE GEOTECHNICAL REPORT | |
| PREPARED BY TERRACON CONSULTANTS, INC | DATED 06/23/2002 |
| SOIL UNIT WEIGHT (γ) | 120 PCF |
| ALLOWABLE SOIL BEARING PRESSURES | |
| VERTICAL (NET) | 3,000 PSF |
| 9. COMPONENT DESIGN | |
| WOOD ROOF TRUSSES | |
| DEAD | |
| TOP CHORD | 10.0 PSF |
| BOTTOM CHORD | 5.0 PSF |
| LIVE | |
| BOTTOM CHORD | 5.0 PSF |
| SNOW | |
| TOP CHORD | SEE NOTE 5 |
| DEFLECTION CRITERIA | |
| LL | L/360 |
| TL | L/240 |

GENERAL REQUIREMENTS

1. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THERE SHOULD NOT INCLUDE THE METHOD OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE. DURING CONSTRUCTION, SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO: BRACING, SHORING, BRIDGES, LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK.
2. OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
3. GENERAL CONTRACTOR TO DISTRIBUTE ALL SHEETS IN THE SET TO SUBCONTRACTORS.
4. THE ARCHITECT AND/OR ENGINEER OF RECORD SHALL NOT HAVE CONTROL OVER OR BE IN CHARGE OF, AND SHALL NOT BE RESPONSIBLE IN ANY WAY FOR CONSTRUCTION MEANS, METHODS TECHNIQUES, SEQUENCES, OR PROCEDURES, OR FOR SAFETY OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ANY CONSTRUCTION ACTIVITIES, SINCE THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
5. SUBMITTALS PREPARED BY SUBCONTRACTORS SHALL BE REVIEWED BY CONTRACTOR PRIOR TO SUBMITTING TO ARCHITECT/ENGINEER.
6. THE CONTRACTOR SHALL VERIFY MEASUREMENTS AND CONDITIONS AT THE JOB SITE. ANY DISCREPANCIES BETWEEN THE CONDITIONS FOUND AND THOSE INDICATED IN THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
7. SEE DOCUMENTS FROM OTHER DISCIPLINES FOR FLOOR, WALL, AND ROOF OPENINGS, TRENCHES, PITS, PIPE SLEEVES, EQUIPMENT PADS, METAL PAN STAIRS, MISCELLANEOUS IRON, ETC.
8. PLACE PIPES, DUCTS, CHASES, ETC. IN STRUCTURAL BEAM AND COLUMN MEMBERS. DO NOT CUT ANY STRUCTURAL MEMBER FOR PIPES, DUCTS, ETC., UNLESS NOTED OTHERWISE. NOTIFY STRUCTURAL ENGINEER WHEN DOCUMENTS BY OTHER DISCIPLINES SHOW OPENINGS, POCKETS, ETC. NOT INDICATED IN THE STRUCTURAL DRAWINGS BUT ARE LOCATED IN THE STRUCTURAL MEMBERS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER FOR INSTALLATION OF SUCH PIPES, DUCTS, CHASES, ETC.
9. DETAILS LABELED "TYPICAL" ON THE STRUCTURAL DRAWINGS APPLY TO ALL SITUATIONS OCCURRING ON PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE LOCATIONS SPECIFICALLY INDICATED. WHERE A DETAIL IS NOT INDICATED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR CONDITIONS.
10. CONTRACTOR DESIGNED ELEMENTS SHALL BE DESIGNED BY LICENSED PROFESSIONAL ENGINEERS REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, DESIGN LOAD DATA, SUPPORT REACTIONS, AND CERTIFICATION THAT ELEMENTS WERE DESIGNED FOR LOADS SPECIFIED IN THE CONTRACT DOCUMENTS OR IN THE BUILDING CODE. ALL DOCUMENTS NOTED SHALL BE SEALED BY THE LICENSED ENGINEER, IF CRITERIA INDICATED ARE NOT SUFFICIENT, SUBMIT A WRITTEN REQUEST FOR ADDITIONAL INFORMATION TO THE ARCHITECT. THE FOLLOWING ELEMENTS AND THEIR CONNECTIONS SHALL BE CONTRACTOR DESIGNED:
 - A. WOOD TRUSSES

CONCRETE

CODES:	
ACI 301	SPECIFICATION FOR STRUCTURAL CONCRETE
ACI MCP	MANUAL OF CONCRETE PRACTICE
ACI 318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 318.1	BUILDING CODE REQUIREMENTS FOR STRUCTURAL PLAIN CONCRETE

MATERIALS (28 DAY COMPRESSIVE STRENGTH):	
FOOTINGS	f'c=3,000 PSI
INTERIOR SLAB ON GRADE	f'c=4,000 PSI
EXTERIOR SLAB ON GRADE (EXCLUDING SIDEWALKS)	f'c=5,000 PSI
FOUNDATION WALLS / GRADE BEAMS / PIERS	f'c=4,500 PSI
BEAMS / COLUMNS	f'c=4,000 PSI
CONCRETE ON METAL DECK	f'c=4,000 PSI
CONCRETE TOPPING	f'c=4,000 PSI

1. CONCRETE MIX DESIGN (INCLUDING AGGREGATE SIZE, WATER CEMENT RATIO, AIR ENTRAINMENT, ADMIXTURES, SLUMP AND HISTORY OF BREAK TESTS) SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO THE COMMENCEMENT OF ANY WORK. CONCRETE SHALL BE NORMAL WEIGHT UHPC.
2. MAXIMUM WATER/CEMENT RATIO PERMITTED SHALL BE 0.50 FOR INTERIOR SLABS ON GRADE, 0.45 FOR BELOW GRADE CONCRETE AND 0.40 FOR CONCRETE EXPOSED TO WATER AND DEICING CHEMICALS.
3. CONCRETE WHICH WILL BE EXPOSED TO THE WEATHER (INCLUDING FOUNDATION WALLS) SHALL HAVE AIR-ENTRAINING ADMIXTURE AS SPECIFIED IN SECTION 05050 TO PROVIDE 6% ± 1% AIR.
4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4" FOR SLABS ON GRADE, WALLS, BEAMS & COLUMNS, 1" FOR FOOTINGS AND 3/8" FOR TOPPING SLABS, NORMAL WEIGHT AGGREGATE TO CONFORM TO ASTM C33, LIGHTWEIGHT AGGREGATE TO CONFORM TO ASTM C330.
5. CONCRETE SHALL BE EVALUATED ACCORDING TO METHOD 1 OR METHOD 2 OF ASTM C1067. THE RESULTS OF THESE ANALYSES SHALL BE SUBMITTED TO THE EOR FOR APPROVAL PRIOR TO ANY WORK.
6. THE CONTRACTOR SHALL MAKE PROVISIONS TO ALLOW AN INDEPENDENT TESTING AGENCY TO CAST 4 TEST CYLINDERS FOR EACH 50 CUBIC YARDS OF CONCRETE PLACED, OR FOR ANY DAY'S OPERATION. THE TESTING AGENCY SHALL BE RESPONSIBLE FOR CASTING AND CURING SPECIMENS IN COMPLIANCE TO ASTM C31 AND CASTING TESTING SPECIMENS IN COMPLIANCE TO ASTM C39.
7. DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, CONTROL JOINTS, AND PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE PREPARATION OF REINFORCING SCHEDULES. MAXIMUM SPACING OF JOINTS SHALL BE 40'-0" AND A MINIMUM OF 4'-0" FROM INTERSECTIONS AND CORNERS.
8. GROUT USED TO SET PLATES SHALL BE NON-SHRINK AND NON-METALLIC.
9. THE CONTRACTOR SHALL USE SMOOTH FORMS FOR EXPOSED CONCRETE SURFACES. BOARD FORMS MAY BE USED FOR UNEXPOSED CONCRETE SURFACES. EARTH FORMS ARE FORBIDDEN.
10. PROVIDE A MINIMUM OF 6" OF COMPACTED GRANULAR FILL UNDER ALL SLABS ON GRADE.
11. VAPOR BARRIER TO BE 10 MILS THICKNESS MINIMUM, LAP MINIMUM 6" AND TAPE ALL SEAMS. VERIFY ADDITIONAL REQUIREMENTS WITH ARCHITECT.
12. FLOOR FLATNESS AND LEVELNESS OF SLAB ON GRADE CONCRETE SHALL HAVE THE FOLLOWING TOLERANCES, AS RECOGNIZED BY THE MOST RECENT EDITION OF THE ASTM F426-17 STANDARD. IF THE SPECIFICATION FOR FURTHER REQUIREMENTS (F)F) SPECIFIED OVERALL VALUE (SOV) OF 50, MINIMUM LOCALIZED VALUE (MLV) OF 25 AND (FL) SPECIFIED OVERALL VALUE (SOV) OF 33, MINIMUM LOCALIZED VALVE (MLV) OF 17).

SPREAD FOUNDATIONS

1. ALL FOUNDATIONS SHALL BE SUPPORTED ON APPROVED EXISTING SUBGRADE OR APPROVED COMPACTED STRUCTURAL FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED IN THE SOIL DESIGN VALUES.
2. SUBSURFACE CONDITIONS SHALL BE IMPROVED TO MEET CAPACITY WHEN REQUIRED BY THE RECOMMENDED GEOTECHNICAL REPORT.
3. THE ENGINEER MAKES NO REPRESENTATION AS TO THE VALIDITY OF THE SUBSURFACE CONDITIONS DESCRIBED IN THE DRAWINGS, SPECIFICATIONS, TEST BORINGS OR GEOTECHNICAL REPORTS. THIS DATA IS INCLUDED TO ASSIST THE CONTRACTOR DURING BIDDING AND SUBSEQUENT CONSTRUCTION, AND TO REPRESENT CONDITIONS ONLY AT SPECIFIC LOCATIONS AT THE PARTICULAR TIME THE OBSERVATIONS WERE MADE.
4. ALL EXTERIOR FOUNDATIONS SHALL BEAR ON APPROVED SUBGRADE AT OR BELOW THE FINISHED GRADE ELEVATION.
5. FOOTING ELEVATIONS SHOWN ON THE DRAWINGS REPRESENT ESTIMATED DEPTHS AND ARE NOT TO BE CONSTRUED AS LIMITING THE AMOUNT OF EXCAVATION REQUIRED TO REACH SUITABLE BEARING MATERIAL.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORTS IN ALL EXCAVATIONS AS REQUIRED TO PREVENT HORIZONTAL MOVEMENT OR VERTICAL SETTLEMENT OF SURROUNDING SOIL AND/OR PROPERTY WHICH WILL BE DANGEROUS TO LIVES OR PROPERTY.
7. THE CONTRACTOR SHALL PROVIDE CONTROL OF SURFACE AND SUBSURFACE WATER PROMPTLY TO ENSURE THAT ALL FOUNDATION WORK IS PERFORMED IN A DRY CONDITION.
8. FOUNDATIONS SHALL NOT BE PLACED ON FROZEN SUBGRADE.
9. THE CONTRACTOR SHALL PROTECT IN-PLACE FOUNDATIONS AND SLABS-ON-GRADE FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETE.
10. FOUNDATION WALLS SHALL BE BRACED DURING BACKFILLING AND CONSTRUCTION. BRACES SHALL BE LEFT IN PLACE UNTIL A PERMANENT STRUCTURAL SUPPORT SYSTEM IS INSTALLED AND APPROVED BY THE ENGINEER.
11. WHERE FOUNDATION WALLS HAVE FILL ON BOTH SIDES, BACKFILLING SHALL BE DONE SIMULTANEOUSLY ON BOTH SIDES OF THE WALL.

CONCRETE REINFORCING

CODES:	
ACI 315	DETAIL AND DETAILING OF CONCRETE REINFORCEMENT
ACI 318	BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
MSP2	CRSI MANUAL OF STANDARD PRACTICE
AWS D.1.4	STRUCTURAL WELDING CODE - REINFORCING STEEL
WRI	WELDED WIRE FABRIC MANUAL OF STANDARD PRACTICE

MATERIALS:		
REINFORCING BARS	ASTM A615 Gr 60	Fy=60 KSI
WELDED WIRE FABRIC	ASTM A185	
MACRO FIBER REINFORCING	ASTM C1116 Type III	

1. THE REINFORCEMENT FABRICATOR SHALL PROVIDE AND SCHEDULE ON SHOP DRAWINGS ALL REQUIRED REINFORCING STEEL AND NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN PLACE AT THE CORRECT LOCATIONS.
2. THE REQUIRED CLEARANCE FOR REINFORCEMENT (UNO) SHALL BE 3" FOR CONCRETE PLACED DIRECTLY AGAINST EARTH. 2" (#6 & LARGER) AND 1 1/2" (#5 & SMALLER) FOR CONCRETE EXPOSED TO EARTH OR WEATHER, 1 1/2" (#14 & LARGER) AND 3/4" (#11 & SMALLER) FOR CONCRETE NOT EXPOSED TO EARTH OR WEATHER.
3. THE CONTRACTOR SHALL REFER TO TYPICAL DETAILS SHOWN ON THE CONTRACT DRAWINGS FOR ADDITIONAL REINFORCING REQUIREMENTS.
4. REINFORCEMENT IS REQUIRED IN SECTIONS. REINFORCEMENT IS CONSIDERED TYPICAL WHERE EVER THE SECTION APPLIES.
5. WELDED WIRE FABRIC SHALL HAVE A MINIMUM OF 6" LAP AND BE TIED TOGETHER.
6. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF COMPLETION OF REINFORCEMENT INSTALLATION AND ALLOW AT LEAST 24 HOURS BEFORE SCHEDULED CONCRETE PLACEMENT FOR THE ARCHITECT TO INSPECT REINFORCEMENT.

PREFABRICATED WOOD TRUSSES

CODES:	
TRUSS PLATE INSTITUTE	DESIGN SPECIFICATIONS FOR LIGHT METAL PLATE CONNECTED WOOD TRUSSES

- THE WOOD TRUSS FABRICATOR SHALL SUBMIT CALCULATIONS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

2. THE WOOD TRUSSES SHALL BE ERECTED AND BRACED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN "BRACING OF WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS".

3. ALL WOOD TRUSSES SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS, COLUMNS, OR JOIST HANGERS.

4. DESIGN LOADS FOR TRUSSES SHALL BE AS NOTED ON DRAWINGS.

5. DESIGN TRUSS MEMBERS FOR CONCENTRATED LOADS OF SPRINKLER PIPING AND OTHER MECHANICAL LOADS.

REINFORCED MASONRY

CODES:		
ACI 530.1/ASCE 6/TMS 602	SPECIFICATION FOR MASONRY STRUCTURES	
ACI 530/ASCE 5/TMS 402	BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES	
MATERIALS:		
CONCRETE MASONRY BLOCK	ASTM C-90	2,000 PSI

UNLESS NOTED ON THE PLANS.

11. ALL FASTENERS FOR WOOD CONSTRUCTION CONNECTORS (JOIST HANGERS, ETC.) SHALL BE PROVIDED BY OR APPROVED BY THE CONNECTOR'S MANUFACTURER.

12. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE TREATED WOOD SHALL BE STAINLESS STEEL.

13. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH FIRE RETARDANT TREATED WOOD USED IN INTERIOR APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS FASTENERS AND WOOD CONSTRUCTION CONNECTORS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL.

14. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307 OR HOT DIP GALV. WASHERS SHALL BE PROVIDED BETWEEN THE HEAD OR NUT AND THE WOOD SURFACE.

15. NO WOOD MEMBER SHALL BE CUT, NOTCHED, OR DRILLED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE EOR.

16. THE GLUE-LAMINATED TIMBER FABRICATOR SHALL SUBMIT DRAWINGS AND CALCULATIONS, INCLUDING CONNECTIONS, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

TYPE M/S MORTAR	ASTM C270	
GROUT (28 DAY STRENGTH)	ASTM C476	2,000 PSI
REINFORCING BARS	ASTM A615 Gr 60	Fy=60 KSI

1. THE REQUIRED MINIMUM 28 DAY COMPRESSIVE STRENGTH OF THE COMBINATION OF CONCRETE BLOCK, GROUT AND MORTAR ON THE NET AREA OF THE CONSTRUCTION (Fm) SHALL BE A MINIMUM OF 2,000 PSI.
2. ALL CONCRETE BLOCK MASONRY UNITS SHALL BE NORMAL WEIGHT.
3. ALL CONCRETE BLOCK MASONRY UNITS SHALL BE LAID IN RUNNING BOND, UNO.
4. MASONRY BLOCK CELLS CONTAINING VERTICAL REINFORCING SHALL BE GROUTED SOLID. CONCRETE MORTAR IS UNACCEPTABLE.
5. ALL BOND BEAMS TO BE GROUTED SOLID.
6. THE BASE OF EACH CELL IN WHICH REINFORCING BAR IS PLACED MUST HAVE A CLEAN OUT HOLE.
7. VERTICAL REINFORCING BARS SHALL BE LAPPED PER SCHEDULE. MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES.
8. PROVIDE CONTINUOUS REINFORCED BOND-BEAMS IN ALL REINFORCED MASONRY WALLS AT THE TOP, AND AS REQUIRED IN THE CONTRACT DRAWINGS. BOND-BEAMS AT THE TOP OF THE WALL SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. ALL OTHER BOND-BEAMS SHALL BE CONTINUOUS AT MASONRY CONTROL JOINTS. BOND-BEAM REINFORCING SHALL EXTEND INTO AND BE CONTINUOUS WITH ALL INTERSECTING BOND-BEAMS.
9. REINFORCED MASONRY WALLS SHALL HAVE #9 GAUGE (LADDER TYPE) HORIZONTAL REINFORCING AT SPACING AS NOTED ON CONTRACT DRAWINGS, BUT AT A MAXIMUM OF 16" O.C. VERTICALLY.
10. FILL CORES OF MASONRY UNDER ALL BEARING PLATES. THE MINIMUM WIDTH SHALL BE 3 TIMES THE BEARING PLATE LENGTH FOR THREE COURSES BELOW BEARING, UNO.
11. EXPOSED WALLS DURING CONSTRUCTION AS REQUIRED TO RESIST WIND AND OTHER TEMPORARY LOADS UNTIL FINAL STRUCTURAL MEMBERS ARE INSTALLED.
12. PROVIDE BAR POSITIONERS ON ALL REINFORCING TO HOLD AND MAINTAIN PROPER REBAR LOCATIONS AND COVER DURING GROUTING.

