

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON
10 MANOR DRIVE
MADISON, WISCONSIN

CITY OF MADISON CONTRACT 7343

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PUBLIC IMPROVEMENT PROJECT
APPROVED JANUARY 21, 2014

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:


CITY ENGINEER

6/13/14
DATE

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

BID DOCUMENTS
MAY 30, 2014

PROJECT TEAM

ARCHITECTURE: ASSEMBLAGE ARCHITECTS
7427 Elmwood Avenue, Middleton, WI 53562 T 608.827.5047

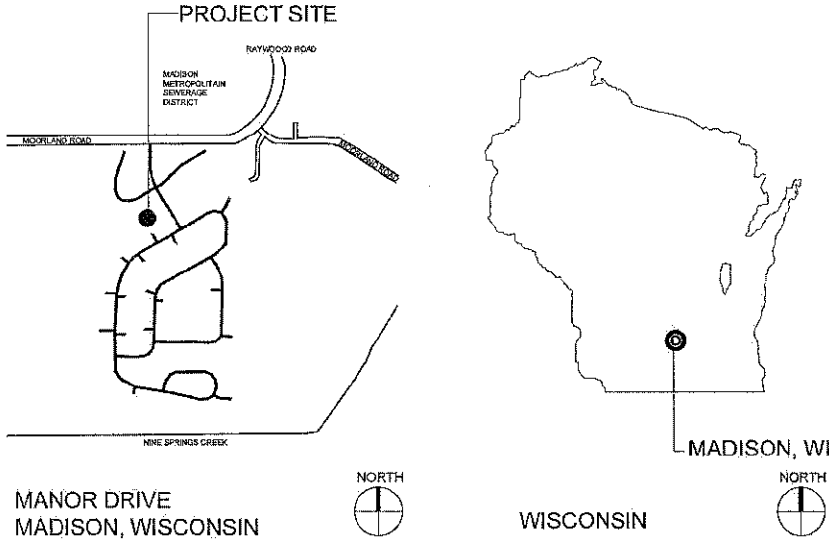
MECHANICAL, ELECTRICAL,
PLUMBING AND FIRE PROTECTION: ARNOLD AND O'SHERIDAN,
726 Heartland Trail, Suite 280, Madison, WI 53717 T 608-621-8407

STRUCTURAL ENGINEERING: ARNOLD AND O'SHERIDAN,
726 Heartland Trail, Suite 280, Madison, WI 53717 T 608-621-8407

SITE AND CIVIL: CITY OF MADISON - ENGINEERING
201 Martin Luther King Jr. Blvd, Room 115, Madison, WI 53707 T 608-266-4761

CIVIL ENGINEERING: OTIE-Oneida Total Integrated Enterprises
5100 Eastpark Blvd, Suite 200, Madison, WI 53718 T 608-243-6470

PROJECT LOCATION



HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN
COVER SHEET, INDEX AND LOCATION MAPS



REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	
	T001

ABBREVIATIONS

AB ANCHOR BOLT
AC AIR CONDITIONING
ACOUS ACOUSTICAL
ACOUS PNL ACOUSTICAL PANEL
ACOUS TILE ACOUSTICAL TILE
AD AREA DRAIN
ADC AUTOMATIC DOOR CLOSER
ADDL ADDITIONAL
ADH ADHESIVE
ADJ ADJUSTABLE
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AFS ABOVE FINISHED SLAB
AHU AIR HANDLING UNIT
AL ALUMINUM
ALT ALTERNATE, ALTERNATIVE
ALT NO ALTERNATE NUMBER
ANOD ANODIZED
AP ACCESS PANEL
APPROX APPROXIMATE
ARCH ARCHITECTURAL
BETW BETWEEN
BF BARRIER FREE
BLDG BUILDING
BOT BOTTOM
BRG BEARING
BRKT BRACKET
BS BOTH SIDES
BSMT BASEMENT
BW BOTH WAYS

C/C CENTER TO CENTER
CAB CABINET
CB CATCH BASIN
CFLG COUNTER FLASHING
CFM CUBIC FEET PER MINUTE
CI CAST IRON
CJ CONTROL JOINT
CL CENTER LINE
CLG CEILING
CLR CLEAR
CMU CONCRETE MASONRY UNIT
CONST JT CONSTRUCTION JOINT
COL COLUMN
CONC CONCRETE
CONST CONSTRUCTION
CONT CONTINUOUS
CUH CABINET UNIT HEATER
DBL DOUBLE
DCL DOOR CLOSURE
DEPT DEPARTMENT
DET DETAIL
DF DRINKING FOUNTAIN
DH DOUBLE HUNG
DIAM DIAMETER
DIAG DIAGONAL
DIM DIMENSION
DLV DOOR LOUVER
DMPF DAMPPROOFING
DN DOWN
DR DOOR
DWG DRAWING
EA EACH
EF EACH FACE
EIFS EXTERIOR INSULATION & FINISH SYSTEM
EJ EXPANSION JOINT
EL ELEVATION
ELEC ELECTRIC/ELECTRICAL
EPDM ETHYLENE PROPYLENE DIENE MONOMER
EQ EQUAL
EQUIP EQUIPMENT
EQUIV EQUIVALENT
ESMT EASEMENT
EW EACH WAY
EWC ELECTRIC WATER COOLER
EXC EXCAVATION
EXH EXHAUST
EXST EXISTING
EXP EXPANSION
EXP BT EXPANSION BOLT
EXP JT EXPANSION JOINT
EXT EXTERIOR
FD FLOOR DRAIN
FDN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTINGUISHER CABINET
FF FINISH FACE
FLR FLOOR
FLUOR FLUORESCENT
FOC FACE OF CONCRETE
FOF FACE OF FINISH
FOG FACE OF GLASS
FOM FACE OF MASONRY
FT FOOT/FEET
FTG FOOTING
FURN FURNITURE
FXTR FIXTURE
GA GAUGE
GALV GALVANIZED
GRL GRILLE
GWB GYPSUM WALLBOARD
HB HOSE BIB
HC HOLLOW CORE
HD HEAD
HDR HEADER
HGT HEIGHT
HM HOLLOW METAL
HP HORSEPOWER
HPT HIGH POINT
HR HOUR
HVAC HEATING, VENTILATION,
AIR CONDITIONING

IN INCHES
INCAND INCANDESCENT
INSUL INSULATION
JC JANITOR'S CLOSET
JST JOIST
JT JOINT
KPL KICK PLATE
LBS POUNDS
LD BRG LOAD BEARING
LF LINEAR FOOT
LH LEFT HAND
LHR LEFT HAND REVERSE
LIN LINEAR
LTG LIGHTING
LYR LOUVER
MAINT MAINTENANCE
MAS MASONRY
MAX MAXIMUM
MECH MECHANICAL
MEMB MEMBRANE
MFG MANUFACTURER
MH MANHOLE
MHGT MOUNTING HEIGHT
MIN MINIMUM
MISC MISCELLANEOUS
MJ MOVEMENT JOINT
MO MASONRY OPENING
MTG MOUNTING
N NORTH
NA NOT APPLICABLE
NIC NOT IN CONTRACT
NO NUMBER
NOM NOMINAL
NTS NOT TO SCALE
OVDH OVERHEAD
OC ON CENTER
OD OUTSIDE DIAMETER
OPP OPPOSITE
OVHD OVERHEAD
PBD PARTICLEBOARD
PERP PERPENDICULAR
PERF PERFORATED
PL PLATE
PLBG PLUMBING
PLYWD PLYWOOD
PNL PANEL
PNT PAINT
PR PAIR
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PTN PARTITION
PTWD PRESERVATIVE TREATED WOOD
PVC POLYVINYL CHLORIDE
RAD RADIUS
RECP RECEPTACLE
RD ROOF DRAIN
REBAR REINFORCING BAR
REF REFERENCE
REV REVISE/REVISION
RH RIGHT HAND
RHR RIGHT HAND REVERSE
RM ROOM
RND ROUND
RO ROUGH OPENING
ROW RIGHT OF WAY
RV ROOF VENT
SAN SANITARY
SB SPLASH BLOCK
SCHD SCHEDULED
SCJ SLAB CONTROL JOINT
SECT SECTION
SHT SHEET
SHTG SHEATHING
SIM SIMILAR
SPEC SPECIFICATION
SPKLR SPRINKLER
SPKR SPEAKER
SQ SQUARE
SQ FT SQUARE FOOT
SQ IN SQUARE INCH
SQ YD SQUARE YARD
STD STANDARD
STL STEEL
STL JST STEEL JOIST
STL PL STEEL PLATE
STOR STORAGE
STRUCT STRUCTURAL/STRUCTURE
SUSP SUSPENDED
SUSP CLG SUSPENDED CEILING
T&B TOP AND BOTTOM
TC TOP OF CONCRETE
THRES THRESHOLD
TJ TOP OF JOIST
TSL TOP OF SLAB
TST TOP OF STEEL
TYP TYPICAL
UC UNDERCUT
UF UNDER FLOOR
UGND UNDERGROUND
UH UNIT HEATER
UON UNLESS OTHERWISE NOTED
UTIL UTILITY
UV UNIT VENTILATOR
VB VINYL BASE
VCT VINYL COMPOSITION TILE
VR VAPOR RETARDER
VENT VENTILATING
VERT VERTICAL
VEST VESTIBULE
W WIDE, WIDTH
W/O WITHOUT
WT WEIGHT
WWF WELDED WIRE FABRIC

PROJECT SCHEDULE NOTES

BUILDING CONTRACTOR SHALL NOT HAVE ACCESS TO THE SITE PRIOR TO SITE GRADING / UTILITY COMPLETED DATE OF AUGUST 28, 2014.
BUILDING CONTRACTOR CAN UTILIZE PRIOR TIME FOR SUBMITTAL REVIEW, PRE-CONSTRUCTION MEETINGS, PLANNING, PERMITTING, ETC.

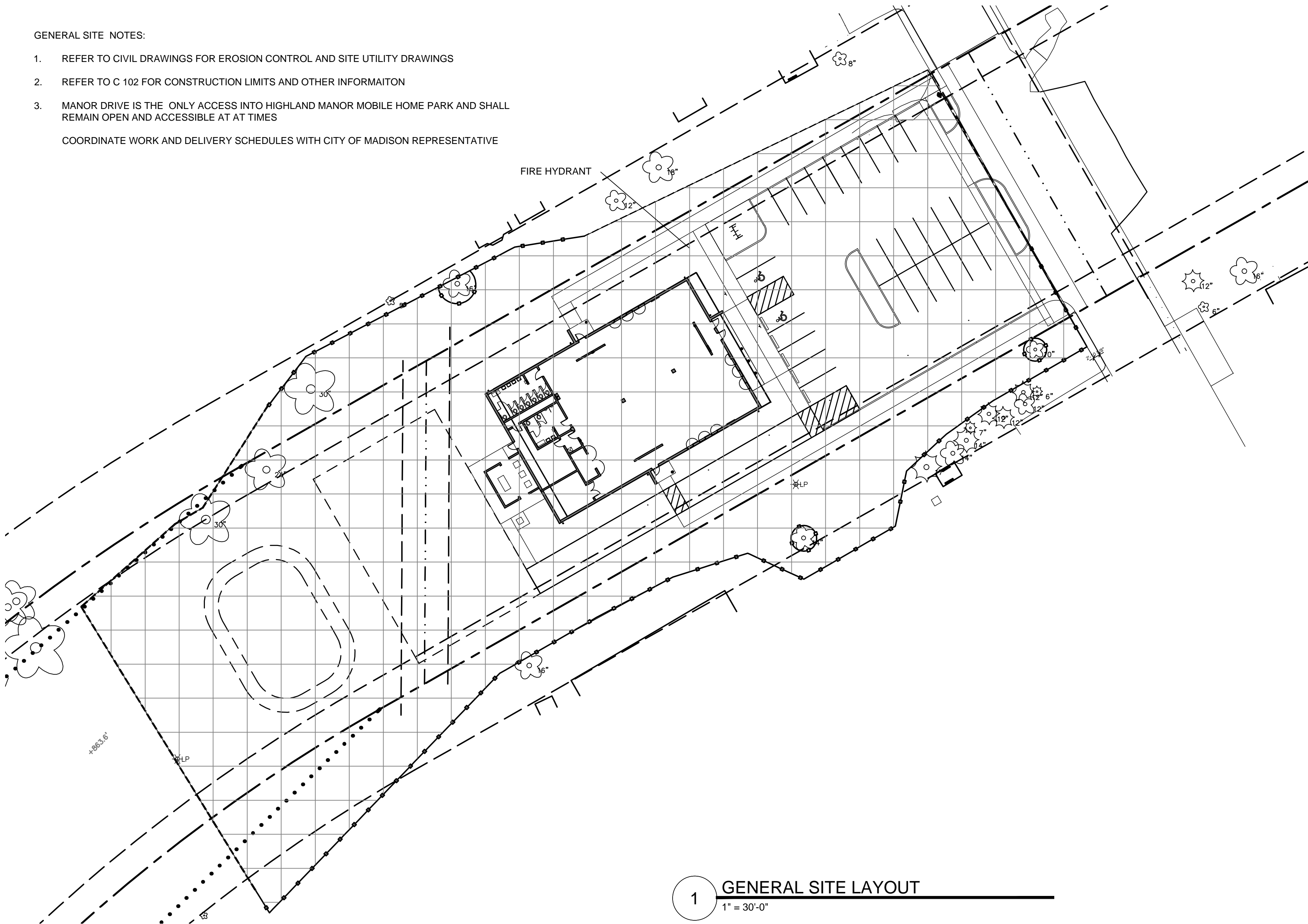
PROJECT SITE NOTES

SITE GRADING AND UTILITY BID PACKAGE UNDER CITY OF MADISON CONTRACT NO. 7319
REFER TO SITE DRAWING C301 FOR ANTICIPATED ROUGH GRADE LAYOUT TO BE INSTALLED AS PART OF GRADING AND UTILITY CONTRACT PRIOR TO SCOPE OF WORK WITHIN THESE DOCUMENTS.
UTILITY WORK PERFORMED BY THE CITY OF MADISON DESIGNATED WITHIN THESE DOCUMENTS TO BE COORDINATED BY THE GENERAL CONTRACTOR.

GENERAL NOTES:

1. REFER TO ALL DRAWINGS INCLUDING ALL OTHER TRADES FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
2. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, CONSULT ARCHITECT BEFORE PROCEEDING WITH THE WORK.
4. FINISH FLOOR ELEVATION IS 100'-0" TO TOP OF CONCRETE, UNLESS OTHERWISE INDICATED.
5. CONTRACTOR SHALL PROVIDE STIFFENERS, BRACINGS, BACKING PLATES AND SUPPORTING BRACKETS REQUIRED FOR THE PROPER INSTALLATION OF ALL CASEWORK, TOILET ROOM ACCESSORIES, TOILET PARTITIONS AND MISCELLANEOUS EQUIPMENT.
6. ALL RECESSED CABINETS, PANELS, BOXES, ETC. LOCATED IN FIRE-RATED PARTITIONS SHALL BE INSTALLED IN A MANNER WHICH MAINTAINS THE FIRE-RATED CONSTRUCTION.
7. GC SHALL COORDINATE ALL PLUMBING, HVAC AND ELECTRICAL FLOOR, ROOF, AND WALL SLEEVES AND ALL MECHANICAL SHAFTS WITH ALL OTHER TRADES DRAWINGS.
8. REFER TO PLUMBING, HVAC AND ELECTRICAL CONTRACTORS DRAWINGS AND MANUFACTURERS TEMPLATE DRAWINGS FOR ALL MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, BOLT SETTING TEMPLATES, ISOLATIONS, SPRING ISOLATION, ETC..
9. ALL DRAWINGS ARE OF EQUAL IMPORTANCE IN DEFINING THE WORK OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL CAREFULLY STUDY AND COMPARE ALL DRAWINGS DURING THE BIDDING PERIOD ANY BEFORE INSTALLATION OF THEIR WORK. ANY INCONSISTENCIES IN THE DRAWINGS SHALL BE REPORTED PROMPTLY TO THE ARCHITECT FOR CLARIFICATION. FOR GRAPHIC CLARITY CERTAIN DETAILS MAY NOT DEPICT ALL REQUIRED WORK BY OTHER DISCIPLINES.
10. DO NOT SCALE DRAWINGS. THE DRAWINGS ARE NOT NECESSARILY TO SCALE - USE GIVEN DIMENSIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE PROJECT SITE PRIOR TO THE START OF CONSTRUCTION. ANY INCONSISTENCIES DISCOVERED BY THE CONTRACTOR SHALL BE REPORTED PROMPTLY TO THE ARCHITECT FOR CLARIFICATION BEFORE COMMENCING THE WORK.
11. CONSTRUCTION STORAGE AND STAGING IS LIMITED TO CONSTRUCTION LIMIT.
12. COORDINATE STAGING FENCING WITH CITY/PARKS REPRESENTATIVE..
13. CONTRACTOR PARKING LIMITED TO CONSTRUCTION LIMITS.
14. AREAS WITH LIMITED ACCESS, THE ACCESS SHALL BE COORDINATED WITH CONSTRUCTION MANAGER IN A MANNER TO MAINTAIN SAFE OCCUPANCY OF BUILDING.
15. MAINTAIN ACCESS TO MANOR DRIVE AT ALL TIMES. COORDINATE DELIVERIES WITH CITY/PARKS REPRESENTATIVE.
16. CONTRACTOR TO PROVIDE AND MAINTAIN TEMPORARY TOILET FACILITIES FOR CONTRACTOR USE. COORDINATE LOCATIONS WITH CITY/PARKS REPRESENTATIVE.
17. COORDINATE LOCATION OF GARBAGE RECEPTACLES AND CONTRACTOR WASTE AREA WITH CITY/PARKS REPRESENTATIVE.

BUILDING CODE SUMMARY DESIGN CODE TO IBC 2009 EDITION						
REF SECTION	GENERAL INFORMATION					
	AREA FIRST FLOOR	6,400 GSF				
TABLE 503	ALLOWABLE AREA: ALLOWABLE HEIGHT:	II B CONSTRUCTION = 9,500 GSF/FLOOR II B CONSTRUCTION = 2 STORIES				
TABLE 601	NO. OF STORIES: BUILDING HEIGHT:	1 STORY 15'-6"				
	CONSTRUCTION TYPE: OCCUPANCY:	TYPE II B A-3 ASSEMBLY				
	FIRE RESISTANCE:	0 HOURS STRUCTURAL FRAMES 0 HOURS BEARING WALLS 0 HOURS ROOF CONSTRUCTION				
713.4.1	FIRE PROTECTION:	FULLY SPRINKLERED AND FIRE ALARM SYSTEM				
BUILDING OCCUPANCY SUMMARY						
TABLE 1004.1.1	ASSEMBLY WITH OUT FIXED SEATS - COMMUNITY ROOM	4170 SF	5 SF PER OCC.	4170 SF / 15 =	834 OCCUPANTS	
BUILDING EXIT WIDTH SUMMARY						
BUILDING EQUIPPED WITH SPRINKLER SYSTEM						
TABLE 1005.1	OCCUPANTS	EGRESS WIDTH COMPONENTS	REQUIRED EXIT WIDTH	PROVIDED EXIT WIDTH		
	834 OCCUPANTS	0.15 INCHES/OCCUPANT	126 INCHES	144 INCHES		
SANITARY FIXTURE SUMMARY AT ADDITION AND RENOVATION:						
TABLE 2902.1	REQUIRED	A-3 ASSEMBLY - AUDITORIUMS WITHOUT PERMANENT SEATING				
	SAFEROOM 278 OCCUPANTS	WATER CLOSETS REQUIRED MALE / FEMALE	LAVATORIES REQUIRED MALE / FEMALE	SHOWERS OR BATHTUBS	DRINKING FOUNTAIN REQUIRED	SERVICE SINK REQUIRED
	417 MALE	1 PER 125 = 4 WC *	1 PER 200 = 3 LAV	NOT REQUIRED	1 PER 500 = 2	1 SINK
	417 FEMALE	1 PER 65 = 7 WC	1 PER 200 = 3 LAV			
TABLE 702.2 ICC 500 - 2008	REQUIRED	TORNADO SHELTERS - COMMUNITY				
	SAFEROOM 806 OCCUPANTS	2 MINIMUM and 1 PER 500 OCC = 4	1 PER 1000 = 1	NOT REQUIRED	-	
* IPC SECTION 419 - 419.2. SUBSTITUTION FOR WATER CLOSETS. URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS FOR ALL OTHER OCCUPANCIES.						



1 GENERAL SITE LAYOUT
1" = 30'-0"

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7104
10 MANOR DRIVE
MADISON, WISCONSIN



CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

T002

SITE SURVEY NOTE: site survey note:
this survey was documented prior to site grading and utility work performed under city of Madison contract 7319, refer to "highland manor storm shelter site grading component, city project no. 53w1625" for work under contract 7319, which is due to be completed prior to commencement of construction scope in this project.

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960



HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SITE SURVEY

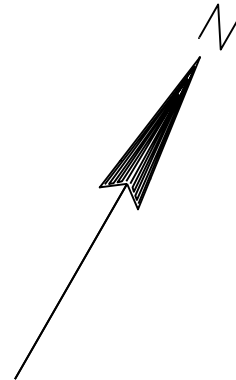


REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	SV101

LOT 1
CSM 668

LOT 1
CSM 13513

LOT 2
CSM 668



SCALE
1" = 20'

30' PLANTING STRIP PER
CSM 668, NO STRUCTURES

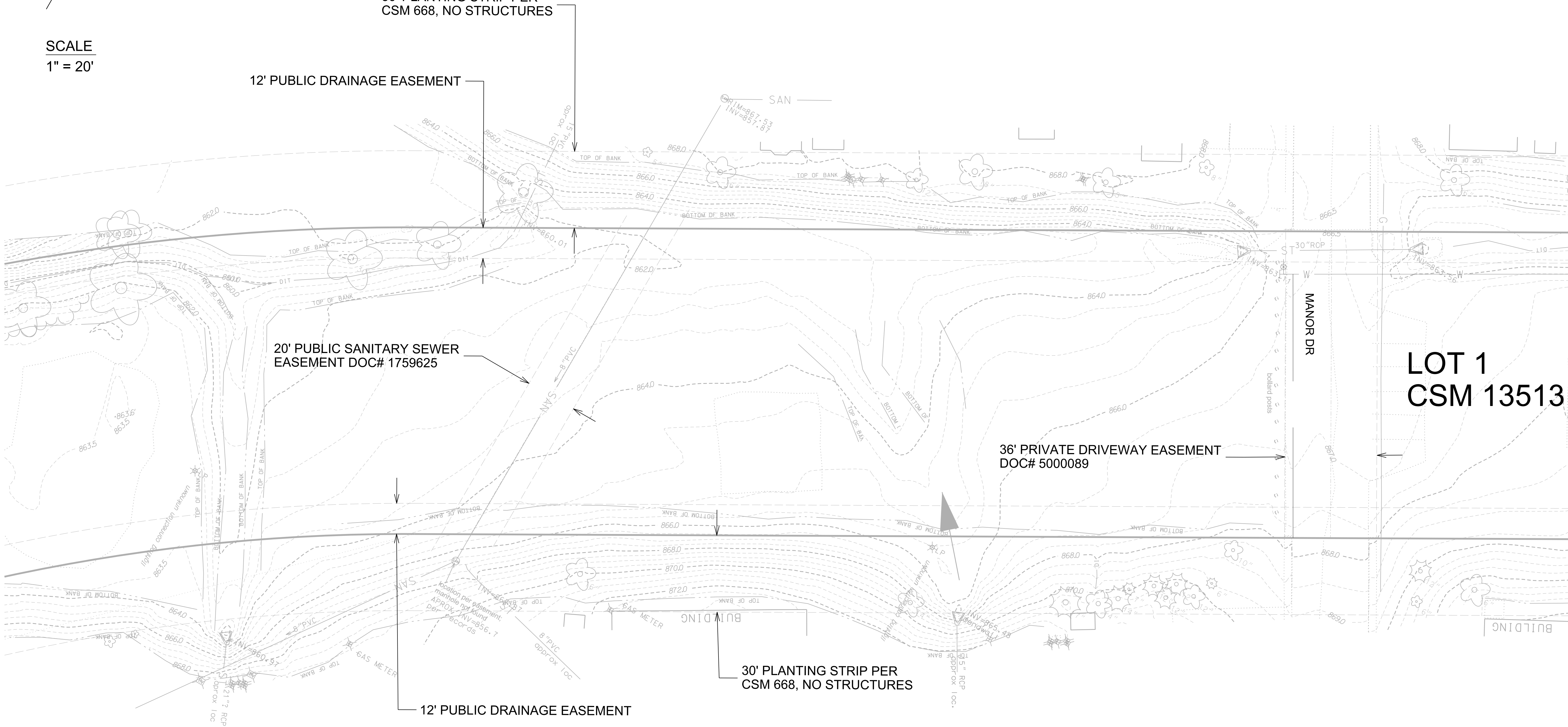
12' PUBLIC DRAINAGE EASEMENT

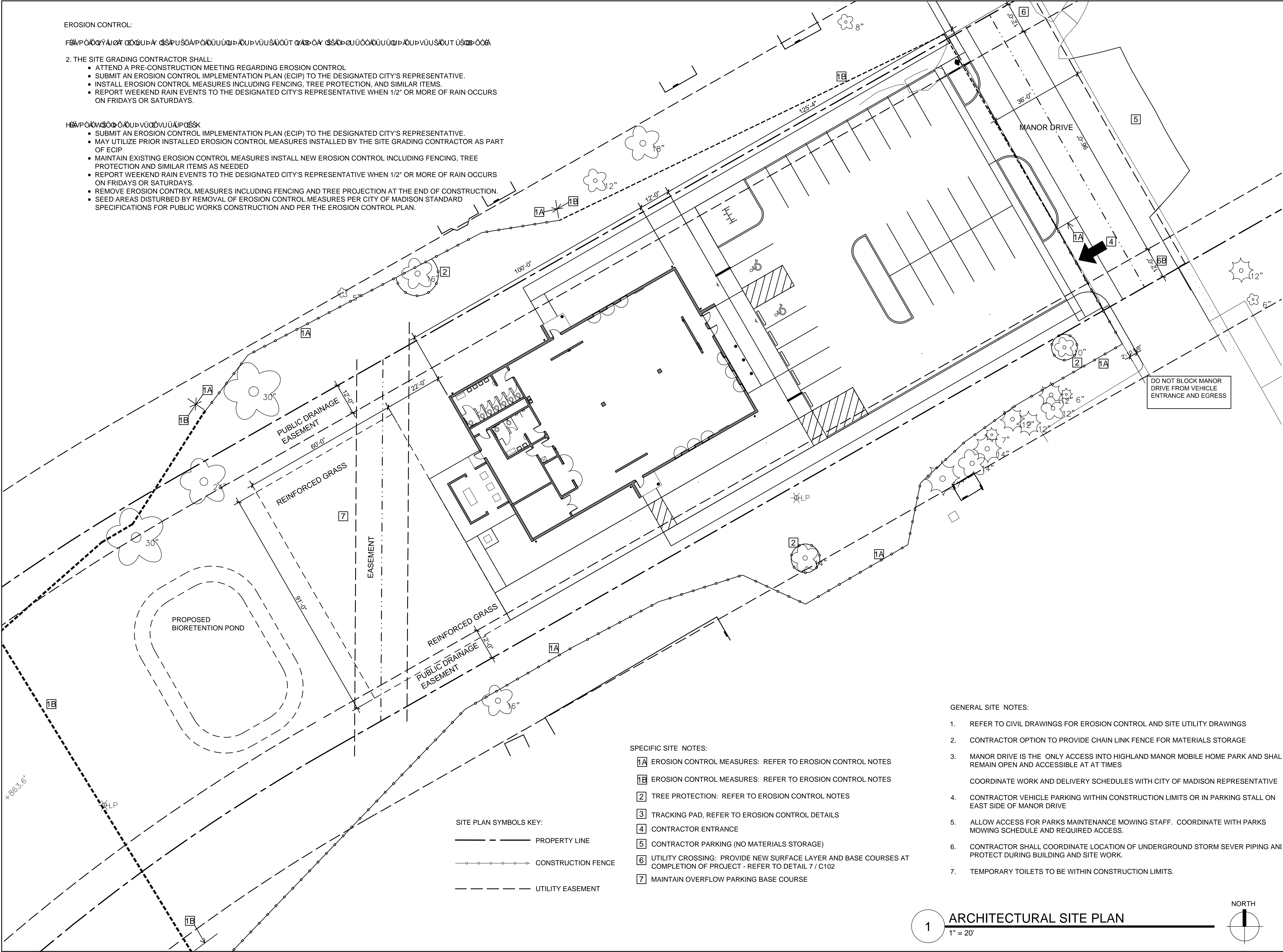
20' PUBLIC SANITARY SEWER
EASEMENT DOC# 1759625

36' PRIVATE DRIVEWAY EASEMENT
DOC# 5000089

30' PLANTING STRIP PER
CSM 668, NO STRUCTURES

12' PUBLIC DRAINAGE EASEMENT





EROSION CONTROL:

EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED AS SHOWN ON THIS PLAN AND IN ACCORDANCE WITH THE CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND PER THE EROSION CONTROL PLAN.

2. THE SITE GRADING CONTRACTOR SHALL:

- ATTEND A PRE-CONSTRUCTION MEETING REGARDING EROSION CONTROL
- SUBMIT AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) TO THE DESIGNATED CITY'S REPRESENTATIVE.
- INSTALL EROSION CONTROL MEASURES INCLUDING FENCING, TREE PROTECTION, AND SIMILAR ITEMS.
- REPORT WEEKEND RAIN EVENTS TO THE DESIGNATED CITY'S REPRESENTATIVE WHEN 1/2" OR MORE OF RAIN OCCURS ON FRIDAYS OR SATURDAYS.

EROSION CONTROL MEASURES:

- SUBMIT AN EROSION CONTROL IMPLEMENTATION PLAN (ECIP) TO THE DESIGNATED CITY'S REPRESENTATIVE.
- MAY UTILIZE PRIOR INSTALLED EROSION CONTROL MEASURES INSTALLED BY THE SITE GRADING CONTRACTOR AS PART OF ECIP
- MAINTAIN EXISTING EROSION CONTROL MEASURES INSTALL NEW EROSION CONTROL INCLUDING FENCING, TREE PROTECTION AND SIMILAR ITEMS AS NEEDED
- REPORT WEEKEND RAIN EVENTS TO THE DESIGNATED CITY'S REPRESENTATIVE WHEN 1/2" OR MORE OF RAIN OCCURS ON FRIDAYS OR SATURDAYS.
- REMOVE EROSION CONTROL MEASURES INCLUDING FENCING AND TREE PROTECTION AT THE END OF CONSTRUCTION.
- SEED AREAS DISTURBED BY REMOVAL OF EROSION CONTROL MEASURES PER CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND PER THE EROSION CONTROL PLAN.

SPECIFIC SITE NOTES:

- 1A** EROSION CONTROL MEASURES: REFER TO EROSION CONTROL NOTES
- 1B** EROSION CONTROL MEASURES: REFER TO EROSION CONTROL NOTES
- 2** TREE PROTECTION: REFER TO EROSION CONTROL NOTES
- 3** TRACKING PAD, REFER TO EROSION CONTROL DETAILS
- 4** CONTRACTOR ENTRANCE
- 5** CONTRACTOR PARKING (NO MATERIALS STORAGE)
- 6** UTILITY CROSSING: PROVIDE NEW SURFACE LAYER AND BASE COURSES AT COMPLETION OF PROJECT - REFER TO DETAIL 7 / C102
- 7** MAINTAIN OVERFLOW PARKING BASE COURSE

SITE PLAN SYMBOLS KEY:

- — — — — PROPERTY LINE
- — — — — CONSTRUCTION FENCE
- — — — — UTILITY EASEMENT

GENERAL SITE NOTES:

1. REFER TO CIVIL DRAWINGS FOR EROSION CONTROL AND SITE UTILITY DRAWINGS
2. CONTRACTOR OPTION TO PROVIDE CHAIN LINK FENCE FOR MATERIALS STORAGE
3. MANOR DRIVE IS THE ONLY ACCESS INTO HIGHLAND MANOR MOBILE HOME PARK AND SHALL REMAIN OPEN AND ACCESSIBLE AT ALL TIMES
4. CONTRACTOR VEHICLE PARKING WITHIN CONSTRUCTION LIMITS OR IN PARKING STALL ON EAST SIDE OF MANOR DRIVE
5. ALLOW ACCESS FOR PARKS MAINTENANCE MOWING STAFF. COORDINATE WITH PARKS MOWING SCHEDULE AND REQUIRED ACCESS.
6. CONTRACTOR SHALL COORDINATE LOCATION OF UNDERGROUND STORM SEWER PIPING AND PROTECT DURING BUILDING AND SITE WORK.
7. TEMPORARY TOILETS TO BE WITHIN CONSTRUCTION LIMITS.

1 ARCHITECTURAL SITE PLAN
1" = 20'



assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT

SHEET NAME

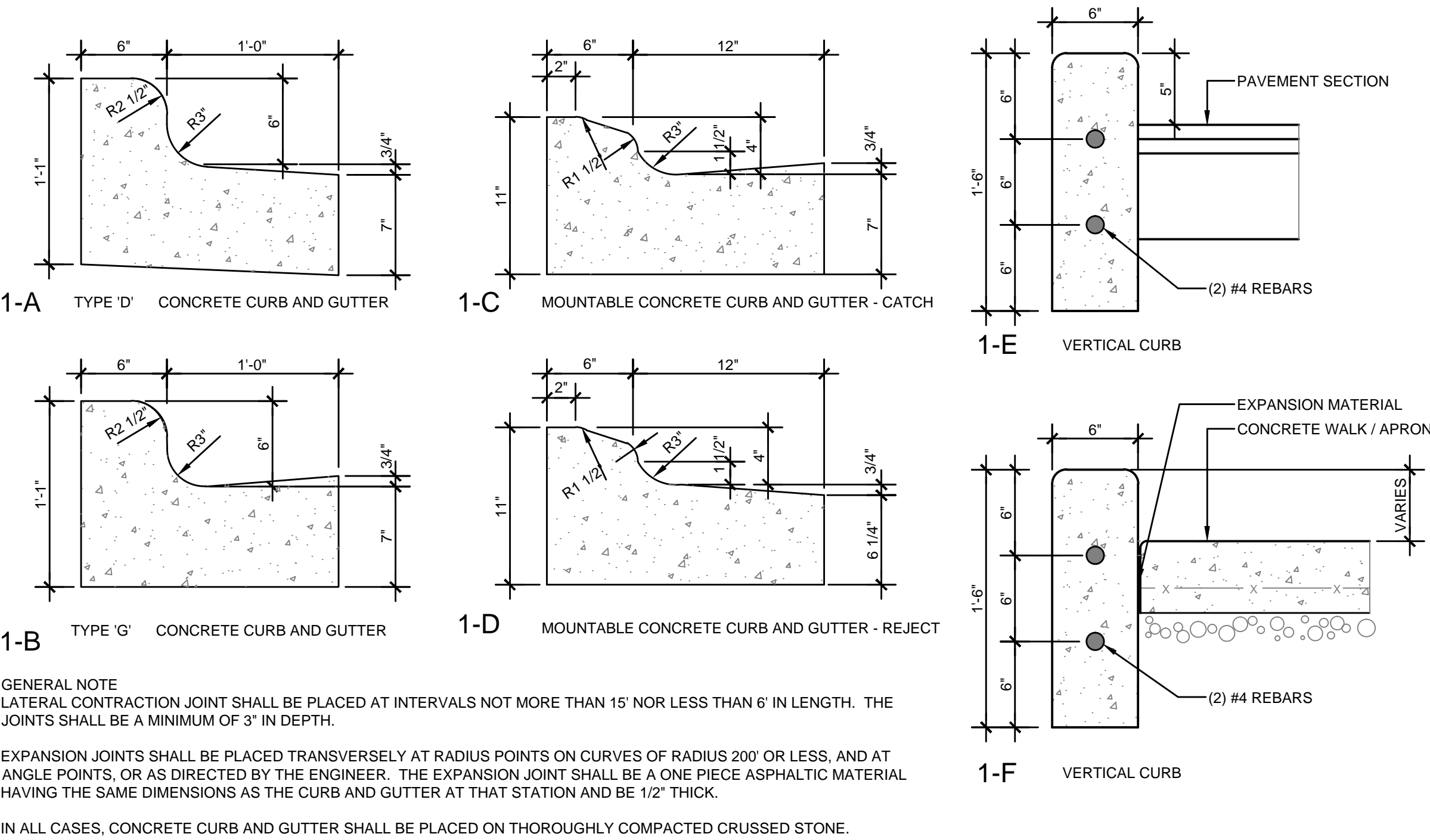
ARCHITECTURAL SITE PLAN



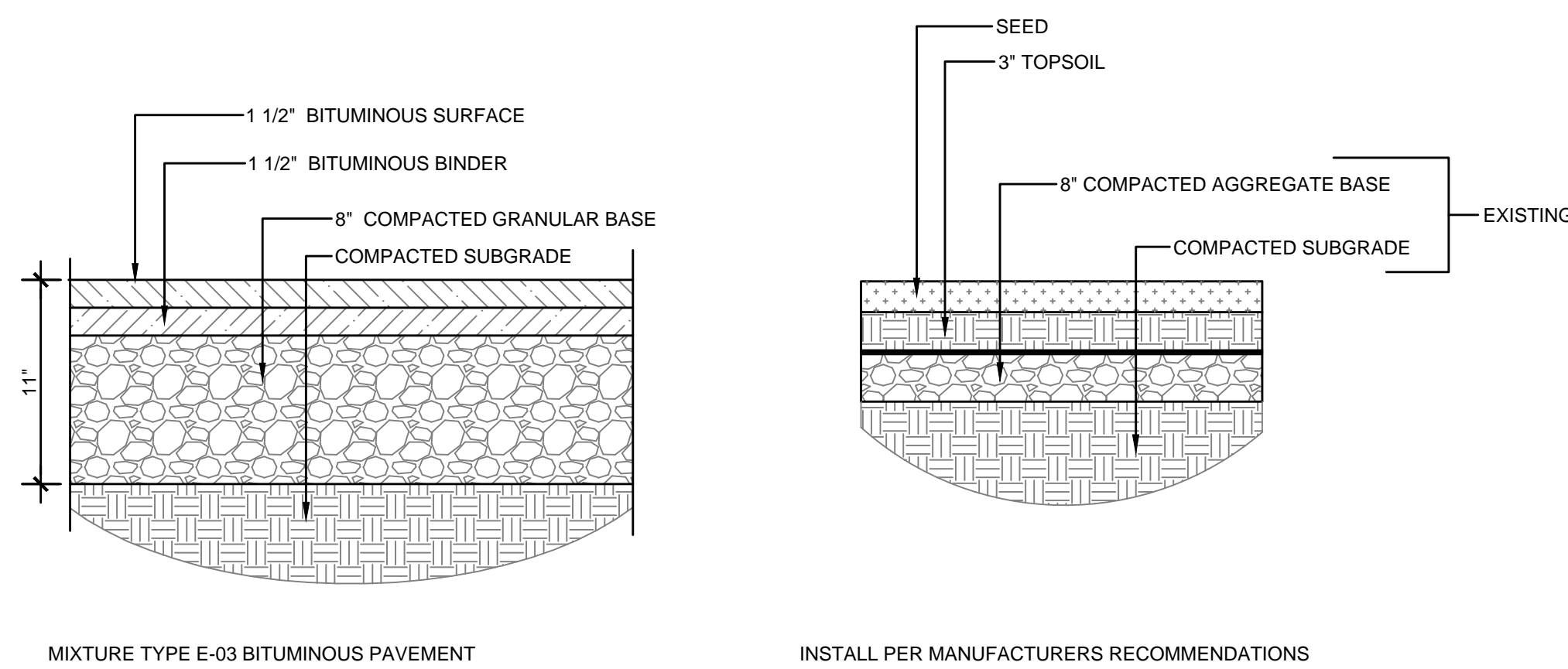
CITY OF MADISON
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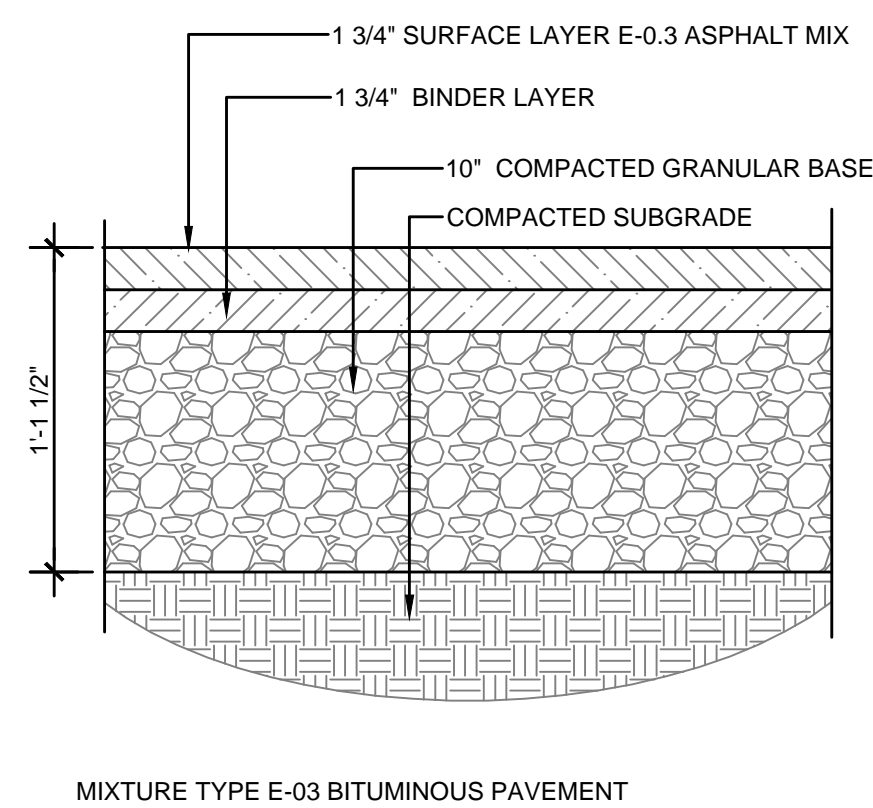
C101



1 CURB DETAILS
1 1/2" = 1'-0"

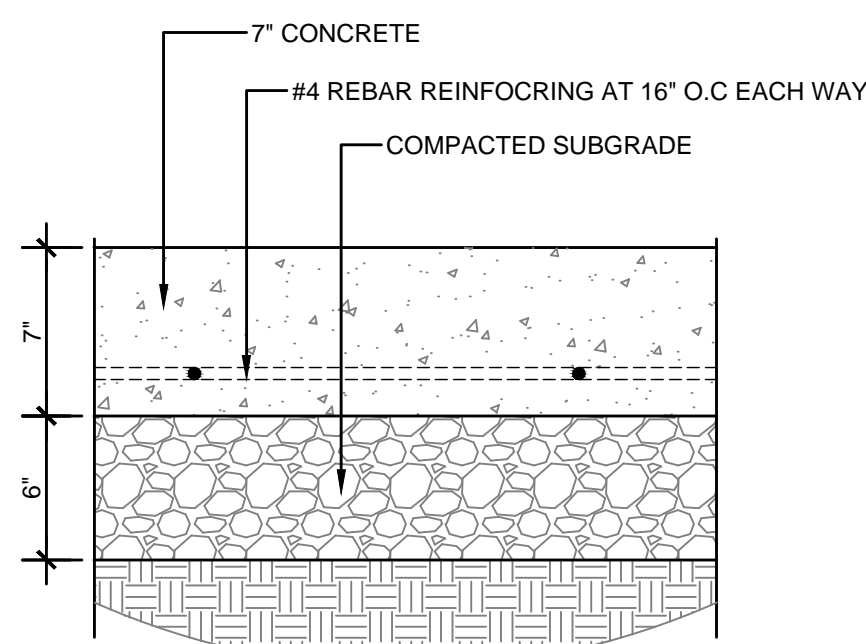


3 PARKING PAVEMENT SECTION
1 1/2" = 1'-0"



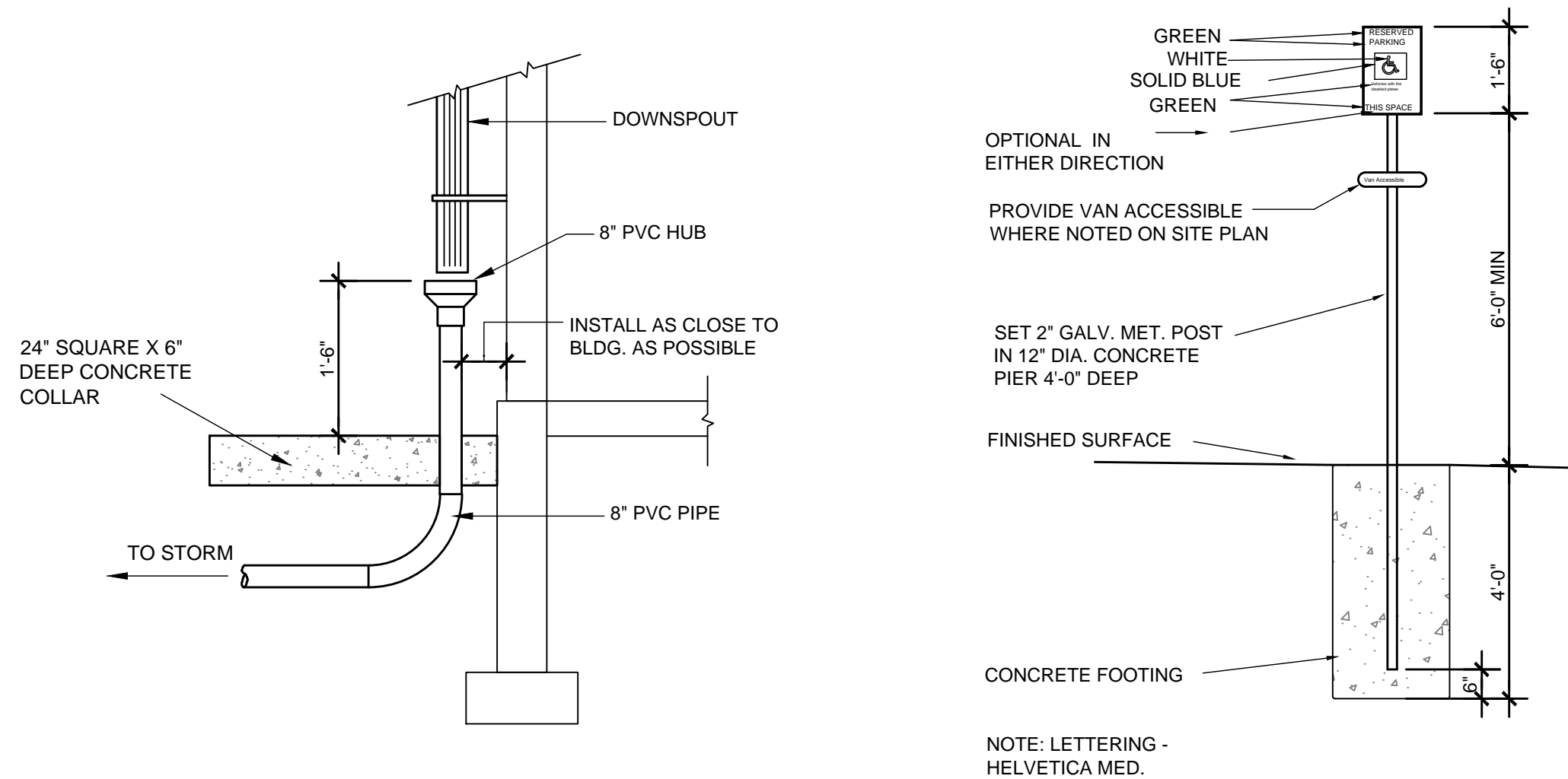
7 ROAD PAVEMENT SECTION
1 1/2" = 1'-0"

4 DETAIL - REINFORCED GRASS
1 1/2" = 1'-0"

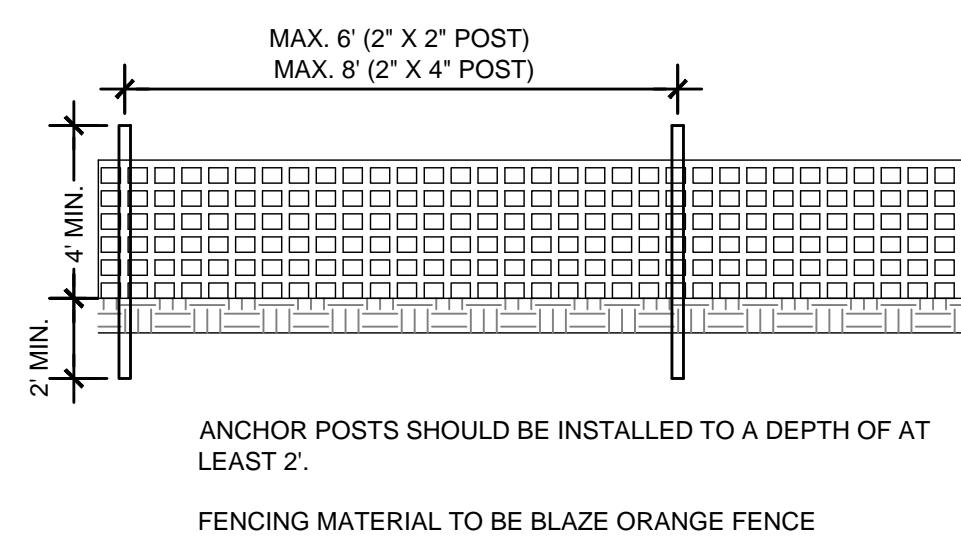


11 CONCRETE APRON SECTION
1 1/2" = 1'-0"

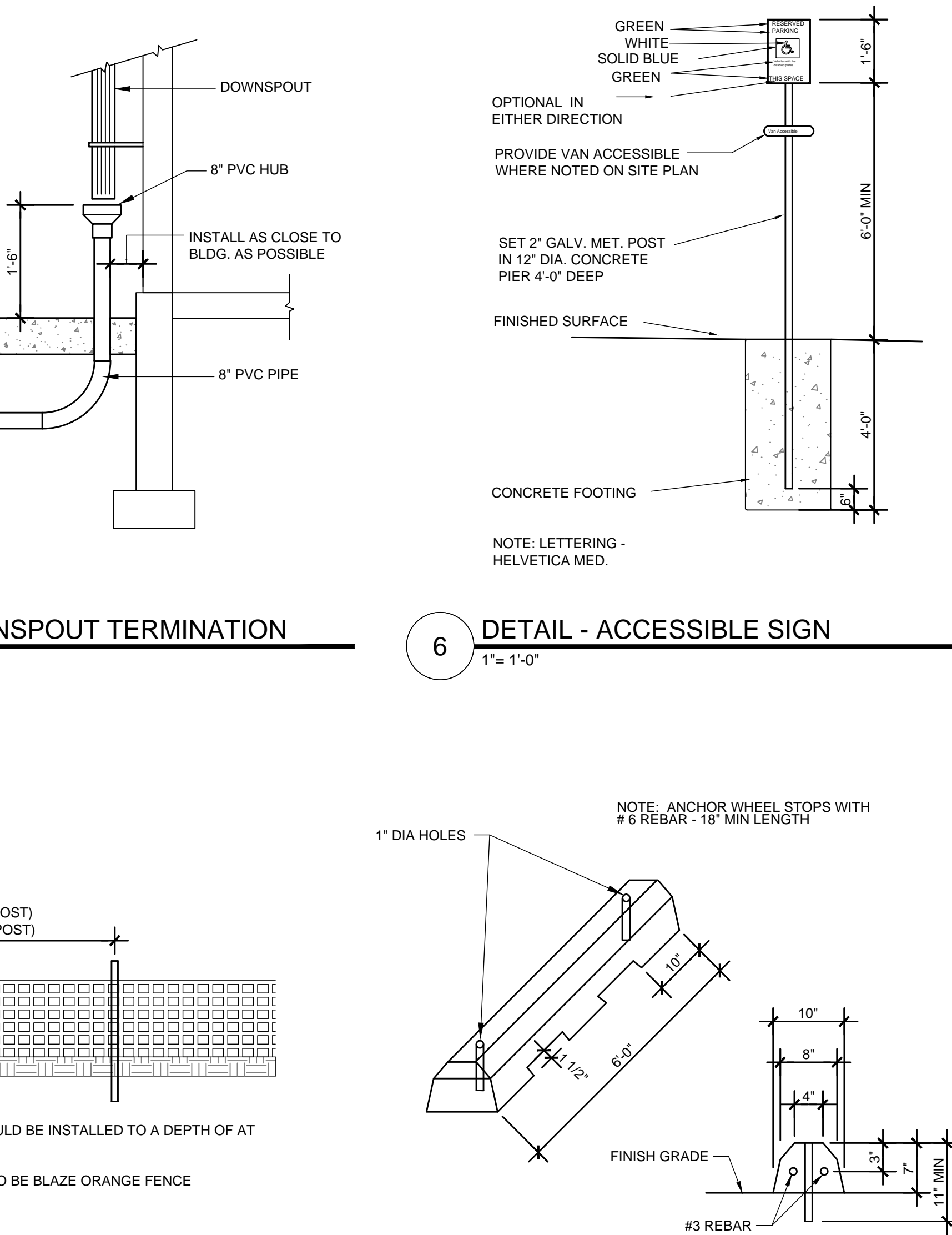
2 SIDEWALK DETAILS
1" = 1'-0"



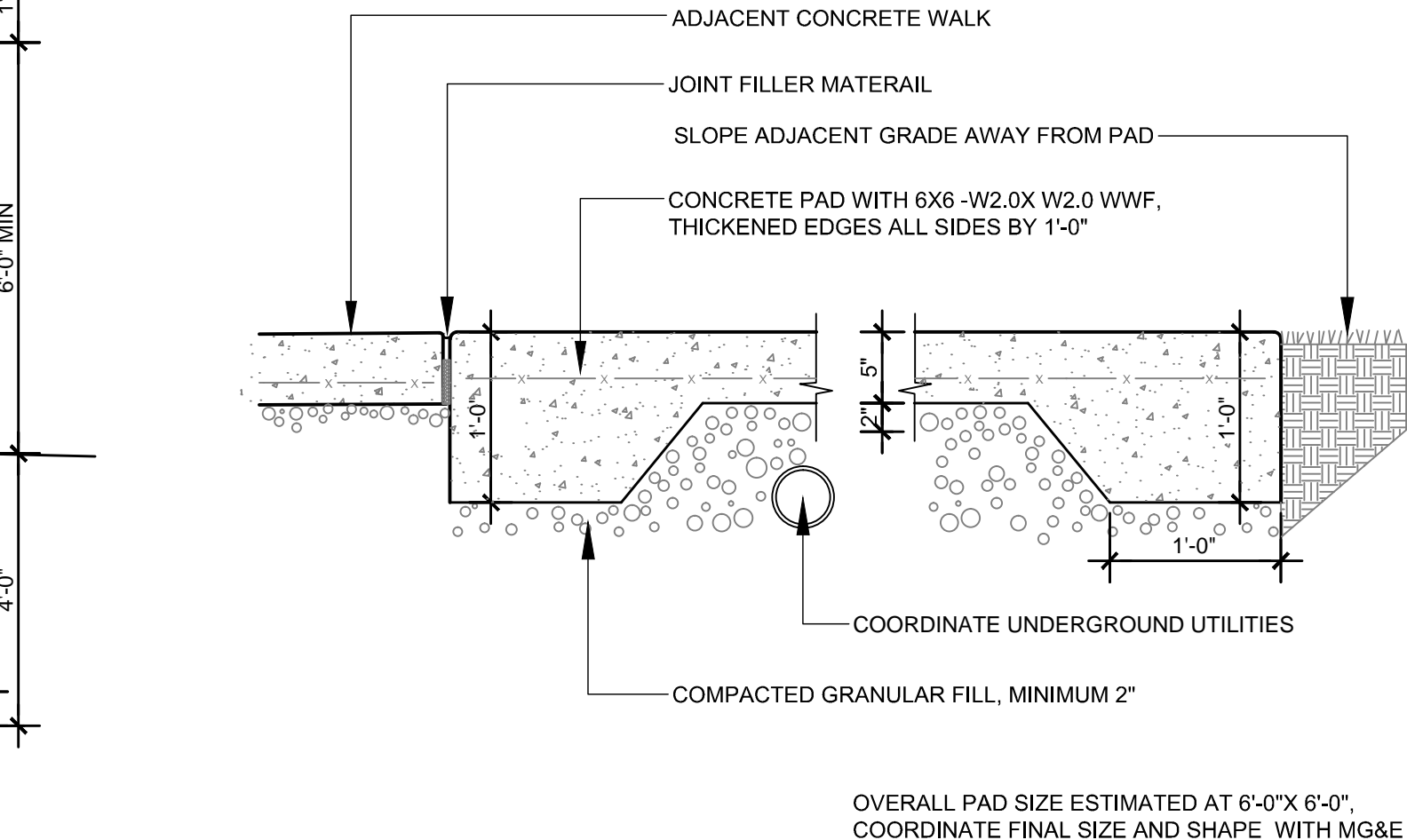
5 DETAIL - DOWNSPOUT TERMINATION
1" = 1'-0"



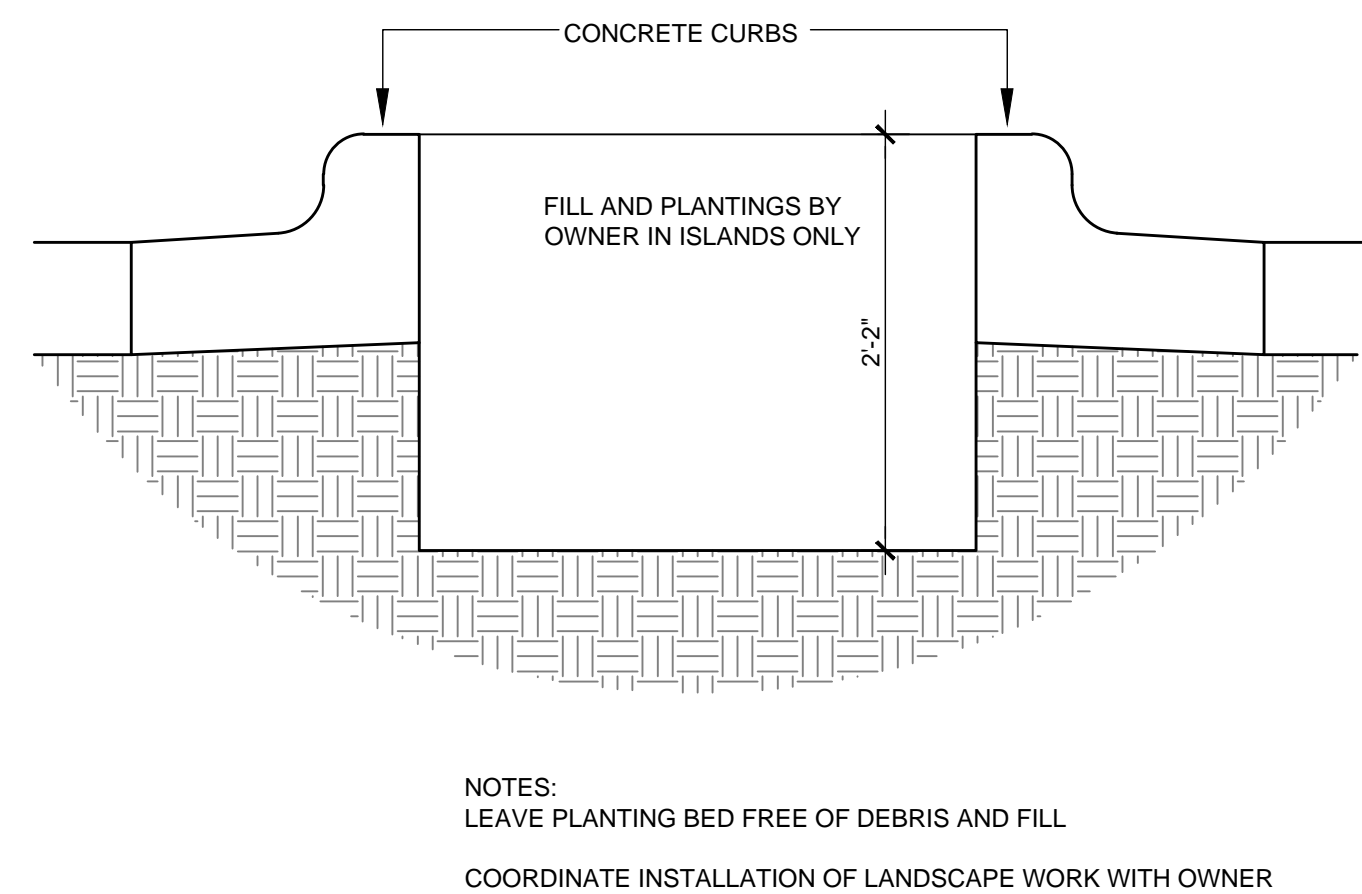
8 TREE PROTECTION & CONSTRUCTION FENCE
1" = 1'-0"



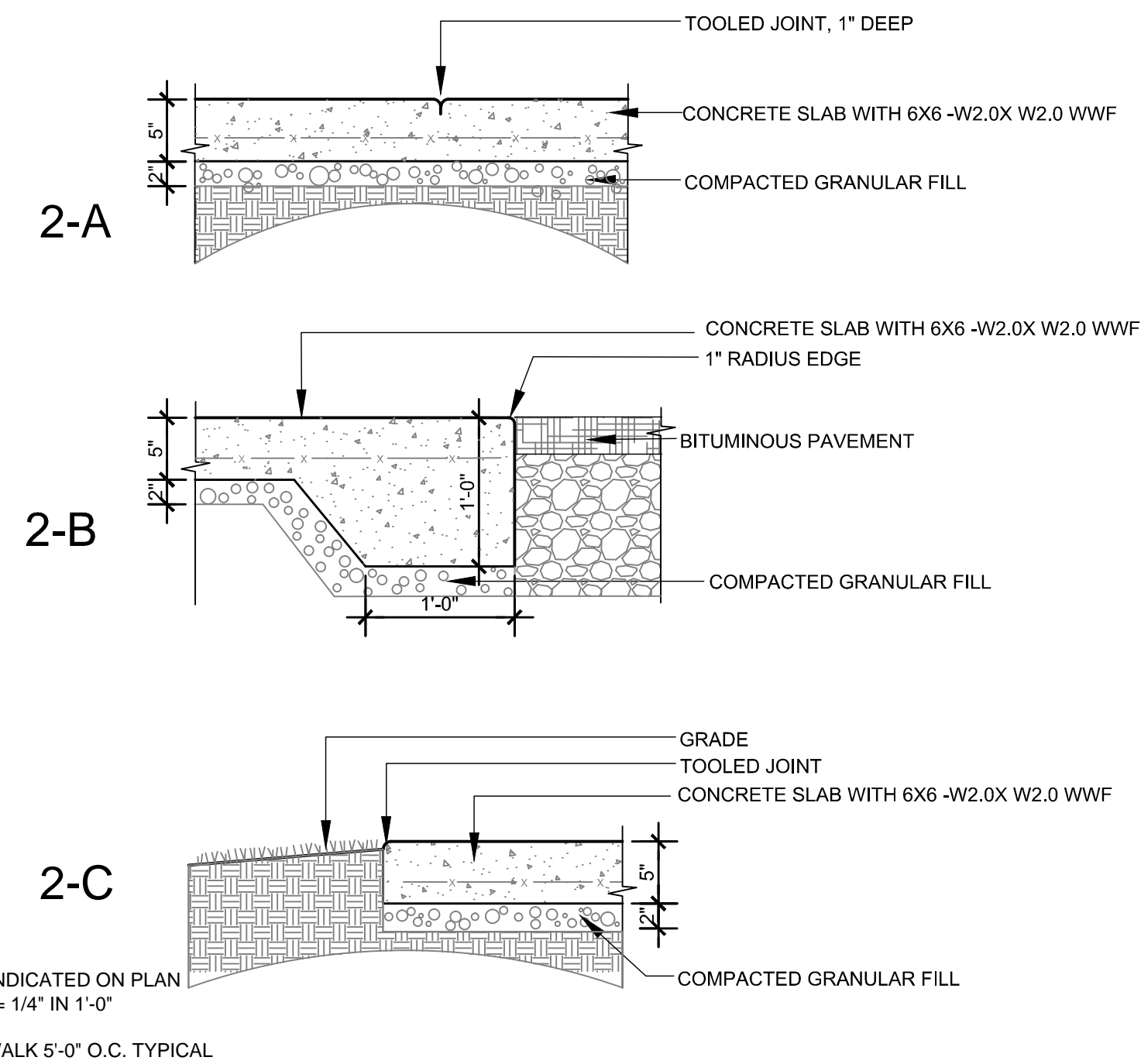
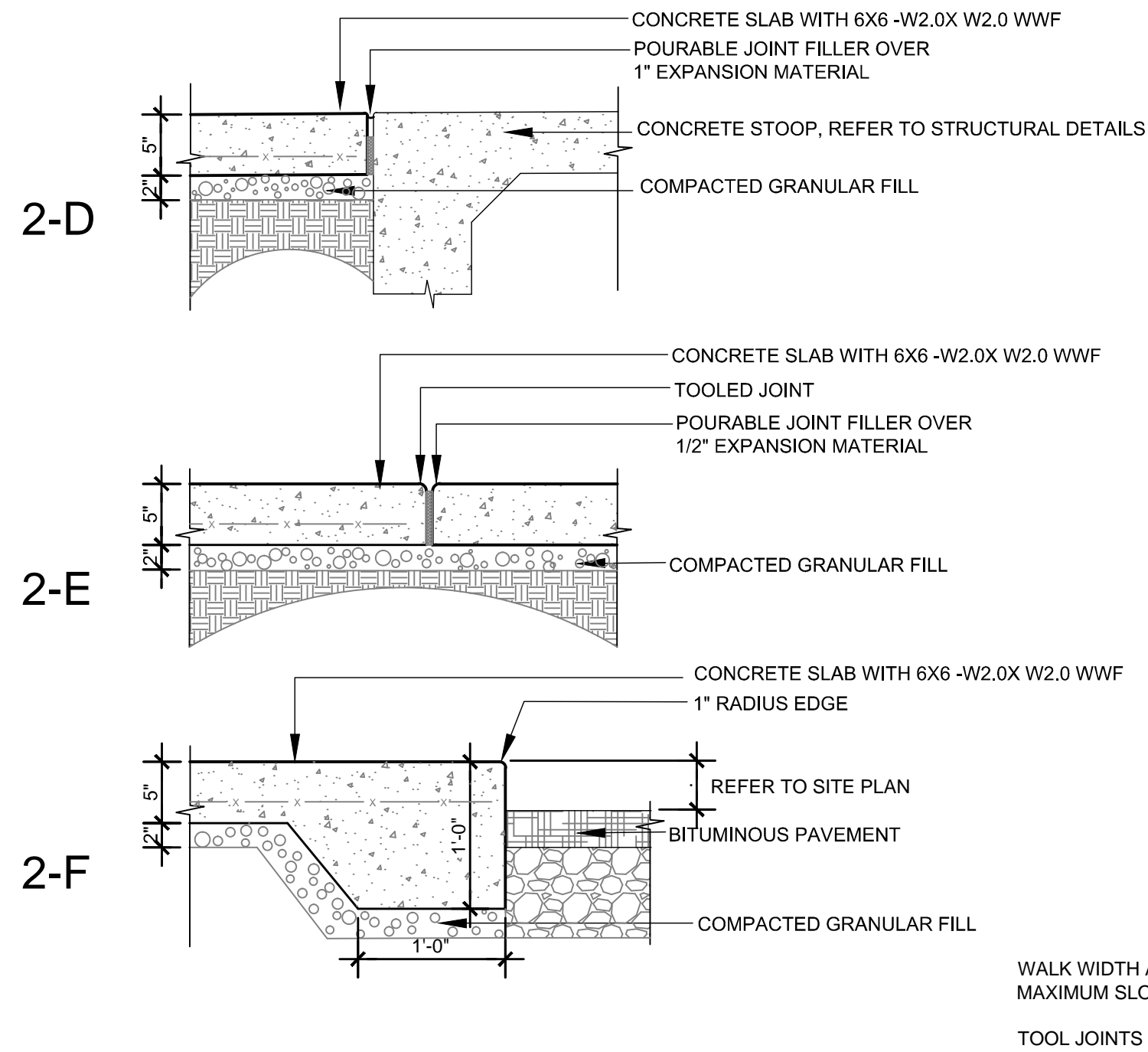
9 CONCRETE WHEEL STOP
1" = 1'-0"



