

**Addendum #12**

**East Lake Community Center Renovations**

**CONTRACT NO. Y-17-005**

**Bid schedule per Addendum #11**

Pre-Bid Meeting            January 9<sup>th</sup>, 2020 at 10:00am  
Pre-bid Meeting #2        February 18<sup>th</sup>, 2020 at 10:00am  
Last Day for Questions    March 6<sup>th</sup>, 2020  
Bid Opening                March 12<sup>th</sup>, 2020 at 2:00 pm

**Attachments:**

1. Compiled Plan Set- all drawing changes made in previous addendums have been compiled into one plan set. This set is for reference only. Bidders are still required to purchase a set of plans from the City of Chattanooga Purchasing Department.

END OF ADDENDUM #10

# CITY OF CHATTANOOGA, TENNESSEE

## CONTRACT #Y-17-005-101

### EAST LAKE YFD CENTER IMPROVEMENTS

RICHARD THOMPSON 12-20-2019  
 ARCHITECT  
 STATE LICENSE NO. 17840



APPROVED FOR RELEASE 12-20-2019  
 WILLIAM C. PAYNE, PE  
 CITY ENGINEER

CHARLES WINKLER 12-20-2019  
 ELECTRICAL ENGINEER  
 STATE LICENSE NO. 104601



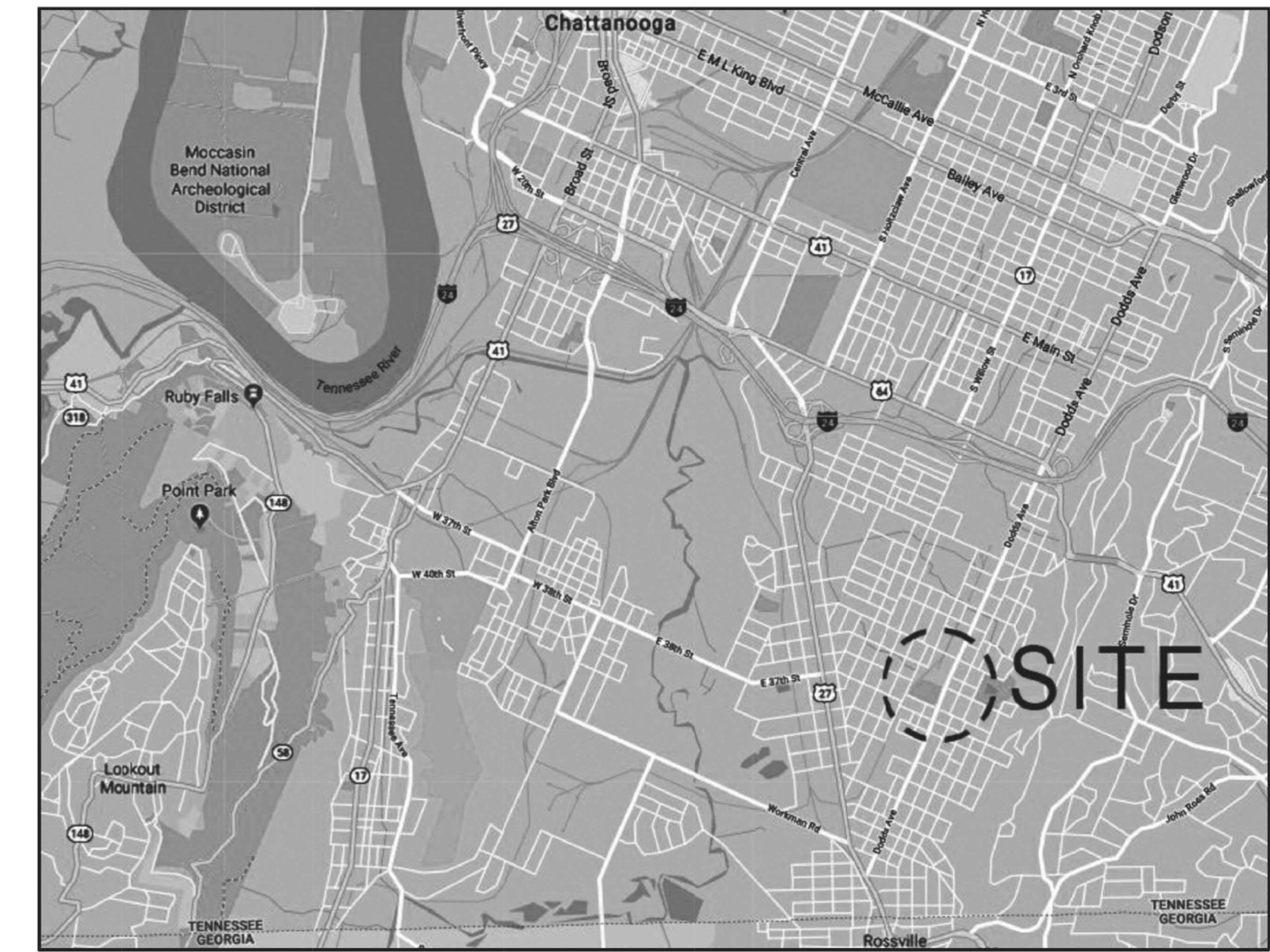
JEFF WESTBROOK 12-20-2019  
 MECHANICAL, PLUMBING, FIRE  
 PROTECTION ENGINEER  
 STATE LICENSE NO. 110599



VALENTINO BATES 12-20-2019  
 STRUCTURAL ENGINEER  
 STATE LICENSE NO. 00101888



JOE B. HUTCHERSON 12-20-2019  
 CIVIL ENGINEER  
 STATE LICENSE NO. 13152



MAYOR  
 ANDY BERKE

LOCATION MAP

CITY COUNCIL

- DISTRICT 1 – CHIP HENDERSON – VICE CHAIR
- DISTRICT 2 – JERRY MITCHELL
- DISTRICT 3 – KEN SMITH, CHAIR
- DISTRICT 4 – DARRIN LEDFORD
- DISTRICT 5 – RUSSELL GILBERT, SR.
- DISTRICT 6 – DR. CAROL B. BERZ
- DISTRICT 7 – ERSKINE OGLESBY, JR. –CHAIR
- DISTRICT 8 – ANTHONY BYRD
- DISTRICT 9 – DEMETRUS COONROD

DEPARTMENT OF PUBLIC WORKS  
 JUSTIN C. HOLLAND, ADMINISTRATOR



# East Lake YFD Center Improvements

3610 Dodds Avenue,  
Chattanooga, TN 37402

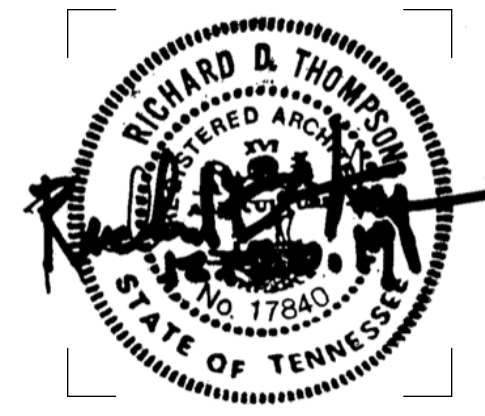


## INDEX OF DRAWINGS

Sheet Number	Sheet Name	12-20-19	ADD 1, 2 & 3 BY CITY	1-10-20 ADD 4	ADD 5 BY CITY	1-14-20 ADD 6	ADD 7 BY CITY	1-21-20 ADD 8	1-22-20 ADD 9	01-24-20 ADD 10	ADD 11 BY CITY
<b>GENERAL</b>											
T1.1	TITLE SHEET	X	X								
T1.2	BUILDING CODE SUMMARY	X	X								
T1.3	LIFE SAFETY PLAN	X									
T1.4	ADA COMPLIANCE STANDARDS	X									
T1.5	ADA COMPLIANCE STANDARDS	X									
<b>CIVIL</b>											
C0.1	GENERAL NOTES	X									
C1.1	SITE STAKING PLAN	X									
C1.2	SITE GRADING PLAN	X			X						
C2.1	EROSION CONDITIONS & DEMO PLAN	X			X						
C2.2	EROSION CONDITIONS & DEMO PLAN	X			X						
C3.1	SITE GRADING PLAN	X									
C3.2	SITE GRADING PLAN	X									
C4.1	SITE UTILITIES PLAN	X									
C5.0	SEDIMENT & EROSION CONTROL NOTES & DETAILS	X									
C5.1	SEDIMENT & EROSION CONTROL PLAN, PHASE I	X							X		
C5.2	SEDIMENT & EROSION CONTROL PLAN, PHASE II	X									
C6.1	LANDSCAPE PLAN	X									
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C7.0	SITE DETAILS	X									
C8.0	DRAINAGE DETAILS	X									
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A1.1D	FIRST FLOOR DEMOLITION PLAN	X									
A1.1F	FINISH PLAN	X	X								
A1.2	INTERIOR PARTITION HEIGHTS	X	X								
A1.2D	ROOF DEMOLITION PLAN	X									
A2.1	EXTERIOR ELEVATIONS	X	X								
A3.1	BUILDING SECTIONS	X	X								
A3.2	EXTERIOR WALL SECTIONS	X	X								
A3.3	EXTERIOR WALL SECTIONS	X	X								
A3.4	EXTERIOR WALL SECTIONS	X	X								
A4.1	ROOF PLAN	X	X								
A4.2	ROOF DETAILS	X	X								
A5.1	ENLARGED PLANS & DETAILS	X	X								
A5.2	ENLARGED PLANS & DETAILS	X	X								
A5.5	SITE AMENITIES	X	X						X		
A6.1	ENLARGED PLANS	X	X		X						
A6.2	INTERIOR ELEVATIONS	X	X								
A6.3	INTERIOR ELEVATIONS	X	X								
A6.4	INTERIOR ELEVATIONS	X	X								
A6.5	INTERIOR MILLWORK DETAILS	X	X								
A7.1	REFLECTED CEILING PLAN	X	X						X		
A7.2	CEILING DETAILS	X	X								
A8.1	DOOR SCHEDULE & DETAILS	X	X								
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<b>STRUCTURAL</b>											
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S0.1	GENERAL NOTES 2	X									
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S1.1	ROOF FRAMING PLAN	X	X								
S2.0	SECTIONS 1	X									
S2.1	SECTIONS	X		X							
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E2.0	LIGHTING PLAN	X	X								
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E3.1	POWER PLAN ROOF	X	X								
E3.2	SINGLE LINE DIAGRAM	X	X								
E3.3	PANEL SCHEDULES	X	X								
E4.0	FIRE ALARM PLAN	X	X							X	
E5.0	AUXILIARY PLAN	X	X								
E5.1	SOUND DIAGRAMS	X	X								
E5.2	SOUND RACK DETAILS	X	X								

**ARTECH**  
1410 CONWART STREET  
CHATTANOOGA, TN 37408  
423.265.4313  
WWW.ARTECH.PRO

**East Lake YFD Center  
Improvements**  
3610 Dodds Avenue, Chattanooga, TN 37402



ISSUE DATES

INITIAL ISSUE	12-20-19
1 Addendum 4	01/10/2020
2 Addendum 6	01/14/2020
3 Addendum 8	01/21/2020
4 Addendum 9	01/22/2020
5 Addendum 10	01/24/2020

JOB NO. 18-072 | D'WN 18-072 | CKD 18-072  
Author | Checker

**T1.1**  
TITLE SHEET





## GENERAL NOTES

- WHERE A DETAIL IS SHOWN OR NOTE IS DESCRIBED FOR ONE CONDITION IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS AFFECTING THIS PROJECT PRIOR TO FABRICATION OR INSTALLATION OF NEW WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES FROM DIMENSIONS SHOWN, NOTED OR REQUIRED. ADJUST DIMENSIONS OF NEW CONSTRUCTION AT DIRECTION OF ARCHITECT TO ALLOW FOR ACTUAL FIELD DIMENSIONS.
- PROVIDE OPENINGS WITH LINTELS OR HEADERS IN WALLS/PARTITIONS AS REQUIRED FOR MECHANICAL, ELECTRICAL AND PLUMBING WORK.
- PROVIDE WOOD BLOCKING AS REQUIRED IN WALLS FOR ALL WALL MOUNTED CASEWORK, SHELVES, EQUIPMENT, ACCESSORIES, AND AS INDICATED FOR INSTALLATION OF EQUIPMENT BY OTHERS.
- WOOD BLOCKING AND/OR NAILERS ARE GENERALLY SHOWN IN A GENERIC FASHION - CONTRACTOR MUST COORDINATE EXACT BLOCKING REQUIREMENTS WITH COMPONENT MANUFACTURER'S SUGGESTIONS OR STANDARDS, AND WITH OTHER TRADES.

## SYMBOLS

**1 View Name**  
SCALE: 1/8" = 1'-0"

**1** SIM  
AX.X

**1** SIM  
AX.X

**1** SIM  
AX.X

**AX.X** XX

**XX** AX.X

**Room Name**  
XX

**XX**

**XX**

**1i**

**+XX'**

**REVISION SYMBOL**

TITLE SYMBOL

SECTION SYMBOL  
SECTION #X  
SHEET #AX.X

DETAIL SYMBOL  
DETAIL #X  
SHEET #AX.X

ENLARGED DETAIL SYMBOL  
DETAIL #X  
SHEET #AX.X

INTERIOR ELEVATION SYMBOL  
ELEVATION #XX  
SHEET #AX.X

EXTERIOR ELEVATION SYMBOL  
ELEVATION #XX  
SHEET #AX.X

INTERIOR ROOM SYMBOL  
ROOM #XXX

DOOR SYMBOL  
DOOR #XXX

STOREFRONT SYMBOL  
SEE STOREFRONT SCHEDULE

WALL TYPES SYMBOL  
SEE WALL/PARTITION LEGEND

FINISH ELEVATION SYMBOL  
ELEVATION NUMBER

REVISION SYMBOL

## CONTACT LIST

**OWNER:**  
CITY OF CHATTANOOGA DEPARTMENT OF PUBLIC WORKS  
ENGINEERING DIVISION  
Suite 2100, Development Resource Center  
1250 Market Street  
Chattanooga, TN 37402  
CONTACT: CLAY OLIVER P:(423) 643-6161  
EMAIL: moliver@chattanooga.gov

**ARCHITECT:**  
ARTECH DESIGN GROUP  
1410 COWART STREET CHATTANOOGA, TN 37408  
CONTACT: MARK WYNNEMER P:(423) 664-0617  
EMAIL: markw@artech.pro

**ENGINEERS:**  
**STRUCTURAL & ELECTRICAL**  
KHAFFRA  
225 Peachtree Street, NE  
Suite 1600  
Atlanta, GA 30303  
CONTACT: DIETRICH BANKHEAD P:(404) 525-2120  
EMAIL: dbankhead@khaфра.com

**CIVIL, MECHANICAL, PLUMBING, FIRE PROTECTION**  
MARCH ADAMS & ASSOCIATES, INC.  
P.O. Box 3689  
310 Dodds Avenue  
Chattanooga, TN 37404  
CONTACT: JEFF WESTBROOK P:(423) 664-1470  
EMAIL: jeff.westbrook@marchadams.com

## WALL LEGEND

### WALL/PARTITION NOTES:

- REFER TO WALL SECTIONS FOR CONSTRUCTION OF EXTERIOR WALLS.
- SPECIAL CONDITIONS AND SPECIAL PARTITIONS ARE INDICATED ON PLANS AND DETAILS.
- WALLS SHOWN WITH MORE THAN ONE INDICATOR SHALL CONTAIN ALL COMPONENTS OF THE WALL TYPES INDICATED.
- ALL INTERIOR STUD SPACING TO BE 16" O.C. UNLESS NOTED OTHERWISE.
- ALL INTERIOR METAL STUD WALLS TO BE 20 GAUGE UNLESS NOTED OTHERWISE.
- PROVIDE SOUND WOOD BLOCKING IN WALLS AT ALL TOILET ACCESSORY, DOOR STOP AND TOILET PARTITION LOCATIONS AS REQUIRED.

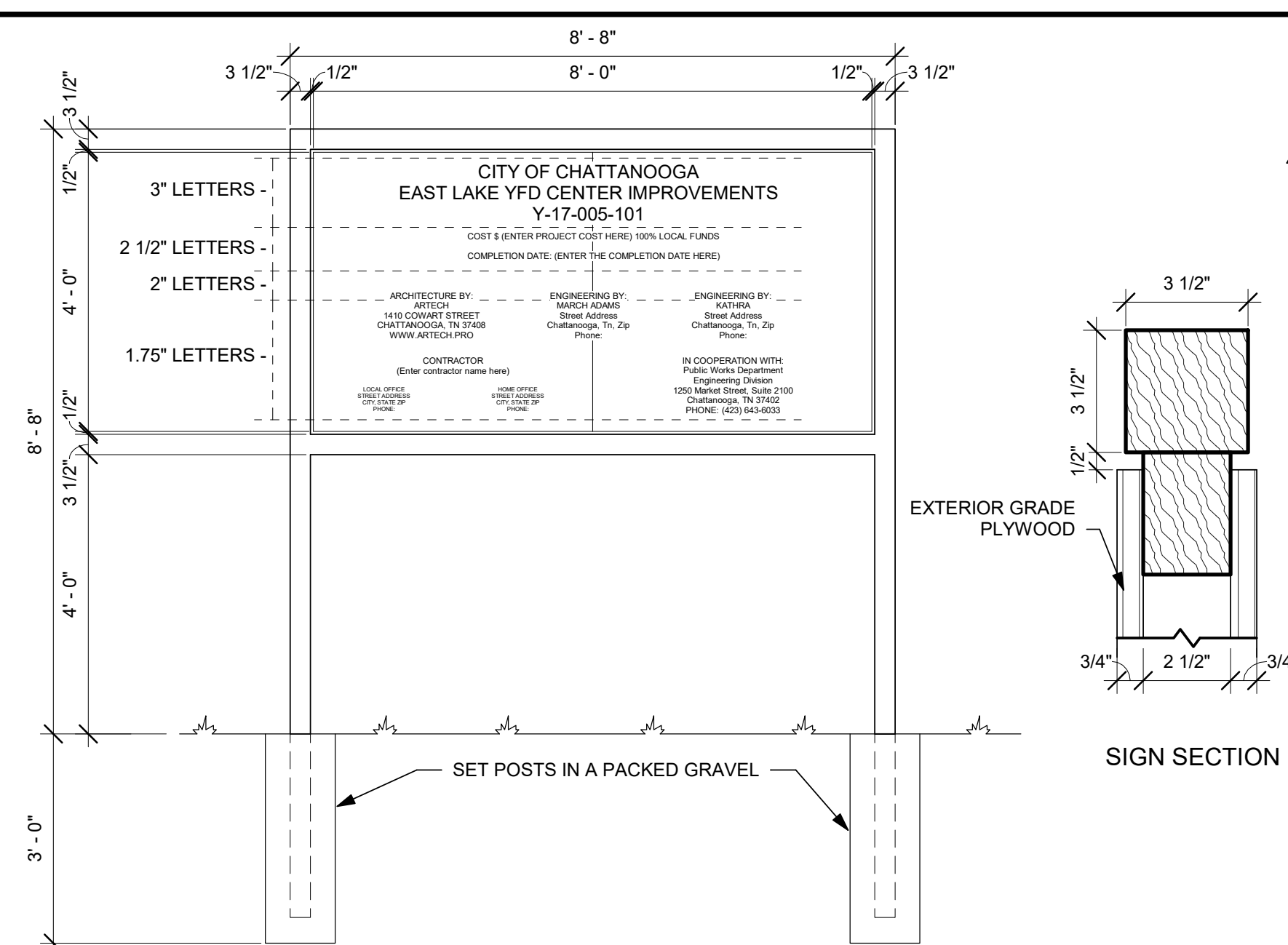
### PARTITION LEGEND:

<b>1</b>		3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM WALLBOARD EACH SIDE.
<b>1A</b>		6" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM WALLBOARD EACH SIDE.
<b>1B</b>		3-5/8" METAL STUDS @ 16" O.C. W/ 5/8" GYPSUM WALLBOARD EACH SIDE. 3-5/8" FIBERGLASS SOUND ATTENUATING BATT'S IN ALL STUD CAVITIES
<b>2</b>		2-1/2" METAL STUD FURRING WITH 5/8" GYPSUM WALLBOARD ONE SIDE.
<b>3</b>		CMU (NOMINAL 8" x 8" x 16") IN RUNNING BOND PATTERN. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT.
<b>4</b>		DOUBLE STUDDED WALL W/ 3-5/8" METAL STUDS @ 16" O.C. & 5/8" GLASS-MAT FACED GYPSUM WALLBOARD ON 2 OUTER FACES. GYPSUM WALLBOARD CROSS BRACE EVERY 48" O.C. LOCATED AT MID-HEIGHT OF PARTITION

### CONSTRUCTION ELEMENT LEGEND:

	EXISTING CONSTRUCTION TO REMAIN.
	EXISTING CONSTRUCTION TO BE REMOVED.
	NEW CONSTRUCTION.

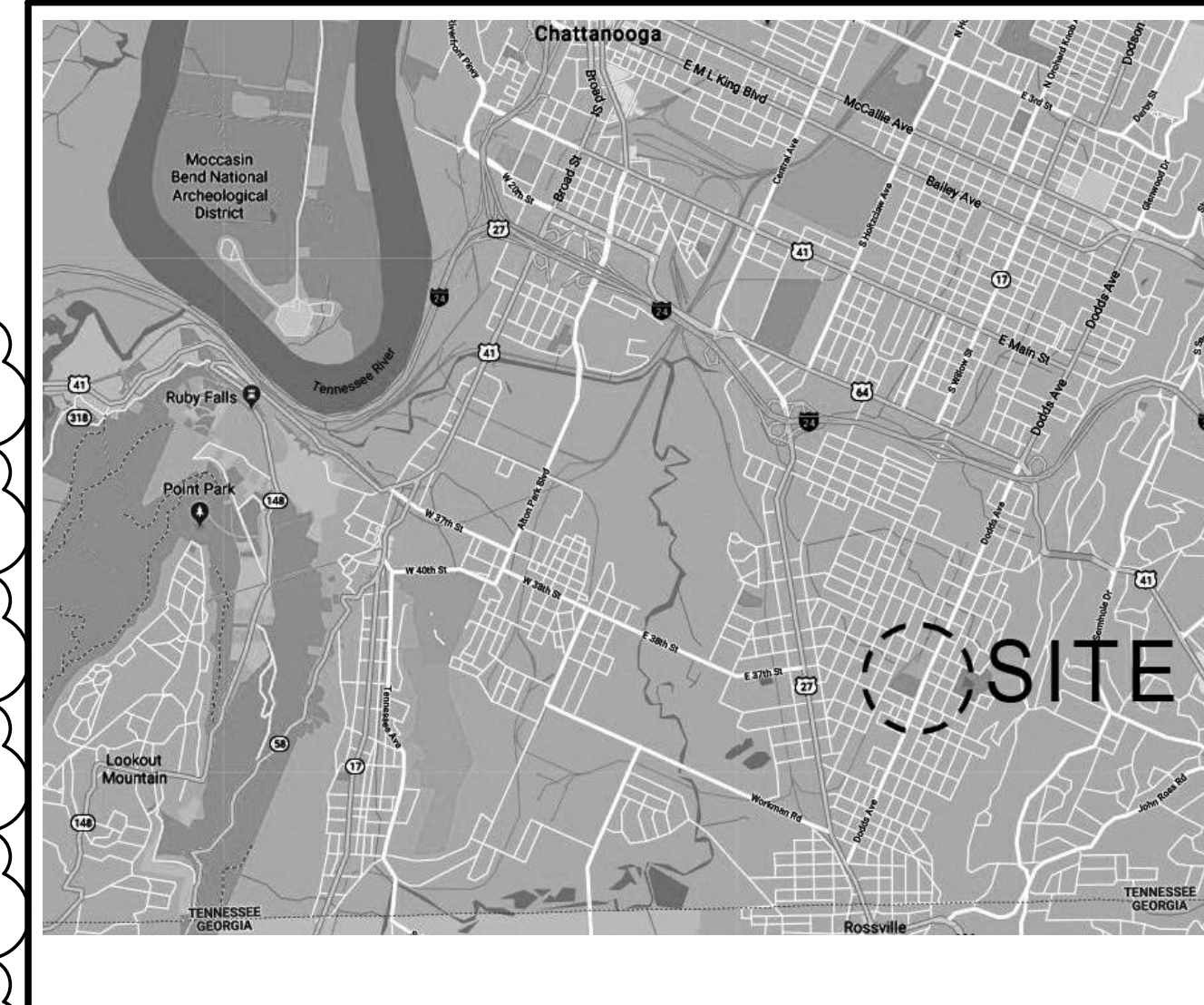
## PROJECT SIGN



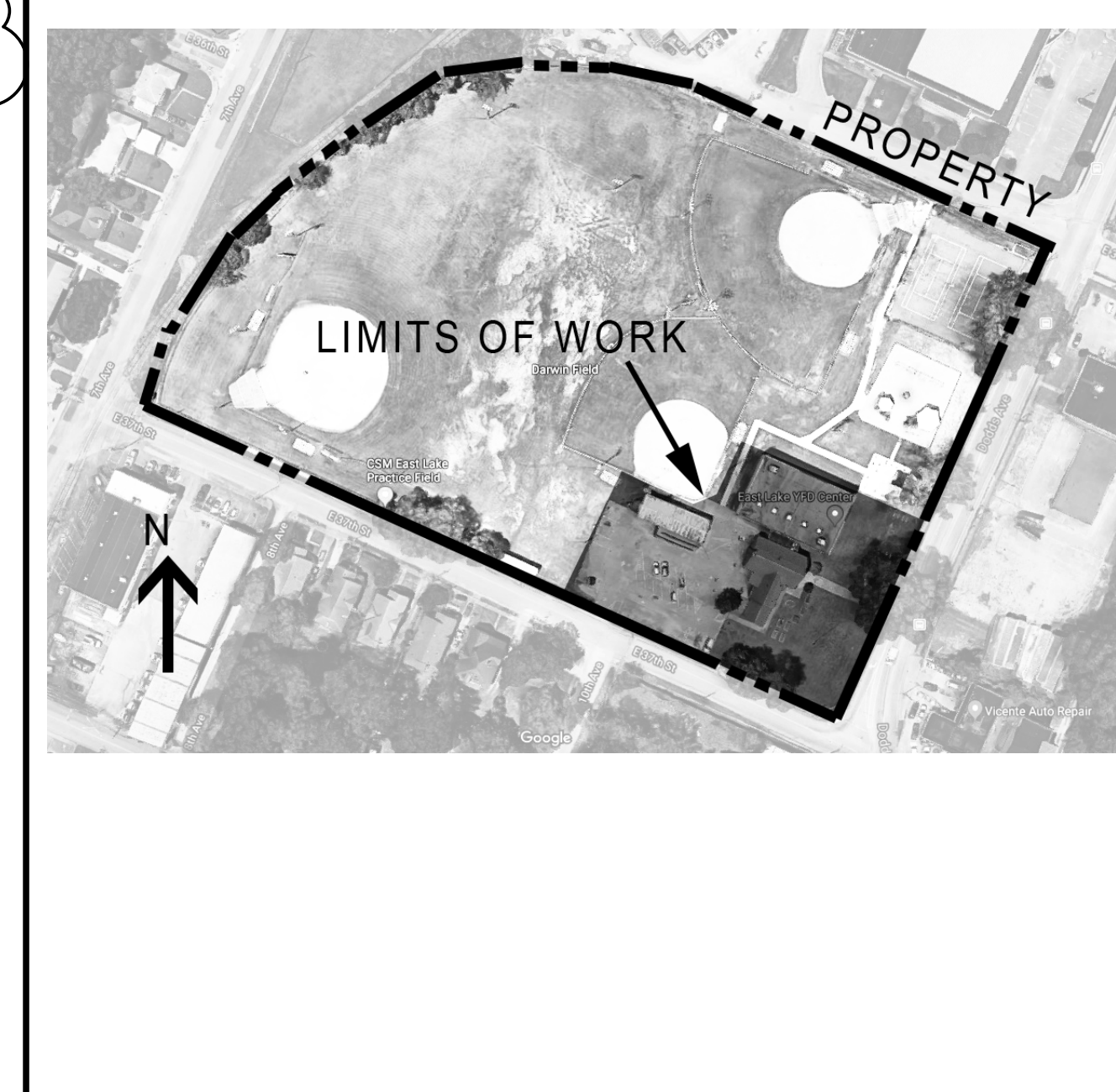
**PROJECT SIGN NOTES**

- THE CONTRACTOR SHALL ERECT TWO SIGNS AT LOCATIONS DESIGNATED BY THE CITY ENGINEER, AND SHALL BE MAINTAINED IN GOOD CONDITION UNTIL COMPLETION OF THE PROJECT.
- ALL FRAME MATERIALS TO BE EXTERIOR GRADE.
- FRAME, TRIM AND LETTERS SHALL BE DARK BLUE. SIGN BACKGROUND SHALL BE WHITE.
- CONTRACTOR SHALL SUBMIT SIGN LAYOUT FOR APPROVAL PRIOR TO FABRICATION.

## VICINITY MAP



## KEY PLAN



## ENERGY

### THERMAL ENERGY SYNOPSIS

CONSTRUCTION ELEMENT	PROVIDED VALUE	ASSEMBLY DESCRIPTION
ROOFS (@ EXISTING BUILDING)	R-25ci	TAPERED RIGID INSULATION ON METAL DECK
ROOFS (METAL BUILDING)	R-19 +R-11LS	STANDARD PEMB INSULATED ROOF SYSTEM W/ R-5 THERMAL BLOCKS & INSULATED LINER SYSTEM
EXTERIOR WALLS, ABOVE GRADE	R-13 + R-3.8 C1 OR R-20	RIGID INSULATION ON CMU W/ UNGROUTED CORES HAVING MAX THERMAL CONDUCTIVITY OF 0.44 Btu/h-in/h - F - F
FLOORS	-	-
SLAB ON GRADE FLOORS	0	-
OPAQUE DOORS (SWINGING)	U-0.61	INSULATED HOLLOW METAL
FENESTRATION U FACTOR/ SHGC	STOREFRONT U-0.38/0.40 ENTRY DOORS U-0.77/0.40 WINDOWS U-0.38/0.40	

### THERMAL ENVELOPE NOTES:

- THERMAL ENVELOPE AND ENERGY EFFICIENCY ELEMENTS SHALL MEET THE REQUIREMENTS OF THE INTERNATIONAL ENERGY CONSERVATION CODE (IECC) - 2009 ONE OR MORE OF THE FOLLOWING METHODS, AS KEYED BY LETTER. NOT ALL METHODS WILL APPLY TO THIS PROJECT.
- CLIMATE ZONE FOR THIS PROJECT AS DETERMINED IN IECC CHAPTER 3 IS ZONE 4.
- THE ASSEMBLIES LISTED ABOVE COMPLY WITH THE IECC REQUIREMENTS UNDER ONE OR MORE OF THE FOLLOWING METHODS, AS KEYED BY LETTER. NOT ALL METHODS WILL APPLY TO THIS PROJECT.

- TABLE 502.2(1) BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES.
- TABLE 502.3 BUILDING ENVELOPE REQUIREMENTS: FENESTRATION (MAXIMUM U VALUE)
- TABLE 502.1.2 BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAX U FACTOR.
- COMPLIANCE USING ASHRAE/IESNA 90.1 PER SECTION 501 OF IECC

LEGEND: NR - NO REQUIREMENT NA - NOT APPLICABLE CI - CONTINUOUS INSULATION

## CODE SUMMARY

### PROJECT INFORMATION

NAME OF PROJECT:	EAST LAKE YFD CENTER IMPROVEMENTS		
ADDRESS:	3610 DODDS AVENUE, CHATTANOOGA, TN 37402		
PROPOSED USE:	COMMUNITY CENTER		
OWNER/CONTACT PERSON:	CLAY OLIVER	PHONE:	(423) 643-6161
CODE ENFORCEMENT JURISDICTION:	CHATTANOOGA		

### APPLICABLE CODES

ARCHITECTURAL:	IBC 2012
ELECTRICAL:	NEC 2017
PLUMBING:	IPC 2012
MECHANICAL:	IMC 2012
LIFE SAFETY:	IBC 2012
GAS:	IFGC 2012
ENERGY:	IECC 2009
ACCESSIBILITY:	ANSI/ICC A117.1 2009

### DESIGNER OF RECORD

DESIGNER	NAME	LICENSE #	TELEPHONE #
ARCHITECTURAL:	RICHARD THOMPSON	17840	(423) 265-4313
ELECTRICAL:	CHARLES WINKLER	104601	(404) 525-2120
PLUMBING:	JEFF WESTBROOK	110599	(423) 698-6675
MECHANICAL:	JEFF WESTBROOK	110599	(423) 698-6675
STRUCTURAL:	VALENTINO BATES	00101888	(404) 525-2120
CIVIL:	JOE B. HUTCHERSON	13152	(423) 698-6675

### BUILDING DATA

OCCUPANCY TYPE:	ASSEMBLY GROUP A-3		
MIXED OCCUPANCY:	NO	SEPARATION:	NONE
CONSTRUCTION TYPE:	V-B	MIXED CONSTRUCTION:	NO
SPRINKLED:	YES	NFPA-13	
FIRE DISTRICT:	YES		
BUILDING HEIGHT:	28 FEET	NUMBER OF STORIES:	ONE
MEZZANINE:	NO		
HIGH RISE:	NO		
GROSS BUILDING AREA:	16,212 S.F.		
TOTAL GROSS AREA:	16,212 S.F.		
AREA INCREASE:	YES	AREA INCREASE FOR SPRINKLER:	506.3 UNLIMITED AREA WITH 60FT. CLEAR ALL SIDES: 507.0

### FIRE RESISTANCE RATINGS

PARTY/FIRE WALLS:	REQUIRED HOURLY	DETAIL # & SHEET #	% WALL OPENING	DESIGN # FOR RATED ASSEMBLIES
	NA	NA	NA	NA
EXTERIOR BEARING WALLS:				
NORTH	NA	NA	NA	NA
EAST	NA	NA	NA	NA
WEST	NA	NA	NA	NA
SOUTH	NA	NA	NA	NA
EXTERIOR NON-BEARING WALLS:				
NORTH	NA	NA	NA	NA
EAST	NA	NA	NA	NA
WEST	NA	NA	NA	NA
SOUTH	NA	NA	NA	NA

### INTERIOR WALLS:

BEARING	REQUIRED HOURLY	DETAIL # & SHEET #	% WALL OPENING	DESIGN # FOR RATED ASSEMBLIES
	NA	NA	NA	NA
NON-BEARING				
	NA	NA	NA	NA
CEILING-FLOORS ASSEMBLY:				
BEAMS:	NA	NA	NA	NA
COLUMNS:	NA	NA	NA	NA
CEILING-ROOF ASSEMBLY:				
VERTICAL SHAFTS:	NA	NA	NA	NA
CHASES - P.E.M.:	NA	NA	NA	NA
MIXED OCCUPANCY SEPARATION:				
TENANT SEPARATION:	NA	NA	NA	NA

### LIFE SAFETY SYSTEMS

EMERGENCY LIGHTING AND EXIT SIGNS:	YES
FIRE ALARM AND SMOKE DETECTOR SYSTEMS:	YES
PANIC HARDWARE:	YES

### EXIT REQUIREMENTS

DEAD END LIMIT-MAXIMUM CONDITION:	20 FEET
TRAVEL DISTANCE TO EXIT - MAXIMUM CONDITION:	250 FEET

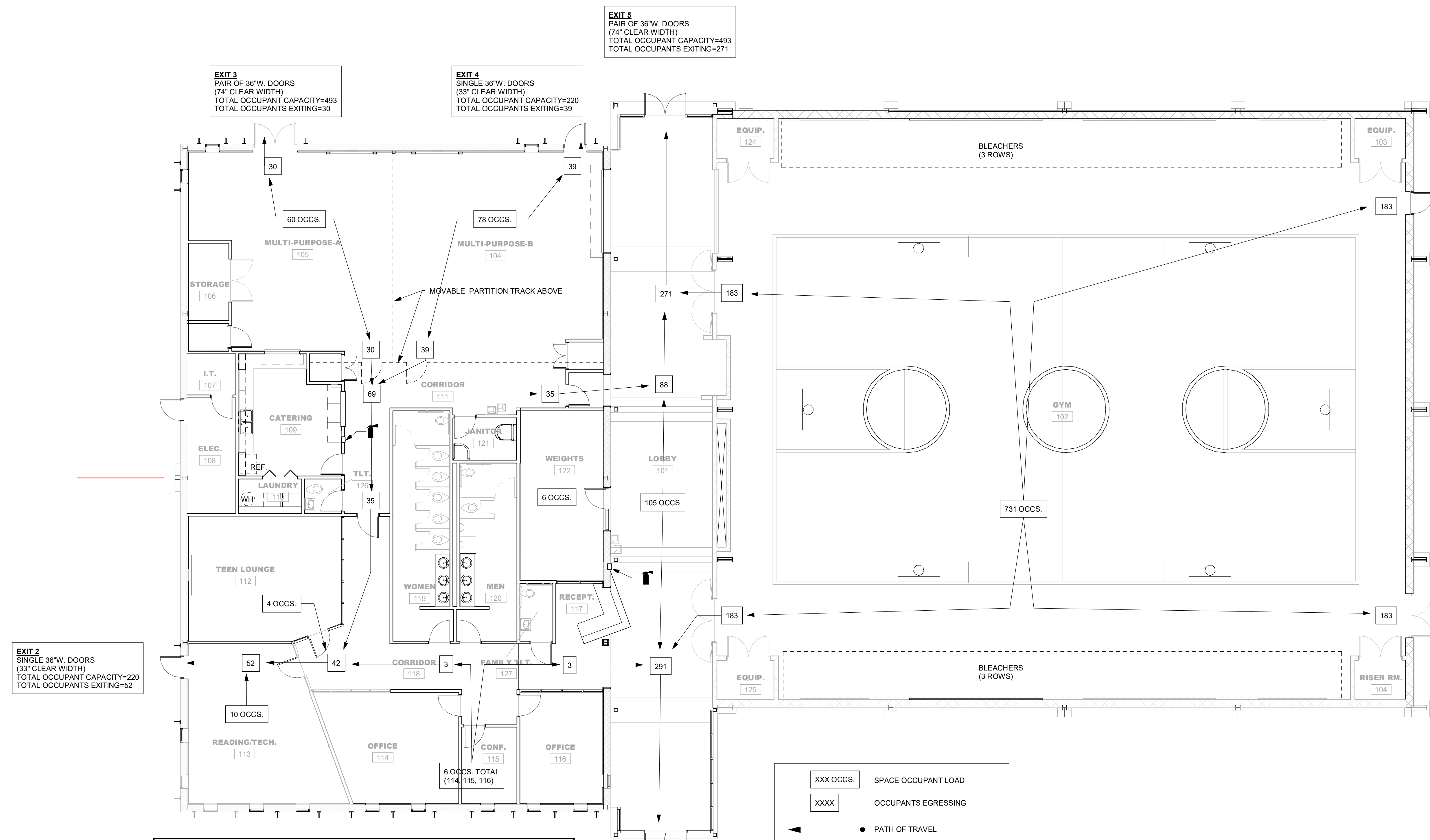
NOTE: SEE LIFE SAFETY PLAN ON SHEET T1.3

### TOTAL FIXTURE SUMMARY

TOTAL OCCUPANT LOAD: 972		
FIXTURES - MALE & FEMALE	REQUIRED	PROVIDED
LAVATORIES	6	8
WATER CLOSETS	12	10 WC + 2 URINALS



**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402



**EXIT 2**  
 SINGLE 36"W. DOORS  
 (33" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=220  
 TOTAL OCCUPANTS EXITING=52

**EXIT 3**  
 PAIR OF 36"W. DOORS  
 (74" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=493  
 TOTAL OCCUPANTS EXITING=30

**EXIT 4**  
 SINGLE 36"W. DOORS  
 (33" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=220  
 TOTAL OCCUPANTS EXITING=39

**EXIT 5**  
 PAIR OF 36"W. DOORS  
 (74" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=493  
 TOTAL OCCUPANTS EXITING=271

**EXIT 6**  
 SINGLE 36"W. DOORS  
 (33" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=220  
 TOTAL OCCUPANTS EXITING=183

**EXIT 7**  
 PAIR OF 36"W. DOORS  
 (74" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=493  
 TOTAL OCCUPANTS EXITING=183

**Occupancy Load Calculations**  
 IBC Table 1004.1.2

Space	Space Function	Occupant Load	Area	Occupant Load
New Gym.	Assembly Unconcentrated	15	net 6800	453.33
New Gym.	actual bleacher seats			278.00
Multi-Purpose	Assembly Unconcentrated	15	net 1640	109.33
Lobby	Assembly Unconcentrated	15	net 1570	104.67
Weights	Exercise	50	gross 297	5.94
Kitchen	Business	100	gross 267	2.67
storage	Accessory	300	gross 272	0.91
Offices	Business	100	gross 573	5.73
Teen Lounge	Business	100	gross 392	3.92
elec/IT	Accessory	300	gross 117	0.39
Janitor	Accessory	300	gross 72	0.24
Tech/Reading	Reading/Library	50	net 336	6.72
<b>total occupants</b>				<b>971.85</b>

**EXIT 1**  
 PAIR OF 36"W. DOORS  
 (74" CLEAR WIDTH)  
 TOTAL OCCUPANT CAPACITY=493  
 TOTAL OCCUPANTS EXITING=291

XXX OCCS. SPACE OCCUPANT LOAD  
 XXXX OCCUPANTS EGRESSING  
 PATH OF TRAVEL  
 FIRE EXTINGUISHER CABINET

**OCCUPANCY LOAD**  
 TOTAL OCCUPANCY: 972  
 TOTAL REQUIRED EGRESS @ .15" PER OCCUPANT = 146"  
 TOTAL PROVIDED EGRESS: 340"

**FIRE EXTINGUISHERS**  
 FIRE EXTINGUISHERS TO BE 2A:10B:C MIN.

**NOTE:** LOCATE AS NOTED - TRAVEL DISTANCE NOT TO EXCEED 75 FT - ALL FIRE EXTINGUISHER CABINETS (F.E.C.) TO BE SEMI-RECESSED TYPE

**LIFE SAFETY LEGEND**  
 SCALE: 3/16" = 1'-0"

**1 1ST FLOOR LIFE SAFETY PLAN**  
 SCALE: 1/8" = 1'-0"



ISSUE DATES  
 INITIAL ISSUE 12-20-19

JOB NO. 18-072 | DWN Author | CKD Checker

**T1.3**  
 LIFE SAFETY PLAN



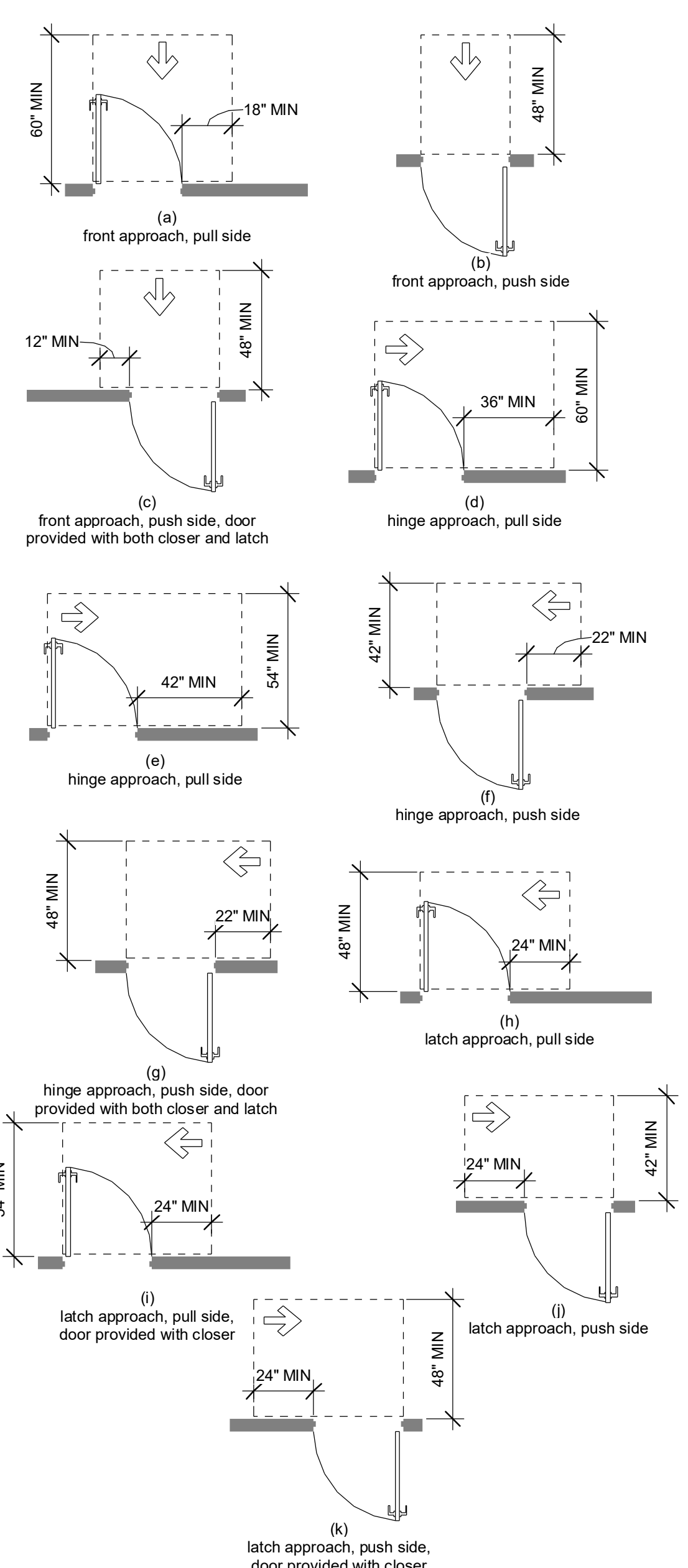


Figure 404.2.4.1 Maneuvering Clearances at Manual Swinging Doors and Gates

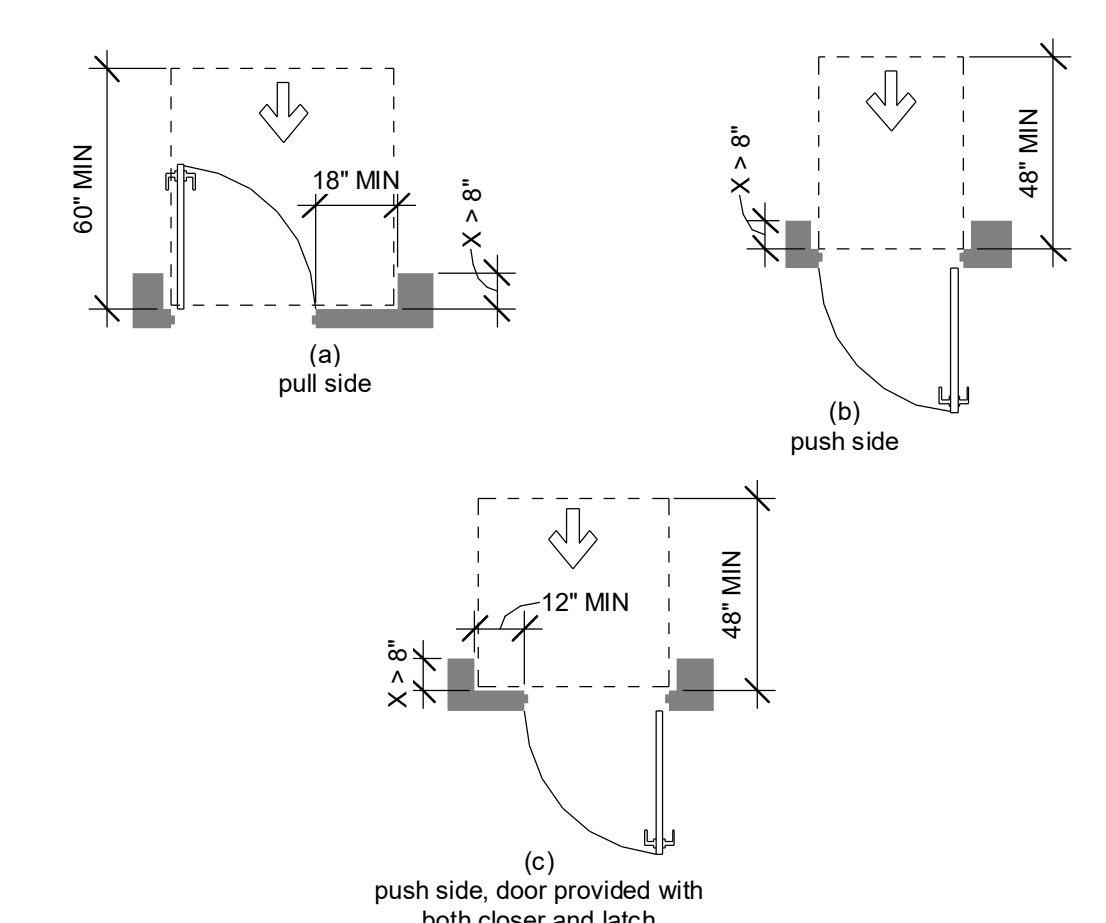


Figure 404.2.4.3 Maneuvering Clearances at Recessed Doors and Gates

Type of Use		Minimum Maneuvering Clearance	
Approach Direction	Door or Gate Side	Perpendicular to Doorway	Parallel to Doorway (Beyond latch side unless noted)
From front	Pull	60 inches	18 inches
From front	Push	48 inches	0 inches <sup>1</sup>
From hinge side	Pull	60 inches	36 inches
From hinge side	Push	54 inches	42 inches
From hinge side	Push	42 inches <sup>2</sup>	22 inches <sup>3</sup>
From latch side	Pull	48 inches <sup>4</sup>	24 inches
From latch side	Push	42 inches <sup>4</sup>	24 inches

1. Add 12 inches if closer and latch are provided.  
 2. Add 6 inches if closer and latch are provided.  
 3. Beyond hinge side.  
 4. Add 6 inches if closer is provided.

**404.2.4 Maneuvering Clearances.** Minimum maneuvering clearances at doors and gates shall comply with 404.2.4. Maneuvering clearances shall extend the full width of the doorway and the required latch side or hinge side clearance.

**EXCEPTION:** Entry doors to hospital patient rooms shall not be required to provide the clearance beyond the latch side of the door.

**404.2.4.1 Swinging Doors and Gates.** Swinging doors and gates shall have maneuvering clearance complying with Table 404.2.4.1.

**404.2.4.3 Recessed Doors and Gates.** Maneuvering clearances for forward approach shall be provided when any obstruction within 18 inches (455 mm) of the latch side of a doorway projects more than 8 inches (205 mm) beyond the face of the door, measured perpendicular to the face of the door or gate.

**Advisory 404.2.4.3 Recessed Doors and Gates.** A door can be recessed due to wall thickness or because of the placement of casework and other fixed elements adjacent to the doorway. This provision must be applied wherever doors are recessed.

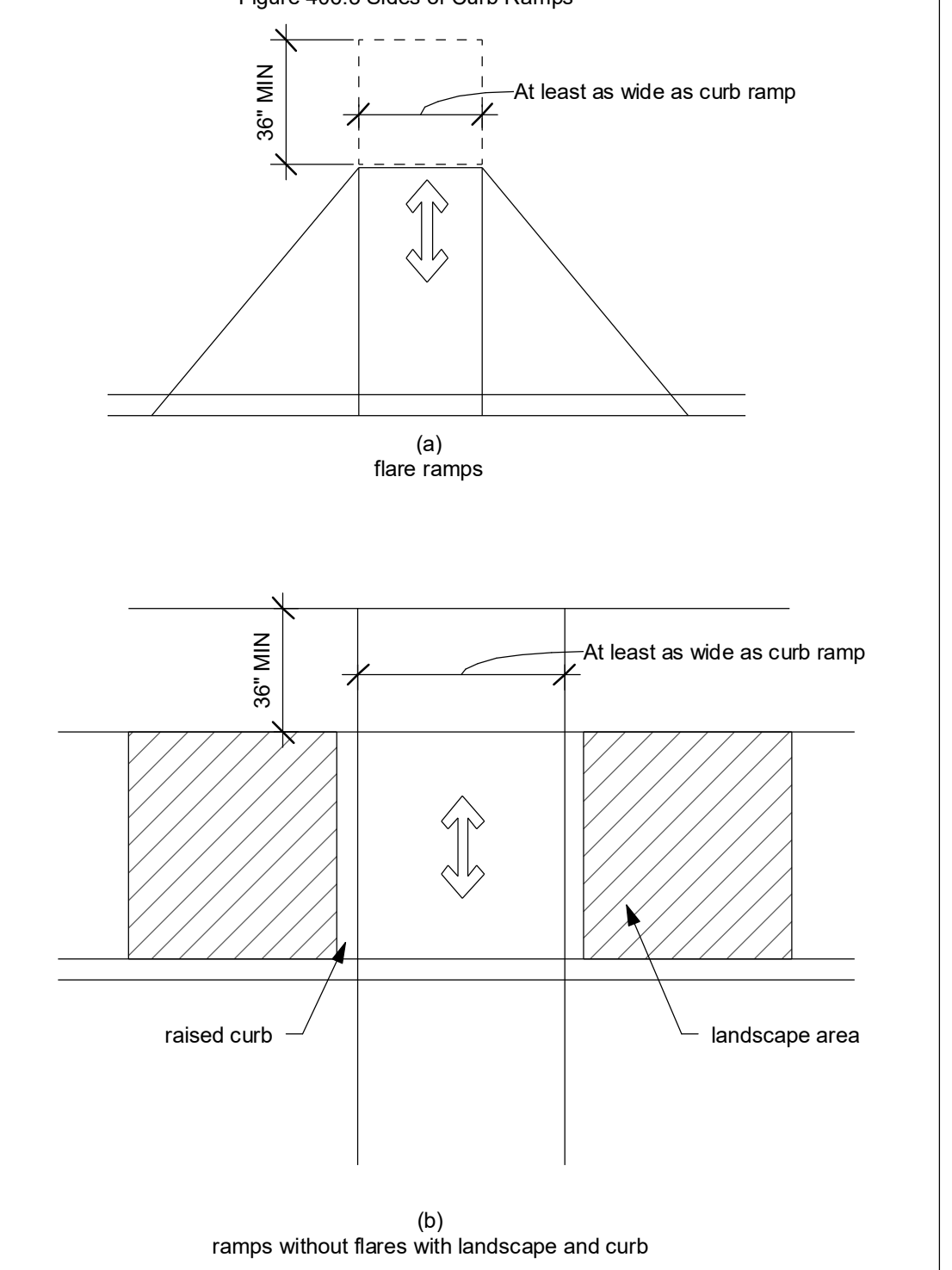
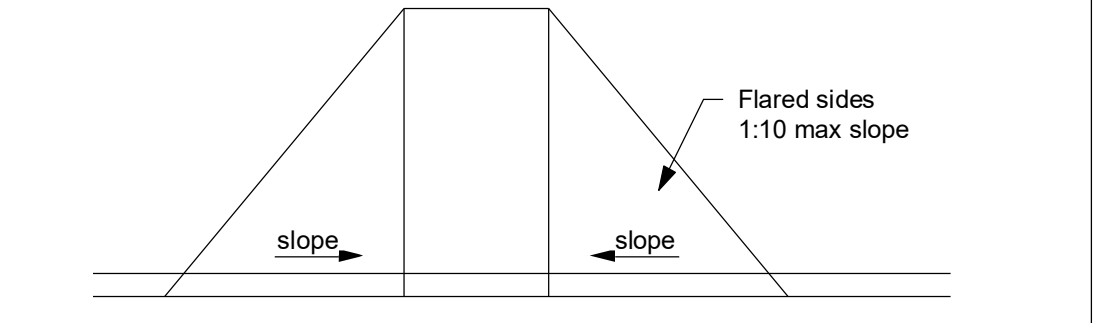
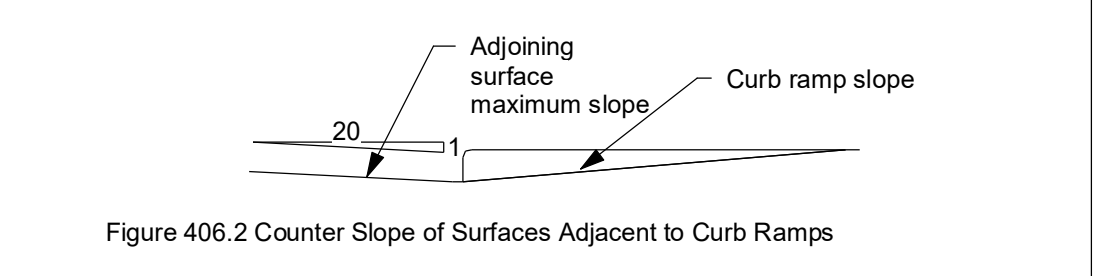


Figure 406.4 Landings at the Top of Curb Ramps

**406 Curb Ramps**

**406.1 General.** Curb ramps on accessible routes shall comply with 406.405.2 through 405.5, and 405.10.

**406.2 Counter Slope.** Counter slopes of adjoining gutters and road surfaces immediately adjacent to the curb ramp shall not be steeper than 1:20. The adjacent surfaces at transitions at curb ramps to walks, gutters, and streets shall be at the same level.

**406.3 Sides of Curb Ramps.** Where provided, curb ramp flares shall not be steeper than 1:10.

**406.4 Landings.** Landings shall be provided at the tops of curb ramps. The landing clear length shall be 36 inches (915 mm) minimum. The landing clear width shall be at least as wide as the curb ramp, excluding flared sides, leading to the landing.

**406.5 Location.** Curb ramps and the flared sides of curb ramps shall be located so that they do not project into vehicular traffic lanes, parking spaces, or parking access aisles. Curb ramps at marked crossings shall be wholly contained within the markings, excluding any flared sides.

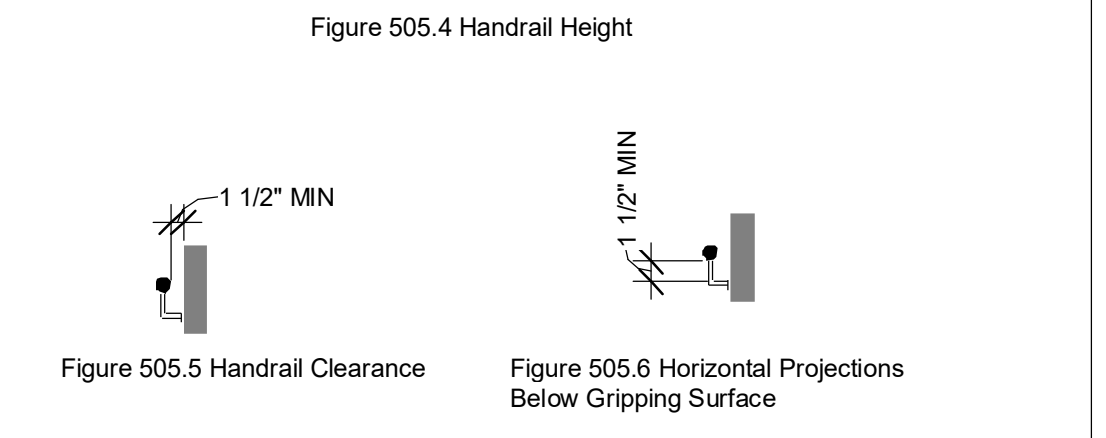
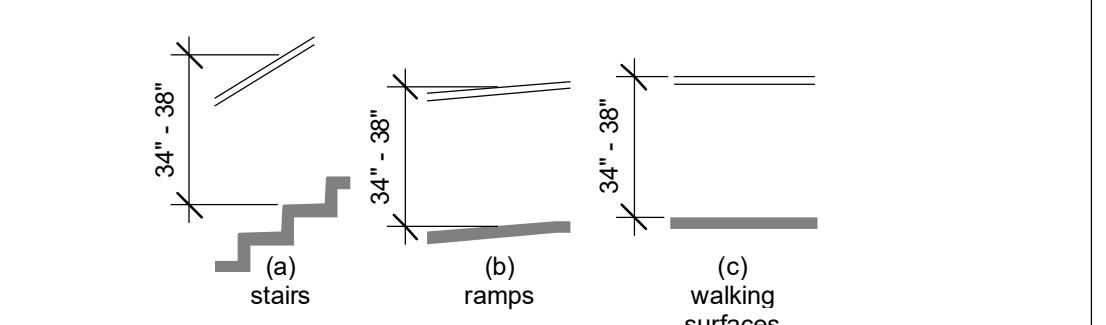
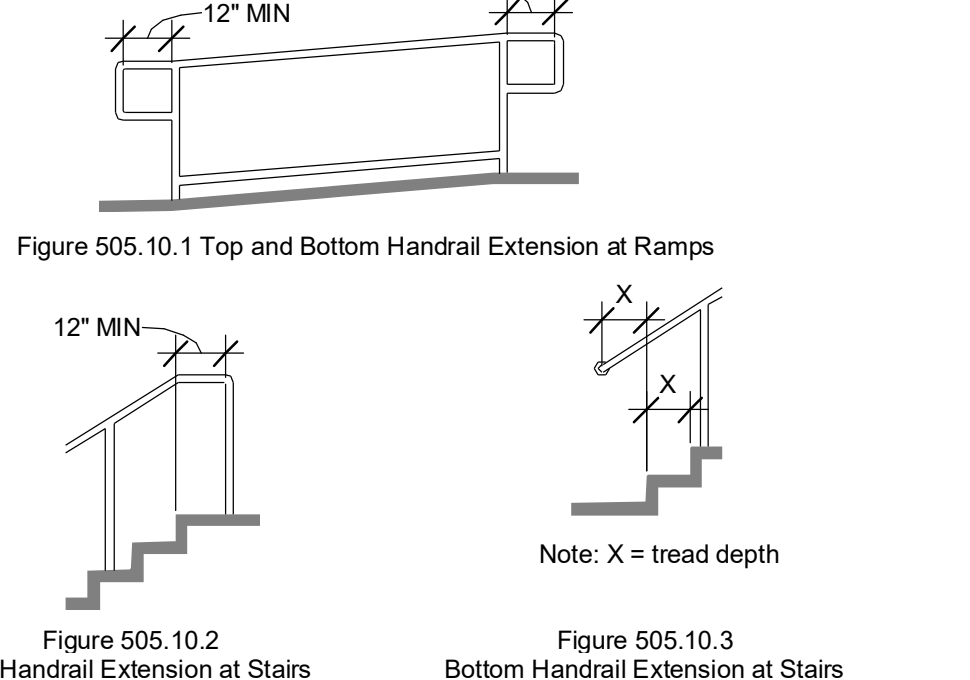


Figure 505.5 Handrail Clearance Figure 505.6 Horizontal Projections Below Gripping Surface



**505 Handrails**

**505.1 General.** Handrails provided along walking surfaces complying with 403, required at ramps complying with 405, and required at stairs complying with 504 shall comply with 505.

**Advisory 505.1 General.** Handrails are required on ramp runs with a rise greater than 6 inches (150 mm) (see 405.5) and on certain stairways (see 504). Handrails are not required on walking surfaces with running slopes less than 1:20. However, handrails are required to comply with 505 when they are provided on walking surfaces with running slopes less than 1:20 (see 403.6). Sections 505.2, 505.3, and 505.10 do not apply to handrails provided on walking surfaces with running slopes less than 1:20 as these sections only reference requirements for ramps and stairs.

**505.2 Where Required.** Handrails shall be provided on both sides of stairs and ramps.

**EXCEPTION:** In assembly areas, handrails shall not be required on both sides of aisle ramps where a handrail is provided at either side or within the aisle width.

**505.3 Continuity.** Handrails shall be continuous within the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs and ramps shall be continuous between flights or runs.

**EXCEPTION:** In assembly areas, handrails on ramps shall not be required to be continuous in aisles serving seating.

**505.4 Height.** Top of gripping surfaces of handrails shall be 34 inches (865 mm) minimum and 38 inches (965 mm) maximum vertically above walking surfaces, stair nosings, and ramp surfaces. Handrails shall be at a consistent height above walking surfaces, stair nosings, and ramp surfaces.

**Advisory 505.4 Height.** The requirements for stair and ramp handrails in this document are for adults. When children are the principal users in a building or facility (e.g., elementary schools), a second set of handrails at an appropriate height can assist them and aid in preventing accidents. A maximum height of 28 inches (710 mm) measured to top of the gripping surface from the ramp surface or stair nosing is recommended for handrails designed for children. Sufficient vertical clearance between upper and lower handrails, 9 inches (230 mm) minimum, should be provided to help prevent entrapment.

**505.5 Clearance.** Clearance between handrail gripping surfaces and adjacent surfaces shall be 1 1/2 inches (38 mm) minimum.

**505.6 Gripping Surface.** Handrail gripping surfaces shall be continuous along their length and shall not be obstructed along their tops or sides. The bottoms of handrail gripping surfaces shall not be obstructed for more than 20 percent of their length. Where provided, horizontal projections shall occur 1 1/2 inches (38 mm) minimum below the bottom of the handrail gripping surface.

**EXCEPTIONS:**

- Where handrails are provided along walking surfaces with slopes not steeper than 1:20, bottoms of handrail gripping surfaces shall be permitted to be obstructed along their entire length where they are integral to crash rails or bumper guards.
- The distance between horizontal projections and the bottom of the gripping surface shall be permitted to be reduced by 1/8 inch (3.2 mm) for each 1/2 inch (13 mm) of additional handrail perimeter dimension that exceeds 4 inches (100 mm).

**Advisory 505.6 Gripping Surface.** People with disabilities, older people, and others benefit from continuous gripping surfaces that permit users to reach the fingers outward or downward to grasp the handrail, particularly as the user senses a loss of equilibrium or begins to fall.

**505.7 Cross Section.** Handrail gripping surface shall have a cross section complying with 505.7.1 or 505.7.2.

**505.7.1 Circular Cross Section.** Handrail gripping surfaces with a circular cross section shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

**505.10.1 Top and Bottom Extension at Ramps.** Ramp handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beyond the top and bottom of ramp runs. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent ramp run.

**505.10.2 Top Extension at Stairs.** At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches (305 mm) minimum beginning directly above the first riser nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

**505.10.3 Bottom Extension at Stairs.** At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance at least equal to one tread depth beyond the last riser nosing. Extension shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

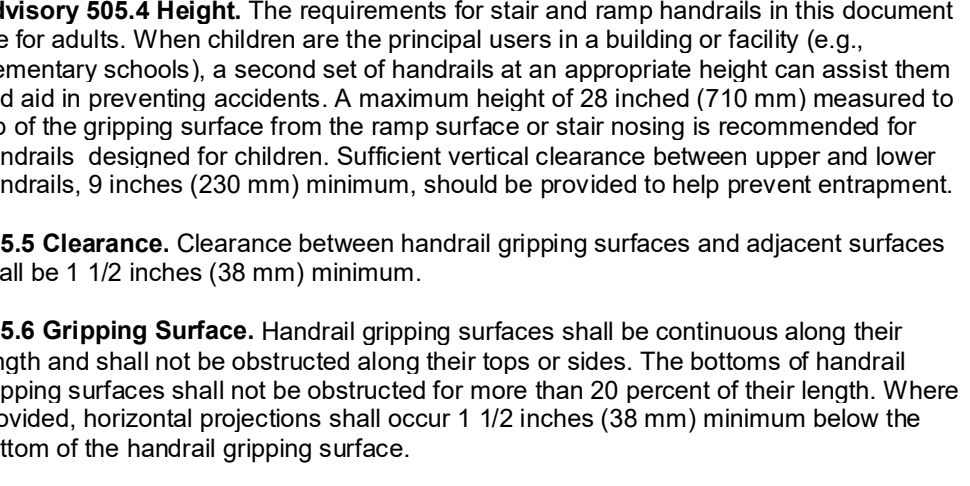


Figure 602.5 Drinking Fountain Spout Location

**602 Drinking Fountains**

**602.4 Spout Height.** Spout outlets shall be 36 inches (915 mm) maximum above the finish floor or ground. Spout outlets of drinking fountains for standing persons shall be 38 inches (965 mm) minimum and 43 inches (1090 mm) maximum above the finish floor or ground.

**602.5 Spout Location.** The spout shall be located 15 inches (380 mm) minimum from the vertical support and 5 inches (125 mm) maximum from the front edge of the unit, including bumpers. Where only a parallel approach is provided, the spout shall be 3-1/2 inches (90 mm) maximum from edge of the drinking fountain, including bumpers.

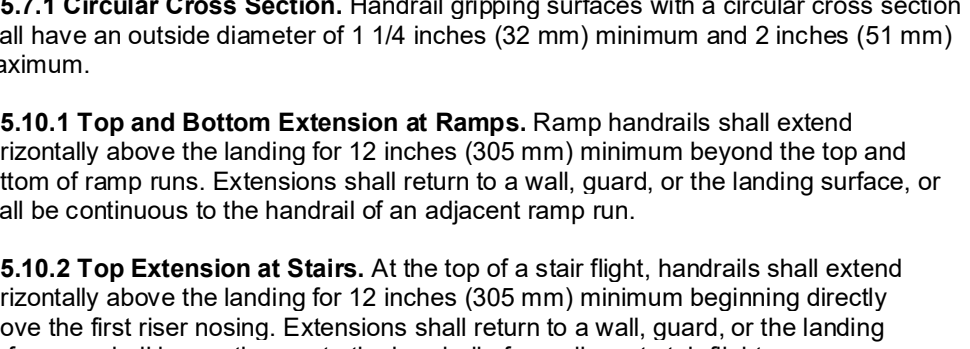
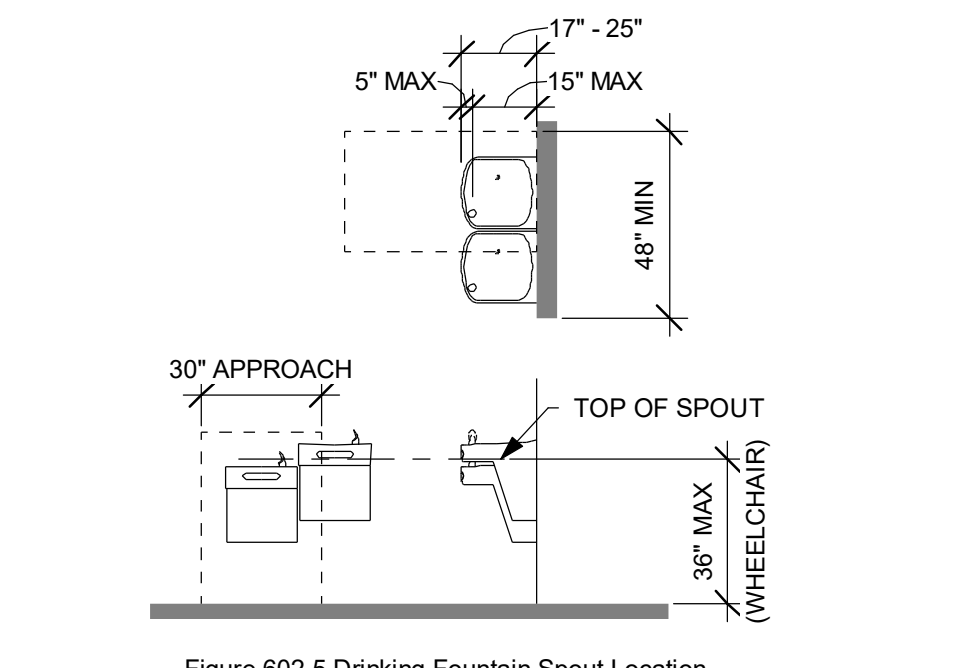


Figure 603.3 Mirrors Figure 603.4 Coat Hooks and Shelves Figure 603.5 Baby Changing Stations



**603 Toilet and Bathing Rooms**

**603.3 Mirrors.** Mirrors located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 40 inches (1015 mm) maximum above the finish floor or ground. Mirrors not located above lavatories or countertops shall be installed with the bottom edge of the reflecting surface 35 inches (890 mm) maximum above the finish floor or ground.

**603.4 Coat Hooks and Shelves.** Coat hooks shall be located within one of the reach ranges specified in 308. Shelves shall be located 40 inches (1015 mm) minimum and 48 inches (1220 mm) maximum above the finish floor.

**603.5 (Ansi 2009) Diaper Changing Tables.** Diaper changing tables shall comply with Sections 309 and 902.

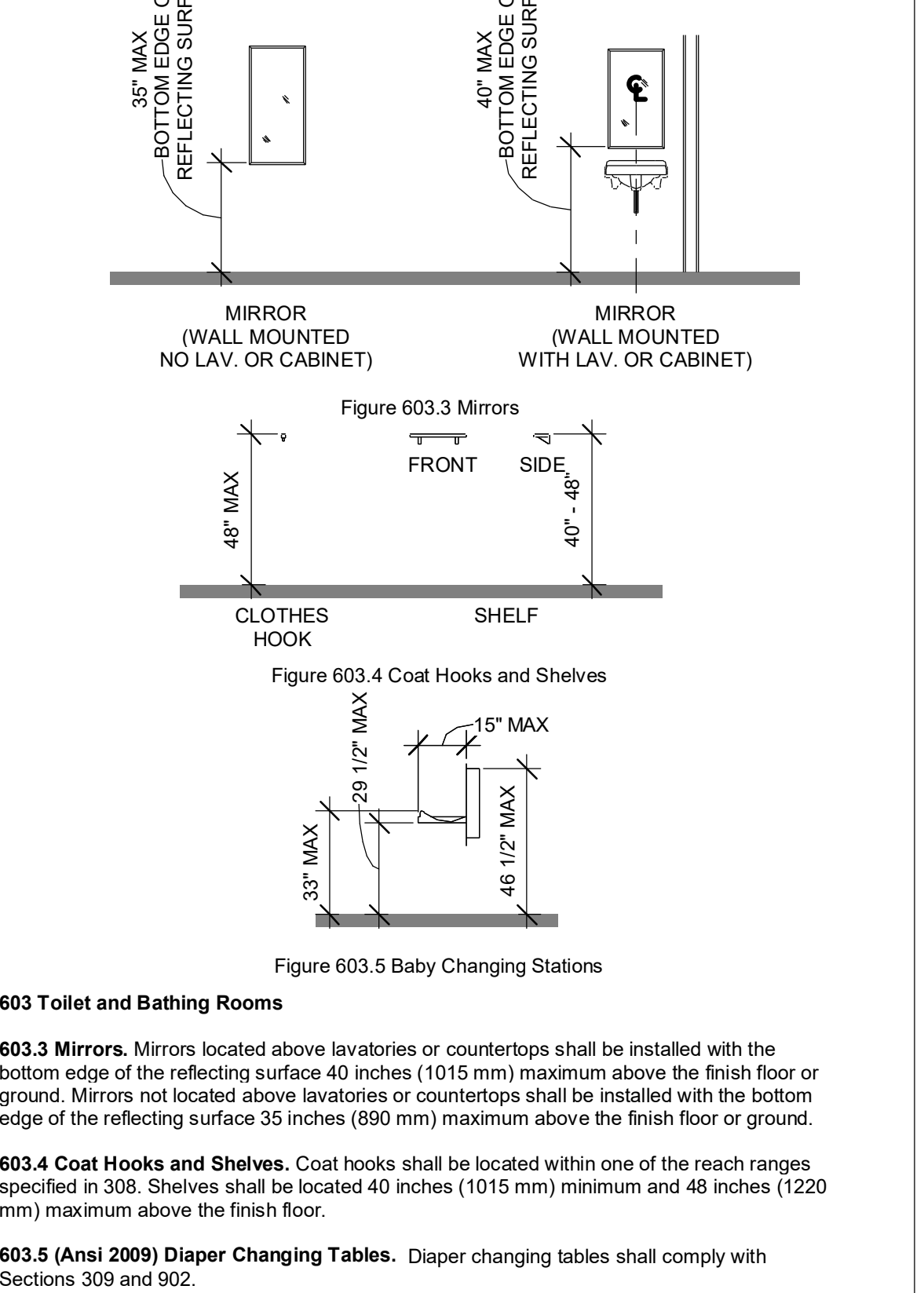


Figure 603.3 Mirrors Figure 603.4 Coat Hooks and Shelves Figure 603.5 Baby Changing Stations

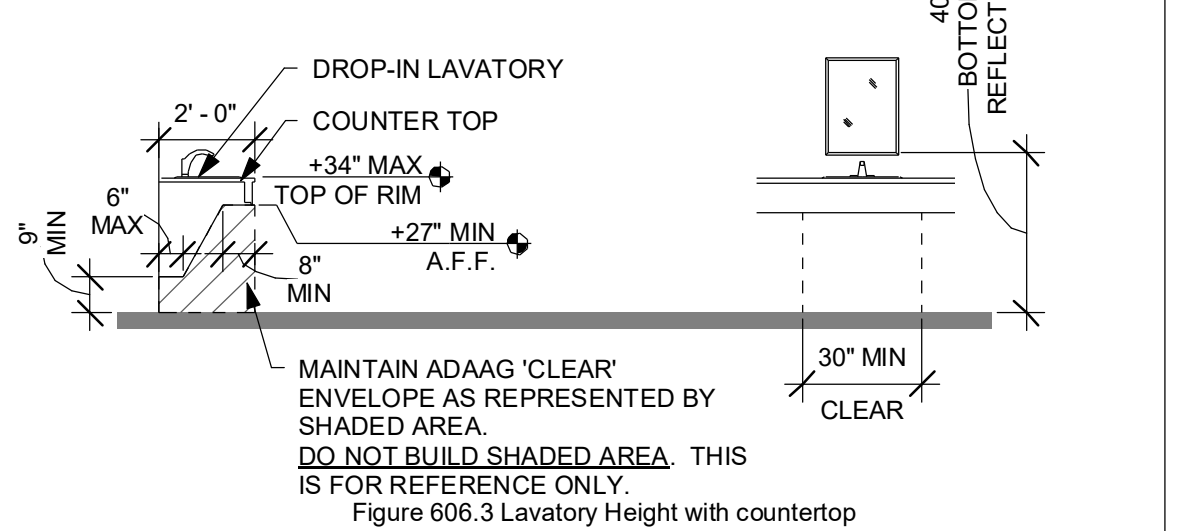


Figure 606.3 Lavatory Height with countertop

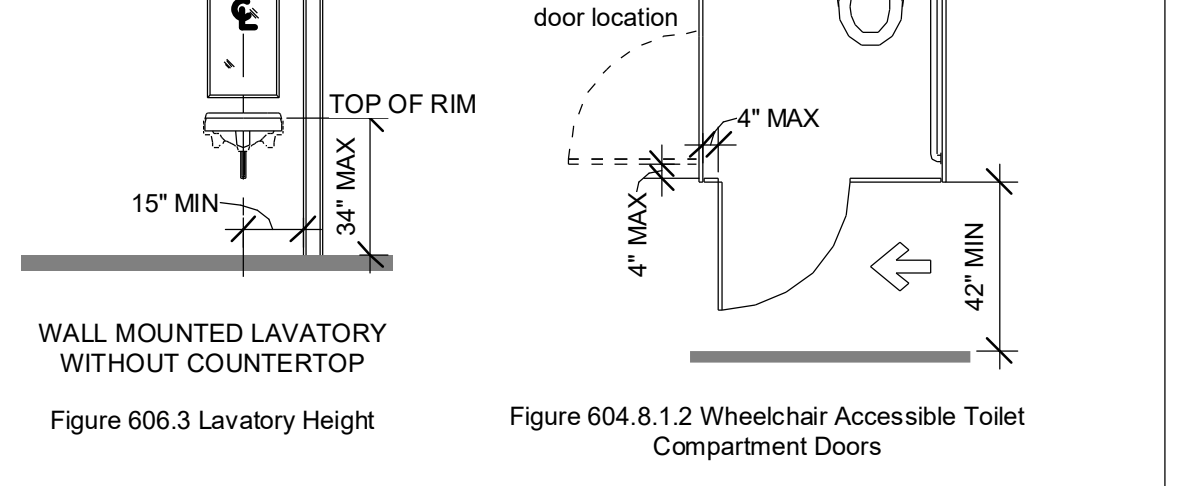


Figure 604.8.1.2 Wheelchair Accessible Toilet Compartment Doors

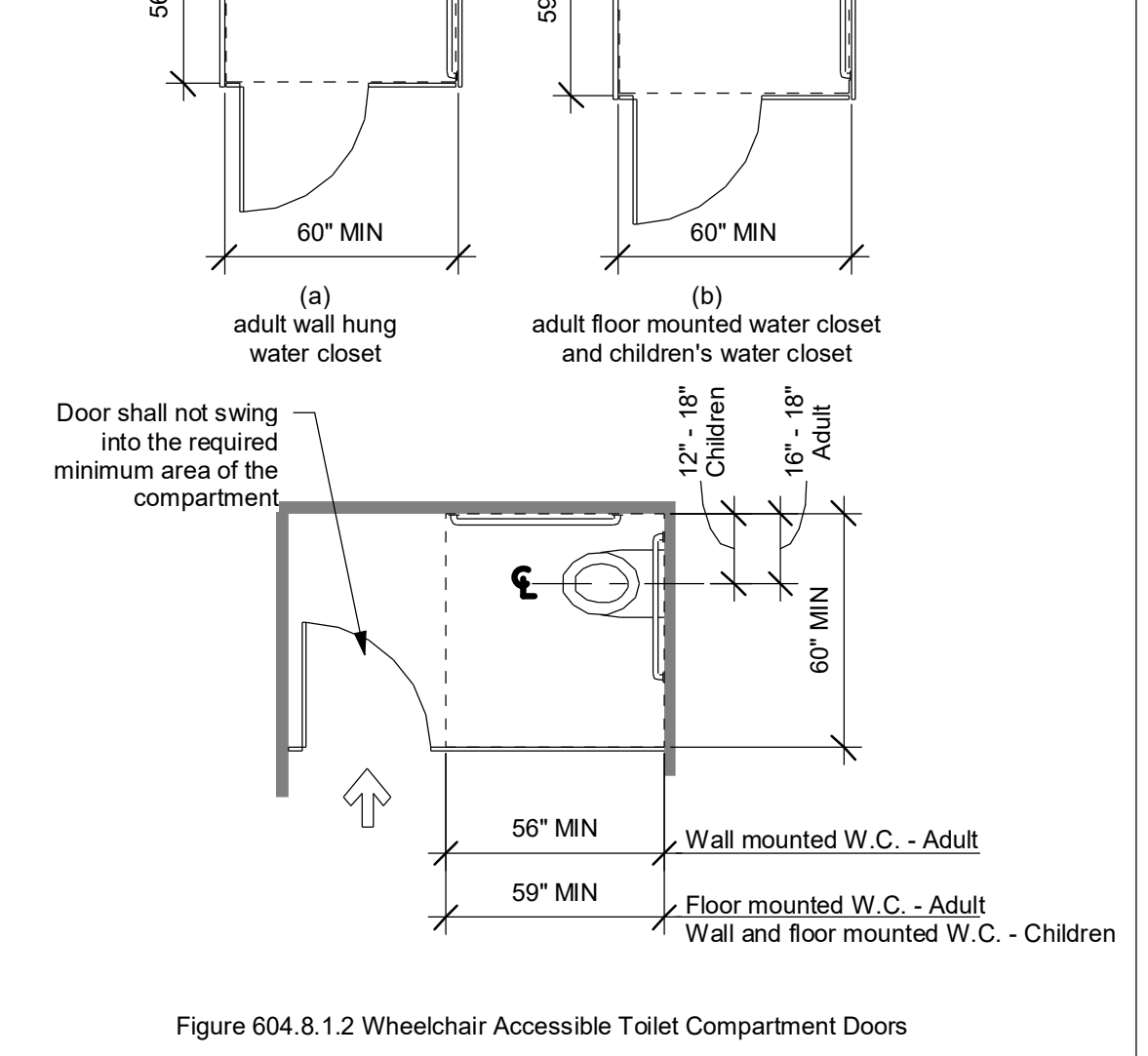


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance

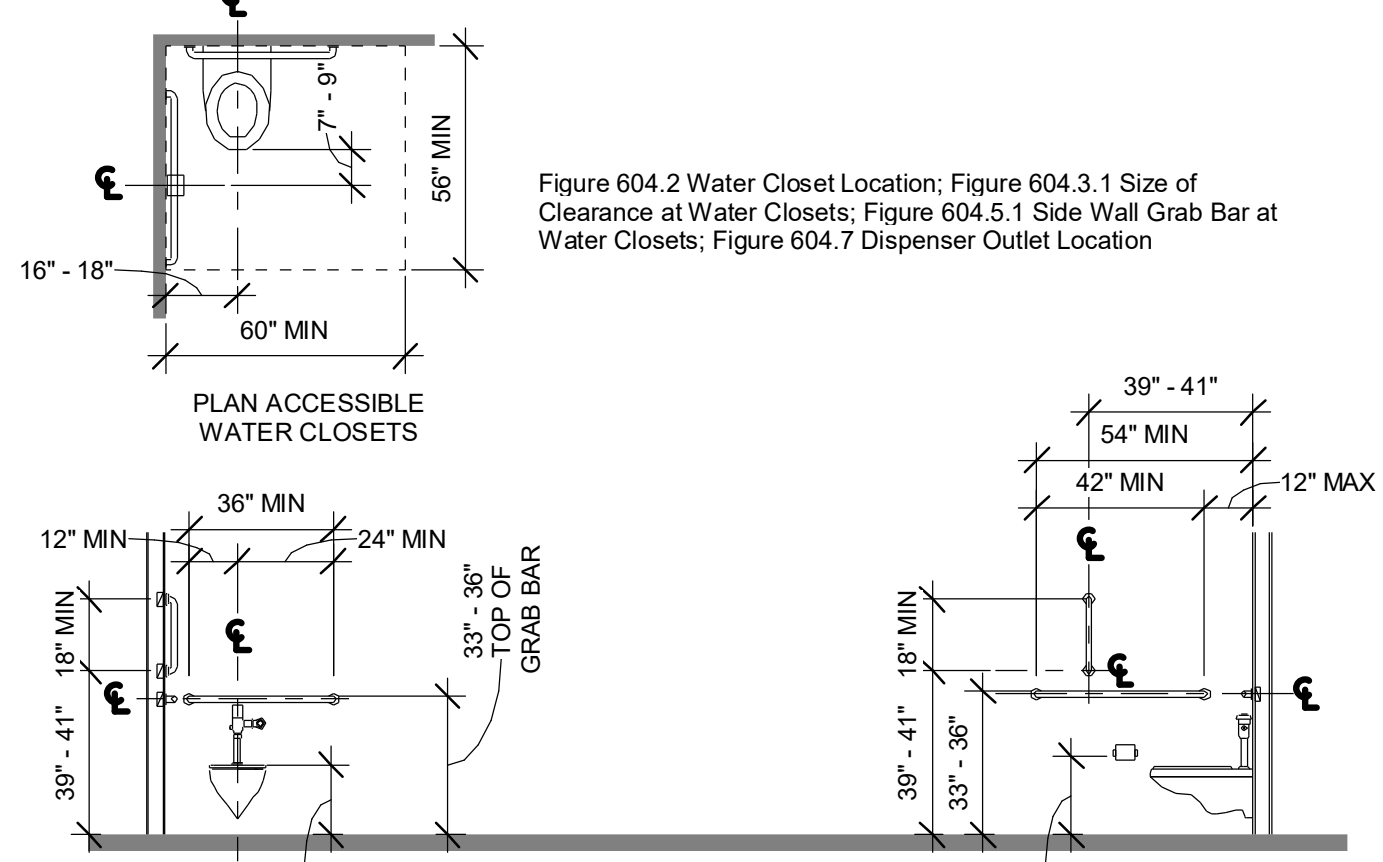


Figure 604.2 Water Closet Location; Figure 604.3.1 Size of Clearance at Water Closets; Figure 604.5.1 Side Wall Grab Bar at Water Closets; Figure 604.7 Dispenser Outlet Location

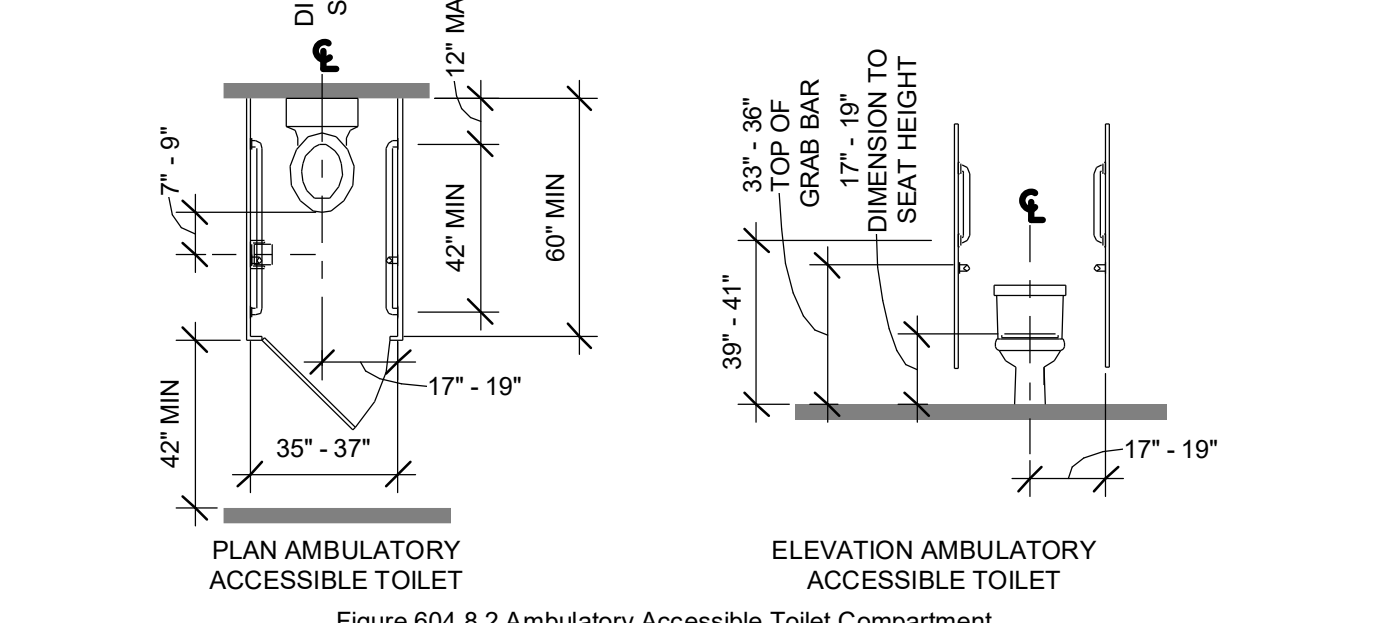


Figure 604.8.2 Ambulatory Accessible Toilet Compartment

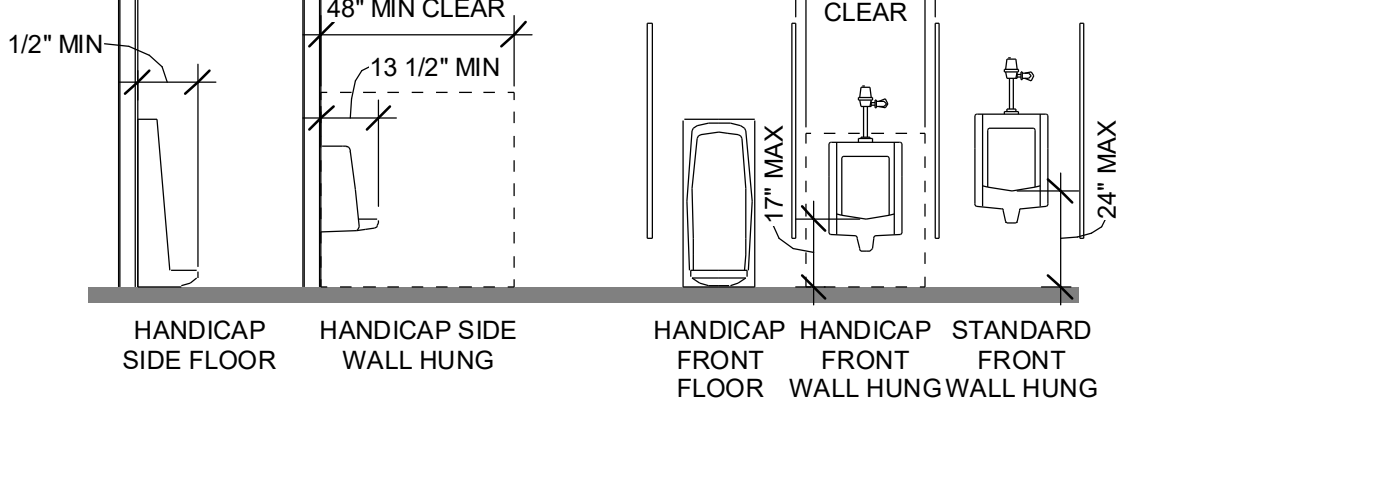


Figure 605.2 Height and Depth of Urinals

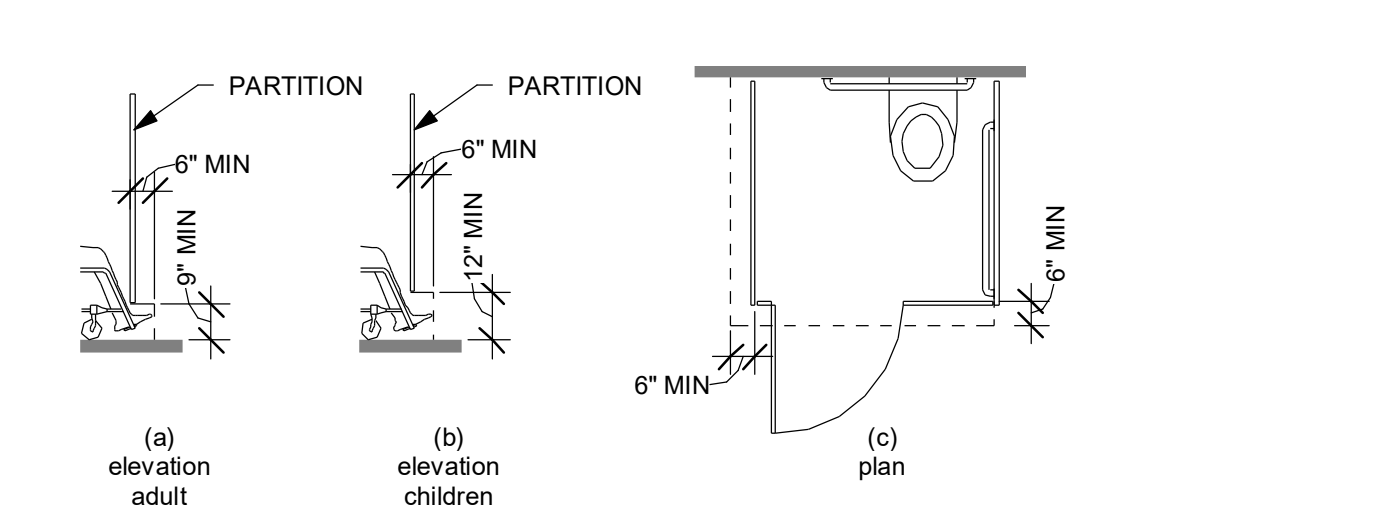


Figure 604.8.1.4 Wheelchair Accessible Toilet Compartment Toe Clearance



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 INITIAL ISSUE 12-20-19

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**604 Water Closets and Toilet Compartments**

**604.2 Location.** The water closet shall be positioned with a wall or partition to the rear and to one side. The centerline of the water closet shall be 16 inches (405 mm) minimum to 18 inches (455 mm) maximum from the side wall or partition, except that the water closet shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum from the side wall or partition in the ambulatory accessible toilet compartment specified in 604.8.2. Water closets shall be arranged for a left-hand or right-hand approach.

**604.3 Clearance.** Clearance around water closets and in toilet compartments shall comply with 604.3.

**604.3.1 Size.** Clearance around a water closet shall be 60 inches (1525 mm) minimum measured perpendicular from the side wall and 56 inches (1420 mm) minimum measured perpendicular from the rear wall.

**604.3.2 Overlap.** The required clearance around the water closet shall be permitted to overlap the water closet, associated grab bars, dispensers, sanitary napkin disposal units, coat hooks, shelves, accessible routes, clear floor space and clearances required at other fixtures, and the turning space. No other fixtures or obstructions shall be located within the required water closet clearance.

**604.4 Seats.** The seat height of a water closet above the finish floor shall be 17 inches (430 mm) minimum and 19 inches (485 mm) maximum measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

**EXCEPTION:**  
 1. A water closet in a toilet room for a single occupant accessed only through a private office and not for common use or public use shall not be required to comply with 604.4.  
 2. In residential dwelling units, the height of water closets shall be permitted to be 15 inches (380 mm) minimum and 19 inches (485 mm) maximum above the floor finish measured to the top of the seat.

**604.5 Grab Bars.** Grab bars for water closets shall comply with 609. Grab bars shall be provided on the side wall closest to the water closet and on the rear wall.

**EXCEPTION:**  
 1. Grab bars shall not be installed in a toilet room for a single occupant accessed only through a private office and not for common use or public use provided that reinforcement has been installed in walls and located so as to permit the installation of grab bars complying with 604.5.  
 2. In residential dwelling units, grab bars shall not be required to be installed in toilet or bathrooms provided that reinforcement has been installed in walls and located as to permit the installation of grab bars complying with 604.5.

**Advisory 604.5 Grab Bars Exception 2.** Reinforcement must be sufficient to permit the installation of rear and side wall grab bars that fully meet all accessibility requirements including, but not limited to, required length, installation height, and structural strength.

**604.5.1 Side Wall (ADA).** The side wall grab bar shall be 42 inches (1065 mm) long minimum, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall.

**604.5.1 Fixed side Wall Grab Bars (ANSI).** Fixed side wall grab bars shall be 42 inches (1065 mm) minimum in length, located 12 inches (305 mm) maximum from the rear wall and extending 54 inches (1370 mm) minimum from the rear wall. In addition, a vertical grab bar 18 inches (455 mm) minimum in length shall be mounted with the bottom of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum above the floor, and with the center line of the bar located 39 inches (990 mm) minimum and 41 inches (1040 mm) maximum from rear wall.

**604.5.2 Rear Wall.** The rear wall grab bar shall be 36 inches (915 mm) long minimum and extend from the centerline of the water closet 12 inches (305 mm) minimum on one side and 24 inches (610 mm) minimum on the other side.

**EXCEPTIONS:**  
 1. The rear grab bar shall be permitted to be 24 inches (610 mm) long minimum, centered on the water closet, where wall space does not permit a length of 36 inches (915 mm) minimum due to the location of a recessed fixture adjacent to water closet.  
 2. Where an administrative authority requires flush controls for flush valves to be located in a position that conflicts with the location of rear grab bar, then the rear grab bar shall be permitted to be split or shifted to the open side of the toilet area.

**604.7 Dispensers.** Toilet paper dispensers shall comply with 309.4 and shall be 7 inches (180 mm) minimum and 9 inches (230 mm) maximum in front of the water closet measured to the centerline of the dispenser. The outlet of the dispenser shall be 15 inches (380 mm) minimum and 48 inches (1220 mm) maximum above the finish floor and shall not be located behind grab bars. Dispensers shall not be of a type that controls delivery or that does not allow continuous paper flow.

**Advisory 604.7 Dispensers.** If toilet paper dispensers are installed above the side wall grab bar, the outlet of toilet paper dispenser must be 48 inches (1220 mm) maximum above finish floor and the top of the gripping surface of the grab bar must be 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above finish floor.

**604.3 Toilet Compartments.** Wheelchair accessible toilet compartments shall meet the requirements of 604.8.1 and 604.8.3. Compartments containing more than one plumbing fixture shall comply with 603. Ambulatory accessible compartments shall comply with 604.8.2 and 604.8.3.

**604.8.1 Wheelchair Accessible Compartments.** Wheelchair accessible compartments shall comply with 604.8.1.

**604.8.1.1 Size.** Wheelchair accessible compartments shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 56 inches (1420 mm) deep minimum for wall hung water closets and 59 inches (1500 mm) deep minimum for floor mounted water closets measured perpendicular to the rear wall. Wheelchair accessible compartments for children's use shall be 60 inches (1525 mm) wide minimum measured perpendicular to the side wall, and 59 inches (1500 mm) deep minimum for wall hung and floor mounted water closets measured perpendicular to the rear wall.

**604.8.1.2 Doors.** Toilet compartment doors, including door hardware, shall comply with 404 except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. Doors shall be located in the front partition or in the side wall or partition farthest from the water closet. Where located in the front partition, the door opening shall be 4 inches (100 mm) maximum from the side wall or partition farthest from the water closet. Where located in the side wall or partition, the door opening shall be 4 inches (100 mm) maximum from the front partition. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

**604.8.1.4 Toe Clearance.** The front partition and at least one side partition shall provide a toe clearance of 9 inches (230 mm) minimum above the finish floor and 6 inches (150 mm) deep minimum beyond the compartment-side face of the partition, exclusive of partition support members. Compartments for children's use shall provide a toe clearance of 12 inches (305 mm) minimum above the finish floor.

**EXCEPTION:** Toe clearance at the front partition is not required in a compartment greater than 62 inches (1575 mm) deep with a wall-hung water closet or 65 inches (1650 mm) deep with a floor-mounted water closet. Toe clearance at the side partition is not required in a compartment greater than 66 inches (1675 mm) wide. Toe clearance at the front partition is not required in a compartment for children's use that is greater than 65 inches (1650 mm) deep.

**604.8.1.5 Grab Bars.** Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided and shall be located on the wall closest to the water closet. In addition, a rear-wall grab bar complying with 604.5.2 shall be provided.

**604.8.2 Ambulatory Accessible Compartments.** Ambulatory accessible compartments shall comply with 604.8.2.

**604.8.2.1 Size.** Ambulatory accessible compartments shall have a depth of 60 inches (1525 mm) minimum and a width of 35 inches (890 mm) minimum and 37 inches (940 mm) maximum.

**604.8.2.2 Doors.** Toilet compartment doors, including door hardware, shall comply with 404, except that if the approach is to the latch side of the compartment door, clearance between the door side of the compartment and any obstruction shall be 42 inches (1065 mm) minimum. The door shall be self-closing. A door pull complying with 404.2.7 shall be placed on both sides of the door near the latch. Toilet compartment doors shall not swing into the minimum required compartment area.

**604.8.2.3 Grab Bars.** Grab bars shall comply with 609. A side-wall grab bar complying with 604.5.1 shall be provided on both sides of the compartment.

**605 Urinals**

**605.2 Height and Depth.** Urinals shall be the stall-type or the wall-hung type with the rim 17 inches (430 mm) maximum above the finish floor or ground. Urinals shall be 13 1/2 inches (345 mm) deep minimum measured from the outer face of the urinal rim to the back of the fixture.

**606 Lavatories and Sinks**

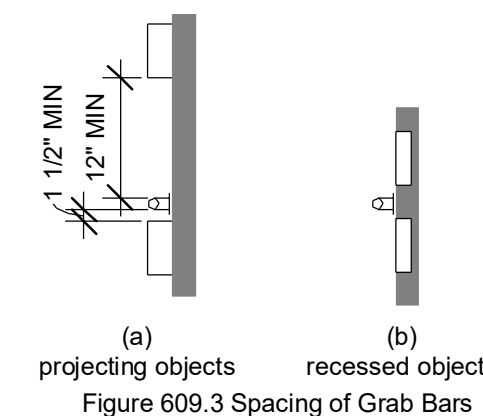
**606.2 Clear Floor Space.** A clear floor space complying with 305, positioned for a forward approach, and knee and toe clearance complying with 306 shall be provided.

**EXCEPTIONS:**  
 1. A parallel approach complying with 305 shall be permitted to a kitchen sink in a space where a cook top or conventional range is not provided and to wet bars.  
 2. A lavatory in a toilet room or bathing facility for single occupant accessed only through a private office and not for common use or public use shall not be required to provide knee and toe clearance complying with 306.  
 3. In residential dwelling units, cabinetry shall be permitted under lavatories and kitchen sinks provided that all of the following conditions are met:  
 a) the cabinetry can be removed without removal or replacement of fixture;  
 b) the finish floor extends under cabinetry; and  
 c) the walls behind and surrounding the cabinetry are finished.  
 4. A knee clearance of 24 inches (610 mm) minimum above finish floor or ground shall be permitted at lavatories and sinks used primarily by children 6 through 12 years where the rim or counter surface is 31 inches (785 mm) maximum above the finish floor or ground.  
 5. A parallel approach complying with 305 shall be permitted to lavatories and sinks used primarily by children 5 years and younger.  
 6. The dip of the overflow shall not be considered in determining knee and toe clearances.  
 7. No more than one bowl of a multi-bowl sink shall be required to provide knee and toe clearance complying with 306.

**606.3 Height.** Lavatories and sinks shall be installed with the front of the higher of the rim or counter surface 34 inches (865 mm) maximum above the finish floor or ground.

**606.4 Faucets.** Controls for faucets shall comply with 309. Hand-operated metering faucets shall remain open for 10 seconds minimum.

**606.5 Exposed Pipes and Surfaces.** Water supply and drain pipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.



**609 Grab Bars**

**609.2 Cross Section.** Grab bars shall have a cross section complying with 609.2.1 or 609.2.2.

**609.2.1 Circular Cross Section.** Grab bars with circular cross sections shall have an outside diameter of 1 1/4 inches (32 mm) minimum and 2 inches (51 mm) maximum.

**609.3 Spacing.** The space between the wall and the grab bar shall be 1 1/2 inches (38 mm). The space between the grab bar and projecting objects below and at the ends shall be 1 1/2 inches (38 mm) minimum. The space between the grab bar and projecting objects above shall be 12 inches (305 mm) minimum.

**EXCEPTION:** The space between the grab bars and shower controls, shower fittings and other grab bars above shall be permitted to be 1-1/2 inches (38 mm) minimum.

**609.4 Position of Grab Bars.** Grab bars shall be installed in a horizontal position, 33 inches (840 mm) minimum and 36 inches (915 mm) maximum above the finish floor measured to the top of the gripping surface, except that at water closets for children's use complying with 604.9, grab bars shall be installed in a horizontal position 18 inches (455 mm) minimum and 27 inches (685 mm) maximum above the finish floor measured to the top of the gripping surface. The height of the lower grab bar on the back wall of a bathtub shall comply with 607.4.1.1 or 607.4.2.1.

**609.5 Surface Hazards.** Grab bars and any wall or other surfaces adjacent to grab bars shall be free of sharp or abrasive elements and shall have rounded edges.

**609.6 Fittings.** Grab bars shall not rotate within their fittings.

**609.7 Installation.** Grab bars shall be installed in any manner that provides a gripping surface at the specified locations and that does not obstruct the required clear floor space.

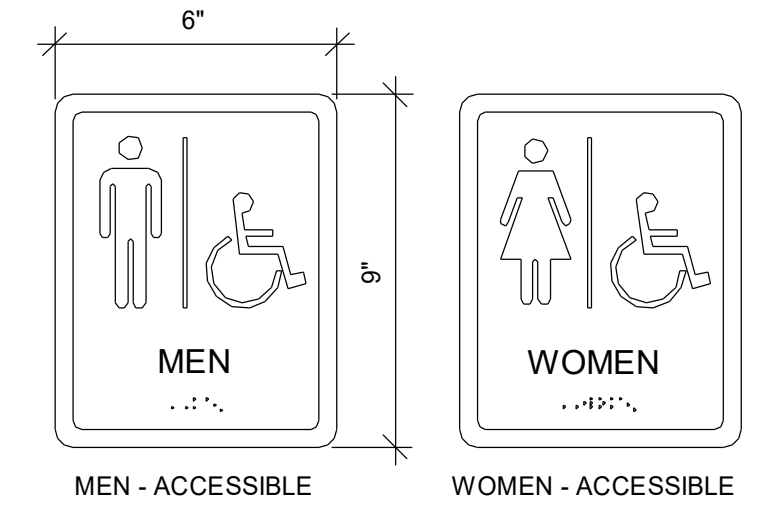


Figure 703.6.1 Pictogram Field dark-on-light.

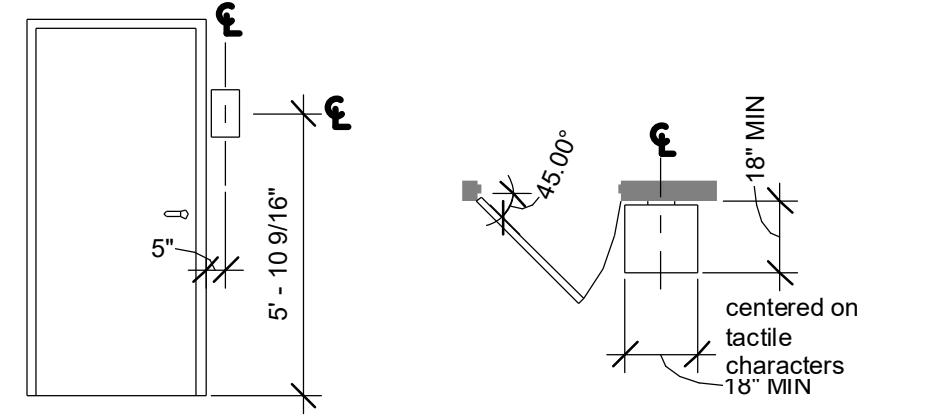


Figure 703.4.2 Location of Tactile Signs at Doors  
 Figure 703.4.1 Height of Tactile Characters Above Finish Floor or Ground

**703 Signs**

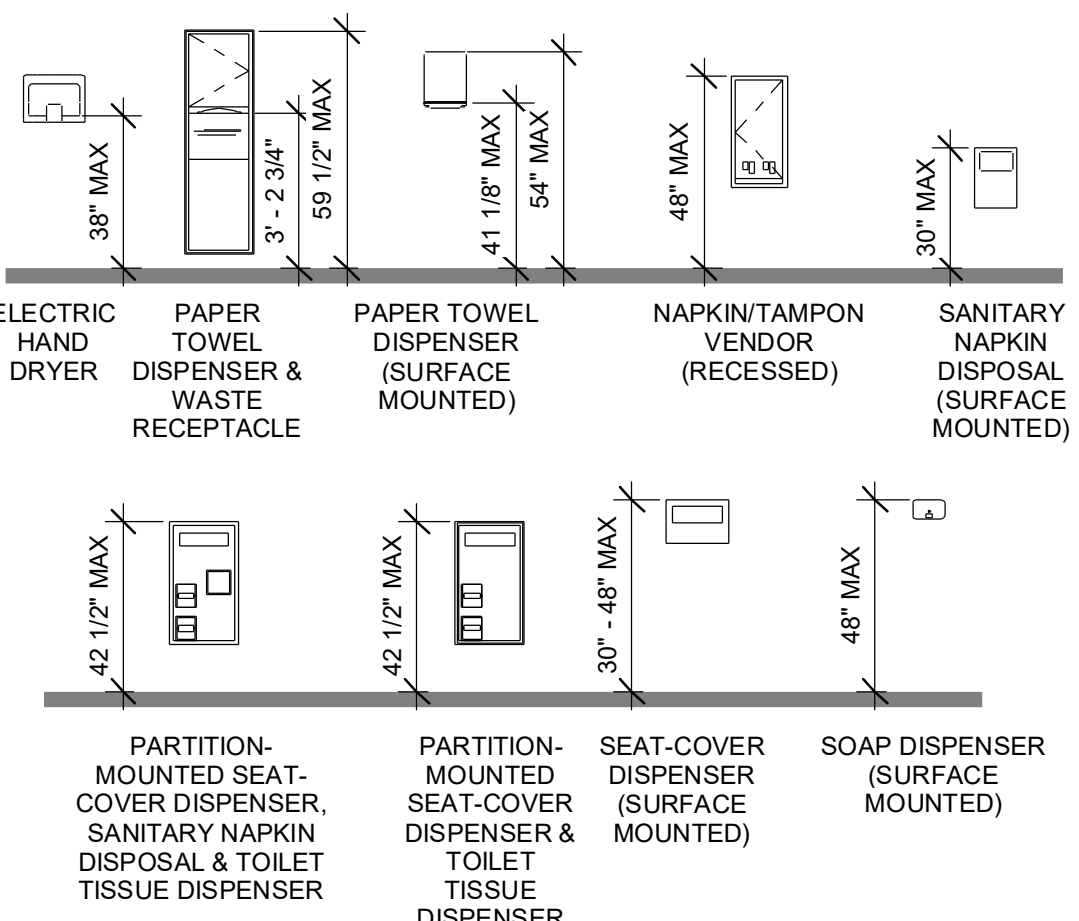
**703.1 General.** Signs shall comply with 703. Where both visual and tactile characters are required, either one sign with both visual and tactile characters, or two separate signs, one with visual, and one with tactile characters, shall be provided.

**703.4 Installation Height and Location.** Signs with tactile characters shall comply with 703.4.

**703.4.1 Height Above Finish Floor or Ground.** Tactile characters on signs shall be located 48 inches (1220 mm) minimum above the finish floor or ground surface, measured from the baseline of the lowest tactile character and 50 inches (1525 mm) maximum above the finish floor or ground surface, measured from the baseline of the highest tactile character.

**703.4.2 Location.** Where a tactile sign is provided at a door, the sign shall be located alongside the door at the latch side. Where a tactile sign is provided at double doors with one active leaf, the sign shall be located on the inactive leaf. Where a tactile sign is provided at double doors with two active leaves, the sign shall be located to the right of the right hand door. Where there is no wall space at the latch side of a single door or at the right side of double doors, signs shall be located on the nearest adjacent wall. Signs containing tactile characters shall be located so that a clear floor space of 18 inches (455 mm) minimum by 18 inches (455 mm) minimum, centered on the tactile characters, is provided beyond the arc of any door swing between the closed position and 45 degree open position.

**EXCEPTION:** Signs with tactile characters shall be permitted on the push side of doors with closer and without hold-open devices.



**Miscellaneous Fixtures**  
 These fixtures are not covered in ADA or ANSI. However, they still need to comply with section 308 on Reach Ranges.



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 INITIAL ISSUE 12-20-19

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T1.5  
 ADA COMPLIANCE STANDARDS



**GENERAL NOTES:**

- 1 THESE DRAWINGS DO NOT PURPORT TO LOCATE ALL UTILITIES.
2 ALL UTILITY LOCATIONS TO BE FIELD VERIFIED BY PROPER AGENCIES BEFORE BEGINNING CONSTRUCTION...
3 THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE...
4 THE CONTRACTOR SHALL COORDINATE LOCATION & INSTALLATION OF ALL UNDERGROUND UTILITIES & APPURTENANCES TO MINIMIZE DISTURBING CURB & GUTTER, PAVING, EXISTING UTILITIES & COMPACTED SUBGRADE.
5 CONTRACTOR SHALL VERIFY EXISTING UTILITY LANE OR EXISTING INFRASTRUCTURE PRIOR TO BEGINNING WORK...
6 CONTRACTOR TO COORDINATE ALL WORK WITH OTHER UTILITY INSTALLATIONS NOT COVERED IN THESE PLANS...
7 THE CONTRACTOR SHALL IMMEDIATELY INFORM THE OWNERS REPRESENTATIVE OR ENGINEER OF ANY DISCREPANCIES OR ERRORS HE DISCOVERS IN THE PLAN.
8 DEVIATION FROM THESE PLANS & NOTES WITHOUT THE PRIOR CONSENT OF THE OWNERS REPRESENTATIVE MAY BE CAUSE FOR THE WORK TO BE UNACCEPTABLE.
9 ALL WORK SHALL COMPLY WITH APPLICABLE STATE, FEDERAL, AND LOCAL CODES, & ALL NECESSARY LICENSES & PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE...
10 FOR THE WORK ON THE STATE OR CITY RIGHT-OF-WAY, THE CONTRACTOR SHALL:
A. NOT STORE MATERIAL, EXCESS DIRT OR EQUIPMENT ON THE SHOULDERS OF PAVEMENT...
B. SHALL PROVIDE ALL NECESSARY & ADEQUATE SAFETY PRECAUTIONS SUCH AS SIGNS, FLAGS, LIGHTS, BARRICADES & FLAG MEN AS REQUIRED...
C. SHALL COMPLETE THE WORK TO THE SATISFACTION OF THE CITY OF CHATTANOOGA OR DOT...
11 ALL WORK & MATERIALS SHALL COMPLY WITH CITY OF CHATTANOOGA REGULATIONS & CODES OF O.S.H.A. STANDARDS.
12 A MINIMUM CLEARANCE OF TWO FEET SHALL BE MAINTAINED BETWEEN THE FACE OF CURB & ANY PART OF A TRAFFIC SIGNAL OR LIGHT POLE.
13 NECESSARY & SUFFICIENT BARRICADES, LIGHTS, SIGNS & OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC SHALL BE PROVIDED & MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD.
14 CONTRACTORS SHOULD NOT BE DOING ANY OPEN BURNING OF CONSTRUCTION MATERIALS OR DEBRIS WITHOUT A PERMIT FROM THE DEPARTMENT OF AIR POLLUTION CONTROL OR LOCAL AUTHORITY...
15 CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS.
16 EROSION CONTROL MEASURES ARE TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION...
17 EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILT & DEBRIS.
18 THE CONTRACTOR SHALL REPAIR OR REPLACE IN-KIND ANY DAMAGE THAT OCCURS TO PROPERTY AS RESULT OF HIS WORK.
19 ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE.
20 ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEEDDED, LANDSCAPED, MULCHED, WATERED, & MAINTAINED UNTIL ADEQUATE STAND OF GRASS IS OBTAINED.
21 UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" OF TOPSOIL.
22 ALL PIPE LENGTHS & DISTANCES BETWEEN STRUCTURES ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG A HORIZONTAL PLANE.
23 THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS & APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE STORM DRAINAGE, SEWER, WATER & UTILITY SYSTEMS...
24 THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE LOCAL UTILITY AUTHORITIES FOR CONNECTION TO THE EXISTING MAINS & PAY ALL APPLICABLE FEES.
25 UTILITY COORDINATION & COSTS SHALL BE INCLUDED IN THE PROJECT SCHEDULE & IT IS THE EXPLICIT RESPONSIBILITY OF THE CONTRACTOR TO SECURE THAT THE PROJECT SCHEDULE INCLUDES THE NECESSARY RELOCATION, THE CONTRACTOR WILL NOT BE PAID ADDITIONALLY FOR THIS COORDINATION...
26 CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
27 DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS...
28 ALL DIMENSIONS SHOWN ARE TO FACE OF CURB OR EDGE OF S/W UNLESS NOTED OTHERWISE.
29 CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO BEGINNING CONSTRUCTION.
30 JOINTS OR SCORE MARKS ARE TO BE SHARP & CLEAN WITHOUT SHOWING EDGES OF JOINT TOOL.
31 THE CONTRACTOR SHALL PROVIDE FOR ANY NECESSARY BONDS AS REQUIRED BY GOVERNING AGENCIES.
32 AN AUTO CAD BASE PLAN MAY BE PROVIDED TO THE CONTRACTOR FOR CONSTRUCTION PURPOSES.
33 TOPOGRAPHIC & BOUNDARY SURVEY BY CITY OF CHATTANOOGA & PROVIDED BY THE OWNER.
34 SEE FINAL PLAT BY SURVEYOR FOR LOCATIONS OF ALL NEW SANITARY SEWER & STORM DRAINAGE EASEMENTS. ALL DETENTION AREAS WILL BE A STORM DRAINAGE EASEMENT.

**SITE NOTES:**

- 1 CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE BEGINNING CONSTRUCTION.
2 FOR EXACT BUILDING DIMENSIONS SEE ARCHITECTURAL PLANS.
3 DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS...
4 ALL DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF SIDEWALK, OR FACE OF BUILDING UNLESS NOTED OTHERWISE.
5 A 1" CURB TAPER SHALL BE FORMED AT ALL PLACES WHERE CURB & GUTTER MEETS AN ADJACENT CONCRETE SIDEWALK OR PARKING AREA WHICH IS 0.5' LOWER THAN THE TOP OF CURB ELEVATION.
6 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

**DEMOLITION NOTES:**

- 1 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING DEMOLITION PERMITS AS WELL AS OTHER ASSOCIATED PERMITS PRIOR TO CONSTRUCTION.
2 DIMENSIONS ON BUILDINGS ARE FOR GRADING PURPOSES ONLY & ARE NOT TO BE USED TO LAYOUT FOOTINGS...
3 ALL DEMOLITION DIMENSIONS SHOWN ARE APPROXIMATE & SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
4 THE CONTRACTOR SHALL SAW-CUT TIE-BARS AT EXISTING PAVEMENT OR CONC. AREAS AS NECESSARY TO ENSURE SMOOTH TRANSITIONS...
5 ALL EXISTING TREES, VEGETATION & ORGANIC TOPSOIL SHALL BE STRIPPED & REMOVED FROM THE CONSTRUCTION AREA...
6 EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS REQUIRED...
7 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

**DRAINAGE & GRADING NOTES:**

- 1 CONTRACTOR SHALL OBTAIN ALL PERMITS BEFORE CONSTRUCTION BEGINS.
2 NEW FINISHED CONTOURS SHOWN ARE TOP OF NEW PAVING IN AREAS TO RECEIVE PAVEMENT & TOP OF TOPSOIL...
3 PROPOSED CONTOUR INTERVALS ARE AS LABELED. ALL PROPOSED CONTOURS ARE FINISHED GRADE.
4 CONTRACTOR SHALL NOTIFY & COOPERATE WITH ALL UTILITY COMPANIES OR FIRMS HAVING FACILITIES ON OR ADJACENT TO THE SITE...
5 A QUALIFIED SOILS LABORATORY SHALL DETERMINE THE SUITABILITY OF THE EXISTING SUB-GRADE & EXISTING ON SITE MATERIAL...
6 UNUSABLE EXCAVATED MATERIALS (SOIL) SHALL BE REESPREAD ON SITE AT LOCATIONS APPROVED BY THE ARCHITECT...
7 BEFORE ANY MACHINE WORK IS DONE, CONTRACTOR SHALL STAKE OUT & MARK THE ITEMS ESTABLISHED BY THE SITE PLAN...
8 COMPACTON OF THE BACK FILL OF ALL TRENCHES SHALL BE COMPACTED TO THE DENSITY OF 95% OF THEORETICAL MAXIMUM DRY DENSITY...
9 TO MINIMUM DRY DENSITIES CORRESPONDING TO 95% OF MAXIMUM DRY DENSITY AS OBTAINED BY STANDARD PROCTOR...
10 THE CONTRACTOR WILL INSURE THAT POSITIVE & ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS...
11 THE CONTRACTOR SHALL PROVIDE ANY EXCAVATION & MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS...
12 PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING GRADES ESPECIALLY WITHIN & ALONG DRAINAGE WAYS...
13 UNLESS OTHERWISE SPECIFIED, ALL SLOPES TO BE COVERED WITH MINIMUM OF 4" TOPSOIL...
14 MAXIMUM EMBANKMENT SLOPES TO BE AS FOLLOWS: CUT AREA - 3:1; FILL AREAS 3:1 (UNLESS NOTED OTHERWISE).
15 STOCKPILED TOPSOIL IS TO BE SPREAD OVER LAWN AREAS AT COMPLETION OF PROJECT...
16 IT IS THE INTENT OF THIS PROJECT FOR THE CONTRACTOR TO VERIFY & MATCH EXISTING CONDITIONS UNLESS OTHERWISE NOTED...
17 STORM DRAIN PIPE TO BE CLASS III REINFORCED CONCRETE CONFORMING TO ASTM C-76, OR CMP, FULLY COATED (16 GAGE MIN.) PER ASTM A44, OR ADS N-12 WITH WATERIGHT GASKET AS SHOWN ON DRAWINGS.
18 PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION...
19 CONTRACTOR SHALL BLEND ALL SLOPES WITH THE SURROUNDING ENVIRONMENT.
20 THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT ENGINEER FOR ANY FIELD GRADE ADJUSTMENTS NEEDED...
21 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

**CITY OF CHATTANOOGA STORM WATER NOTES & CLARIFICATIONS:**

- 1. ALL PERMIT APPLICATIONS AND REPORTS MUST BE SIGNED AS FOLLOWS:
A. CORPORATION: A PRESIDENT, SECRETARY, TREASURER, OR VICE PRESIDENT OF THE CORPORATION...
B. PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR.
C. PUBLIC FACILITY: A PRINCIPAL EXECUTIVE OFFICER OR THE CHIEF EXECUTIVE OFFICER OF THE AGENCY...
2. THE APPLICANT MUST SUBMIT THE NAME AND ADDRESS OF THE CONTRACTOR AND ANY SUBCONTRACTORS WHO SHALL PERFORM THE LAND DISTURBING ACTIVITY...
3. ON SITES WHERE A NPDES PERMIT IS REQUIRED, A NOTICE OF INTENT MUST BE SUBMITTED BEFORE A LAND DISTURBING PERMIT CAN BE ISSUED...
4. ON SITES THAT DISCHARGE INTO SINKHOLES, WRITTEN APPROVAL FROM THE TDEC OFFICE OF WATER SUPPLY MUST BE SUBMITTED BEFORE A LAND DISTURBING PERMIT IS ISSUED.
5. ALL OUTFALLS MUST BE NOTED ON THE SUBMITTED EROSION CONTROL PLAN...
6. ALL DETENTION PONDS MUST HAVE A PAVED EMERGENCY SPILLWAY.
7. A LOCATION MUST BE NOTED ON THE PLANS FOR CONCRETE TRUCK WASH AREAS...
8. PERIMETER EROSION AND SEDIMENT CONTROL MEASURES MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN.
9. ANY DISTURBED AREAS THAT ARE TO REMAIN BARE FOR LONGER THAN 30-DAYS MUST BE TEMPORARILY STABILIZED.
10. A SPECIFIC INDIVIDUAL SHALL BE DESIGNATED TO BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS ON EACH SITE...
11. AT A MINIMUM, ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE CHECKED AND, IF NECESSARY REPAIRED, WEEKLY AND WITHIN 24-HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5-INCHES...
12. UPON COMPLETION OF THE REQUIRED IMPROVEMENTS, AND PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER, THE DEVELOPER/CONTRACTOR WILL FURNISH "AS BUILT" DRAWINGS OF ALL SANITARY SEWER AND STORMWATER STRUCTURES...

**UTILITY NOTES:**

- 1 EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES.
2 ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
3 LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING...
4 PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.
5 ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
6 THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT...
7 LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH...
8 WHERE PROPOSED WATER LINE EXTENDS UNDER ANY PAVED SURFACE, THE TRENCH MUST BE BACK FILLED WITH APPROVED STONE.
9 ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES.
10 WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS" AND LOCAL UTILITY DISTRICT STANDARDS...
11 CONNECTION TO THE EX WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY.
12 RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
13 ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36".
14 WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10- FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER LINE...
15 WATER MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR...
16 ALL MATERIALS SHALL BE U LISTED & FACTORY MUTUAL APPROVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
17 THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. #24 - EXISTING SOIL CONDITIONS.
18 THE CONTRACTOR SHALL NOTIFY THE WATER, SEWER, UTILITY & THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
19 SANITARY SEWER SERVICE LINES SHOWN AS 6" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
20 SANITARY SEWER SERVICE LINES SHOWN AS 4" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
21 A CONCRETE ANCHOR BLOCK AS SHOWN ON THE UTILITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST BELL & SPOUT PIPE JOINT...
22 ALL DUCTILE IRON PIPE TO BE AWMA C-151-81, CLASS 50.
23 ALL UNDERGROUND FITTINGS TO BE MECH JOINT AWMA C110/A21.10, CLASS 250.
24 ALL UNDERGROUND VALVES TO BE MECH JOINT AWMA C509, CLASS 250.
25 ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24.
26 THE CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM & OTHER UTILITIES.
27 FIRE HYDRANTS ARE TO BE INSTALLED SO THAT THE FIRE DEPARTMENT CONNECTION FACES THE STREET...
28 PROCEDURE FOR DISINFECTING POTABLE WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF AWMA C601.
29 ALL PIPING FROM THE "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR...
30 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

**ADDITIONAL SANITARY SEWER SYSTEM NOTES:**

- 1 EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES.
2 ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
3 LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING.
4 ALL MANHOLES REQUIRE "XOR-N-SEAL" OR EQUAL RUBBER SEALS...
5 PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.
6 CONCRETE RELATED TO SANITARY SEWER CONSTRUCTION TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 P.S.I.
7 THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT...
8 CONCENTRIC MANHOLES ONLY ARE TO BE USED ON THIS PROJECT...
9 LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH...
10 ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
11 THE SANITARY SEWER SYSTEM INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", TDEC STANDARDS & REGULATIONS...
12 SANITARY SEWER SERVICE LINES SHOWN AS 6" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
13 SANITARY SEWER SERVICE LINES SHOWN AS 4" P.V.C. (UNLESS NOTED TO BE D.I.P.) & SHALL BE LAID ON A MINIMUM SLOPE OF 1.10%.
14 NO MANHOLE COVERS OR CLEANOUTS ARE TO BE LOCATED IN THE CURB & GUTTER.
15 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

**WATER DISTRIBUTION SYSTEM NOTES:**

- 1 EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW PIPELINES.
2 ALL SERVICE LATERALS SHALL BE MARKED WITH MAGNETIC TAPE.
3 CONTRACTOR TO COORDINATE WITH THE UTILITY FOR CONNECTION TO EXISTING WATER MAIN.
4 WHERE WATER PIPING CROSSES THE SANITARY SEWER LINE, THE WATER SERVICE WITHIN 10- FEET OF THE POINT OF CROSSING SHALL BE AT LEAST 18-INCHES ABOVE THE TOP OF THE SEWER LINE...
5 LINES UNDERGROUND SHALL BE INSTALLED, TESTED & APPROVED BEFORE BACKFILLING.
6 WATERLINES MUST BE CONSTRUCTED BY A LICENSED MUNICIPAL UTILITY CONTRACTOR...
7 UPON COMPLETION OF THIS PROJECT, "AS-BUILT" DRAWINGS MUST BE SUBMITTED TO THE ENGINEER, OWNER, & UTILITY.
8 PRE CAST STRUCTURES MAY BE USED AT THE CONTRACTORS OPTION.
9 ALL CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 P.S.I.
10 THE SITE UTILITY CONTRACTOR SHALL COOPERATE & WORK WITH OTHER CONTRACTORS PERFORMING WORK ON THIS PROJECT...
11 ALL MATERIALS SHALL BE U LISTED & FACTORY MUTUAL APPROVED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
12 THRUST BLOCKS SHALL BE PROVIDED AT ALL TEES, ELBOW & BENDS OF SUFFICIENT SIZE TO COMPLY WITH MINIMUM STANDARDS OF N.F.P.A. - EXISTING SOIL CONDITIONS.
13 A CONCRETE ANCHOR BLOCK AS SHOWN ON THE UTILITY DETAIL SHEET SHALL BE POURED AROUND THE FIRST BELL & SPOUT PIPE JOINT...
14 ALL DUCTILE IRON PIPE TO BE AWMA C-151-81, CLASS 50.
15 ALL UNDERGROUND FITTINGS TO BE MECH JOINT AWMA C110/A21.10, CLASS 250.
16 ALL UNDERGROUND VALVES TO BE MECH JOINT AWMA C509, CLASS 250.
17 ALL UNDERGROUND JOINTS TO BE TESTED & FLUSHED AS PER NFPA #24.
18 ADEQUATE THRUST BLOCKS TO BE PROVIDED AS PER NFPA #24.
19 THE CONTRACTOR SHALL ADJUST LOCATION OF PROPOSED WATER LINES AS REQUIRED TO AVOID CONFLICTS WITH STORM & OTHER UTILITIES.
20 FIRE HYDRANTS ARE TO BE INSTALLED SO THAT THE FIRE DEPARTMENT CONNECTION FACES THE STREET...
21 LUBRICANTS SHALL BE NON-TOXIC & SHALL NOT PROMOTE BIOLOGICAL GROWTH...
22 PROCEDURE FOR DISINFECTING POTABLE WATER LINES SHALL CONFORM TO THE REQUIREMENTS OF AWMA C601.
23 PRESSURE & LEAKAGE TESTS SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT AWMA STANDARD C600 AND/OR MANUFACTURER'S PROCEDURE.
24 WHERE PROPOSED WATER LINE EXTENDS UNDER ANY PAVED SURFACE, THE TRENCH MUST BE BACKFILLED WITH APPROVED STONE.
25 ALL VALVES (G.V.) SHALL BE GATE VALVES WITH CAST IRON BOXES.
26 WATER INSTALLATION SHALL BE IN ACCORDANCE WITH "TEN STATES STANDARDS", TDEC STANDARDS & REGULATIONS, & THE CITY OF CHATTANOOGA STANDARDS.
27 CONNECTION TO THE WATER MAIN SHALL BE MADE UNDER THE SUPERVISION OF THE LOCAL WATER UTILITY.
28 RADIUS (DEFLECT) WATER LINES IN LIEU OF FITTINGS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
29 ALL WATER LINES SHALL HAVE A MINIMUM COVER OF 36".
30 THE CONTRACTOR SHALL NOTIFY THE WATER UTILITY & THE ENGINEER PRIOR TO BEGINNING CONSTRUCTION.
31 NO FIRE HYDRANTS OR WATER VALVE BOXES ARE TO BE LOCATED IN THE CURB & GUTTER.
32 ALL PIPING FROM THE "POINT OF SERVICE" INCLUDING UNDERGROUND USED FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A TENNESSEE REGISTERED SPRINKLER CONTRACTOR...
33 REFER ALSO TO GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.

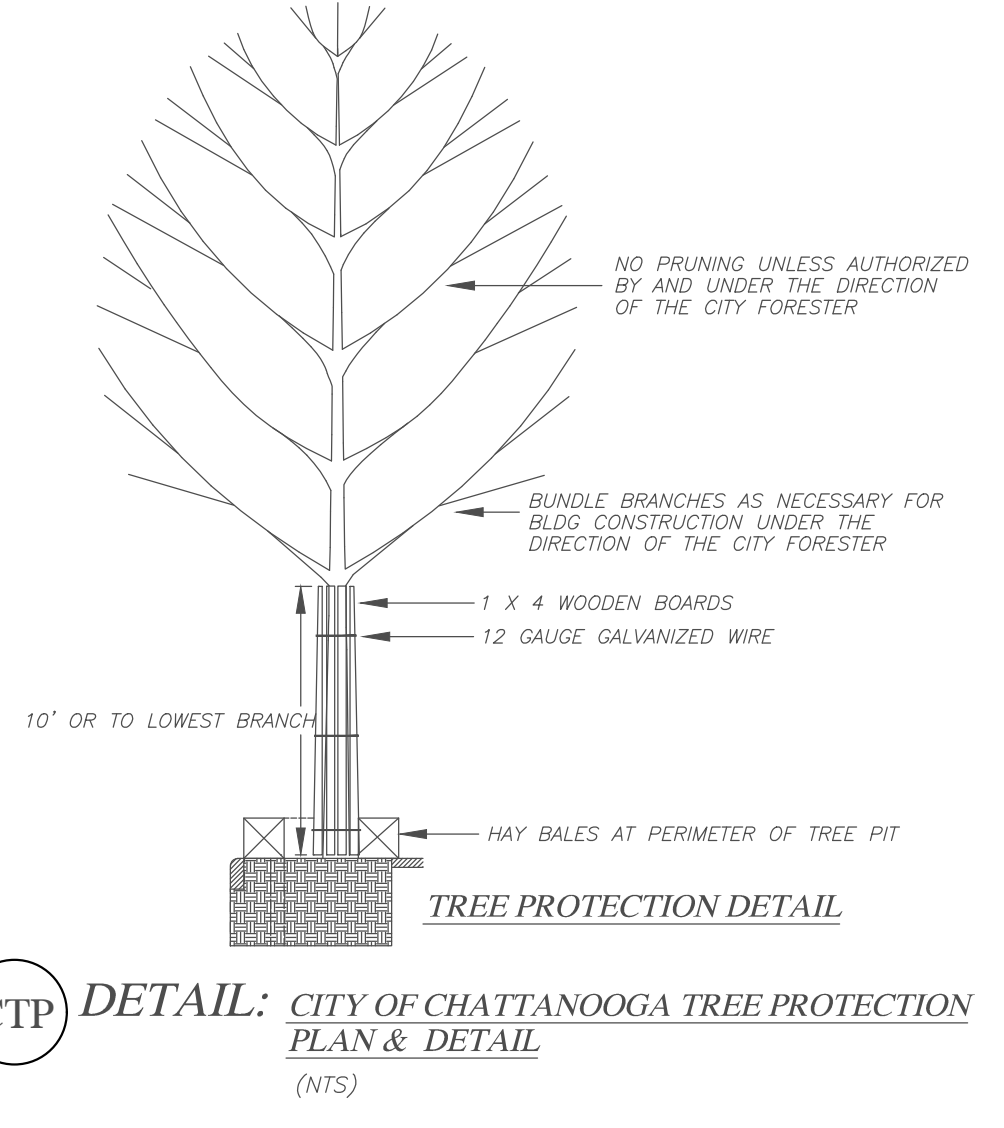
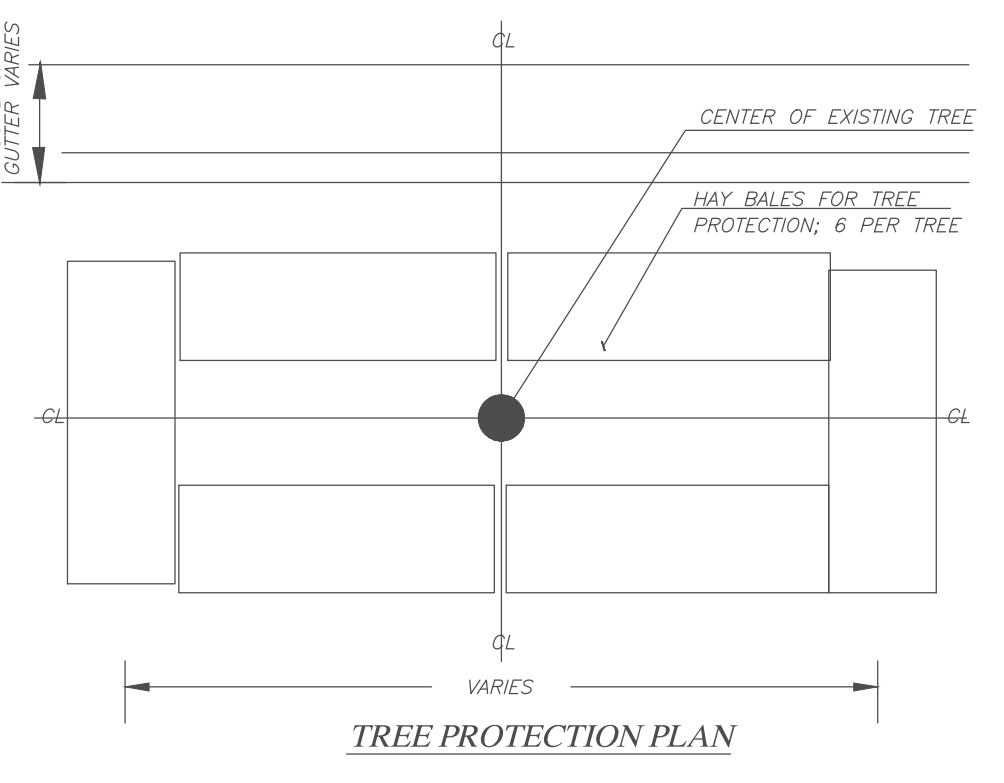
**LANDSCAPE NOTES:**

- 1. ALL PLANTS MUST BE HEALTHY, VIGOROUS & FREE OF PESTS & DISEASE.
2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED & BUR LAPPED AS INDICATED IN THE PLANT LIST.
3. ALL TREES MUST BE FULL HEADED & MEET ALL REQUIREMENTS SPECIFIED.
4. ALL TREES MUST BE GUYED OR STAKED AS SHOWN IN THE DETAILS.
5. ALL PLANTS & PLANTING AREAS MUST BE COMPLETELY MULCHED AS SHOWN IN DETAILS.
6. PRIOR TO CONSTRUCTION, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES & SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK...
7. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS, BEFORE PRICING THE WORK.
8. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO, WATERING, SPRINKLING, MULCHING, FERTILIZING, ETC.) OF PLANTING AREAS & LAWNS UNTIL THE WORK IS ACCEPTED...
9. THE LANDSCAPE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE...
10. THE OWNER AGREES TO PERFORM ALL LANDSCAPE MAINTENANCE (INCLUDING WATERING) THROUGHOUT THE ONE YEAR GUARANTEE PERIOD...
11. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE & REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE, & MEETING ALL PLANT LIST SPECIFICATIONS.
12. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK" ARE ONLY GUIDELINE SPECIFICATIONS & SHALL BE CONSIDERED MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

**CITY OF CHATTANOOGA GENERAL NOTES PERTAINING TO EXISTING TREES JOB CONDITIONS (SEE DETAIL "CTP" THIS SHEET):**

- 1. PROTECTIONS: PROVIDE PROTECTION AS REQUIRED TO DESIGNATED LANDSCAPE IMPROVEMENTS TO AVOID DAMAGE CAUSED BY FALLING BUILDING MATERIALS OR THE REMOVAL OF MATERIALS RESULTING FROM EITHER CONSTRUCTION OR DEMOLITION OPERATIONS...
2. TREE PROTECTION: INSTALL A SHELD OF 1" X 4" WOODEN PLANKS COMPLETELY AROUND EACH TREE TRUNK FROM GROUND LEVEL TO WHERE THE TRUNK BEGINS TO "BRANCH OUT"...
3. TREE PIT PROTECTION: PROTECT TREE PITS AND PIT VEGETATION FROM FALLING, SLIDING, OR WASHING BUILDING MATERIALS BY PLACING BALES OF STRAW AROUND THE PERIMETER OF EACH PIT...
4. TREE REPAIRS: TREES AND/OR VEGETATION THAT HAVE BEEN DESIGNATED TO REMAIN AND THAT HAVE BEEN DAMAGED BY DEMOLITION OPERATIONS, ARE TO BE REPLACED OR REPAIRED IN A MANNER ACCEPTABLE TO THE URBAN FORESTER.
5. TREE REPLACEMENT: "TREE REPLACEMENT" IS DEFINED AS THE COMPLETE EXCAVATION OF AN EXISTING TREE AND ITS ROOT SYSTEM AND THE SUBSEQUENT PLANTING, BACK- FILLING, AND ADEQUATE FERTILIZATION AND WATERING OF ITS REPLACEMENT TREE FOR A PERIOD OF ONE YEAR AFTER PLANTING.

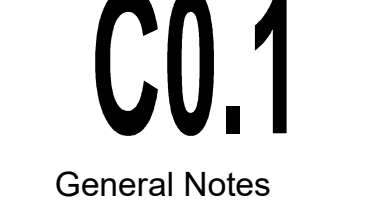
THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE TREES THAT CANNOT BE REPAIRED AND RESTORED TO A HEALTHY STATUS, AS DETERMINED BY THE URBAN FORESTER. REPLACEMENT TREES SHALL BE IN GOOD HEALTH AND SHALL BE EQUAL IN SPECIES, HEIGHT, SHAPE, AND CALIPER TO THE TREE(S) BEING REPLACED.



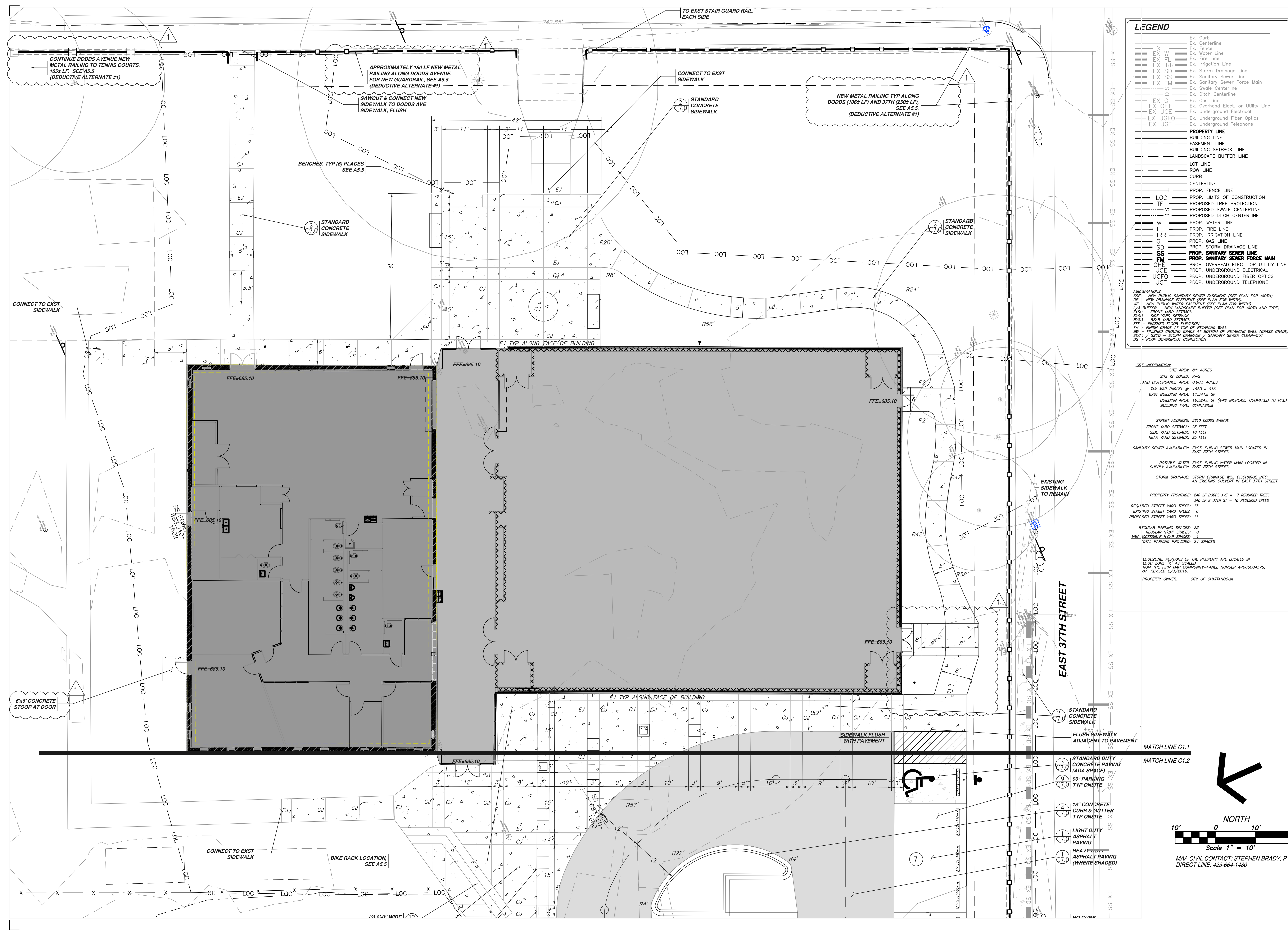
ISSUE DATES INITIAL ISSUE 12/20/19

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JOB NO. 18-072 | D'WN SDB | CK'D MH







**LEGEND**

EX-CU	Ex. Curb
EX-FL	Ex. Centerline
EX-SD	Ex. Water Line
EX-FM	Ex. Fire Line
EX-UG	Ex. Irrigation Line
EX-UGFO	Ex. Storm Drainage Line
EX-UGT	Ex. Sanitary Sewer Line
EX-SS	Ex. Sanitary Sewer Force Main
EX-SW	Ex. Swale Centerline
EX-D	Ex. Ditch Centerline
EX-G	Ex. Gas Line
EX-O	Ex. Overhead Elect. or Utility Line
EX-UE	Ex. Underground Electrical
EX-UGFO	Ex. Underground Fiber Optics
EX-UGT	Ex. Underground Telephone
<b>PROPERTY LINE</b>	
---	BUILDING LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. LIMITS OF CONSTRUCTION
---	PROPOSED TREE PROTECTION
---	PROPOSED SWALE CENTERLINE
---	PROPOSED DITCH CENTERLINE
---	PROP. WATER LINE
---	PROP. FIRE LINE
---	PROP. IRRIGATION LINE
---	PROP. GAS LINE
---	PROP. STORM DRAINAGE LINE
---	PROP. SANITARY SEWER LINE
---	PROP. SANITARY SEWER FORCE MAIN
---	PROP. OVERHEAD ELECT. OR UTILITY LINE
---	PROP. UNDERGROUND ELECTRICAL
---	PROP. UNDERGROUND FIBER OPTICS
---	PROP. UNDERGROUND TELEPHONE

**ABBREVIATIONS:**  
 SEE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).  
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).  
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).  
 LVA - BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).  
 FYSH - FRONT YARD SETBACK  
 RYSH - REAR YARD SETBACK  
 FFE - FINISHED FLOOR ELEVATION  
 TW - FINISH GRADE AT TOP OF RETAINING WALL  
 FFG - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE)  
 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT  
 DS - ROOF DOWNSPOUT CONNECTION

**SITE INFORMATION:**  
 SITE AREA: 8.8 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.90± ACRES  
 TAX MAP PARCEL #: 188B J 016  
 EXST BUILDING AREA: 11,341± SF  
 BUILDING AREA: 16,324± SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM

STREET ADDRESS: 3610 DODDS AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

SANITARY SEWER AVAILABILITY: EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.  
 POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: EAST 37TH STREET.

STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.

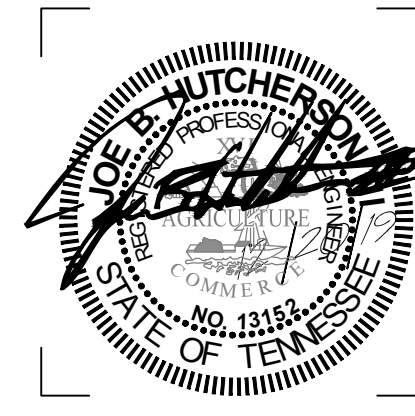
PROPERTY FRONTAGE: 240 LF DODDS AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES  
 REQUIRED STREET YARD TREES: 17  
 EXISTING STREET YARD TREES: 6  
 PROPOSED STREET YARD TREES: 11

REGULAR PARKING SPACES: 23  
 REGULAR HYCAP SPACES: 0  
 VAN ACCESSIBLE HYCAP SPACES: 1  
 TOTAL PARKING PROVIDED: 24 SPACES

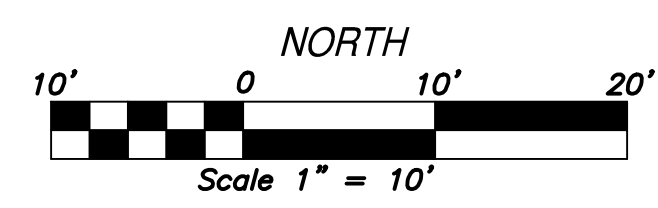
FLOODZONE PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "X" AS SCALED FROM THE FIRM MAP COMMUNITY-PANEL NUMBER 47065004570, MAP REVISED 2/3/2016.  
 PROPERTY OWNER: CITY OF CHATTANOOGA

# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402



ISSUE DATES  
 INITIAL ISSUE 12/20/19  
 ADDENDUM 6 01/14/20

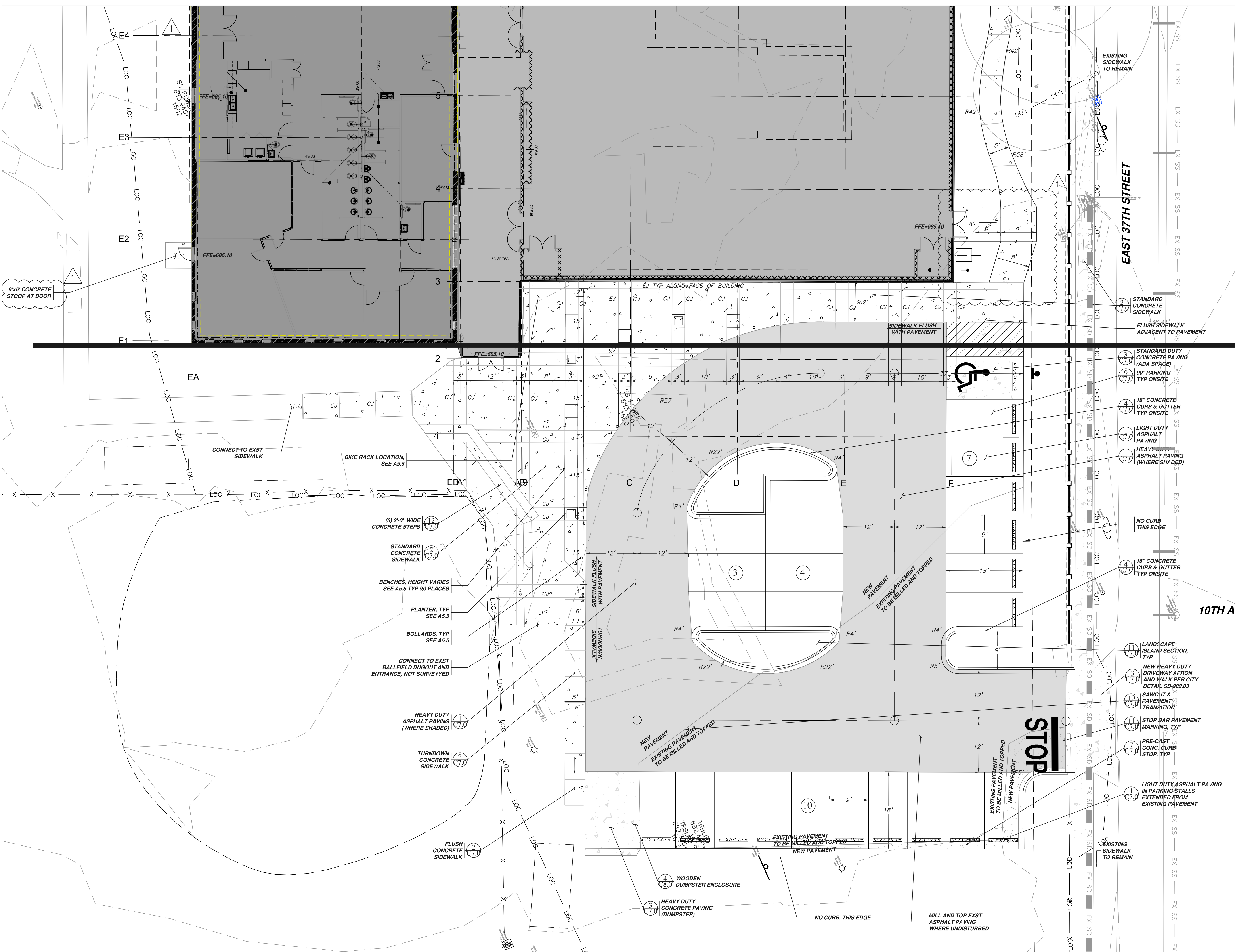


JOB NO. 18-072 | D'WN SDB | CK'D MH



# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402

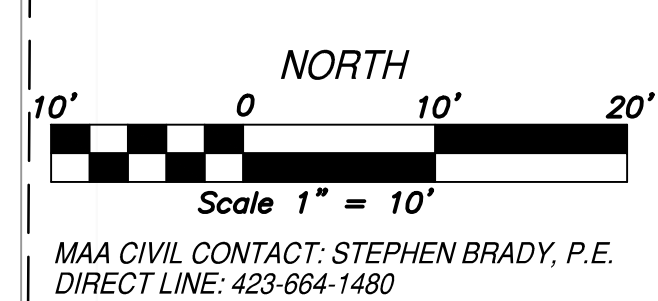


**EAST 37TH STREET**

**10TH AVE**

- 1 STANDARD DUTY CONCRETE PAVING (ADA SPACE)
- 2 90° PARKING TYP ONSITE
- 3 18" CONCRETE CURB & GUTTER TYP ONSITE
- 4 LIGHT DUTY ASPHALT PAVING
- 5 HEAVY DUTY ASPHALT PAVING (WHERE SHADED)
- 6 NO CURB THIS EDGE
- 7 18" CONCRETE CURB & GUTTER TYP ONSITE
- 8 LANDSCAPE ISLAND SECTION, TYP
- 9 NEW HEAVY DUTY DRIVEWAY APRON AND WALK PER CITY DETAIL SD-202.03
- 10 SAWCUT & PAVEMENT TRANSITION
- 11 STOP BAR PAVEMENT MARKING, TYP
- 12 PRE-CAST CONC. CURB STOP, TYP
- 13 LIGHT DUTY ASPHALT PAVING IN PARKING STALLS EXTENDED FROM EXISTING PAVEMENT

MATCH LINE C1.1  
 MATCH LINE C1.2



MAA CIVIL CONTACT: STEPHEN BRADY, P.E.  
 DIRECT LINE: 423-664-1480



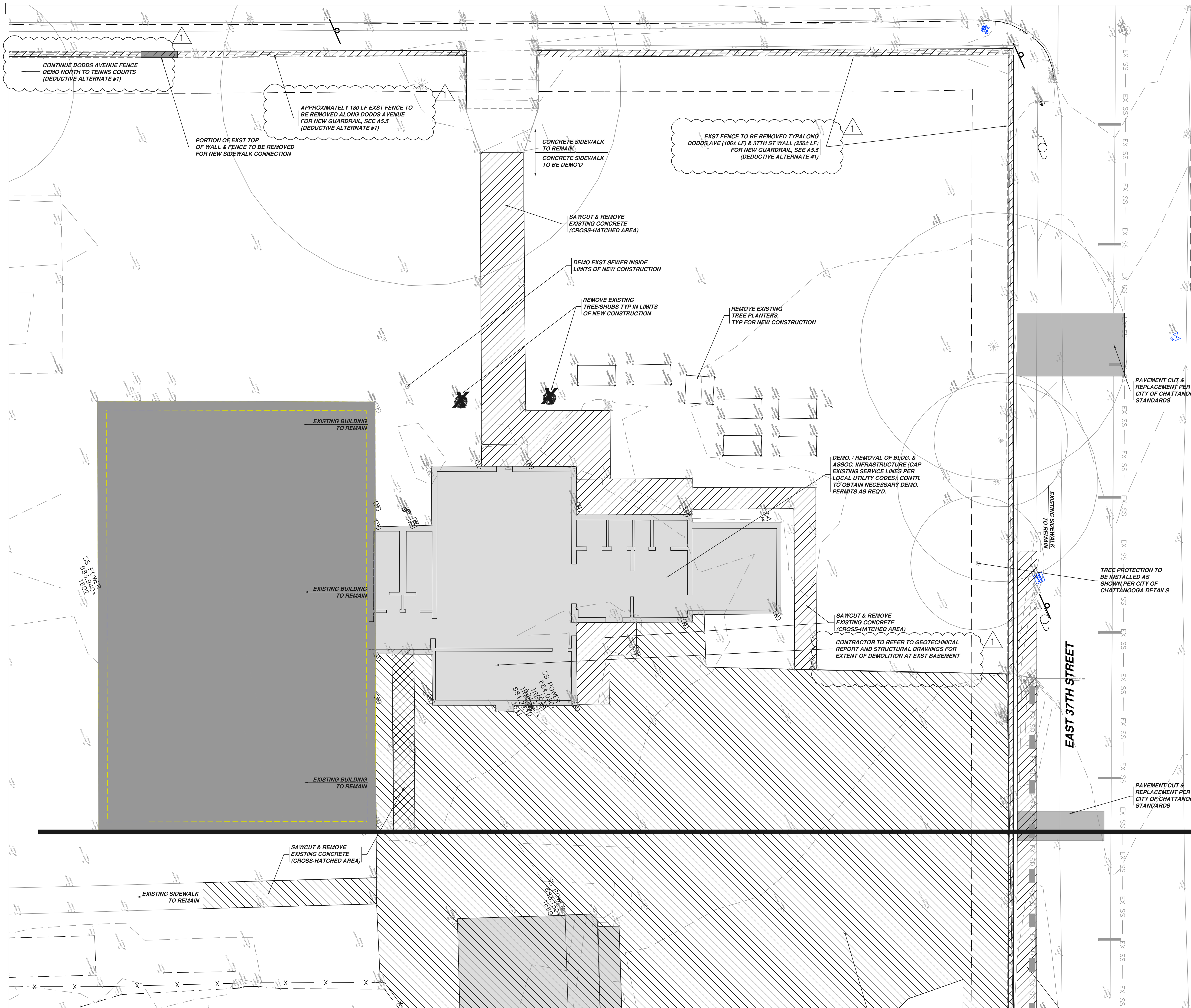
ISSUE DATES  
 INITIAL ISSUE 12/20/19  
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JOB NO. 18-072 D'WN SDB CK'D MH

# C1.2

Site Grading Plan





**LEGEND**

Ex. Curb	EX CS
Ex. Centerline	EX CL
Ex. Fence	EX F
Ex. Water Line	EX W
Ex. Fire Line	EX FL
Ex. Irrigation Line	EX IRR
Ex. Storm Drainage Line	EX SD
Ex. Sanitary Sewer Line	EX SS
Ex. Sanitary Sewer Force Main	EX FM
Ex. Swale Centerline	EX S
Ex. Ditch Centerline	EX D
Ex. Gas Line	EX G
Ex. Overhead Elect. or Utility Line	EX OHE
Ex. Underground Electrical	EX UGEE
Ex. Underground Fiber Optics	EX UGFO
Ex. Underground Telephone	EX UGT

**PROPERTY LINE**

BUILDING LINE	BL
EASEMENT LINE	EL
BUILDING SETBACK LINE	BSL
LANDSCAPE BUFFER LINE	LBL
LOT LINE	LL
ROW LINE	RL
CURB	C
CENTERLINE	CL
PROP. FENCE LINE	PF
PROP. LIMITS OF CONSTRUCTION	PLC
PROPOSED TREE PROTECTION	TF
PROPOSED SWALE CENTERLINE	SW
PROPOSED DITCH CENTERLINE	D
PROP. WATER LINE	W
PROP. FIRE LINE	FL
PROP. IRRIGATION LINE	IRR
PROP. GAS LINE	G
PROP. STORM DRAINAGE LINE	SD
PROP. SANITARY SEWER LINE	SS
PROP. SANITARY SEWER FORCE MAIN	FM
PROP. OVERHEAD ELECT. OR UTILITY LINE	OHE
PROP. UNDERGROUND ELECTRICAL	UGE
PROP. UNDERGROUND FIBER OPTICS	UGFO
PROP. UNDERGROUND TELEPHONE	UGT

**ABBREVIATIONS:**

SS - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH)  
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH)  
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH)  
 L/A BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE)  
 FYSB - FRONT YARD SETBACK  
 SSB - SIDE YARD SETBACK  
 RYSB - REAR YARD SETBACK  
 FFE - FINISHED FLOOR ELEVATION  
 TW - FINISH GRADE AT TOP OF RETAINING WALL  
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE)  
 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT  
 DS - ROOF DOWNSPOUT CONNECTION

**SITE INFORMATION:**

SITE AREA: 8.8 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.90± ACRES  
 TAX MAP PARCEL #: 168B J 016  
 EXST BUILDING AREA: 11,341± SF  
 BUILDING AREA: 16,324± SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM

STREET ADDRESS: 3610 DODDS AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

SANITARY SEWER AVAILABILITY: EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.  
 POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: EAST 37TH STREET.  
 STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.