STRUCTURAL WOOD CONSTRUCTION

CODES:	
NFPA	NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION
NFPA	DESIGN VALUES FOR WOOD CONSTRUCTION
ATTC	TIMBER CONSTRUCTION MANUAL, PART II, DESIGN SPECIFICATIONS
APA	US PRODUCT STANDARD PS 1-83 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD
AFPA	AMERICAN FOREST AND PAPER ASSOCIATION - MANUAL FOR ENGINEERED WOOD CONSTRUCTION

MATERIALS:		SPECIES/GRADE
SAWN LUMBER	ASTM D1990-96A OR ASTM D245	
WALL STUDS COLUMNS JOISTS & BEAMS		SPF STUD SPF No.1/No.2 SPF No.1/No.2
I-JOISTS	ASTM D5055	
LSL WALL STUDS HEADERS		1.3E 1.3E
LVL WALL STUDS HEADERS	ASTM D5055	2600 Fb, 2.0E
PSL BEAMS COLUMNS	ASTM D5055	2.0E 1.9E
GLUE-LAMINATED TIMBER	AITC A190.1 & ASTM D3737	DF BALANCED 24F +1.8E
WOOD PANELS (COMPOSITE, ORIENTED STRANDBOARD & PLYWOOD)	DOC PS 1 OR PS 2	APA RATED
PRESERVATIVE TREATED WOOD	AWPA STD U1 & M4	S. PINE No.2
FIRE-RETARDANT TREATED LUMBER	IBC 2303.2 ASTM E84 CLASS A	S. PINE No.2
TONGUE & GROOVE DECKING	AMERICAN FOREST AND PAPER ASSOCIATION WOOD CONSTRUCTION DATA 2	Fb=1000 PSI E=1.8 KSI

1. ALL WOOD SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 15% PRIOR TO INSTALLATION. MOISTURE CONTENT SHALL BE DETERMINED PER ASTM D4442.
2. ALL WOOD SHALL BE PROTECTED FROM MOISTURE BEFORE INSTALLATION.
3. ALL WOOD STORED AT THE BUILDING SITE SHALL BE ELEVATED 6" ABOVE THE GROUND AND COVERED WITH PLASTIC TARP/PLAINS.
4. ALL STRUCTURAL WOOD SHALL MEET OR EXCEED ALLOWABLE UNIT STRESSES AND/OR GRADE AS REQUIRED BY THE DRAWINGS.
5. JOISTS SHALL BE BRIDGED WITH 1" X 3" CROSS BRIDGING, OR EQUAL, AT INTERVALS NOT EXCEEDING 8'-0" O.C.
6. ALL WOOD PERMANENTLY EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, MASONRY OR CONCRETE SHALL HAVE A PRESERVATIVE TREATMENT EQUAL TO 0.4 P.C.F RETENTION OF PRESSURE INJECTED PRESERVATIVE.
7. ALL JOISTS AND RAFTERS SHALL BE SUPPORTED BY DIRECT END BEARING ON WALLS, BEAMS OR JOIST HANGERS.
8. WOOD MEMBERS SHALL NOT BE IN DIRECT CONTACT WITH CONCRETE OR MASONRY WITHOUT BEING MADE OF NATURALLY DURABLE OR PRESERVATIVE TREATED WOOD UNLESS 1/2" AIR SPACE IS PROVIDED AROUND (TOP, SIDES, END) OF WOOD RAFTERS/JOISTS/GIRDERS: IMPERVIOUS MOISTURE BARRIER OR 1" ELEVATED BASE IS PROVIDED AT WOOD COLUMNS; IMPERVIOUS MOISTURE BARRIER IS PROVIDED AT SILL PLATES.
9. WOOD STRUCTURAL PANELS SHALL BE LAID WITH THE LONG PANEL DIRECTION PERPENDICULAR TO THE SUPPORTING MEMBERS, WITH ENDS STAGGERED.
10. WOOD STRUCTURAL PANELS SHALL BEAR THE APPROPRIATE GRADING STAMP BY THE REVIEWING AGENCY.
11. ALL NAILS GIVEN ON THE PLANS SHALL BE CONSIDERED "COMMON NAILS" UNLESS NOTED ON THE PLANS.
12. ALL FASTENERS FOR WOOD CONSTRUCTION CONNECTORS (JOIST HANGERS, ETC.) SHALL BE PROVIDED BY OR APPROVED BY THE CONNECTOR'S MANUFACTURER.
13. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH PRESERVATIVE-TREATED OR FIRE TREATED WOOD SHALL BE STAINLESS STEEL.
14. ALL FASTENERS AND WOOD CONSTRUCTION CONNECTORS IN CONTACT WITH FIRE RETARDANT TREATED WOOD USED IN INTERIOR APPLICATIONS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IN THE ABSENCE OF MANUFACTURER'S RECOMMENDATIONS FASTENERS AND WOOD CONSTRUCTION CONNECTORS SHALL BE STAINLESS STEEL OR HOT-DIPPED GALVANIZED STEEL.
15. ALL BOLTS AND LAG SCREWS SHALL CONFORM TO ASTM A307 OR HOT DIP GALV. WASHERS SHALL BE PROVIDED BETWEEN THE HEAD OR NUT AND THE WOOD SURFACE.
16. NO WOOD MEMBER SHALL BE CUT, NOTCHED, OR DRILLED WITHOUT THE SPECIFIC WRITTEN PERMISSION OF THE EOR.
17. ALL PRE-LAMINATED TIMBER FABRICATOR SHALL SUBMIT DRAWINGS AND CALCULATIONS, INCLUDING CONNECTIONS, TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION. THE CALCULATIONS MUST BE STAMPED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE LOCAL JURISDICTION.

STRUCTURAL STEEL

CODES:	
AISC	<i>SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS</i>
AISC	<i>CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES</i>
AWS D1.1	<i>STRUCTURAL WELDING CODE - STEEL</i>
AISC	<i>STRUCTURAL STEEL DETAILING MANUAL</i>

MATERIALS:		
HOT ROLLED W & WT SHAPES	ASTM A992	Fy=50 KSI
ANGLES, CHANNELS & PLATES	ASTM A36	Fy=36 KSI
S + M SHAPES	ASTM A36	Fy=36 KSI
HP SHAPES	ASTM A572 Gr 50	Fy=50 KSI
STEEL PIPE	ASTM A53 Gr B	Fy=35 KSI
RECTANGULAR HSS	ASTM A500 Gr B	Fy=46 KSI
ROUND HSS	ASTM A500 Gr B	Fy=42 KSI
HIGH STRENGTH BOLTS	ASTM A325	
HEAVY HEX NUTS	ASTM A563	
HARDENED STEEL WASHERS	ASTM A36	
ANCHOR RODS	ASTM F1554 Gr 36	Fy=36 KSI
THREADED RODS	ASTM A36	Fy=36 KSI
HEADED STUD ANCHORS	ASTM A108	

1. PROVIDE 2 MIL THICKNESS RED OR GRAY OXIDE PRIMER ON ALL STEEL SURFACES (UNO).
2. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A123 AND FASTENERS HOT DIPPED GALVANIZED PER ASTM A153.
3. ANCHOR RODS SHALL BE PRESET WITH TEMPLATES.
4. LEVELING PLATES AND BEARING PLATES SHALL BE SET IN A FULL BED OF NON-SHRINK GROUT.
5. CONNECTIONS MAY BE BOLTED OR WELDED AT THE FABRICATORS OPTION. BOLTED CONNECTIONS SHALL BE A MINIMUM BOLT DIAMETER OF 3/4" (UNO). HIGH STRENGTH BOLTS IN SINGLE OR DOUBLE SHEAR (UNO) AND SIMPLE SHEAR CONNECTIONS SHALL BE CAPABLE OF END ROTATION PER AISC REQUIREMENTS FOR UNRESTRAINED MEMBERS.
6. THE MINIMUM FILLET WELD SIZE SHALL NOT BE LESS THAN 3/16" (UNO).
7. ALL WELDS SHALL USE WELD METAL CONFORMING TO E70XX AND CONFORMING TO AWS WELDING PROCEDURES AND STANDARDS.
8. ALL WELDS SHALL BE MADE BY AWS CERTIFIED WELDERS CERTIFIED IN THE POSITION IN WHICH THE WELD IS TO BE MADE.
9. THE ERECTION OF ANY STRUCTURAL STEEL MEMBERS SHALL NOT COMMENCE UNTIL ALL SUPPORTING CONCRETE/MASONRY ELEMENTS HAVE ATTAINED AT LEAST 75% OF THEIR INTENDED MINIMUM COMPRESSIVE STRENGTH.
10. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SUPPORTS AS REQUIRED FOR THE SAFE ERECTION OF ALL STEEL. TEMPORARY BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT BRACING HAS BEEN INSTALLED AND FLOOR SLAB CONCRETE HAS ATTAINED 75% OF ITS REQUIRED STRENGTH.
11. STRUCTURAL STEEL SHALL BE TRUE AND PLUMB BEFORE FINAL BOLTING OR WELDING OF CONNECTIONS.
12. THE CONTRACTOR SHALL NOT MODIFY OR CUT ANY STRUCTURAL STEEL WITHOUT WRITTEN APPROVAL FROM THE OWNER.
13. THE CONTRACTOR SHALL FIELD TOUCH UP ALL ABRASIONS, BURNS, AND SIMILAR DEFECTS IN PAINT OF STRUCTURAL STEEL.
14. PROVIDE 1/4" CLOSURE/END PLATES FOR ALL OPEN ENDS OF HSS & PIPE MEMBERS.

POST-INSTALLED ANCHORS

1. THE DIAMETER, EMBEDMENT LENGTH AND TYPE OF ADHESIVE ANCHORS, EXPANSION ANCHORS, AND SCREW ANCHORS SHALL BE AS SPECIFIED ON THE DRAWINGS.
2. THE SUBSTITUTION OF OTHER MANUFACTURER'S SIMILAR PRODUCTS IS ALLOWED, PROVIDED THAT THE SIZE IS EQUAL TO, AND CAPACITY IN SHEAR UPLIFT ARE EQUAL TO OR GREATER THAN WHAT IS SPECIFIED ON THE DRAWINGS. THE COST OF REDESIGN OF SUCH SUBSTITUTIONS SHALL BE BORNE BY THE CONTRACTOR.
3. INSTALLATION OF ANCHORS SHALL STRICTLY FOLLOW ALL MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS. ALL DRILL HOLE PREPARATION SHALL BE FOLLOWED.
4. NO LOAD SHALL BE APPLIED TO ADHESIVE ANCHORS PRIOR TO THE FULL CURE TIME AS SPECIFIED BY THE MANUFACTURER.
5. TESTING OF 10% OF ALL INSTALLED ANCHORS IS REQUIRED. TESTED ANCHORS SHALL MEET THE MANUFACTURERS PROOF LOAD REQUIREMENTS AND/OR INSTALLATION TORQUE REQUIREMENTS. MALFUNCTIONING FASTENERS SHALL BE REPLACED.

STRUCTURAL SHEET INDEX	
Sheet Number	Sheet Name
S0.1	GENERAL NOTES
S0.2	SCHEDULES
S1.0	FOUNDATION PLAN
S1.1	ROOF FRAMING PLAN
S1.2	HIGH ROOF FRAMING PLAN
S3.0	CONCRETE SECTIONS & DETAILS
S3.1	CONCRETE SECTIONS & DETAILS
S4.0	MASONRY SECTIONS & DETAILS
S6.0	WOOD SECTIONS & DETAILS
S6.1	WOOD SECTION & DETAILS



Architect

259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info.—22005

RIVERSIDE PARK RESTROOMS

NEW CONSTRUCTION

600 Labaree St
Watertown, WI

Sheet Title

GENERAL NOTES

Drawn by	Checked by
C4E	C4E

Revisions

[illegible]

Sheet No

S0.1



259 South Street, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

RIVERSIDE PARK RESTROOMS

600 Labaree St
Watertown, WI

SCHEDULES

Drawn by	Checked by
C4E	C4E

[illegible]

S0.2

SHEARWALL SCHEDULE						
MARK	BLOCKED/ UNBLOCKED	EXTERIOR SHEATHING		INTERIOR SHEATHING		SILL PLATE ANCHORS
		TYPE	FASTENING	TYPE	FASTENING	
SW1	BLOCKED	APA RATED 7/16"	8d (1 3/8" PEN MIN) @ 6/12	SEE ARCH	-	SIMPSON 1/4" Ø SDS HD SCREW @ 12" OC (3" PEN MIN) @ WOOD
SW2	BLOCKED	APA RATED 7/16"	8d (1 3/8" PEN MIN) @ 4/12	SEE ARCH	-	SIMPSON 1/4" Ø SDS HD SCREW @ 6" OC (3" PEN MIN) @ WOOD

NOTES:

- SEE TYPICAL SHEARWALL DETAIL.
- LETTER AFTER SHEARWALL DESIGNATION DENOTES ANCHORAGE TYPE, SEE SHEARWALL ANCHORAGE SCHEDULE.

SHEARWALL ANCHORAGE				
LABEL	STRAP	HOLDOWN	THREADED ROD Ø	ENDPOST
A	-	DTT2Z	1/2"	(1) 2x

NOTE:

- SEE TYPICAL HOLDOWN ANCHORAGE DETAIL FOR THREADED ROD EMBEDMENT LENGTH AND ANCHORAGE REINFORCING.
- HOLDOWNS ONLY REQUIRED AT CONCRETE, USE STRAPS ELSEWHERE. SEE TYPICAL SHEARWALL DETAIL.
- AT STRAPS, PROVIDE 1/2 OF SPECIFIED NAILS IN EACH END LENGTH. BETWEEN END LENGTHS, PROVIDE NAILS @ 6" ON CENTER.
- IF SHEARWALL ENDS ARE UNALIGNED, CONTINUE END POST TO FOUNDATION AND PROVIDE HOLDOWN. IF SHEARWALL IS SUPPORTED BY BEAM, PROVIDE STRAPS AND WRAP AROUND BEAM.

CONCRETE SLAB ON GRADE SCHEDULE						
MARK	SYSTEM DEPTH	CONCRETE SLAB			COMPACTED GRAVEL THICKNESS	REMARKS
		TYPE	THICKNESS	SLAB REINFORCING		
SOG 5	11"	NWC	5"	FORTA FERRO FIBER REINFORCING (3 LB/CY)	6"	SEE TYPICAL SLAB JOINT DETAIL

WOOD DECK/SHEATHING SCHEDULE						
MARK	SYSTEM DEPTH	STRUCTURAL LAYER		TOPPING/OVERLAYMENT		REMARKS
		TYPE	THICKNESS	TYPE	THICKNESS	
WD062	5/8"	PLYWOOD/OSB WOOD SHEATHING	5/8"	-		PROVIDE SIMPSON PSC CLIPS AT PANEL EDGES

PIER SCHEDULE						
MARK	DIMENSIONS			REINFORCING		REMARKS
	DIAMETER	WIDTH	DEPTH	VERTICAL	TIES	
P1		1'-0"	1'-0"	(4)-#6	#3 @ 1'-0" OC	

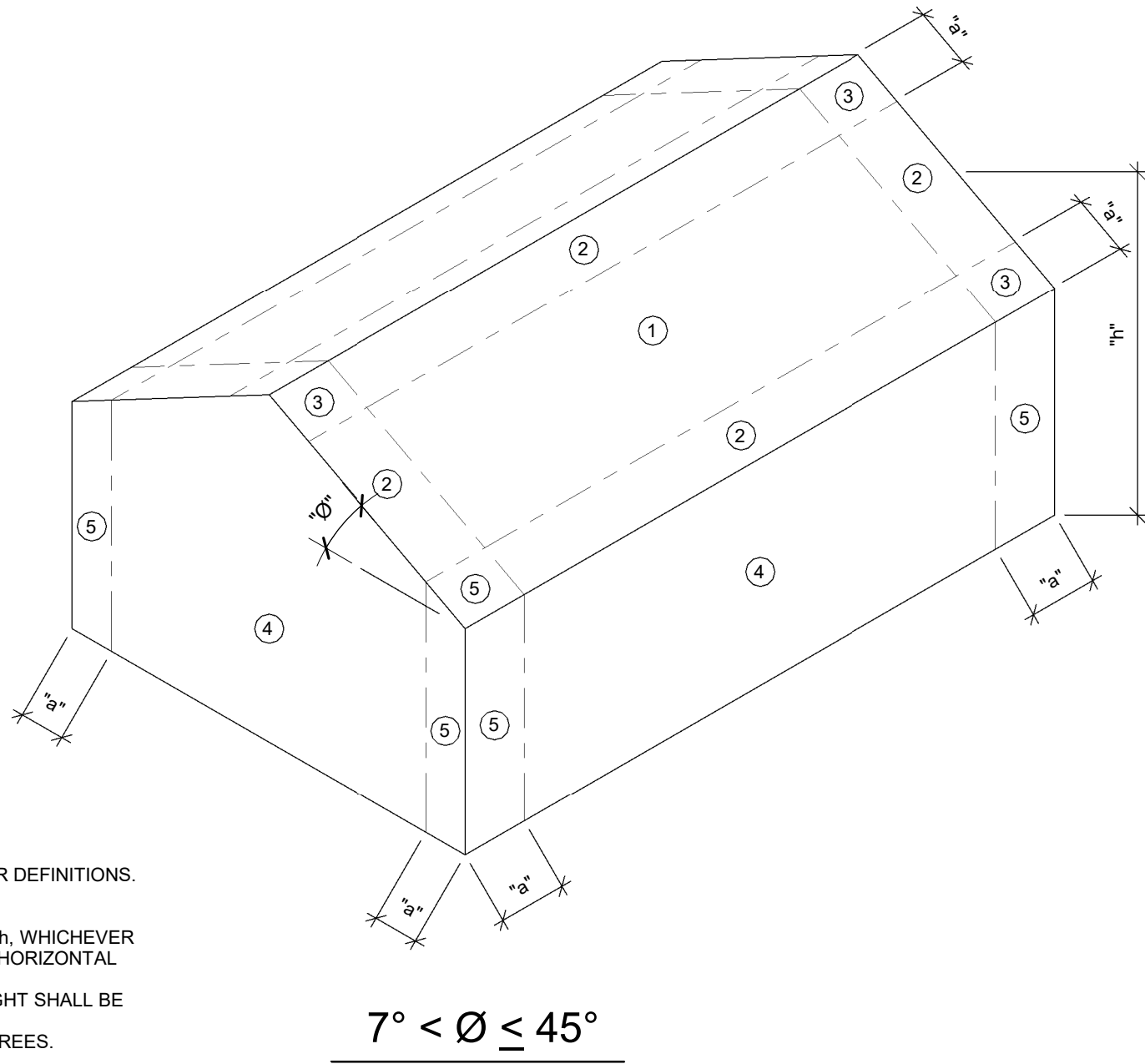
LINTEL SCHEDULE				
MARK	LINTEL	JAMB REINF	LINTEL TYPE	REMARKS
L1	8" BOND BEAM W/ (2)-#5 CONT	(1) #5	A	
L2	16" BOND BEAM W/ (2)-#5 CON	(1) #5	A	

WOOD COLUMN SCHEDULE					
MARK	SIZE	GRADE	TOP CONNECTION	BOTTOM CONNECTION	REMARKS
WC1	6X6 TIMBER	SPF No.1/No.2	CCQ	ABU	GALVANIZE CONNECTIONS WHEN EXPOSED TO WEATHER

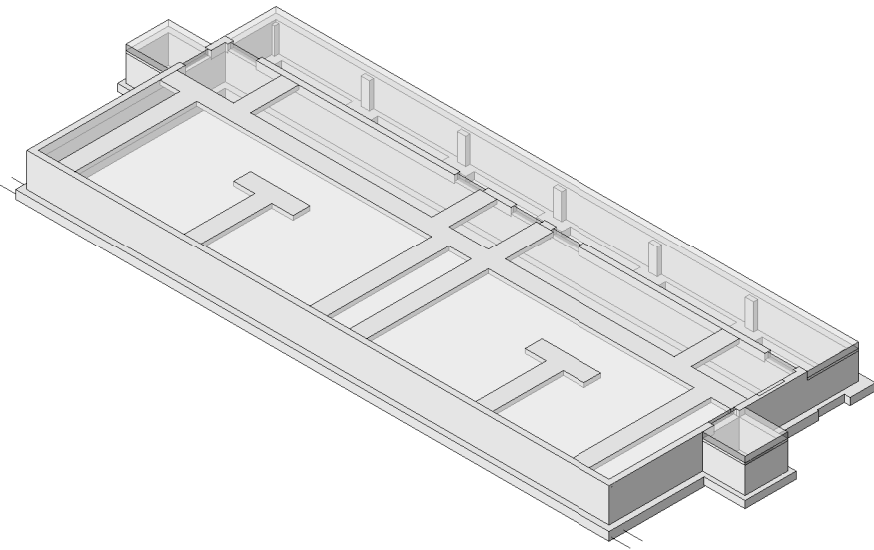
WOOD HEADER SCHEDULE					
MARK	SIZE	GRADE	JAMB STUDS	KING STUDS	REMARKS
H1	(3) 2x8	SPF	(1) 2x	(1) 2x	

ULTIMATE ROOF SURFACE PRESSURE (PSF)			
AREA (SF)	10.0	50.0	100.0
NEGATIVE ZONE 1	-27.0	-25.3	-24.5
NEGATIVE ZONE 2	-47.0	-38.3	-34.5
NEGATIVE ZONE 3	-69.5	-59.0	-54.5
POSITIVE ZONE 1	17.0	16.0	16.0
POSITIVE ZONES 2 & 3	-	-	-
OVERHANG ZONE 1 & 2	-55.0	-55.0	-55.0
OVERHANG ZONE 3	-92.5	-71.5	-62.5
ULTIMATE PARAPET SURFACE PRESSURE (PSF)			
AREA (SF)	10.0	50.0	100.0
CASE A: INTERIOR ZONE	0.0	0.0	0.0
CASE A: CORNER ZONE	0.0	0.0	0.0
CASE B: INTERIOR ZONE	0.0	0.0	0.0
CASE B: CORNER ZONE	0.0	0.0	0.0
ULTIMATE WALL SURFACE PRESSURE (PSF)			
AREA (SF)	10.0	100.0	200.0
NEGATIVE ZONE 4	-32.0	-27.6	-26.3
NEGATIVE ZONE 5	-39.5	-30.7	-28.0
POSITIVE ZONE 4 & 5	29.5	25.1	23.8

NOTE:
1. REFER TO "WIND LOADS AT COMPONENTS AND CLADDING" FOR DEFINITIONS.
(1) THROUGH (5) INDICATES WIND LOAD ZONES.
2. NOTATION:
"a" 10 PERCENT OF LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4" OF LEAST HORIZONTAL DIMENSION OR 3 FT.
"h" MEAN ROOF HEIGHT, IN FEET, EXCEPT THAT EAVE HEIGHT SHALL BE USED FOR $\phi \leq 10^\circ$
"O" ANGLE OF PLANE OF ROOF FROM HORIZONTAL, IN DEGREES.