12 TRANSFORMER PAD DETAIL
1" = 1'-0"



10 PLANTER BED
1" = 1'-0"



assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

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10 MANOR DRIVE
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PROJECT

SHEET NAME

SITE DETAILS



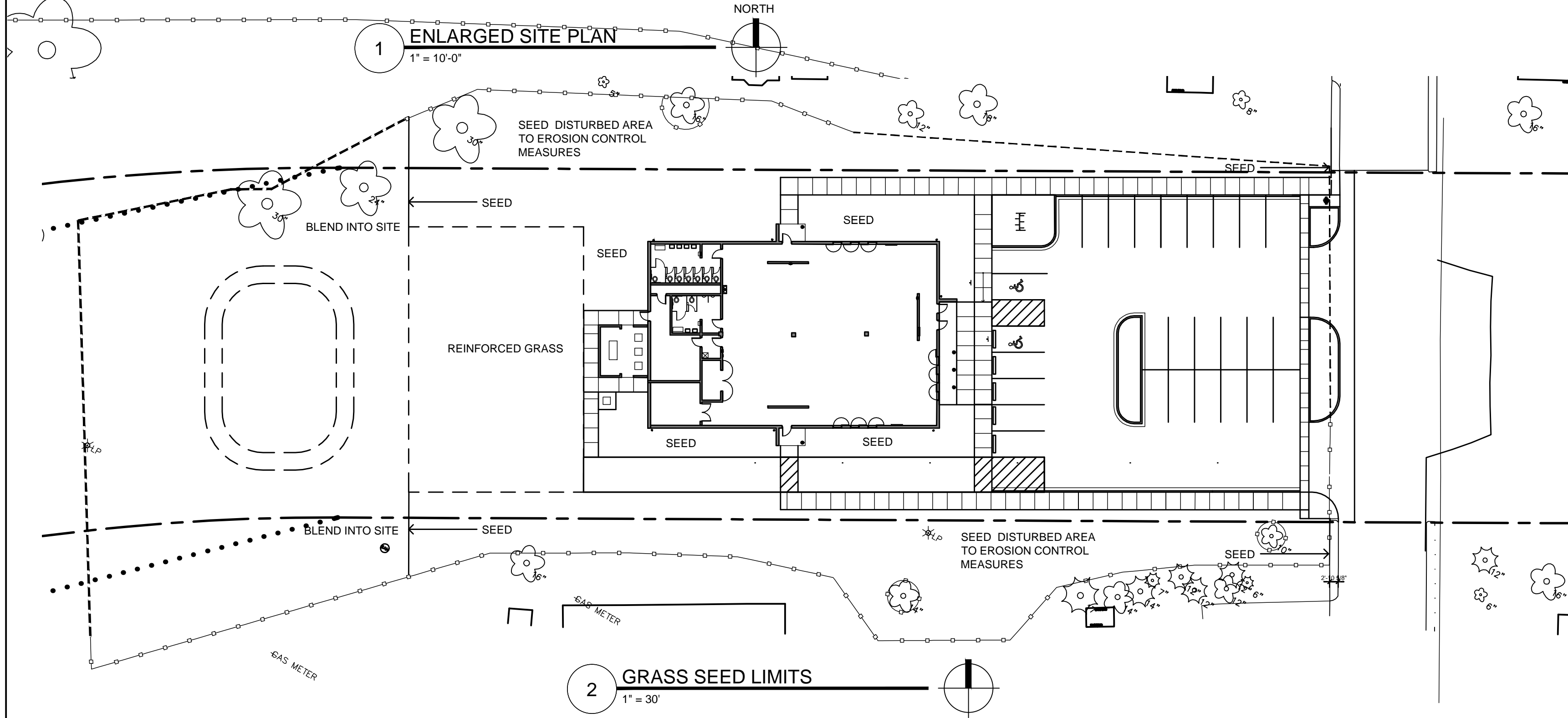
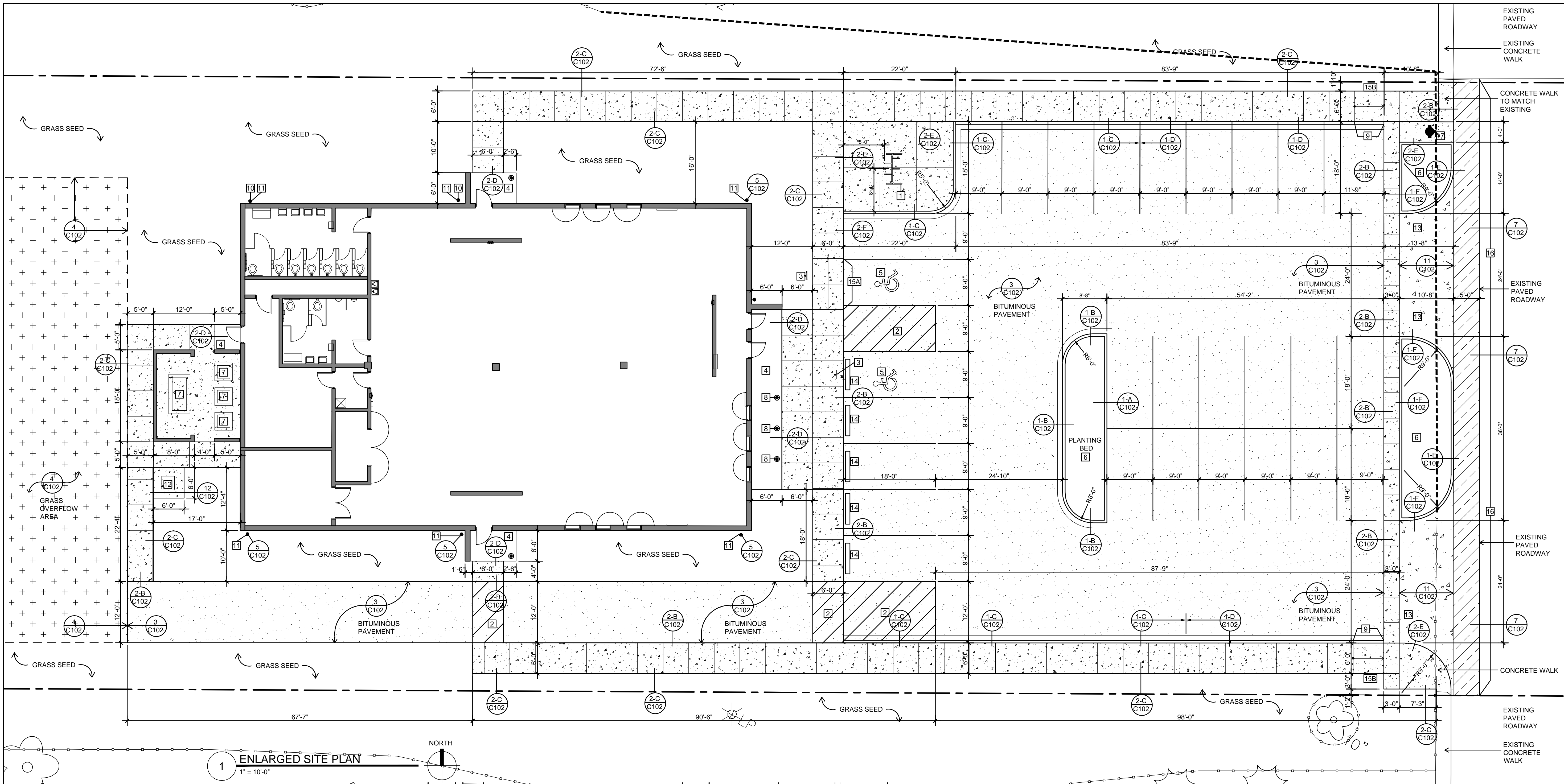
CITY OF MADISON
Contract: 7343

REVISION	DATE

PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014

SHEET NUMBER

C102



SITE GENERAL NOTES:

1. REFER TO SITE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND DETAILS
2. SLOPE SURFACES AWAY FROM BUILDING
3. PROVIDE EXPANSION JOINT MATERIAL BTW CONCRETE POURS AND BTW CONCRETE
4. REFER TO ELECTRICAL FOR EXTERIOR POWER ENTRANCE AND LOCATIONS
5. REFER TO PLUMBING FOR EXTERIOR WATER ENTRANCE AND LOCATIONS
6. REFER TO MECHANICAL FOR EXTERIOR GAS ENTRANCE AND LOCATIONS
7. RESTORE SITE INCLUDING DISTURBED AREAS OUTSIDE CONSTRUCTION LIMITS WITH GRASS SEED GROUND COVER WITH THE EXCEPTION OF THE AREAS IDENTIFIED AS LANDSCAPING BY THE OWNER (BIORETENTION POND AND PLANTING BEDS)

- SITE PLAN SYMBOLS KEY:**
- REINFORCED CONCRETE SIDEWALK, TYPICAL 5'-0" JOINTS, REFER TO 2-A, 2-E / C102
 - PAINT STRIPPING ON ASPHALT PAVEMENT
 - ASPHALT PAVEMENT REFER TO 3 / C102
 - REINFORCED GRASS REFER TO 4 / C102
 - ASPHALT PAVEMENT AND BASE REMOVED TO ACCOMMODATE CURB INSTALLATION
 - PAINT LINES ON ASPHALT PAVEMENT
 - DETAIL REFERENCE

- SPECIFIC SITE NOTES:**
- 1 BIKE RACKS - MADRX DIVISION: SPARTAN DOUBLE SIDE 5 BIKE CAPACITY. SURFACE MOUNTED WITH 1/2" DIA X 3 1/2" STAINLESS STEEL EXPANSION BOLTS
 - 2 STRIPED ASPHALT PAVING
 - 3 BARRIER FREE PARKING SIGN, REFER TO 6 / C102
 - 4 CONCRETE STOOP, REFER TO STRUCTURAL FOR FOOTINGS
 - 5 BARRIER FREE SYMBOL PAINTED ON ASPHALT
 - 6 PLANTING BED - REFER TO 10 / C102
 - 7 EQUIPMENT PADS, REFER TO MECHANICAL FOR DETAIL
 - 8 BUILDING COLUMNS
 - 9 NOSE DOWN CURB TO MEET EXISTING PAVEMENT (APPROX. 6'-0")
 - 10 CONCRETE SPLASHBLOCK AT BOTTOM OF DOWN SPOUT
 - 11 ROOF DOWNSPOUT LOCATION - COORDINATE FINAL LOCATION
 - 12 PROPOSED TRANSFORMER LOCATION, PROVIDE REINFORCED CONCRETE PAD, COORDINATE PAD SIZE AND LOCATION WITH MG&E REFER TO 12 / C102
 - 13 CONCRETE APRON - REFER TO 11 / C102
 - 14 WHEEL STOP - REFER TO 9 / C102
 - 15A SLOPED WALK: 10'-0" LONG, DOWN 6"
 - 15B SLOPED WALK: 6'-0" LONG, DOWN 6"
 - 16 REMOVE EXISTING ASPHALT PAVING AS REQUIRED TO INSTALL CURBS AND GUTTER SYSTEM. REPLACE BASE COURSE AND ASPHALT TOPPING FLUSH WITH EXISTING ROADWAY SURFACE
 - 17 FIRE HYDRANT

**assemblage
ARCHITECTS**

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN
ENLARGED SITE PLAN



CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
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C103

EROSION CONTROL NOTES:

EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY.

THE CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL FINAL ACCEPTANCE BY THE CITY OF MADISON.

THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH THE WDNR SOC STANDARDS AND CITY OF MADISON STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY UTILIZE PREVIOUSLY INSTALLED EROSION CONTROLLED MEASURES

THE CONTRACTOR SHALL PROVIDE STREET CLEANING AS NEEDED ON A DAILY BASIS TO KEEP TRACKING TO A MINIMUM.

PROVISION OF AN EROSION CONTROL IMPLEMENTATION PLAN BY THE CONTRACTOR AT THE PRE-CON IS REQUIRED.

THE CONTRACTOR SHALL PROVIDE A CONSTRUCTION DEWATERING PLAN AS PART OF THE EROSION CONTROL IMPLEMENTATION PLAN.

POLYMER SHALL BE APPLIED TO DISTURBED AREAS AS DIRECTED BY THE CONSTRUCTION ENGINEER.

THE CONTRACTOR SHALL PROTECT ALL EXISTING STORM SEWER INSTALLED PRIOR TO THIS PROJECT. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

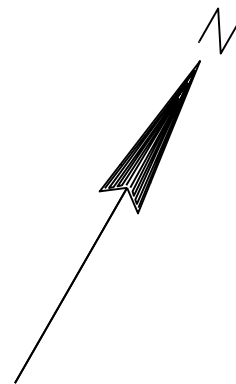
CONSTRUCTION ENTRANCE
(S.D.D. 1.07)

TYPE D HYBRID INLET
PROTECTION

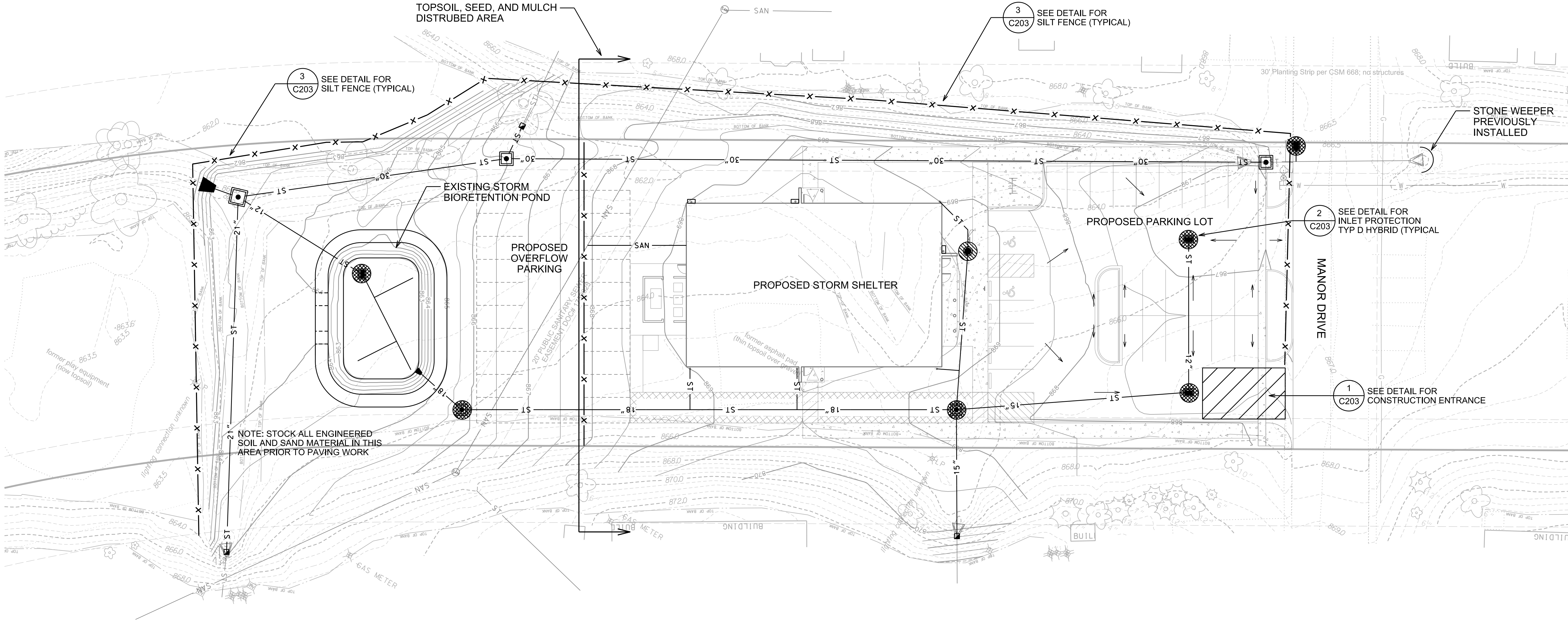
TYPE C INLET
PROTECTION

X

SILT FENCE



SCALE
1" = 20'



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7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960



HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

EROSION CONTROL PLAN

PROJECT

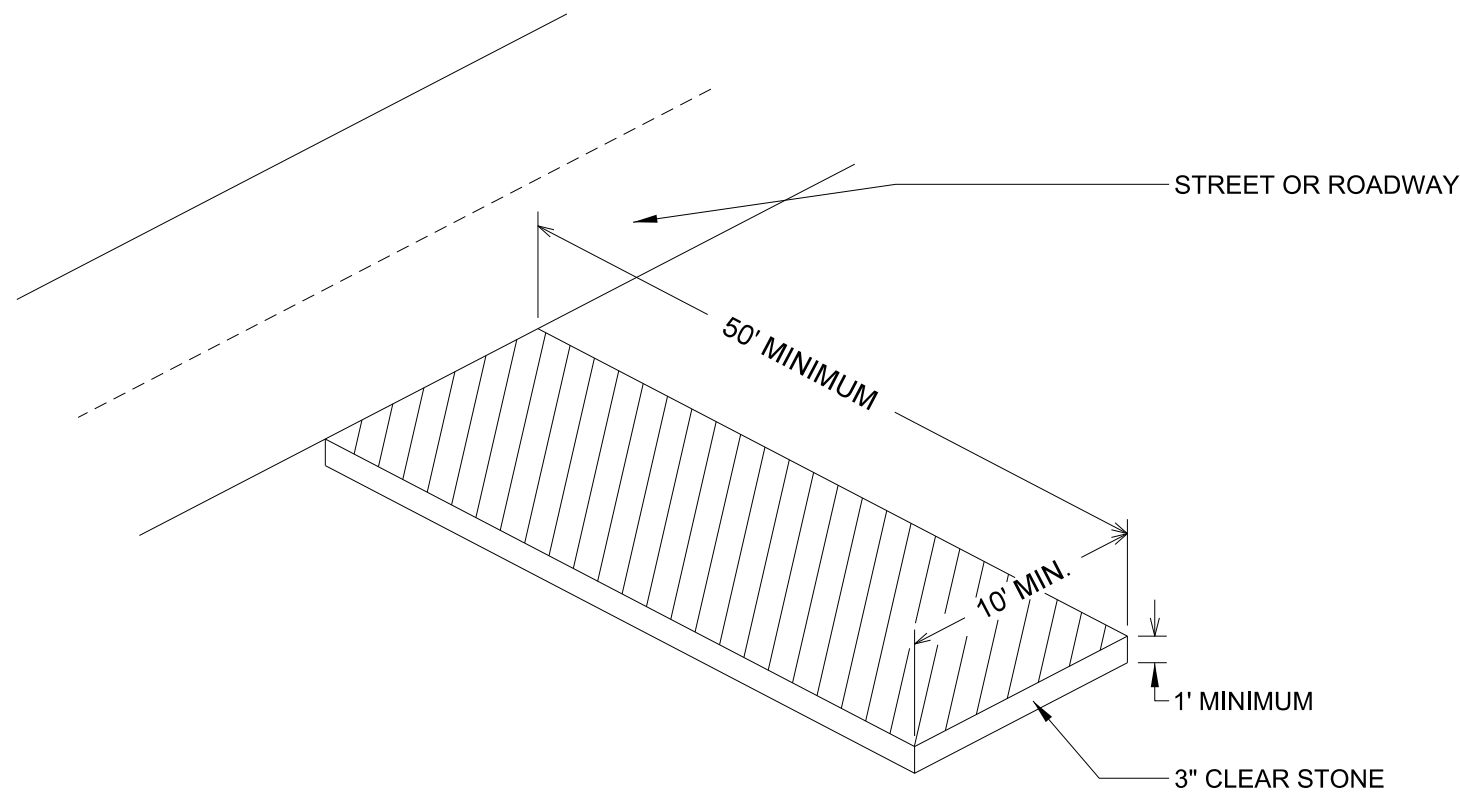
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CITY OF MADISON
Contract: 7343

REVISION	DATE
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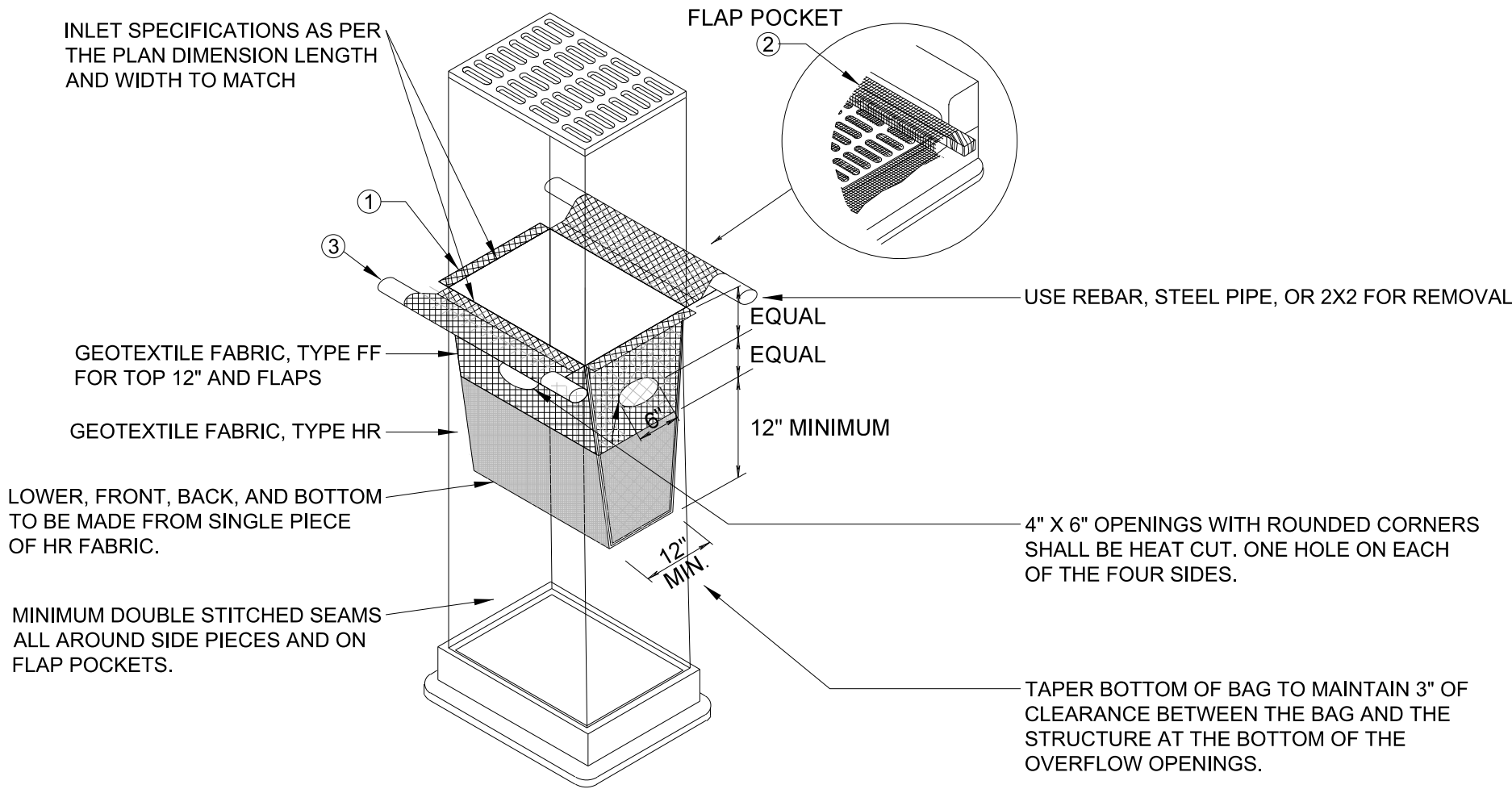
C201



1 CONSTRUCTION ENTRANCE

S.D.D. 1.07 - NOT TO SCALE
GENERAL NOTES:

1. CONSTRUCTION ENTRANCE TO BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE.
2. THE AGGREATE FOR THE CONSTRUCTION ENTRANCE SHALL BE 3 INCH CLEAR OR WASHED STONE.
3. AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12 INCHES THICK.
4. THE CONSTRUCTION ENTRANCE SHALL BE UNDERLAIN WITH A WDOT TYPE HR OR FF GEOTEXTILE FABRIC TO PREVENT MIGRATION OF UNERLYING SOIL INTO THE STONE.
5. SURFACE WATERS MUST BE PREVENTED FROM PASSING THROUGH THE CONSTRUCTION ENTRANCE. FLOWS SHALL BE DIVERTED AWAY FROM THE CONSTRUCTION ENTRANCE OR CONVEYED UNDER AND AROUND THEM BY USE OF A CULVERT, DIVERSION BERM OR OTHER PRACTICES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. CLEANING BY SCRAPING OR ADDING NEW STONE SHALL BE REQUIRED IF ENTRANCE BECOMES MORE THAN 50% COVERED BY TRACKED MUD.



2 INLET PROTECTION TYPE D HYBRID

S.D.D. 1.11 - NOT TO SCALE
GENERAL NOTES:

CLEANING SHALL BE REQUIRED WHEN SEDIMENT OR STANDING WATER IS WITHIN 6" OF THE OVERFLOW HOLES OR AS DIRECTED BY THE CONSTRUCTION ENGINEER.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOE HOLES, OF 3".

1. SIDE FLAPS SHALL BE A MAXIMUM OF 2' LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STICHES.
2. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X2. THE 2X2 SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALK OF THE CURB FACE OPENING.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.

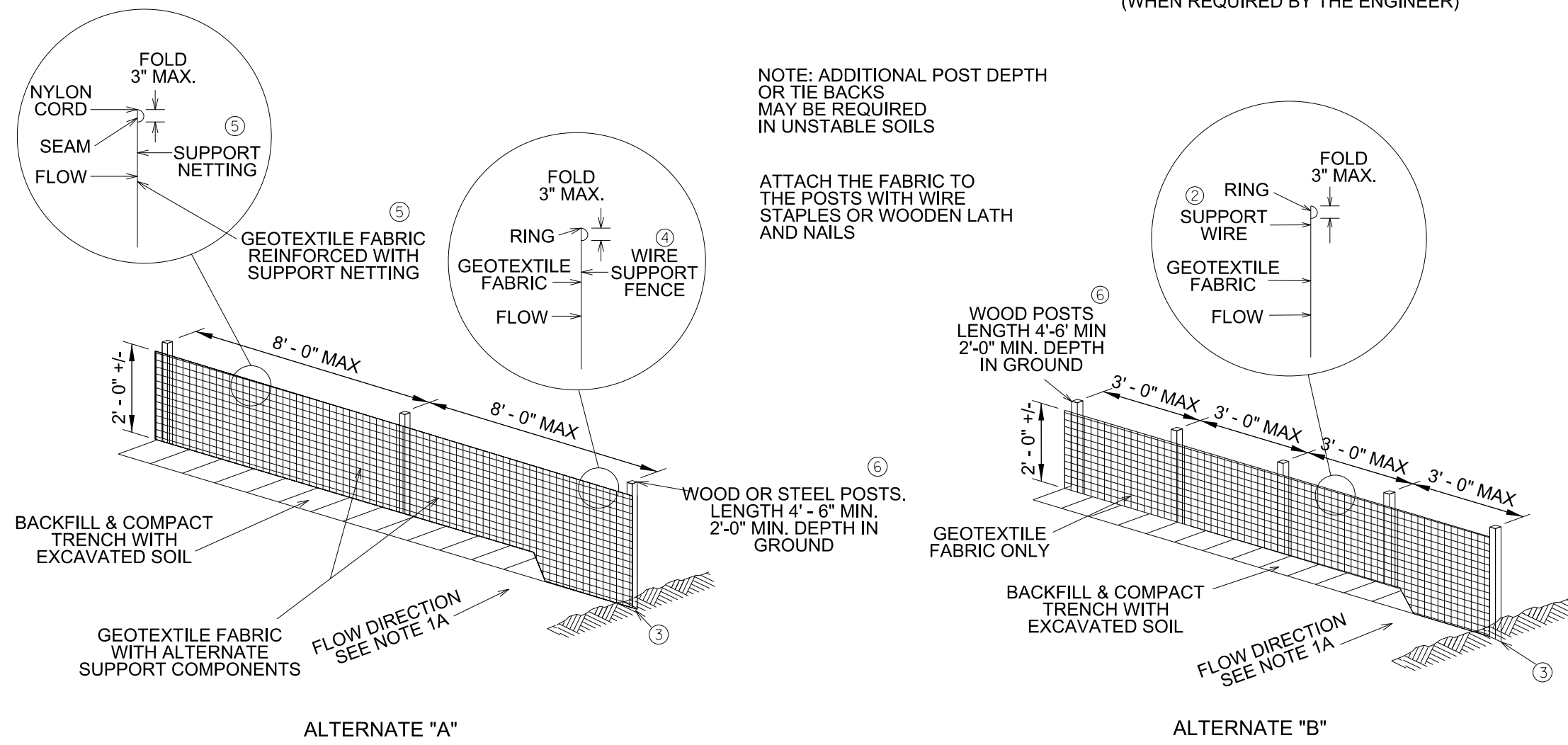
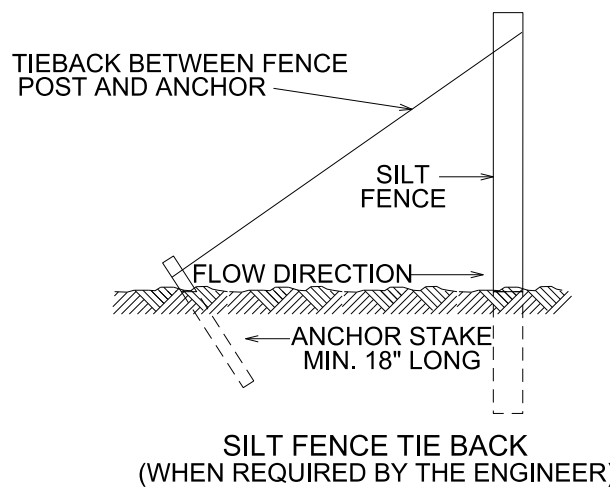
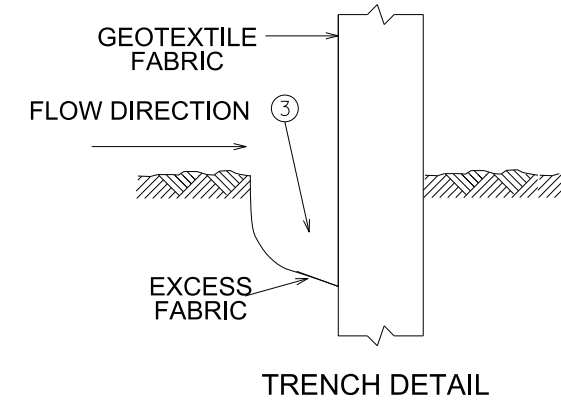
GENERAL NOTES

DETAIL OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- 1A. WHEN POSSIBLE THE SILT FENCE SHOULD BE CONSTRUCTED IN AN ARC OR HORSESHOE SHAPE WITH THE ENDS POINTING UPSLOPE TO MAXIMIZE BOTH STRENGTH AND EFFECTIVENESS.
1. CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
2. MINIMUM 14 GAGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C-C.
3. EXCAVATE A TRENCH A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
4. WIRE SUPPORT FENCE SHALL BE 14 GAGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C-C.
5. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3" OR EQUAL. A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED.
6. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS/LINEAL FOOT (WITHOUT ANCHOR). FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 4" DIA. OR 1 1/2" X 3 1/2" EXCEPT WOOD POSTS FOR GEOTEXTILE FABRIC REINFORCED WITH NETTING SHALL BE A MINIMUM SIZE OF 1 1/2" X 1 1/2" OAK OR HICKORY.

ALTERNATES A & B ARE EQUAL AND EITHER MAY BE USED.

1. REMOVAL OF ACCUMULATED SILT IS REQUIRED ONCE IT REACHES HALF THE HEIGHT OF THE SILT FENCE.



3 SILT FENCE

S.D.D. 1.01 - NOT TO SCALE

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7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

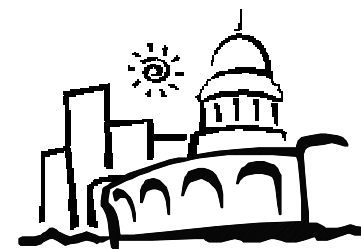


HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

EROSION CONTROL DETAILS

PROJECT

SHEET NAME



CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

C203

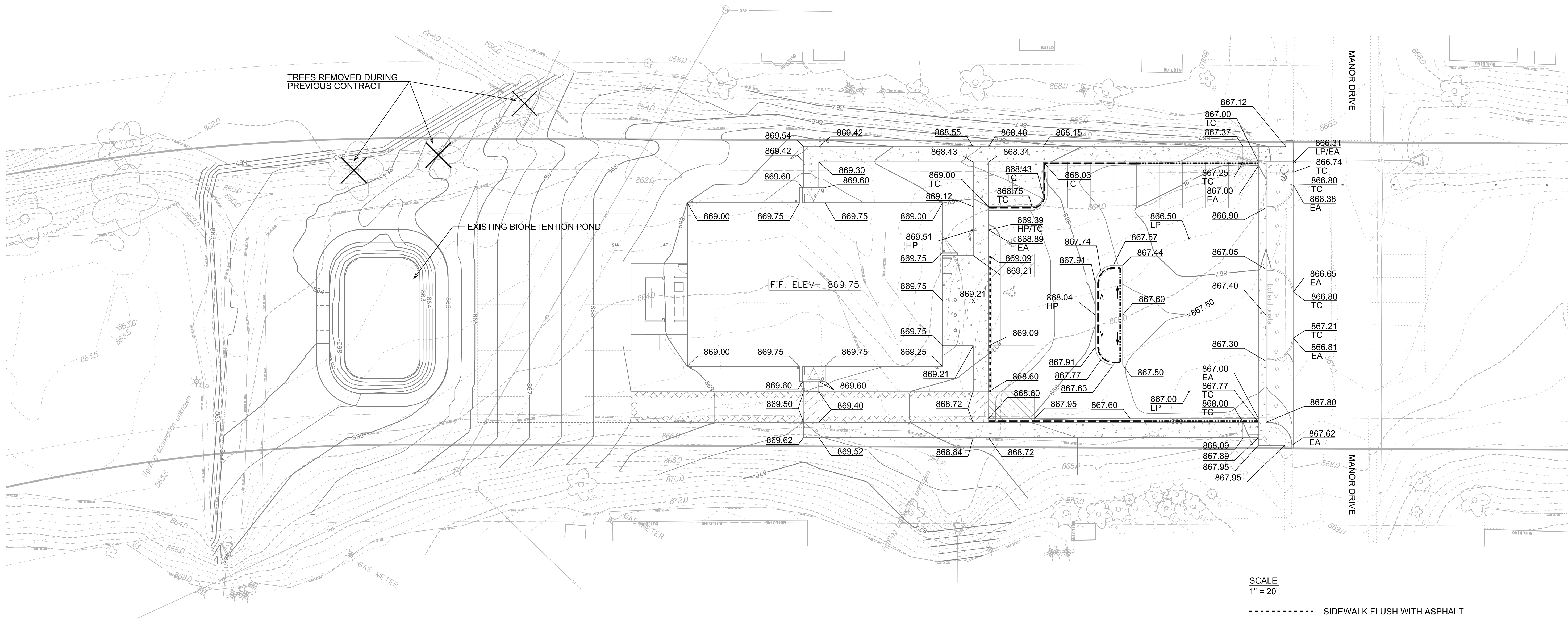
GENERAL NOTE:

IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS, THE BUILDING PAD FOR THE PROPOSED BUILDING IS TO BE ROUGH GRADED TO A SUBGRADE ELEVATION, 11.5 INCHES (3.3 INCH FLOOR SLAB & 8 INCHES OF BASE COURSE) BELOW THE FINISHED FLOOR ELEVATION SHOWN ON THE GRADING PLAN.

IN ACCORDANCE WITH THE SITE PREPARATION RECOMMENDATIONS IN CGC'S SEPTEMBER 3, 2013 GEOTECHNICAL REPORT: AFTER SUBGRADE PREPARATION, FILL IS TO BE PLACED WITHIN AND 10 FT. BEYOND THE BUILDING LIMITS OF THE PROPOSED BUILDING PAD, 4 TO 6 WEEKS PRIOR TO BEGINNING FOUNDATION EXCAVATION. CUT AND FILL GRADING AND PLACEMENT OF FILL MATERIAL TO THE FLOOR SLAB SUBGRADE ELEVATION SHOULD OCCUR FIRST, FOLLOWED BY A 4 TO 6 WEEK PERIOD WHERE THE UNDERLYING SOILS CAN CONSOLIDATE PRIOR TO THE FOOTINGS BEING EXCAVATED THROUGH THE NEW FILL. THIS IS BEING DONE TO ALLOW MOST OF THE SETTLEMENT DUE TO THE WEIGHT OF THE NEW FILL TO OCCUR PRIOR TO BEGINNING FOUNDATION CONSTRUCTION. THREE TO FIVE SETTLEMENT PLATFORMS (SEE APPENDIX E OF THE GEOTECHNICAL REPORT FOR DETAIL) SHOULD BE INSTALLED WITHIN THE BUILDING FOOTPRINT TO DOCUMENT THAT SETTLEMENT HAS CEASED PRIOR TO BEGINNING FOUNDATION EXCAVATION. THE SETTLEMENT PLATFORMS SHOULD BE SURVEYED IMMEDIATELY AFTER GRADING AND FILL PLACEMENT TO THE FLOOR SLAB SUBGRADE ELEVATION OCCURS. THEY SHOULD THEN BE SURVEYED ON A WEEKLY BASIS UNTIL THREE CONSECUTIVE READINGS AT EACH SETTLEMENT PLATFORM SHOW THAT SETTLEMENT HAS CEASED.

THE TOP OF THE FOOTINGS FOR THE BUILDING FOUNDATION SYSTEM ARE TO BE GRADED TO AND INSTALLED, IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS, 5 FEET BELOW THE FINISHED FLOOR ELEVATION SHOWN ON THE GRADING PLAN.

PROPOSED SUBGRADE ELEVATION FOR THE PARKING LOT IS TO BE ROUGH GRADED TO 11 INCHES BELOW THE FINISHED GRADE ELEVATIONS SHOWN ON THE GRADING PLAN, AS PER THE PARKING LOT ASPHALT PAVEMENT SECTION DETAIL 3, SHOWN ON C102.



SCALE
1" = 20'

- SIDEWALK FLUSH WITH ASPHALT
- CATCH CURB AND GUTTER
- REJECT CURB AND GUTTER

NOTE: ALL PARKING LOT GRADES SHOWN
ARE ASPHALT PAVEMENT GRADES OR
BOTTOM OF CURB/FLOW LINE GRADE

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ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

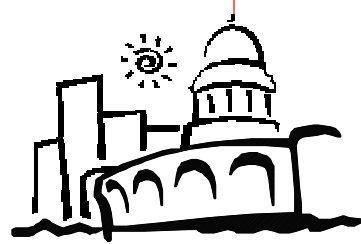


HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

GRADING PLAN

PROJECT

SHEET NAME



CITY OF MADISON
Contract: 7343

REVISION DATE

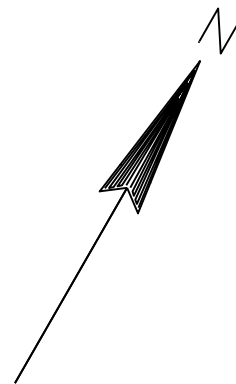
PROJECT NO 1307

SET TYPE BID DOCUMENTS

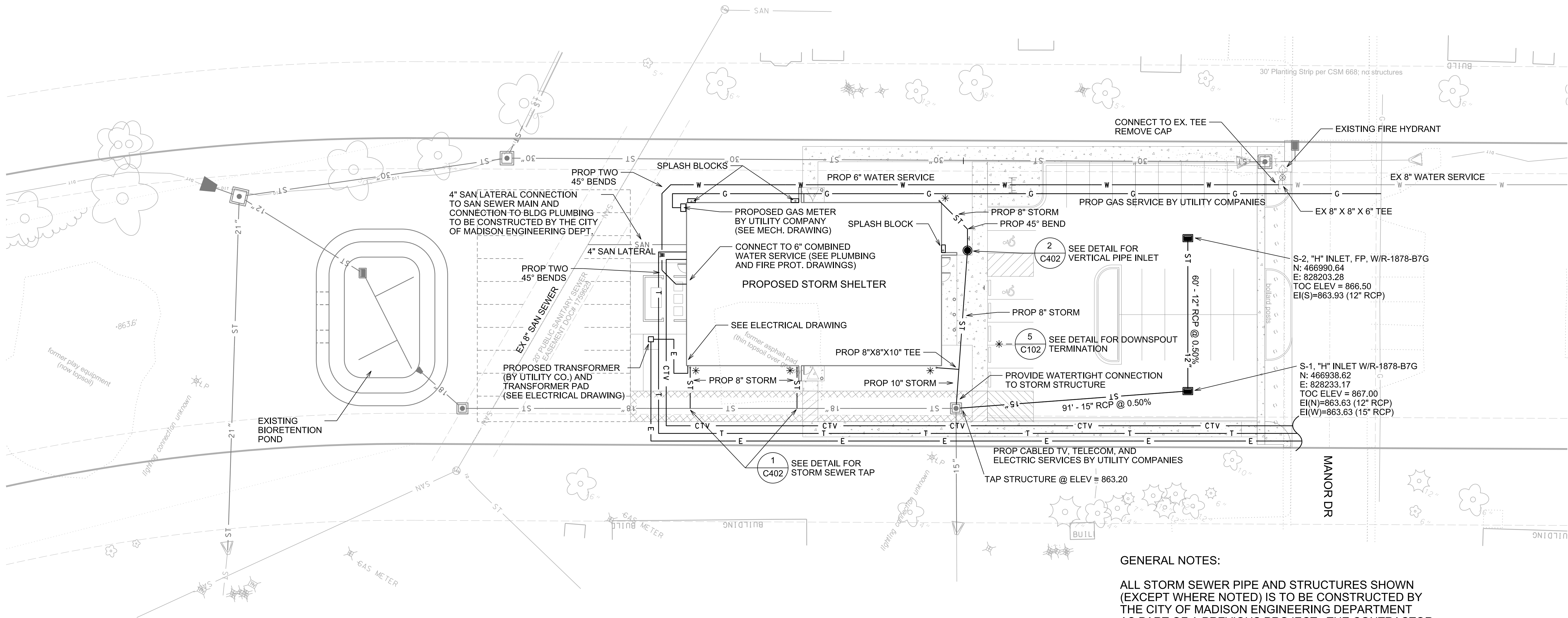
DATE 05-30-2014

SHEET NUMBER

C301



SCALE
1" = 20'



GENERAL NOTES:

ALL STORM SEWER PIPE AND STRUCTURES SHOWN (EXCEPT WHERE NOTED) IS TO BE CONSTRUCTED BY THE CITY OF MADISON ENGINEERING DEPARTMENT AS PART OF A PREVIOUS PROJECT. THE CONTRACTOR SHALL PROTECT ALL EXISTING STORM SEWER INSTALLED PRIOR TO THIS PROJECT. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL DOWNSPOUT STORM SEWER, THE VERTICLE PIPE INLET, STORM SEWER IN THE PARKING LOT, AND ALL CONNECTIONS TO STORM SEWER SYSTEM BY CITY.

CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, AND COORDINATION, FOR WORK BY UTILITY COMPANIES.

ALL STRUCTURES CALLED OUT AS "FP" SHALL BE FIELD POURED. ALL OTHER STRUCTURES, PRECAST STRUCTURES CAN BE USE IF PREFERRED. SHOP DRAWINGS SHALL BE SUBMITTED TO KYLE FRANK OFCITY ENGINEERING (KFRANK@CITYOFMADISON.COM) FOR APPROVAL.

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ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960



HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SITE UTILITY PLAN

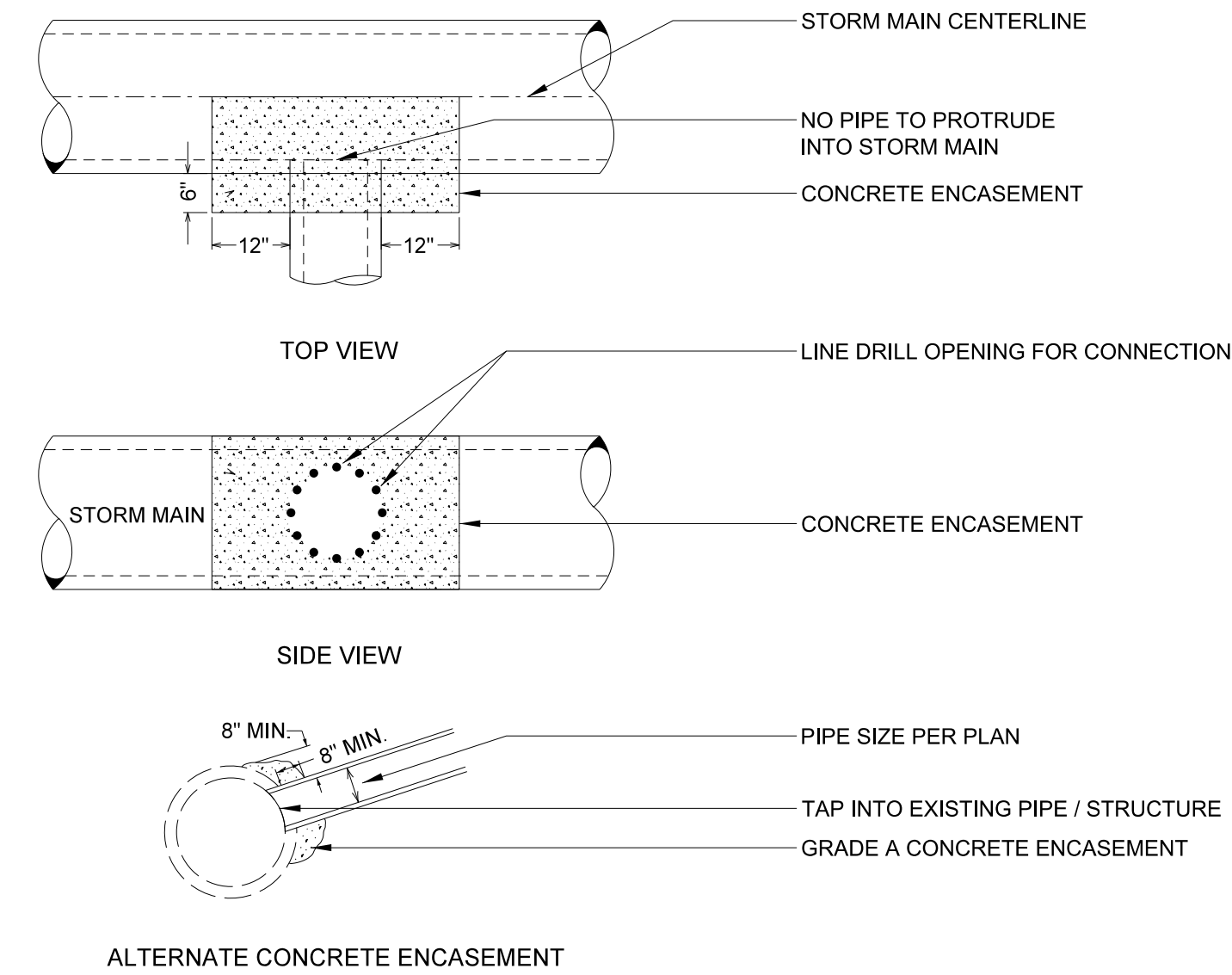
PROJECT



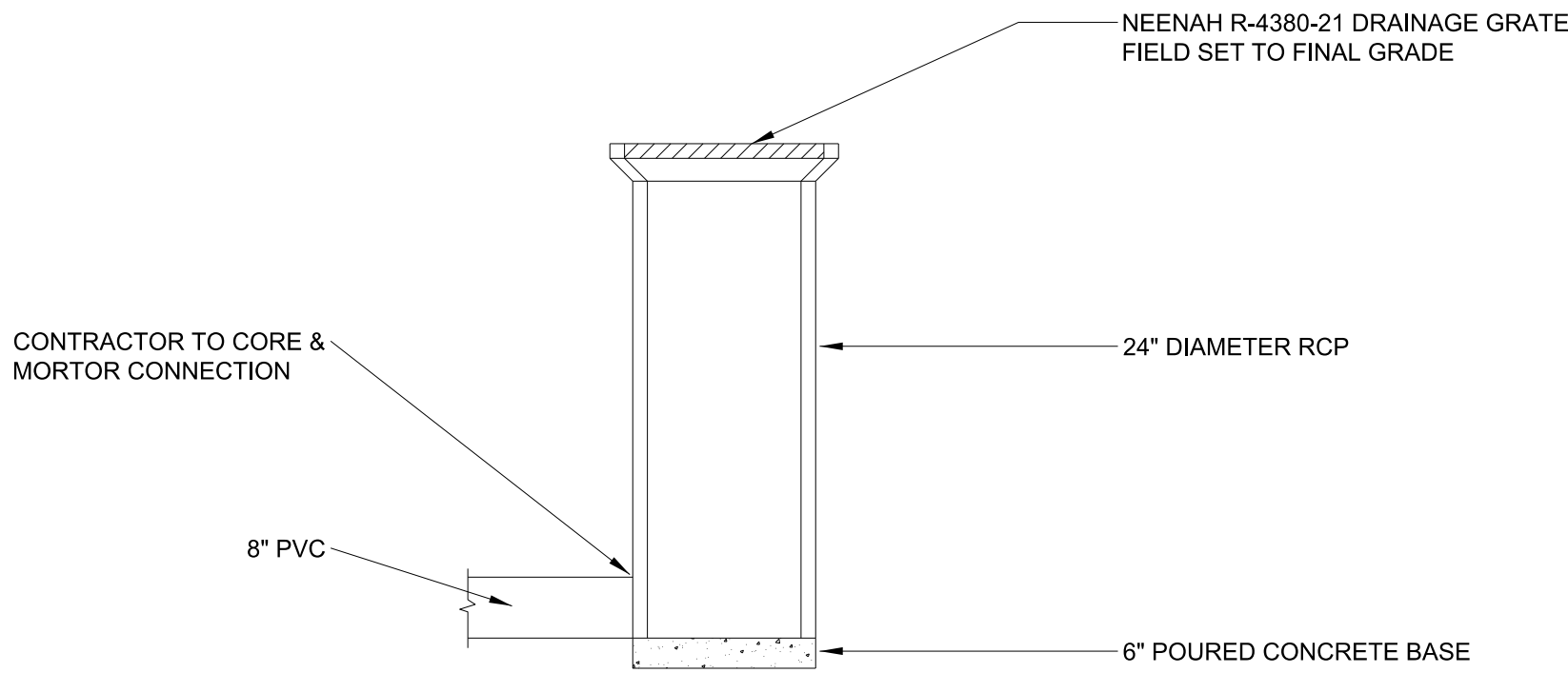
CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

C401



1 STORM SEWER TAP DETAIL
S.D.D. 5.7.32 - NOT TO SCALE



2 VERTICAL PIPE INLET
NOT TO SCALE

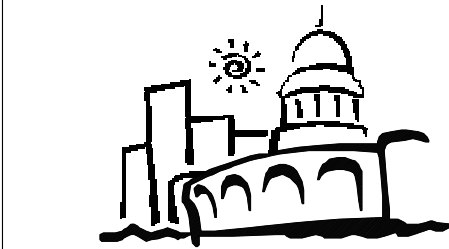
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Middleton, WI 53562
T 608.827.5047
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HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SITE UTILITY DETAILS



CITY OF MADISON
Contract: 7343

REVISION	DATE
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SHEET NUMBER	

C402



GENERAL PLAN NOTES

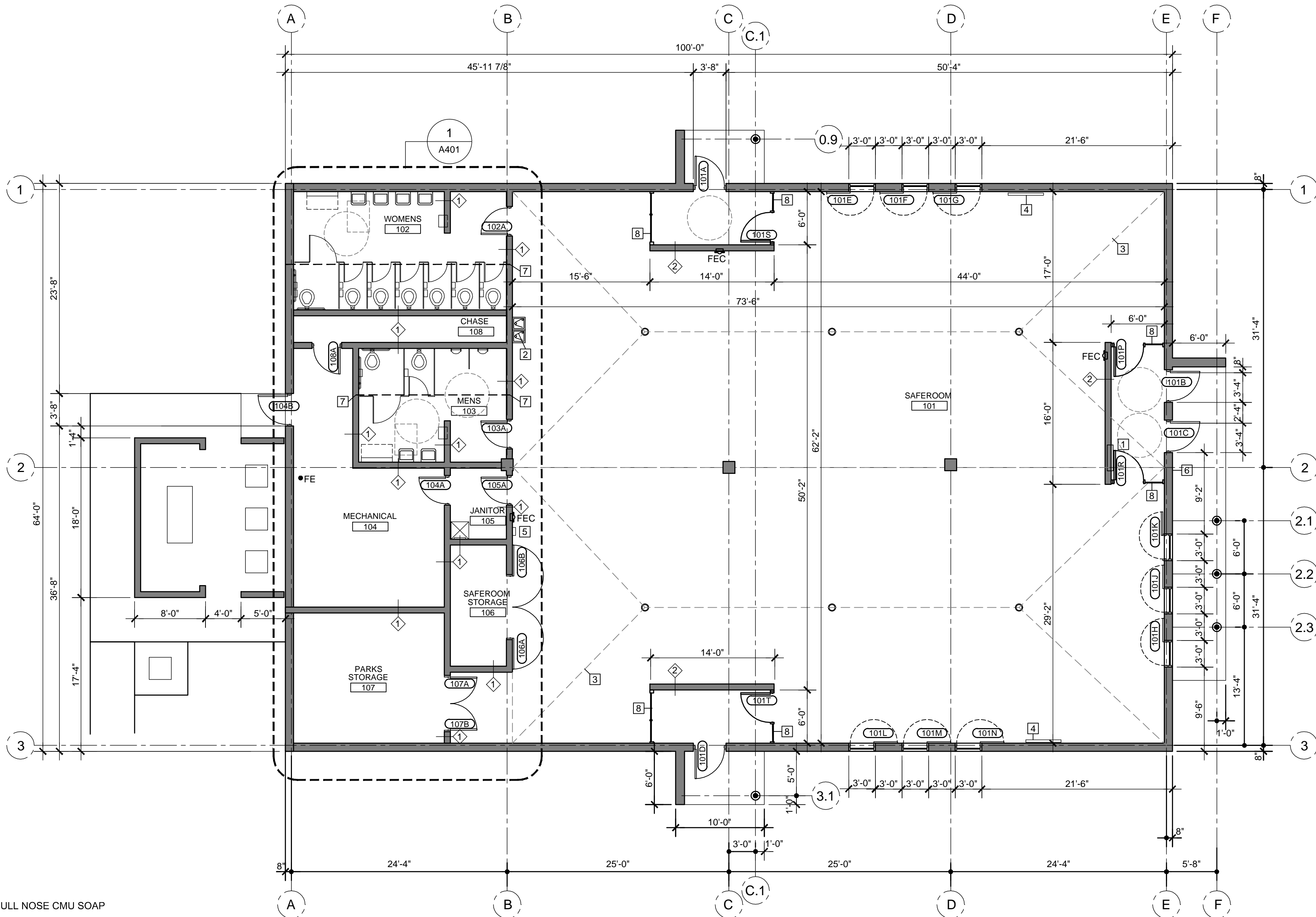
1. REFER TO DRAWING T002 FOR GENERAL NOTES AND OTHER PROJECT INFORMATION.
2. REFER TO ALL DRAWINGS INCLUDING ALL OTHER DISCIPLINES FOR ADDITIONAL GENERAL NOTES, ABBREVIATIONS AND SYMBOLS.
3. GC SHALL COORDINATE MECHANICAL, ELECTRICAL, PLUMBING ROOF, WALL SLEEVE AND SHAFTS WITH OTHER TRADES AND DOCUMENTS.
4. FIRST FLOOR ELEVATION IS ASSUMED AT 100'-0" IN THESE DRAWINGS
5. DASHED LINE INDICATE SLAB SLOPE, REFER TO STRUCTURAL FOR CONTROL JOINT LOCATIONS.
6. DIMENSION ARE TO FACE OF PARTITION UNLESS NOTED OTHERWISE.
7. ALL PARTITIONS TO EXTEND TO UNDERSIDE OF STRUCTURE UNLESS NOTED OTHERWISE.
8. REFER TO ROOM FINISH PLAN AND SCHEDULE FOR INTERIOR FINISHES
9. CONTRACTOR TO VERIFY, DESIGN AND INSTALL TEMPORARY SHORING AS REQUIRED.
10. COORDINATE OWNER SUPPLIED EQUIPMENT.
11. PROVIDE BLOCKING AND REINFORCEMENT AT ACCOMMODATE CASEWORK, EQUIPMENT AND OTHER DEVICES.

PLAN KEY:

- FEC FIRE EXTINGUISHER CABINET
251A DOOR NUMBER - SEE DOOR SCHEDULE A601
PARTITION TYPE TAG

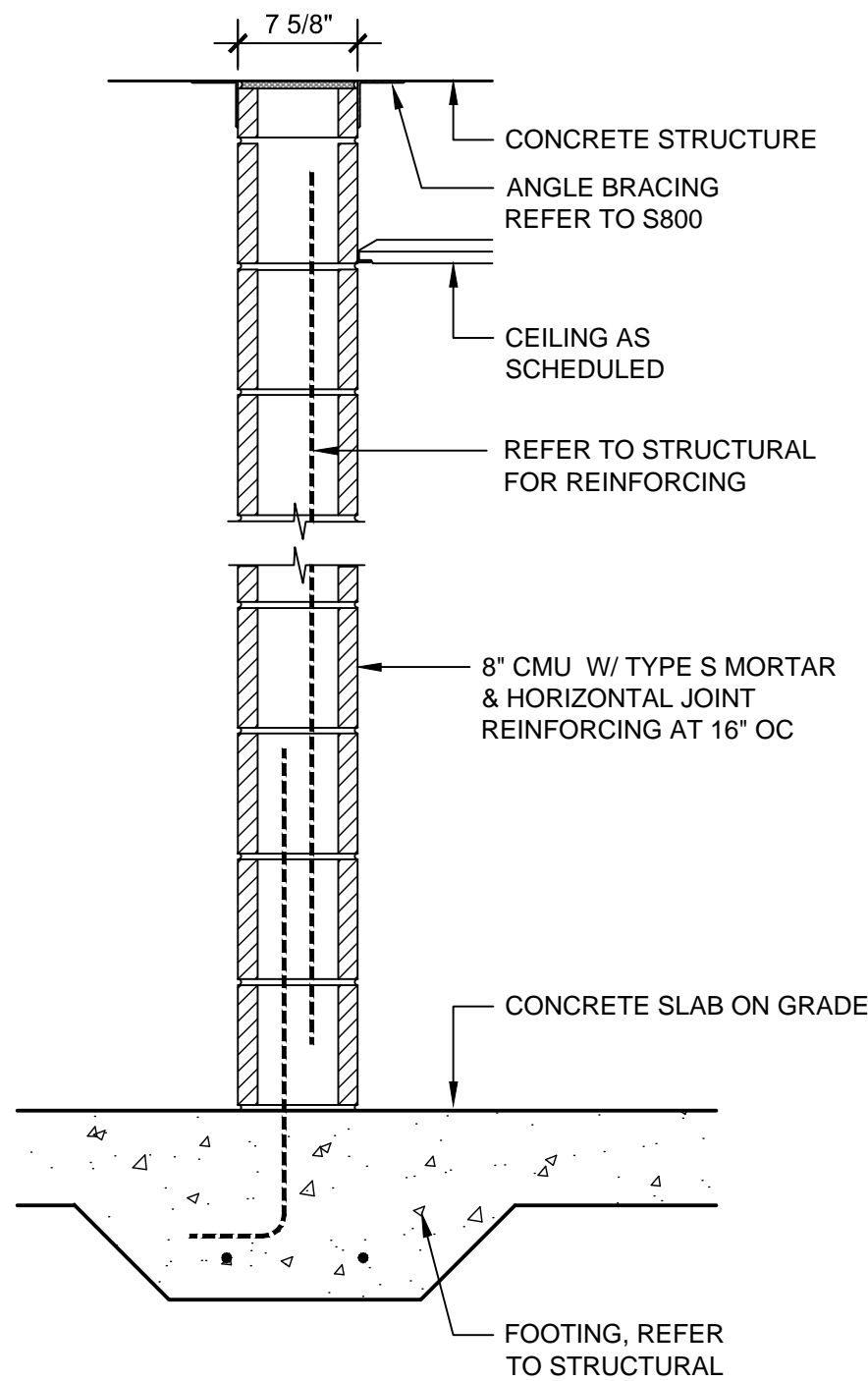
SPECIFIC PLAN NOTES

- 1 FIRE ALARM PANEL
- 2 DRINKING FOUNTAIN
- 3 INDICATES SLOPE OF SLAB, REFER TO STRUCTURAL FOR JOINT LOCATIONS
- 4 TELEVISION LOCATION - BY OWNER
- 5 DEFIBRILLATOR - BY OWNER
- 6 PROVIDE FIRE DEPT. ACCESS LOCK BOX, COORDINATE KEYING WITH FIRE DEPARTMENT
- 7 DETAIL AT STEEL BEAM BEARING - REFER TO 5 / A501 AND 9 / S801
- 8 8" CMU BELOW STOREFRONT FRAMING SYSTEM, REFER TO DETAIL 8 / A501



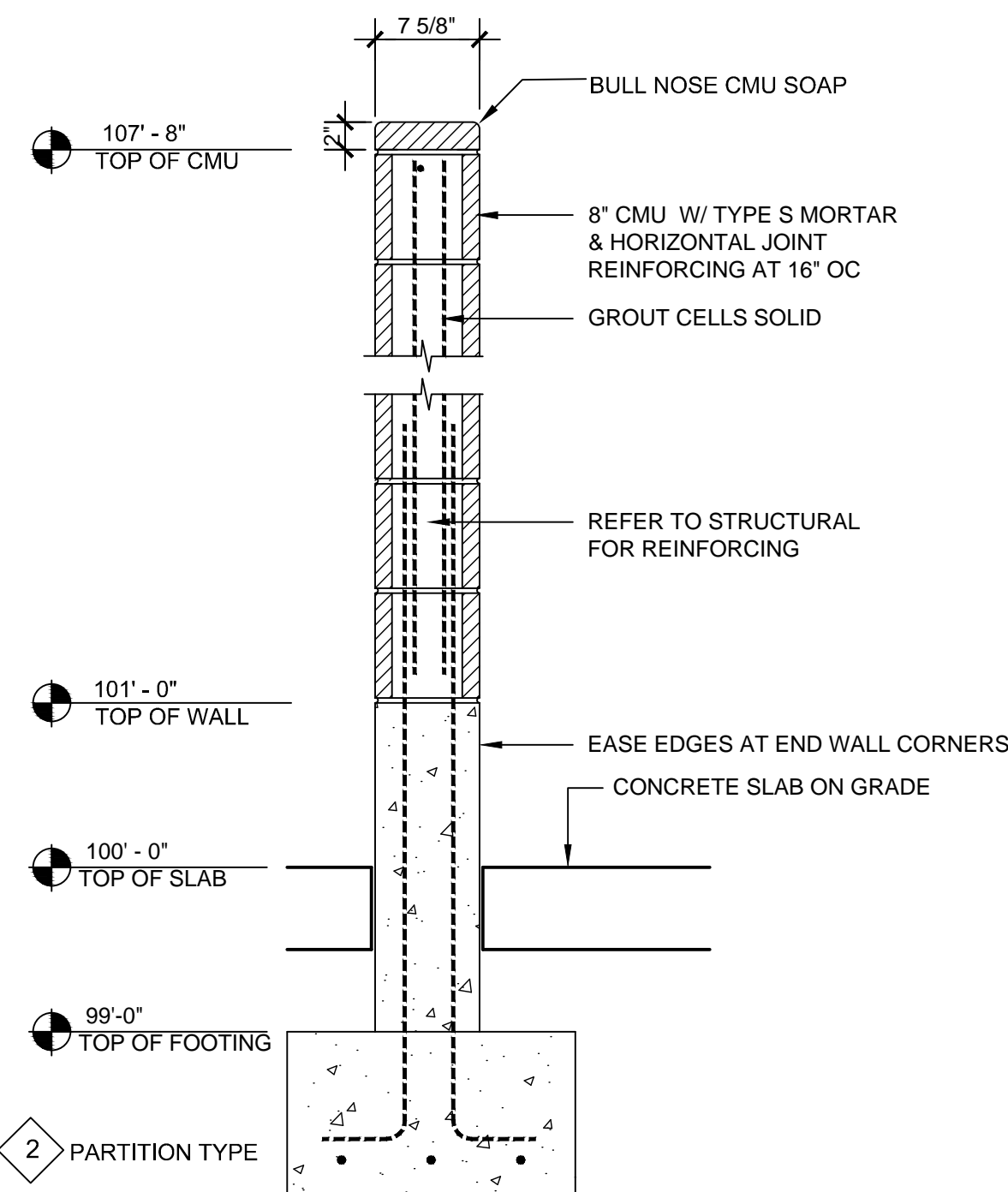
FLOOR PLAN

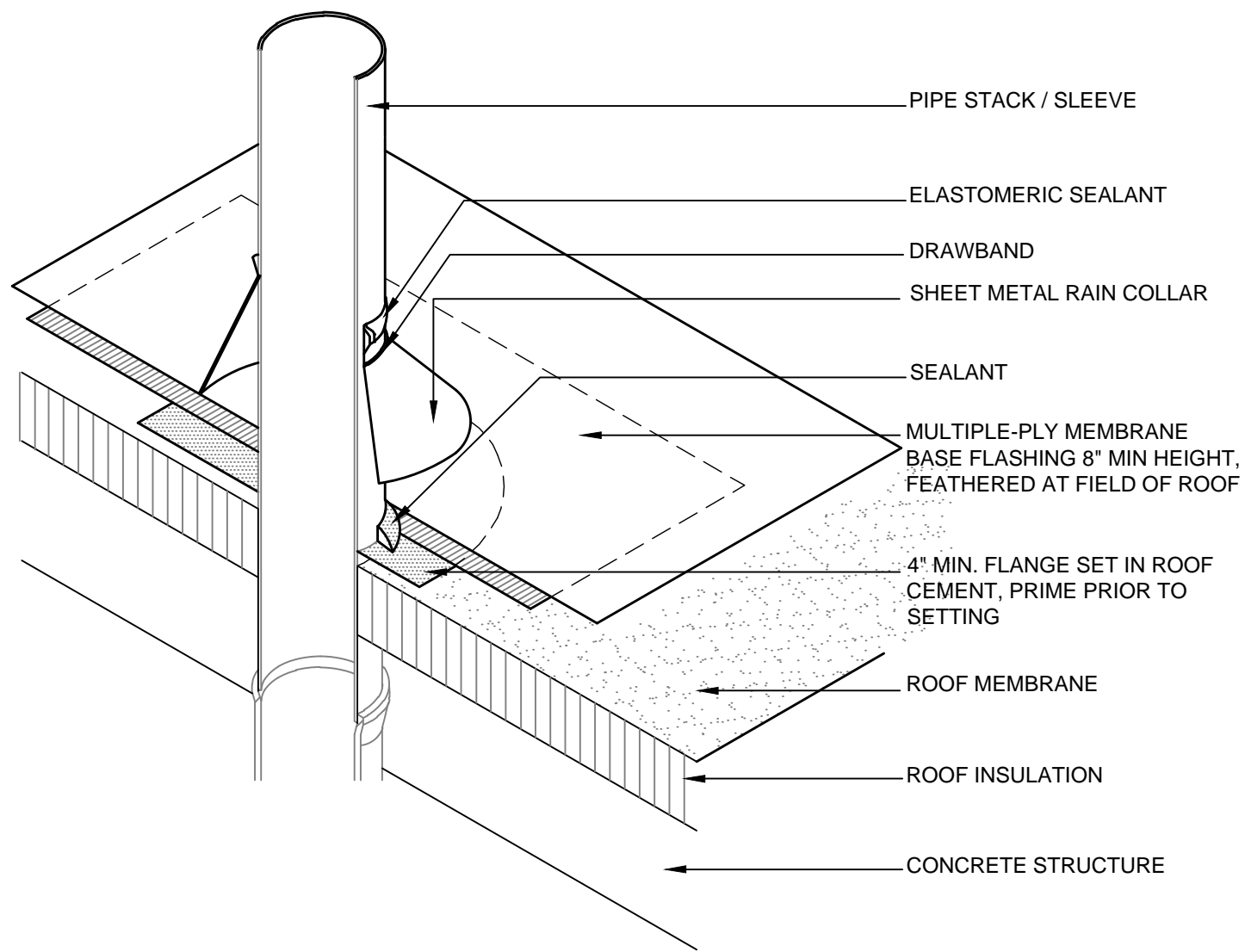
1/8" = 1'-0"