PROPERTY FRONTAGE: 240 LF DODDS AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES  
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 EXISTING STREET YARD TREES: 6  
 PROPOSED STREET YARD TREES: 11

REGULAR PARKING SPACES: 23  
 REGULAR H/CAP SPACES: 0  
 VAN ACCESSIBLE H/CAP SPACES: 1  
 TOTAL PARKING PROVIDED: 24 SPACES

FLOODZONE PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "X" AS SCALED FROM THE FIRM MAP COMMUNITY-PANEL NUMBER 47065004570, MAP REVISED 2/3/2016.  
 PROPERTY OWNER: CITY OF CHATTANOOGA

**NOTE:**

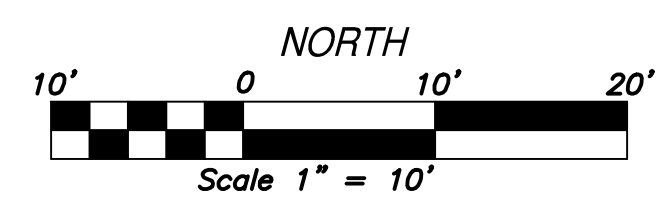
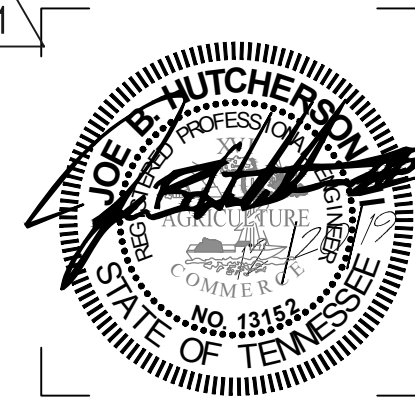
CONTRACTOR TO REFER TO STRUCTURAL AND ARCHITECTURAL SHEETS FOR ADDITIONAL REQUIREMENTS OF DEMO OF EXISTING.

FOUNDRY SAND WAS LOCATED ON SITE PER THE GEOTECHNICAL REPORT. CONTRACTOR RESPONSIBLE FOR TESTING AND PROPER DISPOSAL OF ONSITE CONTAMINATED SOIL.

**ITEMS TO BE SALVAGE INCLUDE:**

1. EXTERIOR FLOOD LIGHTS (LED) MOUNTED TO THE EXISTING GYM.
2. INTERIOR LED BULBS IN OLD FLUORESCENT FIXTURES
3. INTERIOR GYM LED FIXTURES
4. BACKBOARDS
5. BACKBOARD SUPPORTS
6. SCOREBOARDS
7. EXTERIOR BIKE RACK

MATCH LINE C2.1



MAA CIVIL CONTACT: STEPHEN BRADY, P.E.  
 DIRECT LINE: 423-664-1480

**ISSUE DATES**

INITIAL ISSUE 12/20/19  
 ADDENDUM 6 01/14/20

JOB NO. 18-072 | D'WN SDB | CK'D MH

**C2.1**

Existing Conditions & Demolition Plan





MATCH LINE C2.1  
MATCH LINE C2.2

LEGEND	
---	Ex. Curb
---	Ex. Centerline
---	Ex. Fence
---	Ex. Water Line
---	Ex. Fire Line
---	Ex. Irrigation Line
---	Ex. Storm Drainage Line
---	Ex. Sanitary Sewer Line
---	Ex. Sanitary Sewer Force Main
---	Ex. Swale Centerline
---	Ex. Ditch Centerline
---	Ex. Gas Line
---	Ex. Overhead Elect. or Utility Line
---	Ex. Underground Electrical
---	Ex. Underground Fiber Optics
---	Ex. Underground Telephone
PROPERTY LINE	
---	BUILDING LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. LIMITS OF CONSTRUCTION
---	PROPOSED TREE PROTECTION
---	PROPOSED SWALE CENTERLINE
---	PROPOSED DITCH CENTERLINE
---	PROP. WATER LINE
---	PROP. FIRE LINE
---	PROP. IRRIGATION LINE
---	PROP. GAS LINE
---	PROP. STORM DRAINAGE LINE
---	PROP. SANITARY SEWER LINE
---	PROP. SANITARY SEWER FORCE MAIN
---	PROP. OVERHEAD ELECT. OR UTILITY LINE
---	PROP. UNDERGROUND ELECTRICAL
---	PROP. UNDERGROUND FIBER OPTICS
---	PROP. UNDERGROUND TELEPHONE

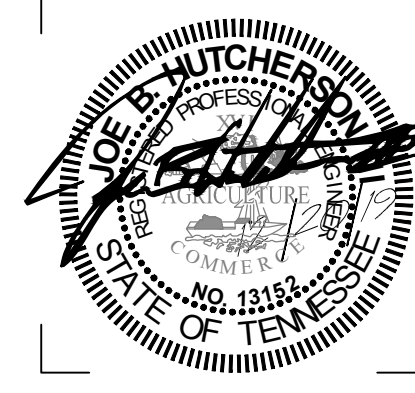
**ABBREVIATIONS:**  
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).  
 SE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).  
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 LVA BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).  
 FYSB - FRONT YARD SETBACK.  
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 FFE - FINISHED FLOOR ELEVATION.  
 TW - FINISH GRADE AT TOP OF RETAINING WALL.  
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE).  
 SDCO / SSCD - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT.  
 DS - ROOF DOWNSPOUT CONNECTION.

**SITE INFORMATION:**  
 SITE AREA: 8.2 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.90+ ACRES  
 TAX MAP PARCEL #: 1888 J 016  
 EXST BUILDING AREA: 11,341± SF  
 BUILDING AREA: 16,324± SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM  
 STREET ADDRESS: 3610 DODDS AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET  
 SANITARY SEWER AVAILABILITY: EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.  
 POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: EAST 37TH STREET.  
 STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.  
 PROPERTY FRONTAGE: 240 LF DODDS AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES  
 REQUIRED STREET YARD TREES: 17  
 EXISTING STREET YARD TREES: 6  
 PROPOSED STREET YARD TREES: 11  
 REGULAR PARKING SPACES: 23  
 REGULAR H/CAP SPACES: 0  
 VAN ACCESSIBLE H/CAP SPACES: 1  
 TOTAL PARKING PROVIDED: 24 SPACES  
 FLOODZONE: PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "X" AS SHOWN FROM THE FIRM MAP COMMUNITY-PANEL NUMBER 4706500457G. MAP REVISED 2/21/2016.  
 PROPERTY OWNER: CITY OF CHATTANOOGA

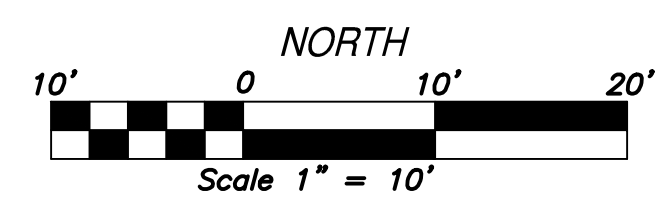
**ARTECH**  
 1410 COWART STREET  
 CHATTANOOGA, TN 37408  
 423.265.4313  
 WWW.ARTECH.PRO

# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402



ISSUE DATES  
 INITIAL ISSUE 12/20/19  
 ADDENDUM 6 01/14/20



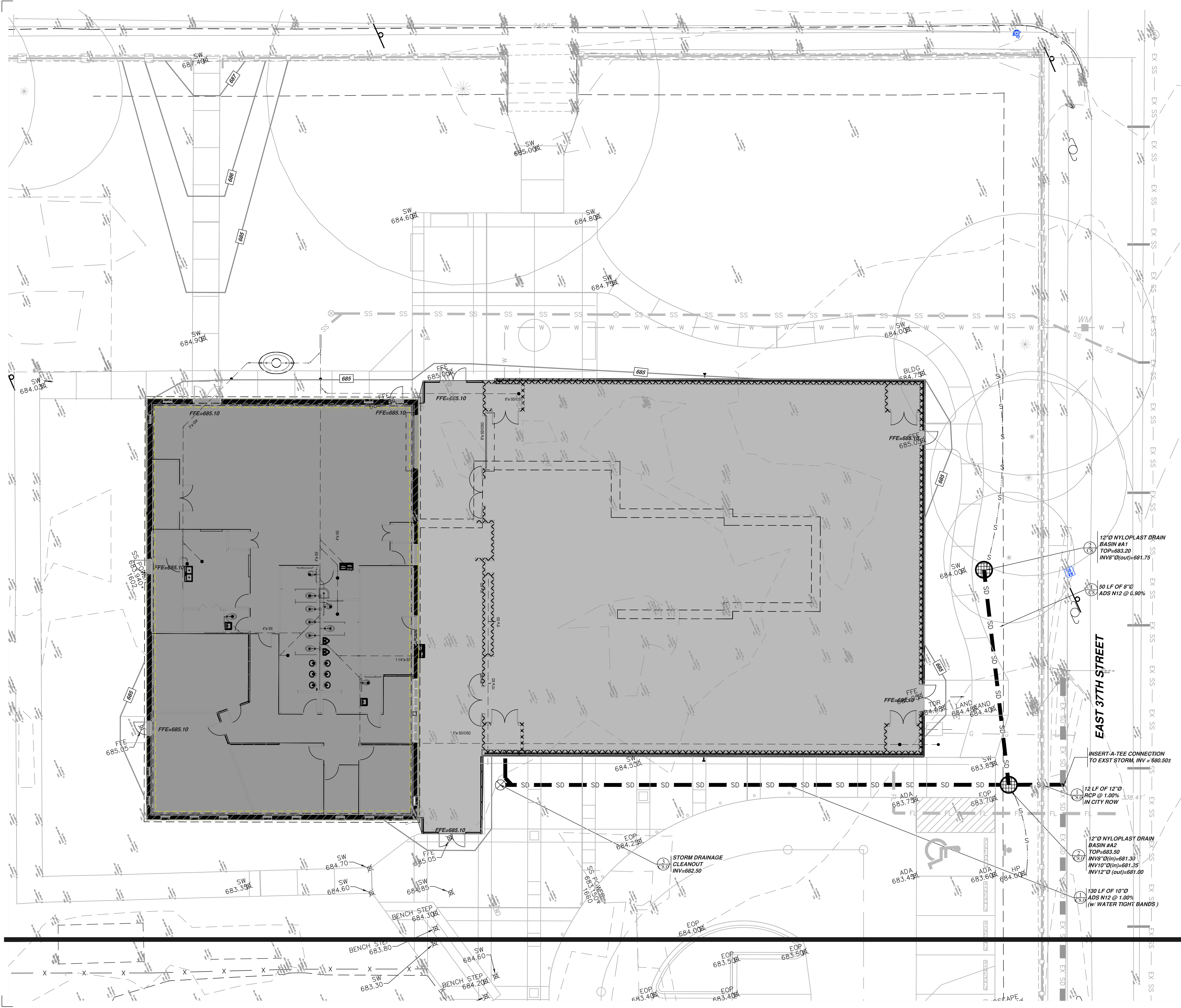
MAA CIVIL CONTACT: STEPHEN BRADY, P.E.  
 DIRECT LINE: 423-664-1480

JOB NO. 18-072 | D'WN SDB | CK'D MH

# C2.2

Existing Conditions & Demolition Plan





**LEGEND**

EX	Ex. Curb
EX	Ex. Centerline
EX	Ex. Fence
EX	Ex. Water Line
EX	Ex. Fire Line
EX	Ex. Irrigation Line
EX	Ex. Storm Drainage Line
EX	Ex. Sanitary Sewer Line
EX	Ex. Sanitary Sewer Force Main
EX	Ex. Swale Centerline
EX	Ex. Ditch Centerline
EX	Ex. Gas Line
EX	Ex. Overhead Elect. or Utility Line
EX	Ex. Underground Electrical
EX	Ex. Underground Fiber Optics
EX	Ex. Underground Telephone

**PROPERTY LINE**

---	BUILDING LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
---	CURB
---	CENTERLINE
---	PROP. FENCE LINE
---	PROP. LIMITS OF CONSTRUCTION
---	PROPOSED TREE PROTECTION
---	PROPOSED SWALE CENTERLINE
---	PROPOSED DITCH CENTERLINE
---	PROP. WATER LINE
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---	PROP. STORM DRAINAGE LINE
---	PROP. SANITARY SEWER LINE
---	PROP. SANITARY SEWER FORCE MAIN
---	PROP. OVERHEAD ELECT. OR UTILITY LINE
---	PROP. UNDERGROUND ELECTRICAL
---	PROP. UNDERGROUND FIBER OPTICS
---	PROP. UNDERGROUND TELEPHONE

**ABBREVIATIONS:**

SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).  
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).  
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).  
 L/A BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).  
 FYSB - FRONT YARD SETBACK  
 SYSB - SIDE YARD SETBACK  
 RYSB - REAR YARD SETBACK  
 FFE - FINISHED FLOOR ELEVATION  
 FFG - FINISH GRADE AT TOP OF RETAINING WALL  
 BW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE)  
 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT  
 DS - ROOF DOWNSPOUT CONNECTION

**SITE INFORMATION:**

SITE AREA: 8.4 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.908 ACRES  
 TAX MAP PARCEL # 1888 U 016  
 EXIST BUILDING AREA: 11,314 SF  
 BUILDING AREA: 16,324 SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM

**STREET ADDRESS:** 3610 DODDS AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

**SANITARY SEWER AVAILABILITY:** EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.

**POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY:** EAST 37TH STREET.

**STORM DRAINAGE:** STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.

**PROPERTY FRONTAGE:** 240 LF DODDS AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES

**REQUIRED STREET YARD TREES:** 17  
**EXISTING STREET YARD TREES:** 6  
**PROPOSED STREET YARD TREES:** 11

**REGULAR PARKING SPACES:** 23  
**REGULAR HOUP SPACES:** 0  
**VAN ACCESSIBLE HOUP SPACES:** 1  
**TOTAL PARKING PROVIDED:** 24 SPACES

**FLOODZONING:** PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "1" AS SHOWN ON THE FIRM MAP COMMUNITY-PANEL NUMBER 47065004570, MAP REVISED 2/3/2016.

**PROPERTY OWNER:** CITY OF CHATTANOOGA

- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNER'S AGENT SHALL:**
- SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT AND SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM (EX. CATCH BASINS, CONDUITS, HYDROLOGIC FEATURES INCLUDING PONDS, STREAMS, CULVERT INLETS AND OUTFALLS, AND ALL PVIOUS SURFACES, ETC).
  - COMPLY WITH ALL PERMANENT LANDSCAPING REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S LANDSCAPE INSPECTOR. AN APPOINTMENT MAY BE SCHEDULED BY CALLING 423-643-5837 A MINIMUM OF TWO BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION & SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).
- NOTES**
- SEE SHEET C0.1 FOR GENERAL AND GRADING AND DRAINAGE NOTES.
  - REFER TO GEOTECHNICAL REPORT FOR UNDERCUTTING REQUIREMENTS (60" BELOW FOUNDATIONS/FLOORS; 15" BELOW PAVEMENTS)
  - CROSS SLOPES OF SIDEWALKS NOT TO EXCEED 2.00% SLOPE.
  - ANY EXCAVATED SLOPE 3:1 OR STEEPER IS TO BE STABILIZED WITHIN 7 DAYS.
  - CONTRACTOR SHALL NOTIFY SURVEYOR AND CITY STORM WATER INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY COVER PLACED ON UNDERGROUND SYSTEMS. FAILURE TO DO SO MAY RESULT IN RE-EXCAVATION.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STORM WATER AS-BUILT AT THE CLOSE OUT OF PROJECT. AS-BUILT DRAWINGS SHALL BE ACCOMPANIED BY AS-BUILT PHOTOGRAPHS MADE DURING THE SURVEY/INSPECTION. MARCH ADAMS & ASSOCIATES CAN HELP PROVIDE THESE PHOTOGRAPHS, PROVIDED THAT 72 HOUR NOTICE IS PROVIDED BY THE CONTRACTOR.

**ARTTECH**  
 1410 COWART STREET  
 CHATTANOOGA, TN 37408  
 423.265.4313  
 WWW.ARTECH.PRO

# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402

**ISSUE DATES**

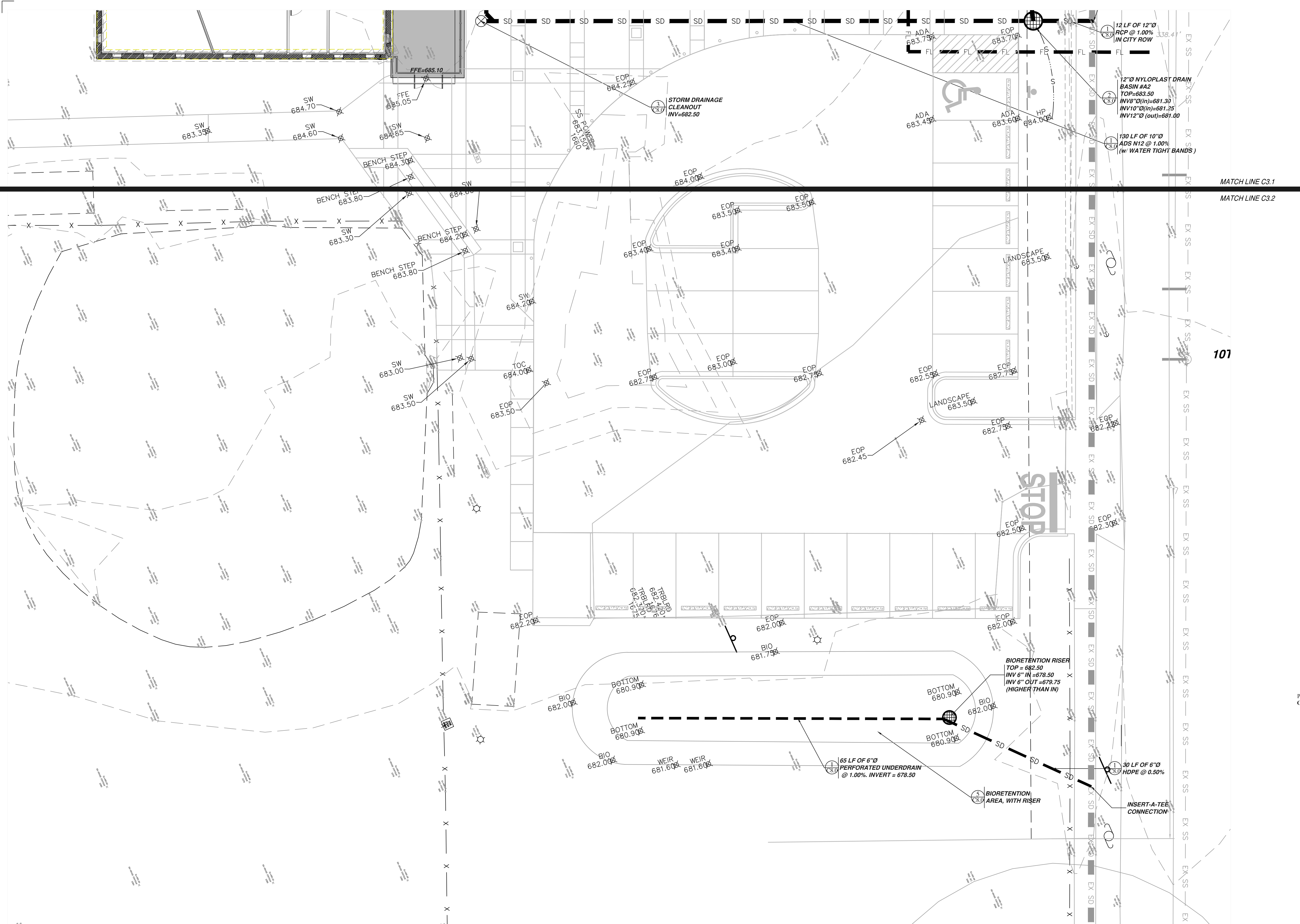
INITIAL ISSUE	12/20/19
ADDENDUM 6	01/14/20

JOB NO. 18-072 | D'WN SDB | CK'D MH

# C3.1

Site Grading Plan





**LEGEND**

EX C	Ex. Curb
EX CL	Ex. Centerline
EX W	Ex. Water Line
EX FL	Ex. Fire Line
EX IRR	Ex. Irrigation Line
EX SD	Ex. Storm Drainage Line
EX SS	Ex. Sanitary Sewer Line
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EX OHE	Ex. Overhead Elect. or Utility Line
EX UGE	Ex. Underground Electrical
EX UGFO	Ex. Underground Fiber Optics
EX UGT	Ex. Underground Telephone

**PROPERTY LINE**

---	BUILDING LINE
---	EASEMENT LINE
---	BUILDING SETBACK LINE
---	LANDSCAPE BUFFER LINE
---	LOT LINE
---	ROW LINE
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---	CENTERLINE
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**ABBREVIATIONS:**

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 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT  
 DS - ROOF DOWNSPOUT CONNECTION

**SITE INFORMATION:**

SITE AREA: 0.8 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.3018 ACRES  
 TAX MAP PARCELS: 1888 U 016  
 EXST. BUILDING AREA: 11,341.4 SF  
 BUILDING AREA: 16,324.4 SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM

**STREET ADDRESS:** 3610 DODDS AVENUE

FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

**SANITARY SEWER AVAILABILITY:** EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.

**POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY:** EAST 37TH STREET.

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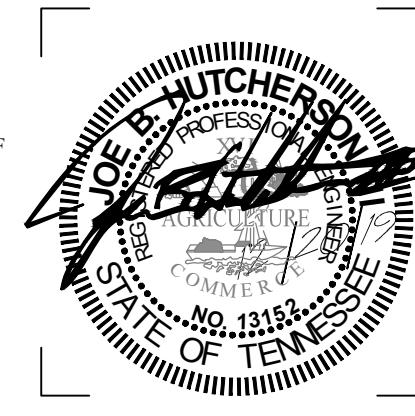
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**REGULAR HOVAP SPACES:** 0  
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- PRIOR TO FINAL ACCEPTANCE BY THE CITY ENGINEER AND/OR ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE OWNER OR OWNER'S AGENT SHALL:
- SUBMIT AN INVENTORY OF THE CONSTRUCTED STORMWATER DRAINAGE SYSTEM, WHETHER PUBLIC OR PRIVATE, TO THE CITY OF CHATTANOOGA IN ELECTRONIC FORMAT. ELECTRONIC AS-BUILT DRAWINGS SHALL BE SUBMITTED IN AUTOCAD AND PDF FORMAT AND SHALL SHOW PLAINLY THE APPROVED AND CONSTRUCTED LAYOUT OF THE STORMWATER SYSTEMS. THE AS-BUILT DRAWING SHALL INCLUDE ALL STORMWATER FEATURES, WHETHER NEW OR EXISTING, INCLUDING THE OUTFALL TO THE CITY DRAINAGE SYSTEM (EX. CATCH BASINS, CONDUITS, HYDROLOGIC FEATURES INCLUDING PONDS, STREAMS, CULVERT INLETS AND OUTFALLS, AND ALL PERVIOUS SURFACES, ETC.).
  - COMPLY WITH ALL PERMANENT LANDSCAPING REQUIREMENTS AND SCHEDULE A LANDSCAPE INSPECTION WITH THE CITY OF CHATTANOOGA'S LANDSCAPE INSPECTOR. AN APPOINTMENT MAY BE SCHEDULED BY CALLING 423-643-5837 A MINIMUM OF TWO BUSINESS DAYS BEFORE THE DESIRED INSPECTION APPOINTMENT.
  - ALL EROSION AND SEDIMENT CONTROL PRACTICES MUST COMPLY WITH THE CURRENT EDITION OF THE TN EROSION & SEDIMENT CONTROL MANUAL, THE CITY OF CHATTANOOGA BMP MANUAL, AND THE TDEC CONSTRUCTION GENERAL PERMIT (IF APPLICABLE).
- NOTES**
- SEE SHEET C0.1 FOR GENERAL AND GRADING AND DRAINAGE NOTES.
  - CROSS SLOPES OF SIDEWALKS NOT TO EXCEED 2.00% SLOPE.
  - ANY EXCAVATED SLOPE 3:1 OR STEEPER IS TO BE STABILIZED WITHIN 7 DAYS.
  - CONTRACTOR SHALL NOTIFY SURVEYOR AND CITY STORM WATER INSPECTOR AT LEAST 48 HOURS PRIOR TO ANY COVER PLACED ON UNDERGROUND SYSTEMS. FAILURE TO DO SO MAY RESULT IN RE-EXCAVATION.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING A STORM WATER AS-BUILT AT THE CLOSE OUT OF PROJECT. AS-BUILT DRAWINGS SHALL BE ACCOMPANIED BY AS-BUILT PHOTOGRAPHS MADE DURING THE SURVEY/INSPECTION. MARCH ADAMS & ASSOCIATES CAN HELP PROVIDE THESE PHOTOGRAPHS, PROVIDED THAT 72 HOUR NOTICE IS PROVIDED BY THE CONTRACTOR.

**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402

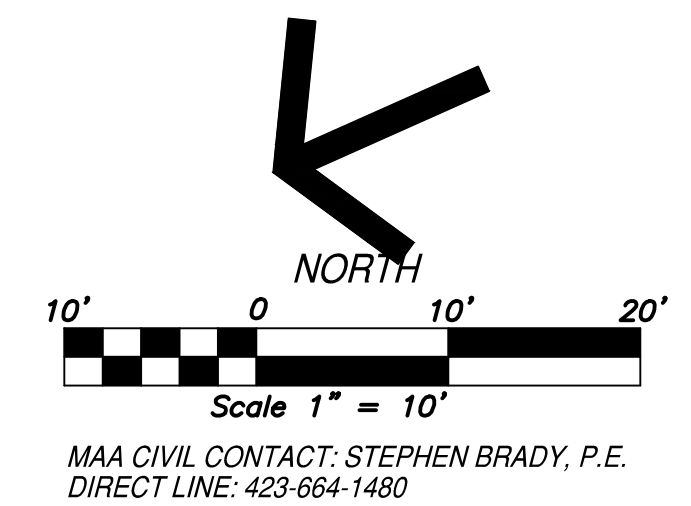


ISSUE DATES  
 INITIAL ISSUE 12/20/19

JOB NO. 18-072 D'WN SDB CK'D MH

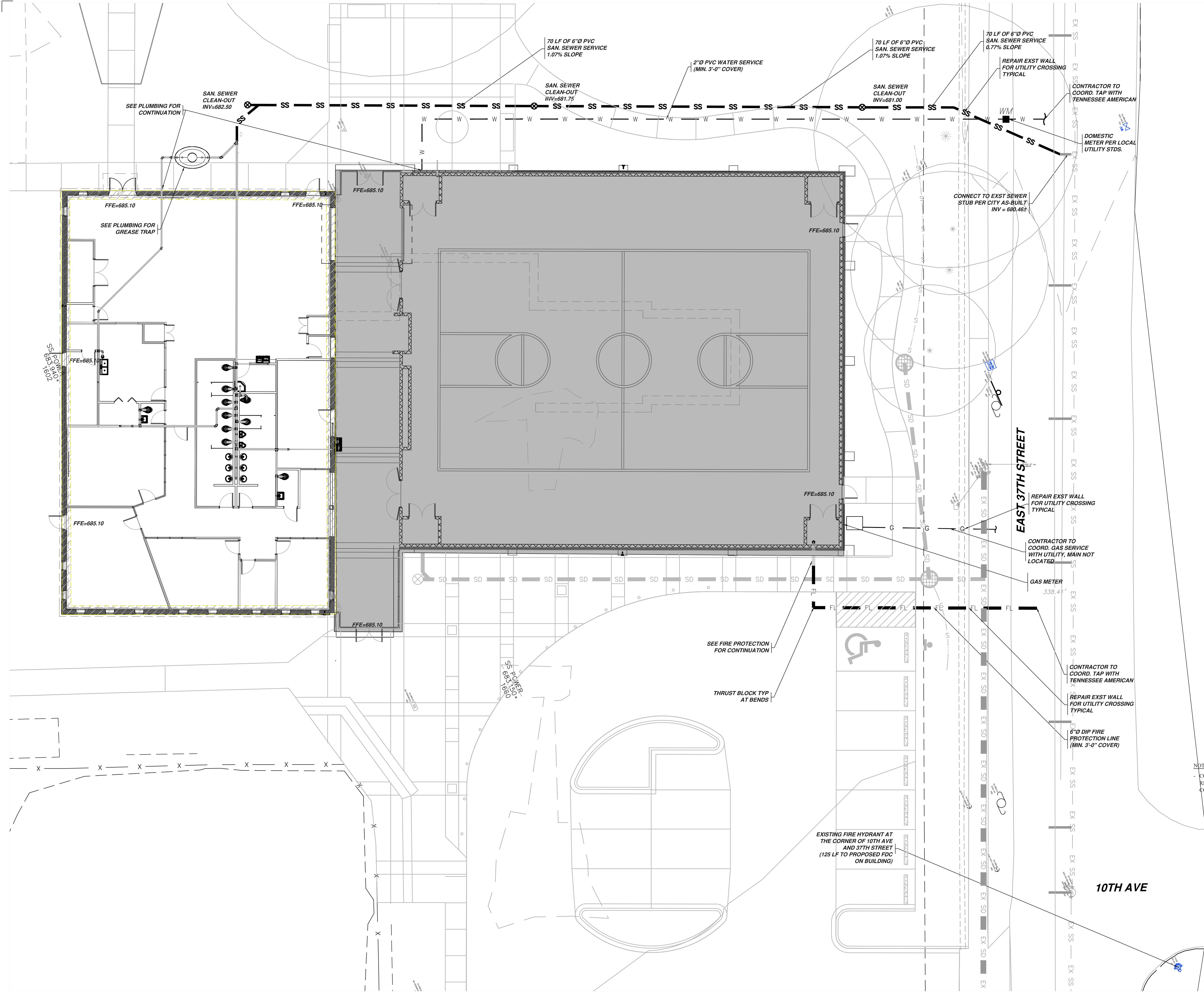
**C3.2**

Site Grading Plan



MAA CIVIL CONTACT: STEPHEN BRADY, P.E.  
 DIRECT LINE: 423-664-1480





**LEGEND**

EX C	Ex. Curb
EX CL	Ex. Centerline
EX W	Ex. Water Line
EX FL	Ex. Fire Line
EX IRR	Ex. Irrigation Line
EX SD	Ex. Storm Drainage Line
EX S	Ex. Sanitary Sewer Line
EX SSM	Ex. Sanitary Sewer Force Main
EX SW	Ex. Swale Centerline
EX DC	Ex. Ditch Centerline
EX G	Ex. Gas Line
EX OUE	Ex. Overhead Elect. or Utility Line
EX UGE	Ex. Underground Electrical
EX UGFO	Ex. Underground Fiber Optics
EX UGT	Ex. Underground Telephone
<b>PROPERTY LINE</b>	
BL	BUILDING LINE
EL	EASEMENT LINE
BSL	BUILDING SETBACK LINE
LBSL	LANDSCAPE BUFFER LINE
LL	LOT LINE
RL	ROW LINE
C	CURB
CL	CENTERLINE
LOC	PROP. FENCE LINE
TF	PROP. LIMITS OF CONSTRUCTION
PT	PROPOSED TREE PROTECTION
SWC	PROPOSED SWALE CENTERLINE
DC	PROPOSED DITCH CENTERLINE
W	PROP. WATER LINE
FL	PROP. FIRE LINE
IRR	PROP. IRRIGATION LINE
G	PROP. GAS LINE
SD	PROP. STORM DRAINAGE LINE
S	PROP. SANITARY SEWER LINE
S	PROP. SANITARY SEWER FORCE MAIN
OUE	PROP. OVERHEAD ELECT. OR UTILITY LINE
UGE	PROP. UNDERGROUND ELECTRICAL
UGFO	PROP. UNDERGROUND FIBER OPTICS
UGT	PROP. UNDERGROUND TELEPHONE

**ABBREVIATIONS:**  
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).  
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).  
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).  
 LA BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).  
 FYSB - FRONT YARD SETBACK  
 SFSB - SIDE YARD SETBACK  
 RYSB - REAR YARD SETBACK  
 FFE - FINISHED FLOOR ELEVATION  
 TW - FINISH GRADE AT TOP OF RETAINING WALL  
 BGW - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE)  
 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT  
 DS - ROOF DOWNSPOUT CONNECTION

**SITE INFORMATION:**  
 SITE AREA: 8.6 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.90± ACRES  
 TAX MAP PARCEL #: 188B J 016  
 EXST BUILDING AREA: 11,341± SF  
 BUILDING AREA: 16,324± SF (44% INCREASE COMPARED TO PREC)  
 BUILDING TYPE: GYMNASIUM

STREET ADDRESS: 3610 DODD'S AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

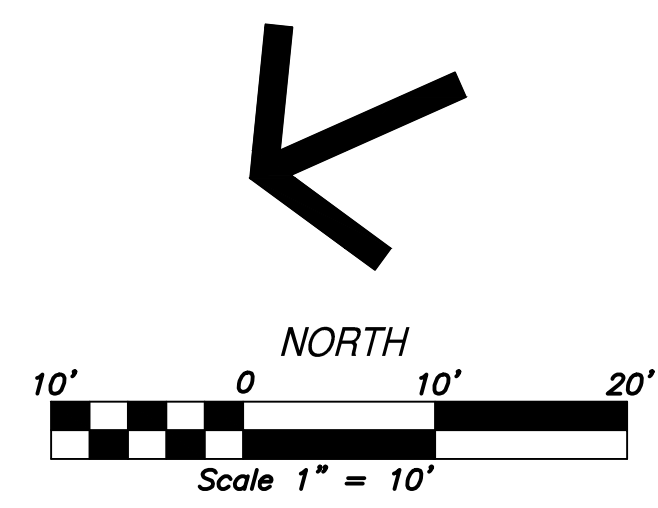
SANITARY SEWER AVAILABILITY: EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.  
 POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: EAST 37TH STREET.  
 STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.

PROPERTY FRONTAGE: 240 LF DODD'S AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES  
 REQUIRED STREET YARD TREES: 17  
 EXISTING STREET YARD TREES: 6  
 PROPOSED STREET YARD TREES: 11

REGULAR PARKING SPACES: 23  
 REGULAR HYCAP SPACES: 0  
 VAN ACCESSIBLE HYCAP SPACES: 1  
 TOTAL PARKING PROVIDED: 24 SPACES

FLOODZONE PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "X" AS SCALED FROM THE FIRM MAP COMMUNITY-PANEL NUMBER 47065C04570, MAP REVISED 2/3/2016.  
 PROPERTY OWNER: CITY OF CHATTANOOGA

**NOTE**  
 CONTRACTOR TO CONTACT RICK DAVIS AT CITY OF CHATTANOOGA (423-643-5952; RLDAVIS@CHATTANOOGA.GOV) 4 WEEKS PRIOR TO ROADWORK IN THE ROW TO COORDINATE ROAD OR LANE CLOSURE FOR UTILITY WORK



**East Lake YFD Center  
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 3610 Dodds Avenue, Chattanooga, TN 37402



ISSUE DATES  
 INITIAL ISSUE 12/20/19

JOB NO. 18-072 | D'WN SDB | CK'D MH



TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 10-10-10	1500LBS./AC. 400LBS./AC.	30-100 LBS./AC. 17/2 30
2. COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12 10-10-10	1500LBS./AC. 400LBS./AC.	0-50 LBS./AC. 1/
3. GROUND COVERS	FIRST MAINTENANCE	10-10-10 10-10-10	1300LBS./AC. 3/ 1100LBS./AC.	---
4. SHRUB LESPEDEZA	FIRST MAINTENANCE	0-10-10 10-10-10	700LBS./AC. 1100LBS./AC.	---
5. TEMPORARY COVER CROPS SEEDED ALONE	FIRST MAINTENANCE	10-10-10	500LBS./AC.	30 LBS./AC. 5/
6. WARM SEASON GRASSES	FIRST SECOND MAINTENANCE	6-12-12 10-10-10	1500LBS./AC. 400LBS./AC.	50-100 LBS./AC. 2/ 6/ 50-100 LBS./AC. 2/ 6/
7. WARM SEASON GRASSES AND LEGUMES	FIRST SECOND MAINTENANCE	6-12-12 10-10-10	1500LBS./AC. 400LBS./AC.	50 LBS./AC. 6/

1. APPLY IN SPRING FOLLOWING SEEDING.
2. APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
3. APPLY IN 3 SPLIT APPLICATIONS.
4. APPLY WHEN PLANTS ARE PRUNED.
5. APPLY TO GRASS SPECIES ONLY.
6. APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

**FM DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)**

**MULCHING RATES:**  
 1. DRY STRAW: 2 TONS PER ACRE.  
 2. DRY HAY: 2-1/2 TONS PER ACRE.  
 3. FOR HYDRALIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS / ACRE.

**FERTILIZER & MULCHING REQUIREMENTS**

SPECIES	BROADCAST PER ACRE PER 1000 SF	RESOURCE AREA	PLANTING DATES	REMARKS
BARLEY (HORDEUM VULGARE)	144 LBS. 3.3 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	14,000 SEED PER POUND WINTERHARDY. USE ON PRODUCTIVE SOILS.
LESPEDEZA ANNUAL (LESPEDEZA STRATA)	40 LBS. 0.9 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	200,000 SEED PER POUND MAY VOLUNTEER FOR SEVERAL YEARS USE INOCULANT E.
LOVE GRASS, WEEPING (Eragrostis curvula)	4 LBS. 0.1 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	1,500,000 SEED PER POUND MAY LAST FOR SEVERAL YEARS. MIX WITH SERICIA LESPEDEZA
MILLET BROWNIER (Panicum fasciculatum)	40 LBS. 0.9 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	137,000 SEED PER POUND. QUICK GROWER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES.
RYE (CEREAL)	3 BU 3.9 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	18,000 SEED PER POUND. QUICK COVER. DROUGHT TOLERANT AND WINTERHARDY.
RYEGRASS ANNUAL (Lolium temulentum)	40 LBS. 0.9 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	227,000 SEED PER POUND. DENSE COVER. DROUGHT TOLERANT AND WINTERHARDY.

**TS DISTURBED AREA STABILIZATION (TEMP)**

SPECIES	BROADCAST PER ACRE PER 1000 SF	RESOURCE AREA	PLANTING DATES	REMARKS
BERNARDIA COMMON HILLED SEED AND/OR OTHER PERENNIALS	10 LBS. 0.2 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SEMI-ERECT. FOL. SEMI-GOOD FOR ATHLETIC FIELDS.
BERNARDIA COMMON UNHILLED SEED W/ TEMP COVER WITH OTHER PERENNIALS	10 LBS. 0.2 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	PLANT WITH WINTER ANNUALS PLANT WITH TALL FESCUE.
DRYGRASS (PERMOCHLOA OPHUROIDES)	BLOCK SOD ONLY	M-L P	J F M A M J J A S O N D	DROUGHT TOLERANT. FULL SUN OR PARTIAL SHADE. EFFECTIVE ADJACENT TO CONC. & CONCENTRATED FLOW AREAS. IRRIGATION IS NEEDED UNTIL FULLY ESTABLISHED. DO NOT PLANT NEAR PASTURES.
CROWWITCH (DROPHILA WIND)	15 LBS. 0.3 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	100,000 SEED PER POUND. DENSE GROWTH. WINTER TOLERANT & FINE RESISTANT. USE FROM NORTH ATLANTA AND NORTHWARD.
FESCUE TALL (FESTUCA ARAUCARIA)	50 LBS. 1.1 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	227,000 SEED PER POUND. USE ALONE ON DROUGHTY SOILS. NOT FOR HEAVY USE.
LESPEDEZA (LEGUMINOSA) SCARIFIED UNSCARIFIED	70 LBS. 1.4 LBS. IN MIXTURES	M-L P	J F M A M J J A S O N D	300,000 SEED PER POUND. HEIGHT OF GROWTH IS 18 TO 24 INCHES. ADVANTAGES IN URBAN AREAS. MIX W/ WEEPING LOVE GRASS, COMMON BERNARDIA BAHIA, TALL FESCUE, OR WINTER ANNUALS. INOCULATE SEED W/ INOCULANT.

**PS DISTURBED AREA STABILIZATION (PERM)**

**SEDIMENT & EROSION CONTROL NOTES:**

1. CONTRACTOR IS TO ADHERE TO THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF CHATTANOOGA.
2. CONTRACTOR SHALL BE RESPONSIBLE DURING CONSTRUCTION FOR THE CONTINUOUS MAINTENANCE OF SEDIMENT & EROSION CONTROL MEASURES AS CALLED FOR ON THE DRAWINGS & PER THE TM EROSION & SEDIMENT CONTROL HANDBOOK & THE REQUIREMENTS OF THE CITY OF CHATTANOOGA.
3. SEDIMENT & EROSION CONTROL FACILITIES, & STORM DRAINAGE FACILITIES SHALL BE CONSTRUCTED PRIOR TO ANY OTHER CONSTRUCTION.
4. SEDIMENT & EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE & UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
5. ALL GRADED AREAS SHALL BE STABILIZED WITH A TEMPORARY FAST GROWING COVER AND/OR MULCH, NO LATER THAN 2 WEEKS AFTER EARTH DISTURBING ACTIVITY ENDS IN THOSE AREAS WHERE GRADING ACTIVITY HAS CEASED & FINE GRADING WILL NOT TAKE PLACE FOR AT LEAST 15 DAYS.
6. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED, REPAIRED AS NEEDED & CLEANED OUT TO REMOVE ALL SILT & DEBRIS.
7. SEEDING & FERTILIZING RATES FOR TEMPORARY AND PERMANENT STANDS OF GRASS SHALL BE PER CHARTS ON DETAIL SHEET.
8. ADDITIONAL EROSION CONTROL DEVICES SHALL BE USED AS REQUIRED.
9. SILT FENCE AND/OR SILT LOGS SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO 50% CAPACITY OF SILT FENCE AND/OR SILT LOGS.
10. IF ANY FINES OR PENALTIES ARE LEVIED AGAINST THE PROPERTY OR PROPERTY OWNER BECAUSE OF LACK OF EROSION AND/OR SEDIMENT CONTROL, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF SUCH FINES OR PENALTIES OR THE COST OF ANY FINES OR PENALTIES SHALL BE DEDUCTED FROM THE CONTRACT AMOUNT.
11. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
12. CONSTRUCTION EXIT SHALL BE MAINTAINED ON A CONTINUOUS BASIS.
13. THE CONTRACTOR SHALL USE WHATEVER MEASURES ARE REQUIRED TO PREVENT SILT & CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES. THIS CAN BE ACCOMPLISHED BY SMALL TEMPORARY SEDIMENT POINTS, SILT FENCES OF STEEL WIRE & BUNDLES OR BARRIERS OF CEDAR TREES AND/OR BALES OF STRAW. CONTRACTOR SHALL COMPLY WITH ALL LOCAL EROSION, CONSERVATION, & SILTATION ORDINANCES. CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL STRUCTURES UPON COMPLETION OF PERMANENT DRAINAGE FACILITIES & THE ESTABLISHMENT OF A STAND OF GRASS SUFFICIENT TO PREVENT EROSION.
14. CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING, BY APPLYING CALCIUM CHLORIDE, OR BY OTHER METHODS AS DIRECTED BY ENGINEER AND/OR OWNER'S REPRESENTATIVE, AT NO ADDITIONAL COST TO OWNER.
15. CONTRACTOR TO COMPLY WITH ALL STATE & LOCAL SEDIMENT CONTROL & AIR POLLUTION ORDINANCES OR RULES.
16. ALL DISTURBED AREA TO BE GRASSED.
17. TEMPORARY EROSION CONTROL DEVICES TO BE INSTALLED PRIOR TO BEGINNING OF GRADING. CONTRACTOR SHALL MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES & SHALL REMOVE SILT FORM BERM DITCHES, SILT DAMS, & SILT FENCES AS NEEDED.
18. ALL SIDE DITCHES TO BE CLEANED AND/OR REGRADED TO PROVIDE PROPER DRAINAGE.
19. ALL AREAS NOT OTHERWISE SURFACED ARE TO BE SEED, LANDSCAPED, MULCHED, WATERED & MAINTAINED UNTIL AN ADEQUATE STAND OF GRASS IS OBTAINED.
20. SEEDING & FERTILIZING RATES FOR TEMPORARY & PERMANENT STANDS OF GRASS SHALL BE PER THE CITY OF CHATTANOOGA BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF CHATTANOOGA.

MATERIAL	RATE	DEPTH
STRAW OR HAY	2-1/2 TON/ACRE	6" TO 10"
WOOD WASTE, CHIPS, SHAWDS, BARK	6 TO 9 TON/ACRE	2" TO 3"
CUTBACK ASPHALT	1200 GAL./ACRE OR 1/4 GAL./SQ YD	----
POLYETHYLENE FILM	SECURE WITH SOIL ANCHORS, WEIGHTS	----
CUTBACK ASPHALT	SEE MANUFACTURER'S RECOMMENDATIONS	----
GEOTEXTILES, JUTE MATTING, NETTING, ETC.	RATE	----

ACTIVITY	ANTICIPATED ACTIVITY SCHEDULE											
	J	F	M	A	M	J	J	A	S	O	N	D
1. INSTALL SEDIMENT CONTROLS												
2. CLEARING & GRADING												
3. STORM DRAIN INSTALLATION												
4. SANITARY SEWER INSTALLATION												
5. UTILITY INSTALLATION												
6. GRASS (TEMP.) (PERM.)												
7. MAINTAIN EROSION CONTROL												
8. PAVING												
9. FINAL LANDSCAPING												
10. CLEAN UP												

THE ABOVE CONSTRUCTION SEQUENCES ARE ANTICIPATED SERIES OF CONSTRUCTION EVENTS, SHOULD THE SEQUENCES OF EVENTS CHANGE SIGNIFICANTLY, THE CONTRACTOR SHALL UPDATE THE STORM WATER PREVENTION PLAN (SWPPP) AS REQUIRED.

**CONTRACTOR TO AMEND 24 HOUR EMERGENCY CONTACT:**

NAME: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY/STATE/ZIP: \_\_\_\_\_  
 OFFICE PHONE: \_\_\_\_\_

**CONTRACTOR TO AMEND OWNERS REPRESENTATIVE RESPONSIBLE FOR EROSION CONTROL IS \_\_\_\_\_**

PHONE# \_\_\_\_\_  
 REPRESENTATIVE MUST BE TNEPSC LEVEL I CERTIFIED

**CITY OF CHATTANOOGA SPECIAL NOTE:**  
 SITE EROSION CONTROLS SHALL BE CHECKED AND, IF NECESSARY, REPAIRED WEEKLY & WITHIN 24 HOURS OF EACH RAINFALL GREATER THAN 1/2". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY.  
 THE PERMITTEE SHALL MAINTAIN RECORD OF SUCH CHECKS & REPAIRS. THESE RECORDS MUST BE KEPT ON-SITE OR IN THE OFFICE OF THE RESPONSIBLE PERSON & AVAILABLE FOR REVIEW AT ANY TIME BY STORM WATER PERSONNEL. THESE RECORDS MUST BE SUBMITTED TO THE STORM WATER OFFICE ON A YEARLY BASIS. PROJECTS PERMITTED UNDER THE STATE NPDES PERMIT PROGRAM MUST FOLLOW ITS REQUIREMENTS. USE OF THAT INSPECTION FORM IS PERMITTED INSTEAD OF CITY SELF INSPECTION FORM. SEE ALSO "NOTES & CHARTS" SHEET FOR ADDITIONAL NOTES.

**LAND DISTURBING ACTIVITY NOTES:**

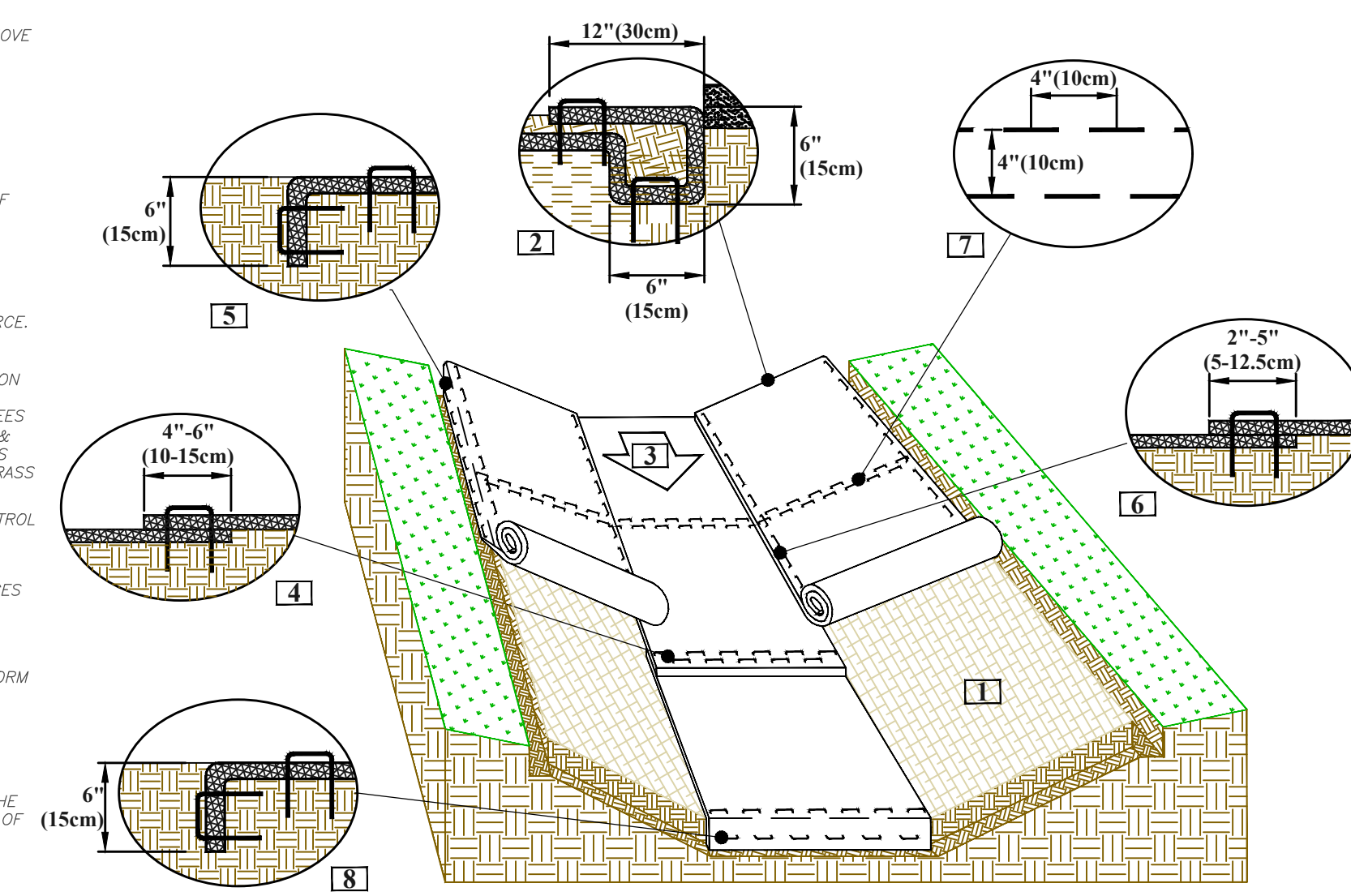
VEGETATION: TOP SOIL WILL BE SALVAGED, STOCK PILED & SPREAD ON AREAS TO BE VEGETATED. TREES OUTSIDE OF THE CLEARING LINE WILL BE PROTECTED FROM DAMAGE BY APPROPRIATE MARKINGS. SUPPLEMENTAL VEGETATION WILL BE ESTABLISHED.

EROSION CONTROL PROGRAM: CLEARING WILL BE KEPT TO A MINIMUM. VEGETATION & MULCH WILL BE APPLIED TO APPLICABLE AREAS IMMEDIATELY AFTER GRADING IS COMPLETED. LAND DISTURBING WILL BE EMPLOYED TO PREVENT EROSION IN AREAS OF CONCENTRATED WATER FLOWS. EROSION AT THE EXITS OF ALL STORM WATER STRUCTURES WILL BE PREVENTED BY THE INSTALLATION OF STORM DRAIN OUTLET PROTECTION DEVICES.

SEDIMENT CONTROL PROGRAM: SEDIMENT CONTROL WILL BE ACCOMPLISHED BY THE INSTALLATION OF SEDIMENT BASINS, SEDIMENT FENCES & ADDITIONAL MEASURES AS REQUIRED. DIVERSIONS & Dikes WILL BE INSTALLED TO DIVERT SEDIMENT LAKEN RUNOFF INTO THE SEDIMENT BASINS & TO PROTECT CUT AND FILL SLOPES FROM EROSION. A TEMPORARY CONSTRUCTION EXIT WILL BE EMPLOYED TO PREVENT THE TRANSPORT OF SEDIMENT FROM SITE BY VEHICULAR TRAFFIC.

STANDARDS & SPECIFICATIONS: ALL DESIGNS WILL CONFORM TO AND ALL WORK WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS & SPECIFICATIONS OF THE PUBLICATION ENTITLED "THE TENNESSEE EROSION & SEDIMENT CONTROL HANDBOOK" & THE BEST MANAGEMENT PRACTICES MANUAL OF THE STORM WATER MANAGEMENT DEPARTMENT OF PUBLIC WORKS FOR THE CITY OF CHATTANOOGA.  
 MAINTENANCE PROGRAM: SEDIMENT & EROSION CONTROL MEASURES WILL BE INSPECTED DAILY. ANY DAMAGES OBSERVED WILL BE REPAIRED BY THE END OF THAT DAY. CLEAN OUT OF SEDIMENT CONTROL STRUCTURES WILL BE ACCOMPLISHED IN ACCORDANCE WITH THE SPECIFICATIONS & SEDIMENT DISPOSAL ACCOMPLISHED BY SPREADING ON THE SITE. SEDIMENT BASINS & BARRIERS WILL REMAIN IN PLACE UNTIL SEDIMENT CONTRIBUTING AREAS ARE STABILIZED. SEDIMENT BASINS, THE SEDIMENT FENCES, & THE BARRIERS WILL THEN BE REMOVED & THE AREAS OCCUPIED BY THESE STRUCTURES VEGETATED. GUIDELINES FOR THE MAINTENANCE OF ESTABLISHED VEGETATION WILL BE PROVIDED TO THE OWNER WHEN ALL DISTURBED AREAS ARE STABILIZED.  
 CONCRETE TRUCKS: THE CONTRACTOR SHALL PROVIDE A BERMED AREA FOR CONCRETE TRUCKS TO "WASH-DOWN". CONTRACTOR TO PERIODICALLY REMOVE CONCRETE WASTE & BY-PRODUCTS AND DISPOSE OF PROPERLY.

**IF IMPAIRED OR HIGH QUALITY ONLY SITE EROSION CONTROLS SHALL BE CHECKED AND, IF NECESSARY, REPAIRED WEEKLY & WITHIN 24 HOURS OF EACH RAINFALL GREATER THAN 1/2". IN THE EVENT OF CONTINUOUS RAINFALL, EROSION CONTROLS SHALL BE CHECKED DAILY. IN ADDITION TO REGULAR TWICE WEEKLY, INSPECTIONS.**



**CRITICAL POINTS**  
 A. Overlaps and Seams  
 B. Projected Water Line  
 C. Channel Bottom/Side Slope Vertices

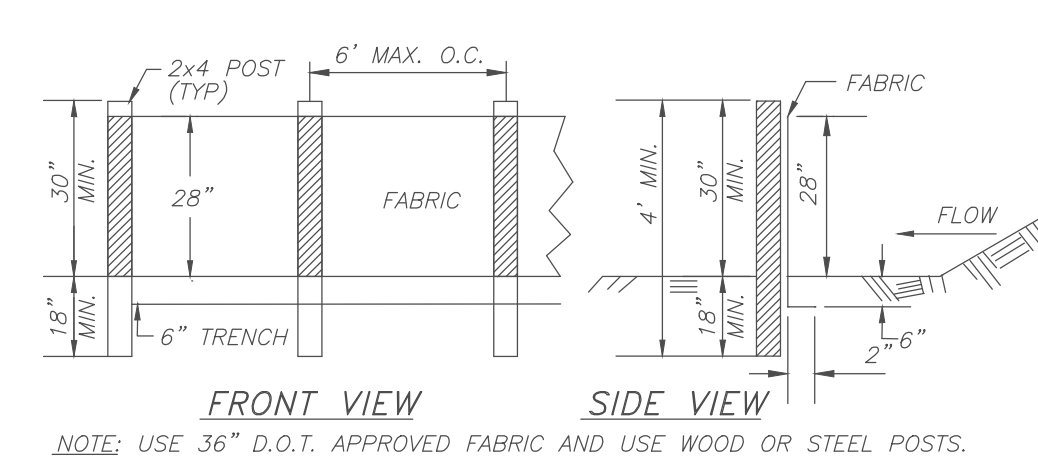
**NOTES:**  
 \*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.  
 \*In loose soil conditions, the use of staple or stake lengths greater than 6"(15cm) may be necessary to properly secure the RECPs.

**Mb C3.0 DETAIL: MATTING AND BLANKETS IN CHANNELS (NTS)**

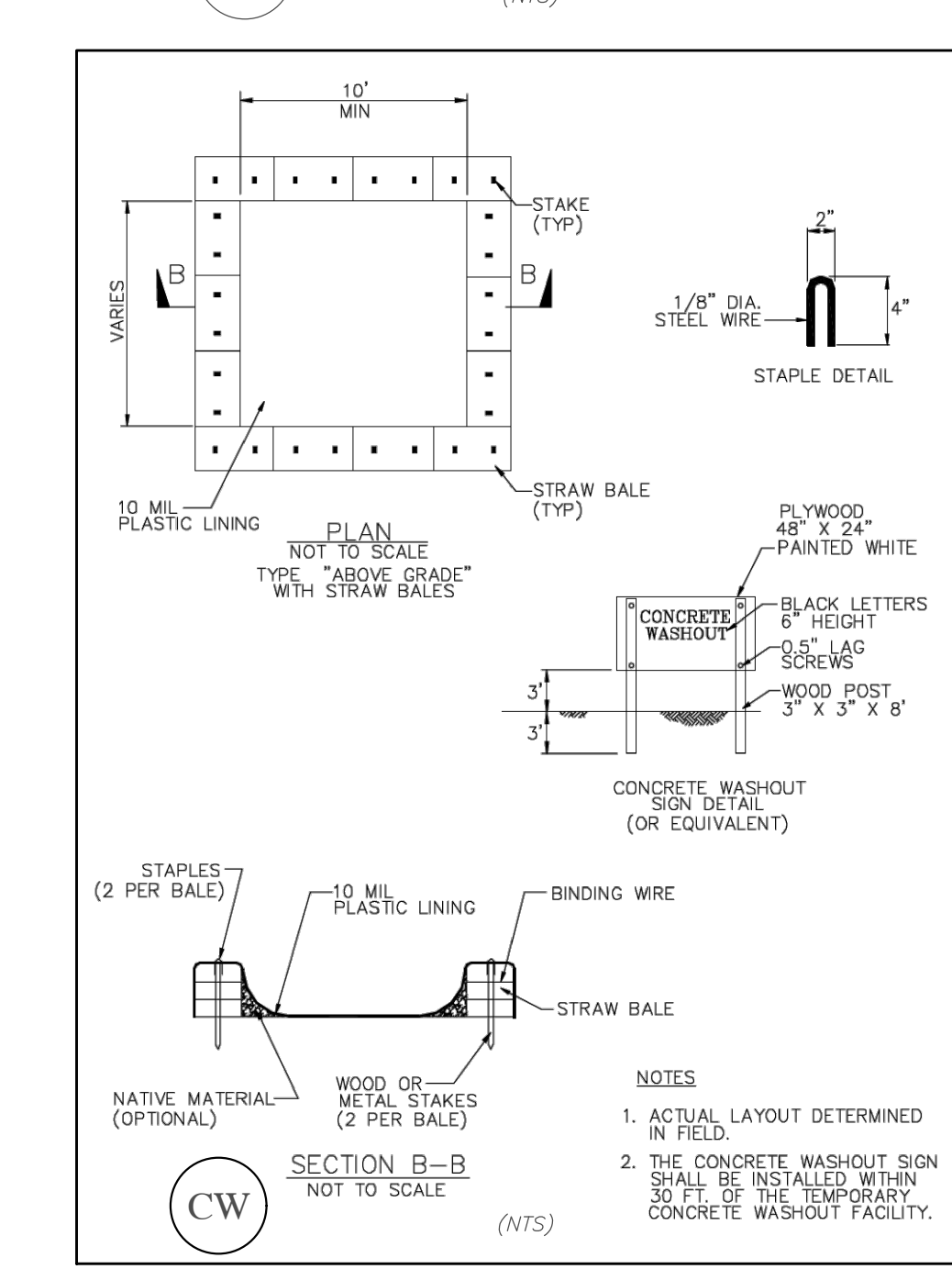
THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH LAND DISTURBANCE ACTIVITIES.

TOPSOIL STOCKPILE AREA SHALL BE COVERED WITH BLACK PLASTIC.

TYPE A (36")	SILT FENCE TYPE USES
1	ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO 6 MONTHS.
2	WHERE THE SLOPE GRADIENT IS STEEPER THAN 3:1.
TYPE B (22")	SILT FENCE TYPE USES
1	ON PROJECTS, SUCH AS RESIDENTIAL HOME SITES OR SMALL COMMERCIAL DEVELOPMENTS, WHERE THE LIFE OF THE PROJECT IS LESS THAN 6 MONTHS.
2	WHERE THE SLOPE GRADIENT IS LESS THAN OR EQUAL TO 3:1.
TYPE C (36") W/ WOVEN WIRE REINFORCEMENT	SILT FENCE TYPE USES
1	WHERE FILL SLOPES EXCEED A VERTICAL HEIGHT OF 20 FEET AND THE SLOPE GRADIENT IS STEEPER THAN 3:1.

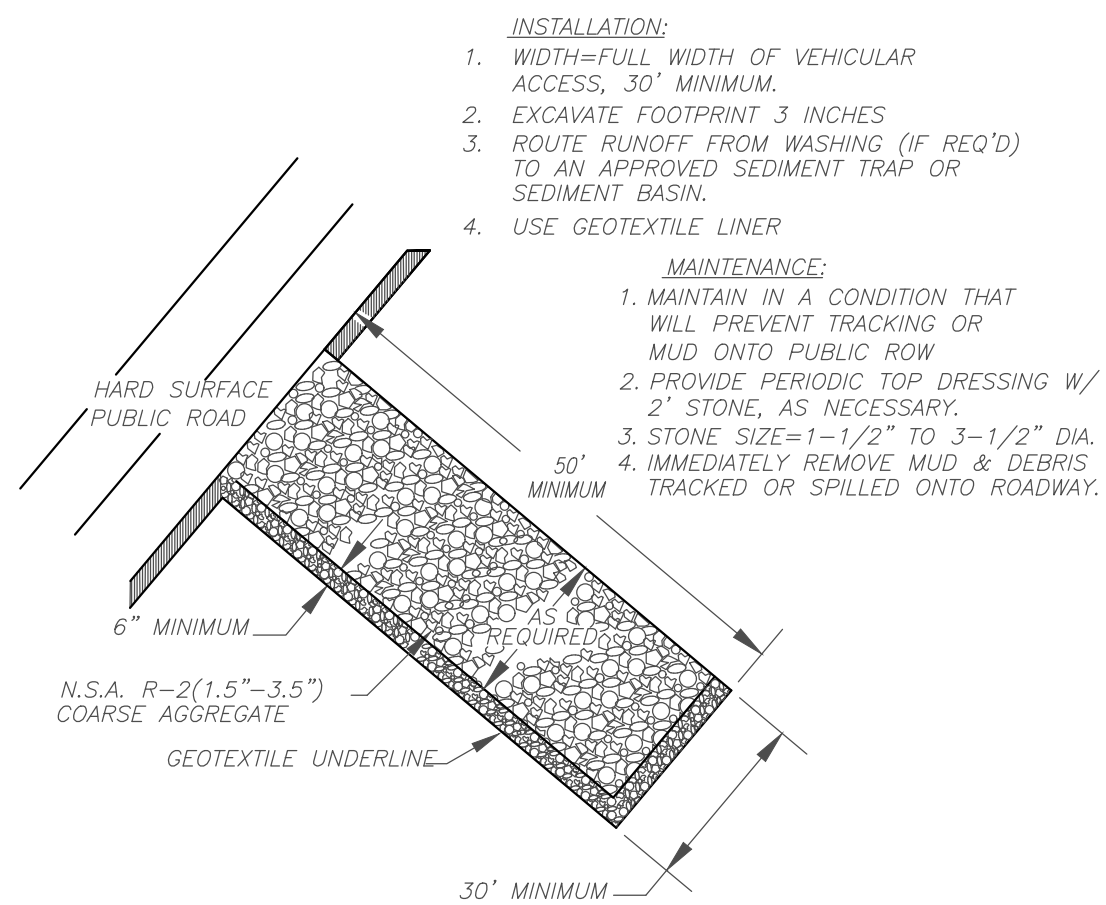


**DETAIL: SILT FENCE - TYPE A (NTS)**

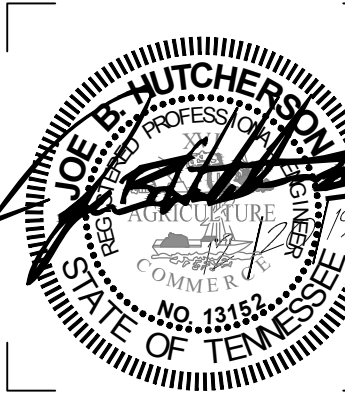


**CHANNEL INSTALLATION DETAIL**

1. Prepare soil before installing rolled erosion control products (RECPs), including any necessary application of lime, fertilizer, and seed.
2. Begin at the top of the channel by anchoring the RECPs in a 6"(15cm) deep x 6"(15cm) wide trench with approximately 12"(30cm) of RECPs extended beyond the up-slope portion of the trench. Use ShoreMax mat at the channel/culvert outlet as supplemental scour protection as needed. Anchor the RECPs with a row of staples/stakes approximately 12"(30cm) apart in the bottom of the trench. Backfill and compact the trench after staping. Apply seed to the compacted soil and fold the remaining 12"(30cm) portion of RECPs back over the seed and compacted soil. Secure RECPs over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECPs.
3. Roll center RECPs in direction of water flow in bottom of channel. RECPs will unroll with appropriate side against the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes at appropriate locations as shown in the staple pattern guide.
4. Place consecutive RECPs end-over-end (Shingle style) with a 4" overlap. Use a double row of staples staggered 4" apart and 4" on center to secure RECPs.
5. Full length edge of RECPs at top of side slopes must be anchored with a row of staples/stakes approximately 12"(30cm) apart in a 6"(15cm) deep x 6"(15cm) wide trench. Backfill and compact the trench after staping.
6. Adjacent RECPs must be overlapped approximately 2'-5" (5-12.5cm) (Depending on RECPs type) and stapled.
7. In high flow channel applications a staple check slot is recommended at 30 to 40 foot (9-12m) intervals. Use a double row of staples staggered 4"(10cm) apart and 4"(10cm) on center over entire width of the channel.
8. The terminal end of the RECPs must be anchored with a row of staples/stakes approximately 12" (30cm) apart in a 6"(15cm) deep x 6"(15cm) wide trench. Backfill and compact the trench after staping.



**DETAIL: STONE PAD CONSTRUCTION EXIT (NTS)**



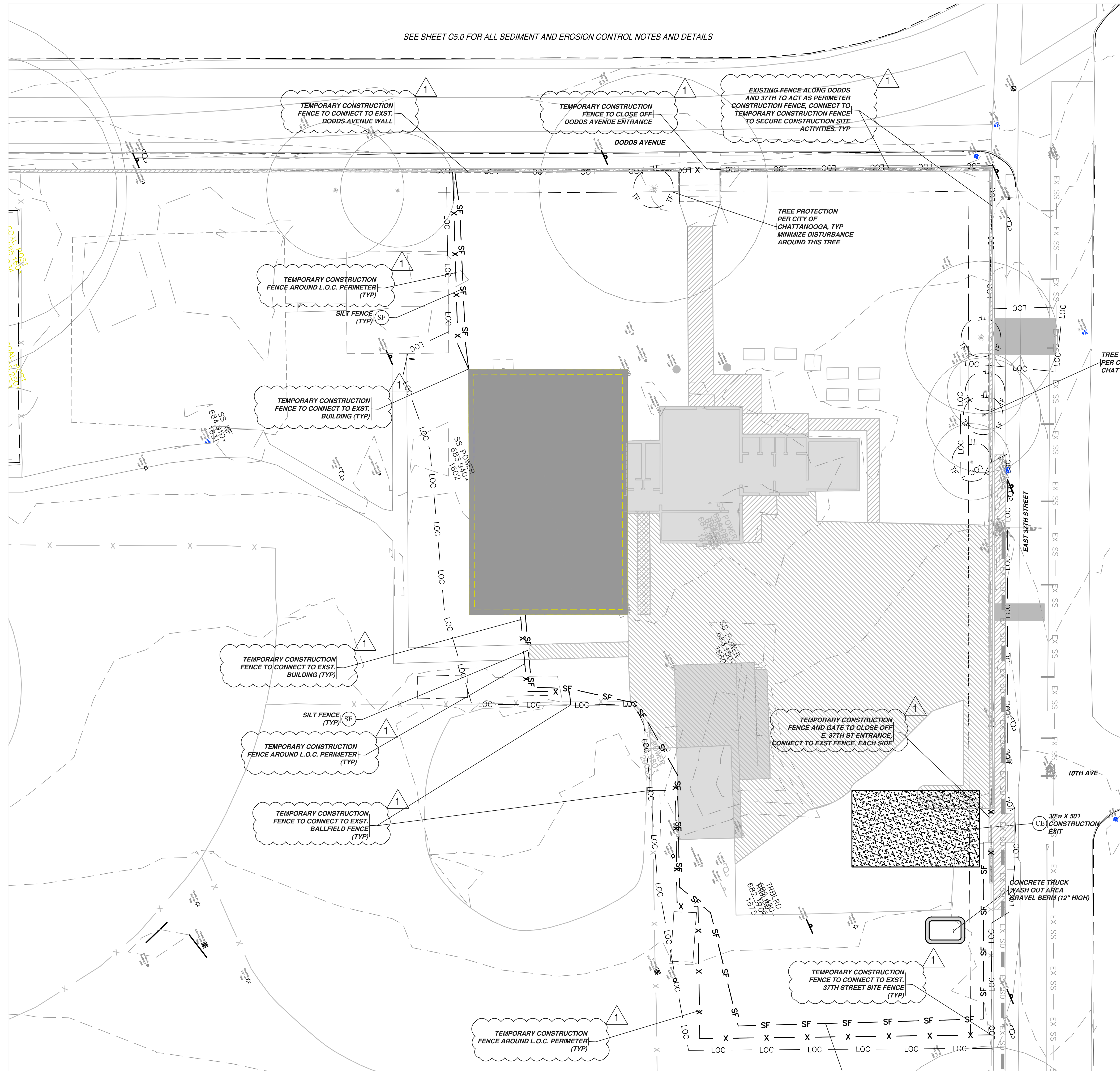
ISSUE DATES  
 INITIAL ISSUE 12/20/19

JOB NO. 18-072 | D'WN SDB | CK'D MH

**C5.0**  
 Sediment & Erosion  
 Control Notes & Details



SEE SHEET C5.0 FOR ALL SEDIMENT AND EROSION CONTROL NOTES AND DETAILS



**LEGEND**

Ex. Curb	EX C
Ex. Centerline	EX CL
Ex. Fence	EX F
Ex. Water Line	EX W
Ex. Fire Line	EX FL
Ex. Irrigation Line	EX IRR
Ex. Storm Drainage Line	EX SD
Ex. Sanitary Sewer Line	EX SS
Ex. Sanitary Sewer Force Main	EX FIM
Ex. Swale Centerline	EX SCL
Ex. Ditch Centerline	EX DCL
Ex. Gas Line	EX G
Ex. Overhead Elect. or Utility Line	EX OHE
Ex. Underground Electrical	EX UGE
Ex. Underground Fiber Optics	EX UGFO
Ex. Underground Telephone	EX UGT

**PROPERTY LINE**

BUILDING LINE	BL
EASEMENT LINE	EL
BUILDING SETBACK LINE	BSL
LANDSCAPE BUFFER LINE	LBL
LOT LINE	LL
ROW LINE	RL
CURB	CR
CENTERLINE	CL
PROP. FENCE LINE	PF
PROP. LIMITS OF CONSTRUCTION	LOC
PROPOSED TREE PROTECTION	TF
PROPOSED SWALE CENTERLINE	SWCL
PROPOSED DITCH CENTERLINE	DCL
PROP. WATER LINE	W
PROP. FIRE LINE	FL
PROP. IRRIGATION LINE	IRR
PROP. GAS LINE	G
PROP. STORM DRAINAGE LINE	SD
PROP. SANITARY SEWER LINE	SS
PROP. SANITARY SEWER FORCE MAIN	FIM
PROP. OVERHEAD ELECT. OR UTILITY LINE	OHE
PROP. UNDERGROUND ELECTRICAL	UGE
PROP. UNDERGROUND FIBER OPTICS	UGFO
PROP. UNDERGROUND TELEPHONE	UGT

**ABBREVIATIONS:**  
 SSE - NEW PUBLIC SANITARY SEWER EASEMENT (SEE PLAN FOR WIDTH).  
 DE - NEW DRAINAGE EASEMENT (SEE PLAN FOR WIDTH).  
 WE - NEW PUBLIC WATER EASEMENT (SEE PLAN FOR WIDTH).  
 L/A BUFFER - NEW LANDSCAPE BUFFER (SEE PLAN FOR WIDTH AND TYPE).  
 FYSB - FRONT YARD SETBACK.  
 SFSB - SIDE YARD SETBACK.  
 RYSB - REAR YARD SETBACK.  
 FFE - FINISHED FLOOR ELEVATION.  
 TW - FINISH GRADE AT TOP OF RETAINING WALL.  
 BG - FINISHED GROUND GRADE AT BOTTOM OF RETAINING WALL (GRASS GRADE).  
 SDOO / SSSO - STORM DRAINAGE / SANITARY SEWER CLEAN-OUT.  
 OS - ROOF DOWNSPOUT CONNECTION.

**SITE INFORMATION:**  
 SITE AREA: 8.8 ACRES  
 SITE IS ZONED: R-2  
 LAND DISTURBANCE AREA: 0.90± ACRES  
 TAX MAP PARCEL #: 188B J 016  
 EXST. BUILDING AREA: 11,341± SF  
 BUILDING AREA: 16,324± SF (44% INCREASE COMPARED TO PRE)  
 BUILDING TYPE: GYMNASIUM

STREET ADDRESS: 3610 DODDS AVENUE  
 FRONT YARD SETBACK: 25 FEET  
 SIDE YARD SETBACK: 10 FEET  
 REAR YARD SETBACK: 25 FEET

SANITARY SEWER AVAILABILITY: EXST. PUBLIC SEWER MAIN LOCATED IN EAST 37TH STREET.  
 POTABLE WATER EXST. PUBLIC WATER MAIN LOCATED IN SUPPLY AVAILABILITY: EAST 37TH STREET.

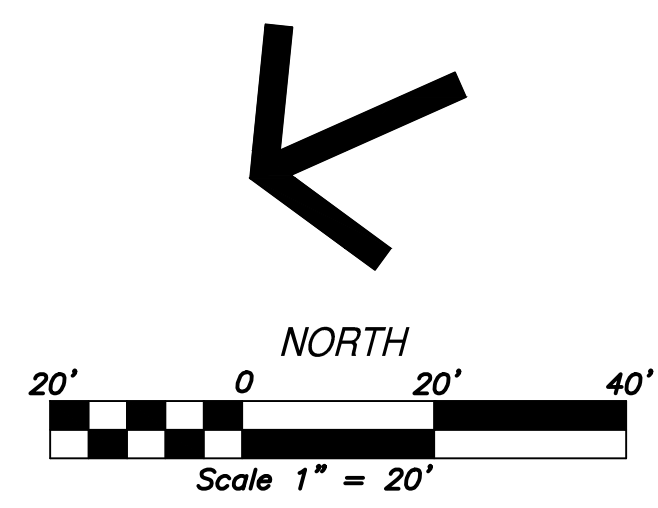
STORM DRAINAGE: STORM DRAINAGE WILL DISCHARGE INTO AN EXISTING CULVERT IN EAST 37TH STREET.

PROPERTY FRONTAGE: 240 LF DODDS AVE = 7 REQUIRED TREES  
 340 LF E 37TH ST = 10 REQUIRED TREES  
 REQUIRED STREET YARD TREES: 17  
 EXISTING STREET YARD TREES: 6  
 PROPOSED STREET YARD TREES: 11

REGULAR PARKING SPACES: 23  
 REGULAR HCAP SPACES: 0  
 VAN ACCESSIBLE HCAP SPACES: 1  
 TOTAL PARKING PROVIDED: 24 SPACES

FLOODZONING PORTIONS OF THE PROPERTY ARE LOCATED IN FLOOD ZONE "X" AS SCALED FROM THE FIRM MAP COMMUNITY-PANEL NUMBER 47065C04570, MAP REVISED 2/3/2016.  
 PROPERTY OWNER: CITY OF CHATTANOOGA

NOTE:  
 TEMPORARY CONSTRUCTION FENCING TO BE 6' TALL CHAIN-LINK PANEL FENCING WITH WIND-SCREEN, OR APPROVED EQUAL.



# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402

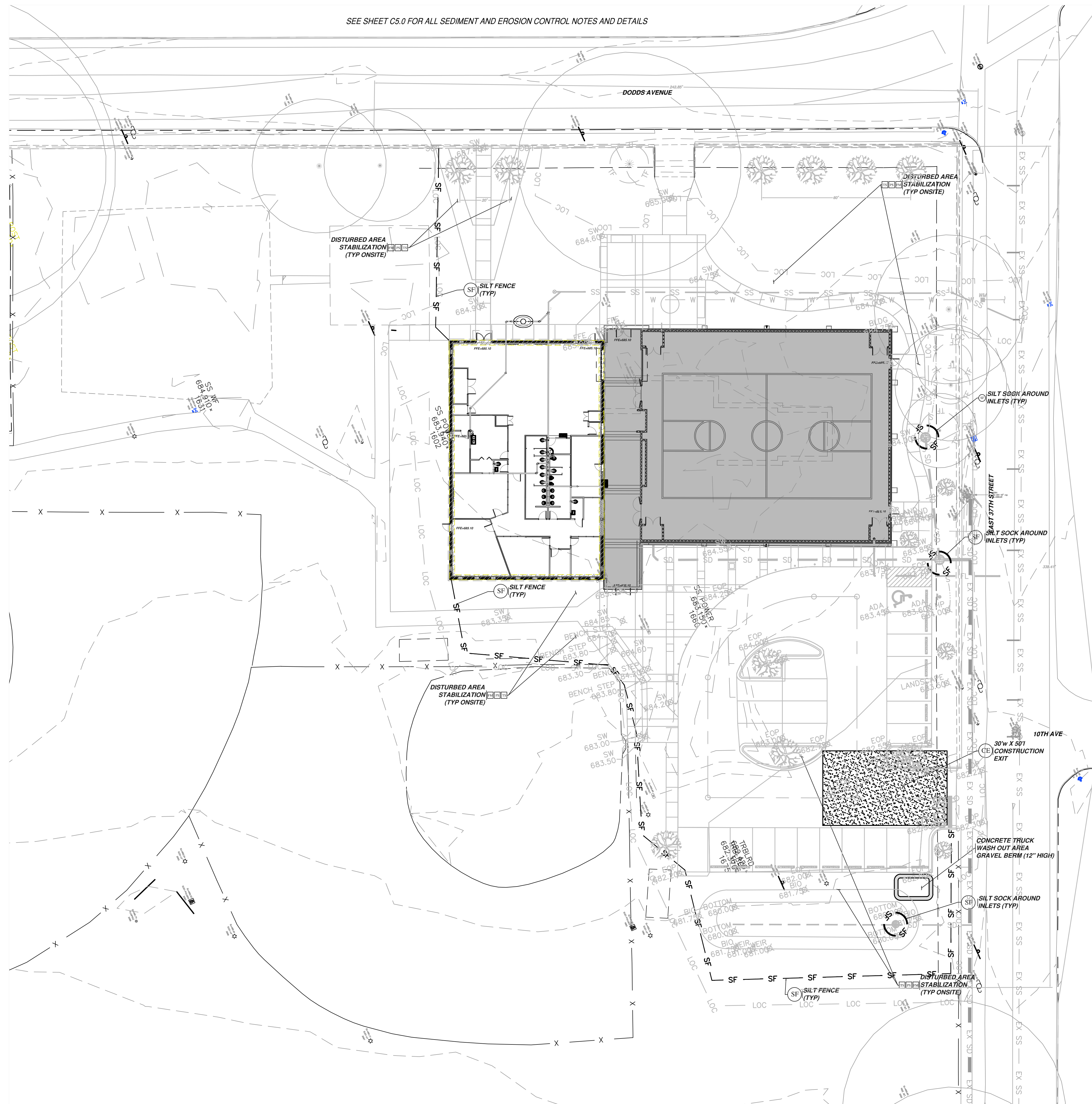


ISSUE DATES  
 INITIAL ISSUE 12/20/19  
 ADDENDUM 8 01/21/20

JOB NO. 18-072 | D'WN SDB | CK'D MH



SEE SHEET C5.0 FOR ALL SEDIMENT AND EROSION CONTROL NOTES AND DETAILS



**LEGEND**

Ex. Curb	---
Ex. Centerline	---
Ex. Fence	---
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Ex. Sanitary Sewer Force Main	---
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Ex. Underground Telephone	---
<b>PROPERTY LINE</b>	---
BUILDING LINE	---
EASEMENT LINE	---
BUILDING SETBACK LINE	---
LANDSCAPE BUFFER LINE	---
LOT LINE	---
ROW LINE	---
CURB	---
CENTERLINE	---
PROP. FENCE LINE	---
PROP. LIMITS OF CONSTRUCTION	---
PROP. TREE PROTECTION	---
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PROP. FIRE LINE	---
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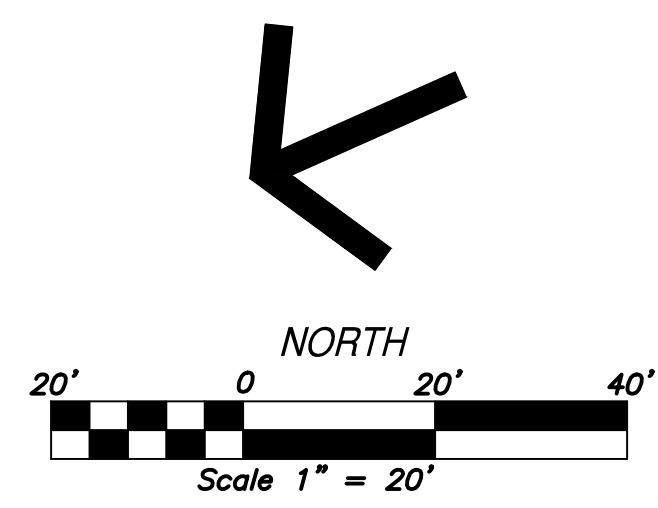
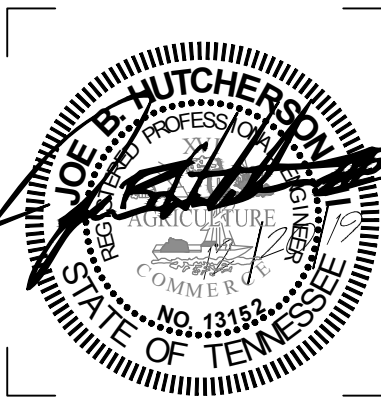
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 PROPERTY OWNER: CITY OF CHATTANOOGA

**ARTECH**  
 1410 COWART STREET  
 CHATTANOOGA, TN 37408  
 423.265.4313  
 WWW.ARTECH.PRO

# East Lake YFD Center Improvements

3610 Dodds Avenue, Chattanooga, TN 37402

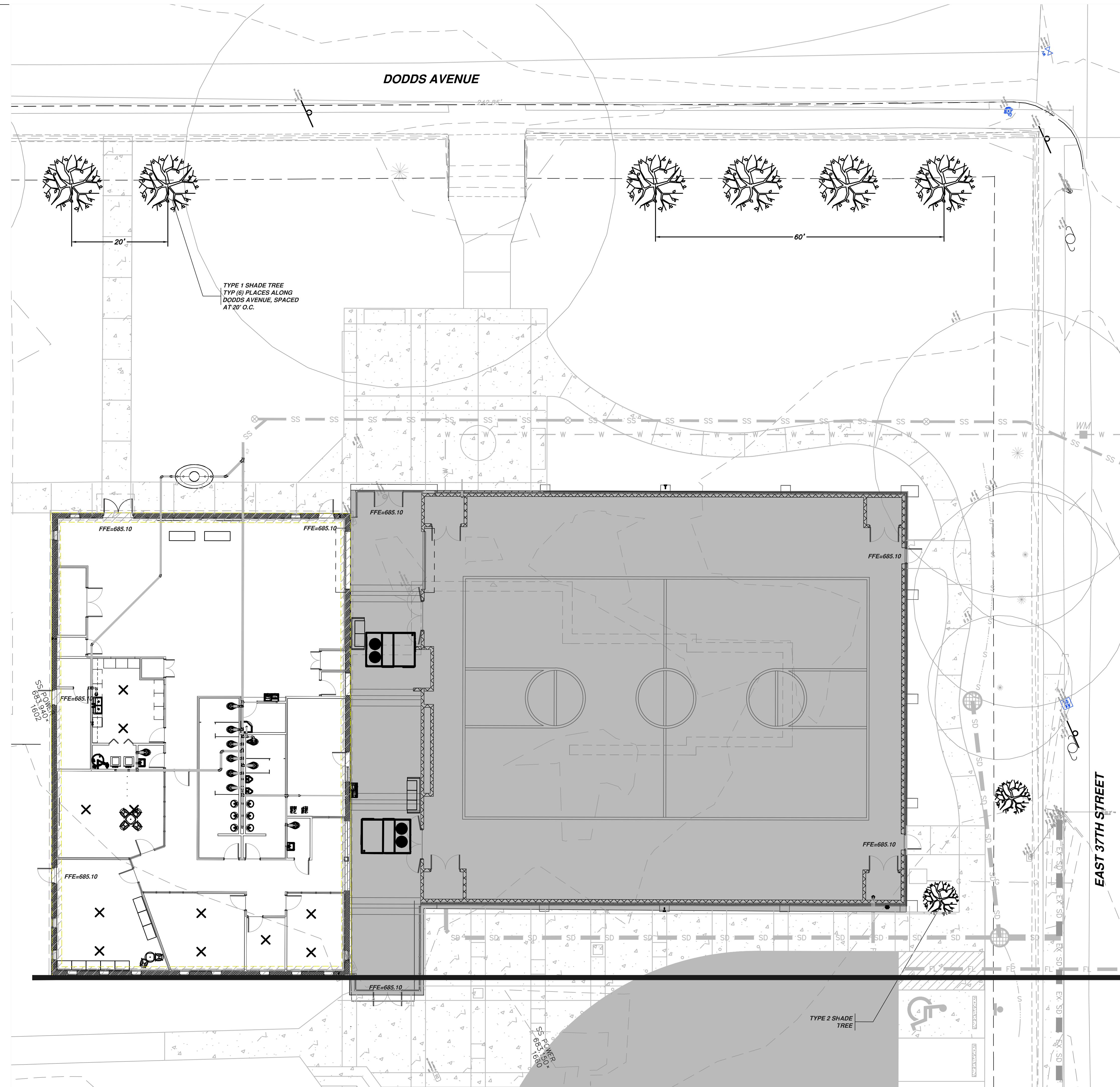


ISSUE DATES  
 INITIAL ISSUE 12/20/19

JOB NO. 18-072 | D'WN SDB | CK'D MH

**C5.2**  
 Sediment & Erosion Control Plan, Phase II





**PLANT LIST**

TREES SYMBOL	QTY	BOTANICAL NAME	COMMON NAME	CALIPER	SPACING	REMARKS
	10	ACER RUBRUM	RED MAPLE	3"	AS SHOWN (20' O.C.)	'OCTOBER GLORY'
	4	PRUNUS X YEDOENSIS	YOSHINO CHERRY	3"	AS SHOWN	

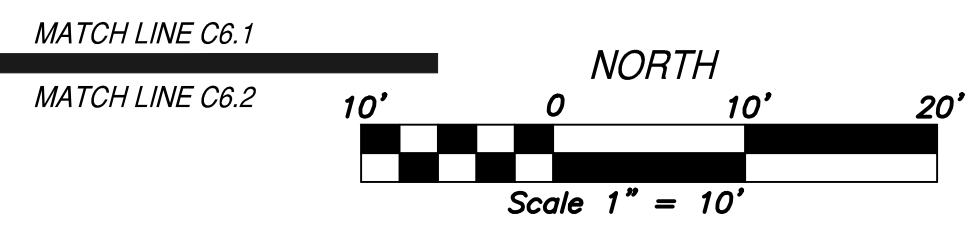
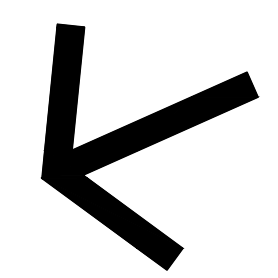
**STREETYARD CALCULATIONS:**

REQ'D. STREETYARD TREES: 1 TREE PER 35 FEET R.O.W. = 17 TREES  
 EX. STREETYARD TREES: 6 TREES  
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**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402



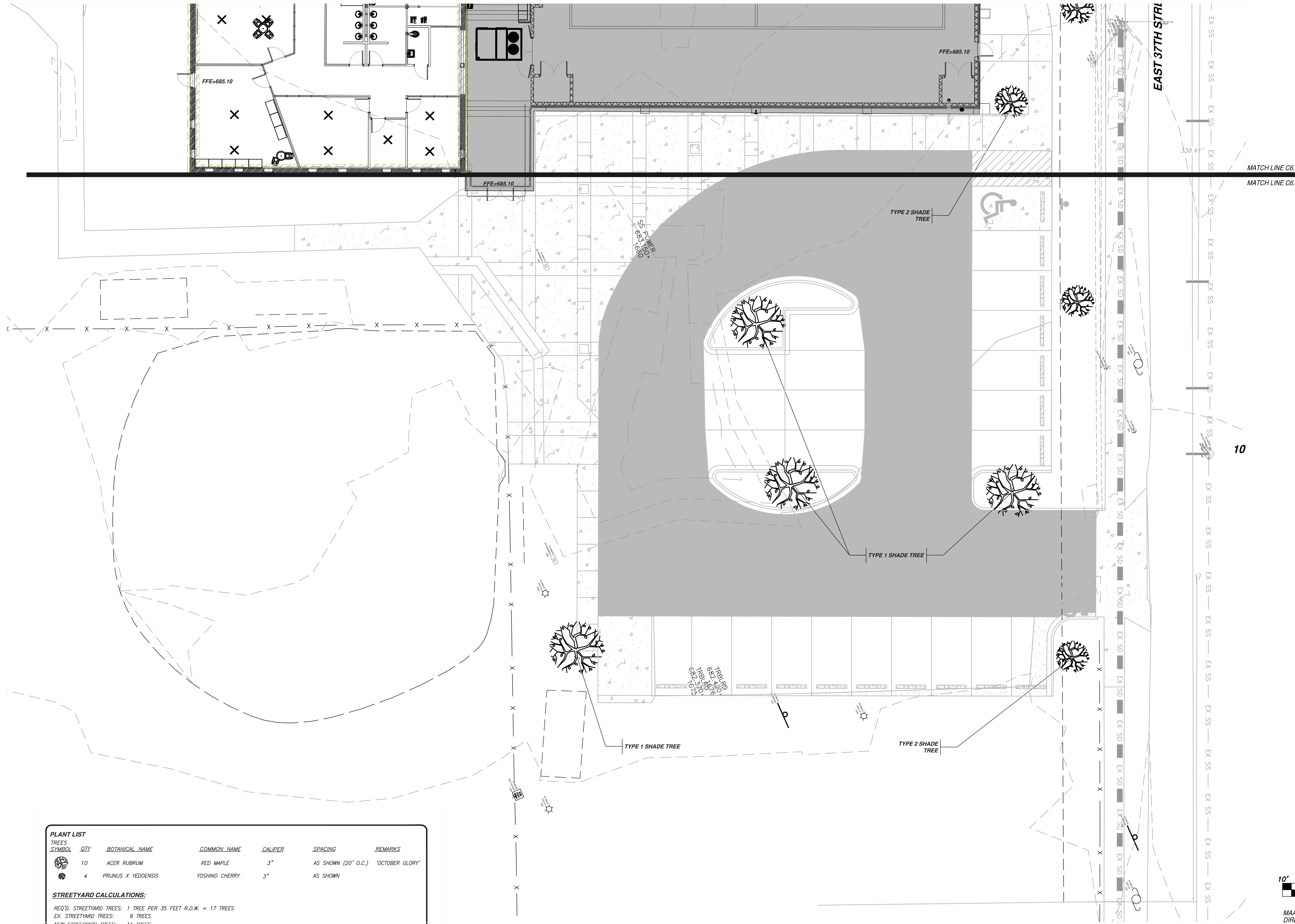
ISSUE DATES  
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MAA CIVIL CONTACT: STEPHEN BRADY, P.E.  
 DIRECT LINE: 423-664-1480

JOB NO. 18-072 | D'WN SDB | CK'D MH

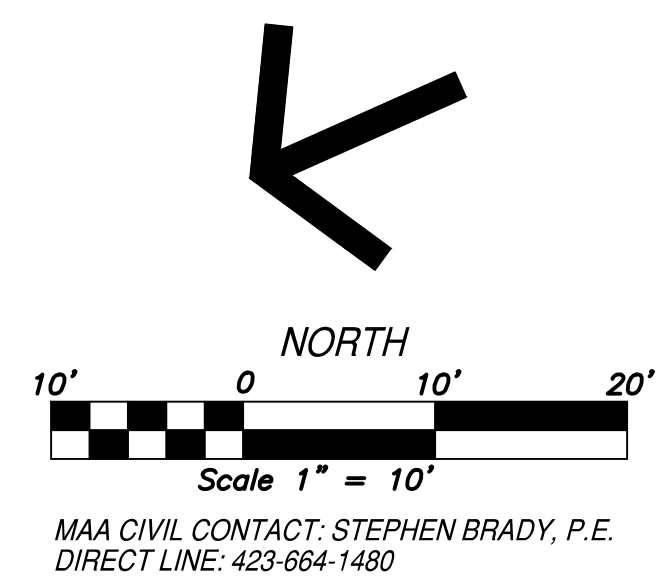




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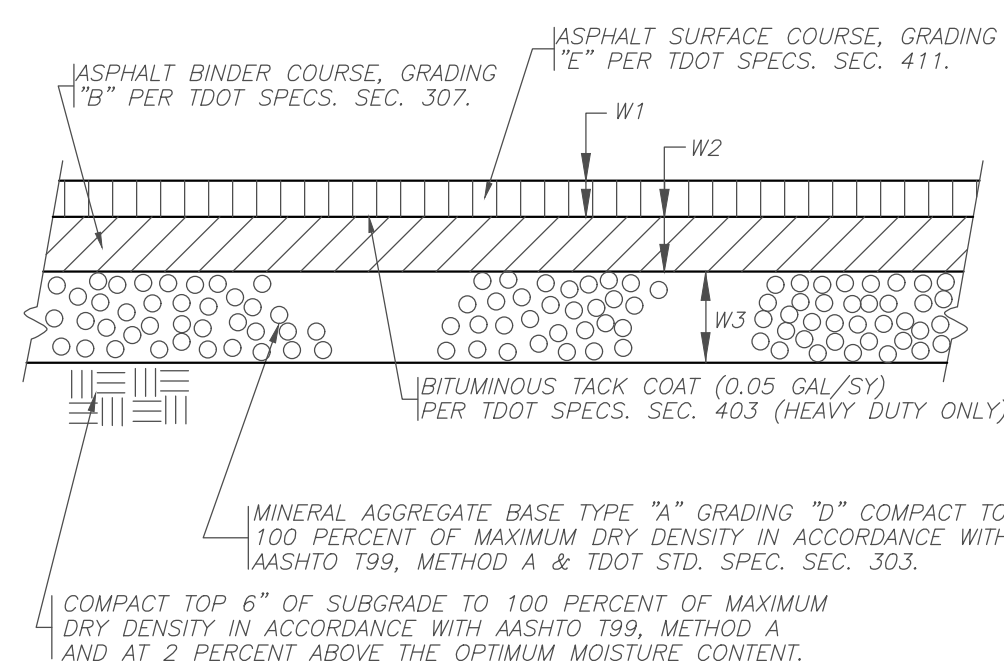


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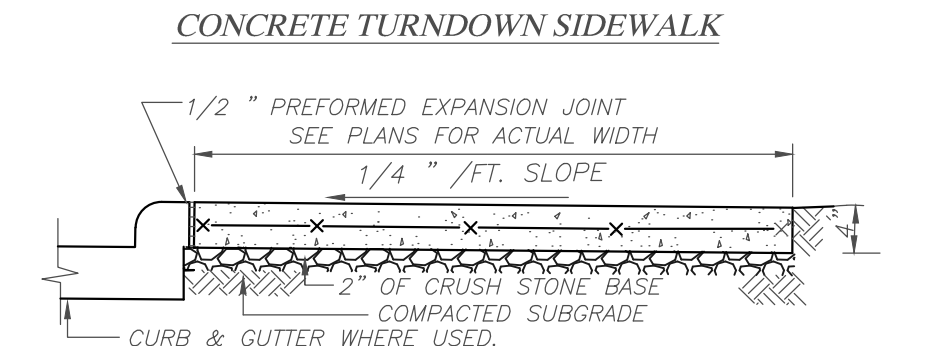
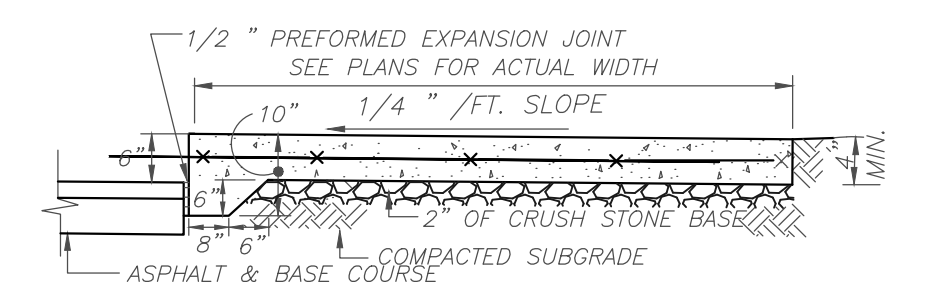
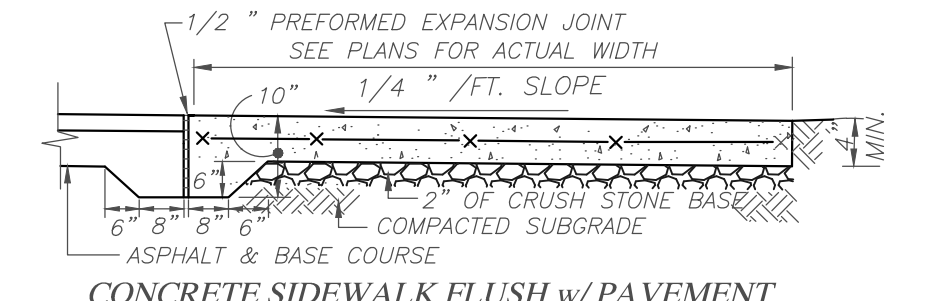
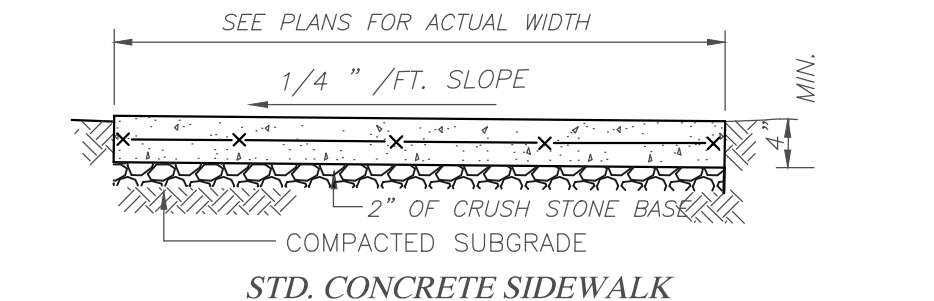
JOB NO. 18-072 | D'WN SDB | CK'D MH



	STANDARD DUTY THICKNESS	HEAVY DUTY THICKNESS
ASPH. SURFACE COURSE THICKNESS "W1"	2"	1.5"
ASPH. BINDER COURSE THICKNESS "W2"	2"	2"
AGGREGATE BASE THICKNESS "W3"	6"	6"



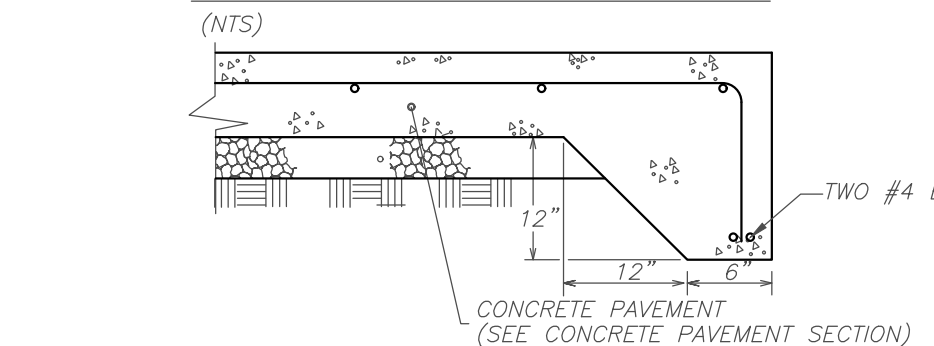
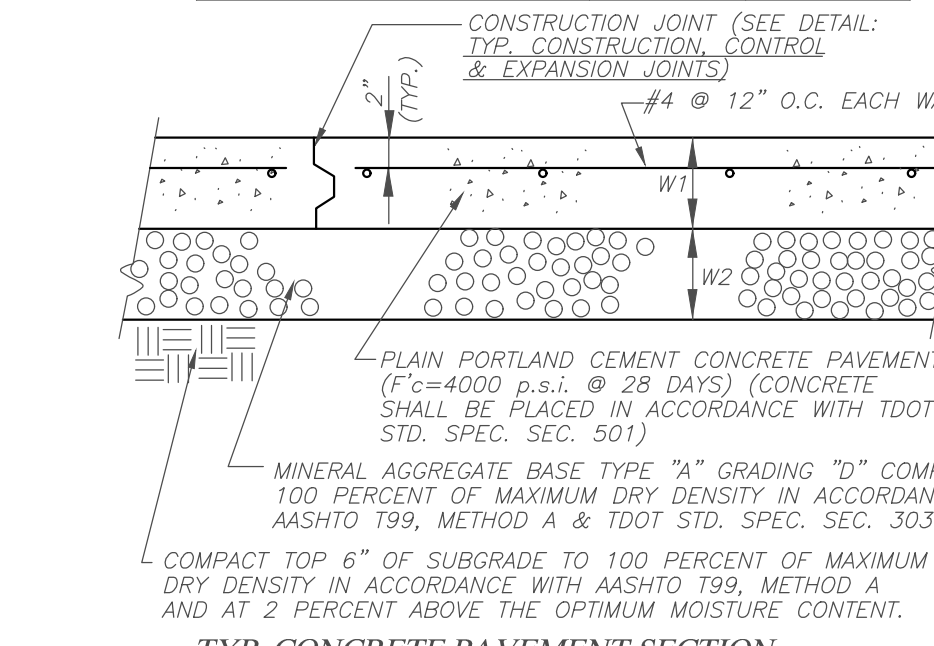
**1** C7.0 **DETAIL: ASPHALT PAVEMENT SECTIONS** (NTS)



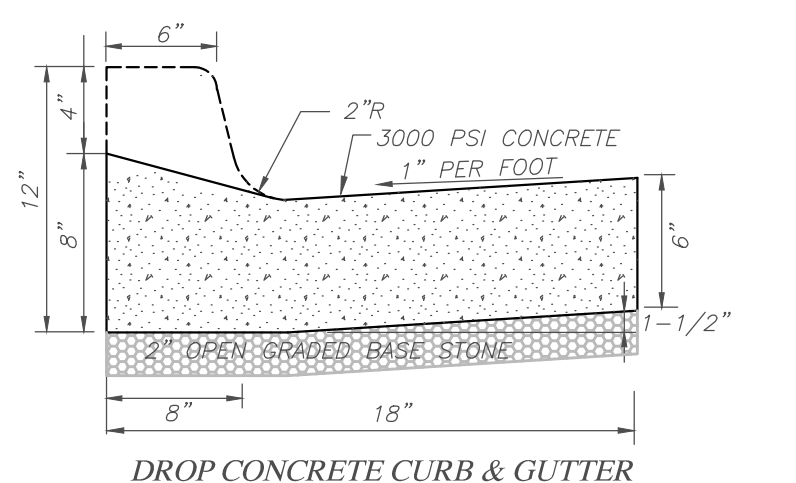
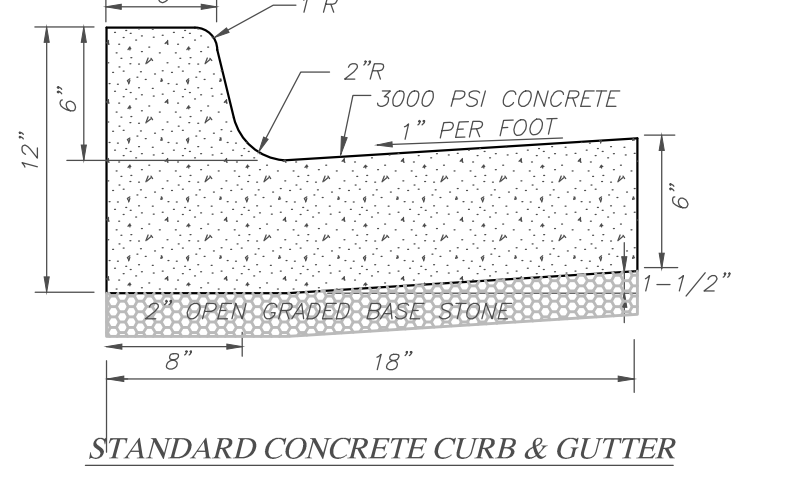
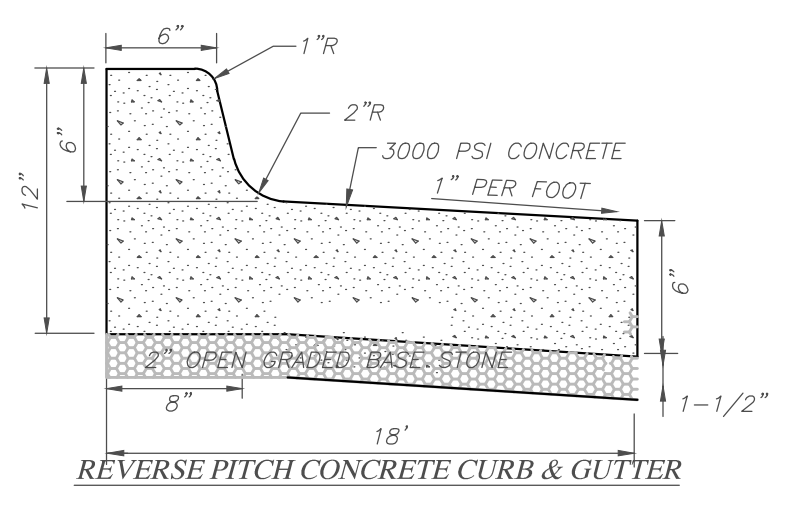
- NOTES:**
- 4,000 PSI CONCRETE @ 28 DAYS WITH REINFORCEMENT - 6x6-W1.4 x W1.4 W.W.M.
  - SEE ALSO DETAIL: TYP. CONSTRUCTION, CONTROL & EXPANSION JOINTS
  - PROVIDE 1" DEEP TRANSVERSE GROOVES AT 5'-0" INTERVALS, OR AS SHOWN ON PLAN.
  - PROVIDE 1/2" WIDE EXPANSION JOINT AT 20' INTERVALS AND AT ALL CURBS, RIGID STRUCTURES AND RIGID PAVEMENT.
  - TOOL ALL EXPOSED EDGES AND JOINTS TO 1/4" RADIUS.
  - BROOM FINISH ACROSS DIRECTION OF TRAVEL.
  - MAXIMUM SLOPE: 2%.
  - FIBERMESH ALTERNATIVE: MIX AND RATE OF APPLICATION OF "FIBERMESH" SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**2** C7.0 **DETAIL: CONCRETE SIDEWALK** (NTS)

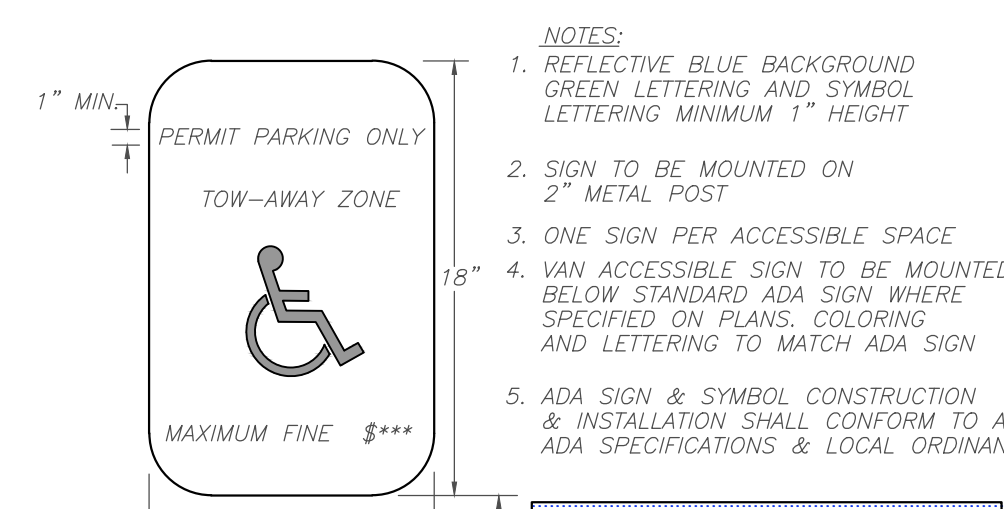
	STD. DUTY THICKNESS	HEAVY DUTY THICKNESS
CONC. PAVT. THICKNESS "W1"	5"	6"
AGGR. BASE THICKNESS "W2"	4"	6"



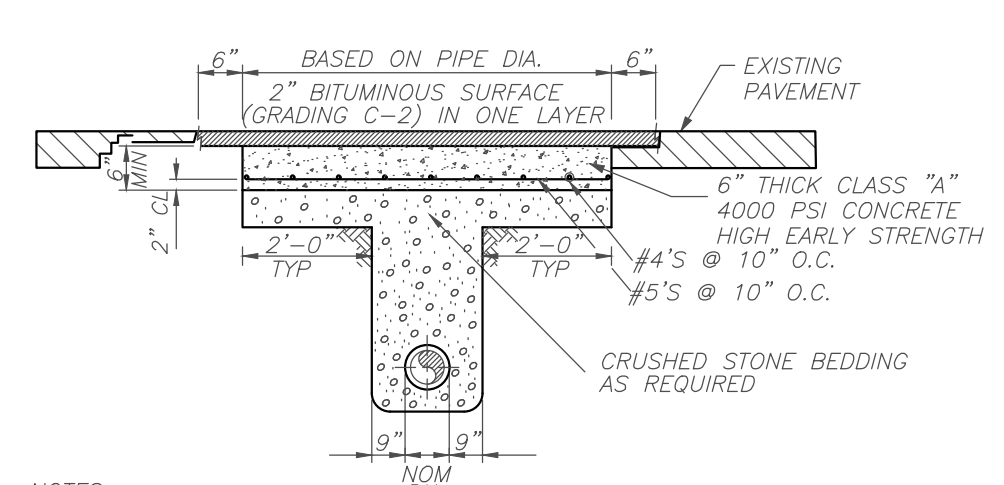
**3** C7.0 **DETAIL: TYP. CONCRETE PAVEMENT w/ TURNDOWN** (NTS)



**4** C7.0 **DETAIL: 18" CONCRETE CURB & GUTTER** (NTS)

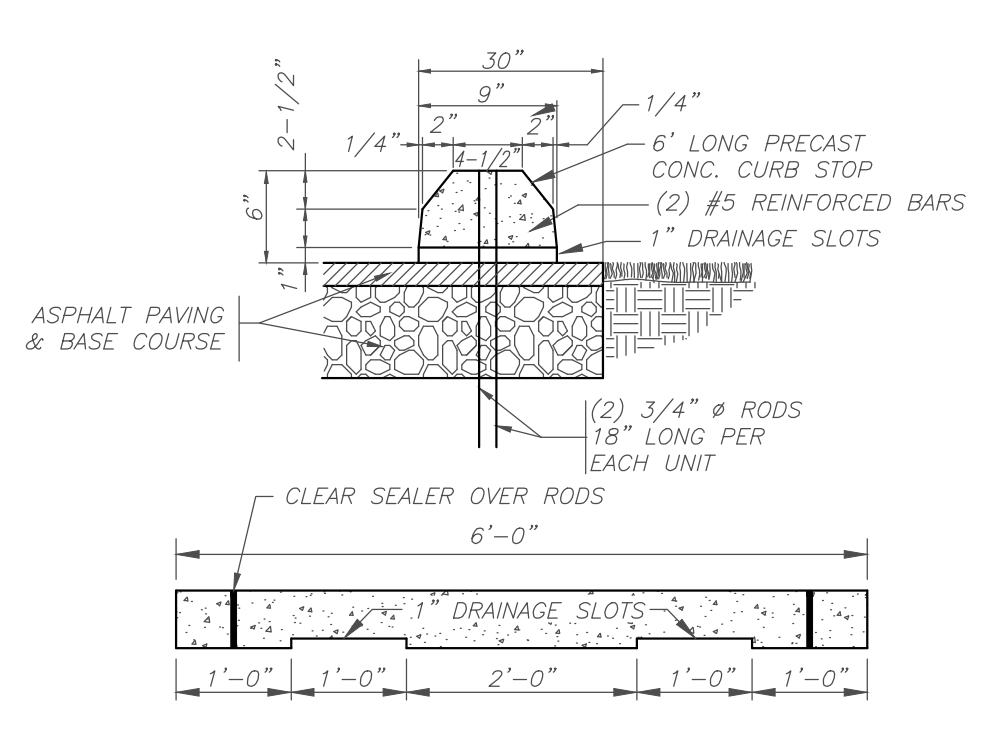


**5** C7.0 **DETAIL: ACCESSIBLE PARKING SIGN & SYMBOL** (NTS)

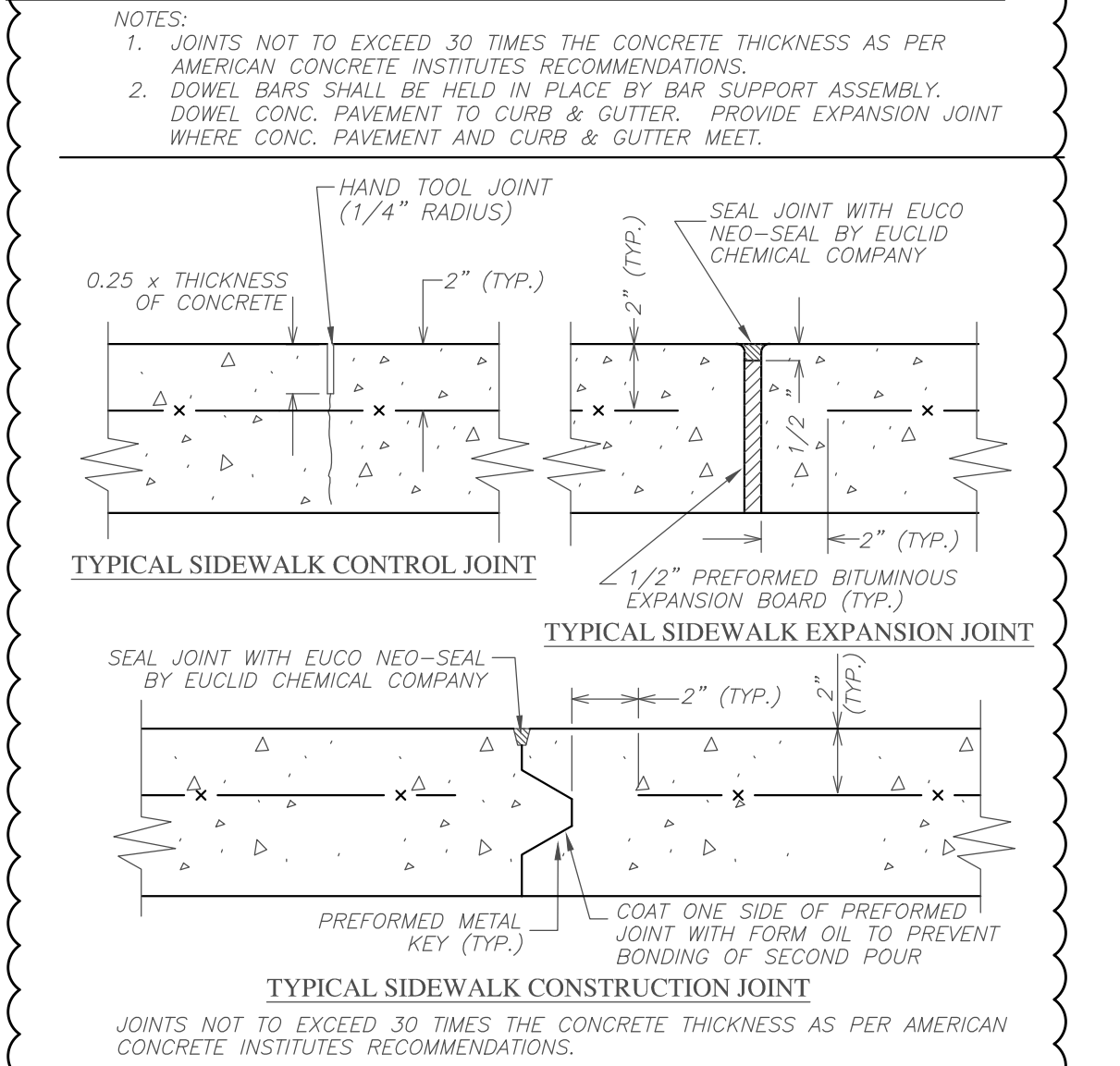
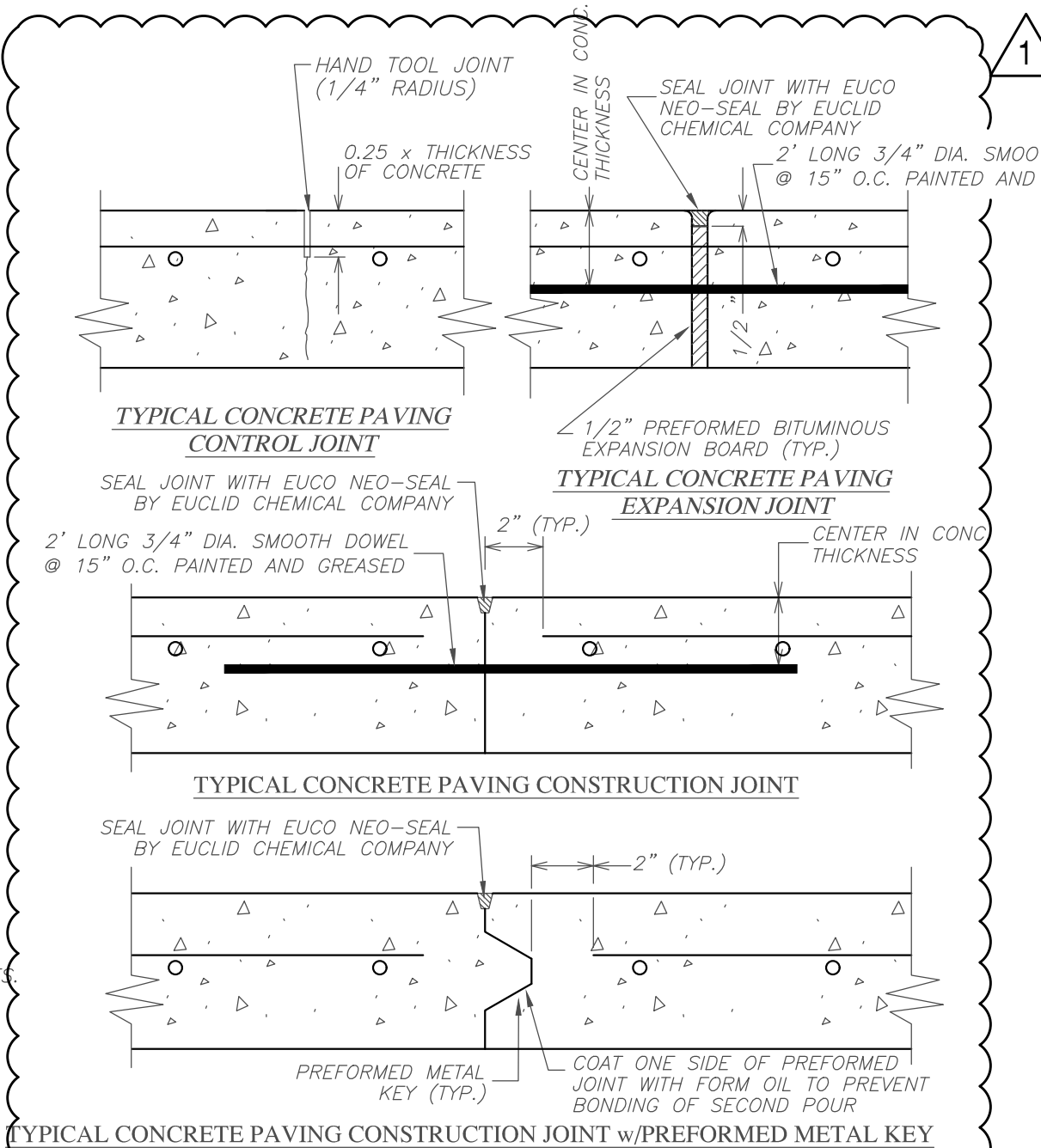


- NOTES:**
- ALL LATERAL STREET CUTS MUST BE COVERED WITH STEEL PLATES OF SUFFICIENT THICKNESS TO SPAN THE CUT WITHOUT NOTICABLE DEFLECTION. PLATES TO REMAIN IN PLACE UNTIL THE CONCRETE BASE HAS GAINED SUFFICIENT STRENGTH TO WITHSTAND TRAFFIC LOADS (24 HR. MINIMUM).
  - ON LONGITUDINAL CUTS 150 FT. IN LENGTH, THE CONCRETE IN THE TRENCH WILL BE BROUGHT FLUSH WITH THE EXISTING PAVEMENT AND THE ENTIRE WIDTH OF ROADWAY RESURFACED WITH A MINIMUM OF 1" OF TYPE "A" ASPHALT TOPPING OR 1 1/2" OF TYPE "E" ASPHALT TOPPING OR SURFACE COURSE.
  - THE CONTRACTOR SHALL REPLACE ALL OTHER DAMAGED PAVEMENT OUTSIDE OF LIMITS SHOWN AT HIS OWN EXPENSE.

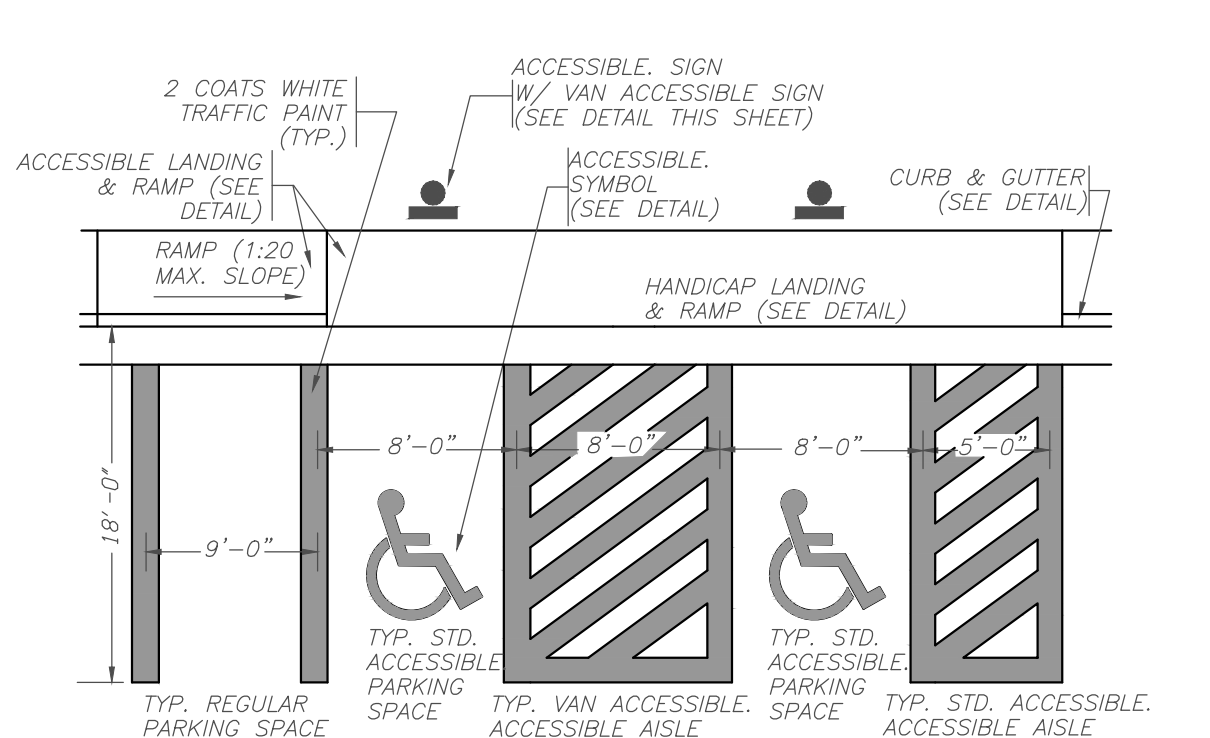
**6** C7.0 **DETAIL: PAVEMENT CUT & REPLACEMENT** (NTS)



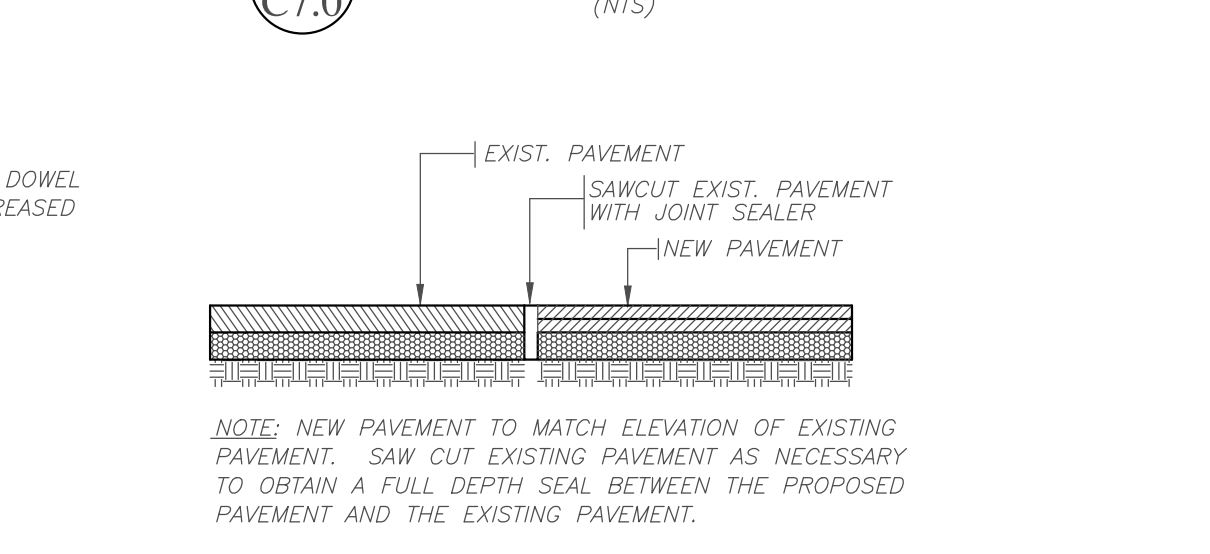
**7** C7.0 **DETAIL: PRE-CAST CONC. CURB STOP DETAIL** (NTS)



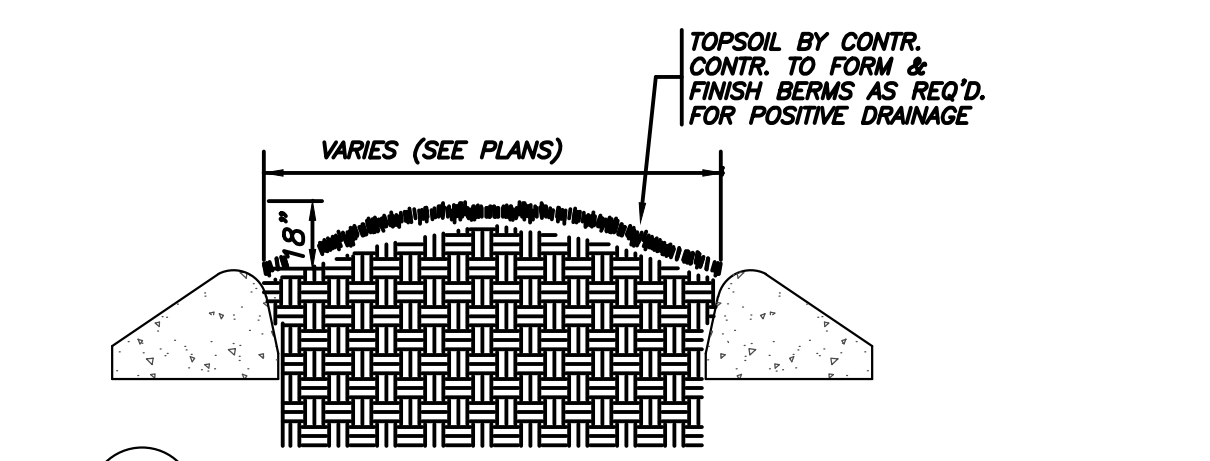
**8** C7.0 **DETAIL: TYP. CONSTRUCTION, CONTROL & EXPANSION JOINTS** (NTS)



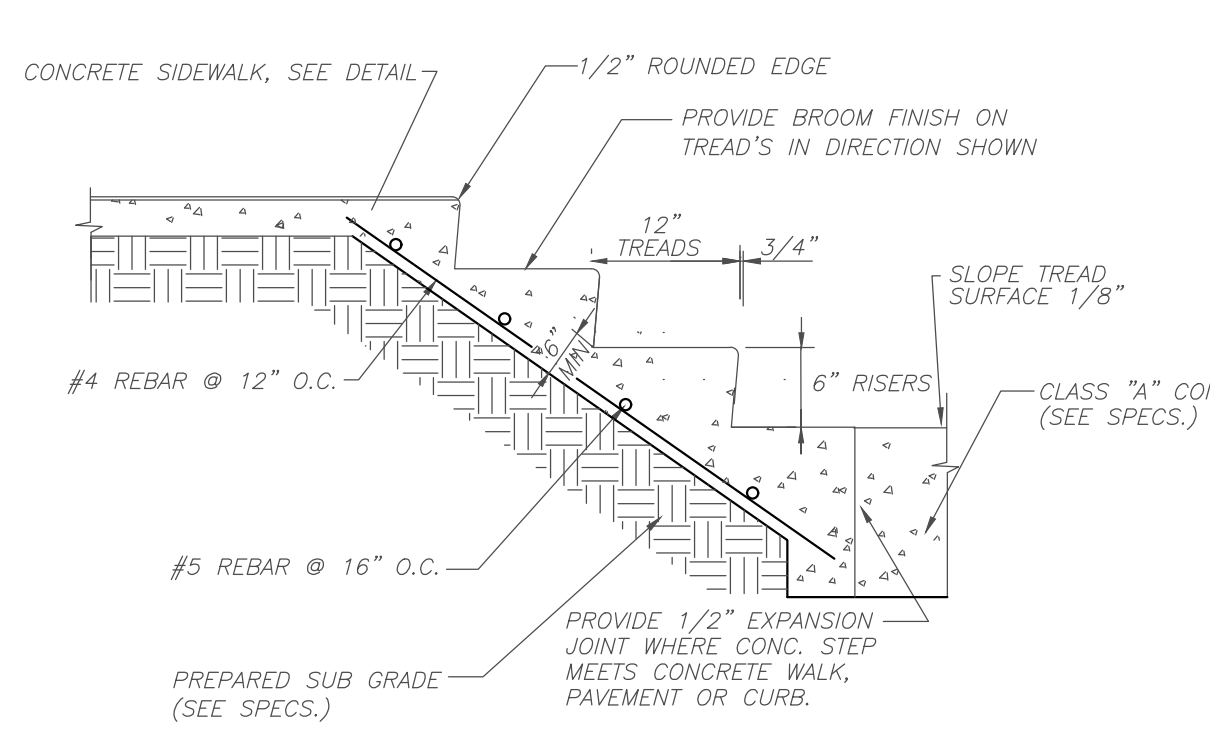
**9** C7.0 **DETAIL: 90° PARKING** (NTS)



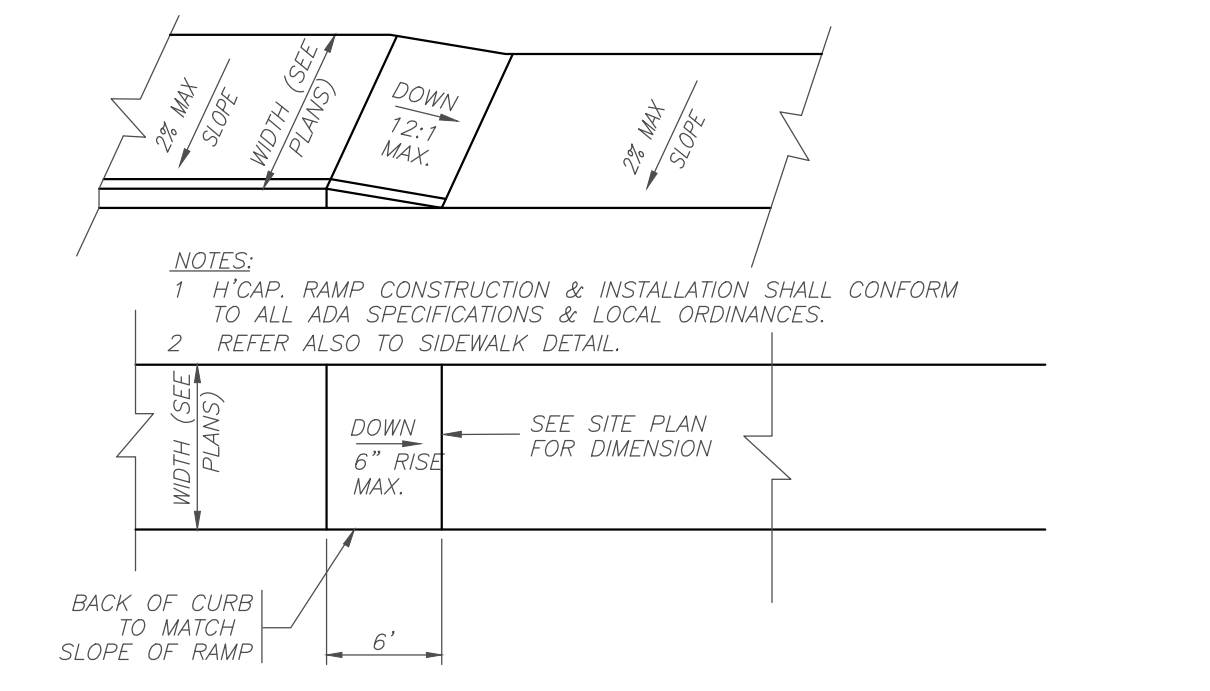
**10** C7.0 **DETAIL: SAWCUT & PAVEMENT TRANSITION** (NTS)



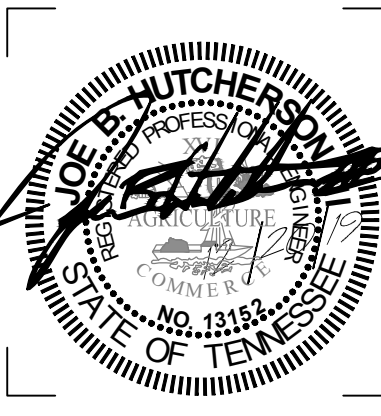
**11** C7.0 **DETAIL: LANDSCAPE ISLAND SECTION** (NTS)



**12** C7.0 **DETAIL: CONCRETE STEPS** (NTS)

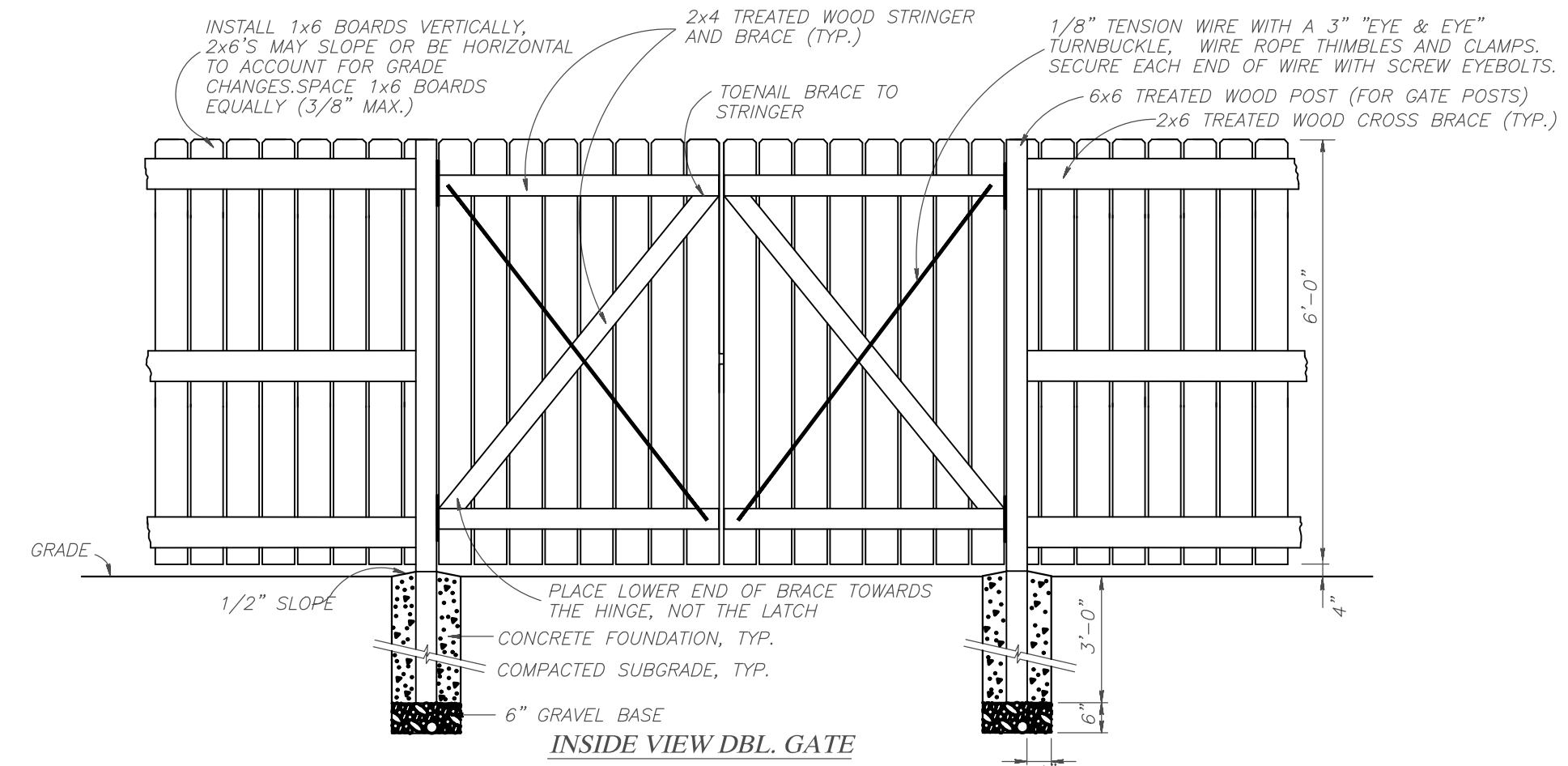
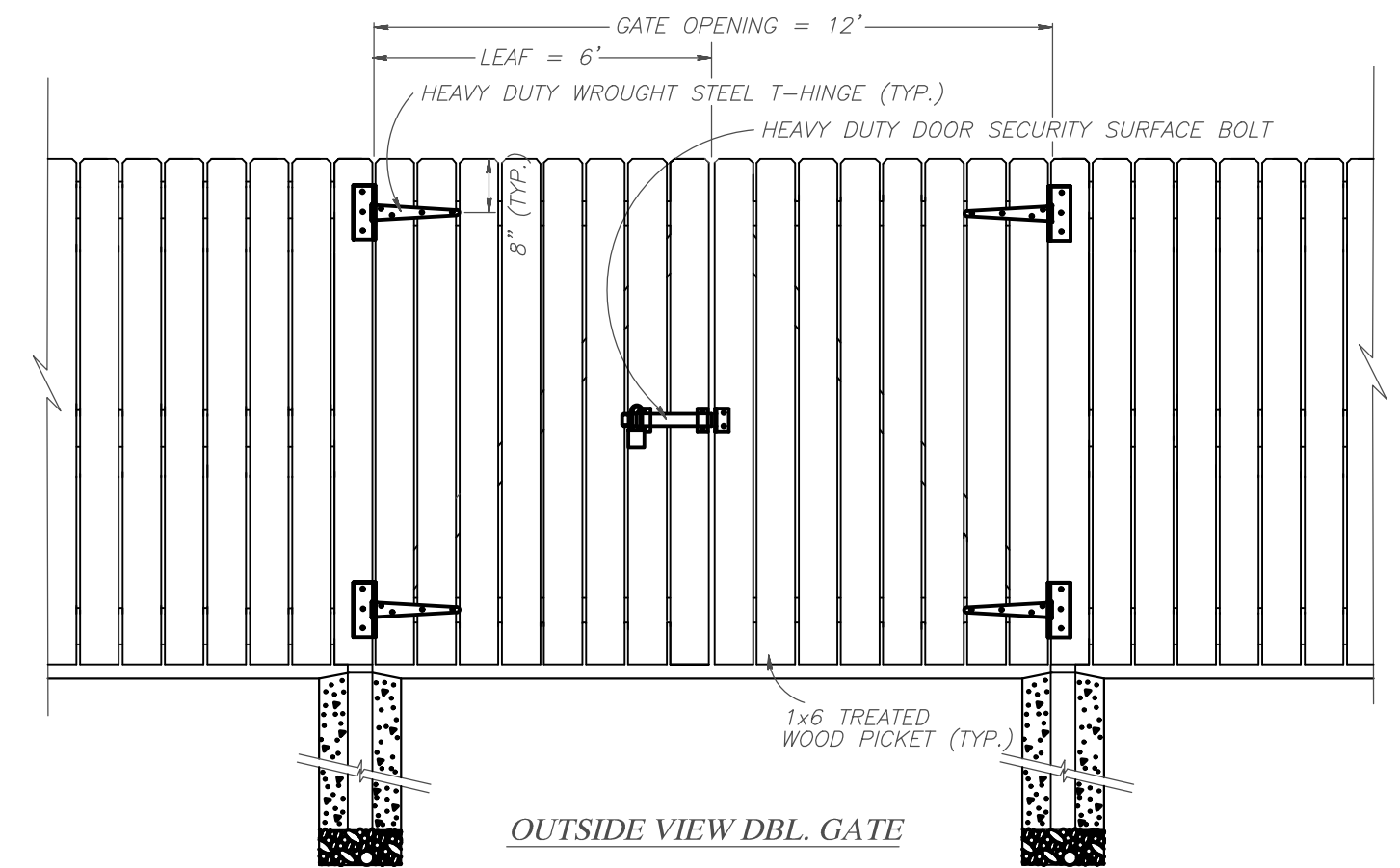
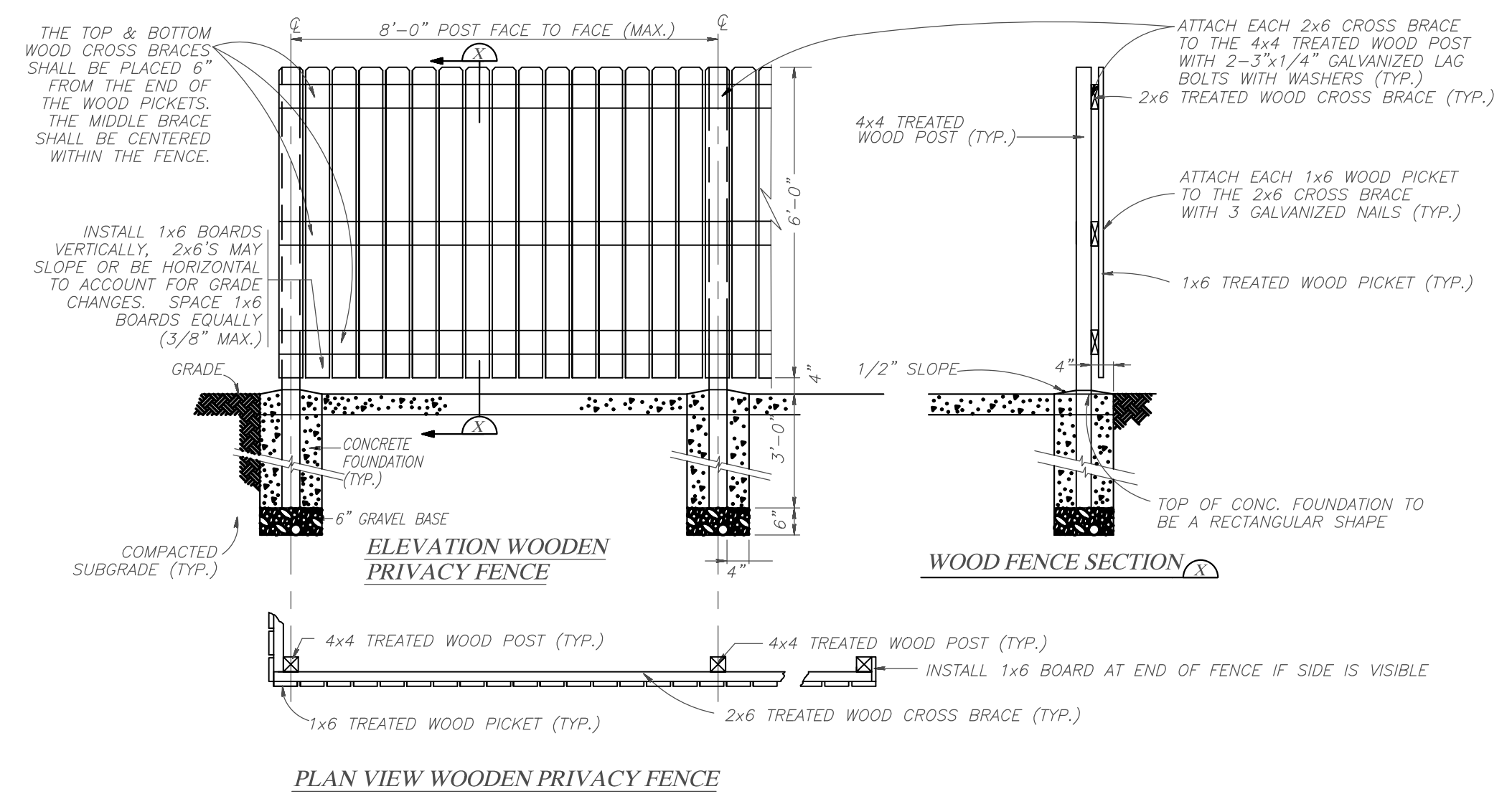
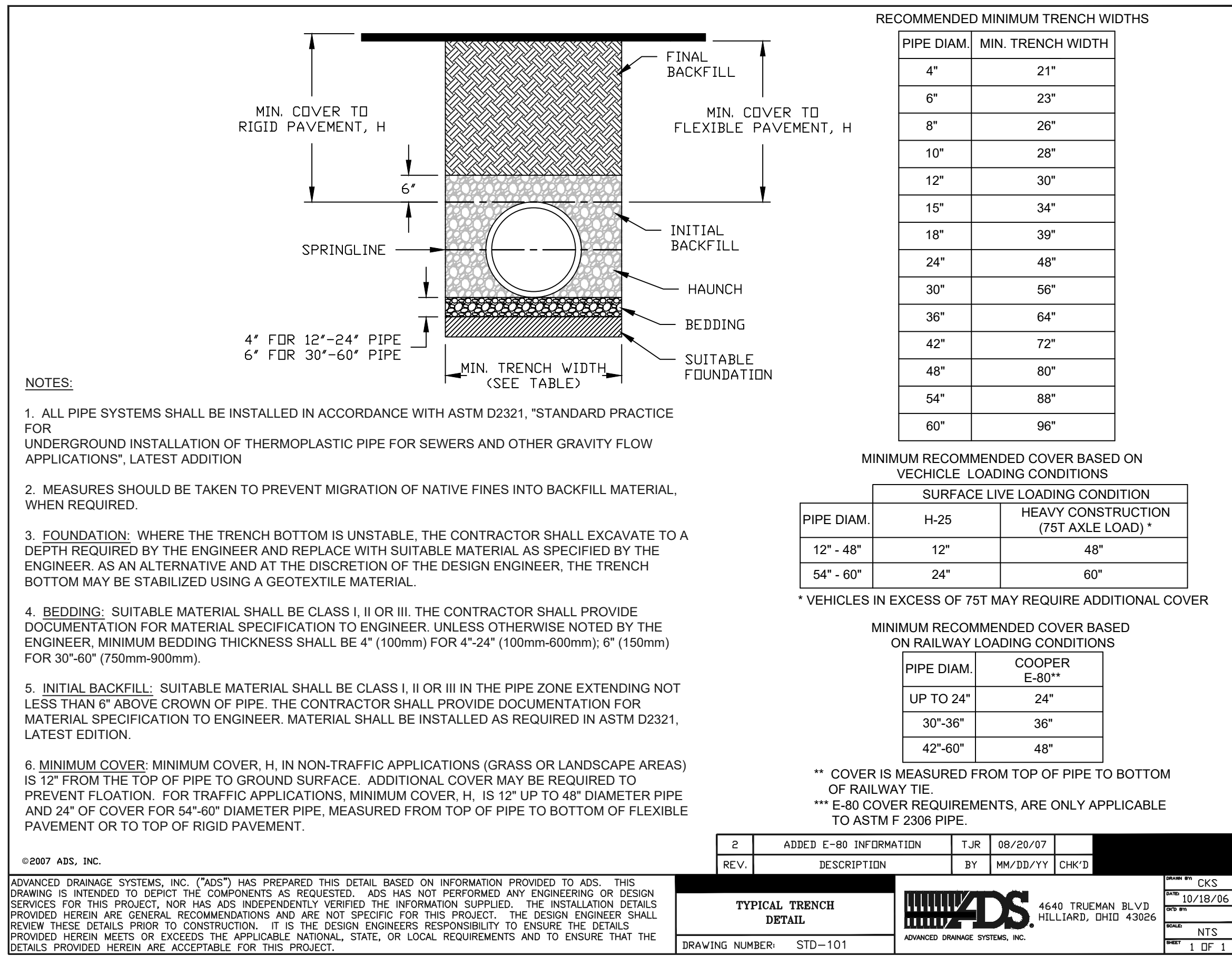


**13** C7.0 **DETAIL: HANDICAP LANDING & RAMP** (NTS)

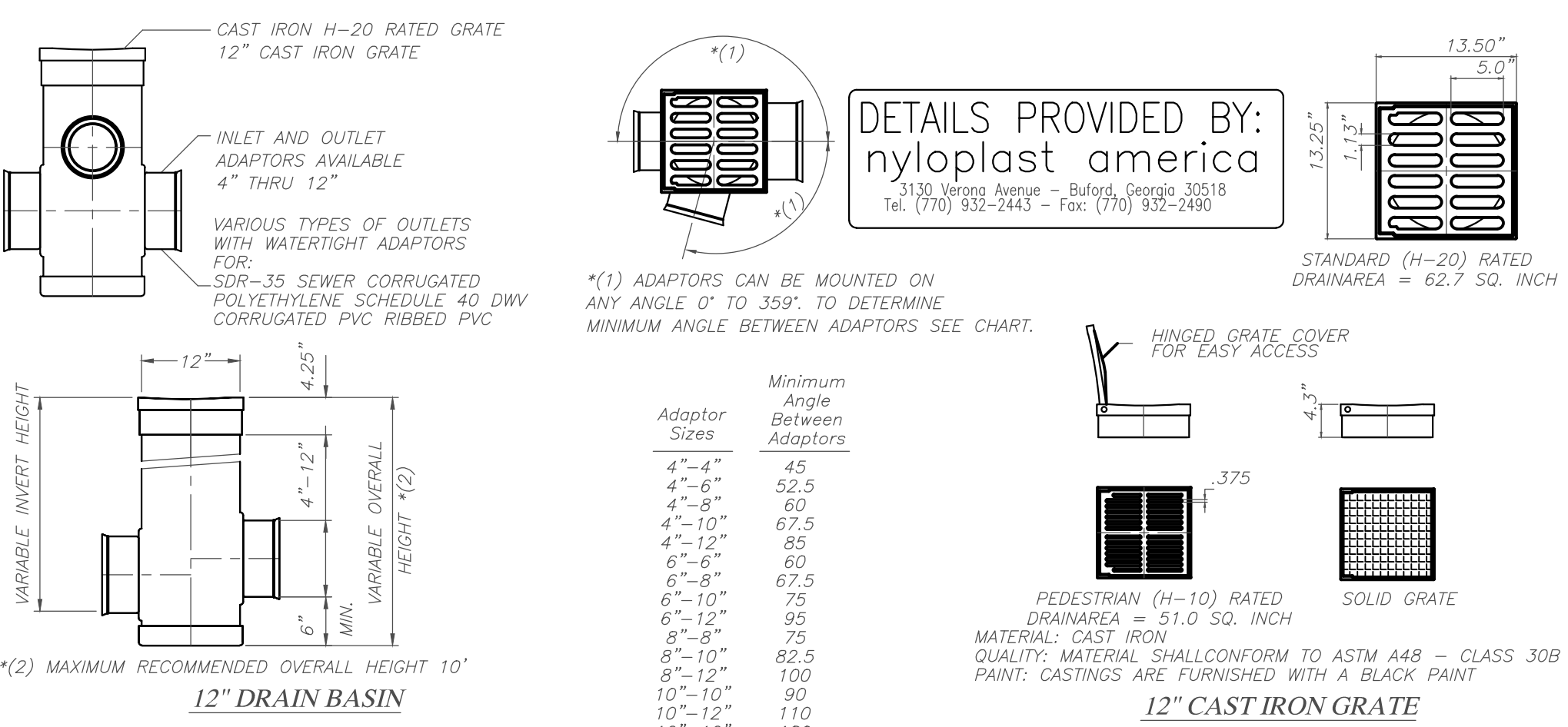


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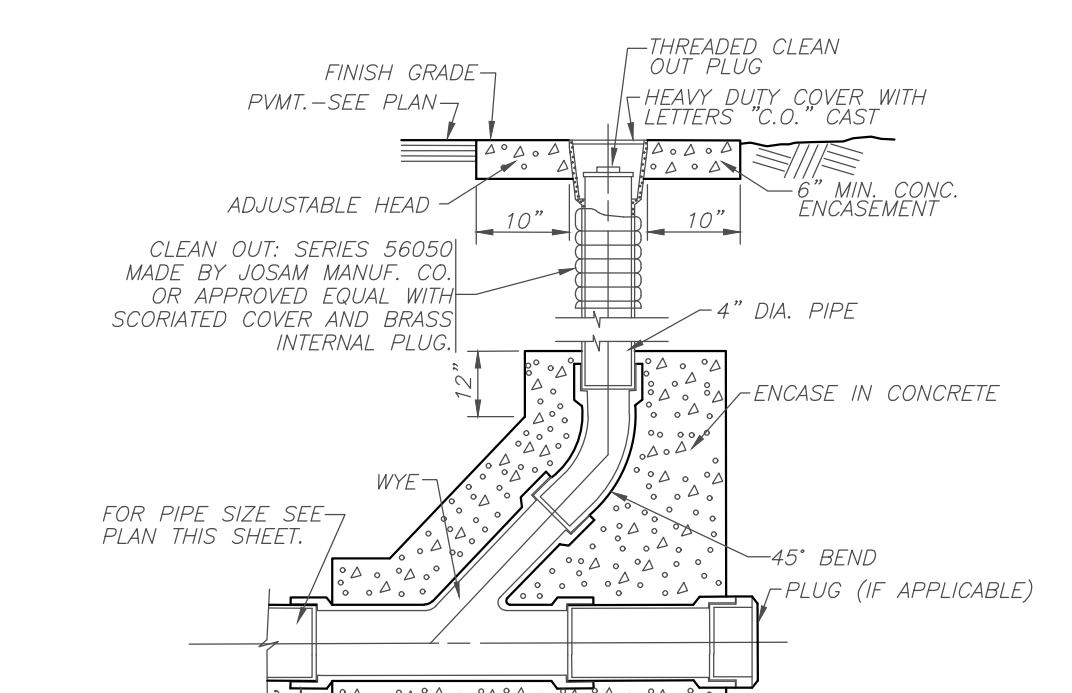




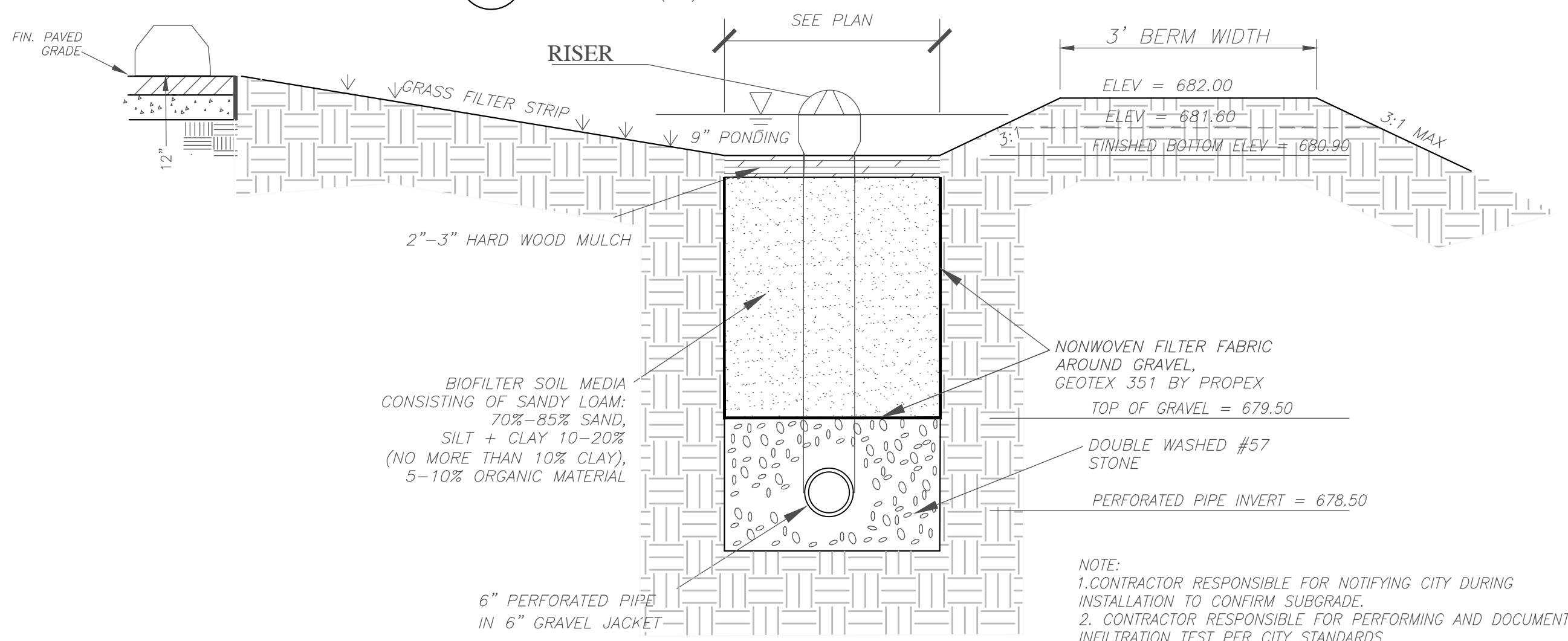
**4** **C8.0** **DETAIL: WOODEN PRIVACY FENCE & DOUBLE GATE** (NTS)



**2** **C8.0** **DETAIL: 12" NYLOPLAST DRAIN BASIN & GRATE** (NTS)

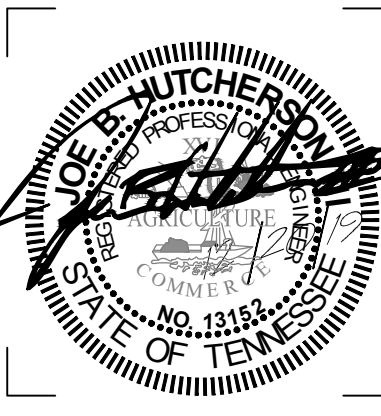


**3** **C8.0** **DETAIL: SANITARY SEWER CLEAN-OUT** (NTS)



**5** **C8.0** **DETAIL: BIO-RETENTION AREA** (NTS)

NOTE:  
1. CONTRACTOR RESPONSIBLE FOR NOTIFYING CITY DURING INSTALLATION TO CONFIRM SUBGRADE.  
2. CONTRACTOR RESPONSIBLE FOR PERFORMING AND DOCUMENTING INFILTRATION TEST PER CITY STANDARDS.  
3. STAMPED AS-BUILT SURVEY REQUIRED FOR CERTIFICATION.