2023-06-30 Bid & Permit Set



- FOUNDATION PLAN NOTES:**
1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
 2. SEE SHEET S3.0 FOR FOUNDATION WALL CONSTRUCTION JOINTS AND TYPICAL REINFORCING DETAILS.
 3. TOP OF EXTERIOR FOOTING ELEVATION = 96'-0" UNO.
 4. TOP OF INTERIOR FOOTING ELEVATION = 100'-0" UNO.
 5. TOP OF PIER ELEVATION = 99'-4" UNO.
 6. TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNO.
 7. SEE MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS REQUIRED FOR MECHANICAL EQUIPMENT.
 8. SEE ARCHITECTURAL DRAWINGS FOR DOOR OPENING SIZES AND LOCATIONS IN WALLS.



Architect
259 South Stree, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. 22005

RIVERSIDE PARK
RESTROOMS

NEW CONSTRUCTION

600 Labaree St
Watertown, WI

Sheet Title

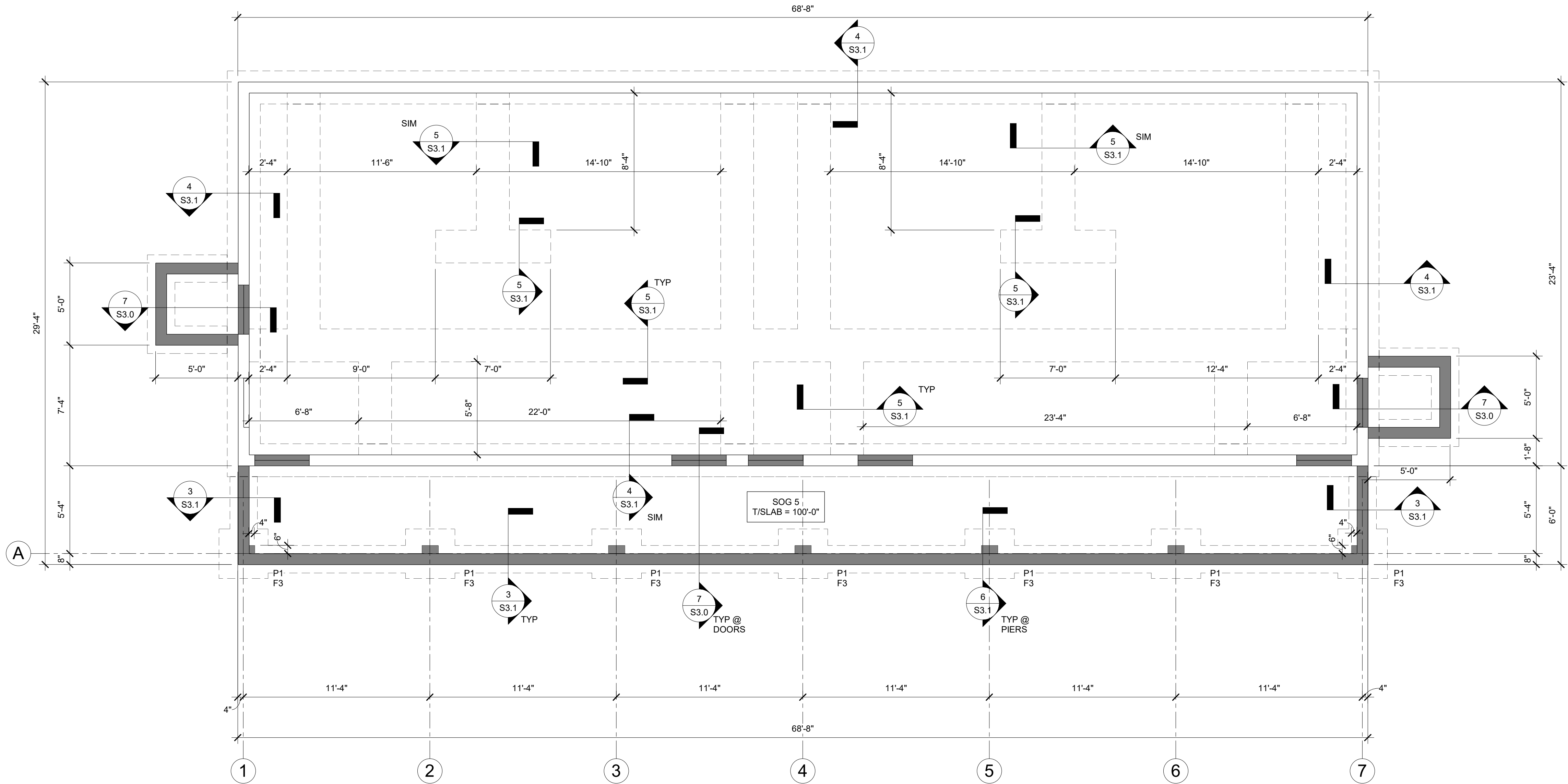
FOUNDATION PLAN

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.

S1.0



1
S1.0

FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

CORE4engineering
| Client-focused | Creative |
| Collaborative | Communicative |
12308 Corporate Pkwy, Suite 450
Mequon, WI 53092 | 262.236.9372
C4E Project #: 21325

2023-06-30 Bid & Permit Set



Architect
259 South Stree, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. **22005**
**RIVERSIDE PARK
RESTROOMS**
NEW CONSTRUCTION
600 Labaree St
Watertown, WI

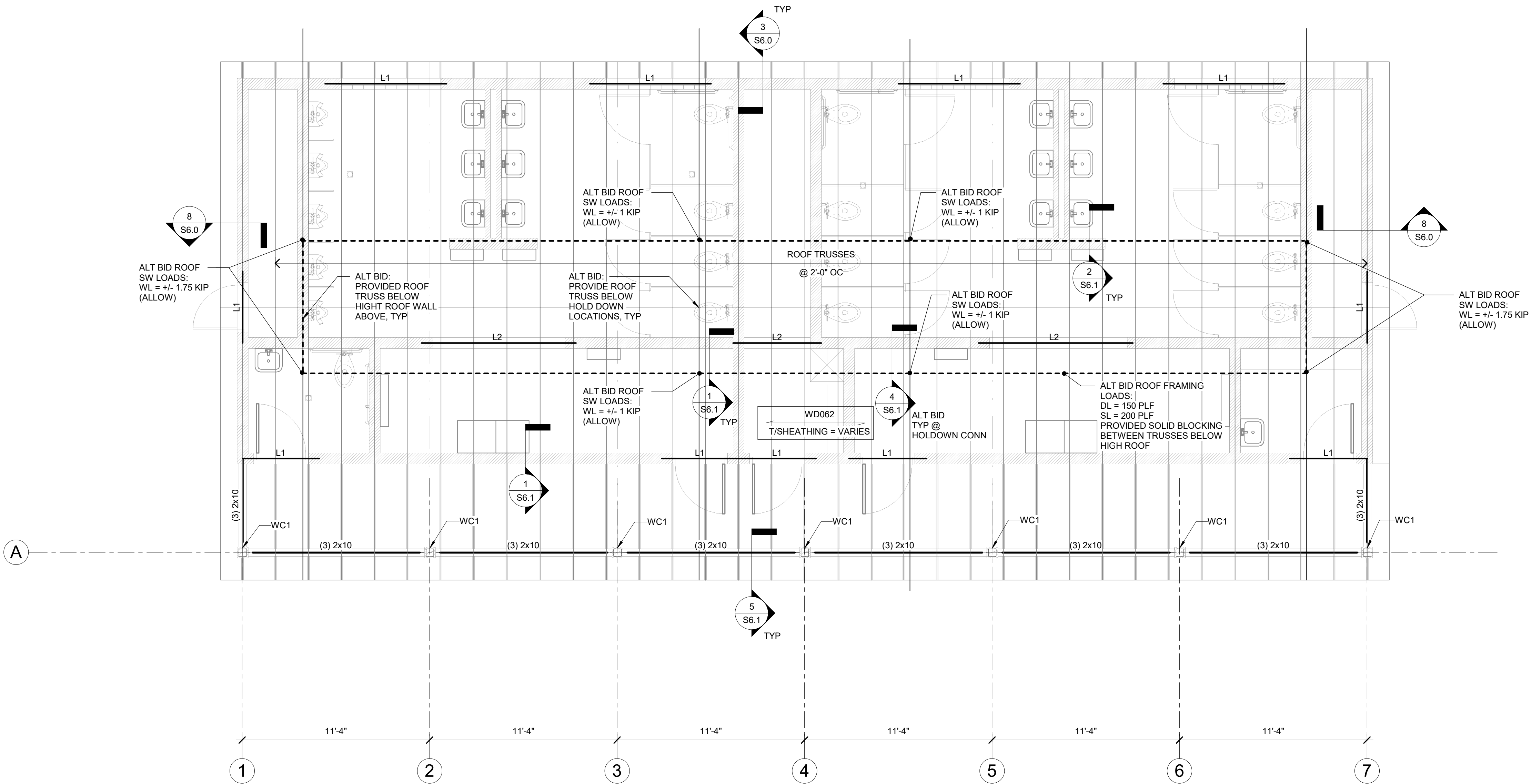
Sheet Title
ROOF FRAMING PLAN

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.
S1.1

- HIGH ROOF PLAN NOTES:**
- SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2 FOR SCHEDULES.
 - SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
 - SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
 - SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
 - COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
 - ALL HEADERS AND BEAMS TO BE DROPPED UNO.
 - ALL WOOD STUD BEARING WALLS TO BE 2x6 SPF No. 1/No.2 @ 16" OC.



1
S1.1
ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

CORE4engineering
| Client-focused | Creative |
| Collaborative | Communicative |
12308 Corporate Pkwy, Suite 450
Mequon, WI 53092 | 262.236.9372
C4E Project #: 21325

2023-06-30 Bid & Permit Set

ROOF PLAN NOTES:
1. SEE SHEET S0.1 FOR GENERAL NOTES AND S0.2FOR SCHEDULES.
2. SEE SHEET S4.0 FOR TYPICAL MASONRY SECTIONS AND DETAILS, INCLUDING TYPICAL WALL REINFORCING.
3. SEE SHEET S6.0 FOR TYPICAL WOOD SECTIONS AND DETAILS.
4. SEE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES, HEEL HEIGHTS, TRUSS BEARING ELEVATIONS AND ROOF SLOPES.
5. COORDINATE FINAL SIZE AND LOCATION OF OPENINGS, EQUIPMENT AND ROOF DRAINS WITH MECHANICAL AND PLUMBING CONTRACTORS.
6. PROVIDE L1 LINTEL FOR ALL LOUVER OPENINGS. COORDINATE WITH ARCH & MEP FOR LOCATIONS AND SIZES.



Architect
259 South Stree, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. 22005

RIVERSIDE PARK
RESTROOMS

NEW CONSTRUCTION

600 Labaree St
Watertown, WI

Sheet Title

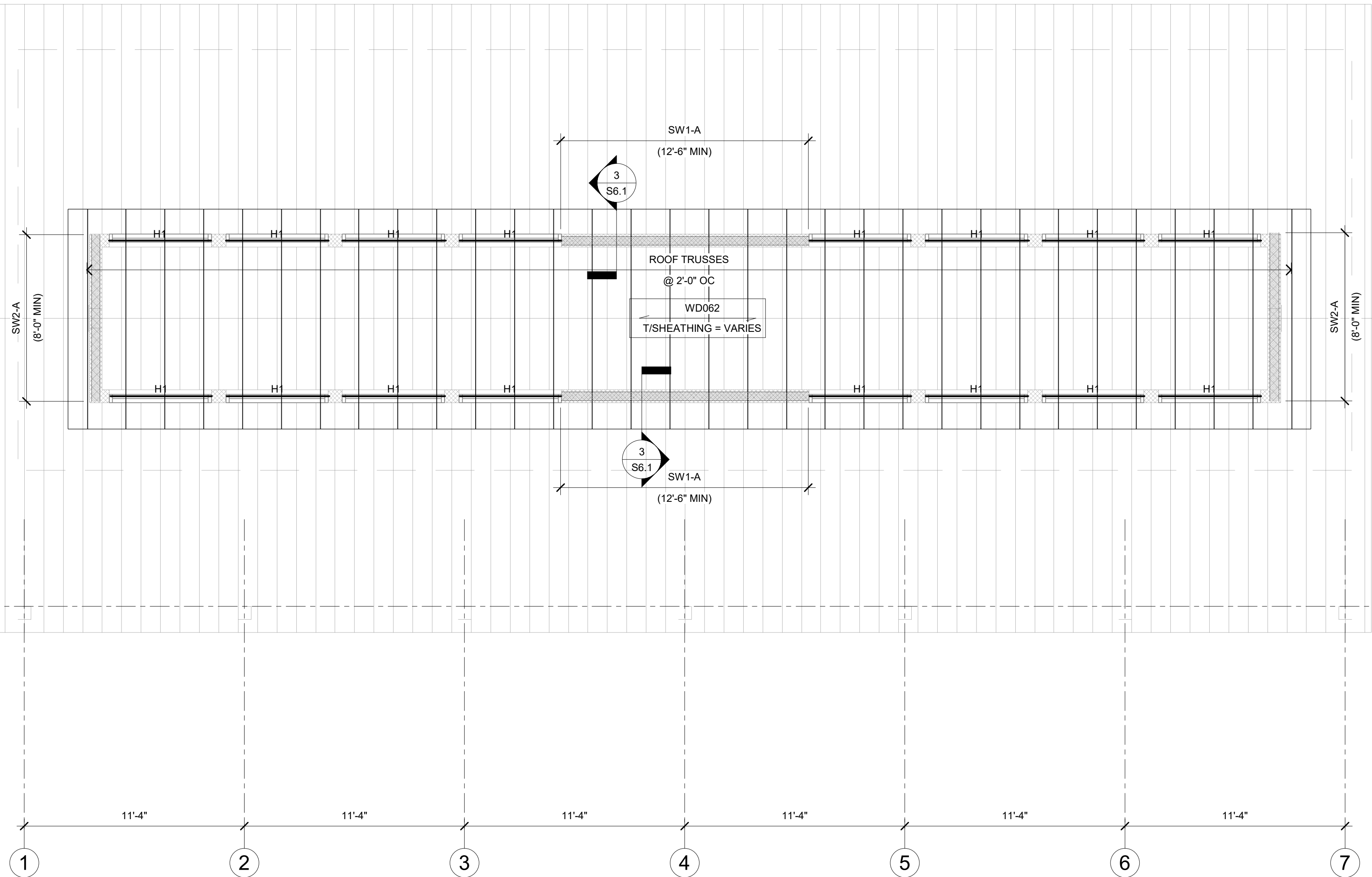
HIGH ROOF FRAMING
PLAN

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.

S1.2



1
S1.2

HIGH ROOF FRAMING PLAN - ALTERNATE BID

SCALE: 1/4" = 1'-0"

CORE4engineering
| Client-focused | Creative |
| Collaborative | Communicative |
12308 Corporate Pkwy, Suite 450
Mequon, WI 53092 | 262.236.9372
C4E Project #: 21325

REINFORCING LAP SPlice LENGTH SCHEDULE										
f _c (PSI)	LOCATION	BAR SIZE								
		#3	#4	#5	#6	#7	#8	#9	#10	#11
3,000	TOP BARS	28	38	47	56	81	93	105	118	131
	OTHERS	22	29	36	43	63	72	81	91	101
4,000	TOP BARS	25	33	41	49	71	81	91	102	114
	OTHERS	19	25	31	37	54	62	70	79	87

NOTES:

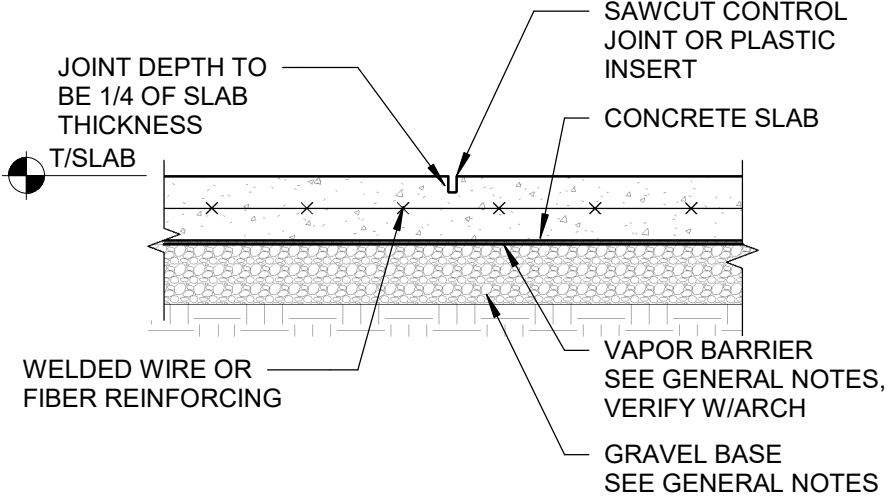
- TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE.
- TENSION LAP SPlice LENGTHS ARE CALCULATED PER ACI 318-14. LENGTHS ARE IN INCHES.
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BARS.
- SPlice LENGTHS IN THIS SCHEDULE ARE BASED ON CLEAR COVER AT LEAST 1.0 BAR Ø AND CLEAR SPACING AT LEAST 2.0 BAR Ø.

- SECTION 1: SLAB-ON-GRADE NOTES**
- SLAB-ON-GRADE CONSTRUCTION SHOULD CONFORM WITH THE RECOMMENDATIONS AND REQUIREMENTS SET FORTH IN THE LATEST RELEASE OF ACI 302 GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION.
 - REFER TO GEOTECHNICAL REPORT AND/OR ARCHITECTURAL DRAWINGS & SPECIFICATIONS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, MUD SLAB AND/OR VAPOR RETARDER REQUIREMENTS.
 - THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
 - REFER TO PLANS FOR SLAB THICKNESS ("T") AND REINFORCEMENT (WWF OR REINFORCEMENT BARS), REFER TO SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCING BARS SHALL BE CHAired BY SOIL SUPPORTED SLAB BOLSTERS.
 - PROVIDE (2) #5 x 6'-0" AT ALL RE-ENTRANT CORNERS AND OTHER SIMILAR SLAB DISCONTINUITIES.
 - UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x ("T") UNO. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

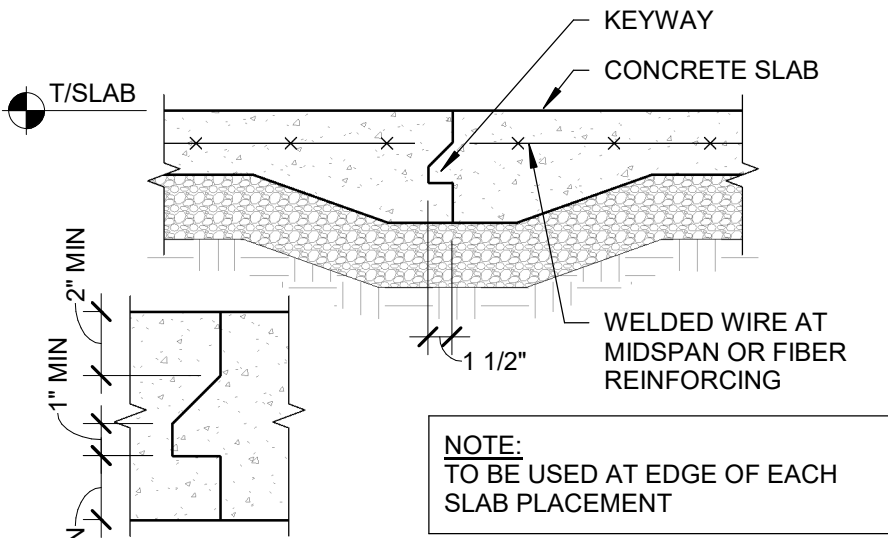
- SECTION 2: CONSTRUCTION JOINT NOTES**
- BREAK THE BOND BETWEEN NEW AND PREVIOUSLY PLACES SLABS BY SPRAYING OR BY PAINTING THE EXPOSED SIDE OF THE JOINT WITH A CURING COMPOUND, ASPHALTIC EMULSION, OR FORM OIL.