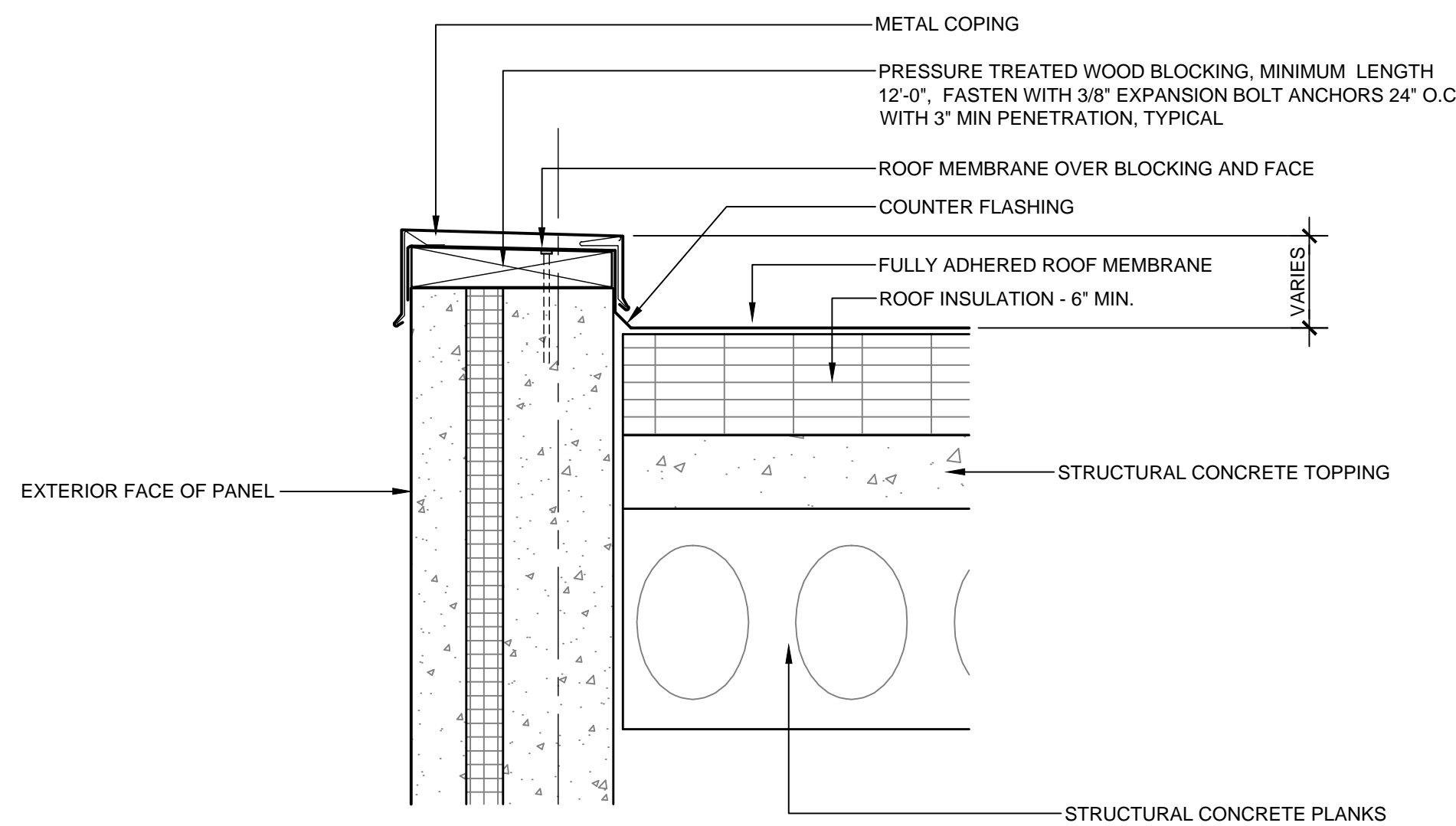
PARTITION TYPES

NOT TO SCALE

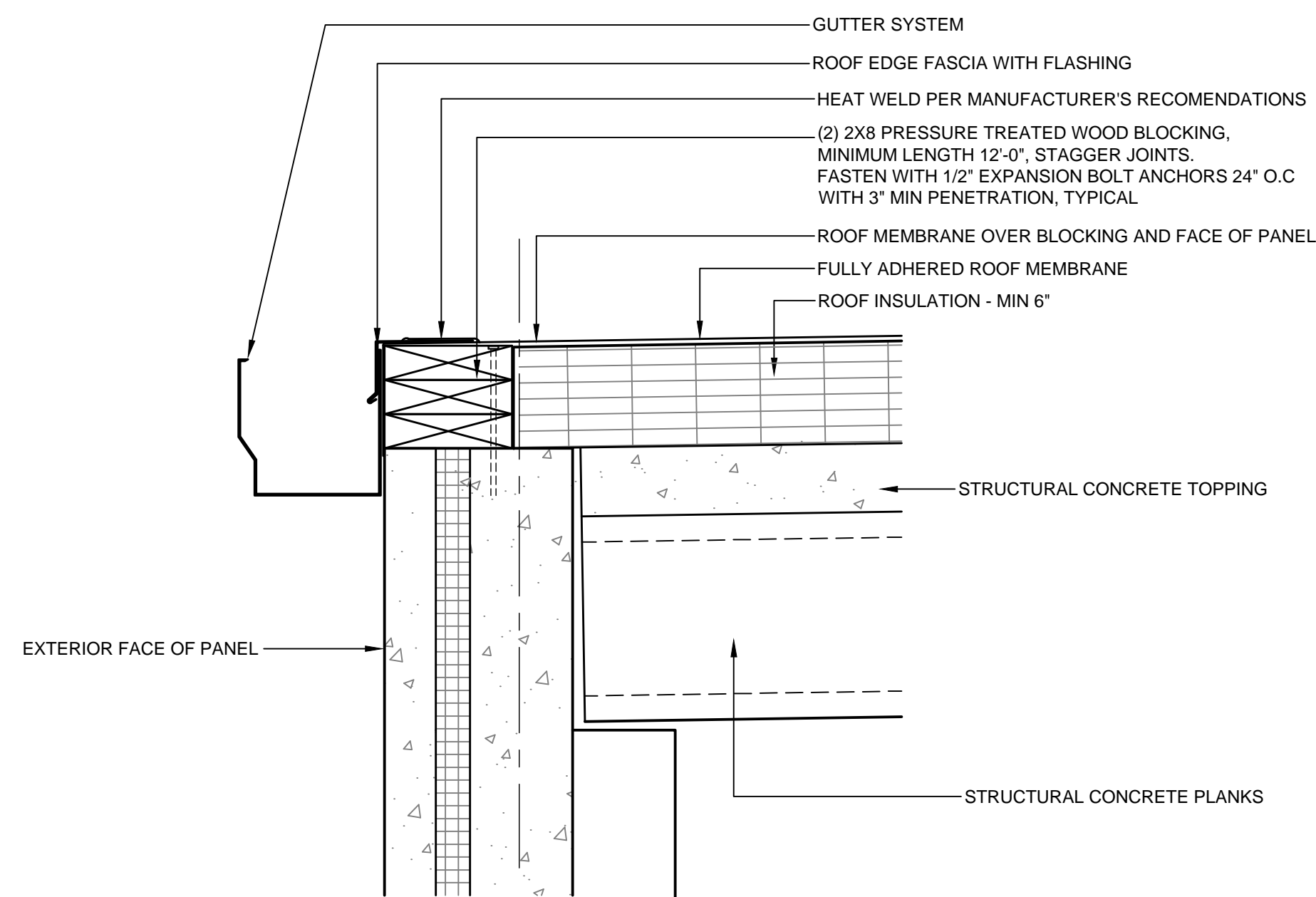




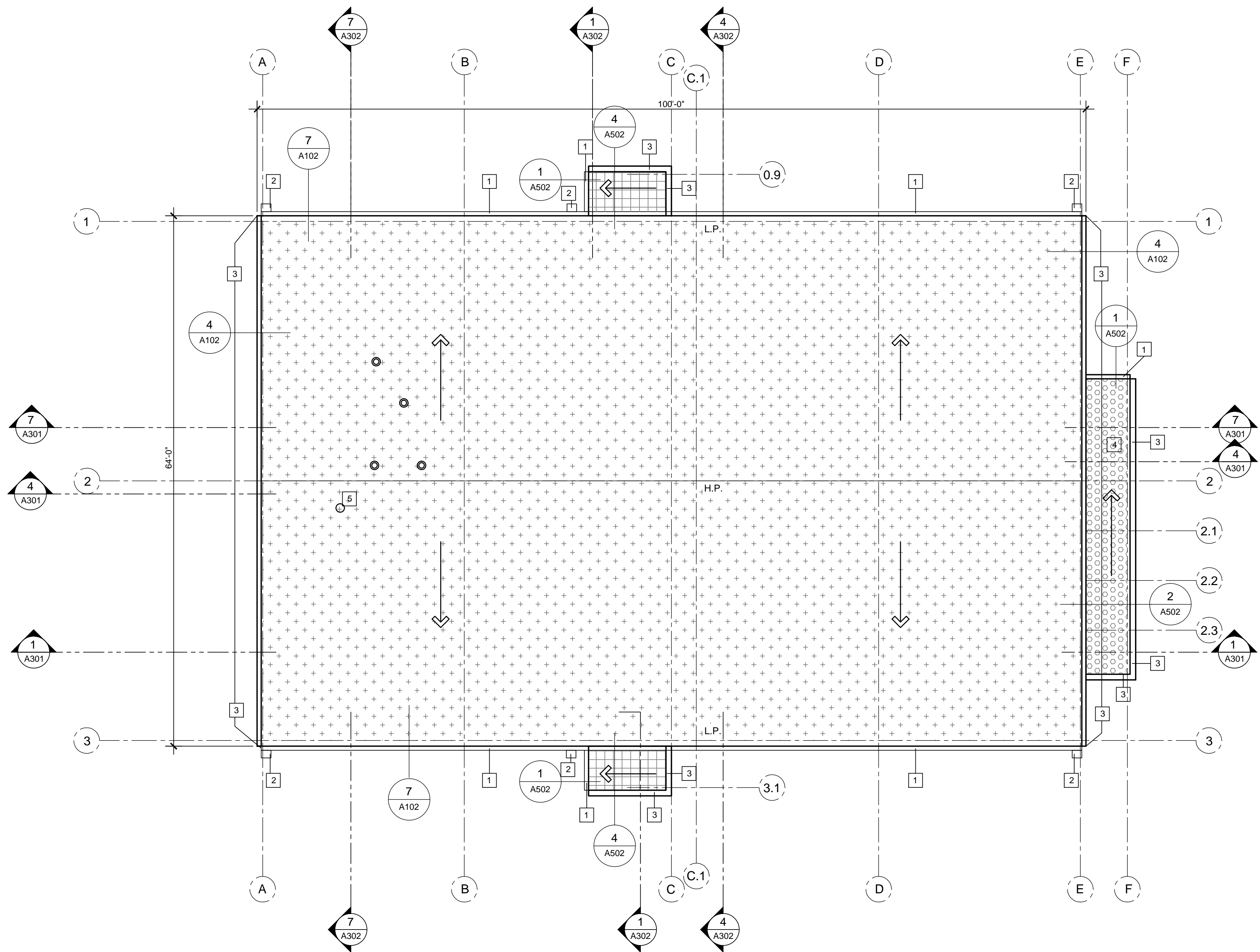
1 ROOF DETAIL - VENT PIPE STACK
1 1/2" = 1'-0"



4 ROOF EDGE DETAIL
1 1/2" = 1'-0"



7 ROOF EDGE DETAIL
1 1/2" = 1'-0"



2 ROOF PLAN
1/8" = 1'-0"

- ROOF KEY**
- L.P. LOW POINT
 - H.P. HIGH POINT
 - ↑ DIRECTION OF SLOPE
 - VENT - REFER TO DETAIL 1 / A102. LOCATIONS PER PLUMBING DRAWINGS (P101)
 - Grid pattern: TAPERED ROOF INSULATION AT 1/8" PER FOOT MIN. 1" THICKNESS
 - Circle pattern: ROOF INSULATION MIN. 1" THICKNESS
 - Plus pattern: ROOF INSULATION OVER SLOPED STRUCTURE MIN. 6" THICKNESS

- GENERAL ROOF PLAN NOTES:**
- SEE PLUMBING DRAWINGS FOR ROOF DRAINS AND VENTS.
 - ALL ROOF PENETRATIONS TO BE WITH CONCRETE STRUCTURAL SYSTEM MANUFACTURER
 - REFER TO BUILDING ELEVATIONS FOR ADDITION CANOPY DETAILS

- SPECIFIC ROOF PLAN NOTES:**
- 1 GUTTER SYSTEM WITH ROOF EDGE FLASHING
 - 2 DOWNSPOUT LOCATION
 - 3 METAL COPING
 - 4 SLOPED CAST CONCRETE TOP OF CANOPY
 - 5 FURNISH AND INSTALL 2" DIA PVC CONDUIT THROUGH CONCRETE STRUCTURE AND ROOFING SYSTEM TO ACCOMMODATE FUTURE CELLULAR AND RADIO ANTENNA CABLES. EXTEND 18" ABOVE FINISHED ROOF WITH GOOSENECK AND REMOVABLE CAP. EXTEND 12" BELOW ROOF DECK STRUCTURE. COORDINATE FINAL LOCATION AND DETAILS WITH CITY IT DEPT PRIOR TO INSTALLATION. COORDINATE LOCATION WITH ROOF PLANK MANUFACTURE. INSTALL PER DETAIL 1 / A102

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ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT

SHEET NAME

ROOF PLAN



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A102



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A111

CEILING SYMBOL LEGEND

- FLUSH GRID MOUNTED FLUORESCENT 2'X4' FIXTURE, SEE ELECTRICAL.
- PENDANT MOUNTED FLUORESCENT STRIP-INDUSTRIAL FIXTURE, SEE ELECTRICAL.
- WALL MOUNTED FIXTURE, SEE ELECTRICAL.
- WALL MOUNTED FIXTURE, SEE ELECTRICAL.

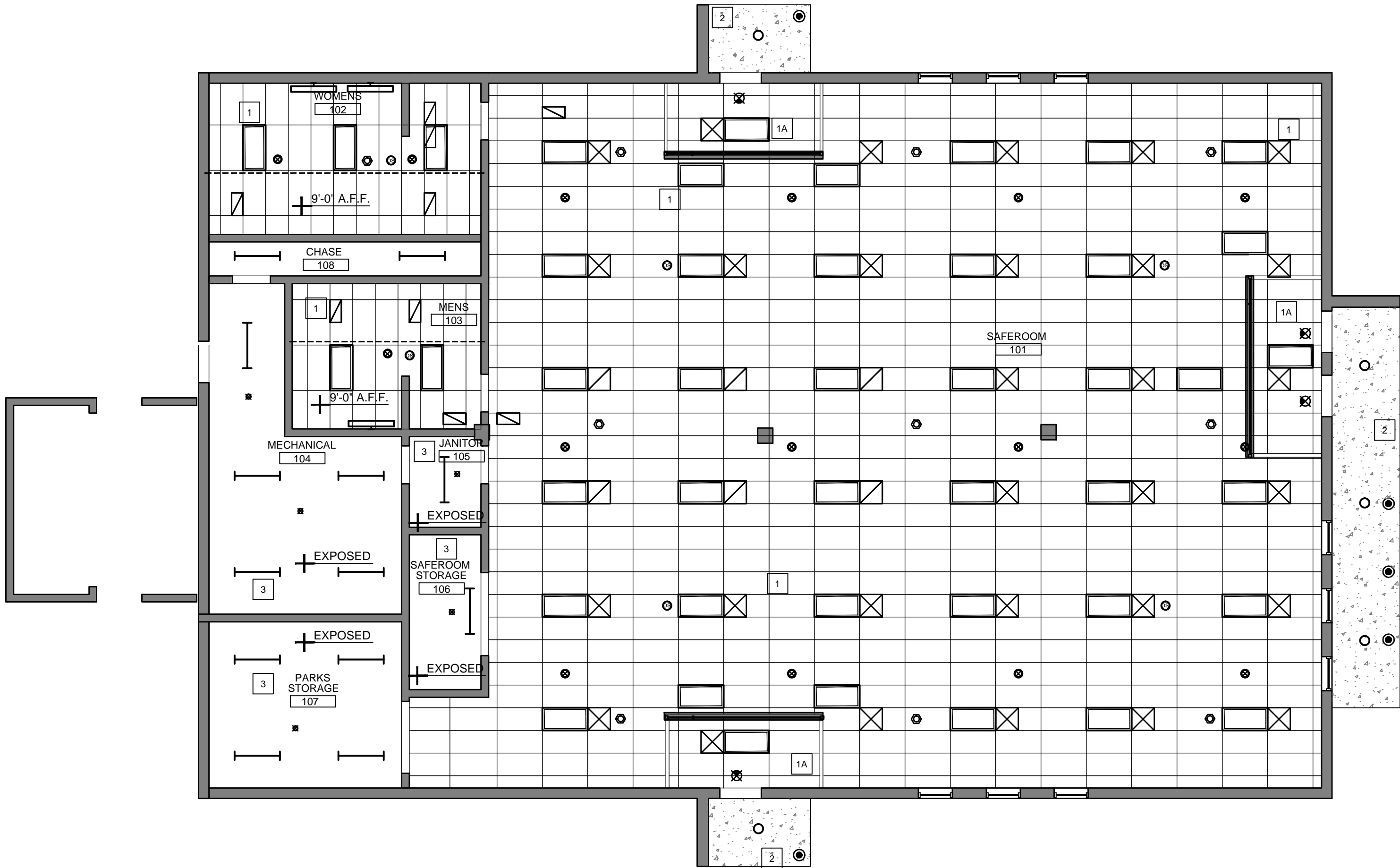
- SUPPLY DIFFUSER - LAY IN, REFER TO MECHANICAL
- RETURN GRILLE, REFER TO MECHANICAL
- OCCUPANCY SENSOR - CEILING MOUNTED REFER TO ELECTRICAL
- EXIT LIGHT, REFER TO ELECTRICAL
- FIRE ALARM SPEAKER, REFER TO ELECTRICAL
- SPRINKLER HEAD, REFER TO FIRE PROTECTION

GENERAL CEILING PLAN NOTES

- EQUIPMENT, ELECTRICAL FIXTURES AND OTHER DEVICES DEPICTED IN CEILING PLAN LAYOUT ARE FOR COORDINATION AND REFERENCE. REFER TO INDIVIDUAL DISCIPLINES FOR REQUIREMENTS, WIRING, SWITCHING AND OTHER RELATED INFORMATION.
- REFER TO FLOOR PLAN FOR DIMENSIONS AND PARTITION TYPES
- REFER TO ROOM FINISH SCHEDULE FOR CEILING FINISH SELECTIONS.
- CEILINGS ARE 10'-6" UNLESS NOTED OTHERWISE.
- CENTER SPRINKLER HEAD AND OTHER DEVICES IN CEILING TILE

CEILING PLAN LEGEND

- 1 2' x 4' APC 1 CEILING SYSTEM
- 1A 2' x 4' APC 1 WITH HOLD DOWN CLIPS CEILING SYSTEM
- 2 PAINTED CONCRETE CANOPY
- 3 PAINTED EXPOSED STRUCTURE
- STEEL BEAM ABOVE TOILET PARTITION SUPPORT



1 REFLECTED CEILING PLAN
1/8" = 1'-0"

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

BUILDING SECTIONS



CITY OF MADISON
Contract: 7343

REVISION DATE

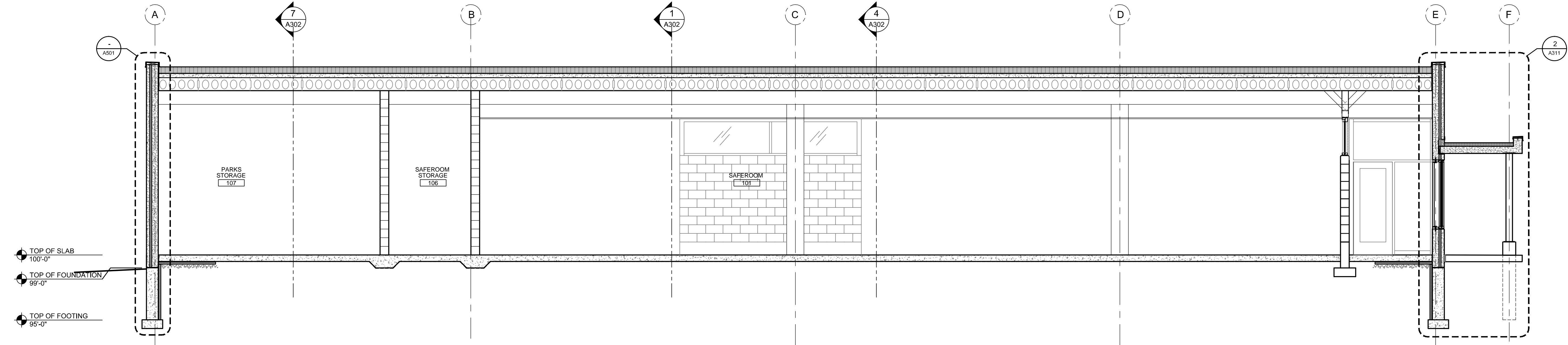
PROJECT NO 1307

SET TYPE BID DOCUMENTS

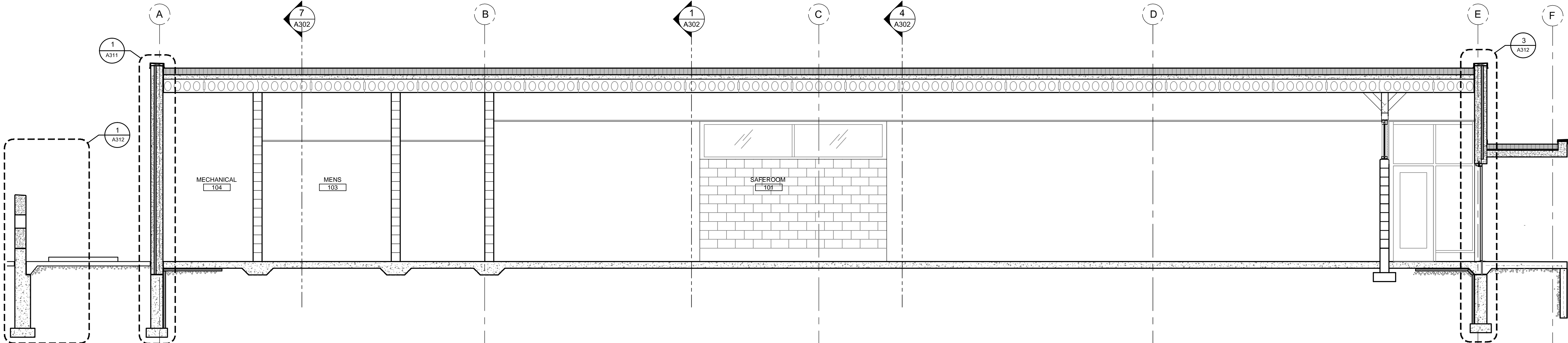
DATE 05-30-2014

SHEET NUMBER

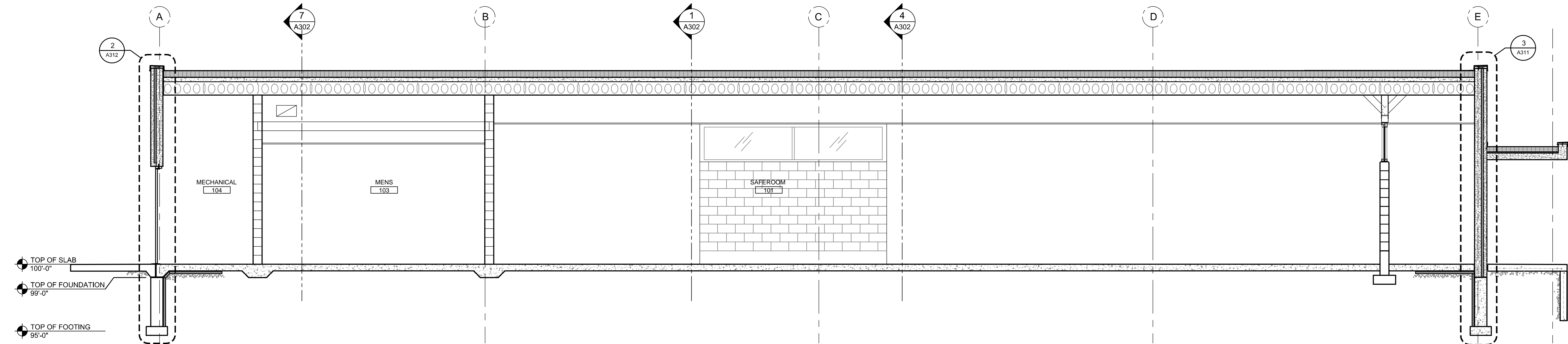
A301



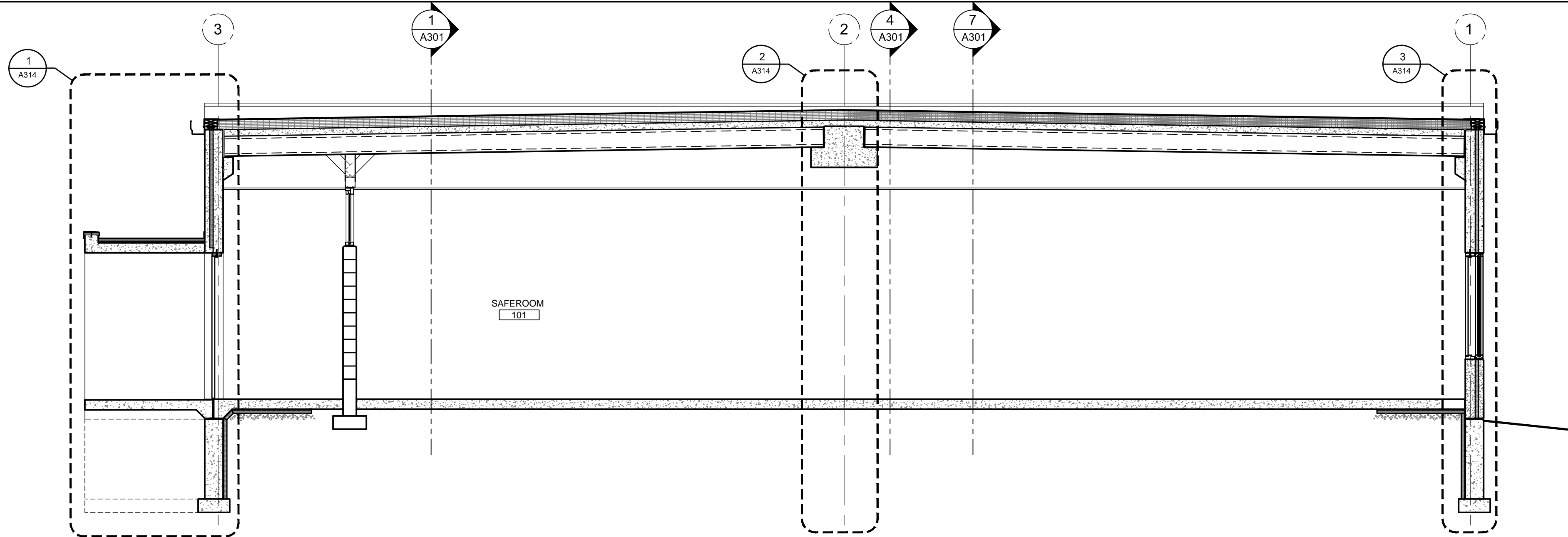
1 BUILDING SECTION
1/4"= 1'-0"



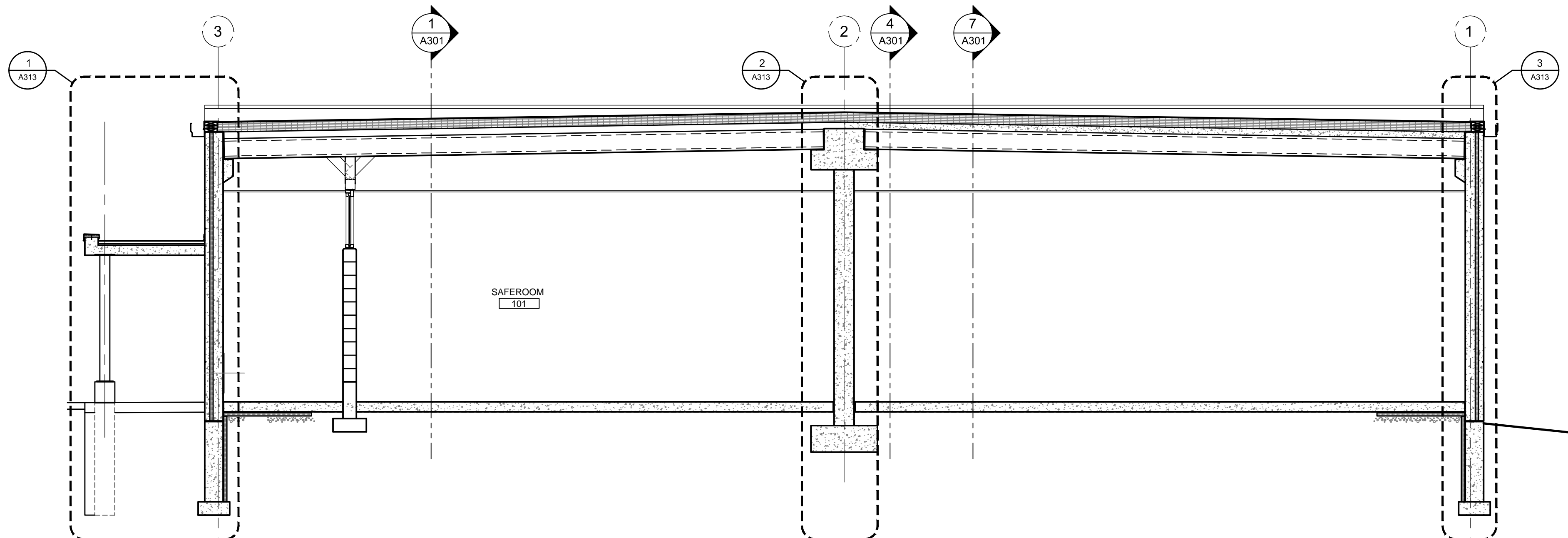
4 BUILDING SECTION
1/4"= 1'-0"



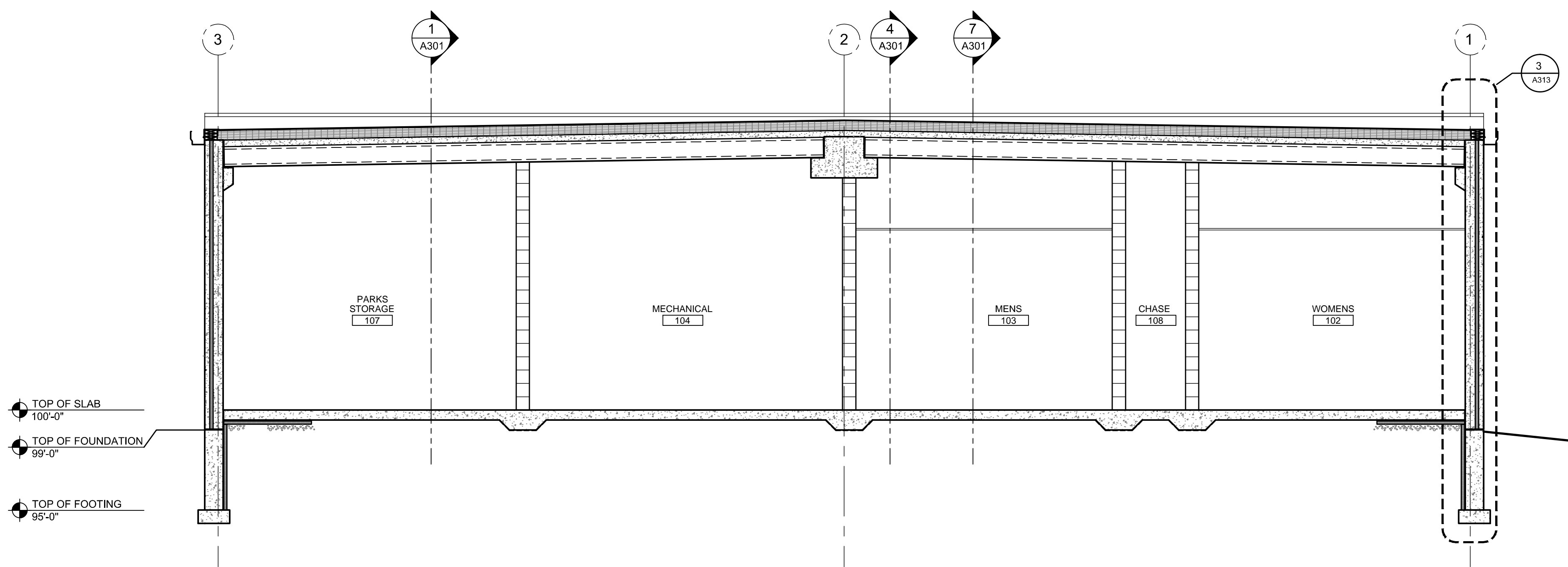
7 BUILDING SECTION
1/4"= 1'-0"



1 BUILDING SECTION
1/4"= 1'-0"



4 BUILDING SECTION
1/4"= 1'-0"



7 BUILDING SECTION
1/4"= 1'-0"

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM

CITY OF MADISON - CONTRACT NO. 7343

10 MANOR DRIVE

MADISON, WISCONSIN

BUILDING SECTIONS

PROJECT

SHEET NAME



CITY OF MADISON
Contract: 7343

REVISION	DATE
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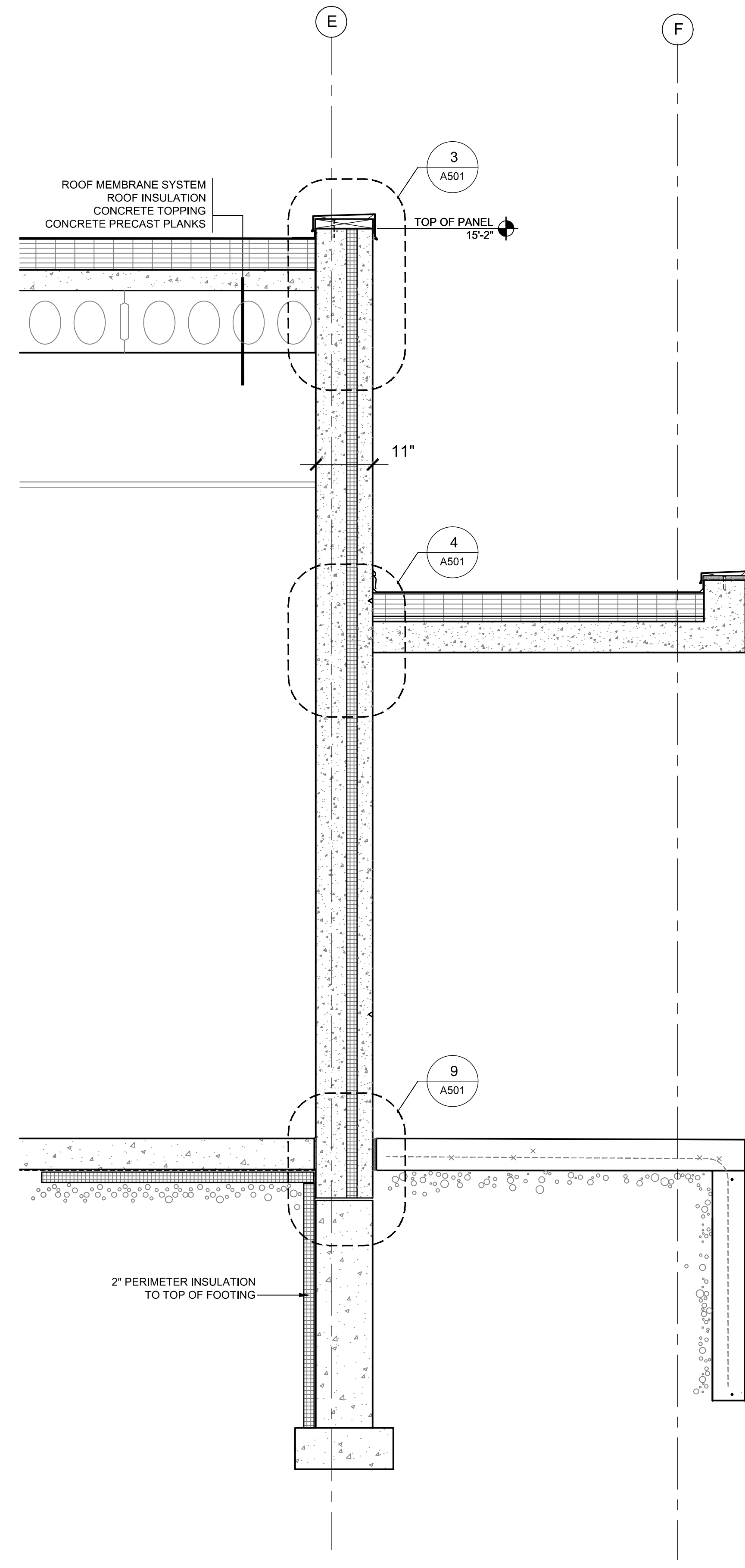
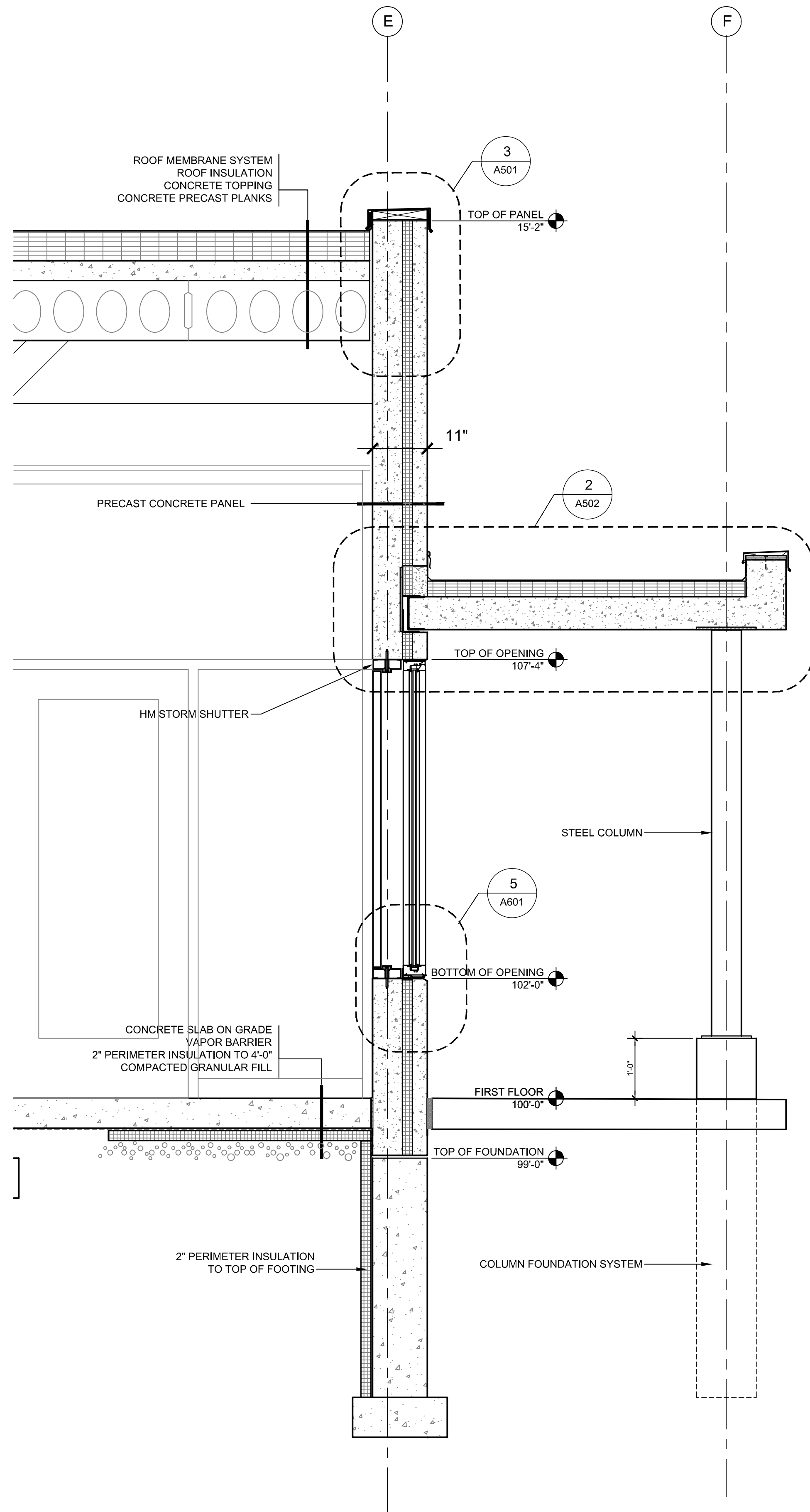
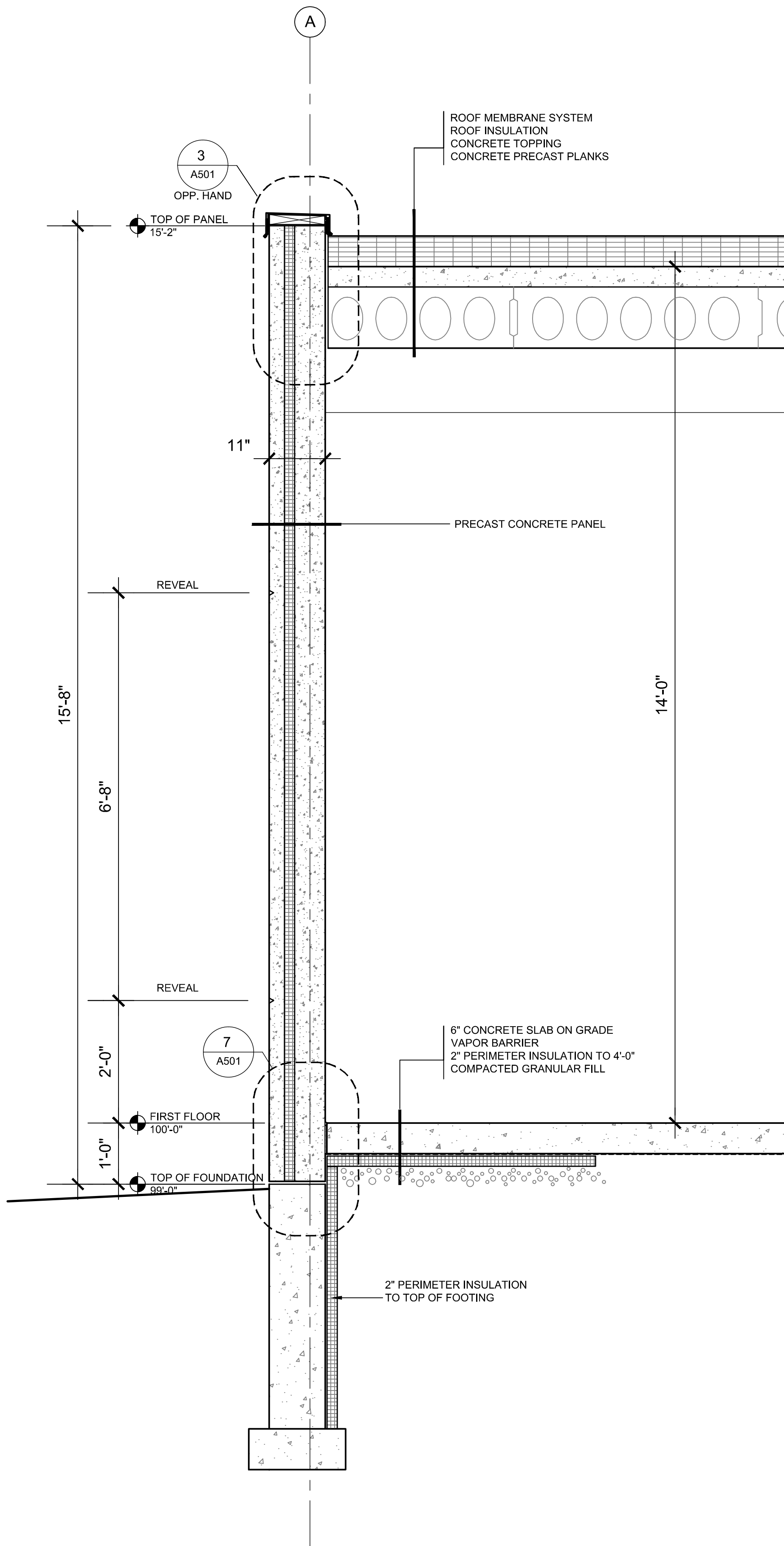
PROJECT NO	1307
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SET TYPE	BID DOCUMENTS
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DATE	05-30-2014
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SHEET NUMBER

A302



REFER TO STRUCTURAL FOR CONNECTION
AND OTHER STRUCTURAL REQUIREMENTS.
NOT DEPICTED IN THESE DRAWINGS

1 WALL SECTION
3/4"= 1'-0"

2 WALL SECTION
3/4"= 1'-0"

3 WALL SECTION
3/4"= 1'-0"

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

WALL SECTIONS

PROJECT

SHEET NAME



CITY OF MADISON
Contract: 7343

REVISION	DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A311



CITY OF MADISON
Contract: 7343

REVISION DATE

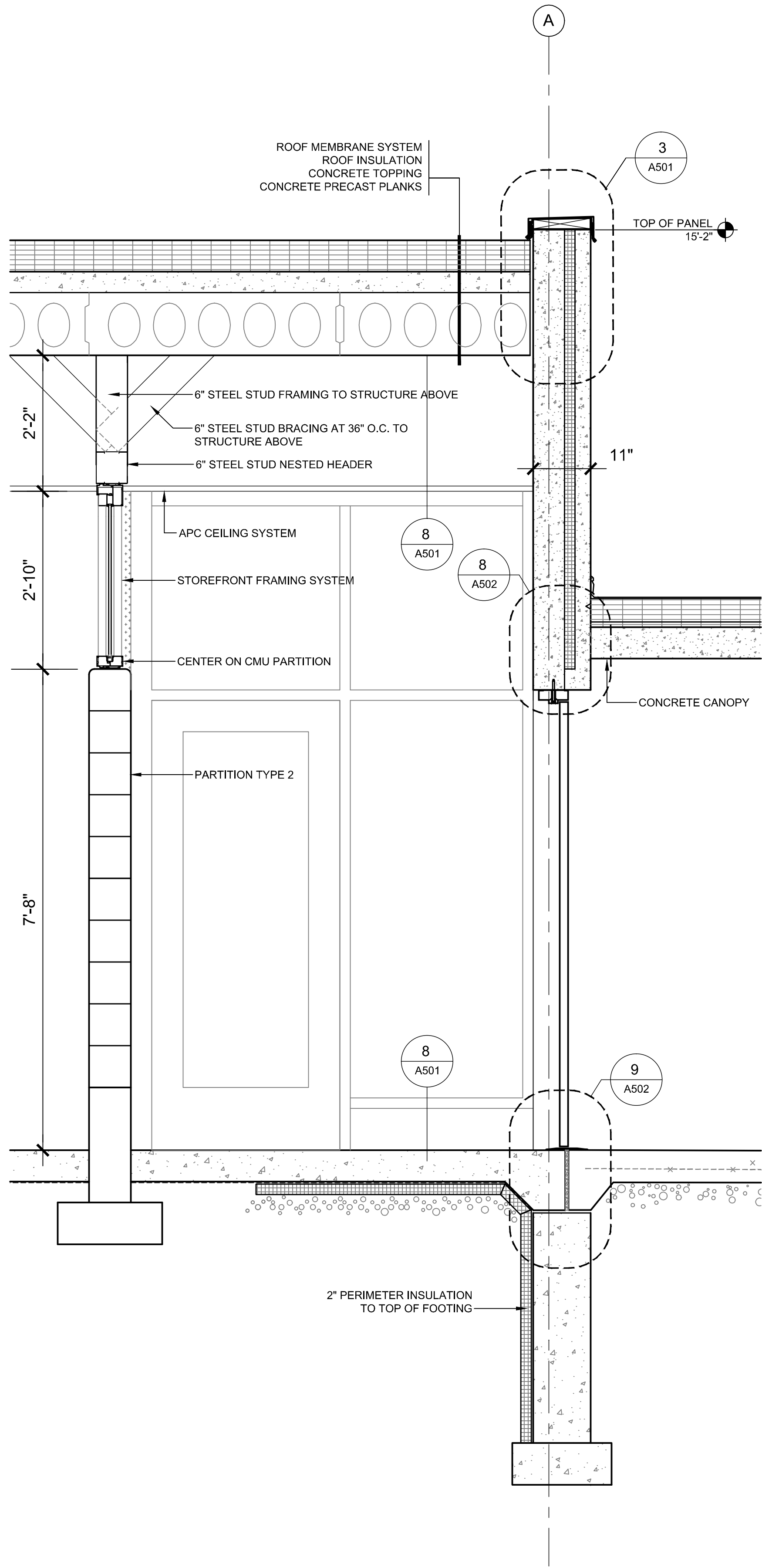
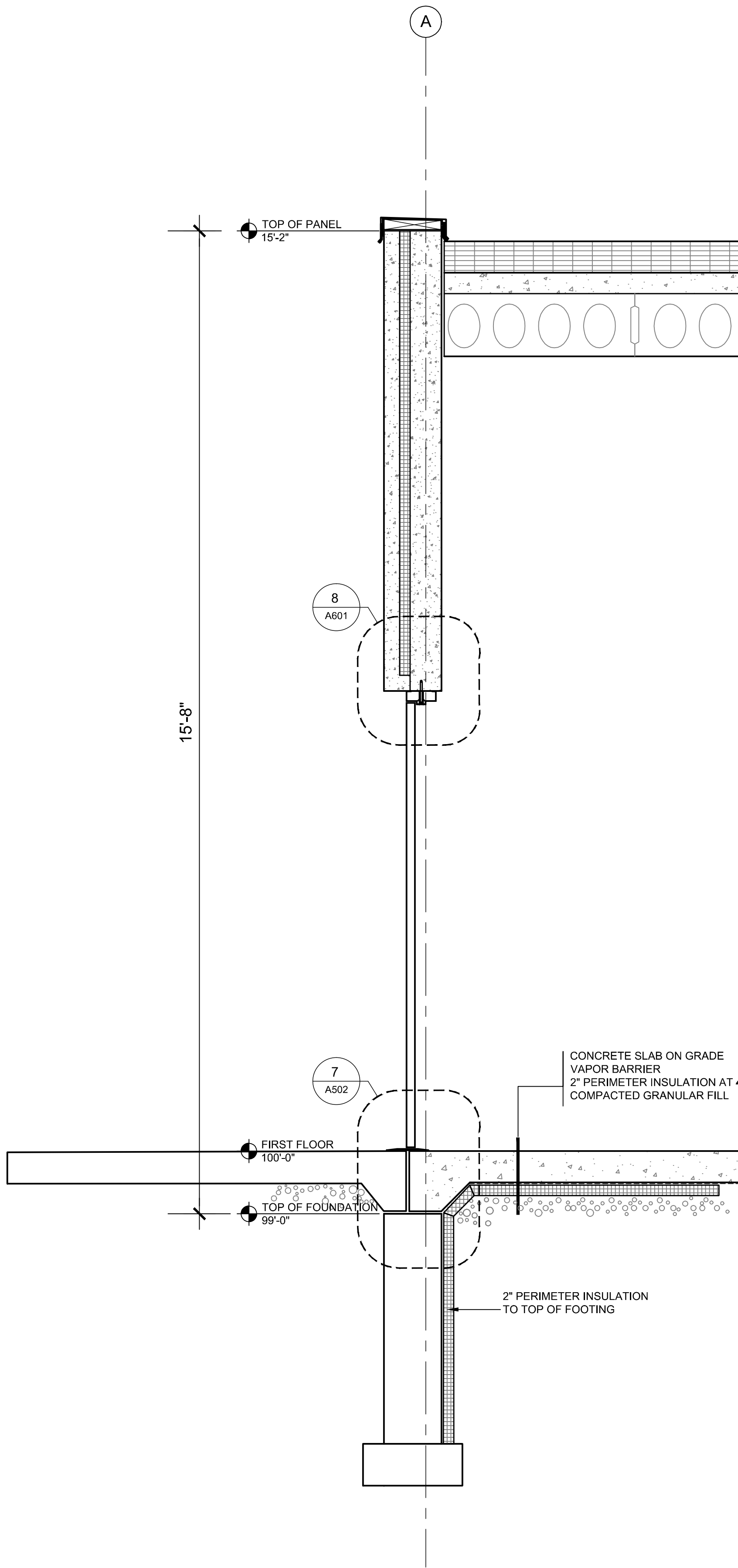
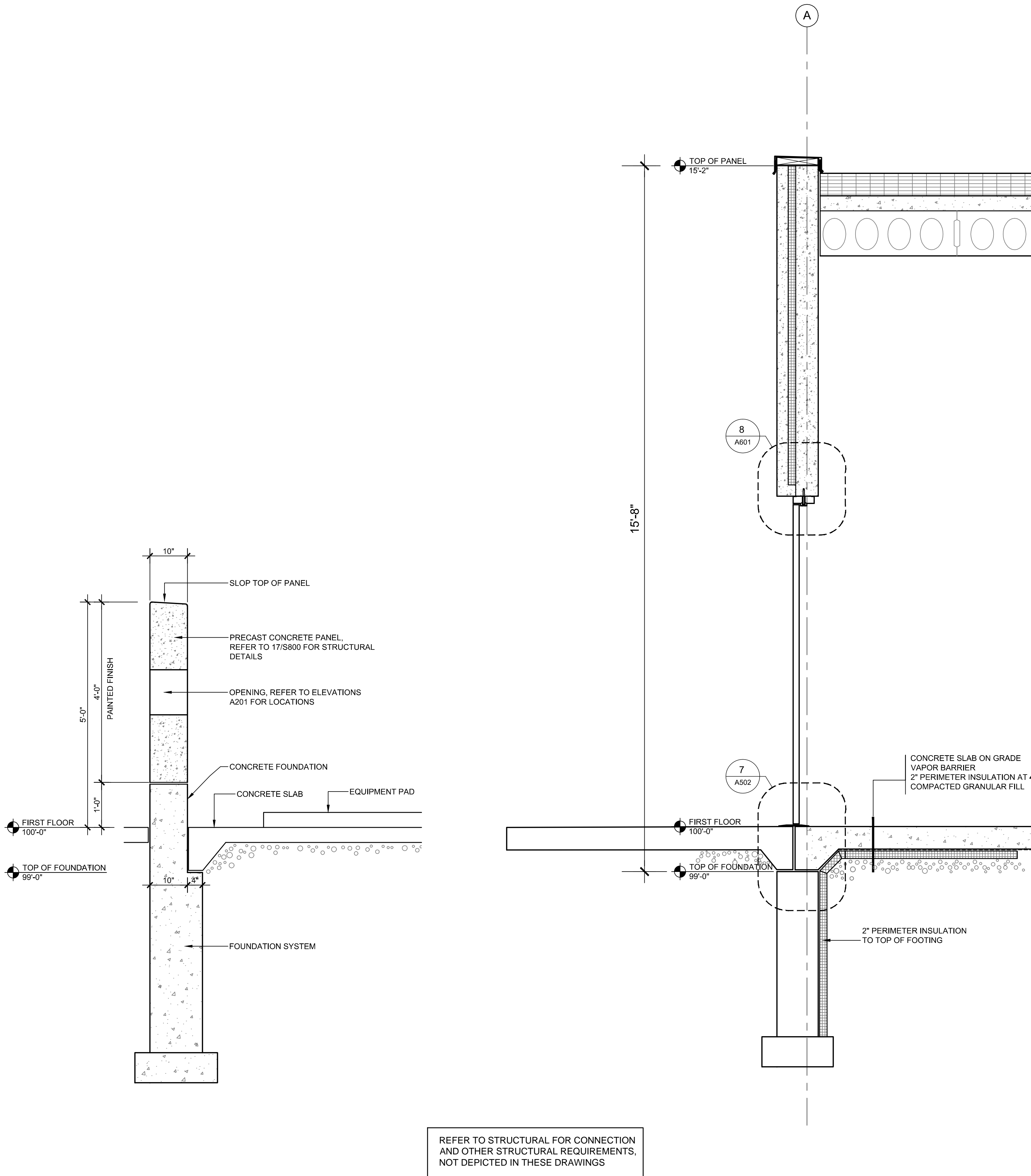
PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A312



1 WALL SECTION
3/4" = 1'-0"

2 WALL SECTION
3/4" = 1'-0"

3 WALL SECTION
3/4" = 1'-0"

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN



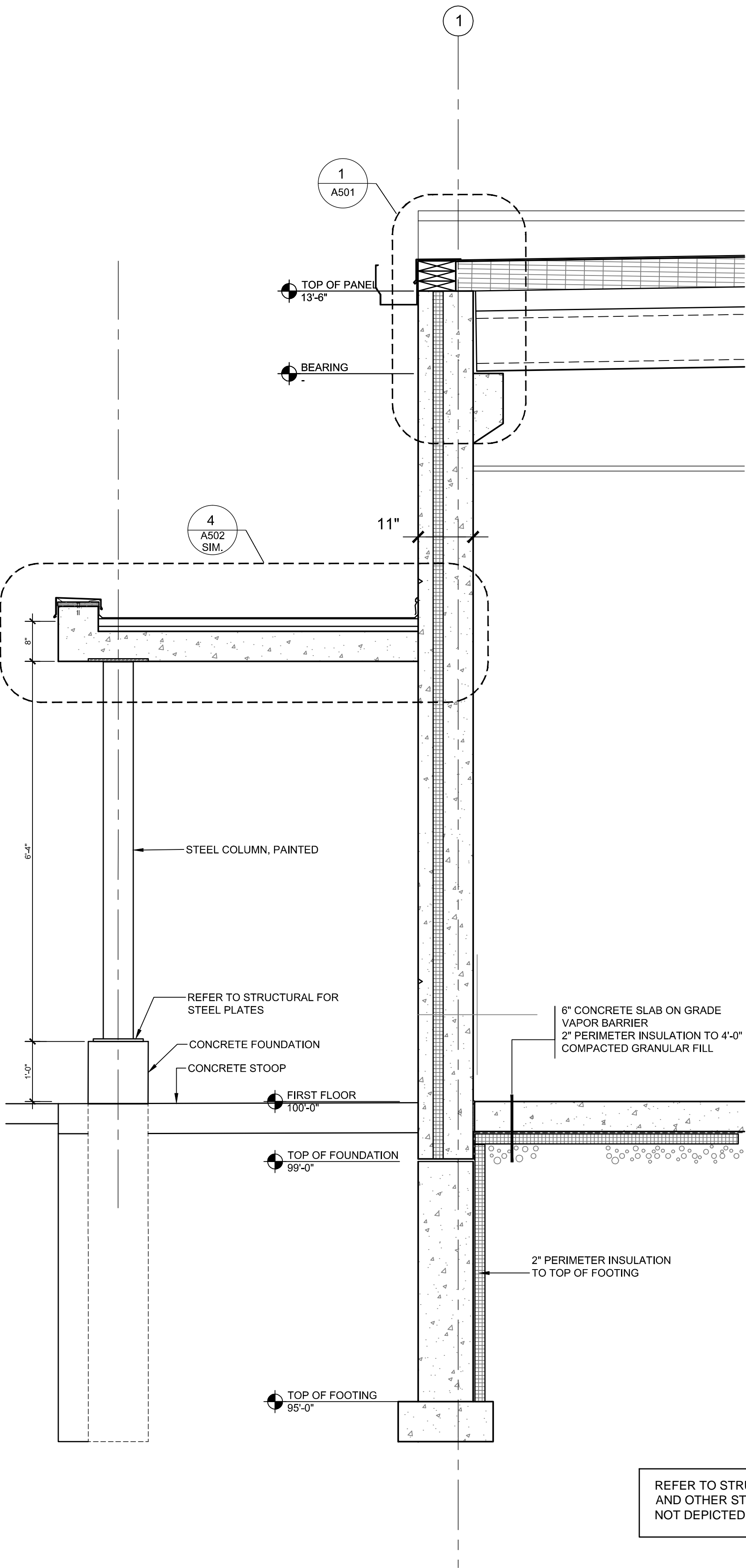
CITY OF MADISON
Contract: 7343

REVISION	DATE

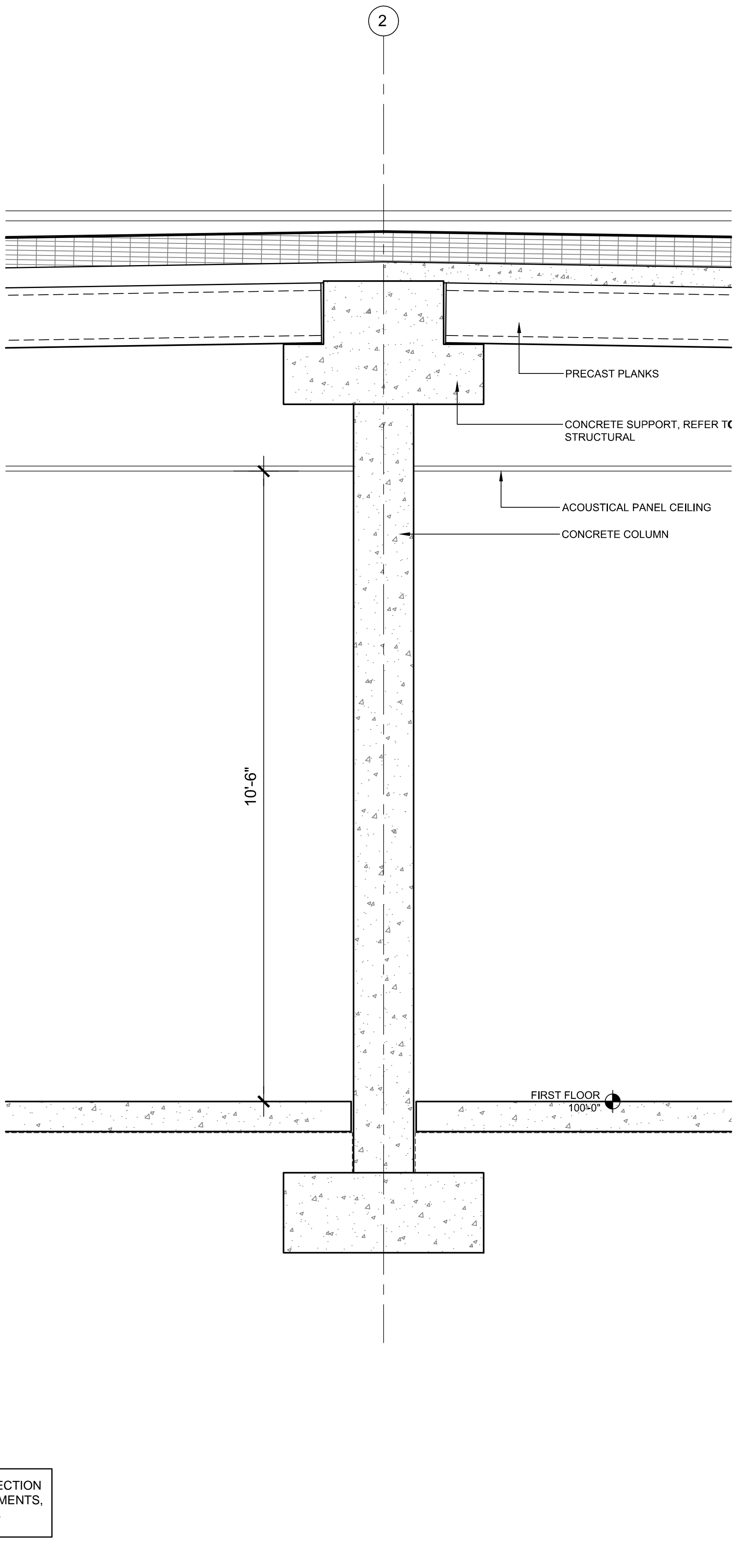
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DATE	05-30-2014