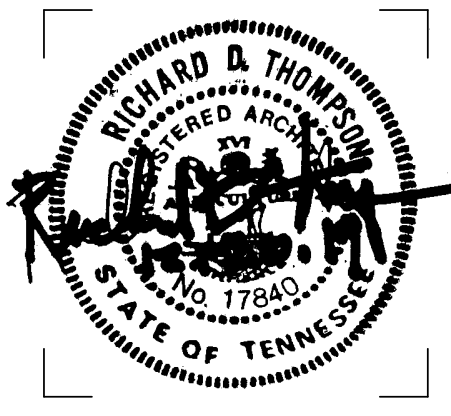


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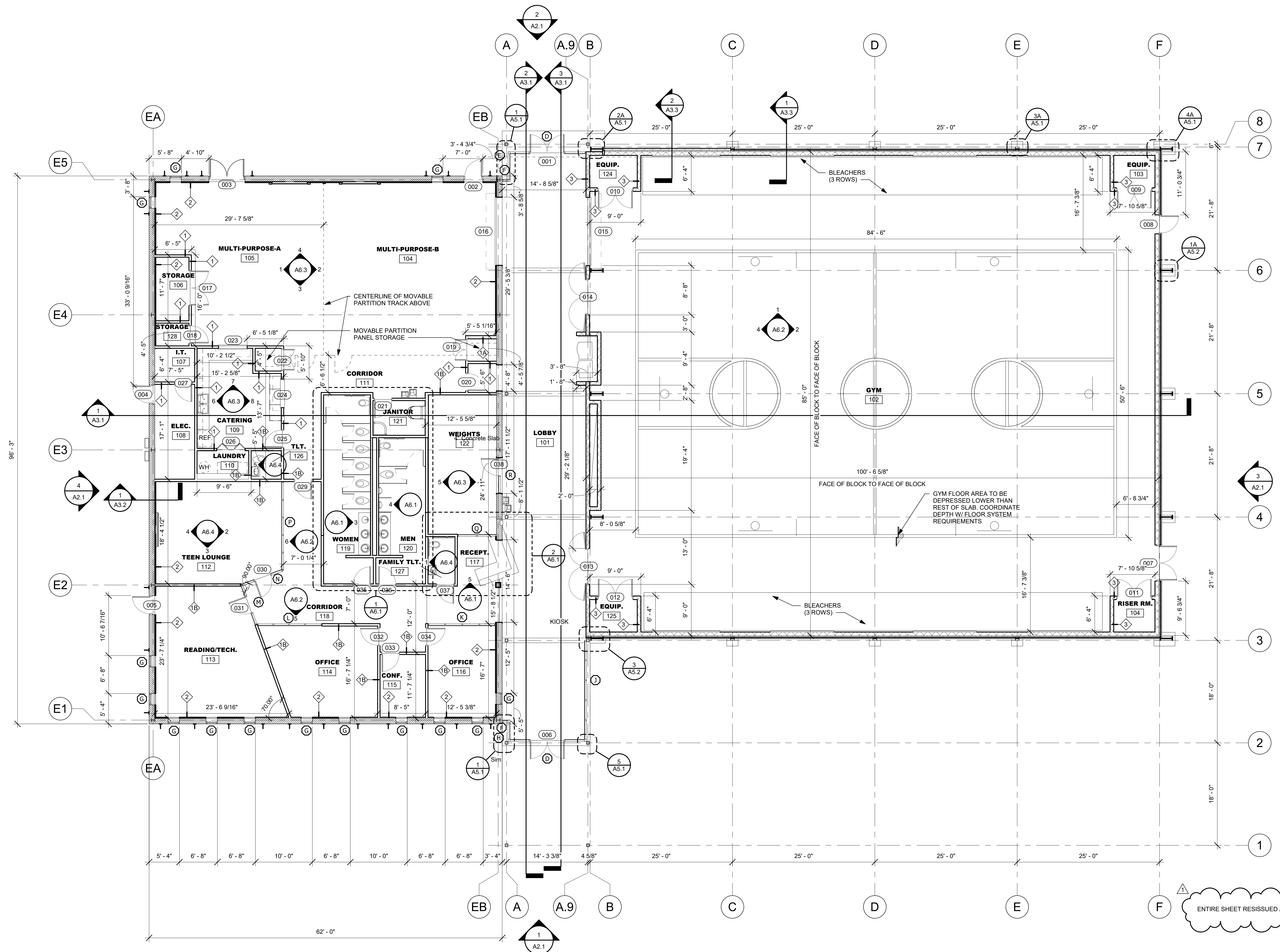
JOB NO. 18-072 | D'WN SDB | CK'D MH



**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402



ISSUE DATES  
 INITIAL ISSUE 12-20-19  
 1 Addendum 4 01/10/2020

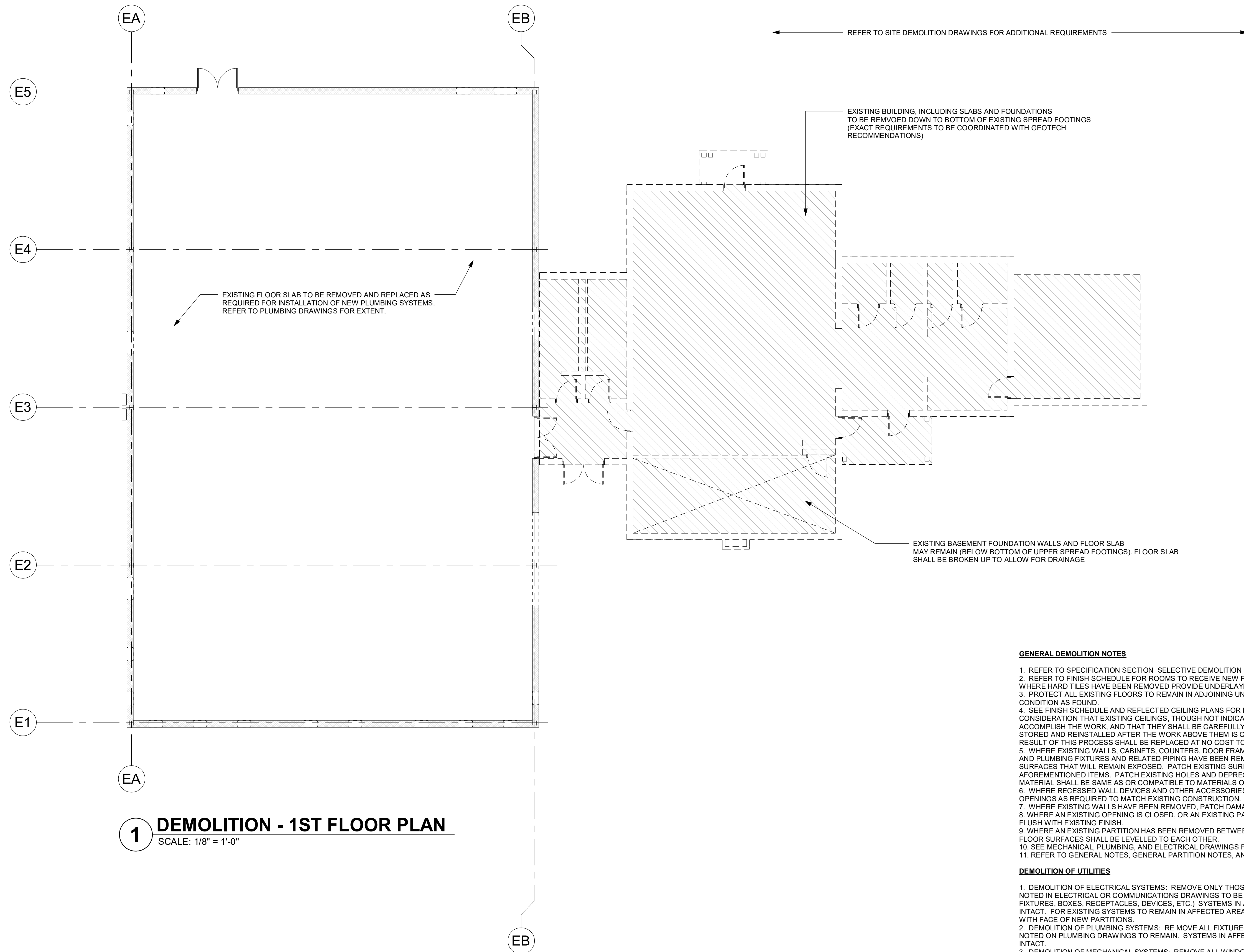


ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

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







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

**GENERAL DEMOLITION NOTES**

- REFER TO SPECIFICATION SECTION SELECTIVE DEMOLITION FOR ADDITIONAL REQUIREMENTS.
- REFER TO FINISH SCHEDULE FOR ROOMS TO RECEIVE NEW FLOOR FINISH. CLEAN AND PROVIDE LEVELLING MATERIAL, OR WHERE HARD TILES HAVE BEEN REMOVED PROVIDE UNDERLAYMENT, PRIOR TO INSTALLATION OF NEW FLOOR FINISH.
- PROTECT ALL EXISTING FLOORS TO REMAIN IN ADJOINING UNAFFECTED AREAS OR OTHERWISE LEAVE FLOORS IN SAME CONDITION AS FOUND.
- SEE FINISH SCHEDULE AND REFLECTED CEILING PLANS FOR ROOMS TO RECEIVE NEW CEILINGS. CONTRACTOR SHALL TAKE INTO CONSIDERATION THAT EXISTING CEILINGS, THOUGH NOT INDICATED TO BE REPLACED, MUST BE REMOVED AND REINSTALLED TO ACCOMPLISH THE WORK, AND THAT THEY SHALL BE CAREFULLY REMOVED BEFORE THE WORK ABOVE THEM IS BEGUN AND SHALL BE STORED AND REINSTALLED AFTER THE WORK ABOVE THEM IS COMPLETED. ANY TILE OR GRID SYSTEMS WHICH ARE DAMAGED AS A RESULT OF THIS PROCESS SHALL BE REPLACED AT NO COST TO THE OWNER.
- WHERE EXISTING WALLS, CABINETS, COUNTERTOPS, DOOR FRAMES, CEILINGS, DUCTWORK, ELECTRICAL DEVICES AND EQUIPMENT, AND PLUMBING FIXTURES AND RELATED PIPING HAVE BEEN REMOVED, PATCH DAMAGED SURFACES TO MATCH ADJOINING SURFACES THAT WILL REMAIN EXPOSED. PATCH EXISTING SURFACES DISTURBED IN THE PROCESS OF INSTALLING THE AFOREMENTIONED ITEMS. PATCH EXISTING HOLES AND DEPRESSIONS IN THE EXISTING WALLS AND FLOOR SLABS. PATCHING MATERIAL SHALL BE SAME AS OR COMPATIBLE TO MATERIALS OF SURFACES TO BE PATCHED.
- WHERE RECESSED WALL DEVICES AND OTHER ACCESSORIES HAVE BEEN REMOVED FROM WALLS THAT REMAIN, PATCH OPENINGS AS REQUIRED TO MATCH EXISTING CONSTRUCTION.
- WHERE EXISTING WALLS HAVE BEEN REMOVED, PATCH DAMAGE TO ADJOINING WALLS WHICH ARE TO REMAIN.
- WHERE AN EXISTING OPENING IS CLOSED, OR AN EXISTING PARTITION IS EXTENDED WITH NEW WORK, FINISH FACE OF NEW WORK FLUSH WITH EXISTING FINISH.
- WHERE AN EXISTING PARTITION HAS BEEN REMOVED BETWEEN ROOMS AND THE ADJOINING FLOOR SURFACES ARE UNEVEN, THE FLOOR SURFACES SHALL BE LEVELLED TO EACH OTHER.
- SEE MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK ABOVE AND BELOW EACH FLOOR STRUCTURE.
- REFER TO GENERAL NOTES, GENERAL PARTITION NOTES, AND PLAN NOTES FOR ADDITIONAL REQUIREMENTS.

**DEMOLITION OF UTILITIES**

- DEMOLITION OF ELECTRICAL SYSTEMS: REMOVE ONLY THOSE ELECTRICAL AND COMMUNICATIONS SYSTEMS SPECIFICALLY NOTED IN ELECTRICAL OR COMMUNICATIONS DRAWINGS TO BE REMOVED IN AFFECTED AREAS (I.E. REMOVE ALL CONDUIT, WIRING, FIXTURES, BOXES, RECEPTACLES, DEVICES, ETC.) SYSTEMS IN AFFECTED AREAS WHICH SERVE UNAFFECTED AREAS SHALL REMAIN INTACT. FOR EXISTING SYSTEMS TO REMAIN IN AFFECTED AREAS PROVIDE EXTENSIONS AS REQUIRED TO ALIGN DEVICES FLUSH WITH FACE OF NEW PARTITIONS.
- DEMOLITION OF PLUMBING SYSTEMS: REMOVE ALL FIXTURES AND RELATED PIPING IN AFFECTED AREAS UNLESS SPECIFICALLY NOTED ON PLUMBING DRAWINGS TO REMAIN. SYSTEMS IN AFFECTED AREAS THAT SERVE UNAFFECTED AREAS SHALL REMAIN INTACT.
- DEMOLITION OF MECHANICAL SYSTEMS: REMOVE ALL WINDOW UNITS, RADIATORS, GRILLES, DIFFUSERS, DUCTWORK, EQUIPMENT, ETC. NOT SPECIFICALLY NOTED IN MECHANICAL DRAWINGS TO REMAIN IN AFFECTED AREAS. SYSTEMS IN AFFECTED AREAS WHICH SERVE UNAFFECTED AREAS SHALL REMAIN INTACT.
- DEMOLITION OF ALL UTILITIES (PLUMBING, MECHANICAL, ELECTRICAL, COMMUNICATIONS): WHERE SYSTEMS ARE ABANDONED, REMOVE TO BEHIND WALLS, 2" BELOW FLOORS, OR 2" BELOW STRUCTURE ABOVE. CAP AND/OR SEAL ANY REMOVED SYSTEM WHICH REMAINS IN SERVICE CONSISTENT WITH BEST PRACTICES OF TRADE INVOLVED.
- ALL ELECTRICAL, COMMUNICATIONS, PLUMBING, OR MECHANICAL SYSTEMS IN AREAS NOT AFFECTED BY THIS WORK MUST REMAIN IN FULL SERVICE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND MAINTAINING SAME IF INTERRUPTED AS PART OF THIS WORK.
- REFER TO PLUMBING, MECHANICAL, ELECTRICAL, AND COMMUNICATIONS DRAWINGS FOR ADDITIONAL DEMOLITION REQUIREMENTS.



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**A1.1D**  
FIRST FLOOR  
DEMOLITION PLAN



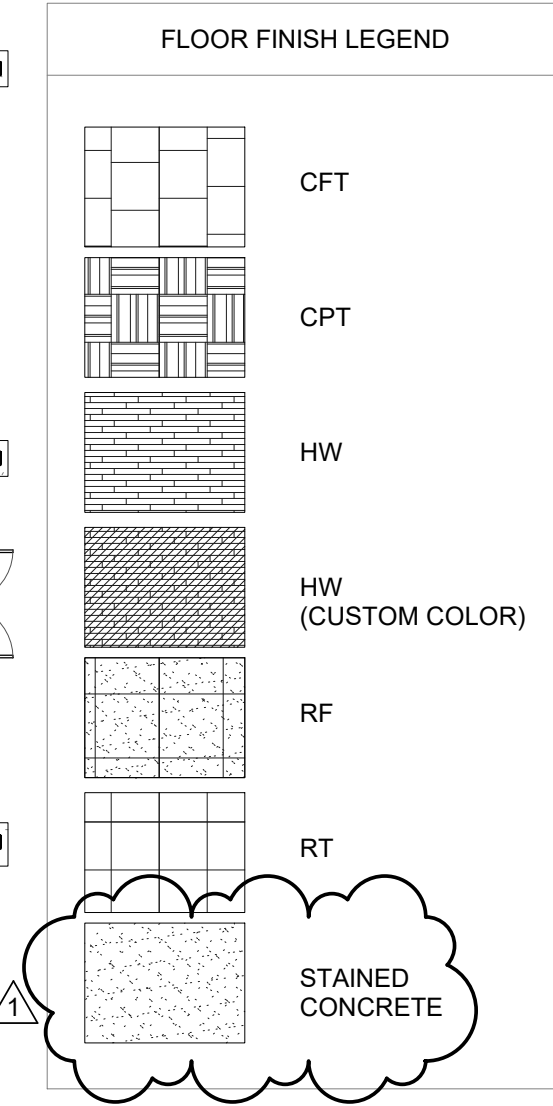
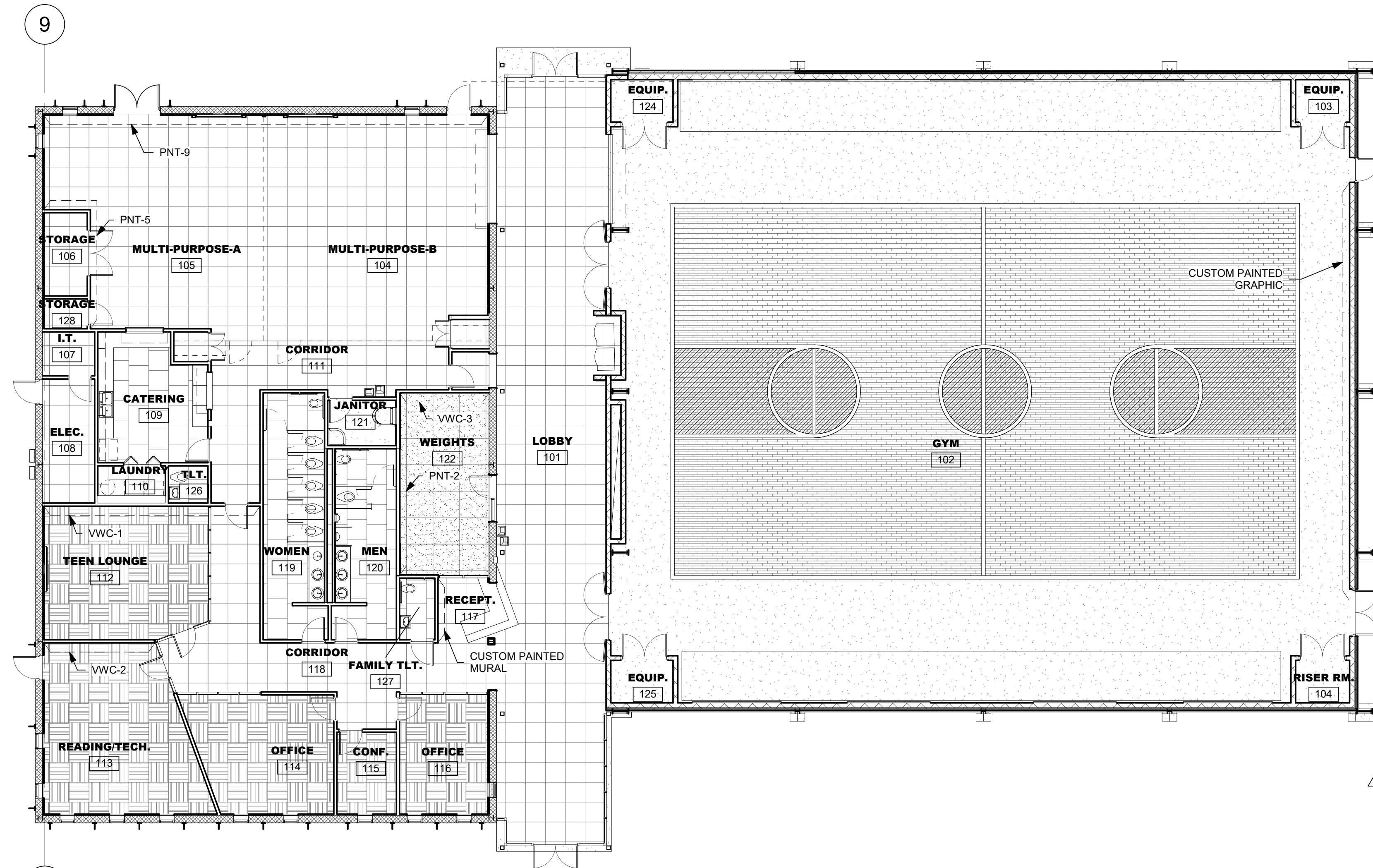
# ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORS		BASE MATERIAL	WALLS	TRIM FINISH	CEILING		CASEWORK		COMMENTS
		MATERIAL	COLOR				TYPE	FINISH	COUNTERS	WALL CABINETS	
101	LOBBY	RT	1-4	RB	1	PNT	1				
102	GYM	HW/ CONCRETE	1, 3	RB	1	PNT/AWP	1, 2, 8/1				WP-1 ON SIDE WALLS; SEE ELEVATIONS FOR PNT 1 & 2 AND AWP 1 LOCATIONS
103	EQUIP.	CONCRETE		RB	1	PNT	1				
104	RISER RM.	CONCRETE		RB	1	PNT	1				
104	MULTI-PURPOSE-B	RT	1-4	RB	1	PNT	1, 3, 9				
105	MULTI-PURPOSE-A	RT	1-4	RB	1	PNT	1, 3, 5, 9				PNT-3 ON BULKHEAD AS ACCENT, PNT-9 ON TV WALL; SEE FINISH PLAN. SEE RCP FOR COORDINATION OF ACP-3/4. PNT-3 ON BULKHEAD AS ACCENT, PNT-5 AS ACCENT, PNT-9 ON TV WALL; SEE FINISH PLAN. SEE RCP FOR COORDINATION OF ACP-4, 4.
106	STORAGE	RT	1	RB	1	PNT	1				
107	I.T.	RT	1	RB	1	PNT	1				
108	ELEC.	RT	1	RB	1	PNT	1				
109	CATERING	CFT	1	RB	1	PNT	1				
110	LAUNDRY	CFT	1	RB	1	PNT	1				
111	CORRIDOR	RT	1-4	RB	1	PNT	1				
112	TEEN LOUNGE	CPT	1	RB	1	PNT/WVC	1-4/1				PNT-2-4 AS ACCENT; SEE ELEVATIONS
113	READING/TECH.	CPT	1	RB	1	PNT/WVC	1, 5/2				
114	OFFICE	CPT	1	RB	1	PNT	7				
115	CONF.	CPT	1	RB	1	PNT	7				
116	OFFICE	CPT	1	RB	1	PNT	7				
117	RECEPT.	RT	1-4	RB	1	PNT	1			SS-1	PLAM-1
118	CORRIDOR	RT	1-4	RB	1	PNT	1				
119	WOMEN	CFT	1			CWT	1				
120	MEN	CFT	1			CWT	1				
121	JANITOR	CONCRETE		RB	1	PNT	1				
122	WEIGHTS	RF	1	RB	1	PNT/WVC	1, 2/3				PNT-2 ON MIRROR WALL; SEE ELEVATIONS
123	WATER	RT	1	RB	1	PNT	1				
124	EQUIP.	CONCRETE		RB	1	PNT	1				
125	EQUIP.	CONCRETE		RB	1	PNT	1				
126	TLT.	CFT	1			CWT	1				
127	FAMILY TLT.	CFT	1			CWT	1				
128	STORAGE	RT	1	RB	1	PNT	1				

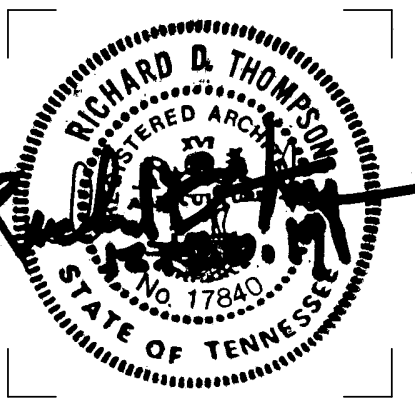
# FINISH LEGEND

SYMBOL	COLOR	DESCRIPTION	MANUFACTURER	PRODUCT	FINISH	NOTES
<b>FLOOR</b>						
CFT	1	CERAMIC FLOOR TILE	LOUISVILLE TILE	AMERICAN OLEAN - NEOSPECK	DARK GRAY NE05 - MATTE	1/3 OFFSET; CONTACT BETHE MOTLOW FOR INFORMATION: BMOTLOW@LOUISVILLE-TILE.COM
CPT	1	CARPET TILE	EF CONTRACT	KINETIX	SPREE - FLING SPR34	24" X 24"; QUARTER TURN INSTALL.
HW	1	HARDWOOD	CONNOR SPORTS	VIP TM	MAPLE	MANUFACTURER TO PROVIDE REDUCER STRIP FOR HW TO CONCRETE TRANSITION
HW	2 (NOT USED)	HARDWOOD	CONNOR SPORTS	VIP TM	MAPLE	OAK STAIN
HW	3	HARDWOOD	CONNOR SPORTS	VIP TM	MAPLE	CUSTOM COLOR COURT LINE LAYOUT BY MANUFACTURER
RF	1	RUBBER FLOOR	DINOFLEX	SPORT MAT - STANDARD	10 GREEN 5119	
RT	1	RESILIENT TILE	UPOFLOOR	QUARTZ. MOSAIC COLLECTION	61903	610MM X 610MM
RT	2	RESILIENT TILE	UPOFLOOR	QUARTZ. MOSAIC COLLECTION	619304	610MM X 610MM
RT	3	RESILIENT TILE	UPOFLOOR	QUARTZ. MOSAIC COLLECTION	619306	610MM X 610MM
RT	4	RESILIENT TILE	UPOFLOOR	QUARTZ. MOSAIC COLLECTION	619301	610MM X 610MM
<b>BASE</b>						
RB	1	RESILIENT BASE	JOHNSONITE	MW-XX-F	32 PEBBLE WG	4.25" REVEAL
<b>WALL</b>						
AWP	1	ACOUSTIC WALL PANEL	ARMSTRONG	TECTUM DIRECT-ATTACH	TECTUM WHITE	48" X 144"
CWT	1	CERAMIC WALL TILE	LOUISVILLE TILE	ATLAS CONCORDE - CRAFT	WICKER DOVE	CONTACT BETHE MOTLOW FOR INFORMATION: BMOTLOW@LOUISVILLE-TILE.COM
<b>FILM</b>						
FILM	1 (NOT USED)	FILM	OLEE CREATIVE	TEXTURED SURFACE FILM	CUSTOM GRAPHIC - TBD	
PNT	1	PAINT	SHERWIN WILLIAMS		SW6252 ICE CUBE	
PNT	2	PAINT	SHERWIN WILLIAMS		SW6718 OVERT GREEN	
PNT	3	PAINT	SHERWIN WILLIAMS		SW6573 JUNE BERRY FLAT	
PNT	4	PAINT	SHERWIN WILLIAMS		SW6959 BLUE CHIP	
PNT	5	PAINT	SHERWIN WILLIAMS		SW6958 DYNAMIC BLUE	
PNT	6	PAINT	SHERWIN WILLIAMS		SW7069 IRON ORE	
PNT	7	PAINT	SHERWIN WILLIAMS		SW7667 ZIRCON	
PNT	8	PAINT	SHERWIN WILLIAMS		SW7609 GEORGIAN REVIVAL BLUE	
PNT	9	PAINT	SHERWIN WILLIAMS		SW7018 DOVETAIL	
WVC	1	WALL COVERING	NATIONAL WALLCOVERING	LEVEL - DESIGN	WORD WALLS (L51706) - SCRIPT SHARPIE	CONTACT AIMEE CHADWICK FOR INFORMATION: AIMEE.CHADWICK@NATIONALSOLUTIONS.COM
WVC	2	WALL COVERING	NATIONAL WALLCOVERING	LEVEL - DESIGN	NEON WORD WALL (L91502G) - STEEL	CONTACT AIMEE CHADWICK FOR INFORMATION: AIMEE.CHADWICK@NATIONALSOLUTIONS.COM
WVC	3	WALL COVERING	NATIONAL WALLCOVERING	LEVEL - DESIGN	WORD PLAY (L72201) - SPLASH TITANIUM	CONTACT AIMEE CHADWICK FOR INFORMATION: AIMEE.CHADWICK@NATIONALSOLUTIONS.COM
<b>MILLWORK</b>						
PLAM	1	PLASTIC LAMINATE	WILSONART		KENSINGTON MAPLE 10778-60	MATTE FINISH
PLAM	2	PLASTIC LAMINATE	PIONITE		MOONLIGHTING PAPEL AV971	SUEDE
PLAM	3	PLASTIC LAMINATE	WILSONART		ALABASTER D431-60	MATTE FINISH
PLAM	4	PLASTIC LAMINATE	WILSONART	DECORATIVE METALS	6277 (419) ALUMASTEEL	ONLY USED AS BASE AT RECEPTION DESK
SS	1	SOLID SURFACE	CORIAN		ASH CONCRETE	
SS	2	SOLID SURFACE	CORIAN		BISQUE	
<b>CEILING</b>						
ACP	1	ACOUSTIC CEILING PANEL	ARMSTRONG	WOODWORKS CANOPIES	MAPLE	CUSTOM SHAPE; CONTACT MANUFACTURER FOR DETAILS
ACP	2 (NOT USED)	ACOUSTIC CEILING PANEL	ARMSTRONG			
ACP	3	ACOUSTIC CEILING PANEL	ARMSTRONG	SOUNDSCAPES-VALLEY	LAGOON (LA)KIWI (KW)	SEE RCP FOR SHAPE/COLOR COORDINATION
ACP	4	ACOUSTIC CEILING PANEL	ARMSTRONG	SOUNDSCAPES-HILL	LAGOON (LA)KIWI (KW)	SEE RCP FOR SHAPE/COLOR COORDINATION
ACT	1	ACOUSTICAL CEILING TILE	ARMSTRONG	CIRRUS - TEGULAR		2' X 2'
GYP BD	1	GYP SUM BOARD				

NOTES:  
 1. CWT TO CFT TRANSITION TO BE: SCHLUTER DILEX-AHK; ANODIZED ALUMINUM FINISH.  
 2. CPT TO RT TRANSITION TO BE: JOHNSONITE CTA-XX-A; 29 MOONROCK WG  
 3. CFT TO RT TRANSITION TO BE: SCHLUTER RENO-U; STAINLESS STEEL BRUSHED



**1 1ST FLOOR FINISH PLAN**  
 SCALE: 3/32" = 1'-0"






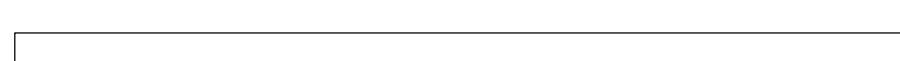





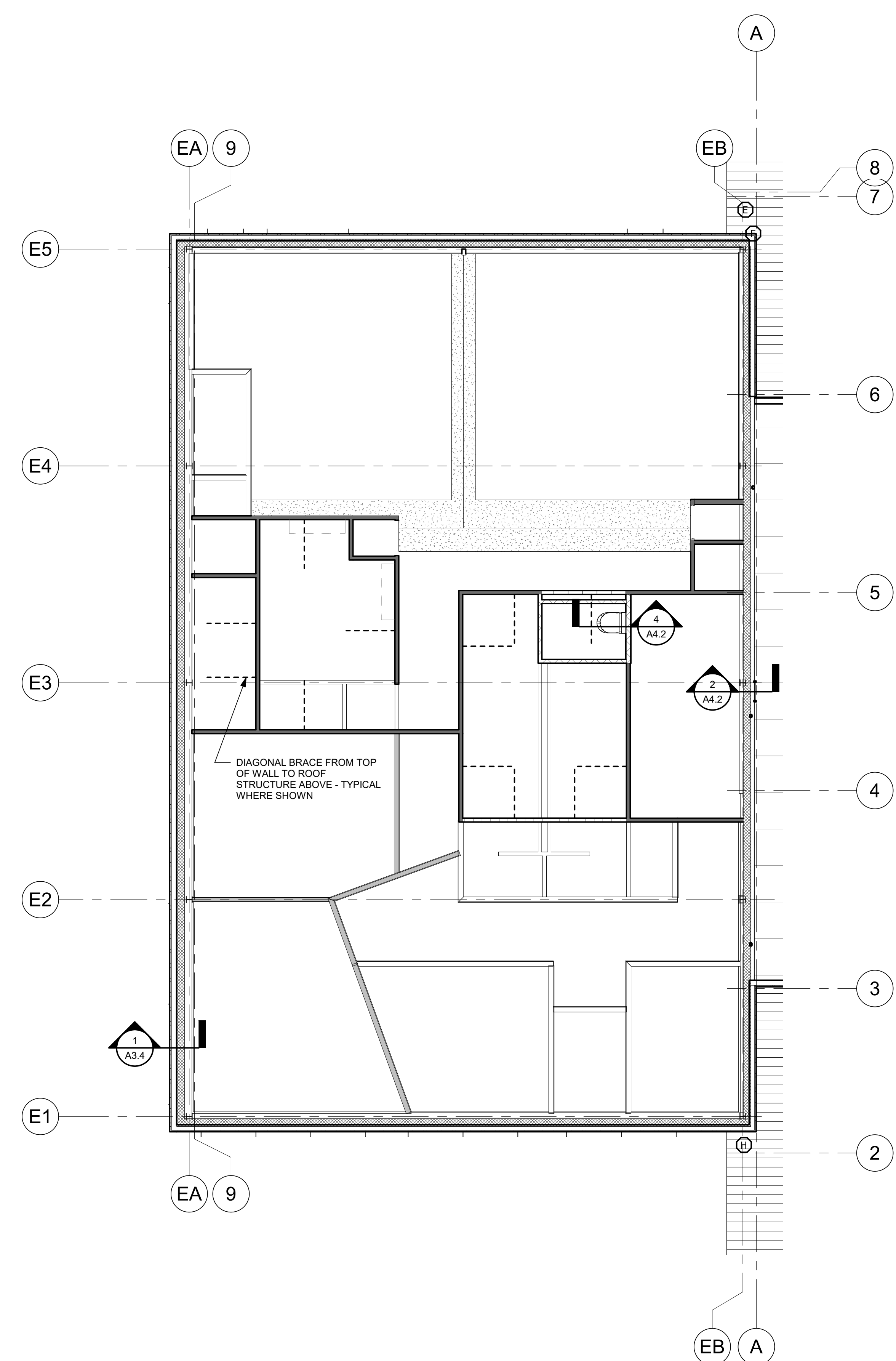
ISSUE DATES  
 INITIAL ISSUE 12-20-19  
 1 Addendum 4 01/10/2020

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**A1.2**  
 INTERIOR PARTITION HEIGHTS

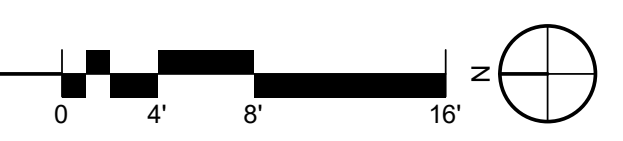
**WALL HEIGHT**

	WALL HEIGHT TO UNDER SIDE OF DECKING
	20' WALL HEIGHT
	15' WALL HEIGHT
	10' WALL HEIGHT
	20' WALL HEIGHT BOTTOM @ 10' A.F.F.

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

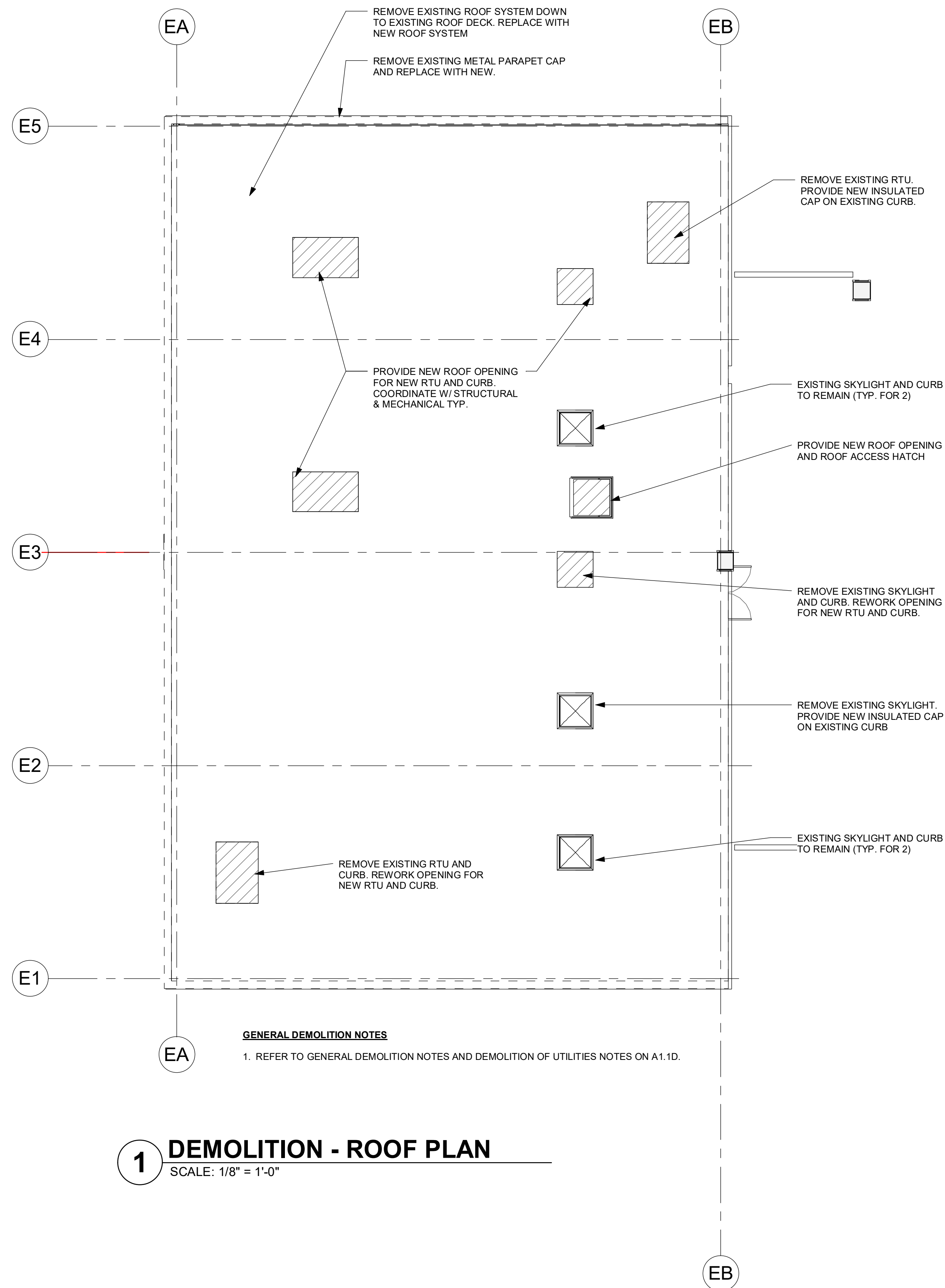


**1 INTERIOR PARTITION HEIGHTS**  
 SCALE: 1/8" = 1'-0"



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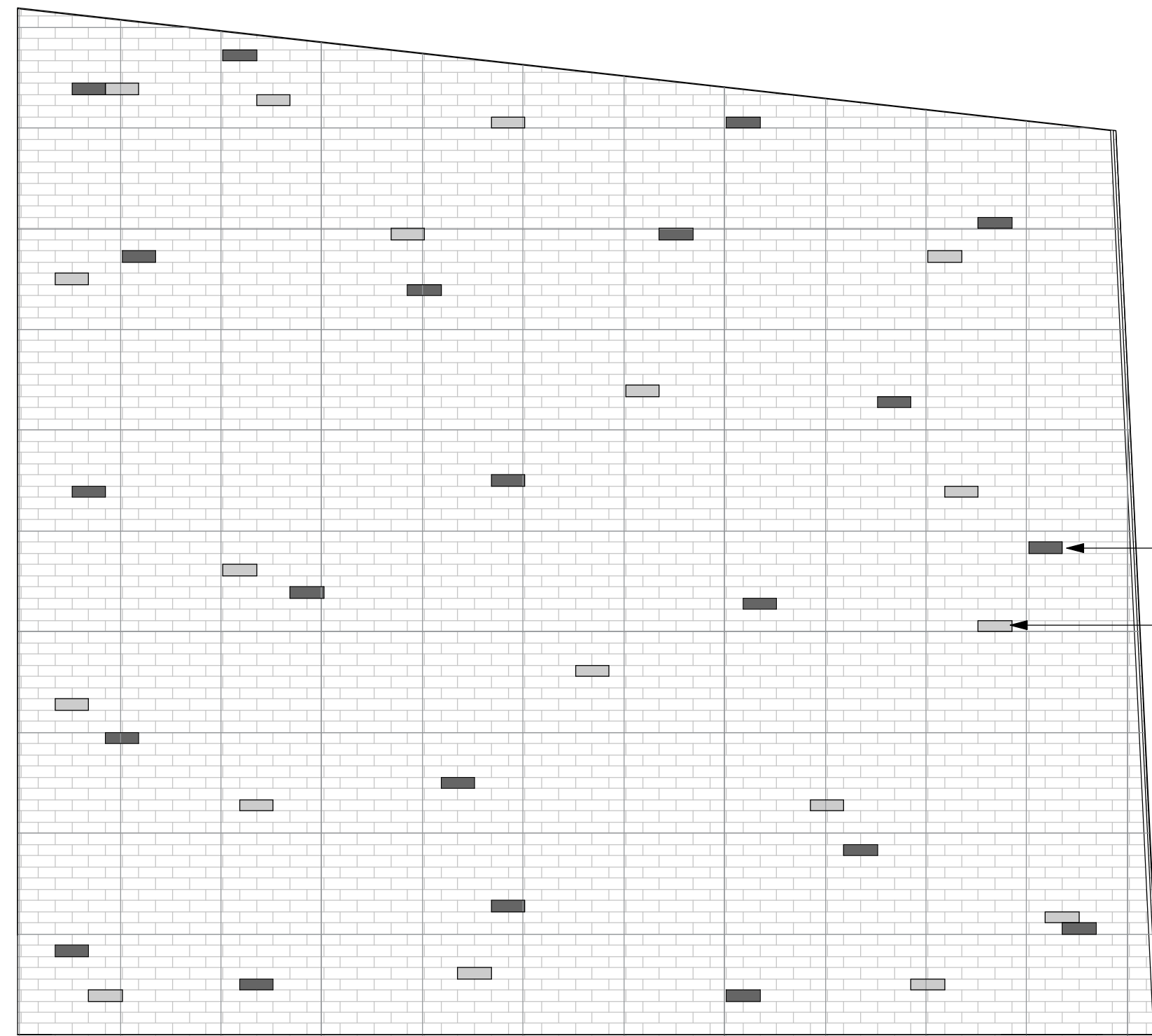
**GENERAL DEMOLITION NOTES**  
 1. REFER TO GENERAL DEMOLITION NOTES AND DEMOLITION OF UTILITIES NOTES ON A1.1D.

**1 DEMOLITION - ROOF PLAN**  
 SCALE: 1/8" = 1'-0"



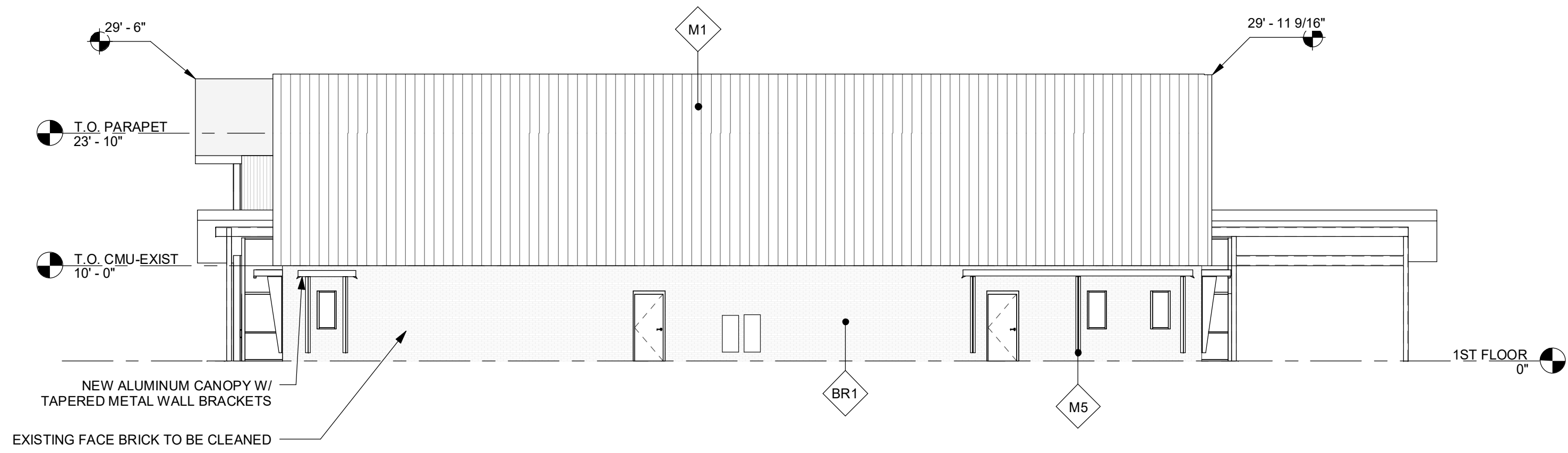
ISSUE DATES  
 INITIAL ISSUE 12-20-19



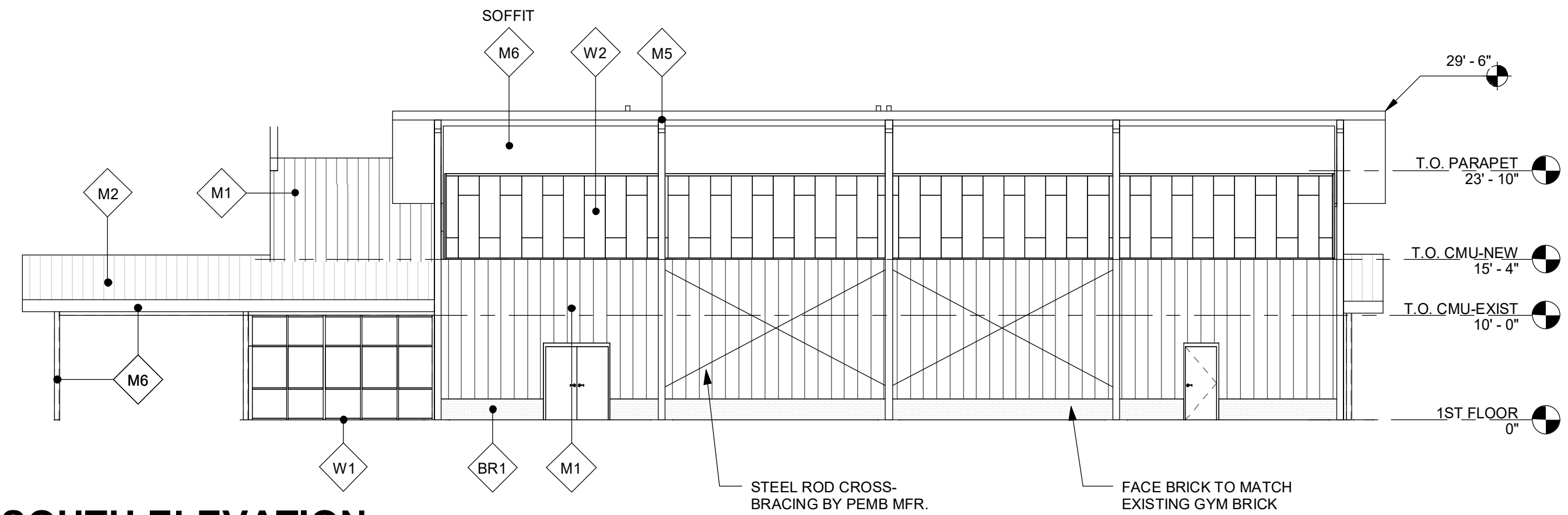


**5 EXTERIOR ACCENT WALL DETAIL**  
SCALE: 3/8" = 1'-0"

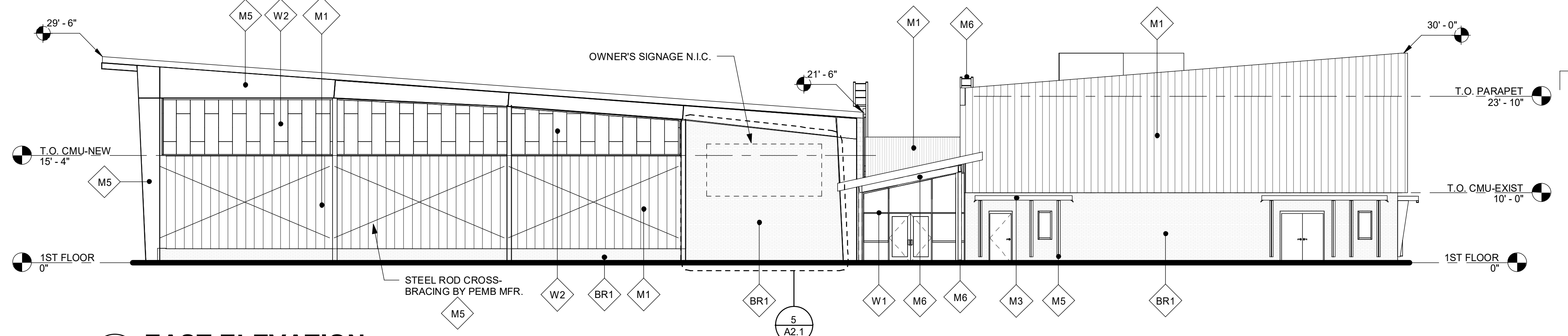
2'x2' GRID OVERLAY SHOWN FOR REFERENCE ONLY TO HELP APPROXIMATE LOCATIONS OF CUSTOM GLAZED BRICKS (BR2 & BR3)



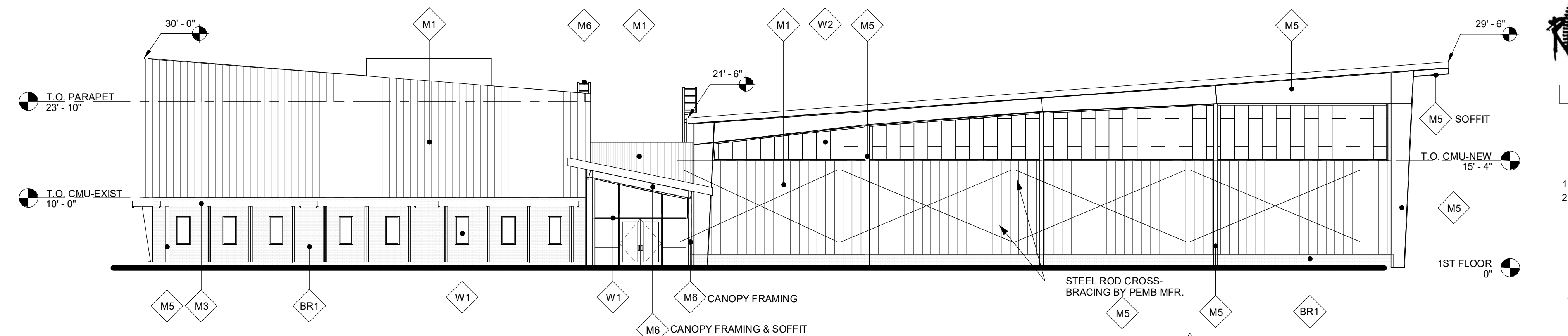
**4 NORTH ELEVATION**  
SCALE: 3/32" = 1'-0"



**3 SOUTH ELEVATION**  
SCALE: 3/32" = 1'-0"



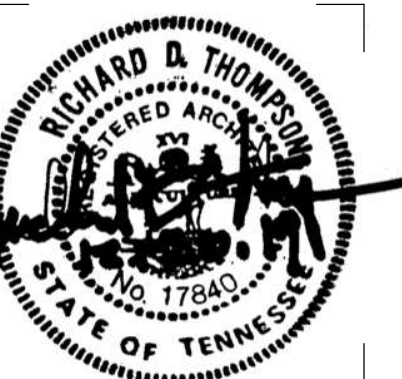
**2 EAST ELEVATION**  
SCALE: 3/32" = 1'-0"



**1 WEST ELEVATION**  
SCALE: 3/32" = 1'-0"

**MATERIAL LEGEND**

◇	MATERIAL
<b>METAL</b>	
M1	METAL WALL PANEL - STANDING SEAM, BERRIDGE ZINC GREY
M2	METAL ROOF PANEL - STANDING SEAM (CONCEALED FASTENER), BERRIDGE ZINC GREY
M3	METAL CANOPY - PREFINISHED ALUMINUM CANOPY PER SPECIFICATIONS, MATCH P1
M4	METAL MISCELLANEOUS - GUTTERS, DOWNSPOUTS, SOFFIT, COPING; PREFINISHED FROM COLORS AS SPECIFIED
M5	EXPOSED EXTERIOR STRUCTURE (TYPICAL, EXCEPT WHERE NOTED), FINISHED TO MATCH P-1
M6	EXPOSED EXTERIOR STRUCTURE (CENTRAL SPINE), FINISHED TO MATCH P-2
<b>STOREFRONT/WINDOWS</b>	
W1	CLEAR ANODIZED STOREFRONT FRAMING WITH 1" CLEAR INSULATED SAFETY GLAZING (TEMPERED WHERE CODE REQUIRES)
W2	TRANSLUCENT THERMAL GLAZING SYSTEM - MANUFACTURER'S STANDARD WHITE COLOR
<b>PAINT</b>	
P1	DARK GRAY GREEN (ALL EXPOSED STEEL UNLESS NOTED OTHERWISE) SHERWIN WILLIAMS SW6209 RIPE OLIVE
P2	OFF-WHITE (ALL STEEL AT CENTRAL SPINE)
<b>MASONRY</b>	
BR1	FIELD COLOR AND MORTAR TO MATCH EXISTING. PROVIDE BR-2 & BR-3 ACCENTS AS INDICATED. PALMETTO RED SMOOTH
BR2	GLAZED ACCENT COLOR - (TO MATCH BR1 SIZE) - ELGIN BUTLER #4340 RAINFOREST GREEN
BR3	GLAZED ACCENT COLOR - (TO MATCH BR1 SIZE) - ELGIN BUTLER #4625 PURPLE HEART



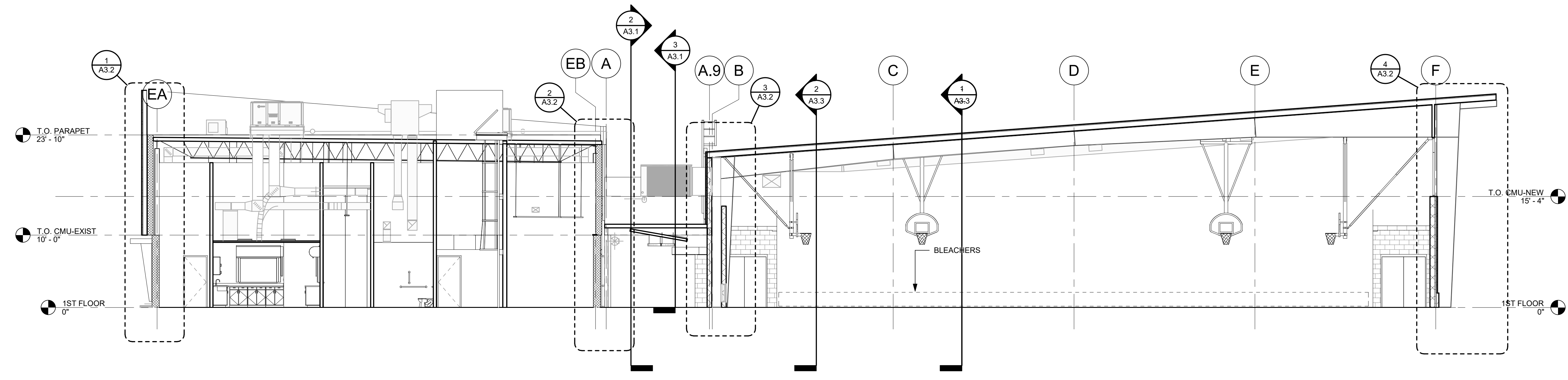
ISSUE DATES  
INITIAL ISSUE 12-20-19  
1 Addendum 4 01/10/2020  
2 Addendum 8 01/21/2020

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Author Checker

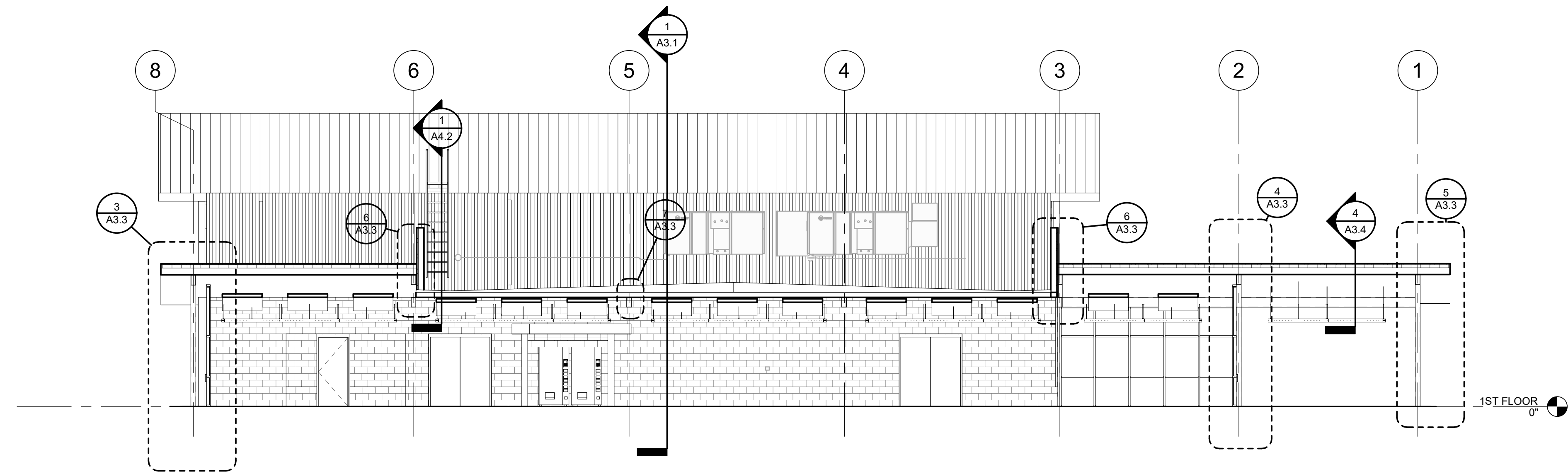
**A2.1**  
EXTERIOR  
ELEVATIONS

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

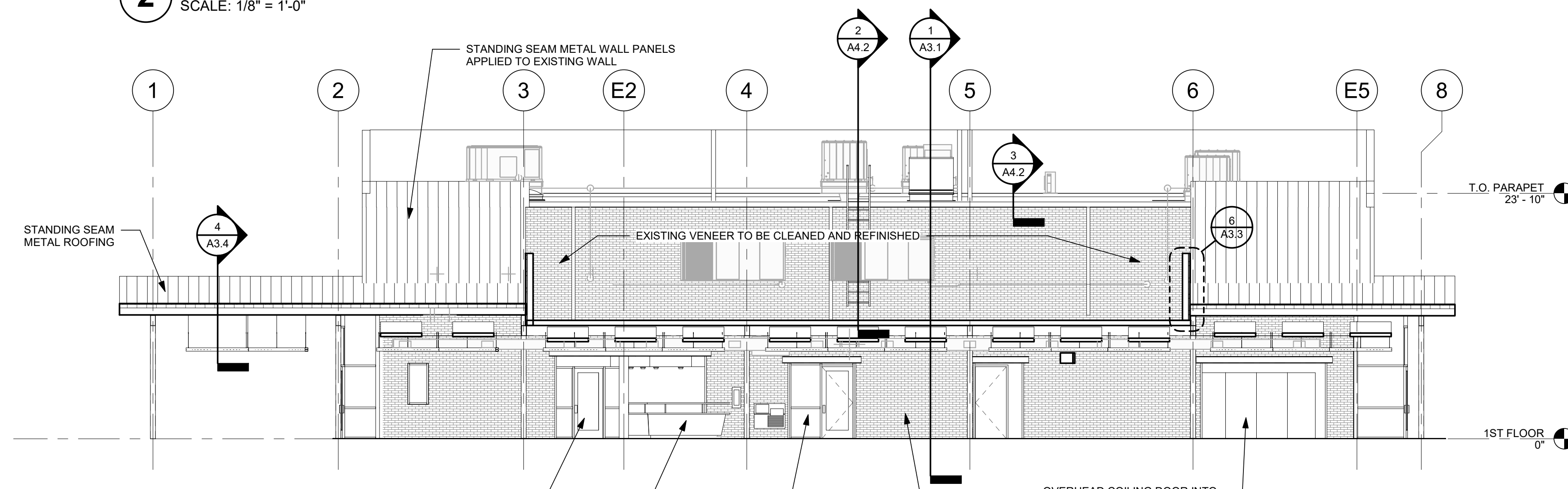




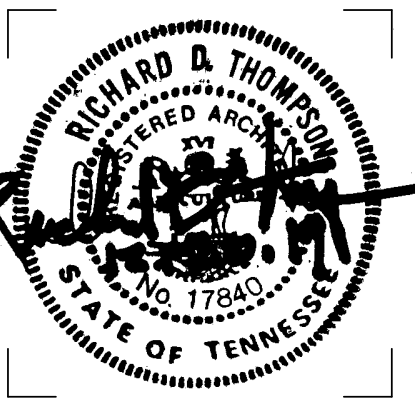
**1 BUILDING SECTION**  
 SCALE: 1/8" = 1'-0"



**2 BUILDING SECTION**  
 SCALE: 1/8" = 1'-0"



**3 BUILDING SECTION**  
 SCALE: 1/8" = 1'-0"



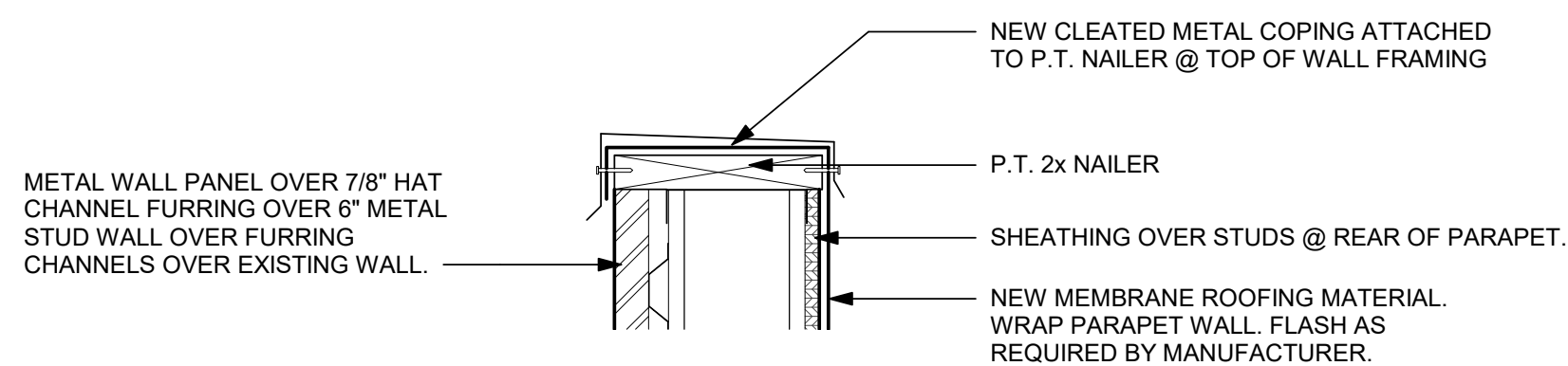
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INITIAL ISSUE	12-20-19
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18-072	Author	Checker

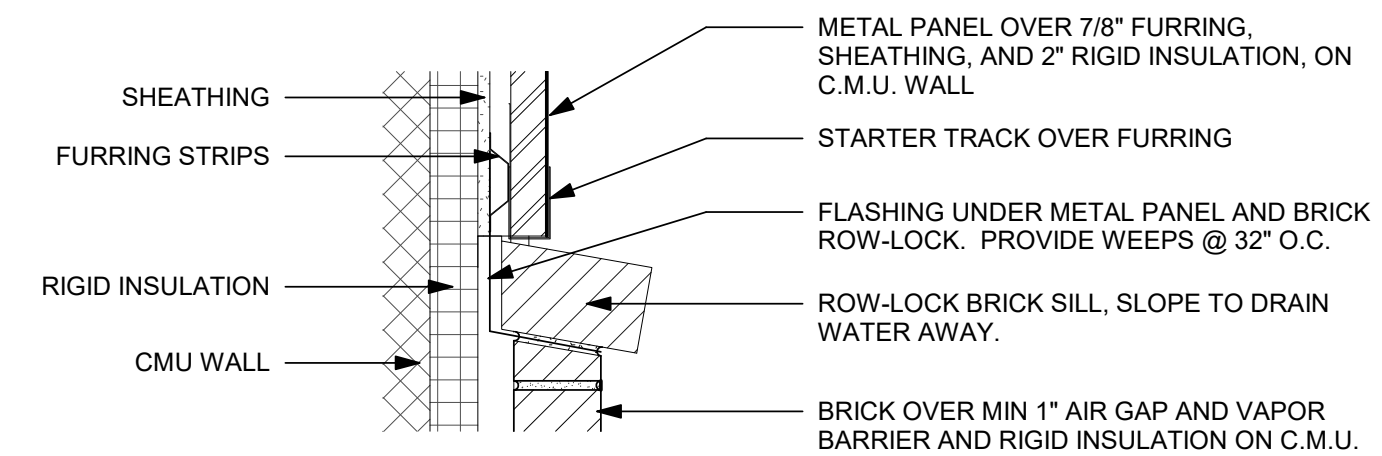
ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.

**A3.1**  
 BUILDING SECTIONS

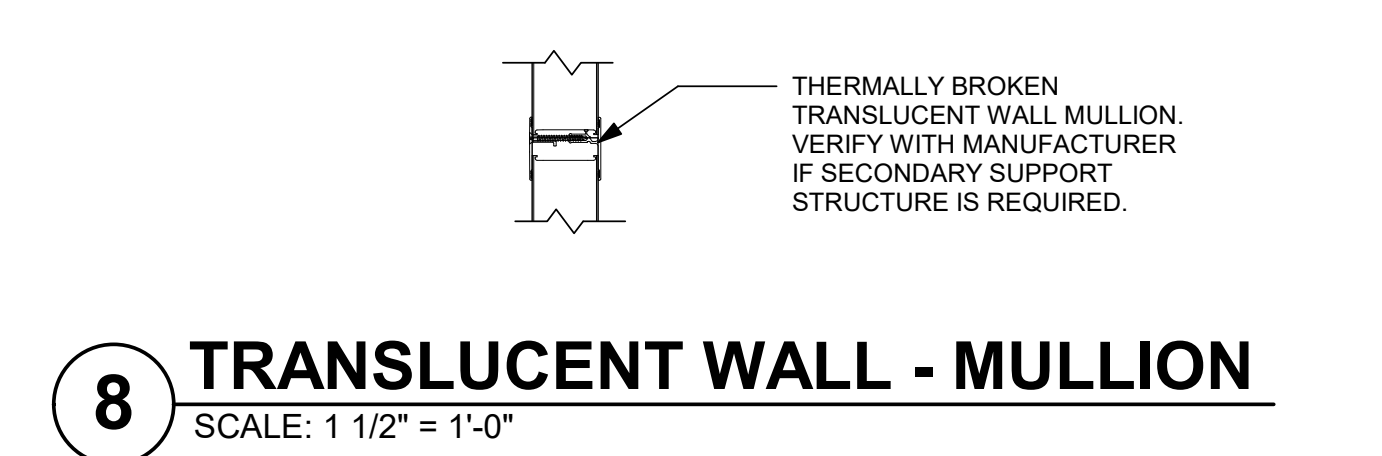




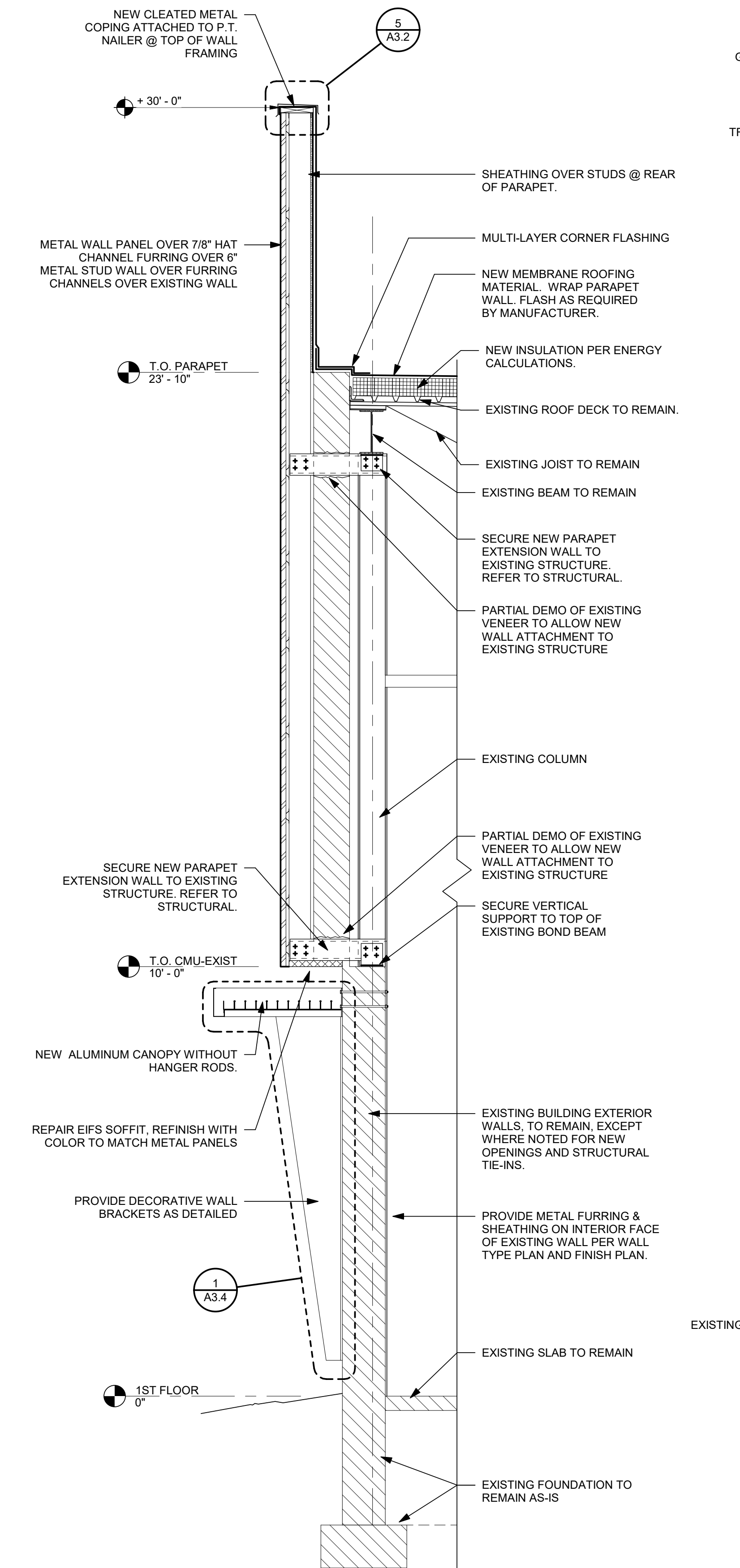
**5 COPING DETAIL**  
SCALE: 1 1/2" = 1'-0"



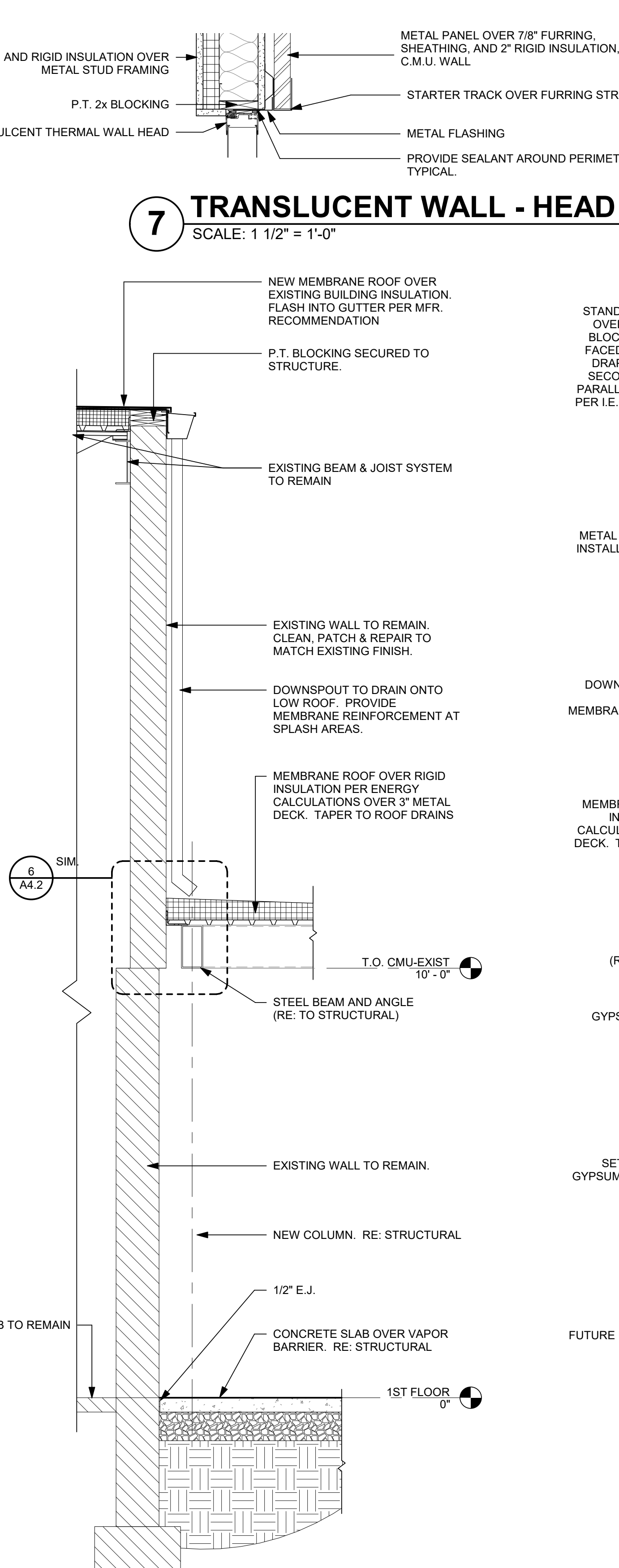
**6 BRICK LEDGE**  
SCALE: 1 1/2" = 1'-0"



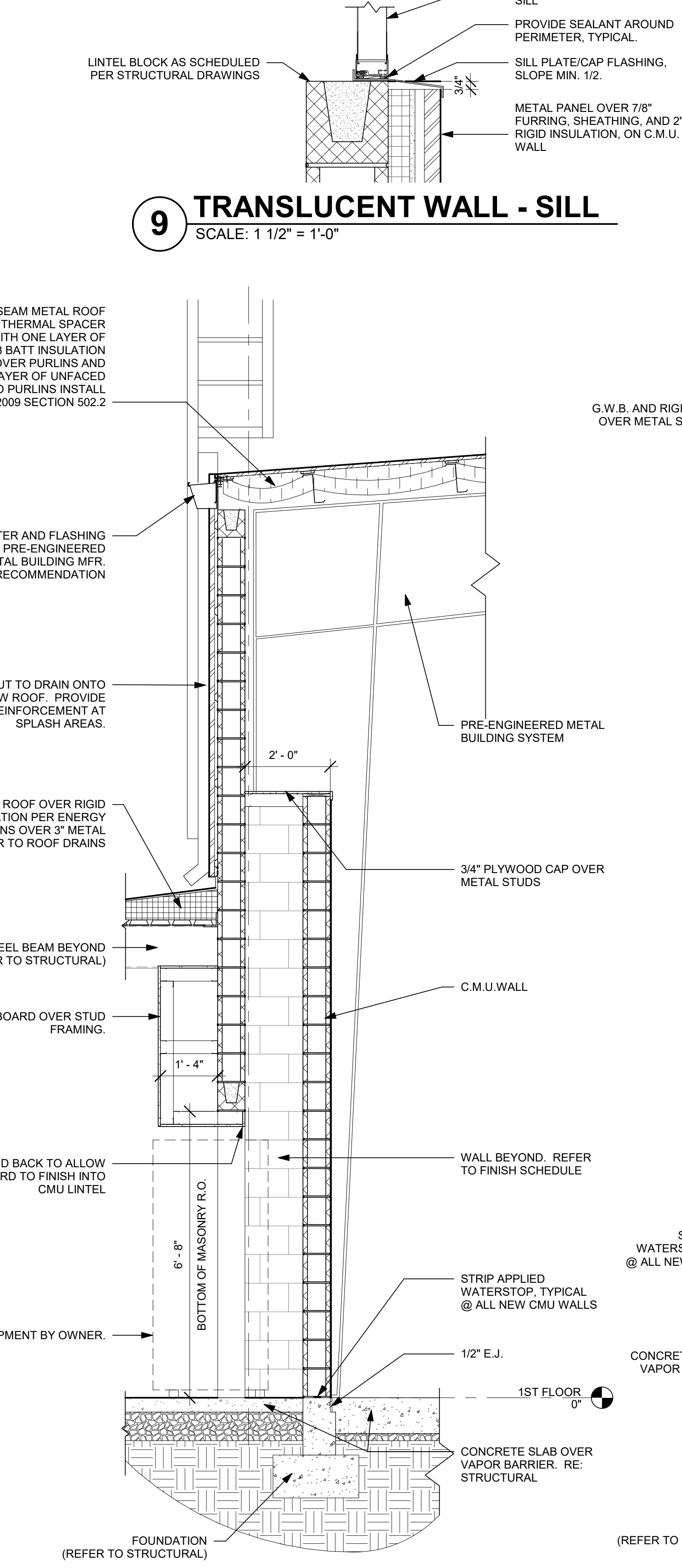
**8 TRANSLUCENT WALL - MULLION**  
SCALE: 1 1/2" = 1'-0"



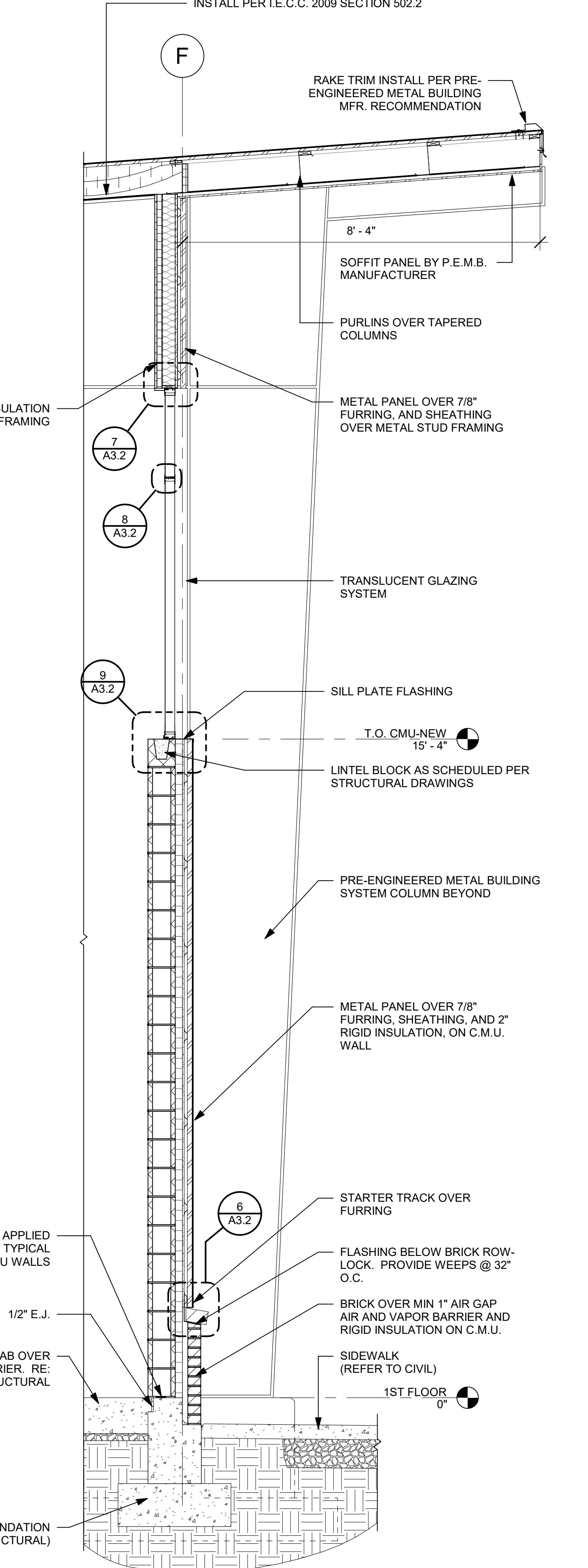
**1 WALL SECTION**  
SCALE: 1/2" = 1'-0"



**2 WALL SECTION**  
SCALE: 1/2" = 1'-0"

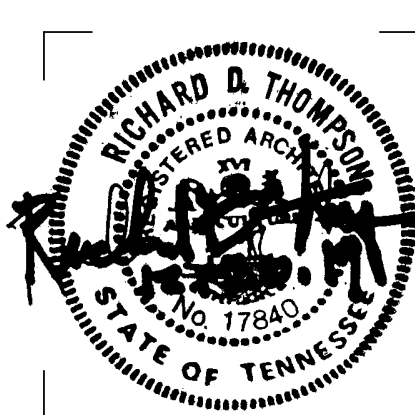


**3 WALL SECTION**  
SCALE: 1/2" = 1'-0"



**4 WALL SECTION**  
SCALE: 1/2" = 1'-0"

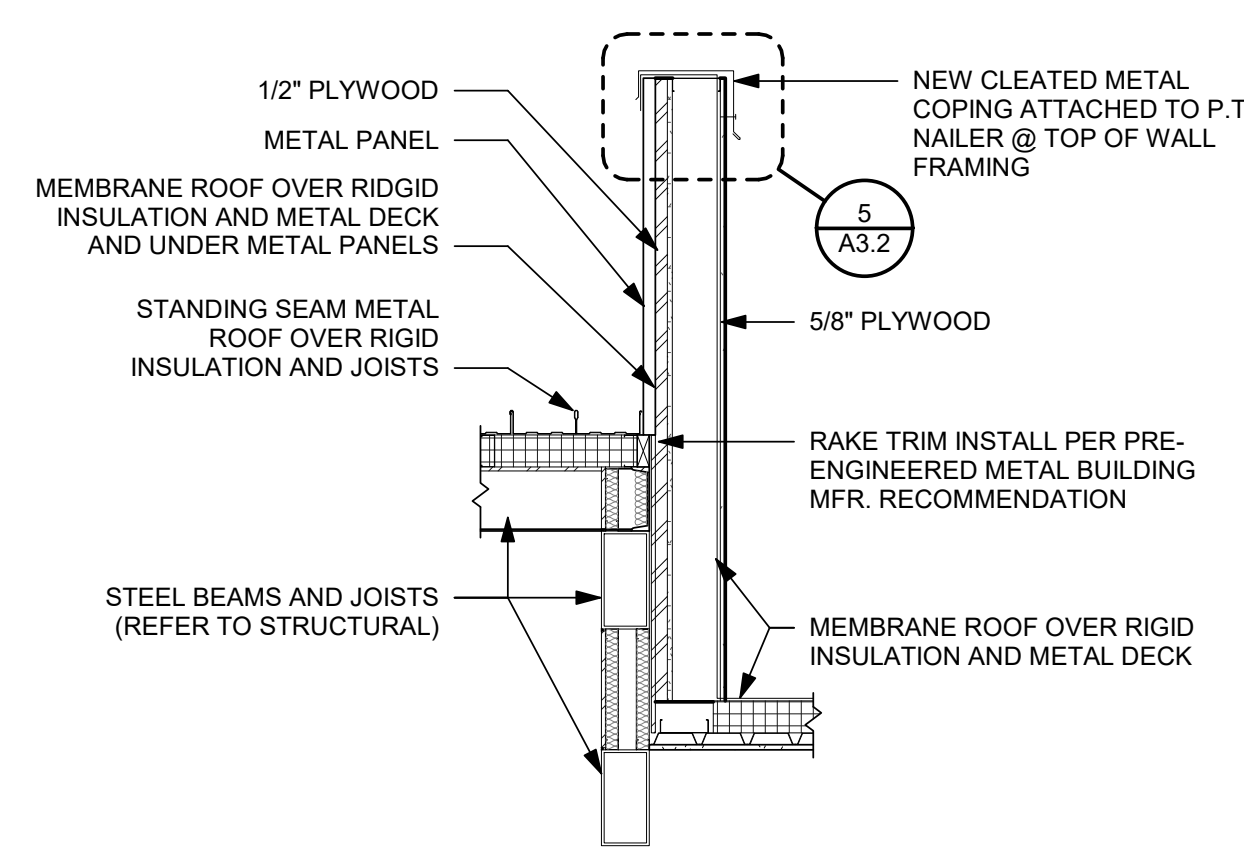
ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.



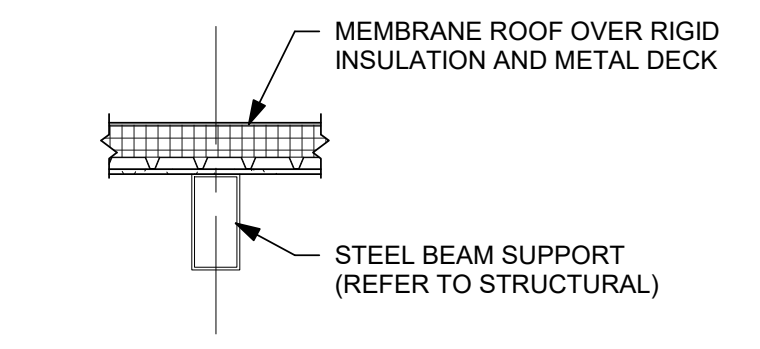
ISSUE DATES  
INITIAL ISSUE 12-20-19  
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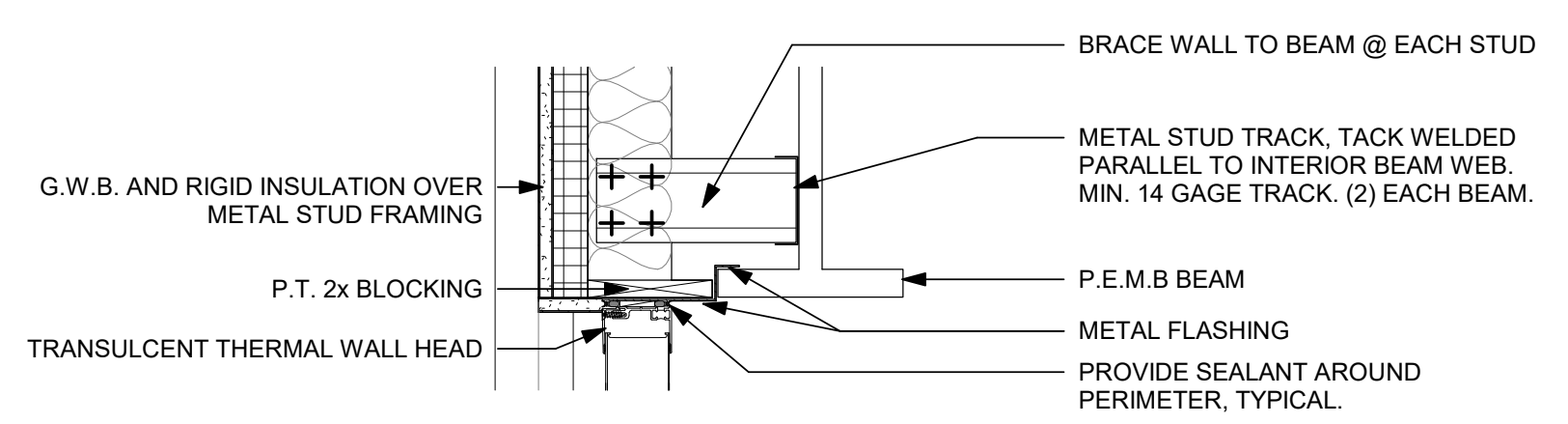




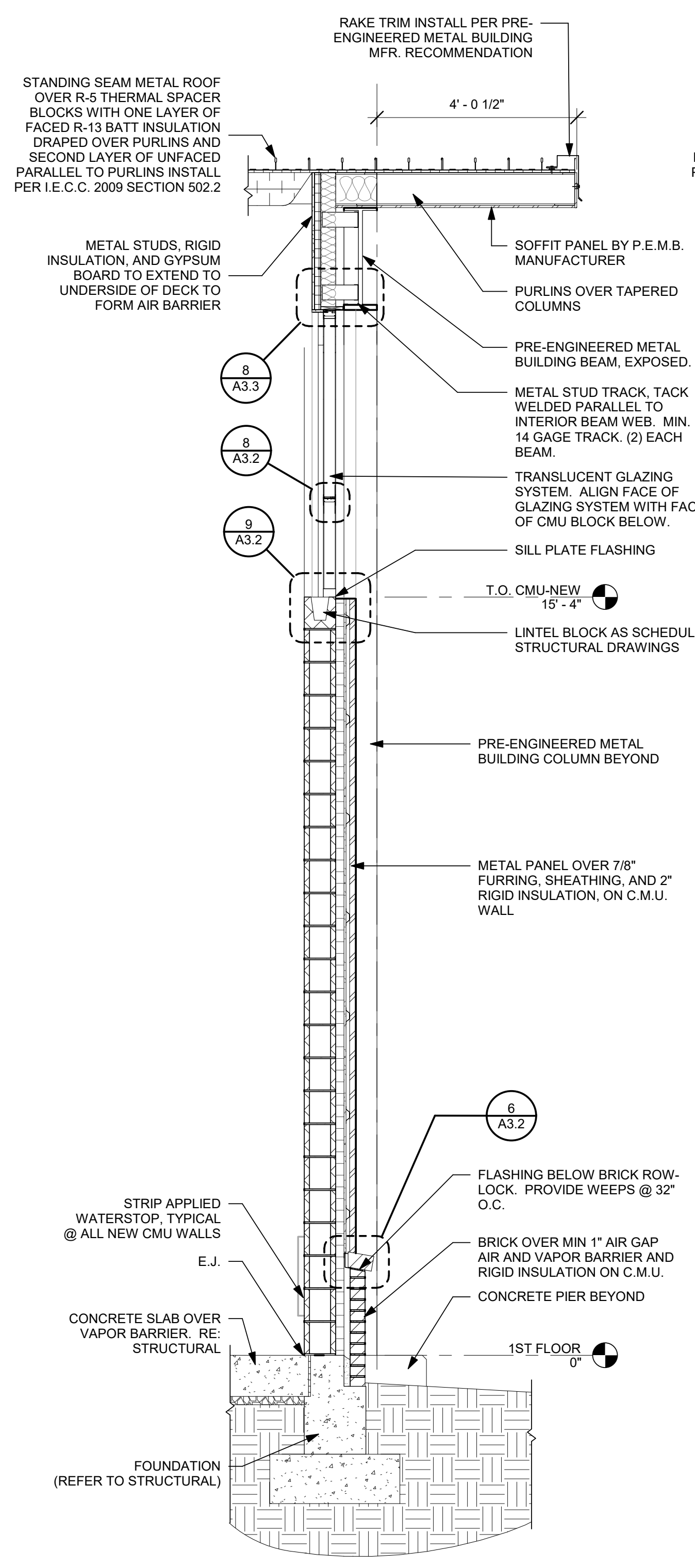
**6 WALL SECTION**  
SCALE: 1/2" = 1'-0"



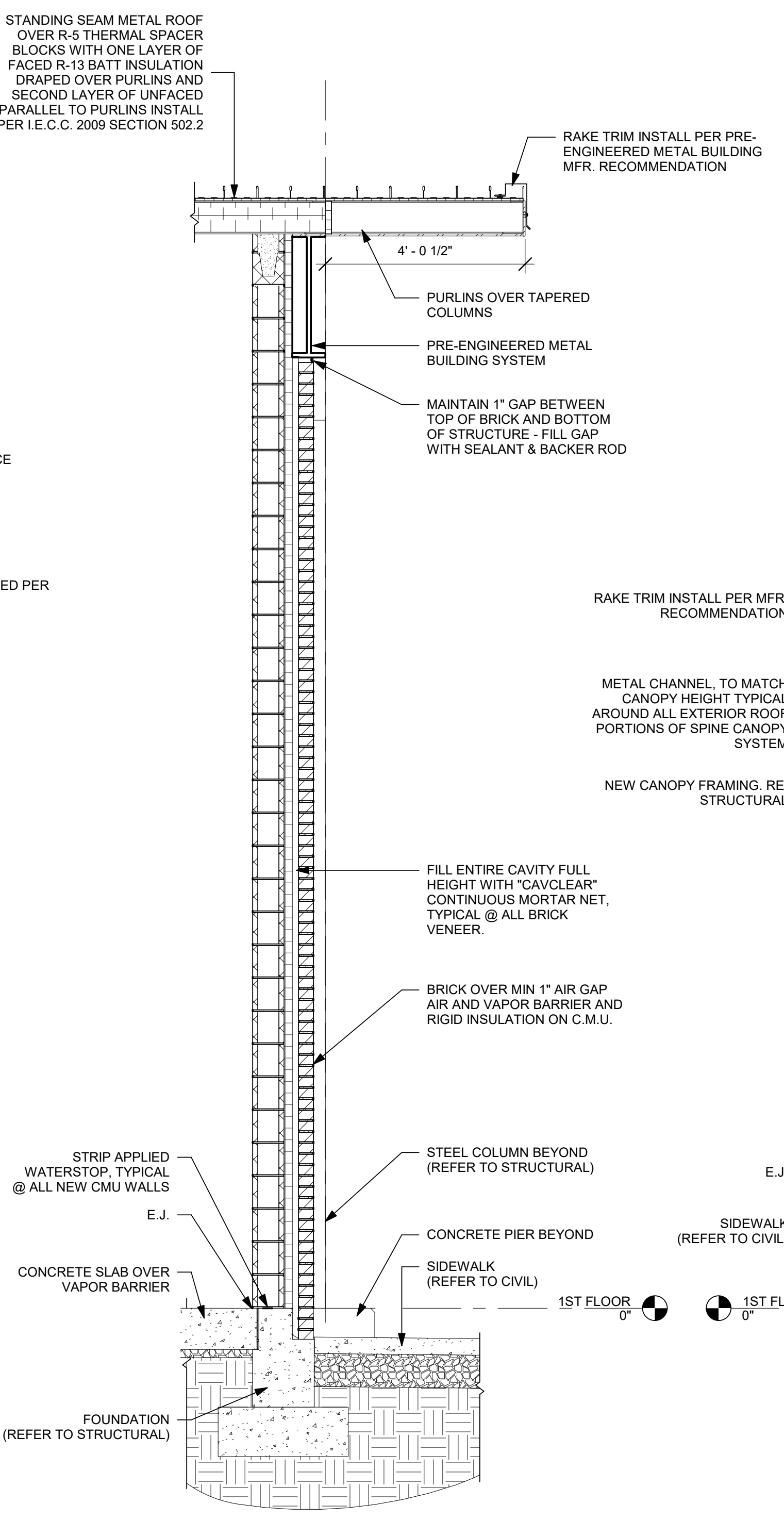
**7 WALL SECTION**  
SCALE: 1/2" = 1'-0"



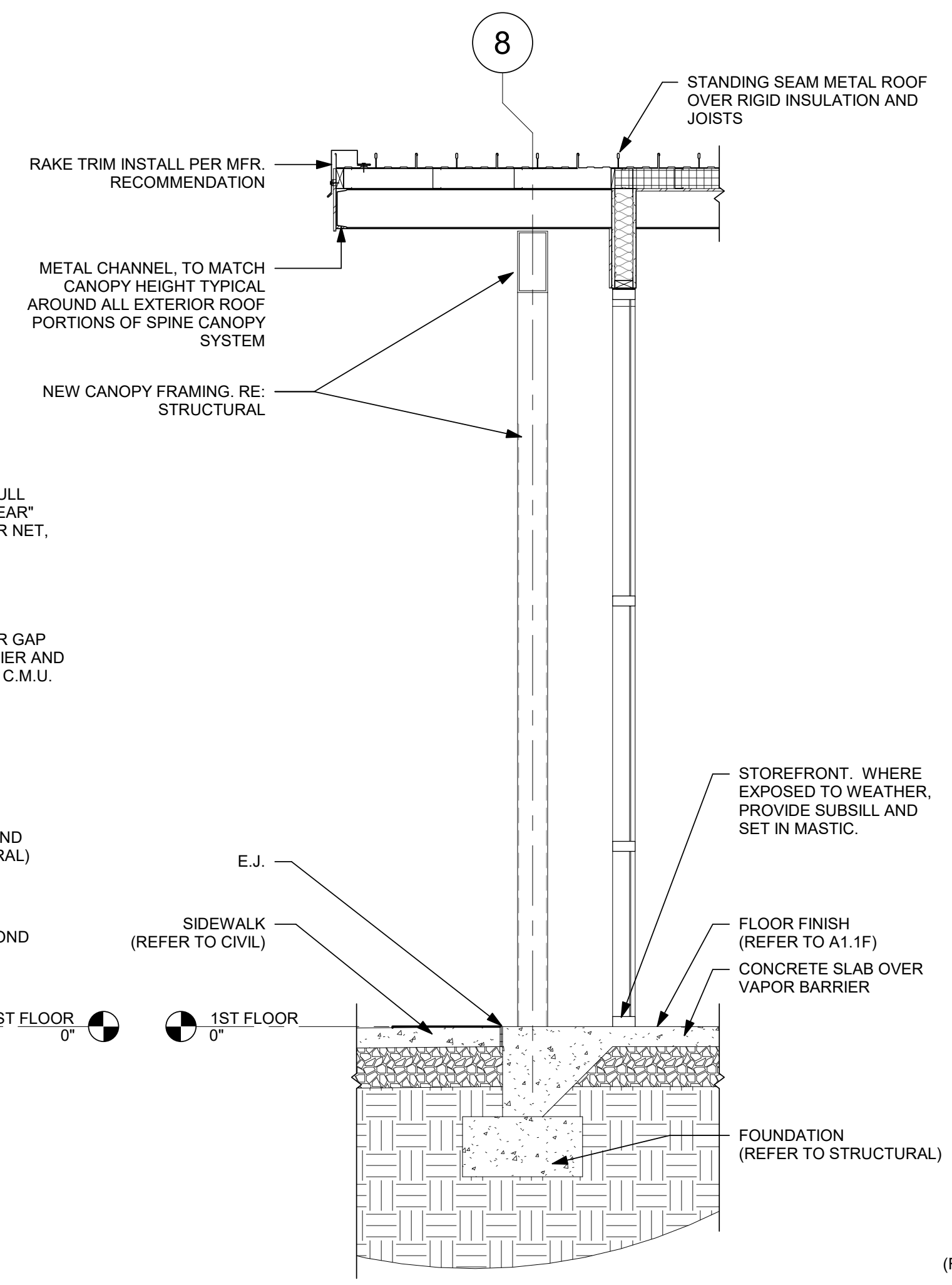
**8 TRANSLUCENT WALL - HEAD ALT.**  
SCALE: 1 1/2" = 1'-0"



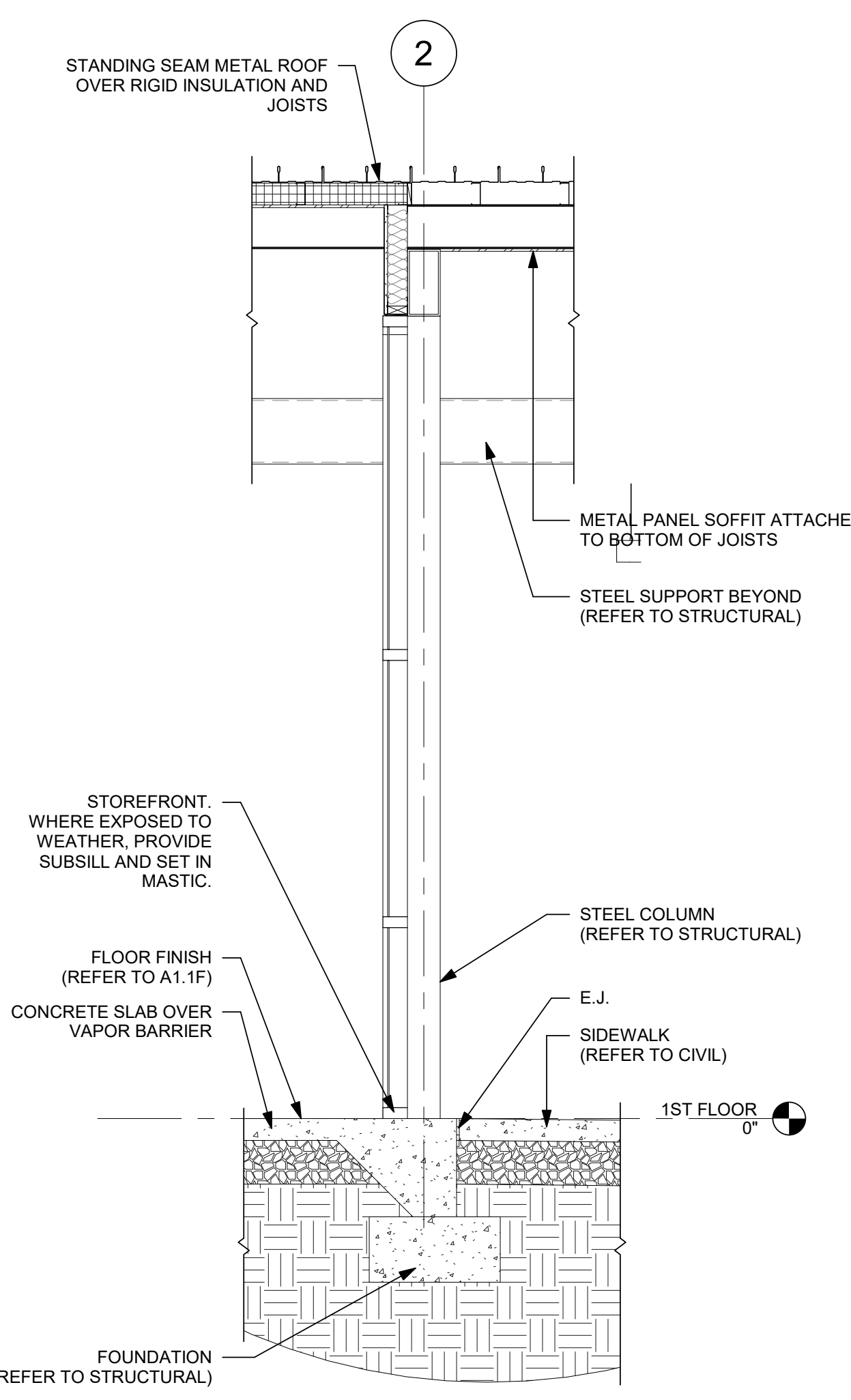
**1 WALL SECTION**  
SCALE: 1/2" = 1'-0"



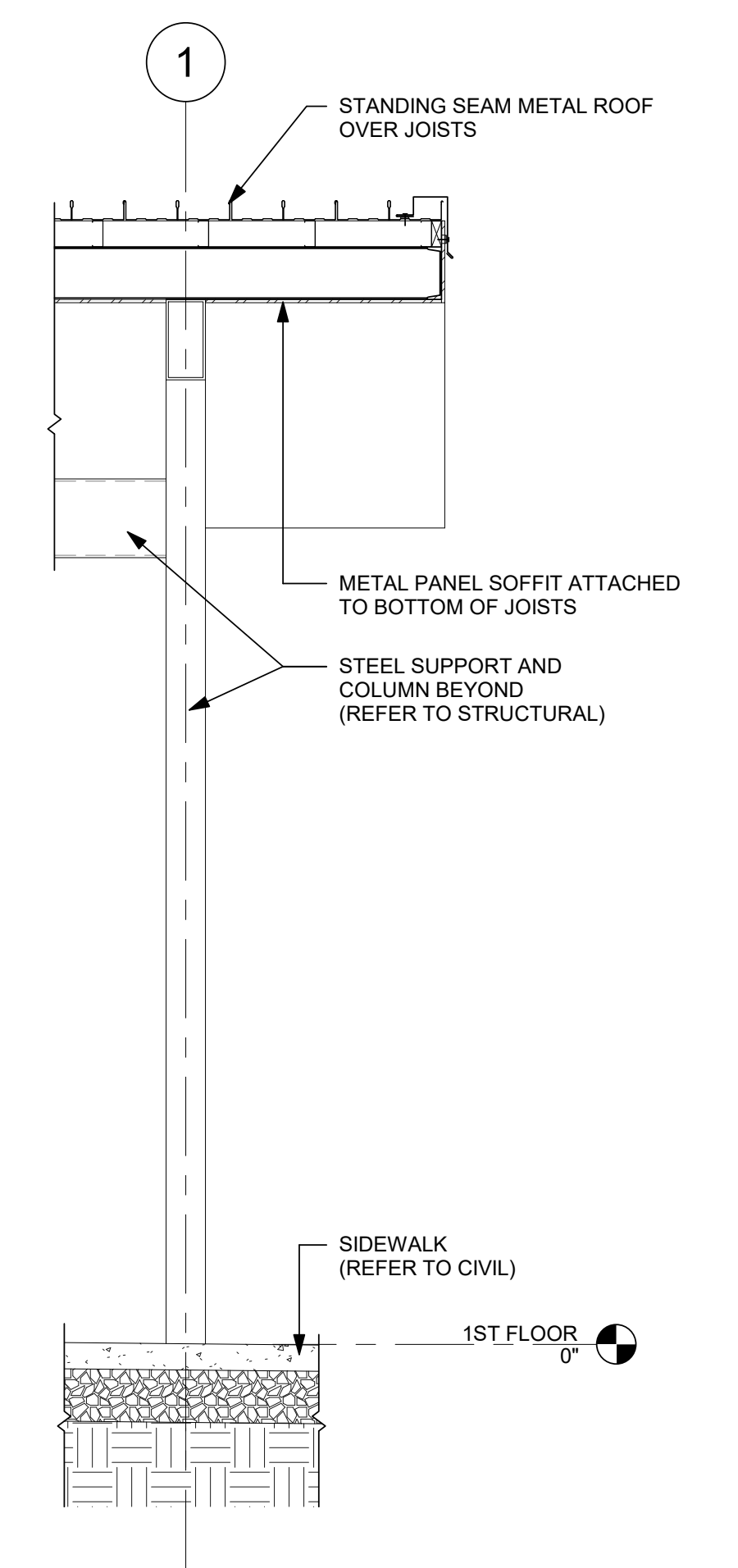
**2 WALL SECTION**  
SCALE: 1/2" = 1'-0"



**3 WALL SECTION**  
SCALE: 1/2" = 1'-0"



**4 WALL SECTION**  
SCALE: 1/2" = 1'-0"



**5 WALL SECTION**  
SCALE: 1/2" = 1'-0"

ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.

**90% REVIEW**  
2019-10-23

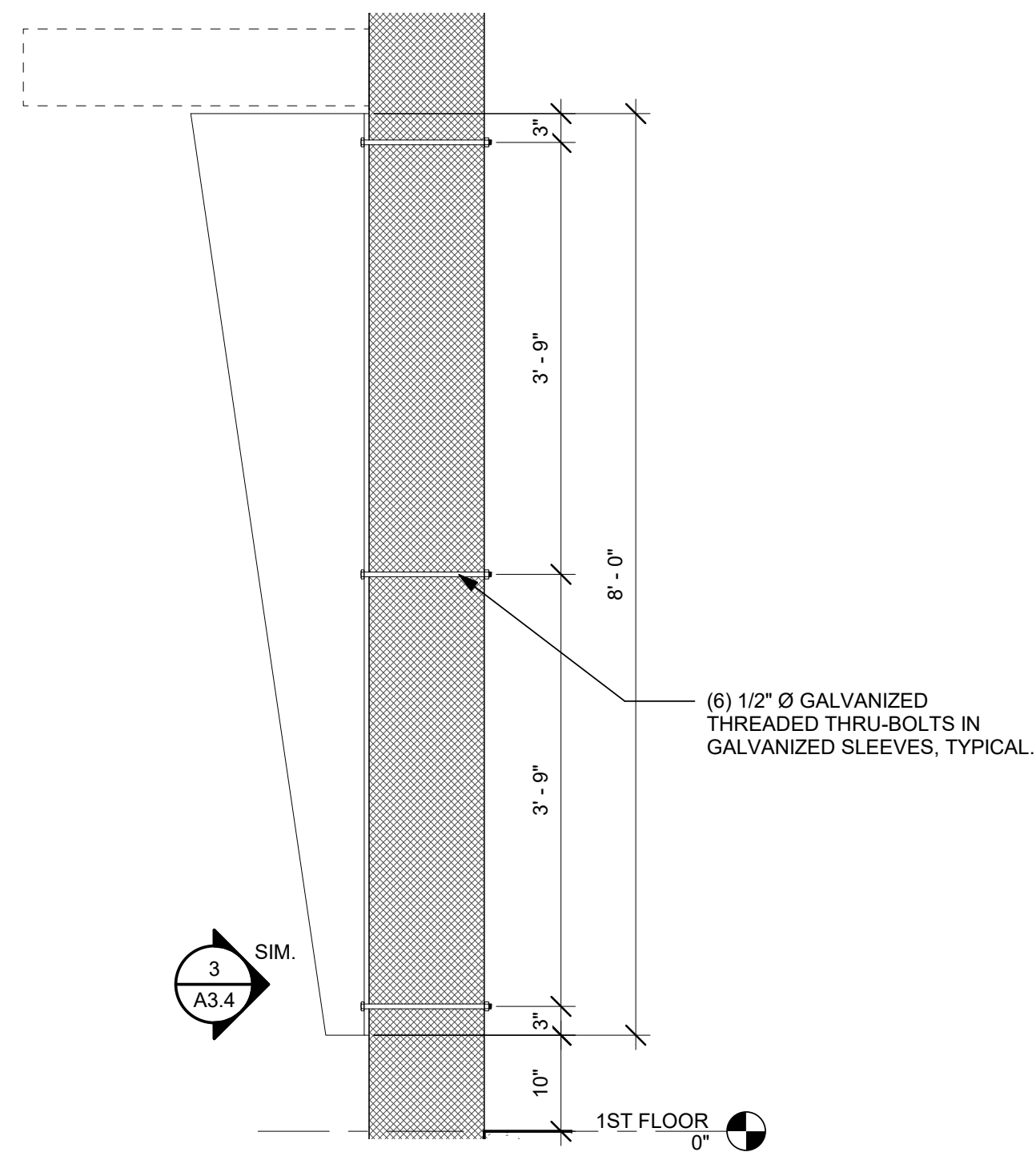


ISSUE DATES  
INITIAL ISSUE 12-20-19  
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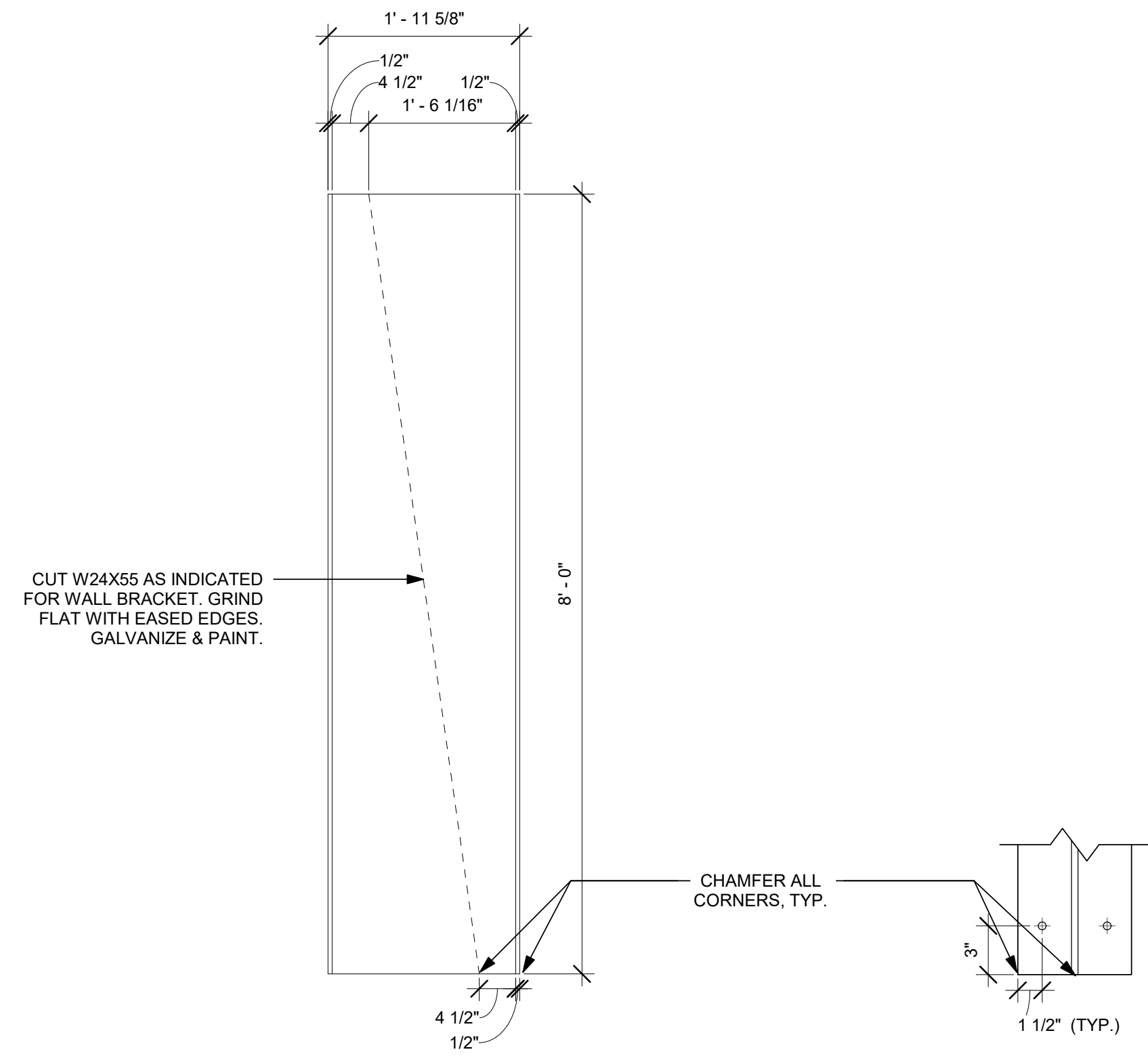
JOB NO. 18-072 D'WN Author CK'D Checker

**A3.3**  
EXTERIOR WALL SECTIONS

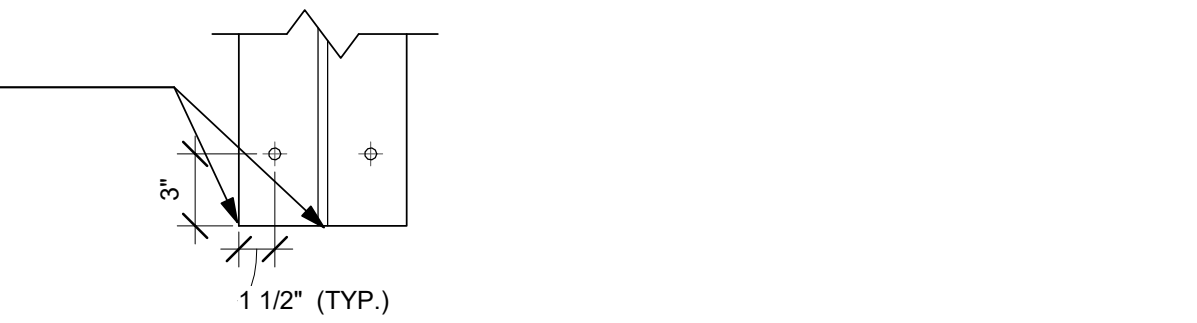




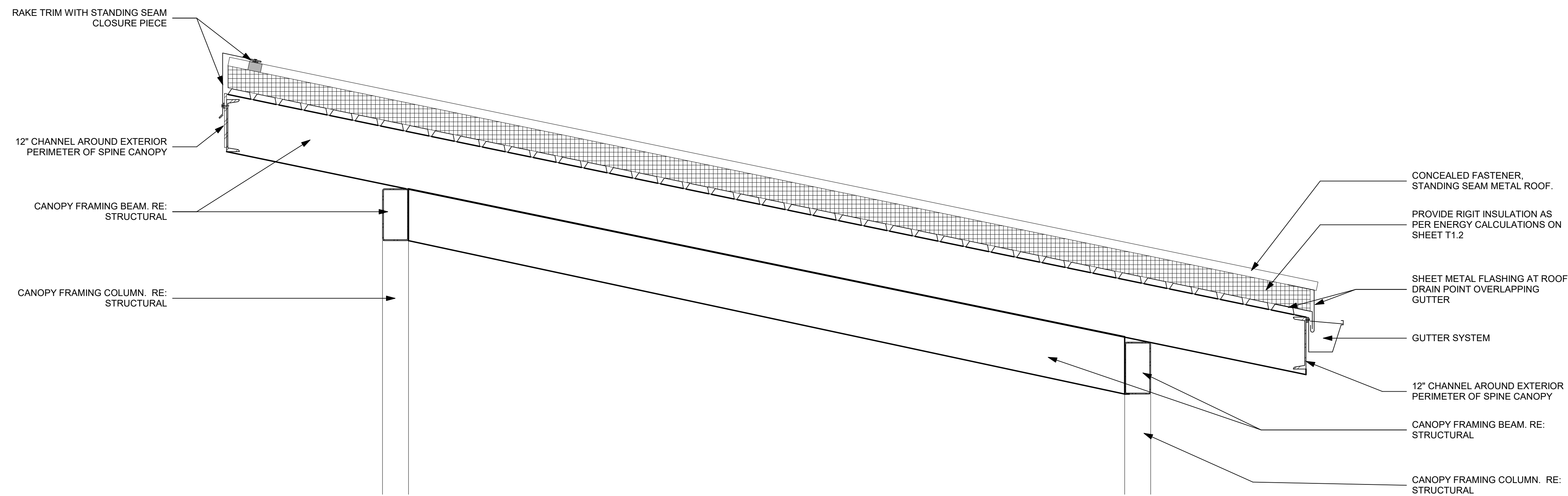
**1 WALL BRACKET MOUNTING**  
SCALE: 3/4" = 1'-0"



**2 BRACKET CUT DETAIL**  
SCALE: 3/4" = 1'-0"



**3 BRACKET BOTTOM ELEVATION**  
SCALE: 1 1/2" = 1'-0"



**4 CANOPY SECTION**  
SCALE: 3/4" = 1'-0"



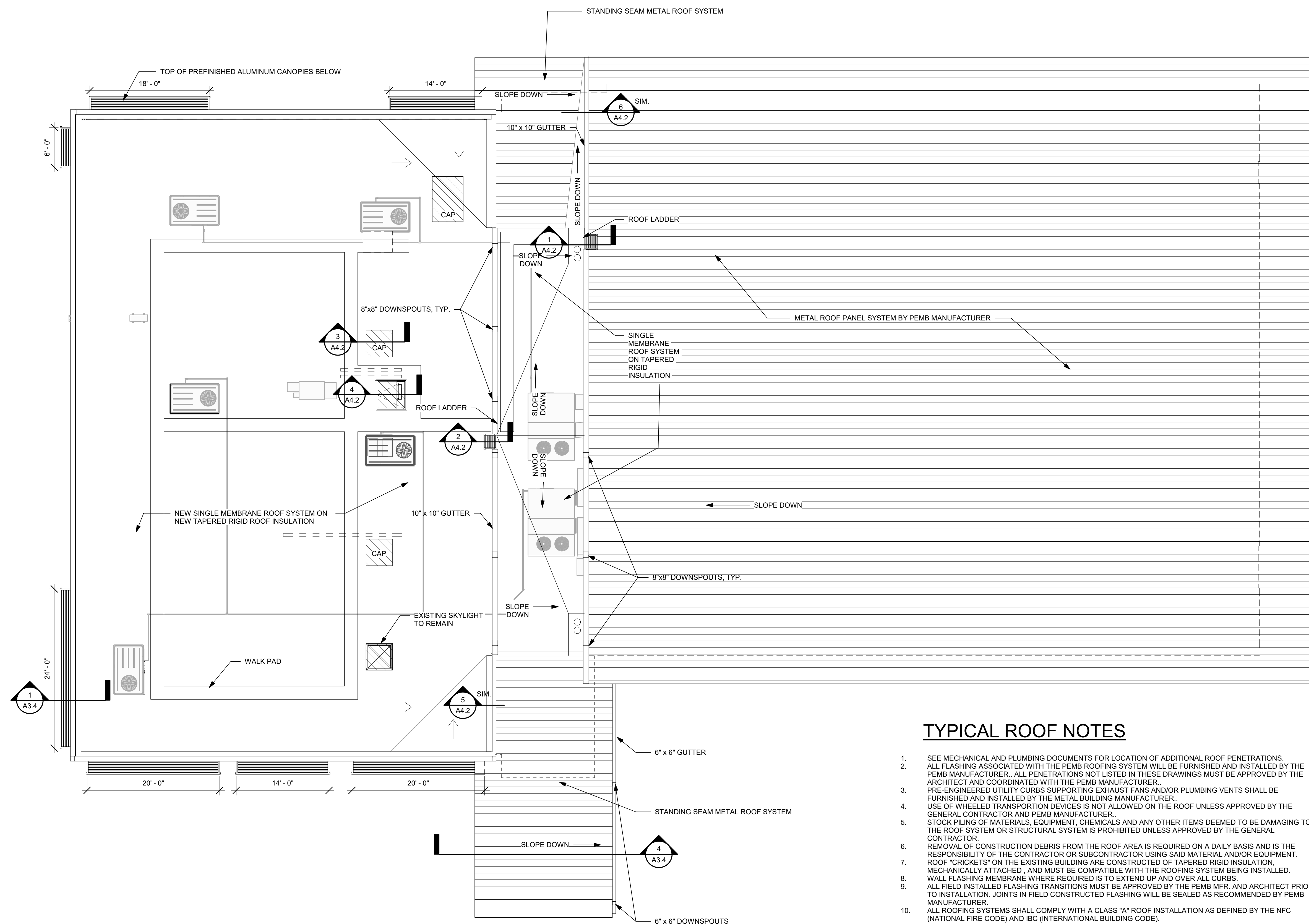
ISSUE DATES	
INITIAL ISSUE	12-20-19
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**A3.4**  
EXTERIOR WALL  
SECTIONS





**1 ROOF PLAN**  
SCALE: 1/8" = 1'-0"

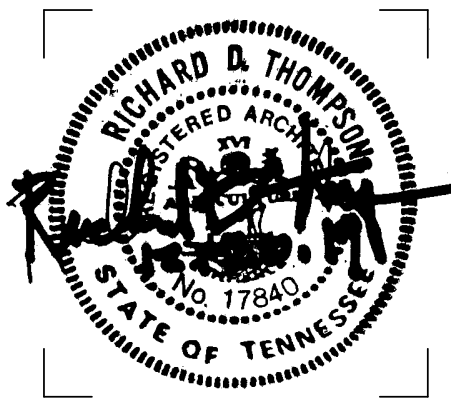


**TYPICAL ROOF NOTES**

1. SEE MECHANICAL AND PLUMBING DOCUMENTS FOR LOCATION OF ADDITIONAL ROOF PENETRATIONS.
2. ALL FLASHING ASSOCIATED WITH THE PEMB ROOFING SYSTEM WILL BE FURNISHED AND INSTALLED BY THE PEMB MANUFACTURER. ALL PENETRATIONS NOT LISTED IN THESE DRAWINGS MUST BE APPROVED BY THE ARCHITECT AND COORDINATED WITH THE PEMB MANUFACTURER.
3. PRE-ENGINEERED UTILITY CURBS SUPPORTING EXHAUST FANS AND/OR PLUMBING VENTS SHALL BE FURNISHED AND INSTALLED BY THE METAL BUILDING MANUFACTURER.
4. USE OF WHEELED TRANSPORTATION DEVICES IS NOT ALLOWED ON THE ROOF UNLESS APPROVED BY THE GENERAL CONTRACTOR AND PEMB MANUFACTURER.
5. STOCK PILING OF MATERIALS, EQUIPMENT, CHEMICALS AND ANY OTHER ITEMS DEEMED TO BE DAMAGING TO THE ROOF SYSTEM OR STRUCTURAL SYSTEM IS PROHIBITED UNLESS APPROVED BY THE GENERAL CONTRACTOR.
6. REMOVAL OF CONSTRUCTION DEBRIS FROM THE ROOF AREA IS REQUIRED ON A DAILY BASIS AND IS THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR USING SAID MATERIAL AND/OR EQUIPMENT.
7. ROOF "CRICKETS" ON THE EXISTING BUILDING ARE CONSTRUCTED OF TAPERED RIGID INSULATION MECHANICALLY ATTACHED, AND MUST BE COMPATIBLE WITH THE ROOFING SYSTEM BEING INSTALLED.
8. WALL FLASHING MEMBRANE WHERE REQUIRED IS TO EXTEND UP AND OVER ALL CURBS.
9. ALL FIELD INSTALLED FLASHING TRANSITIONS MUST BE APPROVED BY THE PEMB MFR. AND ARCHITECT PRIOR TO INSTALLATION. JOINTS IN FIELD CONSTRUCTED FLASHING WILL BE SEALED AS RECOMMENDED BY PEMB MANUFACTURER.
10. ALL ROOFING SYSTEMS SHALL COMPLY WITH A CLASS "A" ROOF INSTALLATION AS DEFINED BY THE NFC (NATIONAL FIRE CODE) AND IBC (INTERNATIONAL BUILDING CODE).

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

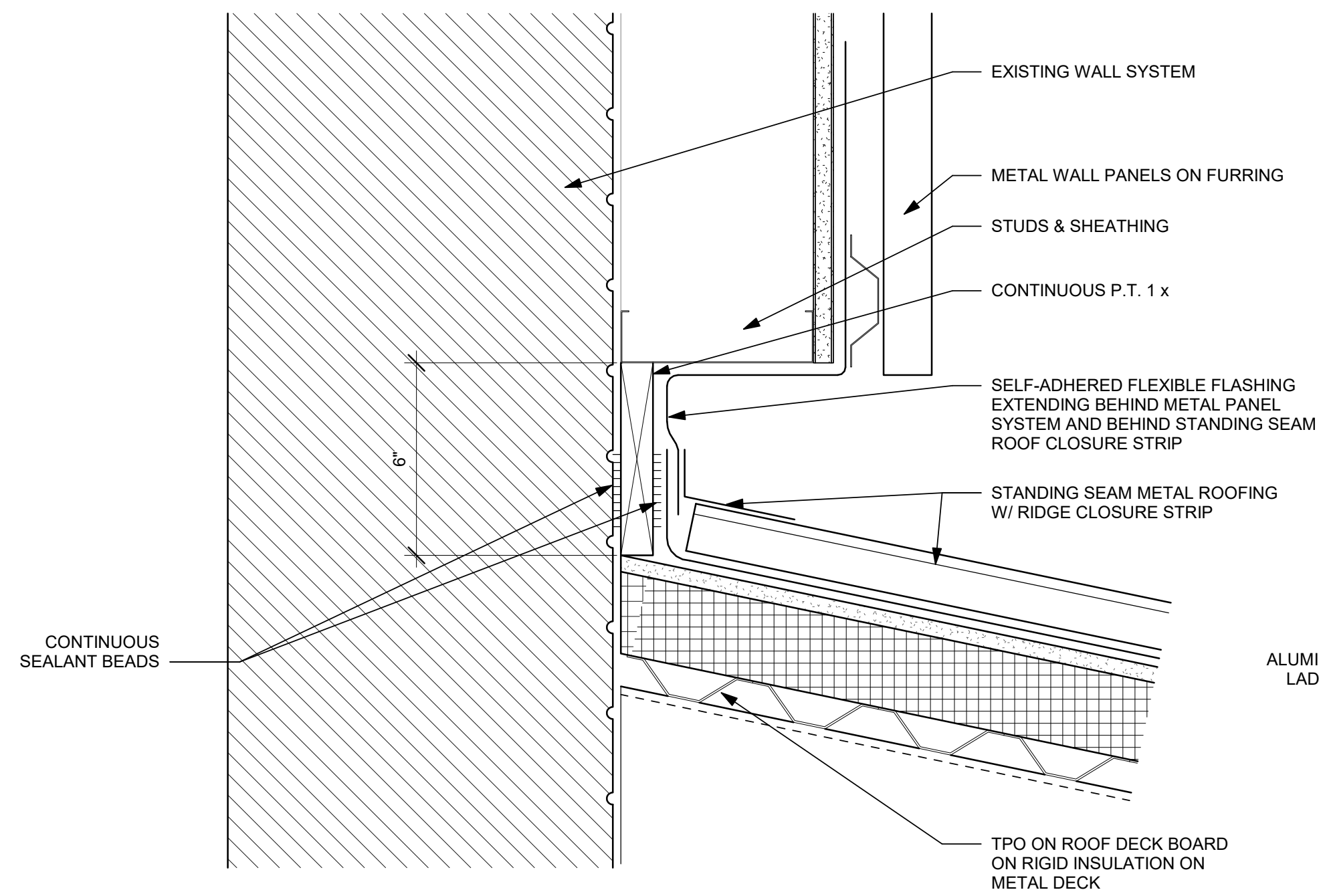


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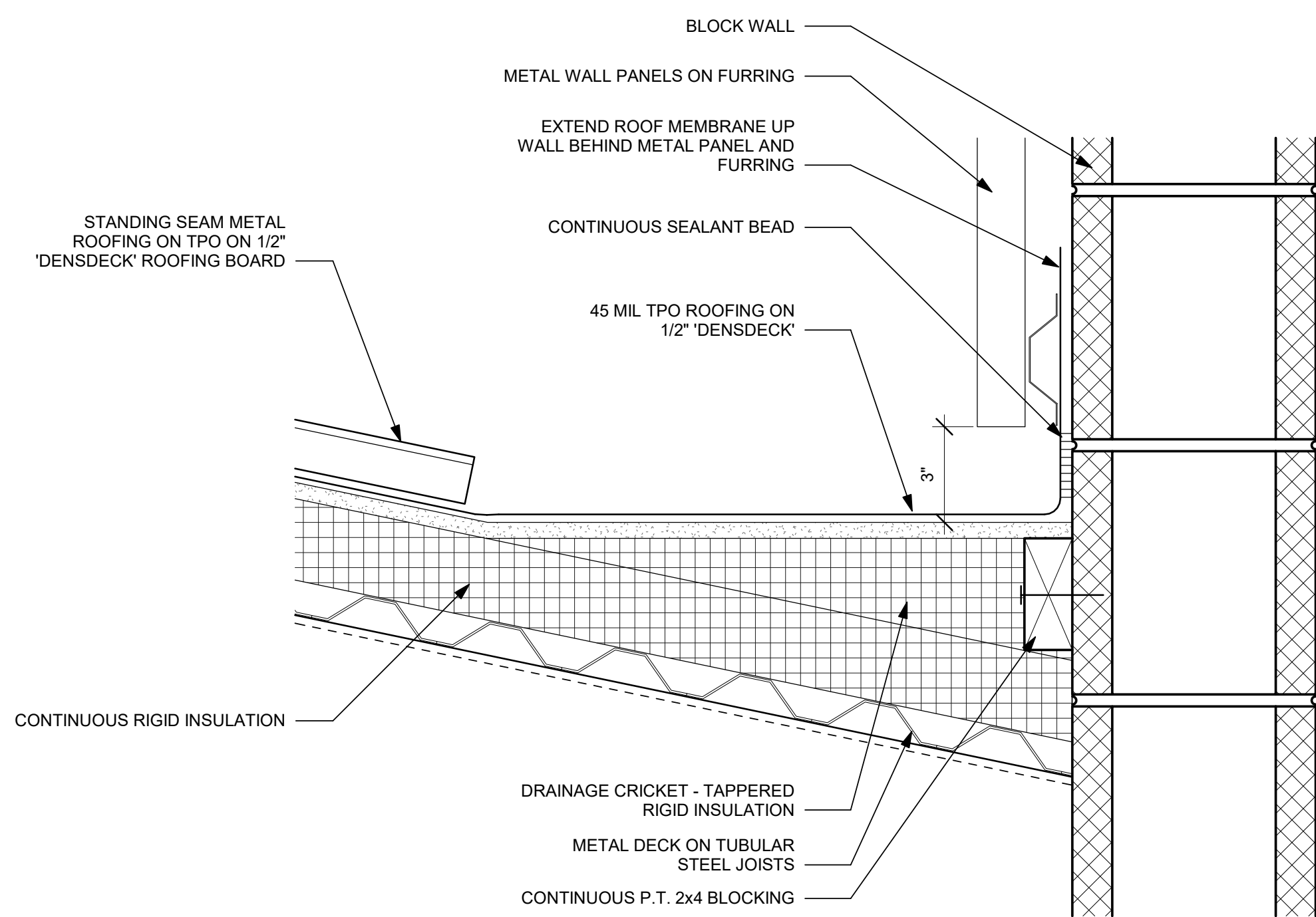
JOB NO.	D'WN	CK'D
18-072	Author	Checker

**A4.1**  
ROOF PLAN

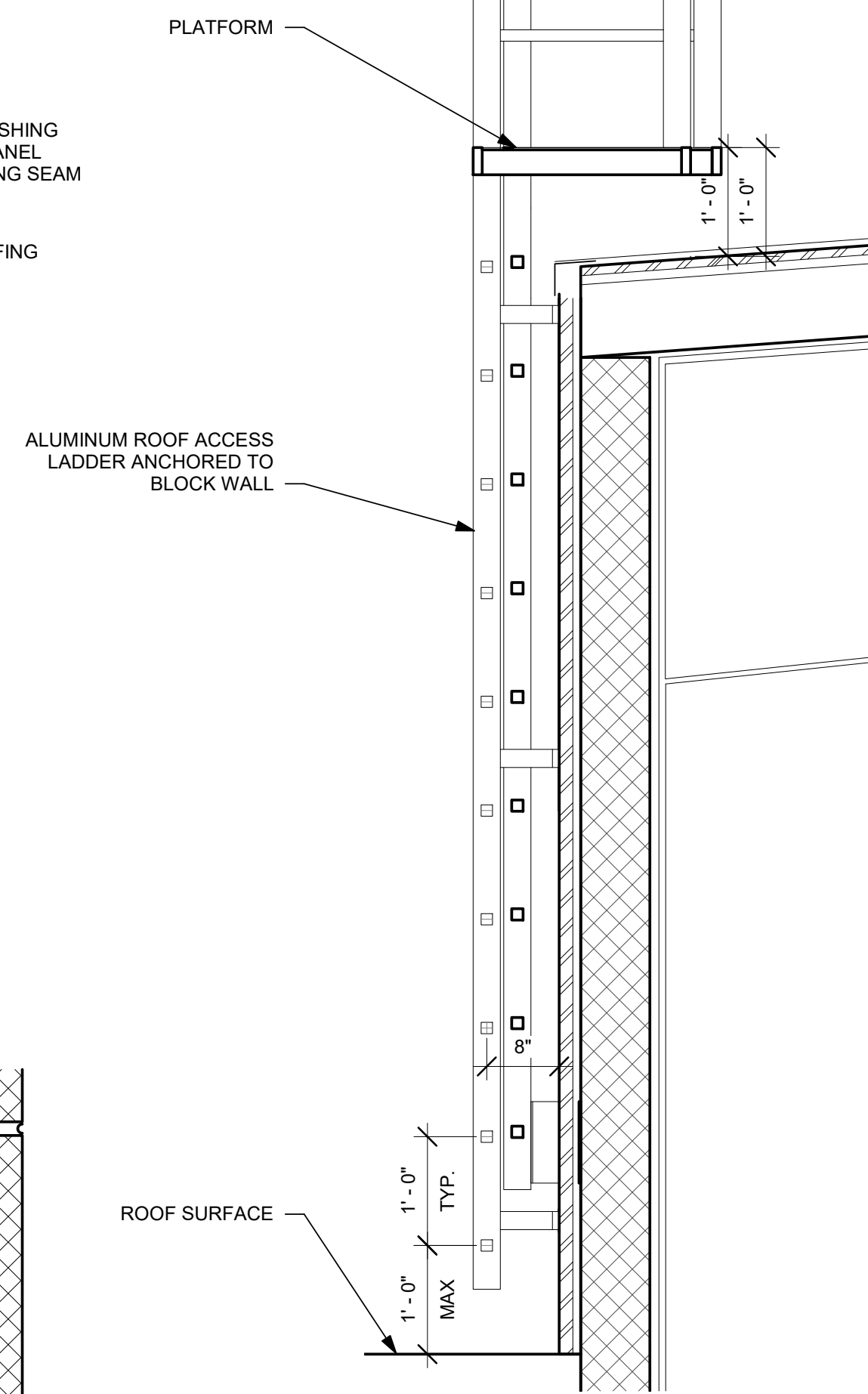




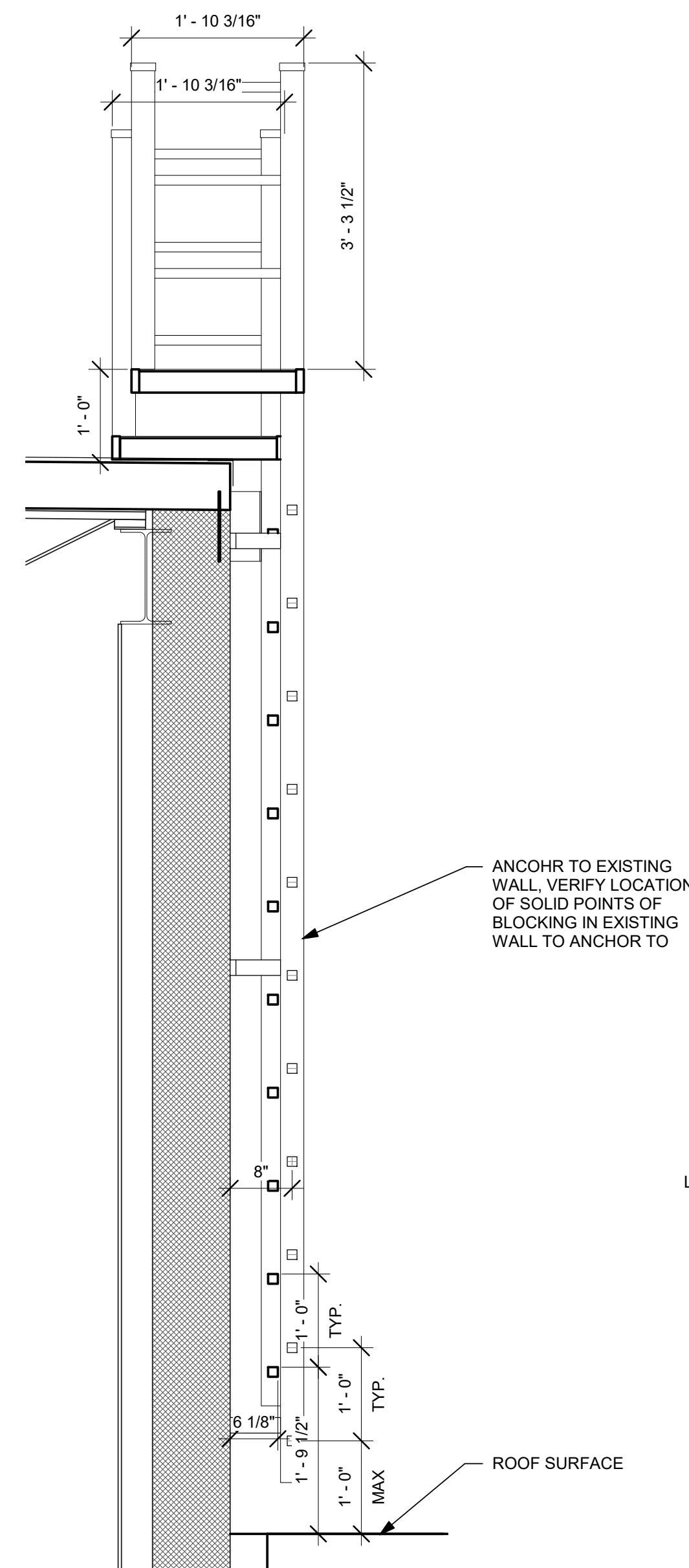
**5 ROOF SECTION**  
SCALE: 3" = 1'-0"



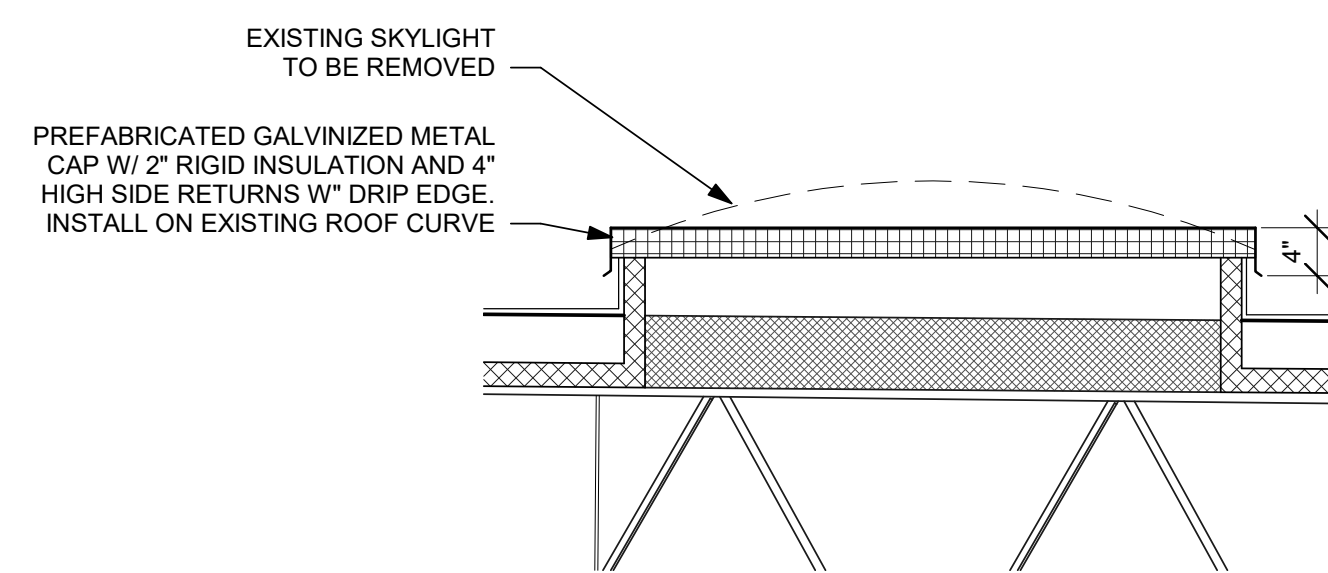
**6 ROOF SECTION**  
SCALE: 3" = 1'-0"



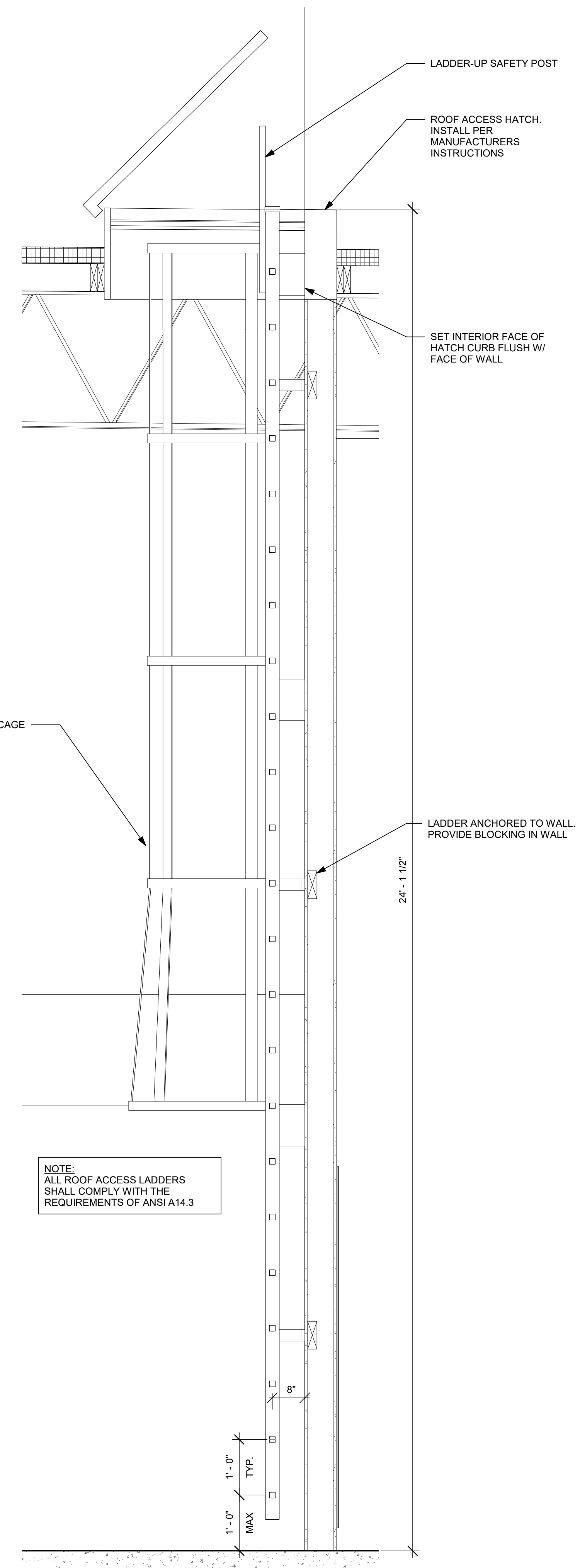
**1 ROOF ACCESS LADDER**  
SCALE: 3/4" = 1'-0"



**2 ROOF ACCESS LADDER**  
SCALE: 3/4" = 1'-0"



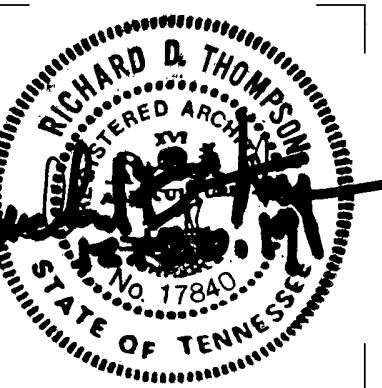
**3 CAPPED SKYLIGHT DETAIL**  
SCALE: 3/4" = 1'-0"



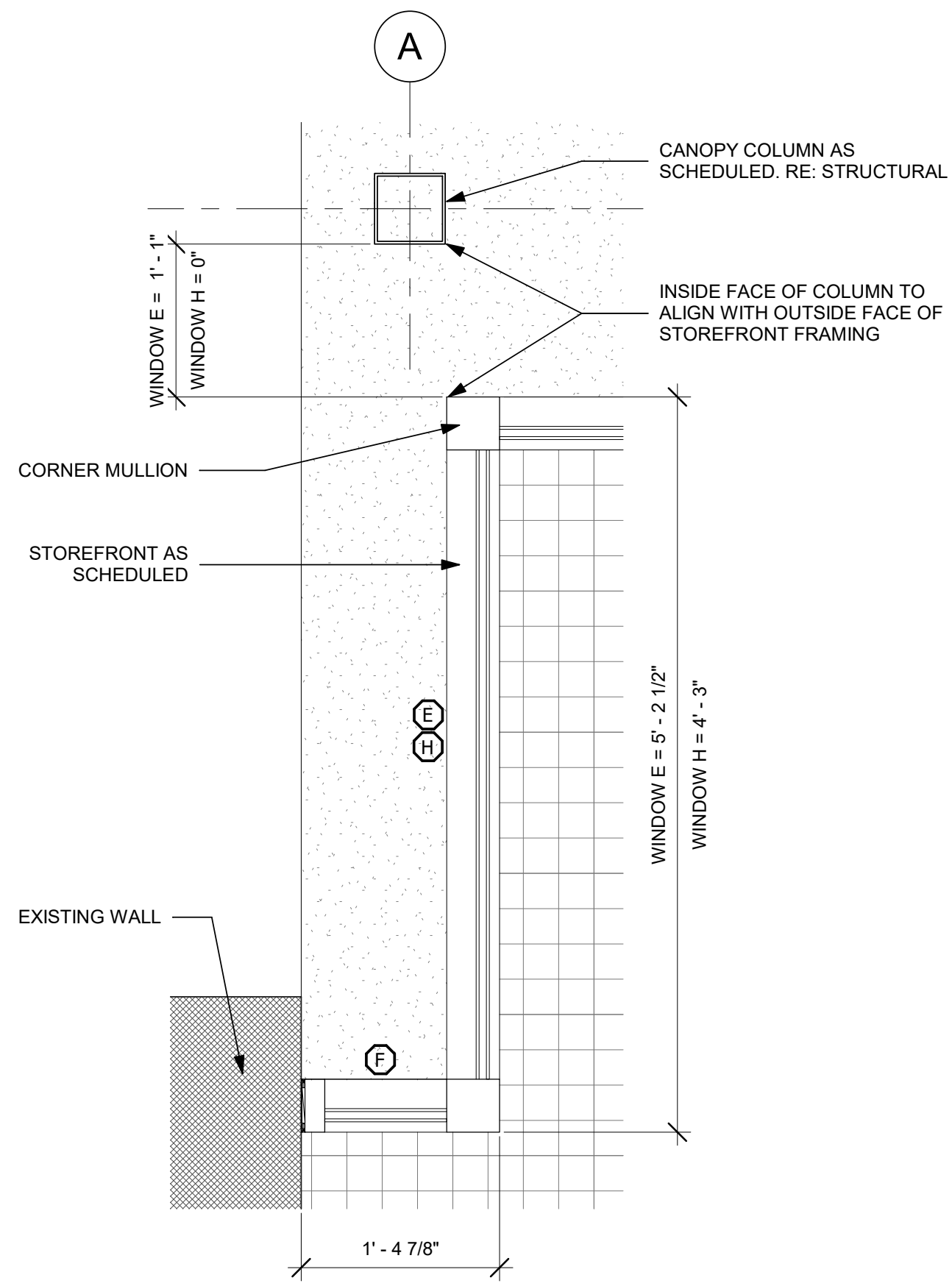
NOTE:  
ALL ROOF ACCESS LADDERS  
SHALL COMPLY WITH THE  
REQUIREMENTS OF ANSI A14.3

**4 ROOF HATCH LADDER SECTION**  
SCALE: 3/4" = 1'-0"

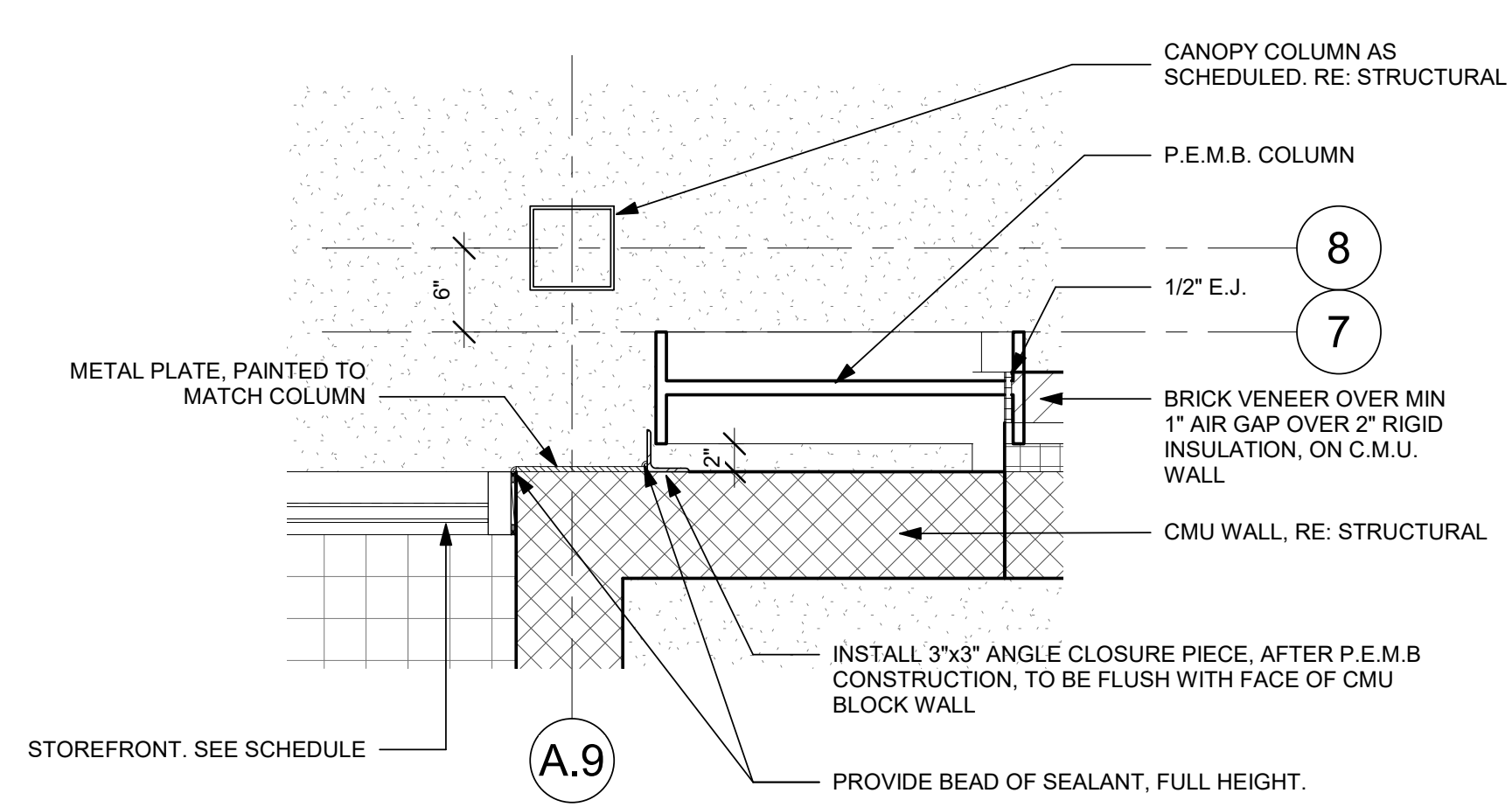
ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.