- SECTION 3: CONTROL JOINT NOTES**
- FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
 - DEPTH OF SAW-CUT SHOULD BE 1 1/4" IF PRODUCED USING THE EARLY ENTRY DRY-CUT PROCESS AND "T"/4 (1" MIN) IF PRODUCED USING THE CONVENTIONAL WET-CUT PROCESS.
 - REFER TO SPECIFICATIONS REGARDING EPOXY RESIN OR ELASTOMERIC SEALANT REQUIREMENTS FILL CONTROL JOINTS.

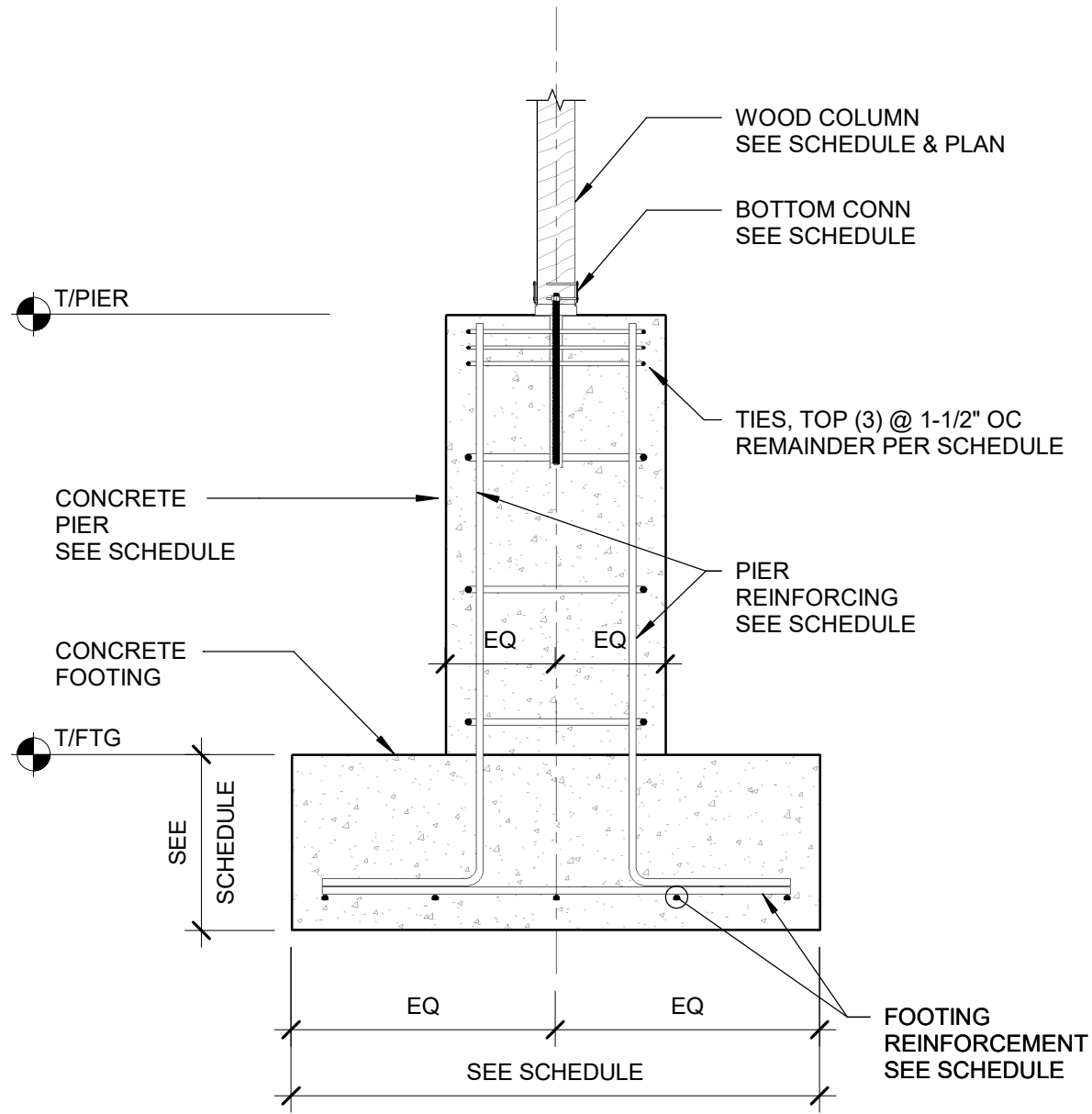
- SECTION 4: FORMED CONTROL JOINT OPTION NOTES**
- FORM CONTROL JOINTS BY INSERTING A PRE-MOLDED STRIP INTO THE FRESH CONCRETE UNTIL THE TOP SURFACE OF THE STRIP IS FLUSH WITH THE TOP SURFACE OF THE SLAB.
 - TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8" MAX RADIUS.
 - AFTER THE CONCRETE HAS CURED, REMOVE THE INSERTS AND CLEAN THE GROOVE OF LOOSE DEBRIS.



SLAB CONTROL JOINT



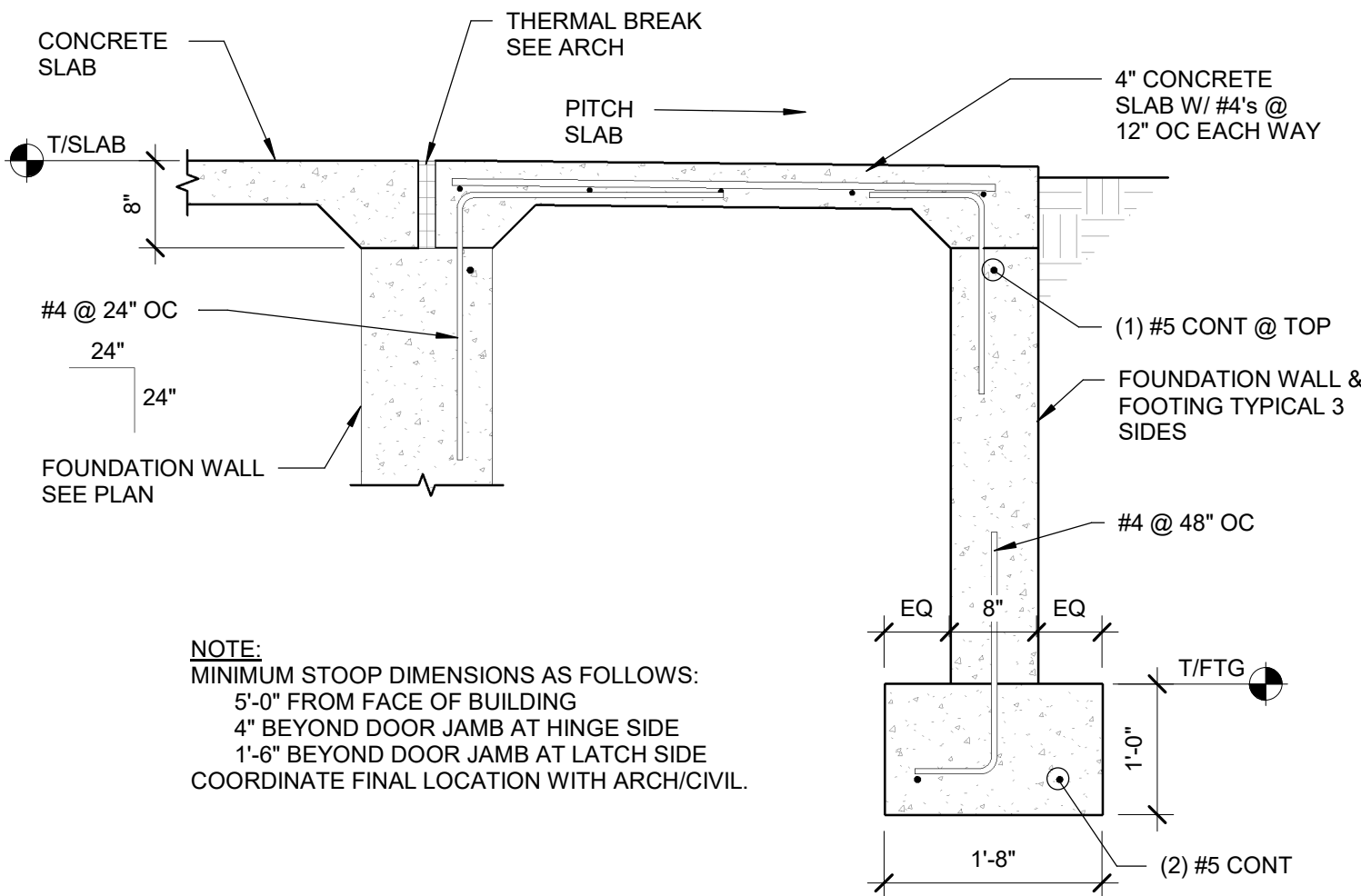
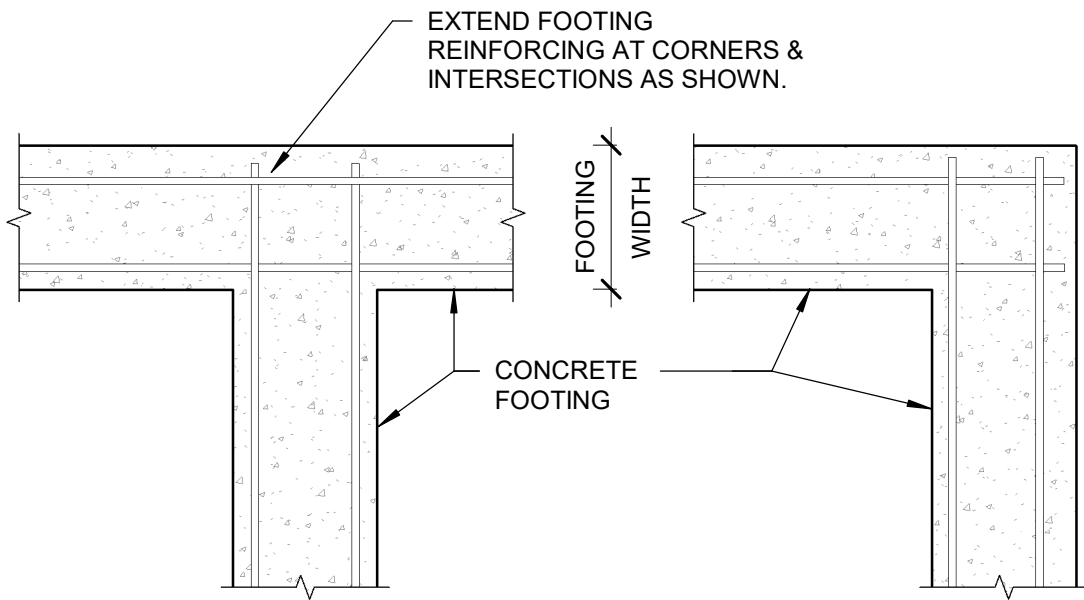
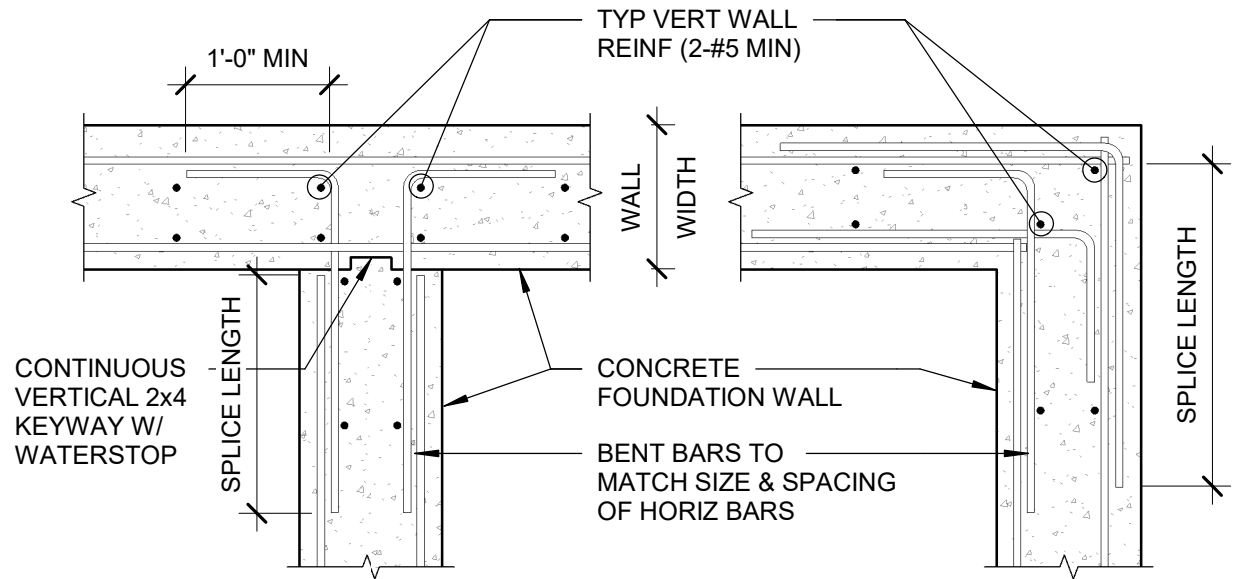
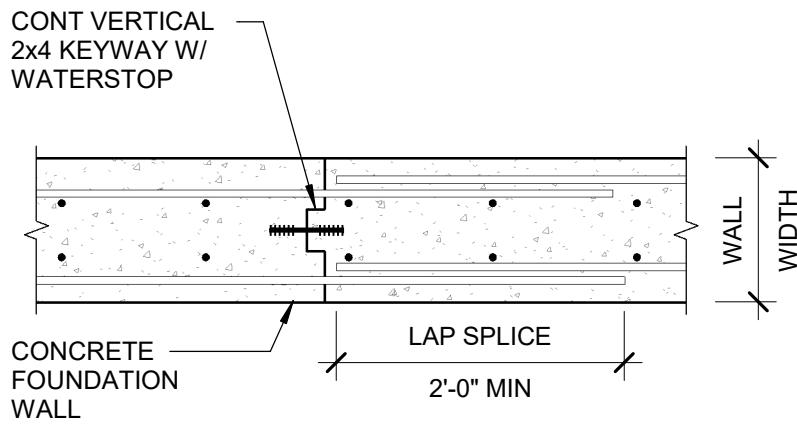
SLAB CONSTRUCTION JOINT



3 TYPICAL CONCRETE PIER DETAIL
SCALE: NTS

1 TYPICAL CONCRETE REINFORCING LAP LENGTHS
SCALE: NTS

2 TYPICAL SLAB JOINTS
SCALE: NTS



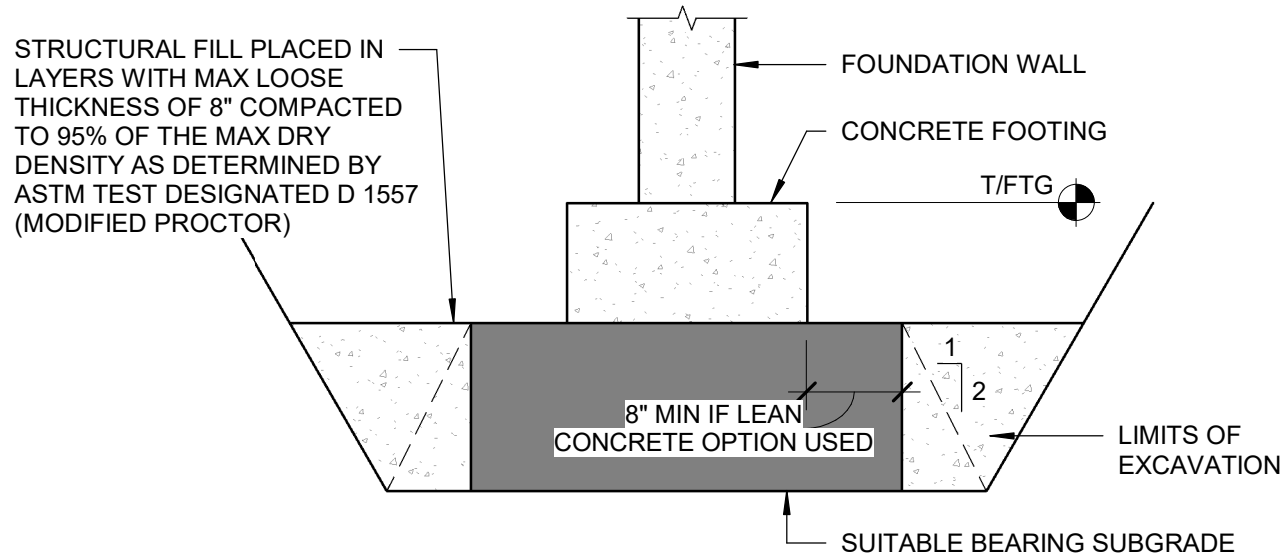
NOTE:
MINIMUM STOOP DIMENSIONS AS FOLLOWS:
5'-0" FROM FACE OF BUILDING
4" BEYOND DOOR JAMB AT HINGE SIDE
1'-6" BEYOND DOOR JAMB AT LATCH SIDE
COORDINATE FINAL LOCATION WITH ARCH/CIVIL.