SHEET NUMBER

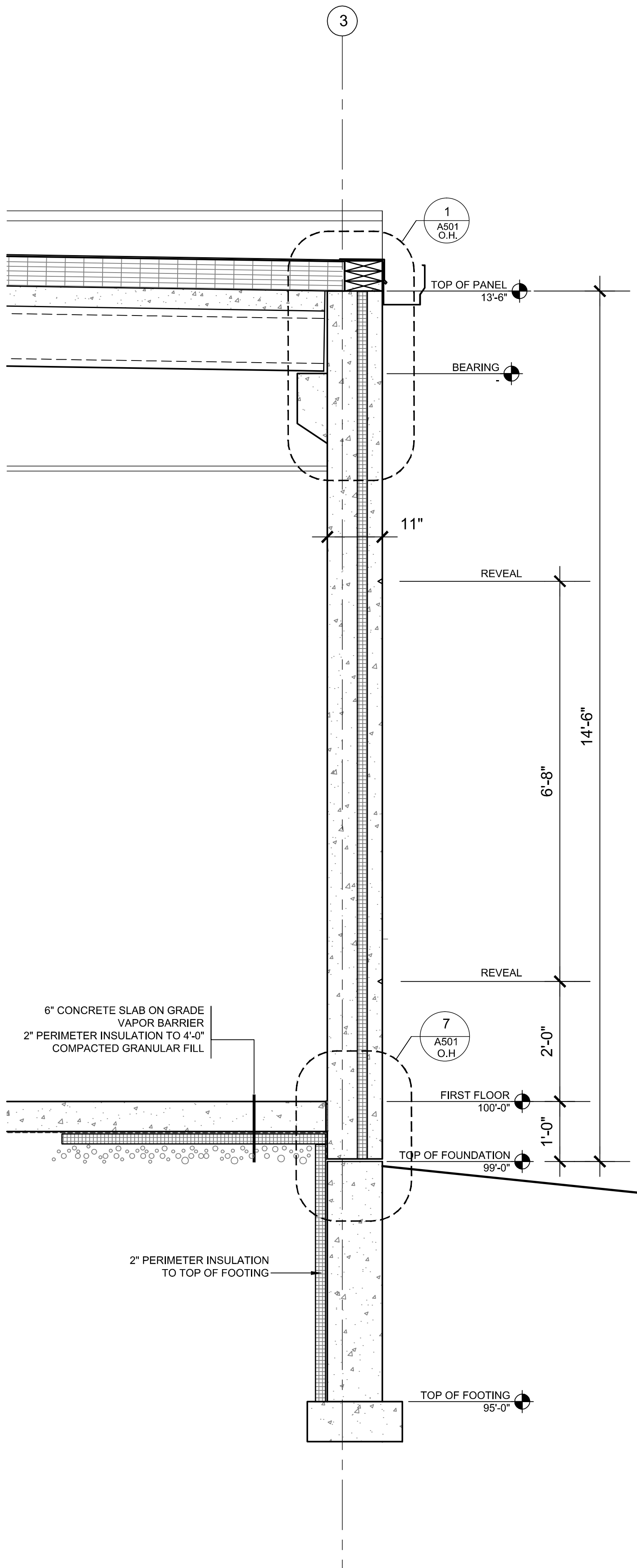
A313



1 WALL SECTION
3/4" = 1'-0"

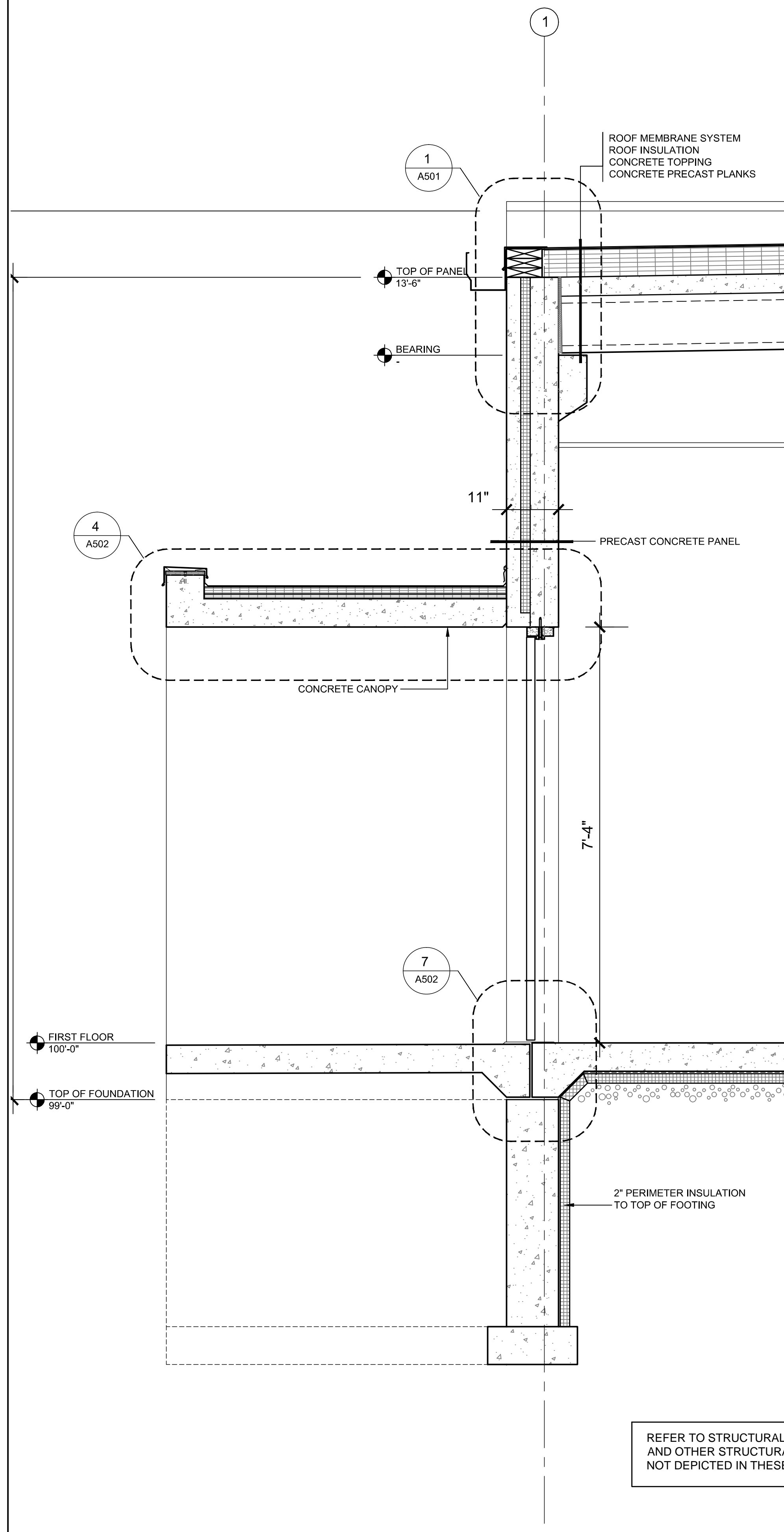


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3/4" = 1'-0"

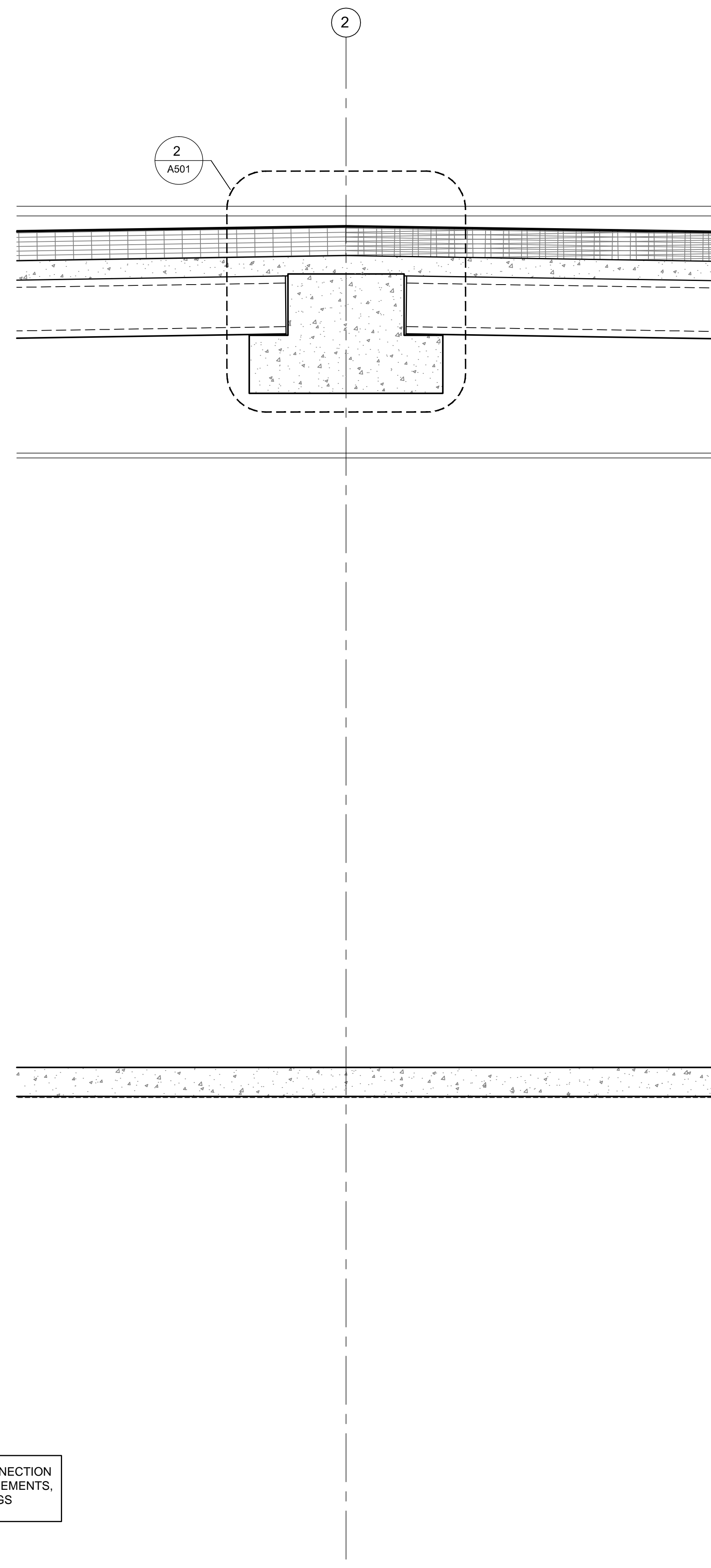


3 WALL SECTION
3/4" = 1'-0"

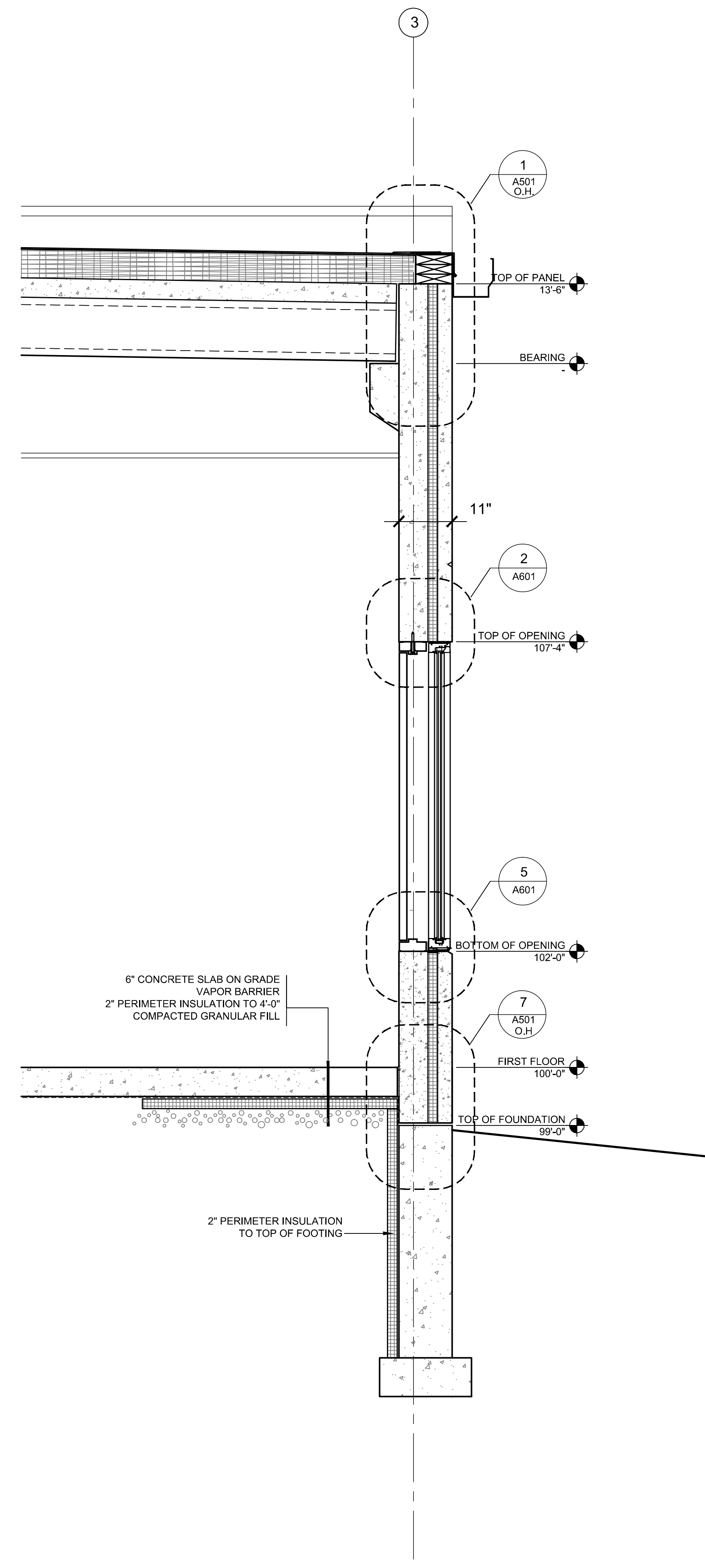
REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	



1 WALL SECTION
3/4" = 1'-0"

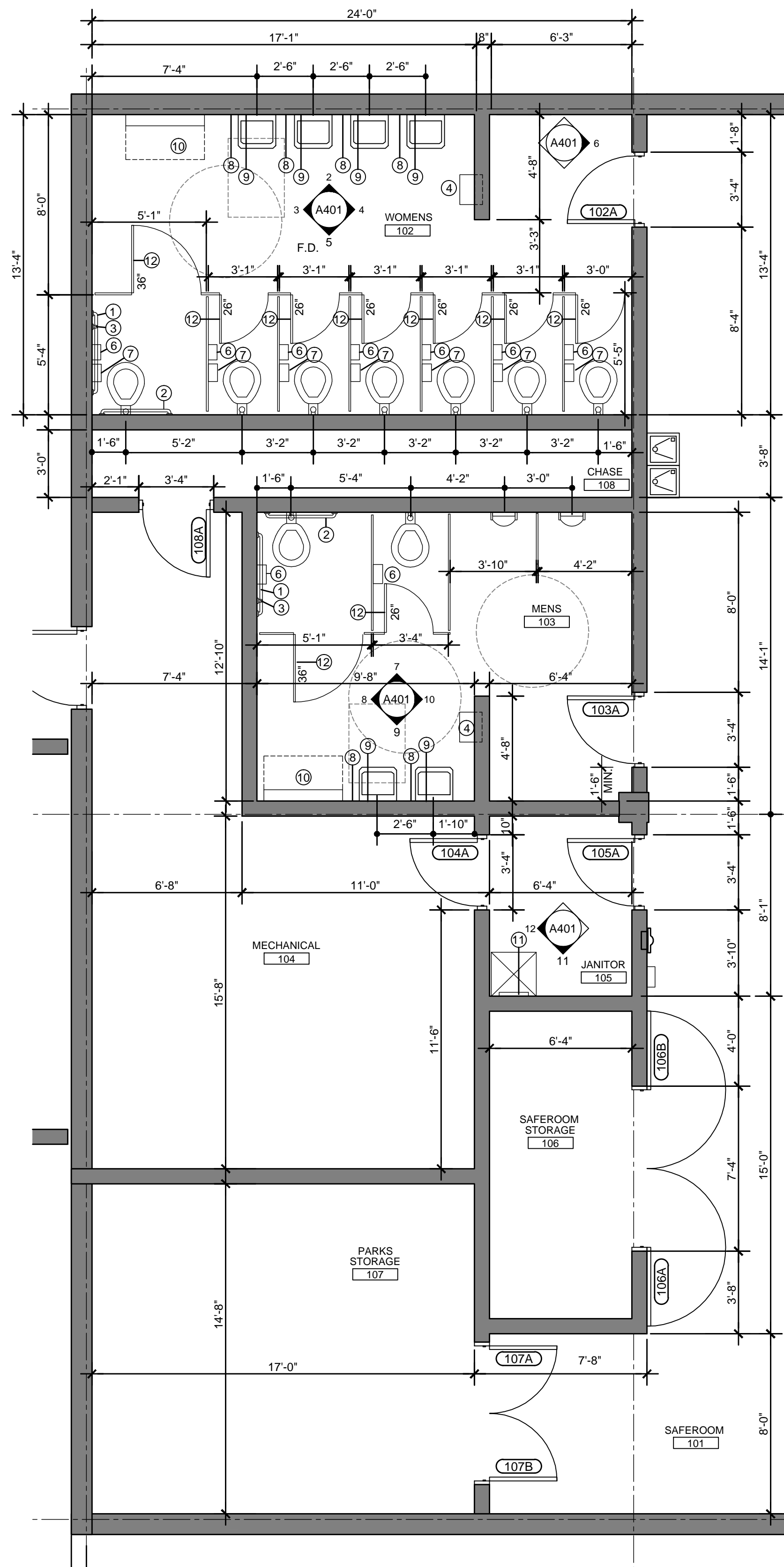


2 WALL SECTION
3/4" = 1'-0"

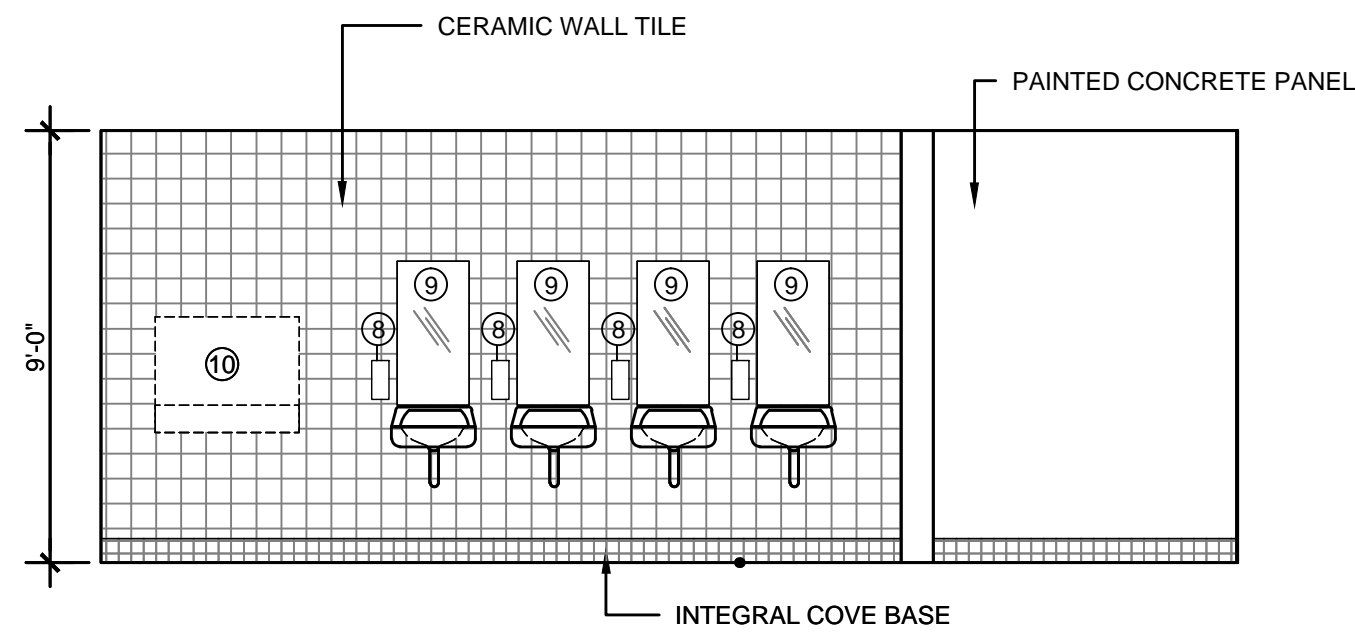


3 WALL SECTION
3/4" = 1'-0"

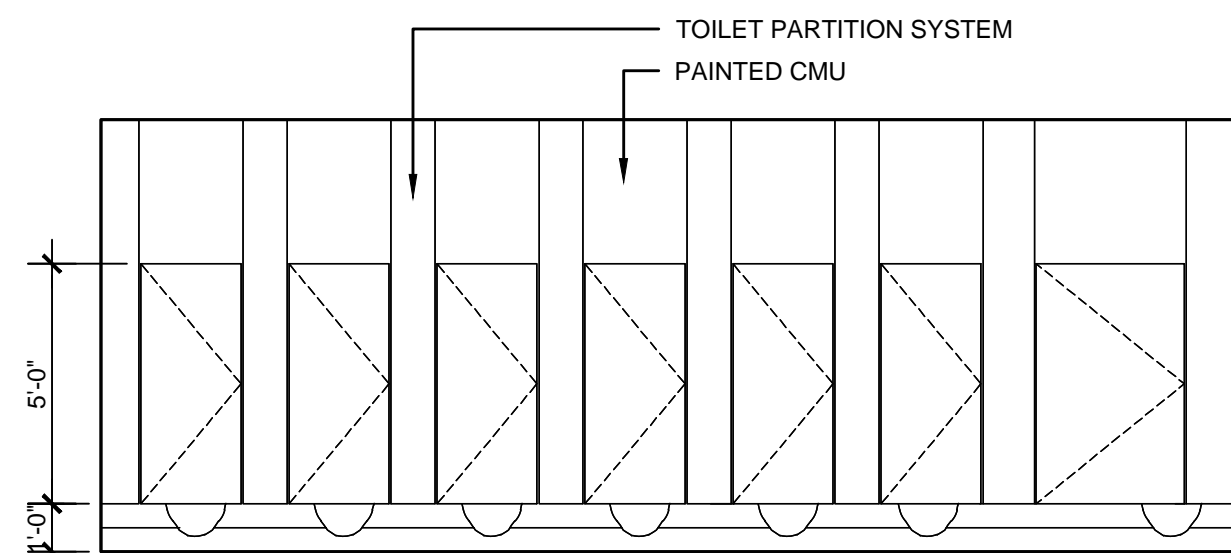
REFER TO STRUCTURAL FOR CONNECTION
AND OTHER STRUCTURAL REQUIREMENTS,
NOT DEPICTED IN THESE DRAWINGS



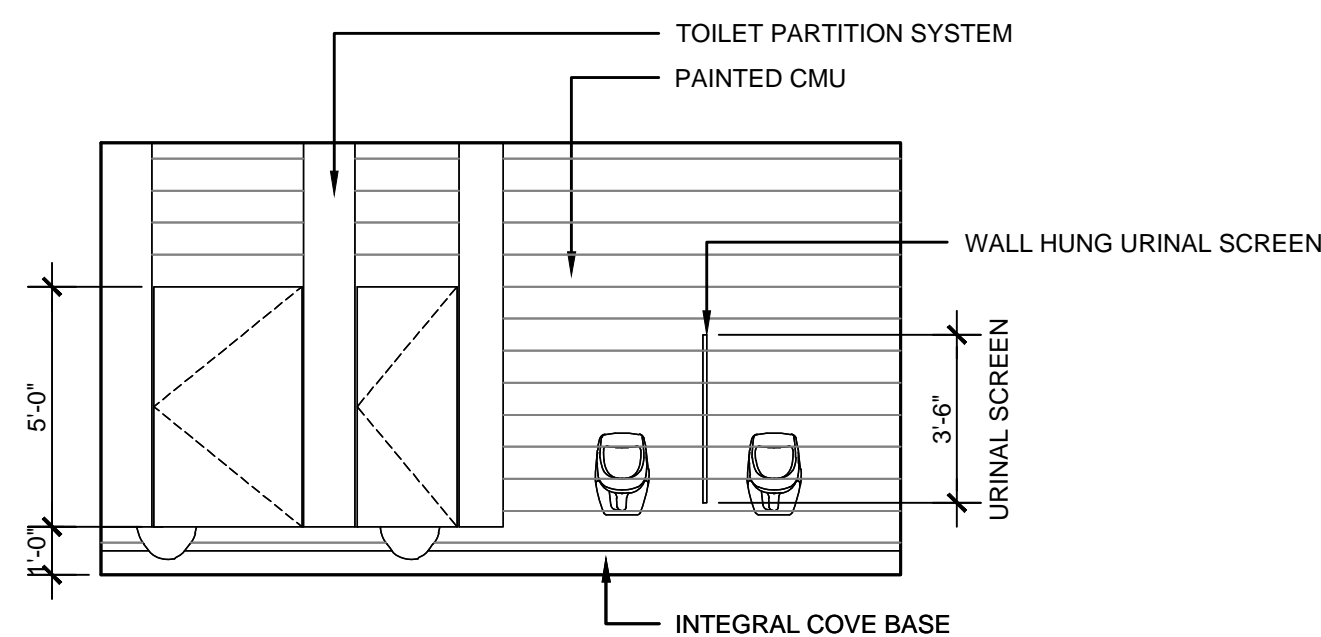
1 ENLARGED PLAN
1/4" = 1'-0"



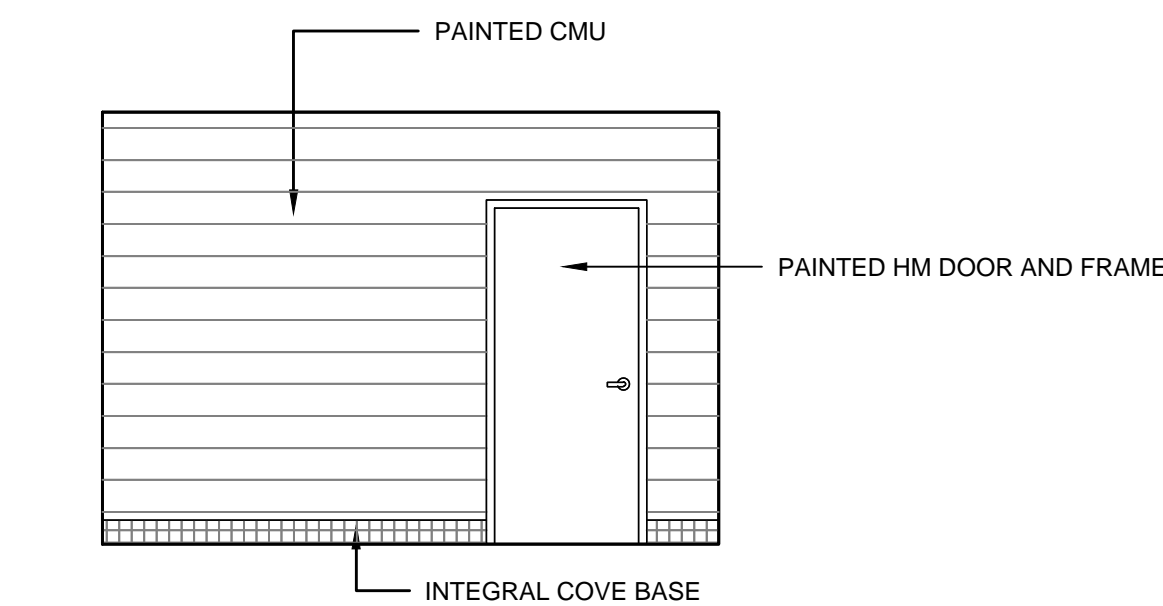
2 WOMEN'S TOILET
1/4" = 1'-0"



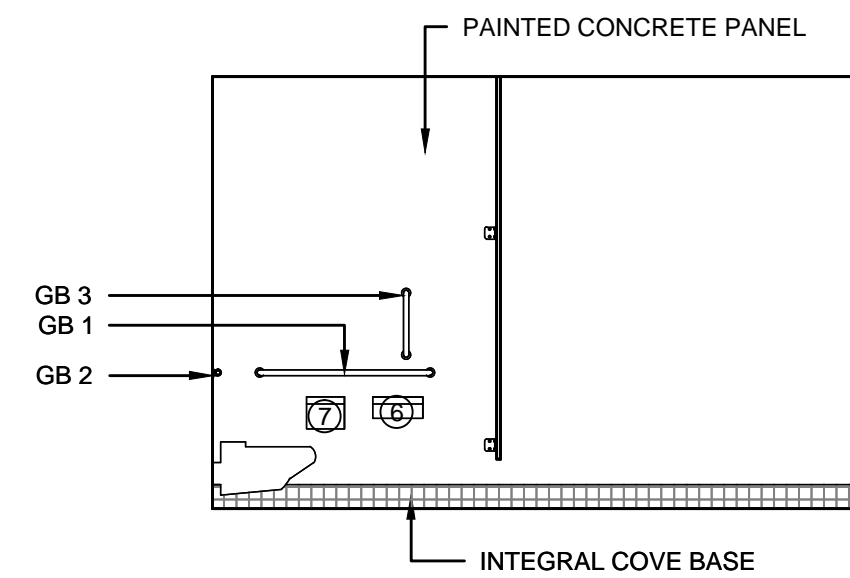
5 WOMEN'S TOILET
1/4" = 1'-0"



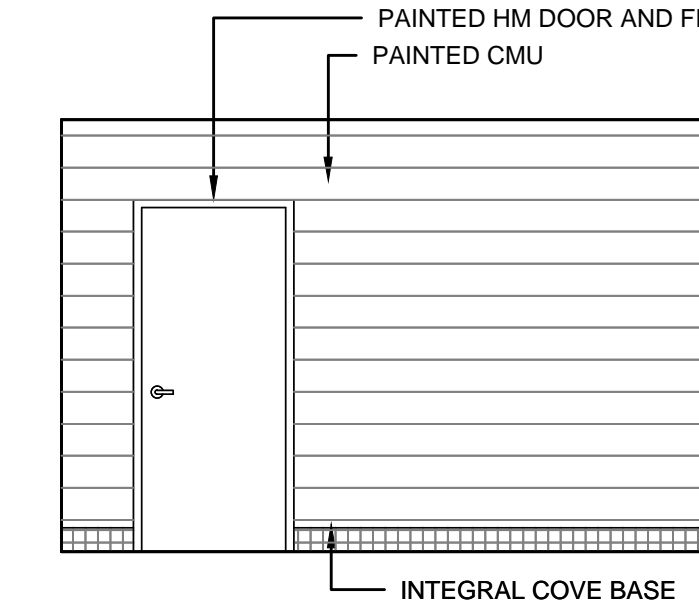
7 MEN'S TOILET
1/4" = 1'-0"



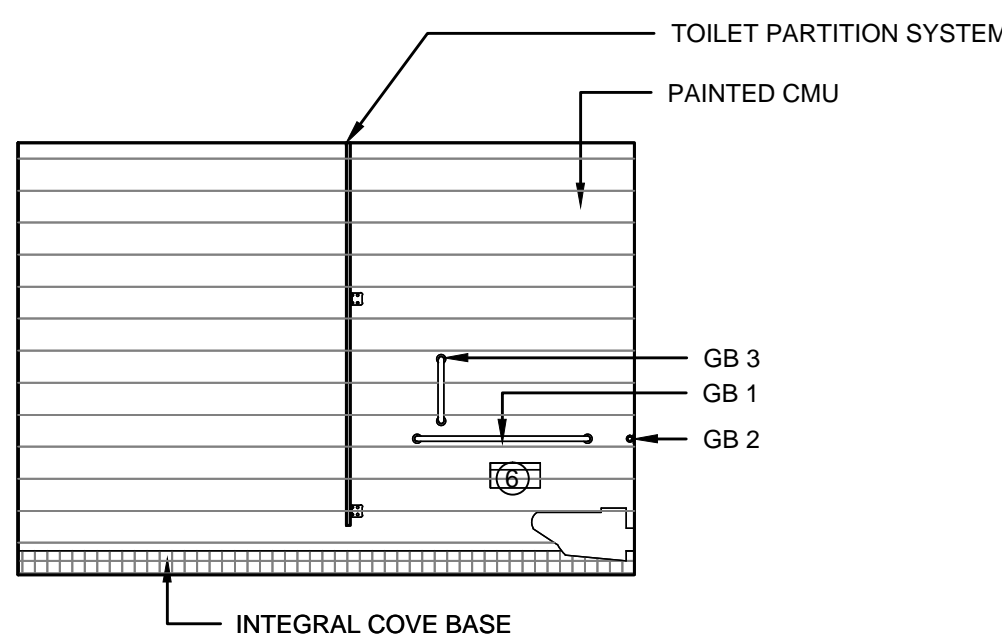
10 MEN'S TOILET
1/4" = 1'-0"



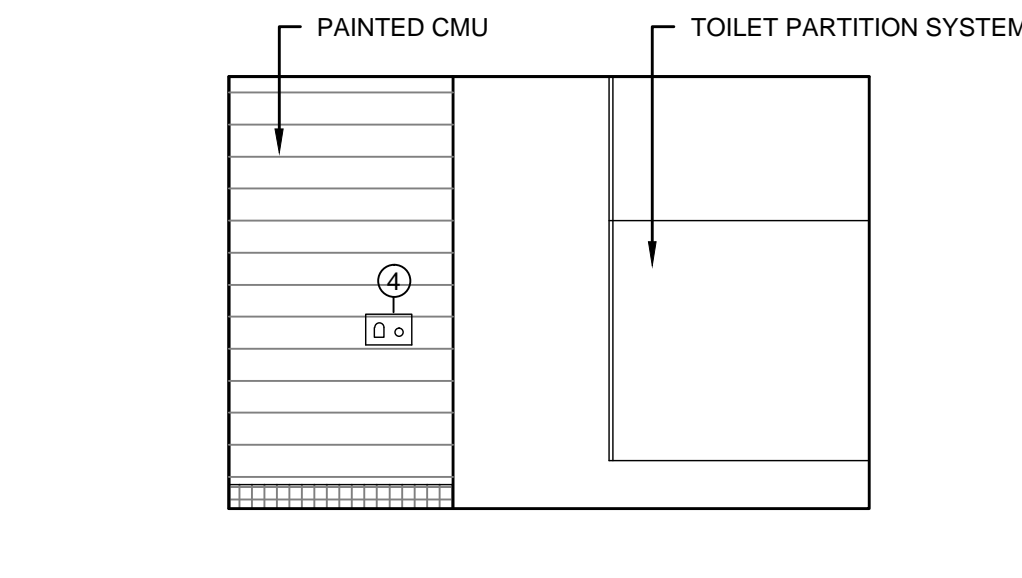
3 WOMEN'S TOILET
1/4" = 1'-0"



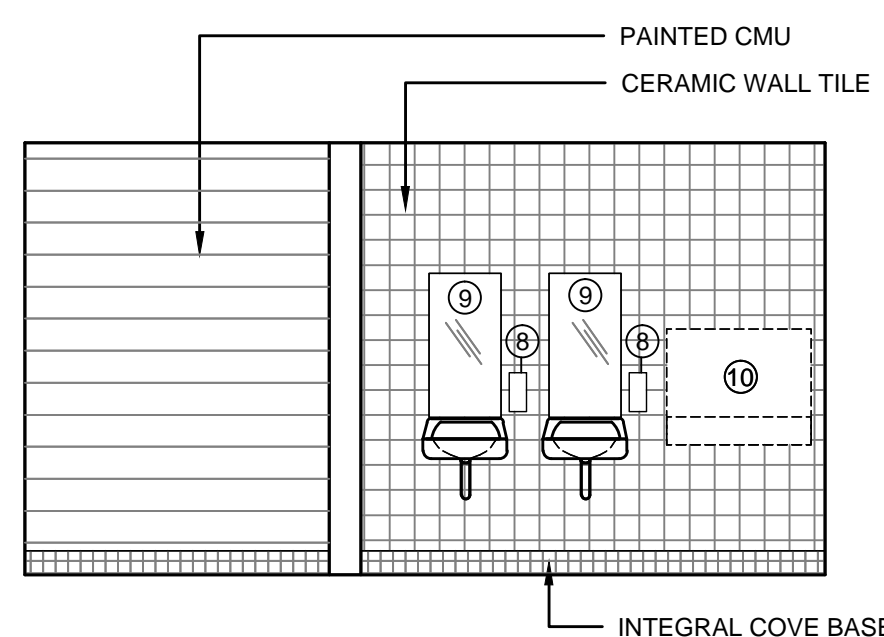
6 WOMEN'S TOILET
1/4" = 1'-0"



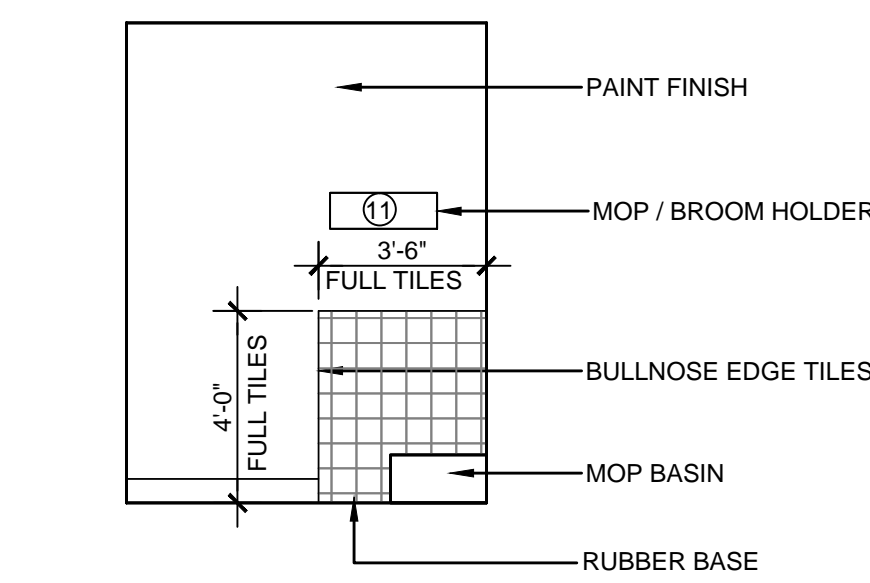
8 MEN'S TOILET
1/4" = 1'-0"



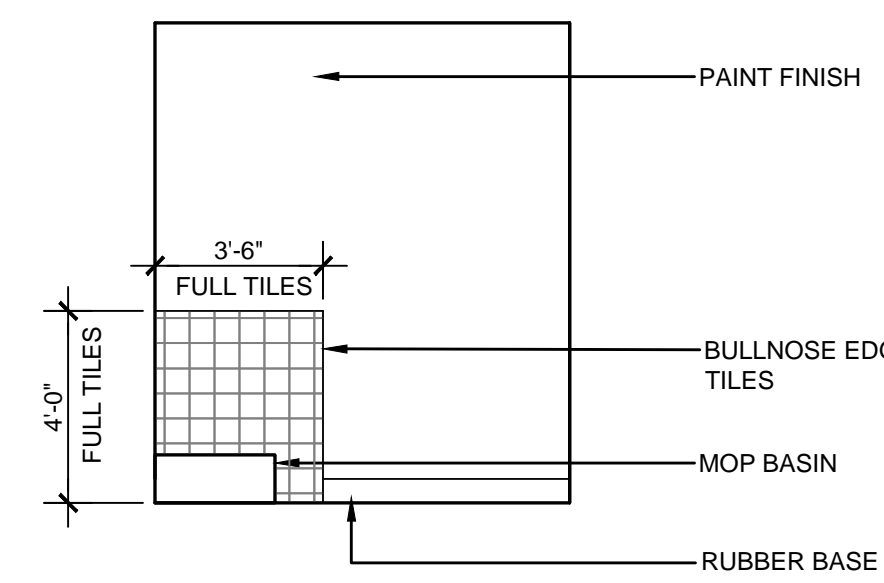
4 WOMEN'S TOILET
1/4" = 1'-0"



9 MEN'S TOILET
1/4" = 1'-0"



11 JANITOR
1/4" = 1'-0"

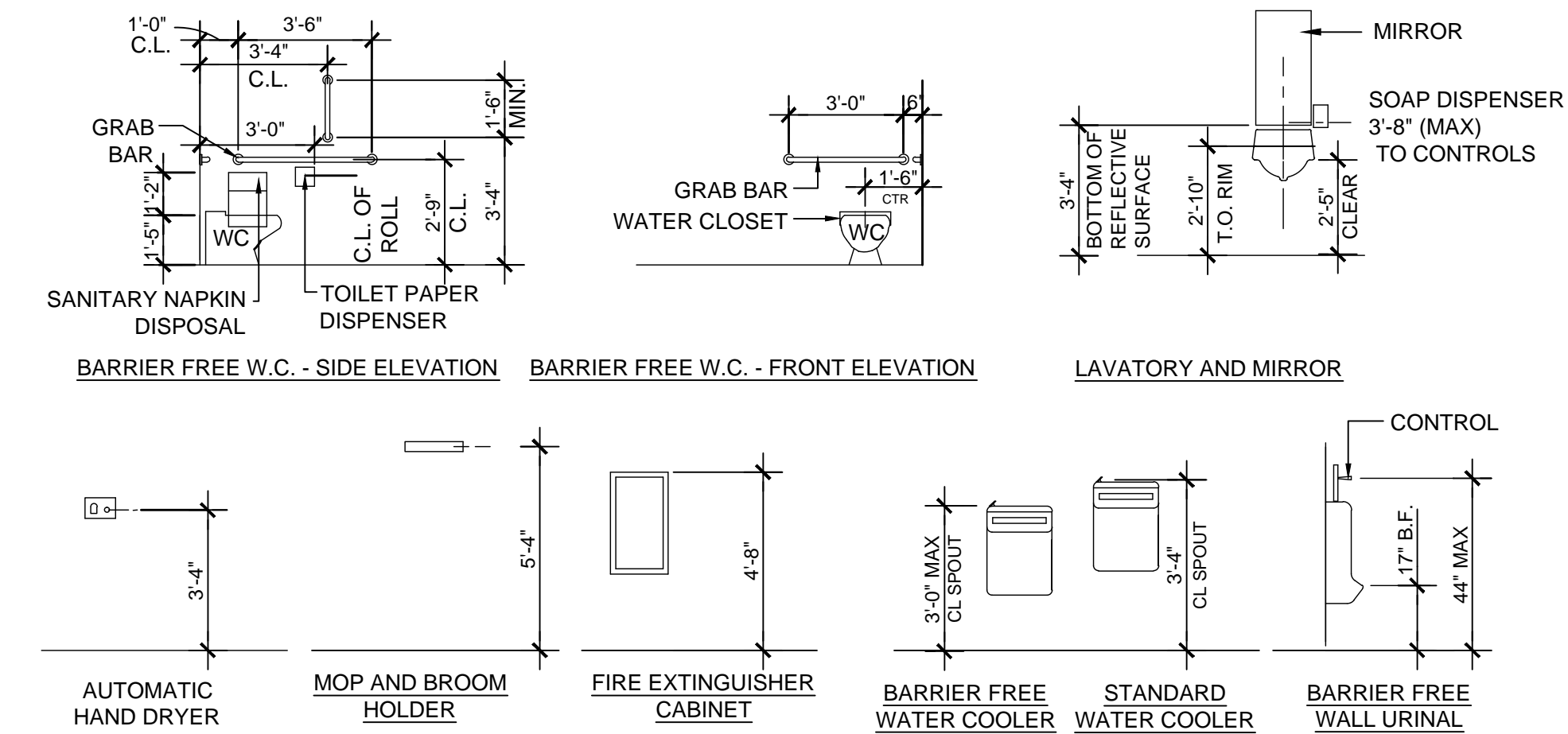


12 JANITOR
1/4" = 1'-0"

TOILET ACCESSORY SCHEDULE			
ACCESSORY	MANUFACTURE	CATALOG NO	DATA
1 GRAB BAR	BOBRICK	B-6806X42	1 1/2" DIA. X 42"
2 GRAB BAR	BOBRICK	B-6806X36	1 1/2" DIA. X 36"
3 GRAB BAR	BOBRICK	B-6806X18	1 1/2" DIA. X 18"
4 AUTOMATIC HAND DRYERS	EXCEL	HO-IC	SURFACE MOUNT - CHROME
5			
6 TOILET PAPER DISPENSER	ROYCE ROLLS	STP-2	2 ROLL WITH ANGLE LID
7 NAPKIN DISPOSAL	ROYCE ROLLS	SNR	STAINLESS
8 LIQUID SOAP DISPENSER	ROYCE ROLLS	LSV	STAINLESS
9 FRAMED MIRROR	ROYCE ROLLS	ASG1836	18X36 SNAP FRAME
10 BABY CHANGING STATION			SUPPLIED BY OWNER, INSTALLED BY CONTRACTOR
11 MOP / BROOM HOLDER	BOBRICK	B-223 X 24	24" WIDE / 3 HOLDERS
12 WALL STOP / ROBE HOOK	BOBRICK	B-212	MOUNT TO BACK OF TOILET PARTITION DOOR

- NOTES:
- PROVIDE BLOCKING AS REQUIRED AT ACCESSORIES
 - PROVIDE SEALANT AT PERIMETER OF ACCESSORIES AS REQUIRED WITHIN WALL FINISH.
 - MOP / BROOM HOLDER OPPOSITE THE FAUCET LOCATION

ACCESSORY MOUNTING HEIGHTS



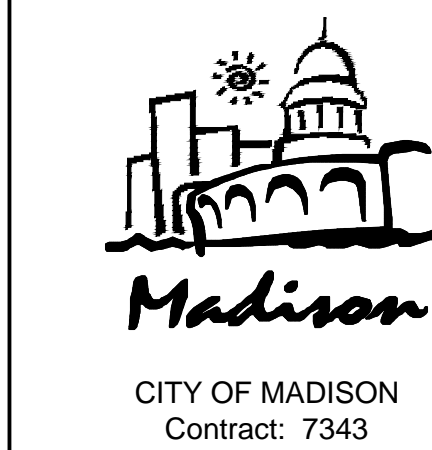
**assemblage
ARCHITECTS**
7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT

SHEET NAME

ENLARGED FLOOR PLAN AND ELEVATIONS



REVISION DATE

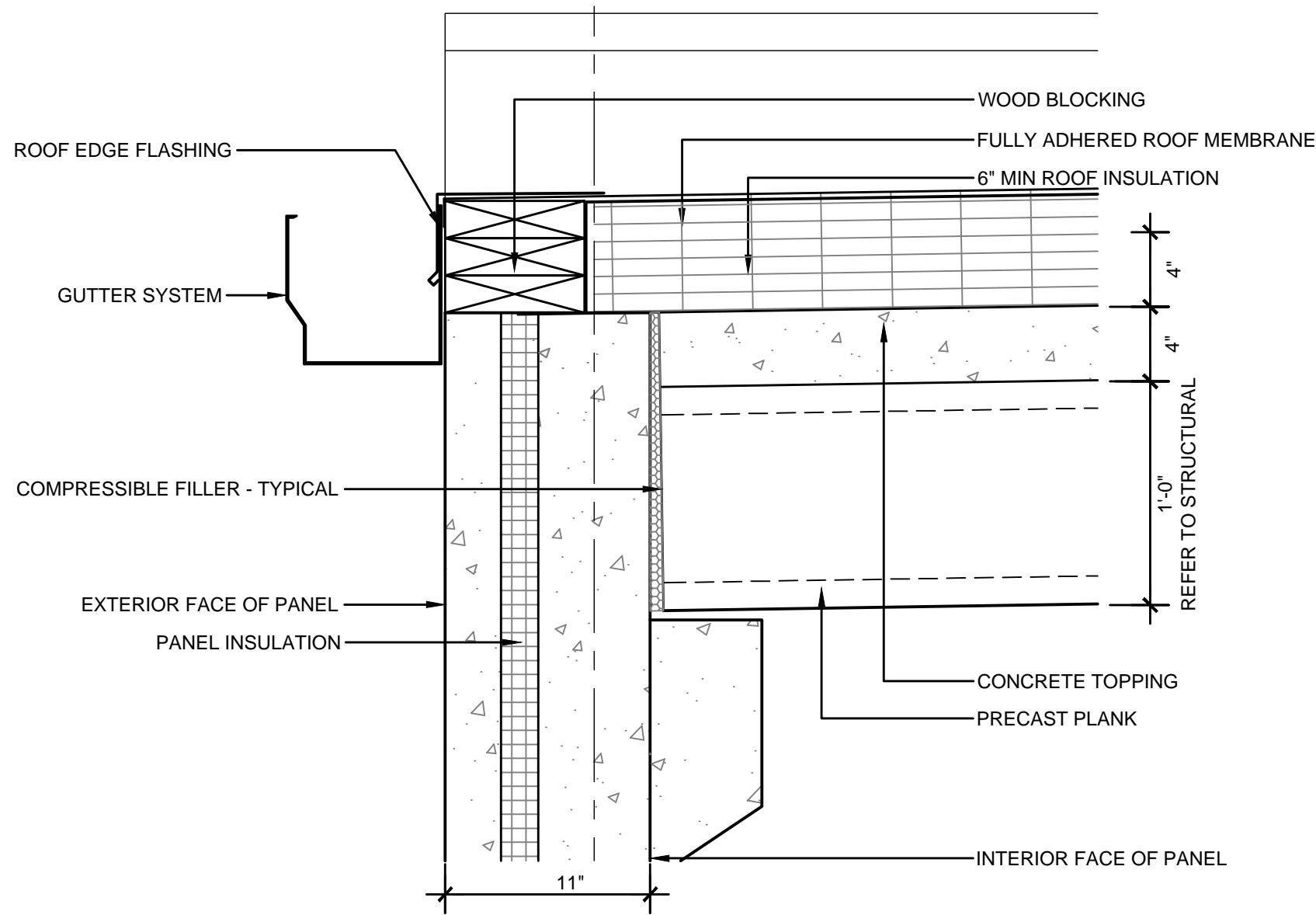
PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

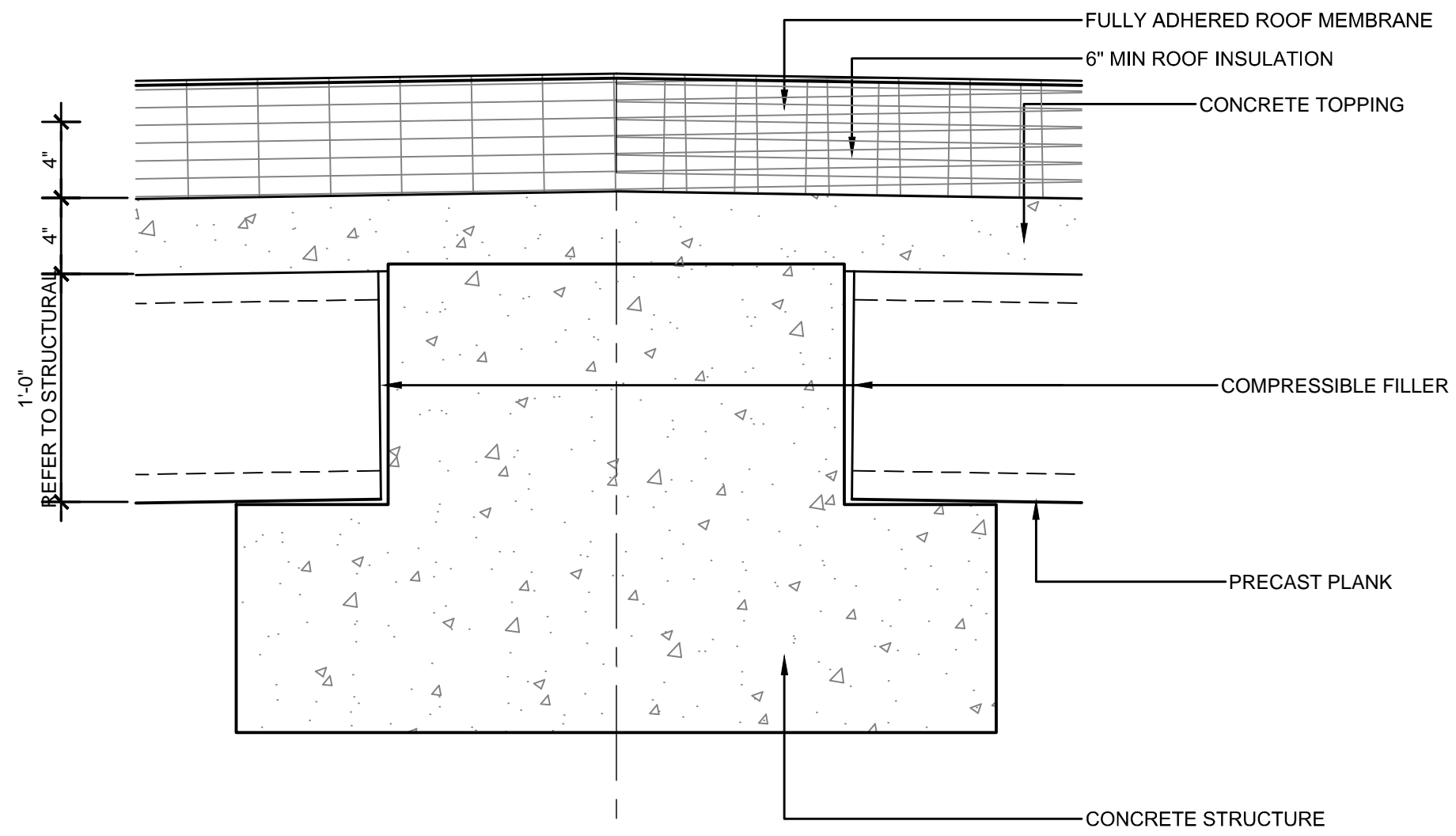
SHEET NUMBER

A401

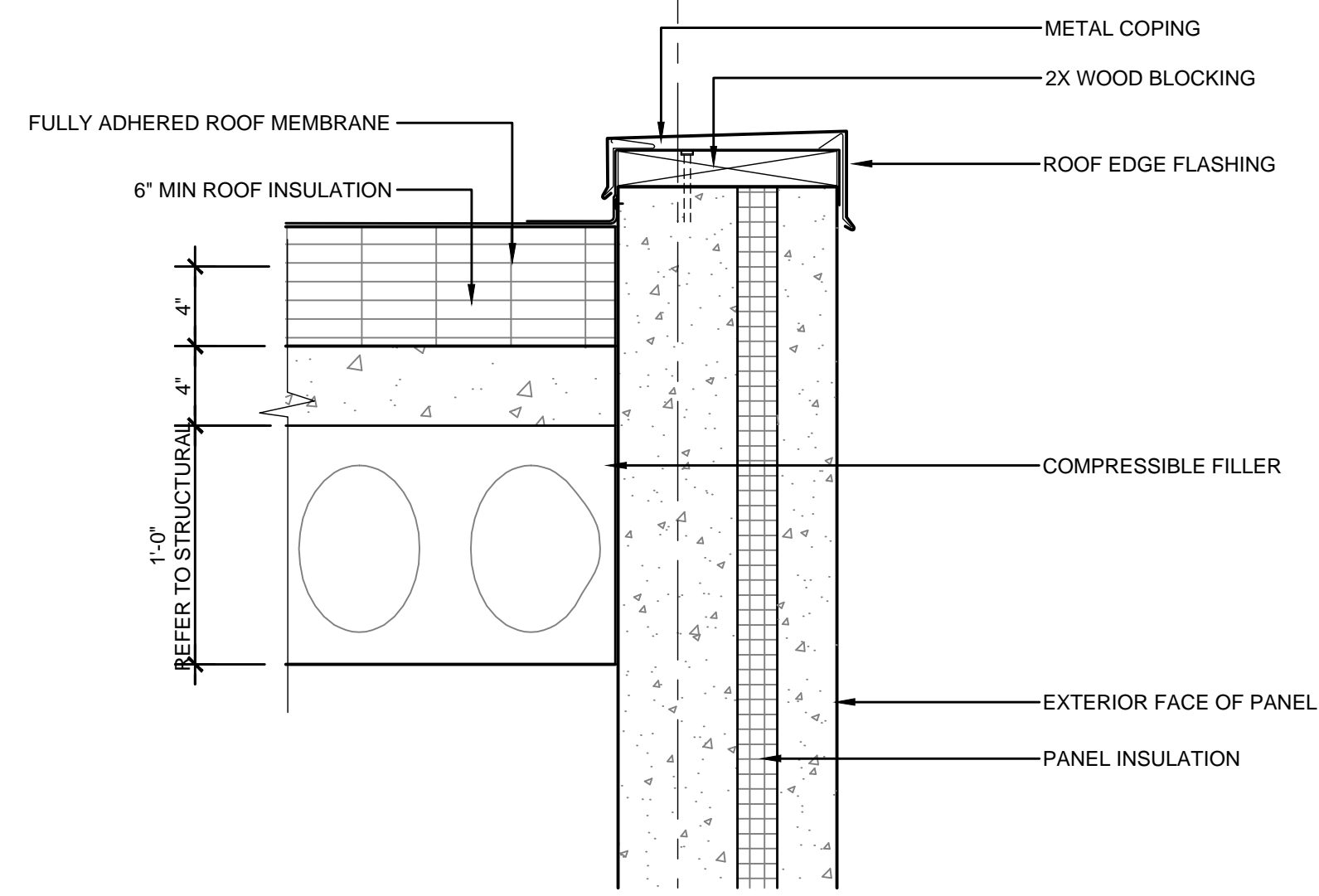


1
1 1/2" = 1'-0"

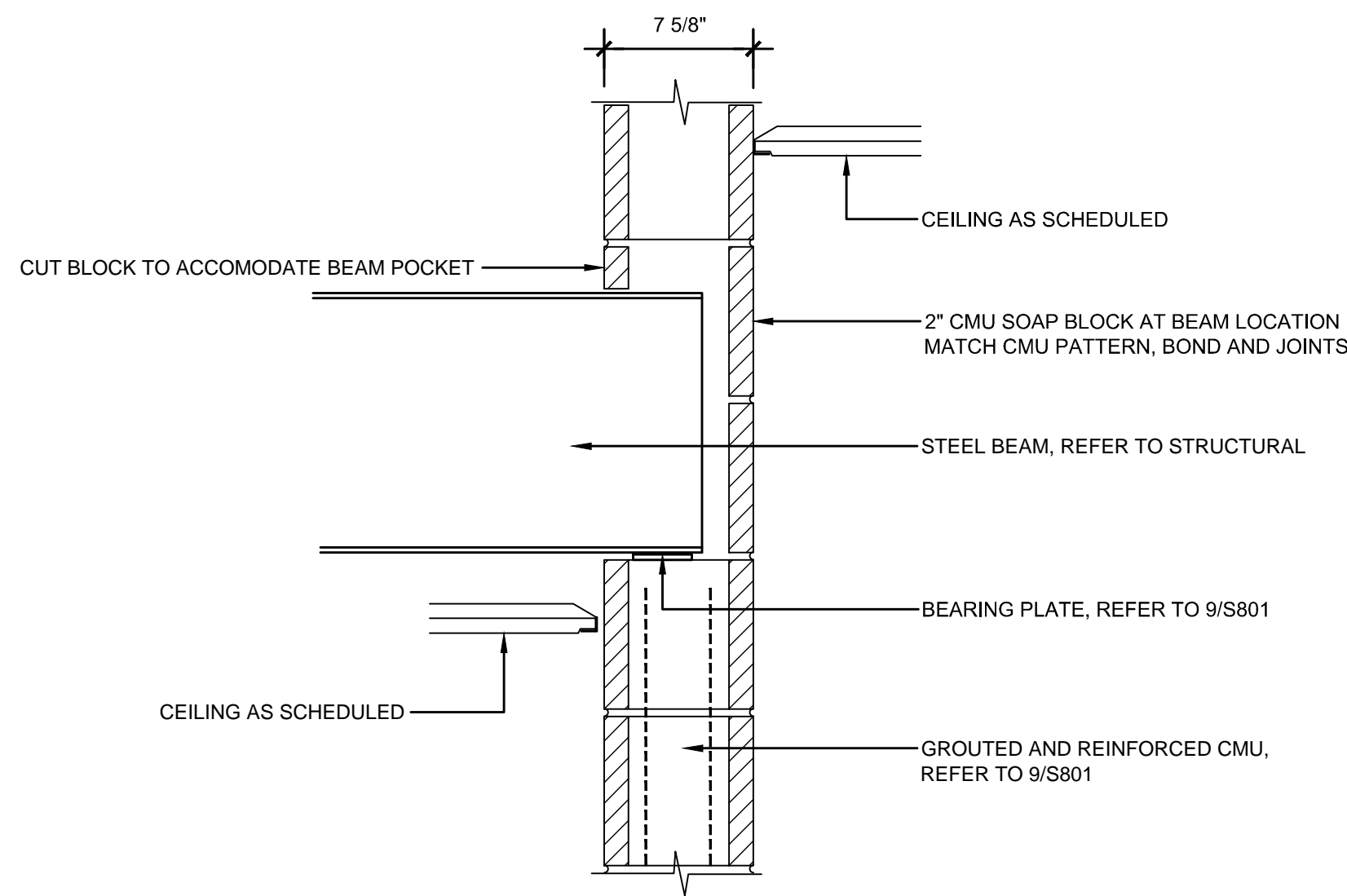
REFER TO STRUCTURAL FOR CONNECTION
AND OTHER STRUCTURAL REQUIREMENTS,
NOT DEPICTED IN THESE DRAWINGS



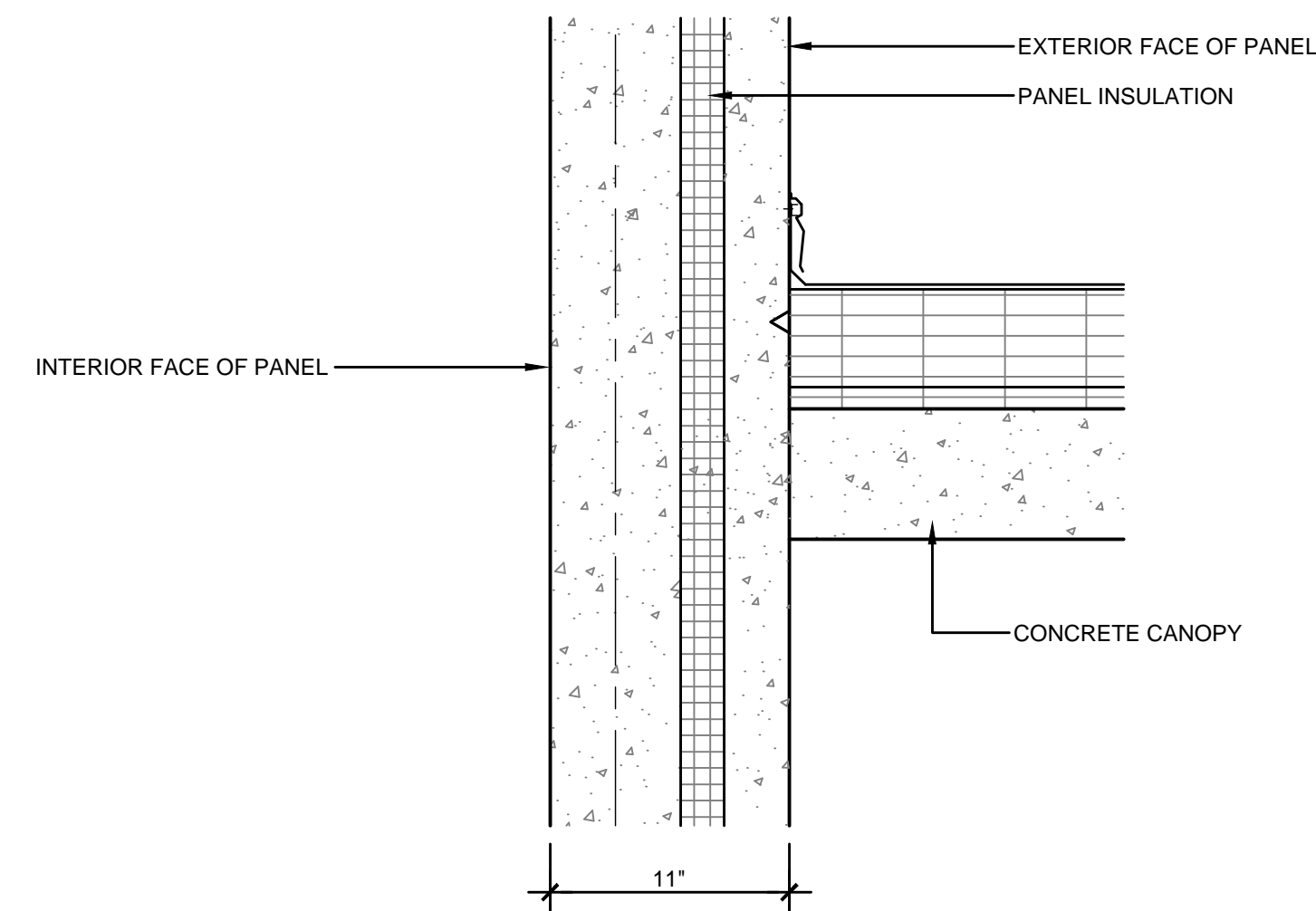
2
1 1/2" = 1'-0"



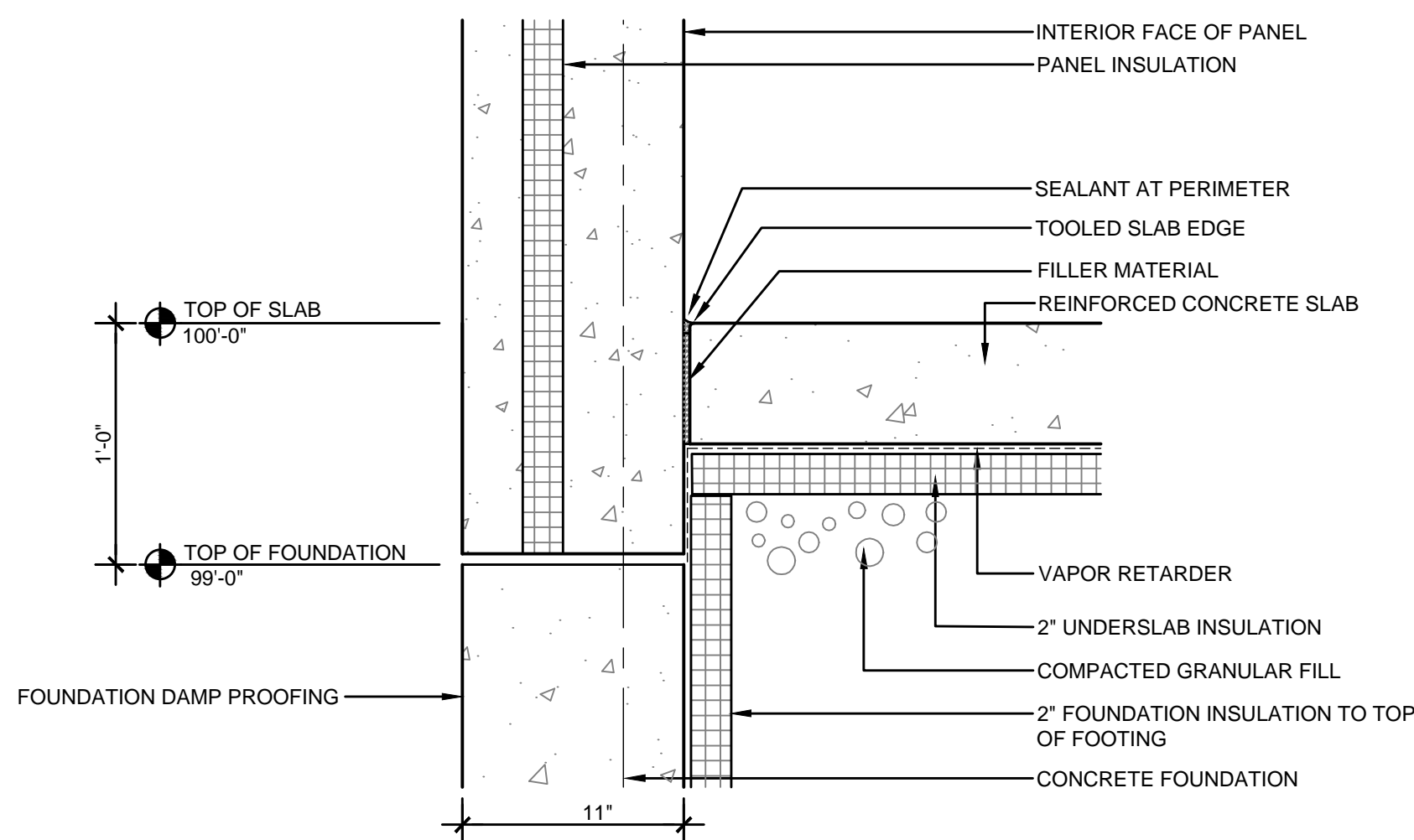
3
1 1/2" = 1'-0"