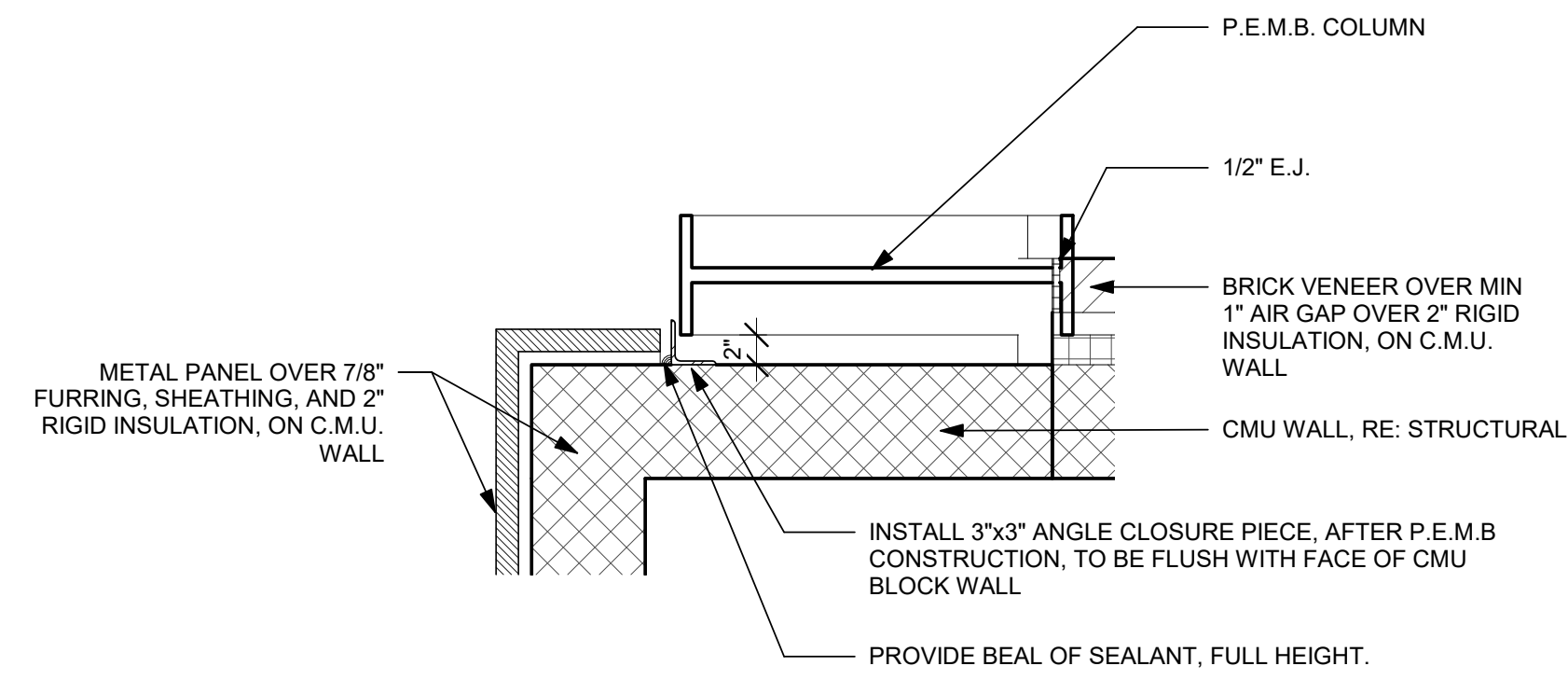




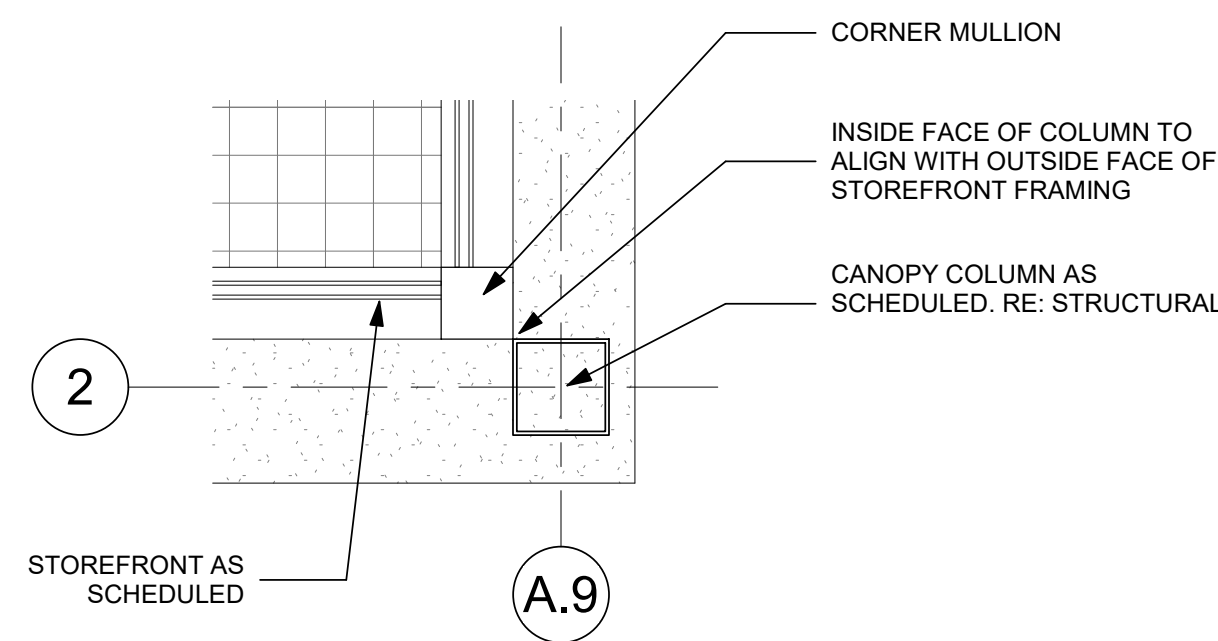
**1 PLAN DETAIL**  
SCALE: 1" = 1'-0"



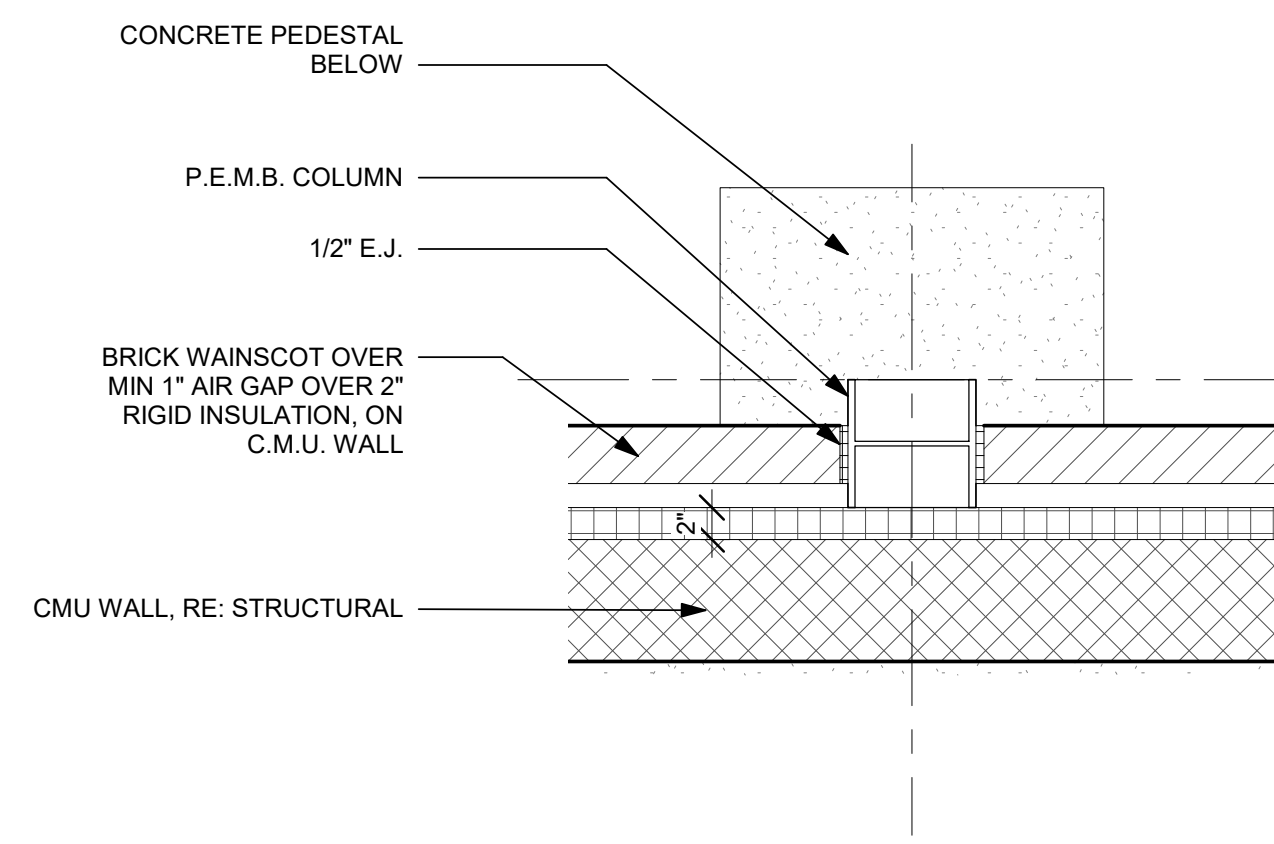
**2A PLAN DETAIL - LOW**  
SCALE: 1" = 1'-0"



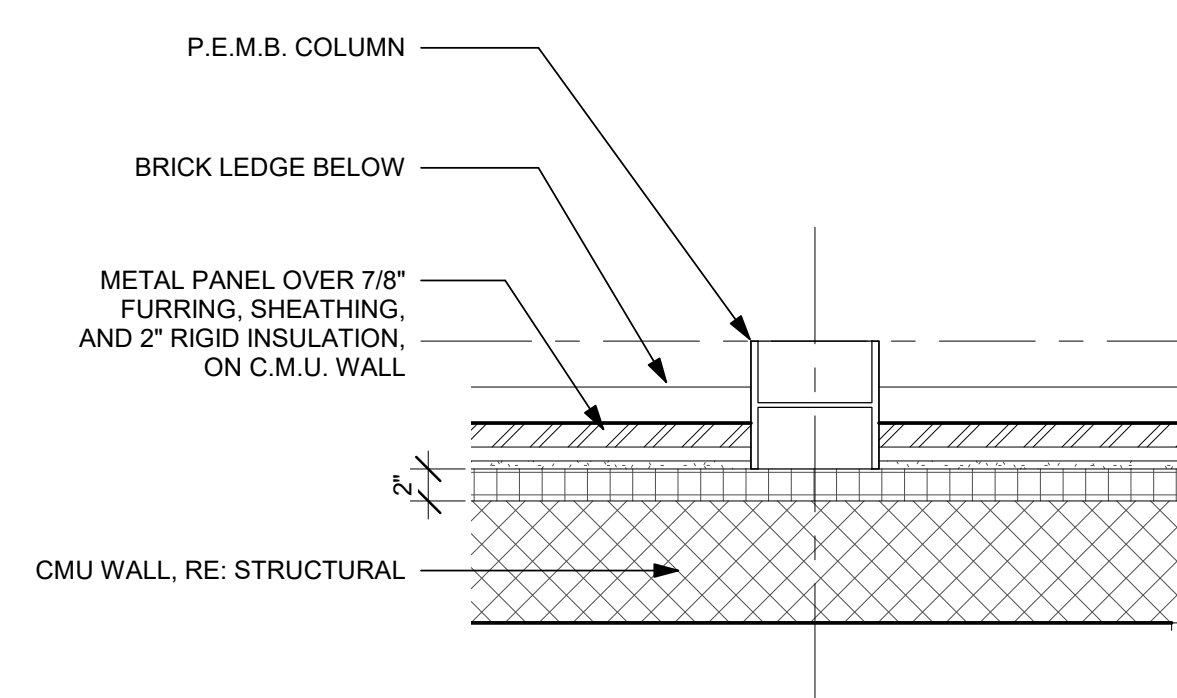
**2B PLAN DETAIL - HIGH**  
SCALE: 1" = 1'-0"



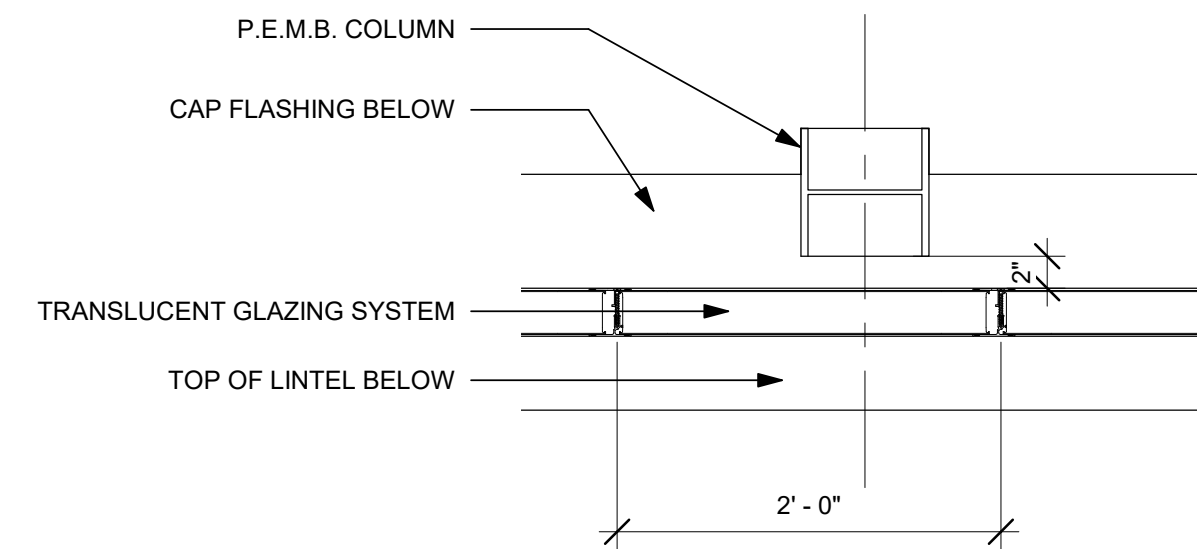
**5 PLAN DETAIL**  
SCALE: 1" = 1'-0"



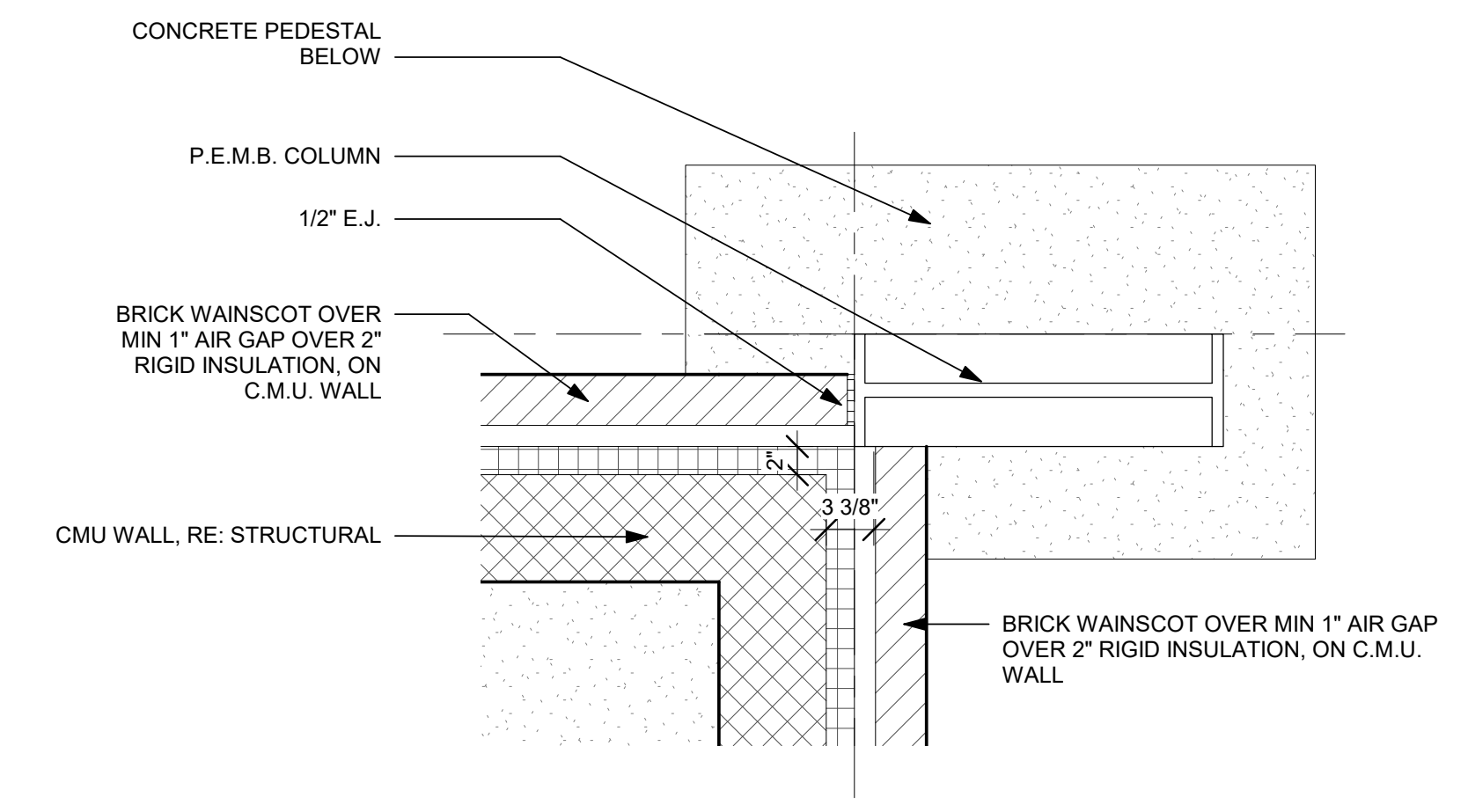
**3A PLAN DETAIL - LOW**  
SCALE: 1" = 1'-0"



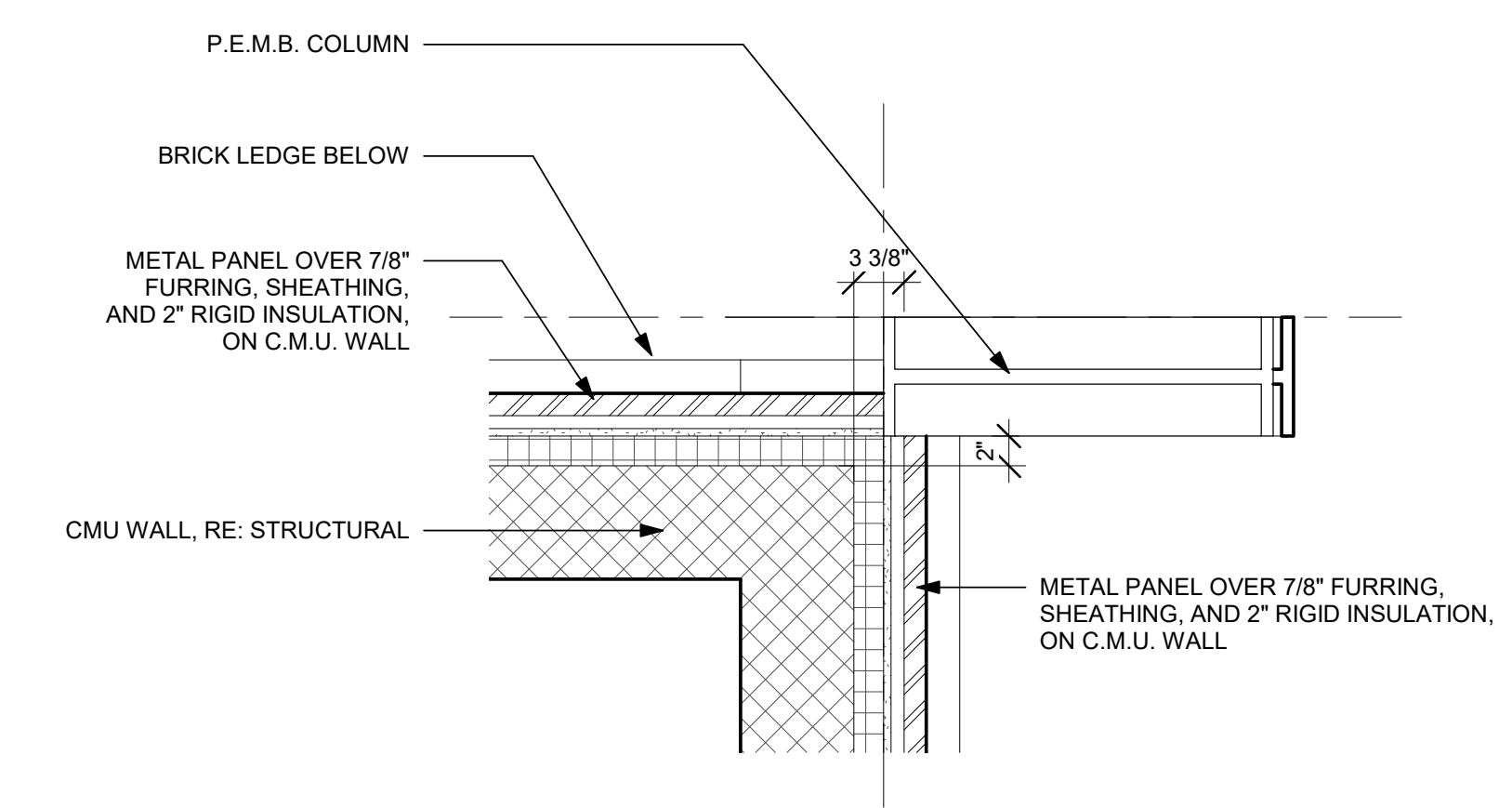
**3B PLAN DETAIL - MID**  
SCALE: 1" = 1'-0"



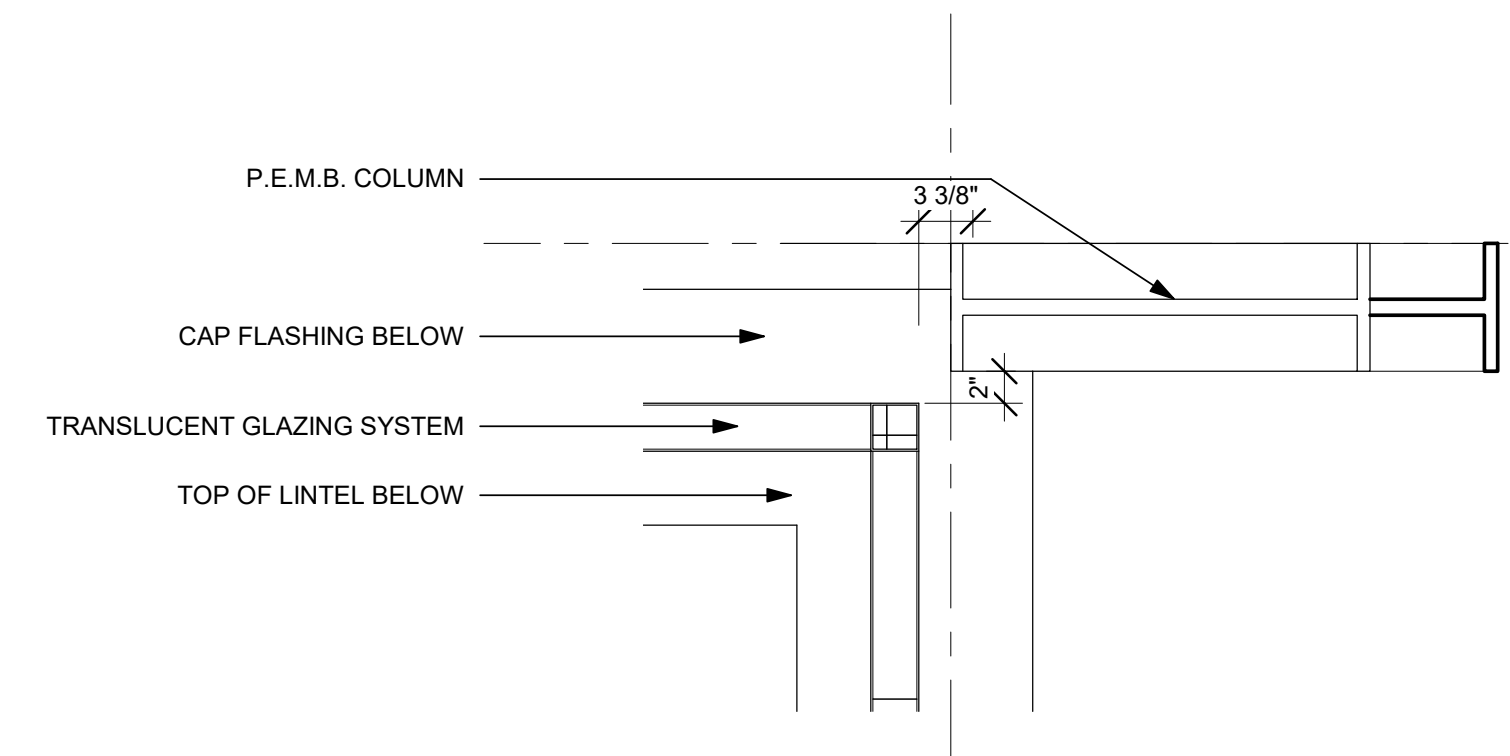
**3C PLAN DETAIL - HIGH**  
SCALE: 1" = 1'-0"



**4A PLAN DETAIL - LOW**  
SCALE: 1" = 1'-0"

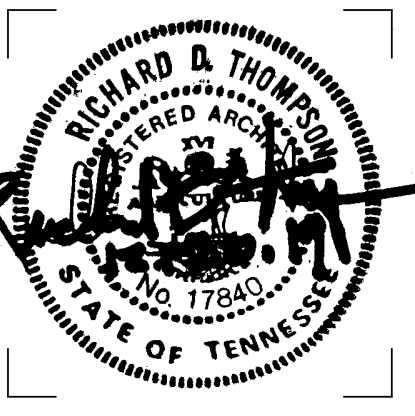


**4B PLAN DETAIL - MID**  
SCALE: 1" = 1'-0"



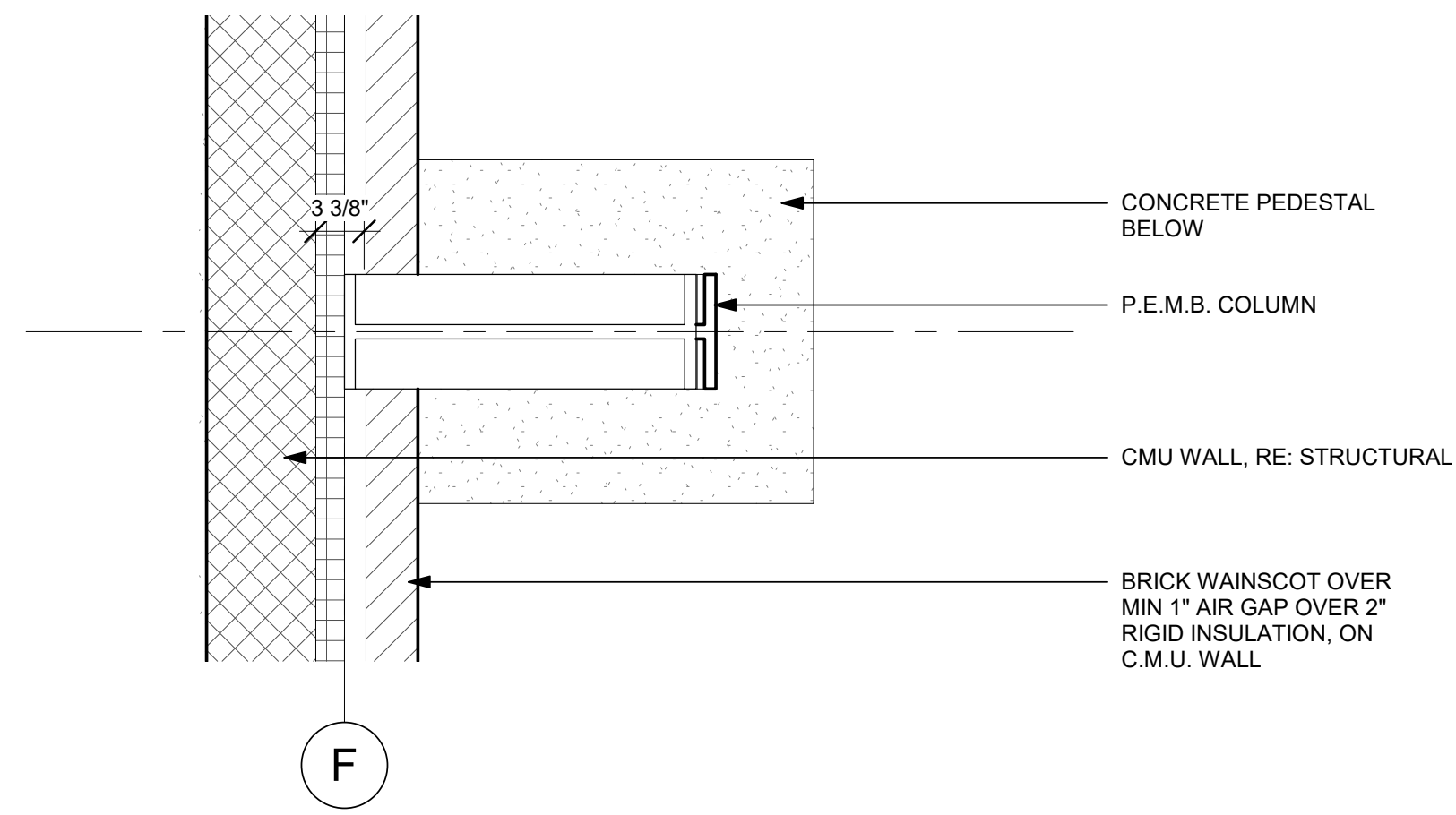
**4C PLAN DETAIL - HIGH**  
SCALE: 1" = 1'-0"

ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.

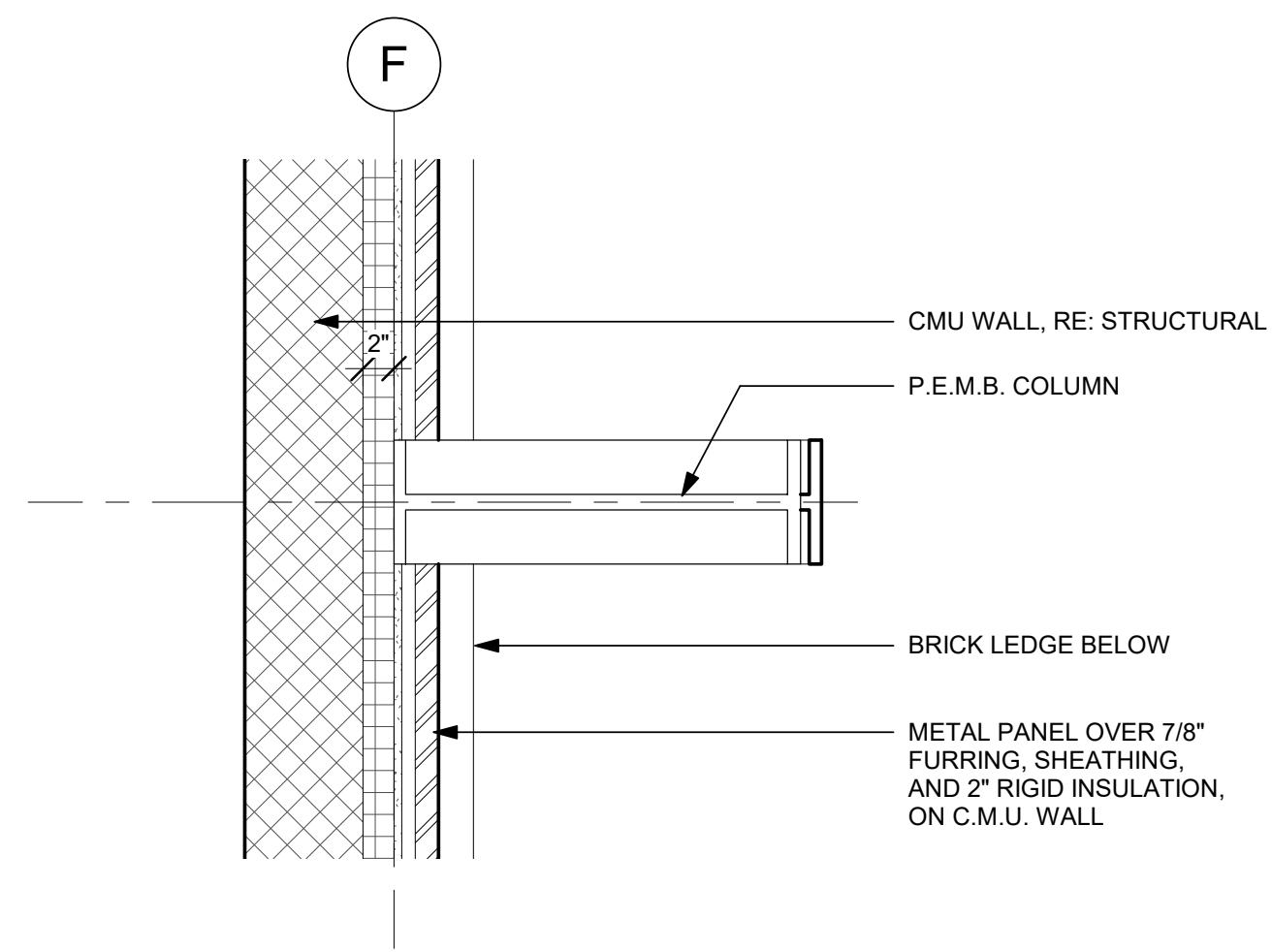


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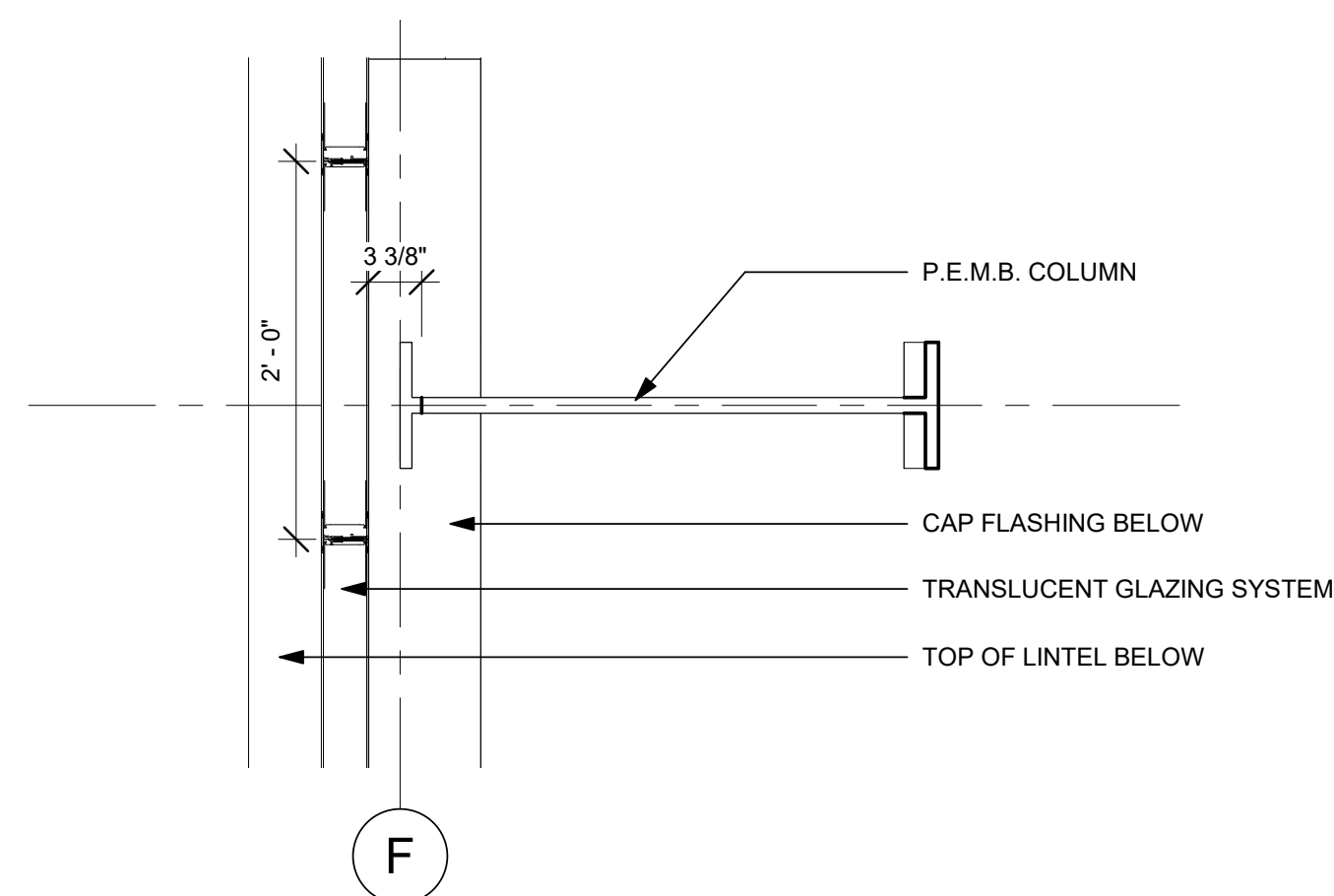




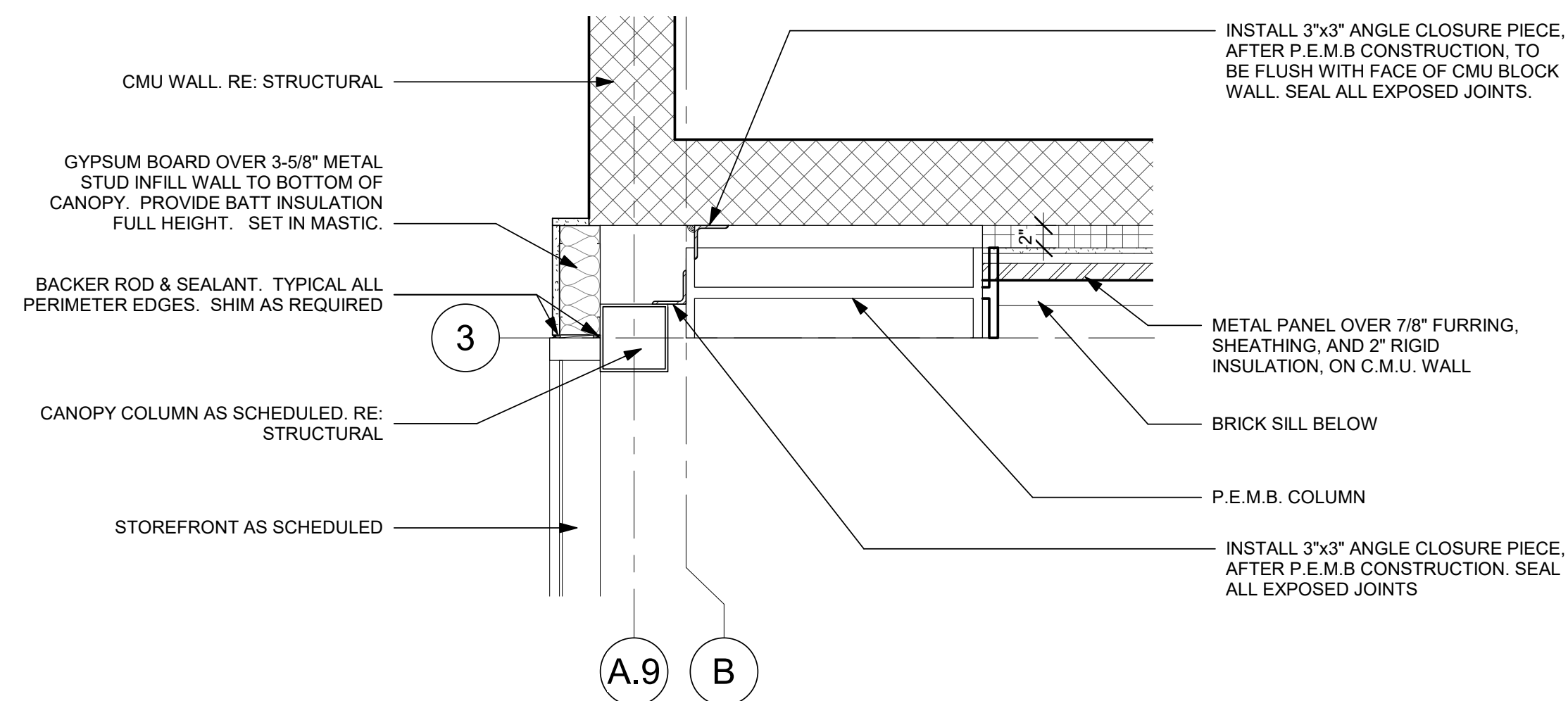
**1A PLAN DETAIL -LOW**  
SCALE: 1" = 1'-0"



**1 PLAN DETAIL MID**  
SCALE: 1" = 1'-0"



**2 PLAN DETAIL HIGH**  
SCALE: 1" = 1'-0"



**3 ENLARGED PLAN DETAIL**  
SCALE: 1" = 1'-0"



ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.



# SITE AMENITIES

STEEL BOLLARD - SEE DETAIL

CUBE BENCH - PRECAST CONCRETE BENCHES @ VARYING HEIGHTS - BASIS OF DESIGN TF5119 WAUSAU MADE  
COLOR: A20 WHITE



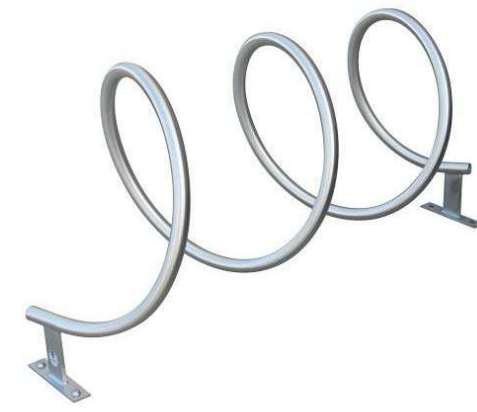
PRECAST CONCRETE BENCH - BASIS OF DESIGN TF5021 FROM WAUSAU MADE  
COLOR: A20 WHITE



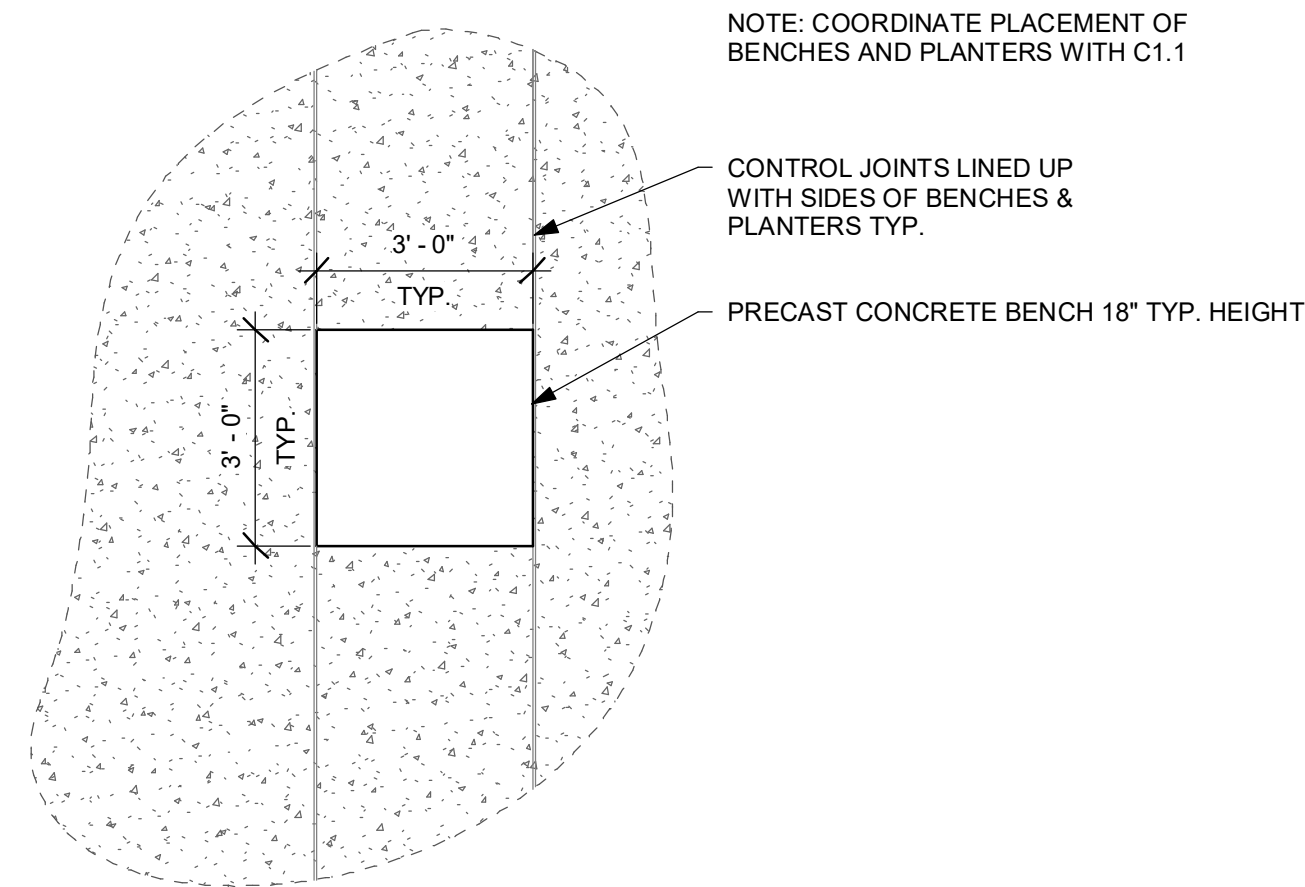
CUBE PLANTER - PRECAST CONCRETE CUBE PLANTER. BASIS OF DESIGN KORNEGAY DESIGN ASPECT SERIES SIZE: 36" x 36" HEIGHTS: 12", 21" 30"  
COLOR: TBD



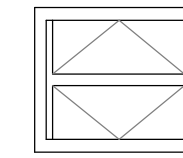
BIKE RACK (SPIRAL) - BASIS OF DESIGN "HELIX RACK" FROM DERO  
COLOR: TBD



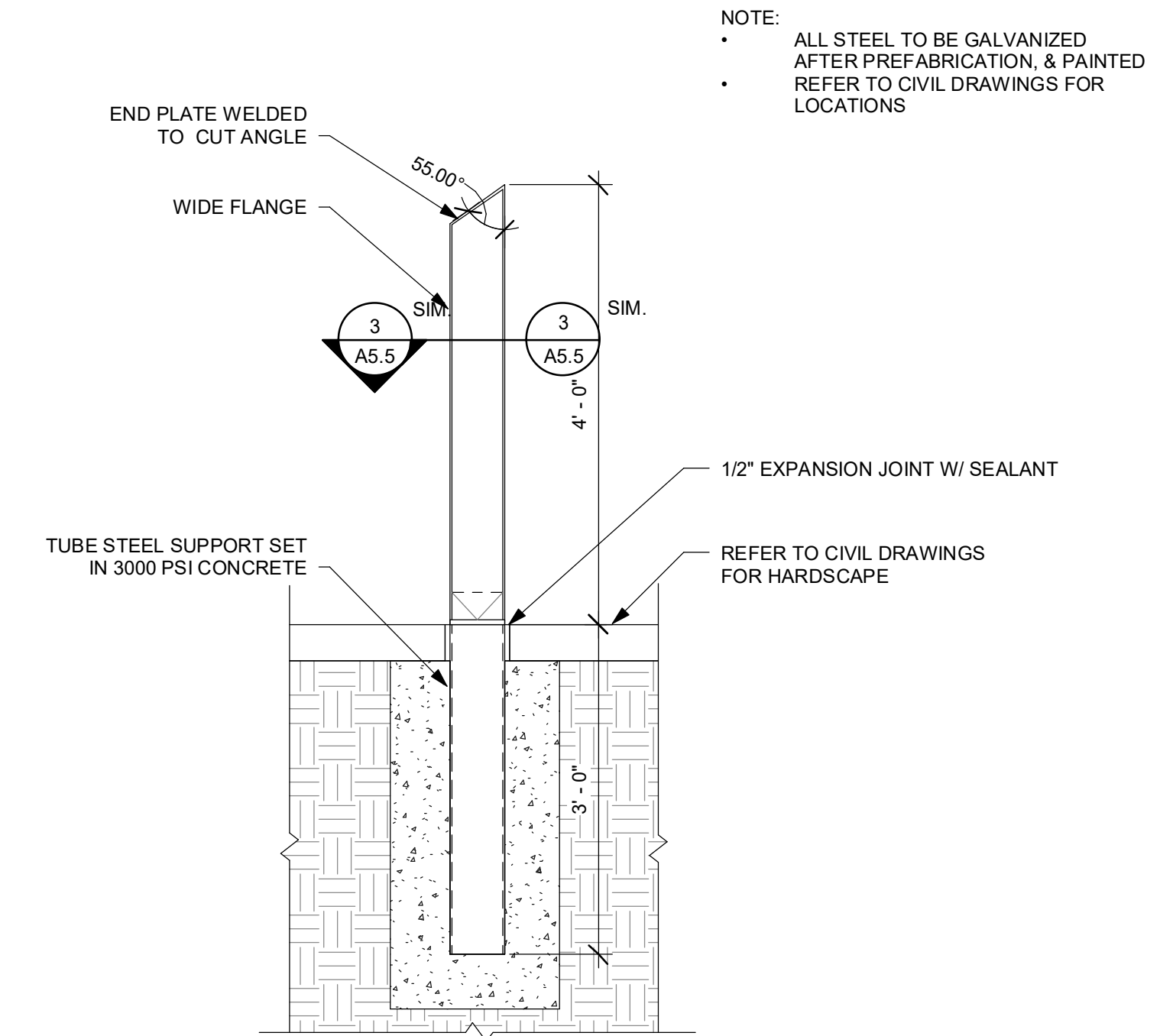
**4 CONCRETE BENCH TYPICAL PATTERN**  
SCALE: 3/8" = 1'-0"



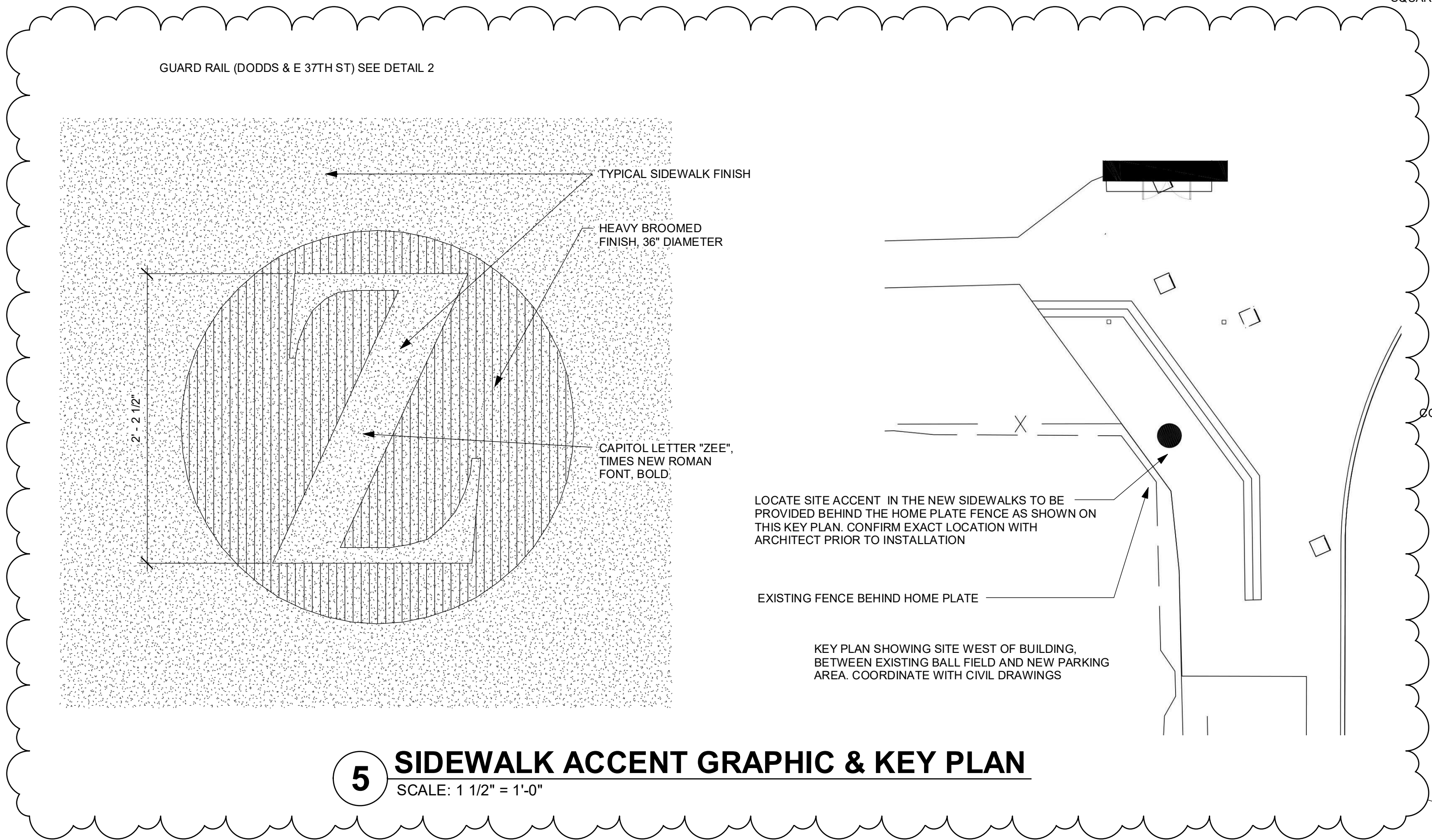
**3 STEEL BOLLARD SECTION**  
SCALE: 1 1/2" = 1'-0"



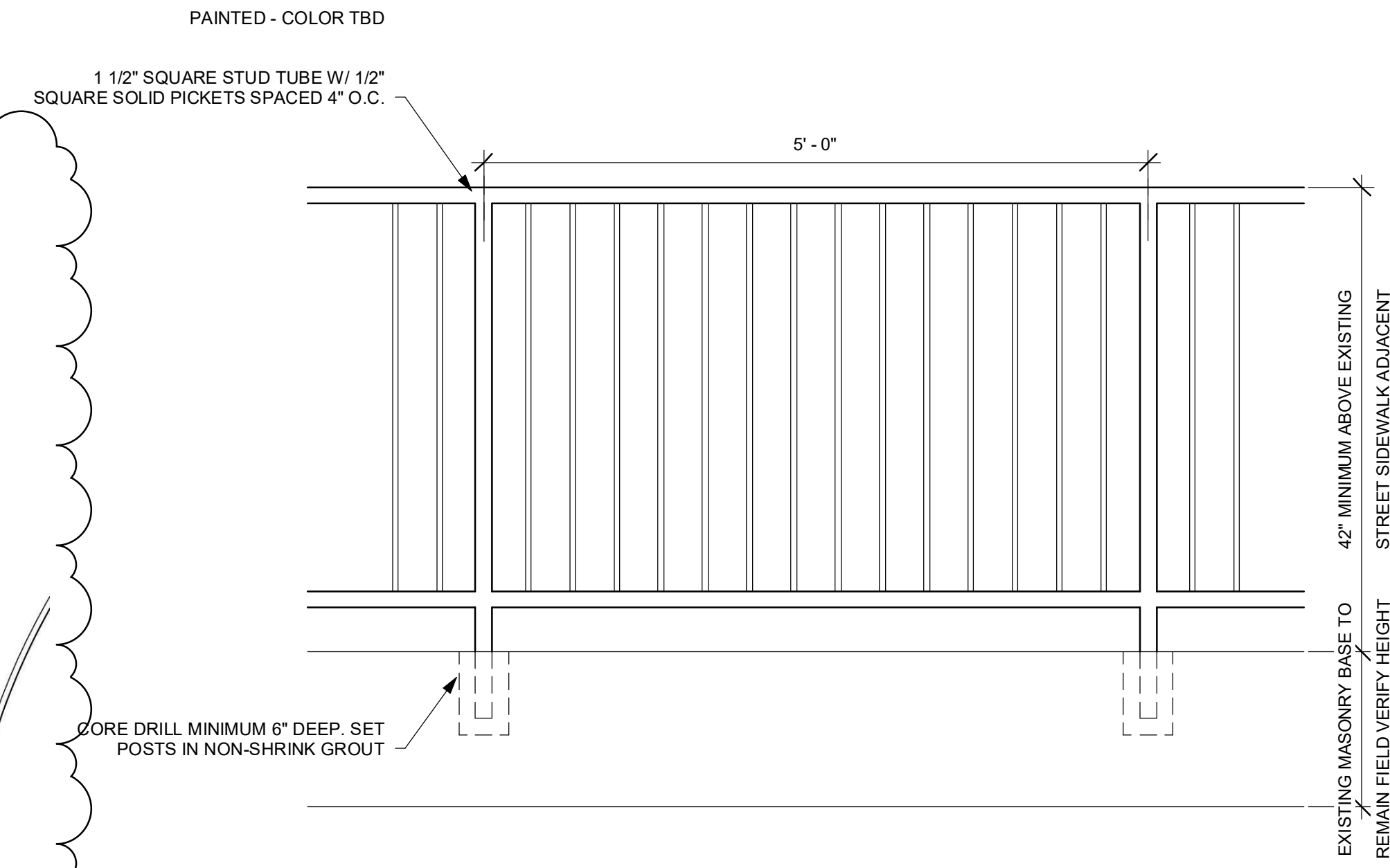
**1 STEEL BOLLARD DETAIL**  
SCALE: 3/4" = 1'-0"



**5 SIDEWALK ACCENT GRAPHIC & KEY PLAN**  
SCALE: 1 1/2" = 1'-0"



**2 TYPICAL GUARD DETAIL**  
SCALE: 1" = 1'-0"



NOTE:  
• ALL STEEL TO BE GALVANIZED AFTER PREFABRICATION, & PAINTED REFER TO CIVIL DRAWINGS FOR LOCATIONS

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM.

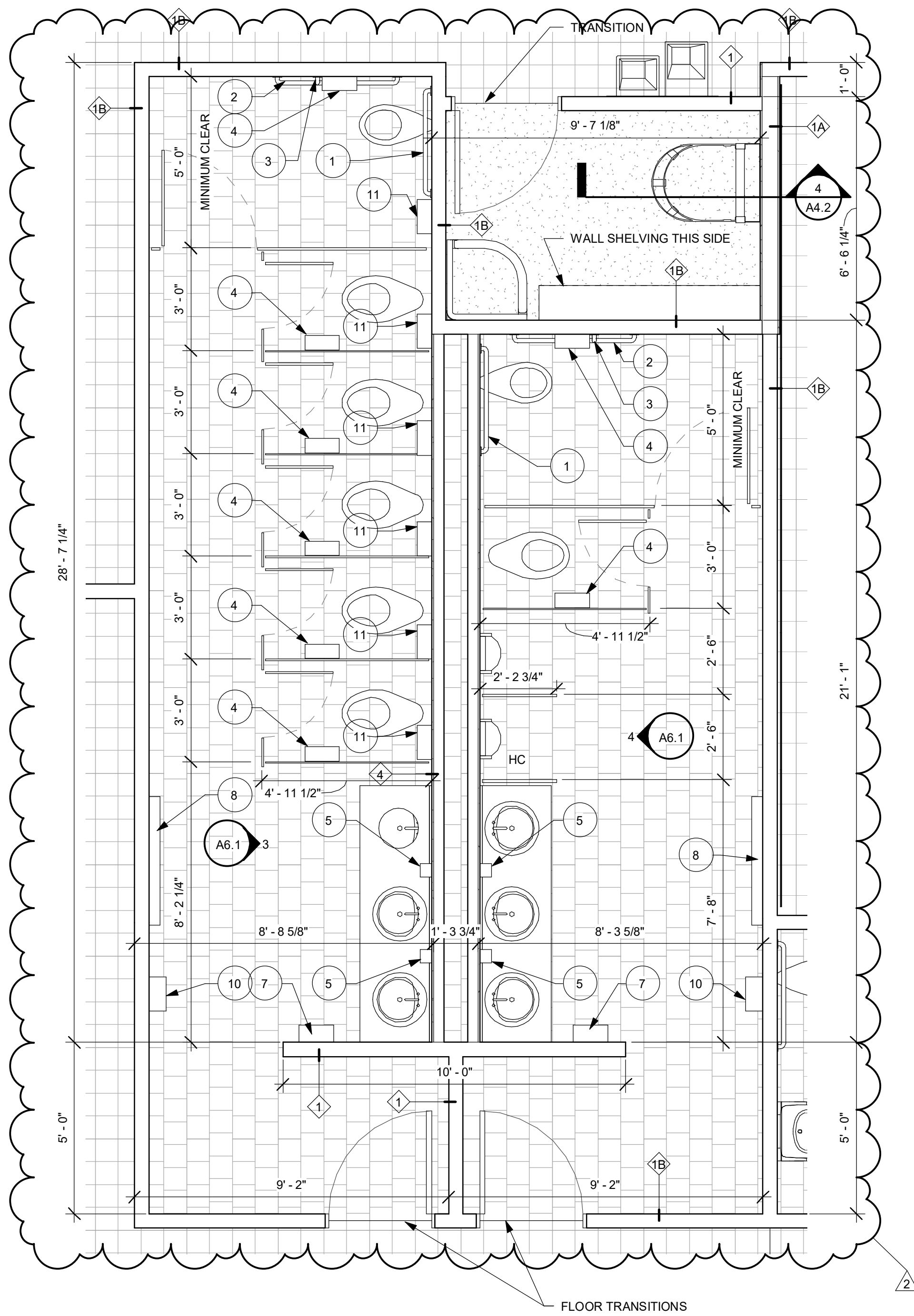


ISSUE DATES

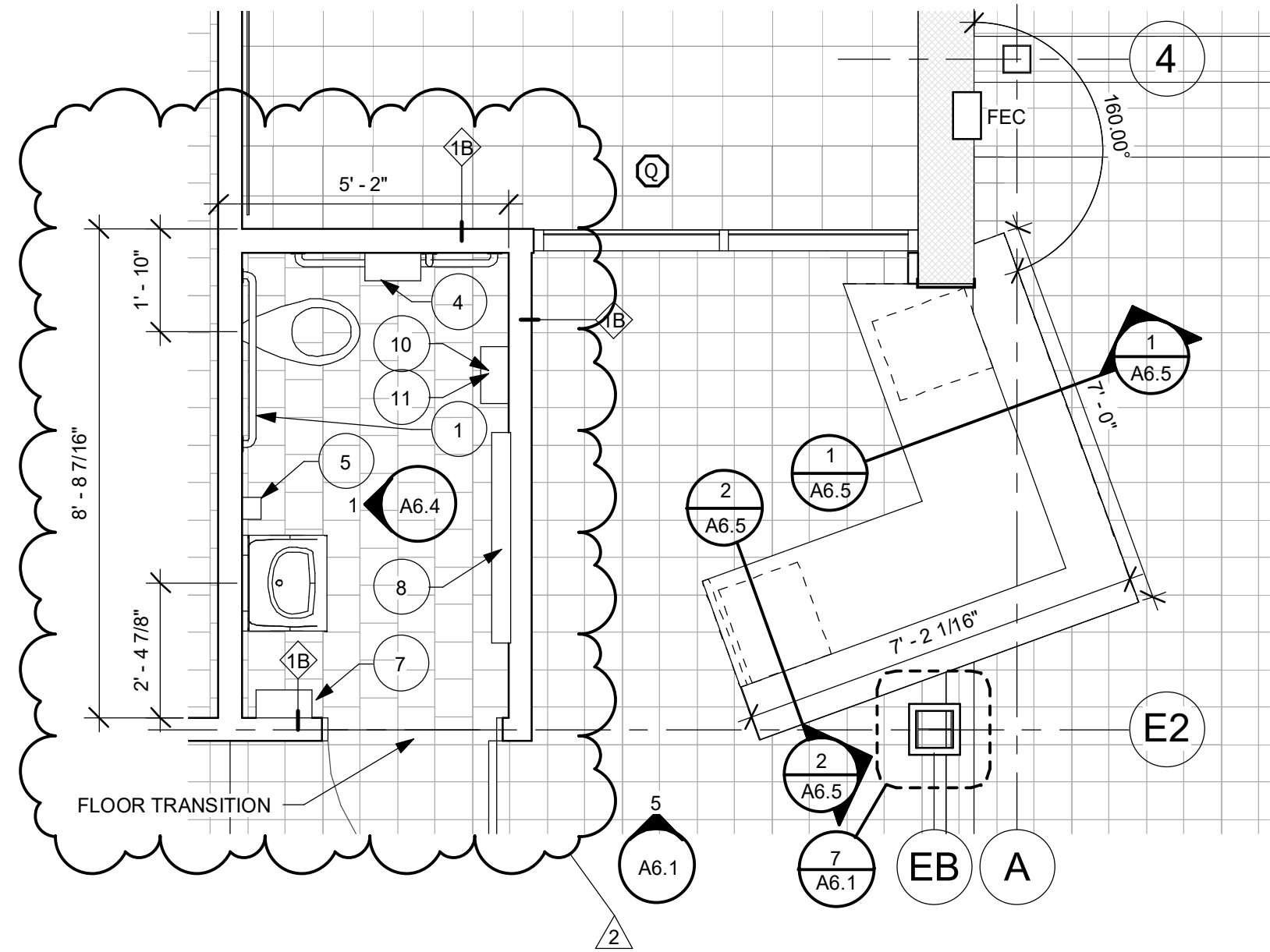
INITIAL ISSUE	12-20-19
1 Addendum 4	01/10/2020
2 Addendum 8	01/21/2020

JOB NO. 18-072	D'WN Author	CK'D Checker
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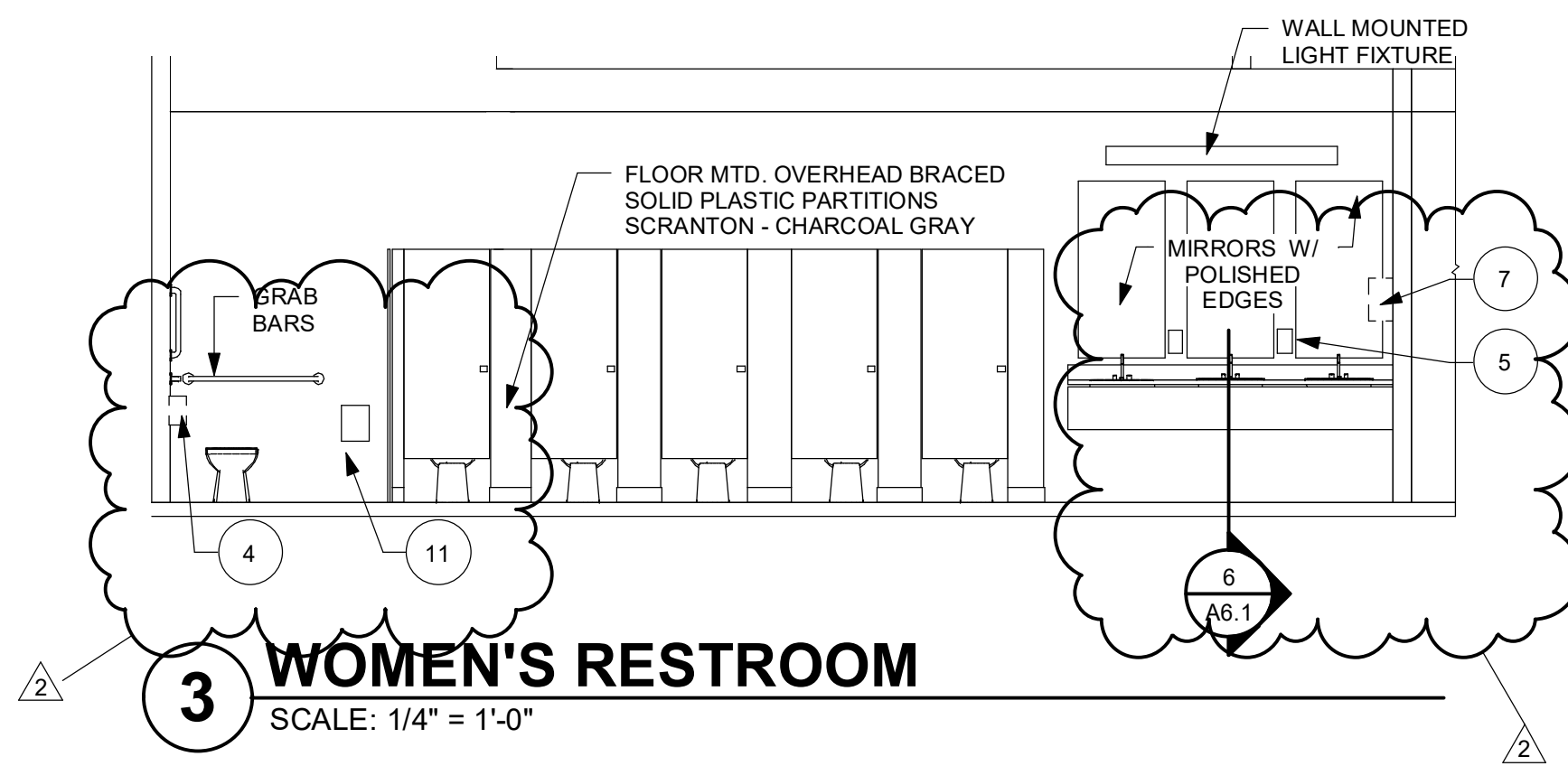




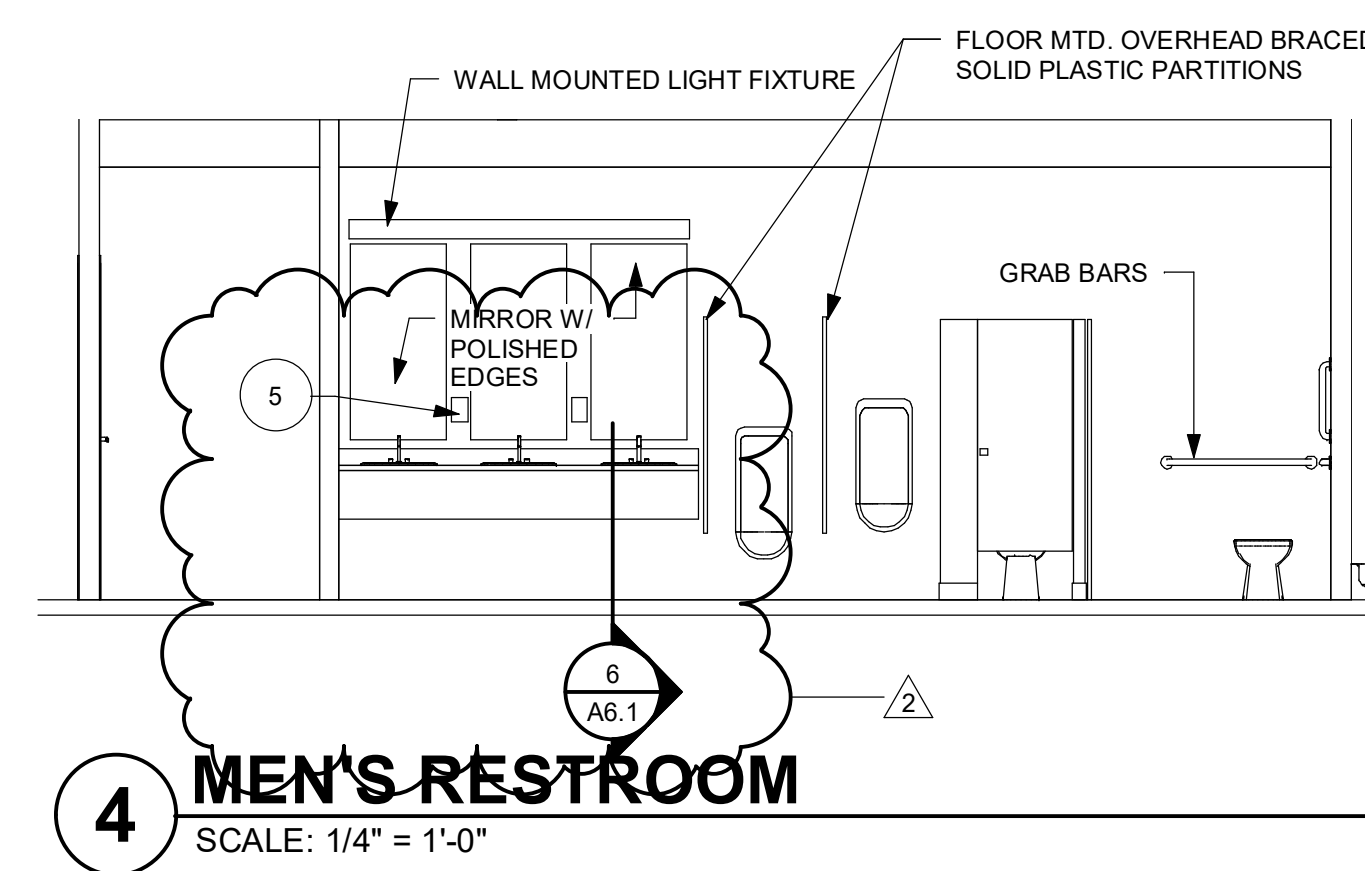
**1 RESTROOMS PLAN**  
SCALE: 3/8" = 1'-0"



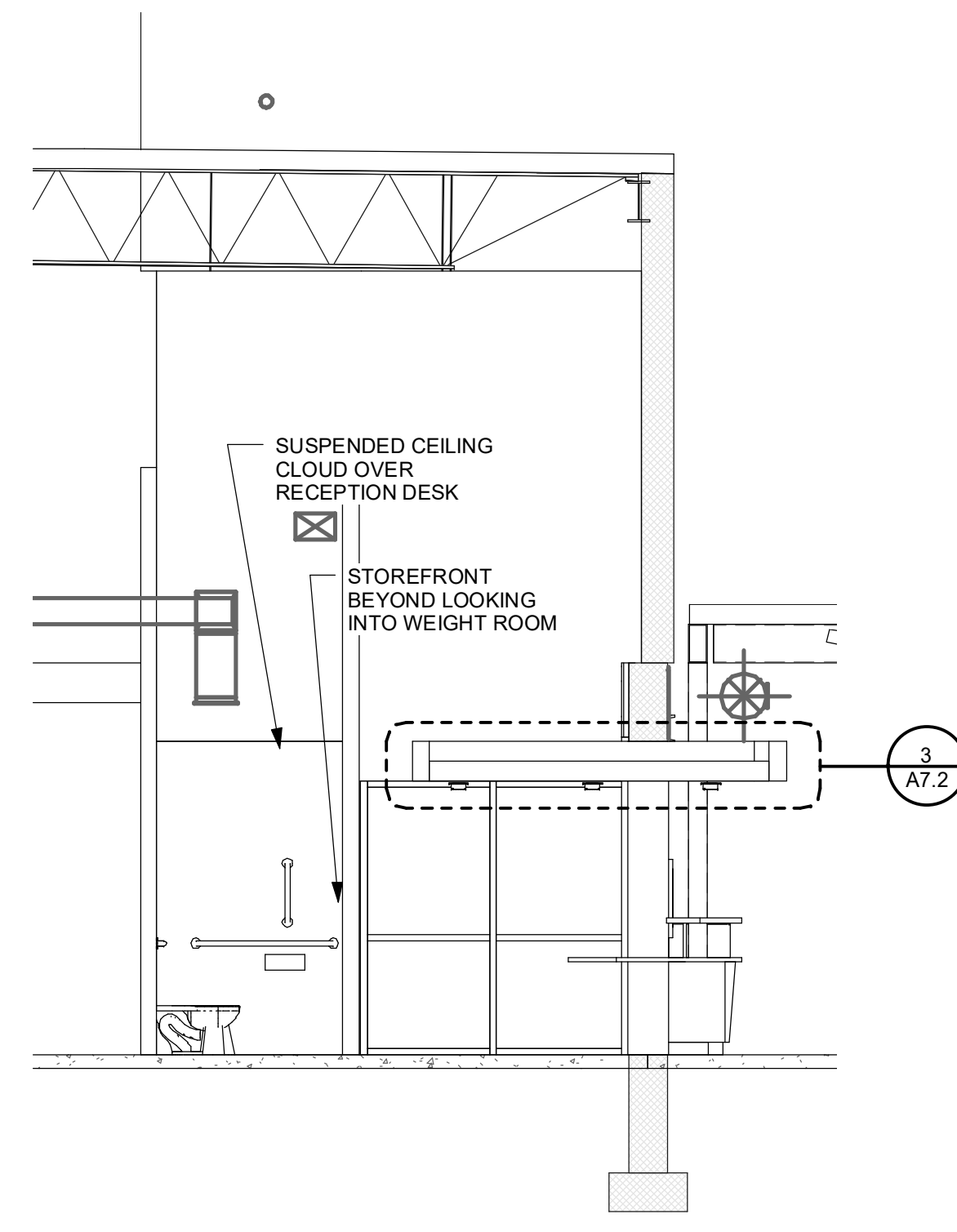
**2 RECEPTION DESK PLAN**  
SCALE: 3/8" = 1'-0"



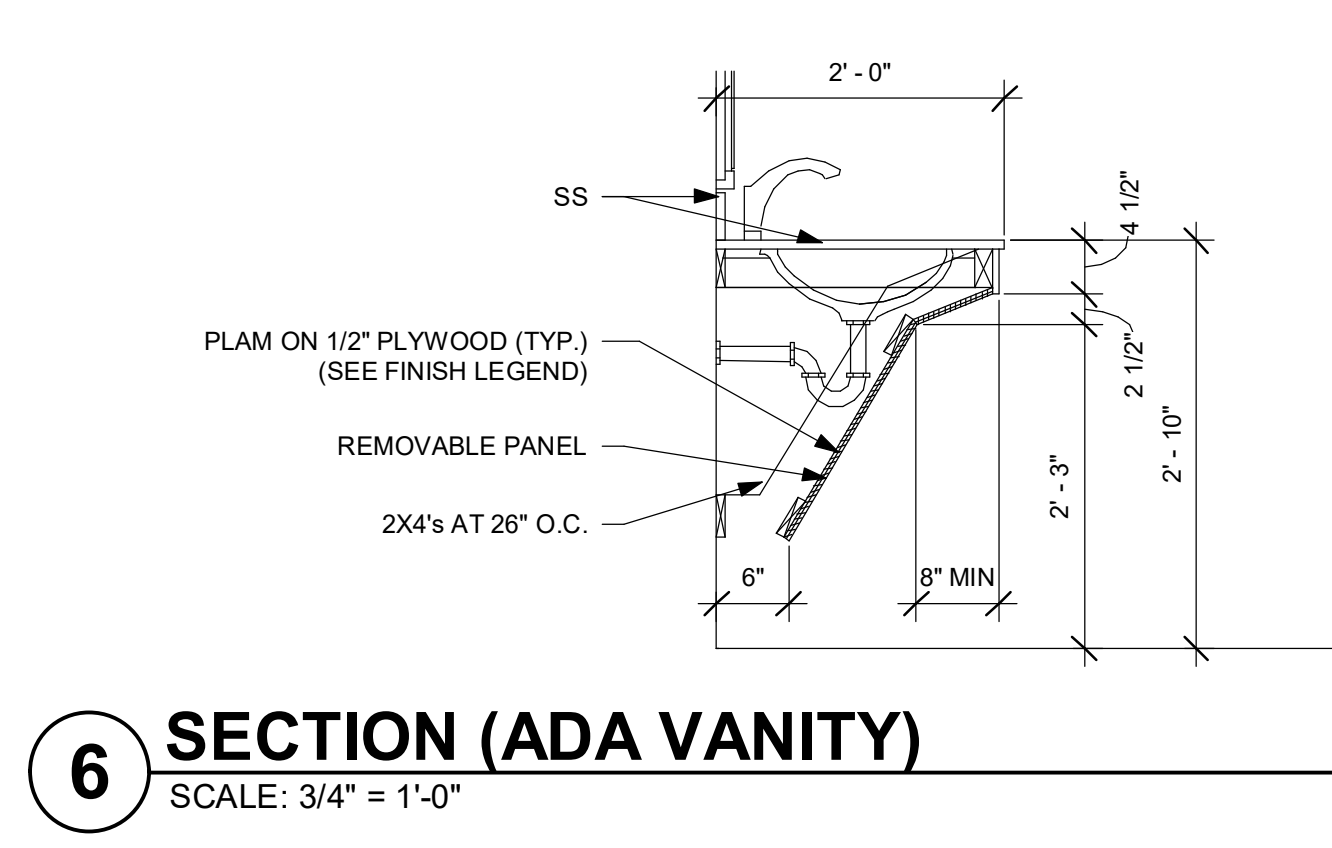
**3 WOMEN'S RESTROOM**  
SCALE: 1/4" = 1'-0"



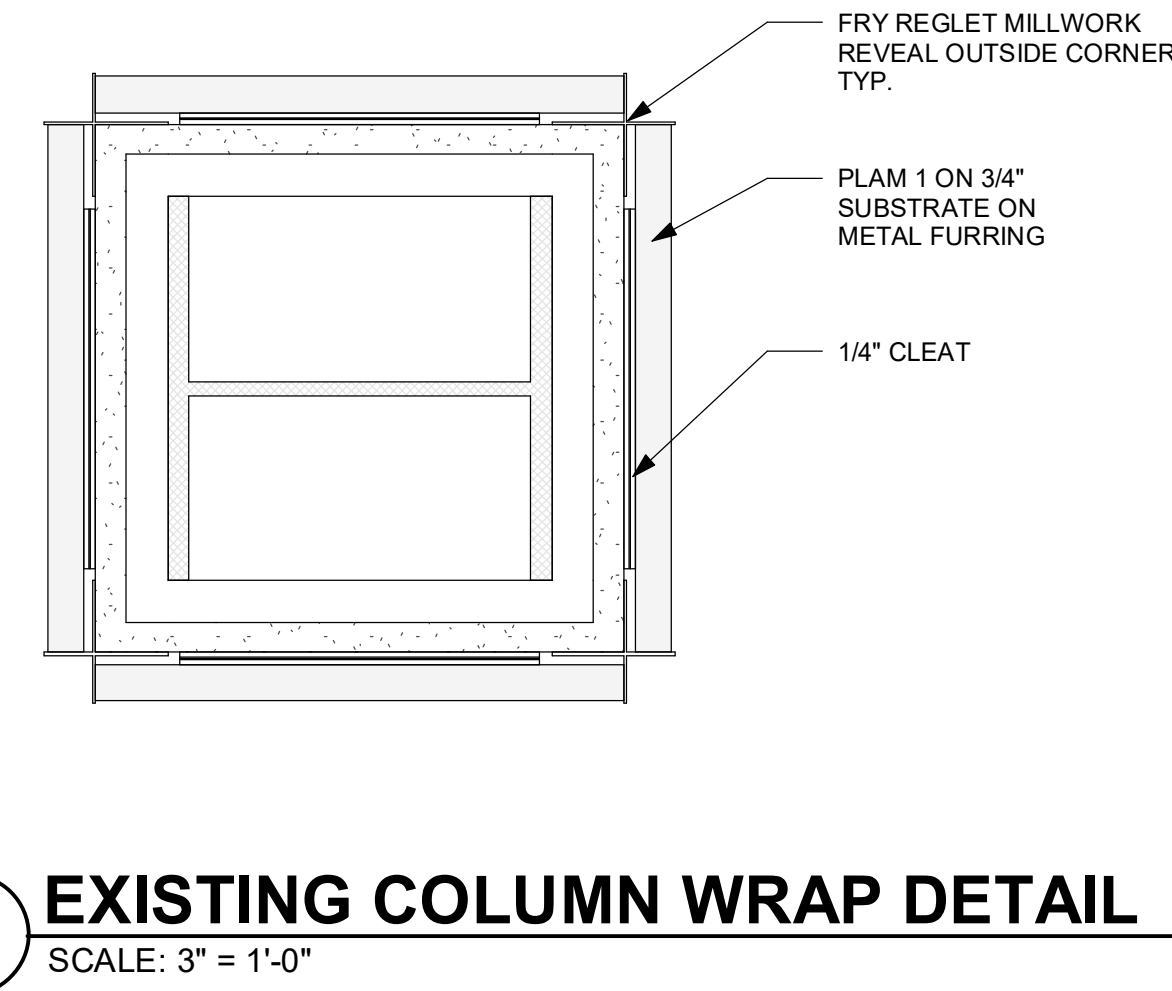
**4 MEN'S RESTROOM**  
SCALE: 1/4" = 1'-0"



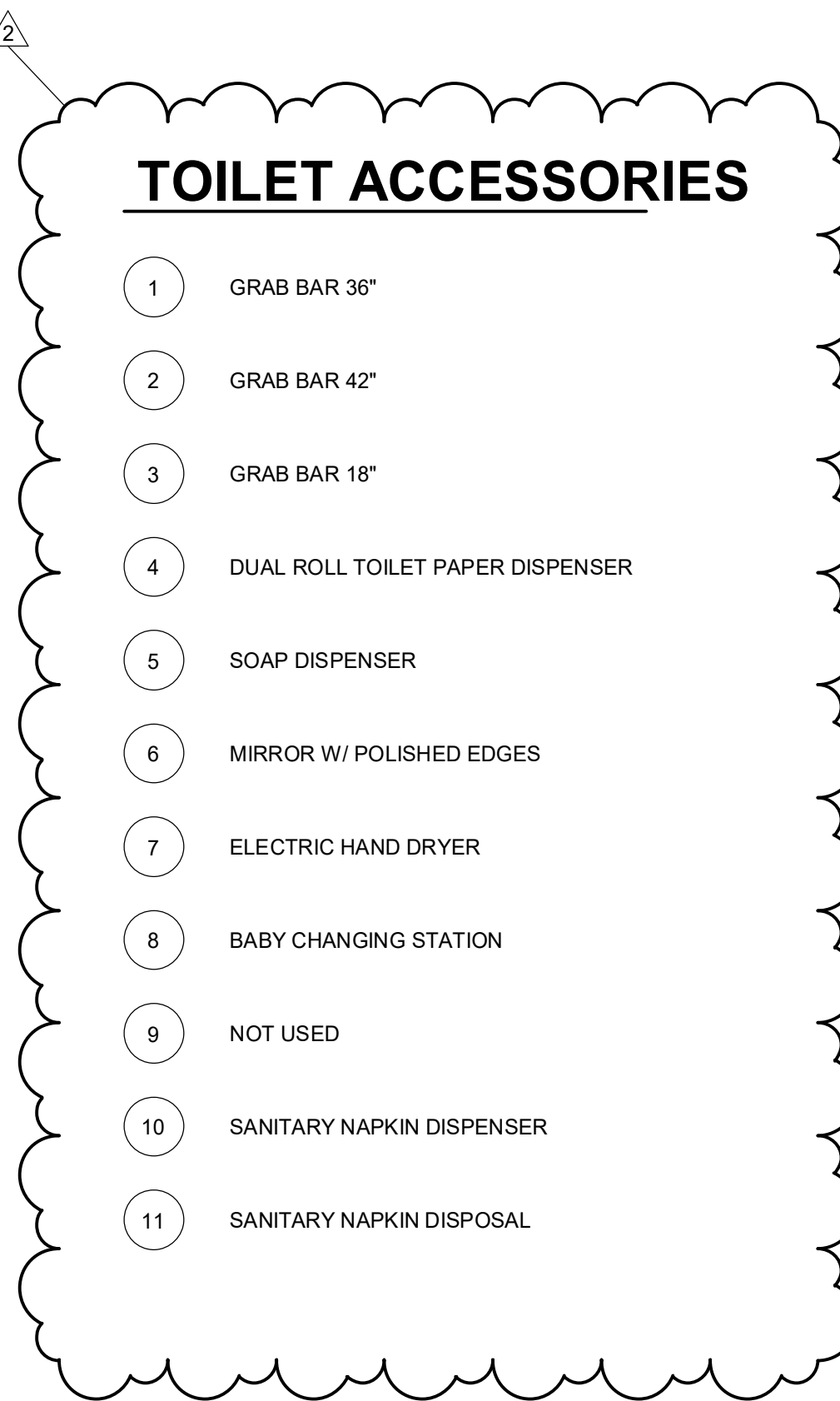
**5 RECEPTION ELEVATION**  
SCALE: 1/4" = 1'-0"



**6 SECTION (ADA VANITY)**  
SCALE: 3/4" = 1'-0"



**7 EXISTING COLUMN WRAP DETAIL**  
SCALE: 3" = 1'-0"



ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.

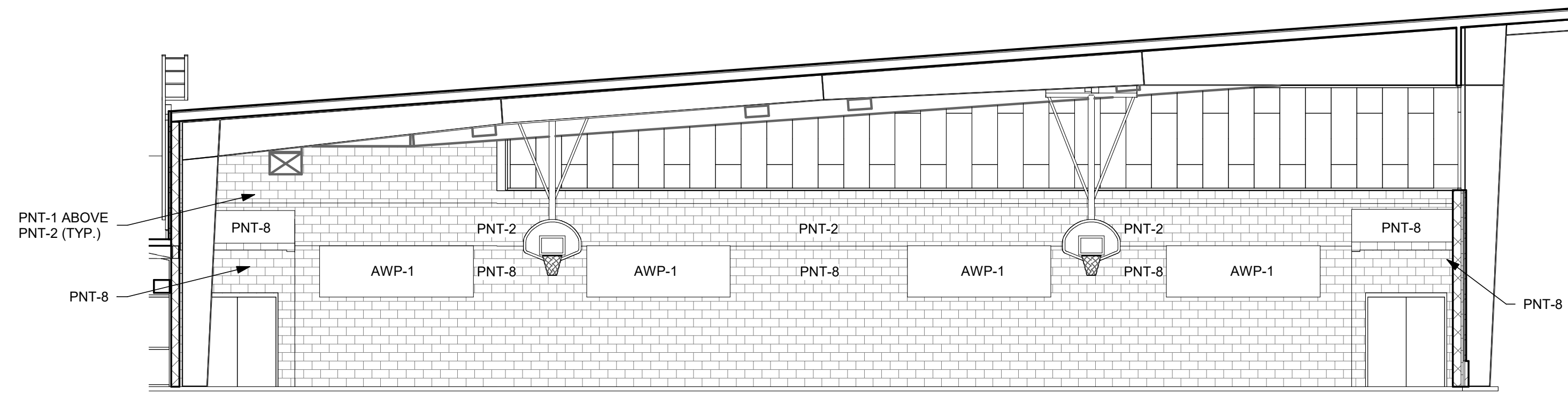


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2 Addendum 6 01/14/2020

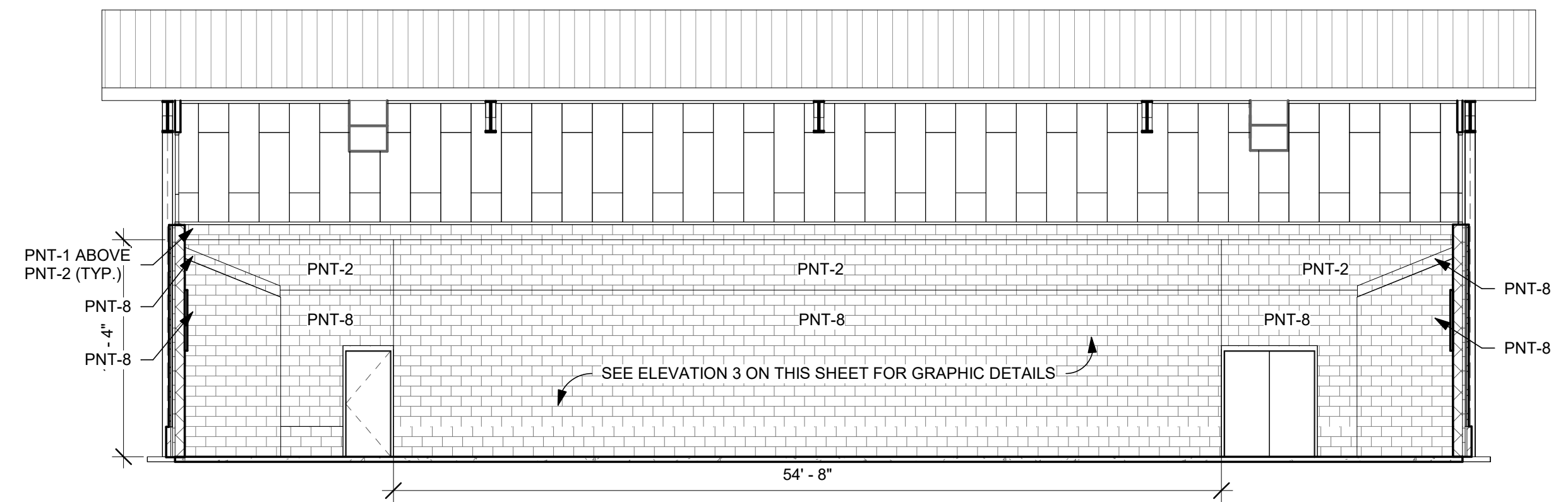
JOB NO. 15-072 | D'WIN Author | CKD Checker

**A6.1**  
ENLARGED PLANS

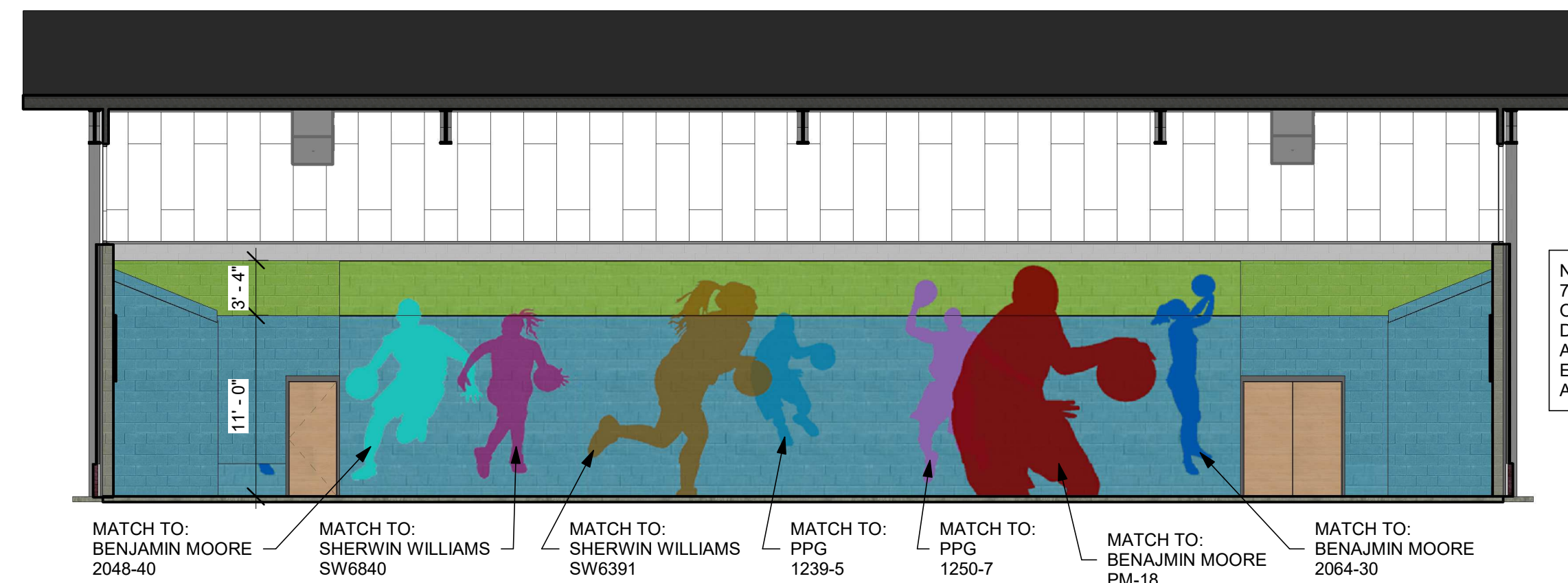




**1 GYM 102 LOOKING EAST (WEST SIM. OPP. HAND)**  
SCALE: 1/8" = 1'-0"

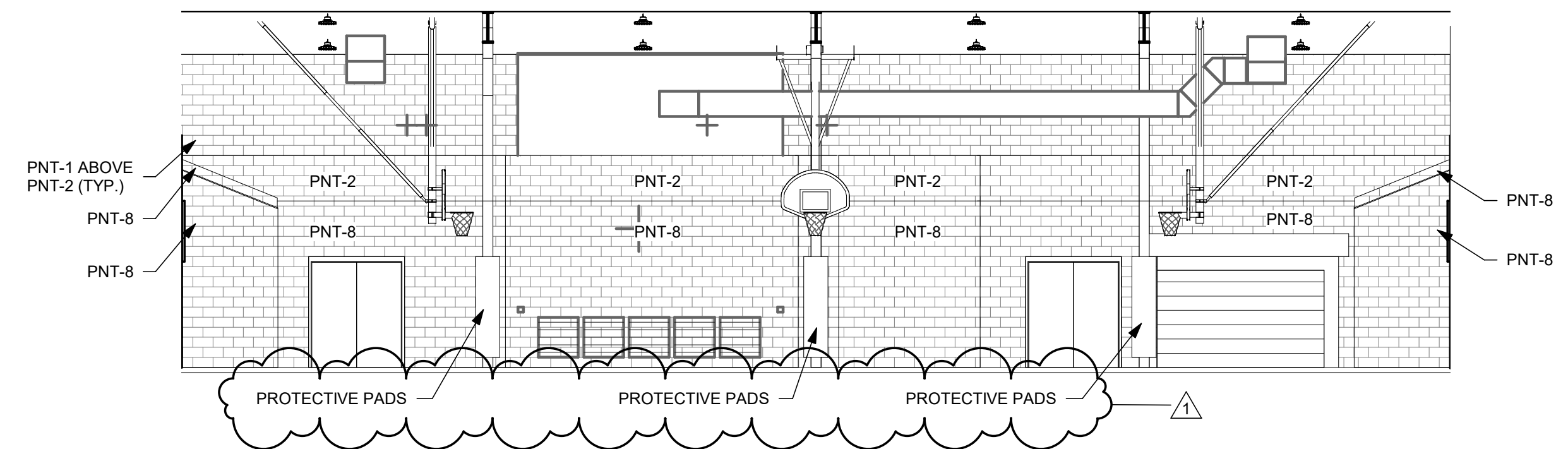


**2 GYM 102 LOOKING SOUTH**  
SCALE: 1/8" = 1'-0"

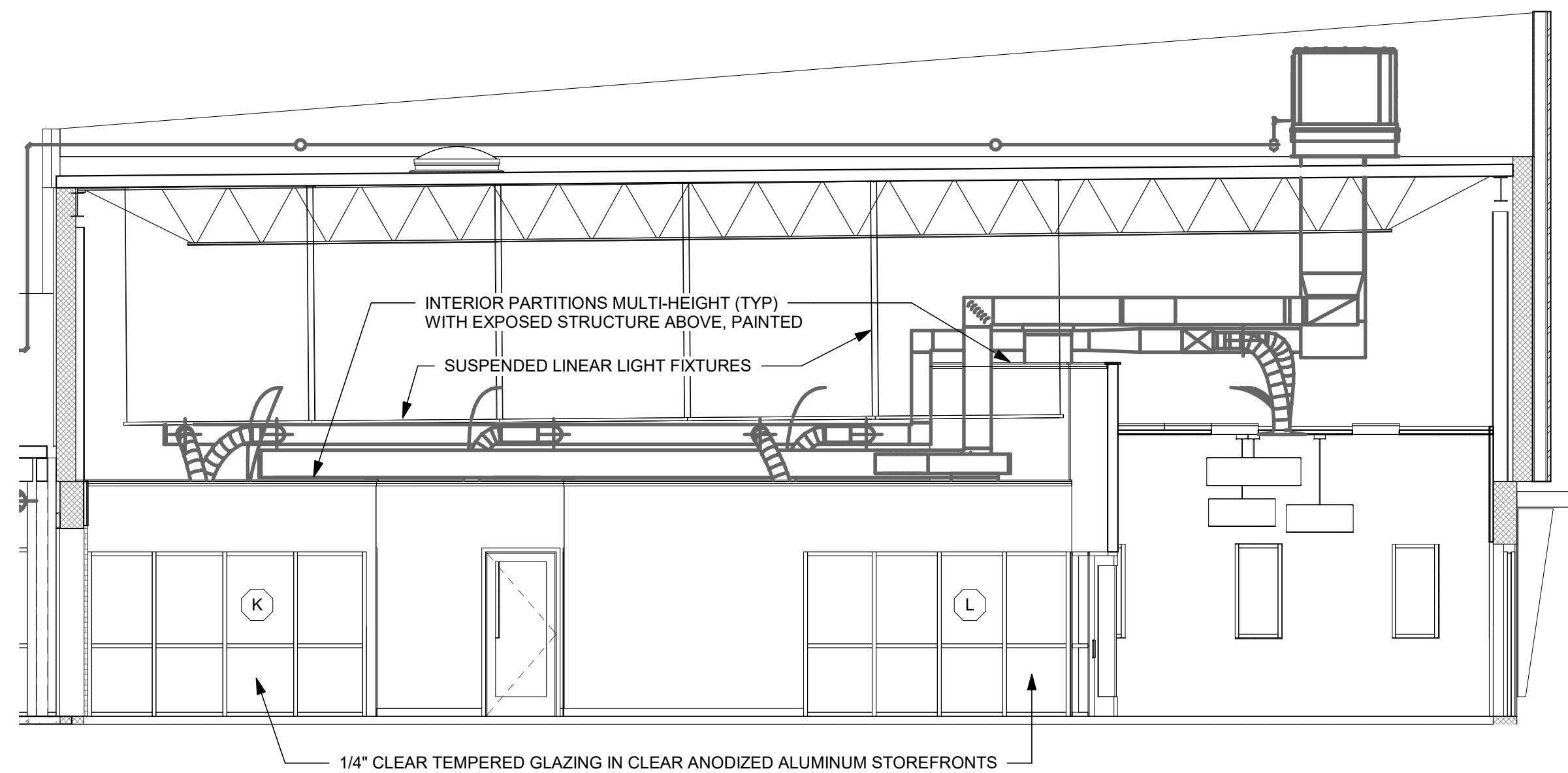


NOTE:  
7 COLOR WALL GRAPHIC,  
OVERALL WALL DIMENSION BETWEEN  
DOORS IS APPROX. 14'-4" H X 52'-9" W.  
ARCHITECT TO PROVIDE COLOR  
ELEVATION W/ SCALE AND GRID AFTER  
AWARDED BID.

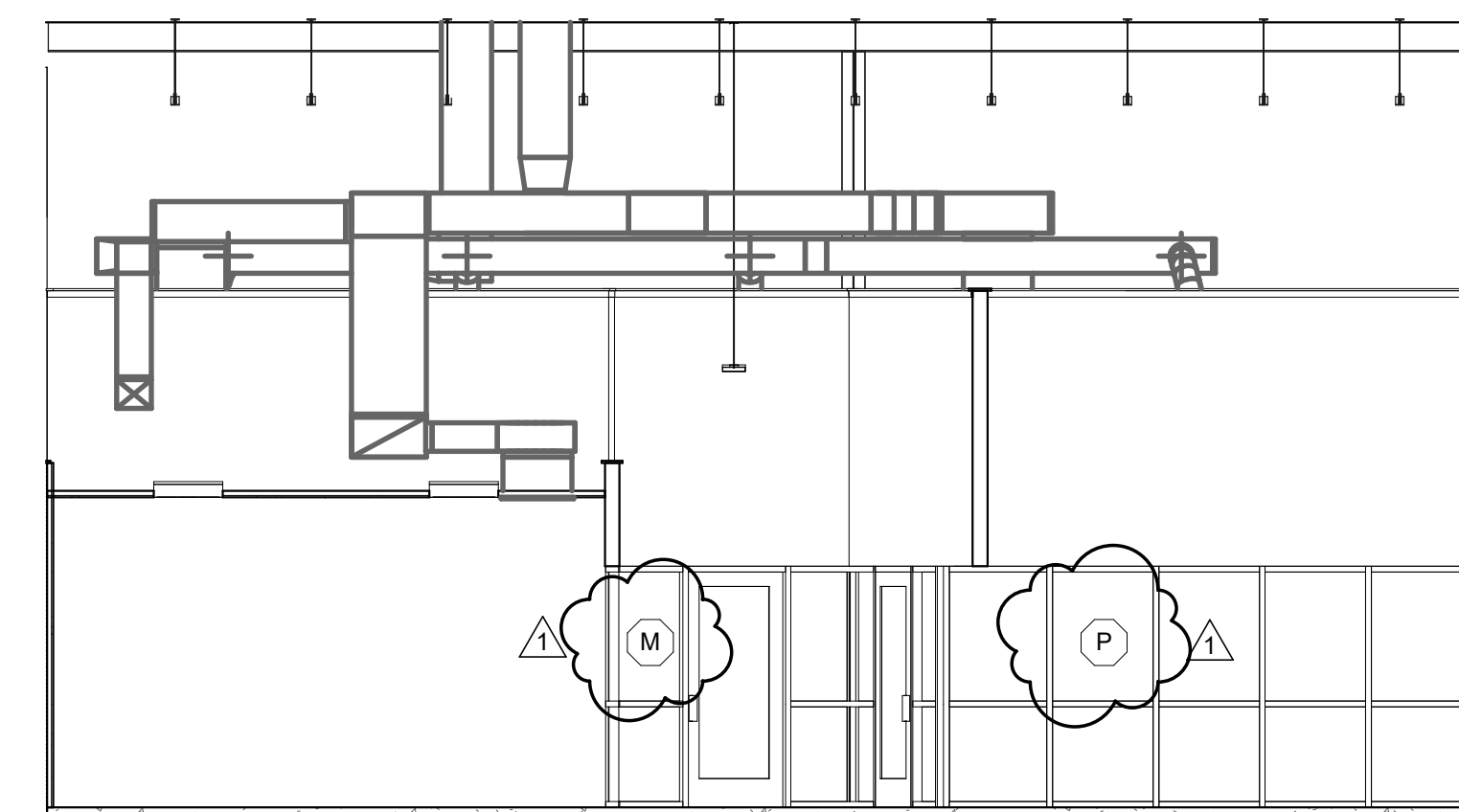
**3 GYM 102 LOOKING SOUTH**  
SCALE: 1/8" = 1'-0"



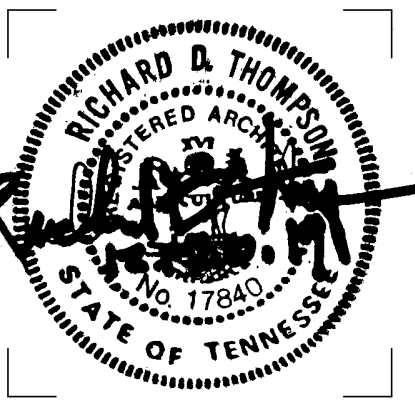
**4 GYM 102 LOOKING NORTH**  
SCALE: 1/8" = 1'-0"



**5 CORRIDOR 118 LOOKING SOUTH**  
SCALE: 3/16" = 1'-0"

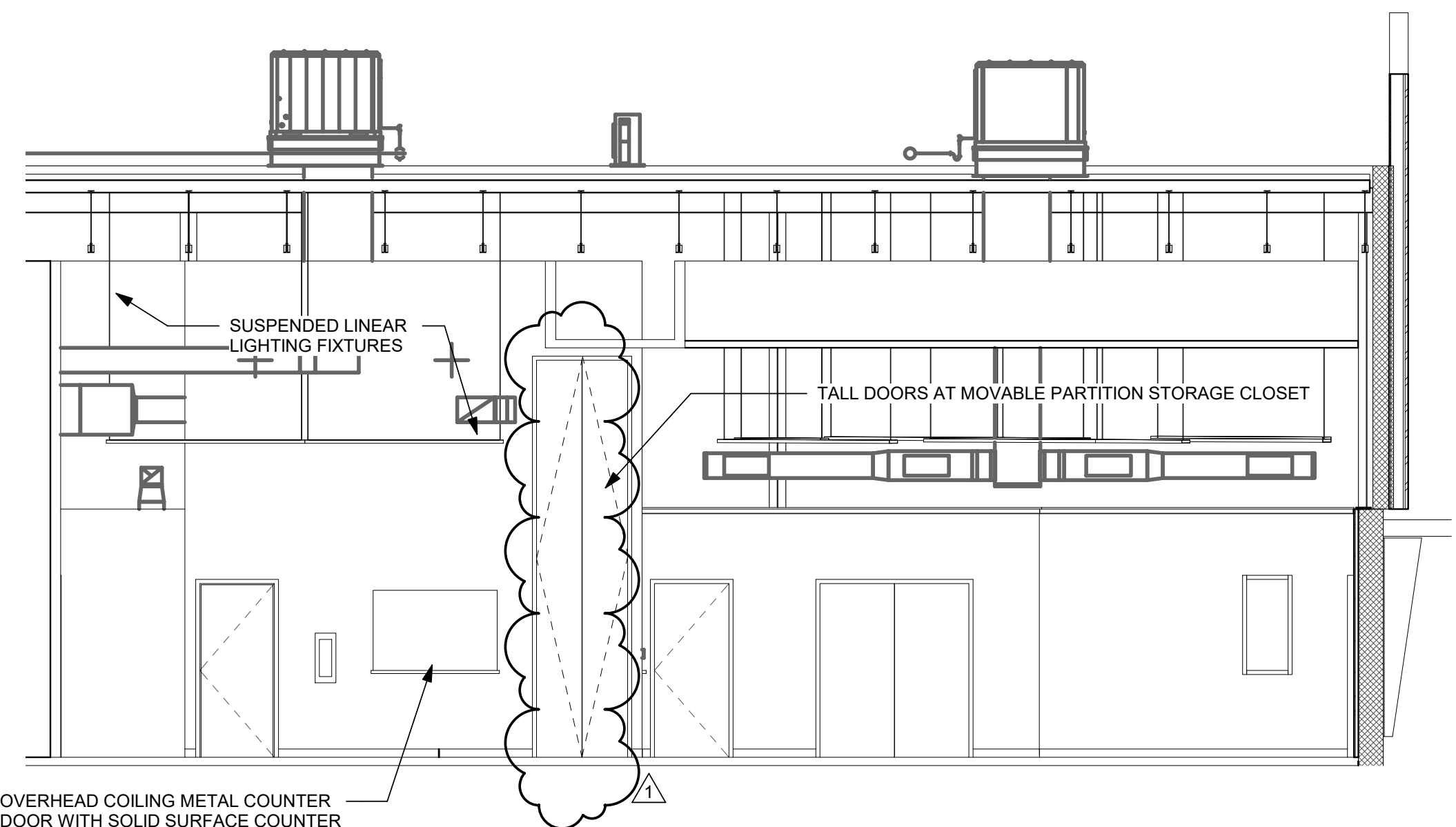


**6 CORRIDOR 118 LOOKING WEST**  
SCALE: 3/16" = 1'-0"

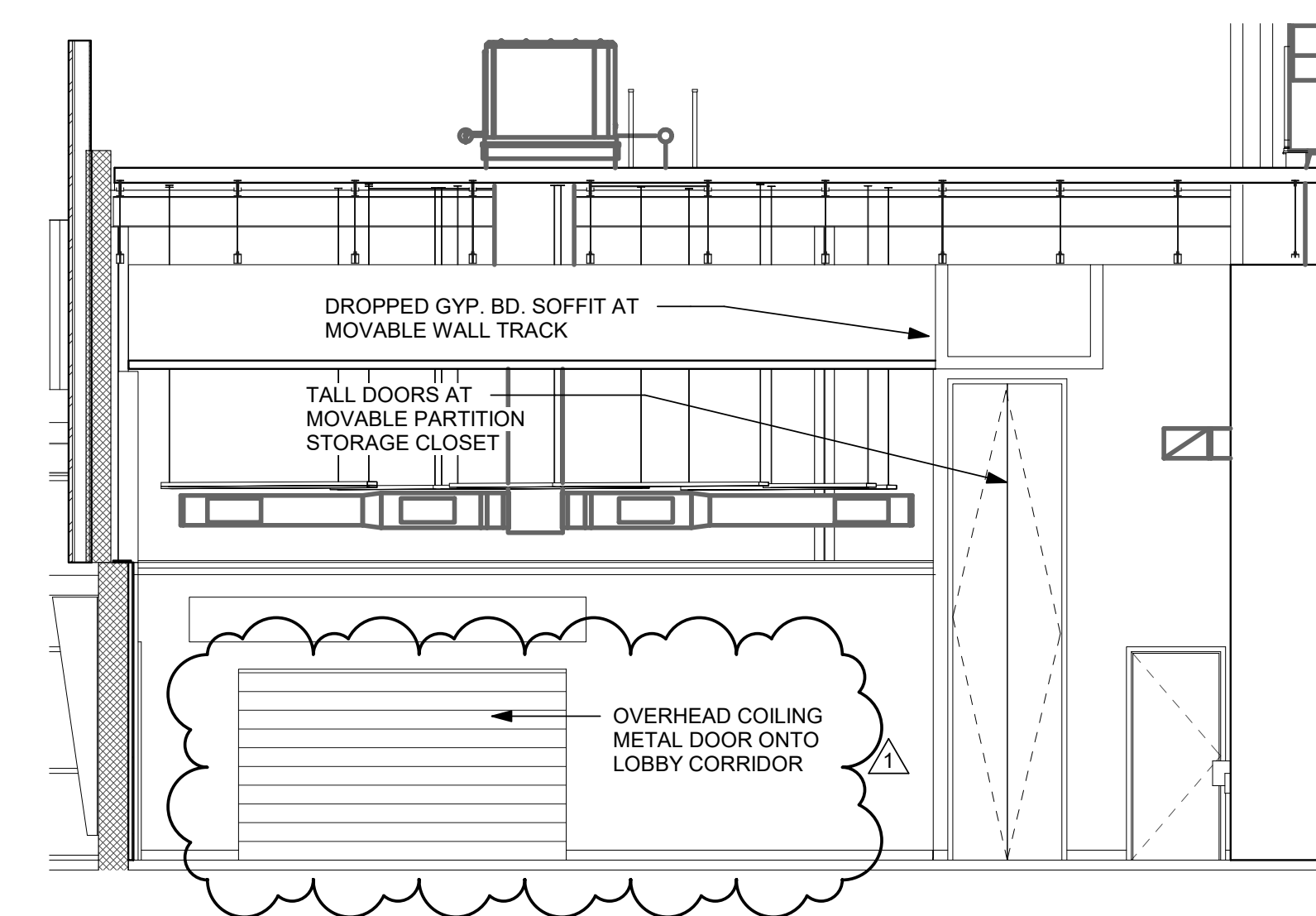


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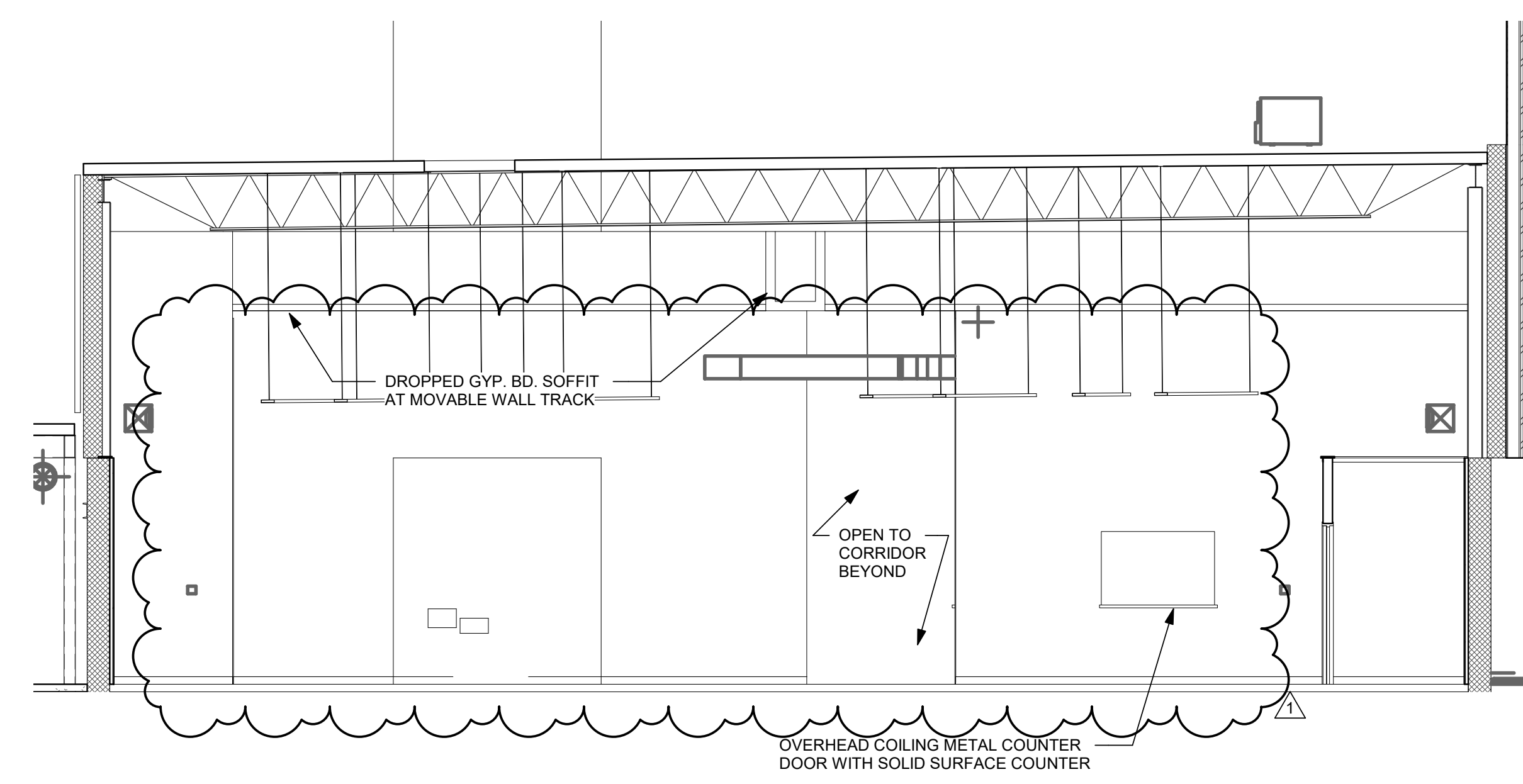




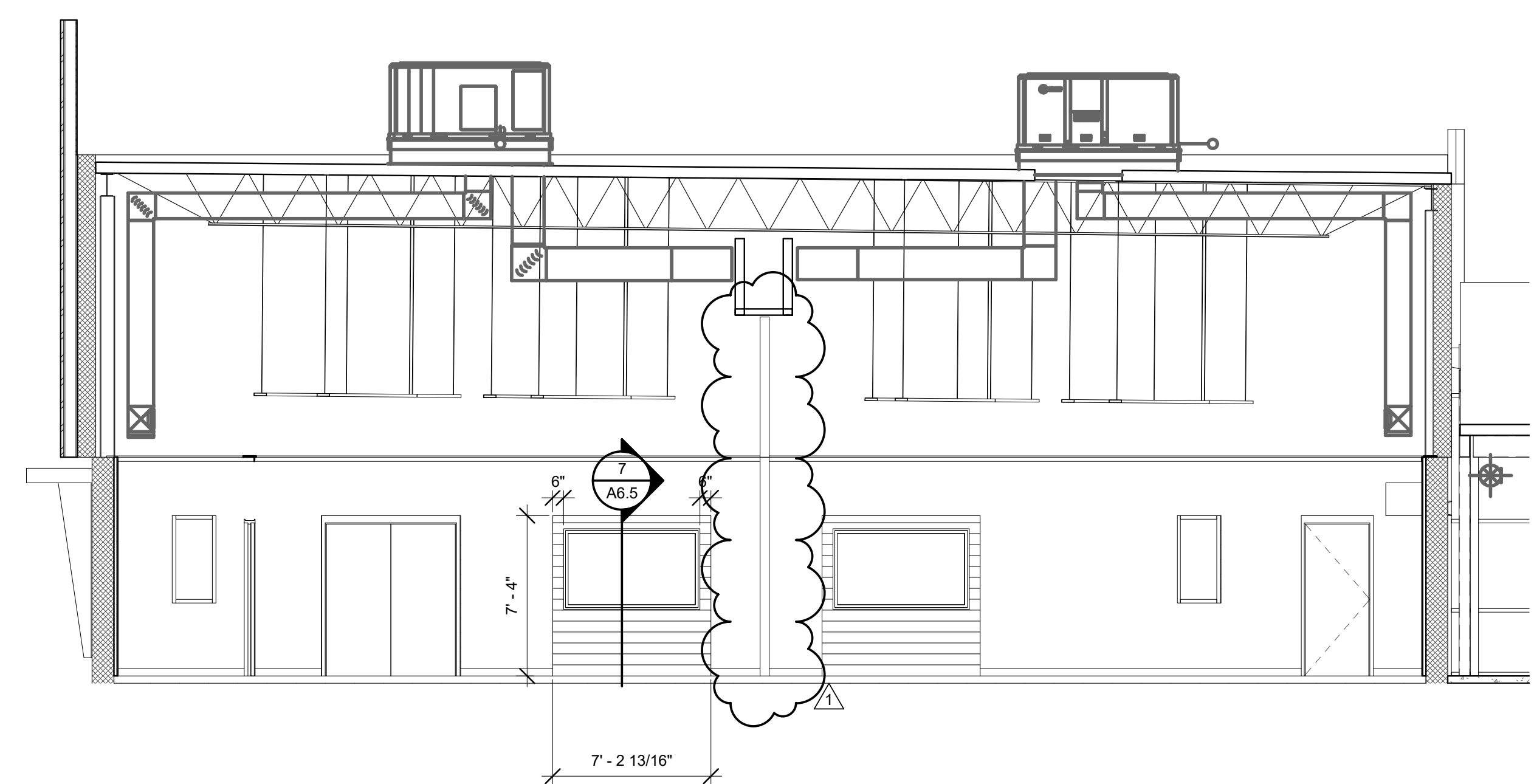
**1 MULTI-PURPOSE ROOMS LOOKING NORTH**  
 SCALE: 3/16" = 1'-0"



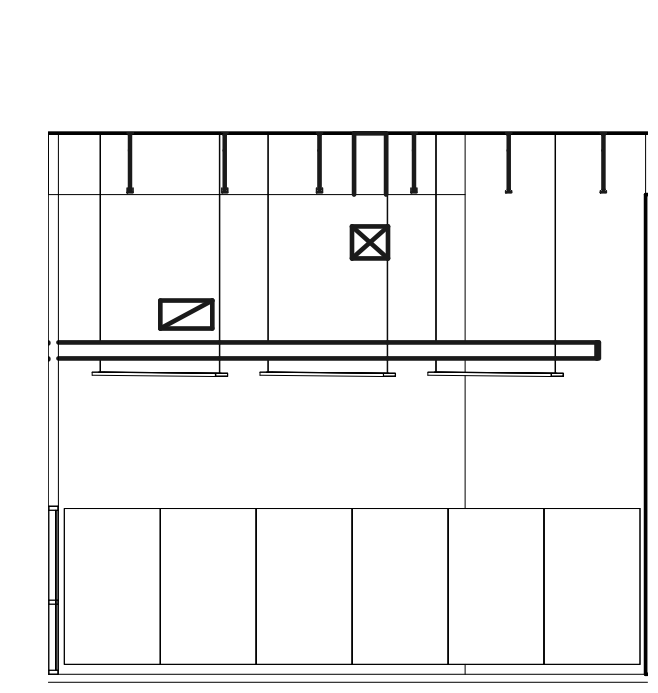
**2 MULTI-PURPOSE ROOMS LOOKING SOUTH**  
 SCALE: 3/16" = 1'-0"



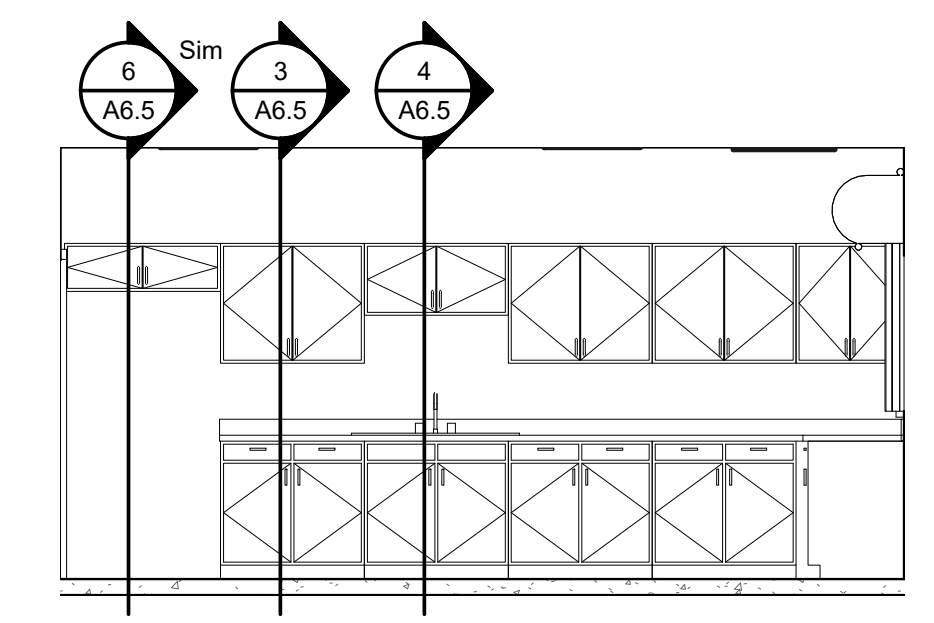
**3 MULTI-PURPOSE ROOMS LOOKING WEST**  
 SCALE: 3/16" = 1'-0"



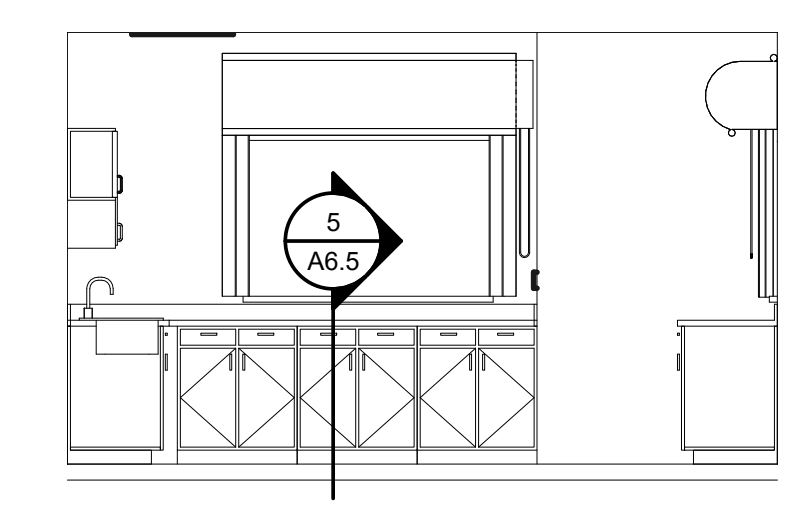
**4 MULTI-PURPOSE ROOMS LOOKING EAST**  
 SCALE: 3/16" = 1'-0"



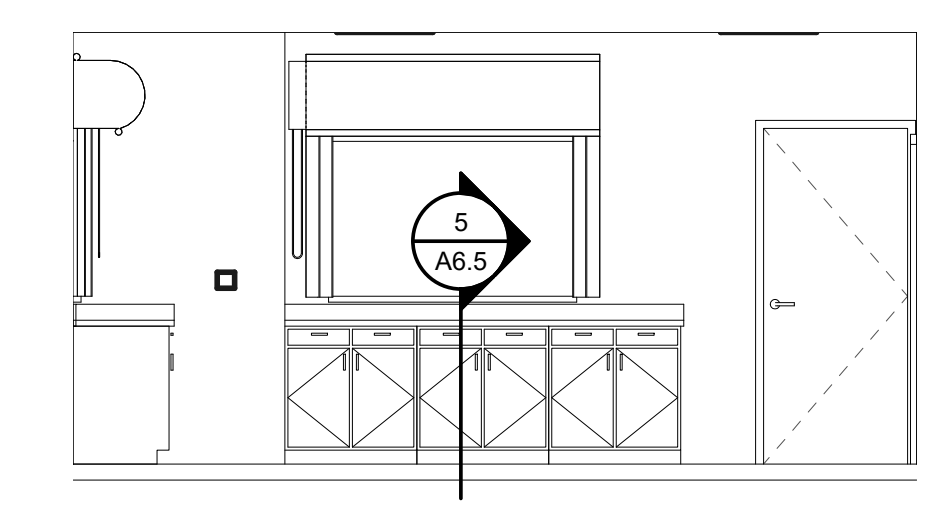
**5 WEIGHTS 122**  
 SCALE: 1/8" = 1'-0"



**6 CATERING LOOKING NORTH**  
 SCALE: 1/4" = 1'-0"



**7 CATERING LOOKING EAST**  
 SCALE: 1/4" = 1'-0"



**8 CATERING LOOKING SOUTH**  
 SCALE: 1/4" = 1'-0"

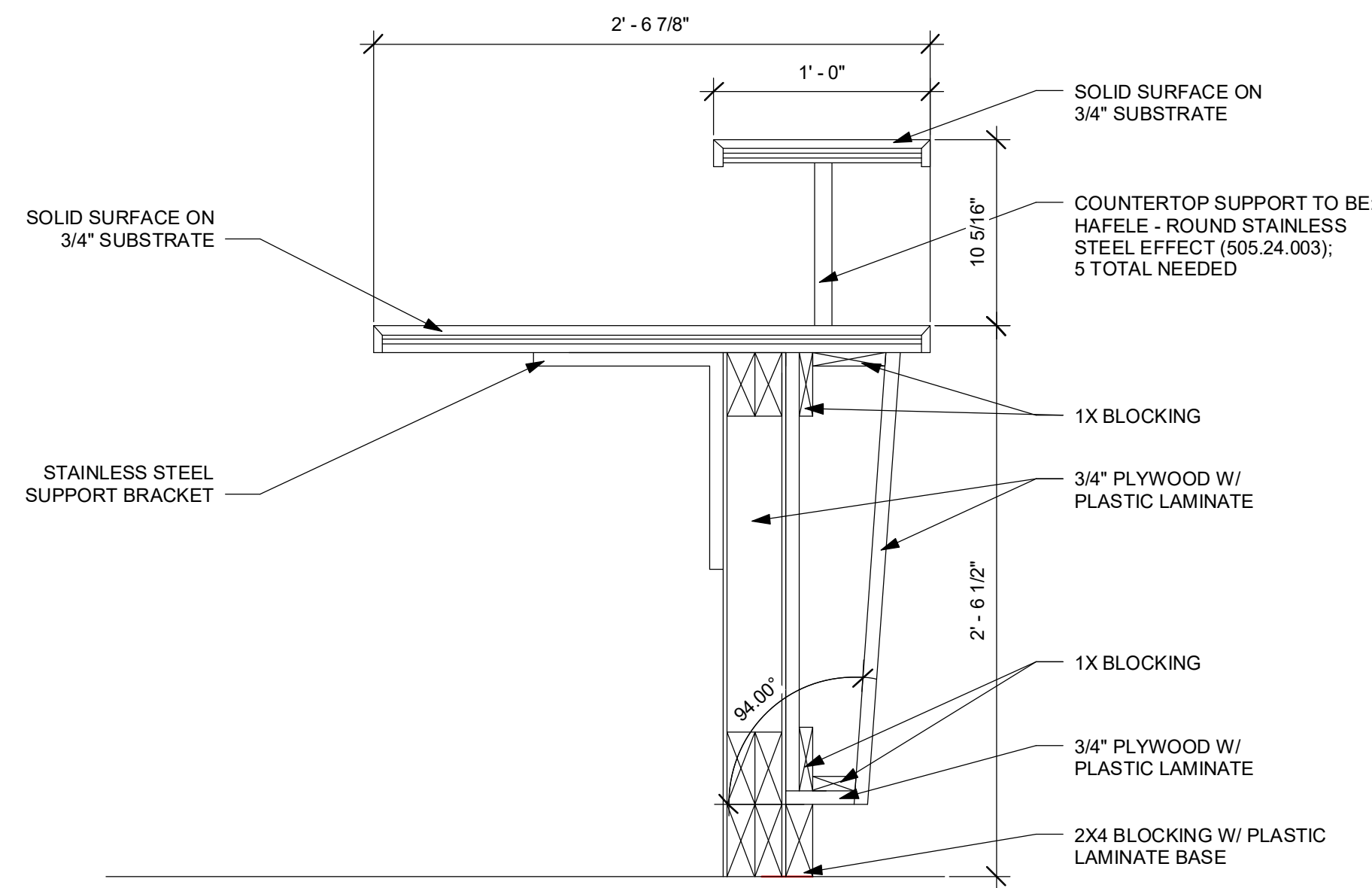


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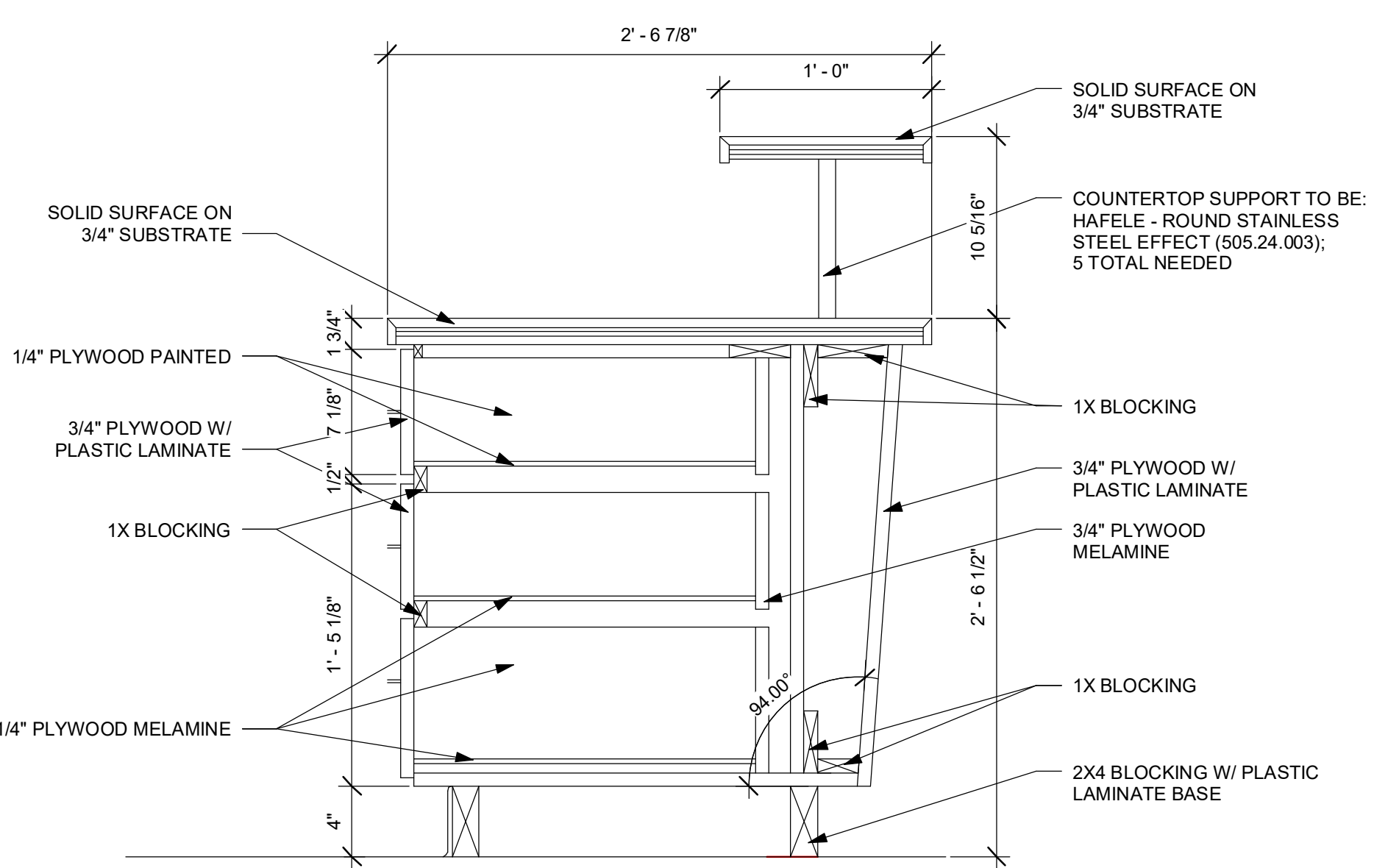
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**A6.3**  
 INTERIOR ELEVATIONS

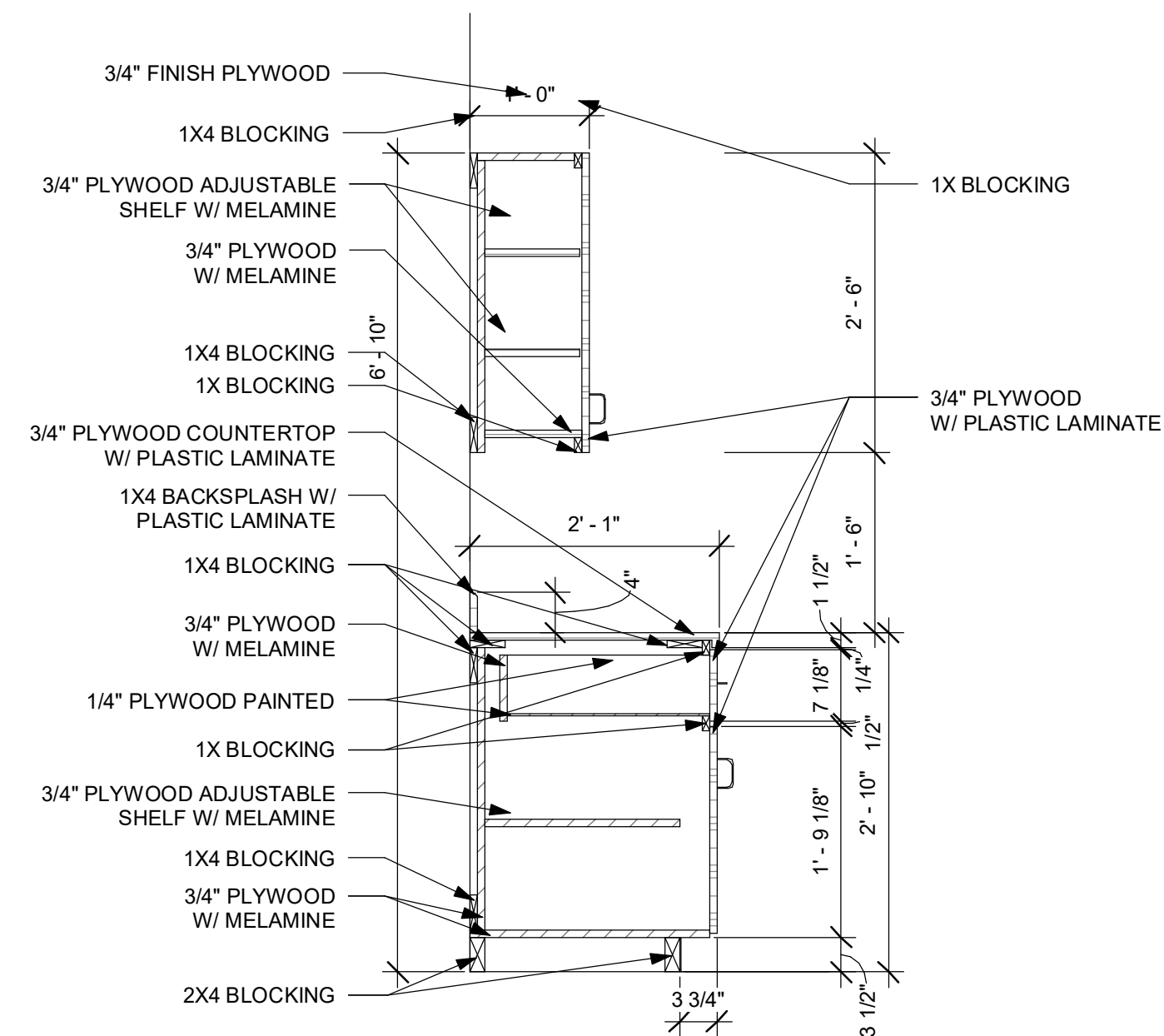




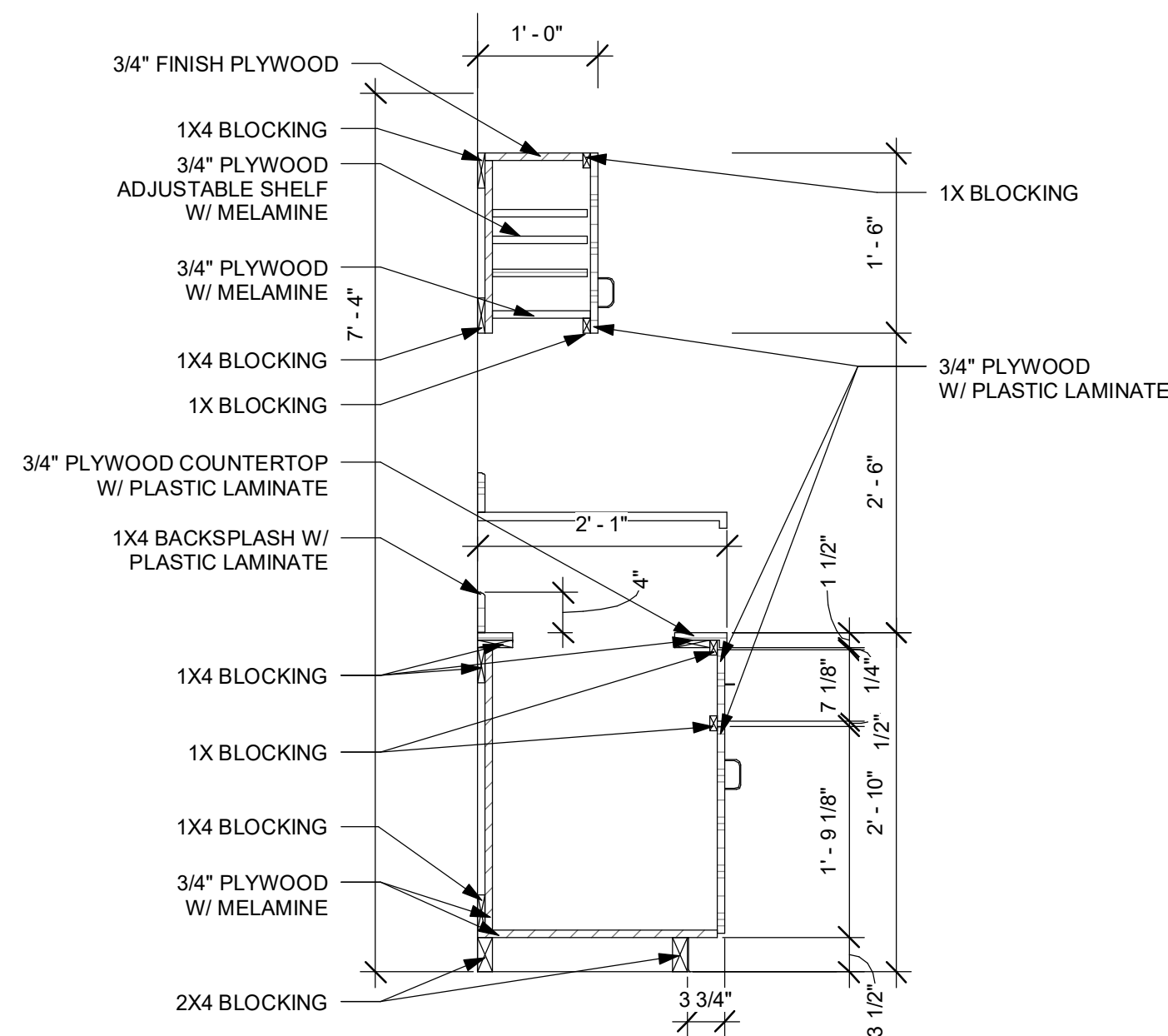
**1 RECEPTION DESK W/ WORKSTATION**  
SCALE: 1 1/2" = 1'-0"



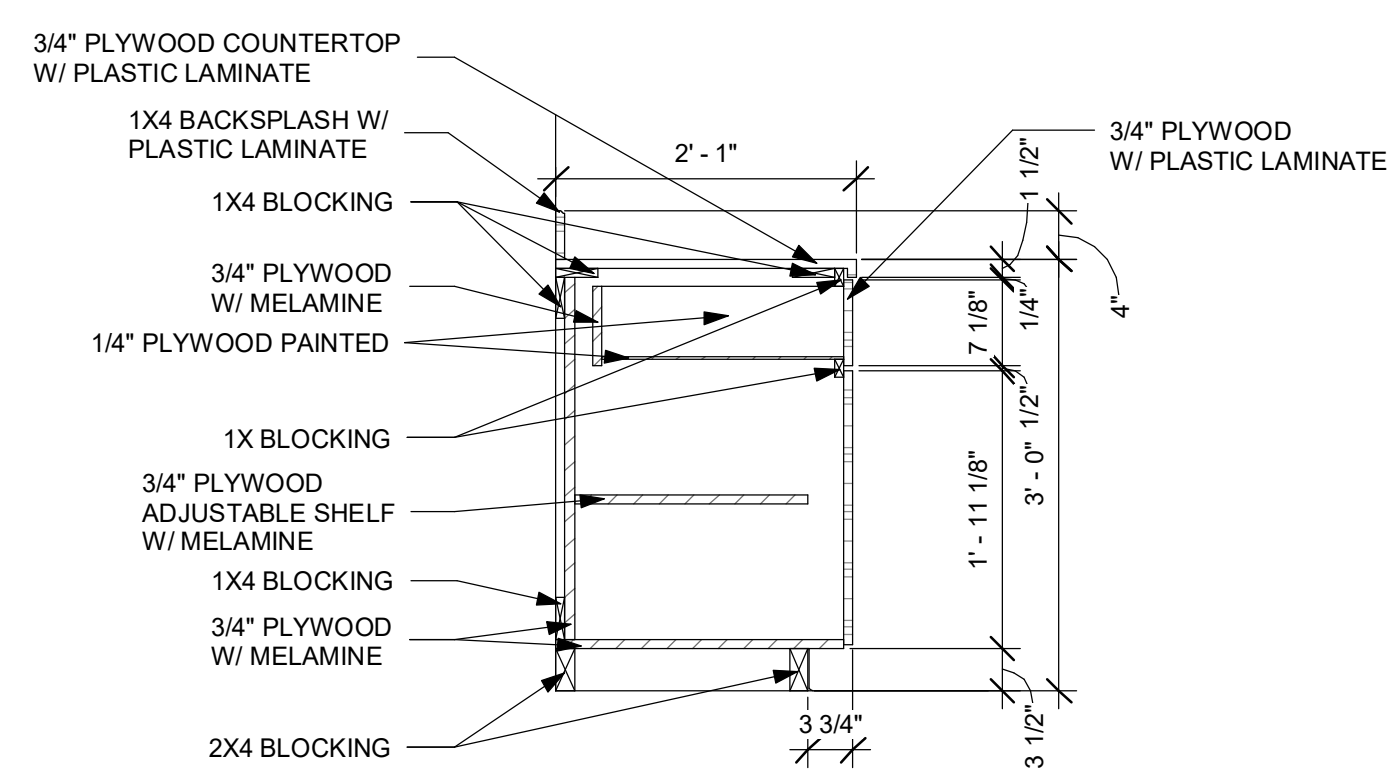
**2 RECEPTION DESK W/ 3 DRW. BASE**  
SCALE: 1 1/2" = 1'-0"



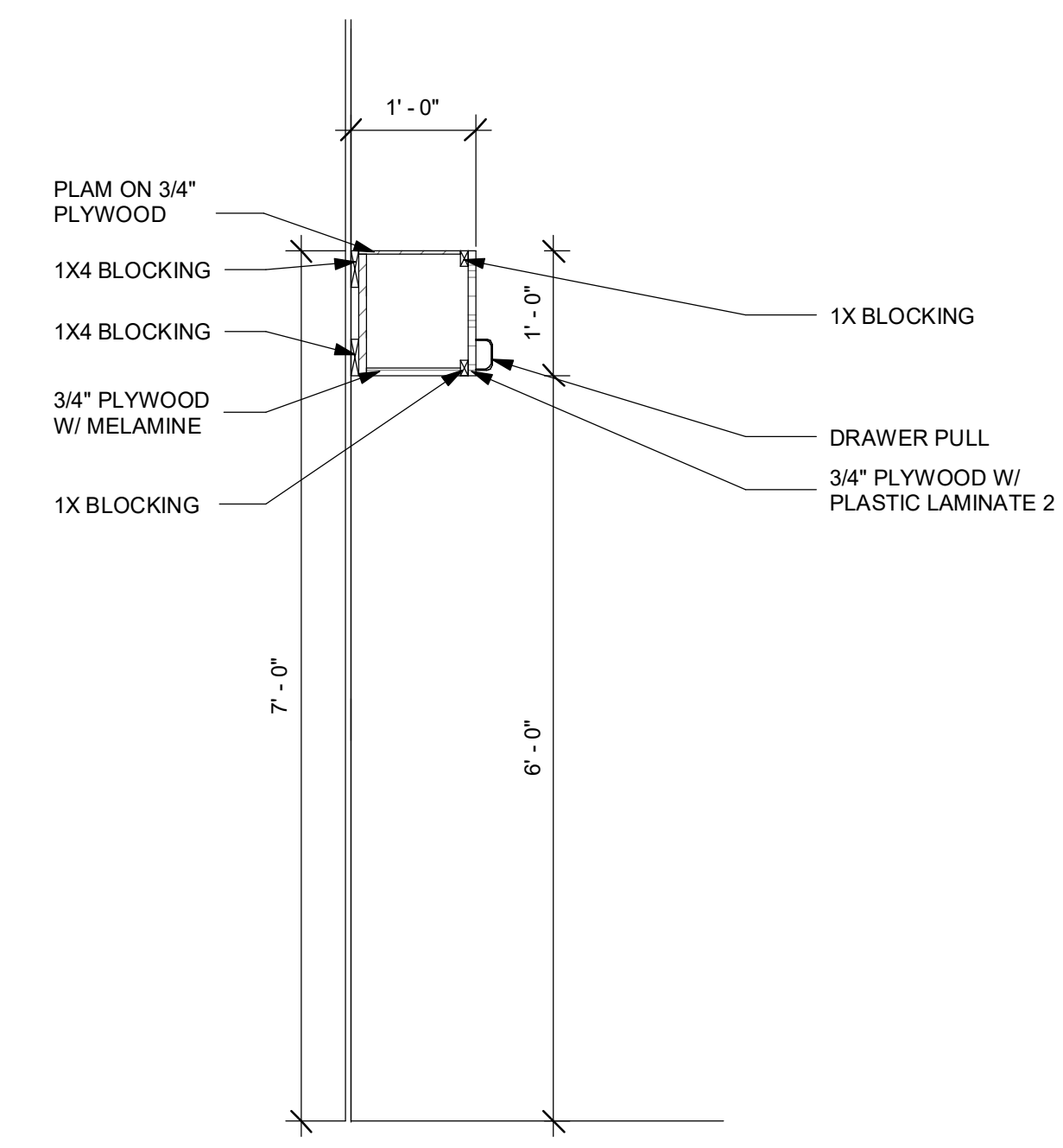
**3 TYPICAL CABINETS**  
SCALE: 3/4" = 1'-0"



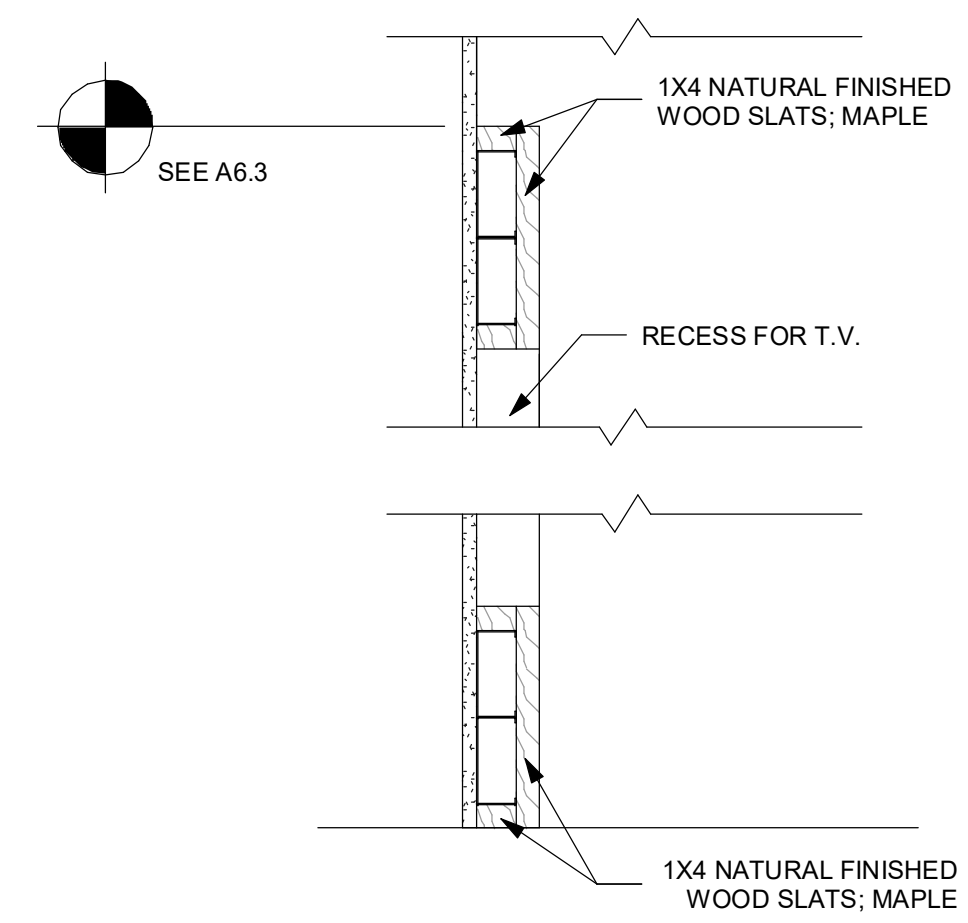
**4 TYPICAL SINK CABINETS**  
SCALE: 3/4" = 1'-0"



**5 TYPICAL BASE CABINET**  
SCALE: 3/4" = 1'-0"



**6 SECTION: WALL CABINETS @ REFRIGERATOR**  
SCALE: 3/4" = 1'-0"



**7 SECTION - MULTIPURPOSE ROOM - TV WALL**  
SCALE: 1 1/2" = 1'-0"

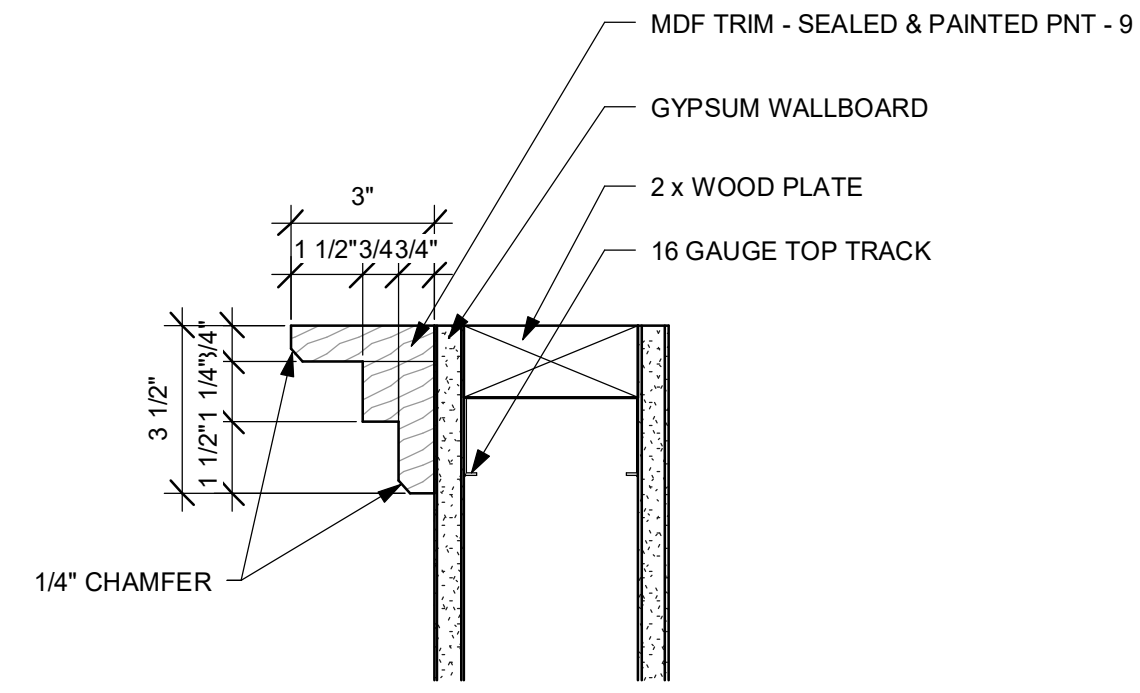
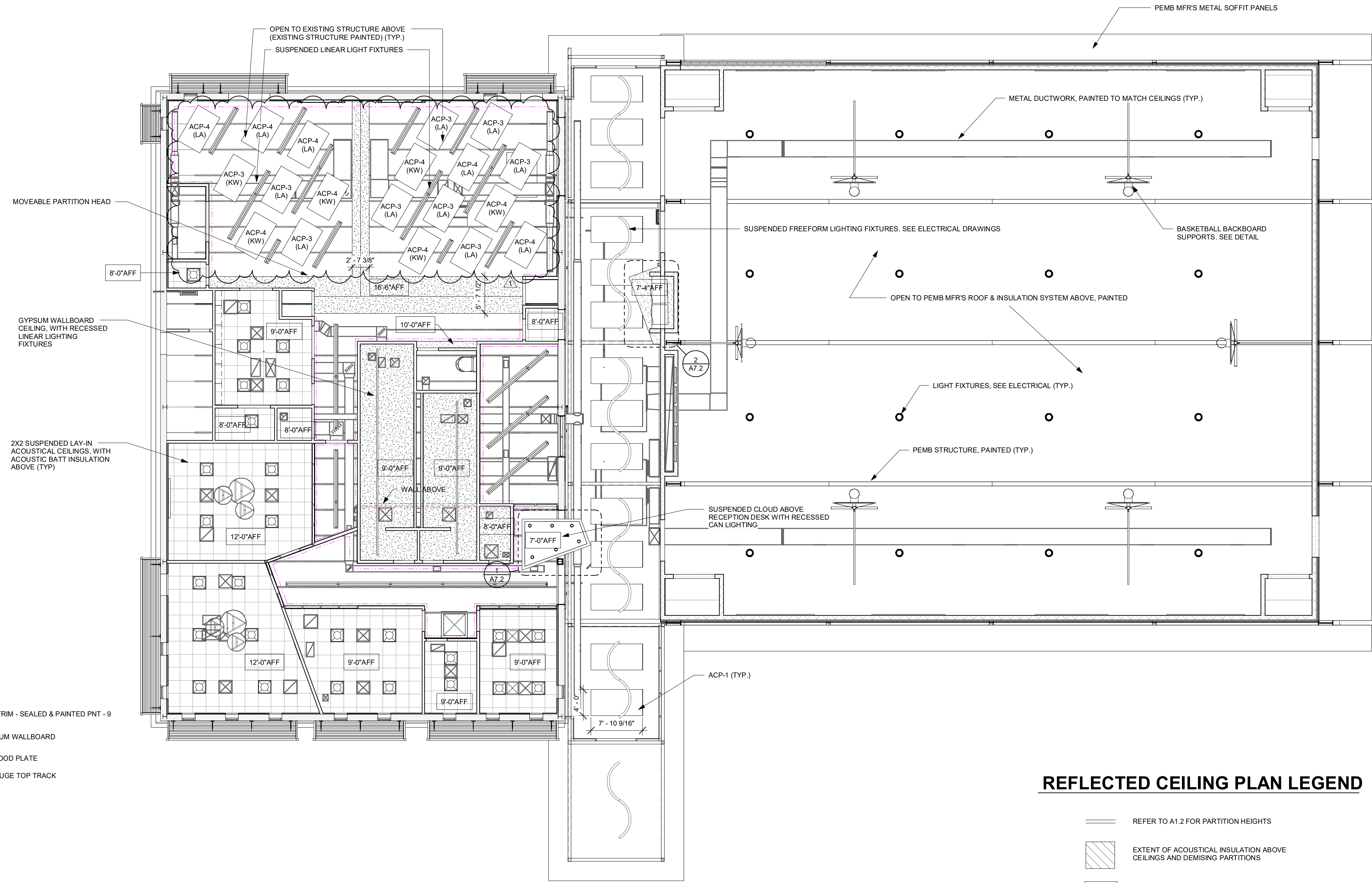
- MILLWORK GENERAL NOTES:**
1. ALL MILLWORK CONSTRUCTION TO BE PLASTIC LAMINATE COVERED. AWW SECTION 400 CUSTOM GRADE, FLUSH OVERLAY CONSTRUCTION.
  2. CONTRACTOR SHALL INSTALL ADEQUATE TREATED WOOD BLOCKING IN ALL STUD WALLS RECEIVING CASEWORK ANCHORS AND ATTACHMENTS.
  3. CONTRACTOR TO PROVIDE MILLWORK SHOP DRAWINGS.
  4. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
  5. ALL OPEN SHELVING TO COMPLY WITH AWW SECTION 400B CUSTOM GRADE.
  6. DOOR AND DRAWER FRONTS TO BE 3/4" SUBSTRATE WITH PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES.
  7. BODY OF DRAWERS TO BE 3/4" SUBSTRATE WITH MELAMINE FINISH ON ALL SURFACES.
  8. INTERIOR SHELVES TO BE 3/4" SUBSTRATE WITH MELAMINE FINISH ON ALL SIDES. COLOR TO MATCH THE INTERIORS OF THE CABINET IN WHICH IT OCCURS, UNLESS NOTED OTHERWISE.
  9. ALL SURFACES ON THE INTERIORS OF THE CABINETS TO BE MELAMINE CLAD.
  10. USE 2" GROMMETS AT COMPUTER STATIONS. FIELD INSTALL AT OWNERS DIRECTION.
  11. ALL NON METAL UNDERCOUNTER SUPPORT BRACKETS TO BE PLASTIC LAMINATE CLAD.
  12. ALL EXPOSED CORNERS ON WORKSURFACES TO HAVE A RADIUS EDGE.
  13. HARDWARE TO BE EQUAL TO:
    - HINGES: CONCEALED, SELF CLOSING GRASS 1003
    - SLIDES: BLUM 230M
    - BUMPERS: BLUM #TP-1950
    - STANDARDS AND CLIPS: KV225, ZING OR HOLES BORED AT 32MM CENTERS WITH HAFELE PINS 282.04.71.1 NICKEL
    - PULLS: EQUAL TO OUTWATER PLASTICS MELROSE COLLECTION 88002 STAINLESS STEEL FINISH



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**3 PARTITION CAP TRIM**  
 SCALE: 3" = 1'-0"

**1 1ST FLOOR REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"



**REFLECTED CEILING PLAN LEGEND**

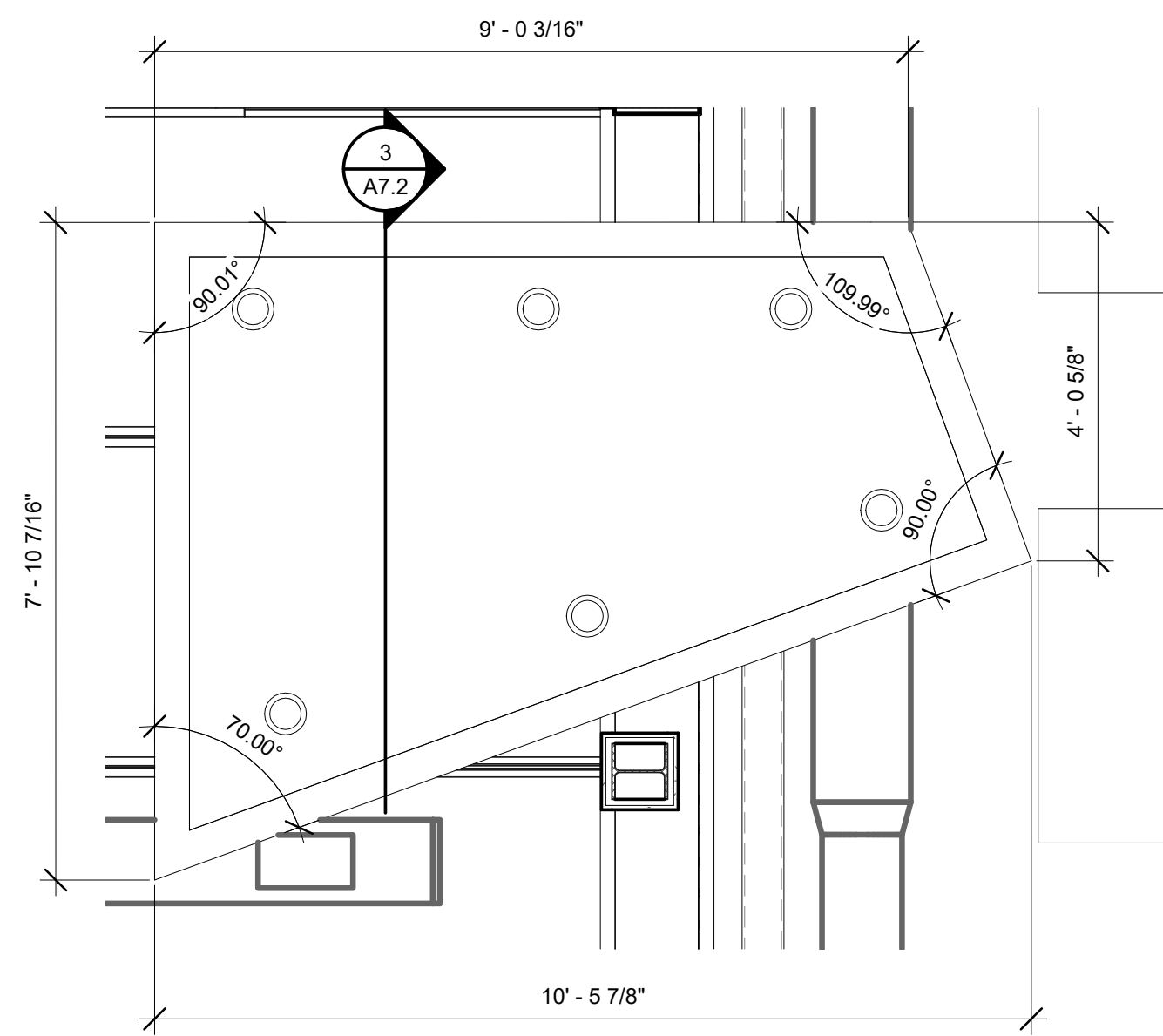
- REFER TO A1.2 FOR PARTITION HEIGHTS
- EXTENT OF ACOUSTICAL INSULATION ABOVE CEILINGS AND DEMISING PARTITIONS
- GYPSUM WALLBOARD CEILING
- 2 X 4' SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 2' SUSPENDED ACOUSTICAL CEILING SYSTEM
- 2 X 4' LIGHTING FIXTURE
- 1 X 4' LIGHTING FIXTURE OR PENDANT FIXTURE
- 4' STRIP LIGHT FIXTURE
- RECESSED CAN LIGHT FIXTURE
- PENDANT LIGHT FIXTURE
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- SPRINKLER HEAD (CENTER WITHIN PANEL) SEE FIRE PROTECTION DRAWINGS
- WALL CAP SIDE DICTATION