4 TYPICAL WALL CONSTRUCTION JOINT
SCALE: NTS

5 TYPICAL WALL REINFORCING
SCALE: NTS

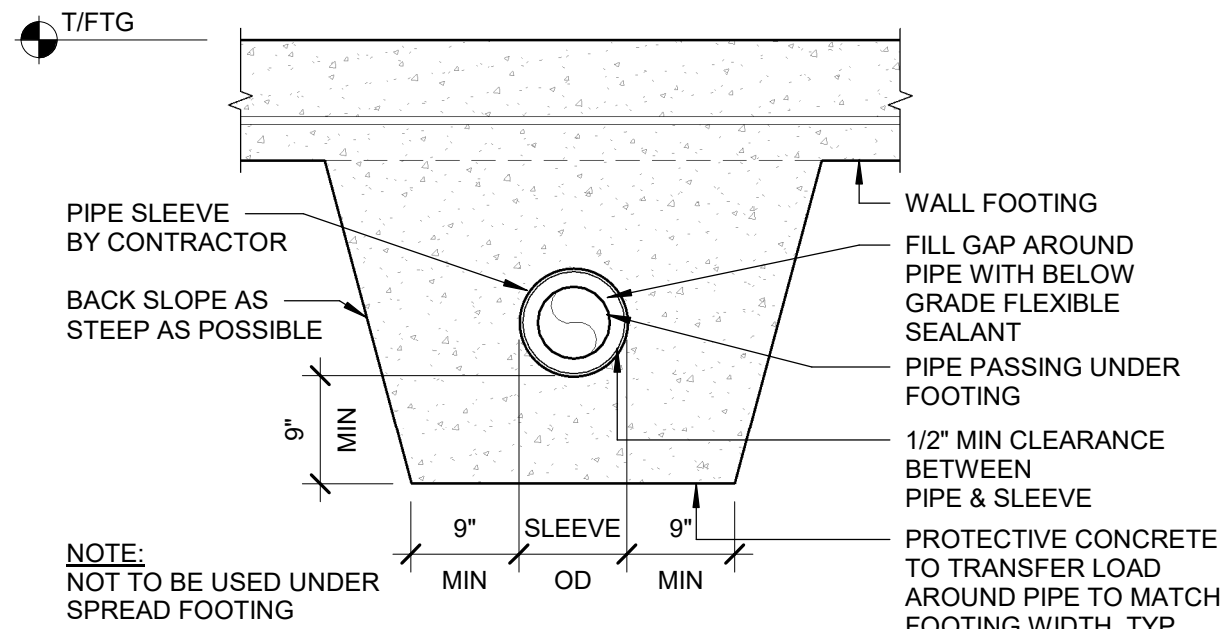
6 TYPICAL FOOTING REINFORCING
SCALE: NTS

7 TYPICAL STOOP SECTION
SCALE: NTS

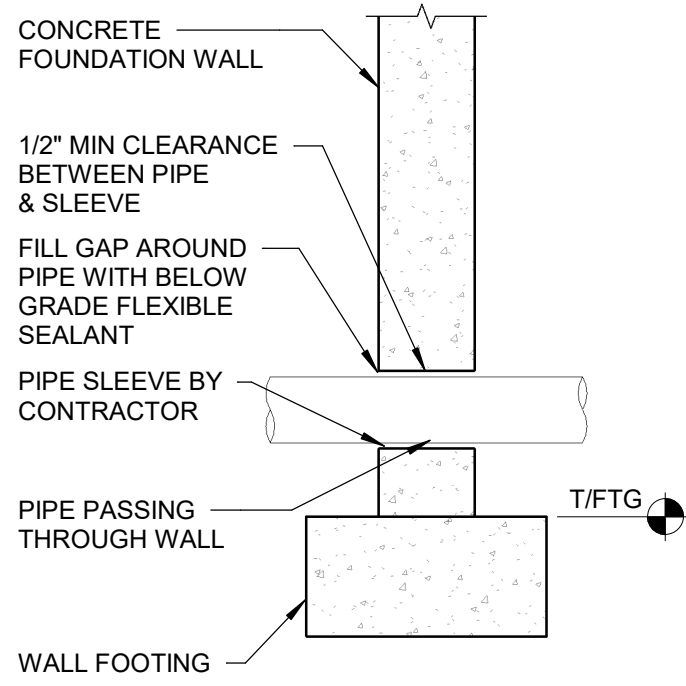


- NOTES:**
- CONTRACTOR'S OPTION: ELIMINATE STRUCTURAL FILL BY LOWERING DESIGNED FOOTING ELEVATION SO THAT FOOTING RESTS DIRECTLY ON SUITABLE BEARING SUBGRADE. PROVIDE LEAN CONCRETE (f_c = 500 PSI MIN) UNDER THE FOOTING AS SHOWN HATCHED ABOVE, OR INCREASE FOOTING THICKNESS TO REACH SUITABLE BEARING SUBGRADE.
 - THIS DETAIL APPLIES ONLY AT THOSE LOCATIONS WHERE GEOTECH ENGINEER DEEMS SOILS AT DESIGNED FOOTING ELEVATIONS ARE INADEQUATE FOR FOOTING SUPPORT. WHERE THIS WORK IS REQUIRED, CONTRACTOR WILL BE COMPENSATED ON A PRE-ESTABLISHED UNIT COST AGREED UPON BY THE CONTRACTOR, ARCHITECT/ENGINEER, AND OWNER.

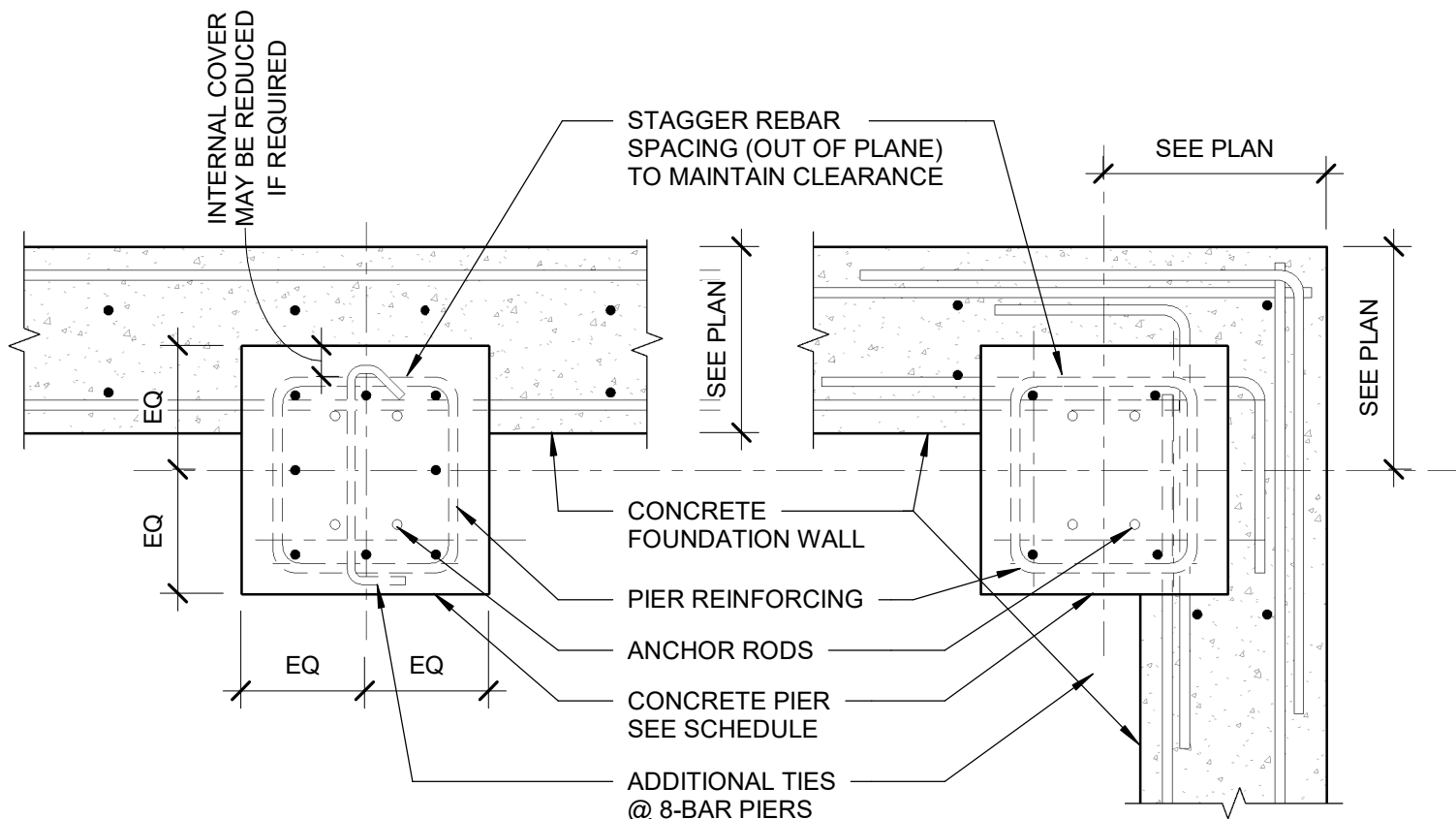
8 TYPICAL OVER EXCAVATION DETAIL
SCALE: NTS



UNDER WALL FOOTING



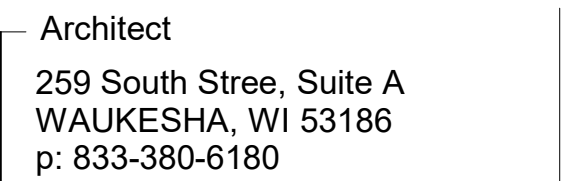
THROUGH WALL



10 TYPICAL PIER AT WALL AND CORNER
SCALE: NTS

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set



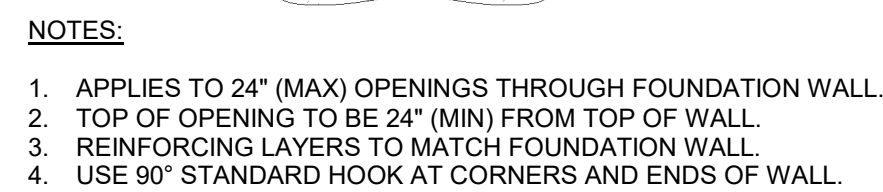
RIVERSIDE PARK RESTROOMS

600 Labaree St
Watertown, WI

CONCRETE SECTIONS & DETAILS

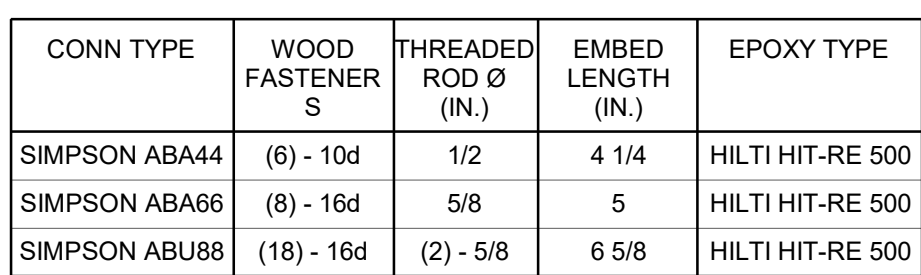
[illegible]

S3.1



1
S3.1

WALI
SCALE: NTS



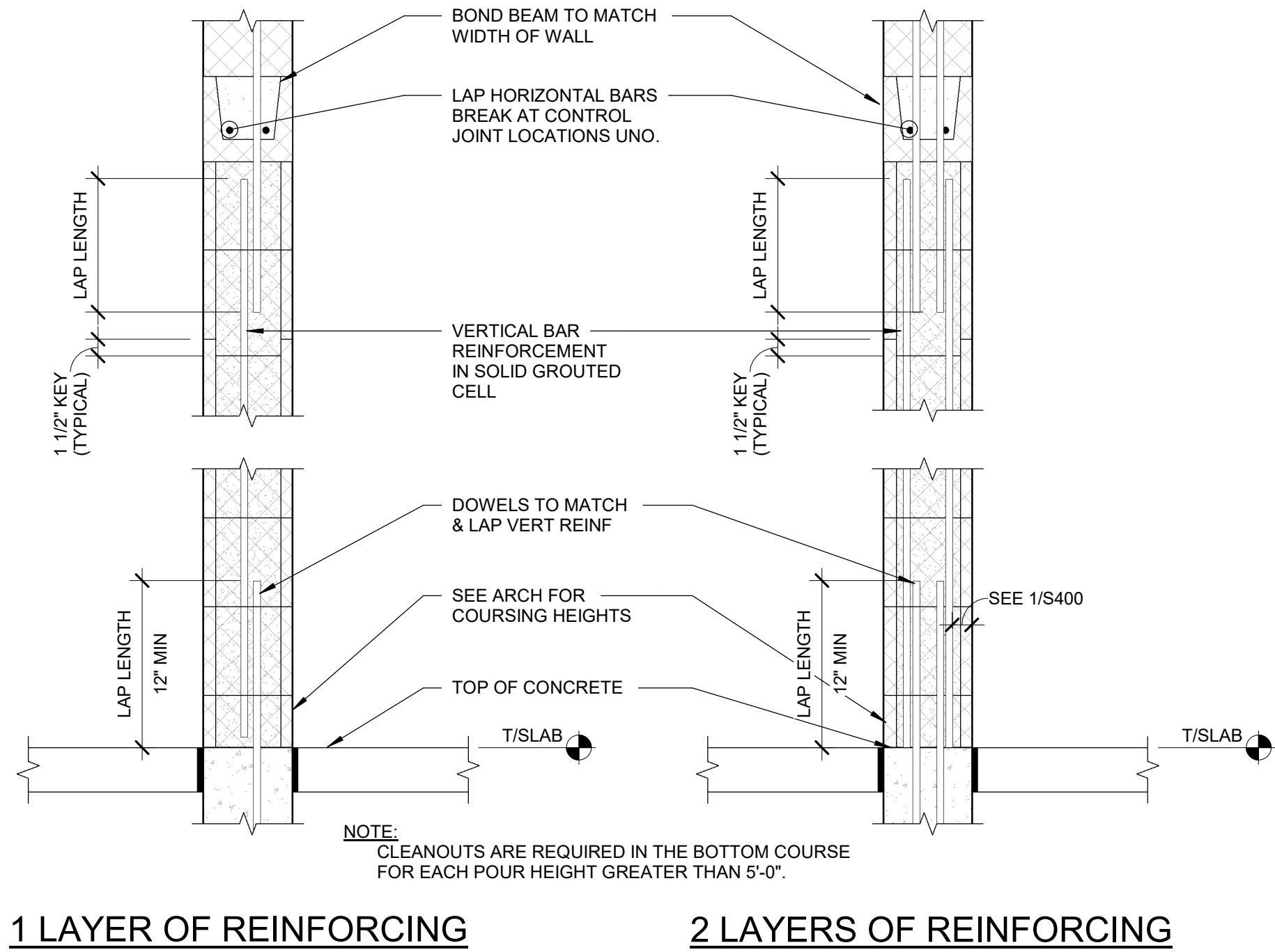
2
S3.1

TYPE
SCALE: NTS



6
S3.1

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set



1 LAYER OF REINFORCING

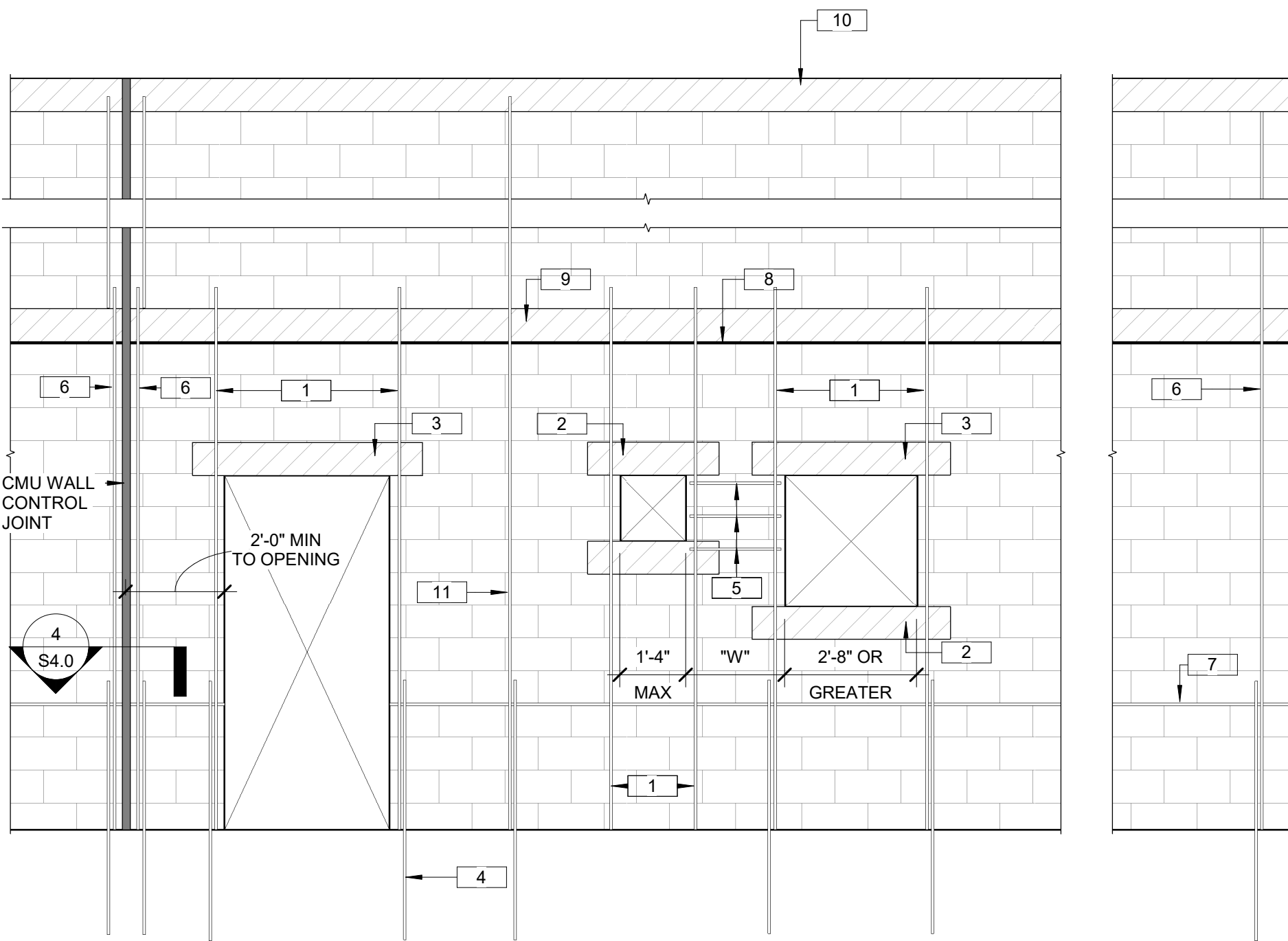
2 LAYERS OF REINFORCING

TYPICAL REINFORCED CMU WALL
CONSTRUCTION DETAIL

SCALE: NTS

NOTES:

- JAMB REINFORCEMENT PER LINTEL SCHEDULE OR LINTEL DETAILS. MIN (1) #5 EA JAMB.
- 8" BOND BEAM W/ (1) #5 CONT.
- LINTEL SEE SCHEDULE
- DOWELS TO MATCH & LAP VERTICAL REINFORCEMENT.
- WHEN "W" IS LESS THAN 2'-0" AT 8" CMU WALL AND 3'-0" AT 12" CMU WALL, ADD 1/4" CLOSED TIE SETS AT 8" OC.
- REINFORCE VERT CELLS AT END OF WALL AND ADJACENT TO CONTROL JOINTS.
- HORIZ JOINT REINFORCEMENT, SEE GENERAL NOTES.
- ROOF OR FLOOR LINE BEYOND.
- 8" BOND BEAM W/ (2) #4 CONT AT ROOF OR FLOOR LINE, UNO.
- 8" BOND BEAM W/ (2) #4 CONT AT TOP OF WALL, UNO.
- #5 @ 48" OC TYPICAL WALL REINFORCING, UNO.