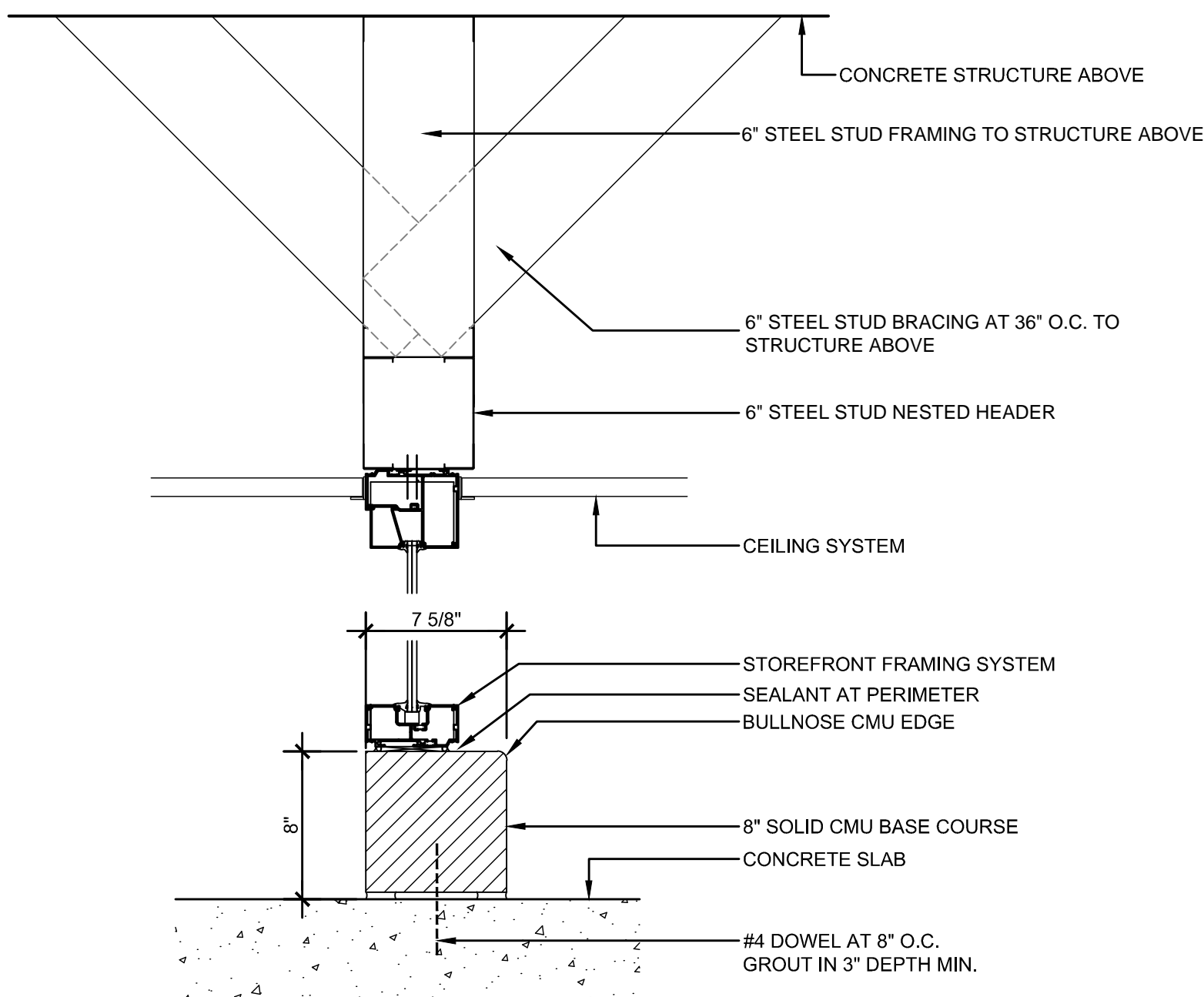
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1 1/2" = 1'-0"



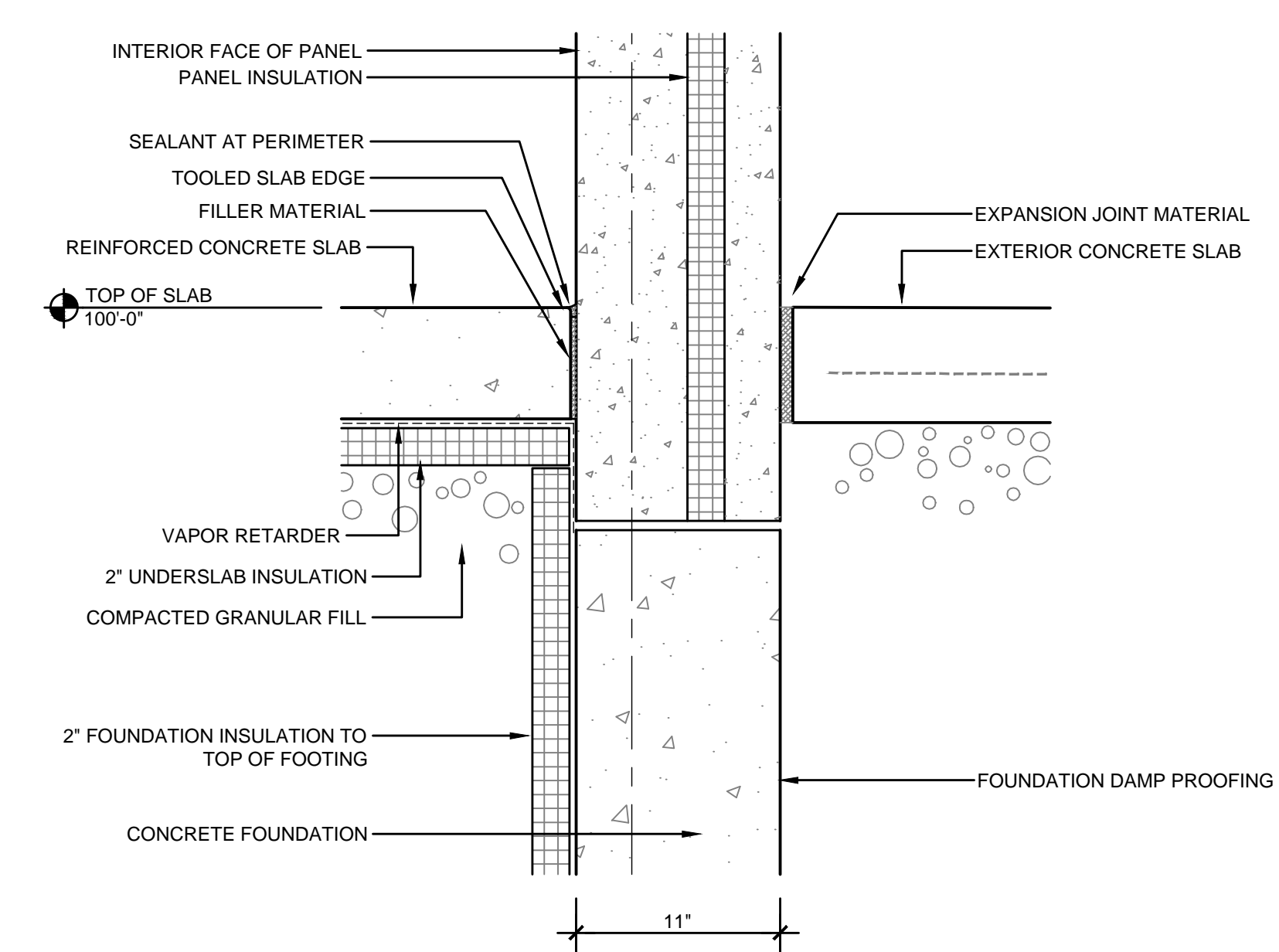
6
1 1/2" = 1'-0"



7
1 1/2" = 1'-0"



8
1 1/2" = 1'-0"



9
1 1/2" = 1'-0"

assemblage ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

DETAILS



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A501

assemblage
ARCHITECTS

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Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN



CITY OF MADISON
Contract: 7343

REVISION	DATE
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PROJECT NO	1307
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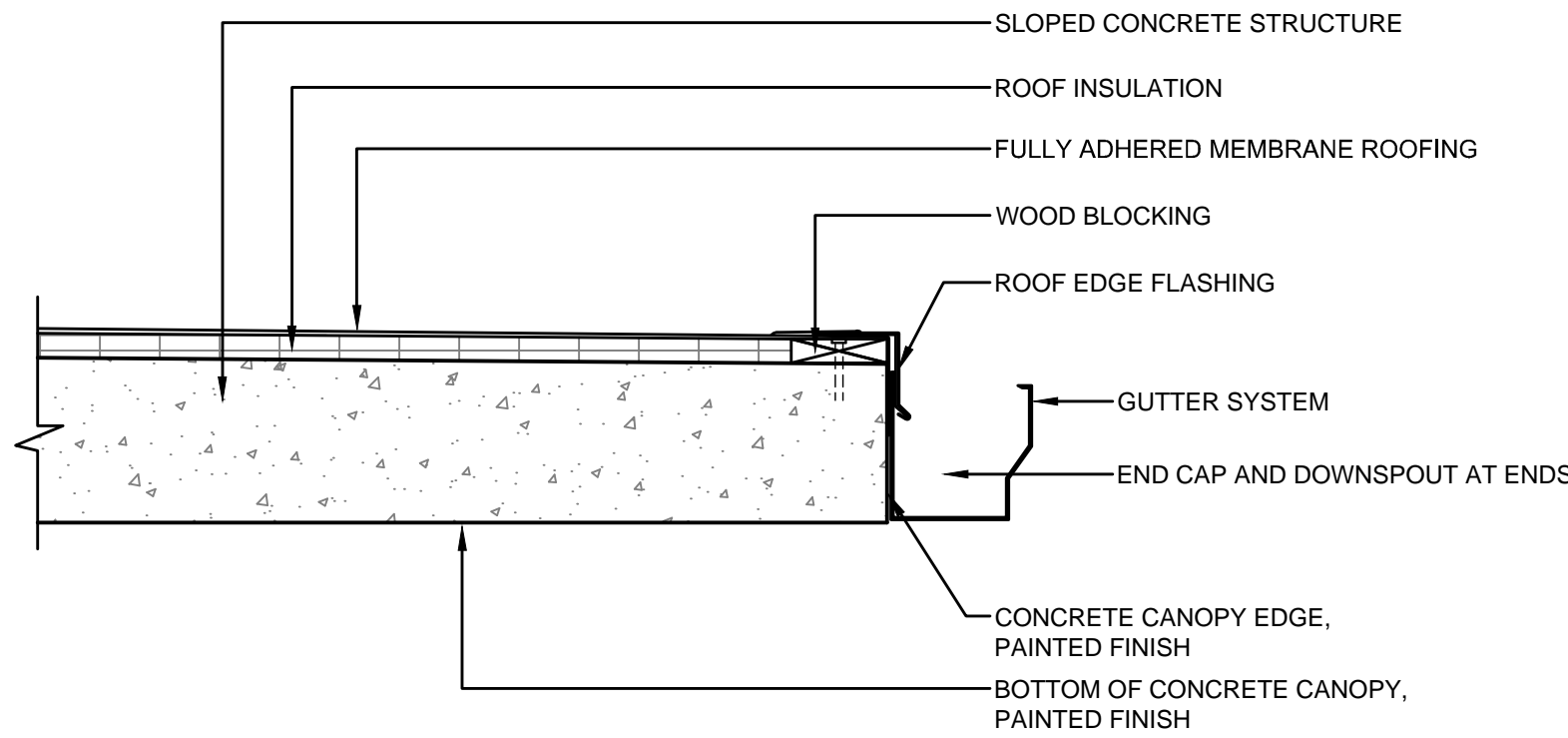
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DATE	05-30-2014
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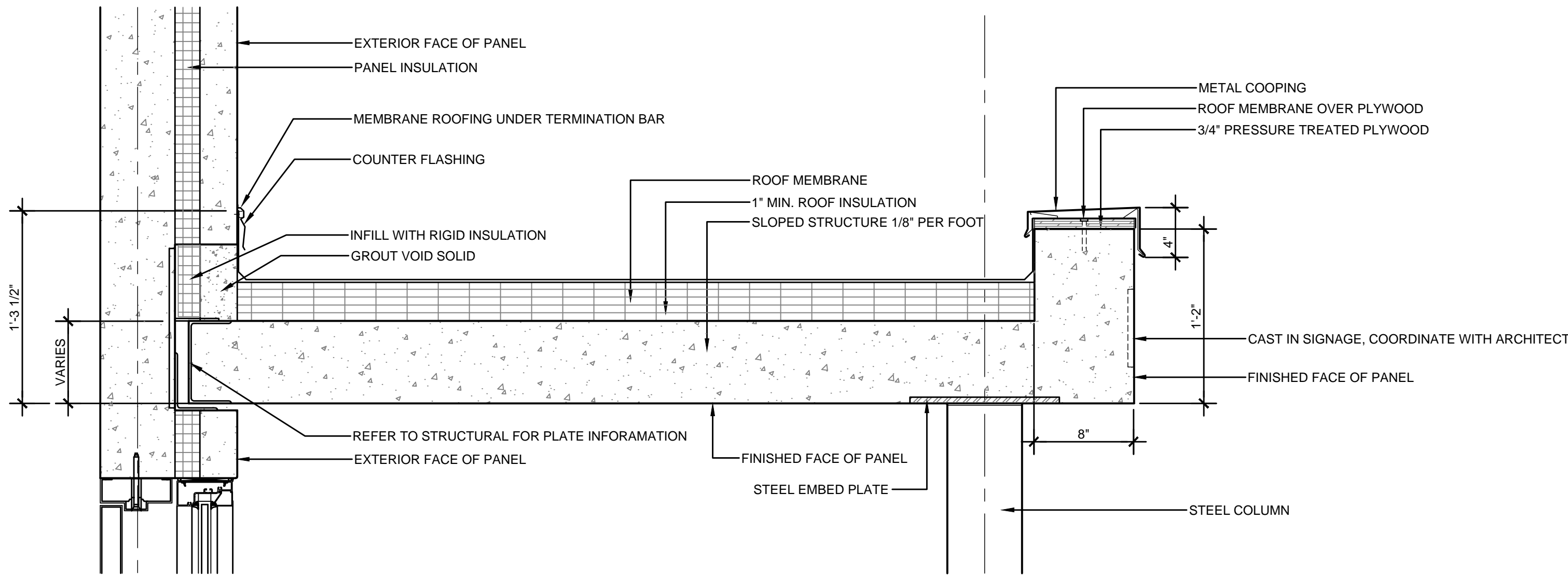
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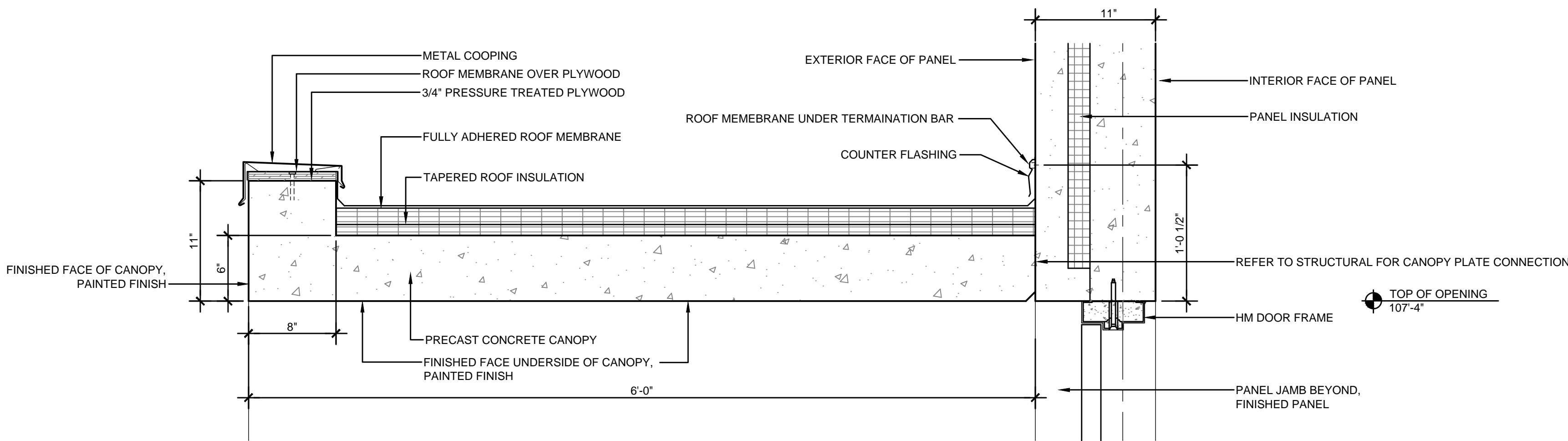
REFER TO STRUCTURAL FOR CONNECTION
AND OTHER STRUCTURAL REQUIREMENTS,
NOT DEPICTED IN THESE DRAWINGS



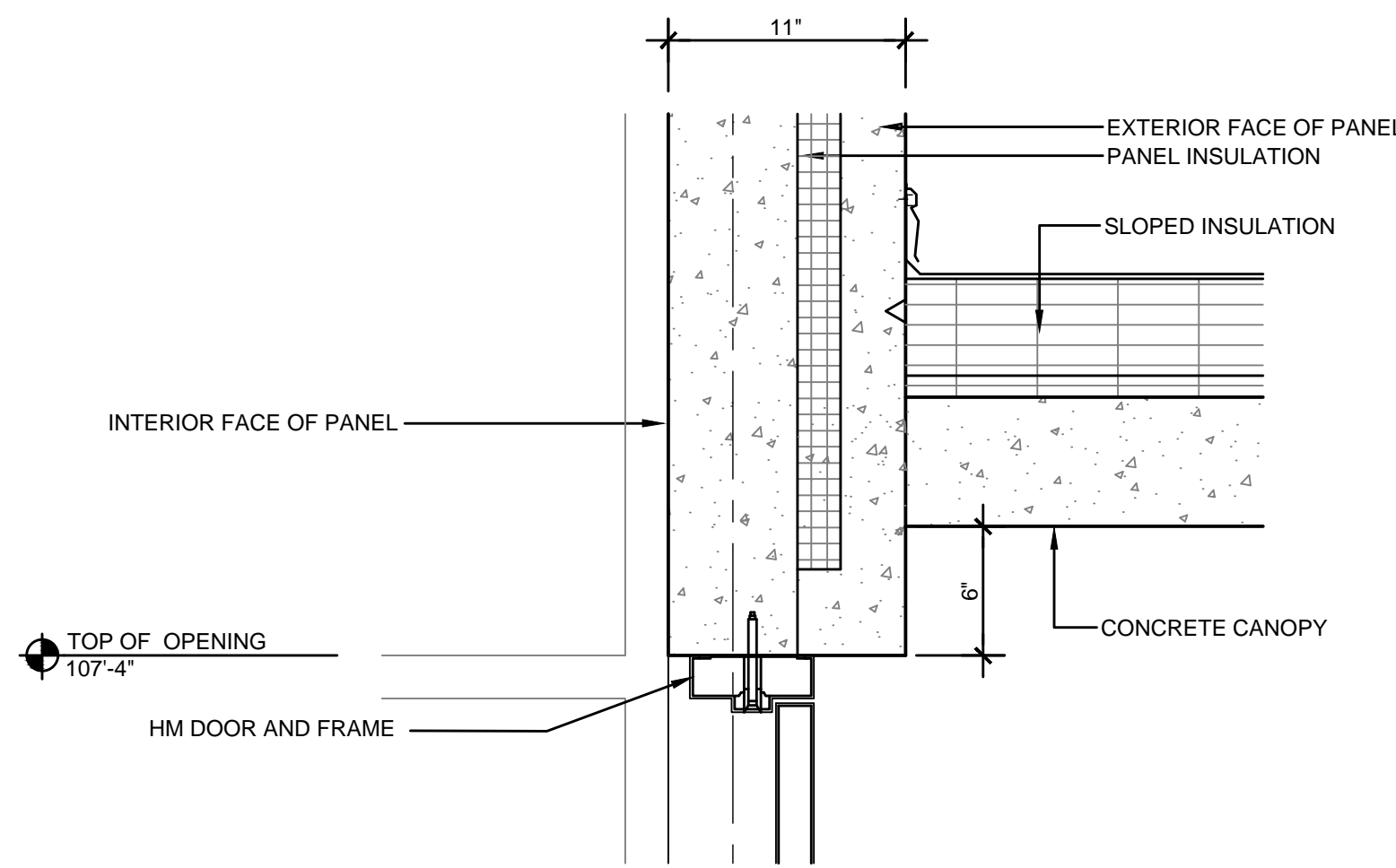
1 CANOPY DETAIL ROOF EDGE
1 1/2" = 1'-0"



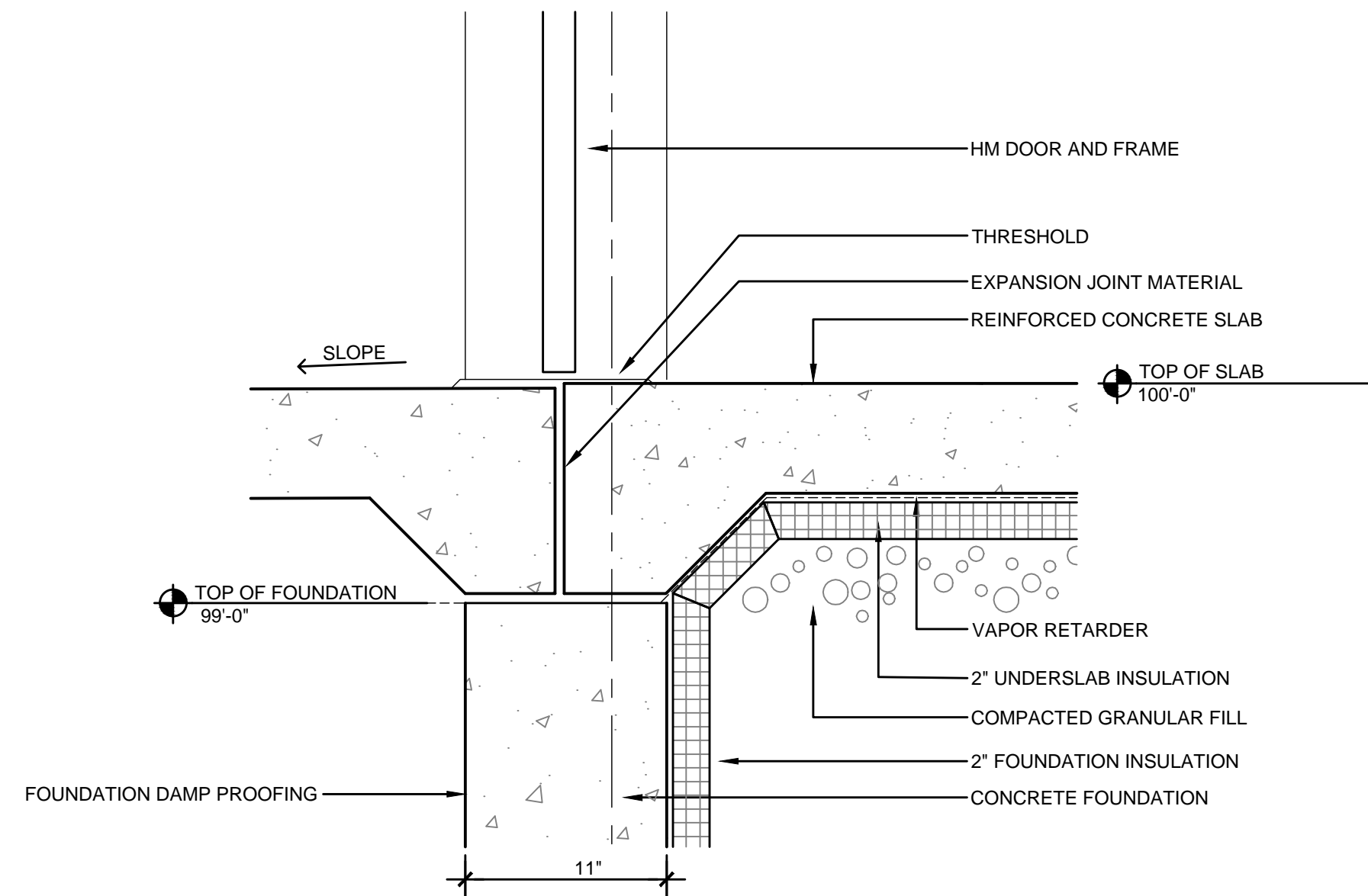
2 CANOPY DETAIL
1 1/2" = 1'-0"



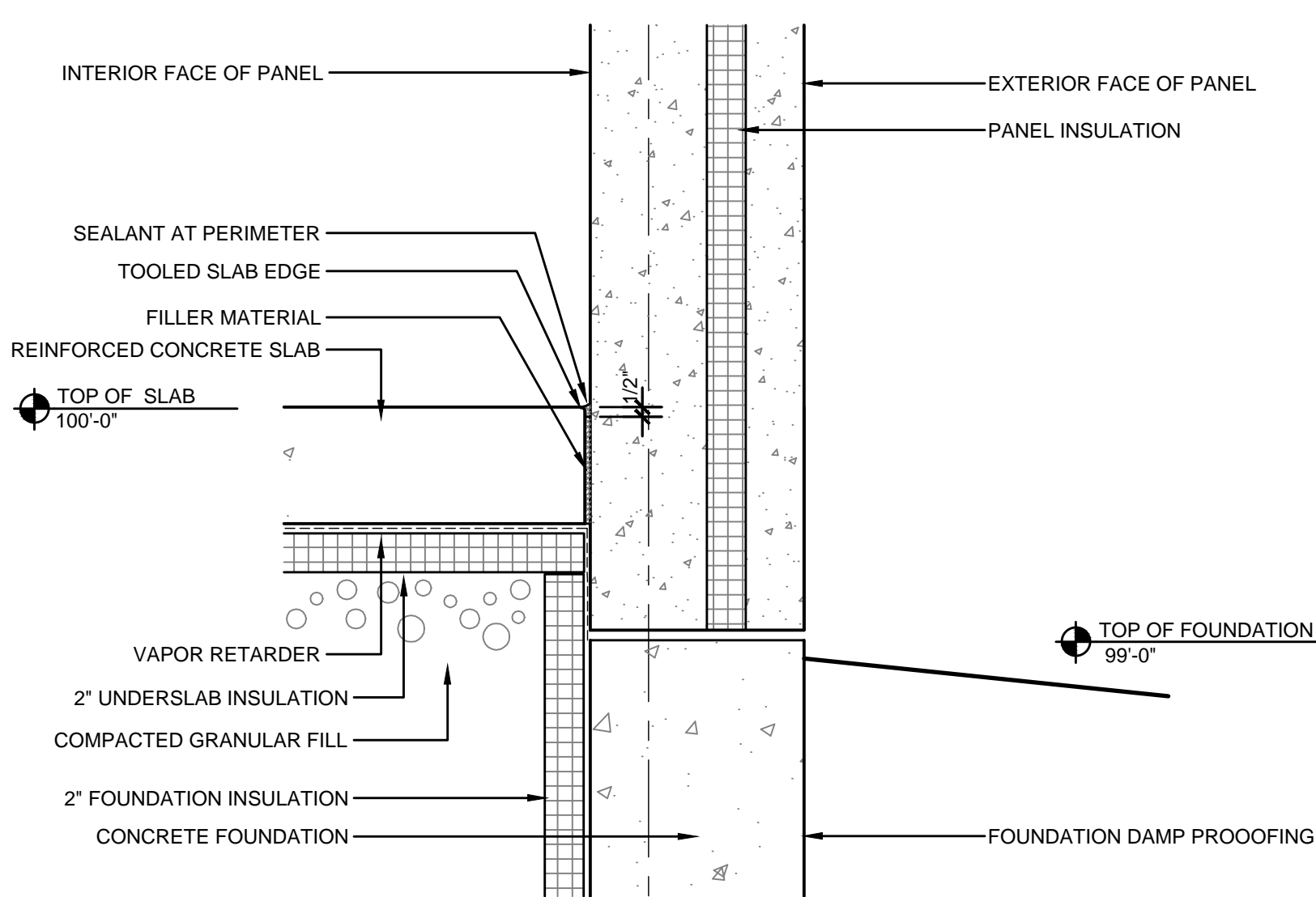
4 CANOPY DETAIL
1 1/2" = 1'-0"



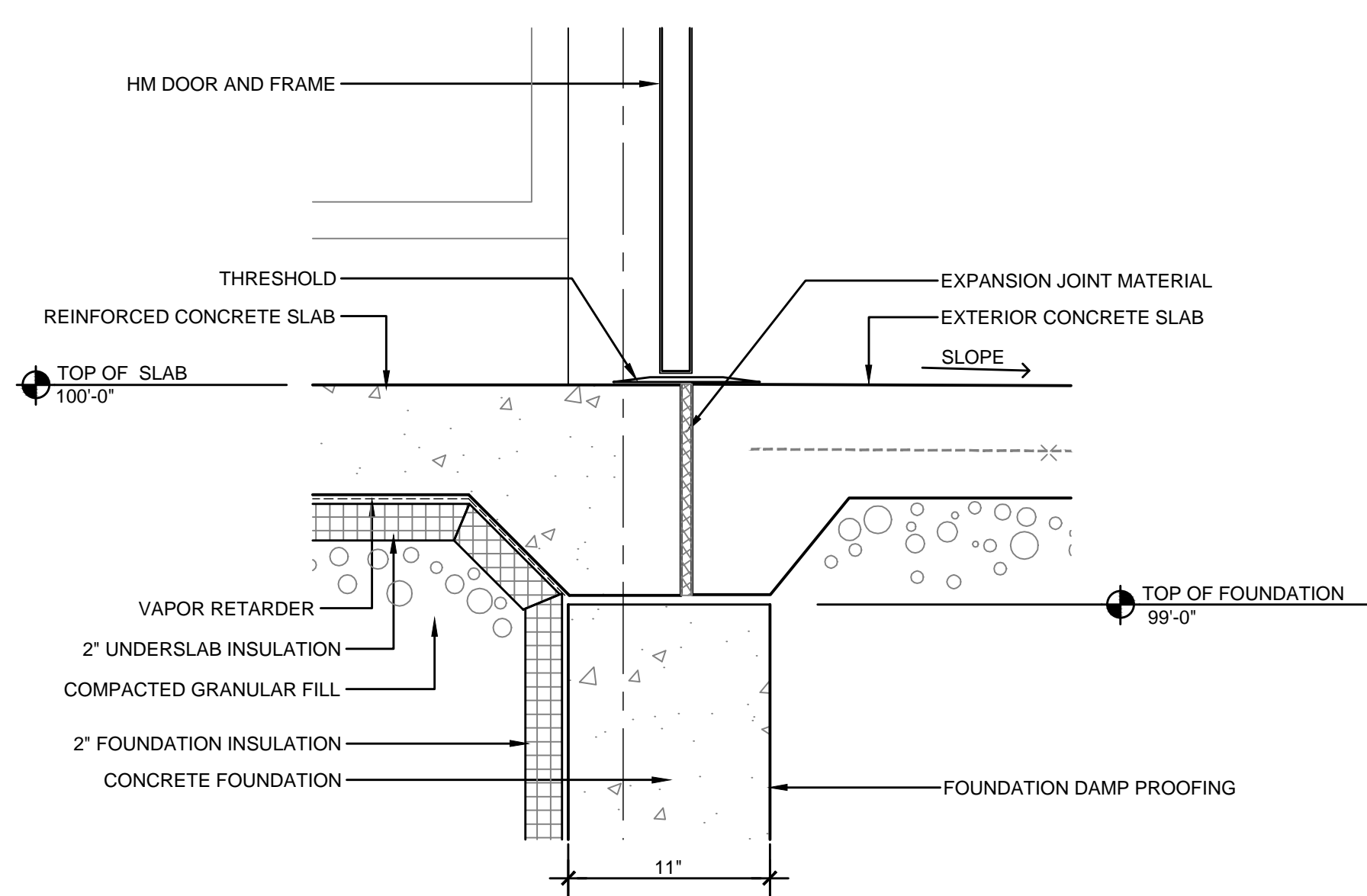
6 DETAIL
1 1/2" = 1'-0"



7 DETAIL
1 1/2" = 1'-0"



8 DETAIL
1 1/2" = 1'-0"



9 DETAIL
1 1/2" = 1'-0"

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A601

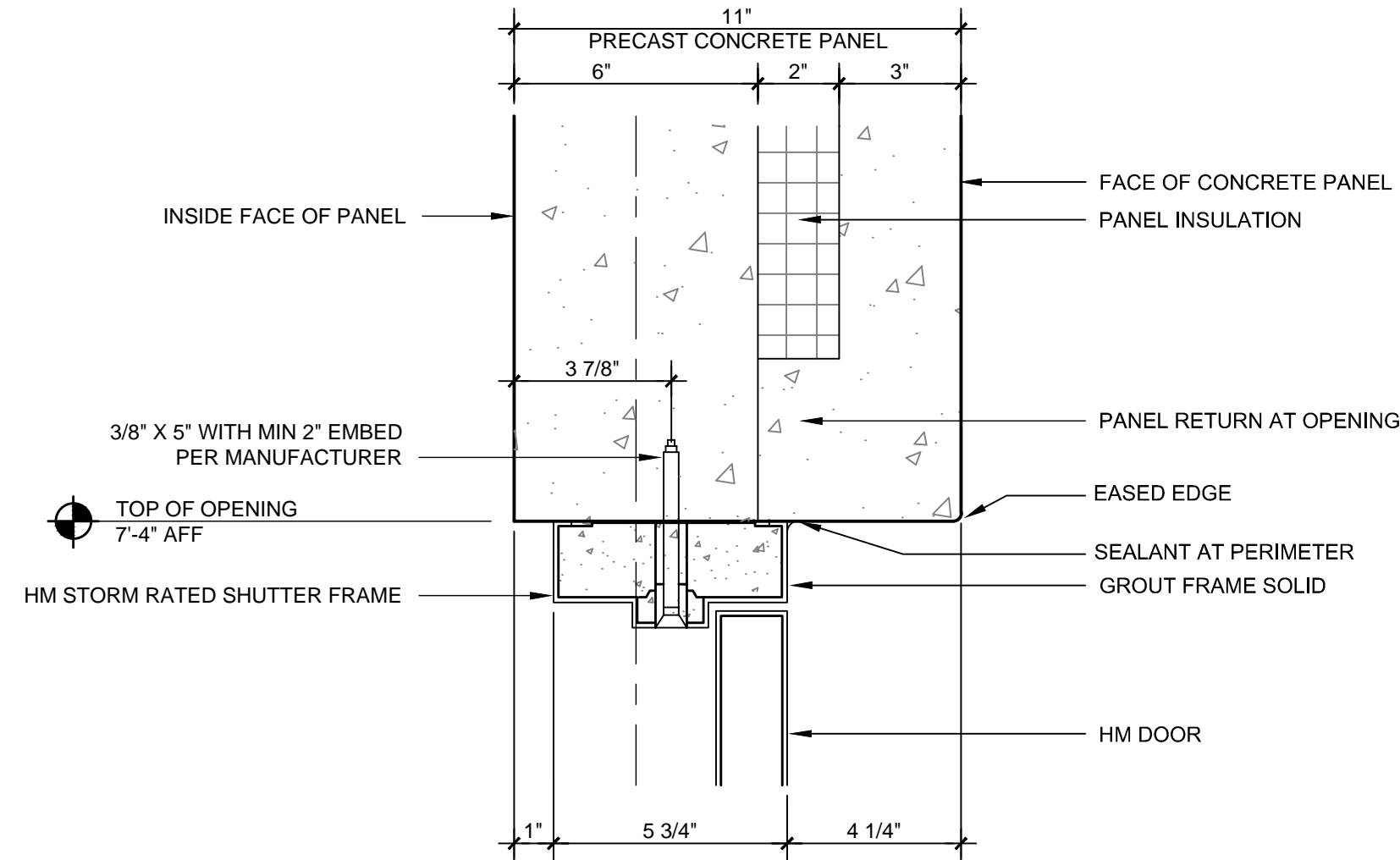
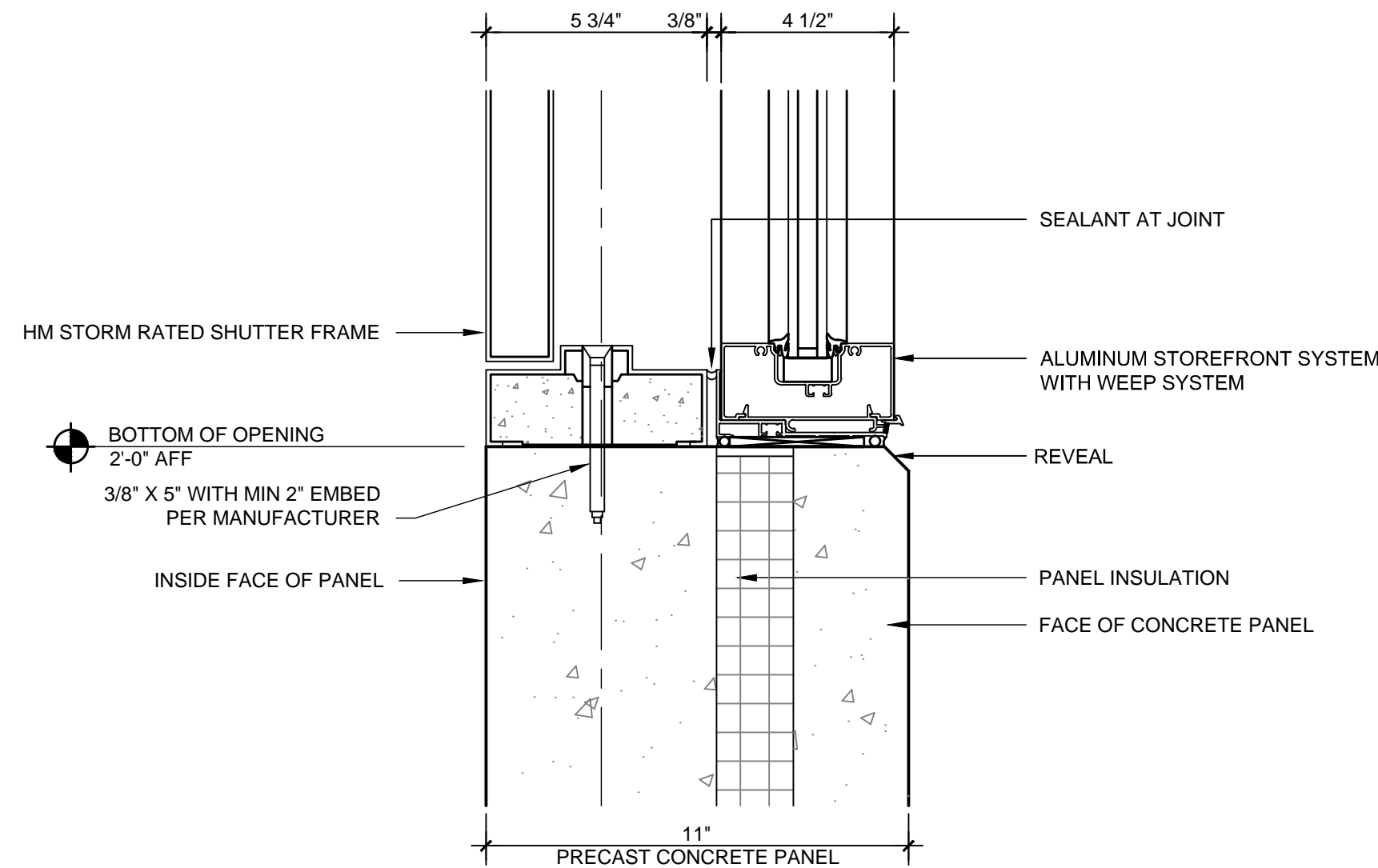
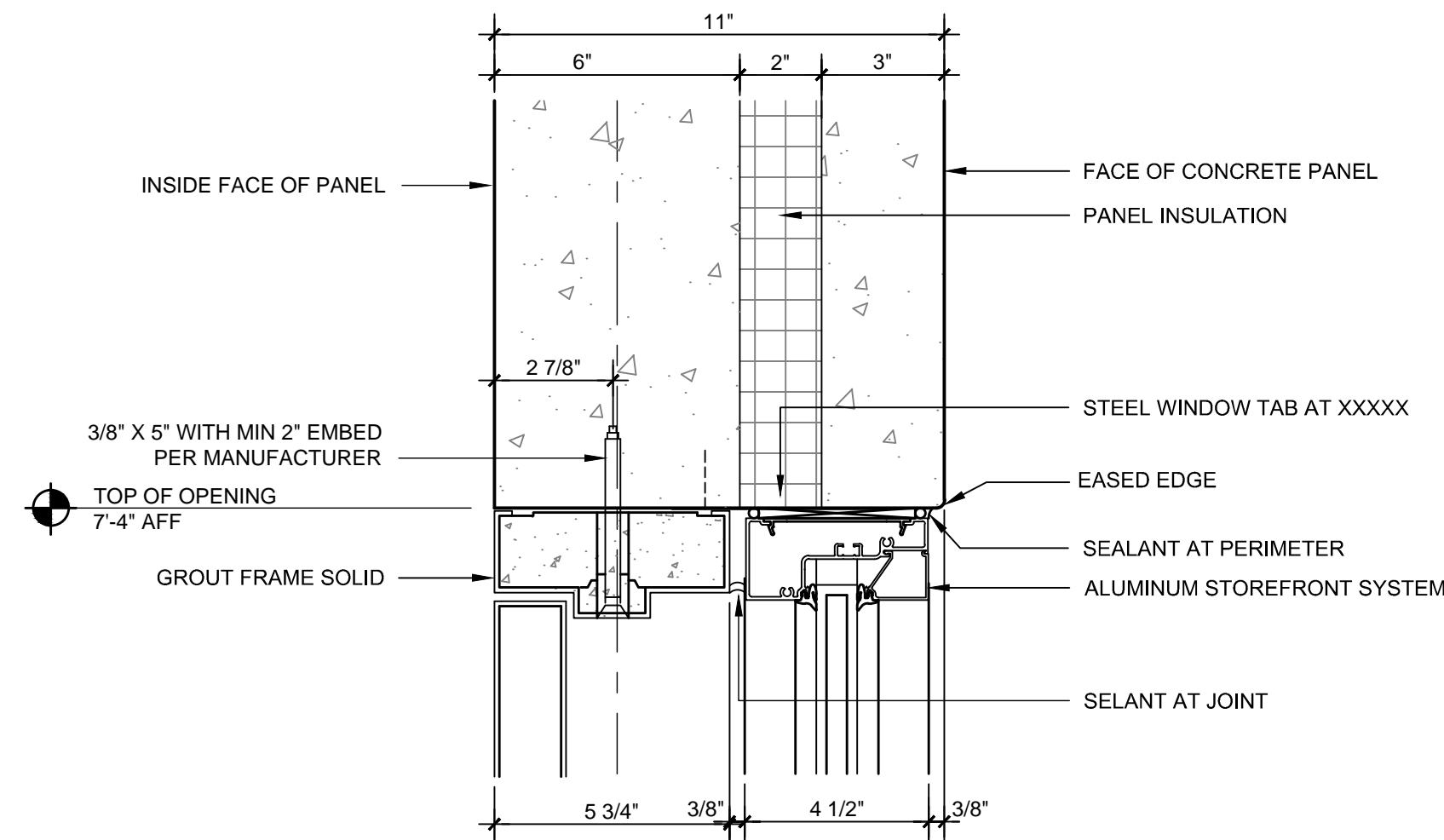
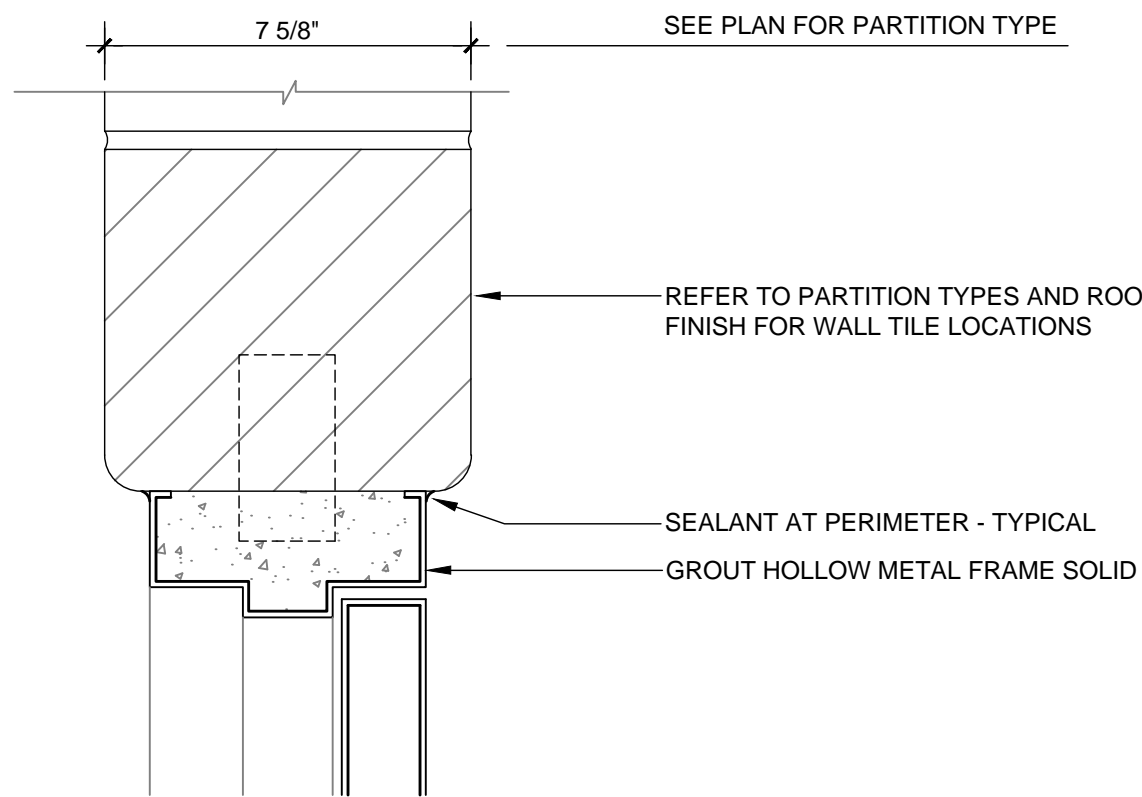
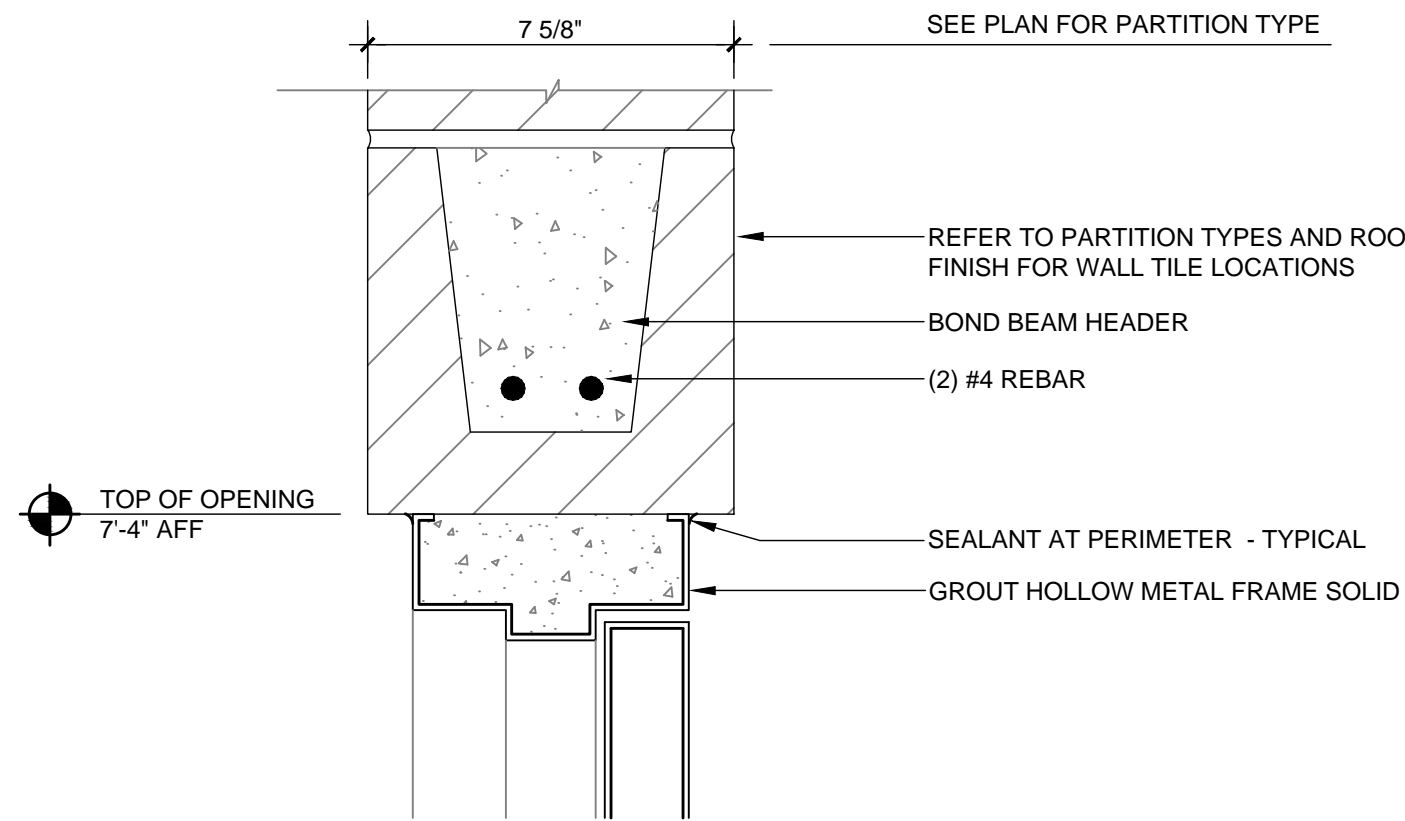
1 INTERIOR DOOR - HEAD
3"= 1'-0"

4 INTERIOR DOOR - JAMB
3"= 1'-0"

2 SHUTTER - HEAD AND JAMB
3"= 1'-0"

5 SHUTTER - SILL
3"= 1'-0"

8 EXTERIOR DOOR
3"= 1'-0"



DOOR SCHEDULE		DOOR													FRAME		HARDWARE			
DOOR NO.		SIZE	TYPE	MAT'L	FINISH	GLASS	LABEL	TYPE	MAT'L	FINISH	HEAD DETAIL	JAMB/SILL DETAIL	NOTES							
101A	SAFEROOM	3'-4" X 7'-2"	A	GALV	PAINT	NA	NA	1	GALV	PAINT	8 / A601	9 / A502						# 2		
101B	SAFEROOM	3'-4" X 7'-2"	A	GALV	PAINT	NA	NA	1	GALV	PAINT	8 / A601	9 / A502	ELECTRIFIED					# 1		
101C	SAFEROOM	3'-4" X 7'-2"	A	GALV	PAINT	NA	NA	1	GALV	PAINT	8 / A601	9 / A502						# 2		
101D	SAFEROOM	3'-4" X 7'-2"	A	GALV	PAINT	NA	NA	1	GALV	PAINT	8 / A601	9 / A502						# 2		
101E, F, G	SAFEROOM	2'-6" X 5'-0"	C	HM	PAINT	IGU	NA	3	HM	PAINT	2 / A601	5 / A601	SHUTTER					# 7		
101H, J, K	SAFEROOM	2'-6" X 5'-0"	C	HM	PAINT	IGU	NA	3	HM	PAINT	2 / A601	5 / A601	SHUTTER					# 7		
101L, M, N	SAFEROOM	2'-6" X 5'-0"	C	HM	PAINT	IGU	NA	3	HM	PAINT	2 / A601	5 / A601	SHUTTER					# 7		
101P,R,S,T	SAFEROOM (VESTIBULES)	3'-4" X 7'-2"	D	ALUM		LGU		AA	ALUM		14 / A601	15,16,17 / A601	4					# 8		
102A	WOMEN'S TOILET	3'-0" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 4		
103A	MEN'S TOILET	3'-0" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 4		
104A	MECHANICAL	3'-0" X 7'-2"	B	HM	PAINT	NA	NA	2	HN	PAINT	1 / A601	4 / A601						# 6		
104B	MECHANICAL	3'-0" X 7'-2"	A	HM	GALV	NA	NA	1	GALV	PAINT	8 / A601	7 / A502						# 3		
105A	JANITOR	3'-0" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 6		
106A-B	SAFEROOM STOR	(2) 3'-6" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 5		
107A-B	STORAGE	(2) 3'-6" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 5		
108 A	CHASE	3'-0" X 7'-2"	B	HM	PAINT	NA	NA	2	HM	PAINT	1 / A601	4 / A601						# 6		

SPECIFIC DOOR SCHEDULE NOTES:

1. PROVIDE CONDUIT WITHIN DOOR TO ACCOMMODATE REMOTE ENTRANCE SIGNAL. COORDINATE WITH ELECTRICAL AND HARDWARE
2. INSULATED HOLLOW METAL DOOR AND FRAME AT EXTERIOR
3. 3/4" DOOR UNDERCUT AT INTERIOR DOORS
4. SEE ELEVATIONS AA, BB, CC AND GLASS TYPES

HARDWARE NOTES:

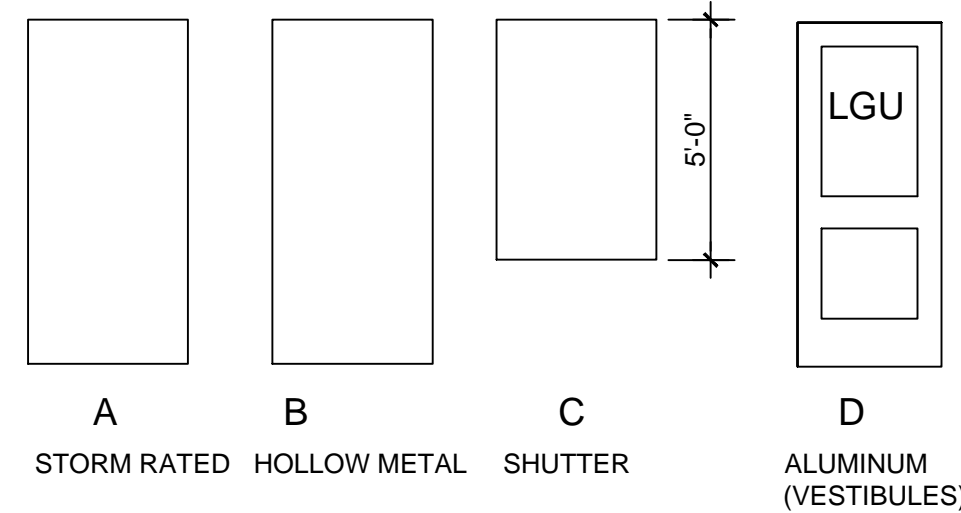
1. CONTRACTOR TO PROVIDE CYLINDER.
2. CYLINDER SHALL BE KEYED TO CITY/PARKS MASTER SYSTEM. SCHLAGE - COORDINATE WITH OWNER
3. EXTERIOR DOORS TO HAVE WEATHER STRIPPING AND THRESHOLDS

GLASS TYPES AND ABBREVIATIONS:

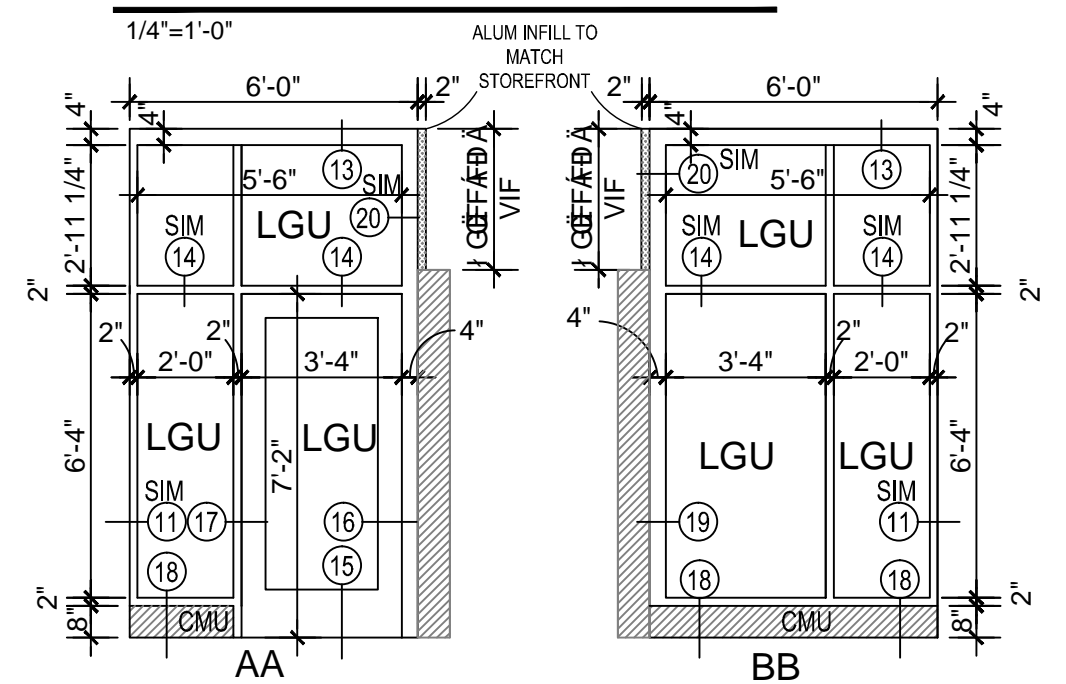
ALUM ALUMINUM
IGU INSULATED GLASS UNIT
GALV GALVANIZED
HM HOLLOW METAL
LGU LAMINATED GLASS UNIT

GENERAL DOOR SCHEDULE NOTES:

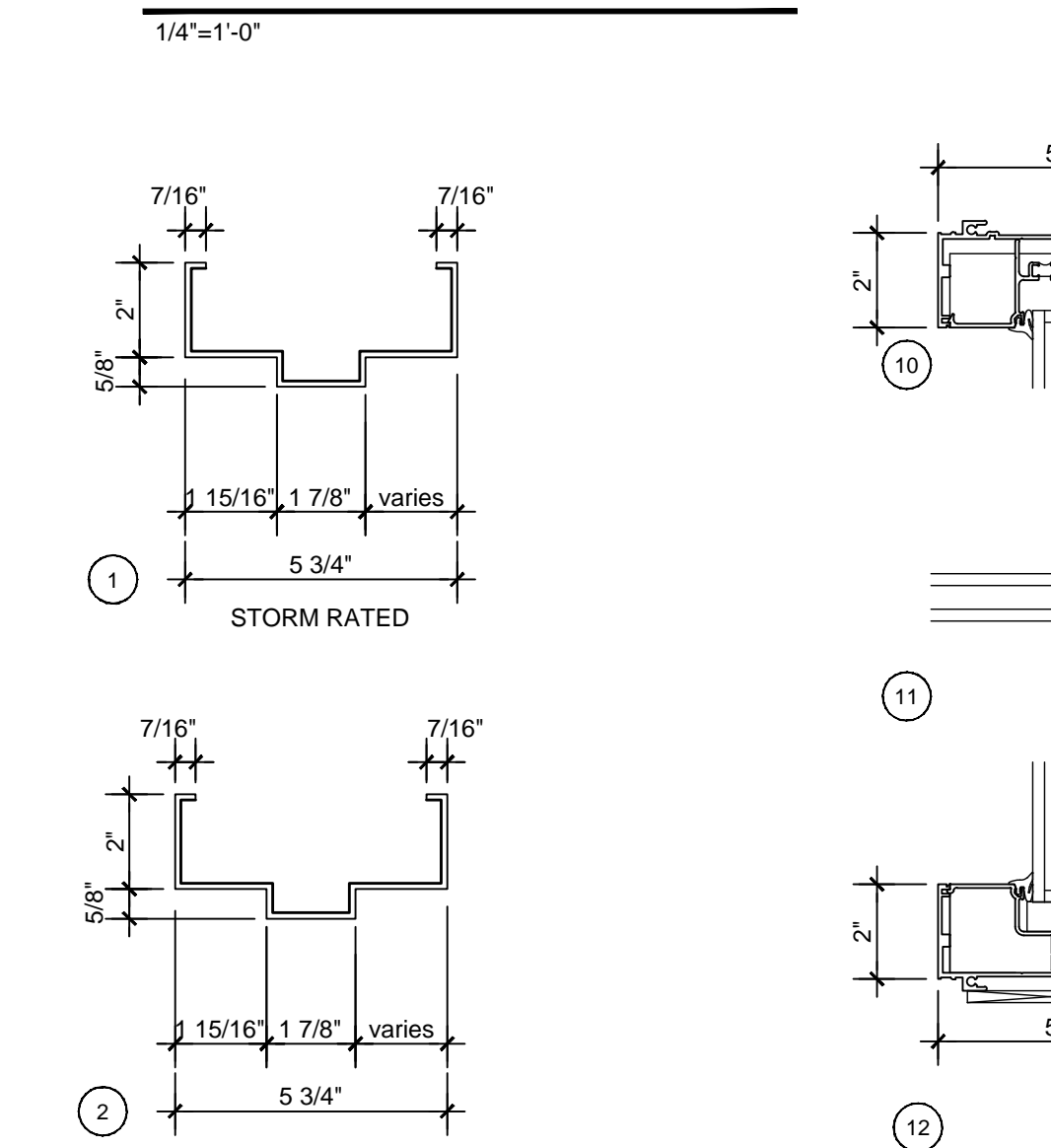
1. REFER TO ROOM FINISH SCHEDULE FOR PAINT COLORS.
2. COORDINATE KEY WITH OWNER.
3. REFER TO FLOOR PLANS FOR PARTITION TYPES



DOOR ELEVATIONS

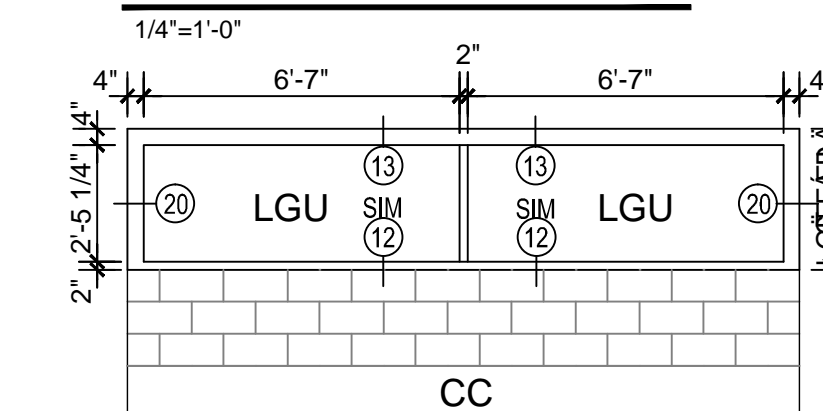


STOREFRONT ELEVATIONS

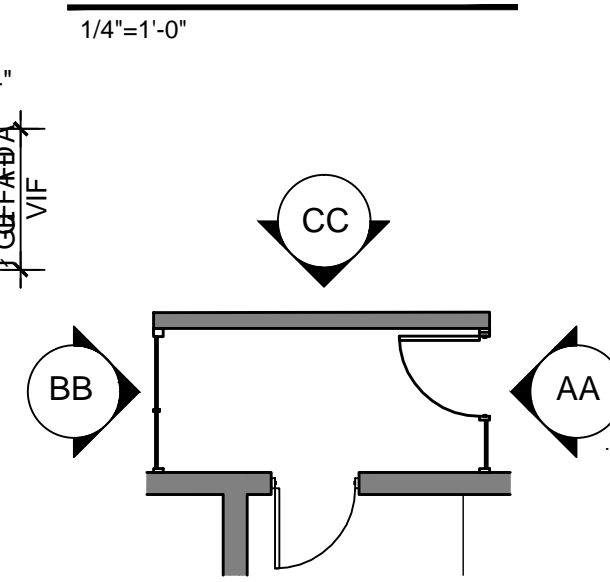


HOLLOW METAL FRAME PROFILES
3"=1'-0"