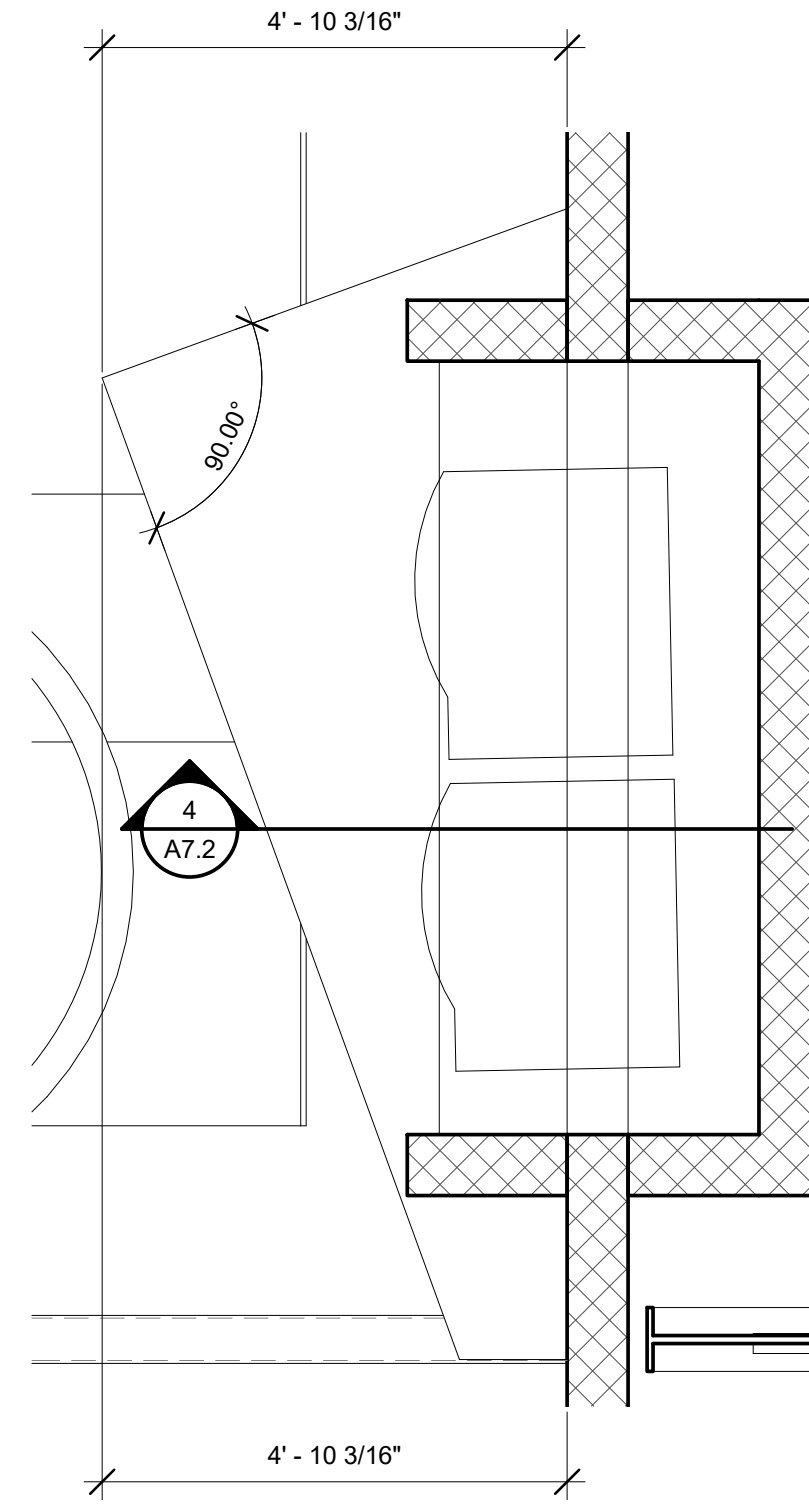
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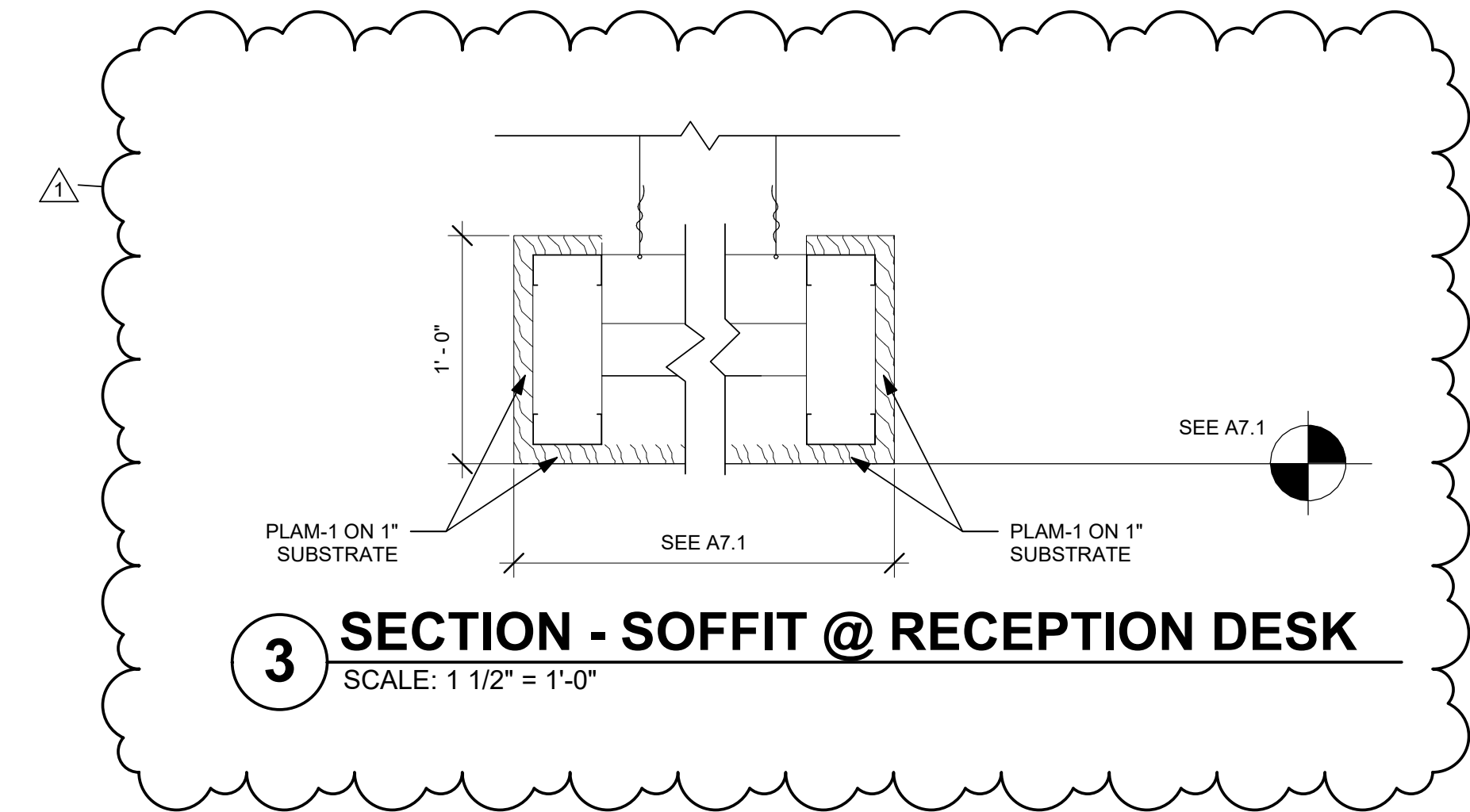




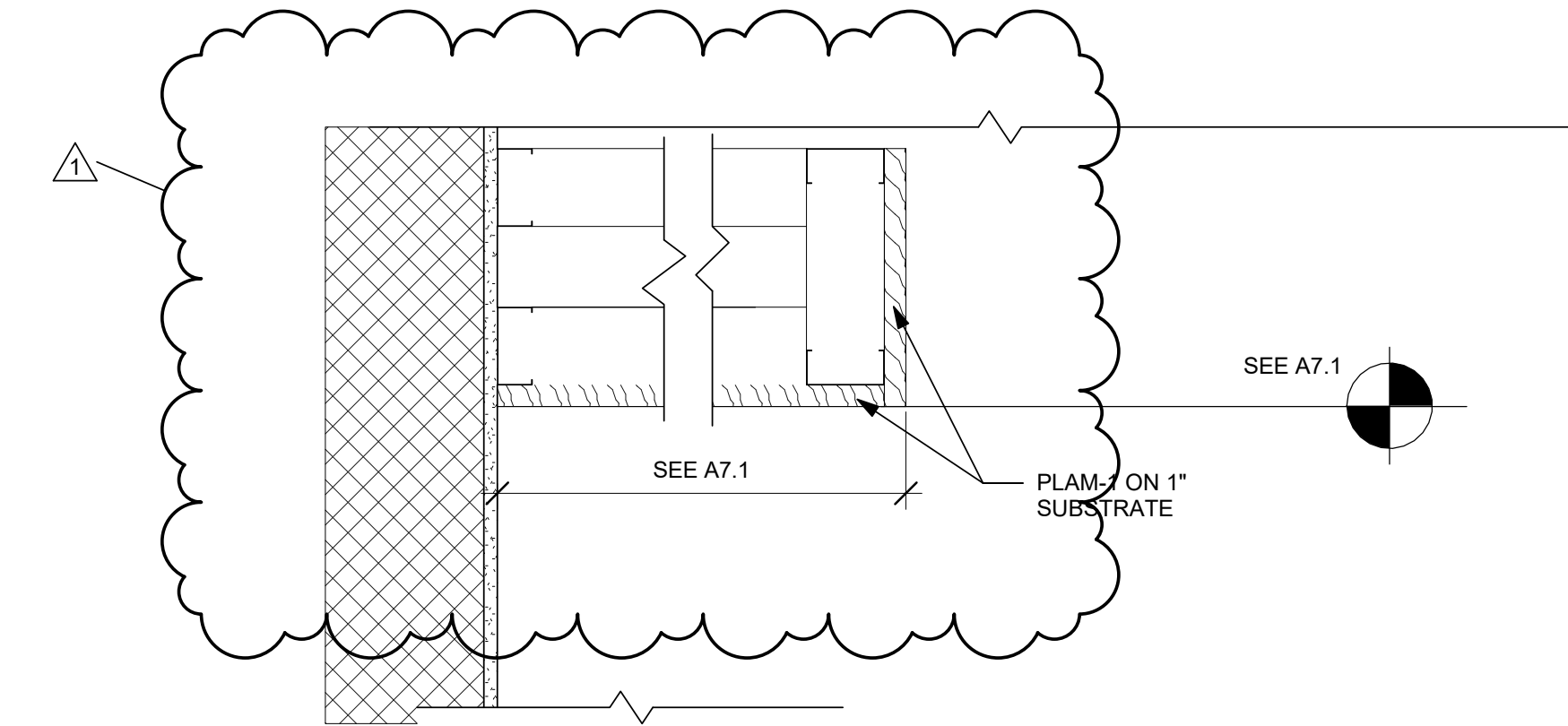
**1 ENLARGED PLAN - SOFFIT @ RECEPTION DESK**  
SCALE: 1/2" = 1'-0"



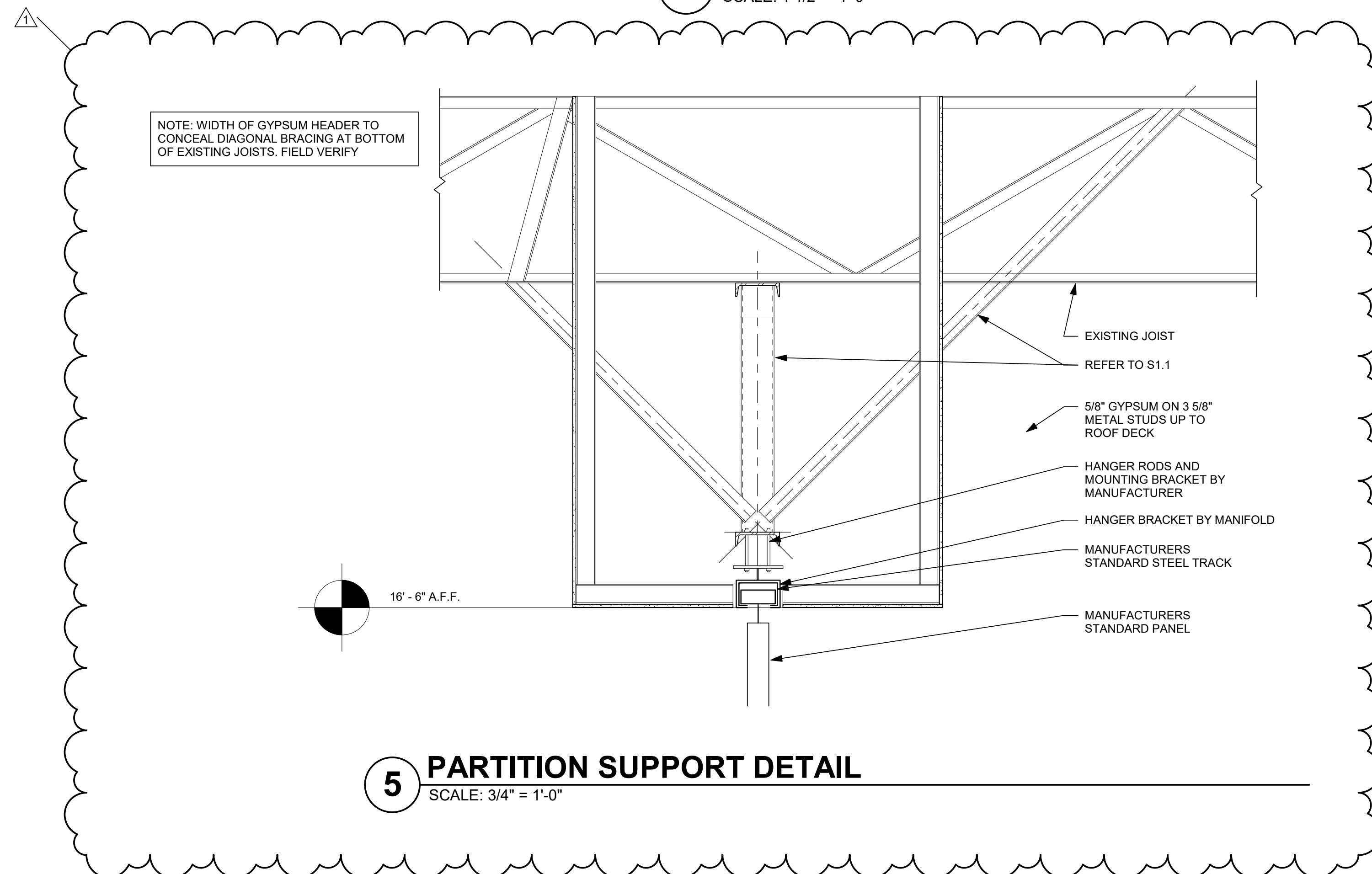
**2 ENLARGED PLAN - SOFFIT @ VENDING**  
SCALE: 1/2" = 1'-0"



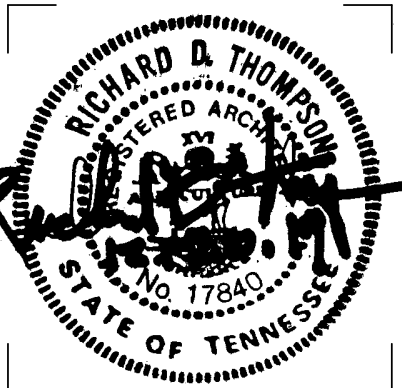
**3 SECTION - SOFFIT @ RECEPTION DESK**  
SCALE: 1 1/2" = 1'-0"



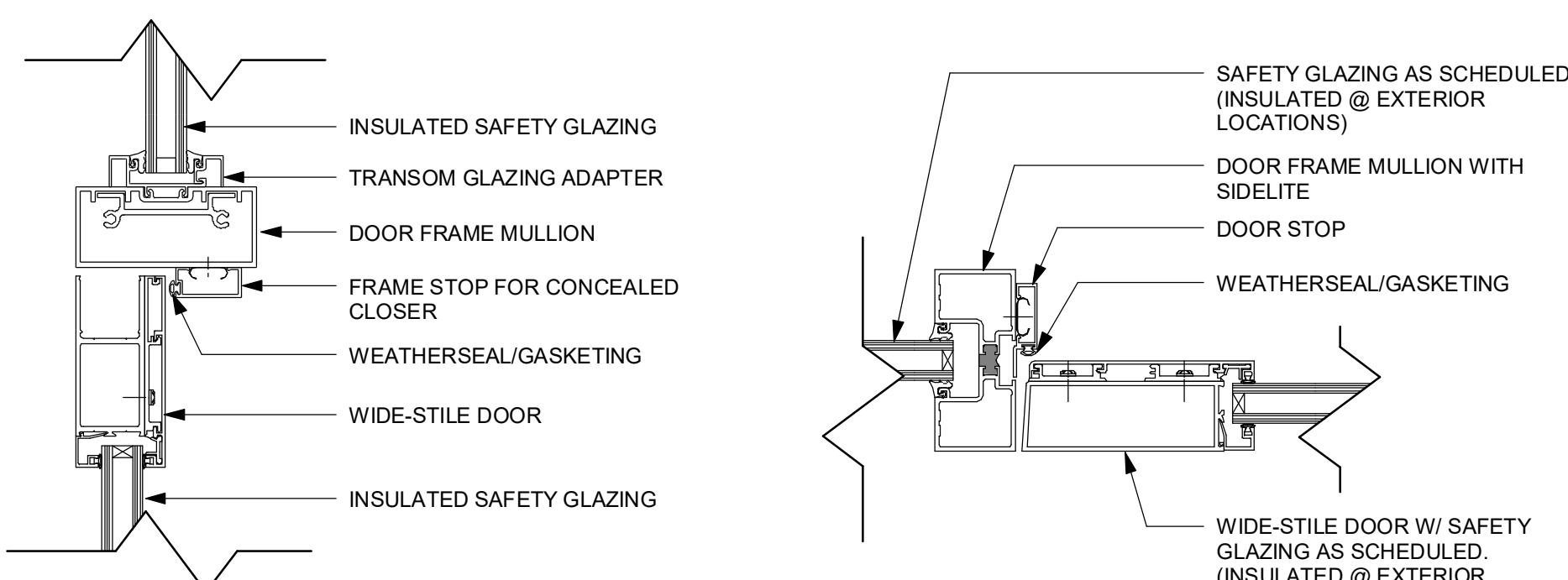
**4 SECTION - SOFFIT @ VENDING**  
SCALE: 1 1/2" = 1'-0"



**5 PARTITION SUPPORT DETAIL**  
SCALE: 3/4" = 1'-0"

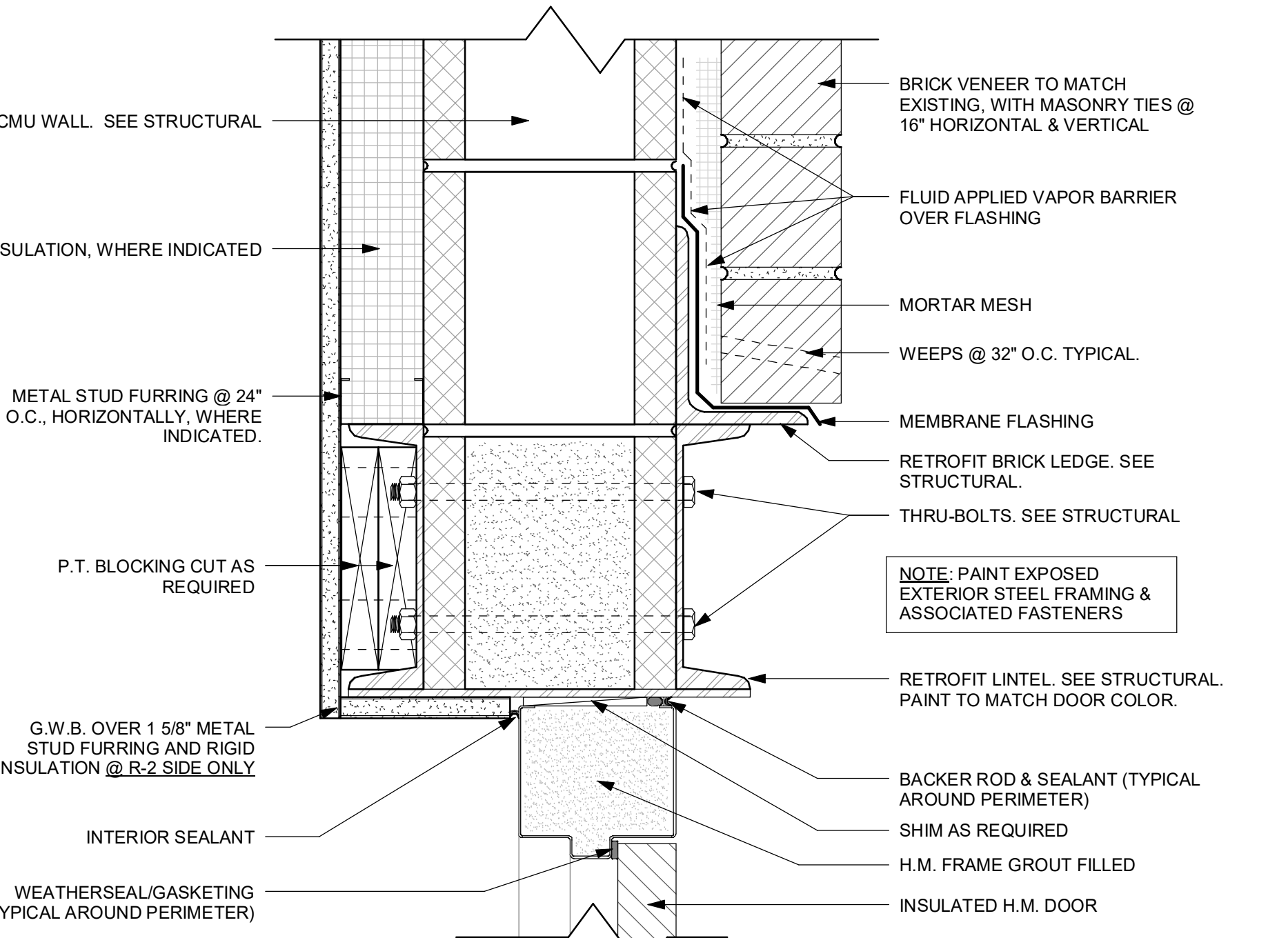




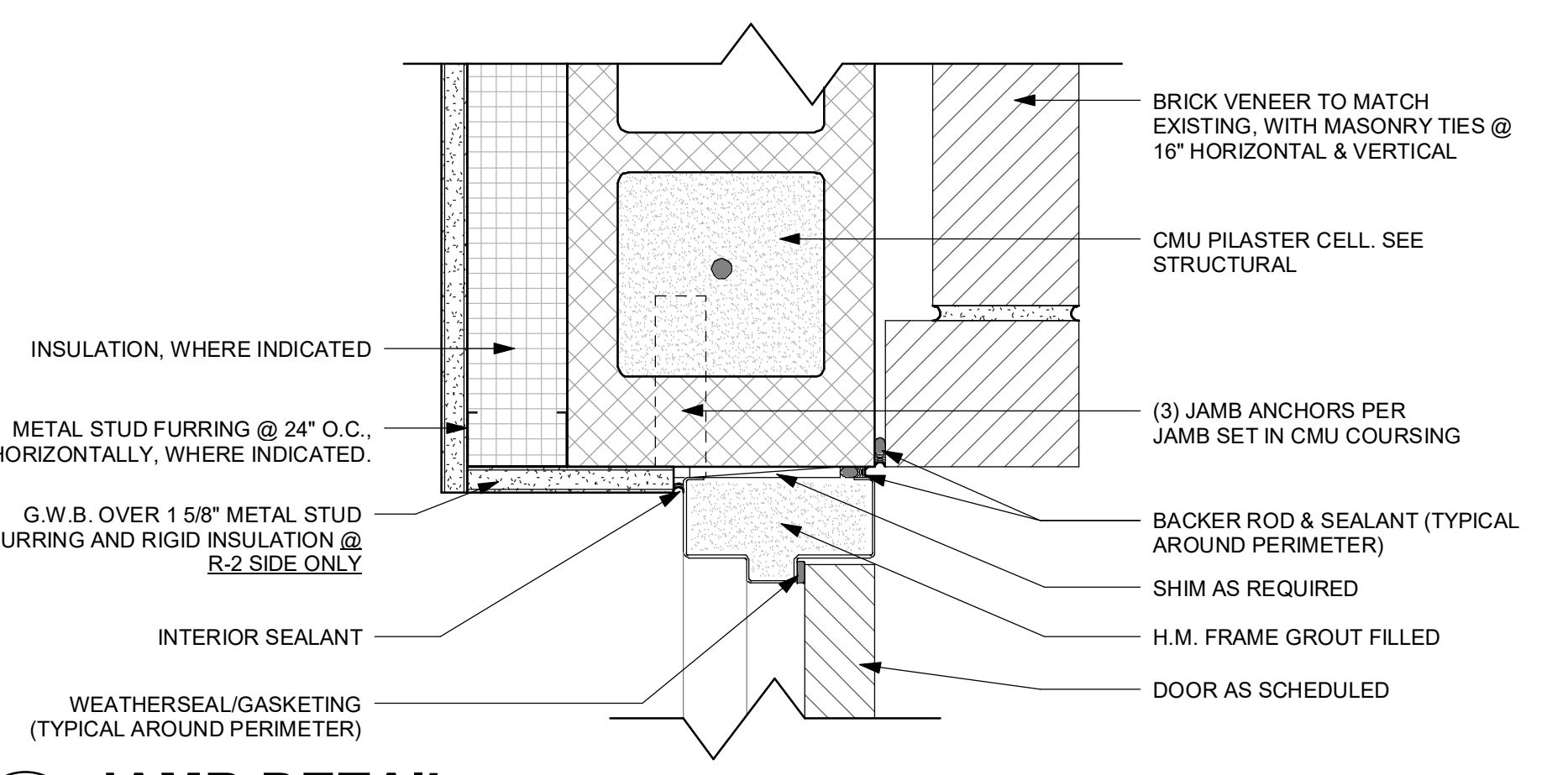


**1 HEAD DETAIL**  
SCALE: 3" = 1'-0"

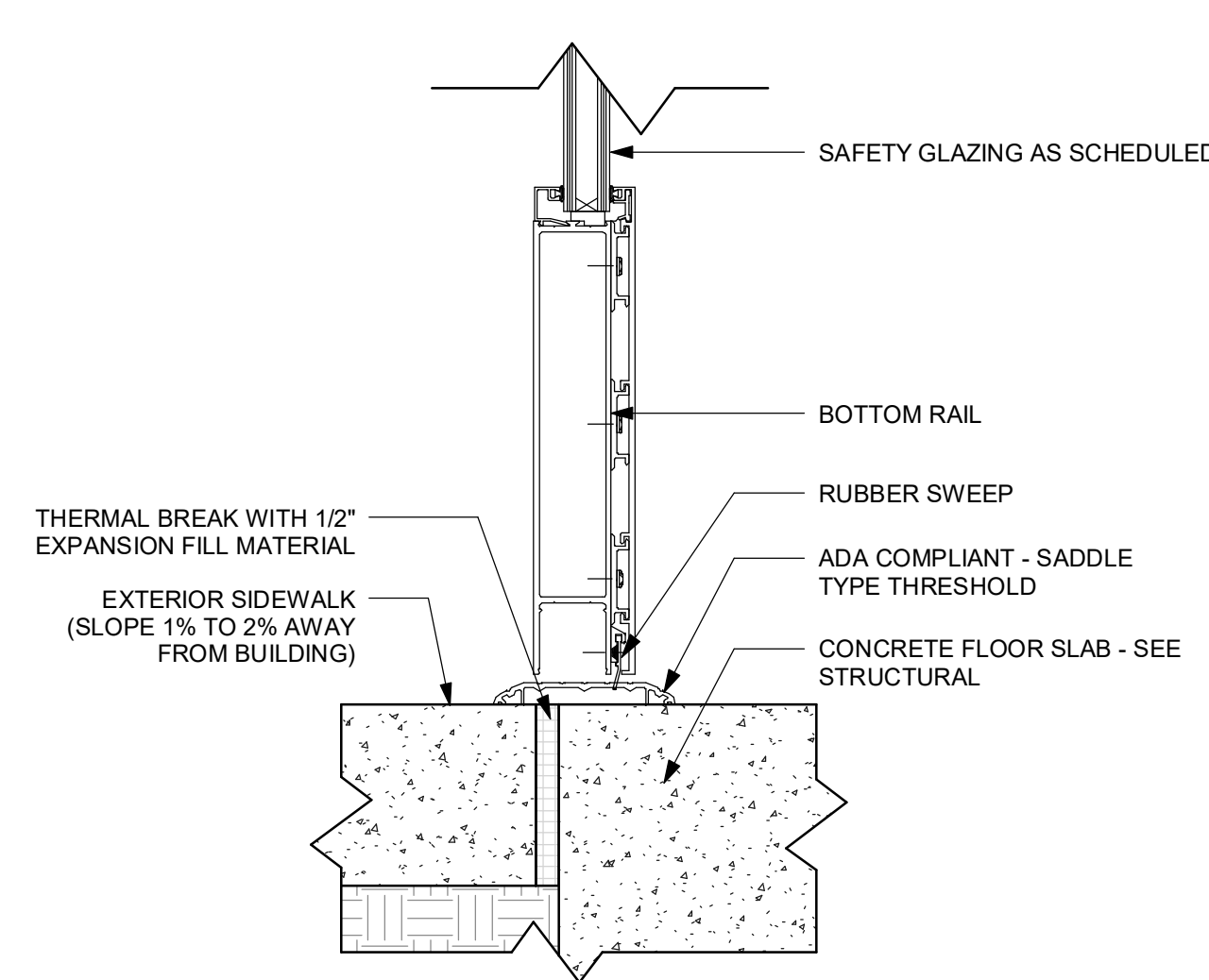
**2 JAMB DETAIL**  
SCALE: 3" = 1'-0"



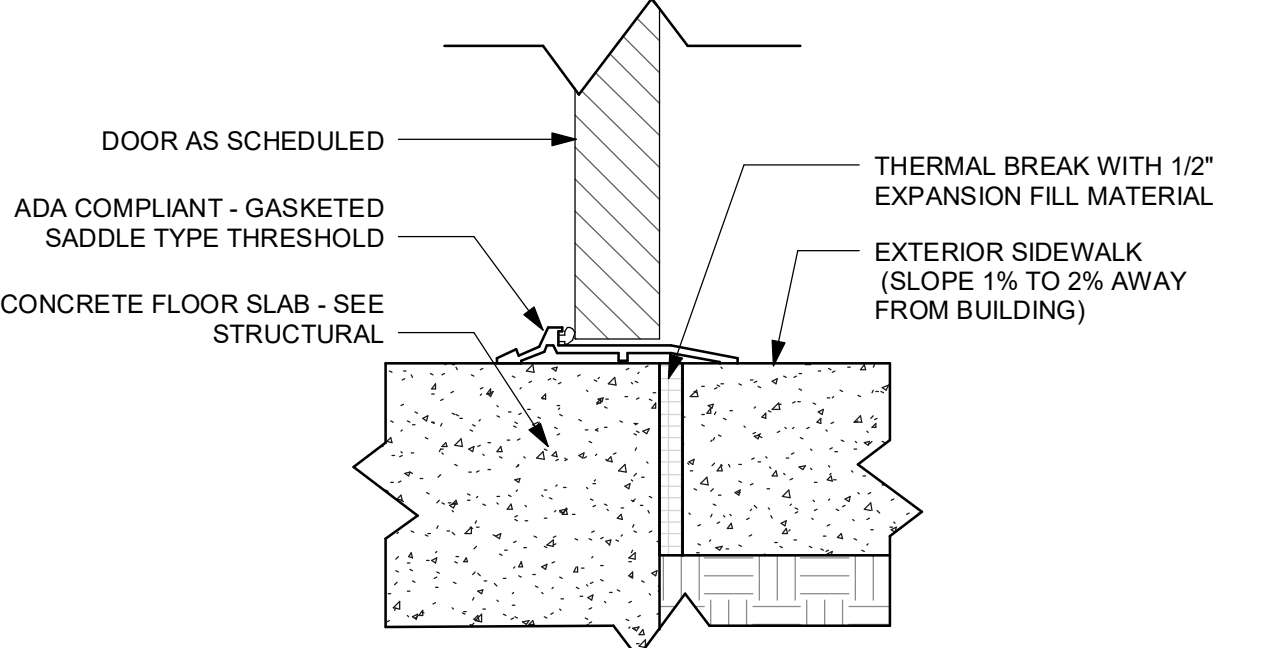
**4 HEAD DETAIL**  
SCALE: 3" = 1'-0"



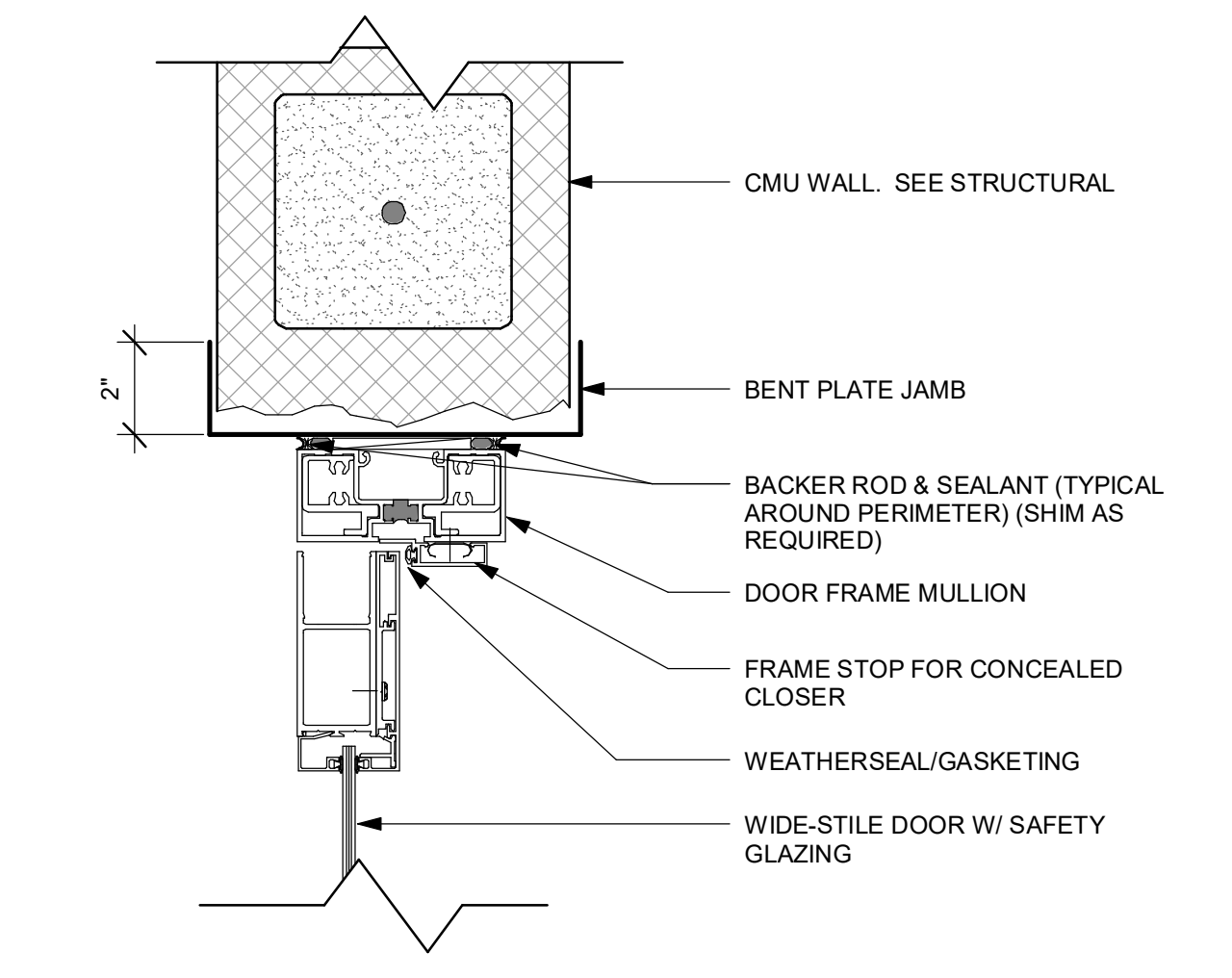
**5 JAMB DETAIL**  
SCALE: 3" = 1'-0"



**3 SILL DETAIL**  
SCALE: 3" = 1'-0"



**6 SILL DETAIL**  
SCALE: 3" = 1'-0"



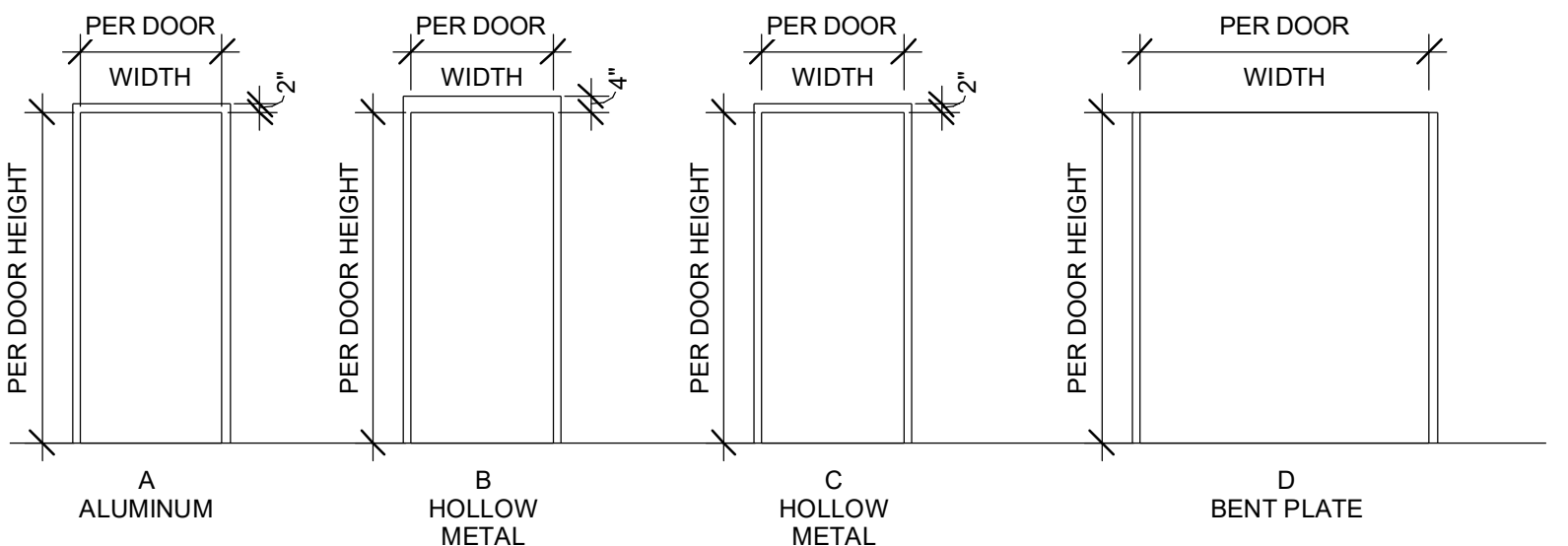
**7 JAMB DETAIL**  
SCALE: 3" = 1'-0"

**DOOR SCHEDULE**

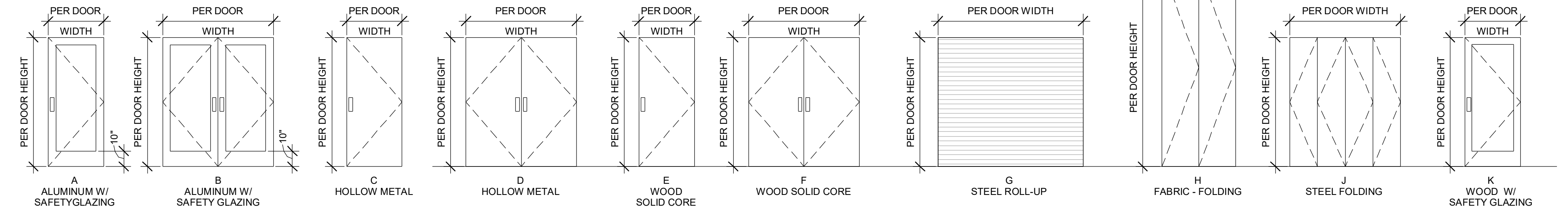
MARK	TYPE	DOOR			DOOR SIZE		FRAME			HARDWARE			COMMENTS	
		MATERIAL	DOOR FINISH	GLAZING	DOOR WIDTH	DOOR HEIGHT	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL		
001	B	ALUMINUM	CLEAR ANODIZED	IS	6'-0"	7'-0"	A	ALUMINUM	CLEAR ANODIZED	1/A8.1	2/A8.1	3/A8.1	1	
002	C	INSULATED H.M.	PAINTED	---	3'-0"	7'-0"	B	INSULATED H.M.	PAINTED	4/A8.1	5/A8.1	6/A8.1	2	
003	EX	EXISTING	PAINTED	---	6'-0"	7'-0"	EXISTING	EXISTING	PAINTED	---	---	---	3	EXISTING, UPGRADE AS REQ'D
004	C	INSULATED H.M.	PAINTED	---	3'-0"	7'-0"	B	INSULATED H.M.	PAINTED	4/A8.1	5/A8.1	6/A8.1	4	
005	C	INSULATED H.M.	PAINTED	---	3'-0"	7'-0"	B	INSULATED H.M.	PAINTED	4/A8.1	5/A8.1	6/A8.1	4	
006	B	ALUMINUM	CLEAR ANODIZED	IS	6'-0"	7'-0"	A	ALUMINUM	CLEAR ANODIZED	1/A8.1	2/A8.1	3/A8.1	1	
007	D	INSULATED H.M.	PAINTED	---	6'-0"	7'-0"	B	INSULATED H.M.	PAINTED	1/A8.3	2/A8.3	6/A8.1	3	
008	C	INSULATED H.M.	PAINTED	---	3'-0"	7'-0"	B	INSULATED H.M.	PAINTED	1/A8.3	2/A8.3	6/A8.1	2	
009	F	WOOD	STAINED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	5	
010	F	WOOD	STAINED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	5	
011	F	WOOD	STAINED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	5	
012	F	WOOD	STAINED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	5	
013	D	HOLLOW METAL	PAINTED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	6	
014	D	HOLLOW METAL	PAINTED	---	6'-0"	7'-0"	B	HOLLOW METAL	PAINTED	3/A8.3	4/A8.3	---	6	
015	G	STEEL SLAT	PAINTED	---	12'-0"	7'-4"	D	STEEL	PAINTED	5/A8.3	6/A8.3	---	7	
016	G	STEEL SLAT	PAINTED	---	12'-0"	7'-4"	D	STEEL	PAINTED	5/A8.3	6/A8.3	---	7	
017	F	WOOD	STAINED	---	6'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	5	
018	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	8	
019	H	BY MANUFACTURER	MATCH PANELS	---	3'-8"	16'-0"	---	---	---	---	---	---	(none)	POCKET DOOR BY MANUFACTURER
020	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	9	
021	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	9	
022	H	BY MANUFACTURER	MATCH PANELS	---	3'-8"	16'-0"	---	---	---	---	---	---	(none)	POCKET DOOR BY MANUFACTURER
023	G	STEEL SLAT	PREFINISHED	---	6'-1 1/2"	4'-11 3/8"	---	HOLLOW METAL	PAINTED	9/A8.3	10/A8.3	11/A8.3	7	
024	G	STEEL SLAT	PREFINISHED	---	6'-1 1/2"	4'-11 3/8"	---	HOLLOW METAL	PAINTED	9/A8.3	10/A8.3	11/A8.3	7	
025	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	10	
026	J	WOOD	STAINED	---	5'-0"	6'-8"	C	HOLLOW METAL	PAINTED	15/A8.3	8/A8.3	---	(none)	VERIFY TRACK AND HINGES ARE INCLUDED
027	C	HOLLOW METAL	PAINTED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	8	
028	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	11	
029	K	WOOD	STAINED	S	3'-0"	7'-0"	C	ALUMINUM	CLEAR ANODIZED	14/A8.3	14/A8.3	---	12	
030	A	ALUMINUM	CLEAR ANODIZED	S	3'-0"	6'-10"	A	ALUMINUM	CLEAR ANODIZED	14/A8.3	2/A8.1	---	12	
031	A	ALUMINUM	CLEAR ANODIZED	S	3'-0"	6'-10"	A	ALUMINUM	CLEAR ANODIZED	14/A8.3	2/A8.1	---	12	
032	K	WOOD	STAINED	S	3'-0"	7'-0"	C	ALUMINUM	CLEAR ANODIZED	14/A8.3	14/A8.3	---	13	
033	K	WOOD	STAINED	S	3'-0"	7'-0"	C	ALUMINUM	CLEAR ANODIZED	14/A8.3	14/A8.3	---	12	
034	K	WOOD	STAINED	S	3'-0"	7'-0"	C	ALUMINUM	CLEAR ANODIZED	14/A8.3	14/A8.3	---	13	
035	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	12	
036	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	12	
037	E	WOOD	STAINED	---	3'-0"	7'-0"	C	HOLLOW METAL	PAINTED	7/A8.3	8/A8.3	---	11	
038	A	ALUMINUM	CLEAR ANODIZED	S	3'-0"	7'-0"	A	ALUMINUM	CLEAR ANODIZED	13/A8.3	7/A8.1	---	13	

**DOOR HARDWARE SCHEDULE**

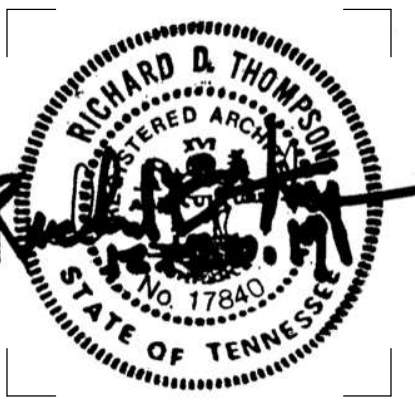
SET #	HARDWARE TYPE	HINGES	LOCKSET	PANIC HARDWARE	PUSH/PULL PLATE	FLUSH BOLTS	CLOSER	HOLD OPEN DEVICE	WEATHER STRIPPING	THRESHOLD	KICK PLATE	SWEEP
1	STOREFRONT	BY MFR	ELECTRONIC	CROSSBAR	BY MFR	CONCEALED / PANIC	CONCEALED	---	GASKET-TYPE	ADA GASKETED	---	RUBBER
2	EXTERIOR - SINGLE	1-1/2 PAIR BB	CYLINDER	DELAYED, PUSHBAR	---	---	SURFACE	---	GASKET-TYPE	ADA GASKETED	---	RUBBER
3	EXTERIOR - DOUBLE	3 PAIR BB	CYLINDER	DELAYED, PUSHBAR	---	CONCEALED / PANIC	---	---	GASKET-TYPE	ADA GASKETED	---	RUBBER
4	EXTERIOR - KEY CARD SECURE	1-1/2 PAIR BB	ELECTRONIC	---	---	---	SURFACE	CLOSER	GASKET-TYPE	ADA GASKETED	---	---
5	STORAGE - DOUBLE	3 PAIR	CYLINDER	---	---	TOP & BOTTOM INACTIVE LEAF	---	KICK-DOWN	---	---	10"x34"	---
6	INTERIOR - DOUBLE	3 PAIR-180°	CLASSROOM	CROSS BAR	PULL TRIM - LEVER TYPE	CONCEALED / PANIC	SURFACE-180°	CLOSER	---	---	10"x34"	---
7	ROLL-UP	---	CYLINDER	---	---	---	---	INTEGRATED	---	---	---	---
8	KEY CARD SECURE	1-1/2 PAIR	ELECTRONIC	---	---	CONCEALED / PANIC	---	KICK-DOWN	SILENCERS	---	---	---
9	STORAGE - SINGLE	1-1/2 PAIR	STOREROOM	---	---	---	SURFACE	CLOSER	SILENCERS	---	10"x34"	---
10	BASIC SECURED	1-1/2 PAIR	CLASSROOM	---	---	---	SURFACE	KICK-DOWN	SILENCERS	---	10"x34"	---
11	RESTROOM	1-1/2 PAIR	PRIVACY	---	---	---	DOOR MOUNT	CLOSER	SILENCERS	---	---	---
12	PASSAGE	1-1/2 PAIR	PASSAGE	---	PUSH/PULL	---	CONCEALED	CLOSER	SILENCERS	---	---	---
13	OFFICE	1-1/2 PAIR	OFFICE	---	---	---	SURFACE	CLOSER	SILENCERS	---	---	---



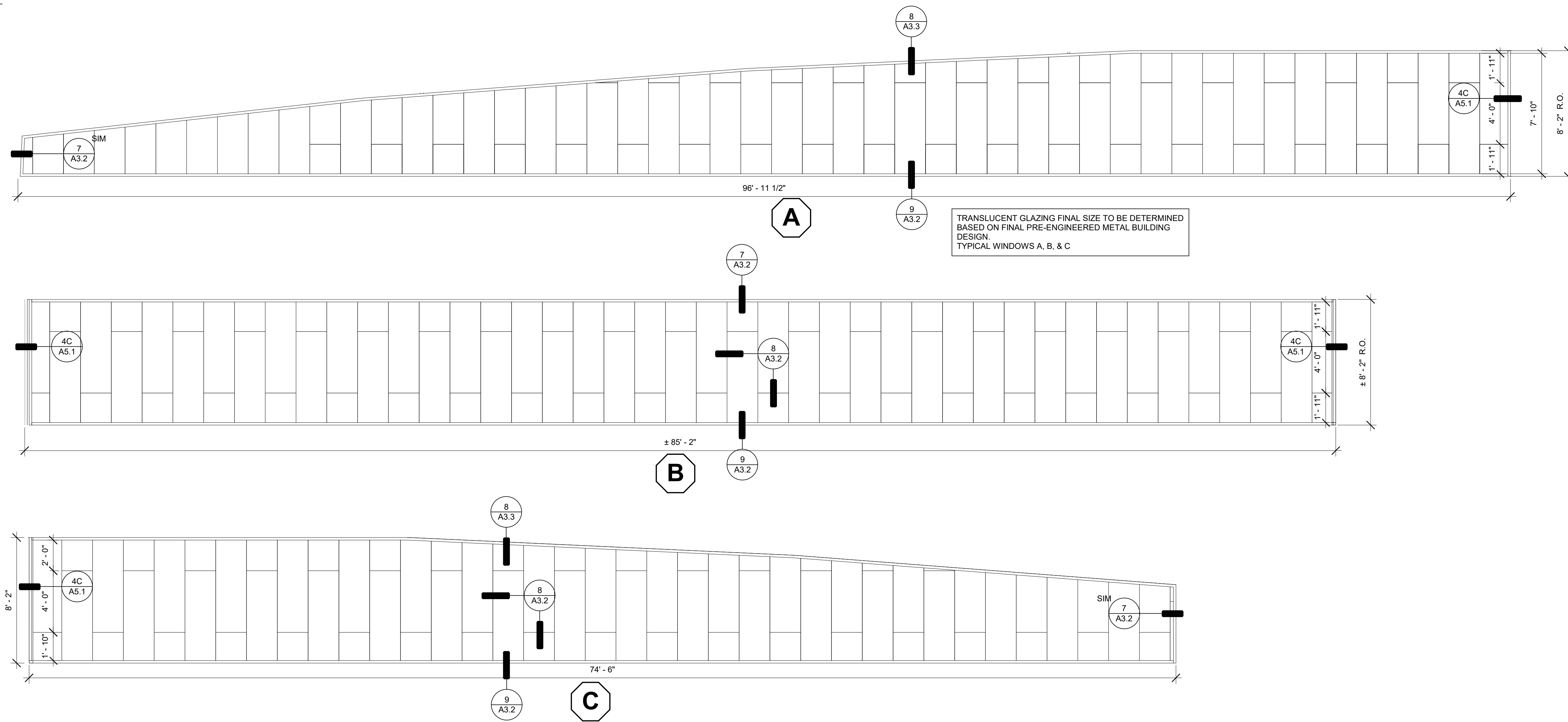
**FRAME TYPE**  
SCALE: 1/4" = 1'-0"



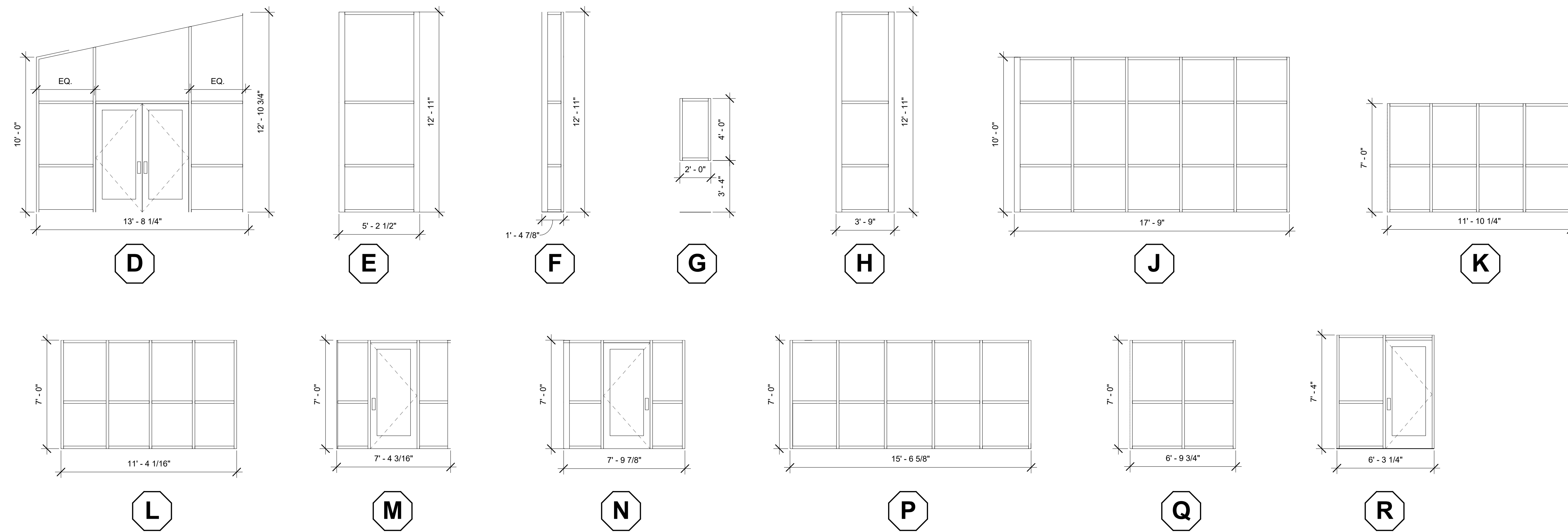
**DOOR TYPE**  
SCALE: 1/4" = 1'-0"  
GLAZING:  
IS = INSULATED SAFETY GLAZING  
S = SAFETY GLAZING







TRANSLUCENT GLAZING FINAL SIZE TO BE DETERMINED  
 BASED ON FINAL PRE-ENGINEERED METAL BUILDING  
 DESIGN.  
 TYPICAL WINDOWS A, B, & C



GLAZING SCHEDULE: (WINDOWS D - R)  
 INTERIOR: 1/4\"/>

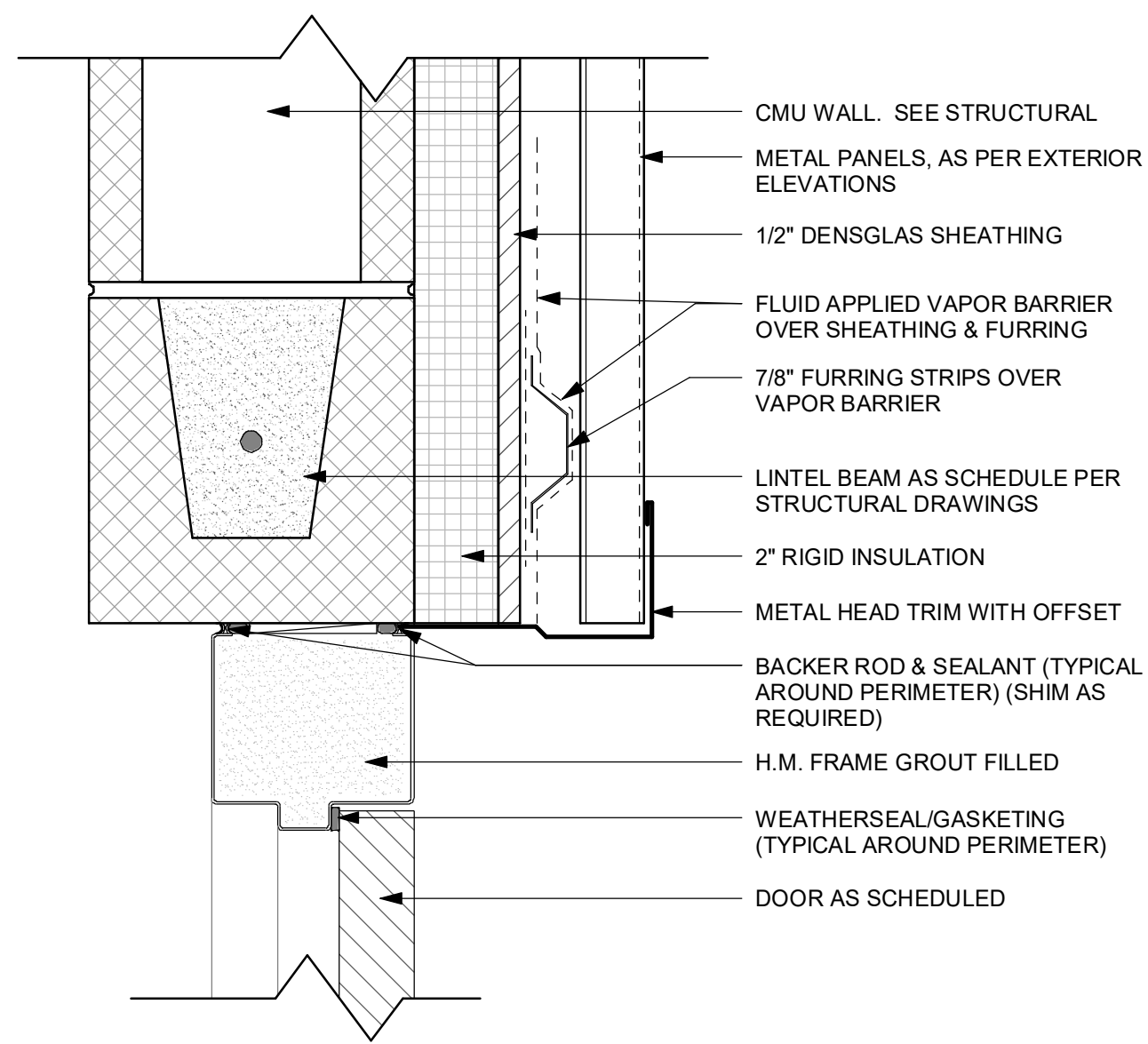


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 INITIAL ISSUE 12-20-19  
 1 Addendum 4 01/10/2020

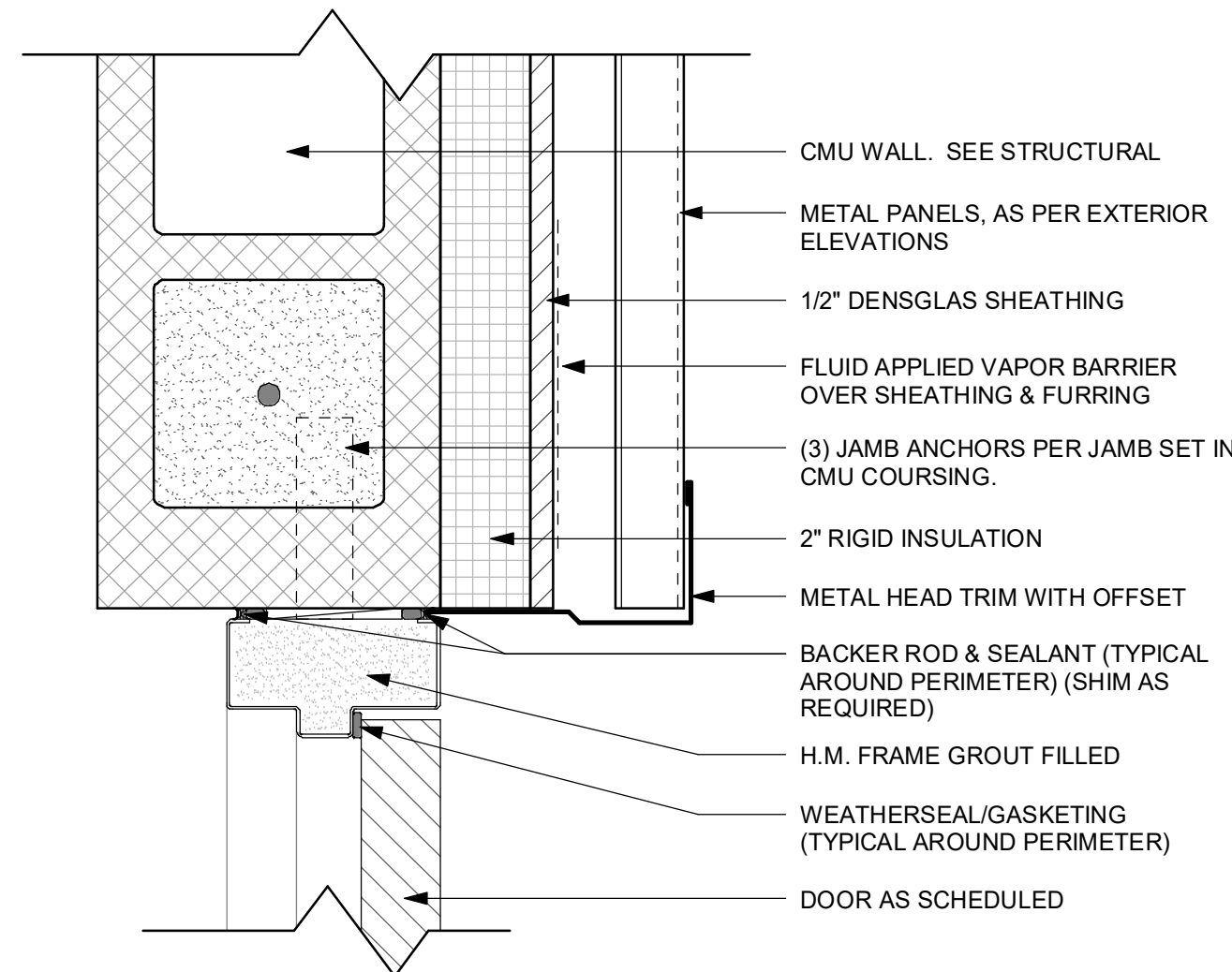
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ENTIRE SHEET RESISSUED AS PART OF THIS ADDENDUM.

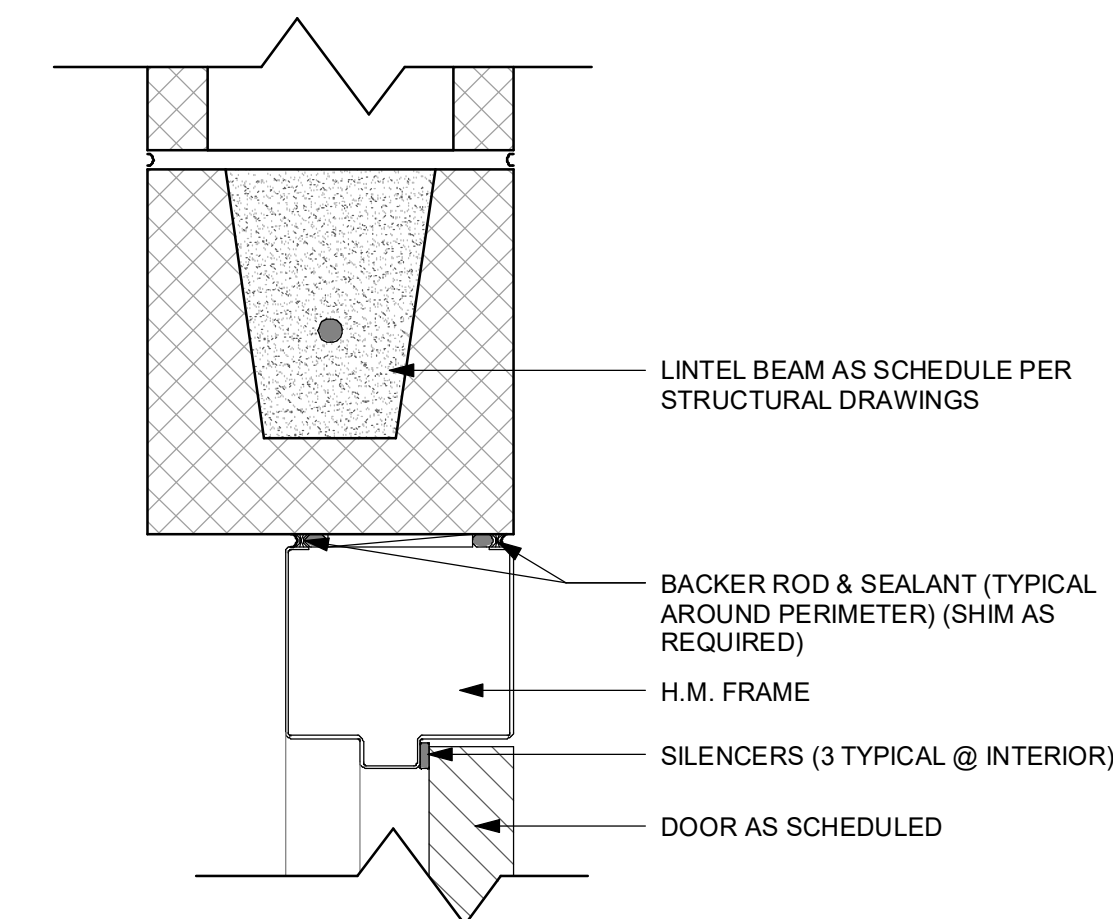




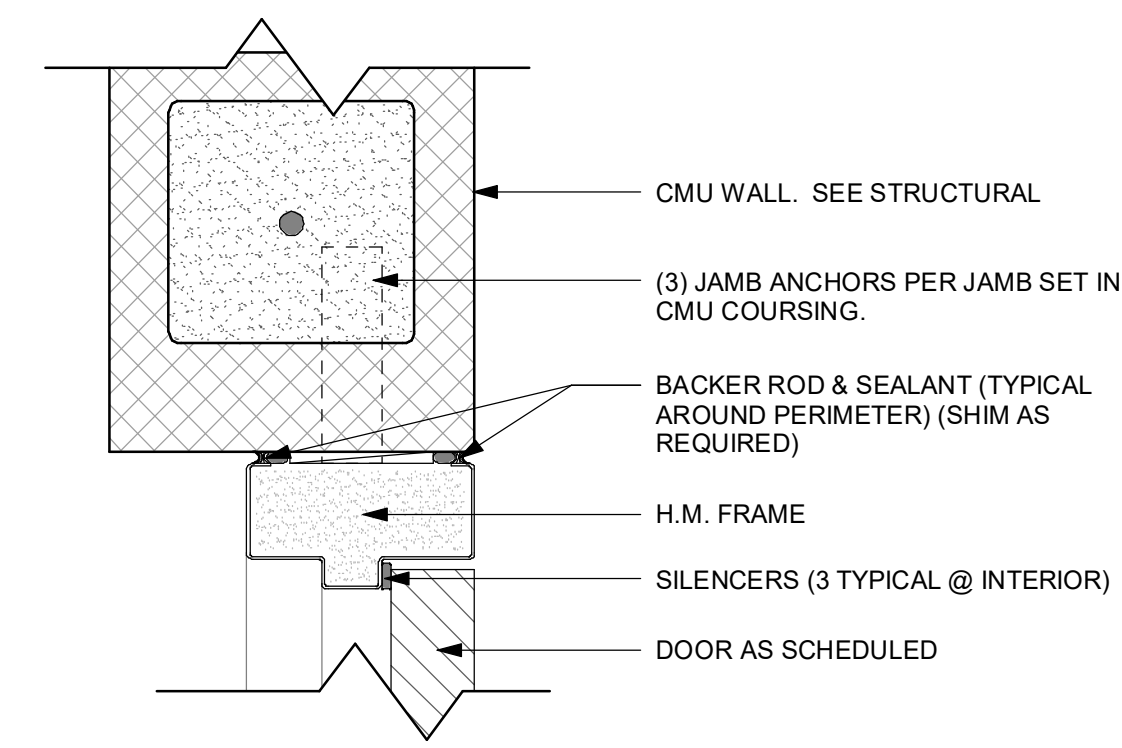
**1 HEAD DETAIL**  
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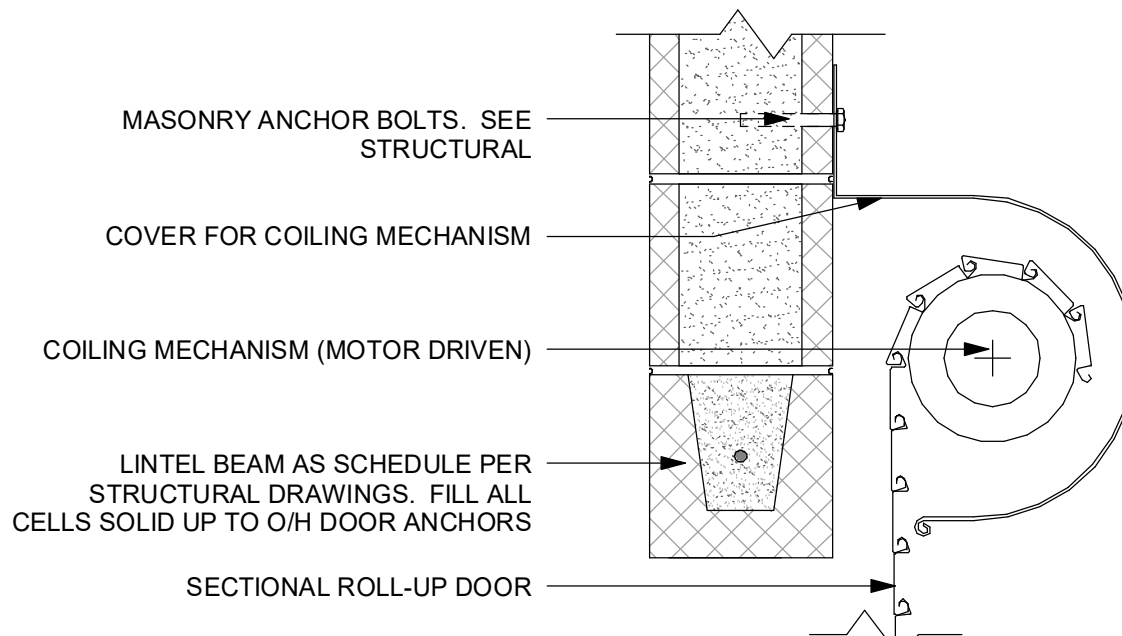
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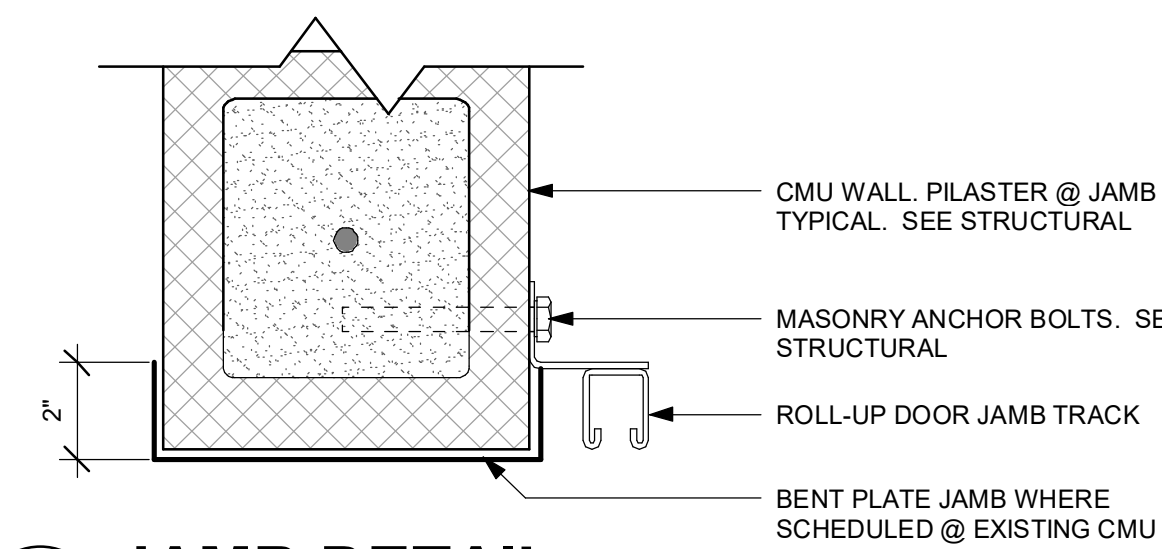
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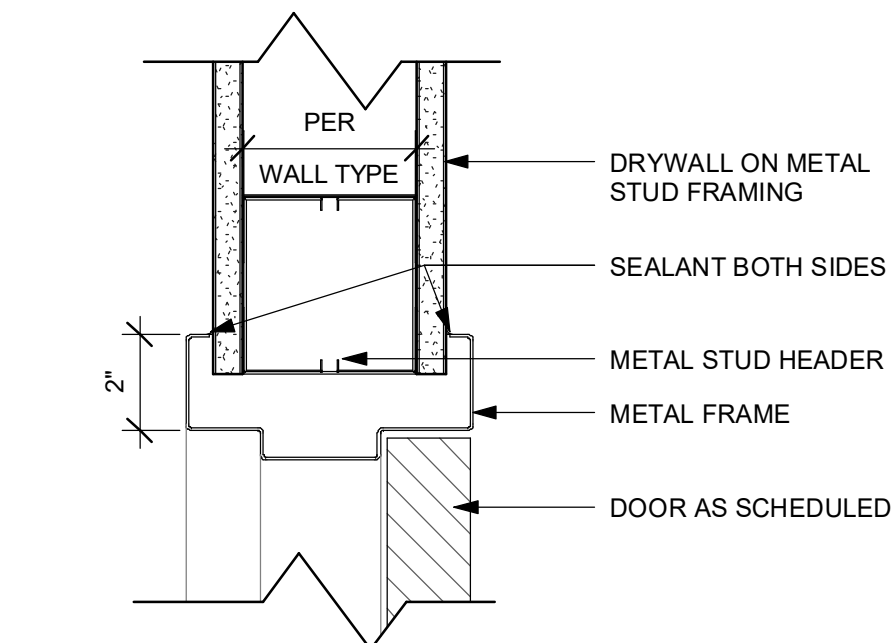
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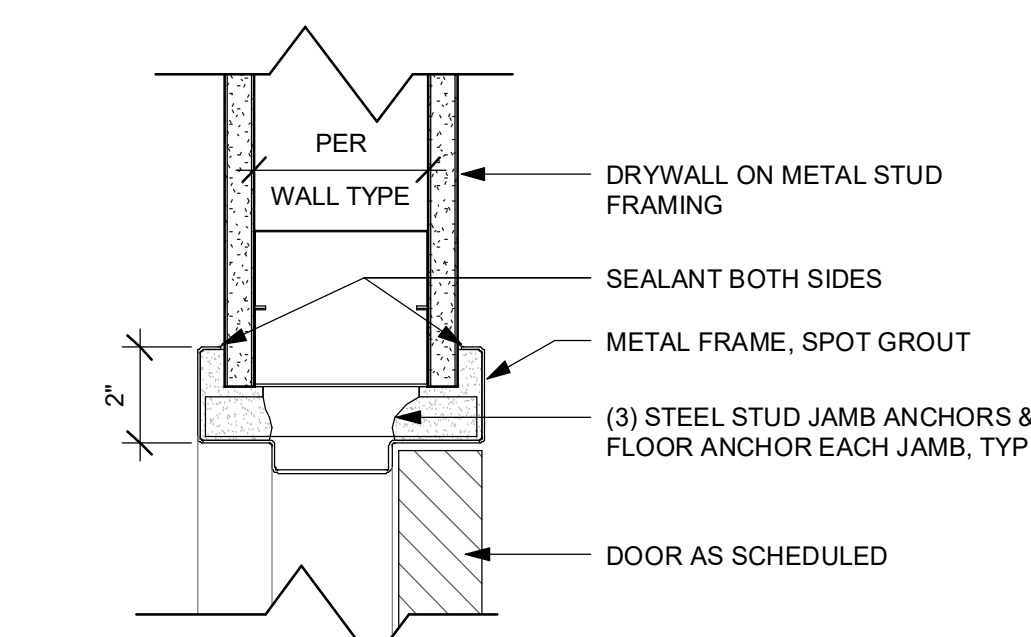
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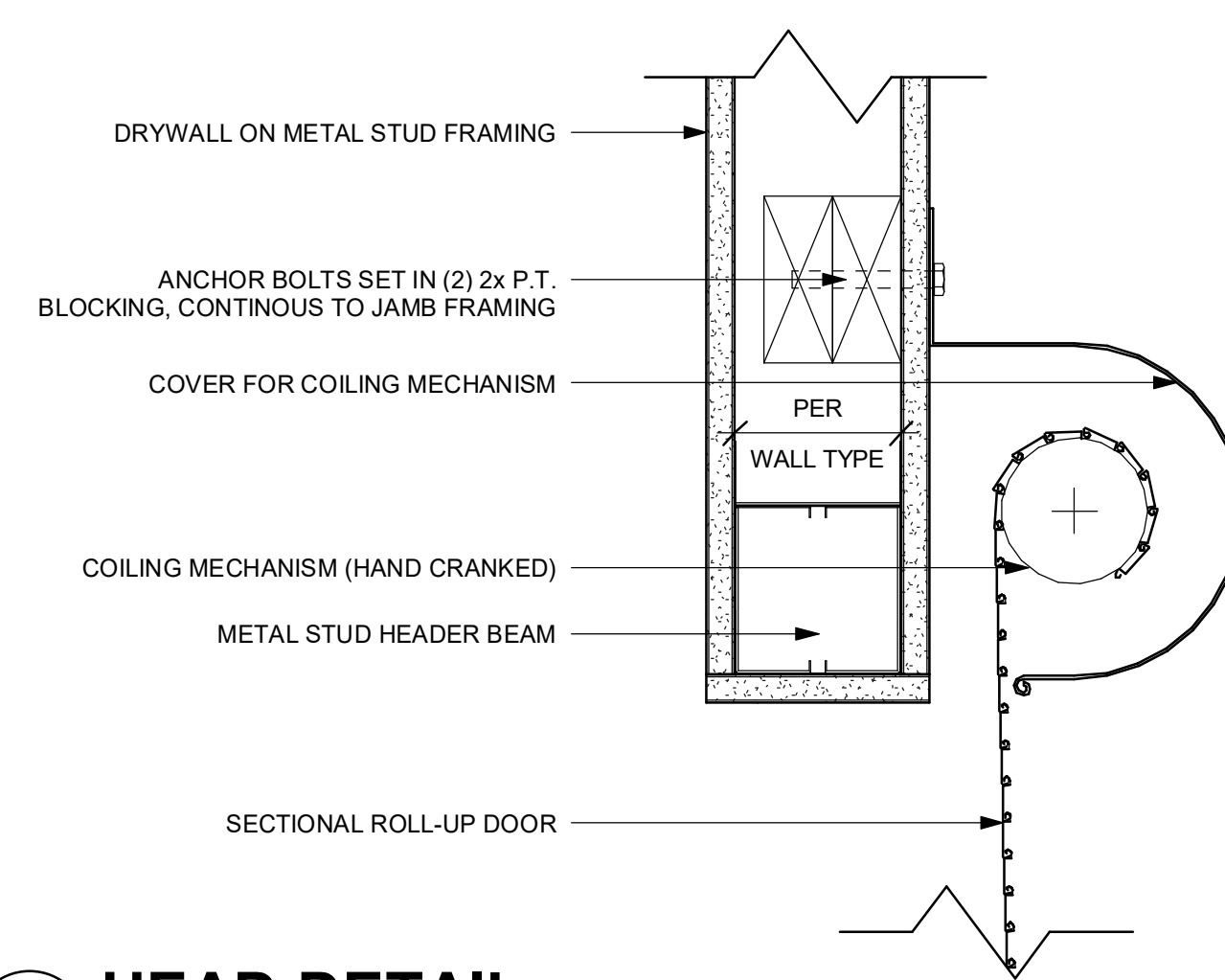
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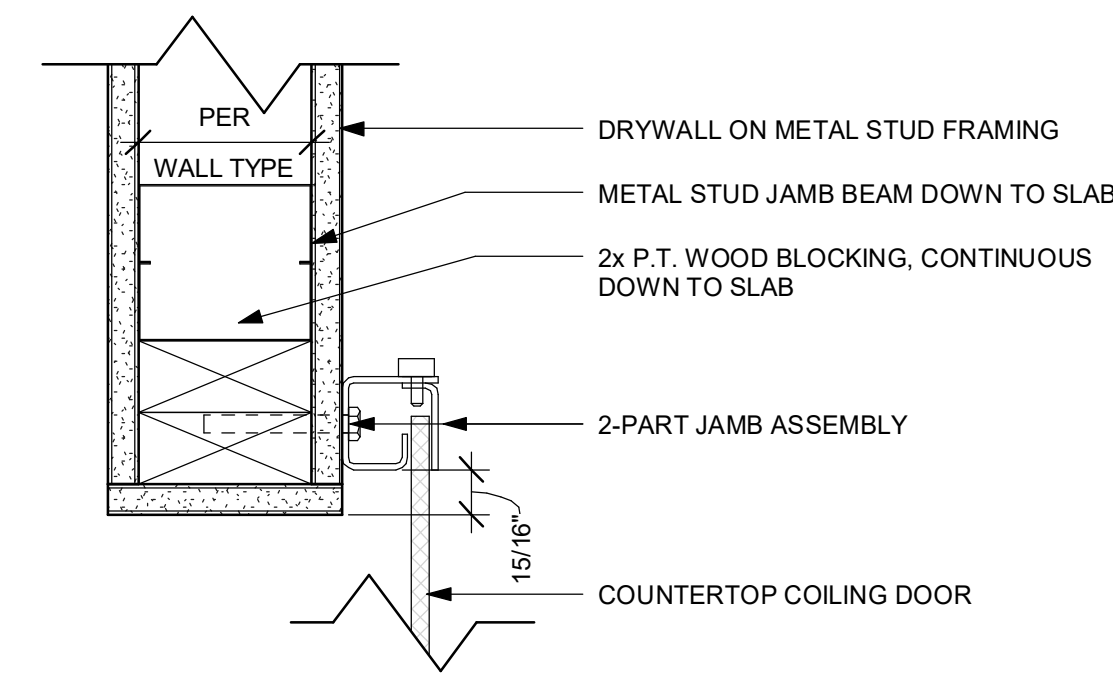
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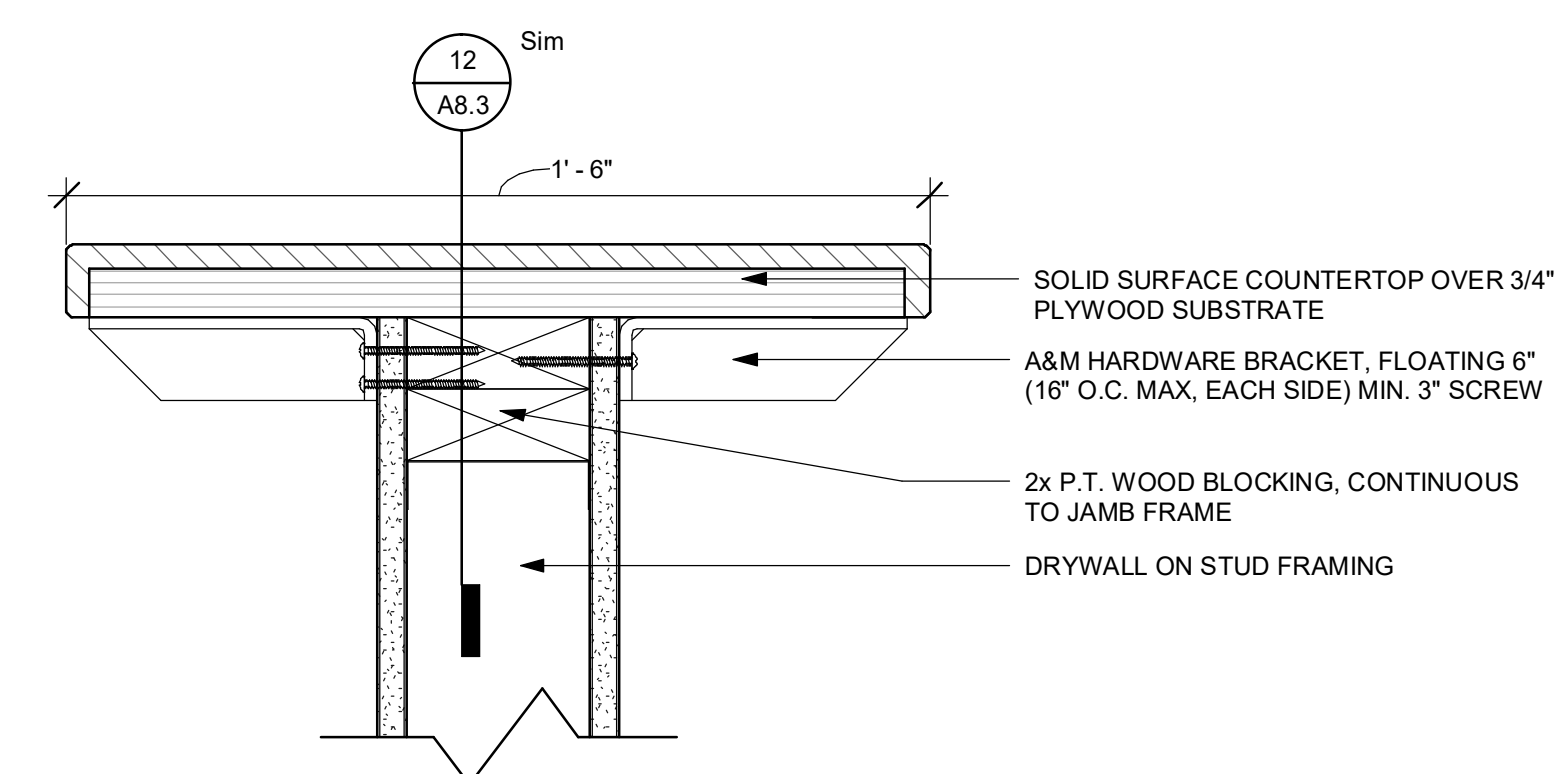
**8 JAMB DETAIL**  
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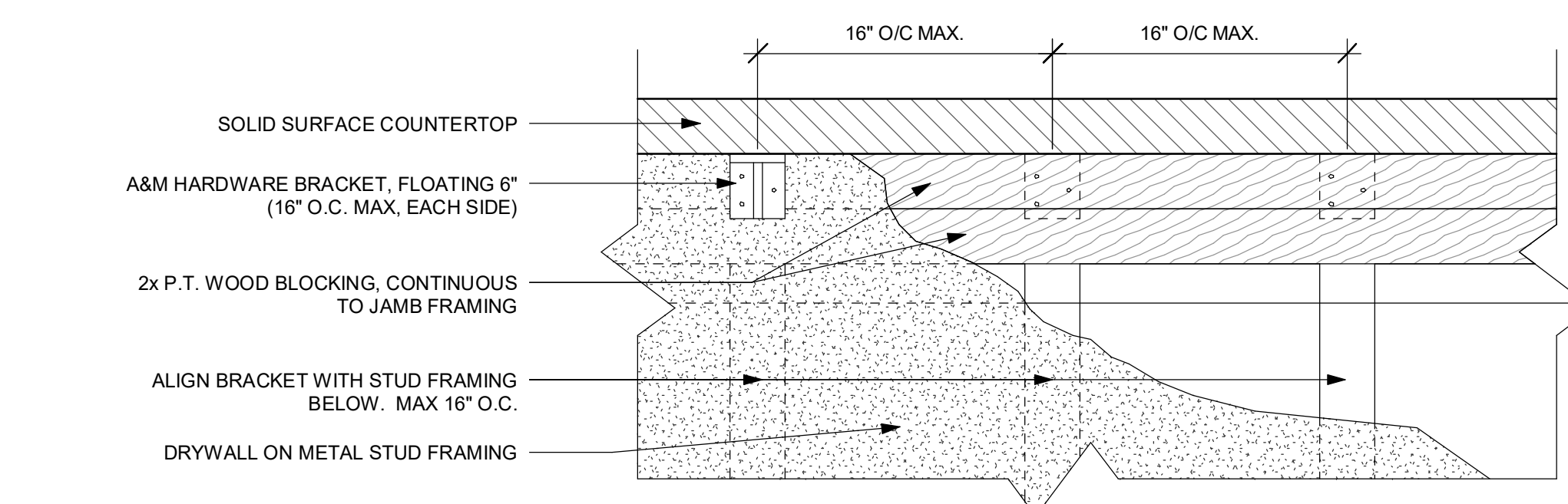
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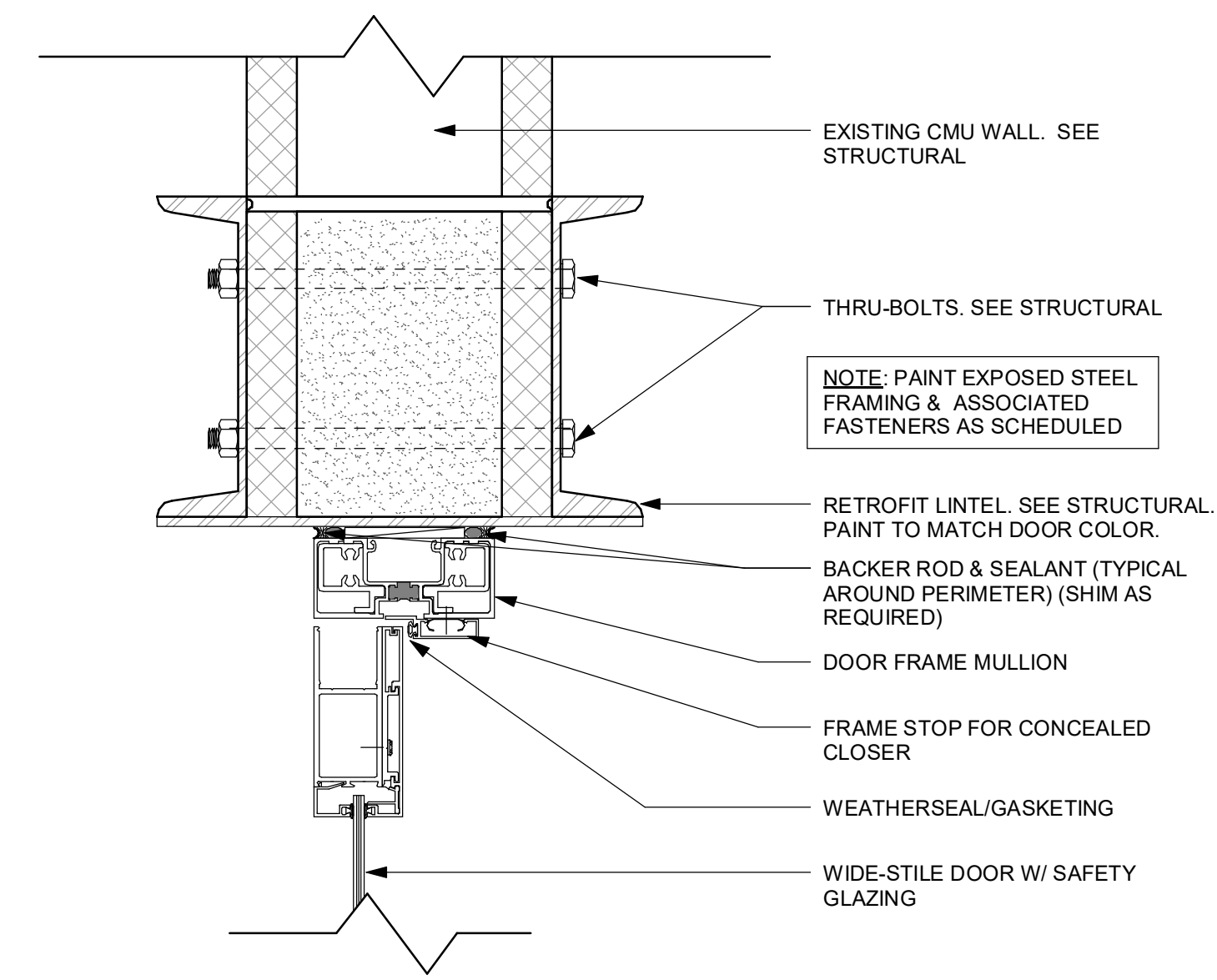
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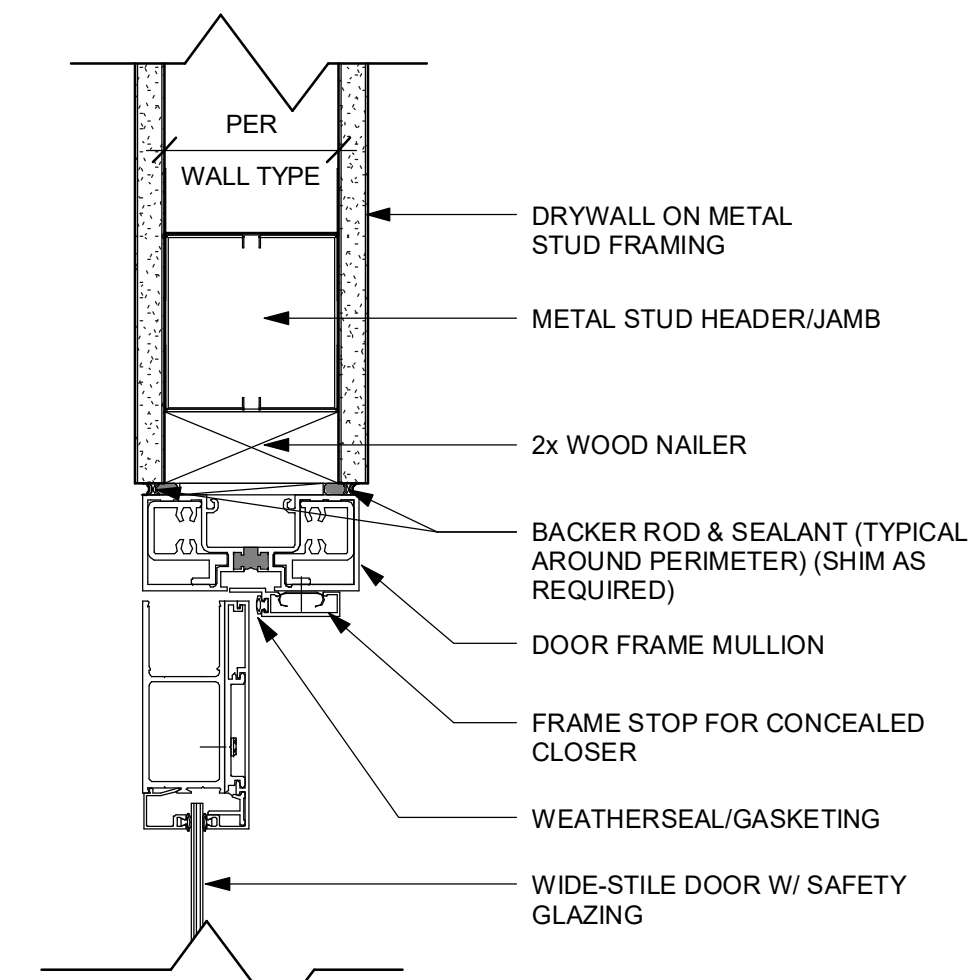
**11 SILL DETAIL**  
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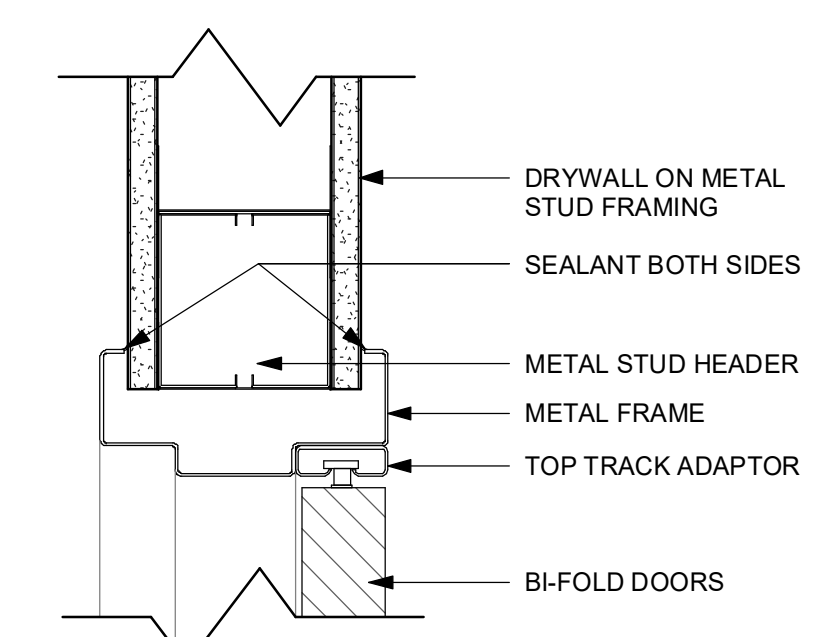
**12 SILL REVEAL ELEVATION**  
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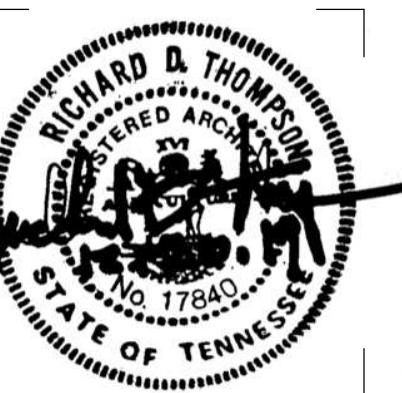
**13 HEAD DETAIL**  
SCALE: 3" = 1'-0"



**14 HEAD/SILL DETAIL**  
SCALE: 3" = 1'-0"



**15 HEAD DETAIL**  
SCALE: 3" = 1'-0"





**DESIGN CRITERIA:**

- DESIGN CODE AND STANDARD:
  - 2012 INTERNATIONAL BUILDING CODE
  - ASCE 7-10: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- COLLATERAL LOAD:
  - ROOF: (ROOFING, CEILING, LIGHTS, MEP, ETC.) 15 PSF
- LIVE LOAD:
  - ROOF: ROOF LIVE LOAD 20 PSF (REDUCIBLE)
- RISK CATEGORY III
- SNOW LOAD:
  - GROUND SNOW LOAD, P<sub>g</sub> 10 PSF
  - IMPORTANCE FACTOR, I 1.0
  - EXPOSURE FACTOR, C<sub>e</sub> 1.0
  - THERMAL FACTOR, C<sub>t</sub> 1.10
  - FLAT-ROOF SNOW LOAD, P<sub>f</sub> 11 PSF
  - SNOW DRIFTS IN ACCORDANCE WITH CHAPTER 7 OF ASCE 7

- WIND LOAD: CORRIDOR BUILDING
  - BASIC WIND SPEED (3-SECOND GUST) 120 MPH
  - EXPOSURE CATEGORY C
  - INTERNAL PRESSURE COEFFICIENT, G<sub>Cpi</sub> +/- 0.55
  - ENCLOSURE CLASSIFICATION PARTIALLY ENCLOSED

COMPONENT AND CLADDING WIND PRESSURES:  
WIDTH OF PRESSURE COEFFICIENT ZONE (a) 3 FT

ROOF AREA	SURFACE PRESSURES (PSF)		
	10 SF	50 SF	≥100 SF
NEGATIVE ZONE 1	-44	-41	-40
NEGATIVE ZONE 2	-51	-44	-42
NEGATIVE ZONE 3	-80	-66	-60
POSITIVE ALL ZONES	+24	+22	+21
OVERHANG ZONE 2	-64	-64	-64
OVERHANG ZONE 3	-98	-79	-71

WALL AREA	SURFACE PRESSURES (PSF)		
	10 SF	100 SF	≥500 SF
NEGATIVE ZONE 4	-40	-36	-33
NEGATIVE ZONE 5	-46	-38	-33
POSITIVE ZONE 4 & 5	+37	+33	+31

- WIND LOAD: PRE-ENGINEERED METAL BUILDING AND EXISTING BUILDING

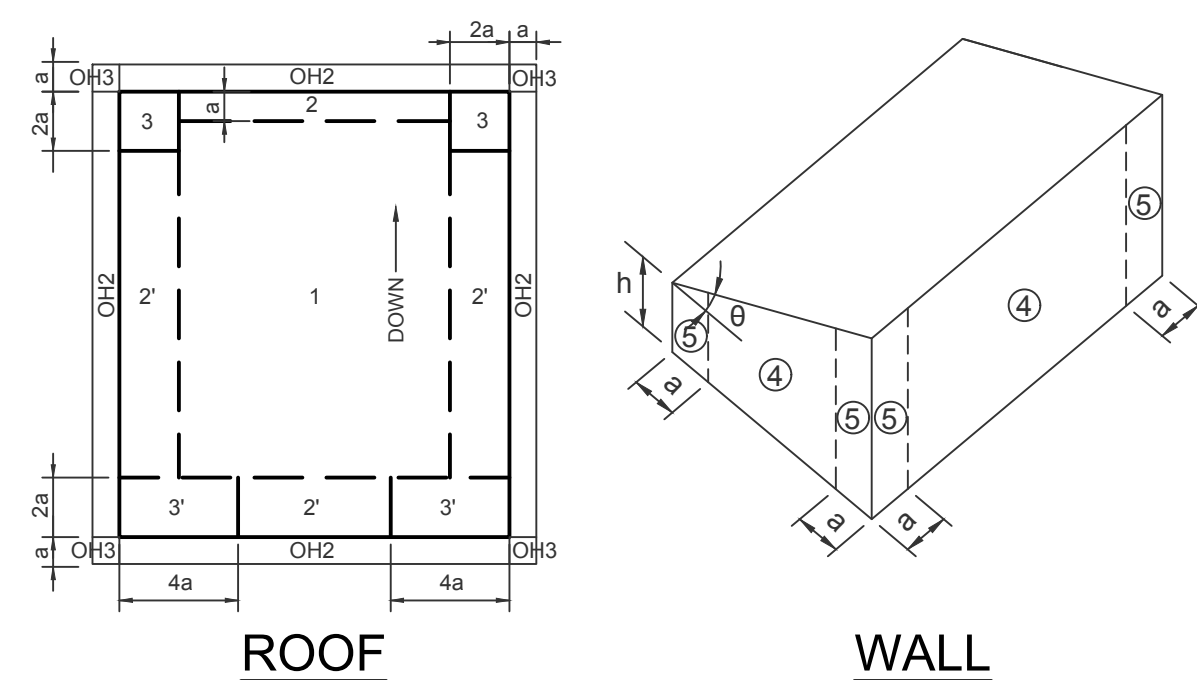
BASIC WIND SPEED (3-SECOND GUST) 120 MPH  
EXPOSURE CATEGORY C  
INTERNAL PRESSURE COEFFICIENT, G<sub>Cpi</sub> +/- 0.18  
ENCLOSURE CLASSIFICATION ENCLOSED

COMPONENT AND CLADDING WIND PRESSURES:  
WIDTH OF PRESSURE COEFFICIENT ZONE (a) 6.6 FT

ROOF AREA	SURFACE PRESSURES (PSF)		
	10 SF	50 SF	≥100 SF
POSITIVE ALL ZONES	+13	+11	+10
NEGATIVE ZONE 1	-32	-32	-32
NEGATIVE ZONE 2	-36	-35	-29
NEGATIVE ZONE 3	-48	-38	-34
NEGATIVE ZONE 2'	-44	-42	-41
NEGATIVE ZONE 3'	-70	-51	-44
OVERHANG ZONE 2	-46	-36	-32
OVERHANG ZONE 3	-72	-39	-25

WALL AREA	SURFACE PRESSURES (PSF)		
	10 SF	100 SF	≥500 SF
NEGATIVE ZONE 4	-32	-27	-24
NEGATIVE ZONE 5	-39	-30	-24
POSITIVE ZONE 4 & 5	+29	+25	+22

- TABLE NOTES:
- PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM BUILDING SURFACES, RESPECTIVELY.
  - COMPONENT AND CLADDING LOADS MAY BE INTERPOLATED BETWEEN THE WIND AREAS.
  - REFER TO FIGURES 30.4-1 THROUGH 30.4-7 IN ASCE 7 FOR COMPONENT AND CLADDING WIND LOAD DIAGRAMS.



**DESIGN CRITERIA, CONT.:**

- SEISMIC LOAD:
  - IMPORTANCE FACTOR, I 1.25
  - SITE CLASS D
  - SPECTRAL RESPONSE ACCELERATIONS:
    - S<sub>s</sub> 0.378g
    - S<sub>1</sub> 0.125g
    - S<sub>0.5</sub> 0.378g
    - S<sub>0.1</sub> 0.192g
  - SEISMIC DESIGN CATEGORY C
  - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE PROCEDURE
- CORRIDOR BUILDING:
  - SEISMIC FORCE RESISTING SYSTEM ORDINARY STEEL MOMENT FRAMES AND ORDINARY REINFORCED MASONRY SHEAR WALLS
  - RESPONSE MODIFICATION FACTOR, R 2
  - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> 0.158
  - DESIGN BASE SHEAR, V 10 KIPS
- PRE-ENGINEERED METAL BUILDING:
  - NORTH-SOUTH DIRECTION:
    - SEISMIC FORCE RESISTING SYSTEM SEE PEMB PLANS
    - RESPONSE MODIFICATION FACTOR, R SEE PEMB PLANS
    - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> SEE PEMB PLANS
    - DESIGN BASE SHEAR, V SEE PEMB PLANS
  - EAST-WEST DIRECTION:
    - SEISMIC FORCE RESISTING SYSTEM SEE PEMB PLANS
    - RESPONSE MODIFICATION FACTOR, R SEE PEMB PLANS
    - SEISMIC RESPONSE COEFFICIENT, C<sub>s</sub> SEE PEMB PLANS
    - DESIGN BASE SHEAR, V SEE PEMB PLANS

- SOIL DESIGN PARAMETERS:
  - ALLOWABLE SOIL BEARING PRESSURE 2000 PSF
  - BELOW GRADE WALLS AND RETAINING WALLS:
    - PASSIVE SOIL PRESSURE 250 PCF
    - COEFFICIENT OF FRICTION 0.32
  - SOIL UNIT WEIGHT 125 PCF
  - FROST DEPTH 24 INCHES
  - SOIL SUBGRADE MODULUS 100 PCI

**GENERAL CONSTRUCTION:**

- STRUCTURAL DRAWINGS SHALL NOT BE SCALED. REFERENCE SCALES INDICATED ON THE DRAWINGS ARE INTENDED FOR INFORMATION USE ONLY AND SHALL NOT BE USED TO DETERMINE SPECIFIC DIMENSIONS OR QUANTITY OF MATERIALS.
- PRIOR TO FABRICATION AND CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING ELEVATIONS AND DIMENSIONS ASSOCIATED WITH THE WORK. ALL OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE C.O. / OWNER PRIOR TO PROCEEDING WITH RELATED WORK.
- SPECIFICATIONS SHALL BE USED IN CONJUNCTION WITH THE DRAWINGS FOR PURPOSES OF BIDDING, SCHEDULING, AND CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO LOCATE ALL EXISTING UNDERGROUND UTILITIES AND BURIED ITEMS PRIOR TO CONSTRUCTING FOUNDATIONS.
- THE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN LIVE LOADS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK RELATED TO CONSTRUCTION, ERECTION METHODS, BRACING, SHORING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, ETC. REQUIRED TO SAFELY PERFORM THE WORK.
- STRUCTURAL MEMBERS SHALL NOT BE CUT (FOR PIPES, DUCTS, ETC.) UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE C.O. / OWNER.
- VERIFY SIZE AND LOCATION OF ALL OPENINGS THROUGH FLOORS, WALLS, SLABS, AND ROOFS WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS, AND WITH EQUIPMENT FURNISHED PRIOR TO PROCEEDING WITH RELATED WORK.
- NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- TYPICAL DETAILS AS SHOWN ON THE DRAWINGS APPLY TO SIMILAR SITUATIONS OCCURRING ON THE PROJECT WHETHER OR NOT THEY ARE IDENTIFIED IN EACH LOCATION. COORDINATE WITH THE C.O. / OWNER FOR INTERPRETATION OF APPLICABILITY OF TYPICAL DETAIL.
- FOR STRUCTURAL ABBREVIATIONS, SEE DRAWING S0.1.
- ALL EXISTING SITE STRUCTURES TO REMAIN IN PLACE SHALL BE PROTECTED FROM DAMAGE BY CONTRACTOR.
- ANY DAMAGE DONE ON EXISTING SITE STRUCTURES DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

**DIMENSIONS AND DATUM:**

- UNLESS NOTED OTHERWISE, BEAMS AND JOISTS SHALL BE EQUALLY SPACED BETWEEN DIMENSIONS SHOWN.
- ALL COLUMNS, FOOTINGS, DRILLED PIERS, OR OTHER FOUNDATION ELEMENTS SHALL BE CENTERED ON GRID LINES, UNLESS NOTED OTHERWISE.
- DIMENSIONS SHOWN ARE TO THE CENTERLINE OF MEMBERS OR FACE OF WALLS, UNLESS NOTED OTHERWISE.
- ALL ELEVATIONS ARE REFERENCED TO RELATIVE FINISH FLOOR DATUM ELEVATION OF 0'-0". REFER TO THE CIVIL SITE PLAN FOR ACTUAL FINISH FLOOR DATUM ELEVATION AND BUILDING COORDINATE LOCATIONS.

**FOUNDATIONS:**

- FOUNDATION DESIGN IS BASED UPON THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY:
  - GEOTECHNICAL CONSULTANT: TERRACON
  - REPORT PROJECT NUMBER: E2195045
  - REPORT DATE: JULY 23, 2019
- SUBGRADE PREPARATION FOR GROUND SUPPORTED SLABS AND FOUNDATIONS SHALL BE IN ACCORDANCE WITH GEOTECH REPORT NOTED ABOVE.
- ALL FOUNDATION BEARING SURFACES SHALL BE OBSERVED BY A GEOTECHNICAL ENGINEER, OR DESIGNEE, TO VERIFY CONFORMANCE WITH THE CONTRACT DOCUMENTS AND GEOTECHNICAL ENGINEERING REPORT. THE OBSERVATION SHALL BE MADE PRIOR TO PLACEMENT OF FORMS AND REINFORCING STEEL.
- WALLS SHOWN RESTRAINED AT THE TOP SHALL NOT BE BACKFILLED UNTIL THE STRUCTURE PROVIDING RESTRAINT IS IN PLACE AND HAS ATTAINED DESIGN STRENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WALL BRACING WHEN BACKFILLING OCCURS PRIOR TO CONSTRUCTION OF THE TOP RESTRAINT. THE CONTRACTOR SHALL NOTIFY THE C.O. / OWNER PRIOR TO PROCEEDING WITH RELATED WORK.
- BACKFILL SHALL NOT BE PLACED BEHIND CANTILEVERED, FREE TOP WALLS UNTIL THE CONCRETE HAS ATTAINED DESIGN STRENGTH.

**CONCRETE:**

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:
  - ACI 301-10; SPECIFICATIONS FOR STRUCTURAL CONCRETE
  - ACI 318-14; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
- CONCRETE PROPERTIES:
  - MINIMUM 28 DAY COMPRESSIVE STRENGTH
  - TYPICAL CONCRETE (UNLESS NOTED OTHERWISE) 4,000 PSI

- THE CONTRACTOR SHALL COORDINATE SIZE AND LOCATION OF EMBEDDED ITEMS, OPENINGS, SLEEVES, INSERTS, DOWELS, DEPRESSIONS, CURBS, PITS, CONDUITS, ETC. WITH MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS, AND EQUIPMENT FURNISHED PRIOR TO PLACEMENT OF CONCRETE.
- CONDUITS, PIPES, DUCTS, OR SLEEVES SHALL NOT BE EMBEDDED WITHIN SLABS, WALLS, BEAMS, OR COLUMNS UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. EMBEDDED ALUMINUM CONDUITS AND PIPES SHALL NOT BE PERMITTED.
- WHEN THE SIDES OF GRADE BEAMS OR PIER CAPS ARE EARTH-FORMED, EACH SIDE SHALL BE WIDENED AT LEAST 3 INCHES MORE THAN THE REQUIRED DIMENSION. THE MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE INCREASED ACCORDINGLY BY THE SAME AMOUNT.
- EXPOSED EDGES OF CONCRETE (BEAMS, COLUMNS, WALLS, ETC.) SHALL BE CHAMFERED 3/4 INCH, UNLESS SPECIFICALLY NOTED OTHERWISE.
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS PRIOR TO PLACING ADJACENT CONCRETE. CONCRETE SURFACES SHALL BE ROUGHENED TO A FULL AMPLITUDE OF APPROXIMATELY 1/4 INCH.
- TO COMPENSATE FOR WET CONCRETE DEFLECTION OF THE STRUCTURE (STEEL BEAMS, PRECAST TEES, ETC.), SLAB THICKNESSES SHALL BE INCREASED AS REQUIRED TO PROVIDE A LEVEL SURFACE WITHIN TOLERANCE. THE ADDITIONAL CONCRETE SHALL BE PROVIDED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL SUBMIT A PROPOSED FLOOR JOINT LAYOUT FOR SLABS ON GROUND AND FOUNDATION WALLS TO THE C.O. / OWNER FOR REVIEW. CONCRETE SLABS ON GROUND SHALL BE BOUND BY CONTRACTION JOINTS WITH AN ENCLOSED AREA NOT EXCEEDING 225 SQUARE FEET AND A MAXIMUM PANEL LENGTH TO WIDTH RATIO OF 1.5. JOINTS SHALL BE LOCATED ON COLUMN GRID LINES AND AT 15 FEET MAXIMUM.

**REINFORCING STEEL:**

- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:
  - ACI SP-66; ACI DETAILING MANUAL - 2004
  - CRSI MSP-1; MANUAL OF STANDARD PRACTICE, 28TH EDITION, 2009
- TYPICAL REINFORCING STEEL:
  - DEFORMED BARS (NON-WELDABLE) ASTM A615, GRADE 60
  - DEFORMED BARS (WELDABLE) ASTM A706, GRADE 60
- PROVIDE THE MINIMUM CONCRETE COVER INDICATED IN THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE IN A SPECIFIC SECTION OR DETAIL. INCREASE CONCRETE COVER AS REQUIRED TO ACCOMMODATE EMBEDDED ITEMS, BAR CONGESTION, FIELD CONDITIONS, ETC.

DESCRIPTION		COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH		3"
CONCRETE EXPOSED TO EARTH OR WEATHER		2"
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	SLABS, WALLS, AND JOISTS	#14 AND LARGER 1 1/2" #11 AND SMALLER 3/4"
	BEAMS AND COLUMNS (TIES, STIRRUPS PRIMARY REINFORCEMENT, SPIRALS)	1 1/2"

- ALL REINFORCING BAR HOOKS INDICATED ON THE DRAWINGS SHALL BE ACI STANDARD HOOKS CONFORMING TO THE BEND DIMENSION REQUIREMENTS OF ACI 318, UNLESS SPECIFICALLY NOTED OTHERWISE.
- REINFORCING BARS SHALL BE COLD BENT. BARS EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT WHEN SPECIFICALLY INDICATED ON THE DRAWINGS.
- THE CONTRACTOR SHALL NOT CUT REINFORCEMENT UNLESS INDICATED BY SECTION OR DETAIL. AT LOCATIONS OF CONFLICT, SPREAD THE REINFORCEMENT TO ACCOMMODATE PLACEMENT. ADD ADDITIONAL BARS IF NECESSARY TO MAINTAIN SPACING REQUIREMENTS.
- ALL WELDED REINFORCING SHALL BE IN ACCORDANCE WITH AWS D1.4. TACK WELDING IS NOT PERMITTED.

**REINFORCING STEEL, CONT.:**

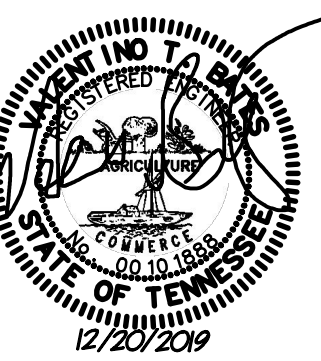
- #11 AND SMALLER BARS MAY BE SPLICED USING MECHANICAL CONNECTIONS OR CONTACT LAP SPLICES. BAR LAPS SHALL BE SECURELY WIRED TOGETHER.
- TENSION DEVELOPMENT AND REINFORCING BAR LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLES, UNLESS NOTED OTHERWISE. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF FOOTINGS AND WALLS. PROVIDE CONTACT LAP SPLICES.

BAR SIZE	f'c = 4,000 PSI (GRADE 60 UNCOATED BARS)			
	TENSION DEVELOPMENT		CLASS "B" LAP SPlice	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#3	19	15	24	19
#4	25	19	32	25
#5	31	24	40	31
#6	37	29	48	37
#7	54	42	70	54
#8	62	48	80	62
#9	70	54	91	70
#10	79	61	102	79
#11	87	67	113	87
ALL LENGTHS ARE IN INCHES				

- NOTES:
- TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.
  - REINFORCING BAR LENGTHS ARE BASED ON NORMAL-WEIGHT CONCRETE.
  - REFER TO TENSION DEVELOPMENT VALUES FOR CLASS "A" LAP SPlice LENGTHS.
  - WHEN REINFORCING BAR SPACING IS LESS THAN 2 db FOR BEAMS AND COLUMNS OR 3 db FOR ALL OTHER CONCRETE ELEMENTS, LENGTHS SHALL BE MULTIPLIED BY A FACTOR OF 1.5. (db = REINFORCING BAR DIAMETER)

**MASONRY:**

- ALL MASONRY WORK SHALL CONFORM TO THE REQUIREMENTS OF THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:
  - ACI 530-11; BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
  - ACI 530.1-11; SPECIFICATION FOR MASONRY STRUCTURES
- SPECIFIED DESIGN STRENGTH OF MASONRY, f'<sub>m</sub> 1,500 PSI
- CONCRETE MASONRY PROPERTIES:
  - a) CONCRETE MASONRY UNITS: ASTM C90, MEDIUM WEIGHT, NET 1900 PSI COMPRESSIVE MASONRY STRENGTH.
  - b) MORTAR: ASTM C270, TYPE S. MASONRY CEMENT SHALL NOT BE USED.
  - c) GROUT: ASTM C476 GROUT. GROUT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 2000 TO 4000 PSI.
- COMPRESSIVE STRENGTH OF MASONRY SHALL BE DETERMINED BY THE UNIT STRENGTH METHOD. PRISM TEST METHOD IS REQUIRED WHEN THE ABOVE REQUIREMENTS ARE NOT MET.
- MASONRY COURSES SHALL BE PLACED IN A RUNNING BOND PATTERN, UNLESS SPECIFICALLY NOTED OTHERWISE.
- GROUTING:
  - a) SOLID GROUT ALL PIERS, COLUMNS, HEADERS, AND BOND BEAMS. SOLID GROUT ADDITIONAL MASONRY AREAS SPECIFICALLY INDICATED ON THE DRAWINGS.
  - b) GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED.
- EMBEDDED CONDUITS, PIPES, AND SLEEVES SHALL NOT BE LOCATED IN GROUTED CELLS.
- VERTICAL REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
  - a) PROVIDE #5 VERTICAL BARS (CENTERED) AT 48 INCHES.
  - b) PROVIDE ADDITIONAL #5 VERTICAL BARS (CENTERED) ALONG FULL HEIGHT OF WALL AT ALL:
    - CORNERS
    - INTERSECTIONS
    - WALL ENDS
    - OPENINGS
    - JAMBS
    - BEAM BEARING
    - EACH SIDE OF CONTROL JOINTS
  - c) PROVIDE MATCHING DOWELS FOR ALL VERTICAL REINFORCING.
- HORIZONTAL REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):
  - a) PROVIDE WIRE TRUSS OR LADDER TYPE JOINT REINFORCING AT 16 INCHES. REINFORCING SHALL CONSIST OF W2.8 (3/16 INCH) SIDE WIRES AND W1.7 (9 GAGE) CROSS WIRES. JOINT REINFORCING SHALL BE HOT-DIPPED GALVANIZED WITH CORROSION RESISTANT COATING.
  - b) LAP SPlice JOINT REINFORCING 8 INCHES. JOINT REINFORCING SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
  - c) PROVIDE (1) #5 CONTINUOUS BARS IN BOND BEAMS (8 INCH MINIMUM DEPTH) AT ROOF AND ELEVATED FLOOR LINES, TOP OF PARAPETS, AND TOP OF FREE-STANDING WALLS. SPACE BOND BEAMS @48" ON CENTER VERTICAL. BARS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS.
  - d) PROVIDE BENT BARS AT CORNERS AND WALL INTERSECTIONS TO MATCH HORIZONTAL BOND BEAM REINFORCING.
- LAP SPLICES SHALL BE 40 BAR DIAMETERS, UNO. ADJACENT LAP SPLICES SHALL BE STAGGERED BY 24 INCHES WHEN SEPARATED BY 3 INCHES OR LESS.
- UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUN OF WALL EXCEEDS 48 FEET.
- ALL OUTSIDE CORNERS TO BE BULLNOSED.





### STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:  
AISC 360-05; SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS  
AISC 303-05; CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES  
RCSC; SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490  
BOLTS, JUNE 30, 2004  
AWS D1.1-04; STRUCTURAL WELDING CODE - STEEL
- STRUCTURAL SHAPES AND PLATES:

	(Fy)
W-SHAPES AND WT-SHAPES	ASTM A992 50 KSI
M-SHAPES AND S-SHAPES	ASTM A36 36 KSI
ANGLES AND CHANNELS	ASTM A36 36 KSI
HP-SHAPES	ASTM A572 GRADE 50 50 KSI
RECTANGULAR AND SQUARE HSS	ASTM A500 GRADE B 46 KSI
ROUND HSS	ASTM A500 GRADE B 42 KSI
STEEL PIPE	ASTM A53 GRADE B 35 KSI
STRUCTURAL PLATES	ASTM A36 36 KSI
- FASTENING PRODUCTS:

CONVENTIONAL BOLTS	ASTM A325, TYPE 1
TENSION-CONTROL BOLT ASSEMBLIES	ASTM F1852, TYPE 1 (TWIST-OFF)
DIRECT-TENSION INDICATORS	ASTM F959, TYPE 325
NUTS	ASTM A563
WASHERS	ASTM F436
ANCHOR RODS	ASTM F1554 GRADE 36
THREADED RODS	ASTM A36
SHEAR STUD CONNECTORS	ASTM A29 PER ASTM A108
WELD FILLER METAL	E70XX

ALL ANCHOR RODS AND THREADED RODS IN EXTERIOR APPLICATIONS SHALL BE HOT DIP GALVANIZED.
- TIGHTEN BOLTS TO THE SNUG-TIGHT OR PRE-TENSIONED CONDITION, EXCEPT WHERE INDICATED AS SLIP CRITICAL (SC). ALL SLIP-CRITICAL CONNECTIONS SHALL BE FULLY PRE-TENSIONED AND INSPECTED USING TENSION-CONTROL BOLT ASSEMBLIES, DIRECT-TENSION INDICATORS, OR BY THE TURN-OF-THE-NUT METHOD CONFORMING TO RCSC. ALL SLIP-CRITICAL CONNECTIONS SHALL HAVE FAYING SURFACES PREPARED AS REQUIRED FOR SLIP-CRITICAL CLASS A.
- WHEN CONNECTIONS ARE NOT SPECIFICALLY INDICATED ON THE DRAWINGS, THE DETAILER SHALL SELECT A SINGLE-PLATE, DOUBLE-ANGLE, OR SINGLE-ANGLE CONNECTION FROM THE AISC STEEL CONSTRUCTION MANUAL (THIRTEENTH EDITION) OR FROM A SCHEDULE PROVIDED IN THE STRUCTURAL PLANS THAT IS ADEQUATE FOR THE LOAD INDICATED ON THE DRAWINGS.
- ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION (WPS) PREQUALIFIED BY AWS D1.1. WPS NOT PREQUALIFIED BY AWS SHALL BE QUALIFIED IN ACCORDANCE WITH AWS D1.1 PRIOR TO USE ON THE PROJECT. WELDERS SHALL BE QUALIFIED FOR EACH WPS USED ON THE PROJECT BY AN AWS CERTIFIED TESTING AGENCY AND IN ACCORDANCE WITH AWS D1.1.
- WELDING SHALL BE PERFORMED IN THE FABRICATION SHOP TO THE EXTENT POSSIBLE. THE CONTRACTOR AND STEEL FABRICATOR SHALL DETERMINE WHERE FIELD WELDS ARE NECESSARY. STEEL SHOP DRAWINGS SHALL INDICATE WHETHER THEY ARE SHOP OR FIELD WELDS.
- UNLESS NOTED OTHERWISE, FILLET WELD SIZES SHALL BE THE SMALLER OF 1/4 INCH OR THE MAXIMUM SIZE THAT CAN BE APPLIED IN ACCORDANCE WITH AISC 360 SECTION J2b
- ALL BEAMS SHALL BE ERECTED WITH THE NATURAL CAMBER UPWARDS.
- OPEN ENDS OF HSS MEMBERS SHALL HAVE 1/4 INCH CLOSURE PLATES, SEAL WELDED ALL AROUND.
- HOLES OR OPENINGS SHALL NOT BE CUT IN ANY STRUCTURAL MEMBER UNLESS SPECIFICALLY DETAILED OR APPROVED IN WRITING BY THE C.O. / OWNER.
- BASE PLATE HOLES AND PLATE WASHERS FOR ANCHOR RODS SHALL BE IN ACCORDANCE WITH TABLE 14-2 OF AISC 360.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING NECESSARY TO ERECT, STABILIZE, AND MAINTAIN ALL STEEL MEMBERS IN PROPER ALIGNMENT UNTIL ALL DECK, PERMANENT BRACING, FLOOR SLABS, WELDED CONNECTIONS, ETC. ARE IN PLACE. COLUMN ANCHOR BOLTS ARE NOT DESIGNED TO PROVIDE TEMPORARY STABILITY FOR COLUMNS DURING STEEL ERECTION. PLACE NON-SHRINK GROUT BELOW ALL COLUMN BASE PLATES BEFORE POURING CONCRETE ON DECKS OR APPLYING LOAD TO THE STRUCTURE.

### PRE-ENGINEERED METAL BUILDING:

- ALL STRUCTURAL STEEL USED FOR PRE-ENGINEERED BUILDING COMPONENTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN CONFORMANCE WITH THE LATEST STANDARDS OF THE AISC. THE DESIGN OF LIGHT GAGE STEEL MEMBERS SHALL COMPLY WITH THE AISI, LATEST EDITION.
- THE DESIGN FOR ALL PRE-ENGINEERED BUILDING MEMBERS AND COMPONENTS (INCLUDING ANCHOR BOLT SIZES, LENGTHS AND EMBEDMENT) SHALL BE THE RESPONSIBILITY OF THE PRE-ENGINEERED BUILDING MANUFACTURER. THE DESIGN SHALL BE CARRIED OUT UNDER THE DIRECTION OF A PROFESSIONAL ENGINEER IN THE STATE OF THE PROJECT.
- THE DESIGN OF ALL PRE-ENGINEERED BUILDING COMPONENTS SHALL BE BASED ON THE LOADS INDICATED IN THE DESIGN CRITERIA SECTION OF THE GENERAL NOTES. DEFLECTIONS OF THE PRE-ENGINEERED BUILDING STRUCTURE UNDER LOADING SHALL NOT EXCEED THE FOLLOWING:

3.1. RIGID FRAMES AND COLUMNS - DRIFT	L/400 LATERAL
3.2. WALL GIRTS AND EAVE STRUTS SUPPORTING METAL SIDING AND GYP BOARD	L/240 LATERAL
3.3. RIGID FRAMED AND ROOF PURLINS	
3.3.1. DROP-IN CEILING OR NO CEILING	L/240 VERTICAL FOR LIVE LOAD L/180 VERTICAL FOR DEAD LOAD
3.3.2. PLASTER OR GYPSUM BOARD CEILING	L/360 VERTICAL FOR LIVE LOAD L/180 VERTICAL FOR DEAD LOAD
- BASES OF COLUMNS SHALL BE DESIGNED AS PINNED SUPPORTS.
- ALL BUILDING COMPONENTS SHALL BE COMPATIBLE WITH THE CONTRACT DOCUMENT. ANY REQUESTS FOR MODIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT DURING THE BIDDING PROCESS.

### PRE-ENGINEERED METAL BUILDING, CONT:

- FIELD WELDED CONNECTIONS FOR LIGHT GAUGE MEMBERS SHALL NOT BE PERMITTED WITHOUT SPECIFIC WRITTEN APPROVAL FROM THE ARCHITECT.
- LATERAL STABILITY OF THE BUILDING FRAME SHALL BE PROVIDED IN THE STRUCTURAL FRAMING. WALLS AND OTHER BUILDING COMPONENTS SHALL NOT BE USED TO RESIST LATERAL LOADS UNLESS NOTED OTHERWISE. AT X-BRACING LOCATIONS STEEL RODS OR ANGLES SHALL BE USED. THE USE OF CABLES FOR PERMANENT X-BRACING IS NOT ACCEPTABLE.
- SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND SUBMITTED FOR REVIEW. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED AND USED AS SHOP DRAWINGS. ANY ITEMS DEVIATING FROM THE CONTRACT DOCUMENTS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS SHALL BE SO NOTED. SHOP DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS TO BE CONSTRUCTED.

### STEEL JOISTS AND JOIST GIRDERS:

- ALL STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:  
STEEL JOIST INSTITUTE, 42ND EDITION STANDARD SPECIFICATIONS (ASD METHOD)
- STEEL JOIST DESIGNATIONS BASED UPON THE SJI STANDARD ASD LOAD TABLES ARE INDICATED ON THE PLANS. JOISTS WITH SPECIAL LOADS SHALL BE DESIGNED BY THE MANUFACTURER AND ARE INDICATED ON THE PLANS AS [SLX]. REFERENCE THE JOIST LOADING DIAGRAM SCHEDULE FOR SPECIAL DESIGN CRITERIA.
- TOP AND BOTTOM CHORD BRIDGING SHALL BE SIZED AND SPACED BY THE JOIST MANUFACTURER IN ACCORDANCE WITH THE STEEL JOIST INSTITUTE SPECIFICATIONS. FURNISH ADDITIONAL BRIDGING NECESSARY FOR WIND UPLIFT AND ANY EXTRA BRIDGING SPECIFICALLY INDICATED ON THE STRUCTURAL PLANS.
- JOIST BRIDGING SHALL BE DESIGNED BY THE JOIST MANUFACTURER USING THE FOLLOWING LOADS TO CALCULATE THE NET WIND UPLIFT PRESSURE:

DEAD LOAD	15 PSF
WIND LOAD	REFER TO ROOF COMPONENT AND CLADDING WIND PRESSURE TABLE IN THE DESIGN CRITERIA SECTION

NET WIND UPLIFT PRESSURE = (0.6 x DEAD LOAD) + WIND LOAD
- REPLACE DIAGONAL BRIDGING WITH HORIZONTAL BRIDGING BETWEEN THE ENDWALLS AND THE LAST JOIST.
- WHERE DIAGONAL BRIDGING INTERFERES WITH MECHANICAL INSTALLATIONS, REMOVE DIAGONAL BRIDGING AFTER DECK IS IN PLACE AND REPLACE WITH A HORIZONTAL L2x2x3/16 CONNECTED TO THE TOP AND BOTTOM CHORDS. COORDINATE WITH THE JOIST MANUFACTURER.
- BRIDGING SHALL NOT BE USED TO SUPPORT ANY EQUIPMENT.
- PROVIDE STANDARD BEARING DEPTHS AT ALL JOISTS AND JOIST GIRDERS, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS.
- JOIST BOTTOM CHORDS SHALL BE DESIGNED TO SUPPORT A 50 POUND VERTICAL LOAD APPLIED ANYWHERE BETWEEN THE PANEL POINTS.
- CONCENTRATED LOADS GREATER THAN 50 POUNDS SHALL BE APPLIED WITHIN 6 INCHES OF JOIST PANEL POINTS OR AT LOCATIONS OF CONCENTRATED LOAD REINFORCEMENT CONSISTING OF FIELD INSTALLED WEB MEMBERS IN ACCORDANCE WITH THE TYPICAL STEEL JOIST REINFORCING DETAIL.
- CONCENTRATED LOADS OR HANGER LOADS SHALL BE ATTACHED TO JOIST CHORDS USING PLATES, ANGLES, WT SECTIONS, RODS, ETC. AND SHALL NOT RESULT IN ECCENTRICITY APPLIED TO THE JOIST. HOLES SHALL NOT BE FIELD DRILLED IN ANY JOIST CHORDS.

### STEEL ROOF DECK:

- ALL STEEL ROOF DECK SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:  
SDI; DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS, AND ROOF DECKS, NOVEMBER 2007  
SDI; DIAPHRAGM DESIGN MANUAL THIRD EDITION, SEPTEMBER 2004  
ANSI/SDI RD1.0-2006; STANDARD FOR STEEL ROOF DECK  
AWS D1.3-98; STRUCTURAL WELDING CODE - SHEET STEEL
- MINIMUM ROOF DECK PROPERTIES:

DEPTH	3"
DECK TYPE	TYPE N
GAGE	18
MINIMUM YIELD STRENGTH	33 KSI
Ip (in4 / ft)	1.43
Sp (in3 / ft)	0.688
Sn (in3 / ft)	0.749
FINISH	GALVANIZED G60
- ROOF DECK ATTACHMENT:  
ALLOWABLE SUPPORT FASTENERS INCLUDE:

a) POWDER-ACTUATED FASTENERS	
b) MINIMUM VISIBLE 5/8 INCH DIAMETER ARC PUDDLE WELDS	
SUPPORTS	24/4 PATTERN
SUPPORTS PARALLEL TO DECK	12" MAXIMUM
SIDLAPs	#10 SCREWS AT 12" MAXIMUM
ALLOWABLE DIAPHRAGM SHEAR	302 PLF
- LOADS SUSPENDED FROM STEEL ROOF DECK SHALL NOT BE PERMITTED.
- DECK SHALL BE CONTINUOUS OVER TWO OR MORE SPANS. FOR CONDITIONS WITH LESS THAN TWO SPANS, SHORE THE DECK IN ACCORDANCE WITH THE MANUFACTURER'S AND SDI MAXIMUM SPAN REQUIREMENTS.
- SHEETS SHALL HAVE LAPPED ENDS. MINIMUM LAP SHALL BE 2 INCHES.
- MINIMUM DECK BEARING SHALL BE 2 INCHES ON SUPPORTS.
- THE FIRST SHEET OF ROOF DECK ADJACENT TO AND PARALLEL TO A WALL, PERIMETER BEAM, OR BEAM IDENTIFIED AS A CHORD, COLLECTOR, OR DRAG MEMBER SHALL BE A FULL PANEL WIDTH SHEET.

### COLD-FORMED STEEL FRAMING:

- ALL COLD-FORMED STEEL FRAMING SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE FOLLOWING, UNLESS OTHERWISE SPECIFIED:  
AISI S100-12; NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS  
AWS D1.3-98; STRUCTURAL WELDING CODE - SHEET STEEL
- UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL DESIGN AND FURNISH ALL COLD-FORMED STEEL FRAMING, ACCESSORIES, AND FASTENERS. REFER TO THE SPECIFICATIONS FOR PERFORMANCE REQUIREMENTS.
- MEMBERS WITH A THICKNESS OF 54 MILS (16 GAGE) OR GREATER SHALL HAVE A MINIMUM YIELD STRENGTH OF 50,000 PSI. MEMBERS WITH A THICKNESS OF 43 MILS (18 GAGE) OR LESS SHALL HAVE A MINIMUM YIELD STRENGTH OF 33,000 PSI.
- G-60 GALVANIZED COATING SHALL BE APPLIED TO COLD-FORMED STEEL AT LOCATIONS EXPOSED TO WEATHER OR WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
- COLD-FORMED STEEL DESIGNATIONS INDICATED ON THE DRAWINGS ARE AS FOLLOWS:  
600S162-54 — STANDARD COLD-FORMED STEEL DESIGNATION  
600 — INDICATES MEMBER DEPTH IN 1/100 INCHES  
S — INDICATES STYLE (S=STUD, T=TRACK, U=CHANNEL)  
162 — INDICATES FLANGE WIDTH IN 1/100 INCHES  
54 — INDICATES MATERIAL THICKNESS IN 1/1000 INCHES  
33 MILS = 20 GAGE  
43 MILS = 18 GAGE  
54 MILS = 16 GAGE  
68 MILS = 14 GAGE  
97 MILS = 12 GAGE
- ALL LOAD-BEARING STUDS SHALL HAVE FULL END BEARING ON THE TOP AND BOTTOM TRACKS PRIOR TO STUD AND TRACK ATTACHMENT. UNLESS NOTED OTHERWISE, DOUBLE STUDS SHALL BE PROVIDED AT ALL JAMBS, CORNERS, INTERSECTIONS, BEAM BEARINGS, AND JOIST BEARINGS.
- SPLICES IN AXIALLY-LOADED MEMBERS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE C.O. / OWNER.
- TRACKS SHALL BE ATTACHED TO CONCRETE ELEMENTS WITH 1/2 INCH DIAMETER ANCHORS AT 48 INCHES, UNLESS NOTED OTHERWISE. ANCHORS SHALL BE PLACED AT ALL JAMBS, CORNERS, INTERSECTIONS, AND WALL ENDS. ALL BOTTOM TRACKS SHALL HAVE A MINIMUM OF 2 ANCHORS.
- BRIDGING SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS WITH THE FOLLOWING MINIMUM REQUIREMENTS:
  - NON-LOAD BEARING WALLS: PROVIDE BRIDGING AT MID-HEIGHT FOR WALLS 10 FEET HIGH OR LESS. PROVIDE BRIDGING AT 5 FEET MAXIMUM SPACING FOR WALLS GREATER THAN 10 FEET HIGH.
  - LOAD BEARING WALLS: PROVIDE BRIDGING AT 4 FEET MAXIMUM SPACING. IN ADDITION, BRIDGING SHALL BE PROVIDED AT ROOF LINES, FLOOR LINES, AND AS INDICATED ON THE DRAWINGS.
  - SOLID BLOCKING SHALL BE INSTALLED IN LIEU OF BRIDGING WHERE INDICATED ON THE DRAWINGS.
- COLD-FORMED STEEL FRAMING SHALL BE DESIGNED BY A LICENSED ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. STRUCTURAL CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO INSTALLATION.

### POST-INSTALLED ANCHORS:

- INSTALLATION AND INSPECTION OF ALL POST-INSTALLED ANCHORS SHALL CONFORM TO THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS, THE EQUIPMENT MANUFACTURER'S REQUIREMENTS, THE REQUIREMENTS OF THE RESPECTIVE ICC-ES REPORT, AND THE APPLICABLE BUILDING CODE.
- A MANUFACTURER'S TECHNICAL REPRESENTATIVE (NOT A DISTRIBUTOR OR AGENT) SHALL TRAIN INSTALLERS ON THE PROPER INSTALLATION PROCEDURES AND SHALL OBSERVE INITIAL INSTALLATION OF THE ANCHORS.
- ADHESIVE ANCHORING SYSTEMS IN CONCRETE SHALL BE AS FOLLOWS:
  - HIT-RE 500 V3 BY HILTI, INC. (ICC-ES ESR-2322)
  - HIT-HY 200 BY HILTI, INC. (ICC-ES ESR-3187)
  - SET-XP BY SIMPSON STRONG-TIE ANCHOR SYSTEMS (ICC-ES ESR-2508)
  - APPROVED EQUAL WITH ICC-ES REPORT

ANCHOR ELEMENTS SHALL CONFORM WITH THE RESPECTIVE ICC-ES REPORT.
- MECHANICAL ANCHORING SYSTEMS IN CONCRETE SHALL BE AS FOLLOWS:
  - KWIK BOLT T2 BY HILTI, INC. (ICC-ES ESR-1917)
  - STRONG-BOLT 2 BY SIMPSON STRONG-TIE (ICC-ES ESR-3037)
  - APPROVED EQUAL WITH ICC-ES REPORT

ANCHORS SHALL BE INSTALLED AND TORQUED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ADHESIVE ANCHORING SYSTEMS IN MASONRY SHALL BE AS FOLLOWS:
  - HIT-HY 200 BY HILTI, INC. (ICC-ES ESR-3963)
  - SET BY SIMPSON STRONG-TIE ANCHOR SYSTEMS (ICC-ES ESR-1772)
  - APPROVED EQUAL WITH ICC-ES REPORT

ANCHOR ELEMENTS SHALL CONFORM WITH THE RESPECTIVE ICC-ES REPORT. ANCHORS SHALL BE INSTALLED IN GROUTED CELLS. IF GROUTED CELLS ARE NOT ENCOUNTERED, CELL FACE SHALL BE BROKEN AND GROUTED SOLID EIGHT INCHES (MINIMUM) ABOVE AND BELOW ANCHOR LOCATION.
- MECHANICAL ANCHORING SYSTEMS IN MASONRY SHALL BE AS FOLLOWS:
  - KWIK BOLT 3 BY HILTI, INC. (ICC-ES ESR-1385)
  - WEDGE-ALL BY SIMPSON STRONG-TIE (ICC-ES ESR-1396)
  - APPROVED EQUAL WITH ICC-ES REPORT

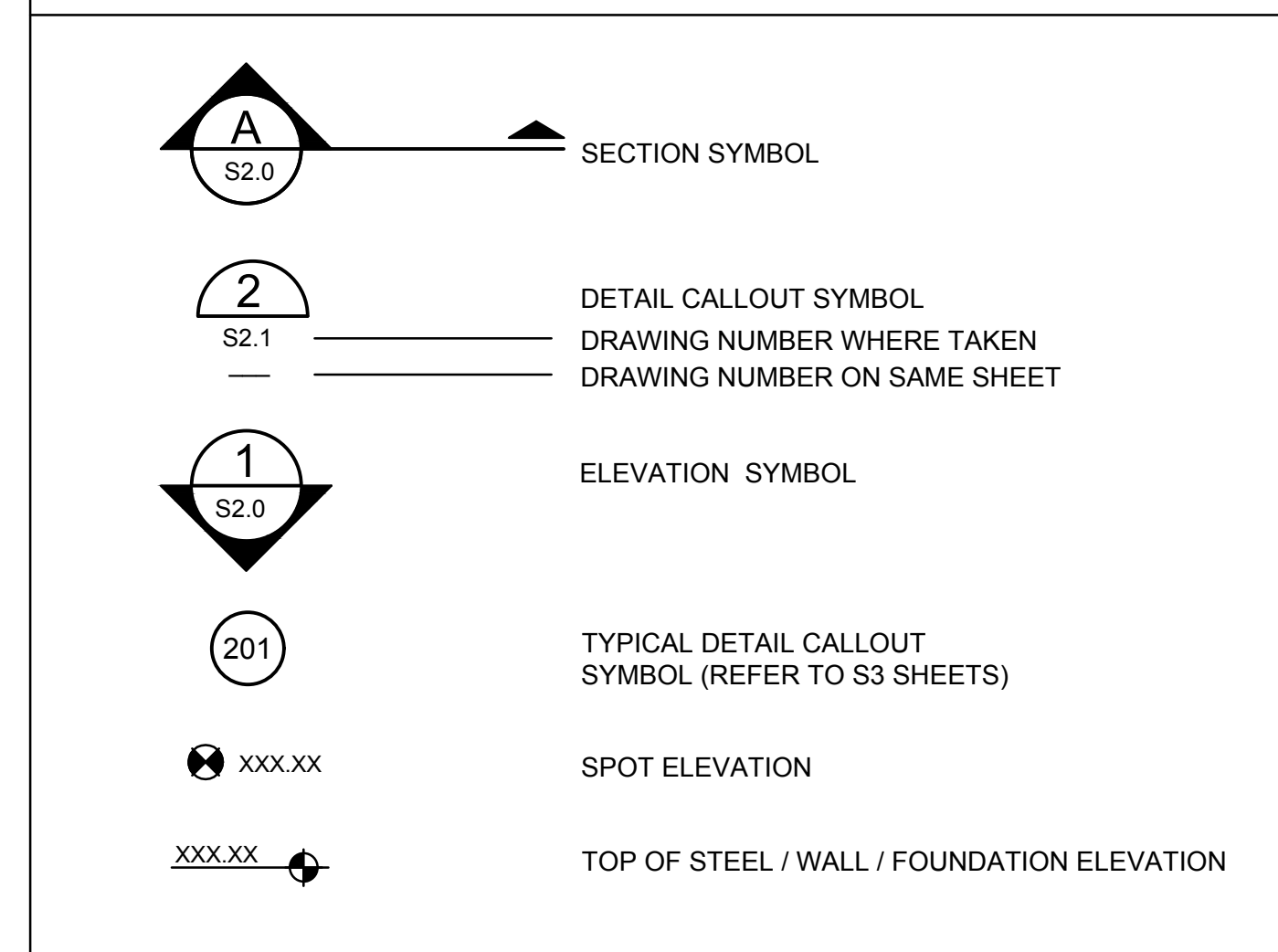
ANCHORS SHALL BE INSTALLED AND TORQUED IN COMPLETE ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- ANCHOR RODS USED IN ADHESIVE ANCHORING SYSTEMS SHALL CONFORM WITH ASTM A193, GRADE B7. MECHANICAL ANCHORING SYSTEMS SHALL BE ZINC PLATED CARBON STEEL, UNLESS NOTED OTHERWISE.

### POST INSTALLED ANCHORS, CONT:

- PROVIDE THE MINIMUM EMBEDMENT DEPTHS INDICATED IN THE FOLLOWING SCHEDULES, UNLESS NOTED OTHERWISE IN A SPECIFIC SECTION OR DETAIL.

ADHESIVE ANCHORS (MINIMUM EMBEDMENT)			MECHANICAL ANCHORS (MINIMUM EMBEDMENT)		
THREADED ANCHOR DIAMETER	CONCRETE	MASONRY	ANCHOR DIAMETER	CONCRETE	MASONRY
1/2"	4"	4 1/2"	1/2"	3 1/2"	3 1/2"
5/8"	5"	5 5/8"	5/8"	4 1/2"	4 1/2"
3/4"	6"	6 3/4"	3/4"	5 1/2"	5 1/2"
7/8"	7"	—			
1"	8"	—			

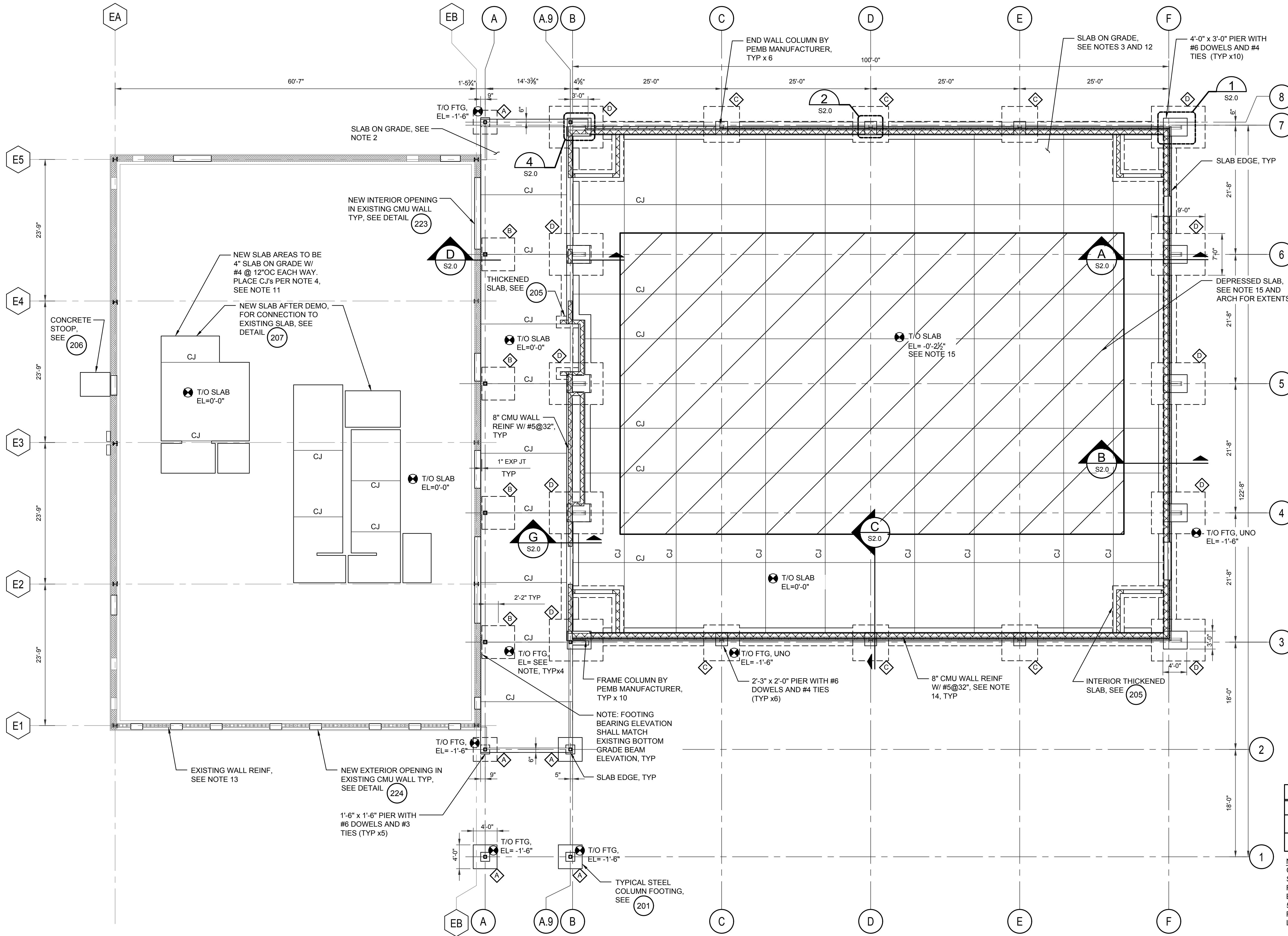
### SYMBOLS LEGEND



### STRUCTURAL ABBREVIATIONS

@	AT PLUS OR MINUS	IN	INT	INCH	INTERIOR
ADJ	ADJACENT	JST	JOIST		
ALUM	ALUMINUM	JT	JOINT		
APPROX	APPROXIMATE				
ARCH	ARCHITECTURAL	K	KIPS		
BLDG	BUILDING	LBS	POUNDS		
BM	BEAM	LLH	LONG LEG HORIZONTAL		
B.O.	BOTTOM OF	LLV	LONG LEG VERTICAL		
BOS	BOTTOM OF STEEL	LONG	LONGITUDINAL		
BOTT	BOTTOM	LP	LOW POINT		
BRNG	BEARING				
CJ	CONTROL / CONTRACTION JOINT	MAX	MAXIMUM		
CL	CENTER LINE	MECH	MECHANICAL		
CLR	CLEAR	MFR	MANUFACTURER		
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM		
COL	COLUMN	MISC	MISCELLANEOUS		
CONC	CONCRETE	N/A	NOT APPLICABLE		
CONN	CONNECTION	NTS	NOT TO SCALE		
CONT	CONTINUOUS				
CTR	CENTER	OC	ON CENTER		
		OPNG	OPENING		
		OPP	OPPOSITE		
D	DEPTH				
DBL	DOUBLE				
DIA	DIAMETER	PEMB	PRE-ENGINEERED METAL BUILDING		
DIM	DIMENSION	PJF	PREMOLDED JOINT FILLER		
DN	DOWN	PL	PLATE		
DWG	DRAWING				
DWL	DOWEL	QTY	QUANTITY		
EA	EACH	RECT	RECTANGULAR		
EF	EACH FACE	REINF	REINFORCEMENT		
EJ	EXPANSION JOINT	REQD	REQUIRED		
EL	ELEVATION				
EMBED	EMBEDMENT	SCHED	SCHEDULE		
EOD	EDGE OF DECK	SECT	SECTION		
EOS	EDGE OF SLAB	SIM	SIMILAR		
EQL SP	EQUALLY SPACED	SOG	SLAB ON GRADE		
EQUIP	EQUIPMENT	SPEC	SPECIFICATION		
EW	EACH WAY	STD	STANDARD		
EXIST	EXISTING	STIF	STIFFENER		
EXT	EXTERIOR	STL	STEEL		
		STRUCT	STRUCTURAL		
FD	FLOOR DRAIN	T&B	TOP AND BOTTOM		
FDN	FOUNDATION	T.O.	TOP OF		
FF	FINISHED FLOOR	TOC	TOP OF CONCRETE		
FL	FLOOR	TOF	TOP OF FOOTING		
FT	FEET	TOS	TOP OF STEEL		
FTNG	FOOTING	TYP	TYPICAL		
GALV	GALVANIZED				
GB	GRADE BEAM	UNO	UNLESS NOTED OTHERWISE		
HDRL	HANDRAIL	VERT	VERTICAL		
HORIZ	HORIZONTAL				
HP	HIGH POINT	W/	WITH		
HSS	HOLLOW STRUCTURAL SECTION	W/O	WITHOUT		
		WP	WORK POINT		
		WT	WEIGHT		
		WWF	WELDED WIRE FABRIC		





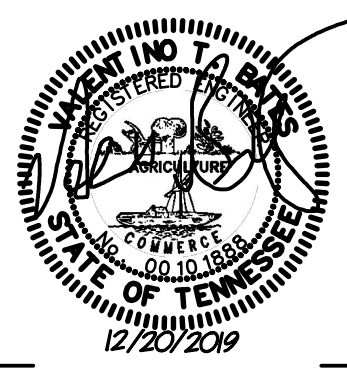
- NOTES:**
- FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND, SEE SHEETS S0.0 AND S0.1.
  - 4" CONCRETE SLAB ON GRADE REINFORCED W/ 6x6-W2.9xW2.9 WWR. REINFORCING SHALL BE LOCATED 1/2" BELOW TOP OF SLAB. SLAB SHALL BE PLACED ON 10 MIL-VAPOR RETARDER OVER 6" LAYER OF CRUSHED AGGREGATE, UNLESS NOTED OTHERWISE.
  - CONCRETE SLAB ON GRADE, THICKNESS VARIES. REINFORCE WITH #4@12" OC EACH WAY. SEE SECTIONS ON S2.0.
  - CONTRACTION JOINTS (CJ) ARE SHOWN ON PLAN. FOR JOINT LOCATIONS, SEE ARCHITECTURAL DRAWINGS. UNLESS OTHERWISE SHOWN ON DRAWINGS, PLACE CONTROL JOINTS AT COLUMN LINES AND AT INTERMEDIATE LINES SUCH THAT AREA OF EACH PANEL DOES NOT EXCEED 225 SQUARE FEET. CONTRACTOR TO SUBMIT PLACING PLANS SHOWING LOCATION OF SLAB CONTROL JOINTS AND CONSTRUCTION JOINTS. PLANS ARE SUBJECT TO PRIOR APPROVAL. CONSTRUCTION JOINTS SHALL HAVE DIAMOND DOWELS PLACED AT THE CENTER OF SLAB SPACED AT 18" OC, SEE DETAIL 203.
  - ALL SLAB PENETRATIONS ARE NOT SHOWN. CONTRACTOR SHALL COORDINATE ALL SLAB PENETRATION LOCATIONS WITH MECHANICAL AND PLUMBING DRAWINGS.
  - SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS LOCATING ALL WALLS AND WALL OPENINGS.
  - ALL UNPAINTED OR UNCOATED EXTERIOR STEEL MATERIAL SHALL BE GALVANIZED AND CONNECTED WITH A316 STAINLESS STEEL BOLTS.
  - ALL FRAME AND END WALL COLUMN LOCATIONS SHALL BE COORDINATED WITH THE PEMB (PRE-ENGINEERED METAL BUILDING) MANUFACTURER AND ARCHITECTURAL DRAWINGS.
  - AT THE INTERSECTION OF CMU WALL AND CONCRETE SLAB OR CMU WALL AND CONCRETE WALL ABOVE FINISH FLOOR, USE 1/2" PJF TYPICAL UNO.
  - PER GEOTECHNICAL ENGINEER REPORT, CONTRACTOR SHALL UNDERCUT 30" BELOW FOUNDATION BEARING LEVEL IN FOOTING AREAS AND 30" BELOW SOIL SUBGRADE BENEATH PROPOSED FLOOR SLABS. UNDERCUT SHALL EXTEND AT LEAST 5 FT HORIZONTALLY BEYOND THE BUILDING PERIMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL RECOMMENDATIONS TO PREPARE SUBGRADE FOR ITS INTENDED USES.
  - COORDINATE NEW SLAB EXTENT DIMENSIONS WITH PLUMBING AND ARCHITECTURAL DRAWINGS.
  - CONCRETE SLAB AROUND WOOD GYM FLOOR SHALL HAVE A FLOOR FLATNESS, F1 EQUAL TO 35 AND A FLOOR LEVELNESS, F1 OF 25.
  - EXISTING WALL REINFORCEMENT IN WEST WALL WAS LOCATED VIA WALL SCAN. NEW OPENINGS WITH REINFORCEMENT ON THE SIDE OF THE OPENING DO NOT REQUIRE ADDITIONAL REINFORCING. LOCATIONS INDICATED ARE APPROXIMATE AND SHOULD BE VERIFIED PRIOR TO PLACING OPENING REINFORCING.
  - PLACE CMU WALL CONTROL JOINTS AT EACH SLAB CONTROL JOINT AND ON THE SIDE OF EACH FRAME COLUMN.
  - COORDINATE THE DEPTH OF RECESS WITH WOOD FLOOR MANUFACTURER.

FOOTING LOAD SCHEDULE				
MARK	P (DOWN)	P (UP)	V (HORIZ)	MOMENT
C	12 K	0 K	7 K	0 FT-K
D	44 K	6 K	18 K	0 FT-K

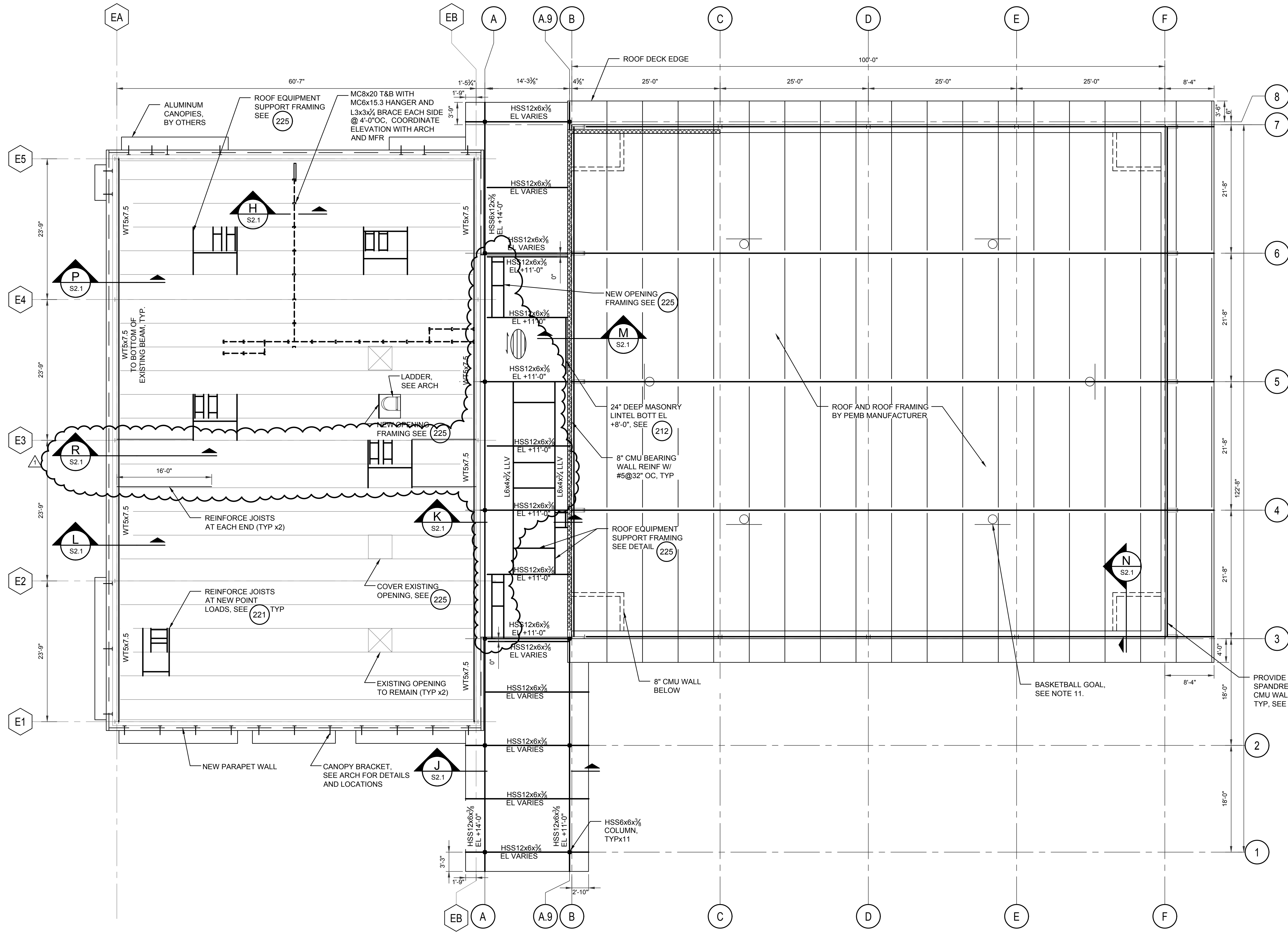
**NOTE:**  
CONTRACTOR SHALL VERIFY FOOTING REACTIONS NOTED IN SCHEDULE ABOVE WITH METAL BUILDING MANUFACTURER FINAL BUILDING REACTIONS. IF FINAL BUILDING REACTIONS EXCEED REACTIONS NOTED IN SCHEDULE BY MORE THAN 5%, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-DESIGN OF FOUNDATIONS BY A QUALIFIED ENGINEER LICENSED IN THE STATE OF TENNESSEE.