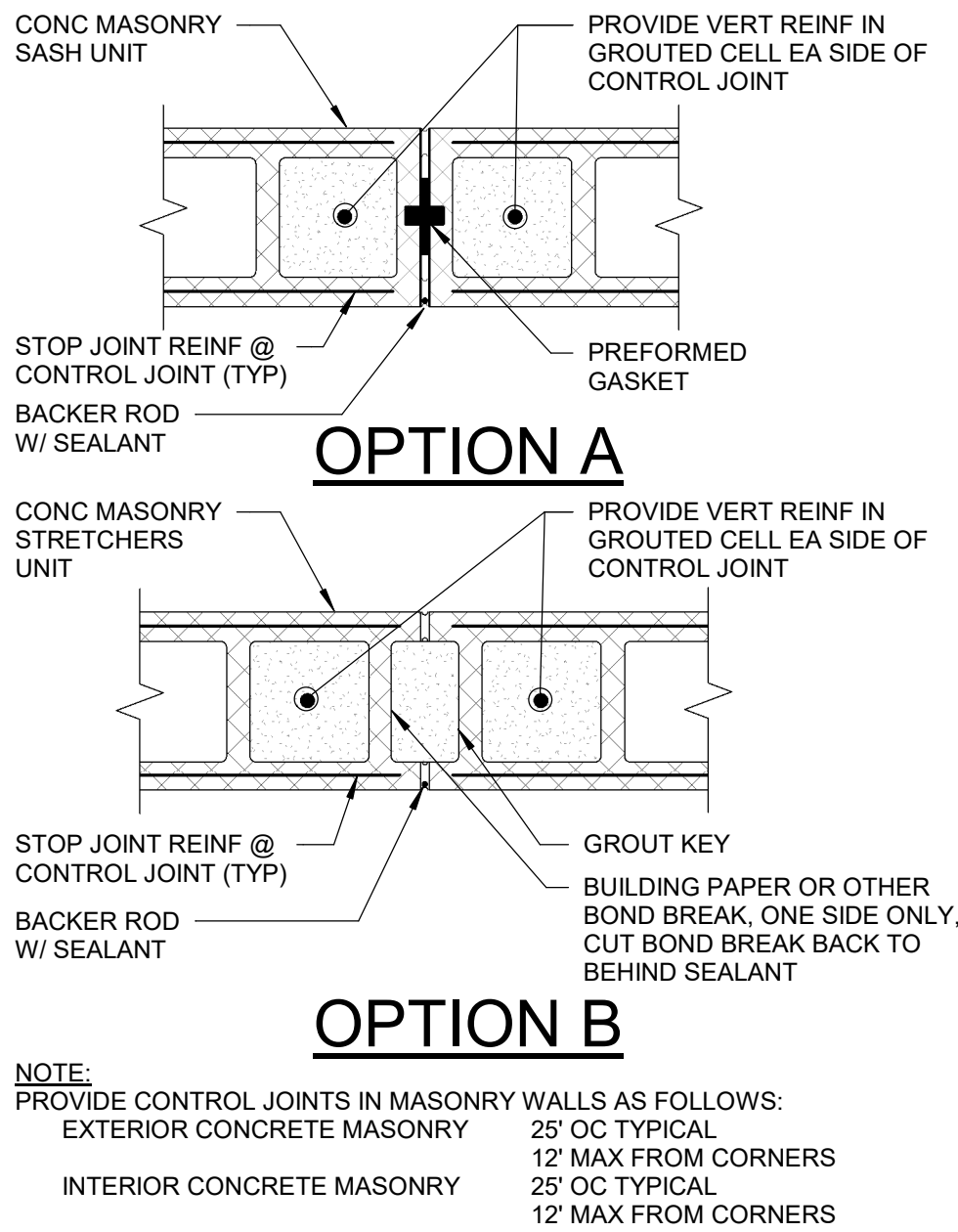
TYP CMU WALL REINFORCEMENT

SCALE: NTS

TYPICAL MASONRY
REINFORCING LAP LENGTHS

SCALE: NTS

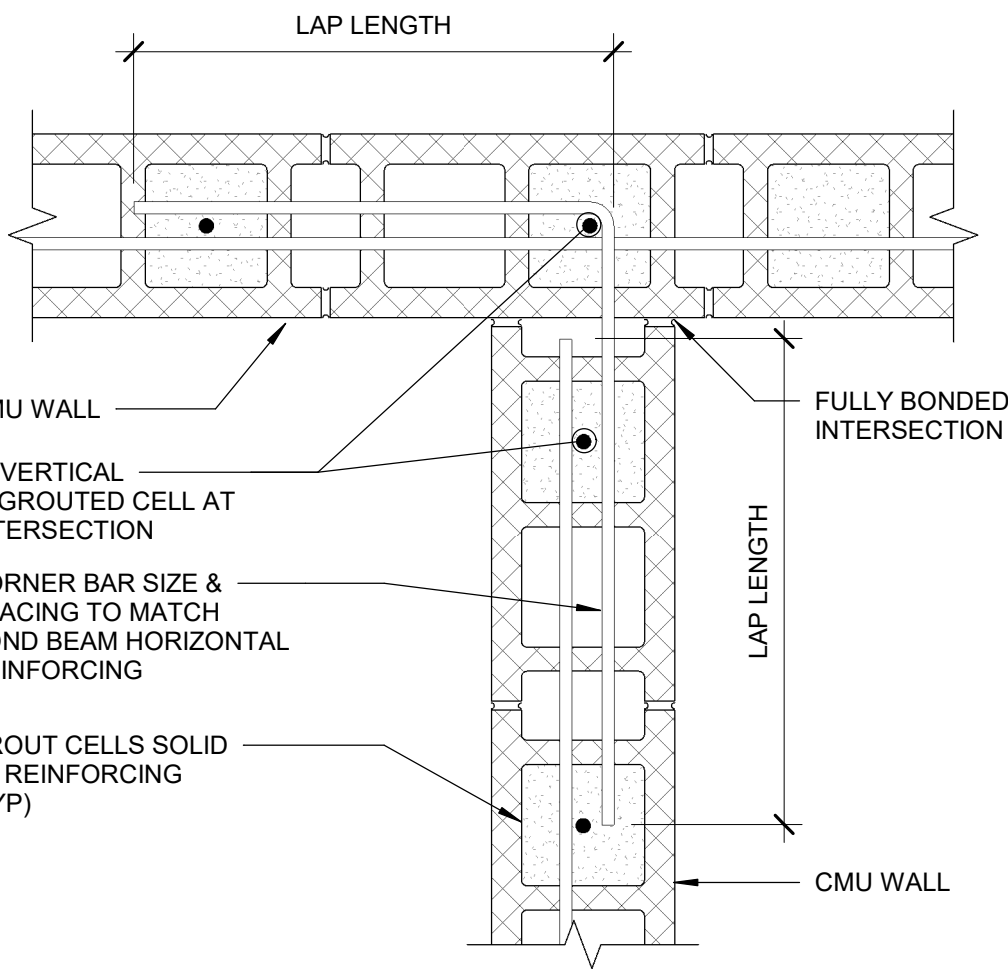
MASONRY BAR LAP LENGTHS (Ld) F'm = 2,000 psi					
BAR SIZE	8" & 10" BLOCK CLEAR COVER ≥ 1 3/4"	12" BLOCK CLEAR COVER ≥ 2"	CENTERED IN 8" BLOCK	CENTERED IN 10" BLOCK	CENTERED IN 12" BLOCK
#3	15"	13"	8"	8"	8"
#4	25"	22"	13"	10"	10"
#5	39"	35"	20"	16"	13"
#6	MECH SP	MECH SP	38"	29"	24"
#7	MECH SP	MECH SP	MECH SP	40"	33"
#8	MECH SP	MECH SP	MECH SP	MECH SP	MECH SP
#9	NA	MECH SP	NA	MECH SP	MECH SP
#10	NA	MECH SP	NA	MECH SP	MECH SP
#11	NA	MECH SP	NA	NA	MECH SP



NOTE:
PROVIDE CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS:
EXTERIOR CONCRETE MASONRY 25' OC TYPICAL
12' MAX FROM CORNERS
INTERIOR CONCRETE MASONRY 25' OC TYPICAL
12' MAX FROM CORNERS

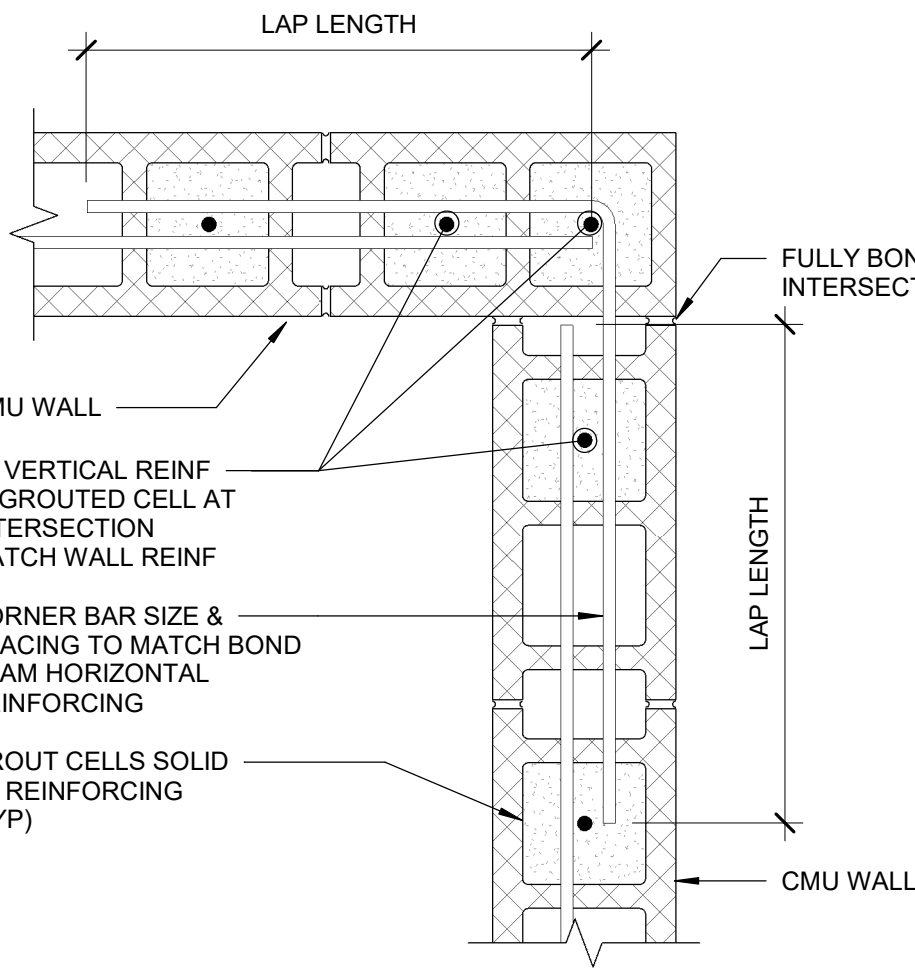
CMU CONTROL JOINT

SCALE: NTS



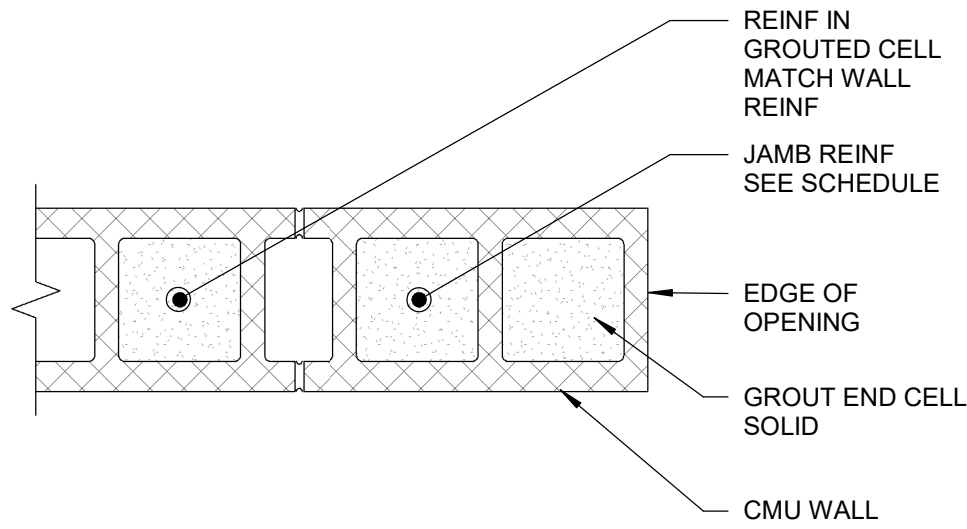
CMU WALL INTERSECTION

SCALE: NTS



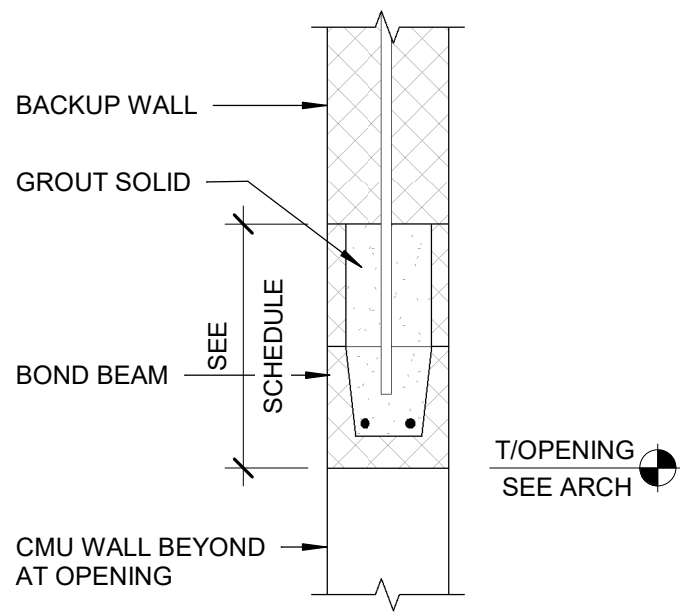
CMU WALL CORNER

SCALE: NTS



CMU WALL END

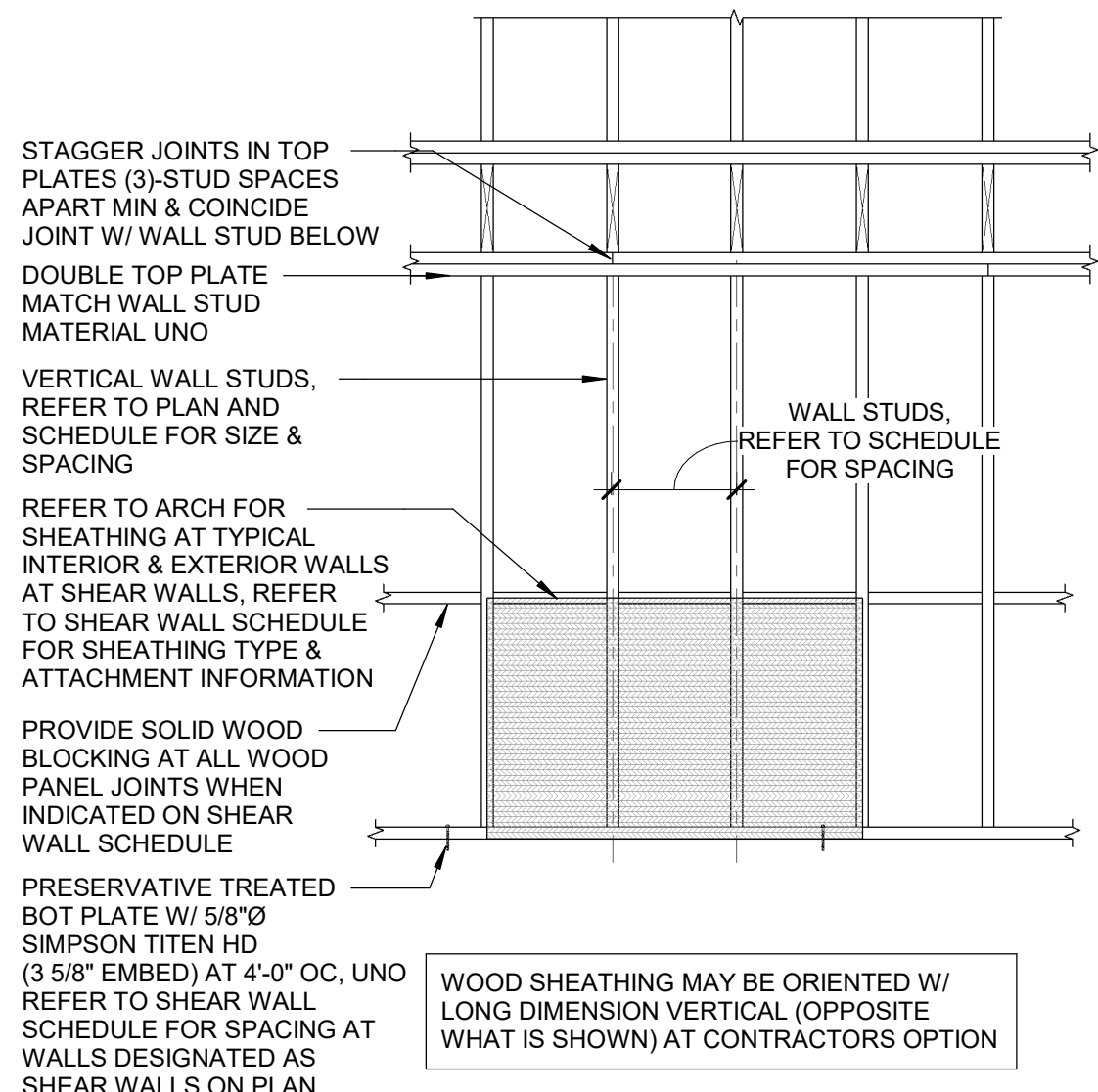
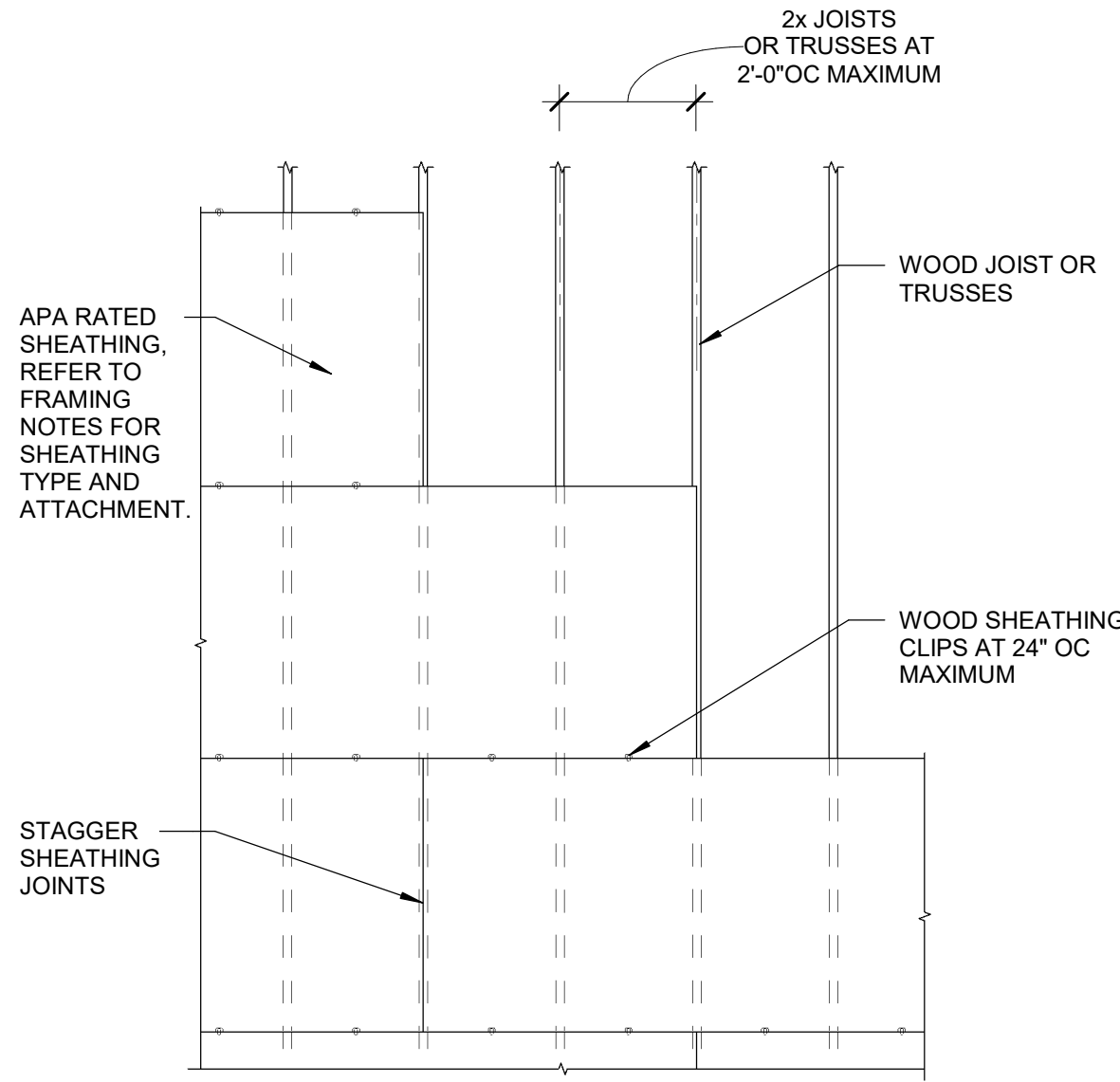
SCALE: NTS