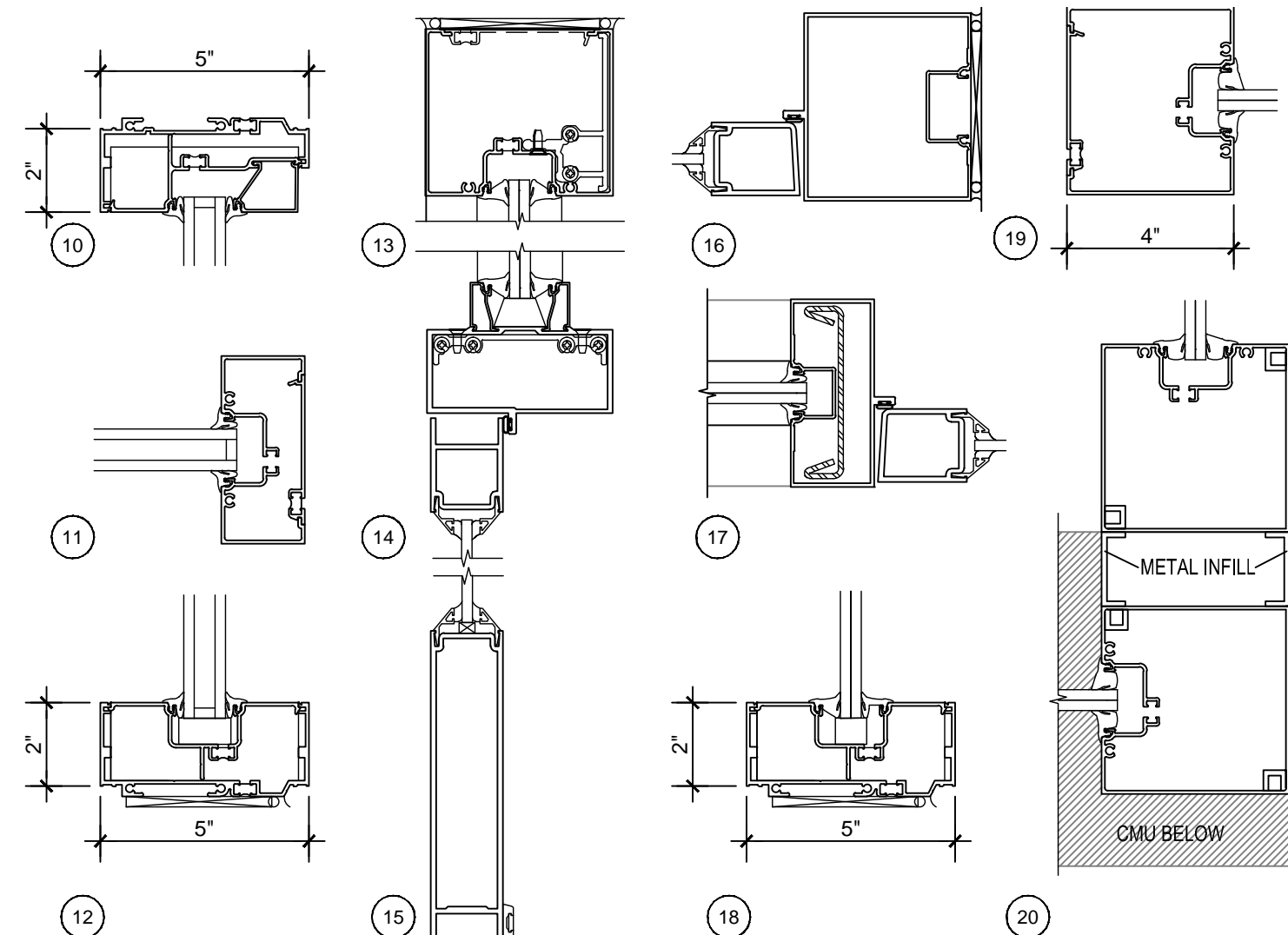
FRAME ELEVATIONS



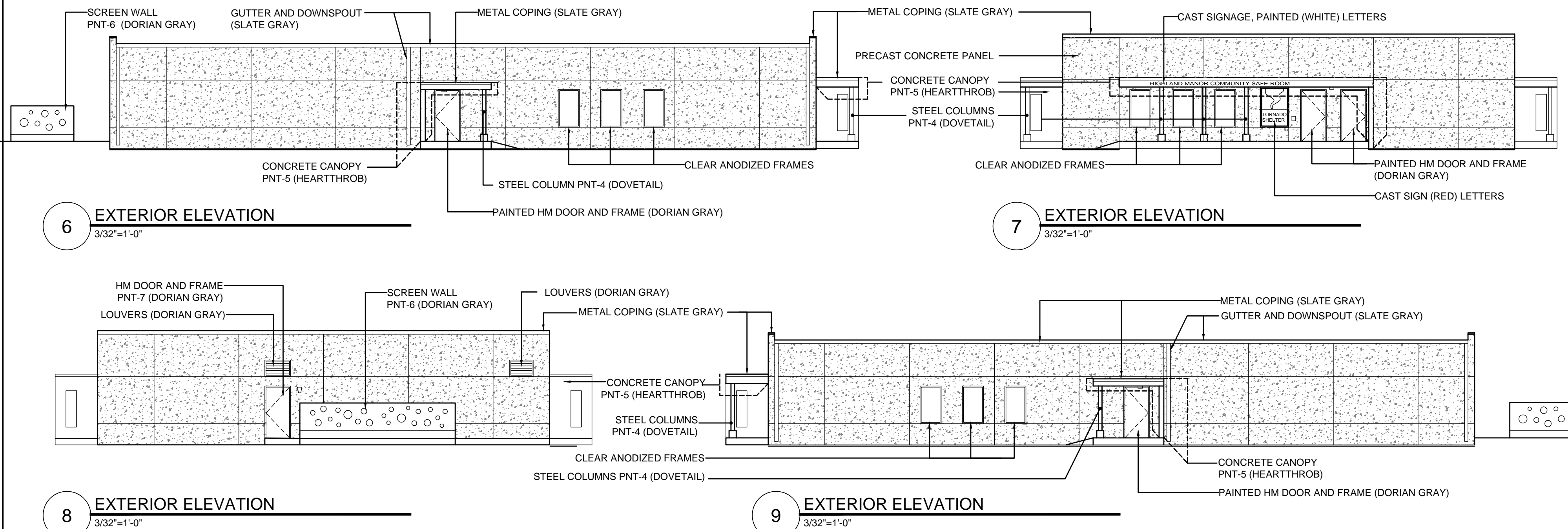
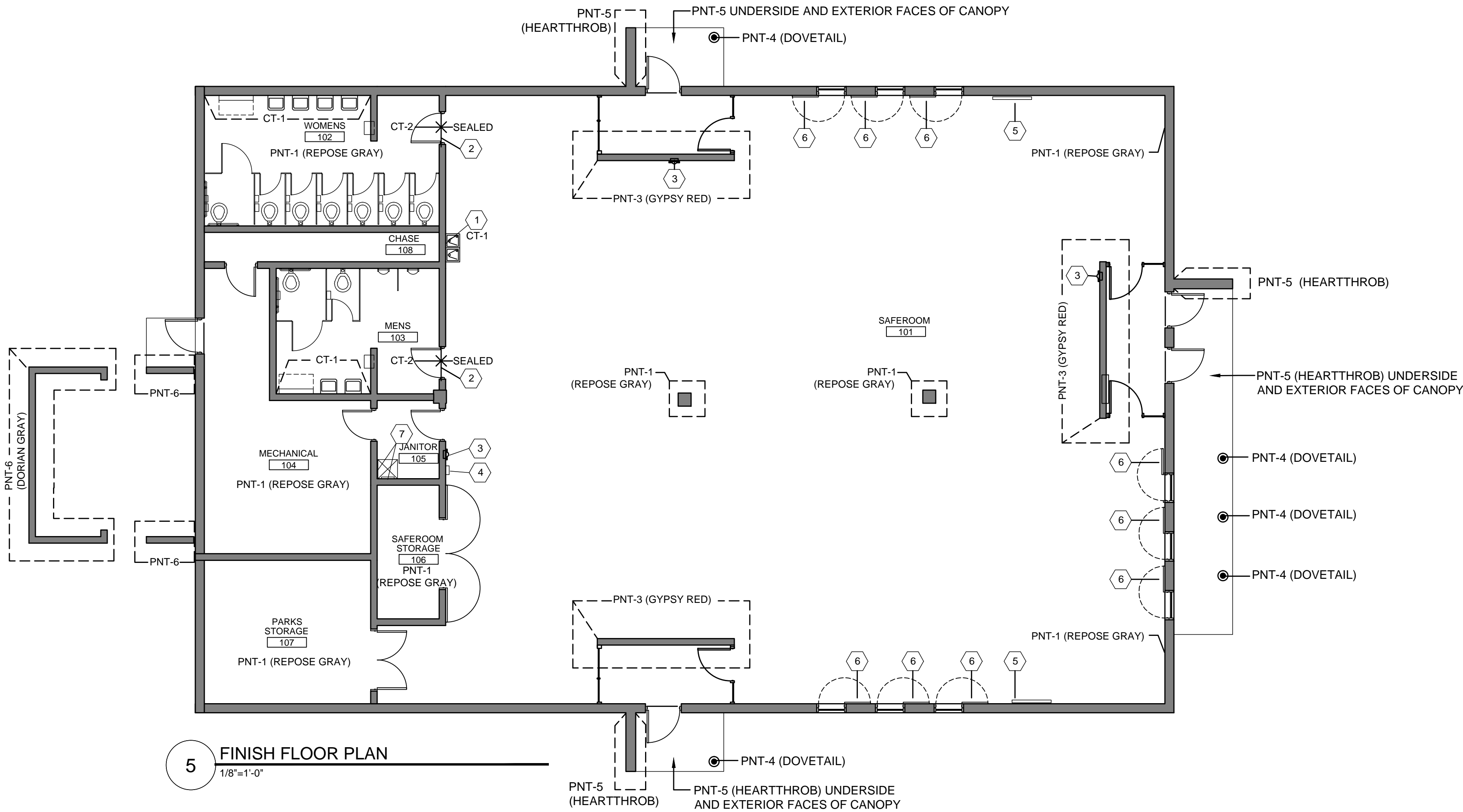
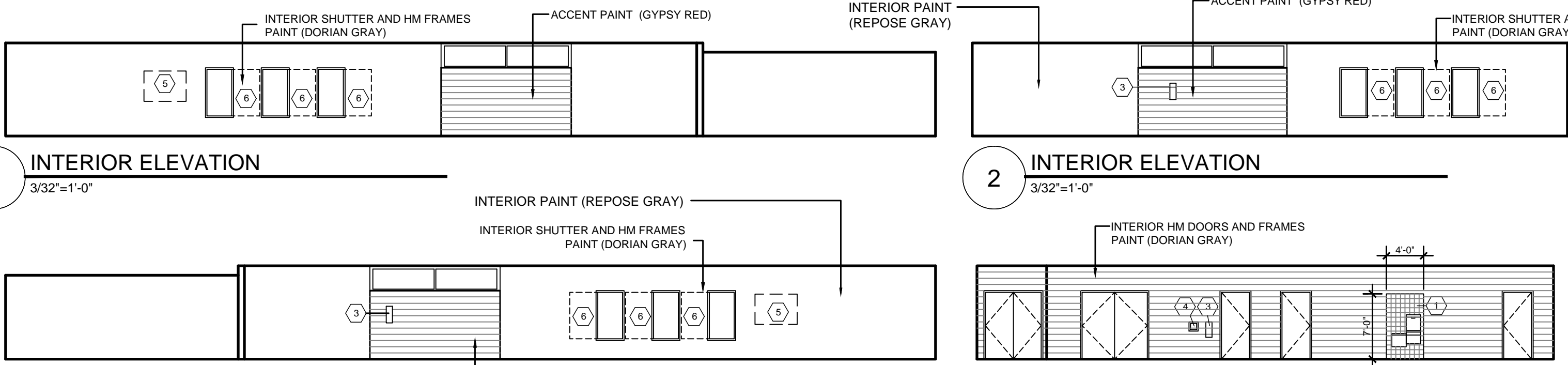
WINDOW ELEVATION



VESTIBULE PLAN KEY



STOREFRONT FRAME PROFILES
3"=1'-0"



ROOM FINISH SCHEDULE										
ROOM #	ROOM NAME	FLOOR	BASE	WALL - N	WALL - E	WALL - S	WALL - W	CEILING	CEILING HEIGHT	REMARKS
101	SAFEROOM	SEALED	-	PNT-1/PNT-3	PNT-1/PNT-3	PNT-1/PNT-3	PNT-1	APC TYPE 1	10'-6"	TILE AT D.F.
102	WOMEN'S TOILET	CT-2	CT-2	CT-1/PNT-1	PNT-1	PNT-1	PNT-1	APC TYPE 1	9'-0"	
103	MEN'S TOILET	CT-2	CT-2	PNT-1	PNT-1	CT-1/PNT-1	PNT-1	APC TYPE 1	9'-0"	
104	MECHANICAL	SEALED	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	
105	JANITOR	SEALED	-	PNT-1	PNT-1	CT-1/PNT-1	CT-1/PNT-1	PNT-2	EXPOSED	TILE AT SINK
106	SAFEROOM STOR	SEALED	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	
107	PARKS STORAGE	SEALED	-	PNT-1	PNT-1	PNT-1	PNT-1	PNT-2	EXPOSED	
108	CHASE	SEALED	-	-	-	-	-	-	EXPOSED	

FINISH PLAN NOTES:

- REFER TO ENLARGED TOILET ROOM PLANS AND ELEVATIONS.
- EXPOSED CEILING HEIGHT REFERS TO PRECAST STRUCTURAL PLANKS
- PREP AND PAINT EXTERIOR STEEL COLUMNS, PLATES AND WELD CONNECTIONS

FINISH SPECIFIC PLAN NOTES:

- WALL TILE AT DRINKING FOUNTAIN - FULL TILE SIZES, BULL NOSE EDGES
- STAINLESS STEEL TRANSITION STRIP
- FIRE EXTINGUISHER CABINET
- DEFIBRILLATOR - PROVIDED BY OWNER
- TELEVISION MONITOR - PROVIDE BY OWNER
- STORM SHUTTER - REFER TO DOOR SCHEDULE AND ELEVATIONS
- WALL TILE AT JANITOR'S SINK - FULL TILE SIZES, BULL NOTES EDGES

GENERAL ROOM FINISH NOTES:

- REFER TO REFLECTED CEILING PLAN FOR CEILING TYPES, HEIGHTS,
- CERAMIC TILE AT MOP SINK. REFER TO INTERIOR ELEVATIONS - A401
- CERAMIC TILE AT DRINKING FOUNTAINS
- PROVIDE STAINLESS STEEL TRANSITION STRIP BETWEEN DISSIMILAR FLOOR FINISHES.
- PAINT EXPOSED CONDUITS AND BOXES TO MATCH WALL COLOR
- BLOCK FILLER ON ALL INTERIOR CONCRETE SURFACES
- BLOCK FILLER AND PAINT INTERIOR CONCRETE COLUMNS
- DO NOT PAINT CONCRETE FOUNDATION SYSTEM ON BUILDING OR SCREEN WALL
- PROVIDE FULL RANGE OF COLOR SELECTIONS FOR ARCHITECT COLOR SELECTION

ROOM FINISH LEGEND:

FLOOR	SEALED CONCRETE:	SEALED:	CLEAR SEALER ON CONCRETE
	CERAMIC TILE	CT-2	2X2 MOSAIC PORCELAIN FLOOR TILES WITH INTEGRAL COVE DAL-TILE COLOR: SUEDE GRAY SPECKLE - D208 GROUT: GROUT TO MATCH TILE DARK COLOR BODY START WITH FULL TILE ABOVE COVE BASE, CUT TILES ABOVE CEILING
WALL	CERAMIC TILE	CT-1:	6X6 GLAZED WALL TILE DAL-TILE COLOR: ARCTIC WHITE - 0100 GROUT: COLOR TO MATCH TILE COLOR
	PAINT	PNT-1 PNT-3	GENERAL WALL COLOR - COLOR: SW 7015 REPOSE GRAY ACCENT PAINT COLOR - COLOR SW 6865 GYPSY RED
BASE	CERAMIC TILE	CT-2	2X2 MOSAIC PORCELAIN TILES INTEGRAL COVE BASE DAL-TILE COLOR: SUEDE GRAY SPECKLE - D208
CEILING	ACOUSTICAL PANEL CEILING PAINT EXPOSED STRUCTURE	APC-1 PNT-2	2' X4' CEILING PANELS AND GRID CEILING COLOR - 'CEILING WHITE'
EXTERIOR	COLUMNS CANOPY SCREEN WALL	PNT-4 PNT-5 PNT-6	STEEL COLUMNS AND PLATES - COLOR: SW 7018 DOVETAIL BLOCK FILL / PAINT CONCRETE CANOPY - COLOR: SW 6866 HEARTTHROB BLOCK FILL / PAINT CONCRETE SCREEN WALL -COLOR: SW 7017 DORIAN GRAY
MISC. ITEMS	EXTERIOR HOLLOW METAL DOOR AND FRAMES:	PNT-7	COLOR: SW 7017 DORIAN GRAY
	INTERIOR HM DOORS, FRAMES AND SHUTTERS	PNT-8	COLOR: SW 7017 DORIAN GRAY
	METAL COPING/ GUTTER/ DOWNSPOUT		COLOR: PAC-CLAD SLATE GRAY
	TRANSITION STRIP		Stainless steel transition strip similar to Schluter -Schiene
	ALUMINUM WINDOW	WINDOW	CLEAR ANODIZED
	CERAMIC WALL TILE	CT-1	6X6 GLAZED WALL TILE , BULL NOSE END TILES
	JANITOR/DRINKING FOUNTAIN	CT-1	DAL-TILE COLOR: ARCTIC WHITE - 0100 DIMENSIONS VARY - USE FULL TILES GROUT TO MATCH TILE COLOR
	PRECAST CONCRETE PANELS		REFER TO SPEC SECTION 03 41 50 ACID-ETCHED / LIGHTLY EXPOSED AGGREGATE FINISH 50/50 BLEND WHITE AND GRAY CEMENT
	PRECAST CONCRETE CANOPY		REFER TO SPEC SECTION 03 41 50 GRADE A FINISH - SMOOTH PAINTED SURFACE

assemblage
ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT

SHEET NAME

ROOM FINISH SCHEDULE AND PLAN



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

A701

assemblage
ARCHITECTS

7427 Elmwood Avenue
 Middleton, WI 53562
 T 608.827.5047
 F 608.827.6960

ARNOLD & O'SHERIDAN, INC.
 726 HEARTLAND TRAIL
 MADISON, WI 53717



T/ 608 821 8500
 F/ 608 821 8501 A&O PROJECT #130158

Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.

HIGHLAND MANOR COMMUNITY SAFE ROOM
 CITY OF MADISON - CONTRACT NO. 7343
 10 MANOR DRIVE
 MADISON, WISCONSIN

SHEET NAME
 STRUCTURAL GENERAL NOTES



CITY OF MADISON
 Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

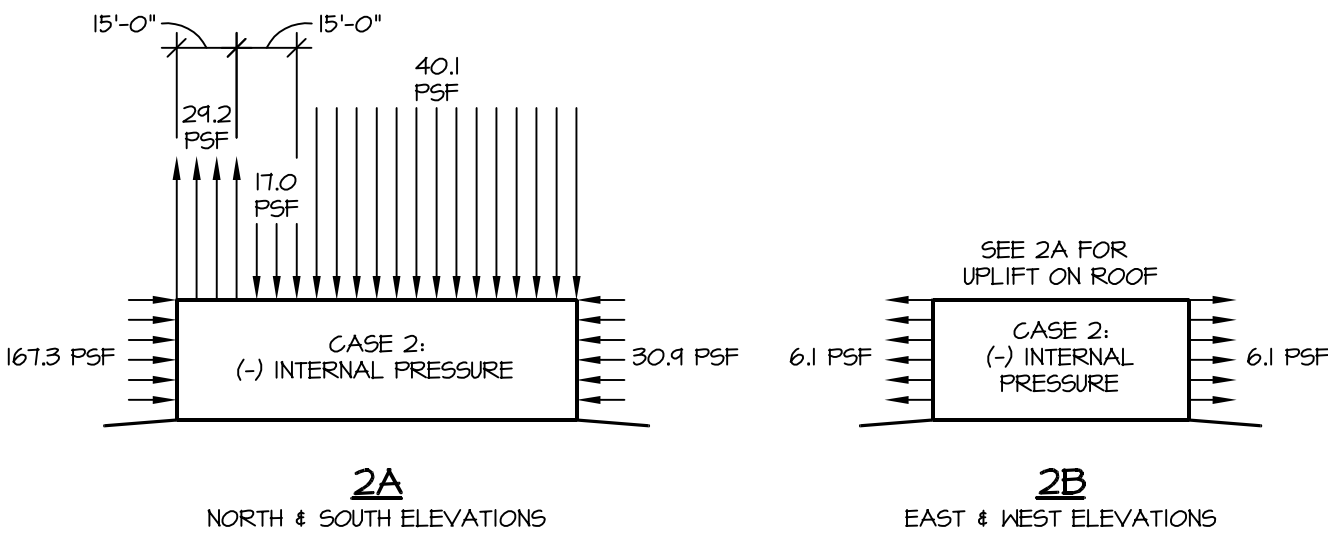
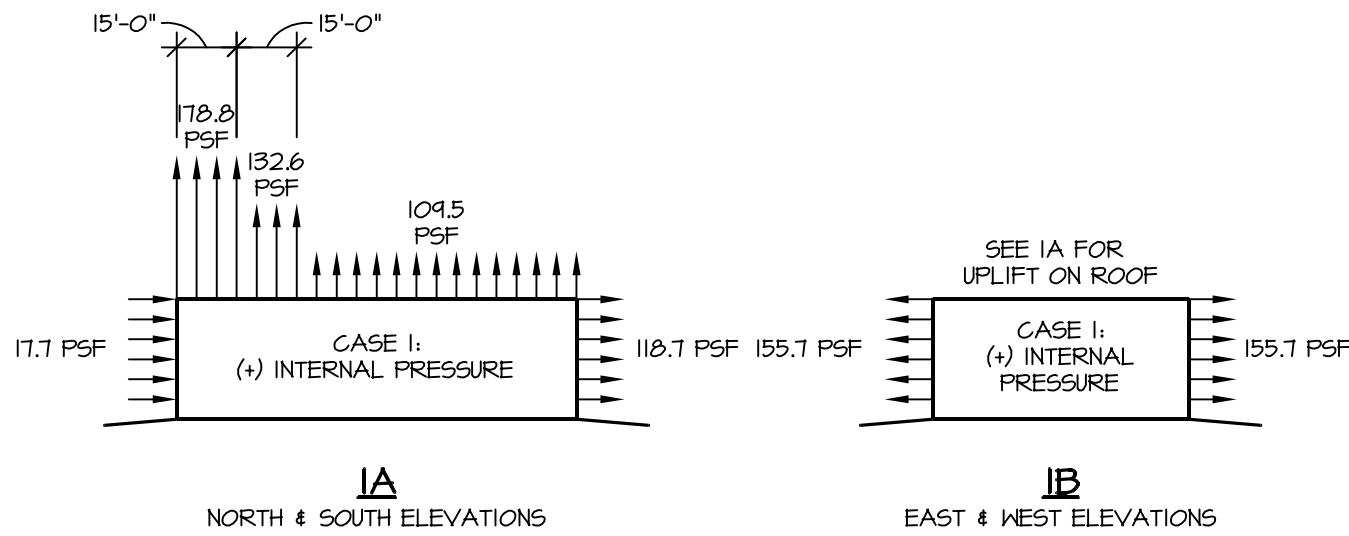
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SHEET NUMBER

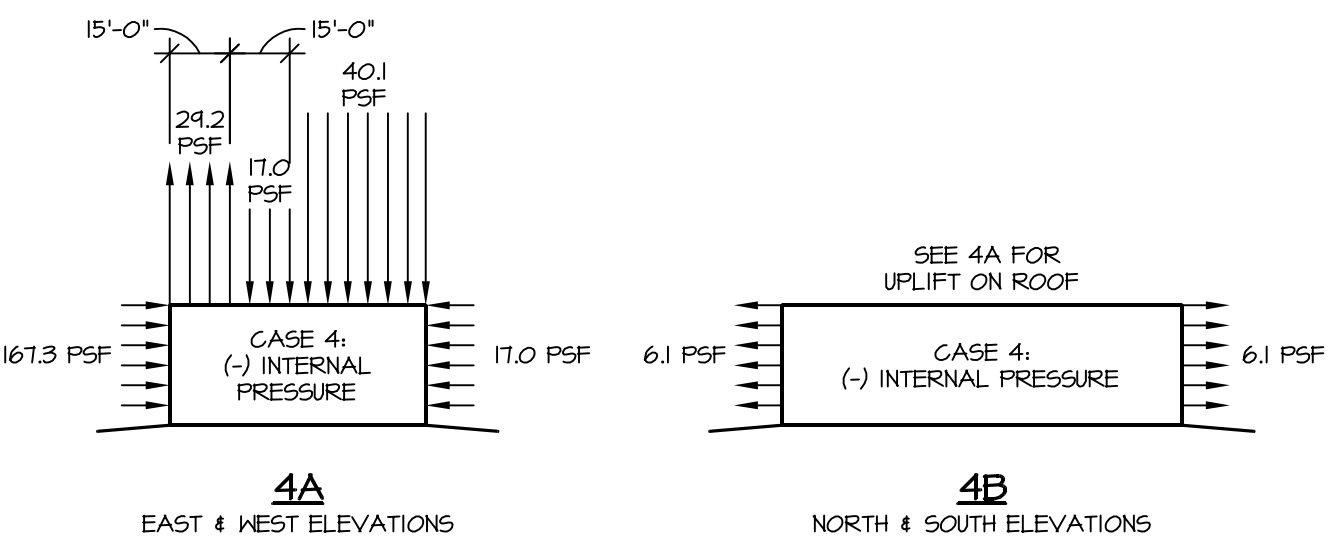
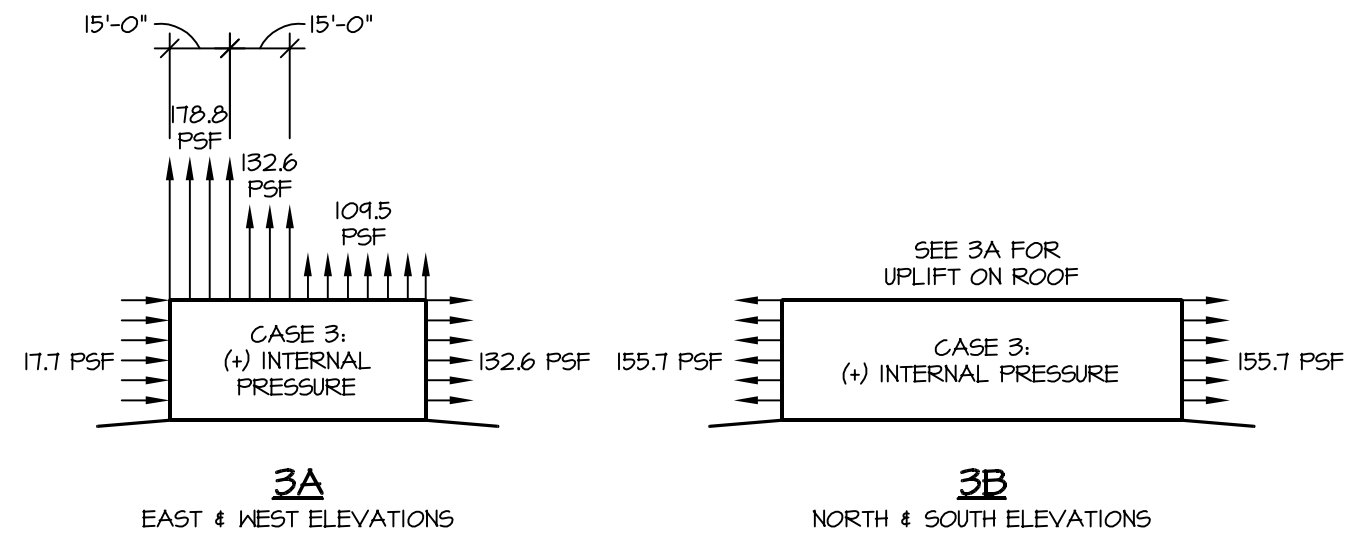
S002

WIND PRESSURES FOR MAIN WIND FORCE RESISTING SYSTEM (MWFERS)

WIND BLOWING ON SHORT DIMENSION OF BUILDING



WIND BLOWING ON LONG DIMENSION OF BUILDING



- NOTES:
 1) WIND DIRECTION IS FROM LEFT TO RIGHT IN 1A, 2A, 3A & 4A
 2) WIND DIRECTION IS INTO THIS SHEET IN 1B, 2B, 3B & 4B
 3) SEE FEMA P-361 FOR ALLOWABLE CHANGES TO ASCE 7-05 LOAD COMBINATIONS WHEN USING THESE WIND LOADS.

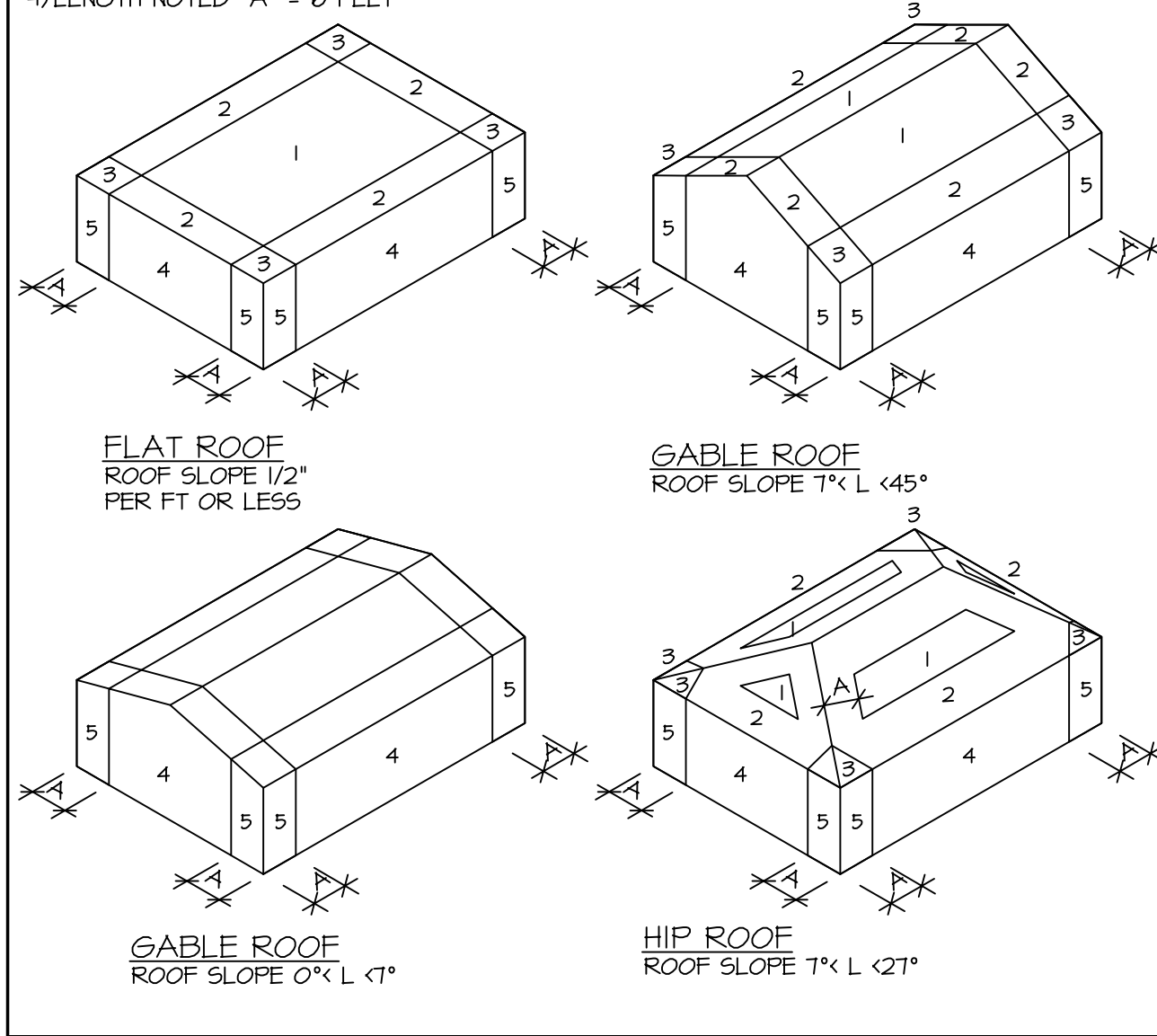
COMPONENTS AND CLADDING WIND PRESSURES (PSF)

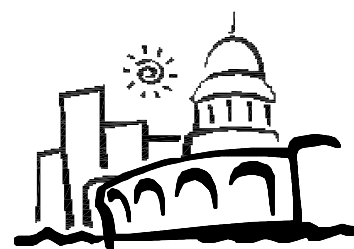
ZONE	WIND AREA (SF)	ROOF SLOPE		ZONE	WIND AREA (SF)	WALLS	
		0° TO 7°				(+)	(-)
		(+)	(-)				
1	10	115.4	-210.5	4	10	196.9	-209.2
1	20	111.4	-206.4	4	20	190.4	-202.7
1	50	106.0	-201.0	4	50	181.9	-194.1
1	100	101.9	-196.9	4	100	175.4	-187.6
2	10	115.4	-319.2	5	10	196.9	-245.0
2	20	111.4	-290.6	5	20	190.4	-232.8
2	50	106.0	-252.7	5	50	181.9	-215.7
2	100	101.9	-224.1	5	100	175.4	-202.7
3	10	115.4	-455.0				
3	20	111.4	-385.5				
3	50	106.0	-293.6				
3	100	101.9	-224.1				

(-) WIND PRESSURE ON ROOF OVERHANGS

LOCATION	WIND AREA (SF)	ROOF SLOPE	
		0° TO 7°	
		ZONES 1 & 2	ZONE 3
OVERHANG	10	-230.9	-300.3
OVERHANG	20	-226.0	-290.5
OVERHANG	50	-221.4	-190.4
OVERHANG	100	-217.3	-100.7

- NOTES:
 1) BASED ON ASCE 7-05 METHOD 2 - ANALYTICAL PROCEDURE, COMPONENTS AND CLADDING FOR BUILDING WITH h, < 60 FT FOR DESIGN WIND SPEED AND CRITERIA AS LISTED ELSEWHERE ON THIS SHEET, S001.
 2) (+) = POSITIVE (INWARD) PRESSURE.
 (-) = NEGATIVE (OUTWARD) PRESSURE.
 SF = SQUARE FEET
 3) FOR EFFECTIVE MEMBER AREAS NOT SPECIFICALLY LISTED, INTERPOLATE OR USE LARGEST VALUE OF WIND PRESSURE/SUCTION NOTED. DO NOT USE 1/3 STRESS INCREASE FOR MEMBER DESIGN WITH VALUES NOTED IN THIS TABLE.
 4) LENGTH NOTED "A" = 6 FEET



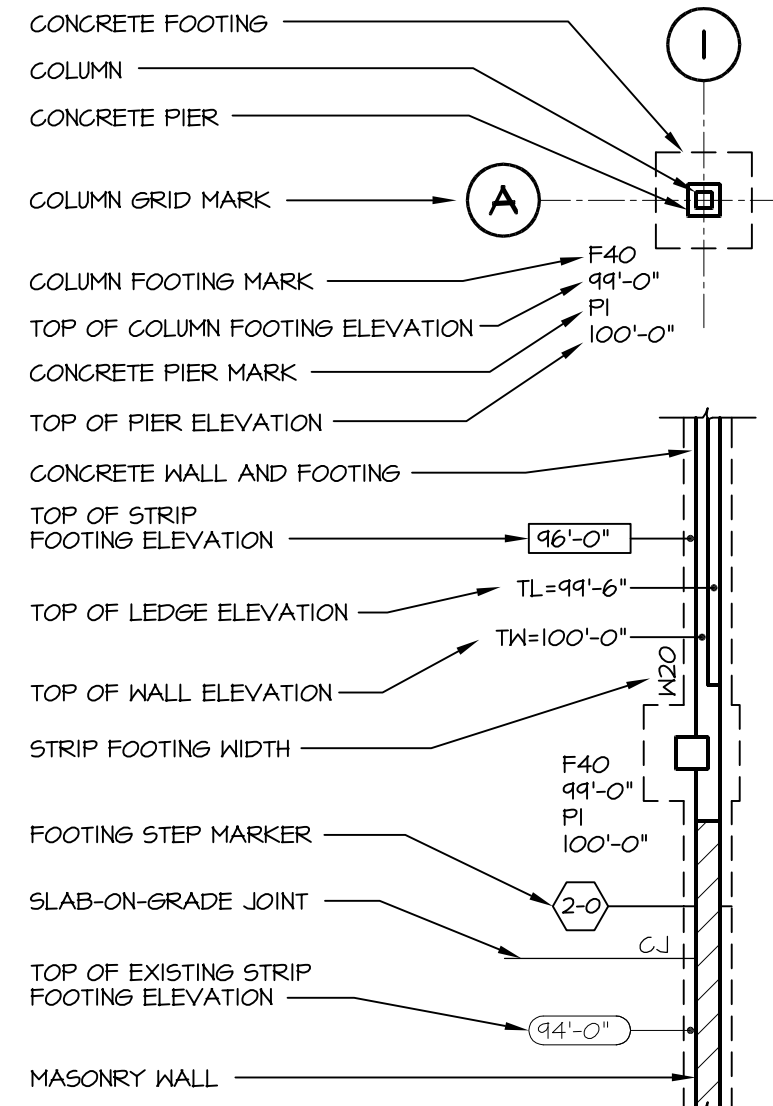


FOOTING SCHEDULE			
MARK	FOOTING DIMENSIONS	FOOTING REINFORCEMENT (SEE NOTES 1 AND 2)	REMARKS
K23	2'-3"x12"xCONT	(2) #5 CONT LONG #5 VERT DWLS AT 18" OC	SEE 12/5800, TYP
K36	3'-6"x12"xCONT	(5) #4 CONT LH #4 AT 8" OC SW	
K60	6'-0"x15"xCONT	#5 AT 8" OC SW (8) #5 LH	SEE 11/5800
F1	16'-0"x4'-0"x12"	(8) #4 EH T4B	
F2	9'-0"x4'-0"x18"	(15) #5 SW T4B, (8) #4 LH T4B	
F40	4'-0"x4'-0"x12"	(8) #4 EH T4B	
F40	9'-0"x9'-0"x21"	(15) #5 EH T4B	

NOTES:

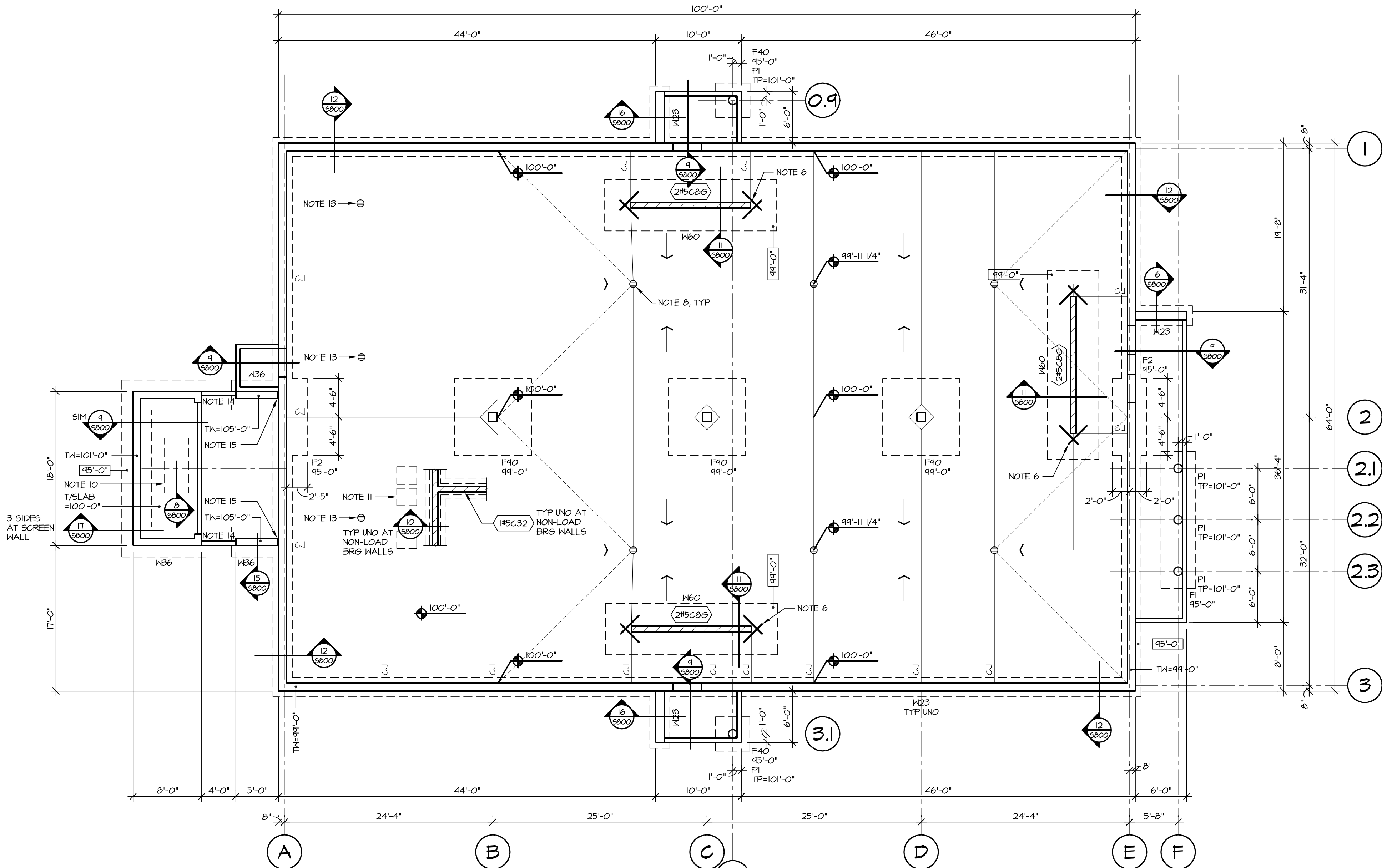
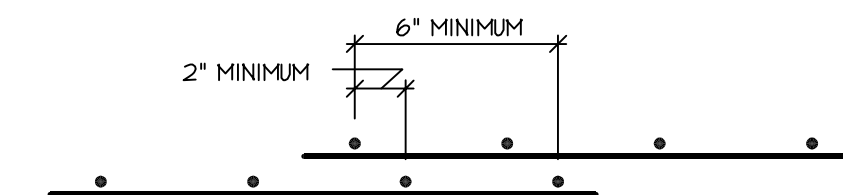
- B = BOTTOM, T = TOP, LH = LONG WAY, SW = SHORT WAY, EH = EACH WAY.
- ALL REINFORCEMENT BARS TO BE BOTTOM BARS UNLESS NOTED OTHERWISE.

FOUNDATION LEGEND



REINFORCEMENT NOTES

- REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI DETAILING MANUAL 318-08.
- ALL LAPS SHALL BE CLASS 'B' PER ACI 318 UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS OR UNLESS THE DETAILER TAKES SPECIAL CARE TO PROVIDE STAGGERED LAPS, USE TOP BAR LAP LENGTHS FOR ALL HORIZONTAL WALL BARS AND FOR TOP BARS IN SLABS AND BEAMS OVER 14" DEEP.
- LAP LENGTH SHALL BE SPECIFICALLY NOTED ON PLACING DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.
- HORIZONTAL BARS, EXCEPT FOR CONTINUOUS STRINGS FROM ONE CORNER OR AN OPENING TO ANOTHER, SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OF WALL.
- PLAIN WELDED WIRE FABRIC SHALL BE LAPPED AND/OR ANCHORED TO DEVELOP f_y PER ACI 318.

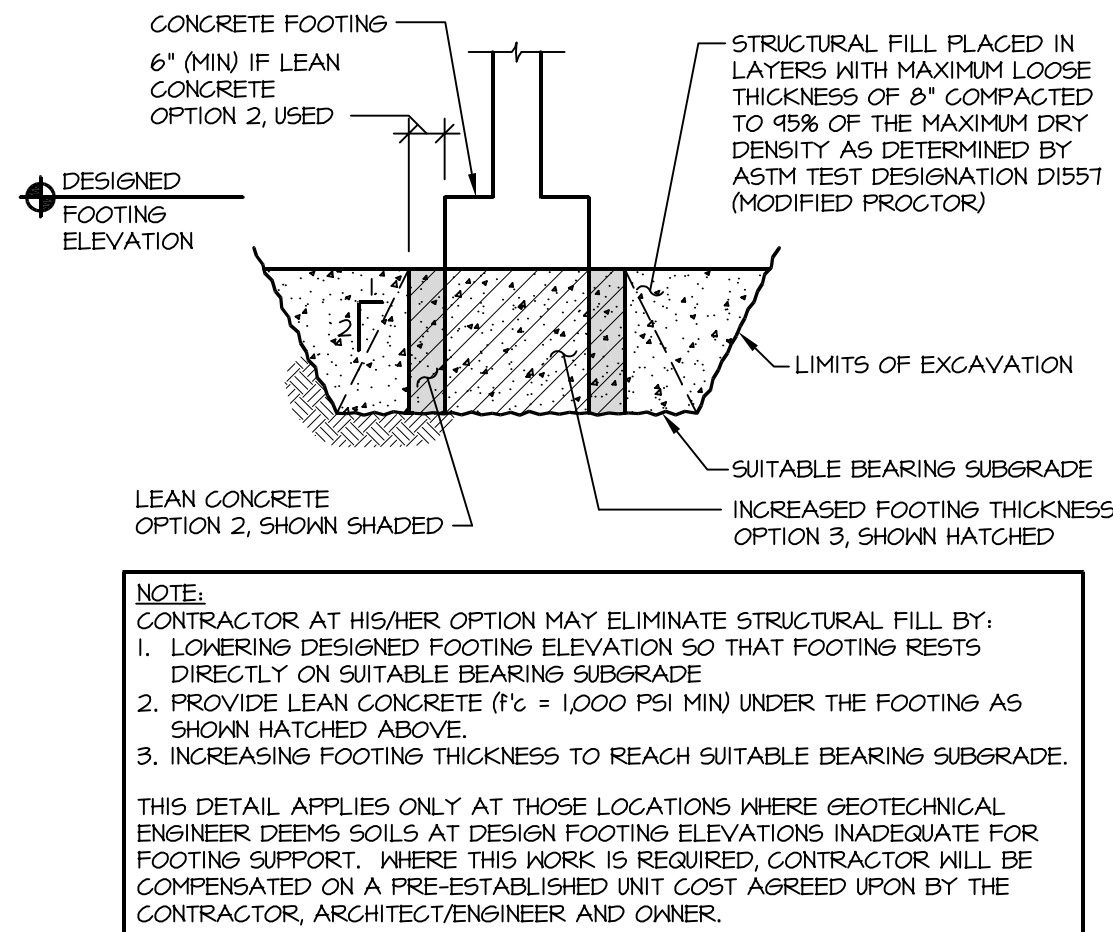


1 FOUNDATION PLAN

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

NOTES:

- FINISH SLAB ELEVATION = 100'-0" LOCAL DATUM AT LOCATIONS INDICATED ON PLAN, WITH SLAB SLOPED DOWN TO FLOOR DRAINS, TYP. TOP OF FOOTING ELEVATION = 45'-0" UNLESS NOTED OTHERWISE.
- SLAB-ON-GRADE TO BE 5 1/2" THICK AT HIGH POINTS, TAPERING DOWN TO 4 3/4" MINIMUM AT LOW POINTS PER SLOPES INDICATED. REINFORCE WITH WWP 6x6/1/2-3/4x1/2-4 ON 15 MIL VAPOR BARRIER ON 6" COMPACTED, FREELY DRAINING GRANULAR BASE COURSE.
- TYPICAL WHERE SLAB-ON-GRADE ABUTS WALL OR COLUMN, PROVIDE 1/4" x (50G DEPTH) ISOLATION FILLER STRIP. SET STRIP 1/2" BELOW FINISH SLAB ELEVATION.
- OVER-EXCAVATION PER DETAIL 2/5201 MAY BE REQUIRED TO REMOVE EXISTING UNDOCUMENTED FILL AND UNSUITABLE BEARING SOIL.
- SEE DETAIL 3/5201 FOR TYPICAL FOUNDATION WALL DRAINAGE AND BACKFILL.
- (2) #4x3'-0" ACROSS CORNERS AT END OF WALLS, TYPICAL.
- TYPICAL DETAILS THAT APPLY TO PLAN INCLUDE:
 - 1/5800 SLAB-ON-GRADE JOINT DETAIL
 - 2/5800 CONCRETE WALL JOINT DETAIL
 - 3/5800 CORNER REINFORCEMENT DETAIL
 - 4/5800 CORNER REINFORCEMENT DETAIL
 - 5/5800 ADDED REINFORCEMENT AT SLAB OPENINGS
 - 6/5800 PIPE PASSING UNDER CONTINUOUS WALL FOOTING
 - 9/5800 STOOP DETAIL
- FLOOR DRAIN. SEE 5/5800 FOR ADDITIONAL REINFORCEMENT REQUIRED. SEE PLUMBING DRAWINGS FOR ADDITIONAL FLOOR DRAINS AT RESTROOMS AND MECHANICAL ROOMS NOT SHOWN.
- PROVIDE 3 1/2" THICK HOUSEKEEPING PAD UNDER WATER SOFTENER. COORDINATE WITH PLUMBING.
- GENERATOR EQUIPMENT PAD. COORDINATE WITH ELECTRICAL DRAWINGS.
- PROVIDE STEEL FRAME STANDS AT FURNACE PER DETAIL 12/5801. VERIFY SIZE AND LOCATION(S) WITH HVAC DRAWINGS.
- APPROVED SLEEVES, CONDUITS OR PIPES THROUGH SLABS AND WALLS SHALL BE PLACED SO THAT THEY ARE NO CLOSER THAN (3) DIAMETERS ON CENTER AND THEY DO NOT DISPLACE REINFORCEMENT.
- PROVIDE SLOPE DOWN TO FLOOR DRAIN USING PRE-FORMED 'DISH' UNIT.
- 6" CONCRETE WALL SIMILAR TO DTL 4/5800.
- 1" GAP BETWEEN CAST-IN-PLACE WALL AND PRECAST WALL PANEL ABOVE ELEVATION = 94'-0".

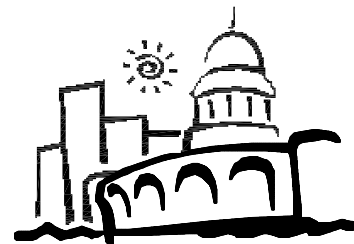


2 OVER-EXCAVATION DETAIL

SCALE: NONE

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SHEET NAME
ROOF FRAMING PLAN



CITY OF MADISON
Contract: 7343

REVISION DATE

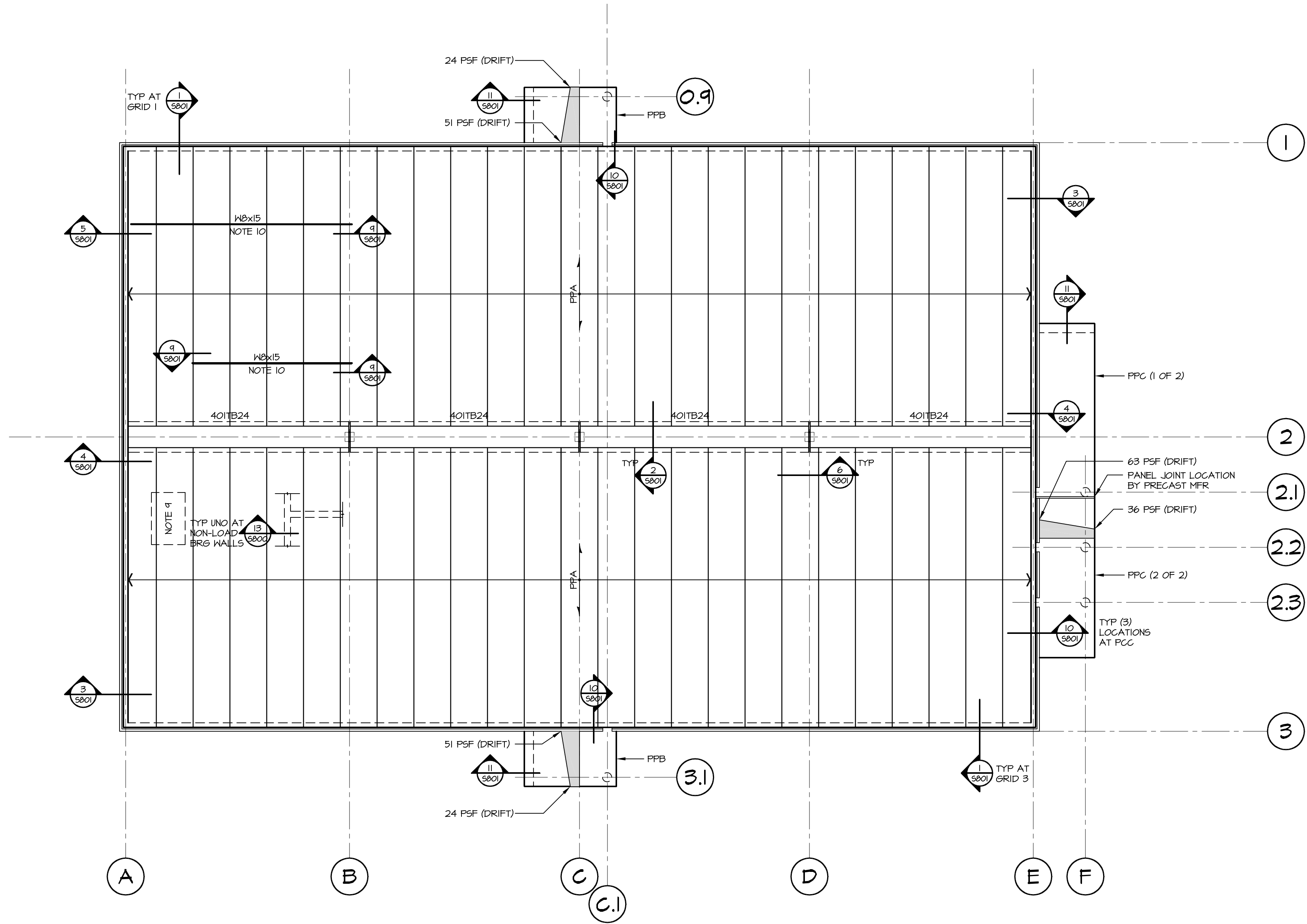
PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

S202



1
S202 **ROOF FRAMING PLAN**

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

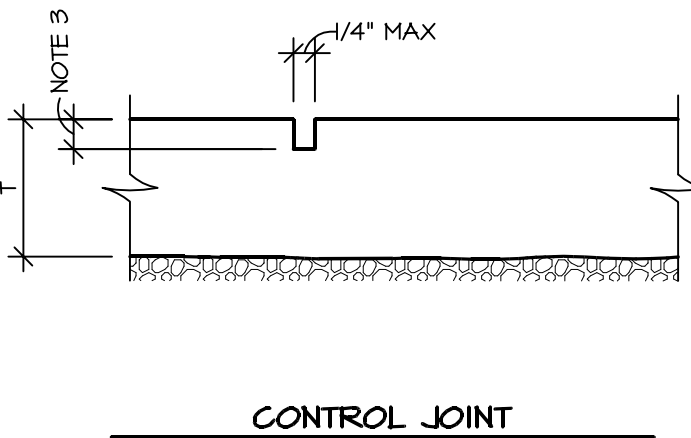
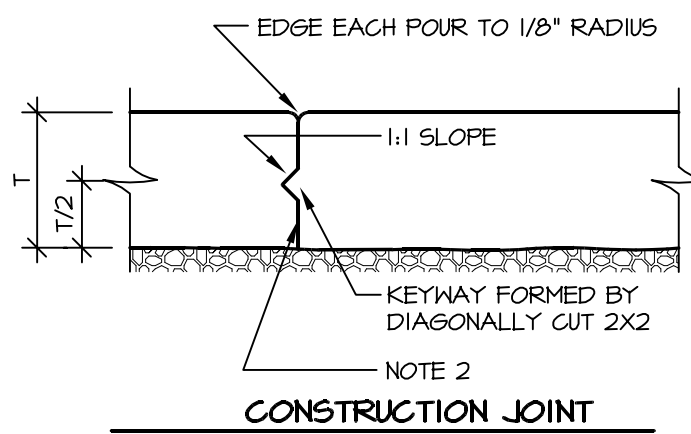
NOTES:

- 1) TOPPING SLAB FINISH SLAB ELEVATION = VARIES. SEE ARCHITECTURAL DETAILS. REINFORCE TOPPING PER NOTE 2.
- 2) TOPPING SLAB TO BE REINFORCED WITH #4 AT 12" OC CENTERED IN SLAB. PLACE EAST-NEST BARS FIRST (LOWER LAYER OF REINFORCEMENT).
- 3) TOPPING SLAB IS TO BE UNBONDED. THE SLAB THICKNESS SHALL BE MEASURED AT THE ENDS OF THE PLANK SPAN. THE ACTUAL TOPPING SLAB THICKNESS WILL VARY DUE TO PLANK CAMBER AND DEFLECTION. TOPPING SLAB HEIGHT IS IN ADDITION TO THE SUPERIMPOSED LOADS REQUIRED BY DESIGN. NO REDUCTION OF TOPPING SLAB LOAD DUE TO PLANK CAMBER IS PERMITTED.
- 4) SUPPORTING STRUCTURAL FRAMING PROVISIONS ARE BASED ON THE FOLLOWING ASSUMED MAXIMUM PRECAST PLANK SELFHEIGHTS:
12" PLANK: 85 PSF
4" TOPPING SLAB 50 PSF (INCLUDING REINFORCEMENT)
- 5) PRECAST PLANK SUPPLIER IS RESPONSIBLE FOR DESIGN, FABRICATION AND INSTALLATION OF ALL HEADERS WHERE REQUIRED FOR OPENINGS THROUGH PLANK UNLESS NOTED OTHERWISE. COORDINATE SIZE AND LOCATION OF ALL OPENINGS THROUGH PLANK WITH ARCHITECTURAL, PLUMBING AND MECHANICAL PLANS.
- 6) AT EVERY OTHER PLANK BEARING, PROVIDE WELD PLATE CONNECTION PER DETAILS 1 & 2/S&OI NEAR END OF PLANK.
- 7) BRACE TOP OF NON-LOAD BEARING CMU WALLS IN ACCORDANCE WITH DETAIL 15/S&OI.
- 8) PRECAST MFR TO DETERMINE SIZE OF SQUARE COLUMNS AT GRID LINE B-2, C-2 AND D-2.
- 9) CEILING MOUNTED HEAT RECOVERY VENTILATOR (HRV) WITH AN APPROXIMATE UNIT HEIGHT OF 450 LBS TO BE HUNG FROM CLIPS ANCHORED INTO UNDERSIDE OF PRECAST HOLLOWCORE PLANK. COORDINATE WITH HVAC PLANS AND HRV SUPPLIER FOR MOUNTING DETAILS.
- 10) B/STEEL = ABOVE CEILING HEIGHT. COORDINATE WITH ARCH. PROVIDE HOLES IN BOTTOM FLANGE ON ONE SIDE OF BEAM FOR 3/8" DIA THREADED RODS TO BE USED FOR HANGING CEILING MOUNTED TOILET PARTITIONS. COORDINATE WITH PARTITION MFR.

PRECAST PLANK SCHEDULE						
MARK	PLANK THICKNESS (INCHES)	TOPPING SLAB THICKNESS (IN) (SEE NOTE 1)	FIRE RATING REQUIREMENT (HOURS)	SUPERIMPOSED LOADS (PSF)		REMARKS
				DEAD LOAD	LIVE LOAD	
PPA	12"	4"		PER S&OI		NOTE 1
PPB	SOLID PRECAST PLANK AT CANOPIES. SEE ARCH FOR DIMENSIONS, INCLUDING SLOPES AND CURBS			PER S&OI		NOTES 2, 3
PPC						

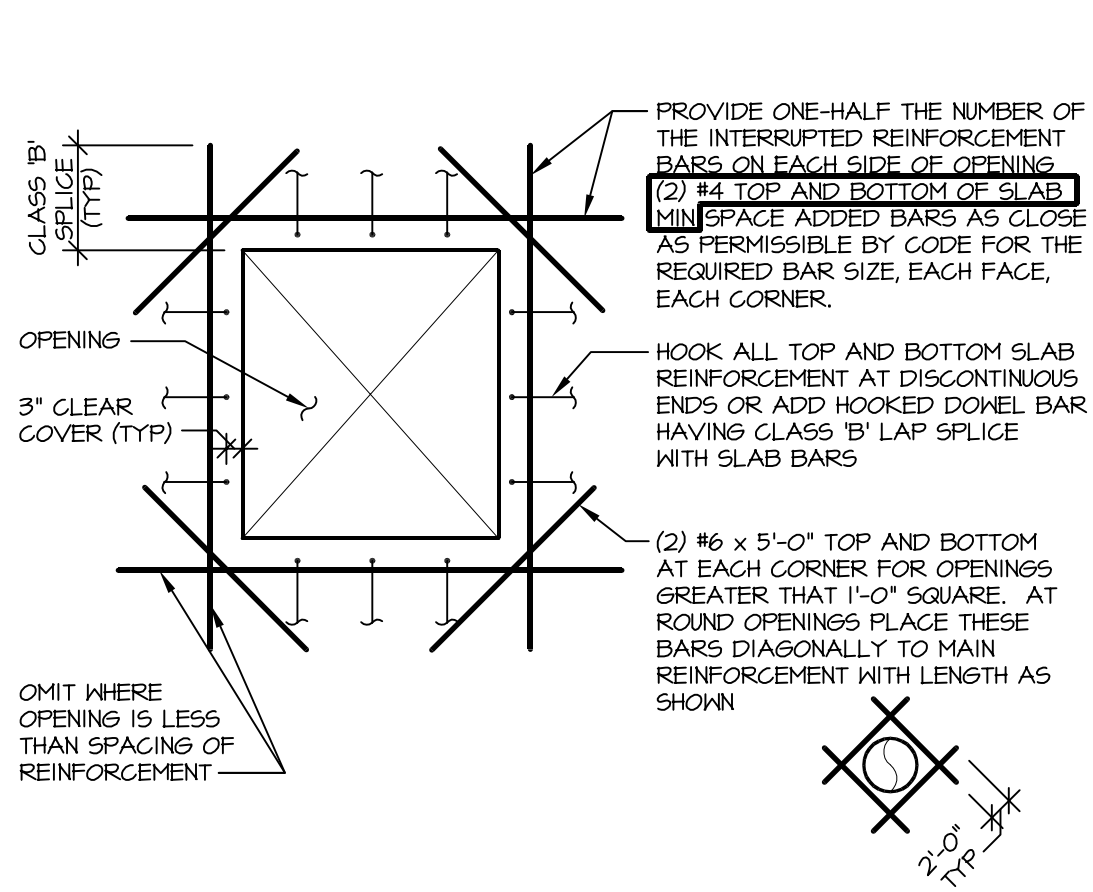
NOTES:

- 1) HOLLOWCORE PLANK
- 2) SEE 1/5202 FOR SNOW DRIFT IN ADDITION TO S&OI FOR LOADS.
- 3) COORDINATE REQUIRED BLOCKOUTS FOR CANOPY LIGHTING WITH ELECTRICAL.



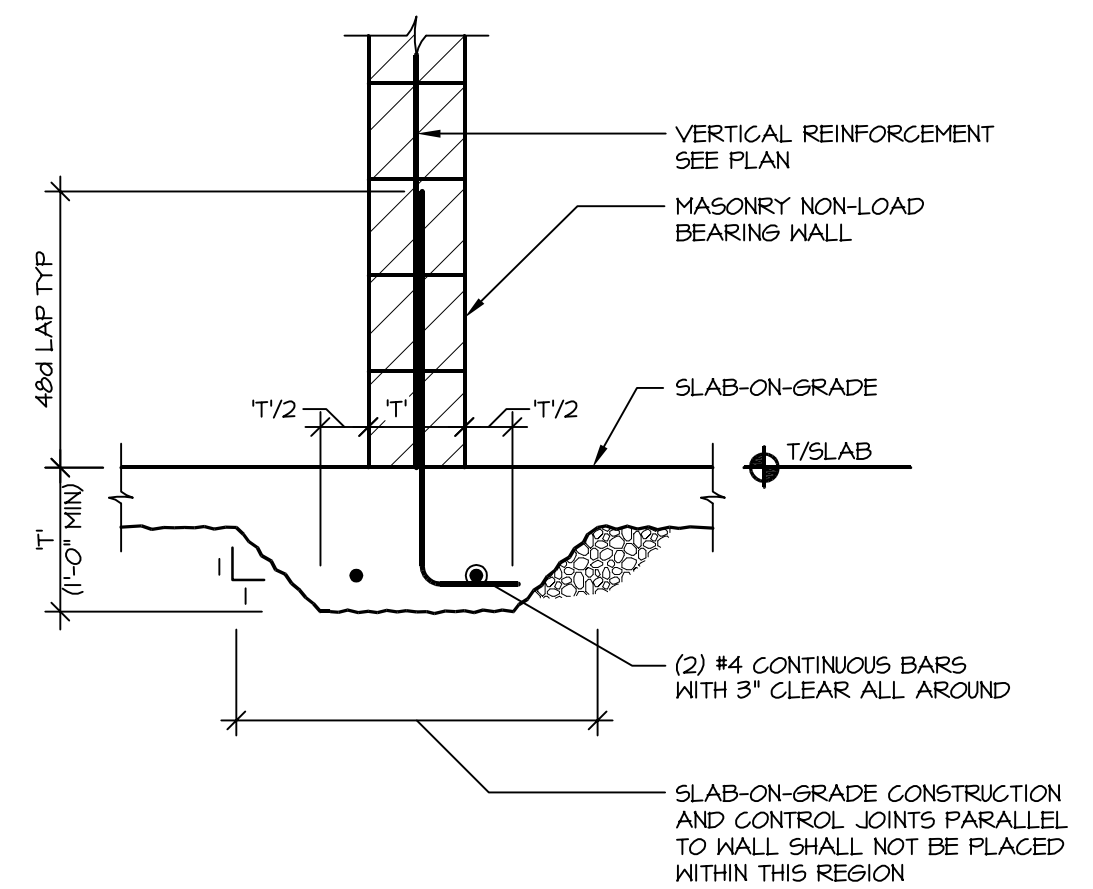
1 TYPICAL CONSTRUCTION AND CONTROL JOINTS FOR SLAB-ON-GRADE

SCALE: NONE



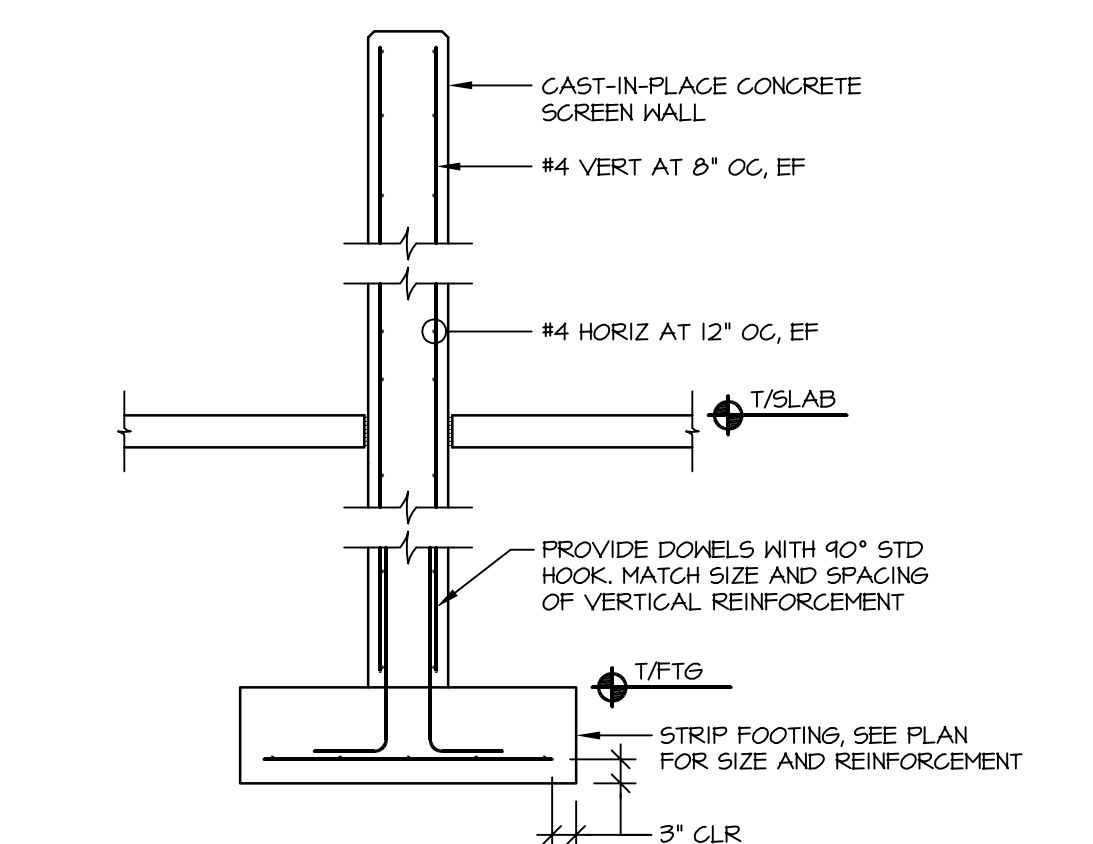
5 ADDED REINFORCEMENT AT SLAB OPENINGS

SCALE: NONE



10 THICKENED SLAB FOR NON-LOAD BEARING WALLS

SCALE: 3/4\"/>



15 FOUNDATION WALL AT CAST-IN-PLACE PANELS AT MECH SCREEN

SCALE: 1/2\"/>

- GENERAL NOTES**
- 1) 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.
 - 2) REFER TO THE GENERAL NOTES, THE SPECIFICATION, AND THE DRAWINGS FOR SUB-FLOOR DRAINAGE SYSTEM, SUBGRADE PREPARATION, AND/OR HD SLAB AND VAPOR RETARDER REQUIREMENTS.
 - 3) THE SUBGRADE SHALL BE FREE OF STANDING WATER AT THE TIME OF CONCRETE PLACEMENT.
 - 4) SEE PLANS FOR SLAB THICKNESS (T) AND REINFORCEMENT (W/VE OR REINFORCEMENT BARS). SEE SPECIFICATIONS FOR FIBER REINFORCEMENT TO BE INCORPORATED IN CONCRETE MIX, IF ANY. WHERE PRESENT, REINFORCEMENT BARS SHALL BE CHAIR BY SOIL SUPPORTED SLAB BOLSTERS.
 - 5) PROVIDE (2) #5x6'-0\"/>

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

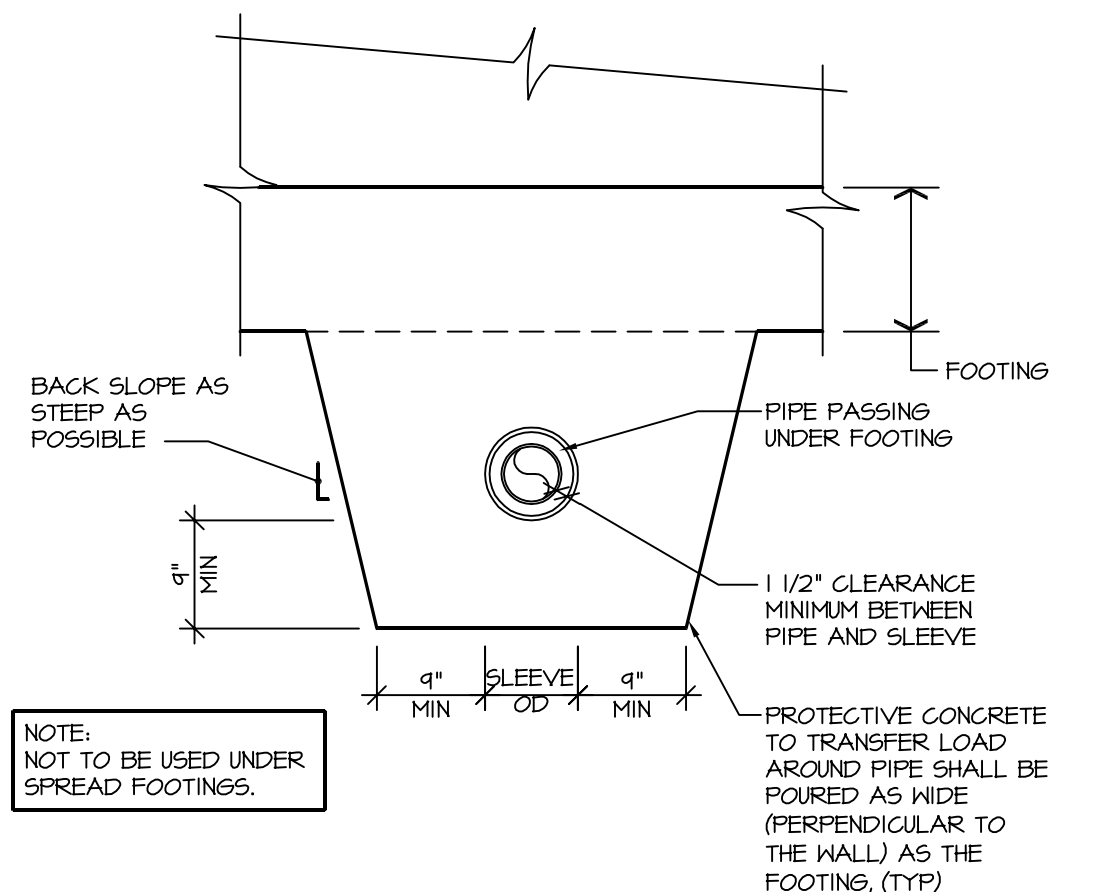
- JOINT SPACING NOTES**
- 1) UNLESS SHOWN OTHERWISE ON THE DRAWINGS, PROVIDE CONTROL AND/OR CONSTRUCTION JOINTS AT EVERY COLUMN LINE AND IN BETWEEN THE COLUMNS SUCH THAT THE JOINT SPACING DOES NOT EXCEED 36 x (T) UNLESS SHOWN OTHERWISE. THE RESULTING PANELS SHOULD BE APPROXIMATELY SQUARE.