FOUNDATION SCHEDULE					
MARK	SIZE	THK	FTNG REINFORCEMENT	PIER	PIER REINFORCEMENT
A	4'-0"x4'-0"	1'-0"	5-#6 EW T&B	1'-6" SQUARE	8-#6 DOWELS AND #3 @ 6"OC
B	5'-6"x5'-6"	1'-0"	6-#6 EW T&B	N/A	N/A
C	6'-0"x6'-0"	1'-6"	#6@12" OC, EW, T&B	2'-3" x 2'-0"	12-#6 DOWELS AND #4 @ 6"OC
D	9'-0"x7'-0"	1'-6"	#6@12" OC, EW, T&B	4'-0" x 3'-0"	24-#6 DOWELS AND #4 @ 6"OC

**FOUNDATION PLAN**  
1/8"=1'-0"  
NORTH







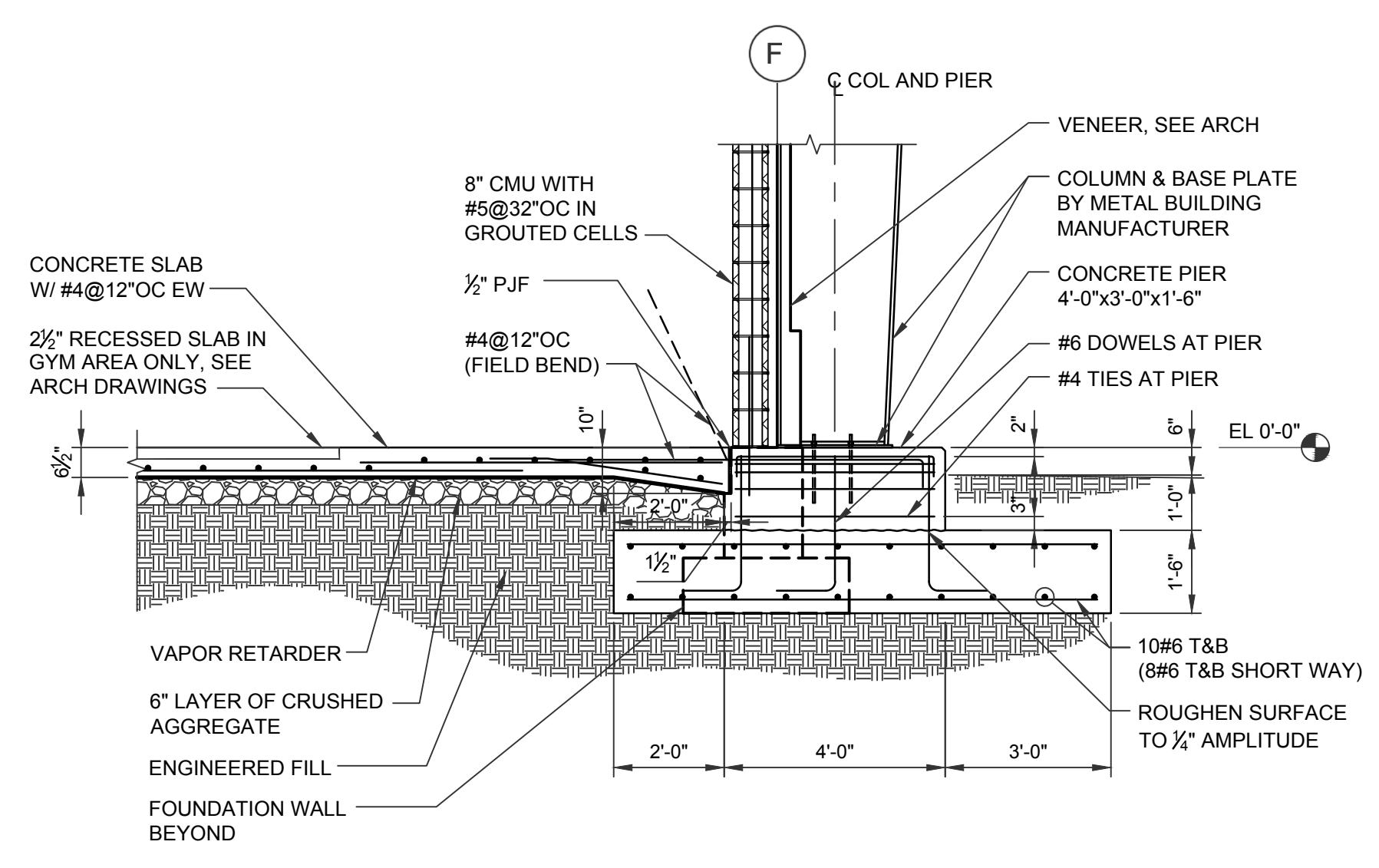
- NOTES**
- FOR GENERAL STRUCTURAL NOTES, ABBREVIATIONS AND SYMBOLS LEGEND, SEE SHEETS S0.0 AND S0.1.
  - INDICATES ROOF DECK SPAN.
  - ROOF DECK SHALL BE 3" DEEP, 18 GAGE DECKING UNO.
  - EL. +X"=X" INDICATES ELEVATION TO TOP OF STEEL UNO.
  - FOR DIMENSIONS LOCATING ALL WALLS, SEE ARCHITECTURAL DWGS.
  - COORDINATE ALL WALL AND SLAB OPENINGS WITH ARCH, MECH, AND PLUMBING DWGS.
  - COORDINATE WITH MECHANICAL DRAWINGS FOR EQUIPMENT LOCATIONS. COORDINATE WITH MECHANICAL AND EQUIPMENT MANUFACTURER FOR ANY OPENINGS THAT INTERFERE WITH EXISTING STEEL JOISTS.
  - ALL NEW INTERIOR WALLS MAY NOT BE SHOWN. REFER TO ARCHITECTURE FOR ALL WALL LOCATIONS.
  - PROVIDE W12x30 SPANDREL BEAMS TO SUPPORT TOP OF CMU WALL. SPANDREL BEAM DESIGNED TO RESIST A HORIZONTAL LOAD OF 350 PLF (DESIGN WIND). SEE ARCH DRAWINGS FOR TOP OF WALL ELEVATIONS. BRACE SPANDREL BEAM AS REQUIRED. REFER TO DETAIL Q/S2.1.
  - ALL LINTELS MAY NOT BE SHOWN FOR LINTELS IN NEW WALLS SEE (212) AND FOR LINTELS IN EXISTING WALLS SEE (224).
  - SUPPORT BASKETBALL GOALS FROM PEMB ROOF FRAMING. CONTRACTOR TO COORDINATE ACTUAL LOAD WITH PEMB AND GOAL MANUFACTURERS (TYP FOR 6 GOALS).



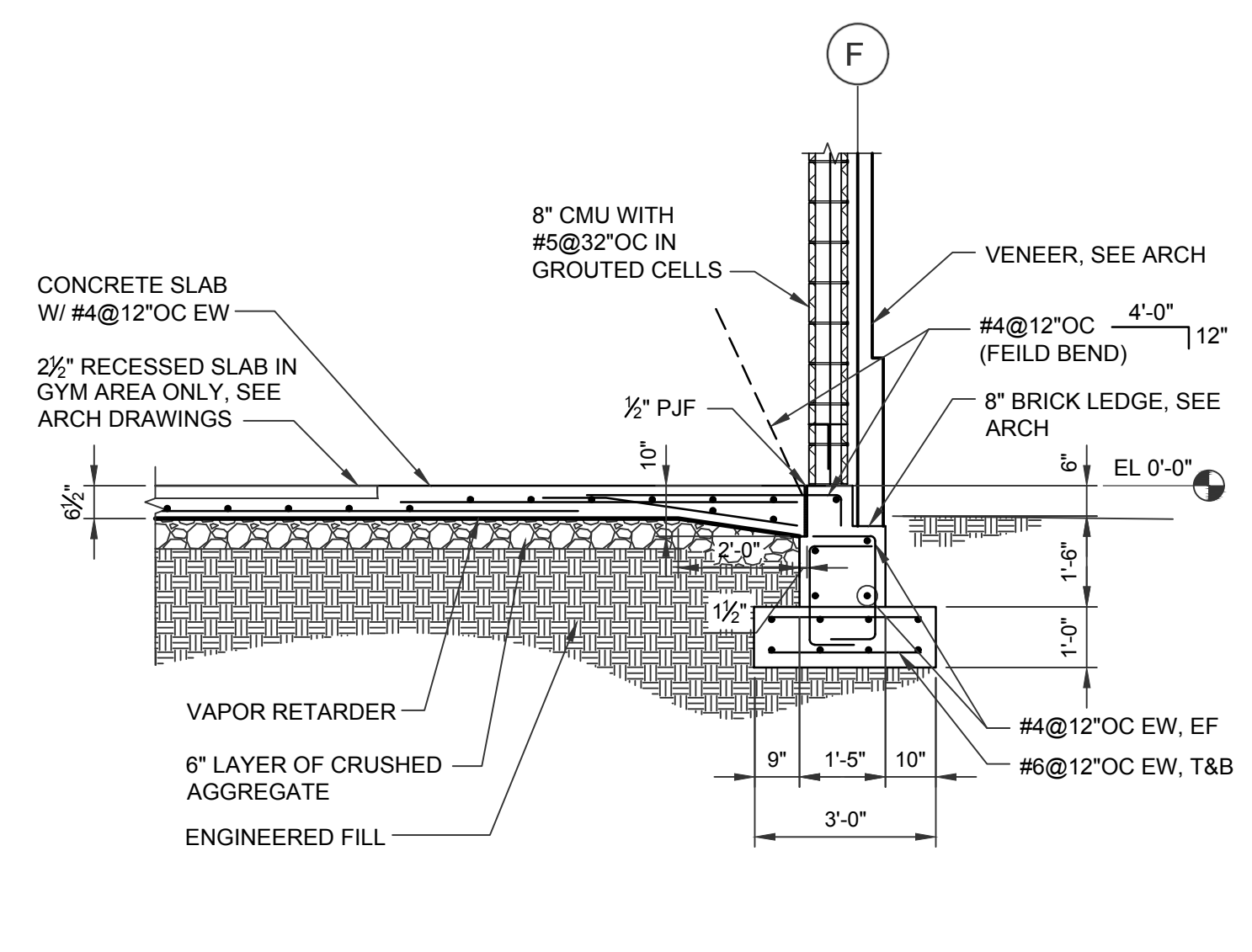
ISSUE DATES  
 INITIAL ISSUE 12-20-19  
 1. ADD 04 01-09-20

**ROOF PLAN**  
 1/8"=1'-0"  
 NORTH

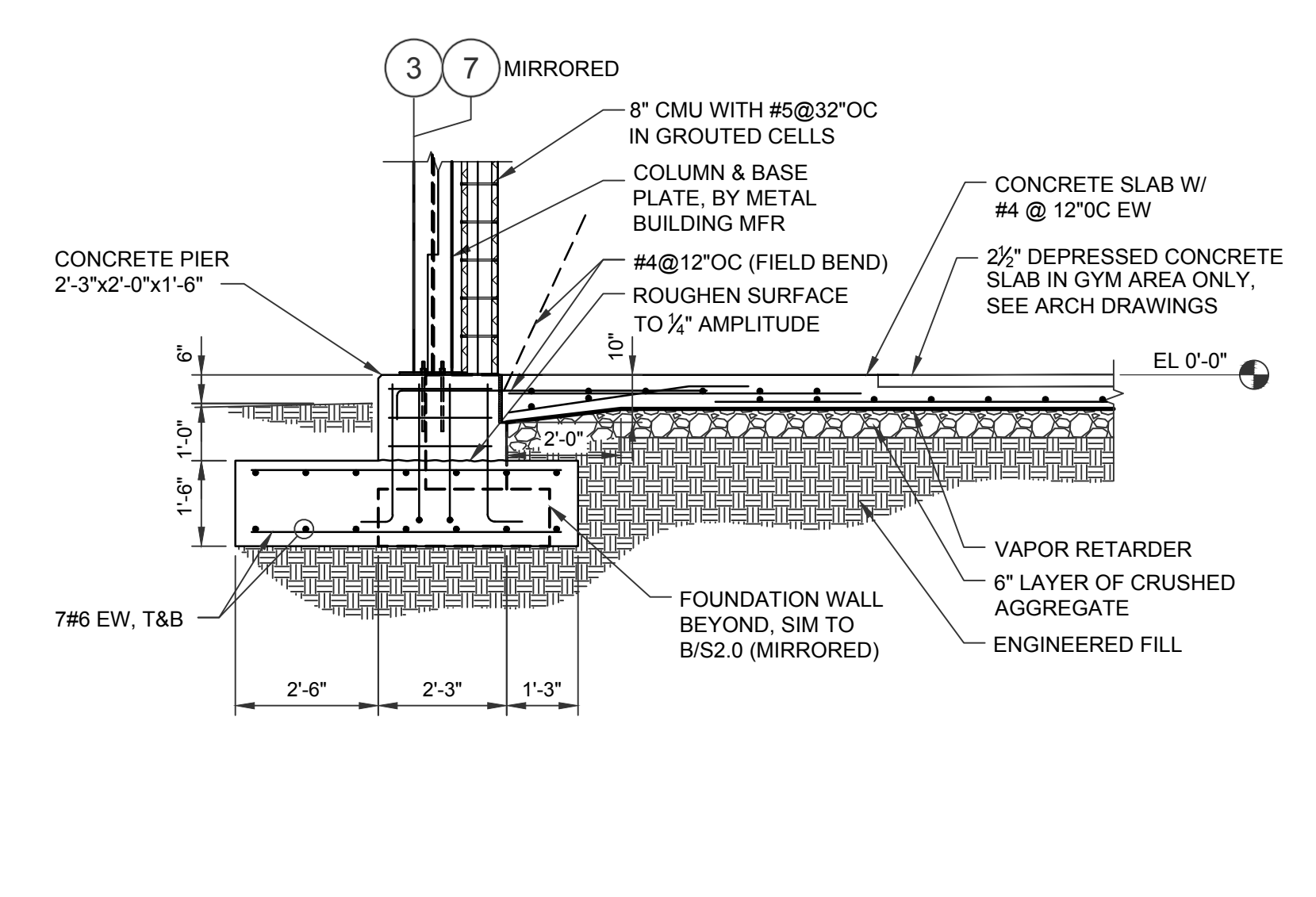




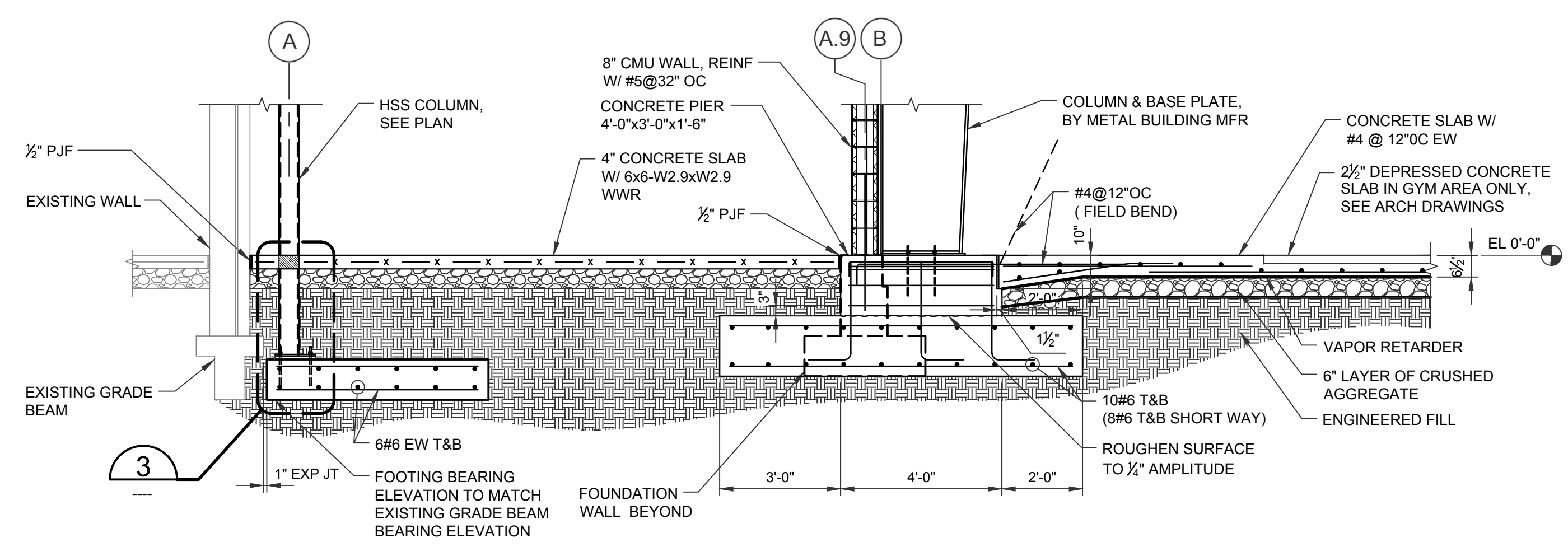
**SECTION A**  
 SCALE: 3/8" = 1'-0" S1.0



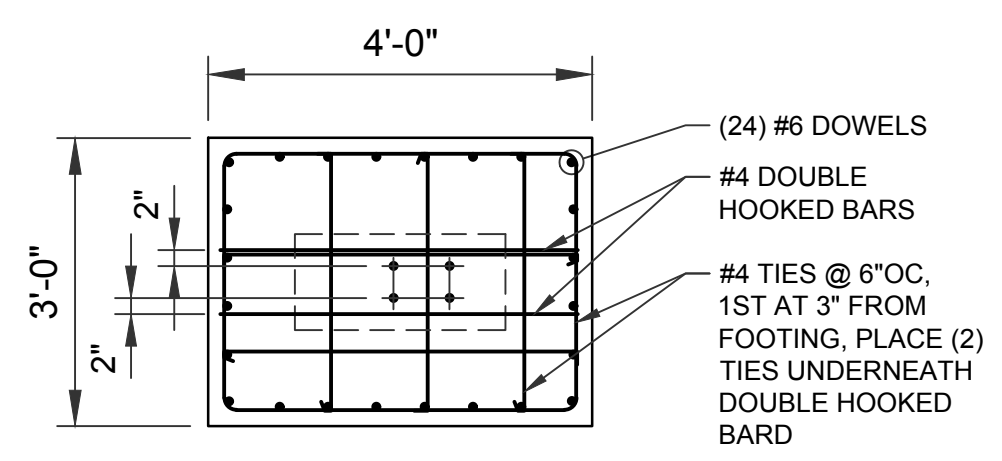
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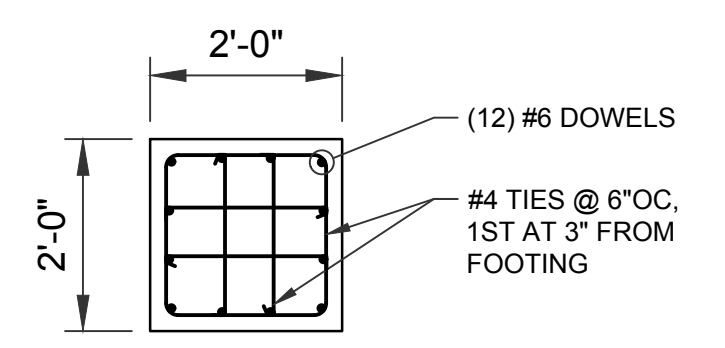
**SECTION C**  
 SCALE: 3/8" = 1'-0" S1.0



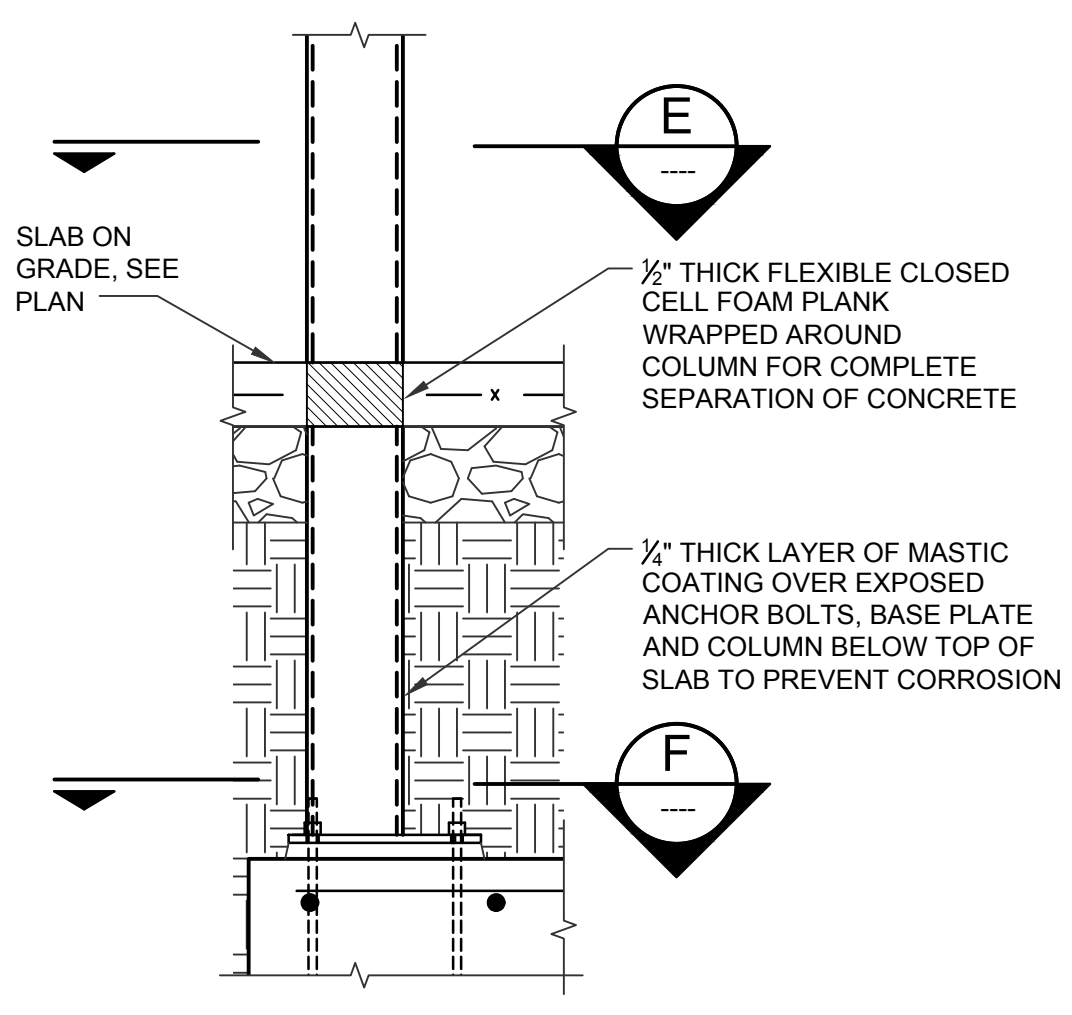
**SECTION D**  
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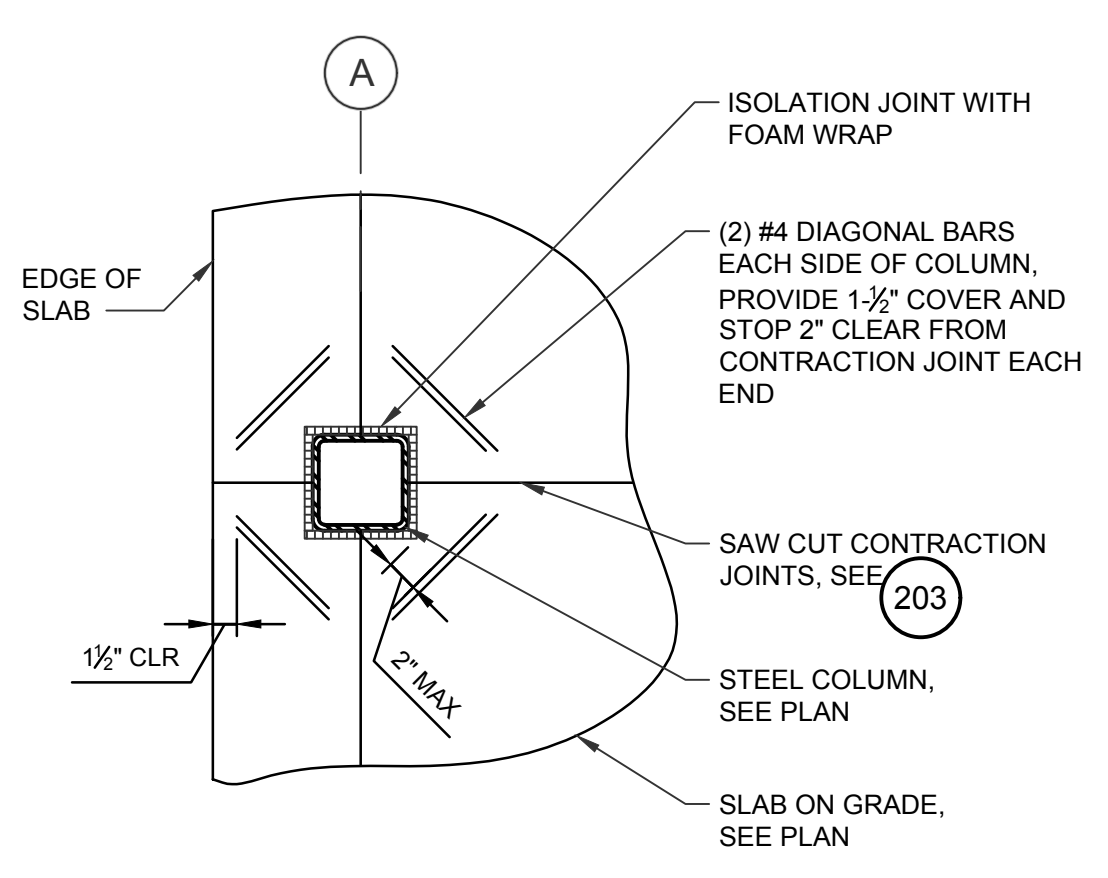
**DETAIL 1**  
 SCALE: 1/2" = 1'-0" S1.0



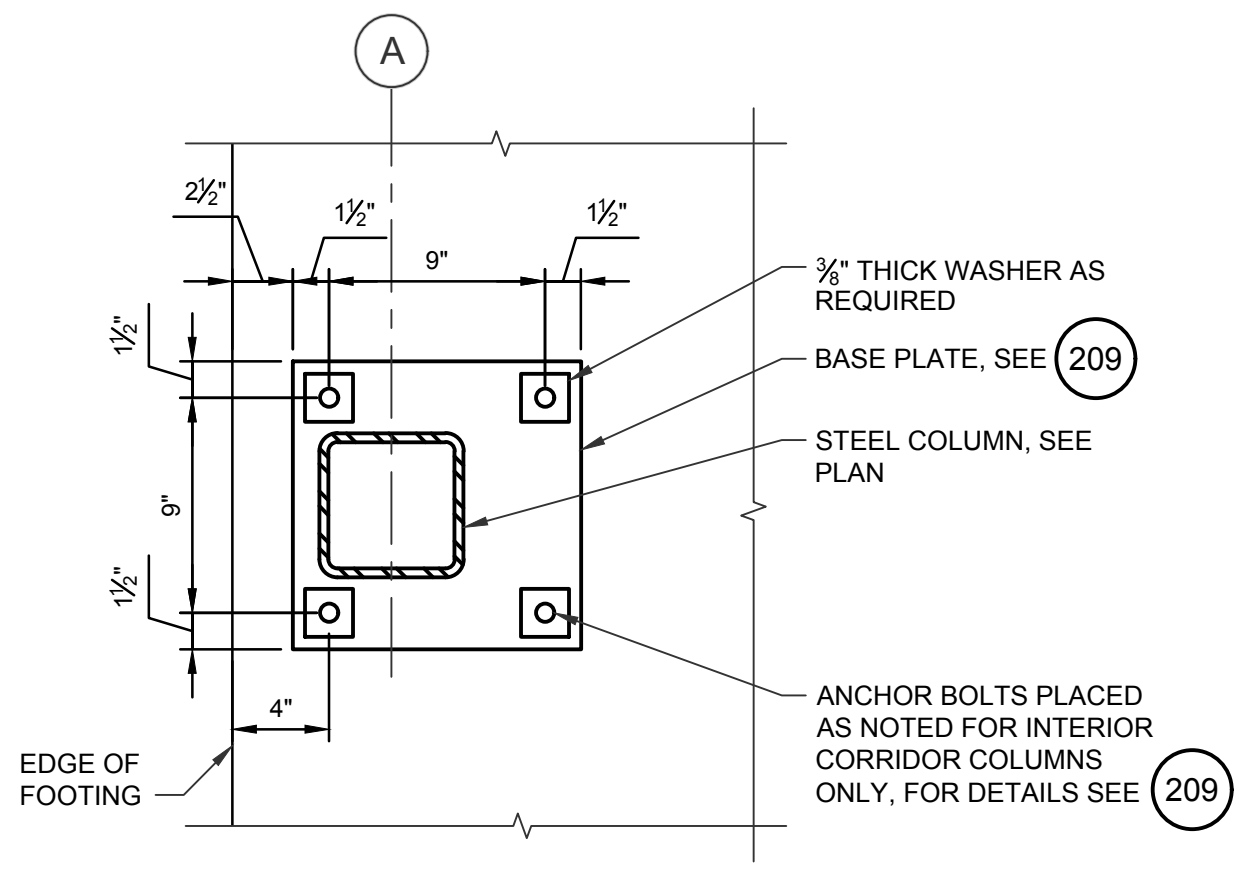
**DETAIL 2**  
 SCALE: 1/2" = 1'-0" S1.0



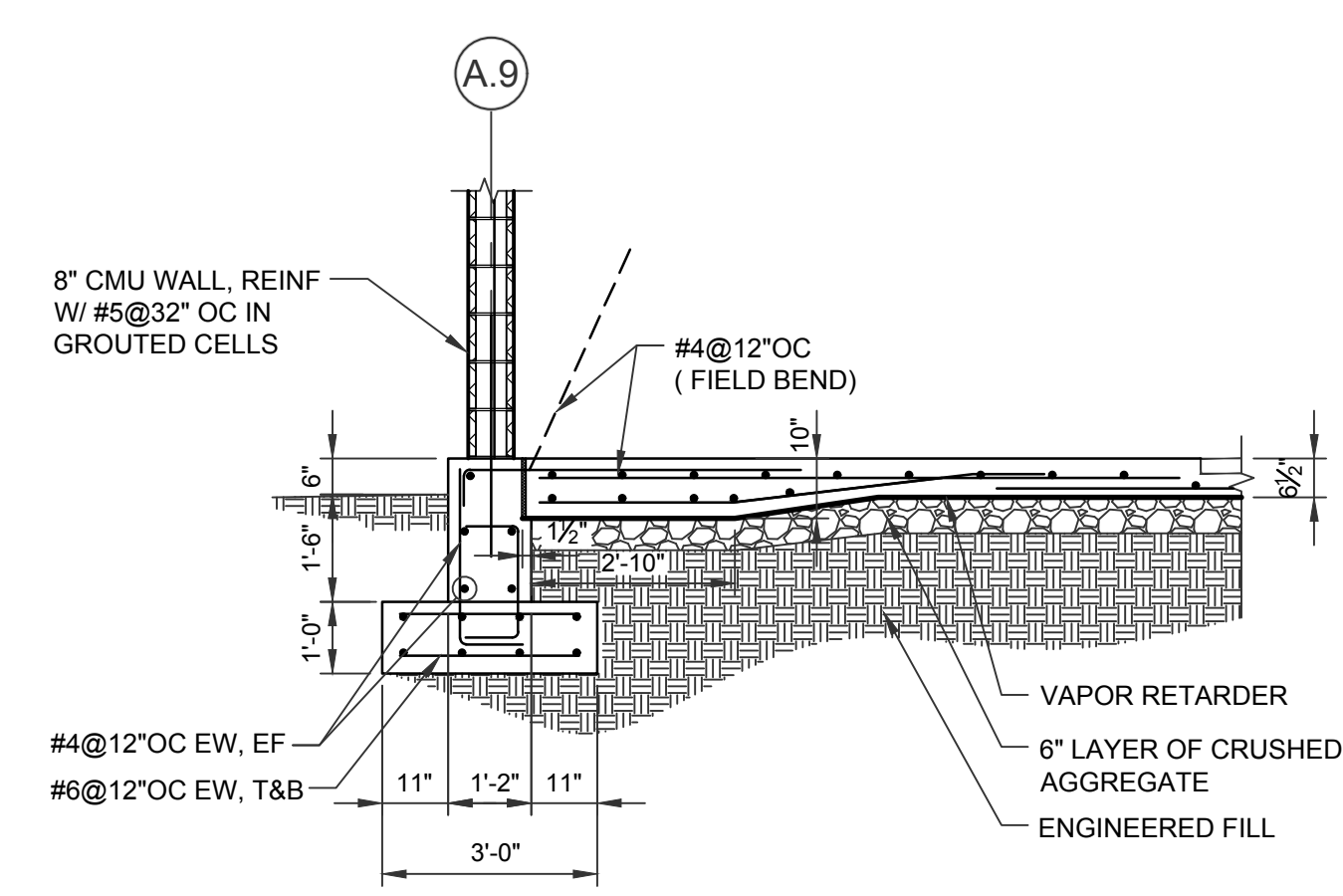
**DETAIL 3**  
 SCALE: 1" = 1'-0" ---



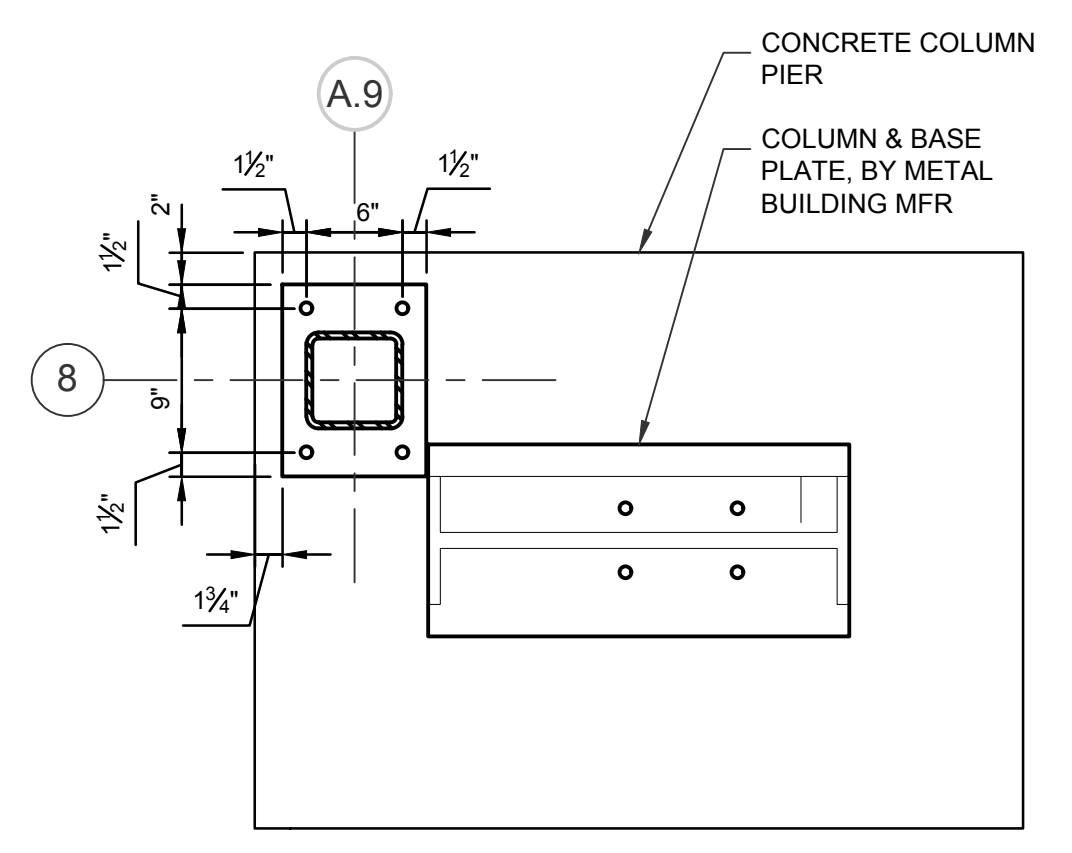
**SECTION E**  
 SCALE: 1" = 1'-0" ---



**SECTION F**  
 SCALE: 1-1/2" = 1'-0" ---

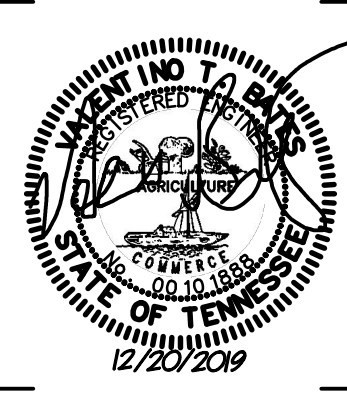


**SECTION G**  
 SCALE: 3/8" = 1'-0" S1.0



**DETAIL 4**  
 SCALE: 1" = 1'-0" S1.0

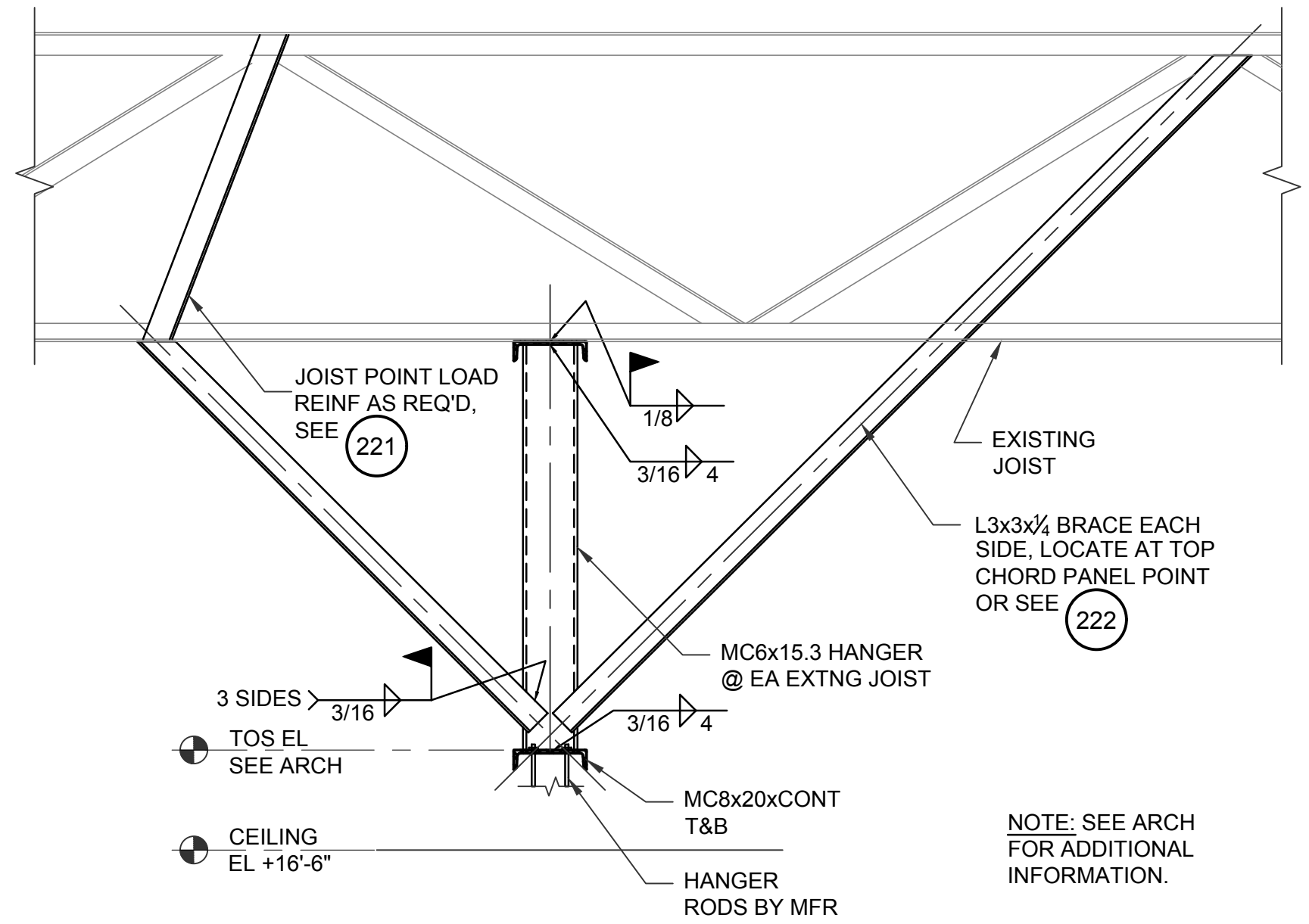
NOTE: DETAIL SIMILAR AT COLUMN LINES A.9 AND 3 (MIRRORED).



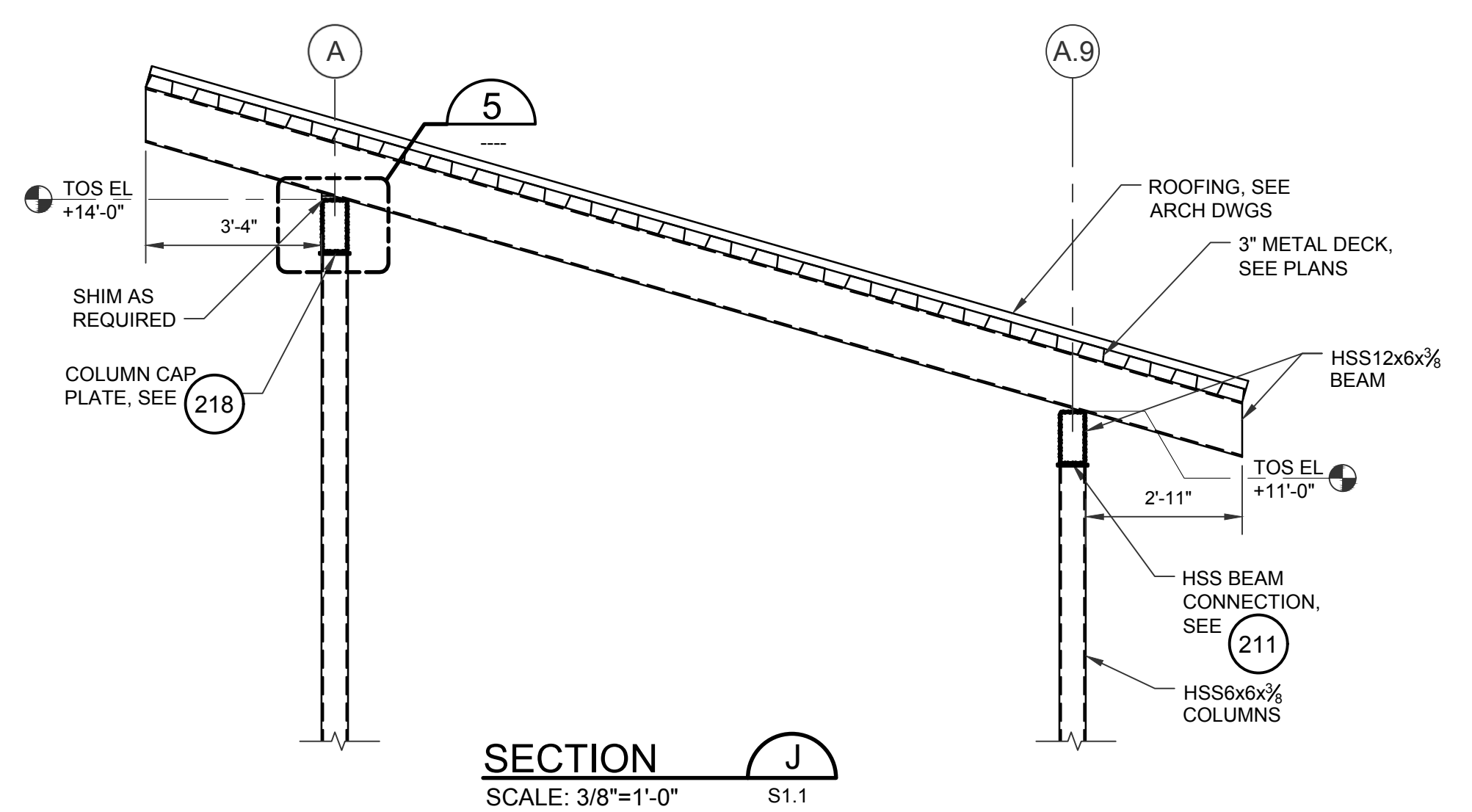
ISSUE DATES  
 INITIAL ISSUE 12-20-19  
 1. XXXX XX-XX-XX

JOB NO. | DWN | CK'D  
 18-072 | APWD | DOBD

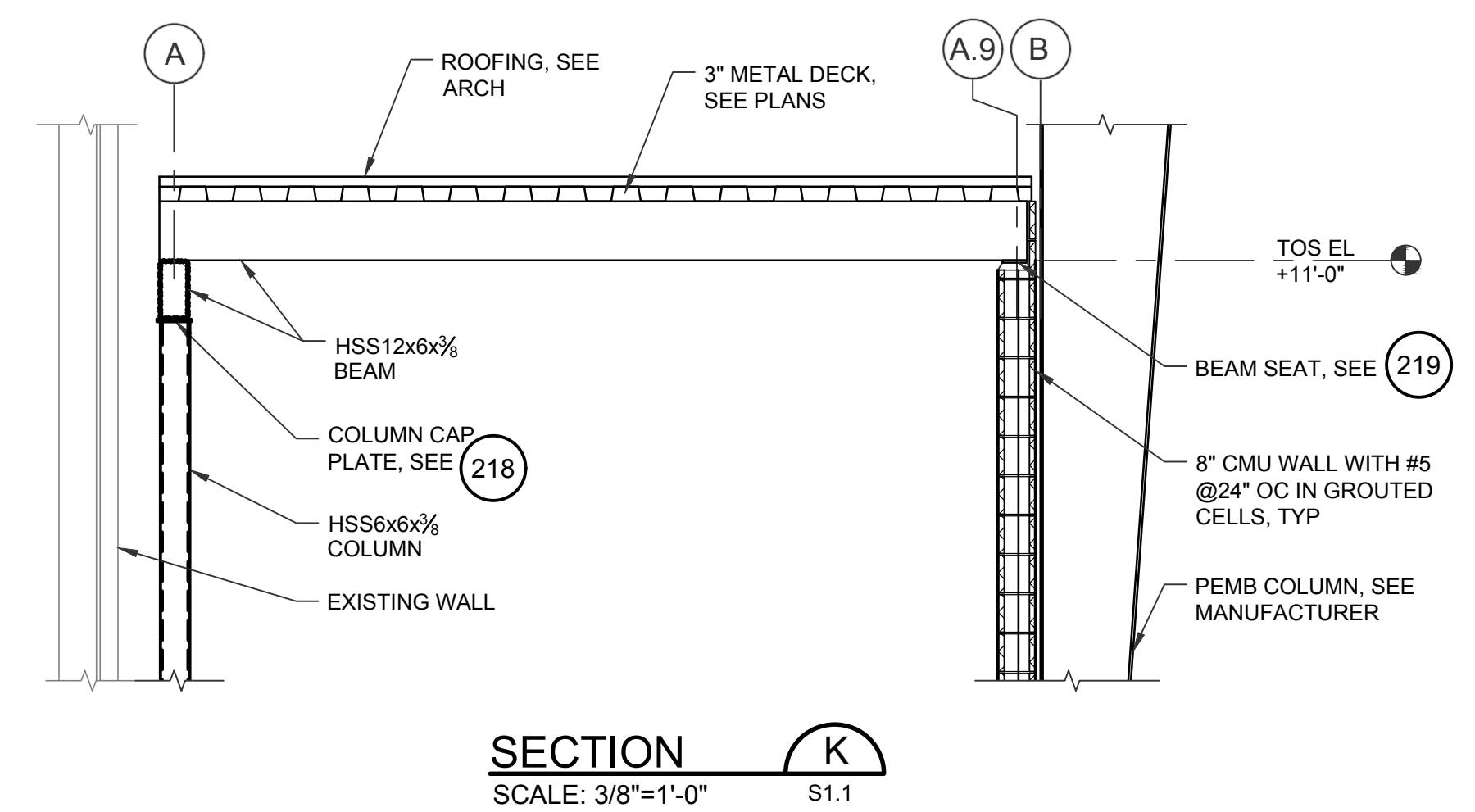




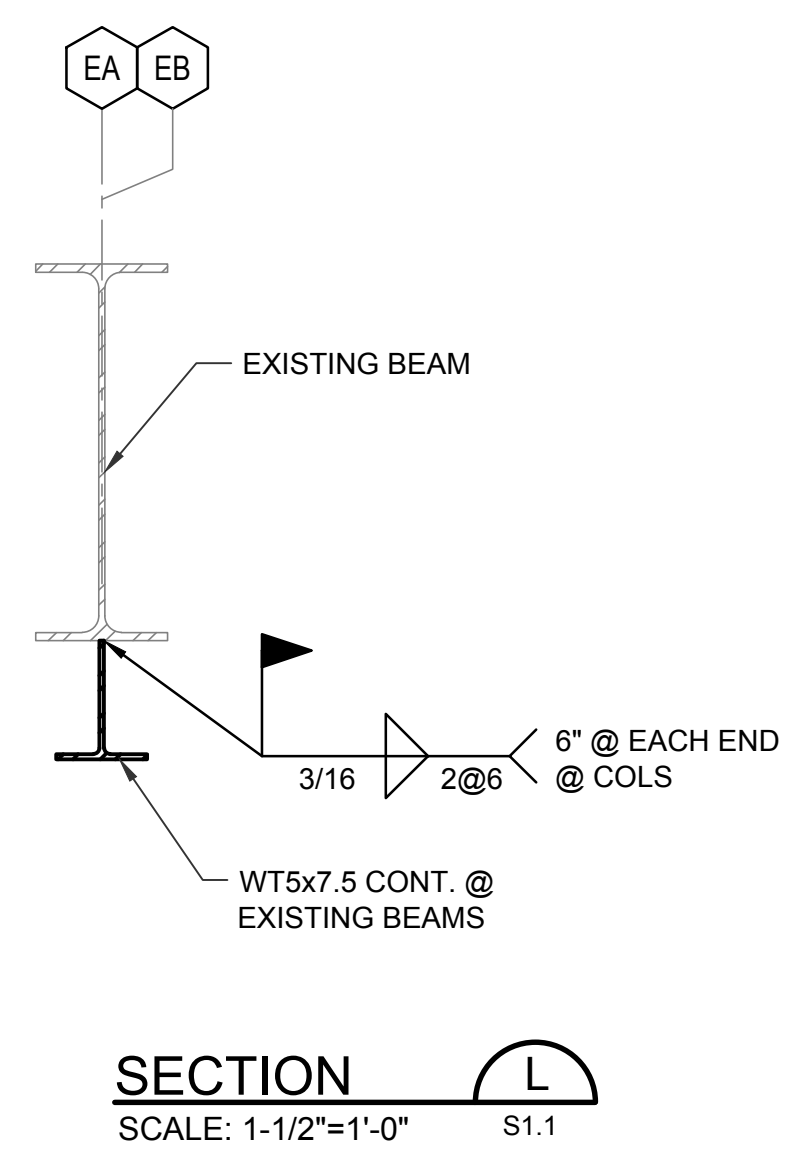
**SECTION H**  
SCALE: 3/4"=1'-0"  
S1.1



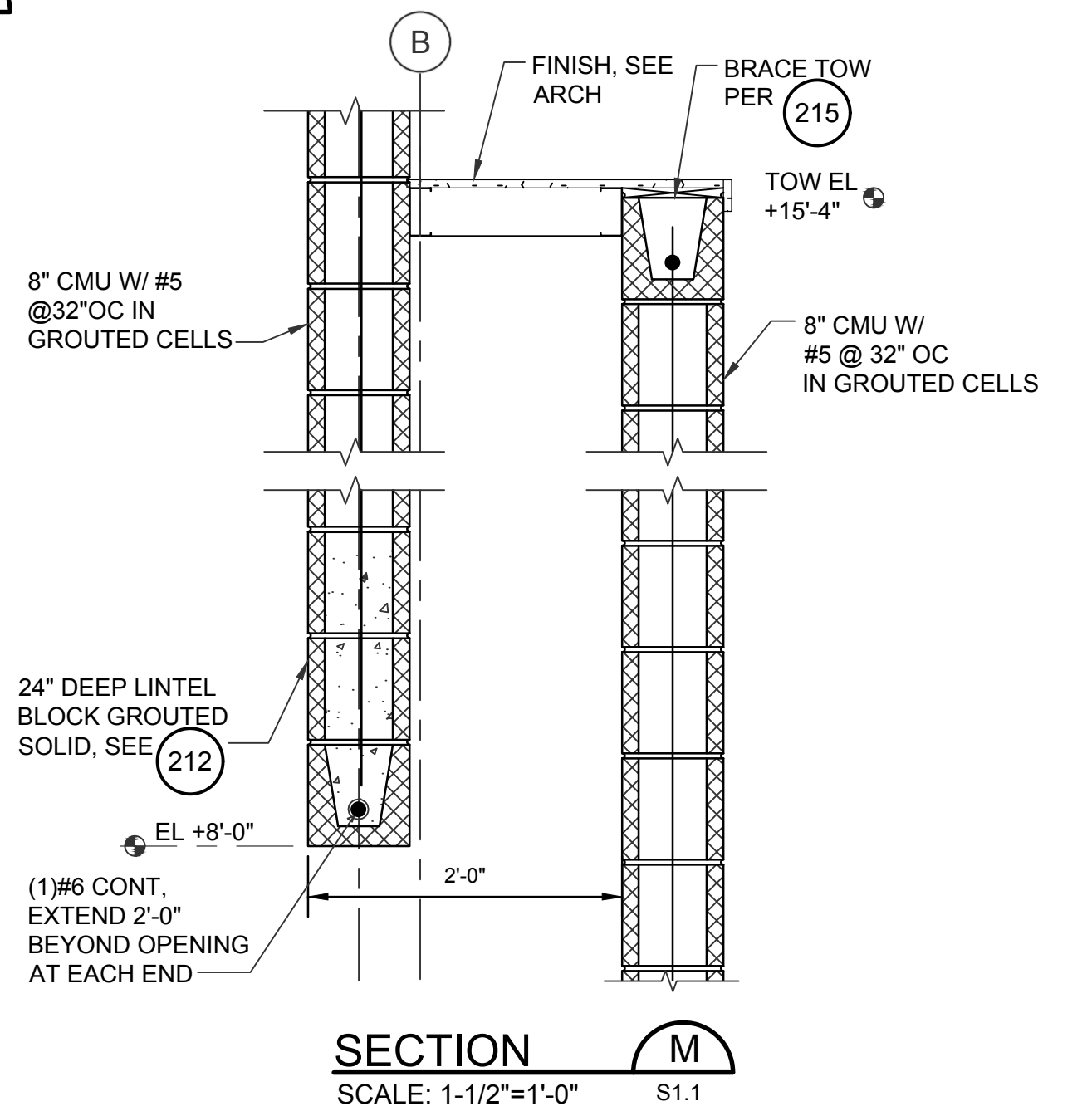
**SECTION J**  
SCALE: 3/8"=1'-0"  
S1.1



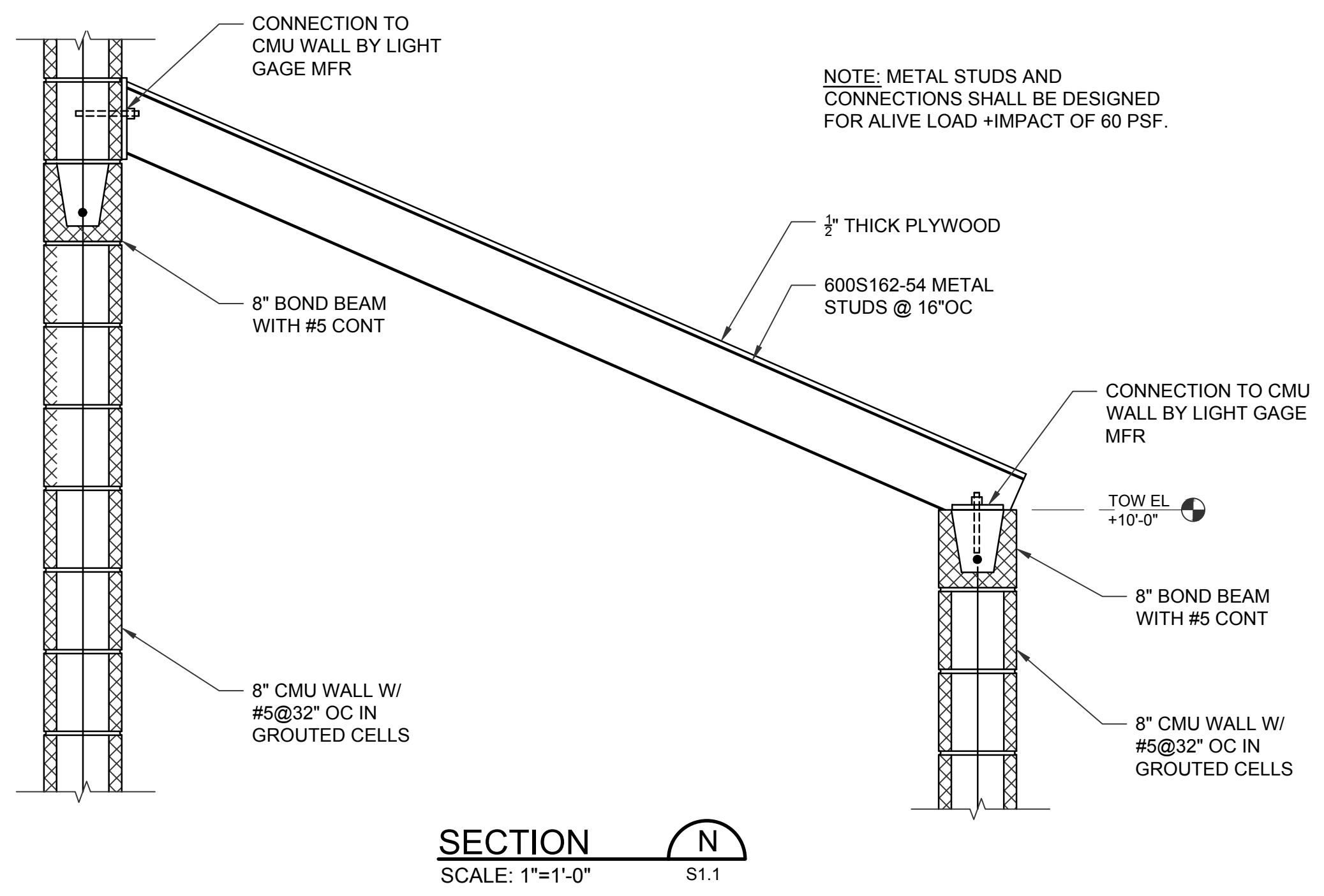
**SECTION K**  
SCALE: 3/8"=1'-0"  
S1.1



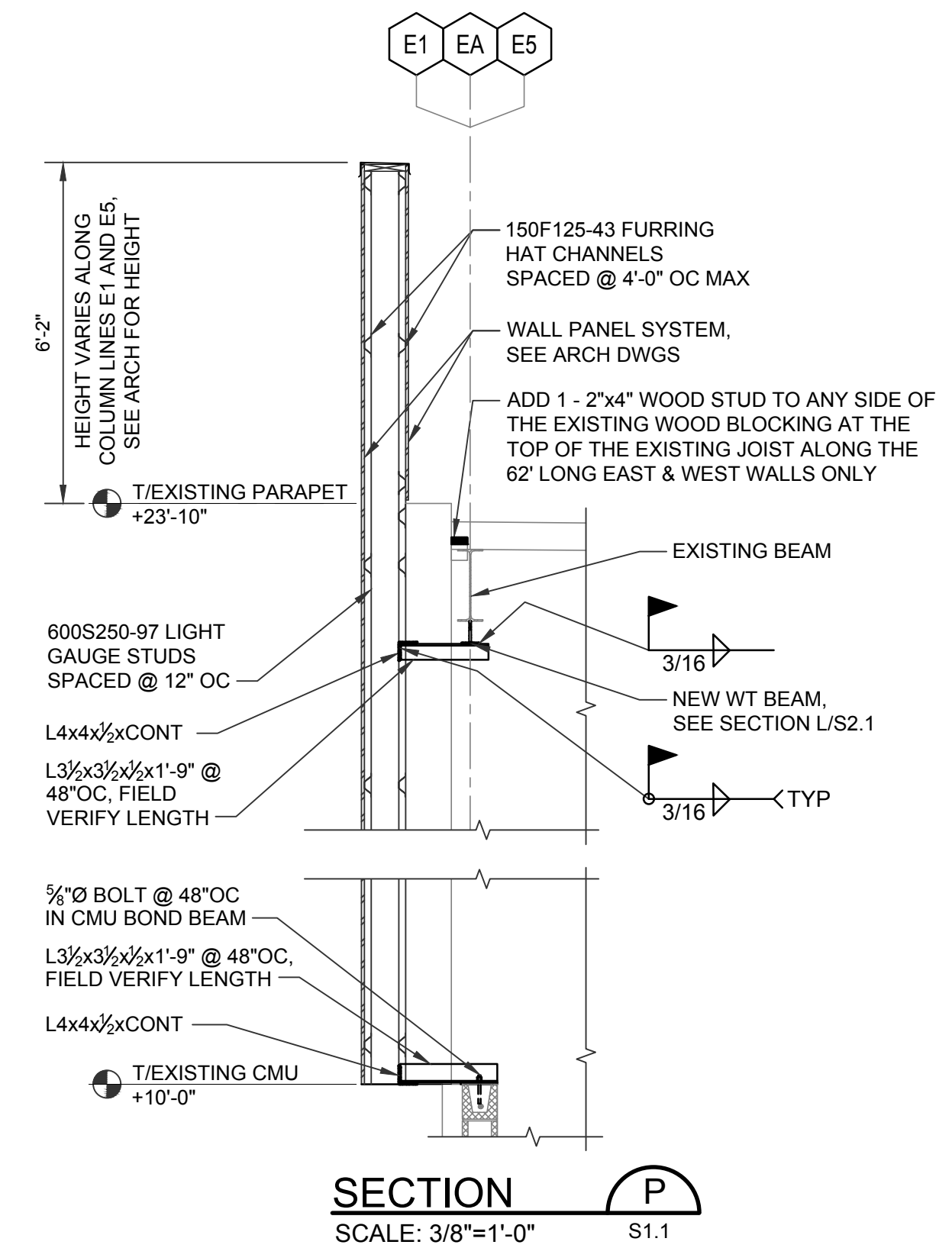
**SECTION L**  
SCALE: 1-1/2"=1'-0"  
S1.1



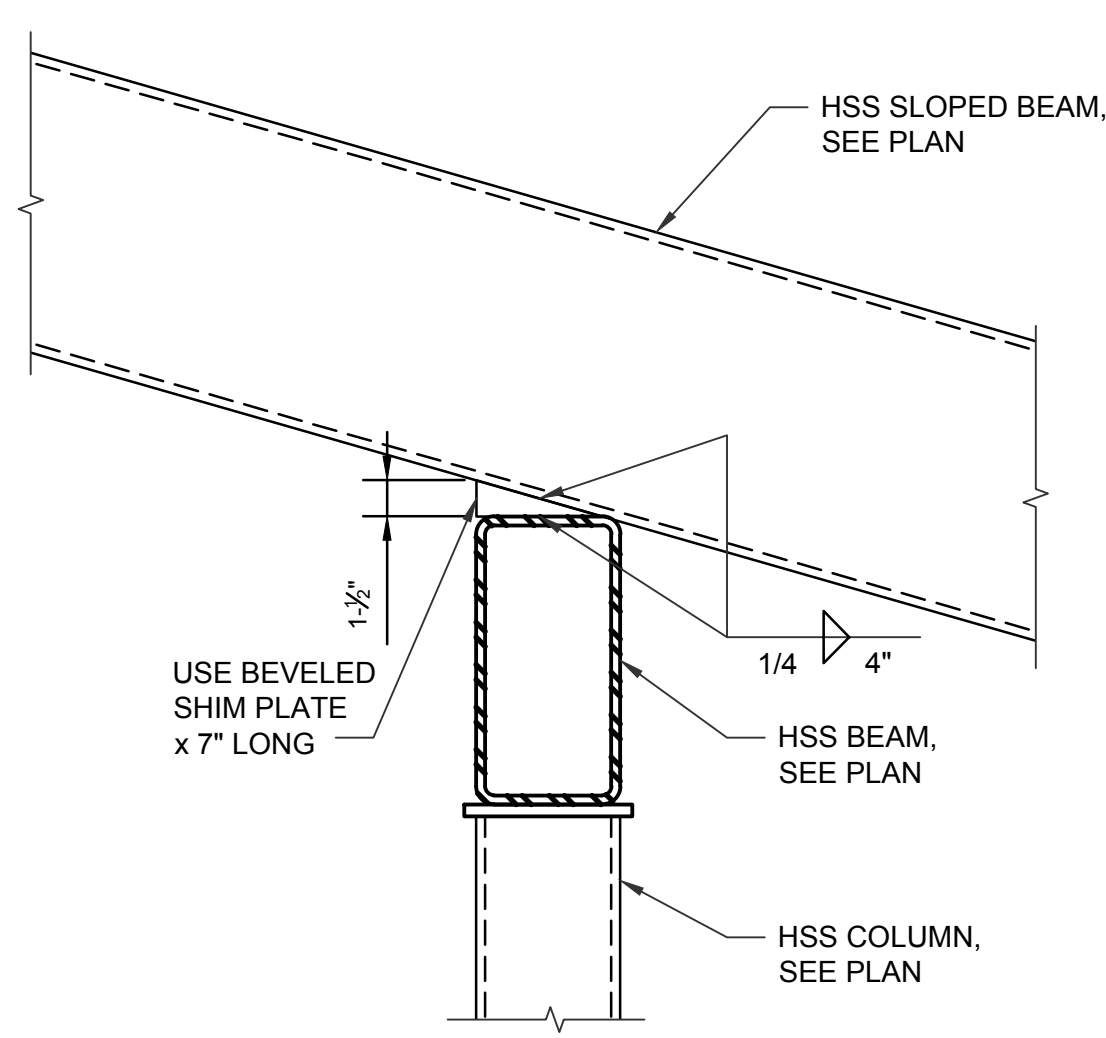
**SECTION M**  
SCALE: 1-1/2"=1'-0"  
S1.1



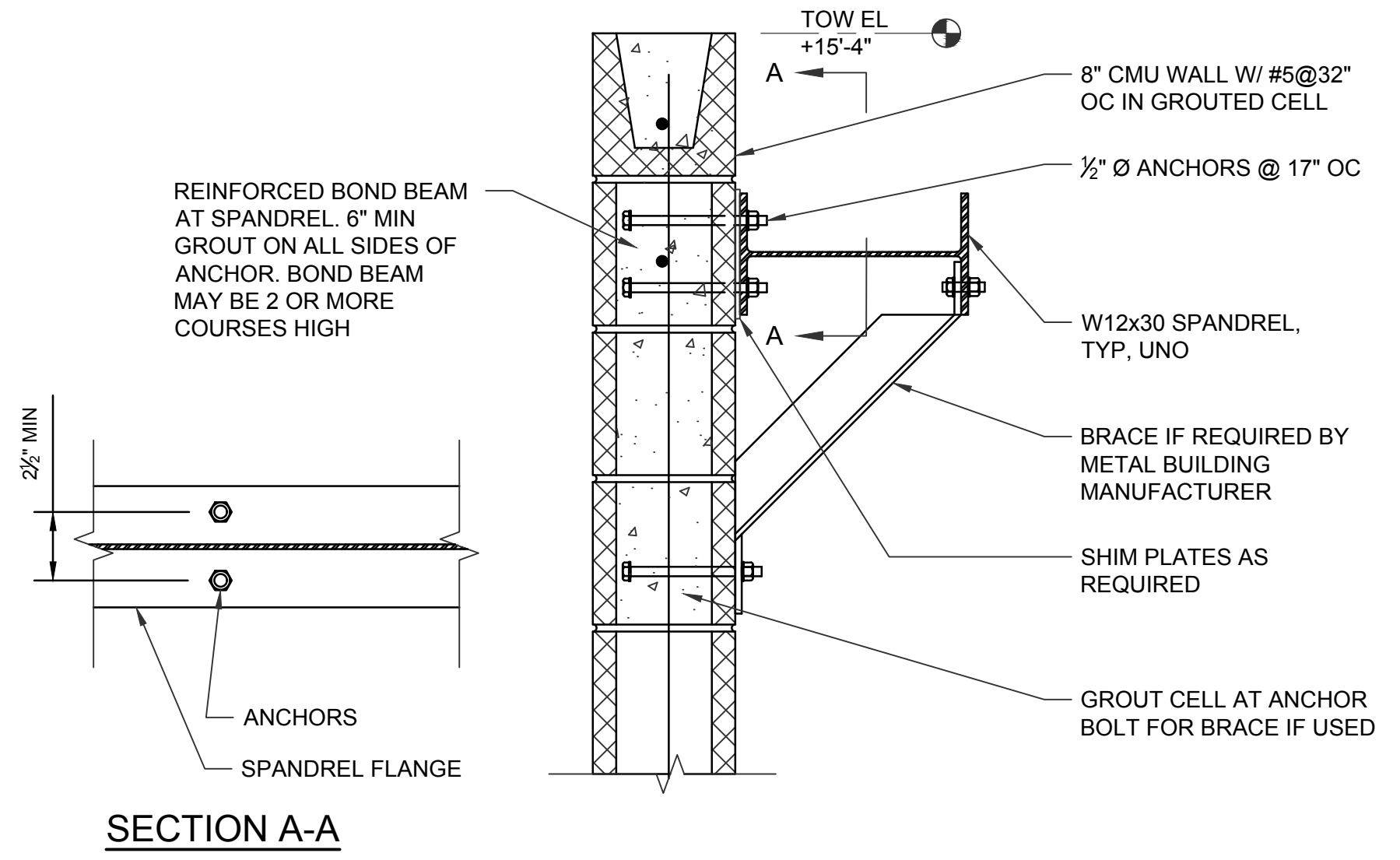
**SECTION N**  
SCALE: 1"=1'-0"  
S1.1



**SECTION P**  
SCALE: 3/8"=1'-0"  
S1.1

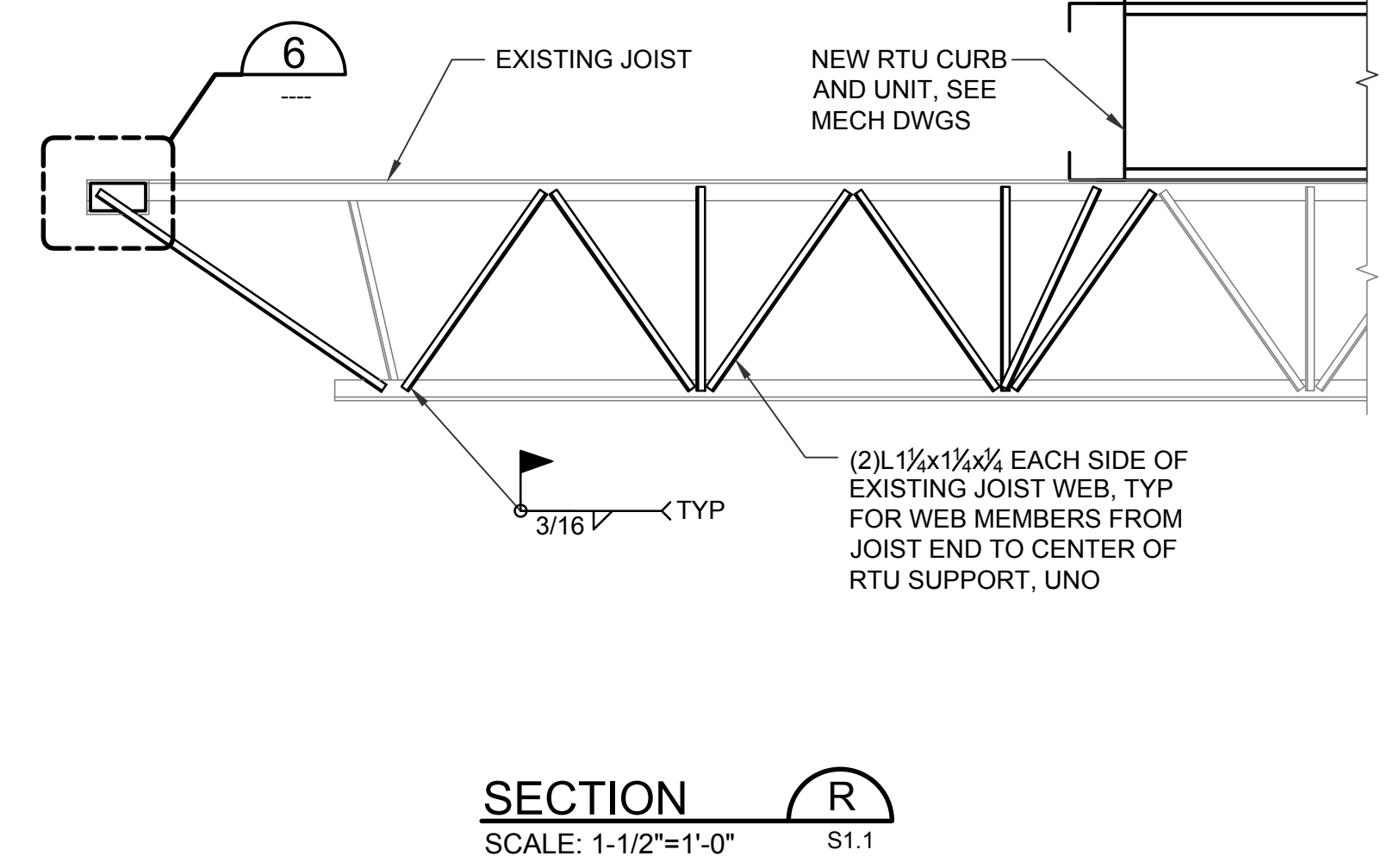


**DETAIL 5**  
SCALE: 1-1/2"=1'-0"  
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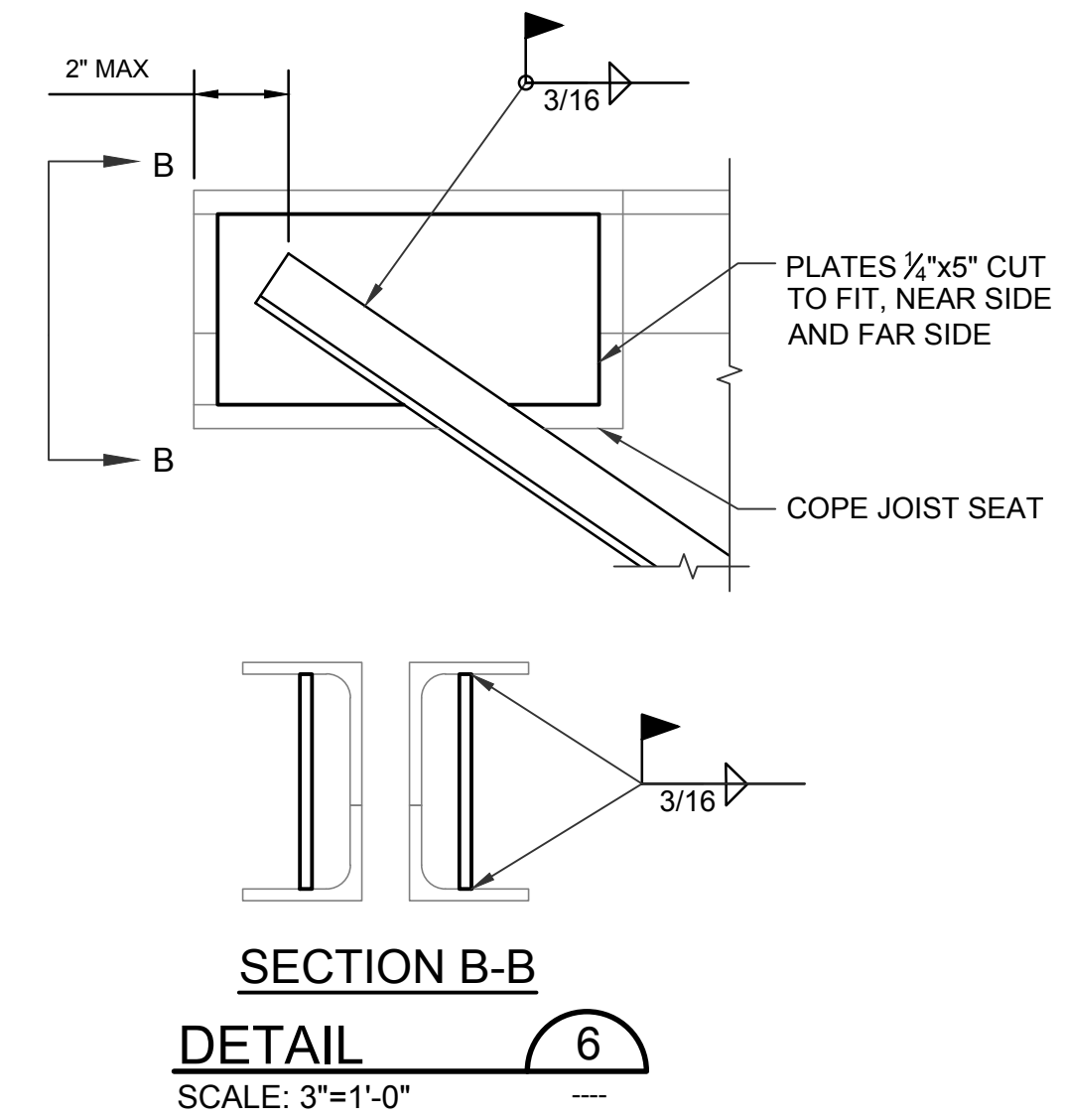


**SECTION A-A**

**SECTION Q**  
SCALE: 1-1/2"=1'-0"  
S2.1



**SECTION R**  
SCALE: 1-1/2"=1'-0"  
S1.1



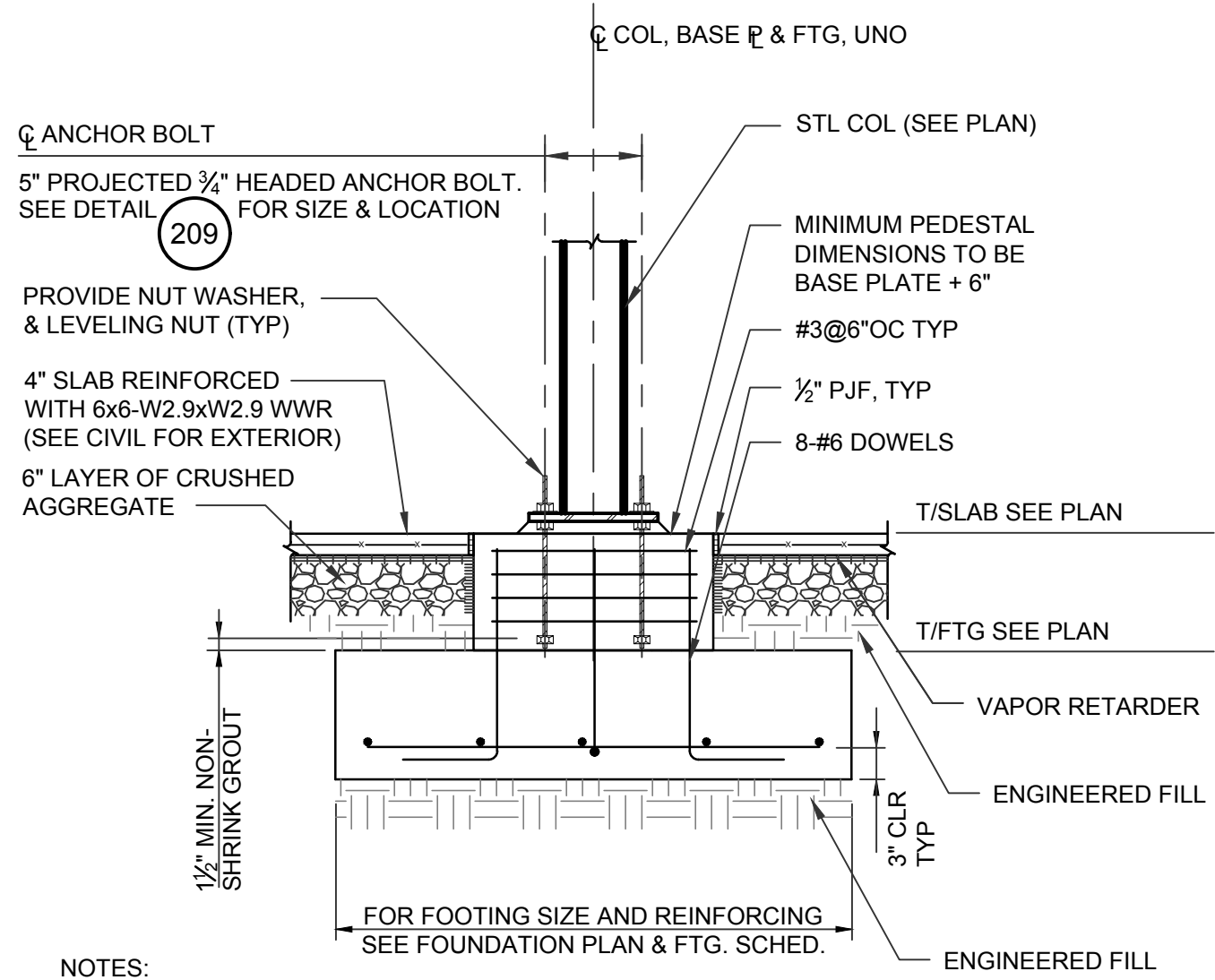
**SECTION B-B**  
**DETAIL 6**  
SCALE: 3"=1'-0"  
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ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM



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INITIAL ISSUE 12-20-19  
1. ADD 04 01-09-20

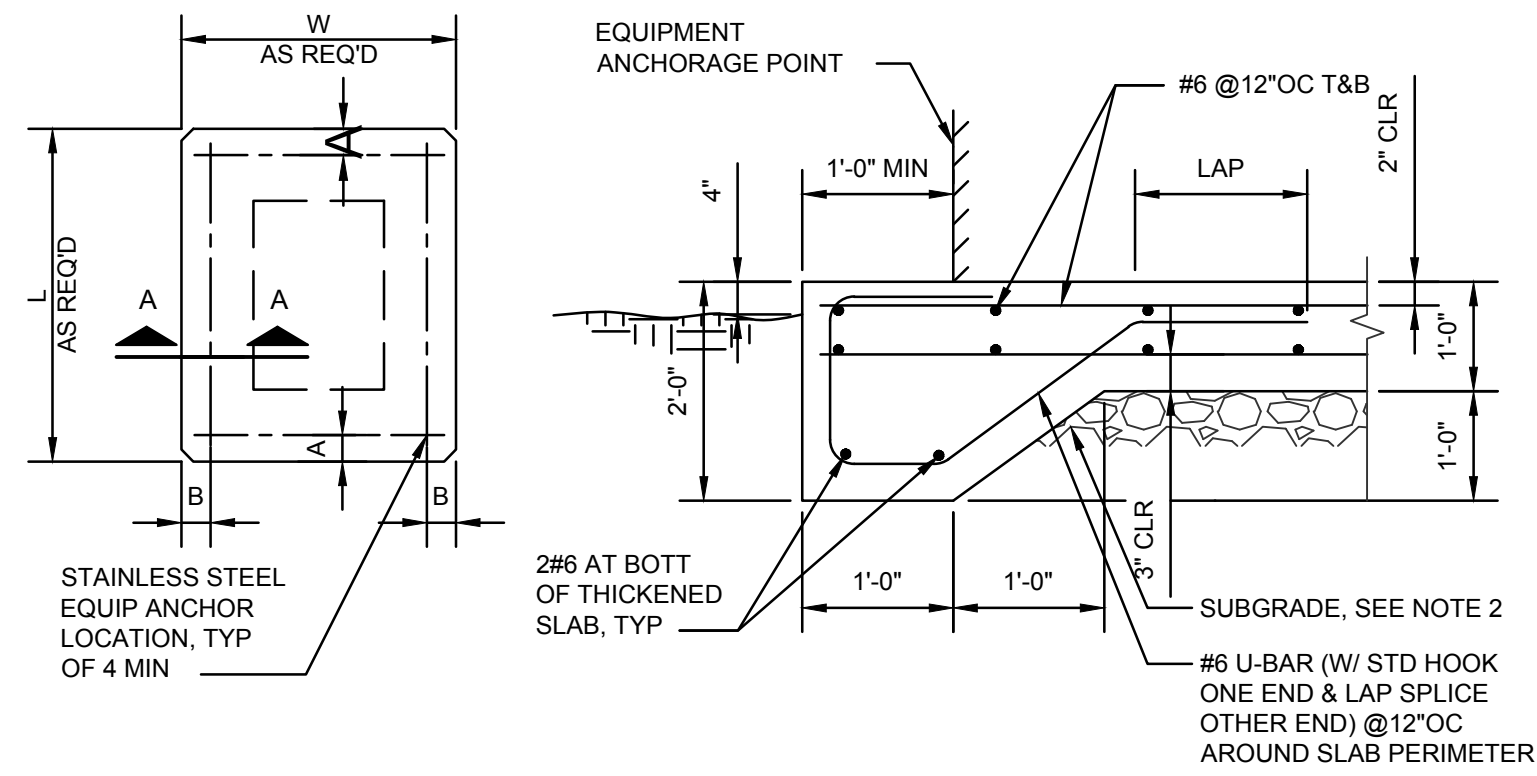
JOB NO. 18-072 | D'WN APWD | CK'D DOBD



- NOTES:
- FOR BASE PLATE AND ANCHOR BOLTS, SEE (209).
  - SEE PLAN AND SCHEDULE FOR SIZE AND REINFORCING.

**TYPICAL STEEL COLUMN FOOTING**  
NTS

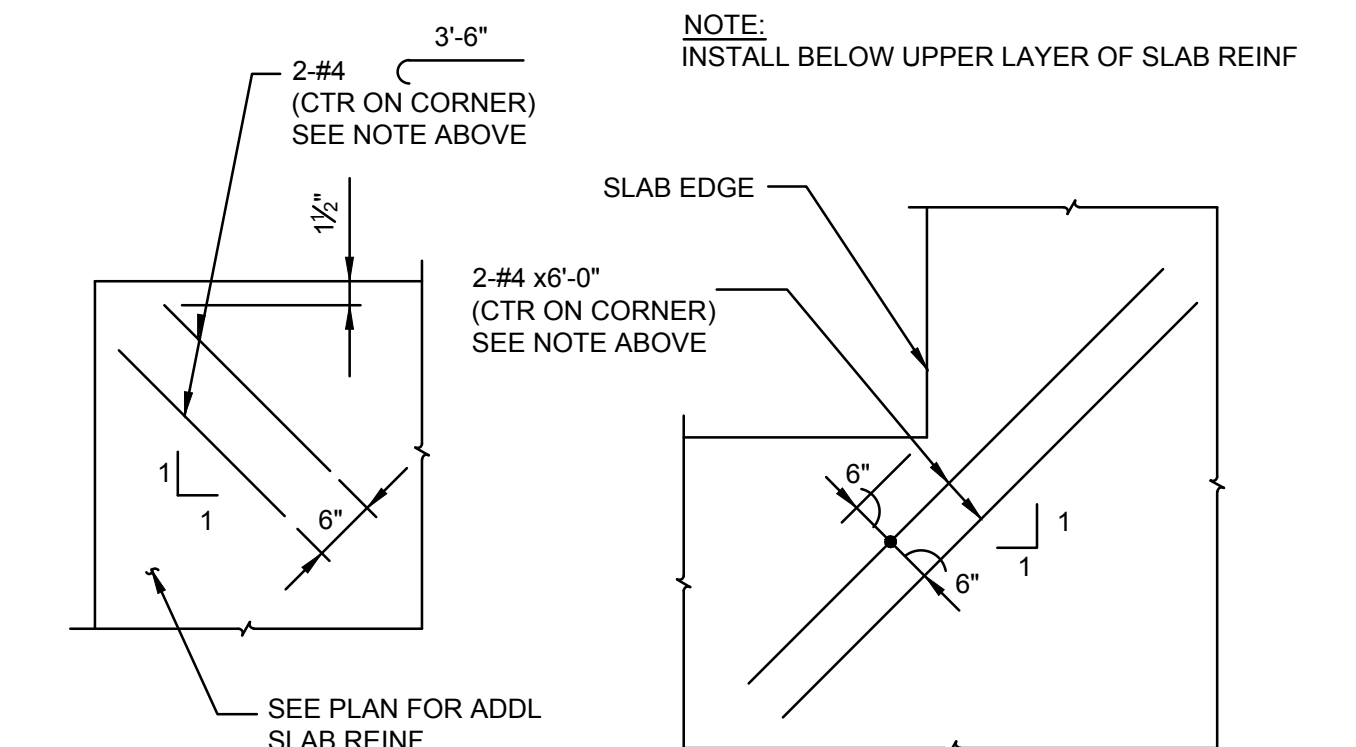
(201)



- NOTES:
- DIMENSIONS 'A' AND 'B' SHALL BE AS REQUIRED BY THE EQUIPMENT, BUT NOT LESS THAN 12".
  - SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH GEOTECH REPORT.

**TYPICAL EXTERIOR EQUIPMENT BASE**  
NTS

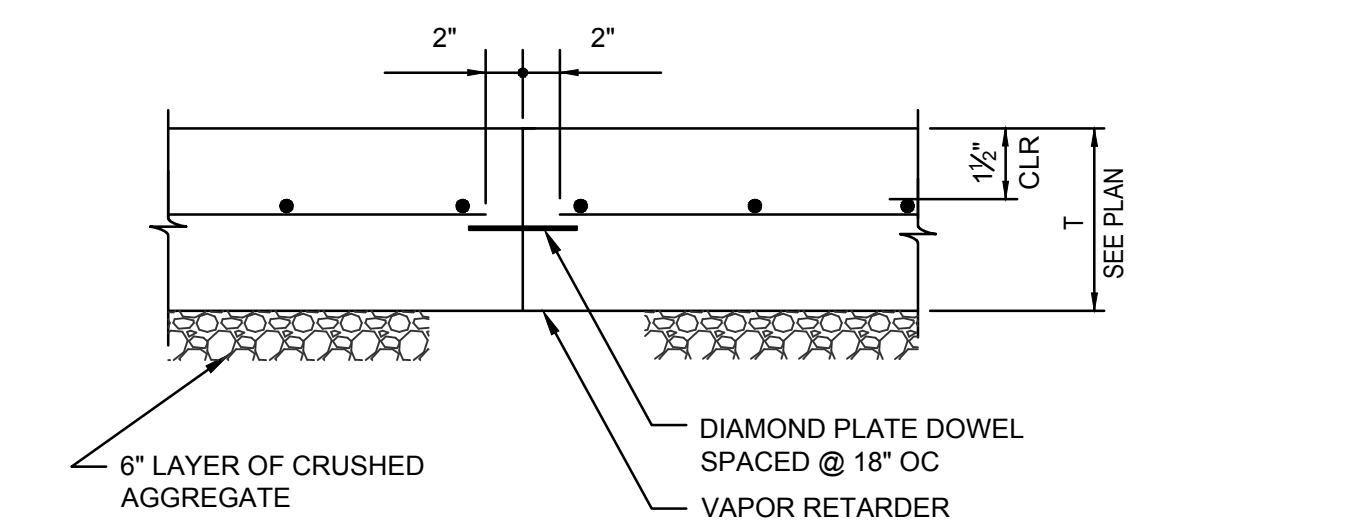
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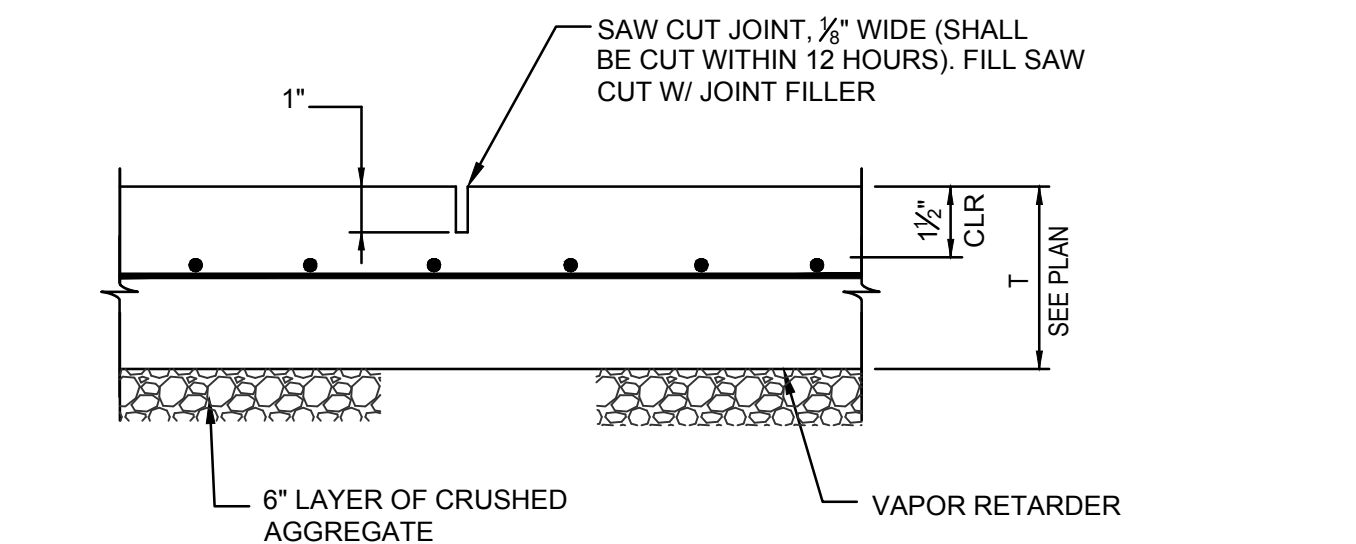
NOTE: INSTALL BELOW UPPER LAYER OF SLAB REINF

**TYPICAL SLAB CORNER REINFORCEMENT**  
NTS

(202)



**TYPICAL SLAB HORIZONTAL CONSTRUCTION JOINT**

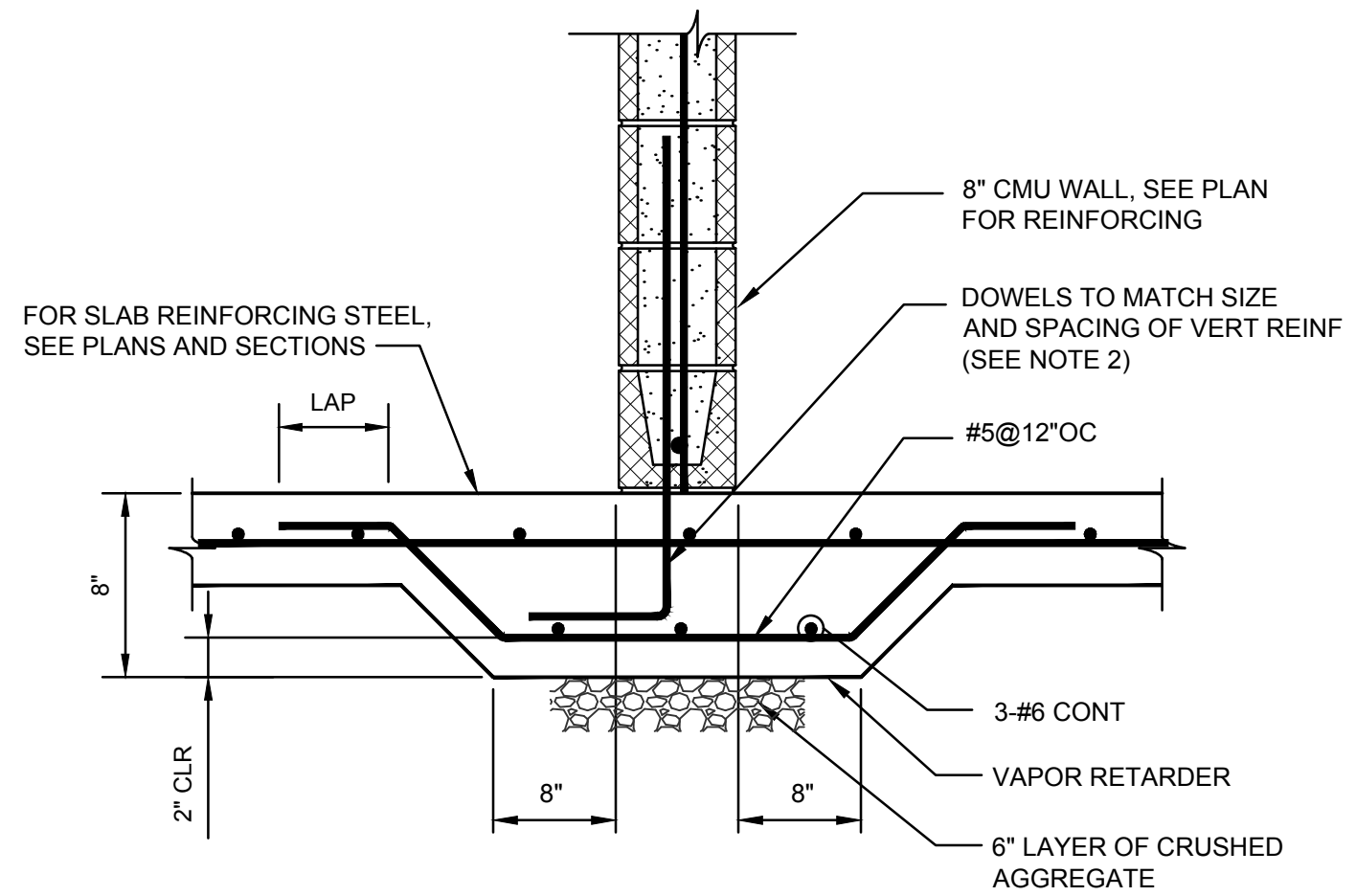


**TYPICAL CONTRACTION/CONTROL JOINT**

- NOTES:
- FOR SLAB THICKNESS AND REINFORCING, SEE PLANS.
  - CONSTRUCTION JOINTS OCCUR ONLY BETWEEN SEPARATE CONCRETE POURS.

**CONSTRUCTION AND CONTRACTION JOINT DETAIL**  
NTS

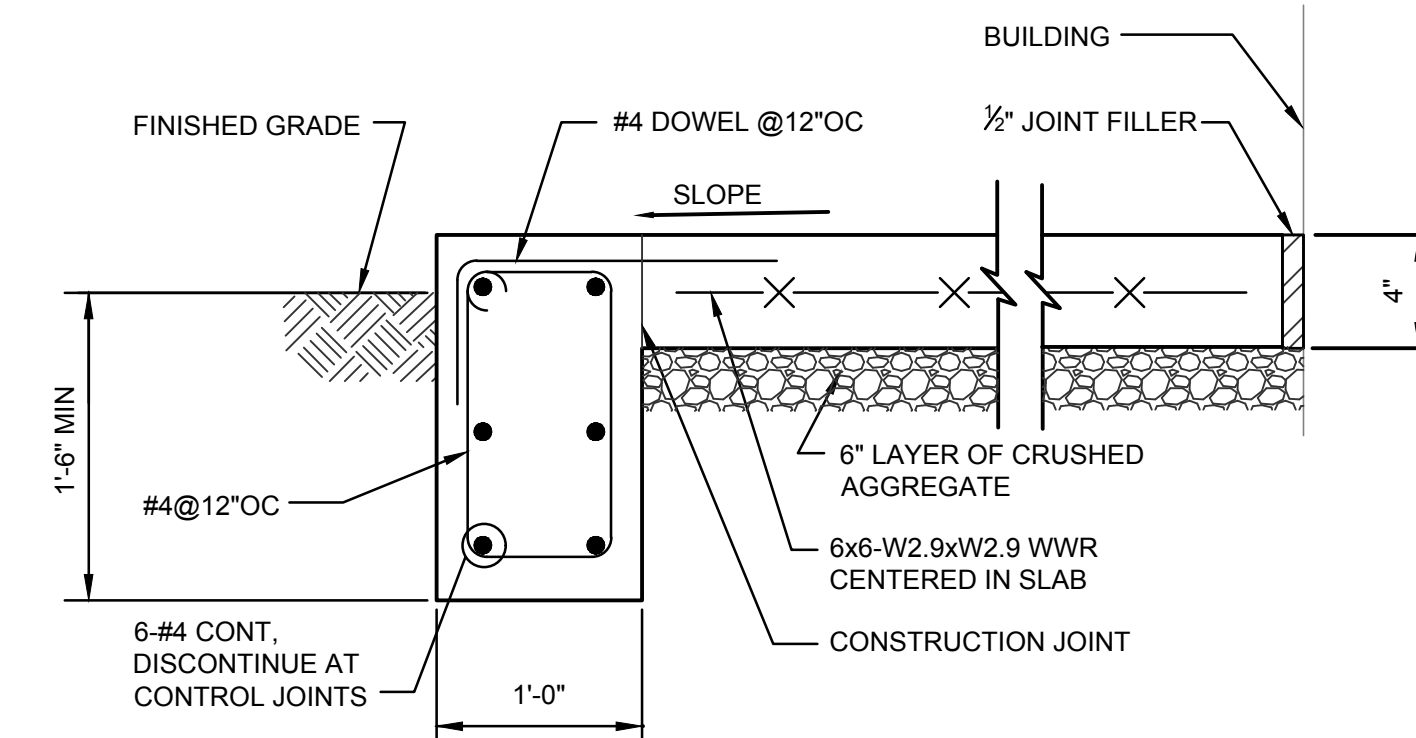
(203)



- NOTES:
- PROVIDE THICKENED SLAB UNDER MASONRY WALLS WHERE INDICATED ON PLANS.
  - CMU WALL REINFORCING MAY BE CAST INTO THE SLAB WITH A STANDARD HOOK AT THE BOTTOM OF THE VERTICAL DOWEL OR DRILLED AND ADHESIVELY ANCHORED.

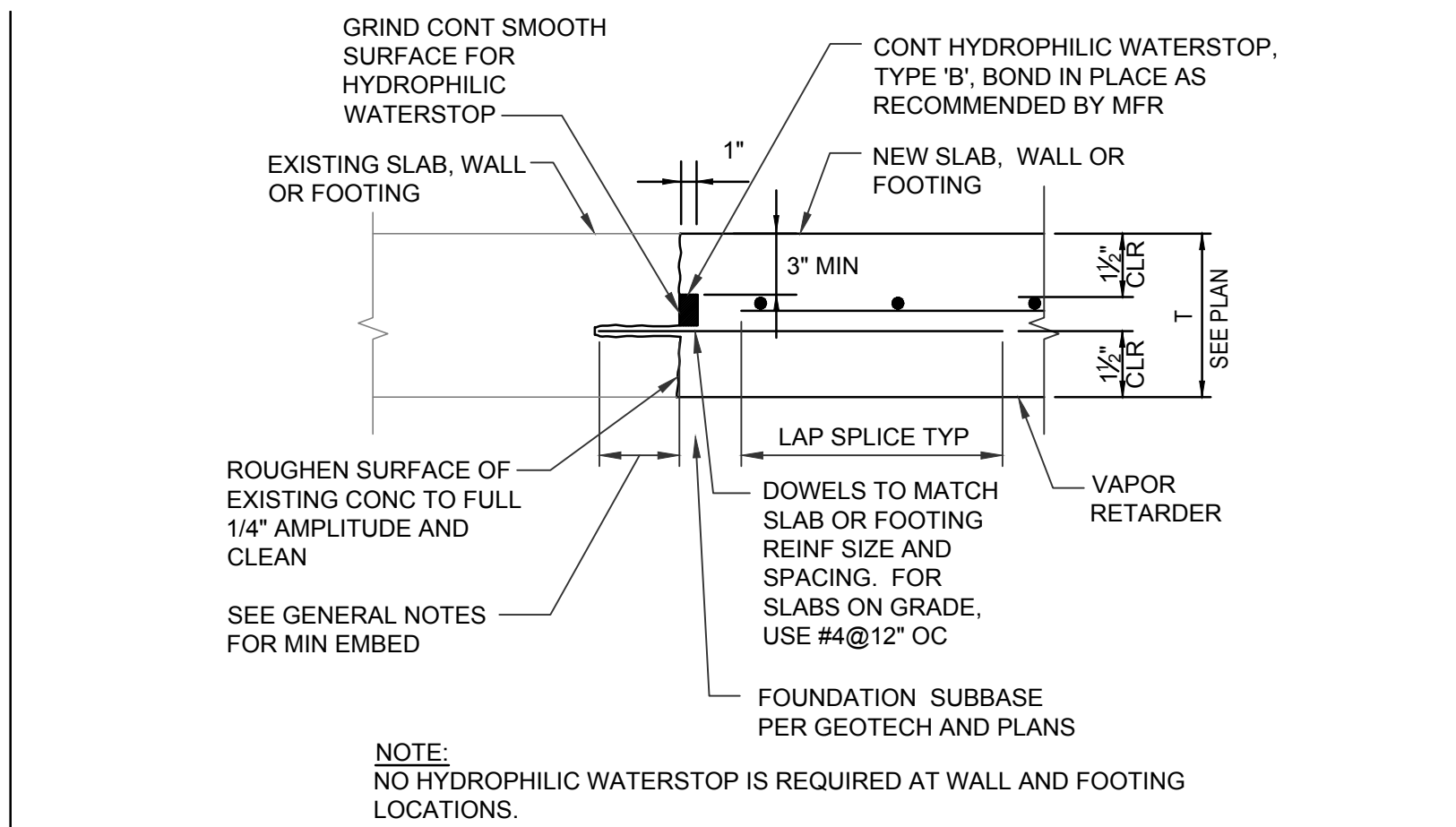
**TYPICAL INTERIOR THICKENED SLAB**  
NTS

(205)



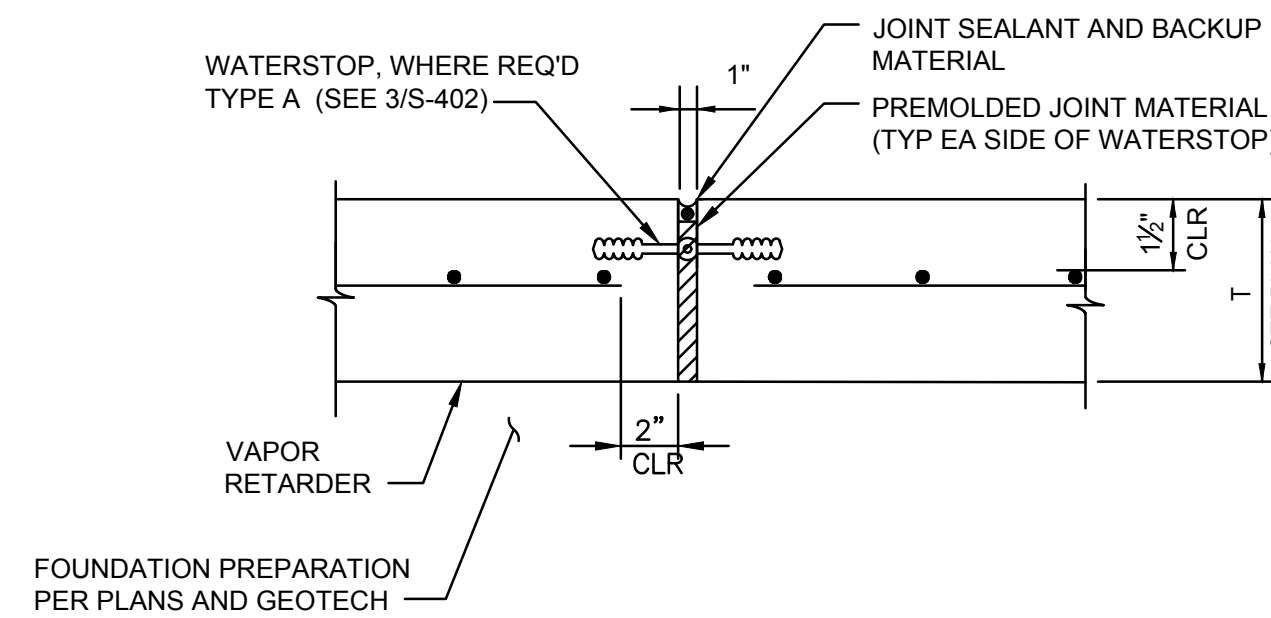
**TYPICAL STOOP SLAB**  
NTS

(206)

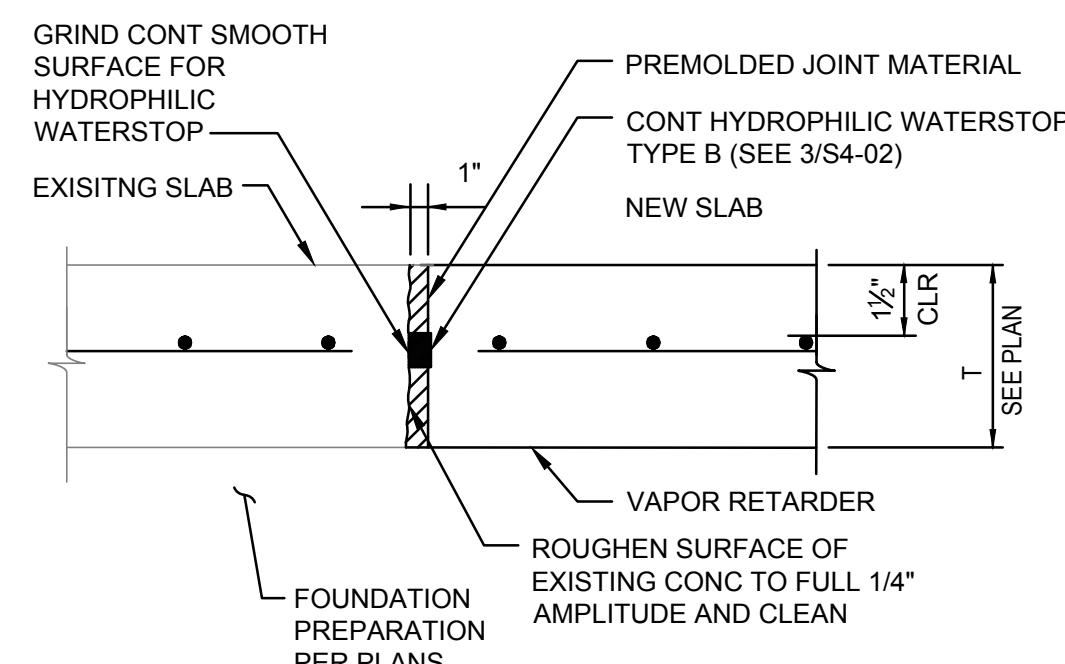


**NEW TO EXISTING CONCRETE**  
NTS

(207)



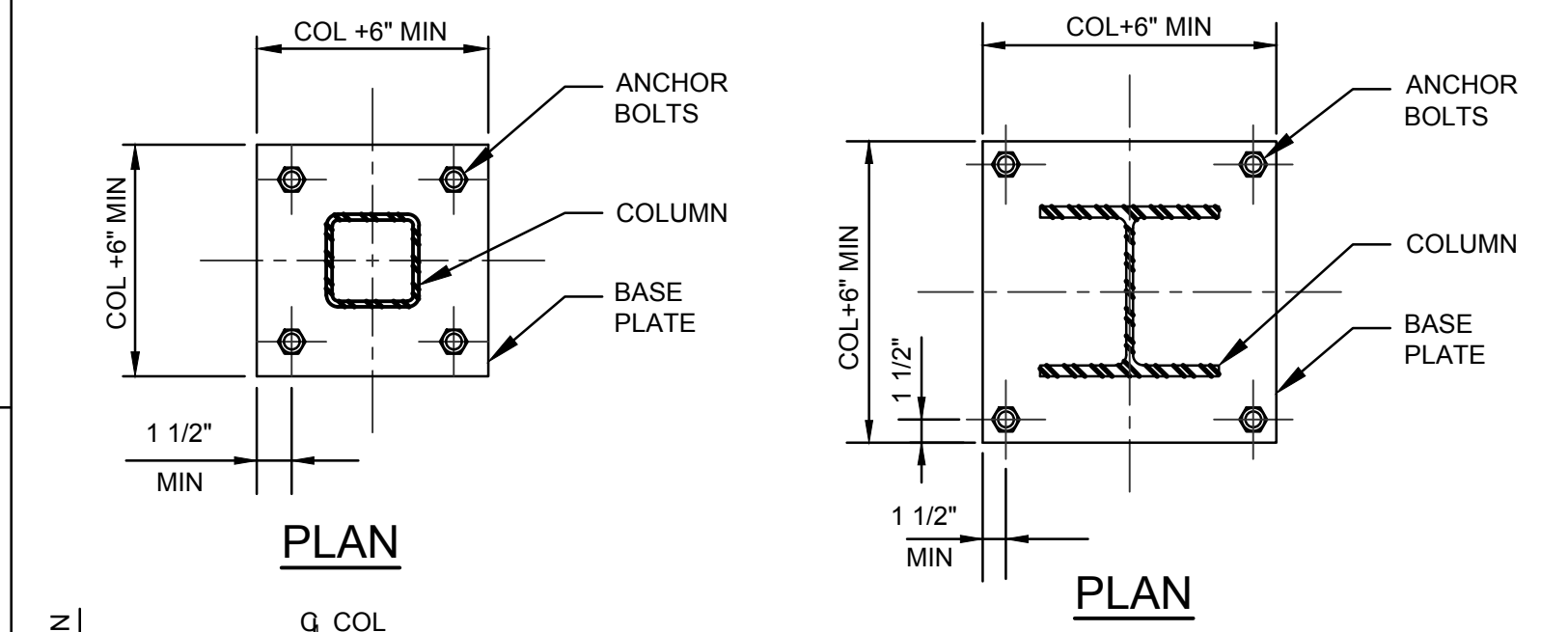
**TYPICAL SLAB EXPANSION JOINT NEW CONCRETE**



**TYPICAL SLAB EXPANSION JOINT NEW CONCRETE TO EXISTING**

**EXPANSION JOINT DETAIL**  
NTS

(208)



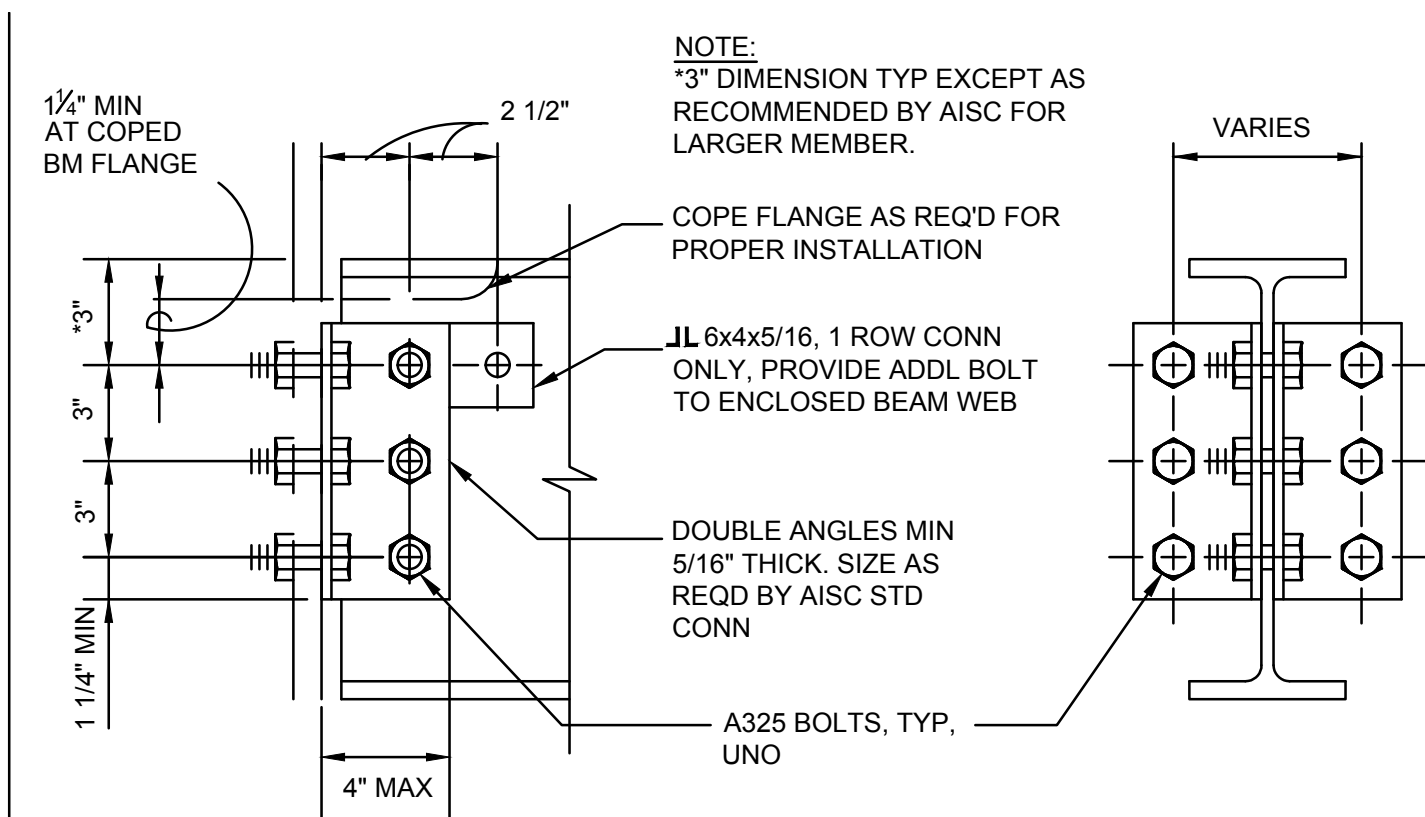
LOCATION	BASE PLATE THICKNESS	ANCHOR BOLT DIA.	EMBEDMENT
CORRIDOR	3/4"	3/4"	8"
NEW GYM	1"	1"	12"
TYP UNO	3/4"	3/4"	8"

NOTE: COMPLETE COLUMN SEPARATION FROM CONCRETE SHALL BE MADE USING 1/2" THICK FLEXIBLE CLOSED CELL FOAM WRAP WRAPPED AROUND COLUMN. USE FOAM BLOCKING TO FILL VOID BETWEEN FLANGES AS REQUIRED.

**ELEVATION**

**TYPICAL COLUMN BASE**  
NTS

(209)

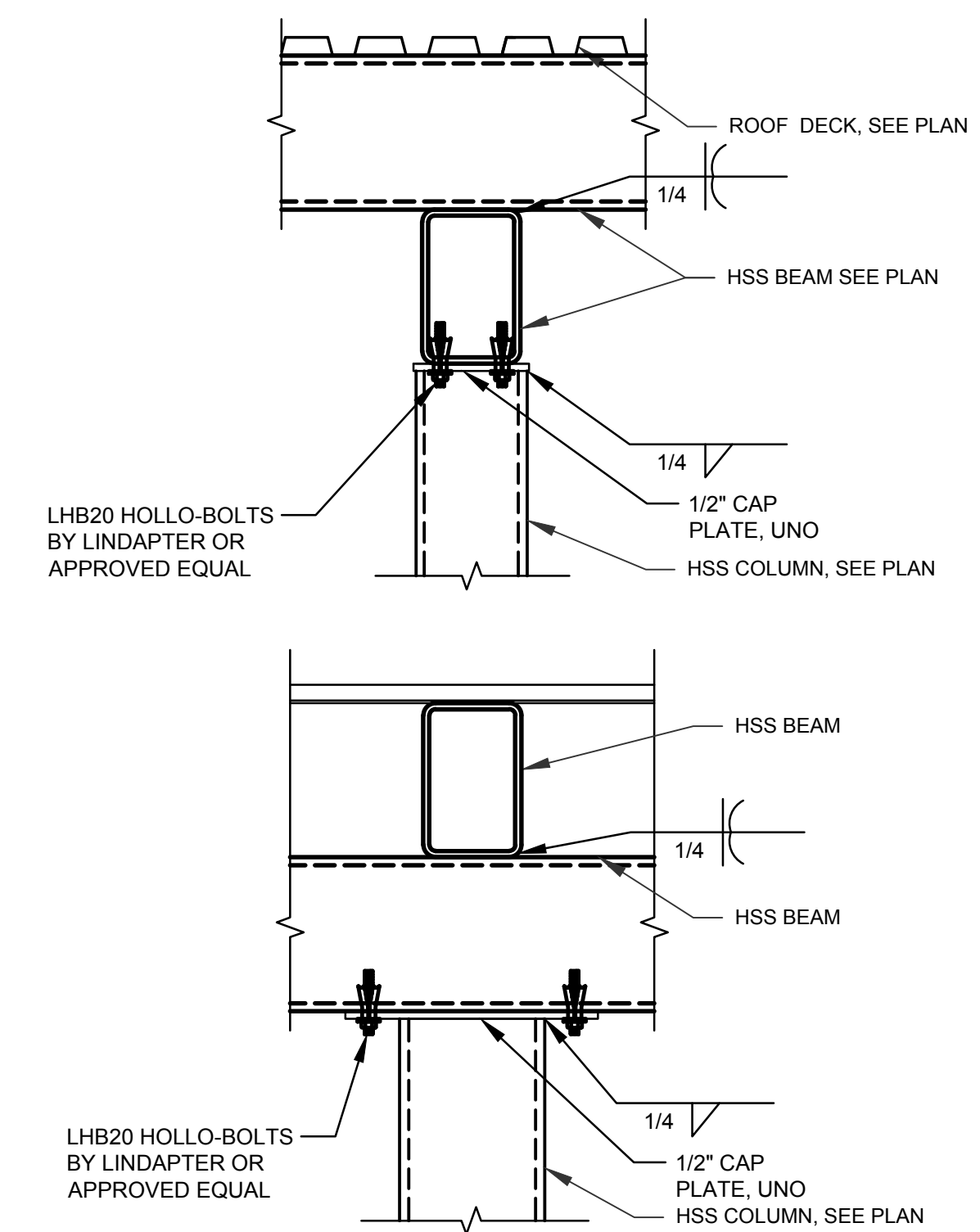


NOMINAL BEAM DEPTH, INCHES	ROWS OF BOLTS	BOLT DIA, INCHES	DOUBLE ANGLE, LENGTH, INCHES	COMMENTS
36	10	7/8"	2'-6"	ANGLE THK=3/8"
33	9	7/8"	2'-3"	ANGLE THK=3/8"
30	8	7/8"	2'-0"	ANGLE THK=3/8"
27	7	3/4"	1'-8 1/2"	ANGLE THK=5/16" MIN
24	6	3/4"	1'-5 1/2"	ANGLE THK=5/16" MIN
21	5	3/4"	1'-2 1/2"	ANGLE THK=5/16" MIN
16-18	4	3/4"	11 1/2"	ANGLE THK=5/16" MIN
12-15	3	3/4"	8 1/2"	ANGLE THK=5/16" MIN
8-10	2	3/4"	5 1/2"	ANGLE THK=5/16" MIN
6	1	3/4"	3"	JL 6"x4"x5/16"
4	1	3/4"	2 1/2"	JL 6"x4"x5/16"

- NOTES:
- ALL FRAMING CONNECTIONS SHALL CONFORM TO SCHEDULE UNLESS DETAILED.
  - UNLESS OTHERWISE NOTED ON FRAMING PLANS, ADD 1-1/2" TO ANGLE LENGTH FOR STAGGERED BOLT CONNECTIONS.
  - UNO, ALL BOLTS SHALL BE BEARING TYPE CONNECTIONS WITH NO THREADS IN THE SHEAR PLANE. BOLTS SHALL BE SNUG TIGHT.

**TYPICAL FRAMING CONNECTION**  
NTS

(210)

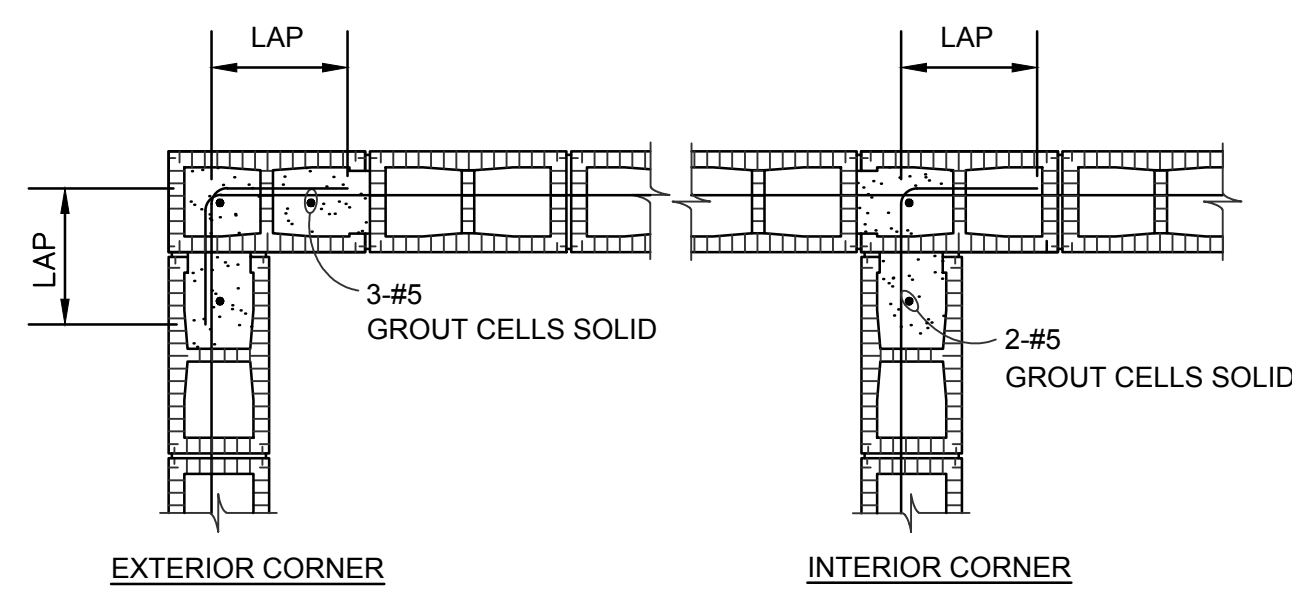
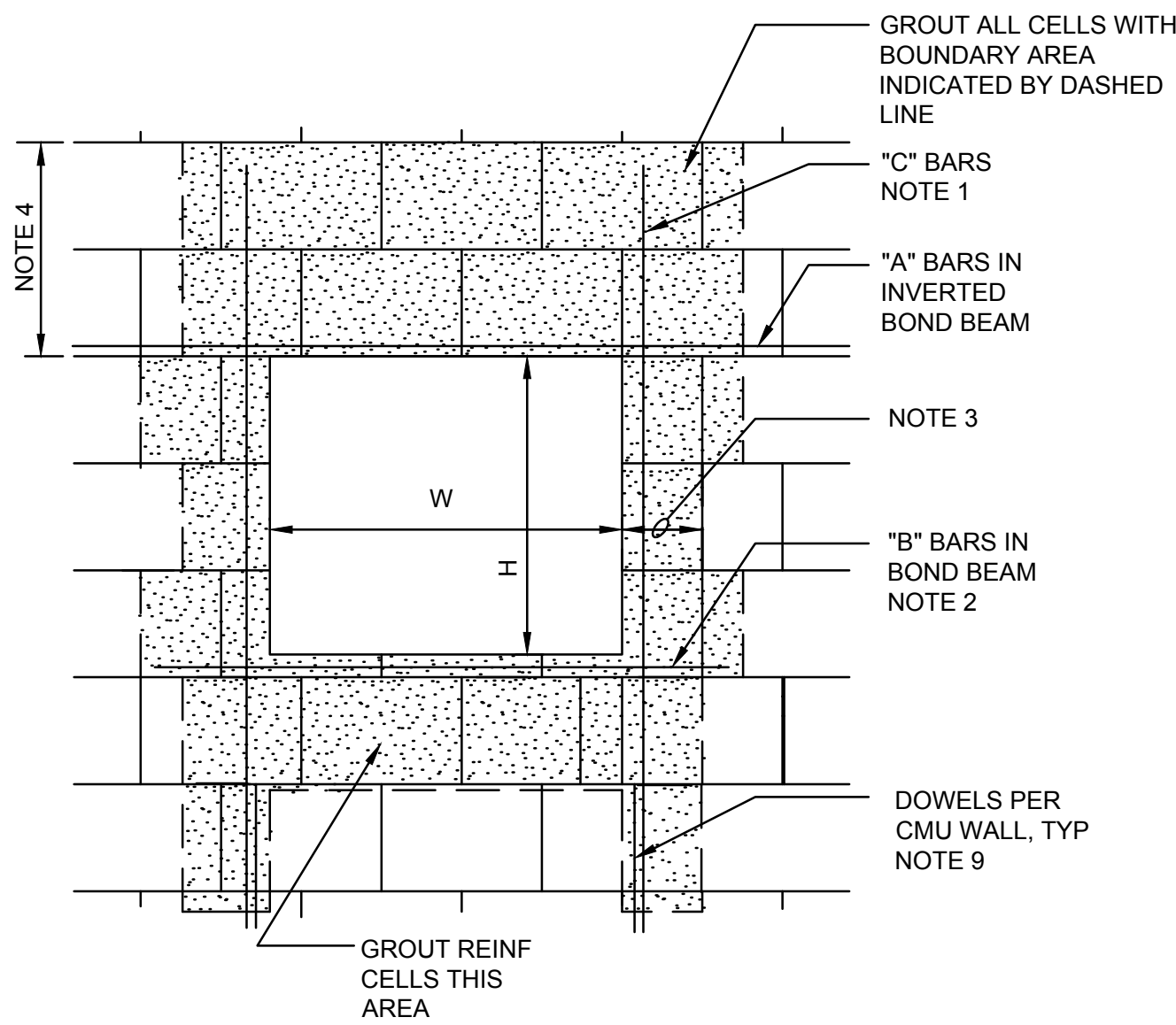


NOTE: DETAIL SIMILAR AT SLOPING BEAMS, SHIM AS REQUIRED.

**TYPICAL CONTINUOUS BEAM TO COLUMN CAP**  
NTS

(211)



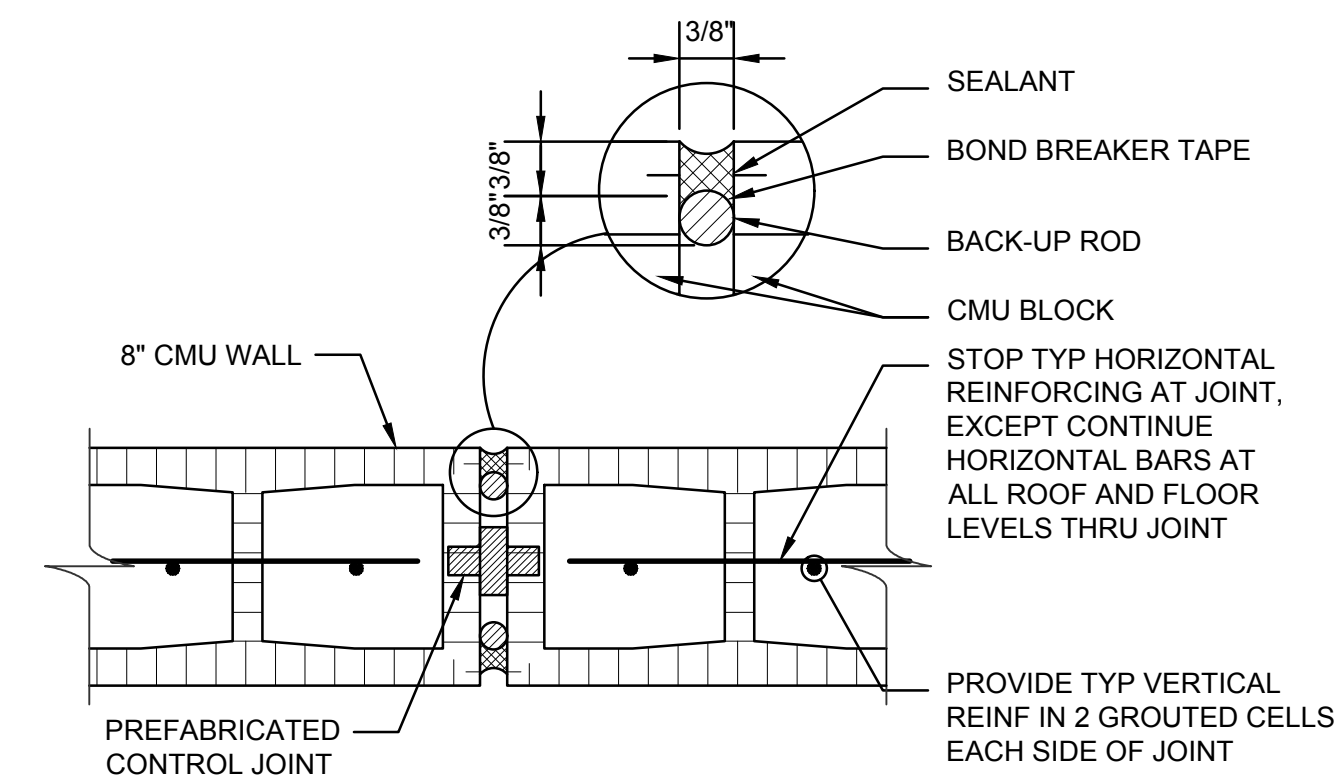


NOTE: PROVIDE MASONRY WALL REINFORCING TENSION LAP SPLICE FOR ALL BOND BEAM REINFORCING.

**SINGLE MAT**

**TYPICAL CMU WALL CORNERS**  
NTS

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NOTE: CMU LINTEL HORIZONTAL REINFORCING AND HORIZONTAL BOND BEAM REINFORCING DIRECTLY ABOVE STEEL LINTELS SHALL EXTEND BEYOND THE EDGES OF OPENINGS AS REQUIRED AND SHALL BE DEBONDED BEYOND THE CONTROL JOINT.

MASONRY WALL REINFORCING LAP SPLICE TABLE	
BAR SIZE	LAP LENGTH
#3	18"
#4	24"
#5	30"
#6	36"
#7	42"
#8	48"

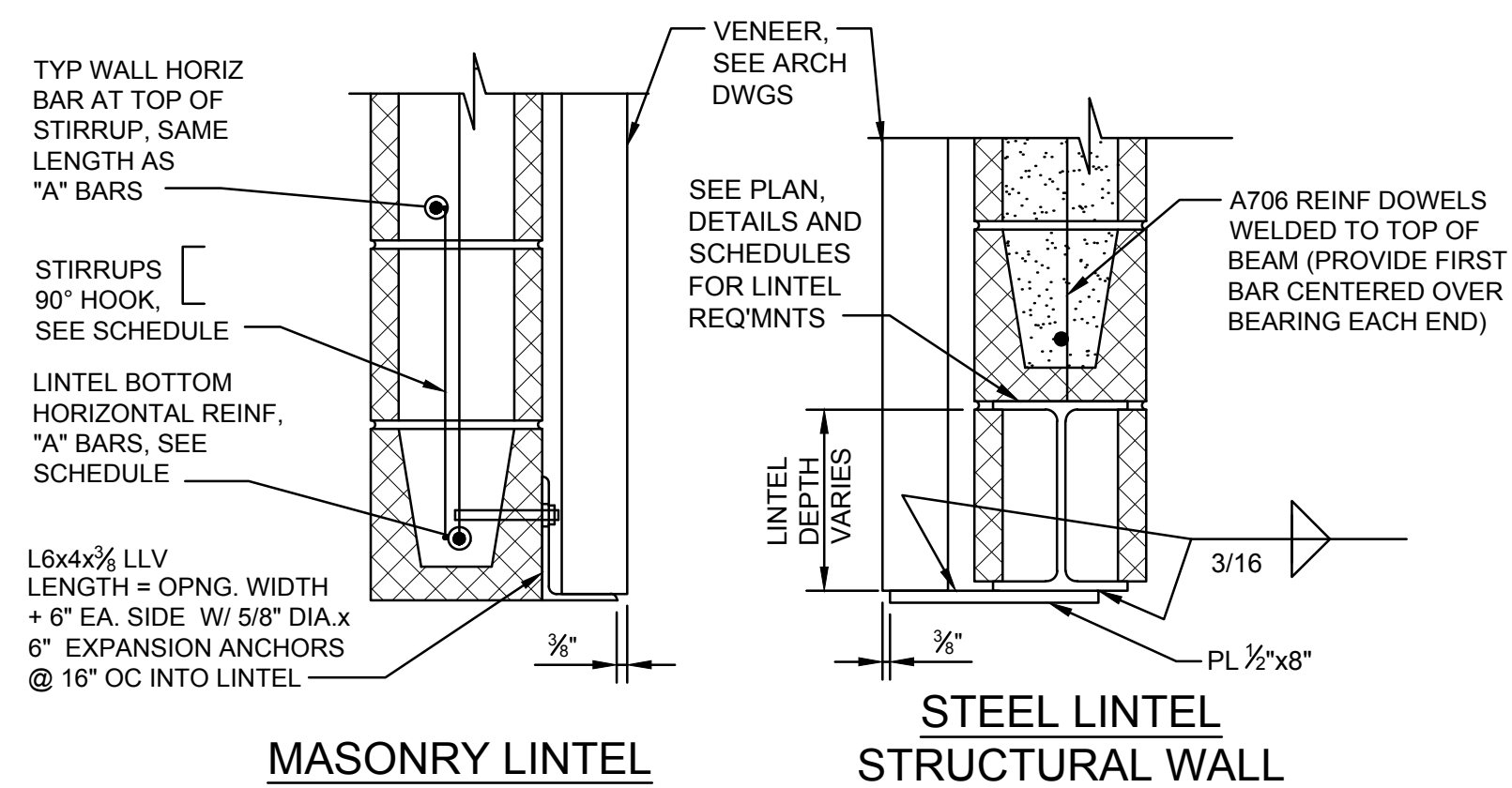
**TYPICAL CMU CONTROL JOINT**  
NTS

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CMU OPENING REINFORCEMENT SCHEDULE										
W	LINTEL DEPTH	STIRRUP SIZE/SPA	"A" BARS		"B" BARS		"C" BARS		# CELLS TO GROUT NOTE 3	
			8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU
<2'-8"	8"	-	1-#5	2-#5	1-#5	2-#5	1-#5	2-#4	ONE	ONE
>2'-8" <4'-0"	16"	-	1-#6	2-#5	1-#6	2-#5	1-#5	2-#4	ONE	ONE
>4'-0" <6'-0"	24"	#3@8"	1-#7	2-#6	1-#7	2-#6	2-#5	4-#5	TWO	TWO
>6'-0" <10'-0"	8"		W8x24							
>10'-0" <18'-0"	16"		W16x36							

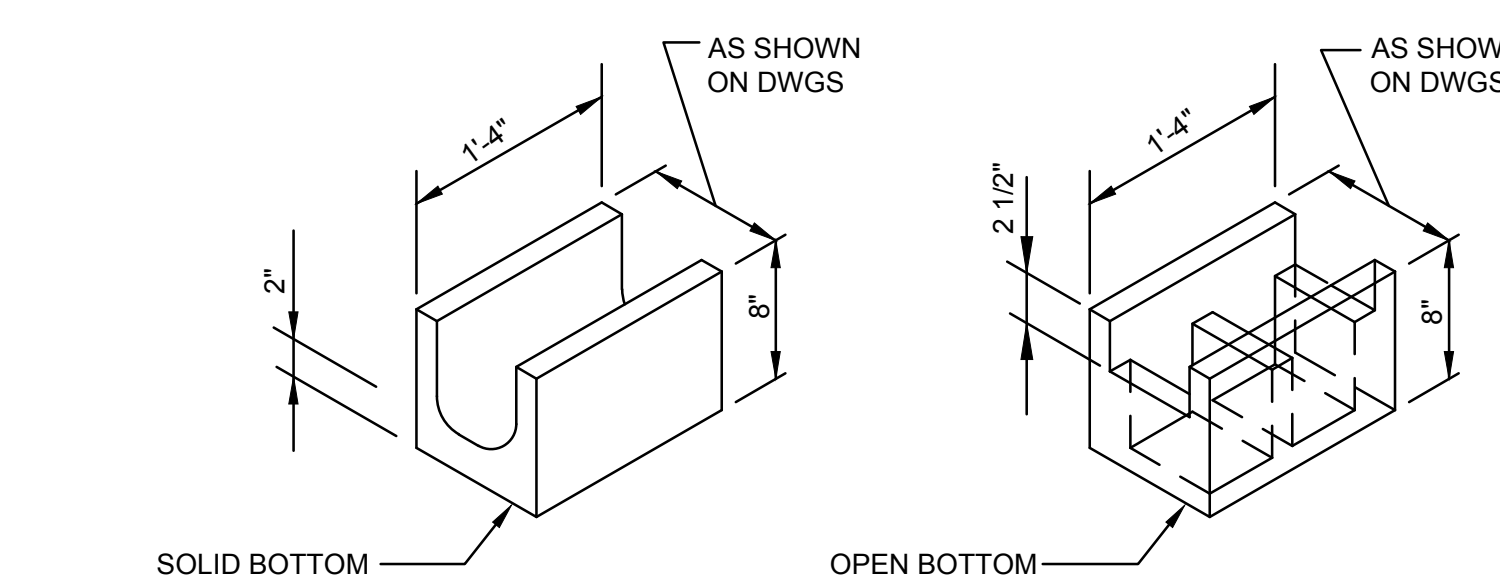
**NOTES:**

1. EXTEND "C" BARS 2'-0" MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'-0". "C" BARS SHALL EXTEND FULL HEIGHT. "C" BARS SHALL BE ONE CENTERED PER CELL IN 8" WALLS AND TWO (1 EF) PER CELL IN 12" WALLS.
2. "A" AND "B" BARS SHALL EXTEND 2'-0" EACH SIDE OF THE OPENING. GROUT TO END OF BARS.
3. SEE SCHEDULE FOR NUMBER OF CELLS TO GROUT ON EACH SIDE OF OPENING.
4. GROUT ALL CELLS OVER OPENING TO W/2 OR 2'-0" WHICH EVER IS GREATER UNLESS TOP OF WALL IS REACHED FIRST.
5. IF OPENING DOES NOT FALL EXACTLY ON A CELL, GROUT PARTIAL BLOCK IN ADDITION TO CELLS REQUIRED ABOVE.
6. JOINT REINFORCING SHALL BE @ 16" OC. SEE SPECIFICATION FOR TYPE.
7. MINIMUM LINTEL BEARING 8" EACH SIDE OF OPENING.
8. NOTCH BEAM FLANGES AS NEEDED TO PASS VERTICAL REINFORCING BARS AND GROUT BEAM BEARING AREA SOLID.
9. DOWELS INTO EXISTING CONCRETE SHALL BE DRILLED AND ANCHORED INTO FOUNDATION.



**MASONRY LINTEL**

**STEEL LINTEL STRUCTURAL WALL**

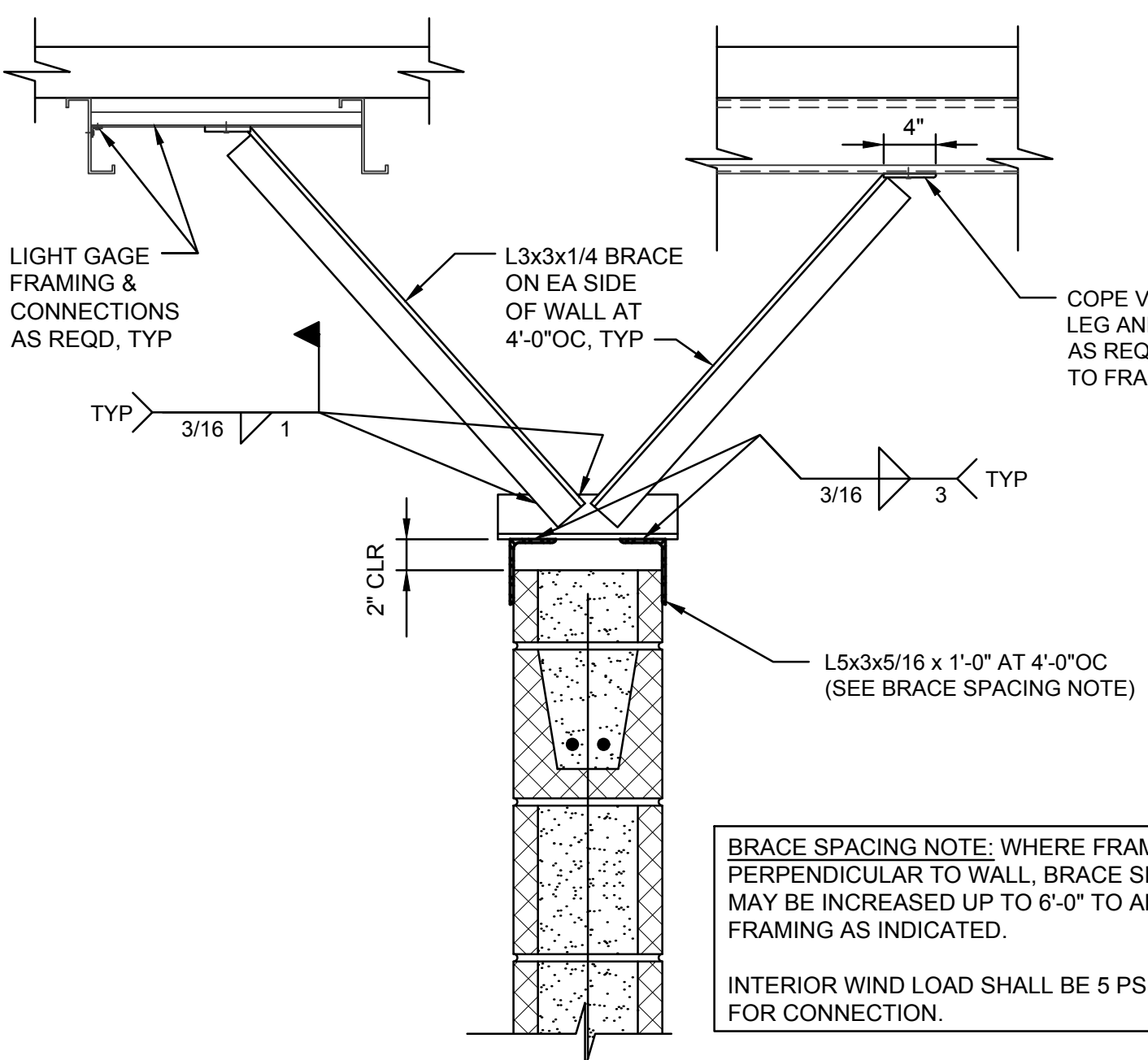


**TYPICAL CMU OPENING REINFORCING**  
NTS **NEW CMU WALL**

212

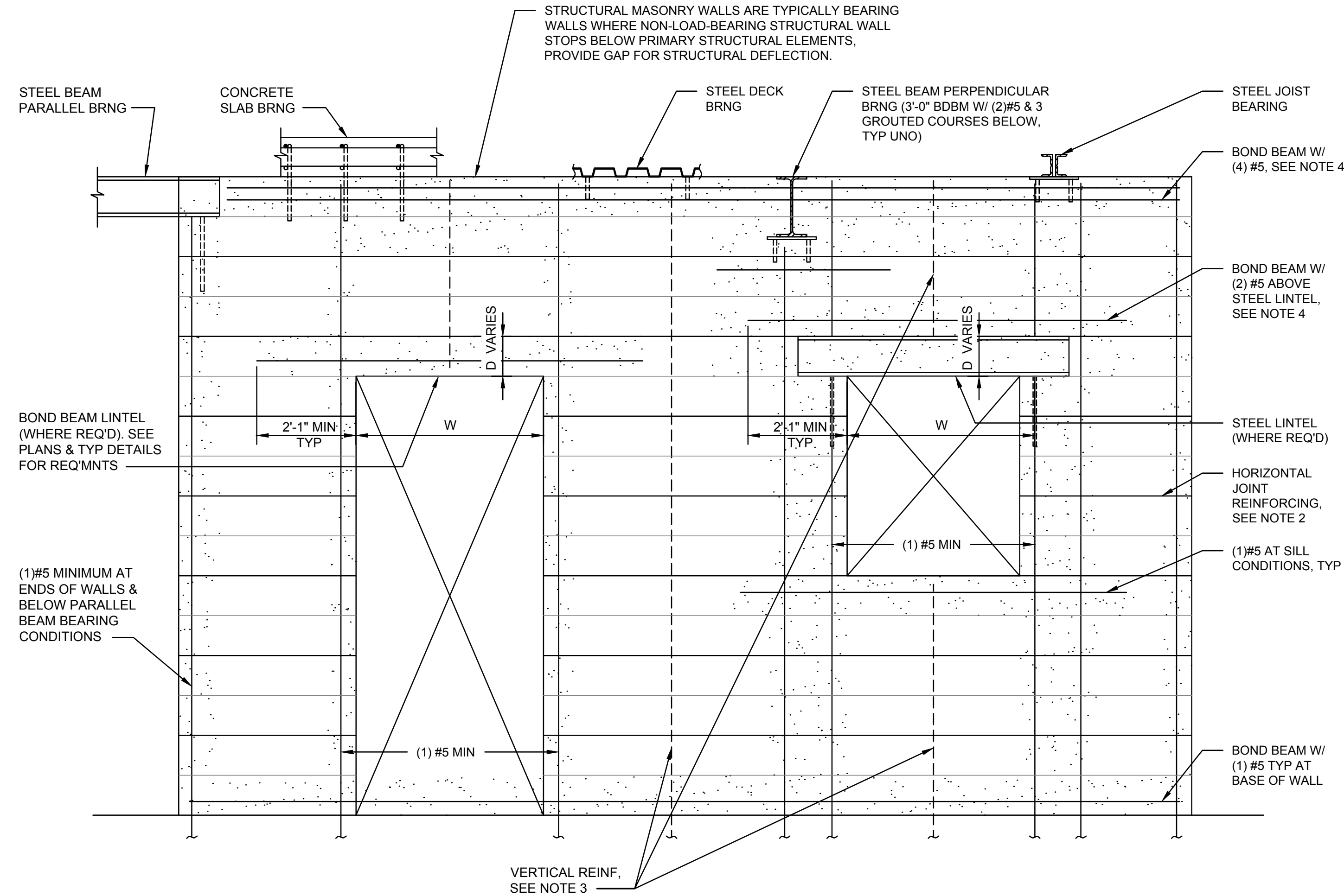
**WALL PARALLEL WITH FRAMING ABOVE**

**WALL PERPENDICULAR WITH FRAMING ABOVE**



**TYPICAL PARTIAL HEIGHT INTERIOR PARTITION WALL TOP SUPPORT**  
NTS

215

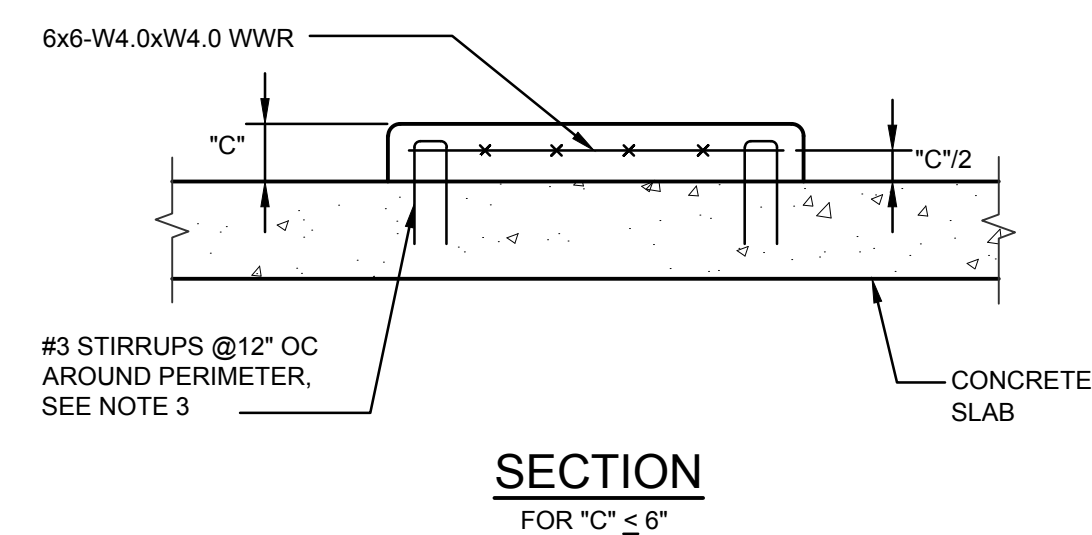


**NOTES:**

1. DETAIL APPLIES TO STRUCTURAL CMU WALLS WHICH ARE EXTERIOR (SUBJECT TO WIND PRESSURE), LOAD BEARING, OR PART OF THE LATERAL RESISTING SYSTEM. SEE PLANS FOR SPECIAL CONDITIONS. VARIOUS TYPICAL BEARING CONDITIONS ARE SHOWN AT THE TOP OF WALL. SEE ALL PROJECT TYPICAL AND SPECIFIC DETAILS FOR CONNECTION REQUIREMENTS OF FRAMING AND DECK ELEMENTS TO MASONRY WALLS.
2. HORIZONTAL JOINT REINFORCING: PROVIDE 3/16" DIA GALVANIZED LADDER-TYPE HORIZONTAL JOINT REINFORCEMENT AT 16" OC, UNO. LAP SPLICE HORIZONTAL JOINT REINFORCING 75 DIAMETERS OF SIDE RODS OR 14 INCHES MINIMUM, UNO. PROVIDE AT TOP & BOTTOM OF ALL OPENINGS AND EXTEND AT LEAST 24" BEYOND OPENING, TYPICAL.
3. VERTICAL REINFORCING: PROVIDE VERTICAL REINFORCING AS NOTED ON PLAN AND AS INDICATED IN TYPICAL STRUCTURAL CMU WALL DETAIL. AND NOT LESS THAN #5 @ 32" OC. MINIMUM REINFORCING NOTED SHALL BE INCREASED WHERE REQUIRED BY TYPICAL SHEAR WALL REINFORCING DETAILS OR OTHER DETAIL REQUIREMENTS. LAP SPLICE ALL REINFORCING PER MASONRY WALL REINFORCING LAP SPLICE TABLE. VERTICAL REINFORCING DOWELS SHALL BE CAST INTO THE FOUNDATION AND DETAILED TO LAP SPLICE WITH THE FOUNDATION VERTICAL REINFORCING OR DEVELOPED WITH A STANDARD HOOK, UNO.
4. BOND BEAMS: PROVIDE HORIZONTAL BOND BEAMS WITH 4-#5 CONTINUOUS AT TOPS OF WALLS AND AT ELEVATIONS OF FLOOR & ROOF FRAMING BEARING AND DECK CONNECTIONS. PROVIDE HORIZONTAL BOND BEAMS WITH 2-#5 CONTINUOUS AT ELEVATIONS OF FLOOR AND ROOF DIAPHRAGM CONNECTIONS, MISC STRUCTURAL ATTACHMENT, MISC STEEL ANCHORAGE, OR OTHER COMPONENT OR EQUIPMENT CONNECTIONS, UNO. COORDINATE AS REQUIRED WITH OTHER STRUCTURAL DETAILS AND ARCHITECTURAL & MEP DRAWINGS. BOND BEAMS SHALL BE CONTINUOUS THROUGH CONTROL JOINTS AT TOPS OF WALLS AND AT FLOOR AND ROOF BEARING AND DECK CONNECTION COURSES.

**TYPICAL STRUCTURAL CMU WALL**  
NTS

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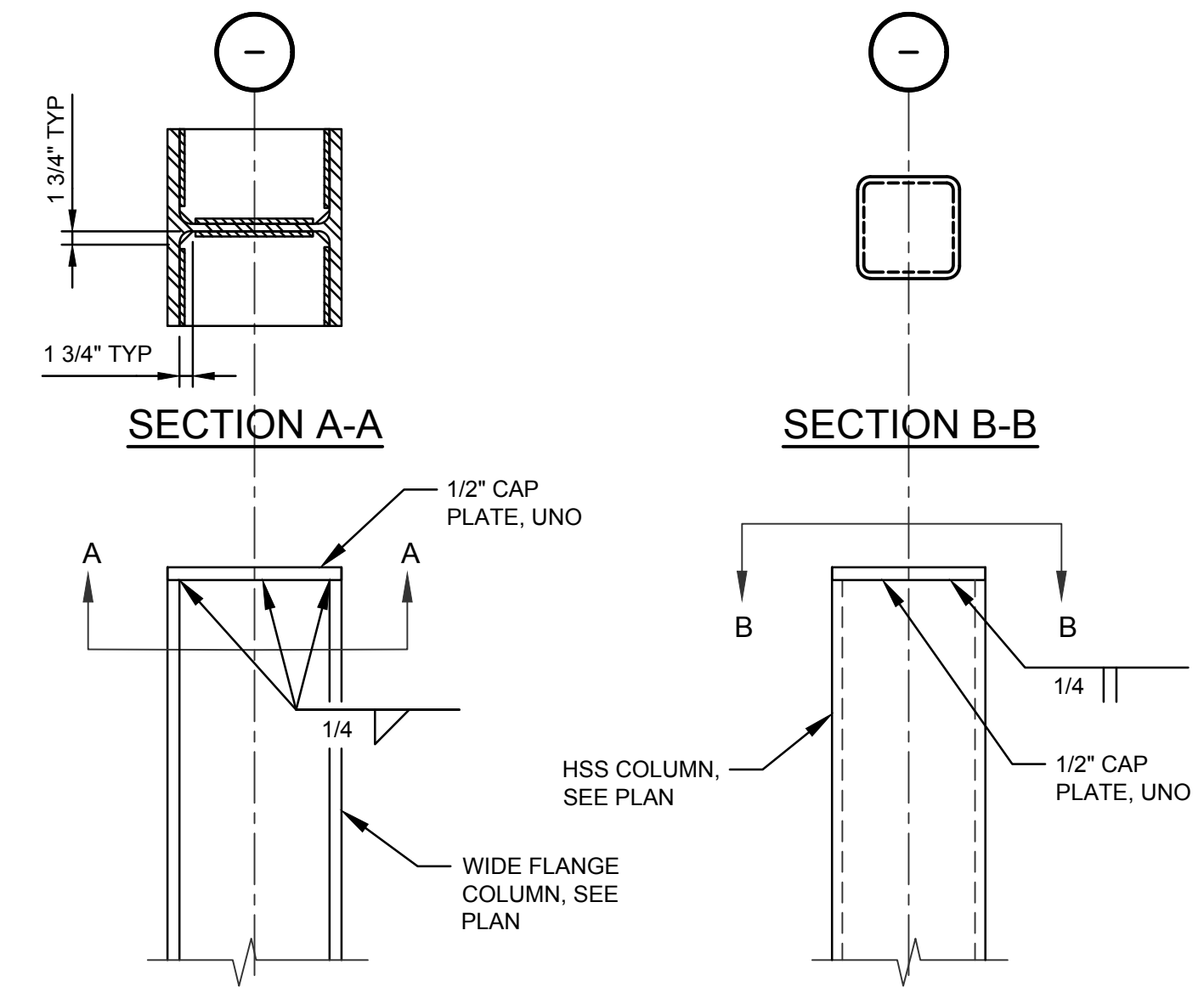


**NOTES:**

1. EQUIPMENT BASE SHALL BE INSTALLED LEVEL.
2. "C" SHALL BE AS REQUIRED TO SET THE EQUIPMENT AT THE REQUIRED ELEVATION BUT SHALL NOT BE LESS THAN 4".
3. STIRRUPS CAN BE EITHER CAST-IN-PLACE OR EPOXY POST-INSTALLED.

**TYPICAL INTERIOR EQUIPMENT BASE**  
NTS

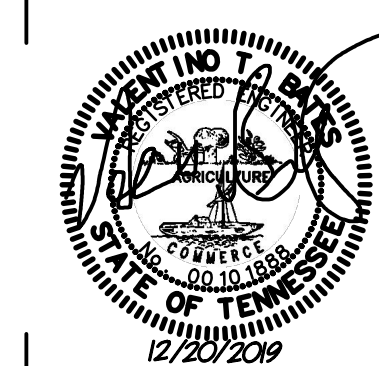
217



NOTE: PROVIDE CAP PLATES AT TOP OF ALL HSS COLUMNS, AT TOPS OF WIDE FLANGE COLUMNS WHERE SUPPORTED BEAMS ARE FRAMED TO THE COLUMN WEB USING EXTENDED CONNECTIONS AND WHERE INDICATED ON DETAILS.