LINTEL TYPE A

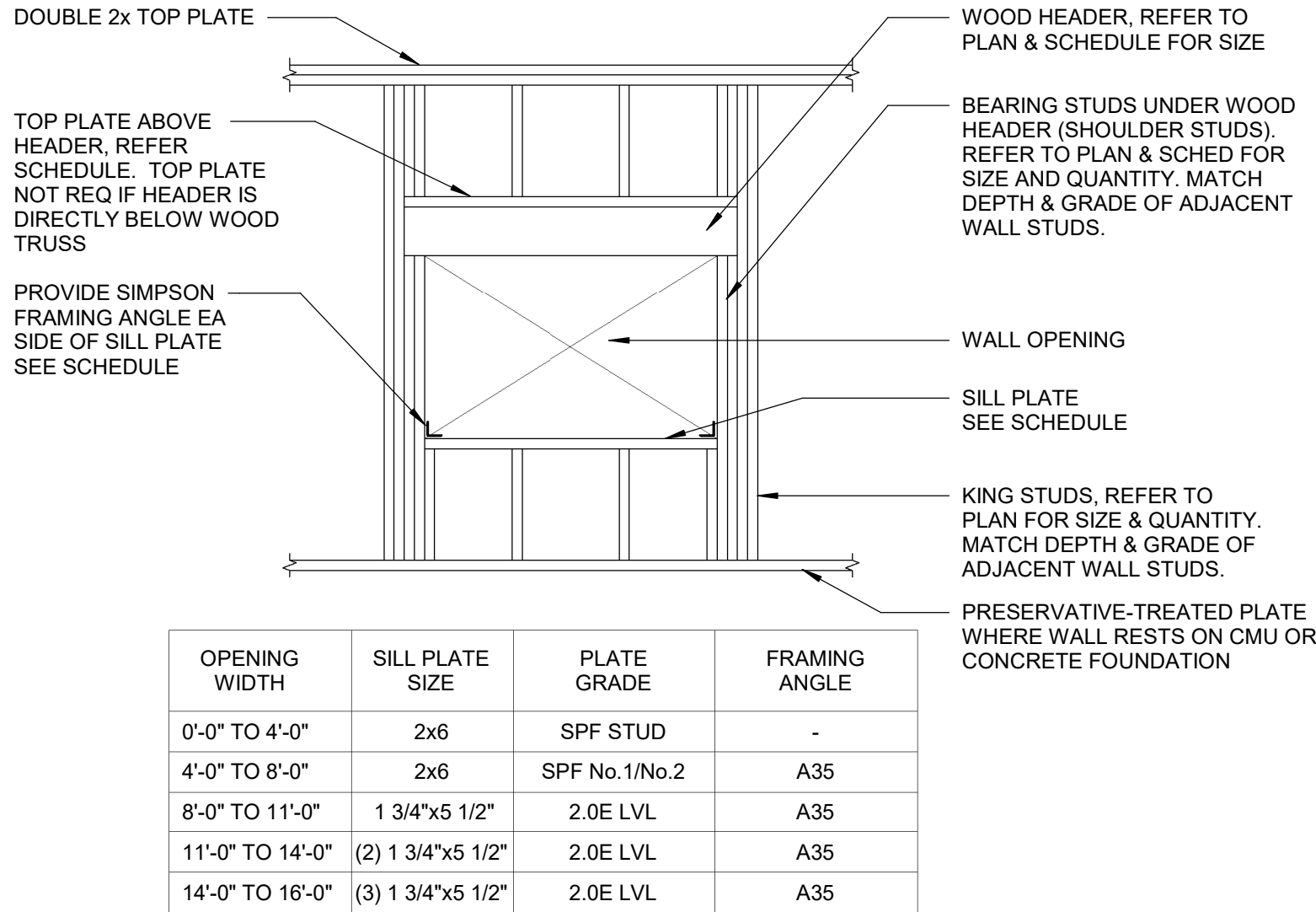
SCALE: NTS

TYPICAL FASTENING SCHEDULE		
CONNECTION TYPE:	NAILING - COMMON NAILS: (UNLESS OTHER CONNECTION IS REQUIRED)	NAILING - STRIP NAILS: (UNLESS OTHER CONNECTION IS REQUIRED)
DOUBLE TOP PLATES, FACE NAIL	16d COMMON (3-1/2"x0.135") @ 16" OC	3"x0.131" @ 12" OC
DOUBLE TOP PLATES, LAP SPlice, FACE NAIL	(8) 16d COMMON (3-1/2"x0.162")	(12) 3"x0.131"
TOP PLATES, LAPS & INTERSECTIONS, FACE NAIL	(2) 16d COMMON (3-1/2"x0.162")	(3) 3"x0.131"
TOP PLATE TO STUD, END NAIL	(2) 16d COMMON (3-1/2"x0.162")	3"x0.131"
CONT HEADER TO STUD, TOENAIL	(4) 8d COMMON (2-1/2"x0.131")	--
STUD TO SOLE PLATE	(4) 8d COMMON (2-1/2"x0.131") TOENAIL	(4) 3"x0.131" TOENAIL
	(2) 16d COMMON (3-1/2"x0.162")	(3) 3"x0.131" END NAIL
BUILT-UP STUD COLUMNS, FACE NAIL	10d COMMON (3"x0.148") @ 16" OC	3"x0.131" @ 12" OC STAGGERED
BUILT-UP CORNER STUDS & SUPPORT STUDS	16d COMMON (3-1/2"x0.162") @ 24" OC STAGGERED	3"x0.131" @ 16" OC STAGGERED
BUILT-UP HEADER, FACE NAIL	16d COMMON (3-1/2"x0.162") @ 12" OC ALONG EACH EDGE	--
PLYWOOD/OSB ROOF SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	8d COMMON (2-1/2"x0.131") @ 6" OC AT SUPPORTED PANEL EDGES	3"x0.131" @ 6" OC AT SUPPORTED PANEL EDGES
	8d COMMON (2-1/2"x0.131") @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS	3"x0.131" @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS
JOIST TO SILL OR GIRDER, TOENAIL	(3) 8d COMMON (2-1/2"x0.131")	(3) 3"x0.131"
RIM JOIST TO TOP PLATE, TOENAIL	8d COMMON (2-1/2"x0.131") @ 6" OC	3"x0.131" @ 6" OC
BLOCKING BTWN JOIST/RAFTERS TO TOP PL. TOENAIL	(3) 8d COMMON (2-1/2"x0.131")	(3) 3"x0.131"
JOIST TO RIM BOARD, FACE NAIL	(3) 16d COMMON (3-1/2"x0.162")	(4) 3"x0.131"
SOLE PLATE TO JOIST/BLOCKING, FACE NAIL	16d COMMON (3-1/2"x0.135") @ 16" OC	3"x0.131" @ 8" OC
FLOOR SHEATHING (APA RATED) UNLESS NOTED OTHERWISE	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES	#8 SCREWS @ 6" OC AT SUPPORTED PANEL EDGES
	#8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE	#8 SCREWS @ 12" OC AT INTERMEDIATE MEMBERS IN FIELD OF PANELS W/ CONSTRUCTION ADHESIVE



1 TYPICAL WOOD FASTENING SCHEDULE

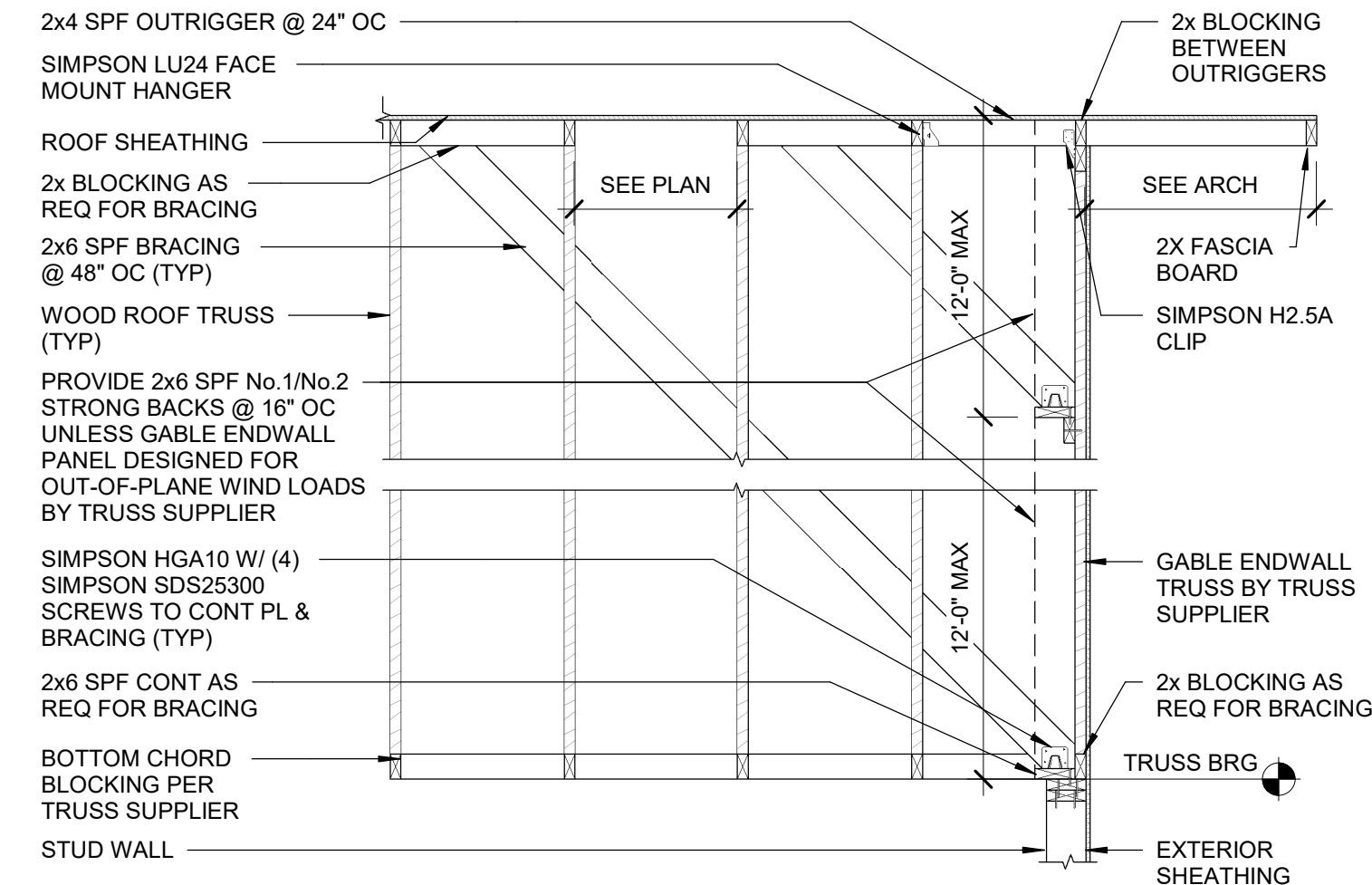
SCALE: NTS



NOTE:
USE SIMPSON HH HEADER HANGER FOR HEADER CONNECTION TO WOOD COLUMNS.

4 TYPICAL FRAMING AROUND AN OPENING IN A WOOD STUD BEARING WALL

SCALE: NTS

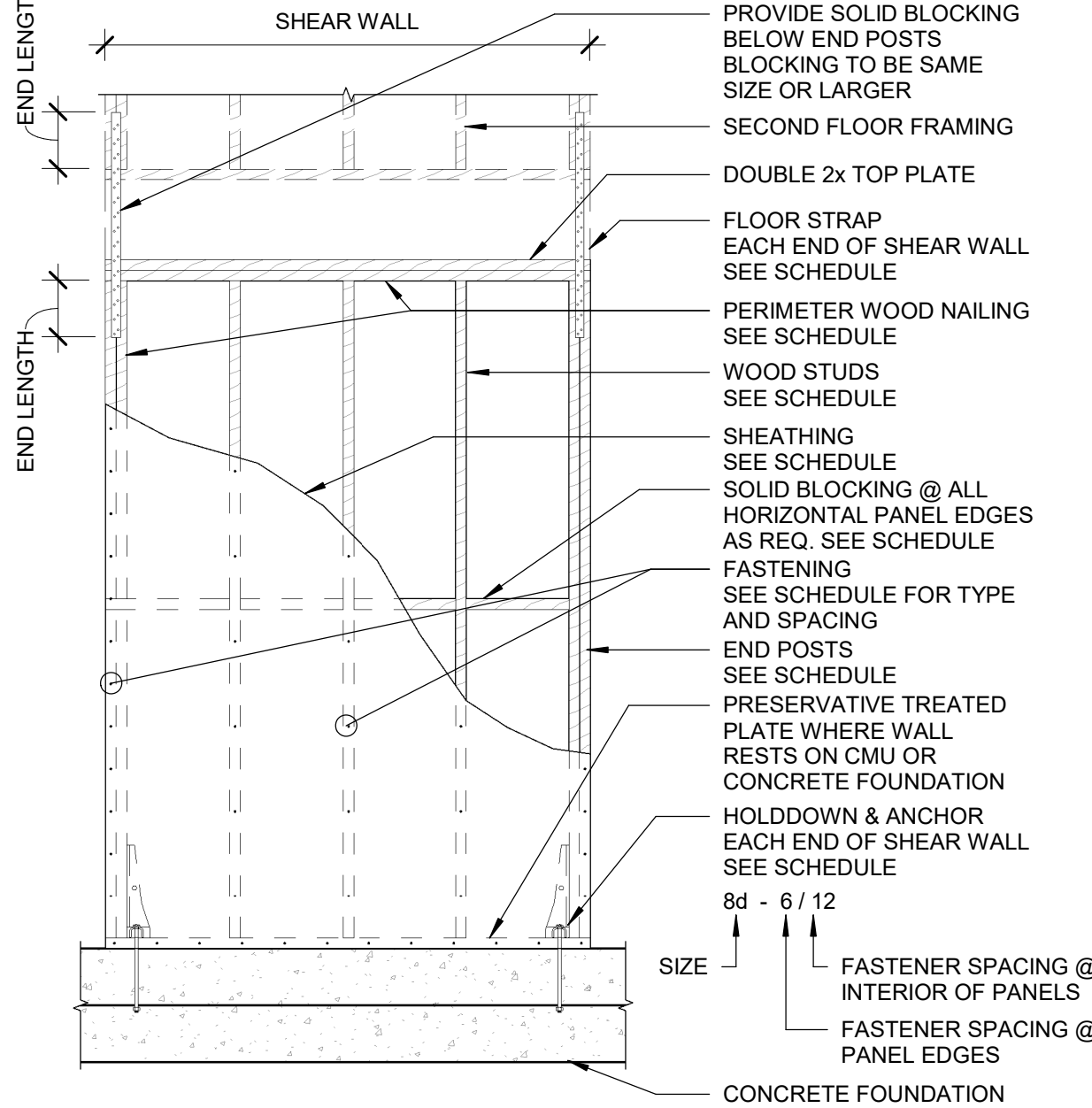


7 TYPICAL GABLE END DETAIL - STUD WALL

SCALE: NTS

2 TYPICAL WOOD ROOF DECK ATTACHMENT

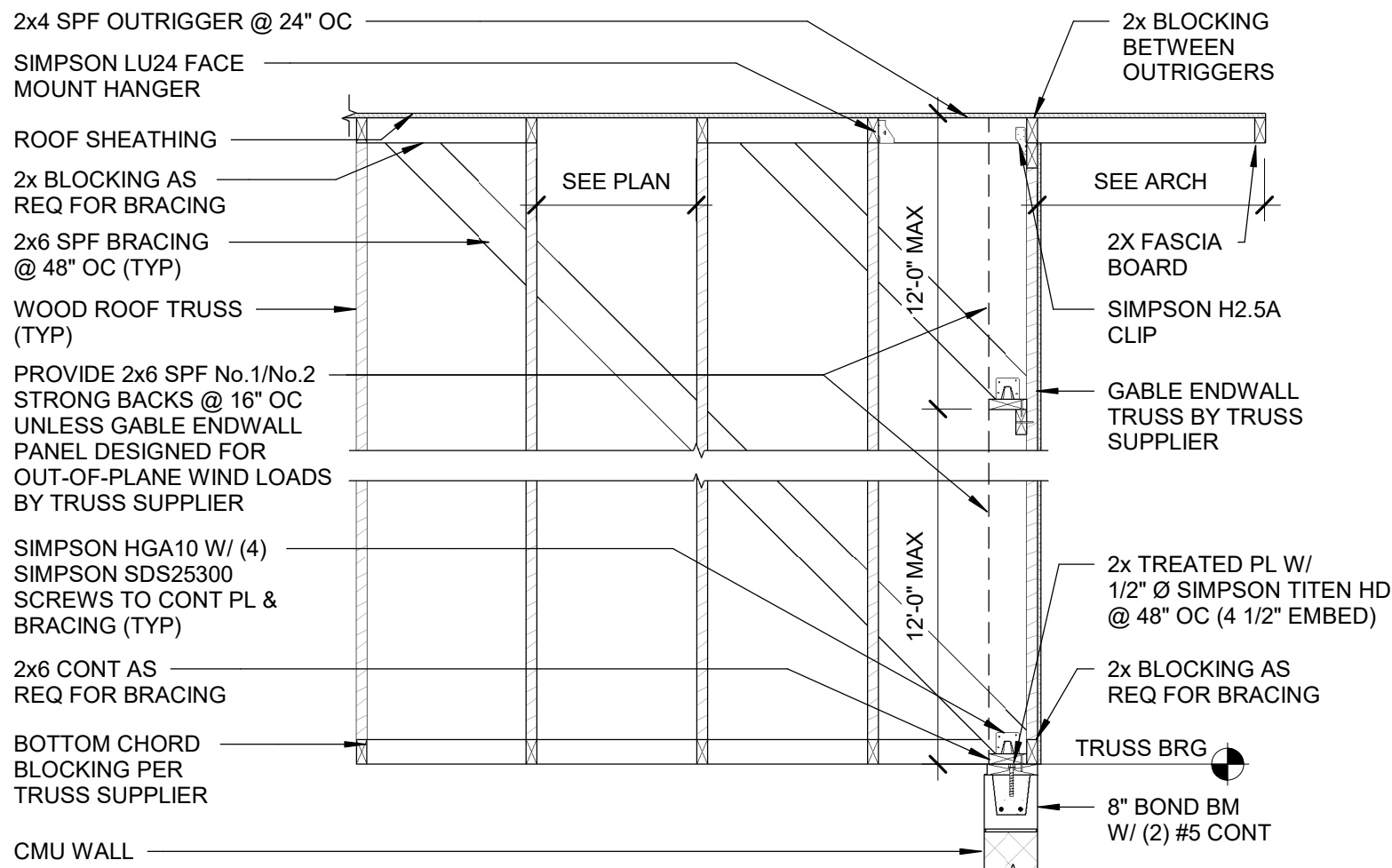
SCALE: NTS



- NOTES:
- TYPICAL DETAILS SHOWN WITH PLYWOOD OR OSB SHEATHING. GYPSUM BOARD SHEAR WALLS SIMILAR. SEE SCHEDULE FOR FASTENERS AND SPACING.
 - CONTRACTOR OPTION: WOOD SHEATHING MAY BE ORIENTED W/ LONG DIMENSION VERTICAL-OPPOSITE WHAT IS SHOWN ON DETAIL.