- CONTROL JOINT NOTES**
- 1) FOR SAW-CUT CONTROL JOINTS, MAKE THE SAW-CUT AS SOON AS THE SLAB IS ABLE TO SUPPORT THE HEIGHT OF WORKERS AND SAVING EQUIPMENT WITHOUT DAMAGE TO THE FINISHED SURFACE OF THE SLAB, BUT WITHIN 24 HOURS.
 - 2) DEPTH OF SAWCUT SHOULD BE 1/4\"/>

- FORMED CONTROL JOINT OPTION NOTES**
- 1) 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.
 - 2) TOOL THE SLAB EDGES ROUND ON EACH SIDE OF THE INSERT, 1/8\"/>

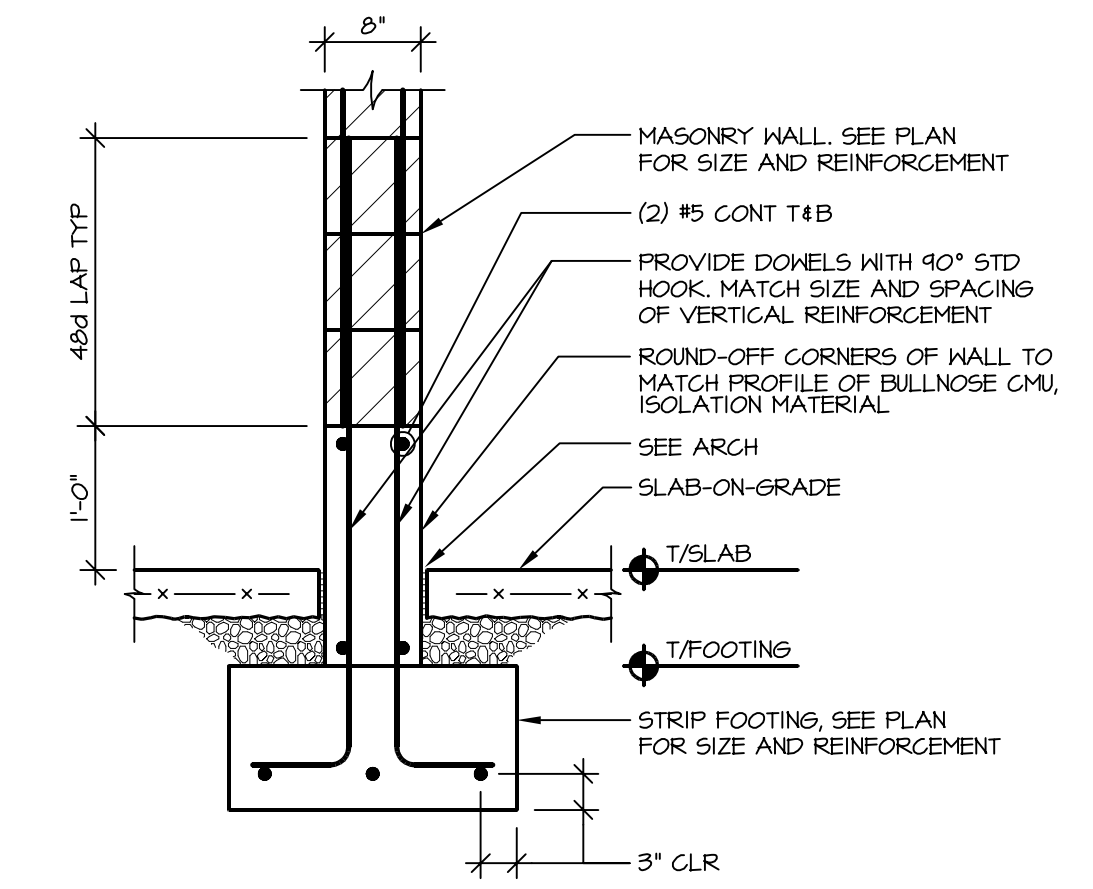
2 TYPICAL CONCRETE WALL JOINTS

SCALE: NONE



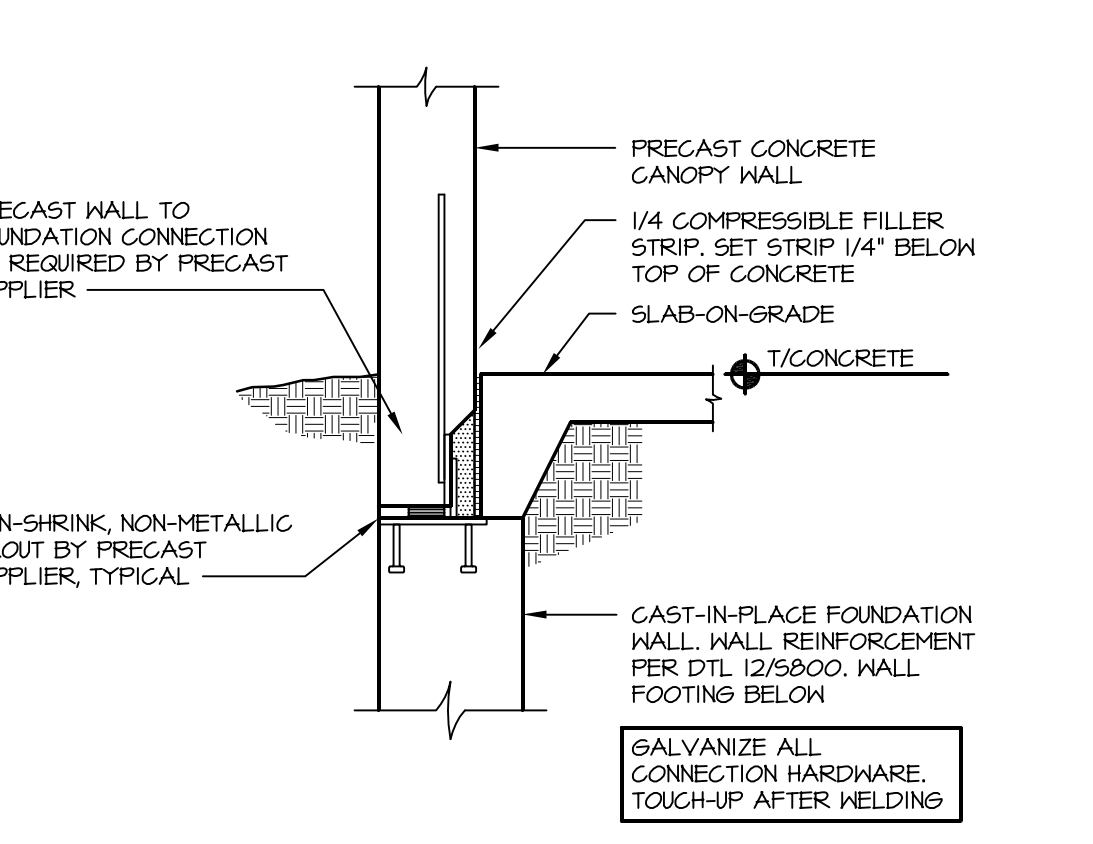
6 PIPE PASSING UNDER CONTINUOUS WALL FOOTING

SCALE: 3/4\"/>



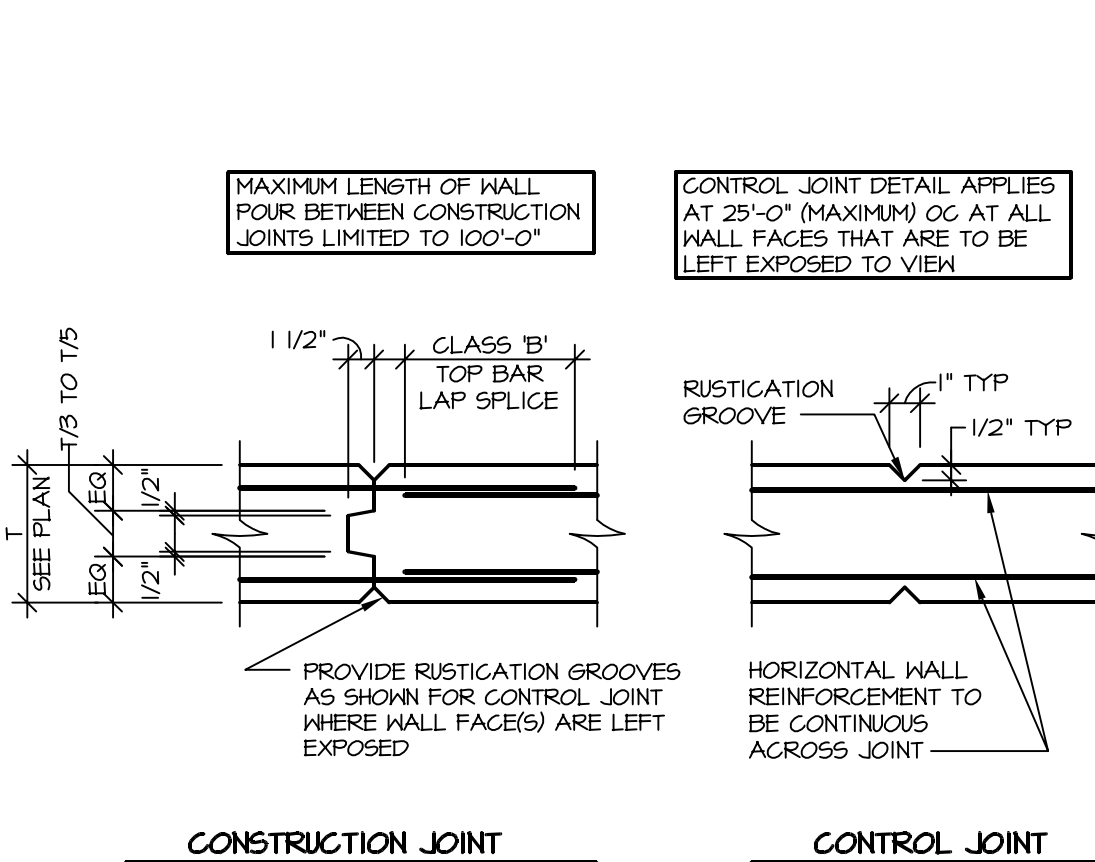
11 STRIP FOOTING AT INTERIOR MASONRY BEARING WALLS

SCALE: NONE



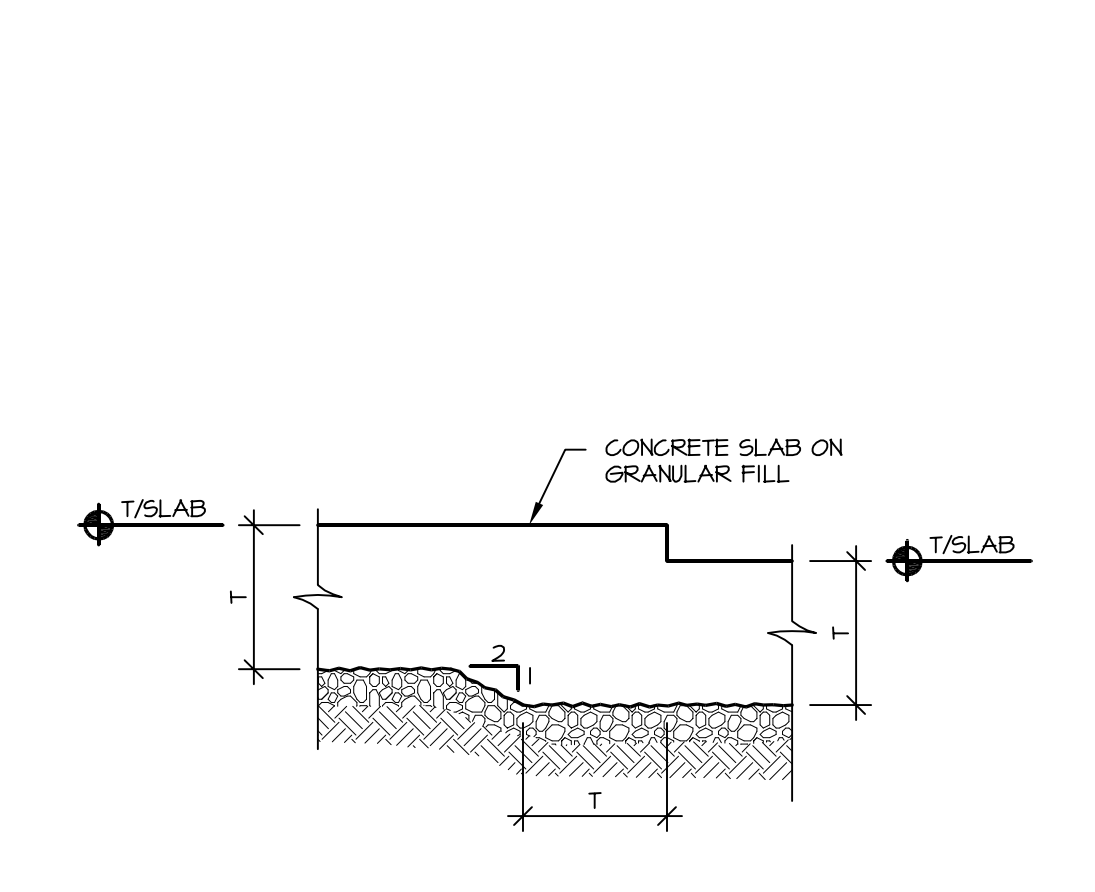
16 FOUNDATION WALL AT CANOPIES

SCALE: 3/4\"/>



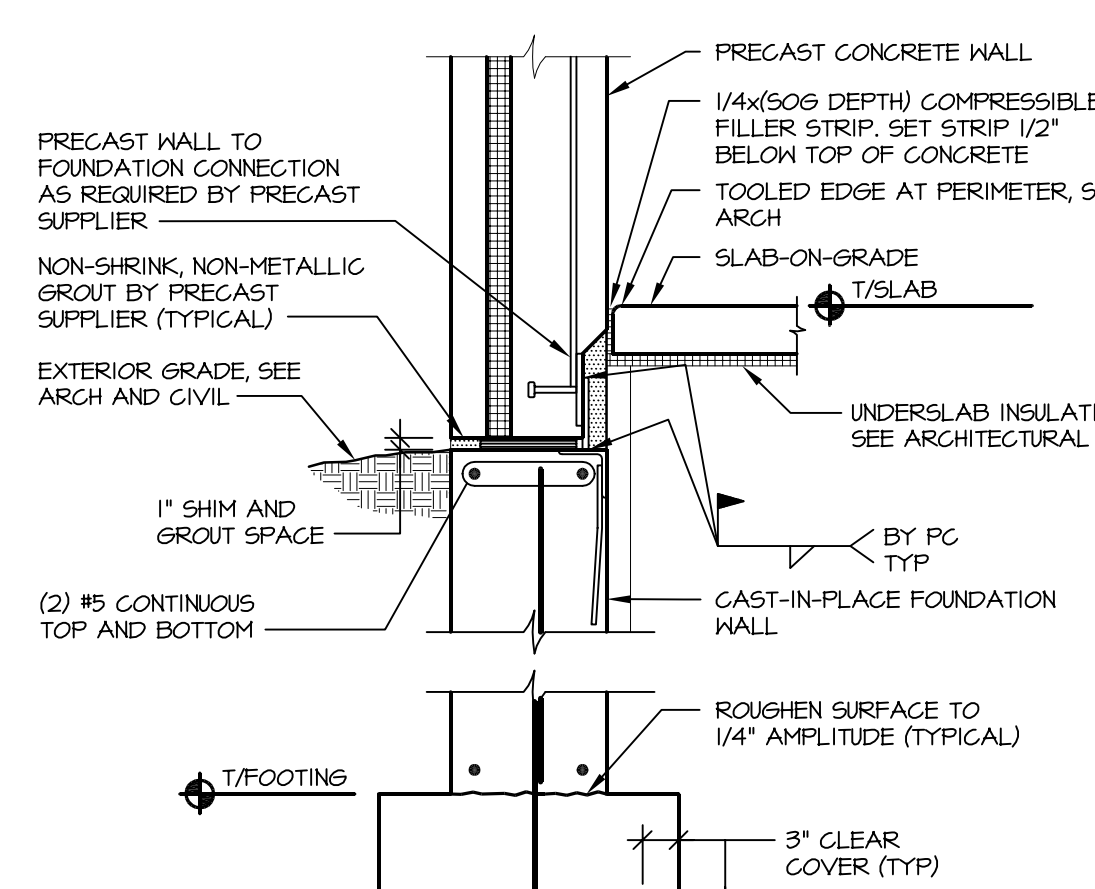
2 TYPICAL CONCRETE WALL JOINTS

SCALE: NONE



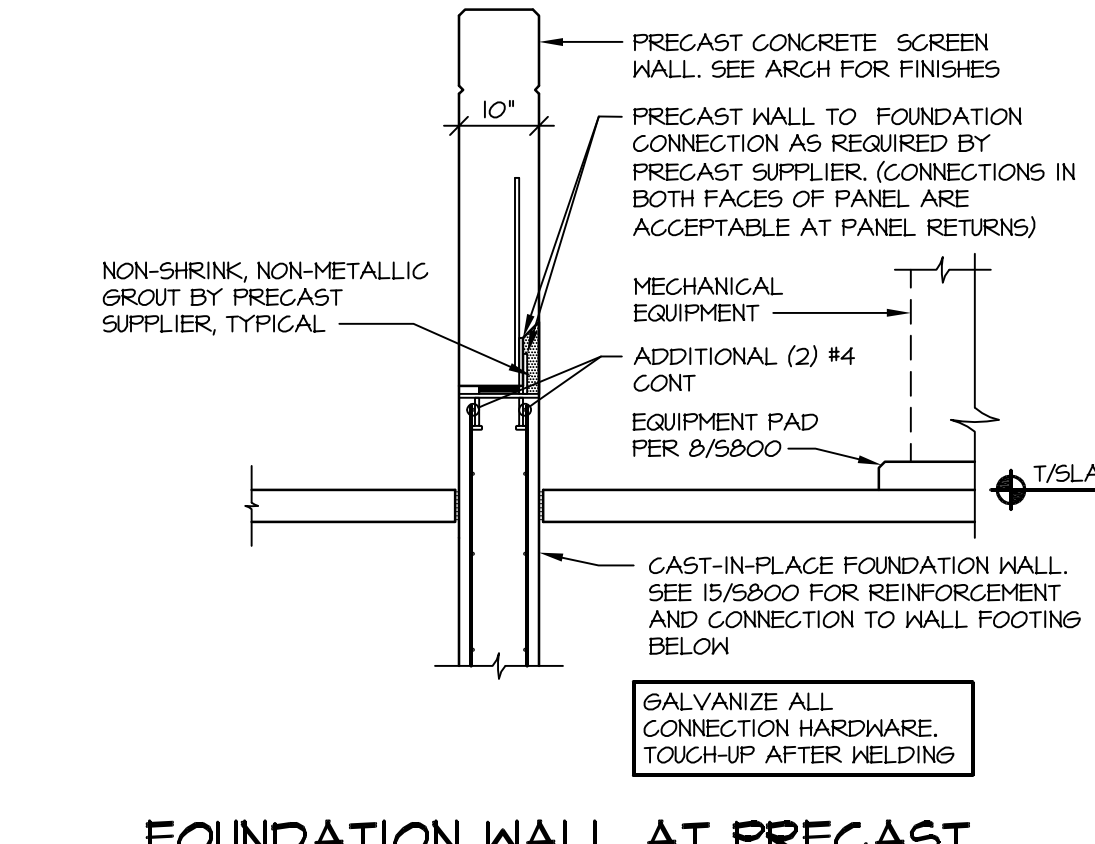
7 SLAB-ON-GRADE DEPRESSION

SCALE: NONE



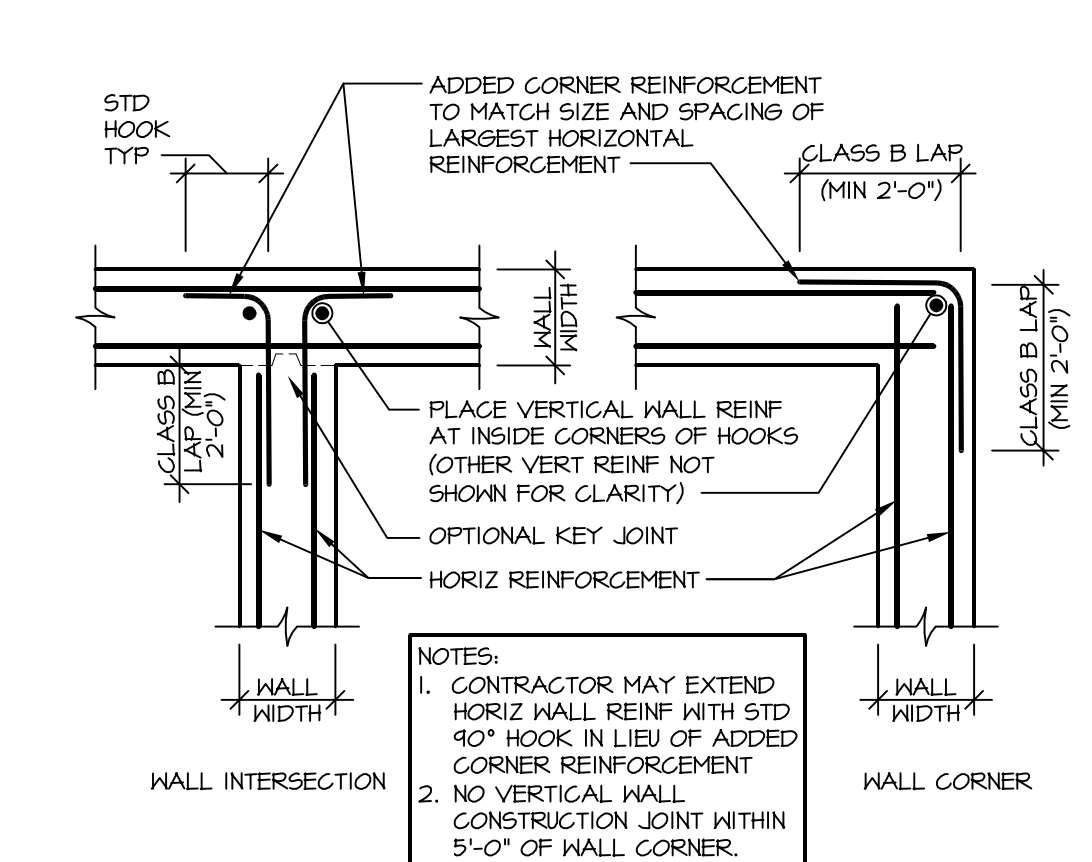
12 WALL PANEL ON CONCRETE FDN WALL

SCALE: 3/4\"/>



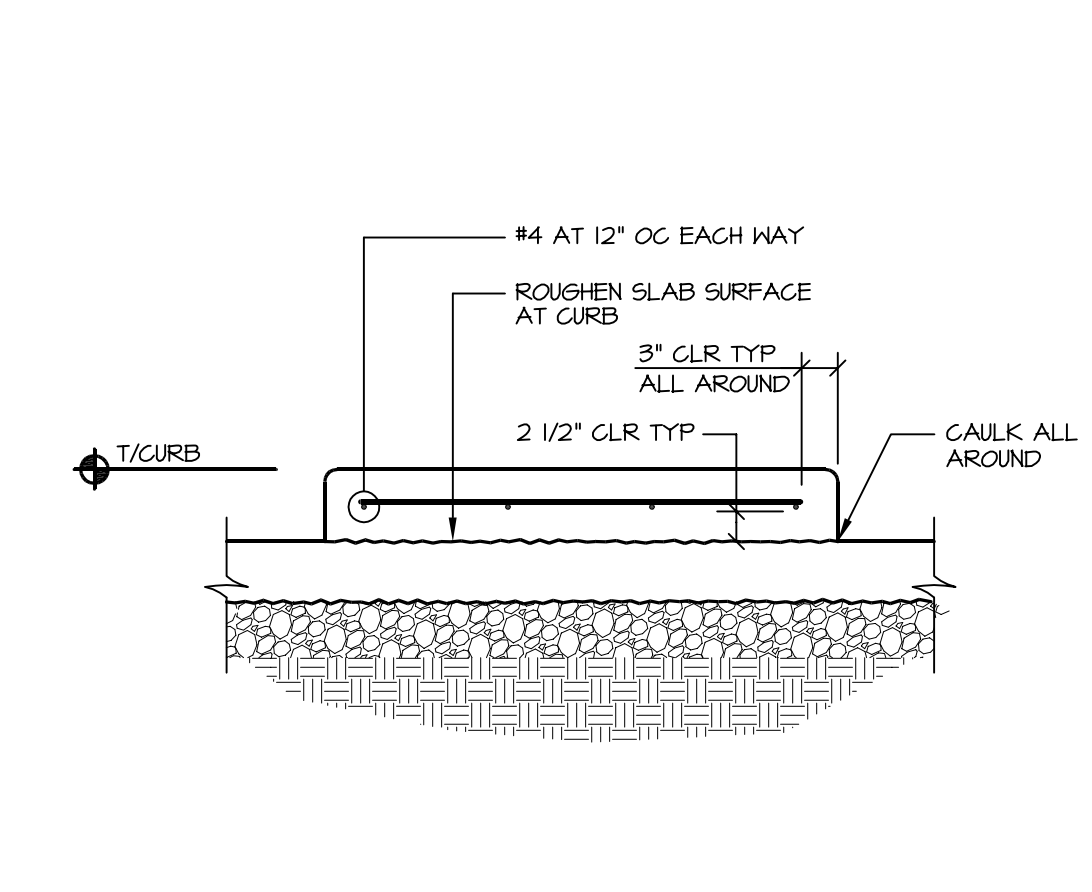
17 FOUNDATION WALL AT PRECAST PANELS AT MECH SCREEN

SCALE: 1/2\"/>



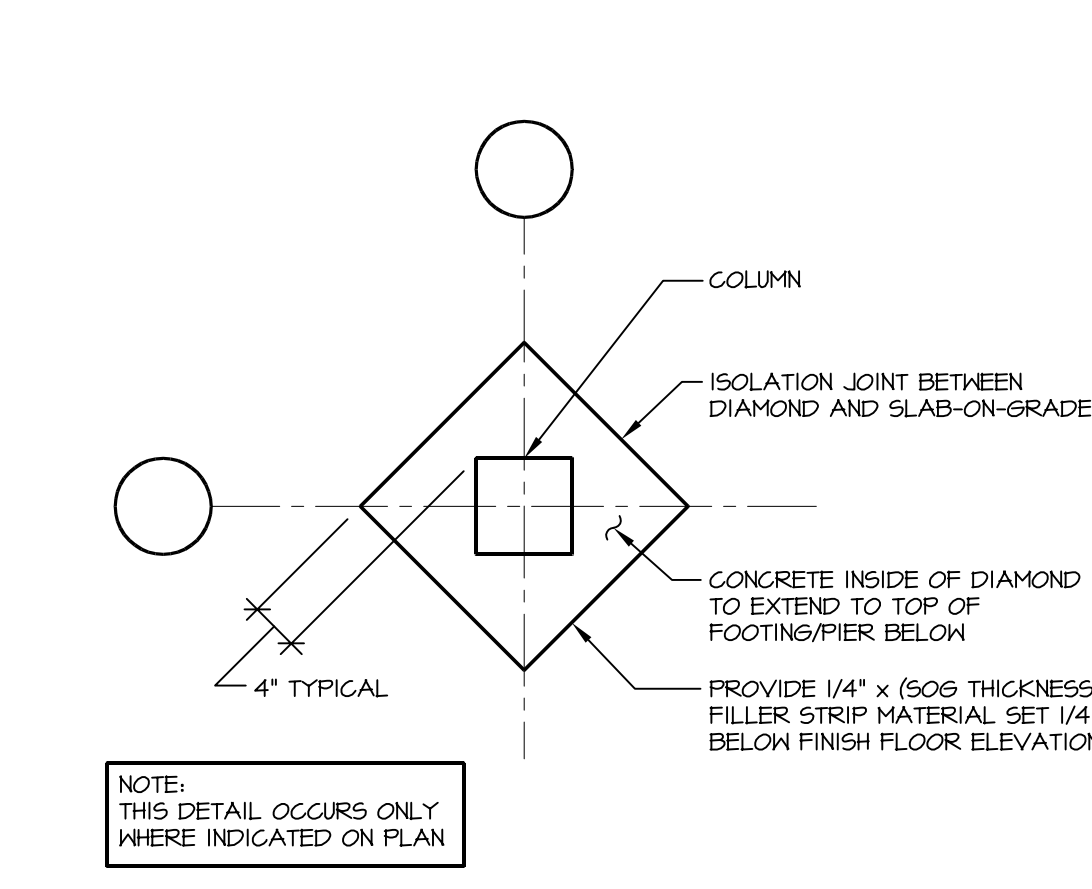
3 TYP WALL CORNER REINFORCEMENT

SCALE: NONE



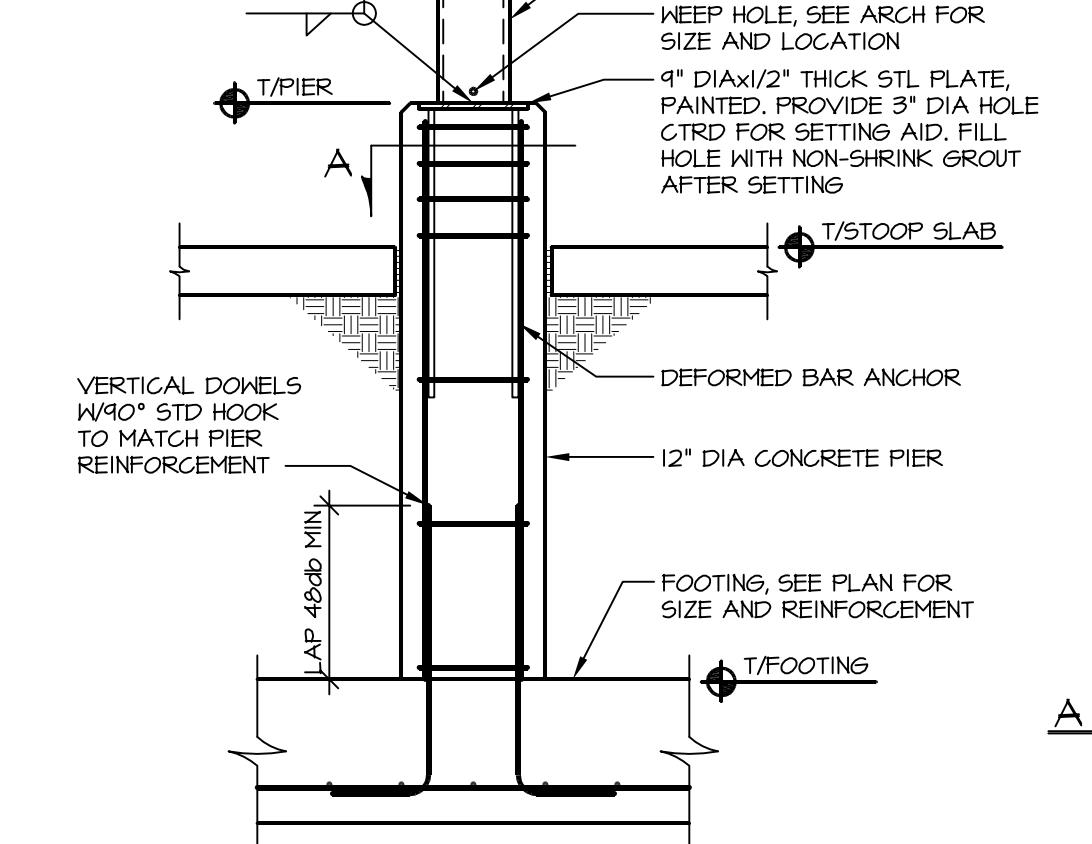
8 CONCRETE EQUIPMENT BASE

SCALE: NONE



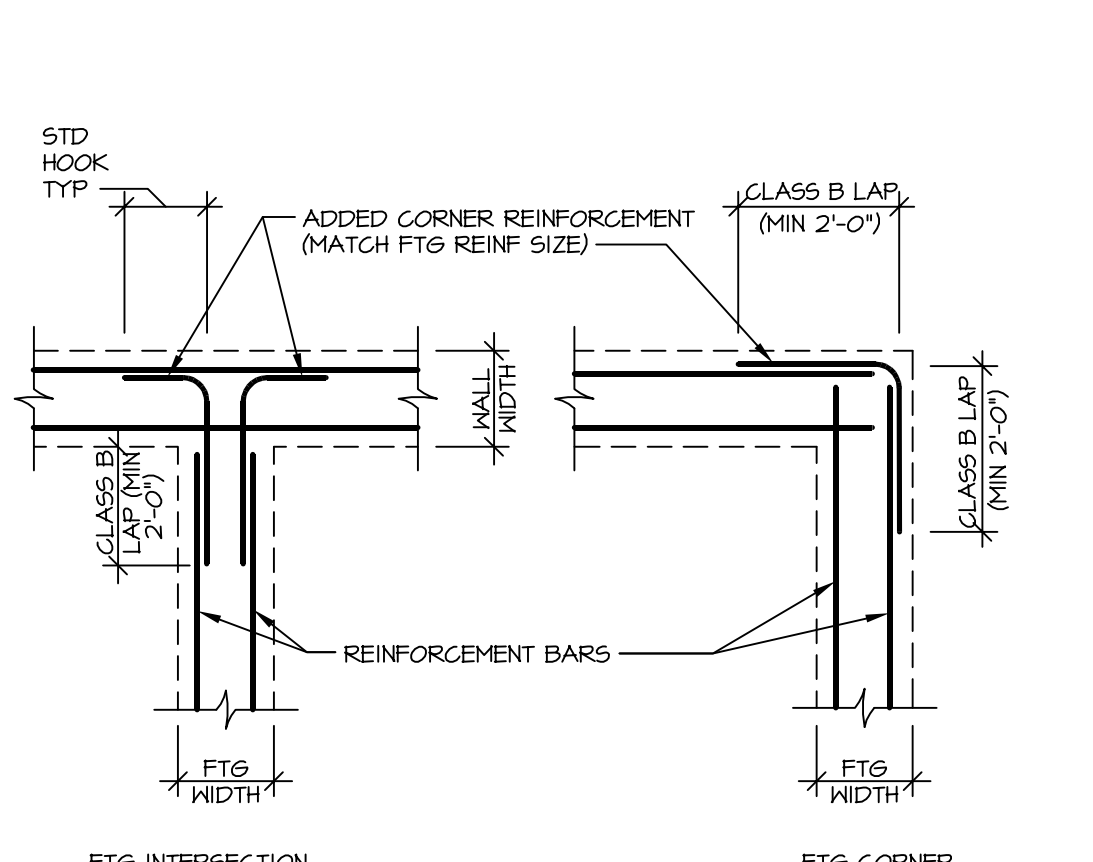
13 ISOLATION JOINT AT COLUMNS

SCALE: NONE



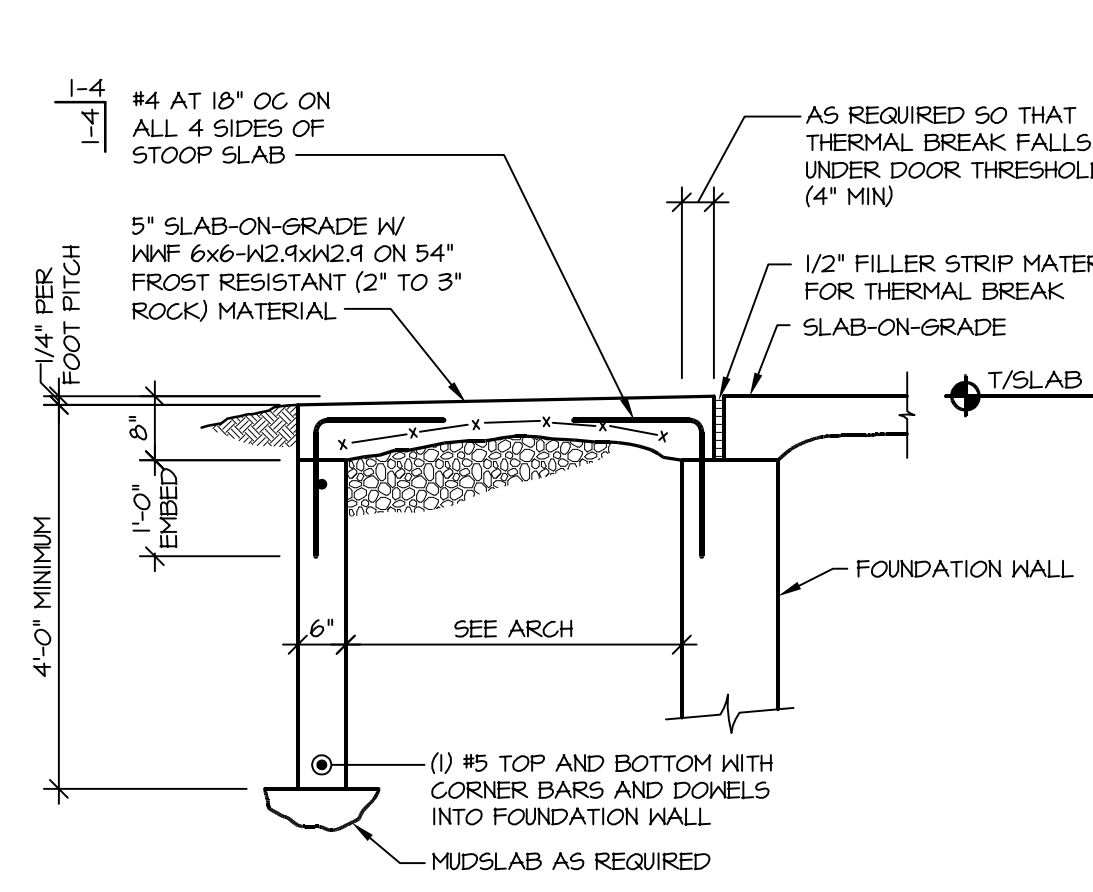
18 PIER PI

SCALE: 3/4\"/>



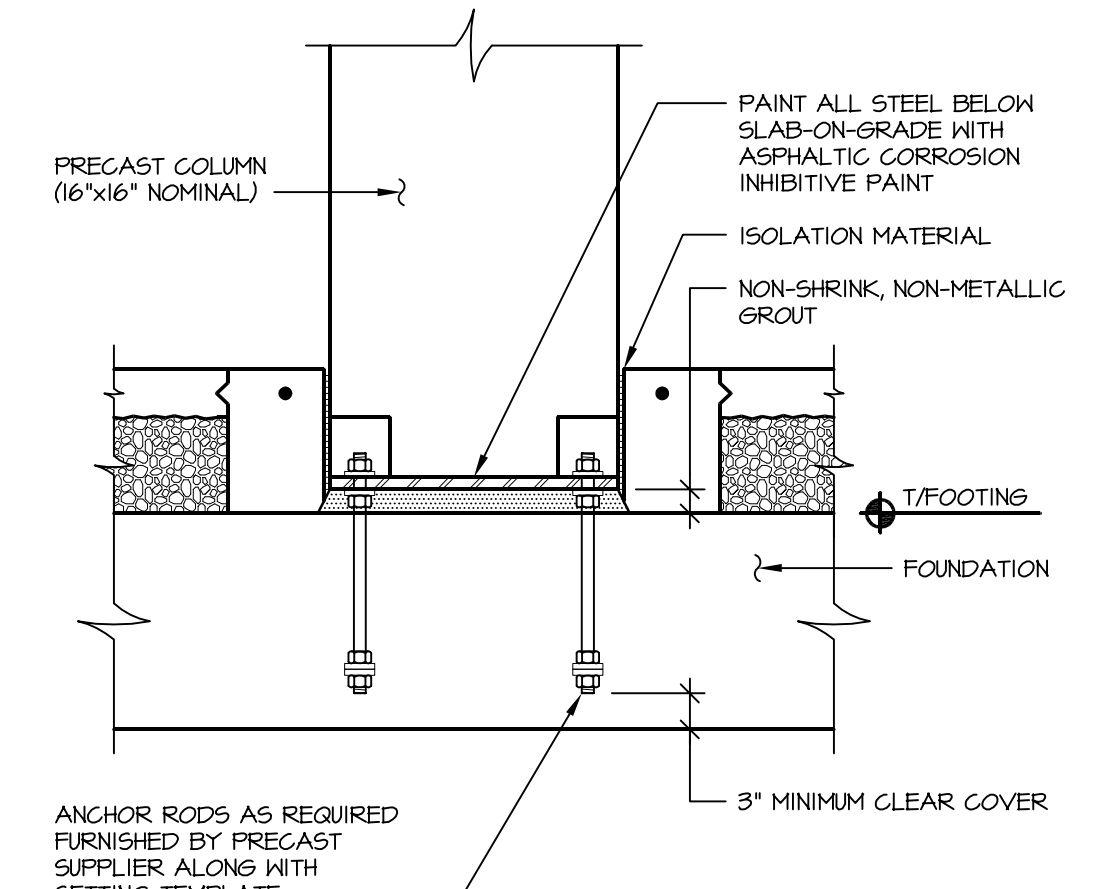
4 TYP FOOTING CORNER REINFORCEMENT

SCALE: NONE



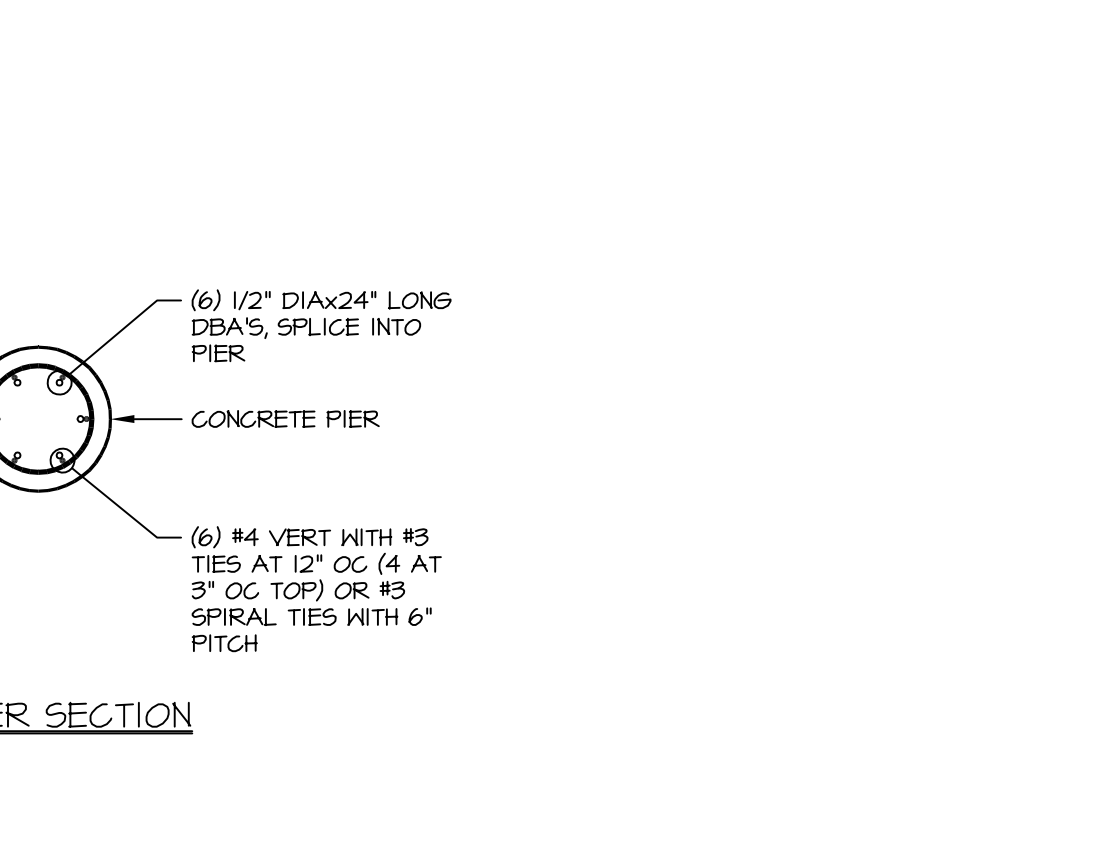
9 TYPICAL STOOP

SCALE: NONE



14 PRECAST COLUMN ON FOOTING

SCALE: NONE



14 PIER SECTION

SCALE: NONE

assemblage ARCHITECTS

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Middleton, WI 53562
T 608.827.5047
F 608.827.6960

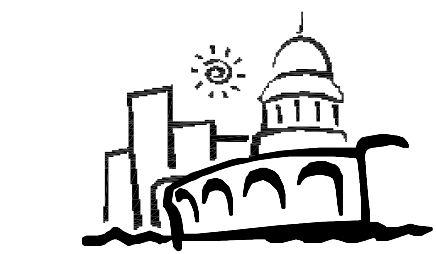
ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

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A&O PROJECT #130158

Contractors are responsible for the means, methods, techniques, sequences and procedures of construction including, but not limited to, temporary supports, shoring, forming to support imposed loads and other similar items.

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT
SHEET NAME
STRUCTURAL DETAILS



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

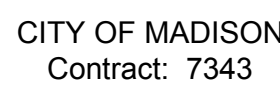
SET TYPE BID DOCUMENTS

DATE 05-30-2014

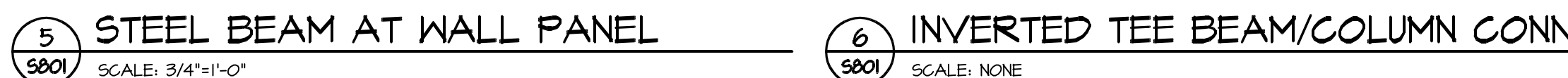
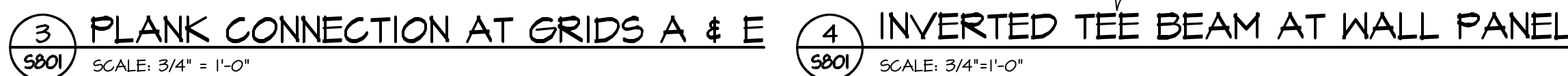
SHEET NUMBER

S800

STRICTLY PRIVATE DETAILS



REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	



FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

NOTE: NOT ALL SYMBOLS AND ABBREVIATIONS INDICATED NECESSARILY APPLY TO THIS PROJECT.

FIRE PROTECTION SYSTEMS

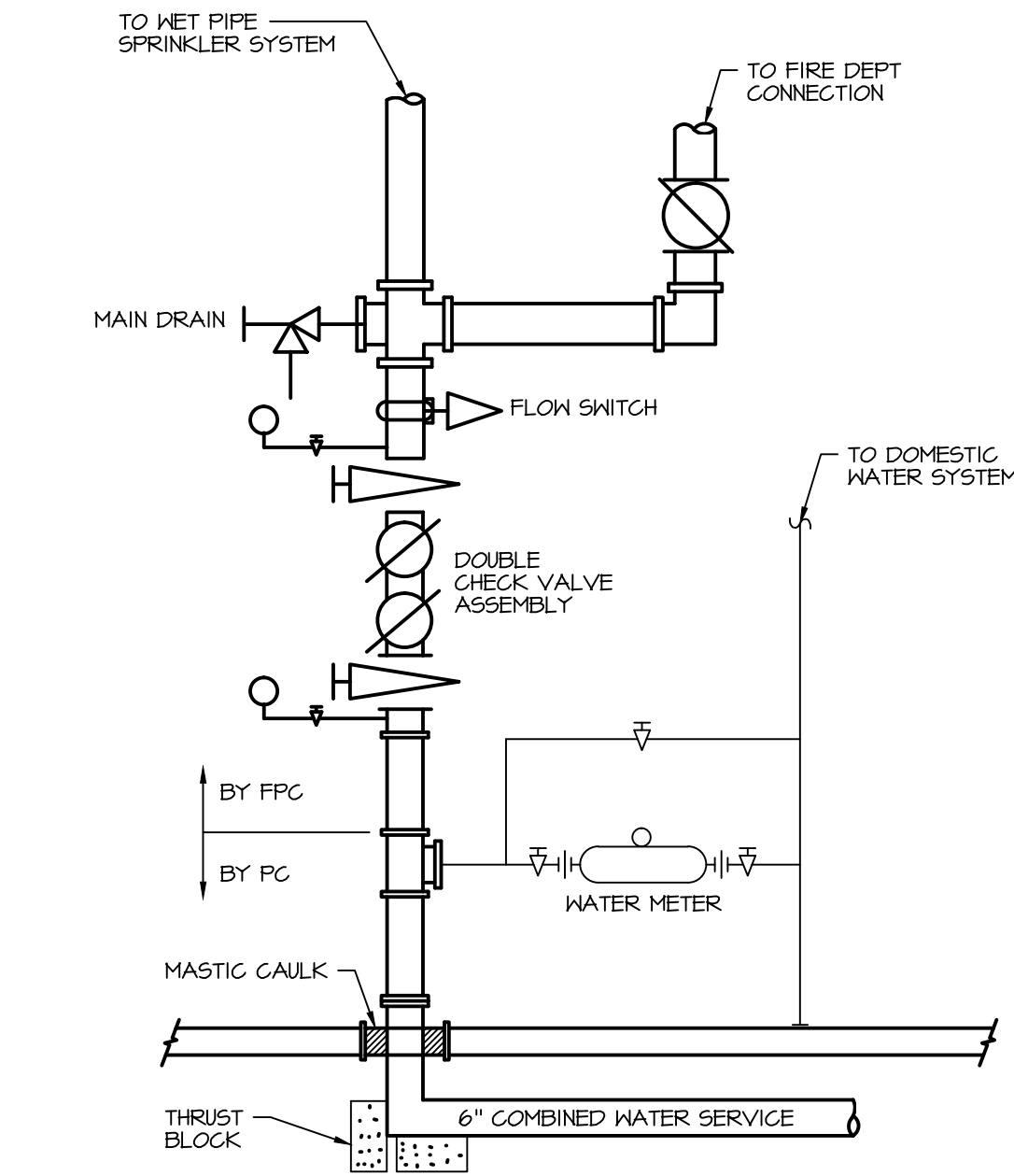
ABBREVIATION	DESCRIPTION	SYMBOL
D	DRAIN LINE	
DSP	DRY STANDPIPE	
DSPR	DRY PIPE SPRINKLER	
F	FIRE PROTECTION WATER SERVICE	
PSPR	PREACTION SPRINKLER	
SPR	SPRINKLER PIPING	

ABBREVIATIONS

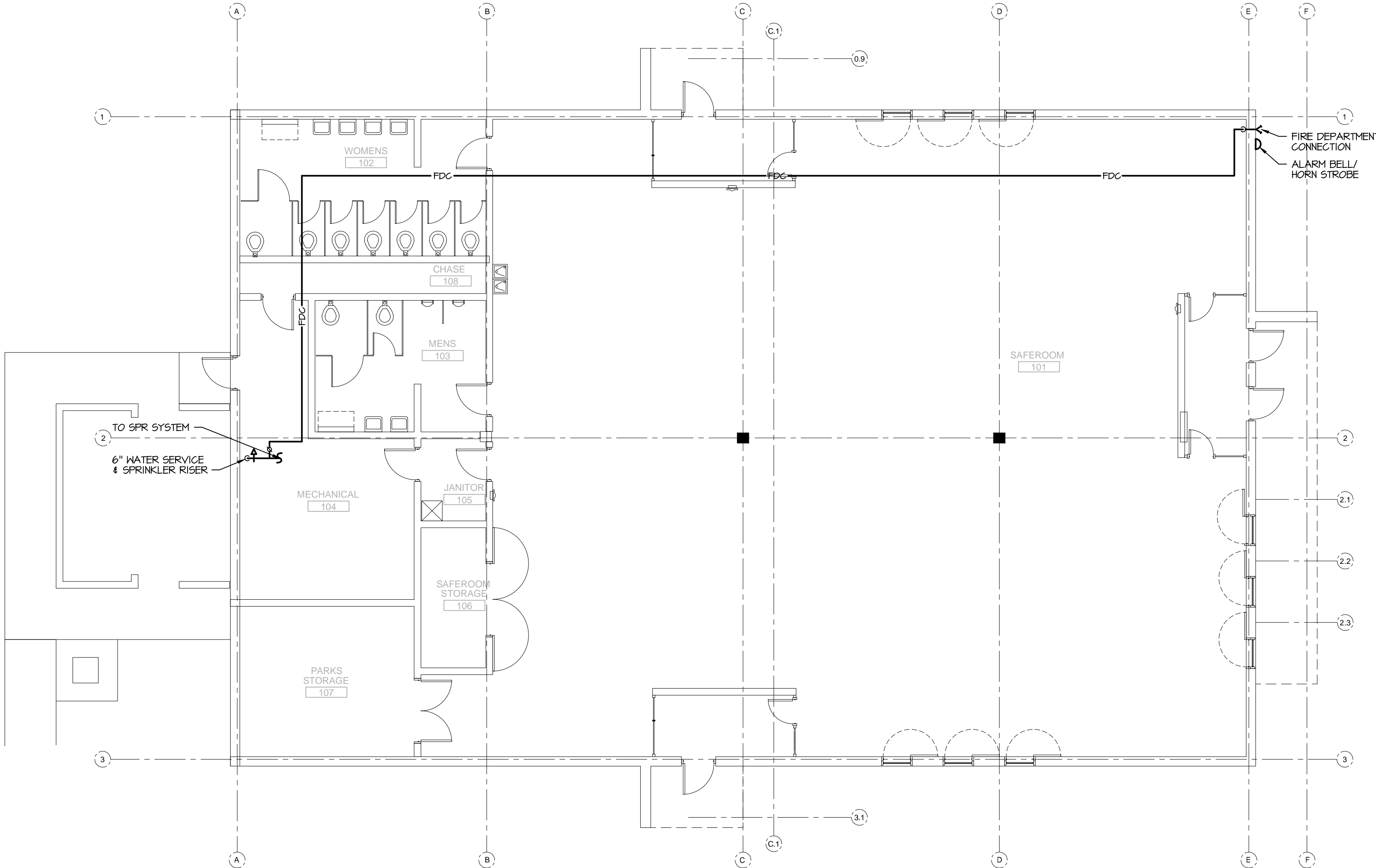
ABBREVIATION	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
EQUIP	EQUIPMENT
FPC	FIRE PROTECTION CONTRACTOR
FT	FOOT OR FEET
GAL	GALLON
GC	GENERAL CONTRACTOR
GPM	GALLON PER MINUTE
HC	HVAC CONTRACTOR
HP	HORSEPOWER
IE	INVERT ELEVATION
LBS	POUNDS
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
PC	PLUMBING CONTRACTOR
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
SF	SQUARE FEET
STRUCT	STRUCTURAL/STRUCTURE
TS	TAMPER SWITCH

SYMBOLS

ABBREVIATION	DESCRIPTION	SYMBOL
-	SPRINKLER	
-	SIDEWALL SPRINKLER	
DDCV	DOUBLE DETECTOR CHECK VALVE ASSEMBLY	
DCVA	DOUBLE CHECK VALVE ASSEMBLY	
FS	FLOW SWITCH	
FDC	FIRE DEPARTMENT CONNECTION	
-	TEE (BRANCH TO SIDE)	
-	TEE (BRANCH DOWN)	
UP	RISER UP	
DN	RISER DOWN	
-	UNION	
-	FLANGE	
-	FLOW	
-	CHECK VALVE	
PRV	PRESSURE REGULATING VALVE	
-	CAP	
-	SHUT-OFF VALVE	
-	PIPE STRAINER	
-	PRESSURE GAUGE	
-	CONTINUATION	
-	KEYED NOTE	
-	DRAWING REVISION	
-	TAG FOR CONTINUATION MATCH POINTS AND/OR DETAIL REFERENCE	



2 WATER SERVICE ENTRANCE DETAIL
SCALE: NONE



1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

assemblage ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

T/ 608 821 8500
F/ 608 821 8501
A&O PROJECT #130158

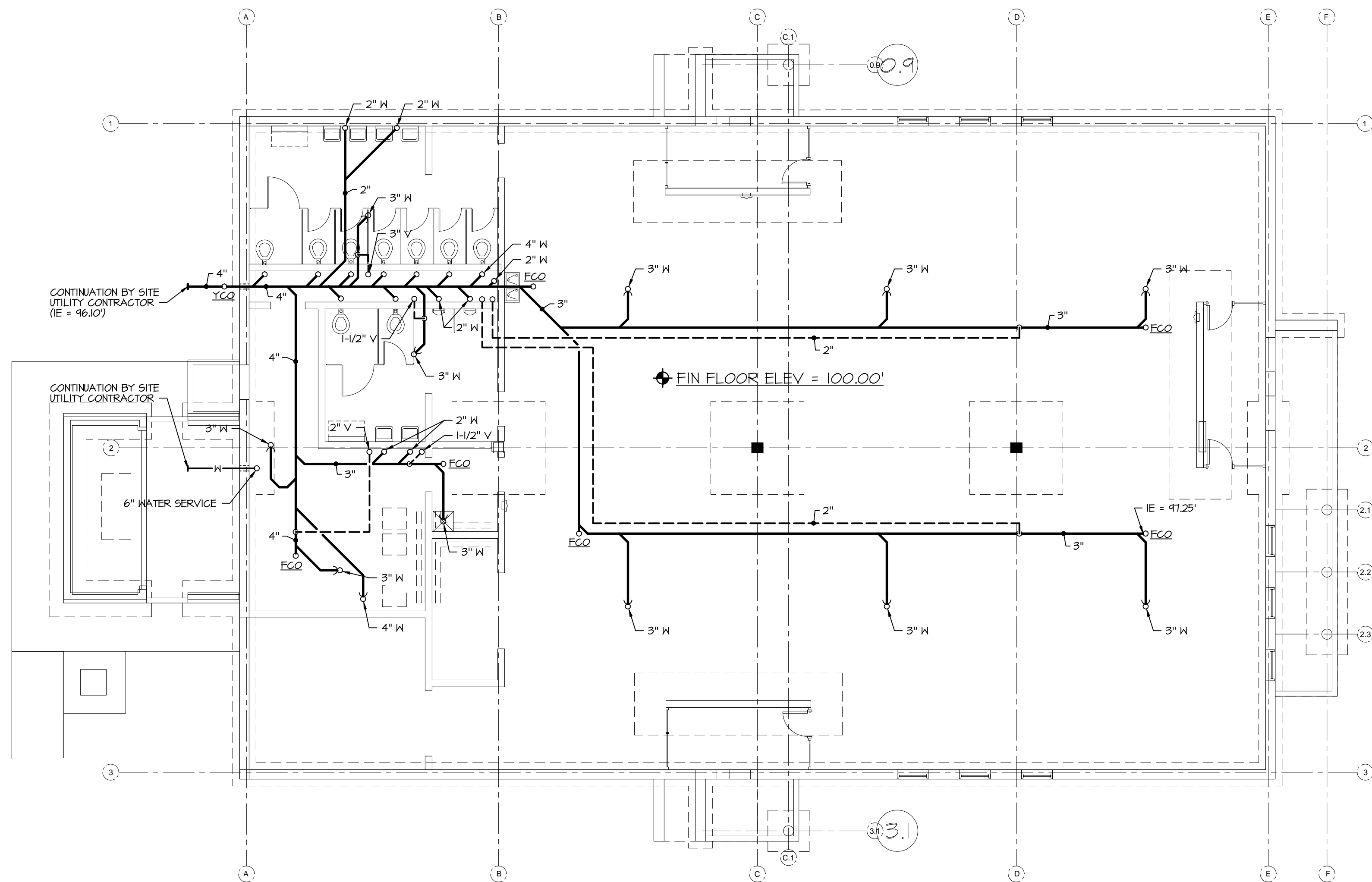
HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SHEET NAME
FLOOR PLANS

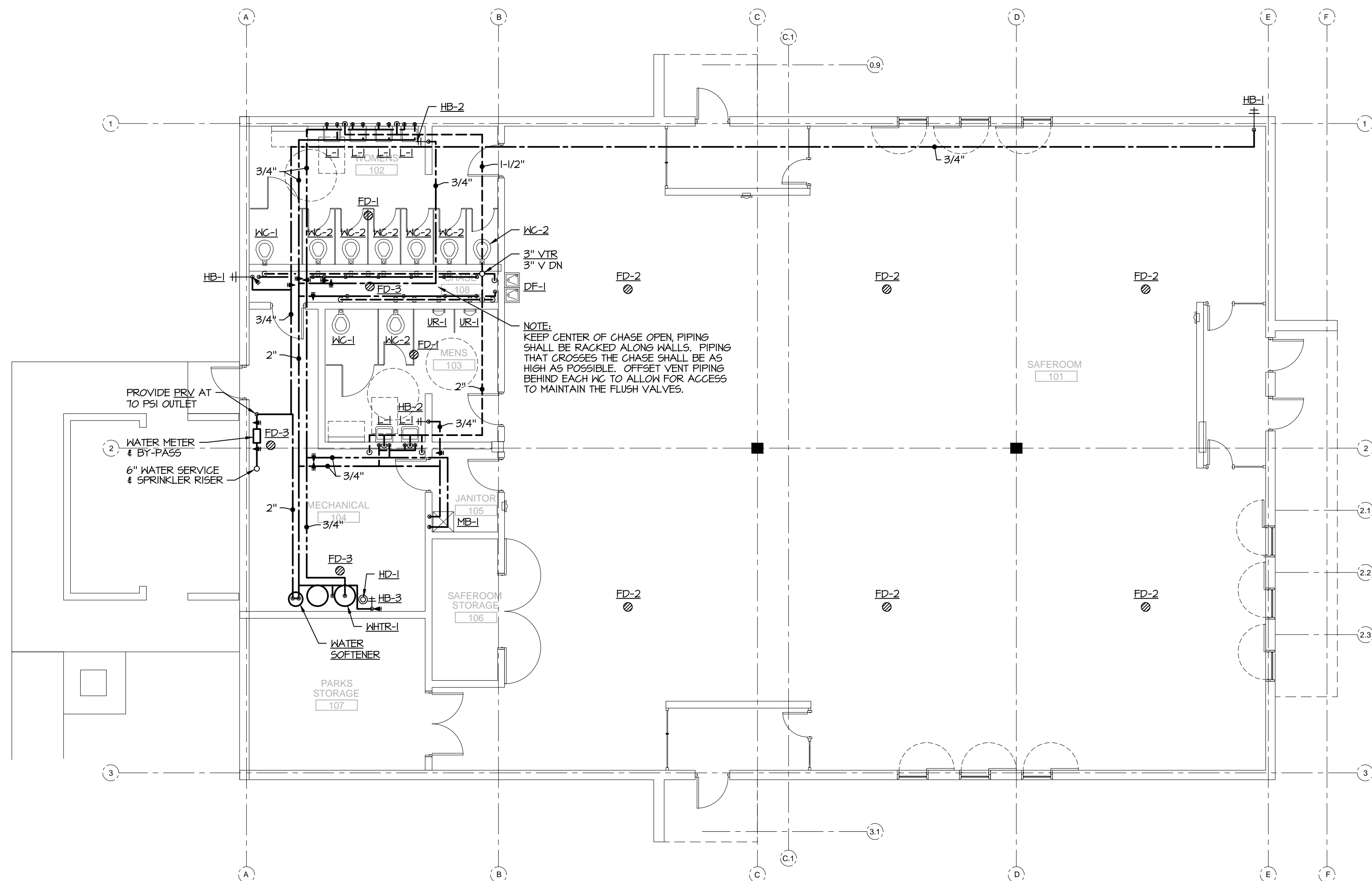


REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

FP101



1 UNDERFLOOR PLAN
SCALE: 1/8" = 1'-0"



2 FLOOR PLAN
SCALE: 1/8" = 1'-0"

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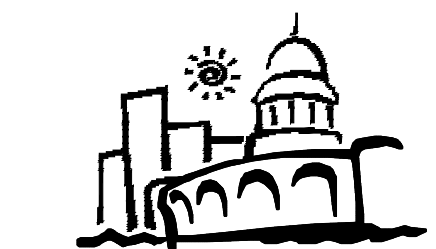
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Middleton, WI 53562
T 608.827.5047
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726 HEARTLAND TRAIL
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T/ 608 821 8500
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A&O PROJECT #130158

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT



CITY OF MADISON
Contract: 7343

REVISION DATE

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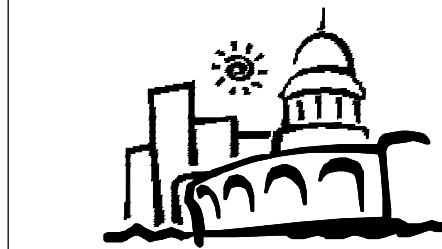
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HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SHEET NAME
ISOMETRICS



CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

P301

WATER SUPPLY CALCULATIONS

INFORMATION NEEDED FOR WATER SERVICE SIZING

1. 66 DEMAND OF BUILDING IN GALLONS PER MINUTE.
 2. 90 LOW PRESSURE AT MAIN IN STREET.
 3. 10' DIFFERENCE IN ELEVATION FROM MAIN TO METER.
 4. 2" SIZE OF WATER METER (IF APPLICABLE).
 5. 125 DEVELOPED LENGTH FROM MAIN TO METER.
- YOU MUST FIRST FIND THE AVAILABLE PRESSURE AFTER THE WATER METER TO OBTAIN THIS PRESSURE, YOU MUST:
6. 5 FIND PRESSURE LOSS DUE TO FRICTION IN 2 INCH WATER SERVICE.
 7. 4.5 FIND PRESSURE LOSS DUE TO ELEVATION, MAIN TO METER. MULTIPLY THE DIFFERENCE IN ELEVATION BY 0.434 P.S.I./FT.
 8. 4 FIND PRESSURE LOSS DUE TO METER. (FROM MANUFACTURER OR AHWA).
 9. 16.5 SUBTRACT THE LOSS DUE TO FRICTION (STEP 6), LOSS DUE TO ELEVATION (STEP 7), AND LOSS DUE TO METER (STEP 8) FROM THE LOW MAIN PRESSURE THIS CALCULATION IS THE AVAILABLE PRESSURE AFTER THE WATER METER. THIS ANSWER IS ENTERED IN LINE B, BELOW.