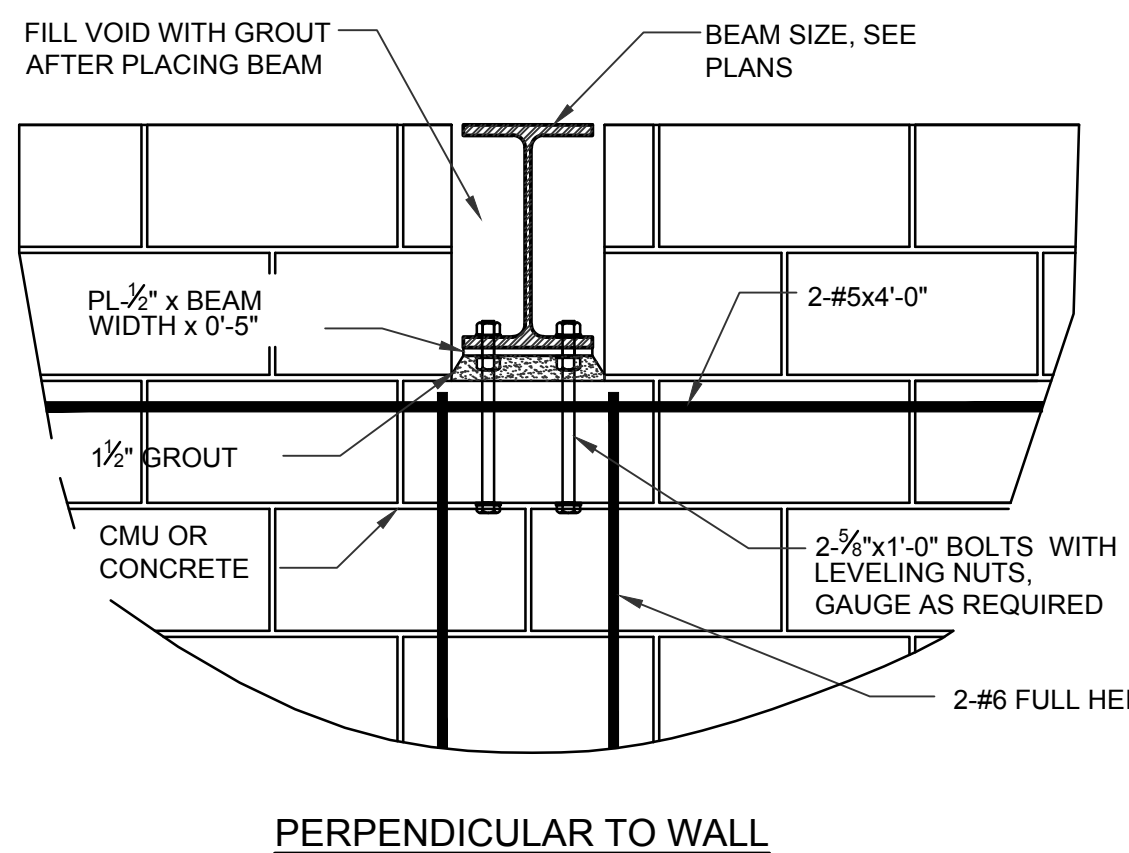
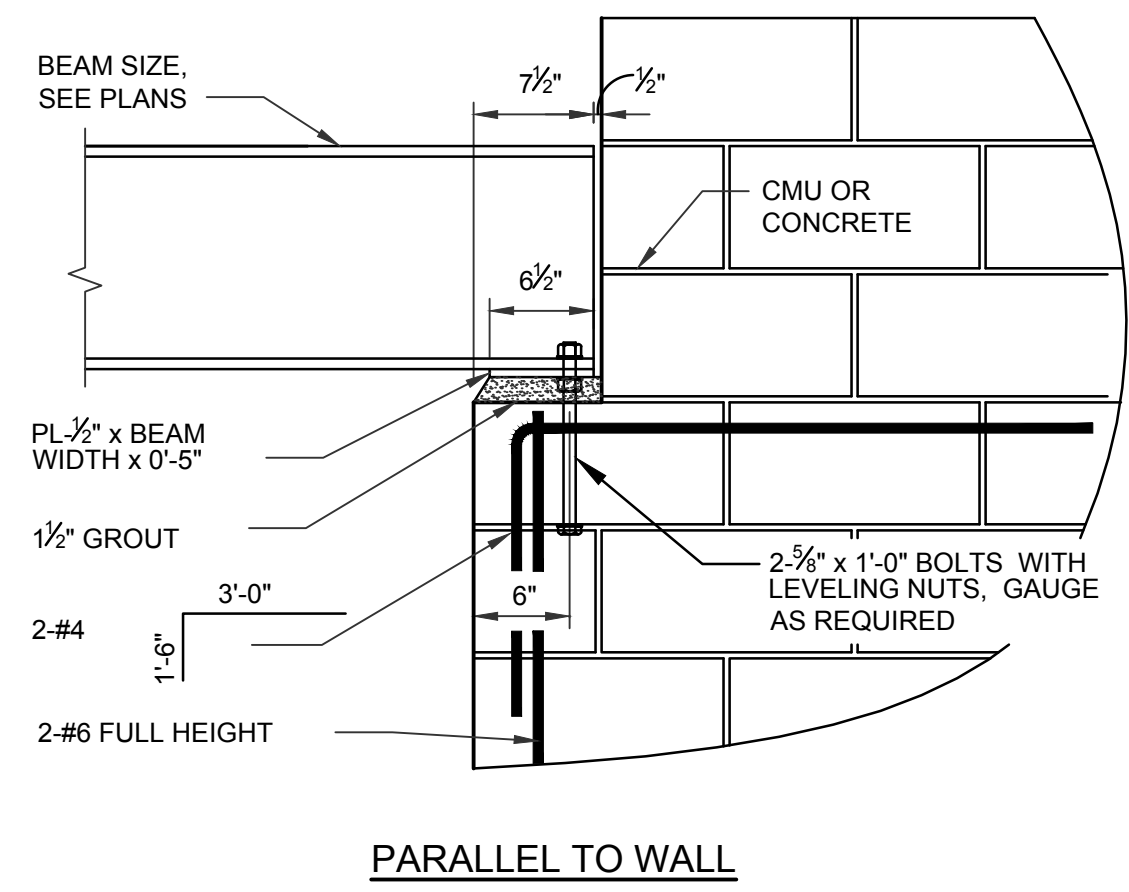
**TYPICAL COLUMN CAP PLATE DETAILS**  
NTS

218



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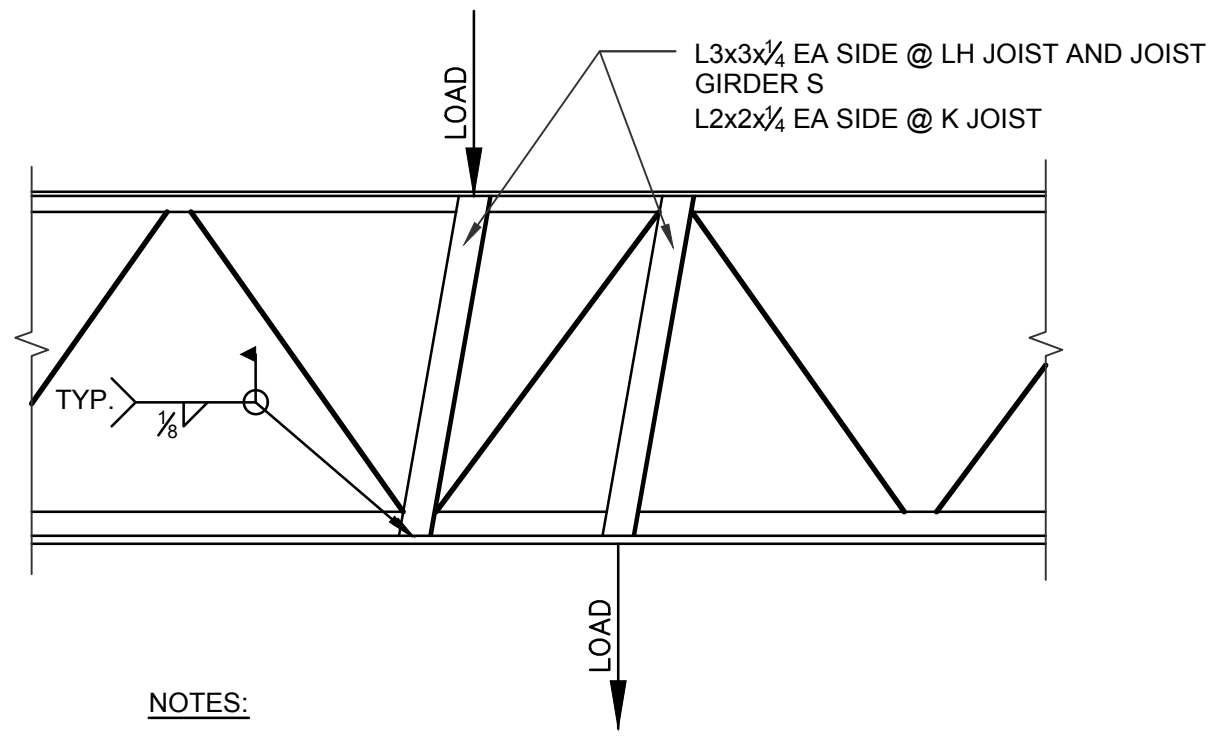
BRICK LOOSE LINTEL SCHEDULE

SPAN	ANGLE SIZE	COMMENTS
UP TO 5'-6"	L4x4x3/8"	4" MIN BEARING EACH END
5'-6" TO 10'-0"	L7x4x3/8" LLV	8" MIN BEARING EACH END

NOTE: GALVANIZE OR EPOXY COAT EXPOSED LINTELS.

LOOSE LINTEL SCHEDULE NTS

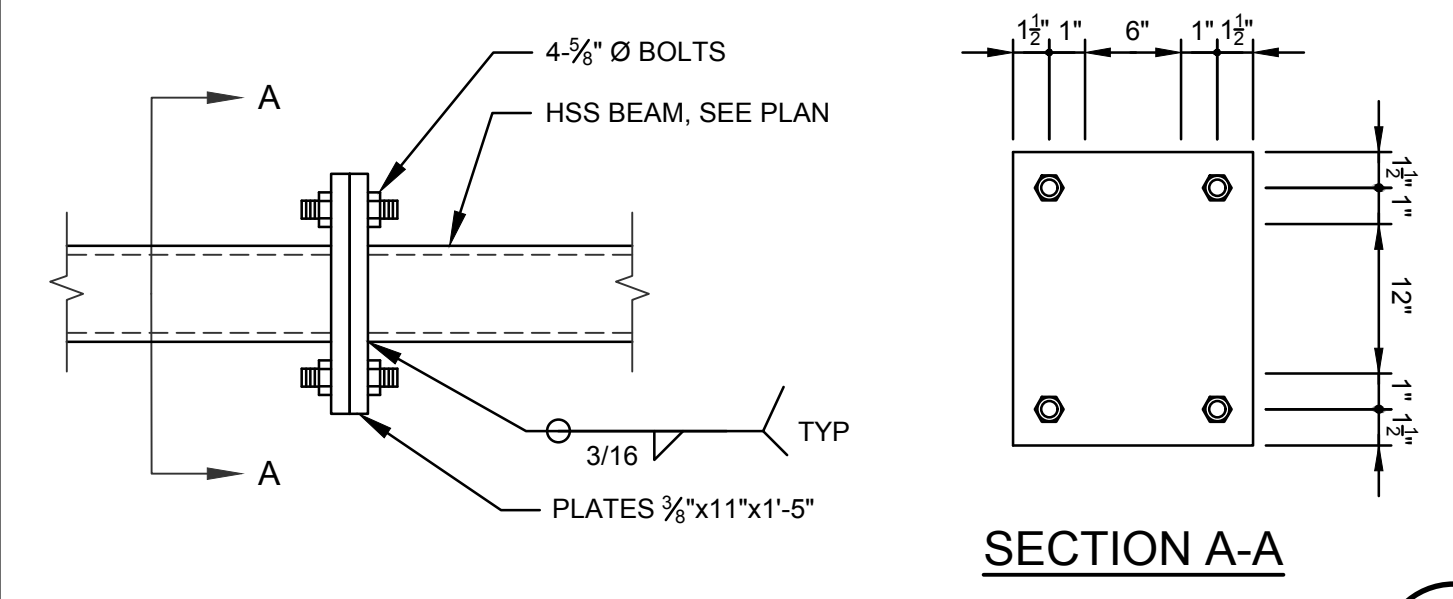
220



- NOTES:
- FOR LOADS AT LOCATIONS OTHER THAN PANEL POINTS.
  - WHERE DISTANCE FROM PANEL POINT DOES NOT EXCEED 6" FOR LH JOIST/JOIST GIRDER OR 3" FOR K JOIST, STRUT IS NOT REQUIRED.

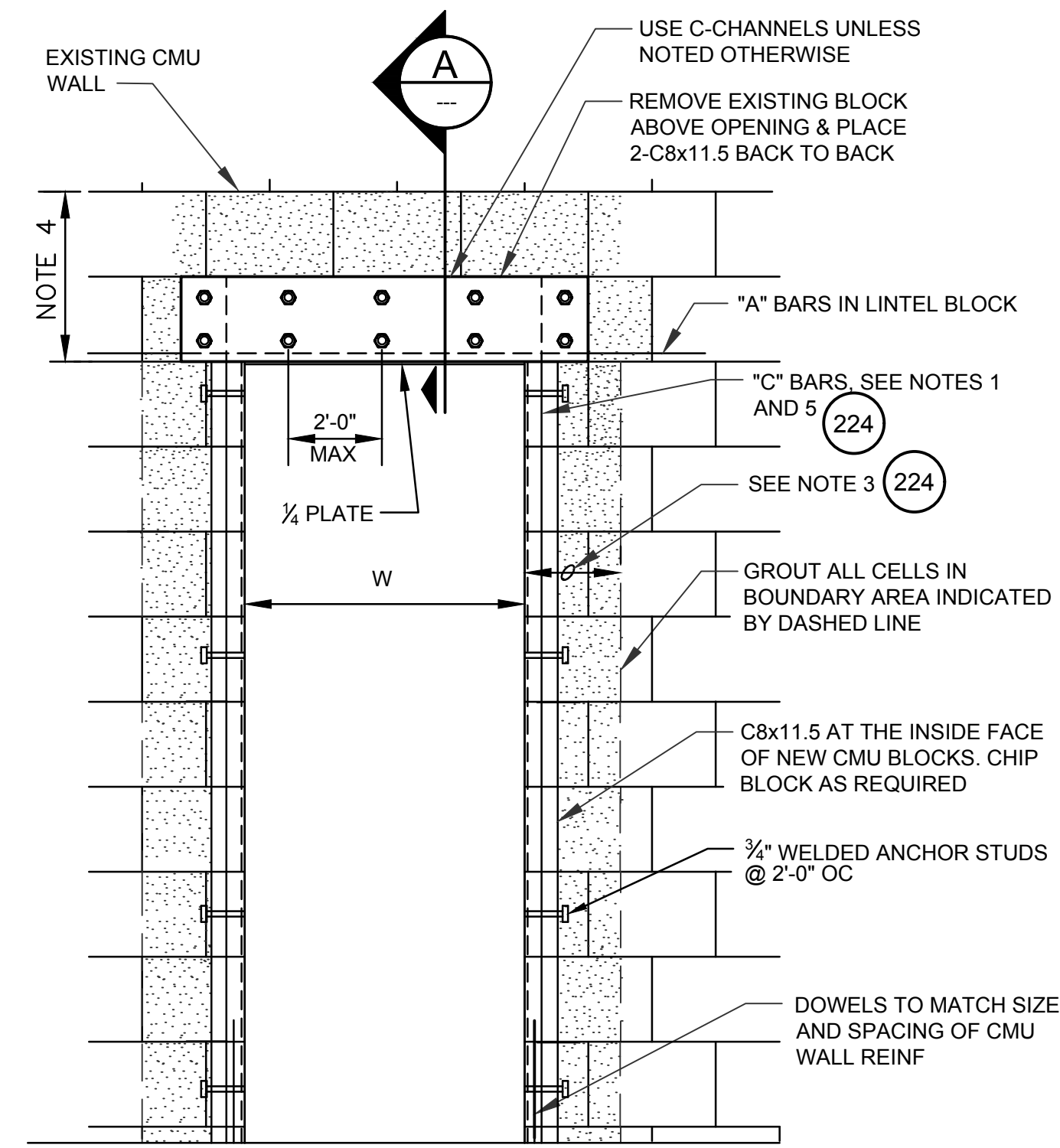
TYPICAL JOIST/JOIST GIRDER CHORD SUPPORT NTS

221



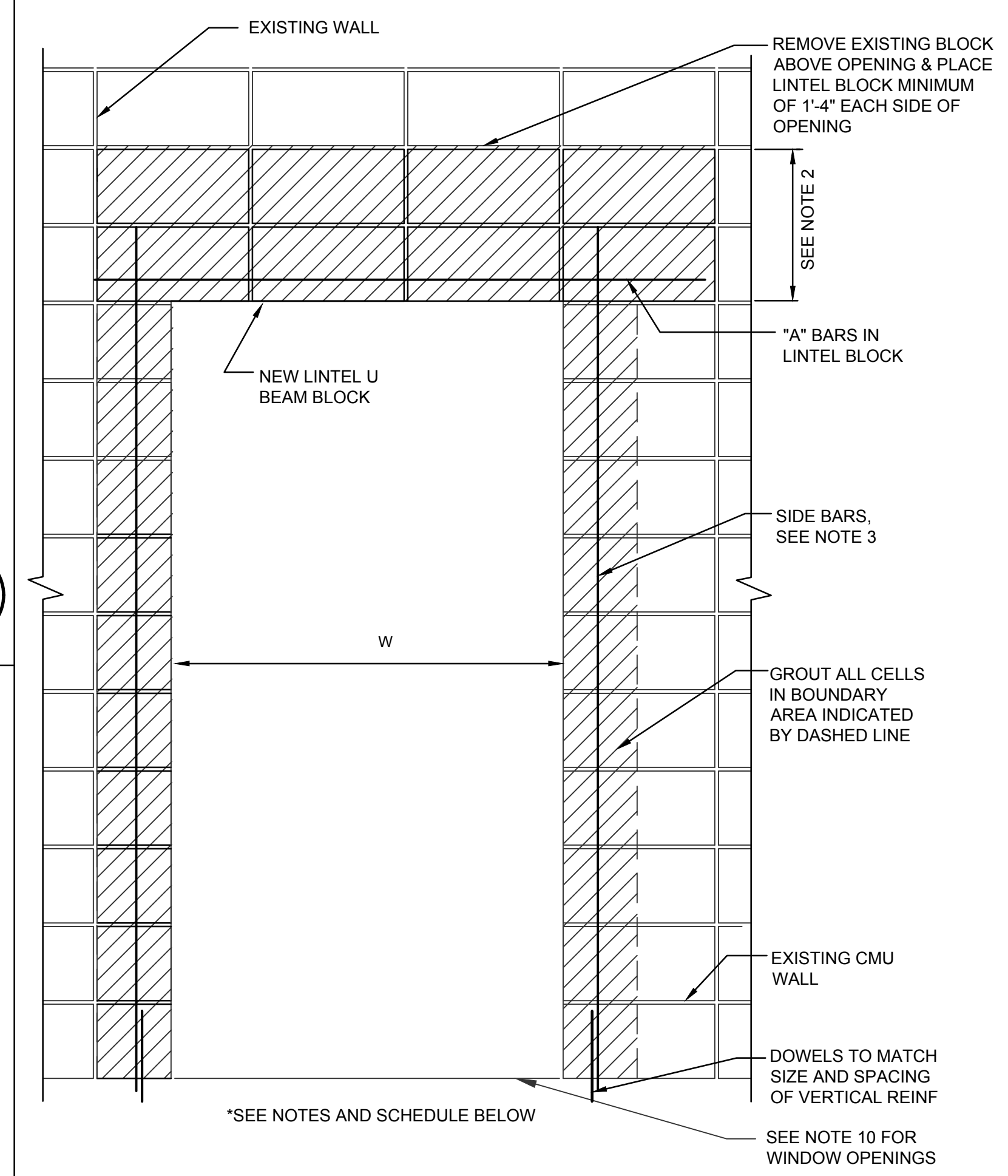
BEAM SPLICE NTS

222



NEW OPENING IN EXISTING INTERIOR WALL NTS

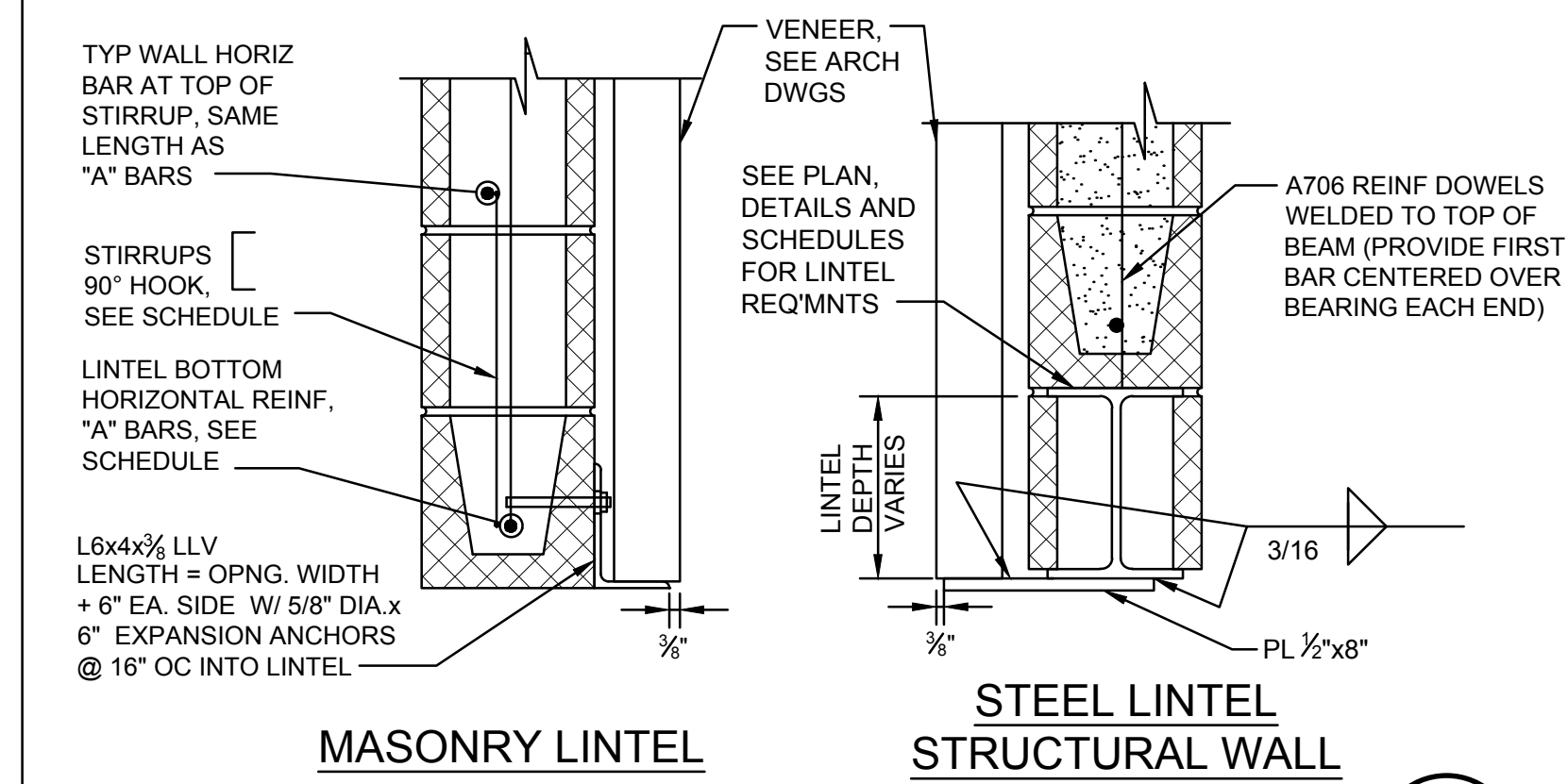
223



CMU OPENING REINFORCEMENT SCHEDULE

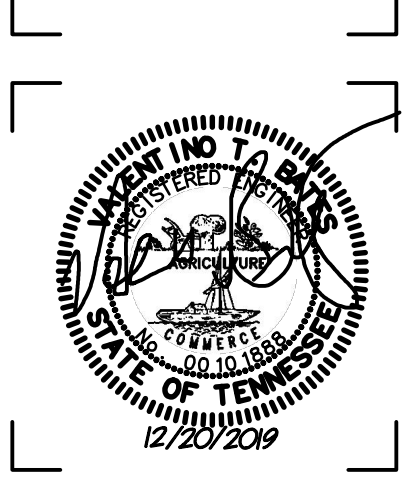
W	LINTEL DEPTH	STIRRUP SIZE/SPA	"A" BARS		"B" BARS		"C" BARS		# CELLS TO GROUT NOTE 3	
			8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU	8" CMU	12" CMU
<2'-8"	8"	-	1-#5	2-#5	1-#5	2-#5	1-#5	2-#4	ONE	ONE
>2'-8" <4'-0"	16"	-	1-#6	2-#5	1-#6	2-#5	1-#5	2-#4	ONE	ONE
>4'-0" <6'-0"	24"	#3@8"	1-#7	2-#6	1-#7	2-#6	2-#5	4-#5	TWO	TWO
>6'-0" <10'-0"	8"		W8x24							
>10'-0" <18'-0"	16"		W16x36							

- NOTES:
- EXTEND "C" BARS 2'-0" MINIMUM BEYOND TOP AND BOTTOM OF OPENING EXCEPT THAT WHEN "H" OR "W" EXCEEDS 2'-0". "C" BARS SHALL EXTEND FULL HEIGHT. "C" BARS SHALL BE ONE CENTERED PER CELL IN 8" WALLS AND TWO (1 EF) PER CELL IN 12" WALLS.
  - "A" AND "B" BARS SHALL EXTEND 2'-0" EACH SIDE OF THE OPENING. GROUT TO END OF BARS.
  - SEE SCHEDULE FOR NUMBER OF CELLS TO GROUT ON EACH SIDE OF OPENING.
  - GROUT ALL CELLS OVER OPENING TO W/2 OR 2'-0" WHICHEVER IS GREATER UNLESS TOP OF WALL IS REACHED FIRST.
  - IF OPENING DOES NOT FALL EXACTLY ON A CELL, GROUT PARTIAL BLOCK IN ADDITION TO CELLS REQUIRED ABOVE.
  - JOINT REINFORCING SHALL BE @ 16" OC. SEE SPECIFICATION FOR TYPE.
  - MINIMUM LINTEL BEARING 8" EACH SIDE OF OPENING.
  - NOTCH BEAM FLANGES AS NEEDED TO PASS VERTICAL REINFORCING BARS AND GROUT BEAM BEARING AREA SOLID.
  - DOWELS INTO EXISTING CONCRETE SHALL BE DRILLED AND ANCHORED INTO FOUNDATION. FOR WINDOWS IN EXISTING WALL SEE DETAIL (212) FOR "B" BARS.



NEW OPENING IN EXISTING EXTERIOR WALL NTS

224

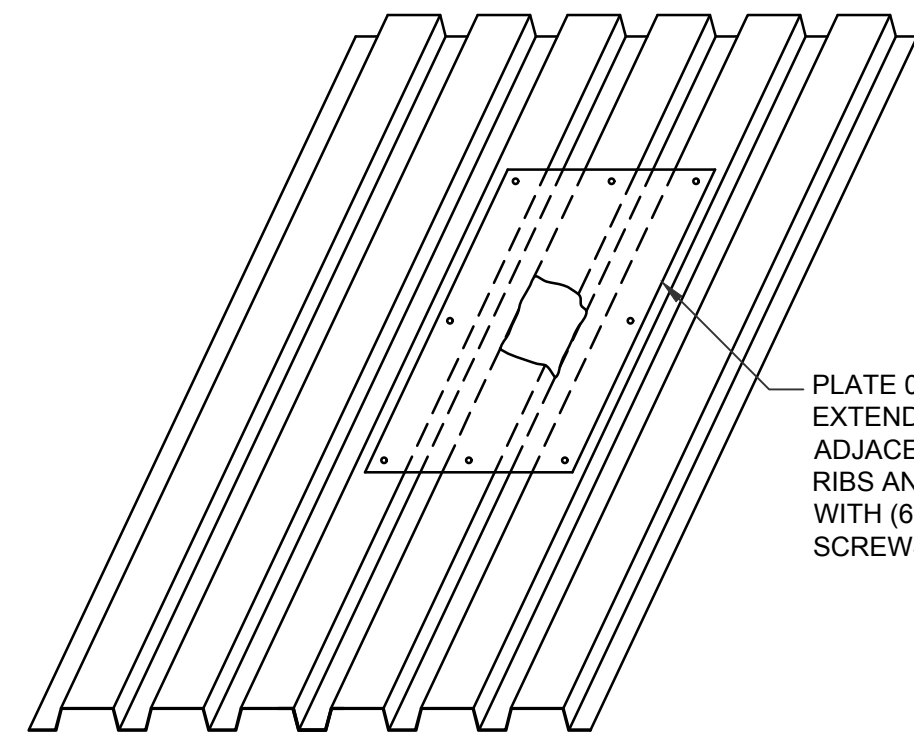


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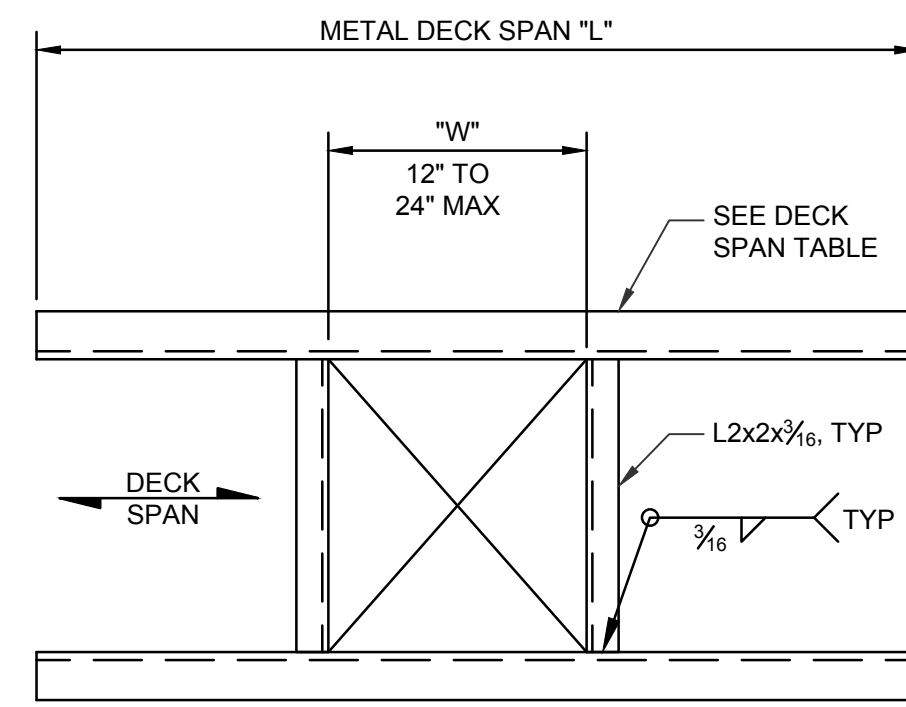
JOB NO. 18-072 | DWN BDLR | CKD APWD

S3.2  
DETAILS 3





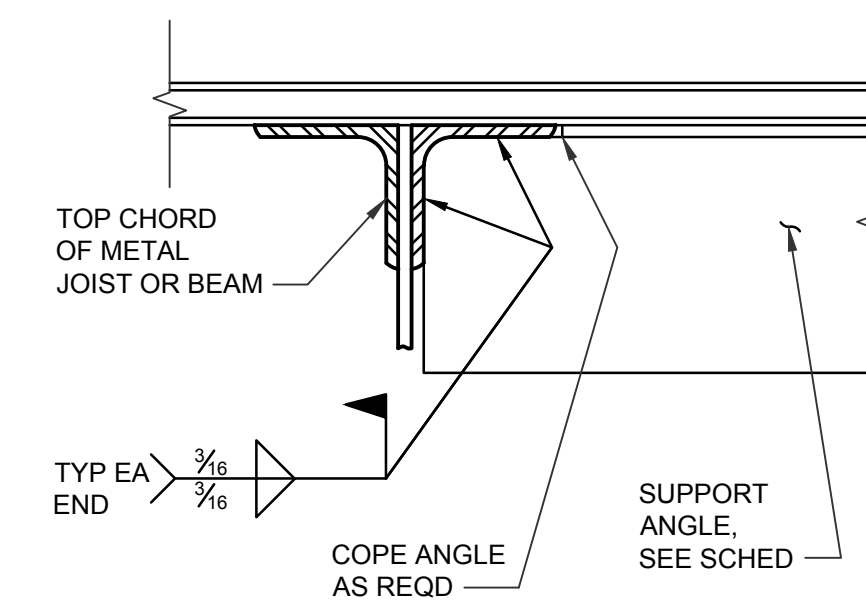
**ISOMETRIC**  
OPENINGS 6" TO 12" DIAMETER



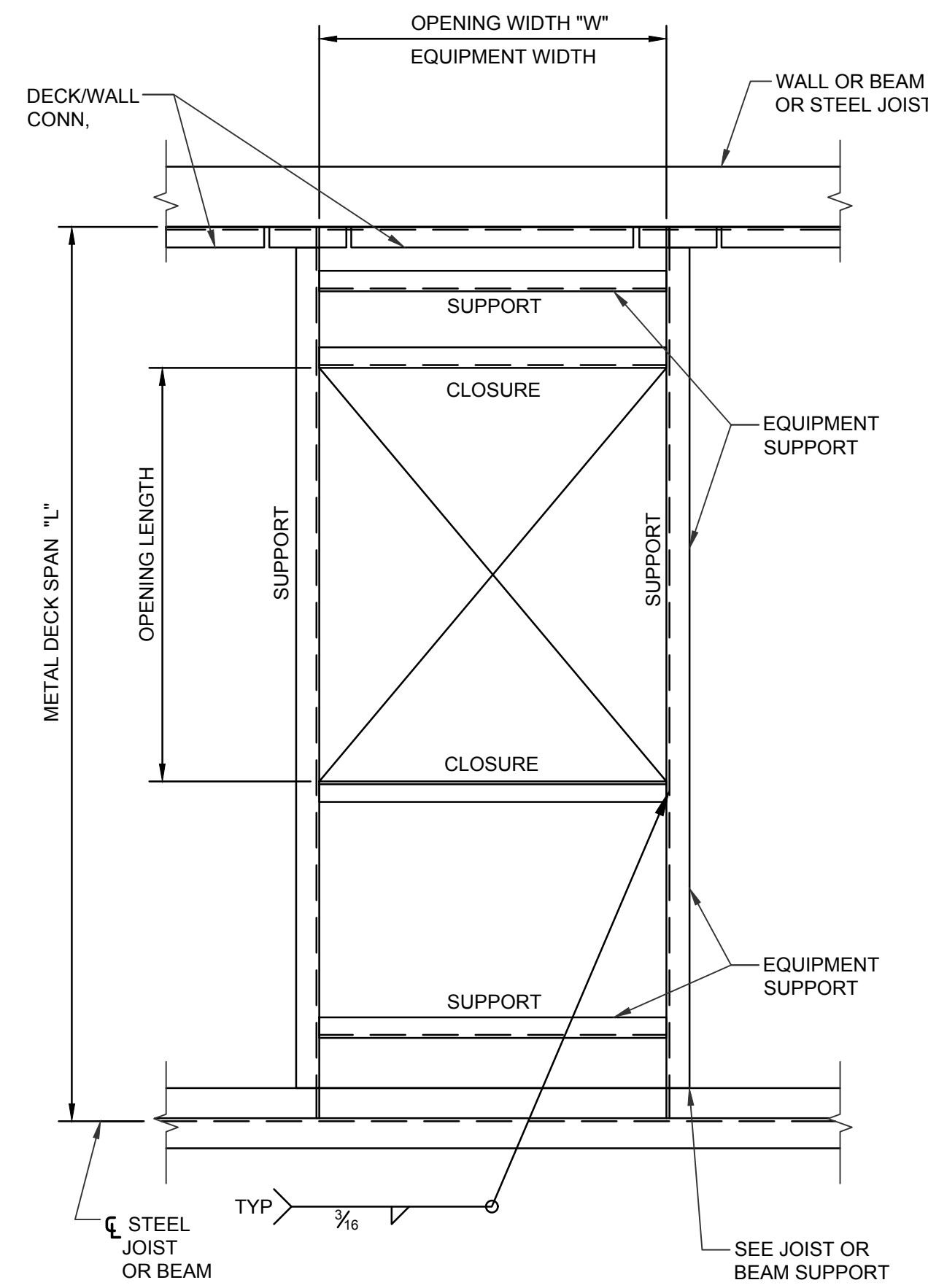
**PLAN**  
OPENINGS 1'-0" TO 2'-0"

OPENING FRAMING	
OPENING	CLOSURE
1'-0" < W ≤ 2'-0"	L2x2x <sup>3</sup> / <sub>16</sub>
2'-0" < W ≤ 4'-0"	L3x3x <sup>3</sup> / <sub>4</sub>
4'-0" < W ≤ 6'-0"	L4x3x <sup>3</sup> / <sub>4</sub> (LLV)
6'-0" < W	NA

DECK SPAN/EQUIPMENT SUPPORT	
SPAN	ANGLE SIZE
L ≤ 4'-0"	L3x3x1/4
4'-0" < L ≤ 6'-0"	L4x3x3/8 (LLV)
6'-0" < L ≤ 8'-0"	L5x3x3/8 (LLV)
8'-0" < L ≤ 10'-0"	L6x4x3/8 (LLV)
HVAC UNIT SUPPORT	L6x4x3/8 (LLV)



**JOIST OR BEAM SUPPORT**

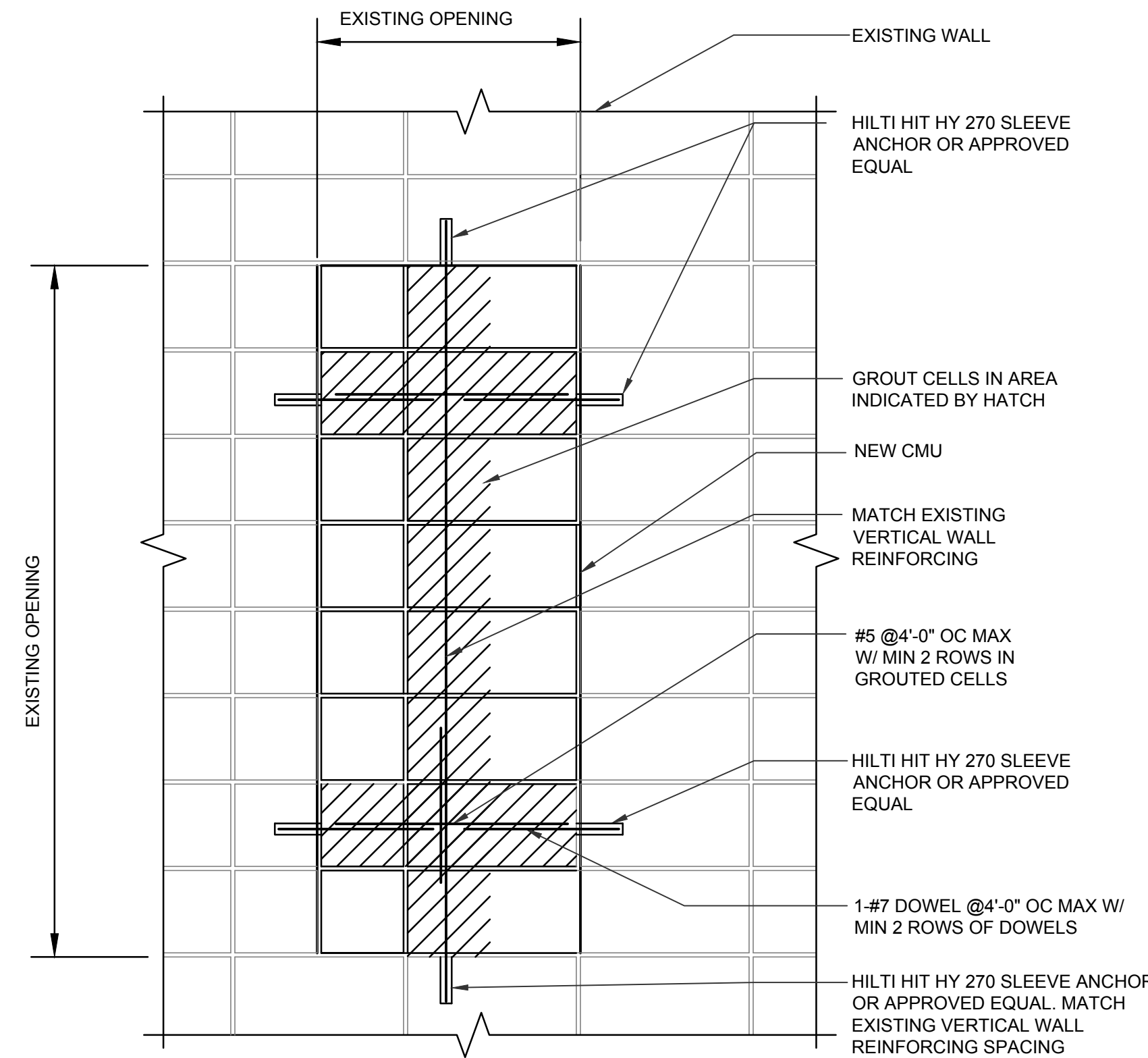


**PLAN**  
OPENINGS 2'-1" TO 6'-0"

- NOTES:**
- ATTACH METAL DECKING TO ALL SUPPORTS PERPENDICULAR TO DECKING SPAN WITH EITHER POWDER ACTUATED FASTENERS OR <sup>3</sup>/<sub>16</sub>" PUDDLE WELDS AT EACH VALLEY OF DECKING. ATTACH METAL DECKING TO SUPPORTS PARALLEL TO SPAN @ 6" ON CENTER. WHERE VALLEY OF DECKING DOES NOT FALL AT SUPPORTS PARALLEL TO DECK SPAN, PROVIDE FILLER PIECES FOR EQUAL ATTACHMENTS.
  - EQUIPMENT TO BE SUPPORTED BY FOUR SUPPORTS SELECTED FROM SUPPORT TABLE. NO SUPPORTS SHALL SPAN LONGER THAN 7'-6" IN EITHER DIRECTION. WHEN SUPPORTS EXCEED 7'-6" SPAN IN LONG DIRECTION PLACE PERPENDICULAR SUPPORT AS NEEDED.

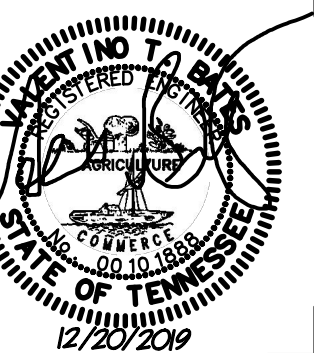
**ROOF DECK OPENING FRAMING AND EQUIPMENT SUPPORT**  
NTS

225



**INFILL CMU OPENING AT EXISTING WALL**  
NTS

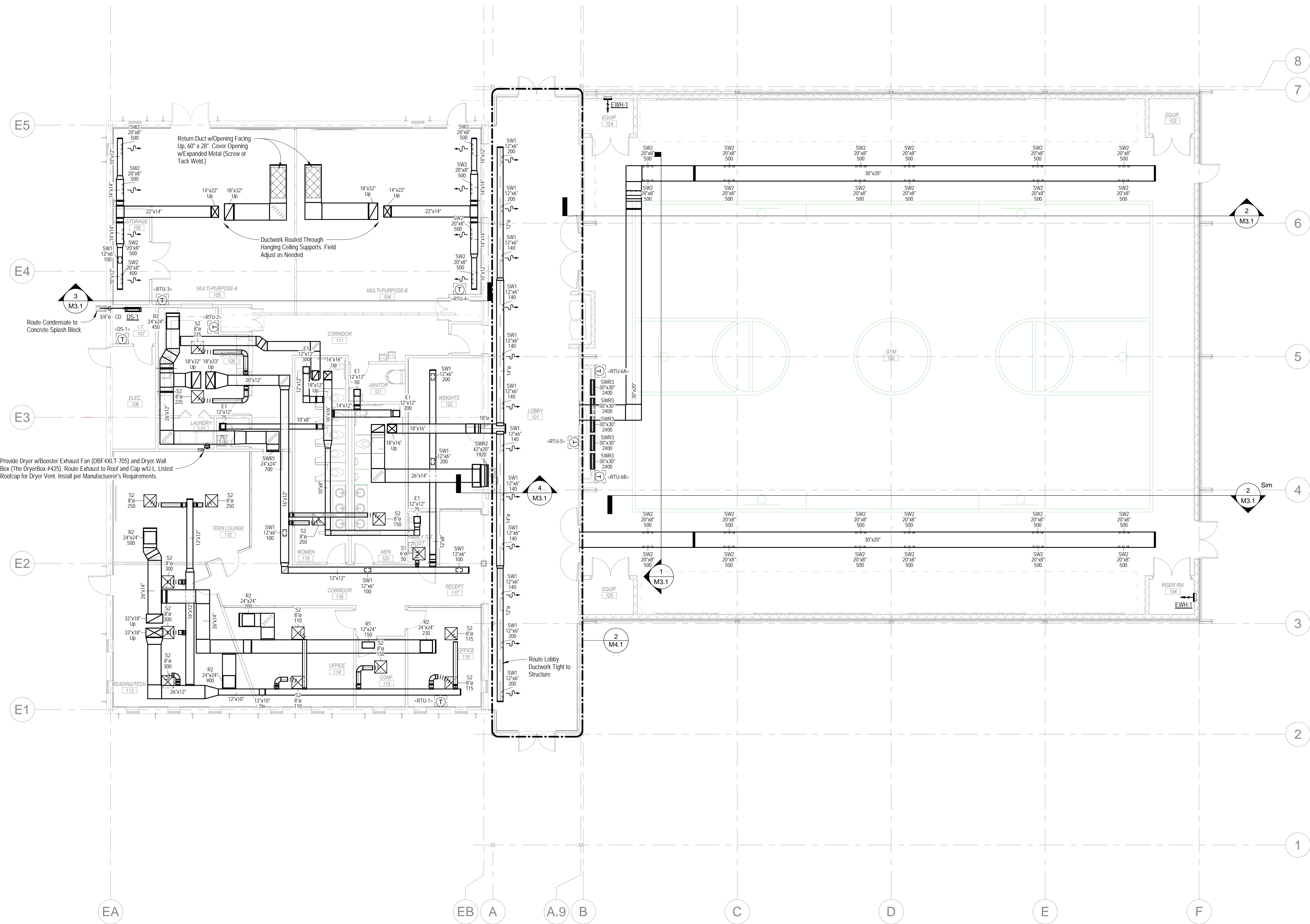
226



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18-072 | BDLR | APWD

**S3.3**  
DETAILS 4

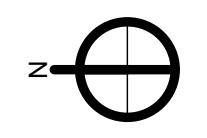


Provide Dryer w/Booster Exhaust Fan (DBF4XL-705) and Dryer Wall Box (The DryerBox #425). Route Exhaust to Roof and Cap w/U.L. Listed Rooftop for Dryer Vent. Install per Manufacturer's Requirements.

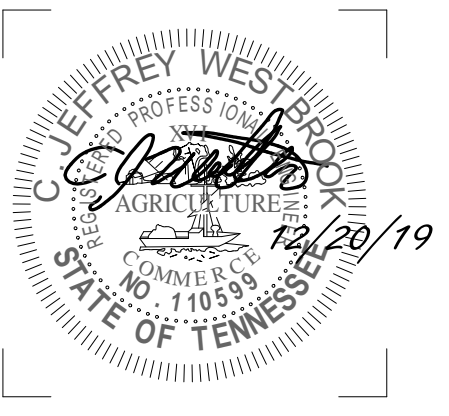
Route Condensate to Concrete Splash Block

Route Lobby Ductwork Tight to Structure

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



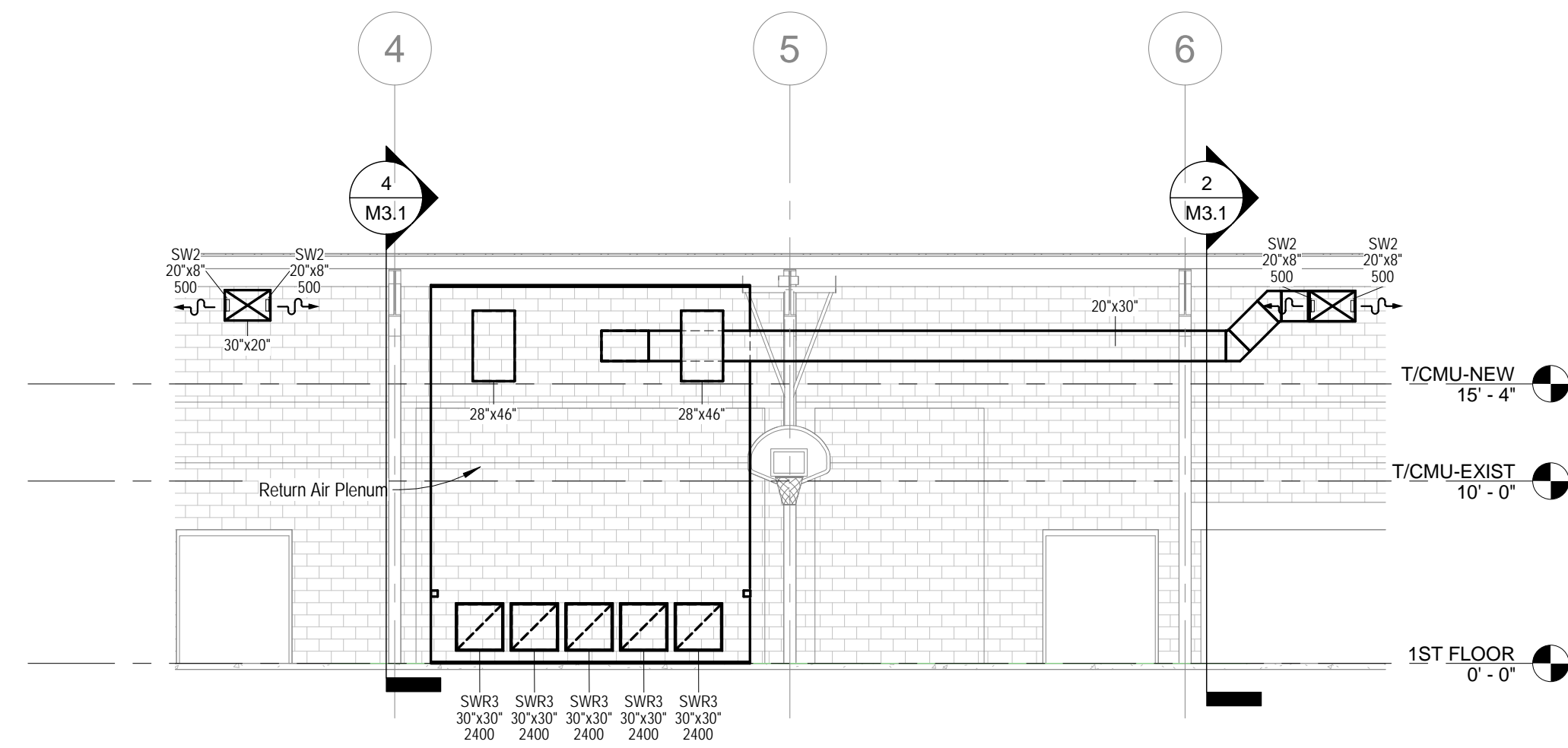
**East Lake YFD Center  
Improvements**  
3610 Dodds Avenue, Chattanooga, TN 37402



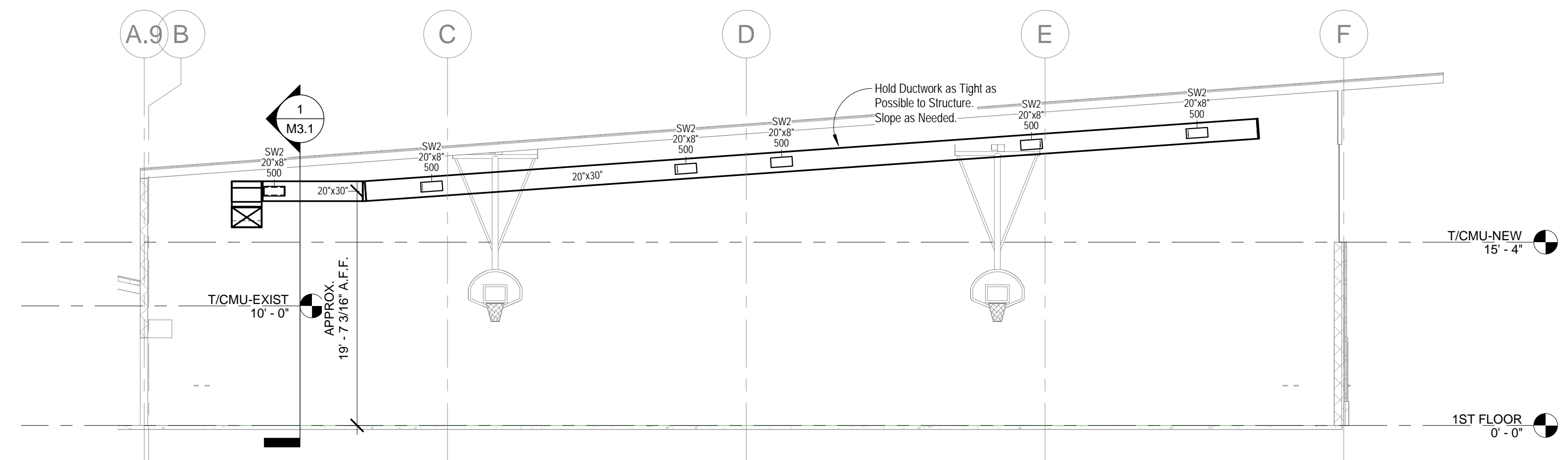
ISSUE DATES  
INITIAL ISSUE 12/20/19

JOB NO. 18-072 D'WN BRF/HSW CKD CJW

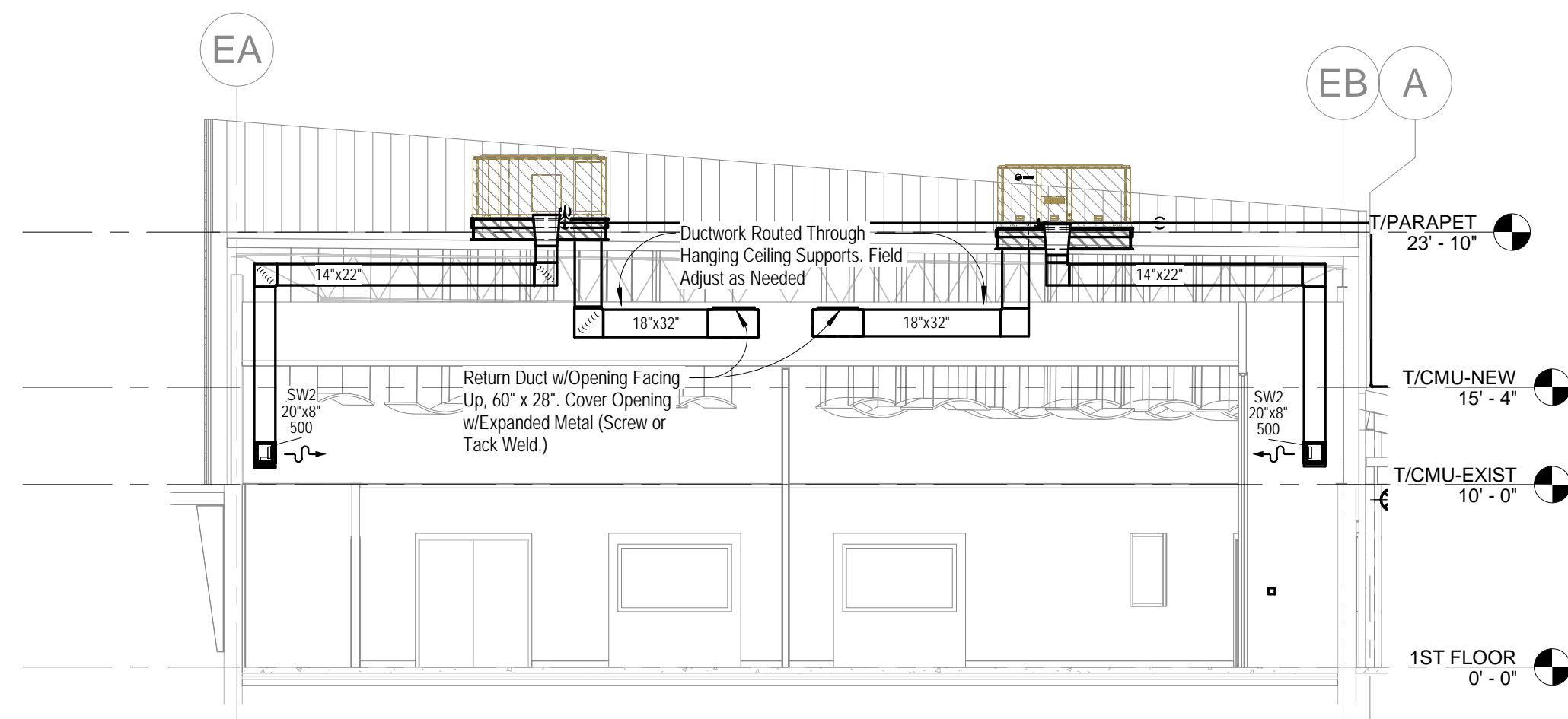




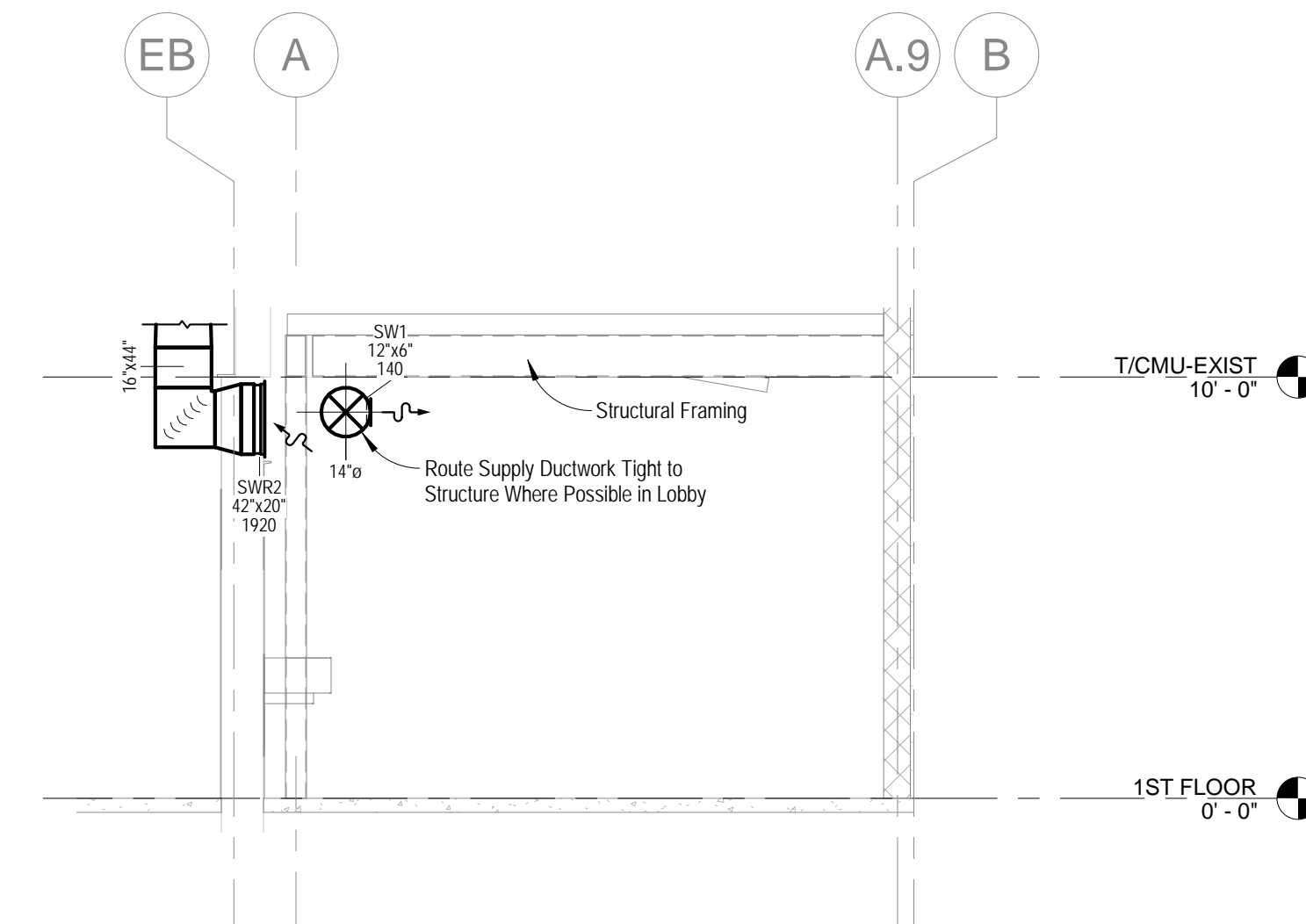
**1 MECHANICAL SECTION - GYM RETURN GRILLES**  
SCALE: 1/8" = 1'-0"



**2 MECHANICAL SECTION - GYM DUCTWORK**  
SCALE: 1/8" = 1'-0"



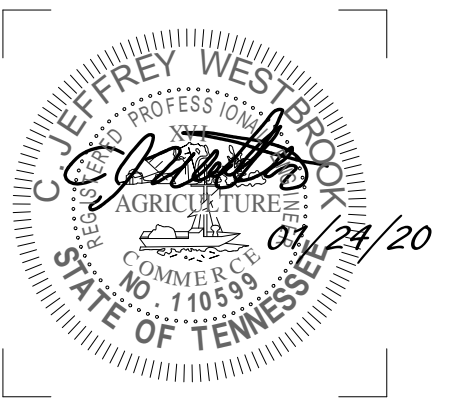
**3 MECHANICAL SECTION - MULTIPURPOSE**  
SCALE: 1/8" = 1'-0"



**4 MECHANICAL SECTION - LOBBY DUCTWORK**  
SCALE: 1/4" = 1'-0"



**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402

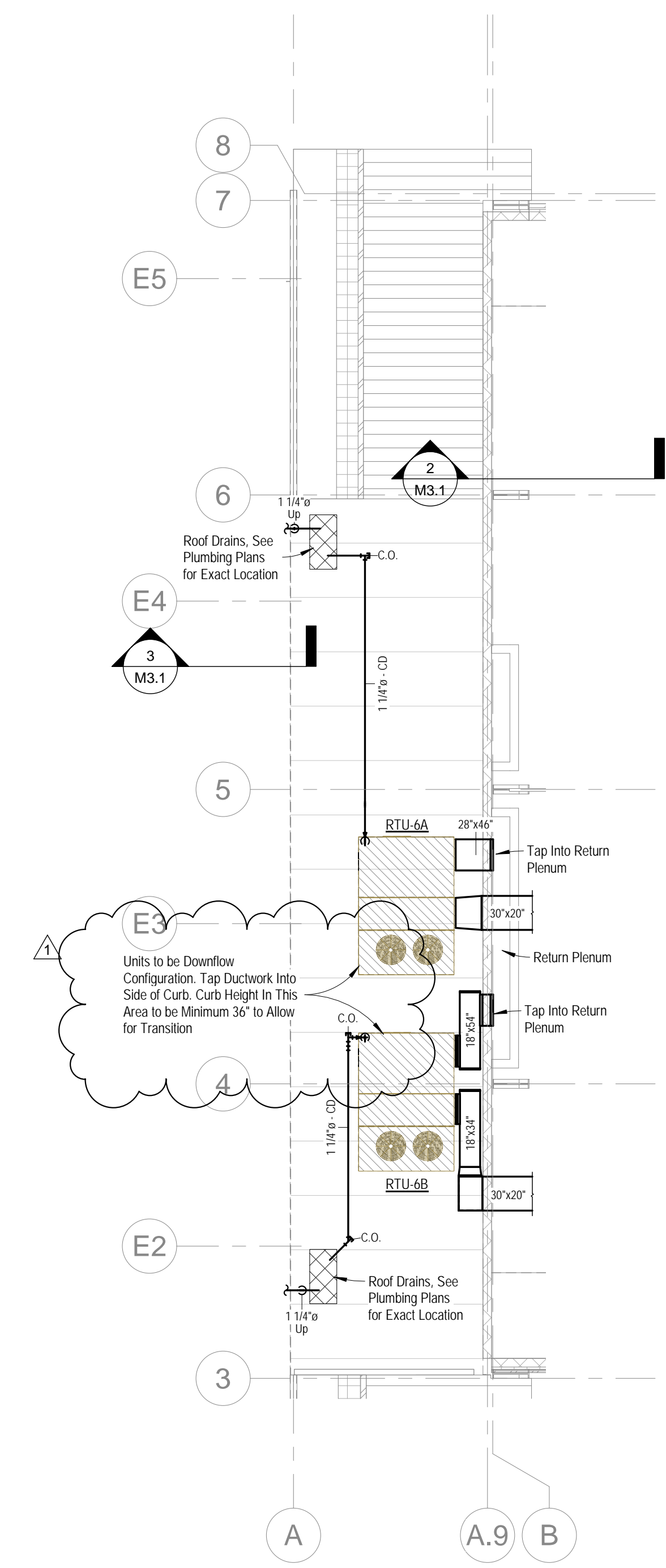


ISSUE DATES	
INITIAL ISSUE	12/20/19
1 ADDENDUM 10	01/24/20

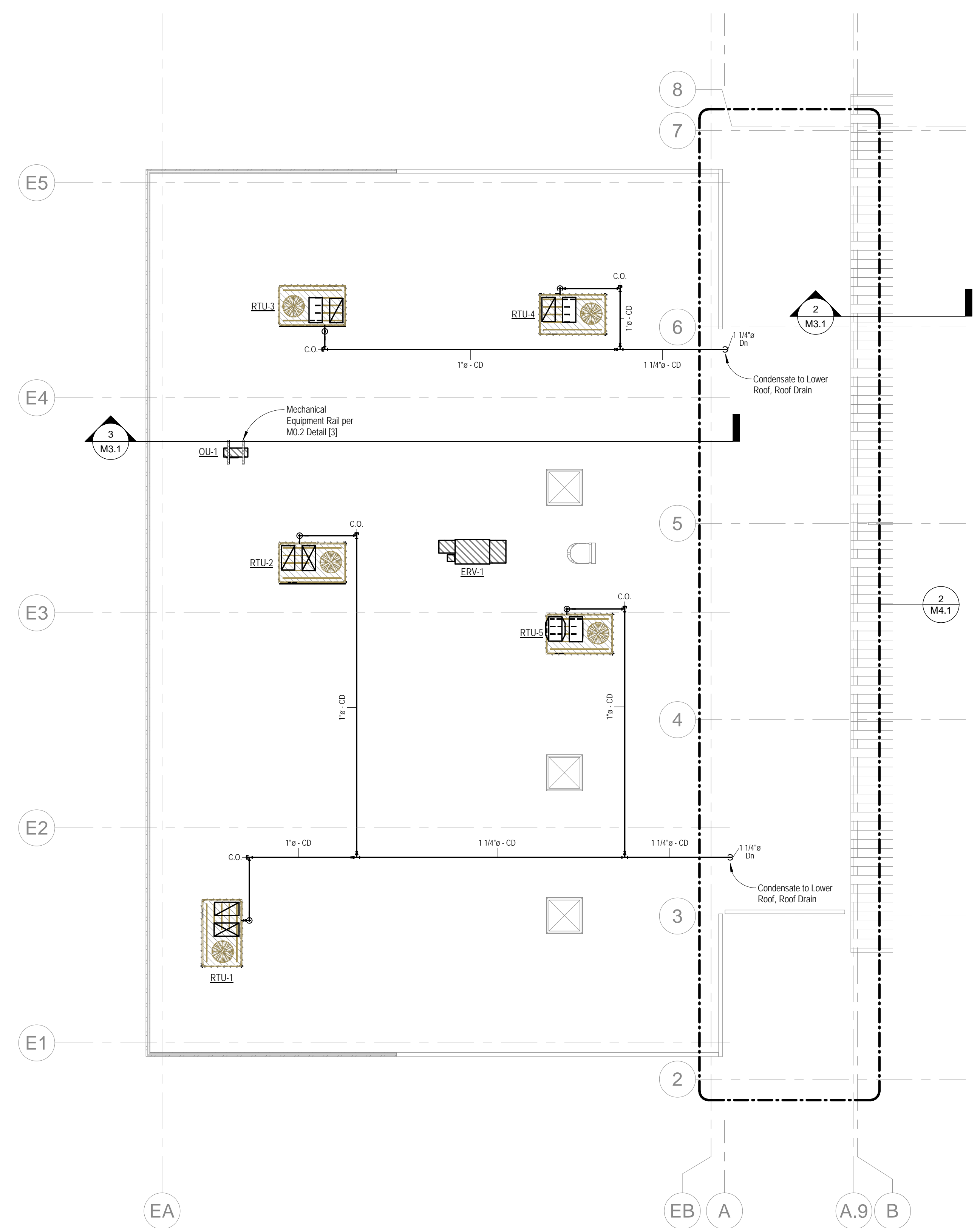
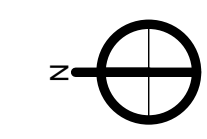
JOB NO.	D'WN	CKD
18-072	BRF/HSW	CJW

**M4.1**  
 MECHANICAL ROOF PLAN

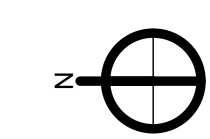
**MA & A** March Adams & Associates  
 Consulting Engineers  
 310 Dodds Ave.  
 P.O. Box 3689  
 Chattanooga, Tennessee 37404  
 PH: (423)698-6675  
 MAA #: 19211



**2 LOWER ROOF PLAN - MECHANICAL**  
 SCALE: 1/8" = 1'-0"



**1 UPPER ROOF PLAN - MECHANICAL**  
 SCALE: 1/8" = 1'-0"





Rooftop Unit Schedule - Gas Heat																			
Mark	Manufacturer	Model	Air Flow			External Static Pressure	Cooling			Energy Efficiency Rating	Gas Heating		Electrical			Operating Weight	Notes		
			Supply Air	Outdoor Air	Maximum		Nominal Capacity	Net Total	Net Sensible		Input	Output	Filter	Voltage	Number of Poles			MCA	MOCP
RTU-1	Trane	YHC248E3	2,000 CFM	100 CFM	415 CFM	0.75 in-wg	5.0 ton	57,020 Btu/h	46,340 Btu/h	12.0	100,000 Btu/h	81,000 Btu/h	MERV 8	208 V	3	29 A	40 A	746 lb	1-9
RTU-2	Trane	YHC248E3	1,500 CFM	900 CFM	900 CFM	0.75 in-wg	4.0 ton	47,050 Btu/h	36,930 Btu/h	12.0	100,000 Btu/h	81,000 Btu/h	MERV 8	208 V	3	26 A	35 A	692 lb	1-9
RTU-3	Trane	YHC248F3	1,200 CFM	60 CFM	800 CFM	0.75 in-wg	4.0 ton	47,050 Btu/h	36,930 Btu/h	12.0	100,000 Btu/h	81,000 Btu/h	MERV 8	208 V	3	26 A	35 A	692 lb	1-9
RTU-4	Trane	YHC248F3	1,200 CFM	60 CFM	800 CFM	0.75 in-wg	4.0 ton	47,050 Btu/h	36,930 Btu/h	12.0	100,000 Btu/h	81,000 Btu/h	MERV 8	208 V	3	26 A	35 A	692 lb	1-9
RTU-5	Trane	YHC207F3	1,600 CFM	100 CFM	460 CFM	0.75 in-wg	6.0 ton	69,370 Btu/h	49,370 Btu/h	13.1	100,000 Btu/h	81,000 Btu/h	MERV 8	208 V	3	37 A	50 A	1,488 lb	1-10
RTU-6A	Trane	YHH210G3RL	6,000 CFM	500 CFM	1,505 CFM	1.75 in-wg	17.5 ton	199,920 Btu/h	152,450 Btu/h	11.8	350,000 Btu/h	280,000 Btu/h	MERV 8	208 V	3	83 A	110 A	2,723 lb	1.5,7-11
RTU-6B	Trane	YHH210G3RL	6,000 CFM	500 CFM	1,500 CFM	1.75 in-wg	17.5 ton	199,920 Btu/h	152,450 Btu/h	11.8	350,000 Btu/h	280,000 Btu/h	MERV 8	208 V	3	83 A	110 A	2,723 lb	1.5,7-11

- Notes:
- Condenser coil hall guard
  - Manufacturer's 7-day programmable thermostat
  - Enthalpy controlled economizer w/Barometric Relief
  - Unit mounted CO2 sensor. Include manufacturer's controls to modulate outdoor air to maintain less than 800 p.p.m. (adjustable)
  - Convenience outlet (powered)
  - Roof curb height TBD - Slope as required to insure level equipment installation
  - Hot Gas Reheat
  - VFD Fan Controls
  - Unit mounted Humidity sensor
  - Dual Compressors for Part Load Applications
  - Roof curb height 3" Minimum Above Flashing on Supply/Return Side. - Slope as Required to Insure Level Equipment Installation - Coordinate w/Roofing Contractor

Approved Alternates: Carrier, Dakin, Johnson Controls Any Alternate Must Be Able to Meet Clearance of Low Roof RTUs

Energy Recovery Ventilator (ERV) Schedule																	
Mark	Manufacturer	Model	Supply Fan			Exhaust Air			Load Reduction			Electrical			Operating Weight	Notes	
			CFM	ESP	HP	CFM	ESP	HP	Cooling	Heating	Effectiveness	Voltage	Phase	MCA			MOCP
ERV-1	RenewWare	HE1.5JRTVS355TANTL	900 CFM	0.50 in-wg	1.0 hp	900 CFM	0.50 in-wg	1.0 W	24,393 Btu/h	46,335 Btu/h	59.5%	208 V	3	5 A	15 A	548 lb	1-5

- Notes:
- Provide w/Frost Protection
  - Provide w/Insulated Roof Curb Sloped to Meet Roof - Height TBD
  - Provide w/MERV 8 Filters (Supply and Exhaust)
  - Must Be Able to Operate in Exhaust Only Application (Only During RTU-2 Economizer Cycle)
  - Provide w/Non-Fused Disconnect

Approved Alternates: Ruskin, Greenheck, or Equivalent

Electric Wall Heater Schedule									
Mark	Manufacturer	Model	Watts	Voltage	Number of Poles	Operating Weight	Location	Control	Notes
EW-1	Markel	E3321TD-RP	750 W	120 V	1	26 lb	Recessed	Integrated Thermostat	1-2

- Notes:
- Electric wall heater shall be provided with electrical disconnect, protective devices, sensors, and interlocks required for a complete, operable system.
  - Electric wall heater shall be hard wired, plugs are not acceptable.

Approved Alternates: QMark, Dayton

High-Wall Ductless Split System Schedule																	
Mark	Model	Manufacturer	Nominal Cooling Capacity	Outdoor Section			Indoor Section					Operating Weight	Mark	Model	Air Flow	Operating Weight	Notes
				Total	Sensible	SEER	Voltage	Number of Poles	MCA	MOCP							
OU-1	PUY-A12	Mitsubishi Electric	12,000 Btu/h	11,458 Btu/h	9,500 Btu/h	15.2	208 V	1	11 A	28 A	93 lb	DS-1	PKA-A12	425 CFM	55 lb	1-3	

- Notes:
- Provide w/Variable Speed Inverter Driven Compressor
  - Provide w/7-Day Programmable Digital Thermostat
  - Electrical Shall Provide Conduit Pull String for Low Power Wiring by Mechanical.

Approved Alternates: LG, Daikin, or Equivalent

Air Terminal Schedule						
Mark	Manufacturer	Model	Description	Material	Size	Count
E1	Price	80	Ceiling Exhaust Grille	Steel	12"x12"	5
R1	Price	80	Ceiling Return Grille	Steel	12"x24"	1
R2	Price	80	Ceiling Return Grille	Steel	24"x24"	5
S1	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	6"ø	1
S2	Price	SCD	Rectangular Face Ceiling Supply Diffuser - 24"x24" Face	Steel	8"ø	14
SW1	Price	520D	Sidewall Supply Register	Steel	12"x6"	18
SW2	Price	520D	Sidewall Supply Register	Steel	20"x8"	32
SWR1	Price	535	Sidewall Return Grille	Steel	24"x24"	1
SWR2	Price	535	Sidewall Return Grille	Steel	42"x20"	1
SWR3	Price	91	Sidewall Return Grille - Heavy Duty Gym Grille	Steel	30"x30"	5

- Notes:
- Noise Criteria Shall Not Exceed 25
  - Contractor Shall Coordinate Border with Ceiling Type (Lay-In Or Gyp.)
  - Refer to Mechanical Floor Plans(S) For CFM
  - Air Devices Are 4-Way Throw (Unless Noted Otherwise on Mechanical Floor Plans)
  - Supply Air Terminals Shall Be Supplied with Opposed Blade Damper
  - Provide Manual Volume Damper at Main Trunk Take-Off For Balancing Supply and Return
  - Air Terminal Finishes Shall Be Per Architect

Approved Alternates: Metaltaire, Tiltus

### Mechanical Symbols

**Sections**

- Indicates Similar to Noted View When Present
- View Number on Sheet
- Sheet on Which Detail Appears

**Air Terminals**

- CD1 - Mark (See Air Terminal Schedule)
- 6"ø - Duct Connection Size
- 125 - Air Flow (cfm)

**Supply Air Duct Up** | **Supply Air Duct Down**

**Return / Outdoor Air Duct Up** | **Return / Outdoor Air Duct Down**

**Exhaust Air Duct Up** | **Exhaust Air Duct Down**

**Duct Centerline (Round Duct)**

**Damper in Ductwork, If Damper is Unlabeled, Assume Balancing Damper, Manual (B)**

**Damper Types:**

- B = Balancing Damper, Manual
- 2-P = 2-Position Damper, Motorized Actuator
- M = Full Modulating Damper, Motorized Actuator
- F = Fire Damper
- FS = Combination Fire / Smoke Damper

**Coiling Diffuser with Flexible Duct Connection and 4-Way Throw Direction Arrows, if Throw Indication Arrows Are Not Present, Assume 4-Way Throw**

**Direction of Air Flow**

**Door Undercut (3/4" Unless Otherwise Indicated)**

**Mitered Rectangular Duct Elbow with Turning Vanes (Provide Turning Vanes in All Rectangular Supply Ductwork Even if Vanes Are Not Indicated, Turning Vanes Not Required in Return Air, Outdoor Air, and Exhaust Air Ducts Unless Indicated)**

**Rectangular Duct** | **Round Duct with Dimensions**

**Thermostat - Wall Mounted with Unit Designation and Mounting Height to Bottom of Thermostat (Mounting Height 48" A.F.F. Unless Noted Otherwise on Plans)**

**Thermostat in Lockbox**

**Humidistat - Wall Mounted with Unit Designation and Mounting Height to Bottom of Thermostat (Mounting Height 48" A.F.F. Unless Noted Otherwise on Plans)**

**Remote Temperature Sensor**

**Thermostat Remote Display**

**Carbon Dioxide Sensor**

**Condensate Drain Piping (CD)**

**Relocate Existing**

**Center Line**

**Connection - New/Existing**

### Mechanical Controls Notes

**Controls for Gas RTUs**

- RTUs to Have Standard Thermostat Wiring Interface
- Supply Temp, Space Temperature, Return Air Humidity, and CO2 Sensors Provided by ECI
- 0-10VDC Outside Air and Return Air Economizer Dampers to be Provided by Unit Manufacturer Controlled by ECI
- Units will be Connected to Existing City of Chattanooga City Wide Building Automation System.
- Controls to be Delta Controls by ECI - Contact Steve Green 423-629-4014 ext 104

**Gas RTUs Sequence of Operations**

- RTU-2 to Operate in Conjunction with ERV-1 at Design Outdoor Air Load During Occupied Hours
- During Economizer Mode, Wheel for ERV-1 to Deenergize, Fan to Continue Operating, Calls for Dehumidification Shall Override Economizer Cycle Until Design RH Has Been Met
- RTU-1/RTU-3/RTU-4/RTU-5/RTU-6a/b Outdoor Air Dampers to Modulate Open Upon a Call for CO2 as Needed up to Design Outdoor Air CFM
- For all RTUs, Upon a Call For Humidity Control Units to Enter Dehumidification Cycle.

**Controls for Ductless Mini Splits**

- Units to be Provided with Compatible PAC-US44CN-1 Thermostat Interface
- Supply Temp, Space Temperature, Sensors Provided by ECI
- Units will be Connected to Existing City of Chattanooga City Wide Building Automation System.
- Controls to be Delta Controls by ECI - Contact Steve Green 423-629-4014 ext 104

**Ductless Mini Splits Sequence of Operations**

- HP-1 in Conjunction with FC-1 to Maintain Space Setpoint Temperature

### Mechanical Project Notes

- All mechanical work shall be done in accordance with all state and local laws and ordinances and in a manner satisfactory to the authority having jurisdiction. It shall be the responsibility of the Mechanical contractor to obtain all required permits, inspections and pay all applicable fees.
- The mechanical contractor shall coordinate the routing of ductwork with other trades and ensure there is available space for all involved occupations before fabrication of ductwork begins. Ductwork sizes noted on mechanical plans are not clear inside dimensions.
- The mechanical contractor shall not pass ductwork, piping, or place mechanical equipment directly over any electrical panels or electrical equipment. Coordinate with the electrical contractor to maintain clearances as required by codes.
- Fire dampers are required where ductwork penetrates a one or more hour fire resistance rated assembly. (International Mechanical Code section 607 and International Building Code 716.5). Fire dampers may be omitted in 1-hour rated fire partitions where the duct penetrating the wall is not larger than 100 in<sup>2</sup>, the duct does not terminate at a wall register, steel duct material is at least 0.0217 in. Thick, and the duct is located above a ceiling (International Building Code 716.5.4 and International Mechanical Code 607.5.3). Fire dampers are also required where ducts pass through fire rated floor assemblies. Coordinate placement of all fire dampers with rated assemblies indicated on the architectural plans.
- Coordinate the location of all ceiling mounted air terminals with architectural reflected ceiling plans.
- The mechanical contractor shall furnish all labor, materials, equipment, services and incidentals required for a complete and operating facility.
- All mechanical equipment shall be provided complete with electrical start, protective devices, and interlocks required for complete operable system.
- Mechanical equipment placement shall allow for full service/maintenance as recommended by the equipment manufacturer.
- Color and finish of air terminals, louvers, and wall caps shall be coordinated with the architect.
- The mechanical contractor is responsible for the testing, adjusting and balancing of all air systems.
- All ductwork shall be connected to mechanical equipment with flexible U.L. listed connectors.
- Outdoor air intakes shall not be located within 10'-0" of exhaust/relief louvers, wall caps, plumbing vents, or roof caps.
- Units with air flows above 2,000 cfm must have a duct mounted smoke detector mounted in the supply duct downstream of all filters (2002 NFPA 90a 6.4.2.1). Smoke detectors are also required in the return air stream prior to any exhausting from the building or mixing with outdoor air unless all portions of the building served by the air distribution system are protected by area smoke detectors connected to a fire alarm system in accordance with the International fire code (International Mechanical Code 606.2.1 and exception). These smoke detectors must be wired to a fire alarm system when one is provided in a constantly attended location for supervisory signals (International Mechanical Code 606.4.1 and 2002 NFPA 90a 6.4.4). Local ordinances may have more stringent requirements. Coordinate with electrical contractor. See electrical drawings for locations.
- Insulating materials shall have a flame spread index not more than 25 and a smoke-developed index not exceeding 450 in accordance with ASTM E 84.
- The mechanical contractor shall provide access panels in non-lay-in type ceiling (example gypsum ceilings) for all mechanical valves and dampers.
- Where ductwork is visible through registers and grilles, the mechanical contractor shall prime and paint the interior of the ductwork black.
- The mechanical contractor shall size refrigerant line sets in accordance with the equipment manufacturer's guidelines.
- Furnish mechanical as-built drawings as well as Operations & Maintenance manuals for all mechanical systems to the owner within 90 days of system acceptance by the authority having jurisdiction.

**HVAC Submittals**

The mechanical contractor shall provide the HVAC equipment submittals with an electrical summary sheet for use by the electrical engineer. The sheet shall indicate voltage, phase, MCA, and MOCP for all HVAC equipment submitted. Electrical values that conflict with information provided in the HVAC equipment submittals is sole responsibility of the mechanical contractor.

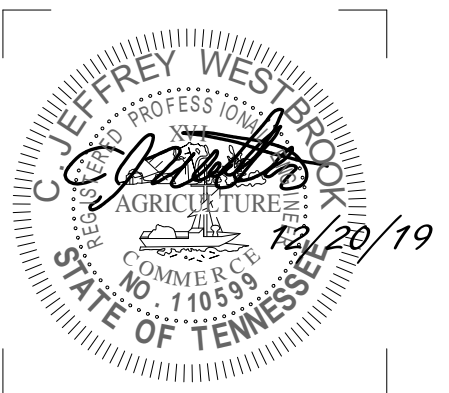
Mechanical Sheet List		
Sheet Number	Sheet Name	Current Revision Description
M1.1	MECHANICAL FLOOR PLAN	
M3.1	MECHANICAL SECTIONS	
M4.1	MECHANICAL ROOF PLAN	ADDENDUM 10
M8.1	MECHANICAL SCHEDULES & NOTES	ADDENDUM 10
M8.2	MECHANICAL DETAILS	

Design Conditions	
<b>Outdoor</b>	
Design Data Location	Chattanooga, TN
Heating db (99.6%)	19.6
Cooling db (0.4%)	95.0
Mean Coincident wb (0.4%)	74.5
Weather Station	Chattanooga AP, TN, USA (WMO:723240)
Current Energy Code	2012 IECC
Climate Zone	4A
<b>Indoor</b>	
Heating db	70
Cooling db	74
Cooling Relative Humidity	55% (Maximum)

db: Dry Bulb °F  
wb: Wet Bulb °F  
Note: Outdoor conditions based upon ASHRAE Climatic Design Conditions 2017.





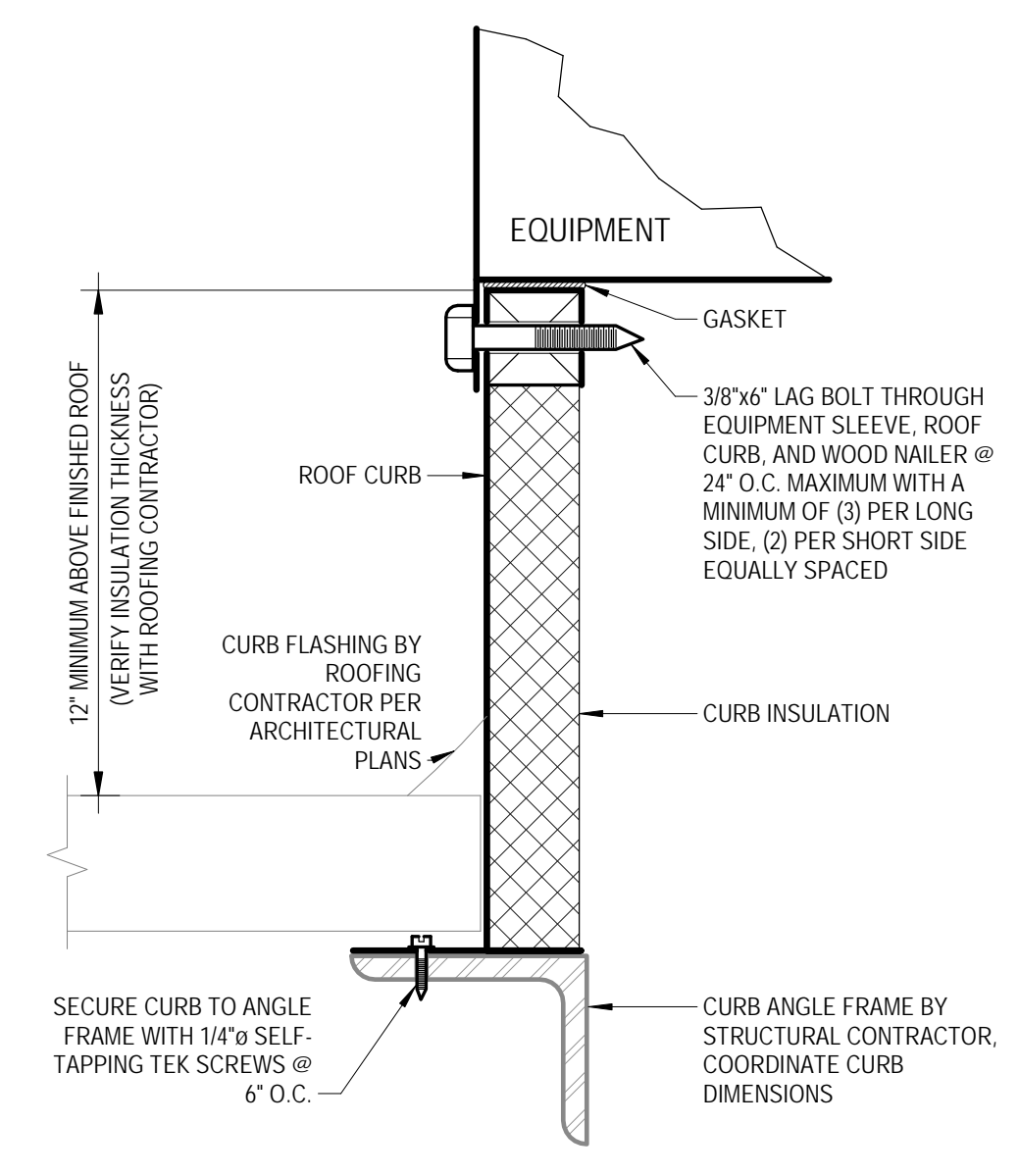


ISSUE DATES  
 INITIAL ISSUE 12/20/19

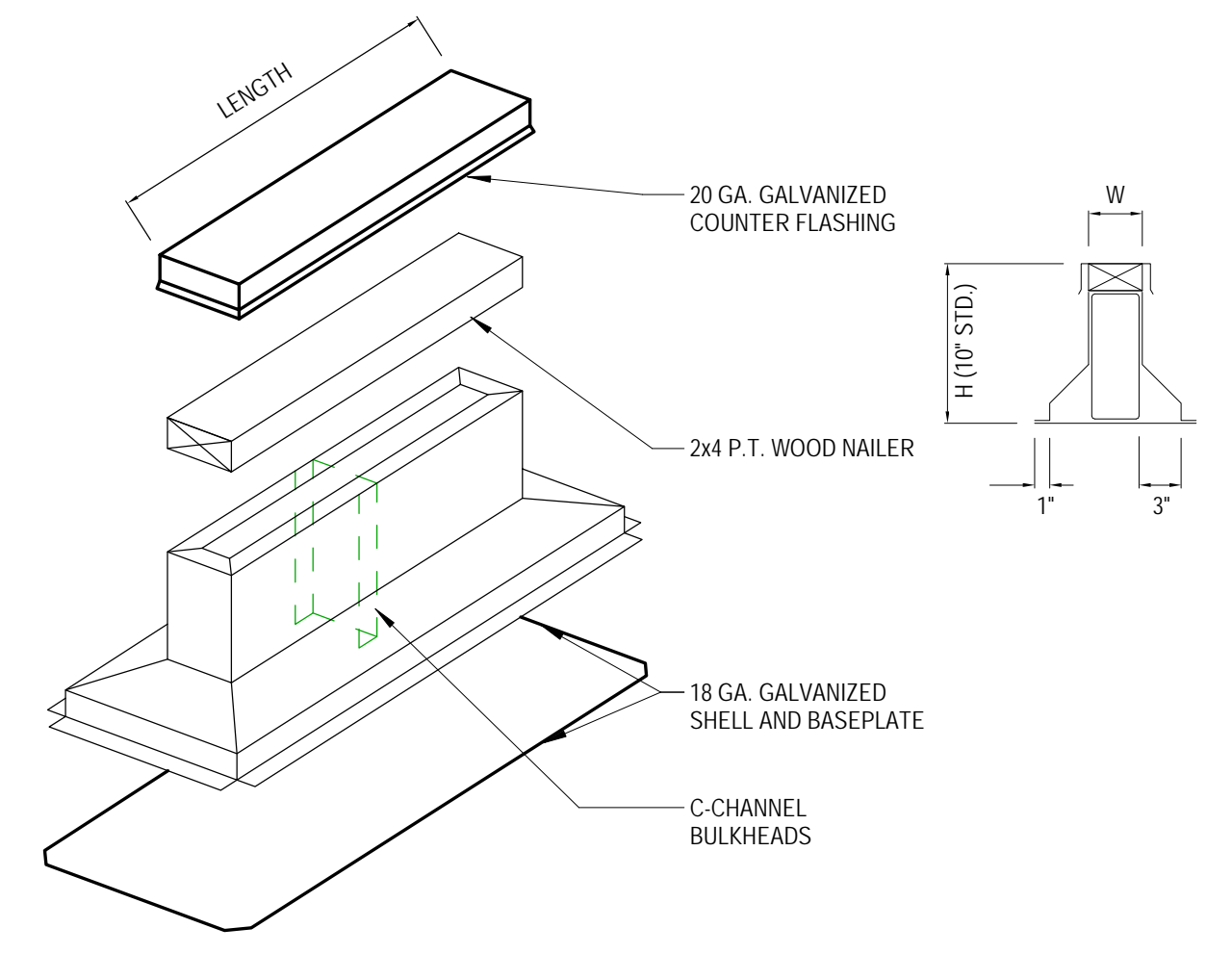
JOB NO. 18-072 D'WN CKD  
 BRF/HSW CJW



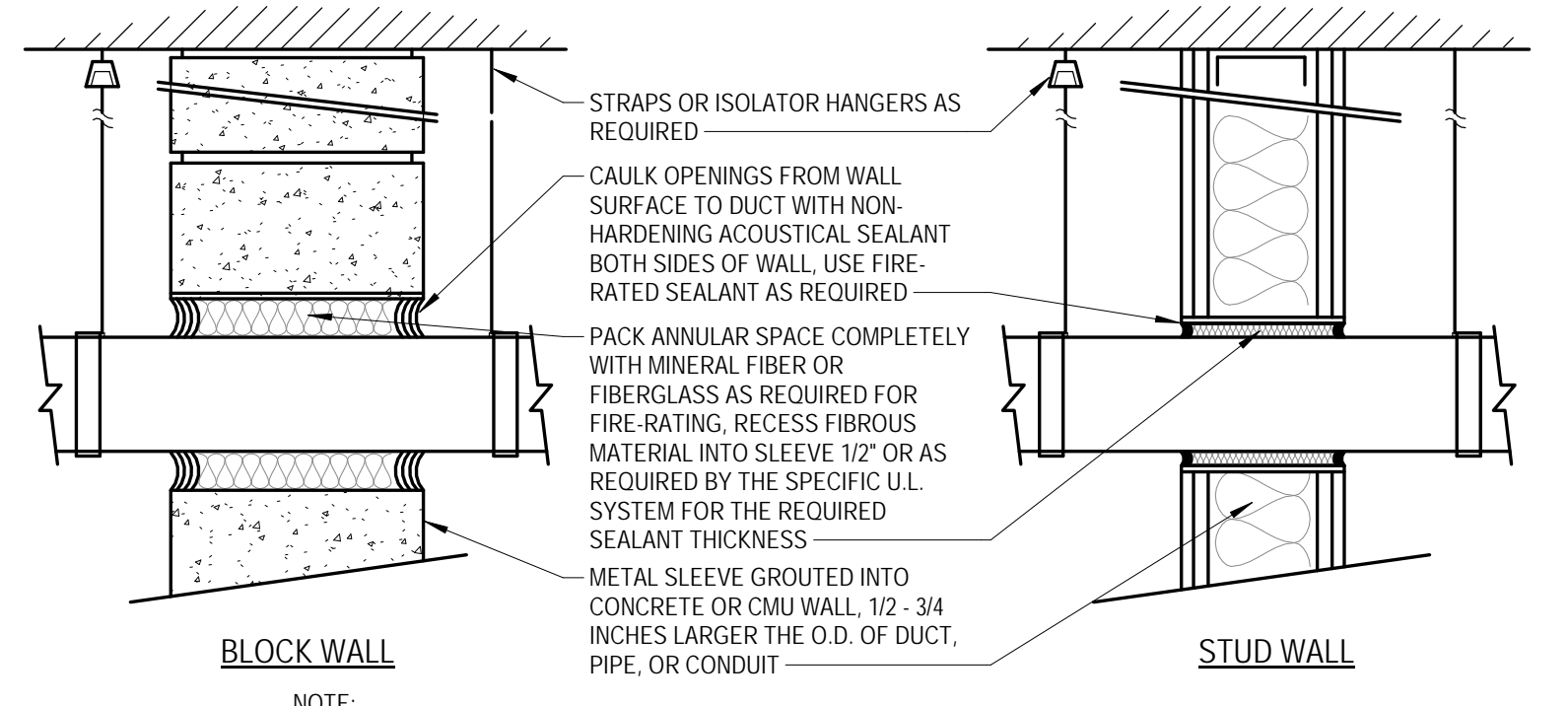
**MA & A** March Adams & Associates Consulting Engineers  
 310 Dodds Ave.  
 P.O. Box 3689  
 Chattanooga, Tennessee 37404  
 PH: (423)698-6675  
 MAA #: 19211



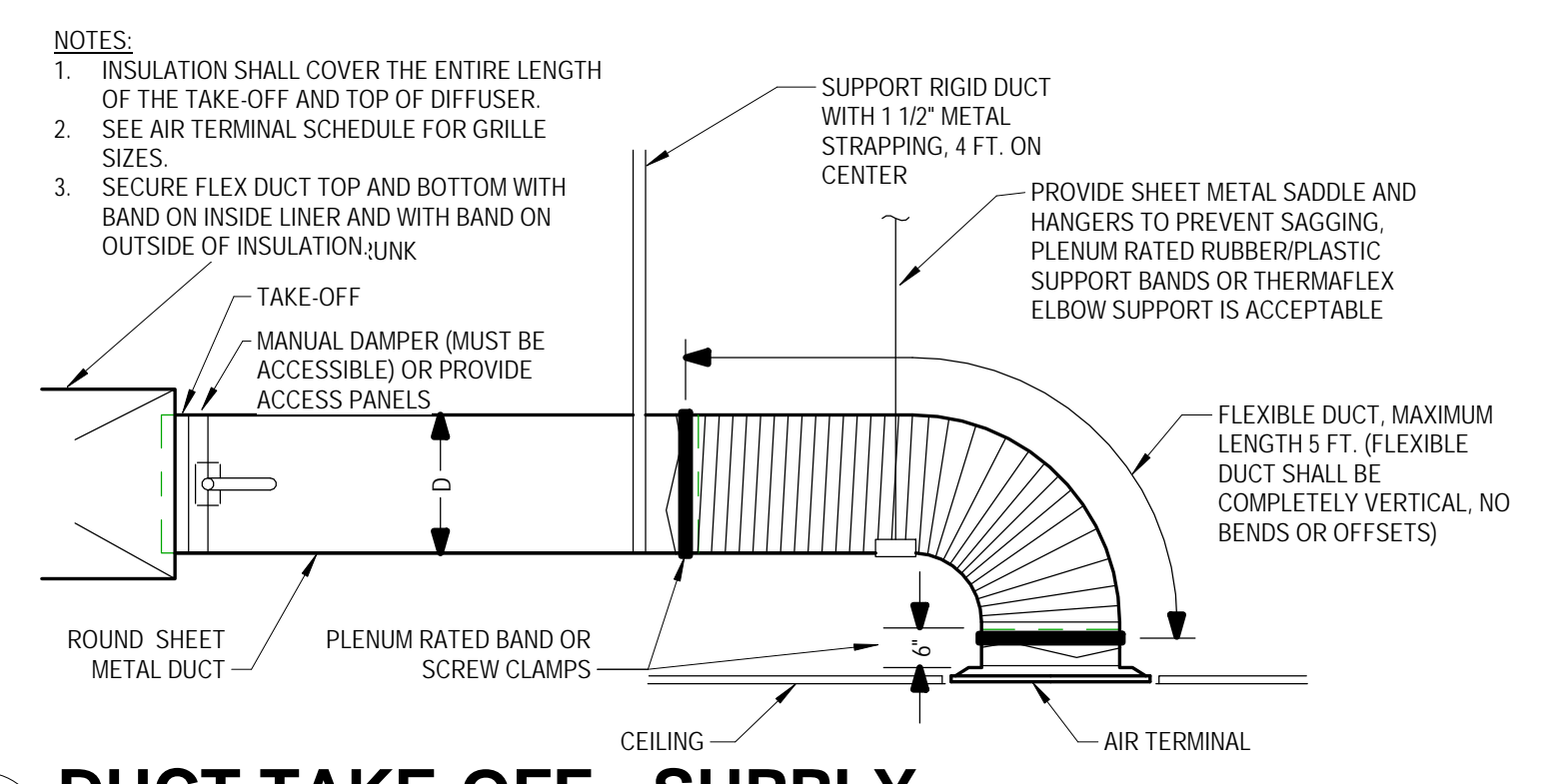
**4 ROOF CURB**  
 SCALE: NTS



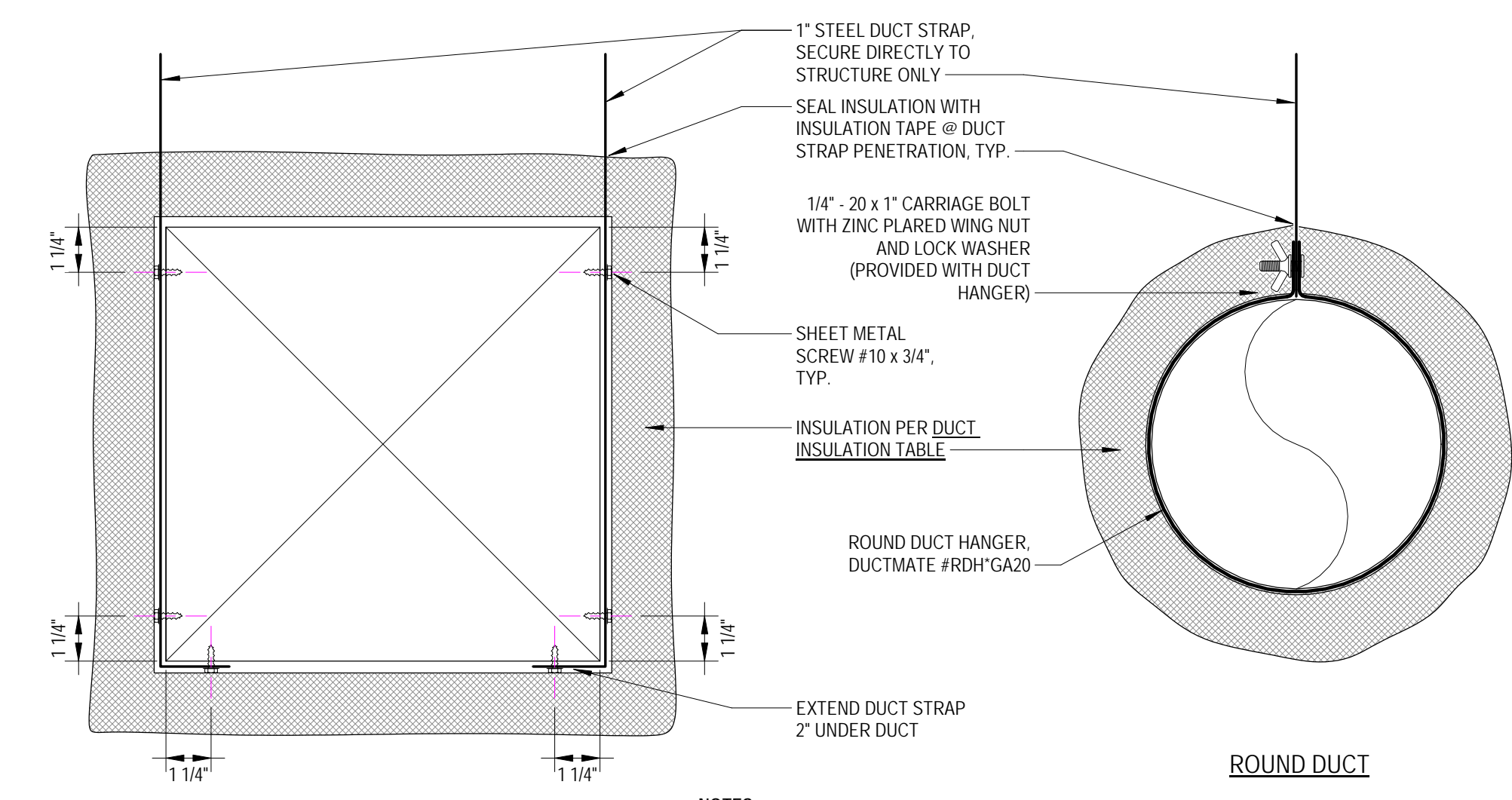
**3 ROOF EQUIPMENT CURB**  
 SCALE: NTS



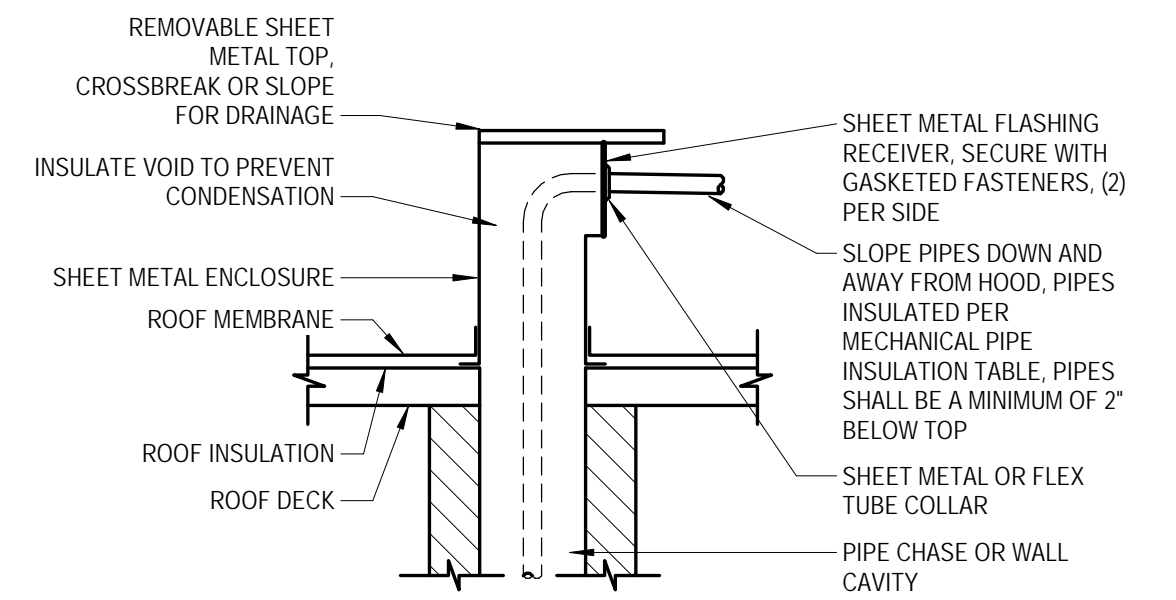
**2 DUCT WALL PENETRATION**  
 SCALE: NTS



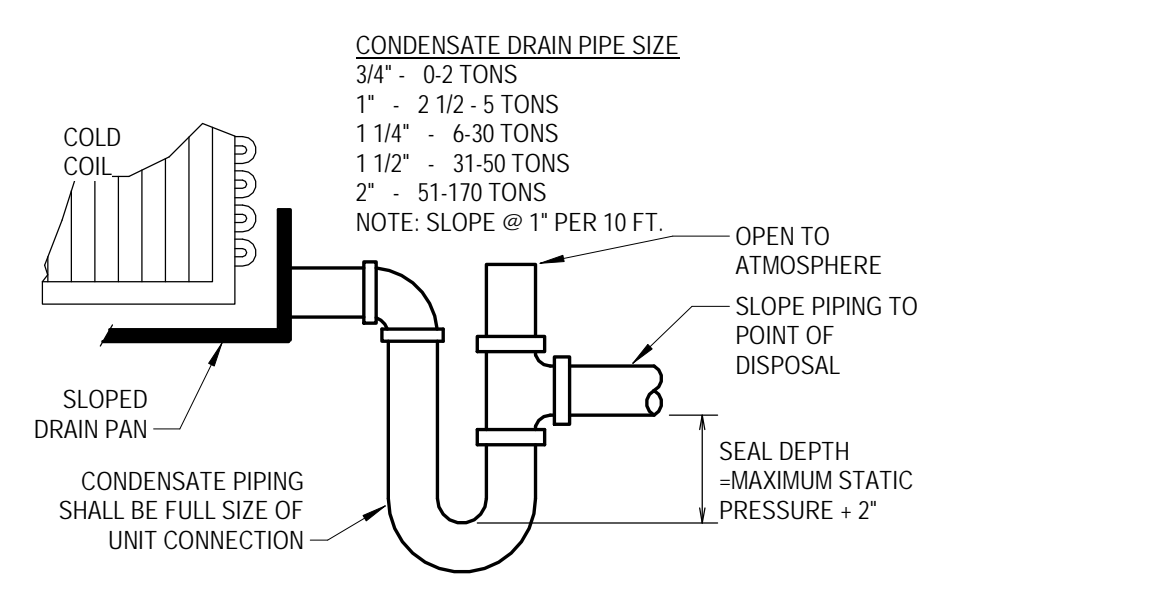
**1 DUCT TAKE-OFF - SUPPLY**  
 SCALE: NTS



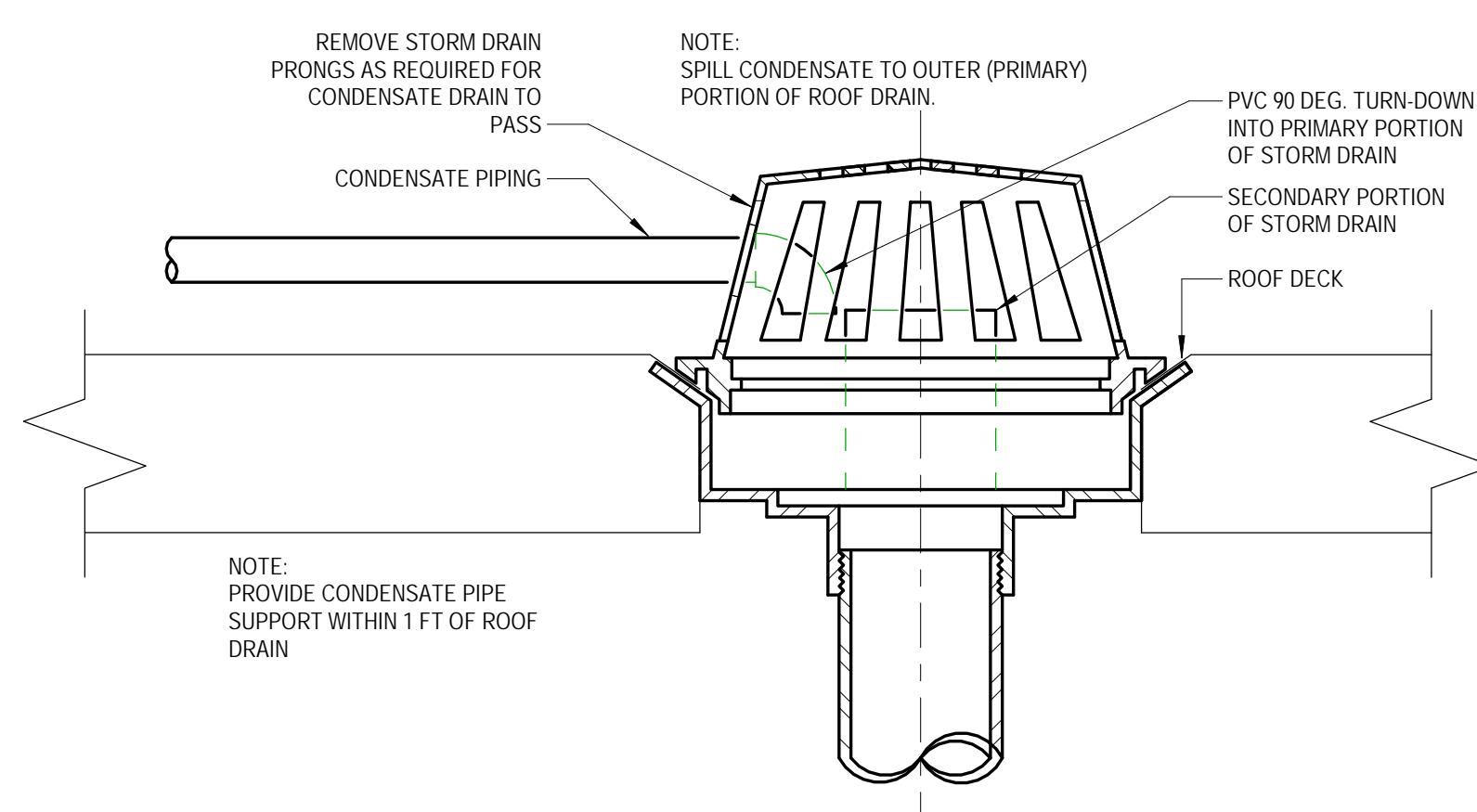
**8 DUCT HANGERS**  
 SCALE: NTS



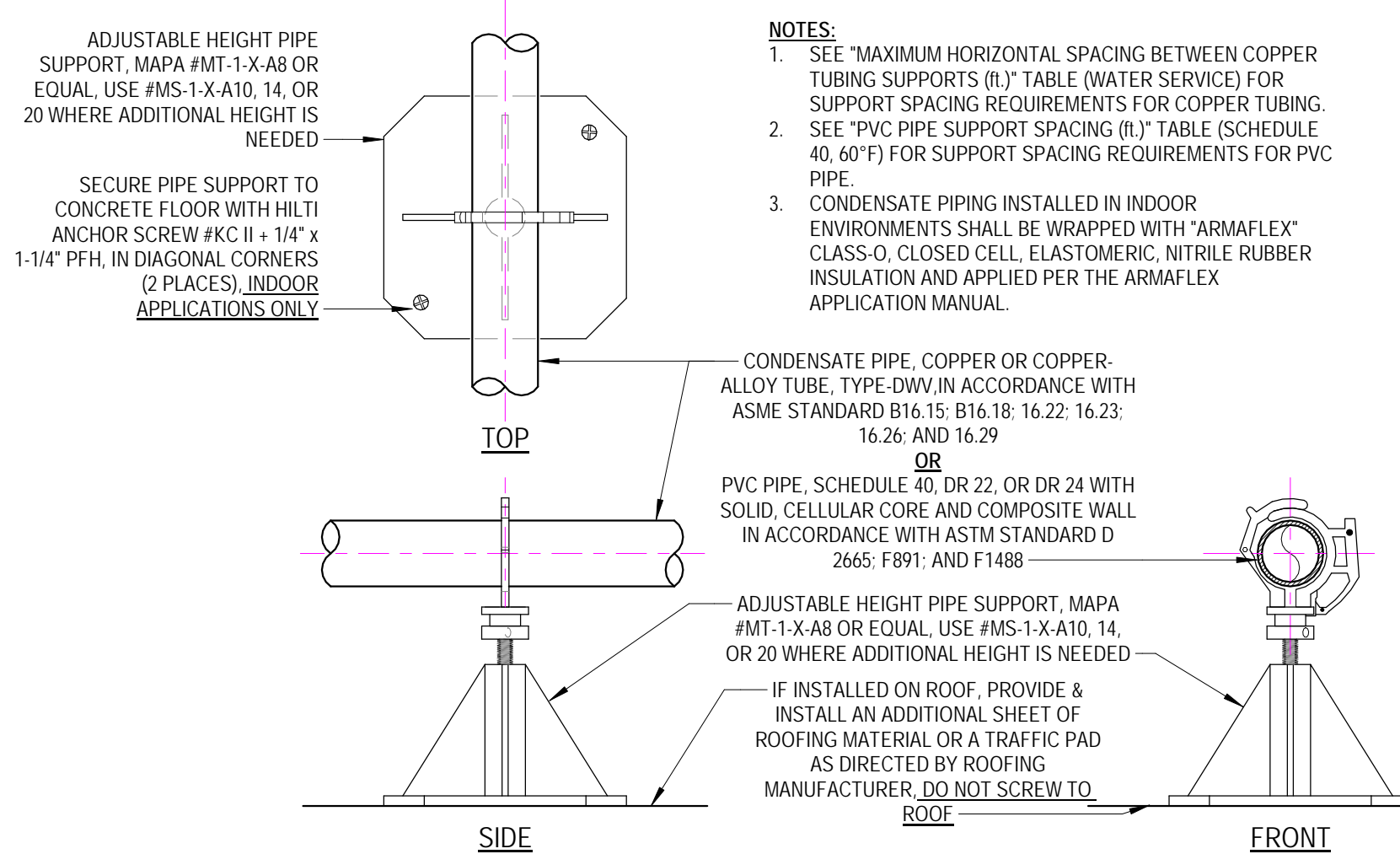
**6 PIPING ROOF PENETRATION**  
 SCALE: NTS



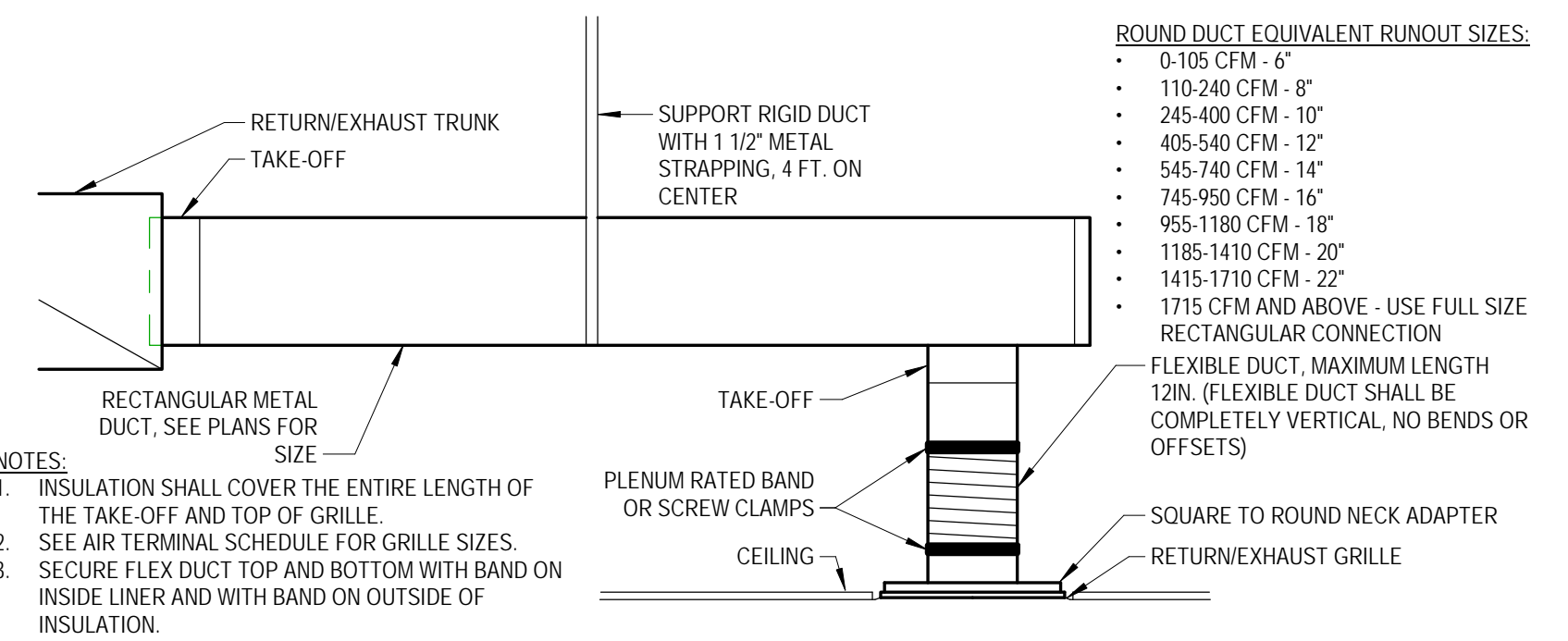
**7 COIL CONDENSATE DRAIN PIPING**  
 SCALE: NTS



**9 CONDENSATE AT ROOF DRAIN**  
 SCALE: NTS



**10 HVAC - CONDENSATE PIPING SUPPORT**  
 SCALE: NTS



**5 DUCT TAKE-OFF - RETURN/EXHAUST**  
 SCALE: NTS

DUCT INSULATION SCHEDULE			
SERVICE	LOCATION	R-VALUE	DESCRIPTION
RECTANGULAR / ROUND - SUPPLY, RETURN, OUTSIDE AIR	INTERIOR / CONCEALED	R-6.0 MINIMUM	EXTERNAL DUCT INSULATION - WRAP: OWENS-CORNING SOFTR DUCT WRAP INSULATION TYPE 75, 2.2\"/>
ROUND - SUPPLY, RETURN, OUTSIDE AIR	INTERIOR / EXPOSED	R-6.0 MINIMUM	PAINTABLE DOUBLE WALL SPIRAL. FINISH TO BE ESTABLISHED BY OWNER / ARCHITECT.
RECTANGULAR - SUPPLY, RETURN, OUTSIDE AIR	INTERIOR / EXPOSED	R-6.0 MINIMUM	INTERNALLY ACOUSTICAL LINER CERTAIN-TEED (OR EQUAL) \"/>
RECTANGULAR / ROUND - SUPPLY, RETURN, OUTSIDE AIR	EXTERIOR	R-8.0 MINIMUM	FIRST 15 FT FROM MECHANICAL EQUIPMENT SHALL HAVE AN INTERNAL ACOUSTICAL LINER, CERTAIN-TEED (OR EQUAL) \"/>
DIFFUSER NECKS, BOOTS AND BOXES FOR GRILLES AND REGISTERS	INTERIOR / CONCEALED	R-6.8 MINIMUM	EXTERNAL DUCT INSULATION - WRAP: OWENS-CORNING SOFTR DUCT WRAP INSULATION TYPE 75, 2.2\"/>
FLEXIBLE DUCTWORK	INTERIOR / CONCEALED	R-6.0 MINIMUM	INSULATED FLEXIBLE AIR DUCT WITH 2\", 0.76 LB. MINIMUM DENSITY FIBERGLASS BLANKET AND FIBERGLASS SCRIM REINFORCED ALUMINIZED POLYESTER FILM VAPOR BARRIER.

HYDRONIC PIPE INSULATION SCHEDULE			
SERVICE	LOCATION	R-VALUE	DESCRIPTION
REFRIGERATION PIPING	INTERIOR / EXTERIOR	---	SUCTION LINES- 3/4 INCH AEROFLEX AC. LIQUID LINES 1/2 INCH AEROFLEX AC. AEROFLEX AC PIPE INSULATION.



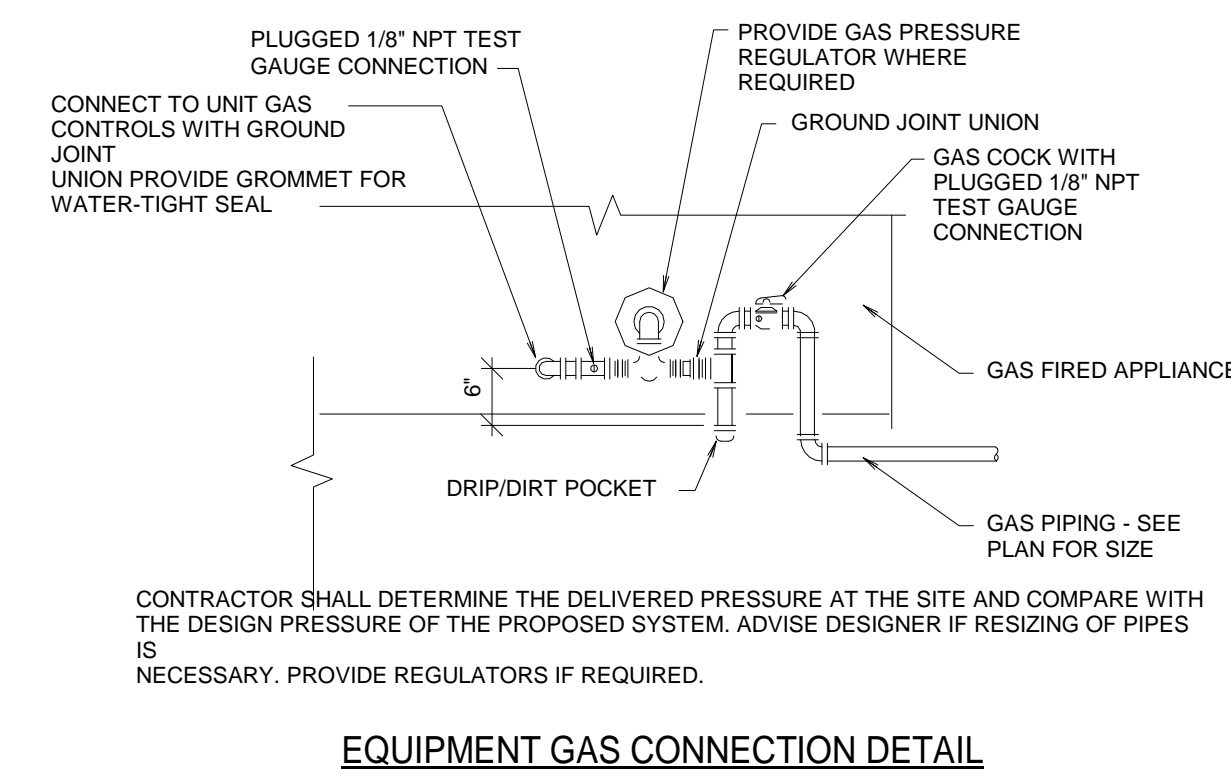
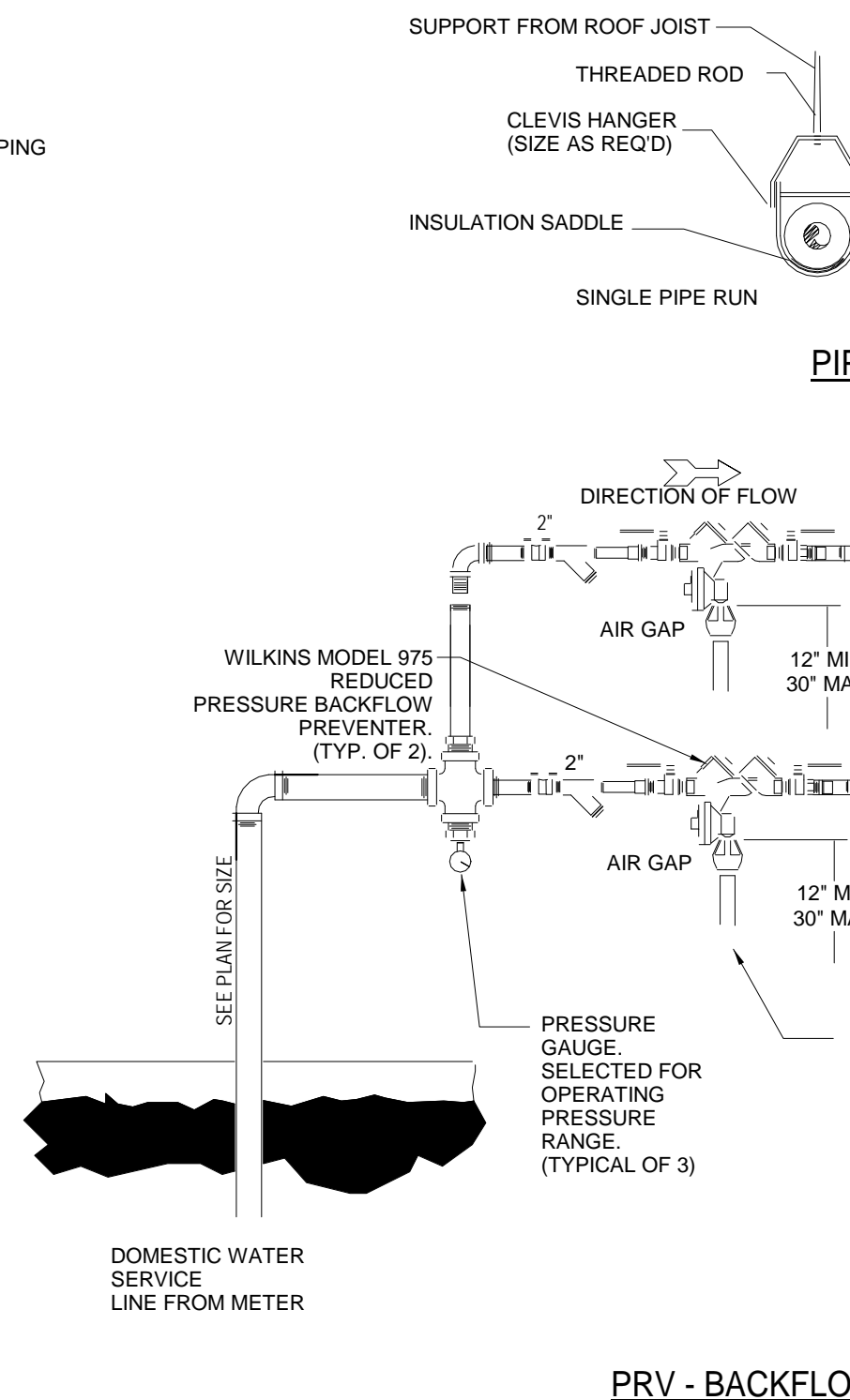
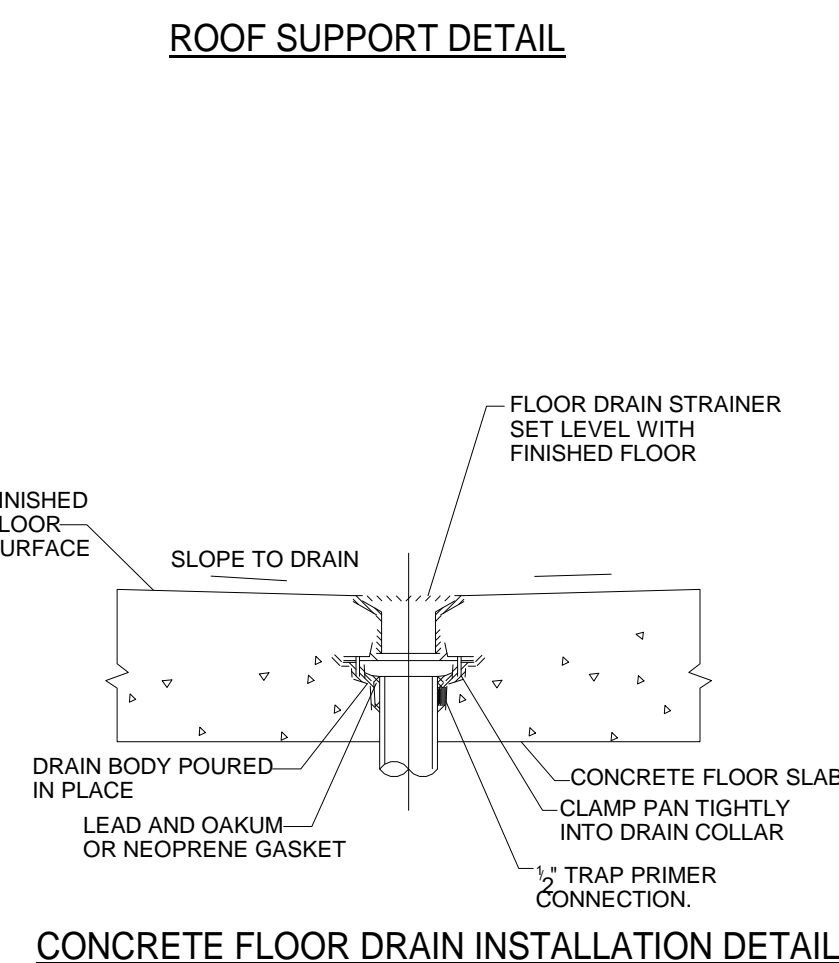
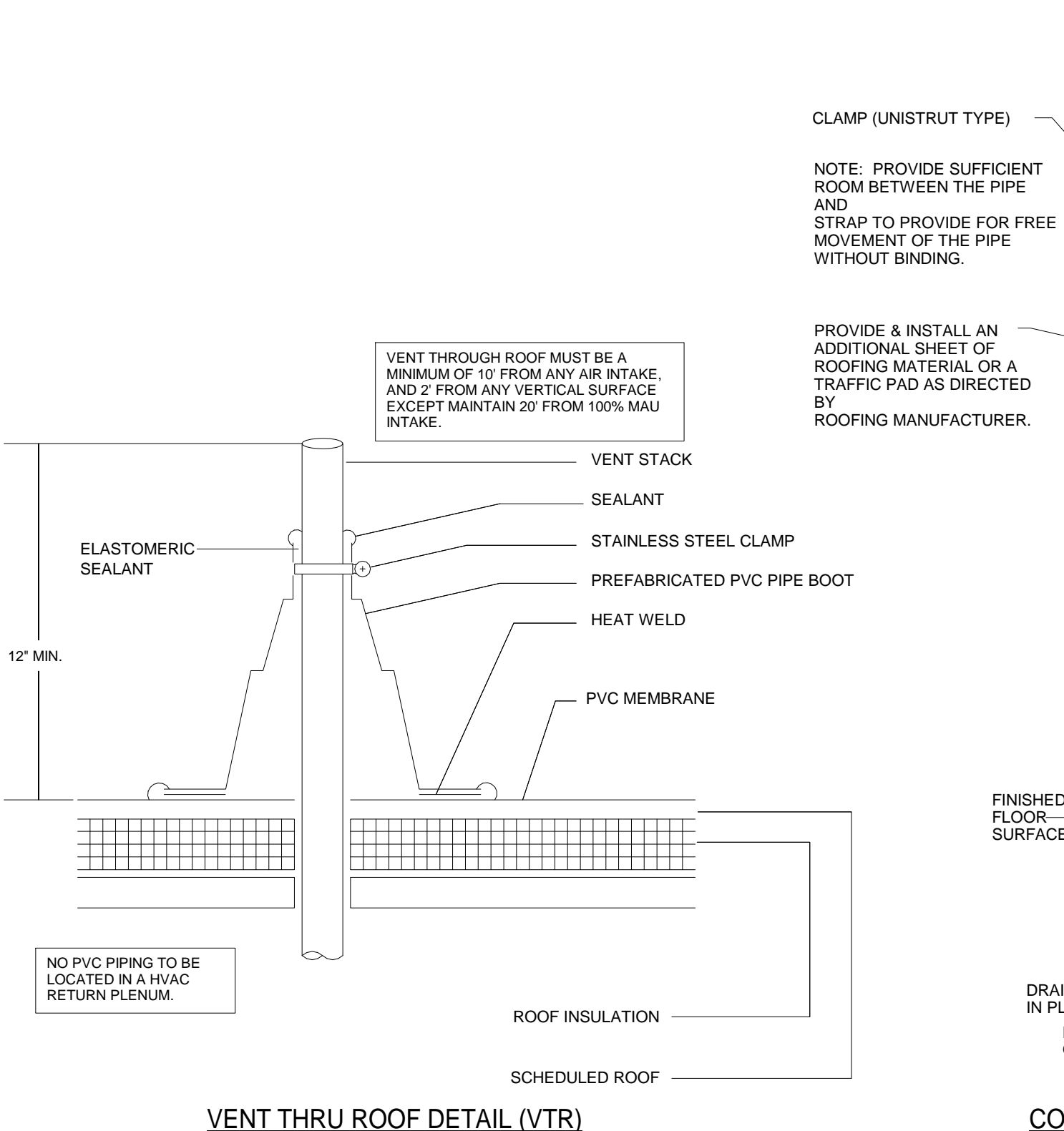
DRAINAGE FIXTURE UNITS			
FIXTURE TYPE	FIXTURE UNIT VALUE	NO. OF FIXTURES	TOTAL VALUE
DRINKING FOUNTAIN	1/2	2	1
LAVATORY	1	4	4
URINAL	2	1	2
MOP SINK (3" TRAP)	5	1	5
DISHWASHER	2	1	2
FLOOR DRAIN	2	1	2
WATER CLOSET	4	8	32
KITCHEN SINK	2	1	2
BASED ON 2012 IPC		DRAINAGE FIXTURE UNITS= 50 BUILDING DRAIN PIPE SIZE= 4"	

WATER SUPPLY FIXTURE UNITS					
FIXTURE	COLD	HOT	TOTAL	NO. OF FIXTURES	TOTAL VALUE
DRINKING FOUNTAIN	0.25	--	0.25	2	0.5
LAVATORY	1.5	1.5	2.0	4	8
URINAL	5.0	--	5.0	1	5
MOP SINK (3" TRAP)	2.3	2.25	3.0	1	3
DISHWASHER	--	1.4	1.4	1	1.4
WATER CLOSET (PUBLIC, FLUSH VALVE)	10.0	--	10.0	8	80
WASHING MACHINE (15 LB.)	3.0	3.0	4.0	2	8
KITCHEN SINK	3.0	3.0	4.0	1	4
BASED ON 2012 IPC		WATER SUPPLY FIXTURE UNITS= 109.9 DOMESTIC WATER SUPPLY PIPE SIZE= 2" GALLONS PER MINUTE= 71 gpm			

WATER HAMMER ARRESTER SCHEDULE					
P.D.I. SYMBOL	MANUFACTURER	MODEL NO.	CONNECTION SIZE	FIXTURE UNIT RATING	REMARKS
"A"	ZURN	Z1700-100	3/4"	1-11	THREADED NIPPLE CONNECTION
"B"	ZURN	Z1700-200	1"	12-32	THREADED NIPPLE CONNECTION
"C"	ZURN	Z1700-300	1"	33-60	THREADED NIPPLE CONNECTION

**RULE 1:**  
THE PREFERRED PLACEMENT LOCATION IS AT THE END OF THE BRANCH LINE BETWEEN THE LAST TWO FIXTURES IN A BRANCH LESS THAN 20 FEET.

**RULE 2:**  
IN LINES THAT EXCEED 20 FT. IN LENGTH, THE SUM OF THE FIXTURE UNIT RATINGS OF UNITS (X) & (Y) SHALL BE EQUAL TO OR GREATER THAN THE DEMAND OF BRANCH.



PIPE SCHEDULE	
DWV	PVC
DOMESTIC WATER PIPING	ALL UNDERGROUND DOMESTIC WATER PIPING SHALL BE TYPE K COPPER PIPE.
DOMESTIC WATER PIPING	ABOVE GROUND DOMESTIC WATER PIPING 2" AND LARGER SHALL BE TYPE L COPPER PIPE OR AQUATHERM BY WIRSBO AT CONTRACTOR'S OPTION.
DOMESTIC WATER PIPING	ABOVE GROUND DOMESTIC WATER PIPING SMALLER THAN 2" SHALL BE TYPE L COPPER PIPE, OR PEX-A. CONTRACTOR SHALL OBTAIN APPROVAL FROM LOCAL JURISDICTION AND WRITTEN APPROVAL FROM OWNER PRIOR TO BIDDING. PEX-A REQUIRES A 25 YEAR WARRANTY. PVC AND CPVC WILL NOT BE ACCEPTED.
STORM WATER PIPING	CAST IRON
NATURAL GAS	BLACK STEEL PIPING

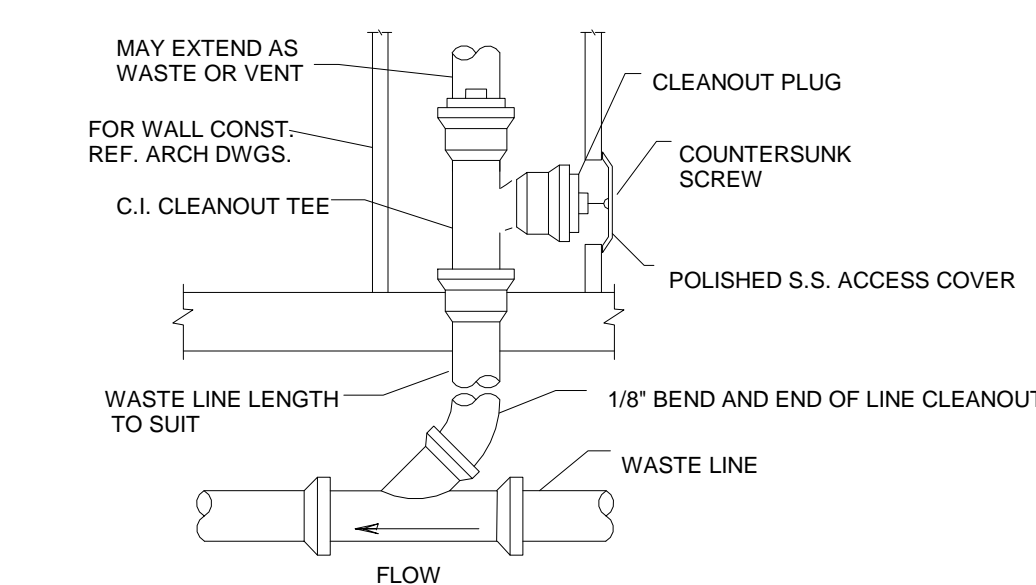
1. THE BASIS OF DESIGN FOR DOMESTIC WATER PIPE IS COPPER PIPE.
2. OTHER PIPE TYPES (AS LISTED ABOVE) MAY BE SUBSTITUTED FOR COPPER AT CONTRACTOR'S DISCRETION.
3. IF SUBSTITUTED PIPE IS PROVIDED THE CONTRACTOR SHALL HAVE THE MANUFACTURER RESIZE ALL PIPE TO EQUAL OR EXCEED THE FLOW VOLUME OF COPPER PIPE. THE PIPE SIZING MUST BE IN STRICT COMPLIANCE WITH MANUFACTURER'S PUBLISHED REQUIREMENTS.
4. COMPLY WITH ASTM F876/F877, NSF 61, 500% CHLORINE RESISTANCE RATING AND 60 DAY MIN. UV RATING.
5. PIPING MUST BE SECURELY ANCHORED TO PREVENT MOVEMENT AND ENSURE NO PIPE IS WITHIN 6" OF ANY HEAT SOURCE: LIKE LIGHT FIXTURES.
6. FINAL CONNECTIONS MUST BE ANCHORED SO STOPS DO NOT MOVE.

PLUMBING FIXTURE SCHEDULE						
MARK	MANUFACTURER	MODEL	DESCRIPTION	CONNECTIONS		
				CW	HW	WASTE VENT
DF1	Elkay Manufacturing	VRCTLR8WSK	Mechanical pushbar actuated water cooler			
DS	Zurn Industries	Z-199-NH8	Downspout with Removable Screen (No Hub)			
FD1	ZURN	Z415-6S-P	6" ZURN FLOOR DRAIN WITH "TYPE S" SQUARE STRAINER AND 1/2" TRAP PRIMER CONNECTION.		3"	2"
FFHB	Zurn Industries, LLC	Z1320XL	Ecolotrol Ceramic Disc Wall Hydrant, Encased, Non-Freeze, Anti-Siphon, Automatic Draining			
GI	Green Turtle Technologies	500-4 SM	500 GALLON FIBERGLASS GREASE INTERCEPTOR			
KS1	Elkay Manufacturing	LRAD03322	SEAMLESS TYPE 304 18 GAUGE STAINLESS STEEL DOUBLE COMPARTMENT COUNTERTOP SINK, 33 INCHES X 22 INCHES X 8 INCHES DEEP WITH TWO HOLE PUNCH 4 INCH ON CENTER AND CENTER DRAIN, SINGLE LEVER HANDLE, DECK MOUNTED FAUCET WITH 5" GOOSENECK SPUT. ELKAY FAUCET MODEL NUMBER LK8062N5T4			
L1	AMERICAN STANDARD	0356.421	21" X 18" ADA WALL HUNG SINK, CHICAGO FAUCETS MODEL NUMBER 3500-E2805ABC	1/2"	1/2"	2"
L2	AMERICAN STANDARD	0419.444	AMERICAN STANDARD "CADET" OVAL COUNTERTOP LAVATORY WITH SYMMON'S "ULTRA-SENSE" SENSOR ACTIVATED FAUCET WITH 0.5 GPM FLOW RESTRICTOR #S-6080-FR, (2) ZURN Z8804 STANDARD ANGLE STOPS, ZURN Z8743 STRAINER ZURN Z8700 P-TRAP AND ZURN ZN1070 MIXING VALVE TO BE SET IN FIELD BETWEEN 90"-105". VERIFY LAVATORY COLOR AND FAUCET FINISH WITH ARCHITECT.	1/2"	1/2"	2"
MSB	FIAT	MSB 2424	MOLDED-STONE SERVICE SINK SINGLE SQUARE COMPARTMENT UNIT 24 INCHES X 24 INCHES X 10 INCHES DEEP FLOOR MOUNTED WITH WALL FAUCET FIAT MODEL NUMBER 830-AA FOR MOP SINK WITH MOP HANGER, 3" QUICK DRAIN CONNECTOR HOSE AND HOSE BRACKET.			
RFD	Zurn Industries, LLC	Z163	15 Inch Diameter Combination Main Roof and Overflow Drain with Low Silhouette Domes and Double Top Set Deck Plate			
U1	AMERICAN STANDARD	6501.01	AMERICAN STANDARD "WASHBROOK" WALL HUNG URINAL (3/4") WITH ZURN "AQUAFUSH" Z6003-YB-WS-1 FLUSH VALVE AND ZURN Z-1222 PLATE TYPE SYSTEM URINAL CARRIER WITH BEARING PLATE. VERIFY COLORS WITH ARCHITECT.	3/4"	3"	2"
W1	AMERICAN STANDARD	2234.015	"AMERICAN STANDARD "MADERA" FLUSH VALVE TOILET WITH ZURN "AQUAVANTAGE" Z6000AV-WS1 1.6 GPF FLUSH VALVE AND OLSONITE #9555 COMMERCIAL SEAT. VERIFY COLORS WITH ARCHITECT.	1"	3"	2"
WCO	ZURN	Z-1441	ZURN "LEVEL-TROL" NICKEL BRONZE WALL CLEANOUT.			
YCO	ZURN	Z-1400	ZURN "LEVEL-TROL" CAST IRON YARD CLEANOUT.			

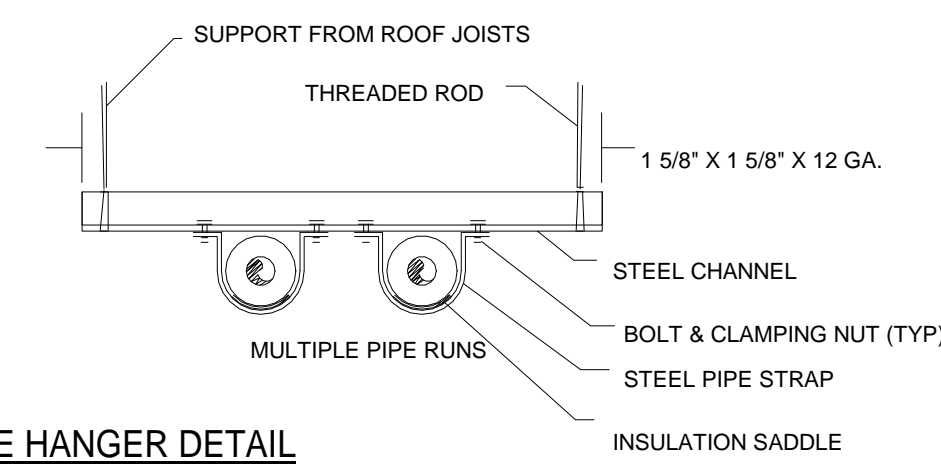
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATING PIPING (HWR)
	SOIL/WASTE PIPING
	VENT PIPING (V)
	STORM DRAIN PIPING (SD)
	GAS PIPING (G)
	PIPE RISE
	PIPE DROP
	CONCENTRIC TRANSITION
	SHUT-OFF VALVE
	SOLENOID ACTUATED VALVE
	CHECK VALVE
	DIELECTRIC UNION
	GAS COCK
	GAS METER
	HOSE BIBB OR WALL HYDRANT IN BOX
	CONNECTION TO CIVIL

Mechanical Equipment Plumbing Gas Schedule				
Mark	Manufacturer	Model	Gas Input	
RTU-1	Trane	YHC060E3	100000 Btu/h	
RTU-2	Trane	YHC074F3	100000 Btu/h	
RTU-3	Trane	YHC074F3	100000 Btu/h	
RTU-4	Trane	YHC074F3	100000 Btu/h	
RTU-5	Trane	YHC072F3	120000 Btu/h	
RTU-6A	Trane	YHH210C3RL	350000 Btu/h	
RTU-6B	Trane	YHH210C3RL	350000 Btu/h	
WH1	PVI Industries, LLC	20 L 100A-GCL	199000 Btu/h	
TOTAL BTU = 1,419,000			FUEL GAS SUPPLY PIPE SIZE= 1-1/4"	

BASED ON 2 PSIG AND 300 FT. DEVELOPED LENGTH



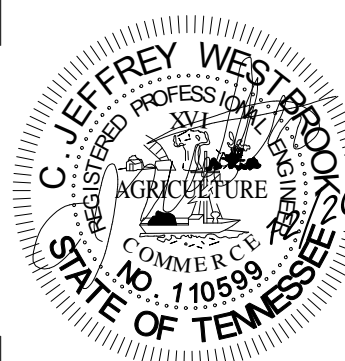
WALL CLEANOUTS DETAIL



PIPE HANGER DETAIL

PLUMBING GENERAL NOTES:

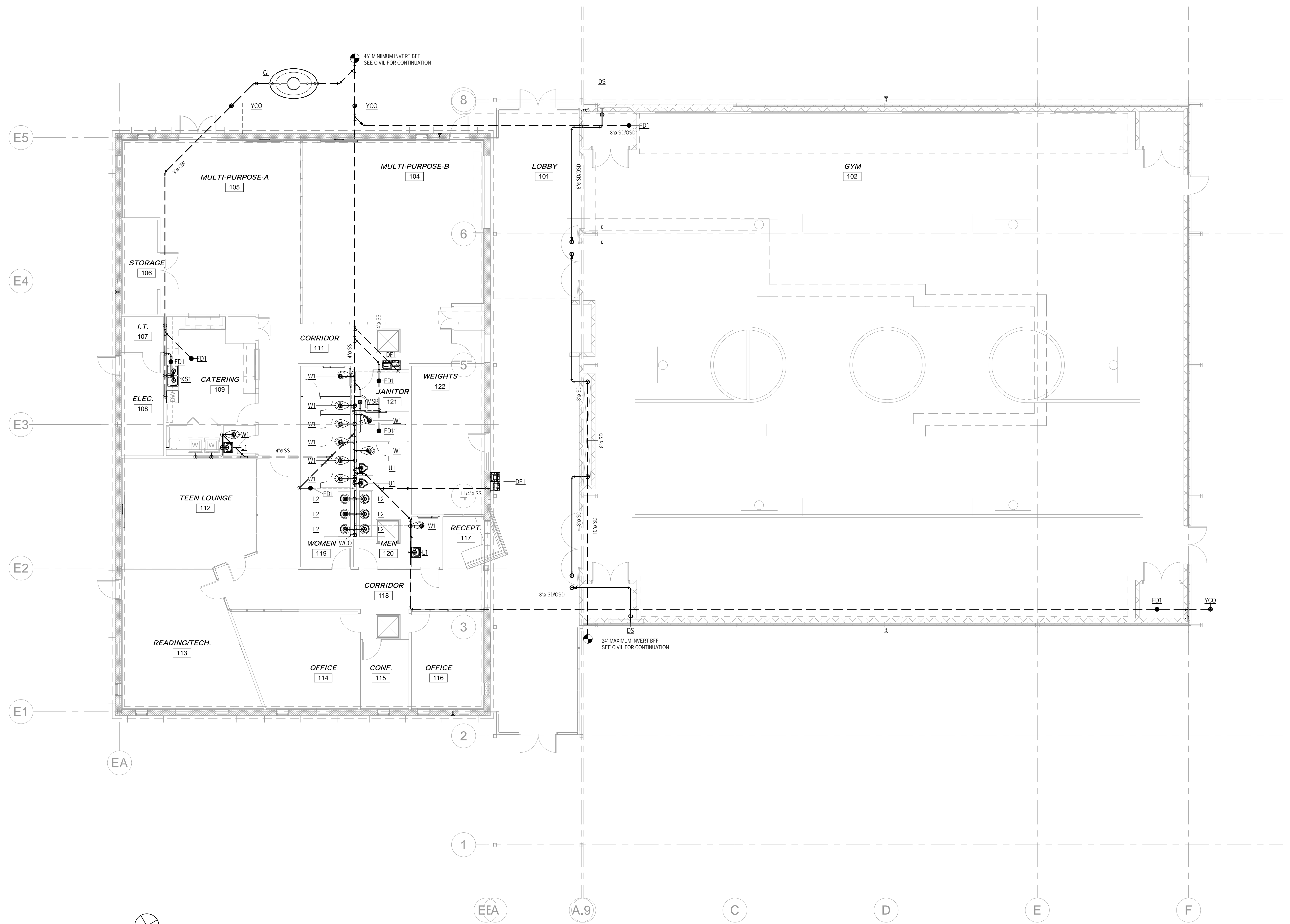
1. THESE DRAWINGS HAVE BEEN DEVELOPED FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL FIELD CONDITIONS, DIMENSIONS, CLEARANCES, LOCATION OF EXISTING UTILITIES, ETC. PRIOR TO BIDDING, FABRICATION, OR INSTALLATION. DO NOT SCALE FROM THESE DRAWINGS. COORDINATE ALL STUB-UPS AND CONNECTIONS WITH MANUFACTURER INSTALLATION DATA.
2. COORDINATE PLUMBING INSTALLATION AMONG TRADES TO AVOID INTERFERENCES.
3. ALL COLD, HOT AND RECIRCULATING WATER PIPING SHALL BE INSULATED W/CLOSED CELL INSULATION. INSULATE ALL ABOVE GROUND DOMESTIC WATER PER SPECIFICATIONS SECTION 15090.
4. THE CONTRACTOR SHALL FURNISH ALL LABOR, INSTALL ALL MATERIAL AND EQUIPMENT AND INCLUDE SERVICES AND INCIDENTALS TO THE INSTALLATION OF WORK INVOLVED FOR A COMPLETE AND OPERATING FACILITY.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS, AND PAY ALL FEES REQUIRED FOR THIS JOB.
7. THE PIPING SYSTEM SHALL BE ARRANGED SO AS TO PREVENT WATER HAMMER. EACH ISOLATED FIXTURE SHALL HAVE A WATER HAMMER ARRESTOR ON THE WATER CONNECTION. ALL GROUPS OF FIXTURES SHALL CONNECT TO A WATER BRANCH WHICH SHALL END WITH A FULL SIZE WATER HAMMER ARRESTOR.
8. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STANDARD 1/2"x3/8" COMPRESSION ANGLE STOPS ON ALL WATER LINES UNLESS ANOTHER TYPE OF VALVE IS SPECIFIED.
9. ALL WASTE PIPING ABOVE GRADE SHALL BE APPROVED CAST IRON OR PVC SOIL PIPE, AND ALL VENT PIPING ABOVE GRADE SHALL BE "PVC" OR "ABS". CAST IRON ONLY IN PLENUM RETURN SPACES.
10. ALL VENTS THROUGH ROOF (VTR) SHALL EXTEND A MINIMUM OF 12" ABOVE ROOF AND BE MAINTAINED A MINIMUM OF 10'-0" FROM ALL OUTSIDE AIR INTAKES, EXCEPT 20' FROM 100% MAU INTAKES.
11. ALL ROOF PENETRATIONS FOR PLUMBING PIPING SHALL BE MADE IN ACCORDANCE WITH ROOF SYSTEM MANUFACTURER GUIDELINES. COORDINATE WITH ARCHITECTURAL.
12. COPPER PIPING JOINTS SHALL BE SOLDERED USING SOLDER FILLER METAL (ASTM B-32) 95-5 TIN ANTIMONY.
13. ALL PENETRATIONS THROUGH MASONRY WALLS WILL BE CORE DRILLED AND SLEEVED. (A) SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT. (B) SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH AND SHALL FINISH 1/4" ABOVE FINISH FLOOR. (C) SLEEVES SHALL BE AS FOLLOWS: THROUGH MASONRY WALLS - GALVANIZED STEEL PIPE. THROUGH PARTITIONS AND FLOOR - 22 GAUGE GALVANIZED SHEET METAL.
14. ALL FLOOR DRAINS, FLOOR SINKS, AND HUB DRAINS SHALL BE INSTALLED WITH A TRAP PRIMER CONNECTION AND PROVIDED WITH A TRAP PRIMER, TO BE "PRECISION PLUMBING PRODUCTS" (PRIMERITE PR-500) OR EQUIVALENT. USE DISTRIBUTION BLOCKS AS REQUIRED. TRAP PRIMERS SHALL BE LOCATED AS TO FACILITATE EASE OF MAINTENANCE AND CONCEALED FROM DIRECT VIEW.
15. GAS SERVICE CONNECTION LOCATION(S) SHOWN ON ENGINEERING DRAWINGS IS BASED ON THE BEST INFORMATION AVAILABLE FROM THE CIVIL ENGINEER. GAS CONTRACTOR IS TO CONFIRM THE GAS SERVICE CONNECTION LOCATION(S) WITH THE GAS COMPANY PROVIDING SERVICE, PRIOR TO CONSTRUCTION. GAS CONTRACTOR SHALL COORDINATE THE GAS PIPING SERVICE LOCATION WITH THE SITE CONTRACTOR.
16. PORTIONS OF FUEL GAS PIPING INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, RIGHT AND LEFT COUPLINGS, BUSHINGS, COMPRESSION COUPLINGS AND SWING JOINTS MADE BY COMBINATIONS OF FITTINGS OR OTHERWISE THE FUEL GAS PIPING MUST BE SLEEVED AND THE SLEEVE MUST VENT TO ATMOSPHERE. VENTING OF THE SLEEVE SHALL BE ACCOMPLISHED AS TO PREVENT THE ENTRANCE OF WATER OR INSECTS.
17. ALL GAS PIPING INSTALLED OUTDOORS SHALL BE ELEVATED NOT LESS THAN 3 1/2" ABOVE GROUND AND WHERE INSTALLED ACROSS ROOF SURFACES, SHALL BE ELEVATED NOT LESS THAN 31/2" ABOVE THE ROOF SURFACE.
18. ALL HOT AND COLD WATER PIPING DROPPING OR RISING TO SERVE PLUMBING FIXTURES SHALL BE SUPPLIED WITH SHOCK STOPS TO PREVENT WATER HAMMER IN PIPING.
19. EQUIPMENT AND APPLIANCES NOT HAVING AIR GAP SHALL BE PROTECTED WITH AN APPROVED BACKFLOW PREVENTOR.
20. PLUMBING CONTRACTOR SHALL PROVIDE VENTILATION FOR EXHAUST AND COMBUSTION FOR WATER HEATERS. PROVIDE DIRECT VENT SYSTEM AS DESCRIBED IN MANUFACTURER'S PUBLISHED INSTRUCTIONS.



ISSUE DATES  
INITIAL ISSUE 12/20/19

JOB NO. 18-072 | D'WN ML | CKD TAQ

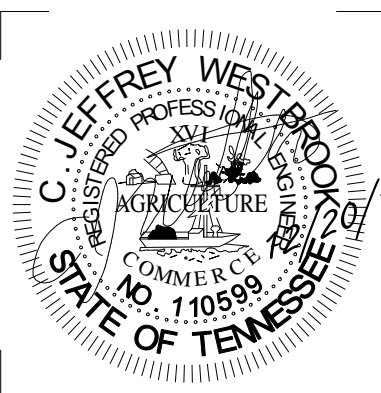
**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402



**SANITARY NOTES**

- MOUNT URINAL (U1) AT ADA COMPLIANT HEIGHT.
- COORDINATE PENETRATIONS THROUGH RATED ASSEMBLIES TO ENSURE FINAL INSTALLATION IS PROPERLY PROTECTED AS REQUIRED BY APPLICABLE CODES. EX: WATER PIPE PENETRATIONS THROUGH RATED WALLS.
- COORDINATE VENT PENETRATION WITH MECHANICAL OUTSIDE AIR INTAKES (TYPICAL).
- COORDINATE LOCATION OF DRAIN AT SPRINKLER RISER WITH FIRE PROTECTION CONTRACTOR.
- ROUTE PRIMARY STORM PIPE TO AND THROUGH CHASE CONSTRUCTED INTO TRUSSES. COORDINATE CHASE LOCATION WITH TRUSS SUPPLIER'S ENGINEER.
- PLUMBING CONTRACTOR TO VERIFY PROPER FLOW CONTROLS OF GREASE SYSTEM. MODIFY AS REQUIRED BY GREASE INTERCEPTOR MANUFACTURER AND GOVERNING CODES.
- INSULATE DRAINS AND DRAIN BODIES ABOVE SLAB THAT RECEIVE CONDENSATE FROM MECHANICAL UNITS.

① 1ST FLOOR Sanitary  
 1/8" = 1'-0"

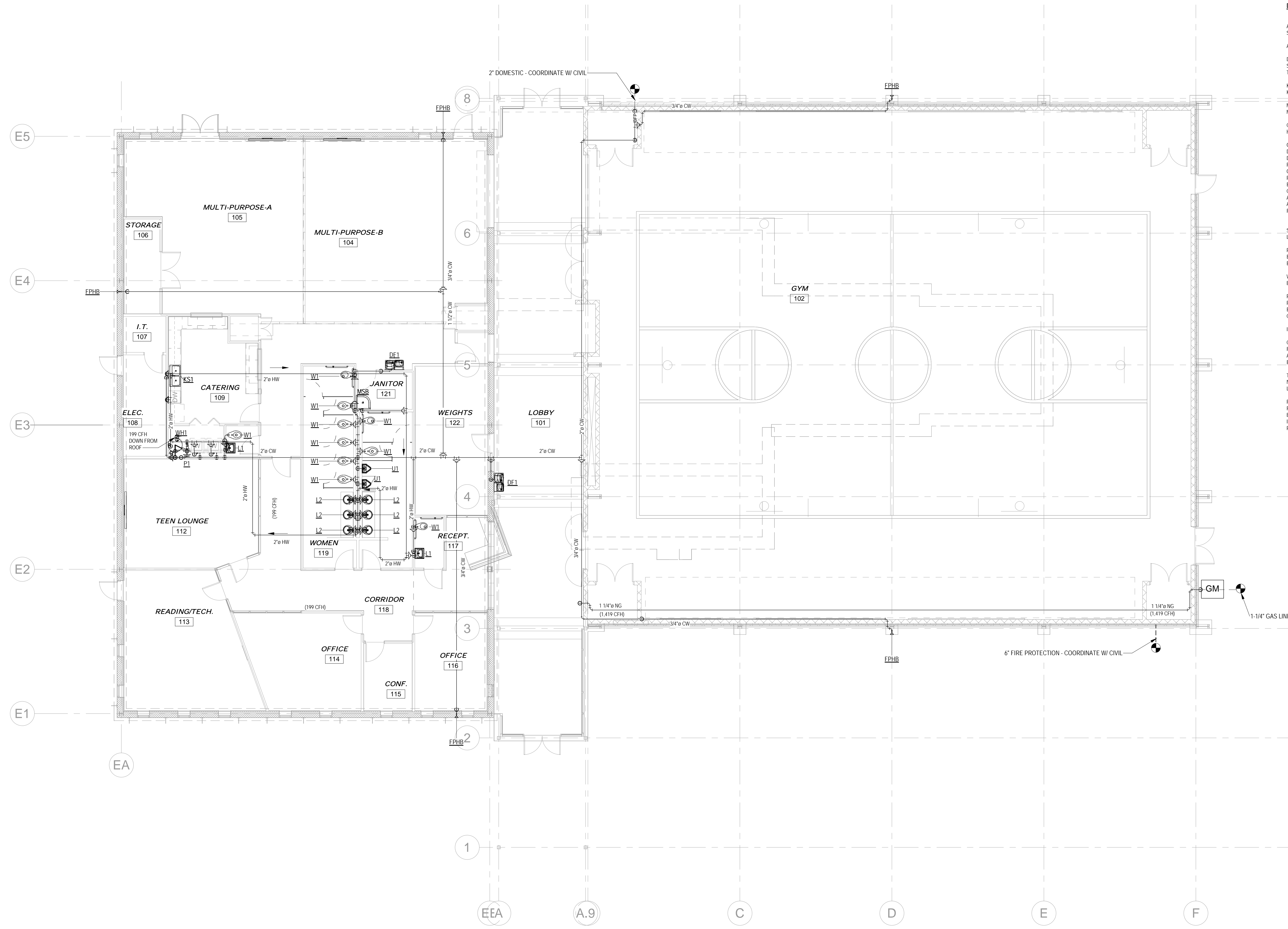


ISSUE DATES  
 INITIAL ISSUE 12/20/19

JOB NO. 18-072 | D'WN RML | CKD TAQ



**East Lake YFD Center  
 Improvements**  
 3610 Dodds Avenue, Chattanooga, TN 37402



**DOMESTIC PLUMBING NOTES**

ALL TOILETS AND SINKS ARE TO HAVE BRAIDED SUPPLY LINES AND 1/4 TURN SHUT-OFF VALVES.

ALL HORIZONTAL CW AND HW PIPING TO BE 3/4" UNLESS OTHERWISE NOTED.