5 TYPICAL WOOD SHEAR WALL

SCALE: NTS

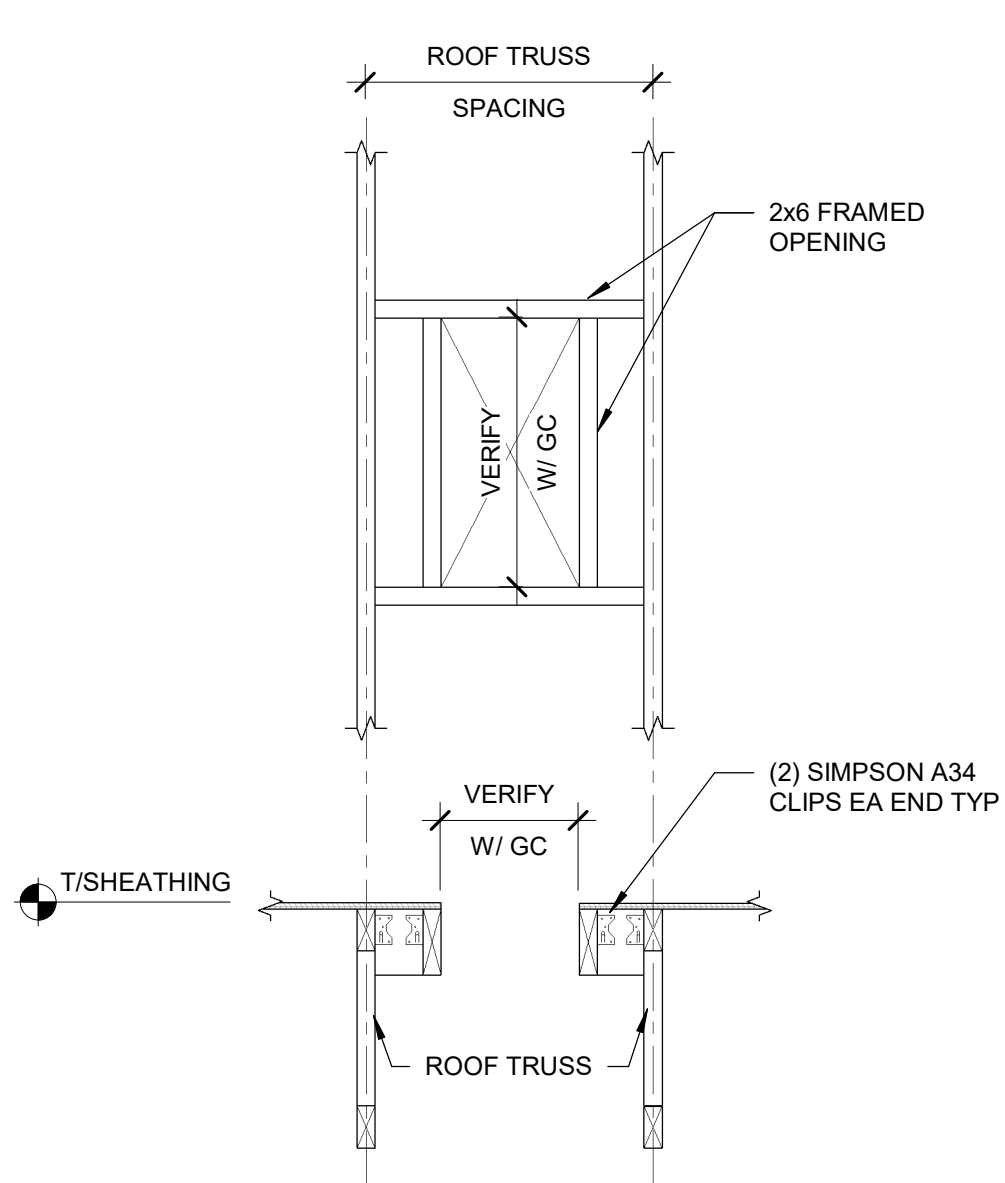


8 TYPICAL GABLE END DETAIL - CMU WALL

SCALE: NTS

3 TYPICAL WOOD BEARING WALL

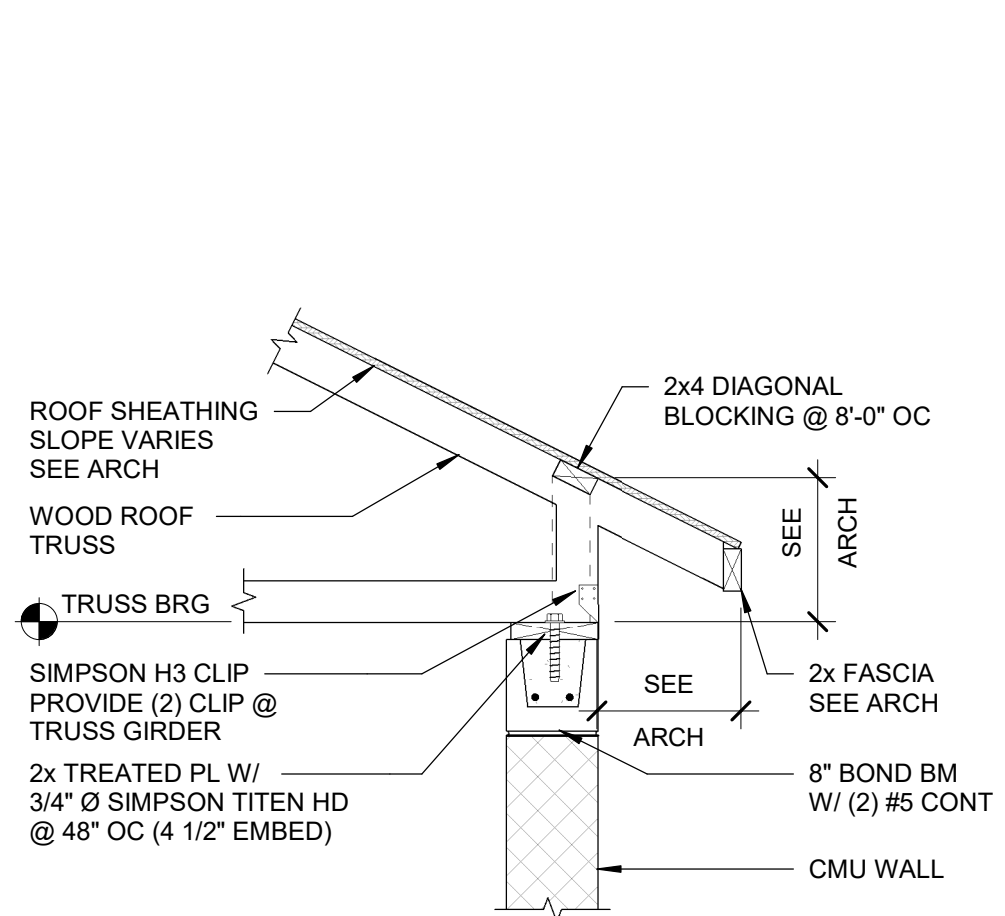
SCALE: NTS



- NOTES:
- PROVIDE FRAMING FOR OPENINGS LARGER THAN 8" X 8", 8" Ø OR SUPPORTING EQUIPMENT IN EXCESS OF 50 LBS.
 - GENERAL CONTRACTOR TO COORDINATE FINAL SIZE AND LOCATIONS OF MECHANICAL AND PLUMBING OPENINGS.

6 TYPICAL ROOF OPENING

SCALE: NTS



9 SECTION

SCALE: NTS



Architect
259 South Stree, Suite A
WAUKESHA, WI 53186
p: 833-380-6180

Project Info. 22005

RIVERSIDE PARK RESTROOMS

NEW CONSTRUCTION

600 Labaree St
Watertown, WI

Sheet Title

WOOD SECTIONS & DETAILS

Drawn by	Checked by
C4E	C4E

Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.

S6.0

2023-06-30 Bid & Permit Set

CORE4engineering
| Client-focused | Creative |
| Collaborative | Communicative |
12308 Corporate Pkwy, Suite 450
Mequon, WI 53092 | 262.236.9372
C4E Project #: 21325

RIVERSIDE PARK
RESTROOMS

NEW CONSTRUCTION

600 Labaree St
Watertown, WI

Sheet Title

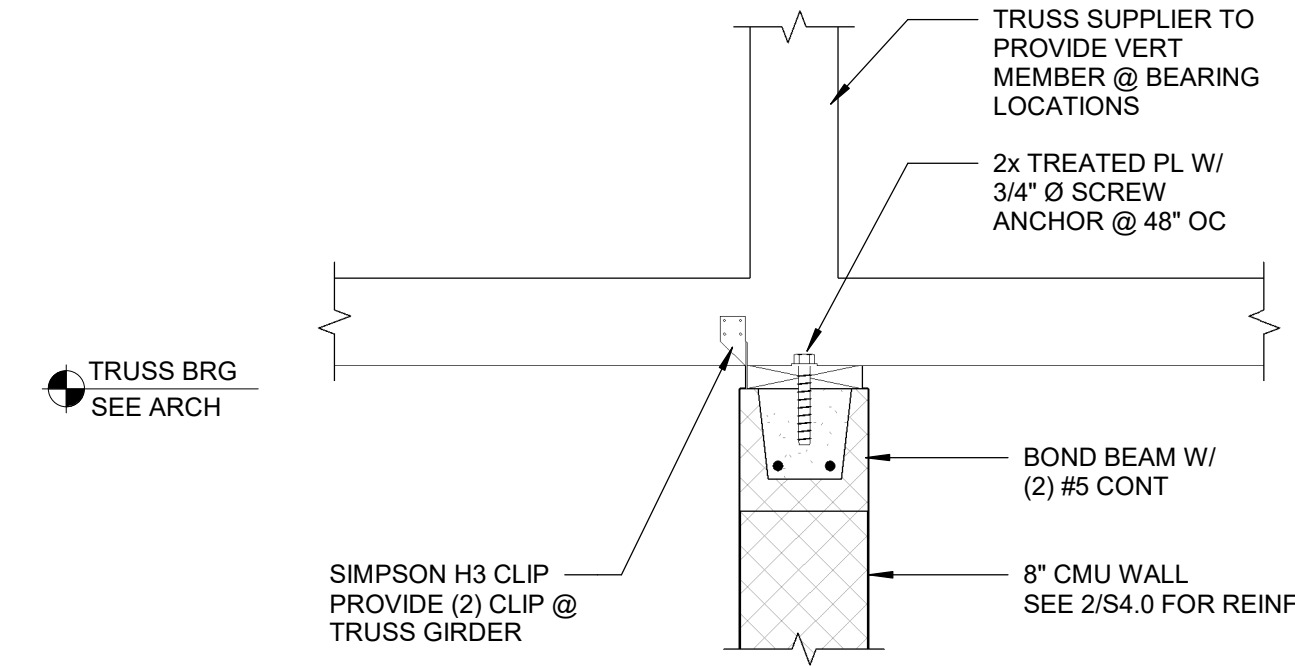
WOOD SECTION &
DETAILS

Drawn by	Checked by
C4E	C4E

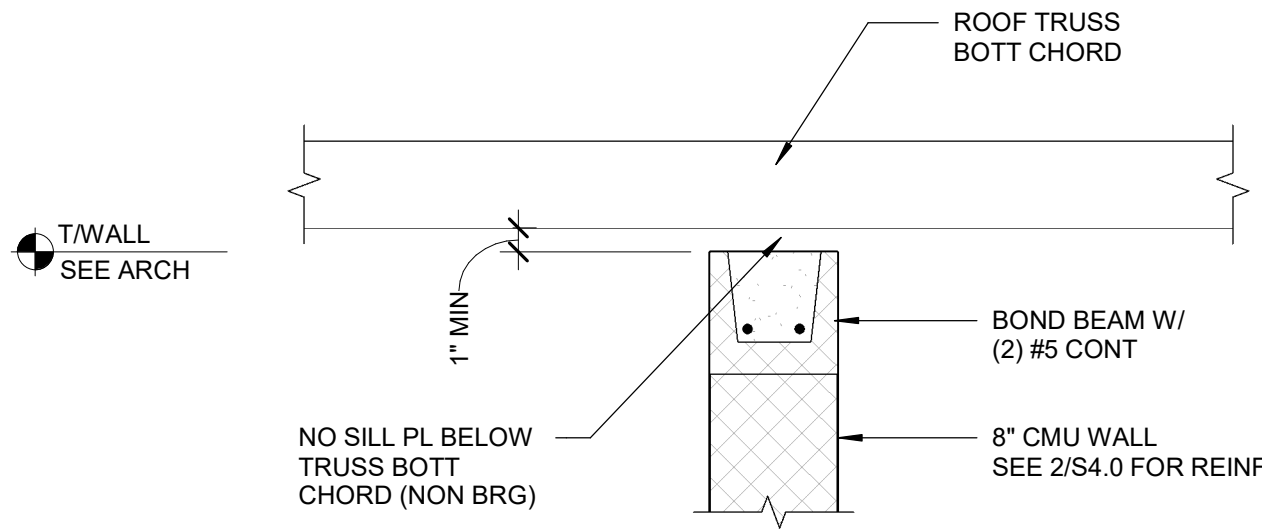
Revisions		
No.	Date	Description
1	06.30.2023	Bid & Permit Set

Sheet No.

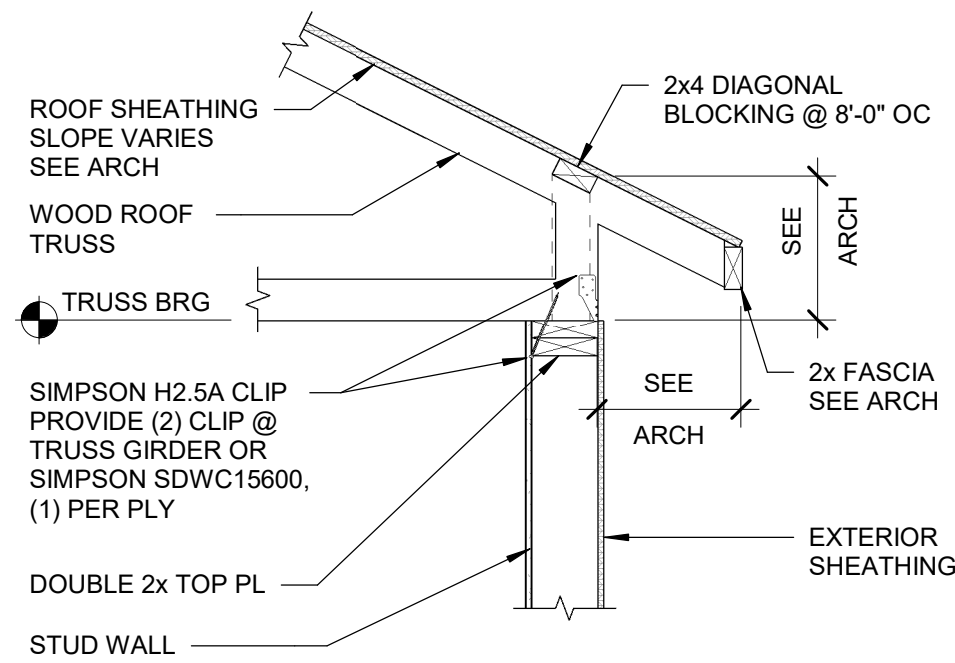
S6.1



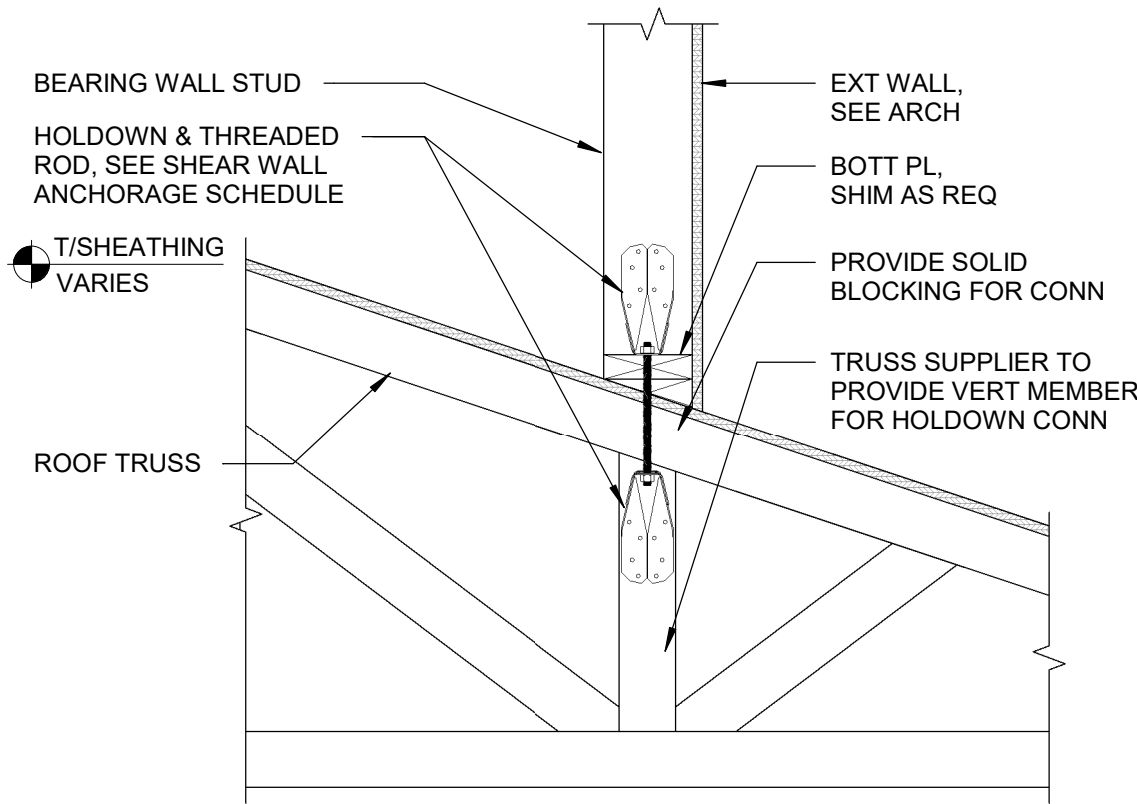
1
S6.1 SECTION
SCALE: NTS



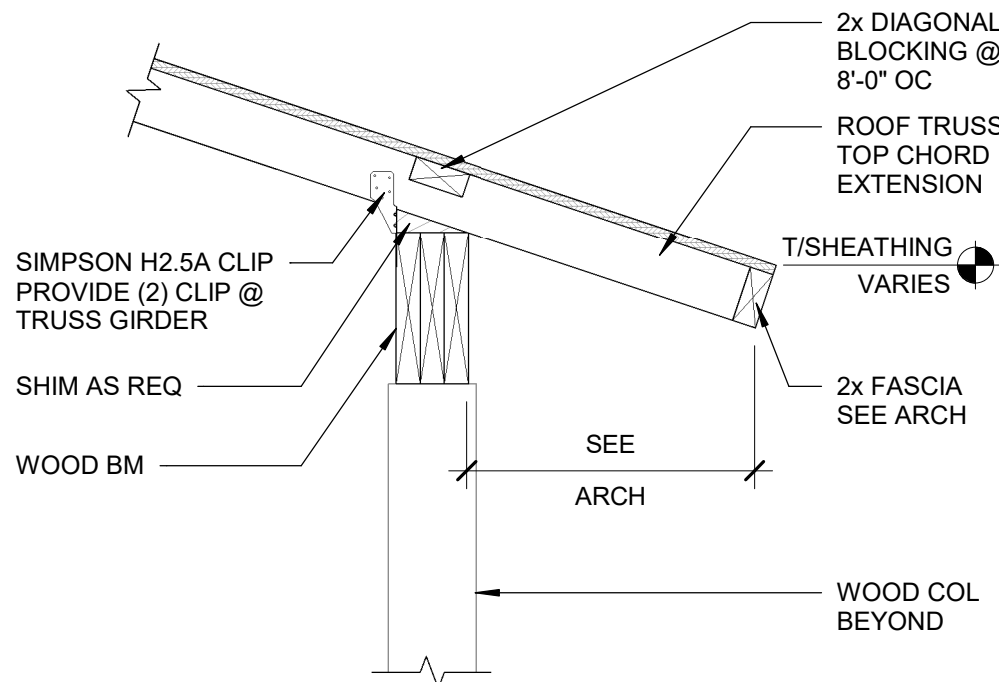
2
S6.1 SECTION
SCALE: NTS



3
S6.1 SECTION
SCALE: NTS



4
S6.1 SECTION
SCALE: NTS



5
S6.1 SECTION
SCALE: NTS

2023-06-30 Bid & Permit Set