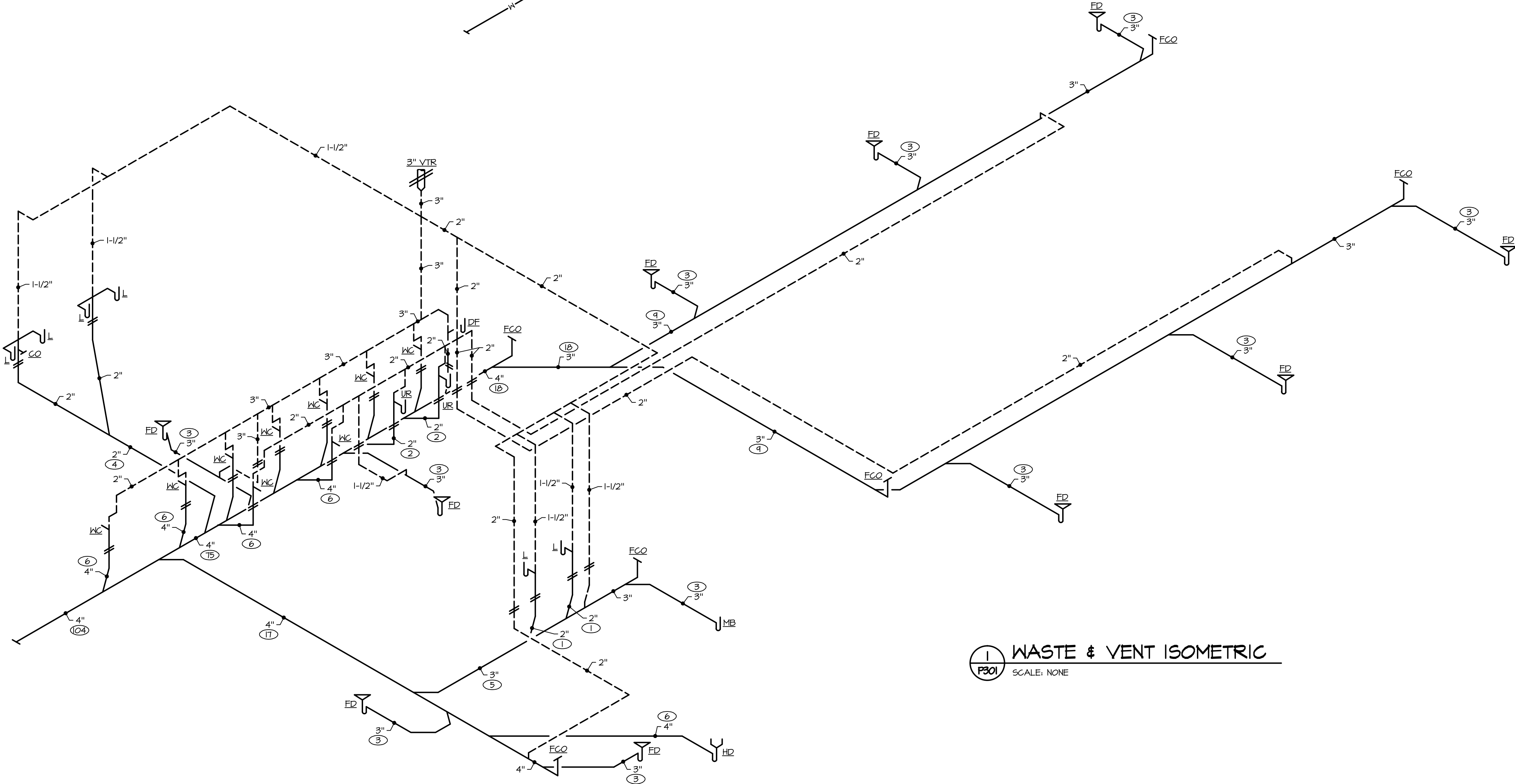
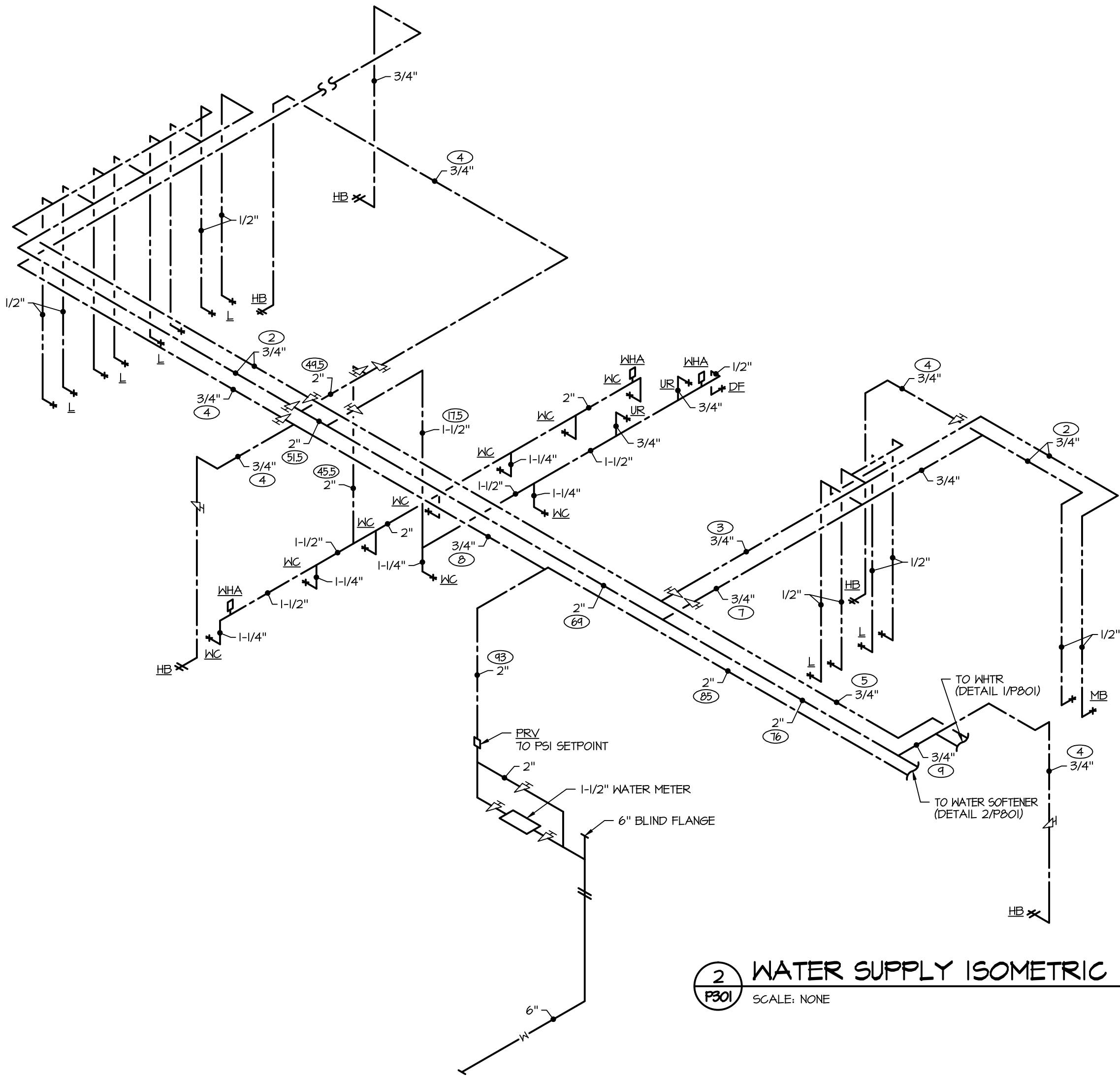
INFORMATION NEEDED FOR WATER DISTRIBUTION SIZING

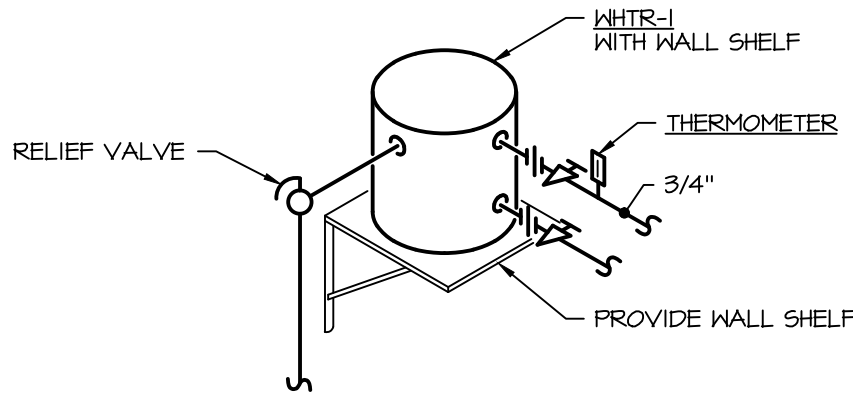
USING THE FOLLOWING FORMULA, FIND THE PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE)

$$A = \frac{B - (C + D + E) \times 100}{F}$$

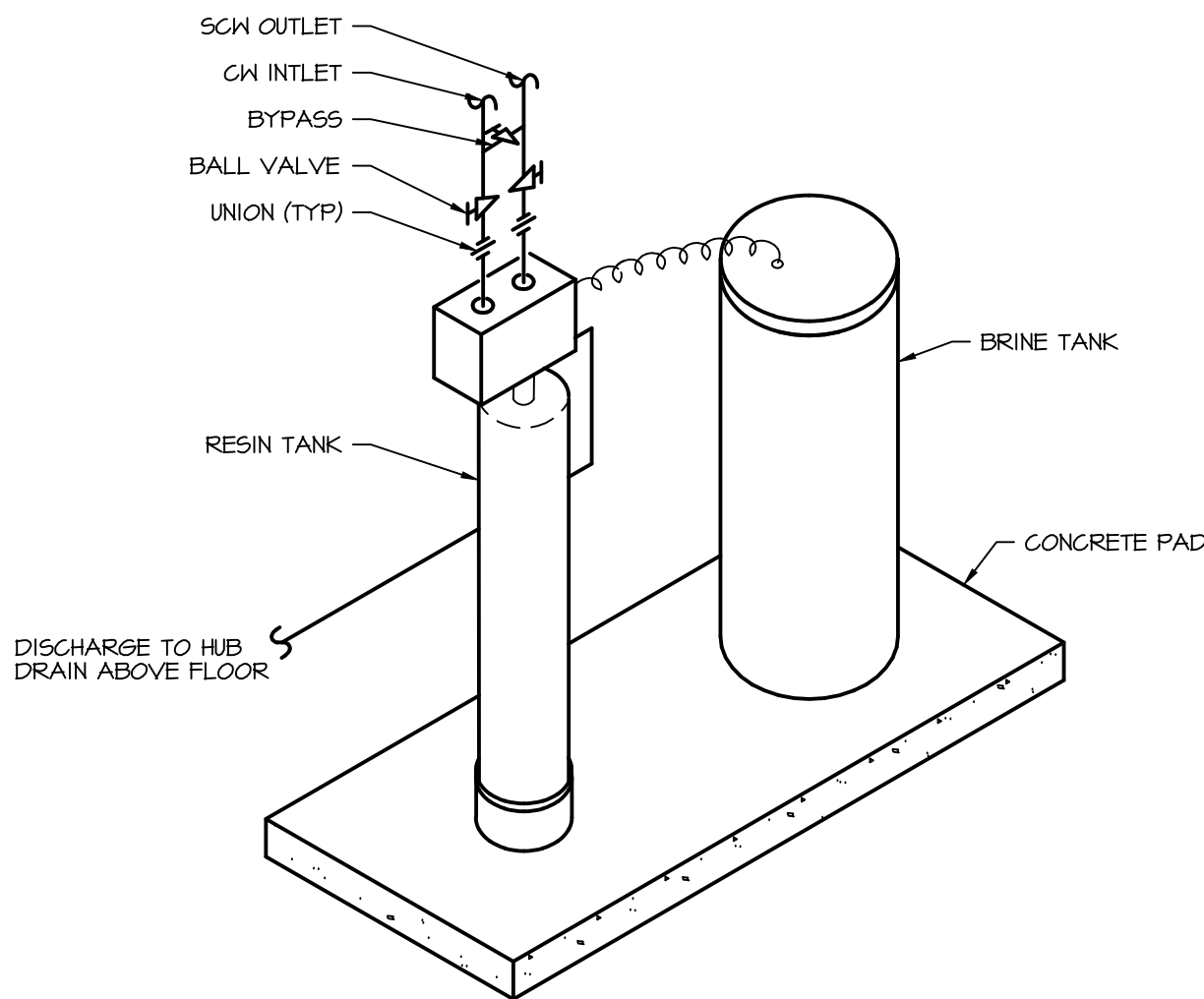
WHERE:

- A. 20 PRESSURE AVAILABLE FOR UNIFORM LOSS (PSI/100' OF PIPE).
 - B. 10 AVAILABLE PRESSURE AFTER PRESSURE REDUCING VALVE.
 - C. 25 PRESSURE NEEDED AT CONTROLLING FIXTURE.
 - D. 0 DIFFERENCE IN ELEVATION BETWEEN WATER METER AND CONTROLLING FIXTURE IN FEET 0 X 0.434 PSI/FT.
 - E. 15 PRESSURE LOSS DUE TO WATER SOFTENERS, WATER TREATMENT DEVICES, INSTANTANEOUS WATER HEATERS AND BACKFLOW PREVENTERS. CONVENTIONAL WATER HEATERS USUALLY DO NOT HAVE A PRESSURE LOSS.
 - F. 150 DEVELOPED LENGTH FROM WATER METER TO CONTROLLING FIXTURE IN FEET 100 X 1.5.
- WITH PRESSURE AVAILABLE FOR UNIFORM LOSS, GO TO APPLICABLE TABLE FOR DISTRIBUTION SIZING.





1 ELECTRIC WATER HEATER ON SHELF
SCALE: NONE



2 WATER SOFTENER DETAIL
SCALE: NONE

PLUMBING FIXTURE SCHEDULE

DEVICE NO.	MANUF.	MODEL NO.	DESCRIPTION
WC-1	KOHLER BEMIS SLOAN -	"KINGSTON" K-4329 1455 SSC ROYAL 152-1/6 ES-5 -	VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, REAR SPUD, 1/6 GALLON FLUSH TOILET (MOUNT WITH RIM AT 17" AFF FOR A.D.A. COMPLIANCE) ELONGATED OPEN FRONT SEAT, LESS COVER, WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE CHROME PLATED, REAR SPUD, 1/6 GALLON FLUSH VALVE, SENSOR OPERATED, 120V/24V TRANSFORMER, COURTESY FLUSH OVERRIDE PROVIDE COMMERCIAL GRADE VERTICAL ADJUSTABLE WALL-HUNG CLOSET CARRIER AS REQUIRED, PROVIDE COUPLING AND BOLTS FOR 8" WALL
WC-2	KOHLER BEMIS SLOAN -	"KINGSTON" K-4329 1455 SSC ROYAL 152-1/6 ES-5 -	VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, REAR SPUD, 1/6 GALLON FLUSH TOILET (MOUNT WITH RIM AT 15" AFF) ELONGATED OPEN FRONT SEAT, LESS COVER, WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE CHROME PLATED, REAR SPUD, 1/6 GALLON FLUSH VALVE, SENSOR OPERATED, 120V/24V TRANSFORMER, COURTESY FLUSH OVERRIDE PROVIDE COMMERCIAL GRADE VERTICAL ADJUSTABLE WALL-HUNG CLOSET CARRIER AS REQUIRED, PROVIDE COUPLING AND BOLTS FOR 8" WALL
UR-1	KOHLER SLOAN -	"BARDON" K-4960-ER "ROYAL" 145-0/5 ES-5 -	VITREOUS CHINA, WALL HUNG, REAR SPUD, 0.5 GALLON FLUSH WASHDOWN URINAL WITH REMOVABLE BEEHIVE STRAINER (COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DETAILS TO DETERMINE FIXTURES WHICH SHALL COMPLY WITH A.D.A. RIM HEIGHT OF 17" AFF MAXIMUM) CHROME PLATED, REAR SPUD, 0.5 GALLON FLUSH VALVE, SENSOR OPERATED, 120V/24V TRANSFORMER, COURTESY FLUSH OVERRIDE PROVIDE COMMERCIAL GRADE FLOOR MOUNTED URINAL SUPPORTS
L-1	KOHLER McGUIRE SLOAN McGUIRE -	"KINGSTON" K-2005 195A ETF-610-BDT H2165 LK PW 2125 WC -	VITREOUS CHINA, WALL HUNG LAVATORY WITH 4" FAUCET CENTERS OPEN GRID STRAINER POLISHED CHROME FAUCET, SINGLE HOLE, SENSOR OPERATED, 120V/24/ PLUS-IN TRANSFORMER, 0.5 GPM SPRAY HEAD, BELOW DECK THERMOSTATIC MIXING VALVE LOOSE KEY STOPS AND SUPPLIES WITH CHROME PLATED ESCUTCHEONS PRE-WRAPPED OFFSET DRAIN AND P-TRAP, TAIL PIECE COVER, TWO SUPPLY COVERS, AND CHROME PLATED ESCUTCHEON PROVIDE COMMERCIAL GRADE FLOOR MOUNTED CONCEALED ARM SUPPORTS
MB-1	CRANE/FIAT CHICAGO	MSB 2424 1453-BB E-TT-AA 540-LD84T-XK E2T	MOLDED STONE 24" x 24" x 10" HIGH MOP SERVICE BASIN WITH 3" INTEGRAL DRAIN FLAT STAINLESS STEEL STRAINER VINYL BUMPERGUARDS ON ALL EXPOSED SIDES POLISHED CHROME SERVICE SINK FAUCET WITH INTEGRAL STOPS, CERAMIC DISC CARTRIDGES SPOUT OUTLET VACUUM BREAKER
DF-1	ELKAY	LZHS-EDFFBMVITK HCR8	BARRIER FREE, WALL MOUNTED, STAINLESS STEEL WITH SATIN FINISH, TWO LEVEL DRINKING FOUNTAIN, PUSH BUTTON, VANDAL RESISTANT BUBBLERS, AND BOTTLE FILLING STATION WITH FILTER REMOTE CHILLER, 8 GPH, PROVIDE WALL SHELF TO SUPPORT CHILLER
HB-1	WOODFORD	6T SERIES	EXPOSED AUTOMATIC DRAINING HOSE BIB WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE THREAD NOZZLE, AND LOOSE TEE KEY
HB-2	WOODFORD	74 SERIES	EXPOSED HOSE BIB WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE THREAD NOZZLE, AND LOOSE TEE KEY
HB-3	WOODFORD	24	EXPOSED HOSE BIB WITH INTEGRAL VACUUM BREAKER, 3/4" HOSE THREAD NOZZLE, AND WHEEL HANDLE
RPBP-1	WATTS	904-QT-5 904-AG	1/2" REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH QUARTER-TURN, FULL PORT, BALL VALVE SHUT-OFFS, AND STRAINER AIR-GAP FITTING

PLUMBING DRAIN & CLEANOUT SCHEDULE

DEVICE NO.	MANUF.	MODEL NO.	DESCRIPTION
FD-1	ZURN	ZN-415B-VP	CAST IRON BODY, 6" DIAMETER NICKEL BRONZE "TYPE B" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR, VANDAL PROOF SCREWS
FD-2	ZURN -	ZN-415B-VP -	CAST IRON BODY, 6" DIAMETER NICKEL BRONZE "TYPE B" STRAINER, COMBINATION INVERTIBLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, VANDAL PROOF SCREWS TRAP GUARD
FD-3	ZURN	ZN-525	CAST IRON BODY, 9" DIAMETER NICKEL BRONZE TOP, SEEPAGE PAN, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, AND MEDIUM DUTY DEEP FLANGE SLOTTED GRATE
HD	-	-	PVC FUNNEL AND TRAP
FCO	ZURN	ZN-1400-BP	CAST IRON BODY, ADJUSTABLE FLOOR CLEANOUT WITH NICKEL BRONZE TOP AND BRONZE PLUG, INCLUDE VANDAL PROOF SCREWS IN PUBLIC SPACE

PLUMBING EQUIPMENT SCHEDULE

DEVICE NO.	MANUF.	MODEL NO.	DESCRIPTION
WHTR-1	A.O. SMITH	DEL-20	GLASS LINED AND INSULATED ELECTRIC TANK TYPE WATER HEATER, 20 GALLON STORAGE CAPACITY, SINGLE ELEMENT OPERATION, RATED AT 25 KW, 240 VOLT, 1 PHASE, WITH RECOVERY OF 15 GAL/HR AT 80°F TEMPERATURE RISE (120°F SETPOINT)
WATER SOFTENER	HELLENBRAND	TS-60-15	EXCHANGE CAPACITY OF 56,000 GRAINS AT MEDIUM SALT, 31 GPM CONTINUOUS FLOW AT MAXIMUM PRESSURE DROP OF 15 PSI RESIN CAPACITY OF 2 CUBIC FEET PER MINUTE SALT/REGENERATION: 12 LB MIN. - 20 LB MED. - 30 LB MAX. ONE MINERAL TANK: 13" DIAMETER x 54" HIGH VALVE: 1-1/2" SIZE, 1" METER ONE BRINE TANK: 18" DIAMETER x 40" HIGH (APPROXIMATE 375 LB SALT CAPACITY) REGEN CONTROL: DELAYED REGENERATION ECONOMIZER SYSTEM 4

assemblage ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

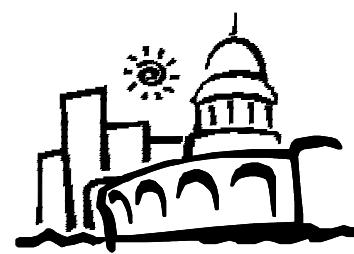
T/ 608 821 8500
F/ 608 821 8501
A&O PROJECT #130158



HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

SHEET NAME
DETAILS & SCHEDULES

PROJECT



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

P801

SYMBOLS LIST:

LIGHTING:

CEILING MOUNTED FLUORESCENT FIXTURE

FIXTURE DESIGNATION (SEE SCHEDULE)

CIRCUIT SWITCH LEG. NO DESIGNATION INDICATES PORTION OF CIRCUIT SWITCHED FROM LOCAL SWITCH OR OCCUPANCY SENSOR.

CIRCUIT NUMBER. SEE PLANS FOR PANEL.

SHADING INDICATES FIXTURE WIRED TO EMERGENCY OR NIGHT LIGHTING CIRCUIT

FLUORESCENT WALL MOUNTED FIXTURE

FLUORESCENT STRIP LIGHT

LIGHTING FIXTURE – CEILING SURFACE – HID/INCAND./PL FLUORESCENT

LIGHTING FIXTURE – WALL SURFACE – HID/INCAND./PL FLUORESCENT

LIGHTING FIXTURE – CEILING RECESS – HID/INCAND./PL FLUORESCENT

NOTE: SHADING OF ANY OF THE LIGHTING FIXTURES ABOVE INDICATES UNITS WIRED TO AN EMERGENCY OR NIGHT LIGHTING CIRCUIT.

EXIT LIGHT. SHADING INDICATES FACE OF EXIT.

EBU EMERGENCY BATTERY POWER SPOT ILLUMINATION UNIT – DUAL HEAD LIGHT – WALL MOUNT 12” BELOW CEILING UNLESS NOTED OTHERWISE.

SINGLE POLE SWITCH – TOGGLE TYPE – MOUNT AT 44” AFF, UNLESS NOTED OTHERWISE

SWITCH DESIGNATION

SWITCH TYPE (3) 3 WAY

LIGHTING CONTROL OCCUPANCY SENSOR. WALL MOUNTED AT 44” AFF UNLESS NOTED OTHERWISE. PASSIVE INFRARED TECHNOLOGY

LIGHTING CONTROL OCCUPANCY SENSOR. CEILING MOUNTED ULTRASONIC TECHNOLOGY UNLESS NOTED OTHERWISE.

PHOTO-CONTROL

POWER:

DUPLEX RECEPTACLE – MOUNTED 18” AFF UNLESS NOTED OTHERWISE

CIRCUIT NUMBER (SEE PLAN FOR PANEL BOUNDARIES) – TYPICAL RECEPTACLE TYPE OR EQUIPMENT SERVED.

(D) DEDICATED CIRCUIT

(EWC) ELECTRIC WATER COOLER

(WP) WEATHERPROOF

GROUND FAULT INTERRUPTING DUPLEX RECEPTACLE – MOUNTED AT 18” AFF UNLESS NOTED OTHERWISE.

MDP/PA SPECIAL PURPOSE OUTLET – SEE PLAN NOTES

AHU-1 MOTOR CONNECTION

MOTOR DESIGNATION AND PANEL FEEDING MOTOR. REFER TO ONE- LINE POWER DIAGRAM FOR FEEDER AND STARTER INFORMATION.

(1) SINGLE PHASE MOTOR 120V., 1Ø / 20A, 1P / 3 #12’S-1/2”C. UNLESS NOTED OTHERWISE

DISCONNECT SWITCH – MOUNT AT 60” AFF UNLESS NOTED OTHERWISE

FUSED DISCONNECT SWITCH – MOUNT AT 60” AFF UNLESS NOTED OTHERWISE

MOTOR STARTER – MANUAL TYPE – MOUNT AT 60” AFF UNLESS NOTED OTHERWISE

MOTOR STARTER – MAGNETIC TYPE – MOUNT AT 60” AFF UNLESS NOTED OTHERWISE

MOTOR STARTER – COMBINATION TYPE – MOUNT AT 60” AFF UNLESS NOTED OTHERWISE

JUNCTION BOX

DIGITAL MULTI METER

1/2” X 2” X 12” COPPER GROUND BUS (PROVIDE #3/0 BARE COPPER CONDUCTOR FROM MAIN ELECTRICAL SERVICE GROUND BUS)

SECURITY:

ELECTRIC STRIKE ROUGH-IN (PROVIDE 3/4” CONDUIT FROM STRIKE LOCATION IN DOOR FRAME TO NEAREST ACCESSIBLE CEILING)

FIRE ALARM:

FACP NEW FIRE ALARM CONTROL PANEL

FAAP NEW FIRE ALARM ANNUNCIATOR PANEL

NEW FIRE ALARM PULL STATION 44” AFF

VISUAL STROBE ONLY DEVICE – MOUNT 6” BELOW CEILING OR AT 6’-8” AFF, WHICHEVER IS LOWER.

INDICATED CANDELA INTENSITY

FIRE ALARM AUDIO SIGNALING DEVICE – SPEAKER ONLY

FIRE ALARM SPEAKER/STROBE DEVICE – MOUNT 6” BELOW CEILING OR AT 6’-8” AFF, WHICHEVER IS LOWER.

INDICATED CANDELA INTENSITY

FIRE ALARM SPEAKER/STROBE SIGNALING DEVICE, RECESSED IN CEILING

FIRE ALARM SPEAKER ONLY DEVICE, RECESSED IN CEILING

NEW INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR

NEW INTELLIGENT 135 F FIXED & RATE OF RISE [15°F/M] [20°F/M] UNLESS NOTED ON THE PLANS

ADDRESSABLE MONITOR MODULE

ADDRESSABLE CONTROL MODULE

NEW SPRINKLER TAMPER SWITCH [PROVIDE ADDRESSABLE MODULE]

NEW SPRINKLER FLOW SWITCH [PROVIDE ADDRESSABLE MODULE]

SYSTEMS:

STANDARD INFORMATION OUTLET, WALL MOUNTED AT 18” AFF UNLESS NOTED OTHERWISE. (ROUTE PLENUM RATED CAT 6 CABLING BACK TO CBB INDICATED ON DRAWINGS. OWNER SHALL BE RESPONSIBLE FOR PATCHING OF HORIZONTAL CABLING AND FOR PROVIDING ALL ACTIVE NETWORK ELECTRONICS.)

OUTLET HOUSING (2) VOICE JACKS ONLY

OUTLET HOUSING (2) DATA JACKS ONLY

OUTLET HOUSING BOTH (2) VOICE AND DATA JACKS

(W) VOICE JACK WITH WALL MOUNTED PHONE PLATE AT 54” AFF.

(C) OUTLET MOUNTED TO CEILING STRUCTURE

(L) COMMUNICATIONS FEED TO LANDSCAPE OFFICE PARTITIONS, WALL MOUNTED AT 12” AFF.

(AP) TELECOMMUNICATIONS OUTLET FOR WIRELESS ACCESS POINT. PROVIDE (1) DATA JACK TERMINATED WITH FEMALE 8P8C WITH A 25’ SERVICE LOOP..

SPEAKER – CEILING RECESSED

SPEAKER – CEILING SURFACE

SPEAKER – WALL SURFACE. WALL MOUNT 12” BELOW CEILING UNLESS NOTED OTHERWISE.

SPEAKER – WALL, RECESSED. WALL MOUNT 12” BELOW CEILING UNLESS NOTED OTHERWISE.

TV OUTLET AT 18” AFF UNLESS NOTED OTHERWISE.

COMMUNICATIONS BACKBOARD

ELECTRICAL CLOSET DESIGNATION

GENERAL:

ELECTRICAL PANEL – SEE SCHEDULE ON SHEET #E800

INDICATES DESIGNATION

SEE NOTE SYMBOL (INDICATES DETAIL DESIGNATION)

SEE DETAIL SYMBOL (INDICATES SHEET NUMBER)

CONDUCTOR QUANTITY IN A RACEWAY. NUMBERS INDICATE WIRE SIZES (AWG).

INDICATES PHASE CONDUCTOR

INDICATES NEUTRAL CONDUCTOR

INDICATES GREEN GROUND CONDUCTOR

MOUNTING HEIGHT TO CENTER LINE OF UNIT (AFF) ABOVE FINISHED FLOOR (ELEV) ELEVATION REFERENCE

CIRCUITING LEGEND

FIXTURE TYPE PER LIGHTING FIXTURE SCHEDULE.

DESIGNATION OF SWITCH CONTROLLING FIXTURE (NO DESIGNATION = ROOM LIGHT SWITCH).

CIRCUIT NUMBER WITH PANELBOARD DESIGNATION (LOCAL NORMAL POWER PANELBOARD IF NOT DESIGNATED).

ABBREVIATIONS:

ABV	ABOVE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CURRENT
AIE	ARCHITECT/ENGINEER
ALT	ALTERNATE
ARCH	ARCHITECT
ATS	AUTOMATIC TRANSFER SWITCH
BFG	BELOW FINAL GRADE
BLDG	BUILDING
C	CONDUIT
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CP	CONTROL PANEL
CS	COMBINATION STARTER
CT	CURRENT TRANSFORMER
DIR	DIRECT
DISC	DISCONNECT
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATION
EM	EMERGENCY
ENT	ELECTRICAL, NON-METALLIC TUBING
EMT	ELECTRIC METALLIC TUBING
EWC	ELECTRIC WATER COOLER
F	FLUSH
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FDR	FEEDER
FIXT	FIXTURE
FLR	FLOOR
FLA	FULL LOAD AMPS
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID CONDUIT
GRD	GROUND
GYP	GYPSUM BOARD
HP	HORSEPOWER
HVAC	HEATING & VENTILATING – AIR CONDITIONING
ID	INDIRECT
IMC	INTERMEDIATE METAL CONDUIT
INC	INCANDESCENT
IU	IN UNIT
J-BOX	JUNCTION BOX
LG	LAY-IN GRID
LTG	LIGHTING
LV	LOW VOLTAGE
MAG	MAGNETIC STARTER
MAN	MANUAL STARTER
MCB	MAIN CIRCUIT BREAKER
MCS	MOLDED CASE SWITCH
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NIC	NOT IN CONTRACT
NU	NEAR UNIT
OU	ON UNIT
P	POLE
PB	PUSHBUTTON
PC	PHOTO CONTROL
PLBG	PLUMBING CONTRACTOR
PNL	PANEL
R	RELAY
REC	RECESS
RECEPT	RECEPTACLE
RM	ROOM
SURF	SURFACE
SW	SWITCH
TC	TIME CLOCK
TCP	TEMPERATURE CONTROL PANEL
TCC	TEMPERATURE CONTROL CONTRACTOR
TS	TAMPER SWITCH
TYP	TYPICAL
UG	UNDERGROUND
UNIV	UNIVERSAL
WP	WEATHER-PROOF
XFMR	TRANSFORMER

SHEET INDEX:

E001	SYMBOLS & ABBREVIATIONS
E100	FLOOR PLANS
E800	SCHEDULES, ONLINE AND DETAILS

PLENUM NOTE:
RETURN AIR CEILING PLENUMS ARE UTILIZED ON THIS PROJECT. INSTALLATION SHALL BE INSTALLED IN SUCH A MANNER SO AS NOT TO BLOCK THE RETURN AIR PATH. ALL MATERIALS IN PLENUMS SHALL BE PLENUM RATED NON-COMBUSTIBLE MATERIALS.

assemblage ARCHITECTS

7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

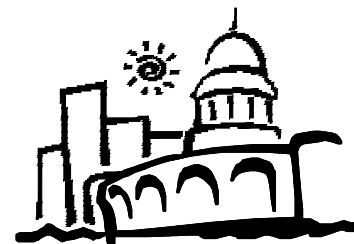
ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

T/ 608 821 8500
F/ 608 821 8501
A&O PROJECT #130158

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT

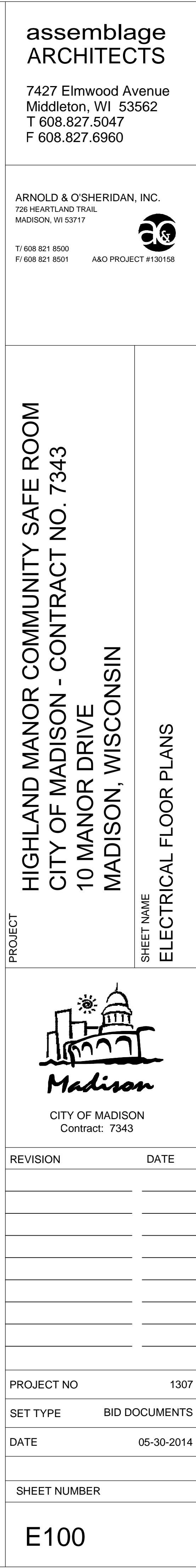
SHEET NAME
SYMBOLS & ABBREVIATIONS



CITY OF MADISON
Contract: 7343

REVISION	DATE
PROJECT NO	1307
SET TYPE	BID DOCUMENTS
DATE	05-30-2014
SHEET NUMBER	

E001



assemblage
ARCHITECTS

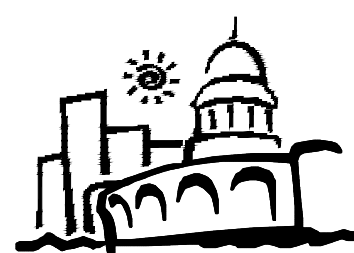
7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

T/ 608 821 8500
F/ 608 821 8501
A&O PROJECT #130158

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7104
10 MANOR DRIVE
MADISON, WISCONSIN

SHEET NAME
ELECTRICAL FLOOR PLANS



CITY OF MADISON
Contract: 7343

REVISION	DATE
ADDENDUM 2	6-24-14

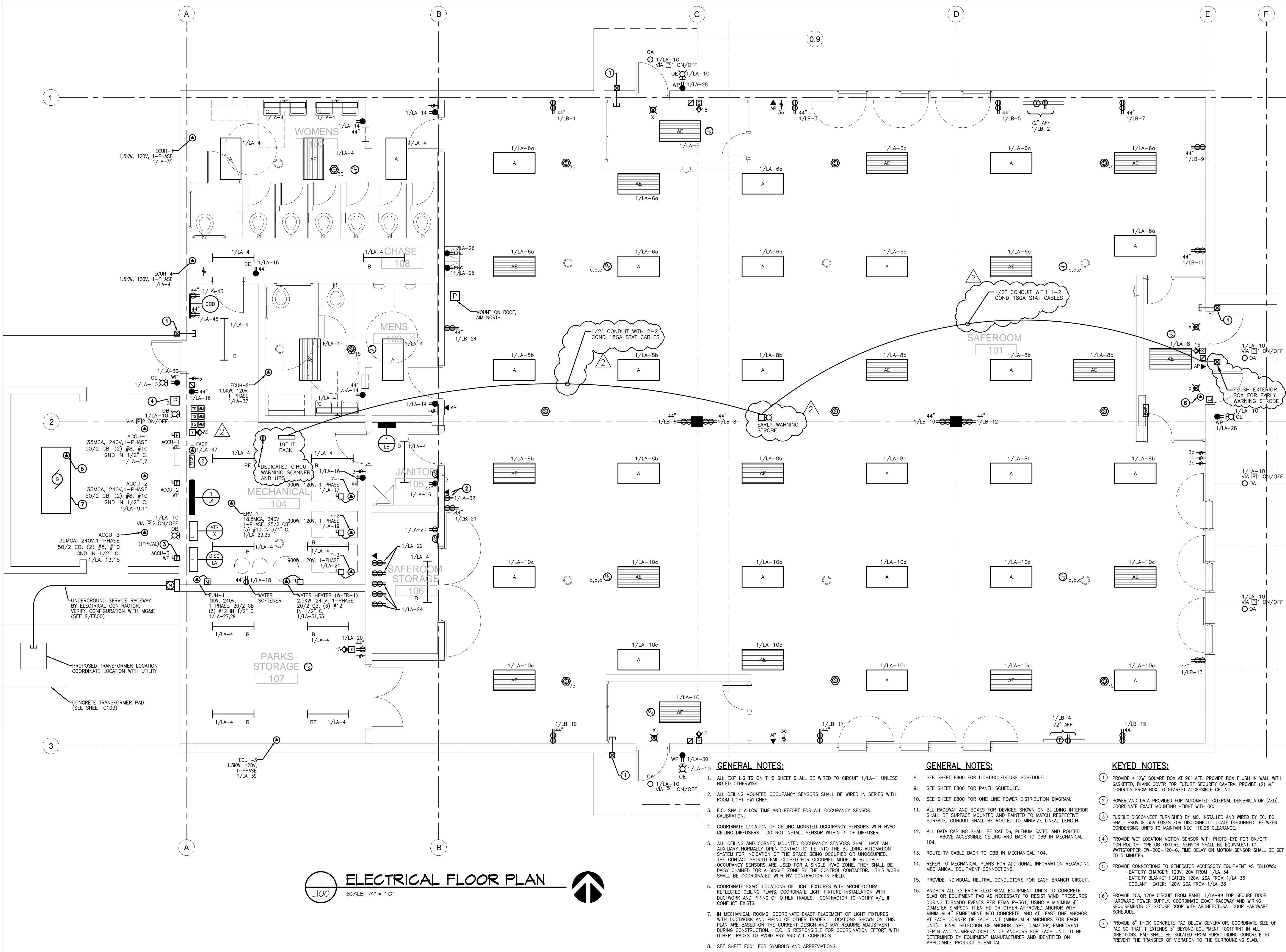
PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

E100



GENERAL NOTES:

- ALL EXIT LIGHTS ON THIS SHEET SHALL BE WIRED TO CIRCUIT 1/LA-1 UNLESS NOTED OTHERWISE.
- ALL CEILING MOUNTED OCCUPANCY SENSORS SHALL BE WIRED IN SERIES WITH ROOM LIGHT SWITCHES.
- E.C. SHALL ALLOW TIME AND EFFORT FOR ALL OCCUPANCY SENSOR CALIBRATION.
- COORDINATE LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS WITH HVAC CEILING DIFFUSERS. DO NOT INSTALL SENSOR WITHIN 3' OF DIFFUSER.
- ALL CEILING AND CORNER MOUNTED OCCUPANCY SENSORS SHALL HAVE AN AUXILIARY NORMALLY OPEN CONTACT TO TIE INTO THE BUILDING AUTOMATION SYSTEM FOR INDICATION OF THE SPACE BEING OCCUPIED OR UNOCCUPIED. THE CONTACT SHOULD FAIL CLOSED FOR OCCUPIED MODE. IF MULTIPLE OCCUPANCY SENSORS ARE USED FOR A SINGLE HVAC ZONE, THEY SHALL BE DAISS CHAINED FOR A SINGLE ZONE BY THE CONTROL CONTRACTOR. THIS WORK SHALL BE COORDINATED WITH HV CONTRACTOR IN FIELD.
- COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS. COORDINATE LIGHT FIXTURE INSTALLATION WITH DUCTWORK AND PIPING OF OTHER TRADES. CONTRACTOR TO NOTIFY A/E IF CONFLICT EXISTS.
- IN MECHANICAL ROOMS, COORDINATE EXACT PLACEMENT OF LIGHT FIXTURES WITH DUCTWORK AND PIPING OF OTHER TRADES. LOCATIONS SHOWN ON THIS PLAN ARE BASED ON THE CURRENT DESIGN AND MAY REQUIRE ADJUSTMENT DURING CONSTRUCTION. E.C. IS RESPONSIBLE FOR COORDINATION EFFORT WITH OTHER TRADES TO AVOID ANY AND ALL CONFLICTS.
- SEE SHEET E001 FOR SYMBOLS AND ABBREVIATIONS.

GENERAL NOTES:

- SEE SHEET E800 FOR LIGHTING FIXTURE SCHEDULE.
- SEE SHEET E800 FOR PANEL SCHEDULE.
- SEE SHEET E800 FOR ONE LINE POWER DISTRIBUTION DIAGRAM.
- ALL RACEWAY AND BOXES FOR DEVICES SHOWN ON BUILDING INTERIOR SHALL BE SURFACE MOUNTED AND PAINTED TO MATCH RESPECTIVE SURFACE. CONDUIT SHALL BE ROUTED TO MINIMIZE LINEAL LENGTH.
- ALL DATA CABLING SHALL BE CAT 5e, PLENUM RATED AND ROUTED ABOVE ACCESSIBLE CEILING AND BACK TO CBB IN MECHANICAL 104.
- ROUTE TV CABLE BACK TO CBB IN MECHANICAL 104.
- REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING MECHANICAL EQUIPMENT CONNECTIONS.
- PROVIDE INDIVIDUAL NEUTRAL CONDUCTORS FOR EACH BRANCH CIRCUIT.
- ANCHOR ALL EXTERIOR ELECTRICAL EQUIPMENT UNITS TO CONCRETE SLAB OR EQUIPMENT PAD AS NECESSARY TO RESIST WIND PRESSURES DURING TORNADO EVENTS PER FEMA P-361, USING A MINIMUM 3" DIAMETER SIMPSON TITEN HD OR OTHER APPROVED ANCHOR WITH MINIMUM 4" EMBEDMENT INTO CONCRETE, AND AT LEAST ONE ANCHOR AT EACH CORNER OF EACH UNIT (MINIMUM 4 ANCHORS FOR EACH UNIT). FINAL SELECTION OF ANCHOR TYPE, DIAMETER, EMBEDMENT DEPTH AND NUMBER/LOCATION OF ANCHORS FOR EACH UNIT TO BE DETERMINED BY EQUIPMENT MANUFACTURER AND IDENTIFIED ON APPLICABLE PRODUCT SUBMITTAL.

KEYED NOTES:

- PROVIDE 4 1/4" SQUARE BOX AT 96" AFF. PROVIDE BOX FLUSH IN WALL WITH GASKETED, BLANK COVER FOR FUTURE SECURITY CAMERA. PROVIDE (2) 3/4" CONDUITS FROM BOX TO NEAREST ACCESSIBLE CEILING.
- POWER AND DATA PROVIDED FOR AUTOMATED EXTERNAL DEFIBRILLATOR (AED). COORDINATE EXACT MOUNTING HEIGHT WITH GC.
- FUSIBLE DISCONNECT FURNISHED BY MC, INSTALLED AND WIRED BY EC. EC SHALL PROVIDE 35A FUSES FOR DISCONNECT. LOCATE DISCONNECT BETWEEN CONDENSING UNITS TO MAINTAIN NEC 110.26 CLEARANCE.
- PROVIDE WET LOCATION MOTION SENSOR WITH PHOTO-EYE FOR ON/OFF CONTROL OF TYPE OB FIXTURE. SENSOR SHALL BE EQUIVALENT TO WATSTOPPER EW-200-120-G. TIME DELAY ON MOTION SENSOR SHALL BE SET TO 5 MINUTES.
- PROVIDE CONNECTIONS TO GENERATOR ACCESSORY EQUIPMENT AS FOLLOWS:
-BATTERY CHARGER: 120V, 20A FROM 1/LA-34
-BATTERY BLANKET HEATER: 120V, 20A FROM 1/LA-36
-COOLANT HEATER: 120V, 20A FROM 1/LA-38
- PROVIDE 20A, 120V CIRCUIT FROM PANEL 1/LA-49 FOR SECURE DOOR HARDWARE POWER SUPPLY. COORDINATE EXACT RACEWAY AND WIRING REQUIREMENTS OF SECURE DOOR WITH ARCHITECTURAL DOOR HARDWARE SCHEDULE.
- PROVIDE 8" THICK CONCRETE PAD BELOW GENERATOR. COORDINATE SIZE OF PAD SO THAT IT EXTENDS 3" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. PAD SHALL BE ISOLATED FROM SURROUNDING CONCRETE TO PREVENT THE TRANSFER OF VIBRATION TO THE SURROUNDING SLAB.

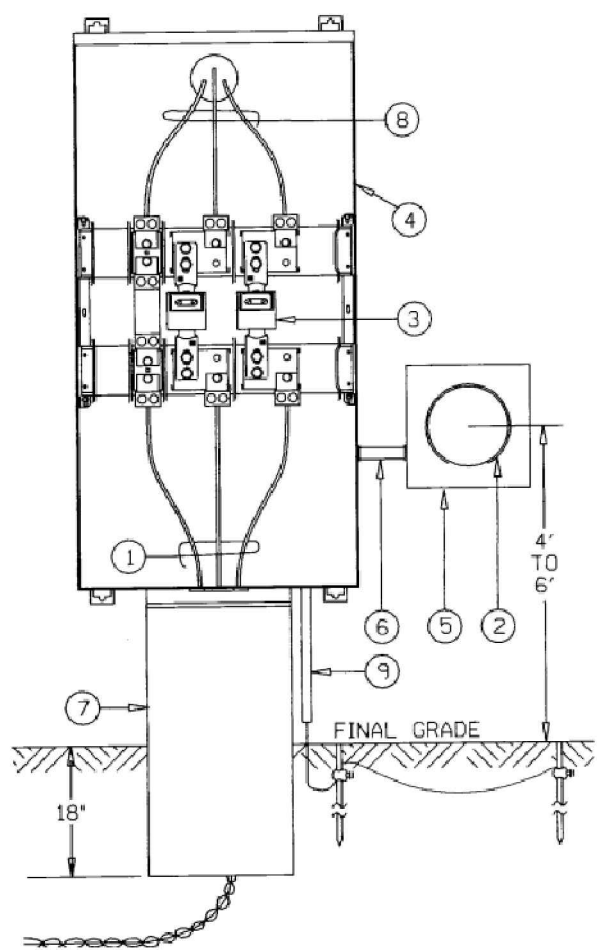
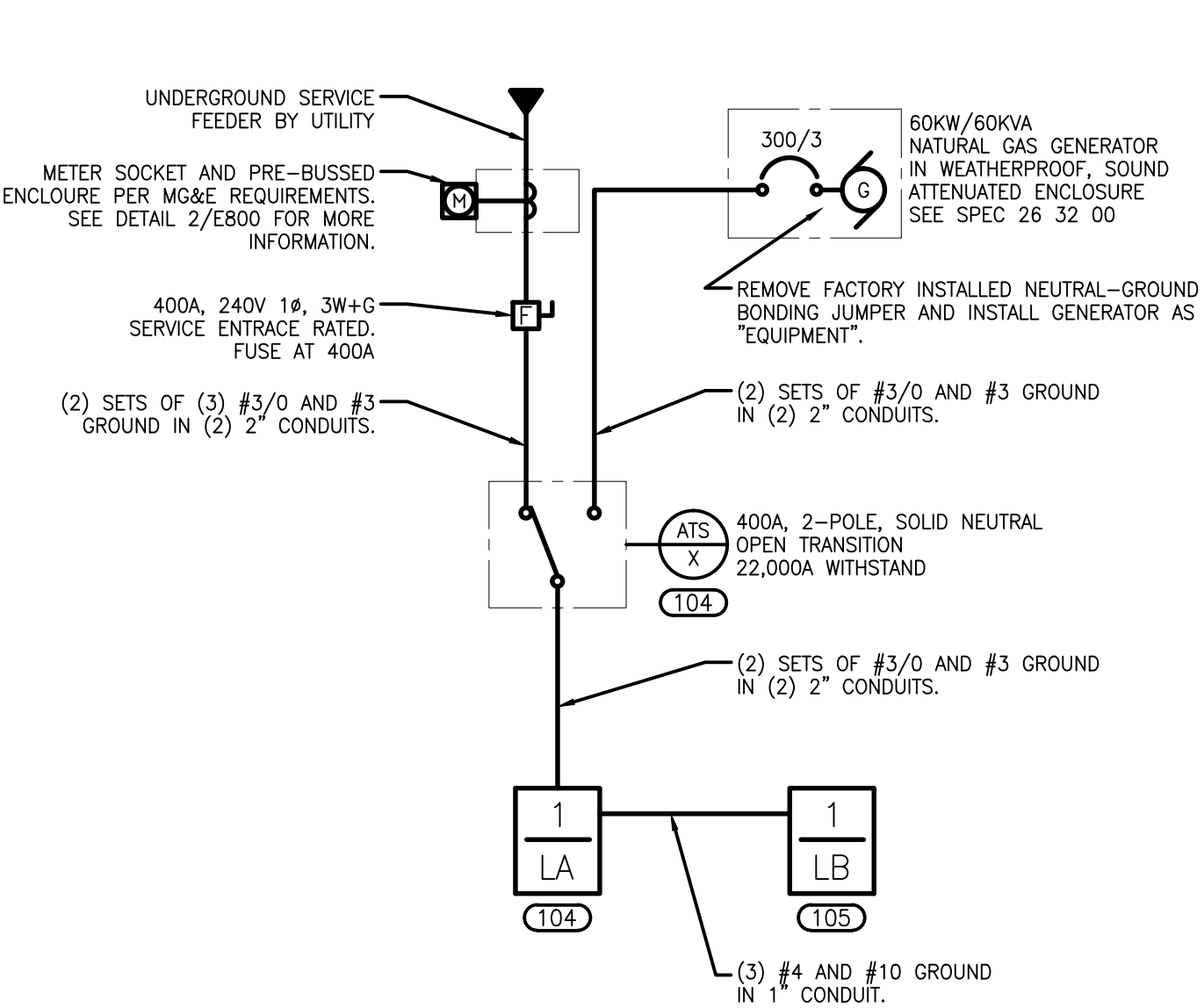
LIGHTING FIXTURE SCHEDULE													
NOTE: SEE SPECIFICATIONS SECTIONS 26 51 13 & 26 56 29 FOR ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS/ACCESSORIES". MANUFACTURERS LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.													
ABBREVIATIONS: DW = DRY WALL P = PENDANT S = SURFACE ES = EXPOSED STRUCTURE PL = PLASTER W = WALL MOUNTED LG = LAY-IN GRID R = RECESS V = VARIES													
DES.	LAMP DATA		DESCRIPTION	LIGHTING FIXTURE		VOLT	BALLAST TYPE	MOUNT	CEILING TYPE	FIXTURE DEPTH	OPTIONS/ACCESSORIES	ACCEPTABLE MANUFACTURERS	SEE NOTE
	NO.	TYPE		MANUFACTURER	CATALOG SERIES								
A	2	F32T8/XL/SPX41/XL/ECO	2'X4' VOLUMETRIC TROFFER	LITHONIA	RT8	120	A	R	LG	3 3/16"	—	APPROVED EQUAL	—
AE	2	F32T8/XL/SPX41/XL/ECO	2'X4' VOLUMETRIC TROFFER	LITHONIA	RT8	120	A	R	LG	3 3/16"	—	APPROVED EQUAL	1
B	2	F32T8/XL/SPX41/XL/ECO	4' INDUSTRIAL STRIP — CHAIN HUNG	LITHONIA	AF	120	A	S	ES	6 5/8"	—	APPROVED EQUAL	—
BE	2	F32T8/XL/SPX41/XL/ECO	4' INDUSTRIAL STRIP — CHAIN HUNG	LITHONIA	AF	120	A	S	ES	6 5/8"	—	APPROVED EQUAL	1
C	1	F32T8/XL/SPX41/XL/ECO	4' WALL BRACKET	COOPER	BA	120	A	W	NA	5 1/2"	—	APPROVED EQUAL	—
OA	—	LED W/ UNIT	LED SURFACE DOWNLIGHT	HALO	SLD405 830WH	120	—	S	CONC.	4.1"	—	APPROVED EQUAL	—
OB	—	LED W/ UNIT	LED WALL PACK	RAB	WPLD10SY	120	—	S	CONC.	4.1"	BRONZE	APPROVED EQUAL	2
OE	—	XENON W/ UNIT	EMERGENCY LIGHTING UNIT	LITHONIA	AFN	120	—	W	NA	2 3/4"	—	APPROVED EQUAL	2
X	—	LED W/ UNIT	THERMOPLASTIC EXIT SIGN	LITHONIA	LQM S G	120	—	S	LG	2"	NICKEL-CADMIUM BATTERY SELF-DIAGNOSTICS	APPROVED EQUAL	—

OPTIONS/ACCESSORIES CODE LISTING:					
01	AIR HANDLING CAPABILITY — RETURN AIR	14	DAMP LOCATION CONSTRUCTION	27	FURNISH WITH SYMMETRICAL REFLECTOR
02	3" DEEP PARABOLIC LOUVERS	15	STAINLESS STEEL TRIM & DOOR FRAME	28	FURNISH WITH ASYMMETRIC REFLECTOR
03	4" DEEP PARABOLIC LOUVERS	16	DIFFUSE (HAZE) CLEAR REFLECTOR	29	PATTERN 12 ACRYLIC LENS — .125" MIN. THICKNESS
04	SEMI-SPECULAR PARABOLIC LOUVER	17	REFLECTOR COLOR OTHER THAN CLEAR	30	PATTERN 12 ACRYLIC LENS — .156" MIN. THICKNESS
05	LOW IRIDESCENT PARABOLIC LOUVER	18	WHITE MILLIGROOVE BAFFLE	31	PATTERN 12 ACRYLIC LENS — .187" MIN. THICKNESS
06	FLAT ALUMINUM DOOR FRAME — MITERED CORNERS	19	BLACK MILLIGROOVE BAFFLE	32	FURNISH WITH SOLID FRONT
07	REGRESSED ALUMINUM DOOR FRAME	20	FURNISH WITH AUXILIARY QUARTZ RESTRIKE	33	FURNISH WITH PHOTO CELL
08	FLAT STEEL DOOR FRAME	21	FURNISH WITH SLOPE ADAPTER — VERIFY SLOPE	34	1/2" x 1/2" x 1/2" SILVER PARACUBE LOUVER
09	SINGLE GASKETED DOOR FRAME	22	FURNISH WITH AUXILIARY EMERGENCY BATTERY PACK	35	WHITE STRAIGHT BLADE LOUVERS
10	DOUBLE GASKETED DOOR FRAME	23	FURNISH WITH WIRE GUARD	36	FURNISH TRIM SUITABLE FOR USE WITH NARROW TEE CLG SUSPENSION SYST
11	TRIPLE-GASKETED DOOR FRAME, LENS & BODY	24	FURNISH CHAIN MOUNTING ACCESSORIES	37	CUSTOM PAINTED FINISH — COLOR AS SELECTED BY ARCH.
12	TRIPLE-GASKETED DOOR FRAME, LENS & BODY	25	FURNISH WITH RIGID PENDANT STEMS	38	FURNISH WITH DIMMABLE BALLAST
13	ANTIMICROBIAL PROTECTION PAINTED FINISH	26	FURNISH WITH SWIVEL CANOPY	39	FURNISH WITH LOW TEMPERATURE —20° BALLAST

BALLAST CODE LISTING: (SEE SPECIFICATION SECTION 26 51 13 FOR ADDITIONAL INFORMATION)													
A	T8 PROGRAM START, <10% THD, SYLVANIA QUICKTRONIC HIGH EFFICIENCY SERIES, HIGH BALLAST FACTOR 1.18 (MINIMUM), OR EQUAL BY ADVANCE OR UNIVERSAL.												

- GENERAL LIGHTING FIXTURE SCHEDULE NOTES:**
- EQUAL FIXTURES BY MANUFACTURER OTHER THAN THOSE LISTED IN THIS SCHEDULE WILL BE ACCEPTED SUBJECT TO A/E REVIEW AND APPROVAL PROCESS. ALL INTERESTED PARTIES SHALL SUBMIT THEIR CUT SHEET PACKAGE WITH EXACT FIXTURE CATALOG NUMBERS INCLUDING ALL ACCESSORIES A MINIMUM OF 10 DAYS BEFORE BIDS ARE DUE FOR REVIEW AND APPROVAL.
 - ONLY BALLAST SERIES IS INDICATED ON THIS SCHEDULE. REFER TO SPECIFICATIONS SECTION 26 51 13 FOR FURTHER INFORMATION. EACH FIXTURE SUBMITTAL SHALL BE PROVIDED WITH FULL BALLAST AND LAMP INFORMATION.
 - EACH FLUORESCENT FIXTURE SHALL BE SUPPLIED WITH QUICK DISCONNECTING MEANS FOR ALL BALLASTS AS REQUIRED BY NEC 410.73 AND AS MANUFACTURED BY THOMAS AND BETTS LD2 OR LD3 OR EQUAL.

- LIGHTING FIXTURE SCHEDULE NOTES:**
- PROVIDE FIXTURE WITH 3000 LUMEN EMERGENCY BALLAST.
 - MOUNT FIXTURE 96" ABOVE FINISHED GRADE TO CENTER OF FIXTURE.



COM-12
COMMERCIAL METERING TRANSFORMER CABINET
SINGLE-PHASE, THREE-WIRE, 250-VOLTS OR LESS
400 TO 600 AMPERES
SINGLE-METER INSTALLATION ONLY
SEQUENCE: METER-SWITCH-FUSE
(Not to be Used in the Low-Voltage Network Area)

DRAWING COM-12
COMMERCIAL METERING TRANSFORMER CABINET
SINGLE-PHASE, THREE-WIRE, 250-VOLTS OR LESS
400 TO 600 AMPERES
SINGLE METER INSTALLATION ONLY
SEQUENCE: METER-SWITCH-FUSE
(Not to be Used in the Low-Voltage Network Area)

- MGE Will Furnish:**
- Service conductors.
 - Electric meter.
 - Bar-type current transformers, installed by EC

- Electrical Contractor Will Provide :**
- MGE-approved prebussed-type enclosure with the proper number of termination lugs sized to accept 4/0 through 500 MCM AL/CU. (See **Table 4**.)
 - MGE-approved transformer rated meter socket. (See **Table 3A**.)
 - One-inch rigid conduit for meter wiring.
 - MGE-approved underground service raceway (12"x12"x24")
 - (1) Four-inch service conduit may be substituted for the raceway.
 - Conduit and wire to main distribution panel.
 - MGE conductors enter the bottom of the cabinet, the customer's conductors must exit the cabinet above the load-side termination lugs.
 - Ground in accordance with applicable electrical codes.

1-LA													
VOLTAGE : 120/240 VOLTS SINGLE PHASE, 3 WIRE CB OPT: ST - SHUNT TRIP 22kA AIC RATING BUS RATING : 400 AMPS AF - ARC FAULT CIRCUIT INTERRUPTER MAIN : 400A MCB GF - GROUND FAULT CIRCUIT INTERRUPTER BRANCHTYPE: NORMAL BRANCH SPECIAL OPTIONS: SURFACE MOUNT													
LOAD TYPE	LOAD (VA)	C N K O T	LOAD SERVED	CB AMP/P	C O B P T	PHASE	C O B P T	CB AMP/P	LOAD SERVED	C N K O T	LOAD (VA)	LOAD TYPE	
SUBFEED	3380	1	1-LB	60/2	-	A	B	20/1	Exit Lights	2	20	LIGHTING	
SUBFEED	3380	3	1-LB	-	-	A	B	20/1	RSTRMS, MECH, STRGE	4	1080	LIGHTING	
MISC	4200	5	ACCU-1	50/2	-	A	B	20/1	SAFEROOM NORTH	6	750	LIGHTING	
MISC	4200	7	-	-	-	A	B	20/1	SAFEROOM CENTER	8	750	LIGHTING	
MISC	4200	9	ACCU-2	50/2	-	A	B	20/1	SAFERIM S. & EXTERIOR	10	840	LIGHTING	
MISC	4200	11	-	-	-	A	B	20/1	SPARE	12			
MISC	4200	13	ACCU-3	50/2	-	A	B	20/1	102, 103	14	720	RECEPTACLE	
MISC	4200	15	-	-	-	A	B	20/1	104, 105	16	540	RECEPTACLE	
HEAT	900	17	F-1	20/1	-	A	B	20/1	WATER SOFTENER	18	250	RECEPTACLE	
HEAT	900	19	F-2	20/1	-	A	B	20/1	106, 107	20	350	RECEPTACLE	
HEAT	900	21	F-3	20/1	-	A	B	20/1	108 CHARGING	22	720	RECEPTACLE	
MISC	2220	23	ERV-1	25/2	-	A	B	20/1	105 CHARGING	24	1080	RECEPTACLE	
MISC	2220	25	ERV-1	-	-	A	B	20/1	EWC	26	500	RECEPTACLE	
HEAT	1500	27	EUH-1	20/2	-	A	B	20/1	N AND E EXTERIOR	28	350	RECEPTACLE	
HEAT	1500	29	EUH-1	-	-	A	B	20/1	S AND W EXTERIOR	30	350	RECEPTACLE	
MISC	1250	31	WHTR-1	20/2	-	A	B	20/1	AED	32	180	RECEPTACLE	
MISC	1250	33	-	-	-	A	B	20/1	BATTERY CHARGER	34	500	MISC	
HEAT	1500	35	ECUH-1	20/1	-	A	B	20/1	BATTERY BLANKET	36	500	MISC	
HEAT	1500	37	ECUH-2	20/1	-	A	B	20/1	COOLANT HEATER	38	500	MISC	
HEAT	1500	39	ECUH-3	20/1	-	A	B	20/1	SPARE	40			
HEAT	1500	41	ECUH-4	20/1	-	A	B	20/1	SPARE	42			
RECEPTACLE	500	43	RECEPTACLE	20/1	-	A	B	20/1	SPARE	44			
RECEPTACLE	500	45	RECEPTACLE	20/1	-	A	B	20/1	SPARE	46			
MISC	1000	47	FACP	20/1	-	A	B	20/1	SPARE	48			
MISC	200	49	DOOR POWER SUPPLY	20/1	-	A	B		SPACE	50			
		51	SPACE		-	A	B		SPACE	52			
		53	SPACE		-	A	B		SPACE	54			
		55	SPACE		-	A	B		SPACE	56			
		57	SPACE		-	A	B		SPACE	58			
		59	SPACE		-	A	B		SPACE	60			

1-LB													
VOLTAGE : 120/240 VOLTS SINGLE PHASE, 3 WIRE CB OPT: ST - SHUNT TRIP 22kA AIC RATING BUS RATING : 100 AMPS AF - ARC FAULT CIRCUIT INTERRUPTER MAIN : MLO GF - GROUND FAULT CIRCUIT INTERRUPTER BRANCHTYPE: NORMAL BRANCH SPECIAL OPTIONS: SURFACE MOUNT													
LOAD TYPE	LOAD (VA)	C N K O T	LOAD SERVED	CB AMP/P	C O B P T	PHASE	C O B P T	CB AMP/P	LOAD SERVED	C N K O T	LOAD (VA)	LOAD TYPE	
RECEPTACLE	350	1	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	2	500	RECEPTACLE	
RECEPTACLE	350	3	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	4	500	RECEPTACLE	
RECEPTACLE	350	5	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	6	350	RECEPTACLE	
RECEPTACLE	350	7	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	8	350	RECEPTACLE	
RECEPTACLE	350	9	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	10	350	RECEPTACLE	
RECEPTACLE	350	11	RECEPTACLE	20/1	-	A	B	20/1	RECEPTACLE	12	350	RECEPTACLE	
RECEPTACLE	350	13	RECEPTACLE	20/1	-	A	B	20/1	SPARE	14			
RECEPTACLE	350	15	RECEPTACLE	20/1	-	A	B	20/1	SPARE	16			
RECEPTACLE	350	17	RECEPTACLE	20/1	-	A	B	20/1	SPACE	18			
RECEPTACLE	350	19	RECEPTACLE	20/1	-	A	B	20/1	SPACE	20			
RECEPTACLE	350	21	RECEPTACLE	20/1	-	A	B		SPACE	22			
RECEPTACLE	350	23	RECEPTACLE	20/1	-	A	B		SPACE	24			

Table 3A.

APPROVED TRANSFORMER-RATED METER SOCKETS

Supplier	120/240 Volt Single-Phase (Requires use of fifth terminal at nine o'clock)	120/208-Volt Single-Phase 240 Volt Three-Phase	120/208 Volt Three-Phase	277/480 Volt Three-Phase
Anchor	URS7004G-B	RTSS8	RTSS13	RTSS13
Milbank	U7487-KK-TG	UC7448	UC7449	UC7449
Superior	LRLO0412VA	RLP11577AH	RLP11577BA	RLP11577BA
Landis & Gyr	U9837-8101	U9837-8401	U9837-8501	U9837-8501
Erickson	W-130	W-130	W-340	W-340
RJB	-	MS-2033-8	MS-2034-13	MS-2034-13

Table 4.

APPROVED TRANSOCKETS

Supplier	Size	Single-Phase	Three-Phase
Erickson	400A 600A 800A 1,200A 1,600A	MGE1182-1 MGE283-1	MGE1182-2 MGE283-2 MGE283-2 CT-124MGE CT-164MGE
RJB Enterprises	400A 600A 800A 1,200A 1,600A	MGE-403UG MGE-603UG	MGE-404UG MGE-604UG MGE-804UG MGE-1204UG MGE-1604UG
AMP Manufacturing and Supply	400A 600A 800A 1,200A	ACT4-3TM ACT6-3TM	ACT4-4TM ACT6-4TM ACT8-4TM ACT12-4TM

assemblage ARCHITECTS

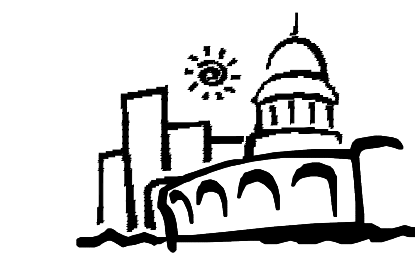
7427 Elmwood Avenue
Middleton, WI 53562
T 608.827.5047
F 608.827.6960

ARNOLD & O'SHERIDAN, INC.
726 HEARTLAND TRAIL
MADISON, WI 53717

T/ 608 921 8500
F/ 608 921 8501
A&O PROJECT #130158

HIGHLAND MANOR COMMUNITY SAFE ROOM
CITY OF MADISON - CONTRACT NO. 7343
10 MANOR DRIVE
MADISON, WISCONSIN

PROJECT



CITY OF MADISON
Contract: 7343

REVISION DATE

PROJECT NO 1307

SET TYPE BID DOCUMENTS

DATE 05-30-2014

SHEET NUMBER

E800