DUE TO THE USE OF LOW FLOW FIXTURES, THE HOT WATER RECIRCULATION SYSTEM SHALL BE LAID OUT SUCH THAT NO HOT WATER RUN-OUT FROM THE RECIRCULATION LINE SHALL BE LONGER THAN 15' DEVELOPED LENGTH.

KITCHEN EQUIPMENT IS SHOWN FOR REFERENCE ONLY. REFER TO THE KITCHEN EQUIPMENT SHEETS FOR EXACT LOCATIONS AND LOADS.

MECHANICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. REFER TO THE MECHANICAL SHEETS FOR EXACT LOCATIONS.

COORDINATE UTILITY INTERRUPTIONS WITH OWNER A MINIMUM OF 72 HOURS BEFORE INTERRUPTION.

GAS PIPING SIZED FOR 2psi DELIVERED GAS PRESSURE WITH A PRESSURE DROP OF 1.0PSIG, 0.6 SPECIFIC GRAVITY AND SCHEDULE 40 PIPE. DEVELOPMENTAL LENGTH OF 300'. NOTIFY DESIGNER IF THAT GAS PRESSURE CANNOT BE DELIVERED. PROVIDE NEW REGULATORS AND OTHER FITTINGS IF REQUIRED TO MATCH EQUIPMENT TO DELIVERED GAS PRESSURE. EVERY REGULATOR INSTALLED INSIDE THE BUILDING SHALL BE EQUIPPED WITH LEAK-LIMITING DEVICES. PRIOR TO INSTALLATION, CONTRACTOR SHALL DETERMINE THE DELIVERED PRESSURE AT THE SITE AND COMPARE WITH THE DESIGN PRESSURE OF THE PROPOSED SYSTEM. ADVISE DESIGNER IF RESIZING OF PIPES IS NECESSARY. PROVIDE REGULATORS IF REQUIRED.

SUGGESTED LOCATION OF GAS METER IS SHOWN. VERIFY ACTUAL LOCATION OF METER BY CIVIL AND GAS COMPANY.

PROVIDE GAS COCK, DRIP LEG, REGULATOR, AND DIELECTRIC UNION AT EACH UNIT. EVERY REGULATOR INSTALLED INSIDE THE BUILDING SHALL BE EQUIPPED WITH LEAK-LIMITING DEVICES.

WIREBRUSH AND PAINT ALL GAS LINES. COLOR: YELLOW OR AS DIRECTED BY ARCHITECT.

POWER VENT SYSTEM FOR WATER HEATERS IS TO INCLUDE INDIVIDUAL 4" PIPES FOR COMBUSTION AIR AND EXHAUST FOR EACH HEATER. PROVIDE EACH WATER HEATER WITH CONCENTRIC VENT KIT & PITCHED ROOF CURB. COORDINATE LOCATION OF ROOF PENETRATION WITH ARCHITECT.

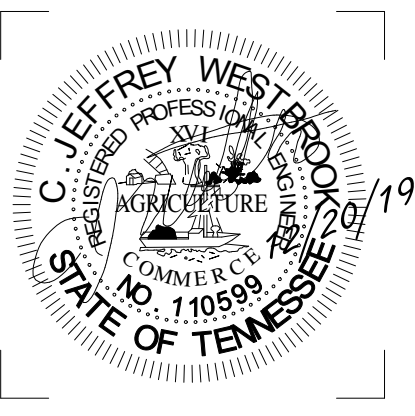
INSULATE ALL NEW HW/CW PIPING, INCLUDING TIE-IN POINTS.

COORDINATE PENETRATIONS THROUGH RATED ASSEMBLIES TO ENSURE FINAL INSTALLATION IS PROPERLY PROTECTED AS REQUIRED BY APPLICABLE CODES.  
 EX: WATER PIPE PENETRATIONS THROUGH RATED WALLS.

THE HOT WATER RECIRCULATION SYSTEM SHALL BE LAID OUT SUCH THAT NO HOT WATER RUN-OUT FROM THE RECIRCULATION LINE SHALL BE LONGER THAN 15' DEVELOPED LENGTH.

PIPING SYSTEMS THROUGHOUT THE BUILDING SHALL BE PROTECTED FROM FREEZING, GENERALLY BY INSTALLING PIPES ON THE HEATED SIDE OF BUILDING INSULATION. PIPING ADJACENT TO EXTERIOR WALLS SHALL BE INSTALLED IN FURRED SPACES WITH BUILDING INSULATION BETWEEN THE PIPING AND THE EXTERIOR WALL.

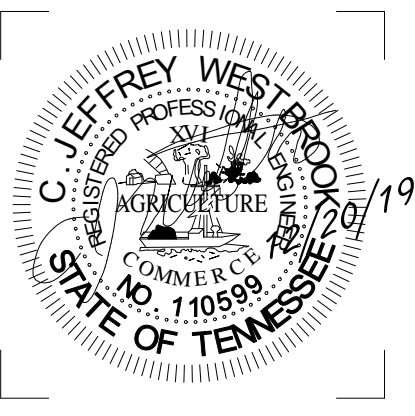
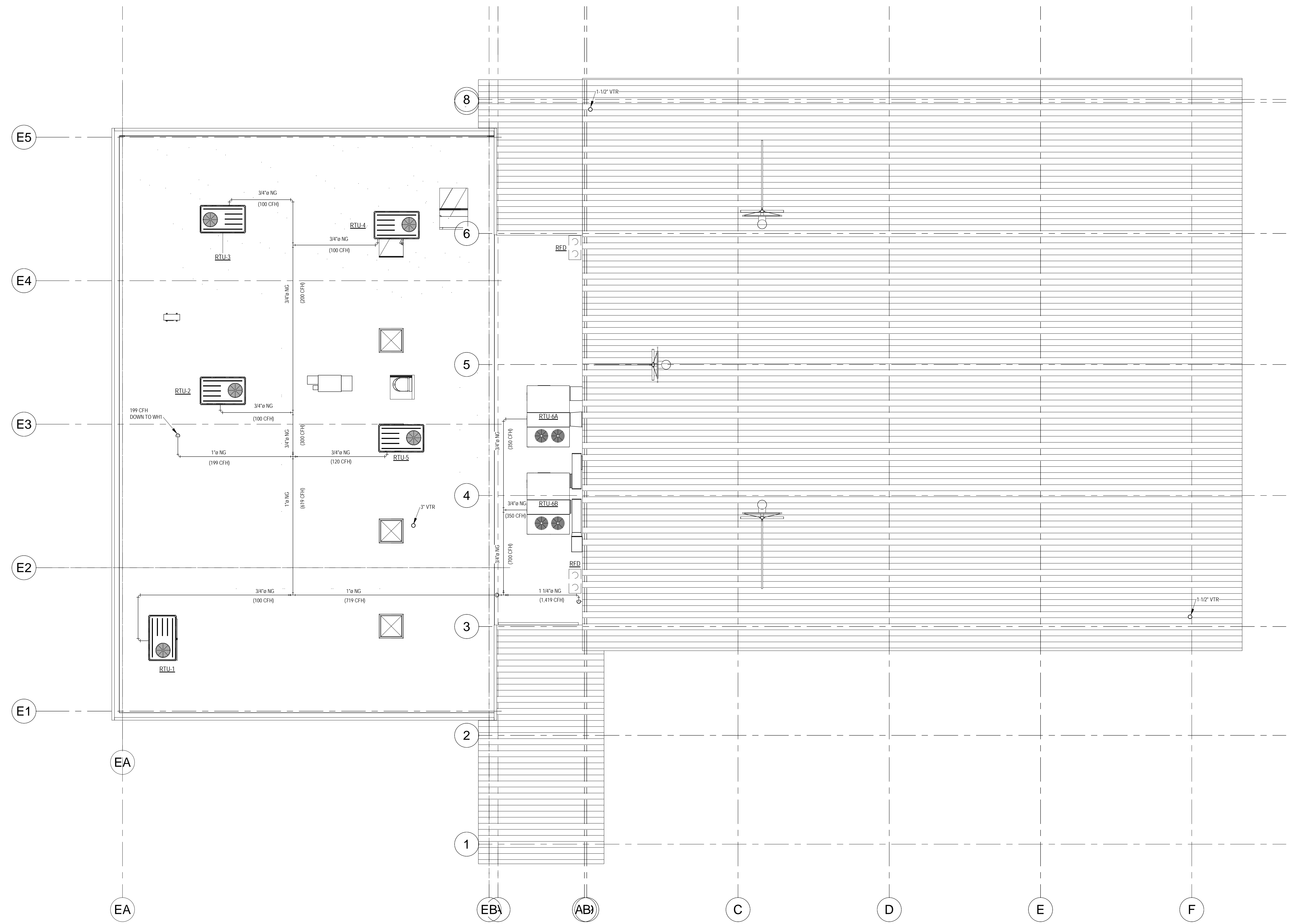
1-1ST FLOOR Domestic  
 1/8" = 1'-0"



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**P1.3**  
 ROOF PLAN

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





**Untitled Map**  
Write a description for your map

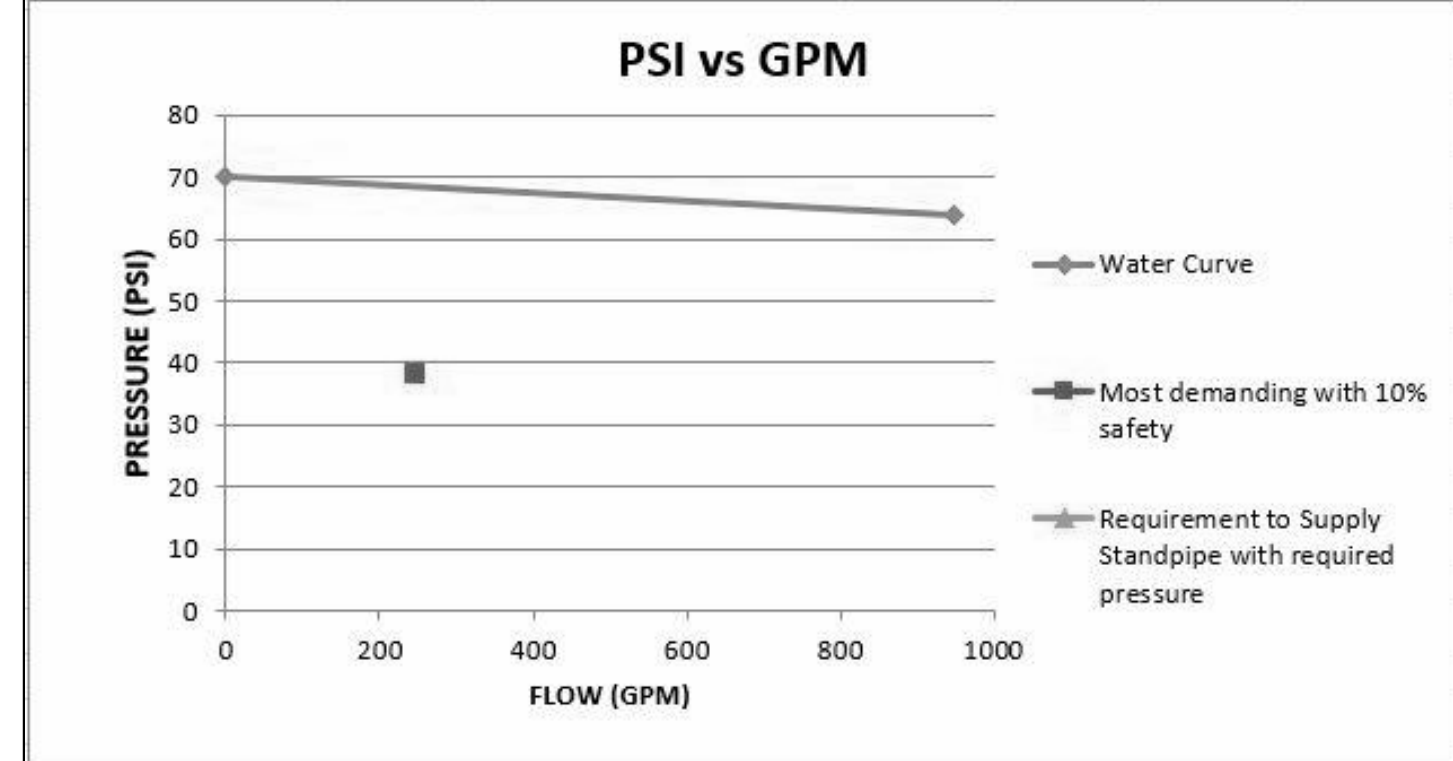
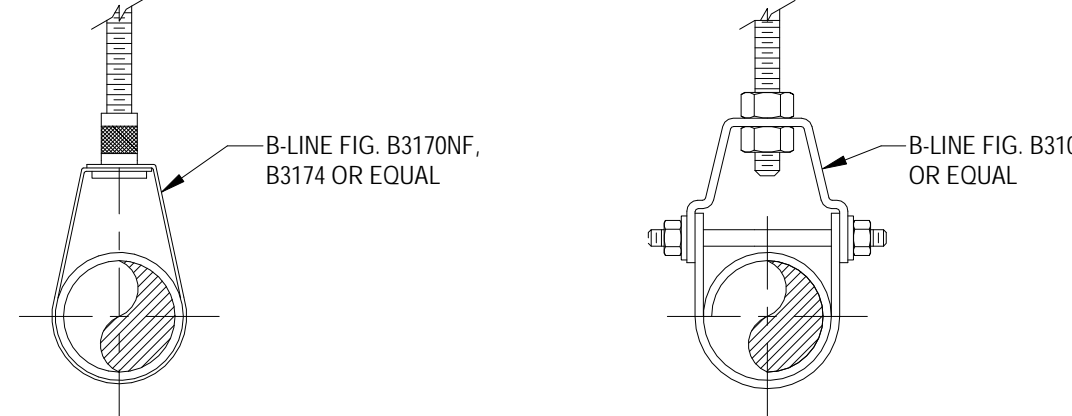
**Legend**

Google Earth  
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**SITE PLAN**  
NOT TO SCALE

**FIRE SPRINKLER PIPE HANGER SIZE AND SPACING**

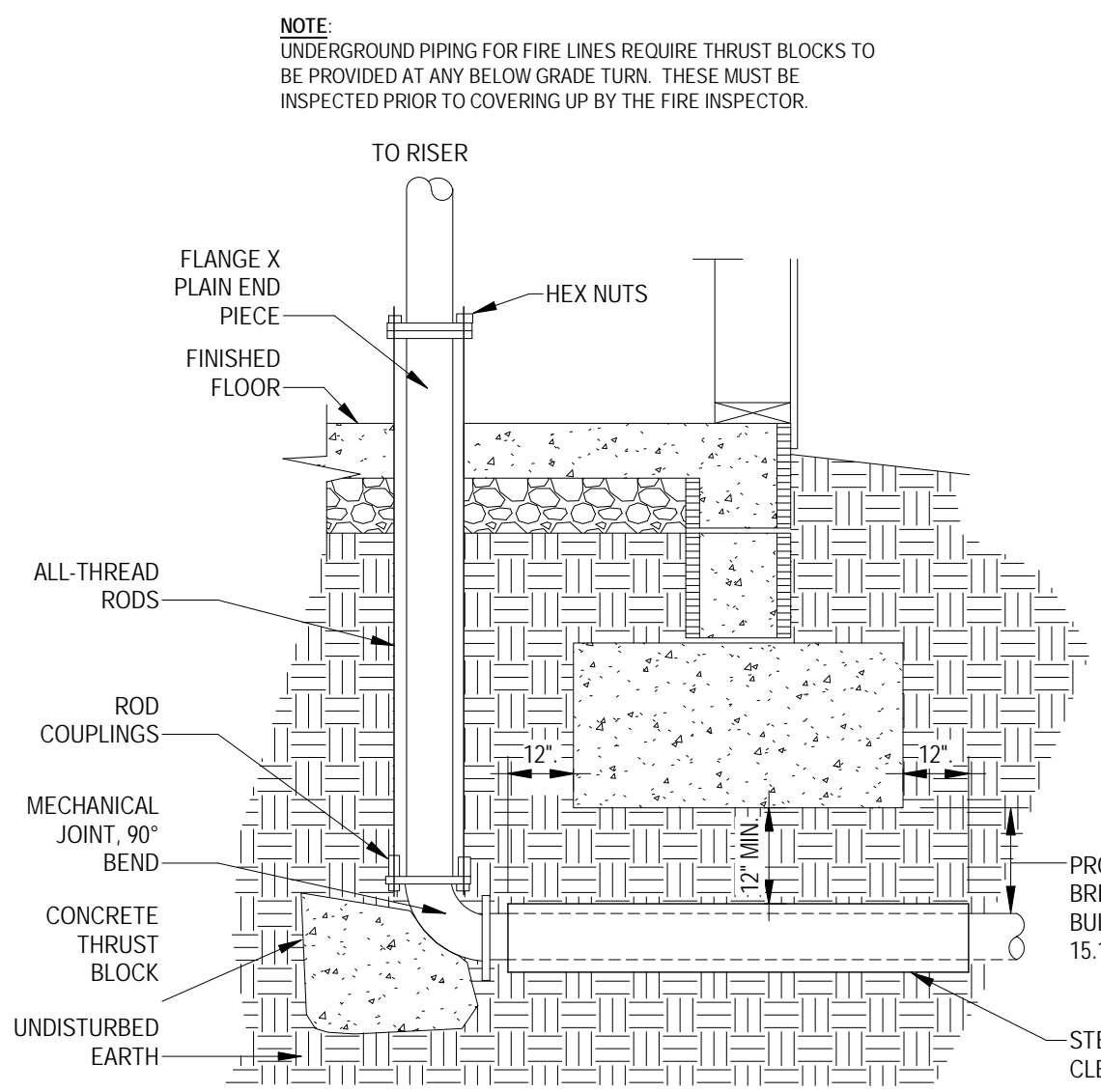
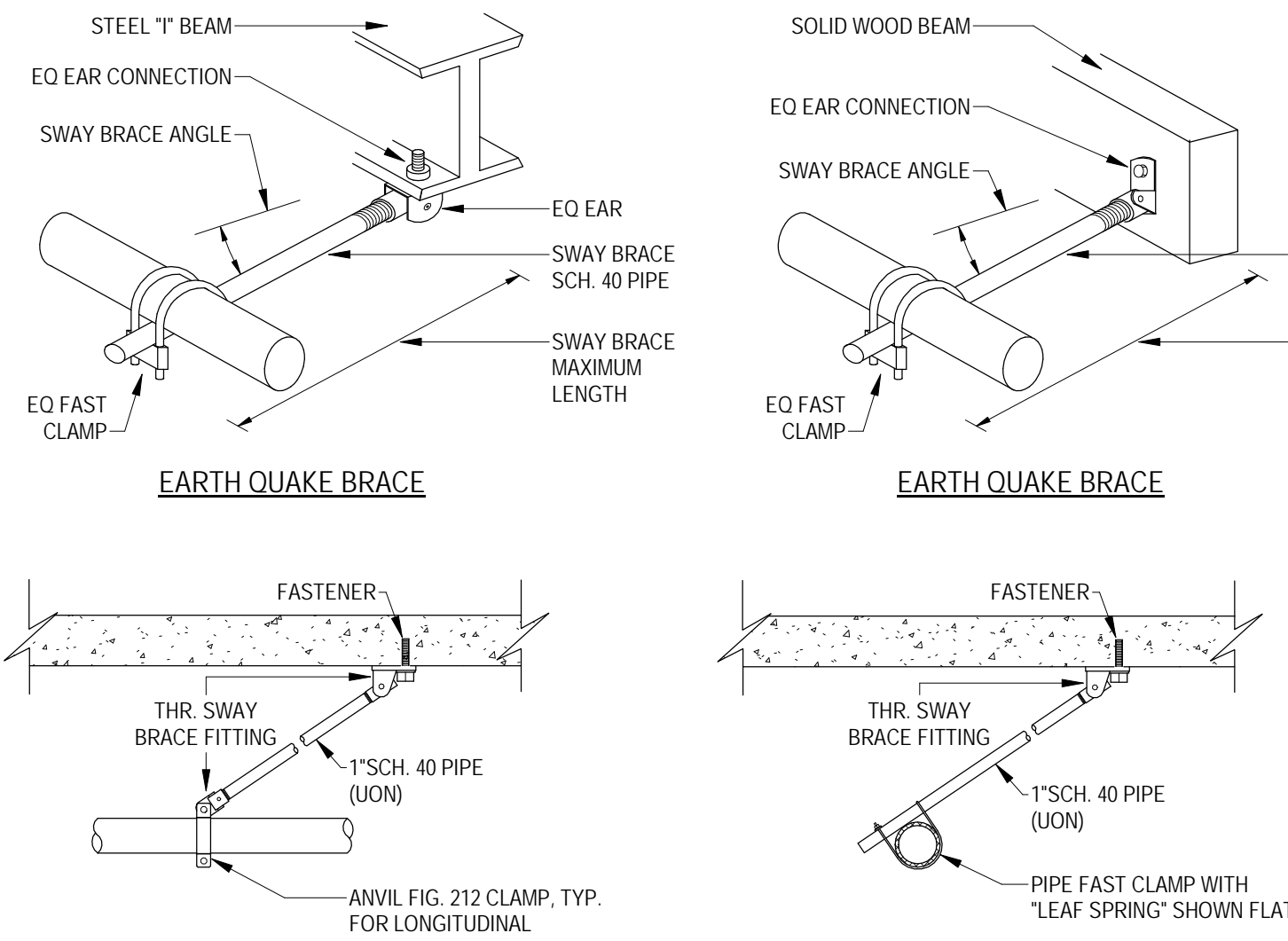
PIPE SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
HANGER ROD SIZE	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	1/2"	1/2"	5/8"
SCD. 40 STEEL PIPE	x	12.0	12.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
SCD. 10 STEEL PIPE	x	12.0	12.0	12.0	12.0	12.0	x	x	x	x	x
COPPER TUBE	8.0	8.0	10.0	10.0	12.0	12.0	12.0	15.0	15.0	15.0	15.0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	x	x	x	x
POLYBUTYLENE (IPS)	x	3-9	4-7	5-0	5-11	x	x	x	x	x	x
POLYBUTYLENE (CTS)	2-11	3-4	3-11	4-5	5-5	x	x	x	x	x	x



SPARE HEAD BOX. PROVIDE THE FOLLOWING:  
(A) OF EACH TYPE OF SPRINKLER USED  
(1) WRENCH FOR EACH TYPE OF SPRINKLER USED FIELD  
LOCATE ADJACENT TO RISER

CONTRACTOR TO PROVIDE WATER GONG ABOVE FINISHED GRADE

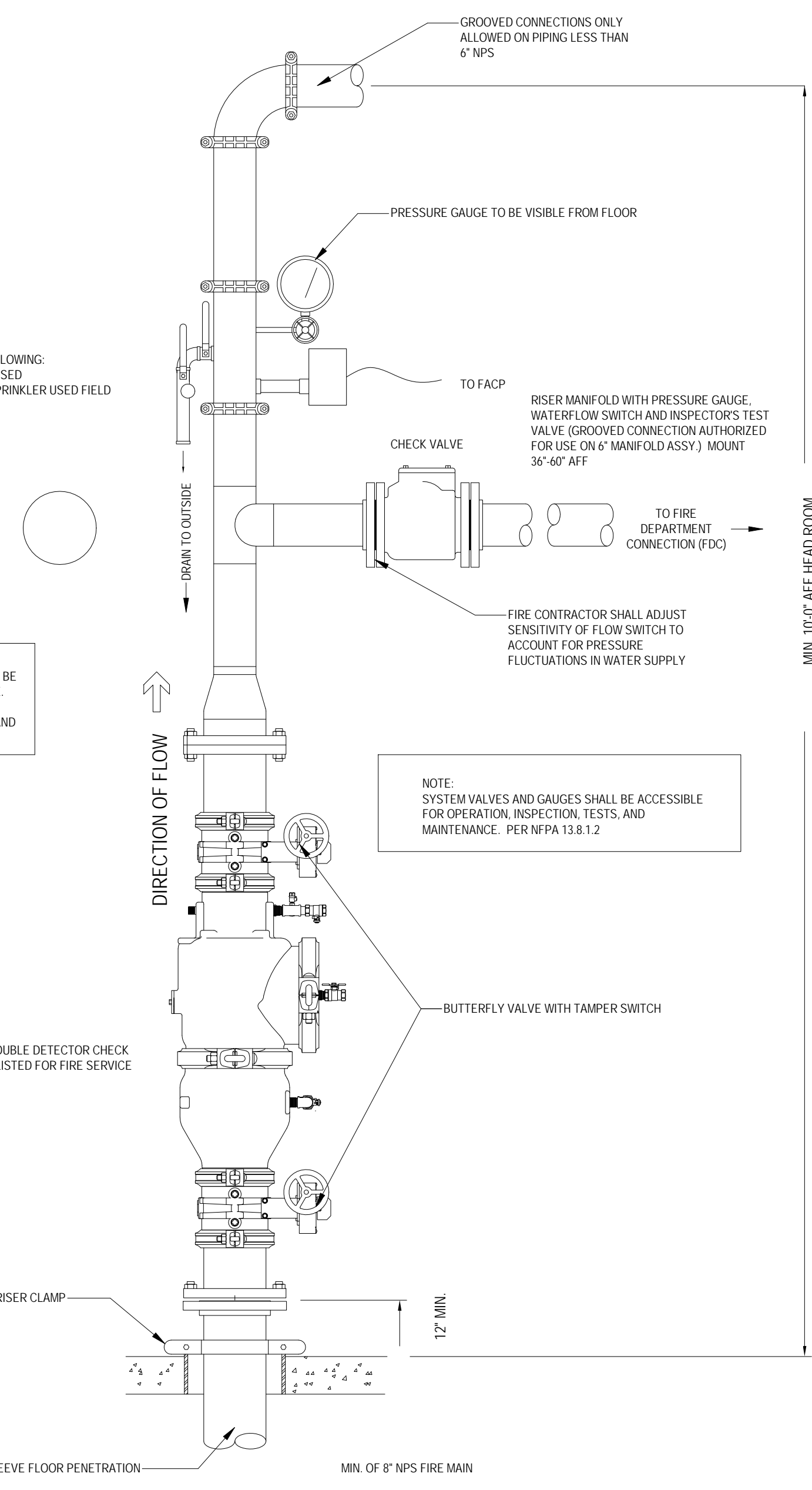
NOTE:  
ALL RISER VALVES, FITTINGS & EQUIPMENT SHALL BE UL/FM APPROVED FOR FIRE PROTECTION SERVICE. INSTALLATION SHALL COMPLY WITH ALL NFPA REQUIREMENTS. PROVIDE TAMPER SWITCHES AND SUPERVISORY CONTROLS AS REQUIRED.



NOTE:  
UNDERGROUND PIPING FOR FIRE LINES REQUIRE THRUST BLOCKS TO BE PROVIDED AT ANY BELOW GRADE TURN. THESE MUST BE INSPECTED PRIOR TO COVERING UP BY THE FIRE INSPECTOR.

PROVIDE CLEARANCE TO PREVENT BREAKAGE OF PIPING DUE TO BUILDING SETTLEMENT (NFPA 13 15.1.6.2)

**FIRE RISER DETAIL WITH DDCV**  
NO SCALE



NOTE:  
SYSTEM VALVES AND GAUGES SHALL BE ACCESSIBLE FOR OPERATION, INSPECTION, TESTS, AND MAINTENANCE. PER NFPA 13.8.1.2

**FLOW TEST DATA :**

PERFORMED BY: TENNESSEE AMERICAN WATER COMPANY  
DATE: 08/13/2017  
HYDRANT: H-301  
LOCATION: 3610 DODDS AVE  
ELEVATION: 687  
STATIC PRESSURE: 70 PSI  
RESIDUAL PRESSURE: 64 PSI  
FLOW: .949 GPM

NOTE:  
CONTRACTOR TO REFER TO THE MOST CURRENT CIVIL PLANS. CONTRACTOR TO OBTAIN THE MOST RECENT HYDRANT TEST. FLOW TEST IS NOT TO OCCUR MORE THAN SIX MONTHS BEFORE THE ISSUE OF THE BUILDING PERMIT.

19211 East Lake YFD		
Hazard	Light Hazard	inputs=
Density	0.1	Important values=
Hose Demand	100	Q
Total GPM	250	K-value
	FT	Size
Distance to riser	125	4
Elbows	2	4
Tees	2	4
Riser/DDCV loss		6
Distance to test hydrant	540	6
Elevation	24	10.4
PSI required at most demanding sprinkler		5.4
Total PSI loss		27.8

**SHOP DRAWING SUBMITTALS**

FIRE PROTECTION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND ASSOCIATED CALCULATIONS, DRAWN AND SIGNED BY A TENNESSEE REGISTERED FIRE PROTECTION SPRINKLER CONTRACTOR PRIOR TO INSTALLATION CONTRACTOR TO OBTAIN THE MOST RECENT HYDRANT TEST THAT MUST BE WITHIN SIX MONTHS OF SUBMITTALS. CONTRACTOR SHALL SUBMIT DRAWINGS TO THE LOCAL FIRE MARSHAL'S OFFICE. DRAWINGS MUST BE APPROVED PRIOR TO INSTALLATION AFTER APPROVAL BY THE MECHANICAL ENGINEER OF RECORD PROCESSED WITH THE ENGINEER'S SHOP DRAWING REVIEW STAMP) HYDRAULIC CALCULATIONS MUST INCLUDE A 10% SAFETY FACTOR MINIMUM OF 10PSI WITH PIPE SIZING BASED ON VELOCITIES NOT EXCEEDING 30FT/S. DESIGN AREAS MUST NOT BE REDUCED BELOW 1,500 SF.

**SPRINKLER DESIGN INTENT**

**SPRINKLER DESIGN INTENT**

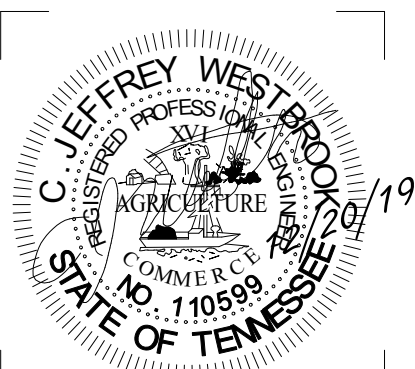
- THIS IS AN NFPA-13 DESIGN. CONTRACTOR SHALL PROVIDE A COMPLETE COMPLIANT SYSTEM WHETHER INDICATED ON THE PLANS OR NOT.
- THIS IS A WET SYSTEM, LIGHT HAZARD OCCUPANCY.
- TOTAL SPRINKLER AREA FOR THE FIRST FLOOR IS APPROXIMATELY 16,349 SQ. FT.
- PIPING CLASS 1, SCHEDULE 40 ASTM A 120 BLACK STEEL PIPING. DRY SYSTEMS REQUIRE GALVANIZED PIPING AND FITTINGS. CPVC (BLAZEMASTER OR APPROVED EQUAL) FIRE SPRINKLER PIPING IS PERMITTED IF APPROVED BY LOCAL JURISDICTION. CONTRACTOR IS RESPONSIBLE TO ASSURE CPVC IS IN COMPLIANCE WITH LOCAL JURISDICTIONAL REQUIREMENTS PRIOR TO BID.
- FITTINGS: 2" AND SMALL FITTINGS ARE 125# C.I. SCREWED 1/2" AND LARGE FITTINGS ARE GROOVED. MECHANICAL TEES OR WELD OUTLETS. CPVC (BLAZEMASTER OR APPROVED EQUAL) FIRE SPRINKLER PIPING IS PERMITTED IF APPROVED BY LOCAL JURISDICTION. CONTRACTOR IS RESPONSIBLE TO ASSURE CPVC IS IN COMPLIANCE WITH LOCAL JURISDICTIONAL REQUIREMENTS PRIOR TO BID.
- CPVC INSTALLATION: ALL INSTALLATION AND PAINTING SHALL BE DONE IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. INSTALLATION CONTRACTOR AND FIELD PERSONNEL ARE TO BE TRAINED AND QUALIFIED IN THE INSTALLATION OF CPVC FIRE SPRINKLER PIPING WITHIN TWO YEARS OF THIS PROJECT'S INSTALLATION. TRAINING SHALL BE PROVIDED BY A CPVC FIRE SPRINKLER PIPING MANUFACTURER AND SHALL INCLUDE PROPER PIPE PREPARATION TECHNIQUES, SOLVENT CEMENTING REQUIREMENTS, INSTALLATION INSTRUCTIONS AND THE PROPER HANDLING OF PLASTIC PIPING INSIDE AND OUTSIDE OF THE BUILDING.
- CPVC PIPE AND FITTINGS ARE NOT INTENDED TO BE INSTALLED IN COMBUSTIBLE CONCEALED SPACES WHERE SPRINKLERS ARE REQUIRED BY NFPA 13 OR 13R.
- CPVC PIPE AND FITTINGS ARE INTENDED TO BE INSTALLED IN APPLICATIONS WHERE PROTECTION IS PROVIDED. THE MINIMUM PROTECTION SHALL CONSIST OF EITHER:  
(1) ONE LAYER OF 3/8" GYPSUM WALLBOARD  
(2) A SUSPENDED MEMBRANE CEILING WITH LAY-IN PANELS OR TILES HAVING A WEIGHT OF NOT LESS THAN 0.39PSF WHEN INSTALLED WITH METALLIC SUPPORT GRIDS  
(3) 1/2" PLYWOOD SOFFIT
- CPVC PIPE AND FITTINGS MAY BE INSTALLED WITHOUT PROTECTION (EXPOSED WHEN SUBJECT TO THE FOLLOWING ADDITIONAL LIMITATIONS:  
(1) EXPOSED PIPING IS TO BE INSTALLED BELOW A SMOOTH, FLAT, HORIZONTAL CEILING CONSTRUCTION.  
(2) LISTED QUICK-RESPONSE, ORDINARY TEMPERATURE RATED PENDENT SPRINKLERS HAVING DEFLECTORS INSTALLED WITHIN 8 IN. FROM THE CEILING AND WITHIN 6 IN. FROM THE SIDEWALL OR LISTED RESIDENTIAL ORDINARY TEMPERATURE RATED HORIZONTAL SIDEWALL SPRINKLERS LOCATED IN ACCORDANCE WITH THEIR LISTING AND A MAXIMUM DISTANCE BETWEEN SPRINKLERS NOT TO EXCEED 14 FT.  
(3) LISTED QUICK-RESPONSE, ORDINARY TEMPERATURE RATED HORIZONTAL SIDEWALL SPRINKLERS HAVING DEFLECTORS INSTALLED WITHIN 6 IN. OF THE CEILING AND WITHIN 6 IN. FROM THE SIDEWALL OR LISTED RESIDENTIAL ORDINARY TEMPERATURE RATED HORIZONTAL SIDEWALL SPRINKLERS LOCATED IN ACCORDANCE WITH THEIR LISTING AND A MAXIMUM DISTANCE BETWEEN SPRINKLERS NOT TO EXCEED 14 FT.
- SPRINKLER CONTRACTOR SHALL AFFIX A PERMANENT SIGN AT EACH HOSE CONNECTION PER NFPA REQUIREMENTS IN EACH STAIRWELL. SPRINKLER CONTRACTOR SHALL AFFIX A PERMANENT SIGN AT FIRE RISER PUMP ROOM STATING CONTROL VALVE COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES. CUTTING AND PATCHING SHALL BE RESTORED IN A MANNER ACCEPTABLE TO THE ARCHITECT AND OWNER.
- ALL PIPING FROM "POINT OF SERVICE" INCLUDING UNDERGROUND USE FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A REGISTERED SPRINKLER CONTRACTOR.
- PRINK ALL PIPING 2" NPS OR LARGER RED EXCEPT WHERE OTHERWISE REQUIRED BY ARCHITECT. APPLY ONE (1) COAT OF PRIMER BEFORE INSTALLATION. APPLY MIN. OF ONE (1) COAT OF PAINT AFTER INSTALLATION.
- SPRINKLER HYDRAULIC CALCULATIONS MUST INCLUDE A 10% SAFETY FACTOR (MINIMUM OF 10PSI) WITH PIPE SIZING BASED ON VELOCITIES NOT EXCEEDING 30FT/S.

**FIRE PROTECTION GENERAL NOTES**

- SCOPE OF WORK**
  - THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK, MATERIALS, AND INCLUDE SERVICES AND INCIDENTALS TO SATISFY A COMPLETE AND OPERATING SYSTEM WHETHER SPECIFIED OR IMPLIED.
  - ALL FIRE PROTECTION WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL STATE, LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES. ALL FIRE PROTECTION SYSTEMS TO MEET RELEVANT STANDARDS OF NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), INCLUDING, BUT NOT LIMITED TO 13, 20, 24, AND 70.
  - ALL EQUIPMENT AND MATERIALS SHALL BE AS SPECIFIED OR "APPROVED EQUAL" BY THE ENGINEER OR ARCHITECT.
  - FIRE PROTECTION/SPRINKLER CONTRACTOR SHALL PROVIDE SPRINKLER SYSTEM PER SPECIFICATIONS.
- PERMITS**
  - THE CONTRACTOR SHALL BE A LICENSED FIRE SPRINKLER CONTRACTOR.
  - THE CONTRACTOR SHALL SECURE ALL PERMITS OR APPLICATIONS AND PAY ANY AND ALL FEES.
  - BEFORE BEGINNING CONSTRUCTION THE SPRINKLER CONTRACTOR IS TO CONFIRM FLOW DATA AND PROVIDE HYDRAULIC SPRINKLER DESIGN. FLOW TEST IS NOT TO OCCUR MORE THAN SIX MONTHS BEFORE THE ISSUE OF THE BUILDING PERMIT.
- SHOP DRAWINGS**
- SUBMIT MATERIAL LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT TO THE ARCHITECT/ENGINEER AND STATE FIRE MARSHALL FOR APPROVAL.**
- SPRINKLER HEADS**
  - WHERE SPRINKLER HEADS ARE INSTALLED IN ACOUSTICAL CEILING TILES, HEADS SHALL BE CENTERED IN THE TILE.
  - SPRINKLER HEADS ARE TO BE PROVIDED IN THE STYLE AND COLOR/FINISH AS SPECIFIED ON THE DRAWING. HOWEVER, CONTRACTOR TO CONSULT WITH OWNER/ARCHITECT PRIOR TO PURCHASE THAT COLOR/FINISH ACCEPTABLE.
  - HEAD LOCATIONS SHOWN ON DRAWINGS ARE FOR ESTIMATING PURPOSES ONLY.
  - UNLESS OTHERWISE SHOWN OR NOTED, INSTALL UPRIGHT HEADS IN AREAS WITHOUT CEILINGS. PROVIDE ESCUTCHEON PLATES FOR AREAS WITH CEILINGS. TEMPERATURE RATING OF SPRINKLERS SHALL BE AS REQUIRED BY NFPA OR A.H.J.
  - MAXIMUM SPACING OF SPRINKLERS TO NOT EXCEED SPRINKLER HEAD MANUFACTURER'S PUBLISHED SPRAY LIMITATIONS.
  - THIS IS A CONCEPTUAL PLAN ONLY. A LICENSED FIRE PROTECTION CONTRACTOR SHALL PROVIDE A COMPLETE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH ALL CODES. ANY ADDITIONAL SPRINKLER HEADS ABOVE WHAT IS SHOWN ON THIS PLAN SHALL BE PROVIDED AT NO ADDITIONAL COST.
- SPRINKLER PIPING**
  - ALL SPRINKLER PIPE IS TO BE RUN AS HIGH AS POSSIBLE AND COORDINATED WITH ALL TRADES.
  - SPRINKLER PIPE SHALL BE MADE TO ANY OF THE SPECIFICATIONS LISTED. WELDING WILL NOT BE PERMITTED IF THERE ARE ANY SPRINKLERS CONNECTED THERETO.
  - ASTM A53
  - ASTM A120
  - ASTM A135
  - PIPING MATERIAL MAY BE SCHEDULE 10 (THINWALL) PROVIDED JOINTS ARE MADE BY ROLL-GROOVE COUPLING, THREADING WILL NOT BE PERMITTED.
  - PIPING MATERIAL MAY BE SCHEDULE 40 WITH FLANGED, ROLL-GROOVED COUPLINGS, OR THREADED JOINTS.
  - DRYWET SPRINKLER PIPING SHALL BE SLOPED TO DRAIN. LOW POINT DRAINS SHALL BE PROVIDED AT ANY CHANGE IN PITCH. COORDINATE WORK WITH OTHER TRADES TO AVOID INTERFERENCES. CUTTING AND PATCHING SHALL BE RESTORED IN A MANNER ACCEPTABLE TO THE ARCHITECT AND OWNER.
  - ALL PIPING FROM "POINT OF SERVICE" INCLUDING UNDERGROUND USE FOR SPRINKLER OR STANDPIPE SYSTEM MUST BE INSTALLED BY A REGISTERED SPRINKLER CONTRACTOR.
  - PRINK ALL PIPING 2" NPS OR LARGER RED EXCEPT WHERE OTHERWISE REQUIRED BY ARCHITECT. APPLY ONE (1) COAT OF PRIMER BEFORE INSTALLATION. APPLY MIN. OF ONE (1) COAT OF PAINT AFTER INSTALLATION.
- WALL AND FLOOR PENETRATIONS**
  - SLEEVES ARE REQUIRED WHERE A PIPE PASSES THROUGH A WALL OR FLOOR. PIPES PASSING THROUGH A WALL OR FLOOR MUST BE INDIVIDUALLY SLEEVED UNLESS APPROVED BY ARCHITECT.
  - SLEEVES SHALL FINISH FLUSH WITH THE WALL FINISH AND SHALL FINISH 1" ABOVE FINISHED FLOOR.
  - SLEEVES SHALL BE AS FOLLOWS:  
THROUGH MASONRY WALLS - GALVANIZED STEEL PIPE  
THROUGH PARTITIONS AND FLOOR - 22 GAUGE GALVANIZED SHEET METAL  
D. PROVIDE FIRE STOP PROTECTION WHEN PENETRATING FIRE RATED PARTITION OR WALL.  
E. ALL PENETRATIONS THROUGH MASONRY WALLS WILL BE CORE DILLED AND SLEEVED.
- PIPE SUPPORTS**
  - ALL HANGERS MUST BE AN APPROVED TYPE BY NFPA 13, NO SPRINKLER PIPING IS TO BE SUPPORTED FROM ANY MECHANICAL OR ELECTRICAL DEVICES.
  - ALL PIPE SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN A NEAT AND WORKMANLIKE MANNER. VERTICAL RISERS SHALL BE SUPPORTED AT EACH FLOOR LEVEL WITH STEEL PIPE CLAMPS. THE USE OF WIRE OR STRAP METAL HANGER TO SUPPORT PIPES WILL NOT BE PERMITTED. HANGING PIPES FROM OTHER PIPES WILL NOT BE PERMITTED. PIPING SHALL BE CAREFULLY COORDINATED BEFORE INSTALLATION WITH SYSTEMS AND EQUIPMENT IN CHASES AND OTHER CONGESTED AREAS.
  - SEISMIC PERFORMANCE: FIRE SUPPRESSION PIPING BRACING SHALL BE IN ACCORDANCE TO NFPA 13.
- STANDPIPES**
  - GAUGES ARE TO BE LISTED 90-mm (3 1/2") DIAM SPRING PRESSURE GAUGE TYPE. GAUGES ARE TO BE CONNECTED TO EACH DISCHARGE PIPE FROM THE FIRE PUMP AND AT THE TOP OF EACH STANDPIPE. GAUGES ARE TO BE LOCATED IN A PLACE SO AS NOT TO FREEZE. EACH VALVE SHALL INCLUDE AN ARRANGEMENT FOR DRAINING. SEE NFPA 14 5.6.
  - STANDPIPES SHALL BE SUPPORTED BY ATTACHMENTS CONNECTED DIRECTLY TO THE STANDPIPE IN AGREEMENT WITH NFPA 14 6.1.
  - 65-mm (2 1/2") HOSE CONNECTIONS FOR CLASS 1 SYSTEMS MUST BE LOCATED AT EACH INTERMEDIATE LANDING BETWEEN FLOOR LEVELS IN EVERY REQUIRED EXIT STAIR. SEE NFPA 14 7.3.2.
  - A DRAIN RISER MUST BE INSTALLED ADJACENT TO EACH STANDPIPE EQUIPPED WITH PRESSURE REGULATING DEVICES.
- SEISMIC**
  - SEISMIC RESTRAINT FOR SPRINKLER PIPING IS REQUIRED. PROVIDE FLEXIBLE COUPLINGS AT FLEXURE JOINTS PER NFPA 13 9.2.1 AND CLEARANCES AROUND PIPING PASSING THROUGH FLOORS AND WALLS AND FOUNDATIONS PER NFPA 13 9.3.4.
  - SEE STRUCTURAL DRAWINGS FOR LOCAL SEISMIC DESIGN COEFFICIENTS.
- WORKING PLANS**
  - THE DRAWINGS INCLUDED AS PART OF THIS SET OF CONSTRUCTION DOCUMENTS ARE TO PROVIDE ENGINEERING DESIGN INTENT. THE CONTRACTOR SHALL PREPARE WORKING DRAWINGS (AS DEFINED BY NFPA 13) WHICH SHALL INCLUDE HYDRAULIC CALCULATIONS AND WILL BE SUBMITTED TO THE ENGINEER AND FIRE MARSHALL FOR APPROVAL.
- MISCELLANEOUS**
  - DO NOT SCALE THIS DRAWING FOR EXACT DIMENSIONS. VERIFY ALL FIGURES, CONDITIONS, AND DIMENSIONS AT THE JOB SITE. THE SPRINKLER PLANS ARE INTENDED TO BE DIAGRAMMATIC. THEY ARE NOT INTENDED TO SHOW EVERY ITEM IN ITS EXACT LOCATION.
  - PROVIDE TAMPER SWITCHES ON ALL OSAY VALVES. TAMPER SWITCHES SHALL BE FURNISHED AND INSTALLED BY THE FIRE PROTECTION CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR. CHAIN AND LOCK ALL OSAY VALVES IN FULLY OPEN POSITION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ASSEMBLING ANY EQUIPMENT SHIPPED IN SECTIONS, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - COMPLETE SPRINKLER SHOP DRAWINGS AND ASSOCIATED CALCULATIONS MUST BE DRAWN AND SIGNED BY A REGISTERED FIRE PROTECTION CONTRACTOR'S RESPONSIBLE MANAGING EMPLOYEE. THE SPRINKLER SHOP DRAWINGS AND ASSOCIATED CALCULATIONS MUST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL BY THE FIRE PROTECTION ENGINEER AFTER DESIGN INTENT HAS BEEN APPROVED BY THE A.H.J.
  - PROVIDE A FLOW SWITCH OR ALARM CHECK VALVE CONNECTION TO THE BUILDING FIRE ALARM SYSTEM (MUST SOUND WITHIN FIVE MINUTES OF FLOW) (NFPA 13 9.9.1).
  - ALL SYSTEM GAUGES AND VALVES MUST BE ACCESSIBLE FOR INSPECTION AND MAINTENANCE. (NFPA 13 8.15.1.2)
  - SOLIDNO VALVES USED FOR ELEVATOR HOISTWAYS AND MACHINE ROOMS SHALL BE LISTED FOR THE PARTICULAR APPLICATION AND BE SUPERVISED BY THE FIRE ALARM SYSTEM STAND ALONE SLENOID VALVES SERVING A DRY SYSTEM BRANCH LINE FOR ELEVATOR HOISTWAYS AND MACHINE ROOMS IS NOT AN ACCEPTABLE ALTERNATIVE TO A PREACTION SPRINKLER SYSTEM.
  - FIRE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ELECTRIC BELL WIRING OF ELECTRIC BELL SHALL BE BY FIRE ALARM CONTRACTOR. IN THE EVENT THAT A FIRE ALARM SYSTEM IS NOT PROVIDED OR IS NOT WITHIN THE PROJECT SCOPE, THE FIRE SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL A STAND ALONE FIRE ALARM CONTROL PANEL DEDICATED TO MONITORING THE FIRE RISER FLOW AND TAMPER SWITCHES AS WELL AS OPERATING THE ELECTRIC BELL. THE FIRE ALARM CONTROL PANEL SHALL INCLUDE BATTERY BACKUP AND DALI OUT CAPABILITY. FIRE SPRINKLER CONTRACTOR SHALL SUBCONTRACT A LICENSED FIRE ALARM CONTRACTOR FOR ALL WIRING.
  - CONTRACTOR TO INSPECT ALL DRAWINGS CAREFULLY FOR LOCATIONS SUBJECT TO FREEZING CONDITIONS. DO NOT INSTALL PIPING IN AREAS EXPOSED TO AMBIENT CONDITIONS UNLESS ADEQUATELY PROTECTED. PIPING SYSTEMS THROUGHOUT THE BUILDING SHALL BE PROTECTED FROM FREEZING, GENERALLY BY INSTALLING PIPES ON THE HEATED SIDE OF BUILDING INSULATION. PIPING ADJACENT TO EXTERIOR WALLS SHALL BE INSTALLED IN FURRED SPACES WITH BUILDING INSULATION BETWEEN THE PIPING AND THE EXTERIOR WALL.
  - UNDERGROUND PIPING FOR FIRE LINES REQUIRE THRUST BLOCKS TO BE PROVIDED AT ANY BELOW GRADE TURN. THESE MUST BE INSPECTED PRIOR TO COVERING UP BY THE FIRE INSPECTOR.
  - CONTRACTOR TO PROVIDE OWNER WITH SPARE SPRINKLER HEADS ALONG WITH THE APPROPRIATE SPRINKLER HEAD WRENCHES. PROVIDE SIX (6) SPARE SPRINKLER HEADS OF EACH TYPE AND TEMPERATURE RATING. ADDITIONAL SPRINKLER HEADS ARE TO BE PROVIDED FOR EACH TOTAL ALARM SYSTEM STAND ALONE SLENOID VALVES SERVING A DRY SYSTEM BRANCH LINE FOR ELEVATOR HOISTWAYS AND MACHINE ROOMS IS NOT AN ACCEPTABLE ALTERNATIVE TO A PREACTION SPRINKLER SYSTEM.
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ISSUE DATES  
INITIAL ISSUE 12/20/19

JOB NO. 18-072 D'WN CKD  
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**FP1.0**  
FP SITE PLAN AND NOTES

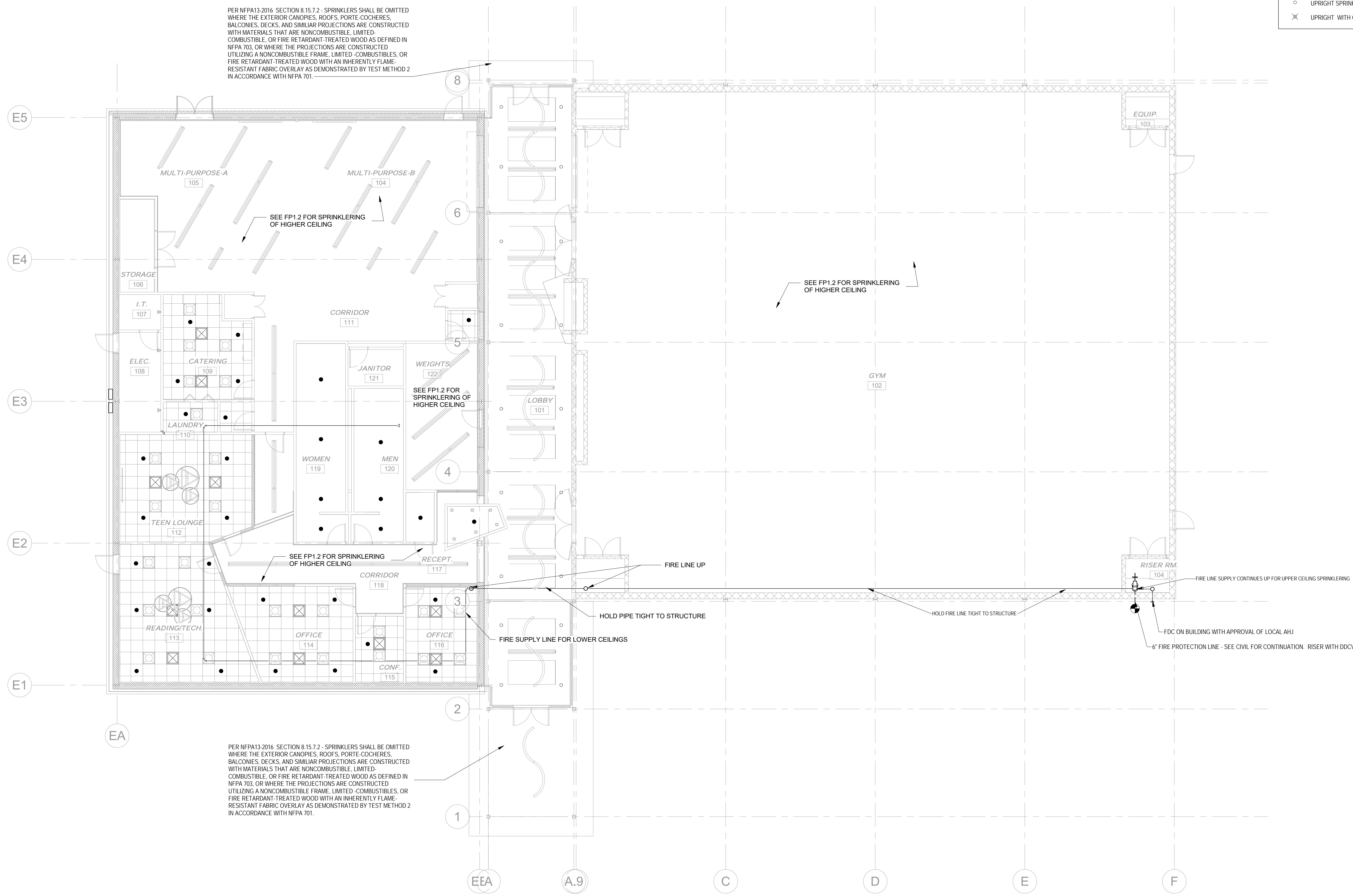
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MAA #: 19211



PER NFPA13-2016 SECTION 8.15.7.2 - SPRINKLERS SHALL BE OMITTED WHERE THE EXTERIOR CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS, AND SIMILAR PROJECTIONS ARE CONSTRUCTED WITH MATERIALS THAT ARE NONCOMBUSTIBLE, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD AS DEFINED IN NFPA 703, OR WHERE THE PROJECTIONS ARE CONSTRUCTED UTILIZING A NONCOMBUSTIBLE FRAME, LIMITED-COMBUSTIBLES, OR FIRE RETARDANT-TREATED WOOD WITH AN INHERENTLY FLAME-RESISTANT FABRIC OVERLAY AS DEMONSTRATED BY TEST METHOD 2 IN ACCORDANCE WITH NFPA 701.

PER NFPA13-2016 SECTION 8.15.7.2 - SPRINKLERS SHALL BE OMITTED WHERE THE EXTERIOR CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS, AND SIMILAR PROJECTIONS ARE CONSTRUCTED WITH MATERIALS THAT ARE NONCOMBUSTIBLE, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD AS DEFINED IN NFPA 703, OR WHERE THE PROJECTIONS ARE CONSTRUCTED UTILIZING A NONCOMBUSTIBLE FRAME, LIMITED-COMBUSTIBLES, OR FIRE RETARDANT-TREATED WOOD WITH AN INHERENTLY FLAME-RESISTANT FABRIC OVERLAY AS DEMONSTRATED BY TEST METHOD 2 IN ACCORDANCE WITH NFPA 701.

FIRE PROTECTION SPRINKLER HEAD LEGEND	
●	WET PENDANT SPRINKLER HEAD
△	SIDE WALL SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
⊗	UPRIGHT WITH GUARD SPRINKLER HEAD



E5  
E4  
E3  
E2  
E1

8  
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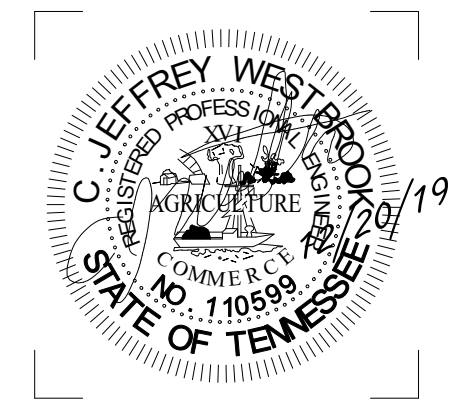
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EEA A.9 C D E F

1 1ST FLOOR  
1/8" = 1'-0"

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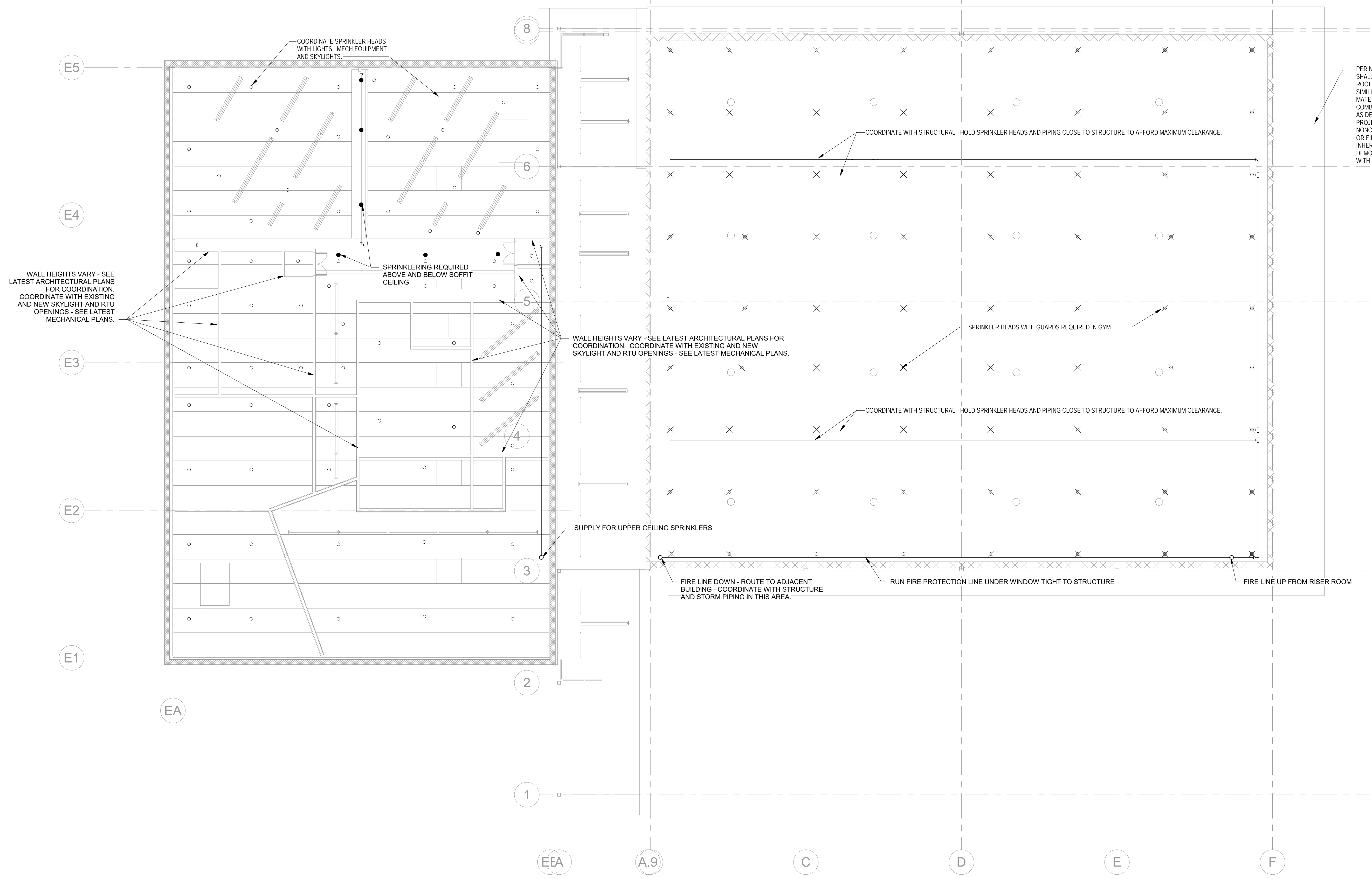
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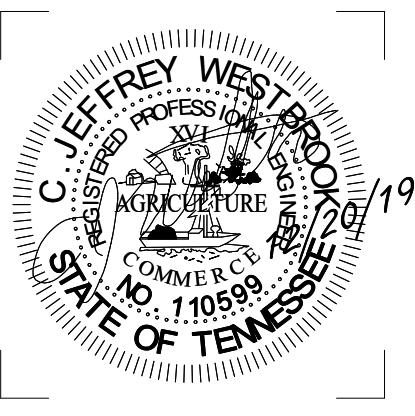
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FP FIRST FLOOR  
PLAN



FIRE PROTECTION SPRINKLER HEAD LEGEND	
●	WET PENDANT SPRINKLER HEAD
△	SIDE WALL SPRINKLER HEAD
○	UPRIGHT SPRINKLER HEAD
⊗	UPRIGHT WITH GUARD SPRINKLER HEAD



PER NFPA13:2016 SECTION 8.15.7.2 - SPRINKLERS SHALL BE OMITTED WHERE THE EXTERIOR CANOPIES, ROOFS, PORTE-COCHERES, BALCONIES, DECKS, AND SIMILAR PROJECTIONS ARE CONSTRUCTED WITH MATERIALS THAT ARE NONCOMBUSTIBLE, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD AS DEFINED IN NFPA 703, OR WHERE THE PROJECTIONS ARE CONSTRUCTED UTILIZING A NONCOMBUSTIBLE FRAME, LIMITED-COMBUSTIBLE, OR FIRE RETARDANT-TREATED WOOD WITH AN INHERENTLY FLAME-RESISTANT FABRIC OVERLAY AS DEMONSTRATED BY TEST METHOD 2 IN ACCORDANCE WITH NFPA 701.



ISSUE DATES  
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**1 UPPER CEILING**  
 SCALE: 1/8" = 1'-0"



**ELECTRICAL SYMBOLS**

- CONDUIT CONCEALED IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS.
- CONDUIT CONCEALED IN OR UNDER FLOOR SLAB.
- FLEXIBLE CONNECTION TO EQUIPMENT.
- HOMERUN TO PANELBOARD. EXAMPLE: HOMERUN TO PANEL R1, CKTS. #1 AND #3, 2 POLE BREAKER, 3#12 & 1#12 G 1/2" CONDUIT MINIMUM. CONDUCTORS SIZED PER NEC.
- JUNCTION BOX, 4" SQUARE OR SIZED AS NEEDED.
- FIXTURE OUTLET CEILING - SEE SCHEDULE FOR LAMP TYPE.
- FIXTURE OUTLET CEILING - STRIP
- WALL MOUNTED FIXTURE.
- FIXTURE PROVIDING EMERGENCY ILLUMINATION.
- EXIT LIGHTING FIXTURE, ARROWS AND EXIT FACE AS INDICATED ON DWGS.
- BOLLARD TYPE SITE LIGHTING.
- STANDARD DESIGNATIONS FOR ALL LIGHTING FIXTURES.  
 "A" = FIXTURE TYPE, REFER TO FIXTURE SCHEDULE  
 "2" = CIRCUIT NUMBER  
 "g" = SWITCH IDENTIFICATION  
 "p" = PHOTOCELL CONTROL - DUSK TO DAWN OPERATION
- OCCUPANCY SENSOR SWITCH OUTLET - AC TYPE, 1 POLE, 20A, 120, HUBBELL LHM1M52 DIMMING DUAL TECH LIGHTWAVE OR EQUAL.
- WEATHER PROOF SWITCH OUTLET - AC TYPE, 1 POLE, 20A, 120/277V, HUBBELL 1221 OR EQUAL. "WP" INDICATES WITH WEATHER PROOF COVER.
- SWITCH OUTLET - AC TYPE, 1 POLE, 20A, 120/277V, ILLUMINATED WITH LOAD OFF, HUBBELL 1221IL OR EQUAL.
- SWITCH OUTLET - AC TYPE, 3 WAY, 20A, 120/277V, HUBBELL 1223 OR EQUAL.
- WALL OUTLET - DUPLEX 20A, 125V, 2P/3W NEMA 5-20R GROUNDING, HUBBELL 5362 OR EQUAL. 2 INDICATES CIRCUIT #2.
- WALL OUTLET - DUPLEX 15A, 250V, 2P/3W NEMA 6-15R GROUNDING, HUBBELL 5662GY OR EQUAL. COORDINATE WITH UPS VENDOR FOR EXACT CONFIGURATION.
- WALL OUTLET - DOUBLE DUPLEX 20A, 125V, 2P/3W NEMA 5-20R GROUNDING, 2 EACH HUBBELL 5362 OR EQUAL.
- WALL OUTLET - DUPLEX GROUND FAULT CURRENT INTERRUPTER, 20A, 125V, 2P/3W NEMA 5-20R GROUNDING, HUBBELL GFR5352 OR EQUAL.
- WALL OUTLET - SINGLE OUTLET, 50A, 250V, 2P/3W NEMA 6-50R GROUNDING, HUBBELL 9367 OR AS REQUIRED TO MATCH EQUIPMENT.
- WALL OUTLET - DUPLEX WEATHER PROOF 20A, 125V, 2P/3W NEMA 5-20R GFCI, HUBBELL GFR5352 WITH WP26 COVER IN DAMP LOCATIONS & WP826MP IN WET LOCATIONS, AS DEFINED BY NEC, OR EQUAL.
- WALL OUTLET - MOUNTED 6" ABOVE COUNTER. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL. RATING AS INDICATED.
- WALL OUTLET - DUPLEX 20A, 250V, 2P/3W NEMA 6-20R GROUNDING, HUBBELL 5462 OR EQUAL.
- WALL OUTLET - ELECTRICAL WATER COOLER. COORDINATE LOCATION & HEIGHT W/PLUMBING. CONCEAL RECEPT. BEHIND WATER COOLER NEMA 5-20R GFCI.
- WIRELESS ACCESS DATA POINT LOCATION. WALL OR CEILING MOUNTED AS REQUIRED.
- TELEPHONE/DATA OUTLET. 2 GANG BOX WITH TWO GANG PLASTER RING. PROVIDE 1" CONDUIT FROM FLUSH MOUNTED OUTLET BOX TO VOID ABOVE DROPPED CEILING. TURN CONDUIT INTO CEILING VOID WITH 90 DEGREE BEND. INSTALL INSULATED BUSHING ON END OF CONDUIT. IN ROOMS WITH NO DROPPED CEILING, ROUTE CONDUIT TO NEAREST CEILING VOID. COMMUNICATIONS CABLES AND OUTLETS FURNISHED AND INSTALLED UNDER OTHER SECTIONS.
- TOGGLE MANUAL MOTOR STARTER SWITCH OUTLET - AC TYPE, 2 POLE, 30A, 120/277V, WITH MOTOR THERMAL OVERLOADS, HUBBELL 1372D
- DISCONNECT SWITCH, NON-FUSED, SIZED AS INDICATED ON DRAWINGS.
- DISCONNECT SWITCH, FUSED, SIZED AS INDICATED ON DRAWINGS.
- ACROSS THE LINE MOTOR STARTER, FURNISHED BY MECHANICAL CONTRACTOR AND INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
- TRANSIENT VOLTAGE SURGE SUPPRESSOR. TYPE AS NOTED IN SPECIFICATIONS. MOUNT AS CLOSE TO PANEL TERMINALS AS POSSIBLE.
- RECEPTACLE PANEL, SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM.
- LIGHTING PANEL, SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM.
- MECHANICAL SYSTEMS PANEL, SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM.
- SERVICE ENTRANCE MAIN PANEL WITH METERING OF EACH LOAD AS REQUIRED BY ASHRAE 90.3, SEE PANEL SCHEDULES AND SINGLE LINE DIAGRAM.
- 8" BASKET CABLE TRAY
- WIRE BASKET CABLE TRAY FOR EXPOSED PLENUM RATED SYSTEMS WIRING ABOVE LAY IN CEILING AND IN STRUCTURAL CEILING SPACES. INSTALL AT ELEVATIONS SHOWN AND PROVIDE THE INDICATED SIZES AND ROUTING. SEE SHEET E5.10 FOR ROUTING AND CONFIGURATION. SYSTEMS INCLUDE AUDIOVISUAL, DATA, LIGHTING CONTROLS, AND OTHER COMPATIBLE LOW VOLTAGE SYSTEMS.

**LIGHTING CONTROLS SYSTEM**

- WALL MOUNTED PRESET SCENE CONTROL FOR LOCAL LIGHTING CONTROL PANEL. MOUNTS 48" AFF.
- LOCAL 4 ZONE CONTROL PANEL WITH ON/OFF AND 0-10VDC DIMMING CONTROL FOR EACH ZONE. INSTALL ABOVE LAY-IN CEILING OR IN CLOSET SHOWN. INTERFACE WITH AV CONTROLS FOR PRESET ACTIVATIONS. FURNISH ALL BOXES, MOUNTING HARDWARE AND OTHER REQUIREMENTS OF THE EQUIPMENT MANUFACTURER, WALL MOUNTED 48" AFF OR ABOVE LAY IN CEILING.
- OCCUPANCY SENSOR FOR CONTROL OF LIGHTING AND RECEPTACLES AS INDICATED. PROVIDE WALL OR CEILING MOUNTED DUAL TECHNOLOGY UNITS AS SHOWN. FURNISH ALL BOXES, MOUNTING HARDWARE AND OTHER REQUIREMENTS OF THE EQUIPMENT MANUFACTURER. WALL UNITS MOUNTED 48" AFF.
- EMERGENCY LIGHTING INVERTER FOR GYMNASIUM LIGHTING. PROVIDE 90 MINUTE RUN TIME FOR LOADS SHOWN.

**FIRE CONTROLS DEVICE LEGEND**

- FIRE PULL STATION. SINGLE ACTION, SINGLE POLE WITH CLEAR PLASTIC COVER. MOUNTED 48" A.F.F.
- PHOTOELECTRIC SMOKE DETECTOR.
- STROBE LIGHT LEVEL 75cd UNLESS OTHERWISE NOTED. MOUNTED 96" A.F.F. OR 12" BELOW CEILING, WHICHEVER IS LOWER. IN AREAS WITH LAY-IN CEILINGS, STROBES MAY BE COMBINED WITH A STROBE/SPEAKER MOUNTED FLUSH IN THE CEILING.
- PHOTOELECTRIC DUCT SMOKE DETECTOR WITH INTEGRAL LED. PROVIDE RELAY & CONNECT TO AHU SHUTDOWN.
- FIRE ALARM CONTROL PANEL.
- FIRE ALARM REMOTE ANNUNCIATOR
- AUDIBLE WATER FLOW WARNING HORN, SOUND LEVEL 87dB @ 10'-0" UNLESS OTHERWISE NOTED.
- HEAT DETECTOR
- RELAY CONTROL POINT FOR HVAC FAN SHUTDOWN. "RT" INDICATES IN NEMA 3R RAIN TIGHT CABINET.
- CONTROL INPUT
- REMOTE LAMP AND TEST STATION FOR DUCT DETECTOR ABOVE LAY IN CEILING.
- WATER FLOW SWITCH BY SPRINKLER CONTRACTOR. MONITORED BY FIRE ALARM SYSTEM.
- VALVE SUPERVISORY SWITCH BY SPRINKLER CONTRACTOR. MONITORED BY FIRE ALARM SYSTEM.
- REMOTE LAMP AND TEST STATION FOR DUCT DETECTOR
- RED PAINTED FIRE ALARM CONDUIT AND BOX SYSTEM. PROVIDE CONCEALED CONDUIT WHERE POSSIBLE ABOVE LAY IN CEILING OR WALLS. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND CONTAIN FPLP RATED CONDUCTORS AS DEFINED BY FIRE ALARM SHOP DRAWINGS.
- GREEN PAINTED EMERGENCY WARNING SYSTEM CONDUIT AND BOX SYSTEM. PROVIDE CONCEALED CONDUIT WHERE POSSIBLE ABOVE LAY IN CEILINGS OR WALLS. CONDUIT SHALL BE 3/4" MINIMUM SIZE AND CONTAIN FPLP RATED CONDUCTORS AS DEFINED BY EMERGENCY WARNING SYSTEM SHOP DRAWINGS.
- UL LISTED EMERGENCY WARNING SYSTEM CEILING MOUNTED SPEAKER. DEFINE TYPE, POWER TAP, ZONE NUMBER IN CERTIFIED NICET PREPARED SHOP DRAWINGS.
- UL LISTED EMERGENCY WARNING SYSTEM DIRECTIONAL WALL MOUNTED HORN TYPE SPEAKER. DEFINE TYPE, POWER TAP, AND ZONE NUMBER IN CERTIFIED NICET PREPARED SHOP DRAWINGS.

**PAGING AND AV SYSTEMS DEVICES**

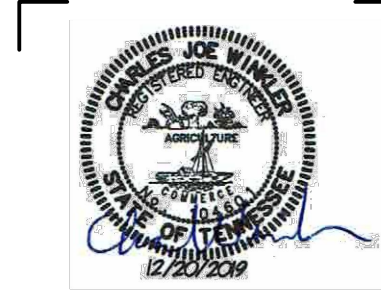
- PAGING SYSTEM CEILING MOUNTED SPEAKER. FLUSH MOUNTED IN LAY IN CEILINGS AND PENDANT TYPE (12" AFF) IN EXPOSED AREAS. SEE SPECS FOR TYPES.
- PAGING SYSTEM GYMNASIUM CEILING MOUNTED SPEAKER, MTD 20" ABOVE FLOOR LEVEL. SEE SINGLE LINE AND SPECS FOR SPECIFIC TYPES.
- TEEN LOUNGE SOUND SYSTEM 12" SUBWOOFER, WALL MOUNTED SPEAKER, MTD 9' ABOVE FLOOR LEVEL. SEE SINGLE LINE AND SPECS FOR SPECIFIC TYPES.
- TEEN LOUNGE SOUND SYSTEM 8" COAXIAL SPEAKER, WALL MOUNTED SPEAKER, MTD 9' ABOVE FLOOR LEVEL. SEE SINGLE LINE AND SPECS FOR SPECIFIC TYPES.
- PAGING SYSTEM 70.7 VOLT OR 8 OHM SPEAKER CIRCUIT. PLENUM RATED, MINIMUM #16AWG TWISTED JACKETED PAIR INSTALLED ABOVE LAY IN CEILING IN CABLE TRAYS OR SUPPORTED BY STRUCTURE WHERE CABLE TRAY IS NOT AVAILABLE. INSTALL IN CONDUIT IN WALLS AND EXPOSED STRUCTURE SUBJECT TO PHYSICAL DAMAGE SUCH AS THE GYMNASIUM. TEEN LOUNGE AND MULTIPURPOSE ROOMS MAY BE EXPOSED ABOVE TO FLEET.
- AMPLIFIER RACK FOR PAGING AND AV SYSTEMS. PROVIDE INSTALLATION OF PROCESSORS, POWER SUPPLIES, CONTROL SYSTEMS, NETWORK FUNCTIONS, ETC., AS SHOWN OR REQUIRED. FREE STANDING OR SWINGING WALL MOUNTED AS SHOWN.
- LOCAL WALL EQUIPMENT CABINET FOR AUDIOVISUAL EQUIPMENT LOCATED IN EACH INDEPENDENT SYSTEM ROOM. "X" INDICATES ROOM LOCATION. INSTALL INPUT DEVICES, CONTROL PROCESSORS, TOUCH SCREENS, POWER SUPPLIES, AUDIO EQUIPMENT ETC., AS SHOWN ON SINGLE LINES ETC., OR AS REQUIRED.
- WALL MOUNTED VIDEO DISPLAY UNIT "##" INDICATES DIAGONAL DIMENSION SIZE. FURNISH WITH ADJUSTABLE WALL MOUNT, AND INTERCONNECTIONS AS INDICATED. UNITS MOUNTED WITH TOP SIX INCHES BELOW CEILING OR BOTTOM SIX FEET ABOVE THE FLOOR, WHICHEVER IS LOWER. PROVIDE MOUNTING SUPPORT STRUCTURE COORDINATED WITH GENERAL CONTRACTOR TO SUPPORT EXPECTED WEIGHT PLUS 150#.
- LOCAL TOUCH SCREEN CONTROL PANEL FOR AUDIOVISUAL EQUIPMENT LOCATED IN EACH INDEPENDENT SYSTEM ROOM. "X" INDICATES ROOM LOCATION. INSTALL INTERNAL TO PANEL SWC OR WALL LOCATION AS SHOWN 54" AFF. MOUNTING BOX BY AV CONTRACTOR.
- LOCAL PLATE FOR CONNECTION OF PORTABLE DEVICES AS SHOWN ON SINGLE LINE DIAGRAMS. MOUNTED FLUSH IN WALL WITH STANDARD GANG BOX LOCATION SHOWN AT 18" AFF. "X" INDICATES ROOM LOCATION.
- LOCAL PLATE FOR CONNECTION OF USER LAP TOP OR OTHER PORTABLE DEVICES AS SHOWN ON SINGLE LINE DIAGRAMS. MOUNTED FLUSH IN WALL LOCATION SHOWN AT 48" AFF. "X" INDICATES ROOM LOCATION.
- FLUSH FLOOR MOUNTED BOX FOR CONNECTION OF PORTABLE DEVICES AS SHOWN ON SINGLE LINE DIAGRAMS. "X" INDICATES ROOM LOCATION AND "F" INDICATES SEQUENCE NUMBER AS SHOWN ON DRAWINGS. SEE SHEET E5.02 FOR MOUNTING DETAILS. FURNISH FBS TYPE C4X RECESSED FLOOR BOX WITH DEVICE PLATES INDICATED DRAWINGS. COVER TO BE APPROVED BY ARCHITECT.

**SECURITY CONTROLS DEVICE LEGEND**

- CARD READER BY OWNER. COORDINATE CONDUITS AND ACCESS WITH DOOR HARDWARE.
- SECURITY CAMERA BY OWNER. FURNISH 4" SQUARE BOX WITH TWO GANG BLANK PLATE. HOME-RUN 3/4" CONDUIT FROM BOX TO NEAREST LAY IN/ACCESSIBLE CEILING, CABLE TRAY OR NEAREST TBB.

**GENERAL NOTES**

1. MINIMUM POWER CIRCUIT CONDUCTOR SIZE SHALL BE NO. 12 AND MINIMUM CONDUIT SIZE SHALL BE 1/2". CONDUIT SHALL BE SCHEDULE 40 PVC, RGS, IMC, OR EMT AS DEFINED IN SPECIFICATIONS. CONDUCTORS SHALL BE COPPER, BELOW GRADE CONDUIT SHALL BE SCHEDULE 40 PVC. SERVICE ENTRANCE CONDUITS SHALL BE SCHEDULE 80.
2. MOUNTING HEIGHTS OF ALL WALL DEVICES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED. WALL SWITCHES: 4'-0" A.F.F., GENERAL RECEPTACLES: 1-6" A.F.F., EXIT LIGHT J-BOX: 1'-0" ON CENTER LINE ABOVE DOOR, TELEPHONE OUTLET: 1'-6" A.F.F.
3. THE CONTRACTOR SHALL CHECK ALL LIGHTING LUMINARIES FOR EXACT TYPE, MOUNTING, AND SPACE REQUIREMENTS BEFORE ROUGHING IN.
4. SHOULD ANY ELECTRICAL POWER, LIGHT, OR AUXILIARY CIRCUIT BE DAMAGED OR DISCONNECTED DURING CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL RESTORE THE CIRCUIT TO ITS ORIGINAL STATE WITH NO ADDITIONAL COST TO THE OWNER.
5. VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL BEFORE ROUGHING IN LIGHT SWITCHES IN ORDER TO ENSURE PROPER SWITCH LOCATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH GENERAL CONTRACTOR AND OTHER TRADES. VERIFY THE EXACT LOCATION, AMPACITY REQUIREMENTS, OVER CURRENT PROTECTION AND DIMENSIONS OF ALL MOTORS AND EQUIPMENT BEFORE ROUGHING IN.
7. ALL BRANCH CIRCUITS SHALL INCLUDE A GREEN INSULATED GROUND CONDUCTOR SIZED PER N.E.C. ARTICLE 250 (GROUNDING) OR AS SHOWN ON DRAWINGS, WHICHEVER IS LARGER.
8. WHEREVER HOME RUNS ARE SHOWN COMPRISING OF TWO OR MORE CIRCUITS, CONNECT ALL RECEPTACLES AND / OR LIGHTING FIXTURES ON ALTERNATING CIRCUITS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. ALL POWER RACEWAYS SHALL CONSIST OF A MINIMUM OF 3 NO. 12 THHN/THWN CONDUCTORS; ONE POWER, ONE NEUTRAL, AND ONE GROUND INSTALLED IN A 1/2" MINIMUM CONDUIT UNLESS OTHERWISE INDICATED ON DRAWINGS. BELOW GRADE CONDUCTORS MUST BE THWN OR XHHW.
10. DO NOT UTILIZE A COMMON NEUTRAL CONDUCTOR ON POWER CIRCUITS IN COMMON CONDUITS. EACH CIRCUIT SHALL HAVE ITS OWN NEUTRAL CONDUCTOR EVEN WHEN DIFFERENT CIRCUITS ARE CONTAINED IN THE SAME CONDUIT.
11. LIGHTING CIRCUITRY IS SHOWN IN CONCEPT ONLY. PROVIDE AND INSTALL ALL CONDUCTORS NECESSARY TO PROVIDE THE SWITCHING AND CONTROL FUNCTIONS SHOWN ON THE DRAWINGS. "o" SWITCH CONTROLS "g" FIXTURES, ETC. PROVIDE ALL CONDUCTORS NECESSARY FOR PHOTOCELLS, 3 WAY SWITCHING AND OCCUPANCY SENSORS, REQUIRED HOT LEGS, ETC., AS SHOWN.
12. ELECTRICAL INSTALLATION SHALL CONFORM TO NATIONAL ELECTRICAL CODE NEC 2017 OR AS INDICATED BY LOCAL AUTHORITY.
13. HOLD



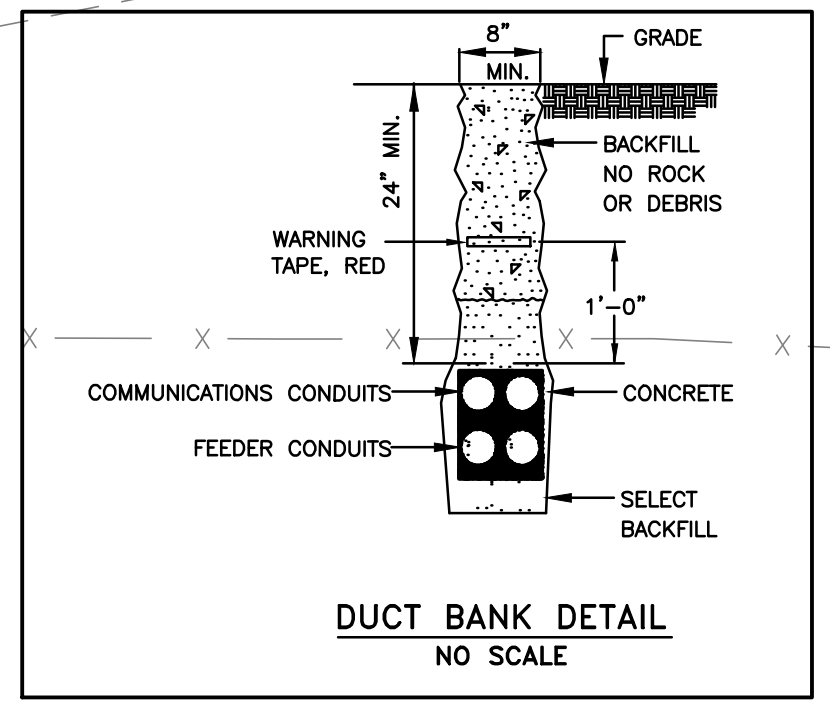
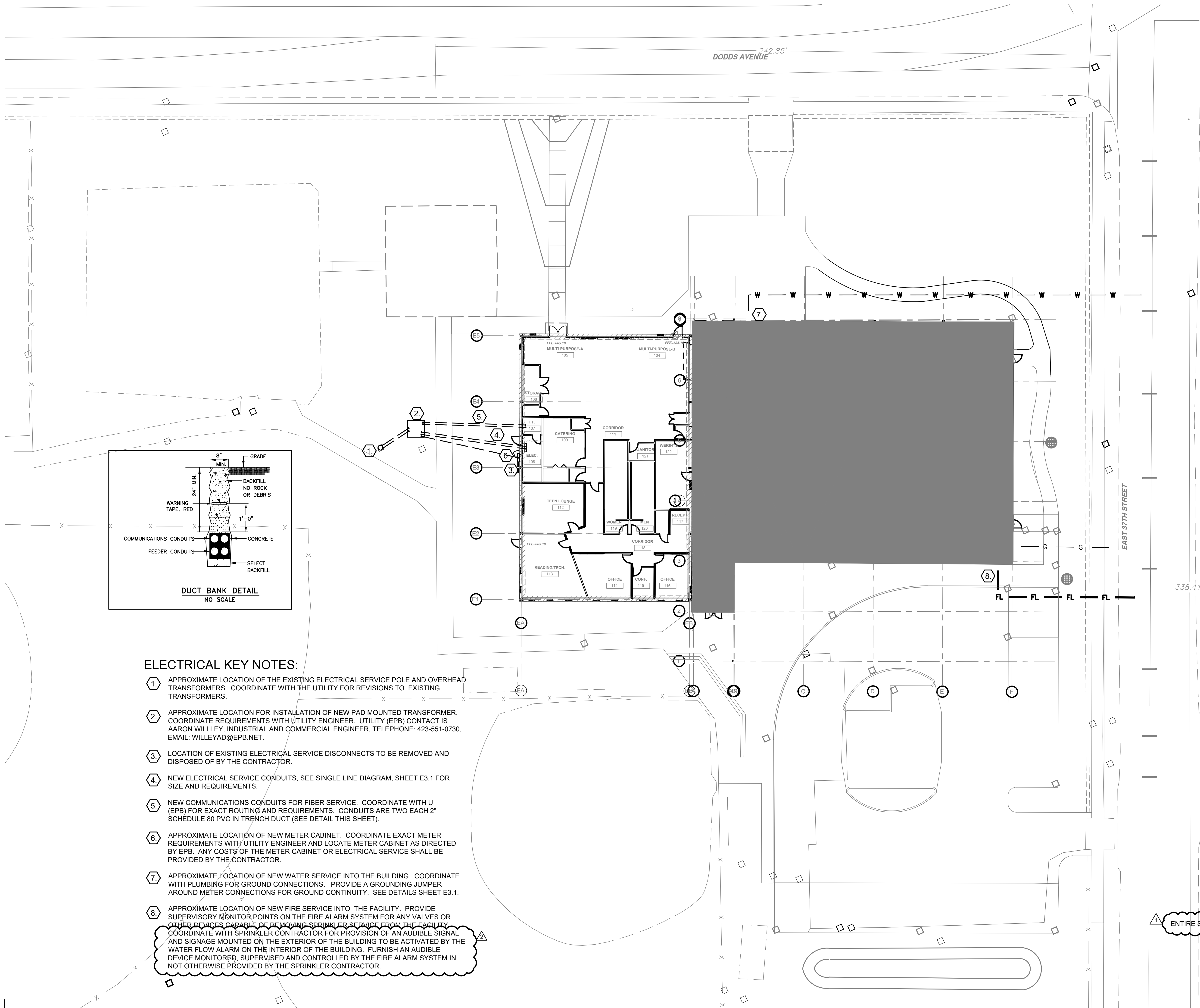
ISSUE DATES	
INITIAL ISSUE	12-20-19
ADDENDUM 4	01-09-20
ADDENDUM 9	01-22-20

JOB NO.	D'WN	CK'D
18-072	JRTT	CJWR



**East Lake YFD Center  
 Improvements**

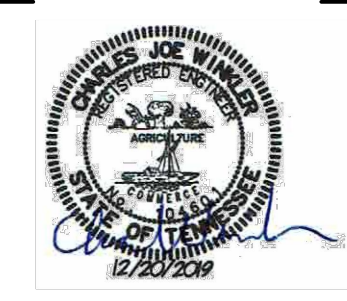
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**ELECTRICAL KEY NOTES:**

- ① APPROXIMATE LOCATION OF THE EXISTING ELECTRICAL SERVICE POLE AND OVERHEAD TRANSFORMERS. COORDINATE WITH THE UTILITY FOR REVISIONS TO EXISTING TRANSFORMERS.
- ② APPROXIMATE LOCATION FOR INSTALLATION OF NEW PAD MOUNTED TRANSFORMER. COORDINATE REQUIREMENTS WITH UTILITY ENGINEER. UTILITY (EPB) CONTACT IS AARON WILLEY, INDUSTRIAL AND COMMERCIAL ENGINEER, TELEPHONE: 423-551-0730, EMAIL: WILLEYAD@EPB.NET.
- ③ LOCATION OF EXISTING ELECTRICAL SERVICE DISCONNECTS TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
- ④ NEW ELECTRICAL SERVICE CONDUITS, SEE SINGLE LINE DIAGRAM, SHEET E3.1 FOR SIZE AND REQUIREMENTS.
- ⑤ NEW COMMUNICATIONS CONDUITS FOR FIBER SERVICE. COORDINATE WITH U (EPB) FOR EXACT ROUTING AND REQUIREMENTS. CONDUITS ARE TWO EACH 2" SCHEDULE 80 PVC IN TRENCH DUCT (SEE DETAIL THIS SHEET).
- ⑥ APPROXIMATE LOCATION OF NEW METER CABINET. COORDINATE EXACT METER REQUIREMENTS WITH UTILITY ENGINEER AND LOCATE METER CABINET AS DIRECTED BY EPB. ANY COSTS OF THE METER CABINET OR ELECTRICAL SERVICE SHALL BE PROVIDED BY THE CONTRACTOR.
- ⑦ APPROXIMATE LOCATION OF NEW WATER SERVICE INTO THE BUILDING. COORDINATE WITH PLUMBING FOR GROUND CONNECTIONS. PROVIDE A GROUNDING JUMPER AROUND METER CONNECTIONS FOR GROUND CONTINUITY. SEE DETAILS SHEET E3.1.
- ⑧ APPROXIMATE LOCATION OF NEW FIRE SERVICE INTO THE FACILITY. PROVIDE SUPERVISORY MONITOR POINTS ON THE FIRE ALARM SYSTEM FOR ANY VALVES OR OTHER DEVICES CAPABLE OF REMOVING SPRINKLER SERVICE FROM THE FACILITY. COORDINATE WITH SPRINKLER CONTRACTOR FOR PROVISION OF AN AUDIBLE SIGNAL AND SIGNAGE MOUNTED ON THE EXTERIOR OF THE BUILDING TO BE ACTIVATED BY THE WATER FLOW ALARM ON THE INTERIOR OF THE BUILDING. FURNISH AN AUDIBLE DEVICE MONITORED, SUPERVISED AND CONTROLLED BY THE FIRE ALARM SYSTEM IN NOT OTHERWISE PROVIDED BY THE SPRINKLER CONTRACTOR.

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM



ISSUE DATES

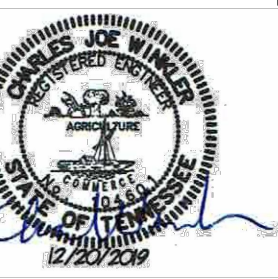
INITIAL ISSUE	12-20-19
ADDENDUM 4	01-09-20
ADDENDUM 9	01-22-20

JOB NO. 18-072 | D'WN JRJT | CK'D CJWR



**East Lake YFD Center  
 Improvements**

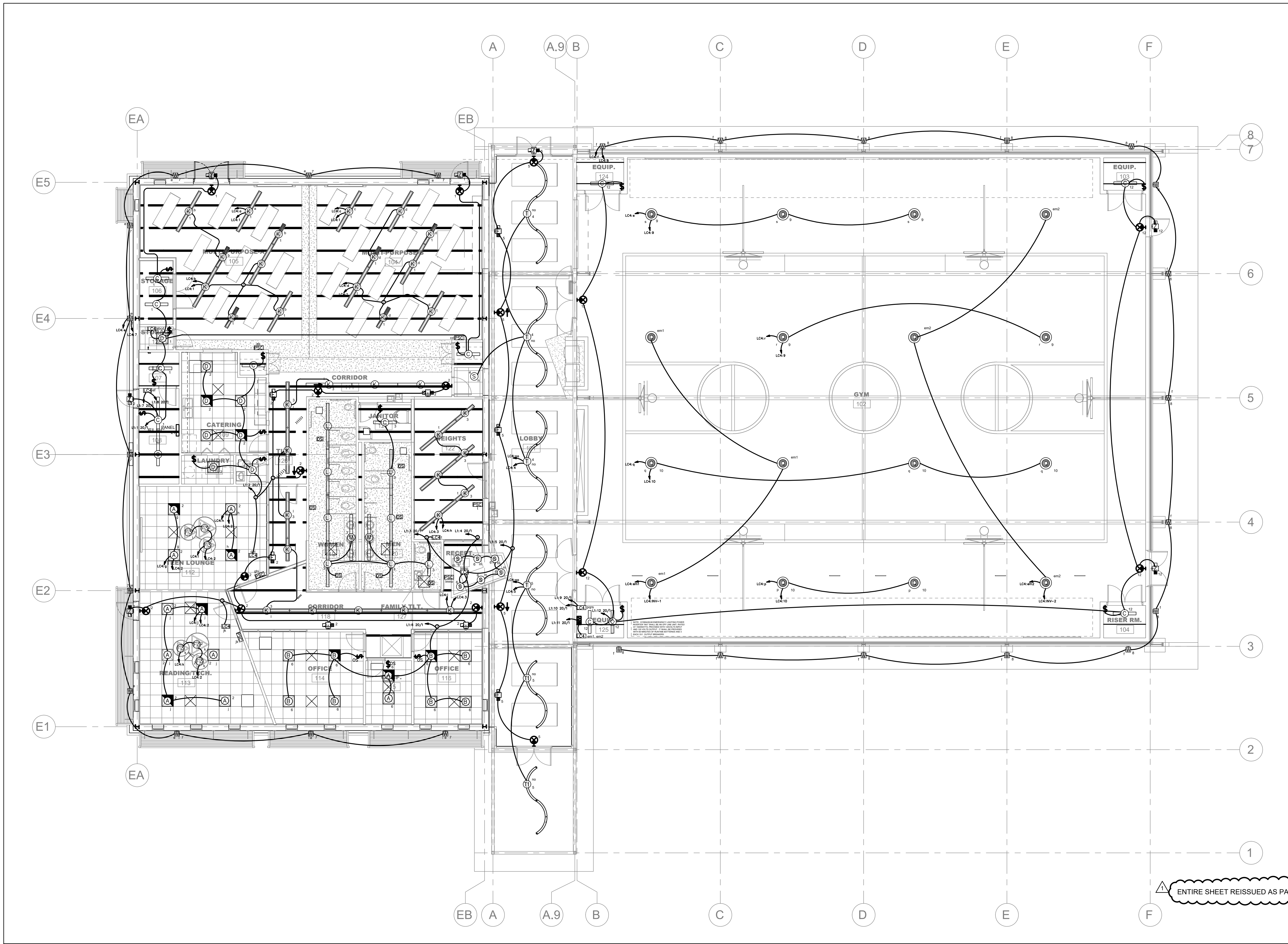
3610 Dodds Avenue, Chattanooga, TN 37402



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 INITIAL ISSUE 12-20-19  
 ADDENDUM 4 01-09-20

JOB NO. 18-072 | D'WN JR TT | C'KD C'JWR

**E2.0**  
 LIGHTING PLAN



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East Lake YFD Center  
Improvements  
3610 Dodds Avenue, Chattanooga, TN 37402

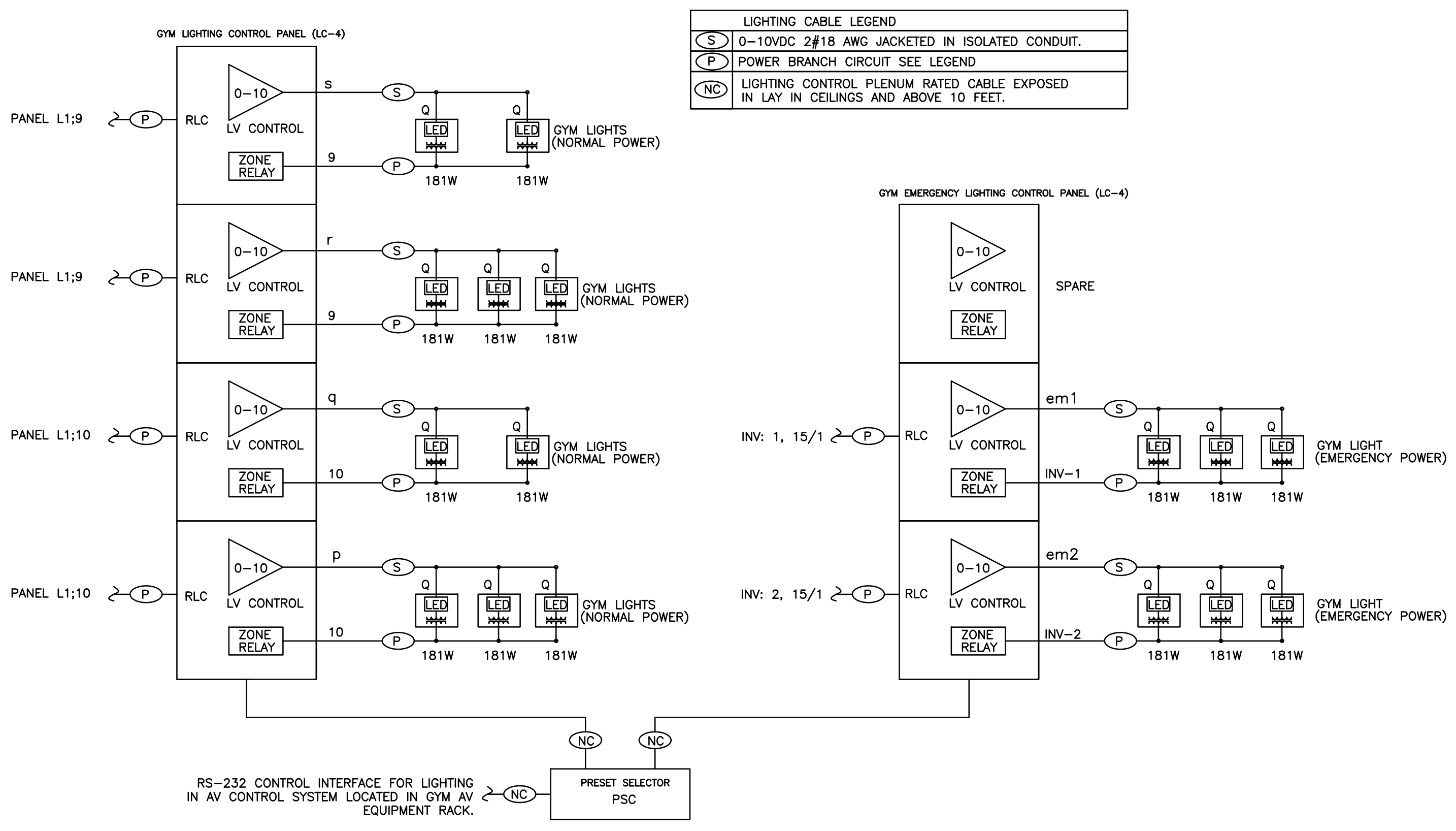
ZONE LIGHTING CONTROL SEQUENCE					
ZONE	AREA	DESCRIPTION	MANUAL OR	AV	REMARKS
a	MULTIPURPOSE A	VIDEO AMBIENT CONTROL	PSC	YES	FOUR PRESETS TBD
b	MULTIPURPOSE A	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
c	MULTIPURPOSE B	VIDEO AMBIENT CONTROL	PSC	YES	FOUR PRESETS TBD
d	MULTIPURPOSE B	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
e	NORTH EXTERIOR	AUTOMATIC TOD CONTROL	NO	YES	ASTRONOMICAL AND TOD CONTROL
f	SOUTH EXTERIOR	AUTOMATIC TOD CONTROL	NO	NO	ASTRONOMICAL AND TOD CONTROL
g	TEEN LOUNGE	VIDEO AMBIENT CONTROL	PSC	YES	FOUR PRESETS TBD
h	TEEN LOUNGE	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
i	TEEN LOUNGE	AMBIENT CONTROL	PSC	YES	FOUR PRESETS TBD
j	READING/TECH	GENERAL LEVEL CONTROL	PSC	NO	FOUR PRESETS TBD
k	READING/TECH	AMBIENT CONTROL	PSC	NO	FOUR PRESETS TBD
l	INT. CORRIDORS	AUTOMATIC TOD CONTROL	PSC	NO	TOD/MANUAL FOUR PRESETS TBD
m	RECEPTIONIST	AUTOMATIC TOD CONTROL	PSC	NO	TOD/MANUAL FOUR PRESETS TBD
n	LOBBY DOWNLIGHTS	AUTOMATIC TOD CONTROL	PSC	NO	TOD/MANUAL FOUR PRESETS TBD
o	LOBBY UP LIGHTS	AUTOMATIC TOD CONTROL	PSC	NO	TOD/MANUAL FOUR PRESETS TBD
p	GYM WEST	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
q	GYM WEST CENT.	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
r	GYM EAST CENT.	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
s	GYM EAST	GENERAL LEVEL CONTROL	PSC	YES	FOUR PRESETS TBD
t	WEIGHT ROOM	GENERAL LEVEL CONTROL	PSC	NO	FOUR PRESETS TBD
em1	GYM NORTH	EMERGENCY LIGHTING	PSC	YES	FOUR PRESETS TBD/MINIMUM
em2	GYM SOUTH	EMERGENCY LIGHTING	PSC	YES	FOUR PRESETS TBD/MINIMUM

NOTES:  
1. ALL CONTROL SYSTEMS ARE STANDALONE WITHOUT CENTRAL NETWORK CONTROL.  
2. GYMNASIUM SYSTEM IS SHOWN AS "TYPICAL" CONFIGURATION. OTHERS ARE SIMILAR IN GENERAL ARRANGEMENT.  
3. ALL ZONES ARE 0-10VDC DIMMABLE AND ARE ACTIVATED BY PRESET CONFIGURATION. CONFIGURATION TO BE DETERMINED IN SHOP DRAWINGS.  
4. AUDIO-VISUAL CONTROL SYSTEMS ARE PROVIDED FOR SPACES INDICATED AS "AV". THE AV TOUCH SCREEN WILL PROVIDE CONTROL OF PRESETS.  
5. PRESET CONTROLS ARE PROVIDED WITH MANUAL DIMMING ADJUSTMENT FOR EACH ZONE  
6. EMERGENCY LIGHTING ZONES ARE CONTROLLED WITH PRESETS BUT HAVE A MINIMUM SETTING FOR EMERGENCY ILLUMINATION 24/7.

LIGHTING FIXTURE SCHEDULE								
SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTS PER UNIT	LAMP TYPE	MOUNTING HEIGHT	TYPE MOUNTING	REMARKS
A	2X2 VOLUMETRIC RECESSED	LITHONIA	2VTL2-48LADP-GZ1-LP840	40	LED	CLG	RECESSED CEILING	PROVIDE DRIVERS FOR 0-10VDC DIMMING CONTROL TO 1%.
AE	2X2 VOLUMETRIC RECESSED	LITHONIA	2VTL2-48LADP-GZ1-LP840-E10WCP	40	LED	CLG	RECESSED CEILING	WITH 10W CONSTANT POWER EMERGENCY BATTERY PACK
B	2X2 LED FLAT PANEL	LITHONIA	EPANL 2X2 4000LM 80CRI 40K MIN1 ZT MVOLT GMF	32	LED	CLG	RECESSED CEILING	PROVIDE DRIVERS FOR 0-10VDC DIMMING CONTROL TO 1%.
BE	2X2 LED TROFFER	LITHONIA	EPANL 2X2 4000LM 80CRI 40K MIN1 ZT MVOLT E10WCP GMF	32	LED	CLG	RECESSED CEILING	WITH 10W CONSTANT POWER EMERGENCY BATTERY PACK
C	STRIP	LITHONIA	ZL1N L48 SMR 5000LM LLENS MVOLT 40K 80CRI GALV WZ48	34	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	PROVIDE WIRE GUARD. WALL MOUNTED WHERE SHOWN IN MECHANICAL ROOMS.
D	2X2 RECESSED CEILING	KENALL	CSED22-45TD-120-PAF-PAH-SYM-FN	45	LED	CLG	RECESSED CEILING	WASHABLE, GASKETED FIXTURE FOR USE IN FOOD PREPARATION AREAS.
E	EMERGENCY LIGHT	LITHONIA	ELM2 LED SD	3	LED	8'-6" AFF	WALL	WALL MOUNT EMERGENCY LIGHT
F1	ACOUSTIC SHADE	LIGHTART	34 MN ZN STD 830 BP BK BP	12	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	TYPE L ACOUSTIC SHADE, COLORS VERIFIED BY ARCHITECT
F2	ACOUSTIC SHADE	LIGHTART	27 MN ZN STD 830 BP BK BP	7	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	TYPE M ACOUSTIC SHADE, COLORS VERIFIED BY ARCHITECT
F3	ACOUSTIC SHADE	LIGHTART	22 MN ZN STD 830 BP BK BP	7	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	TYPE S ACOUSTIC SHADE, COLORS VERIFIED BY ARCHITECT
K	PENDANT	LEDALITE TRUGROOVE	29 0 6L AC QQ 08K D E	43.2	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	COLOR TO BE DETERMINED BY ARCHITECT
L	RECESSED	LEDALITE TRUGROOVE	39 0 1L AD QS4 08 7 D E	29.7	LED	CLG	RECESSED INTO GYPBOARD	COLOR TO BE DETERMINED BY ARCHITECT
M	WALL MOUNT	LEDALITE TRUGROOVE	29 2 6L AC WW 087 D E	23.3	LED	8'-0"	WALL MTD ABOVE VANITIES	COLOR TO BE DETERMINED BY ARCHITECT
Q	HIGH BAY PENDANT	LITHONIA	JEBL 24L 40K 80CRI WH WG2 M6 SC120 DALR2 M4	161	LED	20'-0" AFF	PENDANT BELOW STRUCTURE	WITH WIRE GUARD, REFLECTOR AND SAFETY CABLE
R	IN GRADE FLAG LIGHT	HYDREL	PDX10B 18LED WHT41K MVOLT NSP FLC	90	LED	IN GRADE	IN GRADE FOR FLAG ILLUMINATION	
S	RECESSED DOWN LIGHT	LITHONIA	LDN6 40/20 L06 WR LSS MVOLT GZ1	22.6	LED	CLG	RECESSED CEILING	
T	DECORATIVE	BETA CALCO	1AX12/2AX13 J4 CB1 CCD L0 W1 Y1	389	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	ALL END CAPS, AND HARDWARE REQUIRED FOR CONFIGURATION SHOWN ON THE DRAWINGS.
T1	DECORATIVE	BETA CALCO	1AX12/1AX13 J4 CB1 CCD L0 W1 Y1	257	LED	10'-0" AFF	PENDANT BELOW STRUCTURE	ALL END CAPS, AND HARDWARE REQUIRED FOR CONFIGURATION SHOWN ON THE DRAWINGS.
W	WALL MOUNT	LITHONIA	OLWX1 LED 40W 40K	40	LED	10'0" ABOVE GRADE	EXTERIOR WALL MOUNTED	
Z	EGRESS LIGHT	LIGHTALARMS	CAMACSDDB-FT	12	LED	9'-0"	EXTERIOR EGRESS LIGHT	EMERGENCY EGRESS LIGHTING WITH -4F TO +104F TEMPERATURE RANGE
XL	EXIT LIGHT	LITHONIA	EDG-G-EL-SD-WM	4.5	LED	8'-6" AFF	WALL	LED EXIT SIGN WITH CHEVRONS AS REQD. SINGLE/DOUBLE FACE, NICAD BATTERY

FIXTURE SCHEDULE ABBREVIATIONS:  
LED - LIGHT EMITTING DIODE C - CEILING O.B. - OUTLET BOX S - SURFACE L.I. - LAY-IN

FIXTURE SCHEDULE NOTES:  
1. CATALOG NUMBERS ARE PROVIDED FOR REFERENCE ONLY. DETERMINE EXACT CATALOG NUMBER FROM FIXTURE APPLICATION AND DESCRIPTIONS.  
2. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO PROJECT BID DATE.  
3. ALL DRIVERS TO BE 120 VOLTS UNLESS SHOWN OTHERWISE.  
4. EACH LED DRIVER SHALL BE FUSED WITH APPROVED DUAL ELEMENT FUSE.  
5. ALL FIXTURES SHALL BE WIRED WITH FLEX WITH A SEPARATE GREEN GROUND WIRE.  
6. ALL FIXTURES SHALL HAVE JOINING PLATES, END CAPS, CANOPIES, ETC.  
7. FIXTURE MOUNTING AND SUSPENSION SHALL BE AS APPROVED BY ENGINEER. NO COMBUSTIBLE MATERIALS SHALL BE USED.  
8. MOUNTING AND SUPPORT DETAILS FOR LIGHTING FIXTURES SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE THE FIXTURES ARE INSTALLED.  
9. FIXTURE OUTLET BOX LOCATIONS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND APPROXIMATE IN LOCATION. EXACT POSITION OF THE OUTLET BOX DEPENDS ON THE FIXTURE AND THE MOUNTING DETAIL.

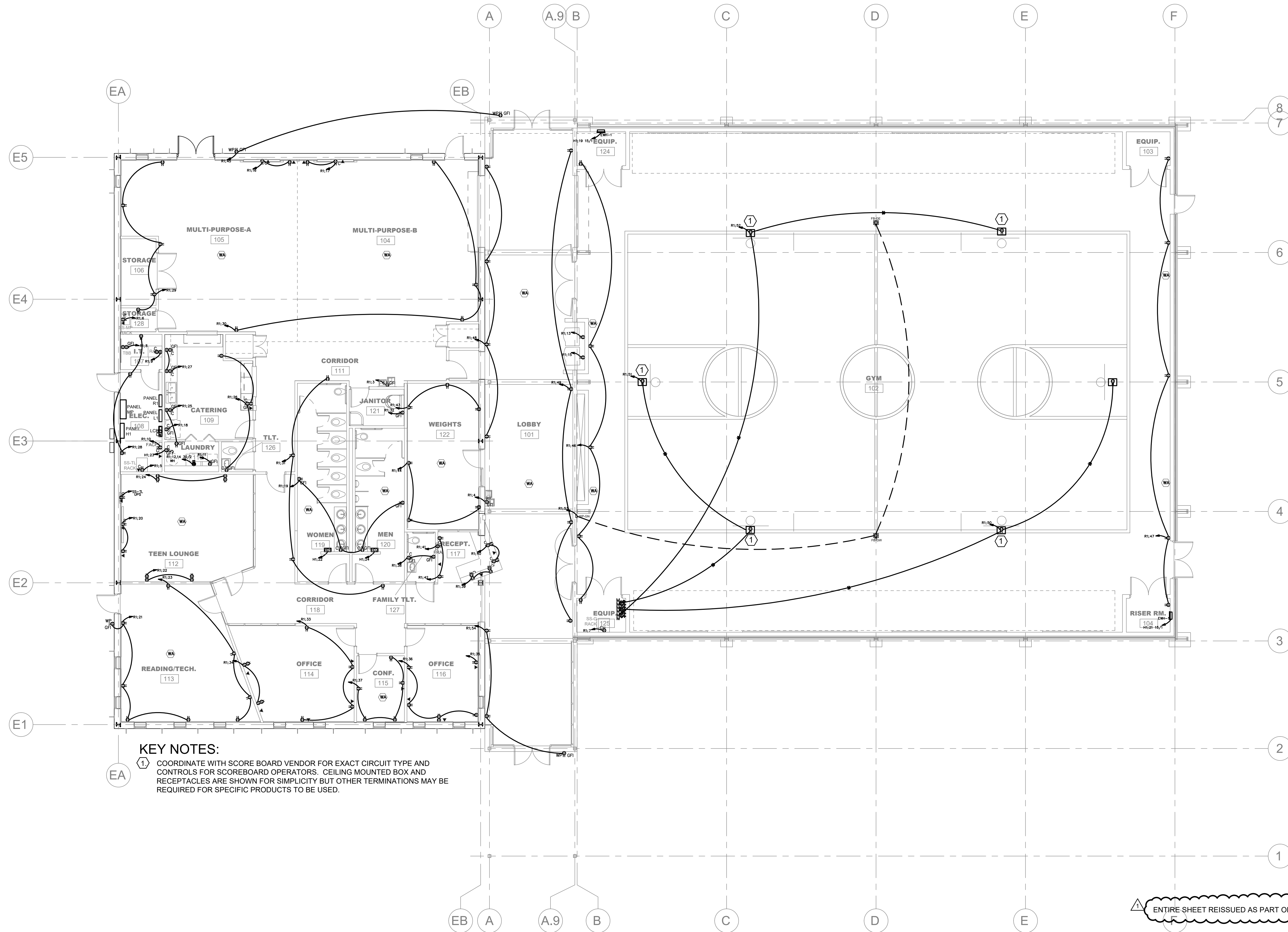


GYM LIGHTING CONTROL SINGLE LINE  
NTS E2.1

ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM

ISSUE DATES  
INITIAL ISSUE 12-20-19  
ADDENDUM 4 01-09-20

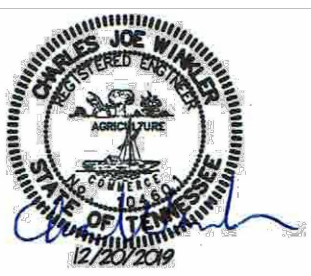
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**KEY NOTES:**

1 COORDINATE WITH SCORE BOARD VENDOR FOR EXACT CIRCUIT TYPE AND CONTROLS FOR SCOREBOARD OPERATORS. CEILING MOUNTED BOX AND RECEPTACLES ARE SHOWN FOR SIMPLICITY BUT OTHER TERMINATIONS MAY BE REQUIRED FOR SPECIFIC PRODUCTS TO BE USED.

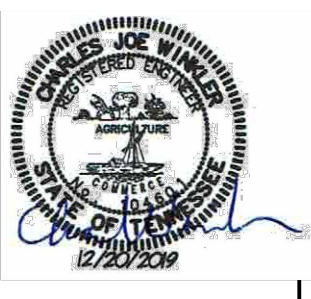
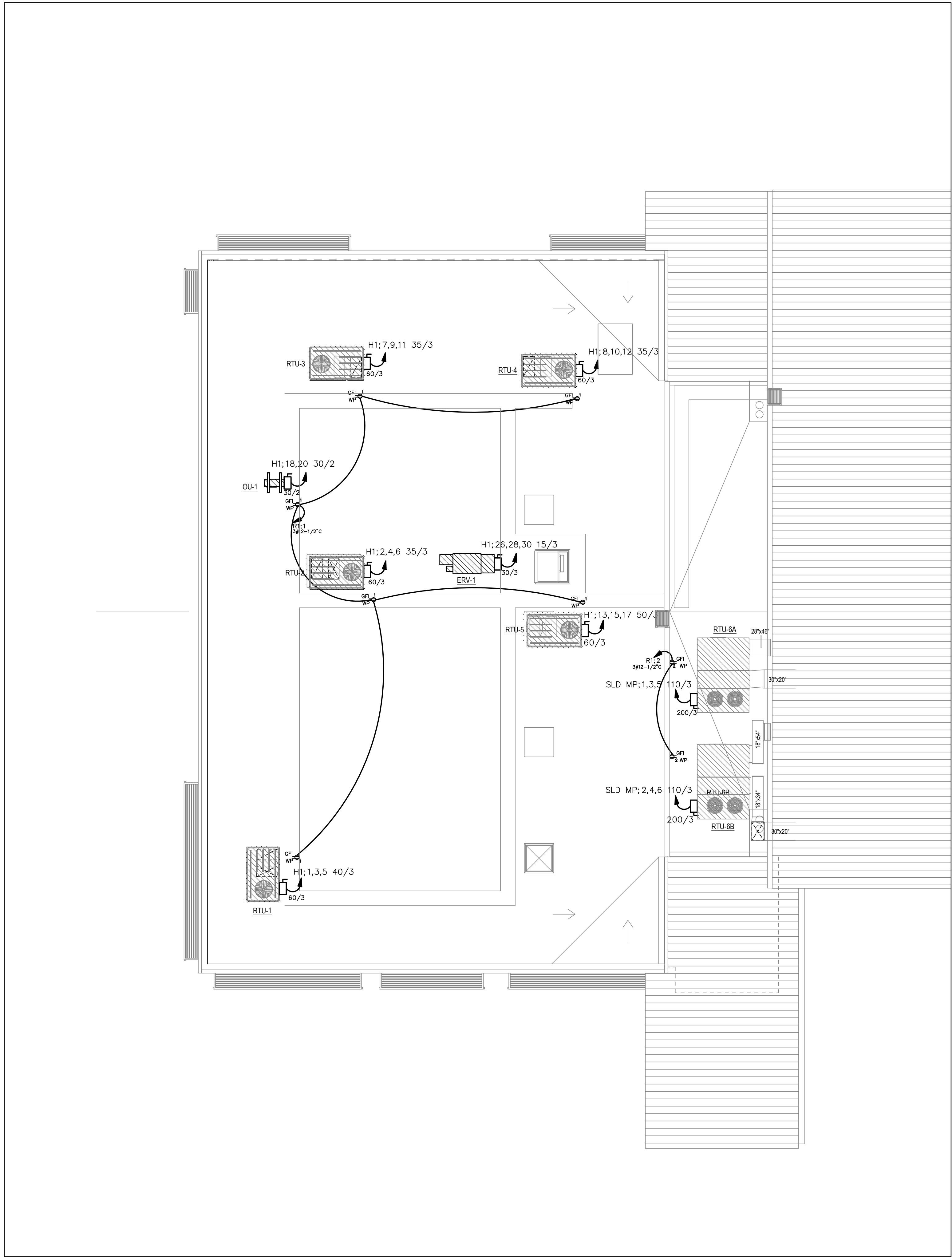
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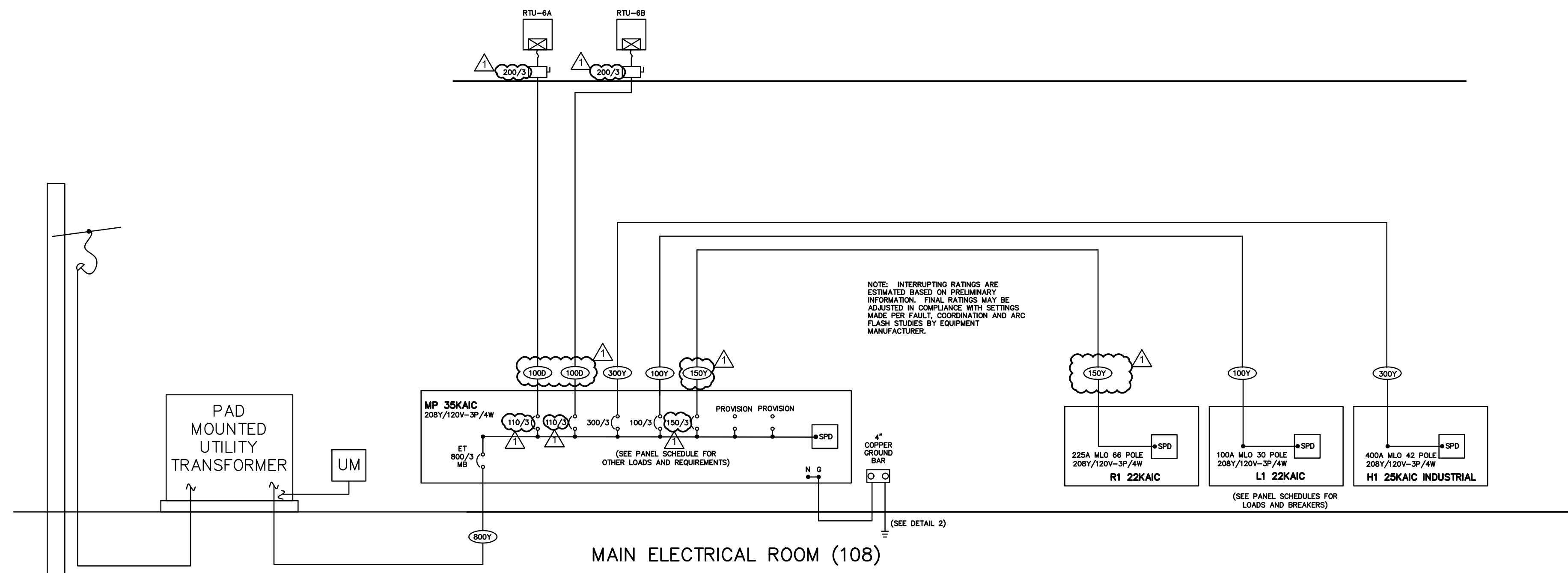




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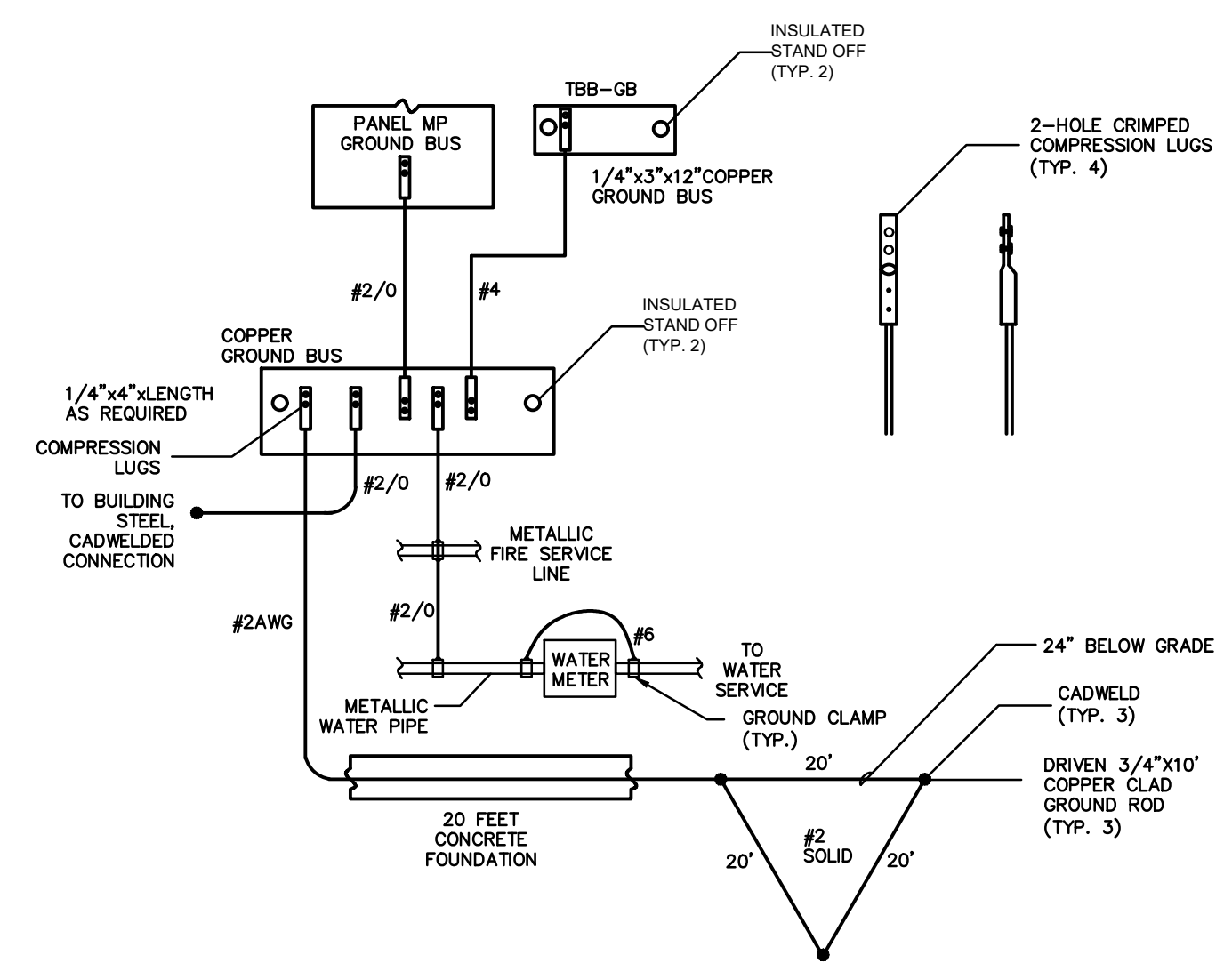
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JOB NO. 18-072 | D'WN JR TT | CK'D CJWR



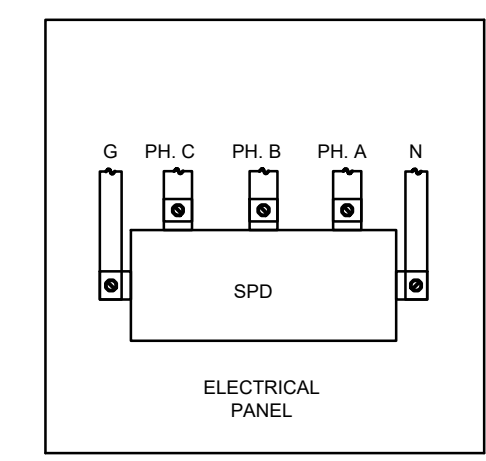
UTILITY YARD

SINGLE LINE POWER  
NTS E3.01



GROUND SYSTEM  
E3.01 N.T.S.

NOTES:  
1. SURGE PROTECTIVE DEVICE FACTORY INSTALLED INSIDE PANEL. BUS CONNECTED FOR PHASE AND NEUTRAL CONDUCTORS. BOND GROUND TO CAN.



INTERNAL PANEL SPD DETAIL  
E3.01 N.T.S.

3 WIRE FEEDERS		FEEDER SIZES FOR SINGLE LINE DIAGRAM		4 WIRE FEEDERS (SEE NOTE 1)	
CKT	1750V OR 208Y/120V (EMF, RGS or SMC)	NOTE 3	CKT	1750V OR 208Y/120V (EMF, RGS or SMC)	NOTE 3
20A1P	2#12, 1#12S, 1/2"C	+	20Y	3#12, 1#12N & 1#12S, 1/2"C	+
20A2P	2#12 & 1#12S, 1/2"C	+	30Y	4#10 & 1#10S, 3/4"C	+
200	3#12 & 1#10S, 1/2"C	+	40Y	4#8 & 1#10S, 3/4"C	+
30A2P	2#10 & 1#10S, 1/2"C	+	50Y	4#6 & 1#10S, 1"C	+
300	3#10 & 1#10S, 1/2"C	+	60Y	4#6 & 1#10S, 1"C	+
400	3#8 & 1#10S, 3/4"C	+	70Y	4#4 & 1#8S, 1-1/4"C	+
600	3#6 & 1#10S, 3/4"C	+	80Y	4#4 & 1#8S, 1-1/4"C	+
700	3#4 & 1#8S, 1"C	+	90Y	4#3 & 1#8S, 1-1/4"C	+
800	3#3 & 1#8S, 1"C	+	100Y	4#2 & 1#8S, 1-1/2"C	+
900	3#3 & 1#8S, 1"C	+	110Y	4#2 & 1#8S, 1-1/2"C	+
1000	3#2 & 1#8S, 1-1/4"C	+	125Y	4#1 & 1#8S, 2"C	+
1100	3#2 & 1#8S, 1-1/4"C	+	150Y	4#10 & 1#8S, 2"C	+
1250	3#1 & 1#8S, 1-1/2"C	+	175Y	4#20 & 1#8S, 2"C	+
1500	3#10 & 1#8S, 2"C	+	200Y	4#30 & 1#8S, 2-1/2"C	+
1750	3#20 & 1#8S, 2"C	+	225Y	4#40 & 1#8S, 2-1/2"C	+
2000	3#30 & 1#8S, 2"C	+	250Y	4#250KCMIL & 1#4S, 2-1/2"C	+
2250	3#40 & 1#8S, 2"C	+	300Y	4#350KCMIL & 1#4S, 3"C	+
2500	3#50KCMIL & 1#4S, 2-1/2"C	+	350Y	4#400KCMIL & 1#3S, 3"C	+
3000	3#550KCMIL & 1#4S, 3"C	+	400Y	4#500KCMIL & 1#3S, 4"C	+
3500	3#400KCMIL & 1#3S, 3"C	+	450Y	2 RUNS EACH 4#400 & 1#3S, 2-1/2"C	+
4000	3#300KCMIL & 1#3S, 3-1/2"C	+	500Y	2 RUNS EACH 4#350KCMIL & 1#3S, 3"C	+
4500	2 RUNS EACH 3#400 & 1#3S, 2-1/2"C	+	600Y	2 RUNS EACH 3#350KCMIL & 1#10S, 3"C	+
5000	2 RUNS EACH 3#350KCMIL & 1#3S, 2-1/2"C	+	700Y	2 RUNS EACH 4#300KCMIL & 1#10S, 4"C	+
6000	2 RUNS EACH 3#300KCMIL & 1#10S, 3"C	+	800Y	2 RUNS EACH 4#250KCMIL & 1#10S, 4"C	+
8000	2 RUNS EACH 3#250KCMIL & 1#10S, 3-1/2"C	+	1000Y	3 RUNS EACH 4#400KCMIL & 1#20S, 3-1/2"C	+
10000	3 RUNS EACH 3#400KCMIL & 1#20S, 3"C	+	1100Y	3 RUNS EACH 4#350KCMIL & 1#20S, 4"C	+
11000	3 RUNS EACH 3#350KCMIL & 1#20S, 3-1/2"C	+	NOTE 2	4 RUNS EACH 4#300KCMIL & 1#20S, 4"C	+
12000	4 RUNS EACH 3#300KCMIL & 1#20S, 3"C	+	1500Y	4 RUNS EACH 4#250KCMIL & 1#40S, 4"C	+
15000	4 RUNS EACH 3#250KCMIL & 1#40S, 3-1/2"C	+	NOTE 2	5 RUNS EACH 4#200KCMIL & 1#40S, 3-1/2"C	+
16000	5 RUNS EACH 3#200KCMIL & 1#40S, 3"C	+	1900Y	5 RUNS EACH 4#150KCMIL & 1#250KCMIL G, 4"C	+
19000	5 RUNS EA 3#200KCMIL & 1#250KCMIL G, 3-1/2"C	+	NOTE 2	6 RUNS EA 3#400KCMIL & 1#250KCMIL G, 3-1/2"C	+
20000	6 RUNS EACH 3#400KCMIL & 1#250KCMIL G, 3"C	+	2200Y	6 RUNS EACH 4#300KCMIL & 1#350KCMIL G, 4"C	+
22000	6 RUNS EA 3#300KCMIL & 1#350KCMIL G, 3-1/2"C	+	NOTE 2	7 RUNS EACH 4#250KCMIL & 1#350KCMIL G, 4"C	+
25000	7 RUNS EA 3#300KCMIL & 1#350KCMIL G, 3-1/2"C	+	3000Y	8 RUNS EACH 4#200KCMIL & 1#400KCMIL G, 4"C	+
30000	8 RUNS EA 3#300KCMIL & 1#400KCMIL G, 3-1/2"C	+	NOTE 2	10 RUNS EACH 4#200KCMIL & 1#500KCMIL G, 4"C	+
35000	10 RUNS EA 3#300KCMIL & 1#500KCMIL G, 3-1/2"C	+	3000Y	8 RUNS EACH 4#300KCMIL & 1#400KCMIL G, 4"C	+
40000	11 RUNS EA 3#300KCMIL & 1#500KCMIL G, 3-1/2"C	+	3800Y	10 RUNS EA 4#300KCMIL & 1#500KCMIL G, 4"C	+
41000	11 RUNS EA 3#250KCMIL & 1#500KCMIL G, 3-1/2"C	+	NOTE 2	11 RUNS EA 4#250KCMIL & 1#500KCMIL G, 3-1/2"C	+
PRIMARY 2575C, 4E, 103 W/100 CONDUIT TUBE			4100Y	11 RUNS EACH 4#200KCMIL & 1#500KCMIL G, 4"C	+

NOTE 1: PER NFPA 70 "ON A 4-WIRE, 3-PHASE WYE CIRCUIT WHERE THE MAJOR PORTION OF THE LOAD CONSISTS OF NON-LINEAR LOADS, HARMONIC CURRENTS ARE PRESENT IN THE NEUTRAL CONDUCTOR. THE NEUTRAL CONDUCTOR SHALL BE CONSIDERED A CURRENT CARRYING CONDUCTOR" REQUIRED ADJUSTMENTS SHALL BE APPLIED PER PROVISIONS OF 2014 NEC 310.15(B)(3)(A).

NOTE 2: USE OF NONSTANDARD CIRCUIT BREAKER SETTINGS IS RESTRICTED PER NEC 240.6, STANDARD AMPERE RATINGS.

NOTE 3: FOR 120/208 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET, INCREASE THE CONDUCTOR SIZE ONE GAUGE. FOR EVERY ADDITIONAL 50 FEET INCREASE THE CONDUCTOR SIZE ONE ADDITIONAL GAUGE.

NOTE 4: FOR 208 VOLT BRANCH CIRCUITS LONGER THAN 150 FEET, INCREASE THE CONDUCTOR SIZE BY 1 GAUGE. FOR EVERY ADDITIONAL 75 FEET, INCREASE THE CONDUCTOR SIZE ONE ADDITIONAL GAUGE.

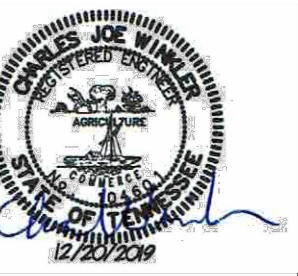
\* DENOTES 200% NEUTRAL.





**East Lake YFD Center  
 Improvements**

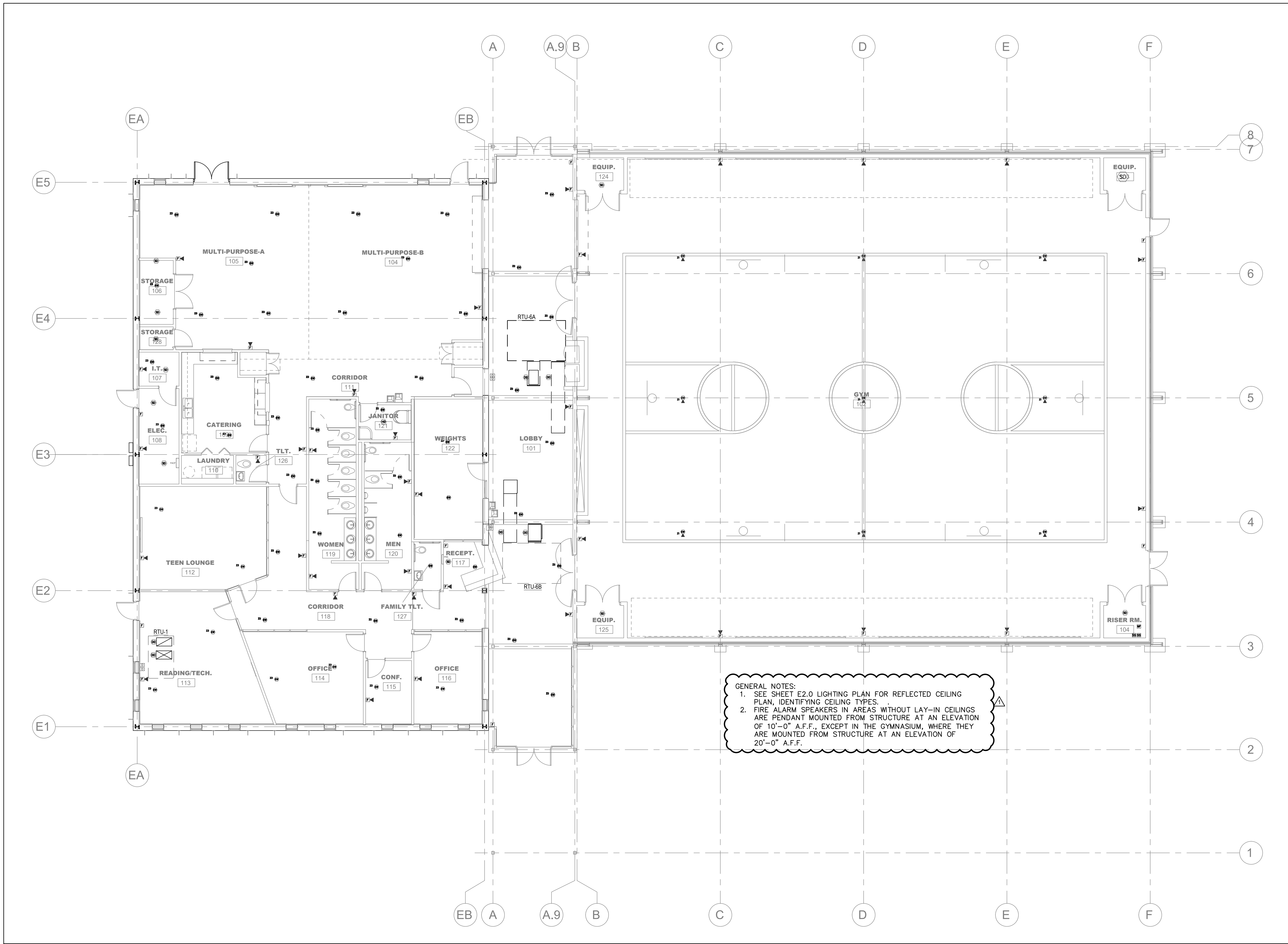
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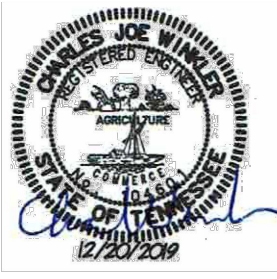
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JOB NO. | D'WN | CK'D  
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**E4.0**  
 FIRE ALARM PLAN



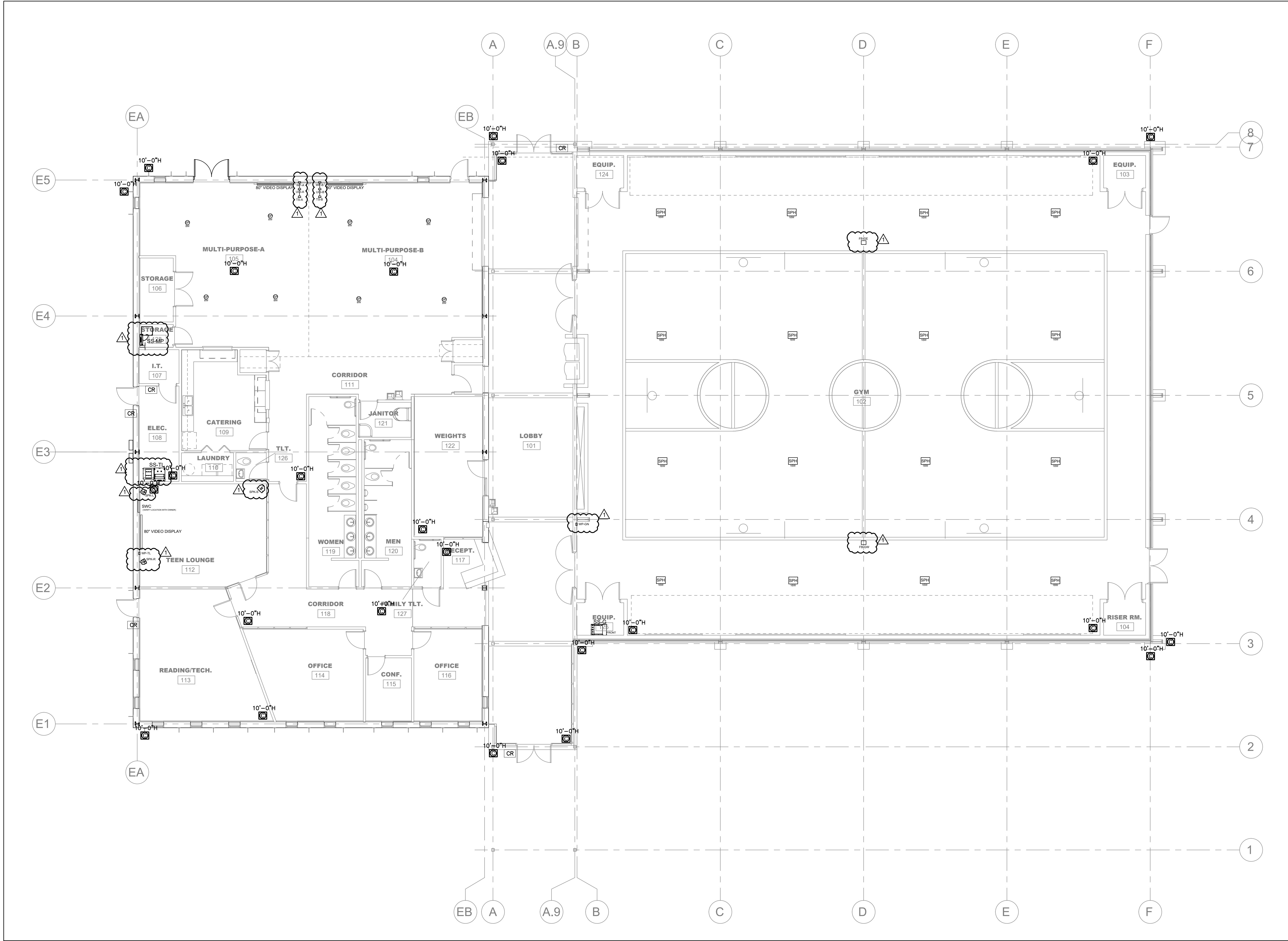


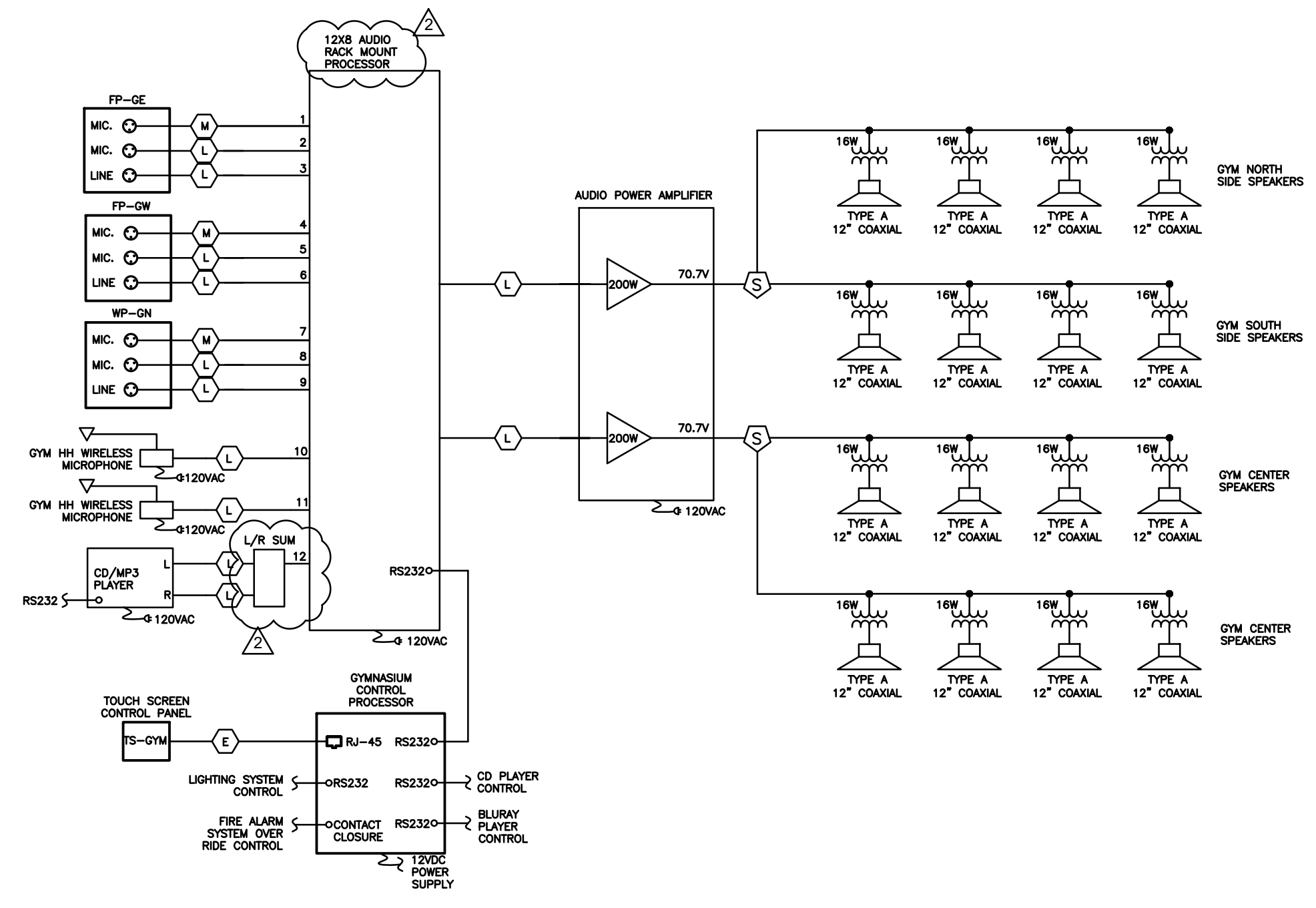


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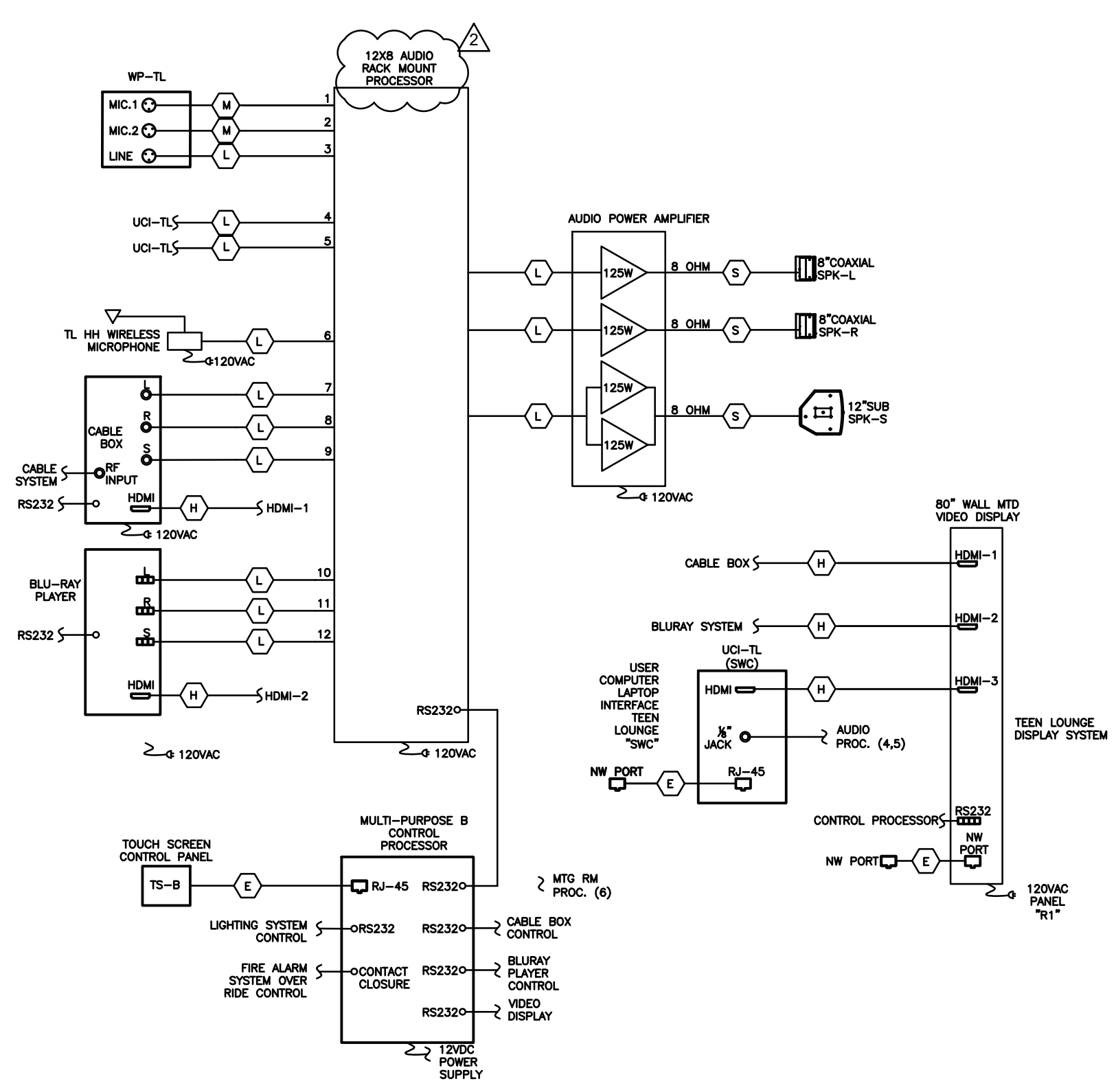
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**E5.0**  
 AUXILIARY PLAN

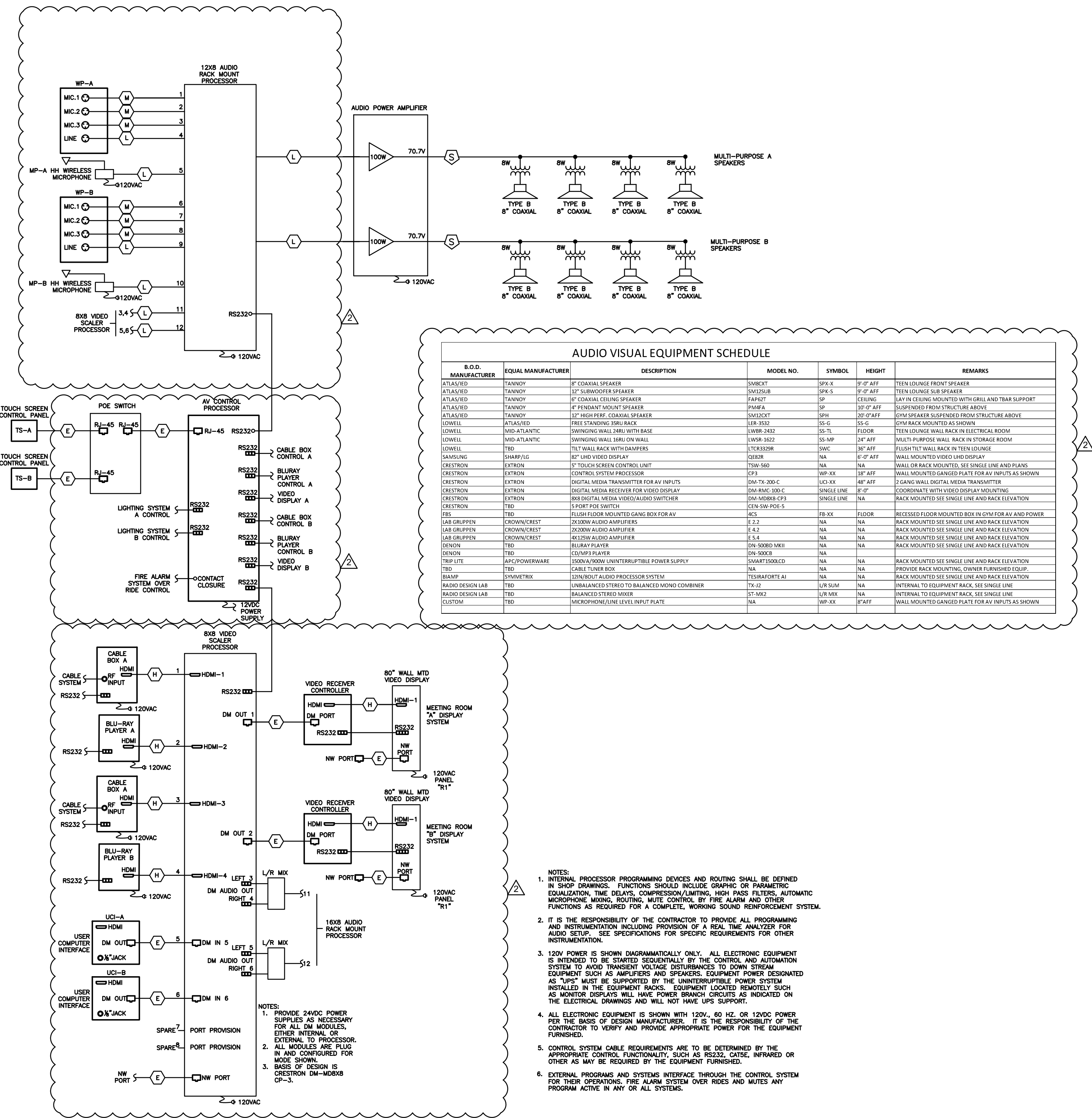




GYMNASIUM SOUND SYSTEM SINGLE LINE DIAGRAM



TEEN LOUNGE SOUND SYSTEM SINGLE LINE DIAGRAM



MULTI-PURPOSE ROOMS SOUND SYSTEM SINGLE LINE DIAGRAM

**AUDIO VISUAL EQUIPMENT SCHEDULE**

B.O.D.	MANUFACTURER	EQUAL MANUFACTURER	DESCRIPTION	MODEL NO.	SYMBOL	HEIGHT	REMARKS
ATTACHED	TANNAY	8" COAXIAL SPEAKER	SMRKT	SPK-X	SP-X	9' 0" AFF	TEEN LOUNGE FRONT SPEAKER
ATTACHED	TANNAY	12" SUBWOOFER SPEAKER	SPK12M-B	SPK-S	9' 0" AFF	TEEN LOUNGE SUB SPEAKER	
ATTACHED	TANNAY	8" COAXIAL CEILING SPEAKER	FAHRT	SP	CEILING	8" IN CEILING MOUNTED WITH GRILL AND TRAP SUPPORT	
ATTACHED	TANNAY	4" PENDANT MOUNT SPEAKER	PM4PA	SP	10' 0" AFF	SUSPENDED FROM STRUCTURE ABOVE	
ATTACHED	TANNAY	12" HIGH FREQ. COAXIAL SPEAKER	SMRKT	SPH	10' 0" AFF	GYM SPEAKER SUSPENDED FROM STRUCTURE ABOVE	
DETACHED	ATLANTIC	FREE STANDING WALL RACK	WR-352	SS-C	35" G	GYM RACK INSTALLED AS SHOWN	
DETACHED	MTD-ATLANTIC	SWYRING WALL 2MR WITH BASE	WMR-2432	SS-TL	FLOOR	TEEN LOUNGE WALL RACK IN ELECTRICAL ROOM	
DETACHED	MTD-ATLANTIC	SWYRING WALL 1MR ON WALL	WMR-1432	SS-MP	14' AFF	MULTI-PURPOSE WALL RACK IN STORAGE ROOM	
DETACHED	TBD	TILT WALL RACK WITH DAMPERS	WTR-3220R	SMC	10' AFF	FLOUSH TILT WALL RACK IN TEEN LOUNGE	
DETACHED	SHARP FILS	8" LCD VIDEO DISPLAY	REBR	NA	8' 0" AFF	WALL MOUNTED VIDEO LCD DISPLAY	
DETACHED	EXTRON	15" TOUCH SCREEN CONTROL UNIT	T50-960	NA	78"	WALL OR RACK MOUNTED. SEE SINGLE LINE AND PLANS	
DETACHED	EXTRON	CONTROL SYSTEM PROCESSOR	CP-3	WP-XX	10' AFF	WALL MOUNTED GANGED PLATE FOR AV INPUTS AS SHOWN	
DETACHED	EXTRON	DIGITAL MEDIA TRANSMITTER FOR AV INPUTS	DM-TX-200-C	LCI-XX	48" AFF	2 GANG WALL DIGITAL MEDIA TRANSMITTER	
DETACHED	EXTRON	DIGITAL MEDIA RECEIVER FOR VIDEO DISPLAY	DM-RXC-300-C	SS-C	36" AFF	COORDINATE WITH VIDEO DISPLAY MOUNTING	
DETACHED	EXTRON	808 DIGITAL MEDIA VIDEO/AUDIO SWITCHER	DM-MOR8-CP3	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
DETACHED	TBD	15" CRT FIBER OPTIC	CRF-50	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
FBS	TBD	FLOUSH FLOOR MOUNTED GANG BOX FOR AV	GC5	FR-XX	FLOOR	RECESSED FLOOR MOUNTED BOX IN GYM FOR AV AND POWER	
JAB GRIPPEN	CROWN/CHEST	2X200W AUDIO AMPLIFIERS	E 2.2	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
JAB GRIPPEN	CROWN/CHEST	2X200W AUDIO AMPLIFIERS	E 4.2	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
JAB GRIPPEN	CROWN/CHEST	4X150W AUDIO AMPLIFIER	E 5.4	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
GENON	TBD	15" CRT FIBER OPTIC	DM-500B-M8H	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
GENON	TBD	15" CRT FIBER OPTIC	DM-500B	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
TRIP LITE	AP/POWERWARE	1000VA/200W UNINTERRUPTIBLE POWER SUPPLY	SMART1500C	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
TBD	TBD	CABLE TRAY BOX	NA	NA	NA	PROVIDE BACK MOUNTING, COVER FOR BUSES ONLY	
BLAMP	SYMMETRIX	120V/100V AUDIO PROCESSOR SYSTEM	TRHAPORT-AI	NA	NA	RACK MOUNTED SEE SINGLE LINE AND RACK ELEVATION	
RADIO DESIGN LAB	TBD	UNBALANCED STEREO TO BALANCED MONO CONVERTER	TK-12	L/R-SUM	NA	INTERNAL TO EQUIPMENT RACK. SEE SINGLE LINE	
RADIO DESIGN LAB	TBD	BALANCED STEREO MIXER	ST-MX2	L/R-MIX	NA	INTERNAL TO EQUIPMENT RACK. SEE SINGLE LINE	
CUSTOM	TBD	MICROPHONE LINE LEVEL INPUT PLATE	WP-XX	8" AFF	NA	WALL MOUNTED GANGED PLATE FOR AV INPUTS AS SHOWN	

- NOTES:
- INTERNAL PROCESSOR PROGRAMMING DEVICES AND ROUTING SHALL BE DEFINED IN SHOP DRAWINGS. FUNCTIONS SHOULD INCLUDE GRAPHIC OR PARAMETRIC EQUALIZATION, TIME DELAYS, COMPRESSION/LIMITING, HIGH PASS FILTERS, AUTOMATIC MICROPHONE MUTE, ROUTING, MUTE CONTROL, BY FIRE ALARM AND OTHER FUNCTIONS AS REQUIRED FOR A COMPLETE, WORKING SOUND REINFORCEMENT SYSTEM.
  - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL PROGRAMMING AND INSTRUMENTATION INCLUDING PROVISION OF A REAL TIME ANALYZER FOR AUDIO SETUP. SEE SPECIFICATIONS FOR SPECIFIC REQUIREMENTS FOR OTHER INSTRUMENTATION.
  - 120V POWER IS SHOWN DRAMMATICALLY ONLY. ALL ELECTRONIC EQUIPMENT IS INTENDED TO BE STARTED SEQUENTIALLY BY THE CONTROL AND AUTOMATION SYSTEM TO AVOID TRANSIENT VOLTAGE DISTURBANCES TO DOWN STREAM EQUIPMENT SUCH AS AMPLIFIERS AND SPEAKERS. EQUIPMENT DESIGNATED AS "UPS" MUST BE SUPPORTED BY THE UNINTERRUPTIBLE POWER SYSTEM INSTALLED IN THE EQUIPMENT RACKS. EQUIPMENT LOCATED REMOTELY SUCH AS MONITOR DISPLAYS WILL HAVE POWER BRANCH CIRCUITS AS INDICATED ON THE ELECTRICAL DRAWINGS AND WILL NOT HAVE UPS SUPPORT.
  - ALL ELECTRONIC EQUIPMENT IS SHOWN WITH 120V, 60 HZ OR 120VDC POWER. PER THE BASIS OF DESIGN MANUFACTURER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND PROVIDE APPROPRIATE POWER FOR THE EQUIPMENT FURNISHED.
  - CONTROL SYSTEM CABLE REQUIREMENTS ARE TO BE DETERMINED BY THE APPROPRIATE CONTROL FUNCTIONALITY, SUCH AS RS232, CAT5E, INFRARED OR OTHER AS MAY BE REQUIRED BY THE EQUIPMENT.
  - EXTERNAL PROGRAMS AND SYSTEMS INTERFACE THROUGH THE CONTROL SYSTEM FOR THEIR OPERATIONS. FIRE ALARM SYSTEM OVER RIDES AND MUTES ANY PROGRAM ACTIVE IN ANY OF ALL SYSTEMS.

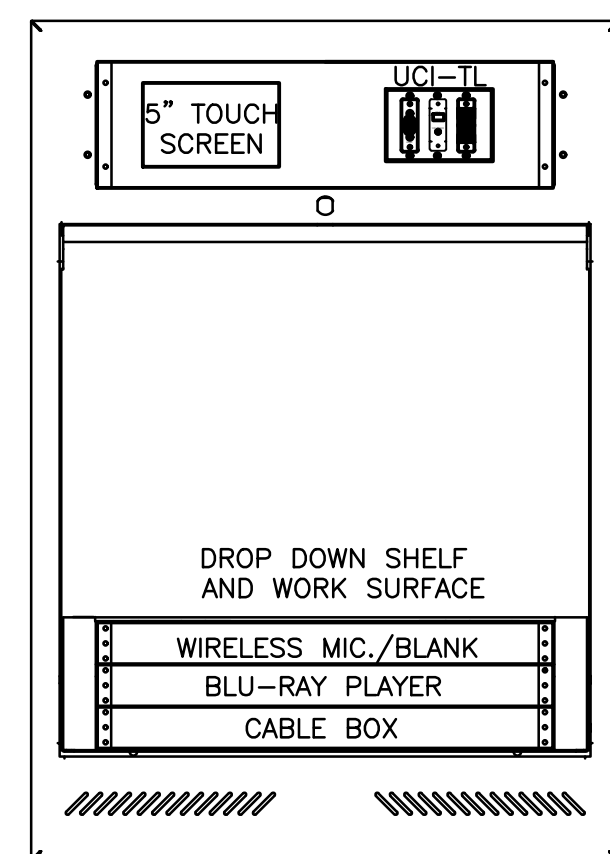
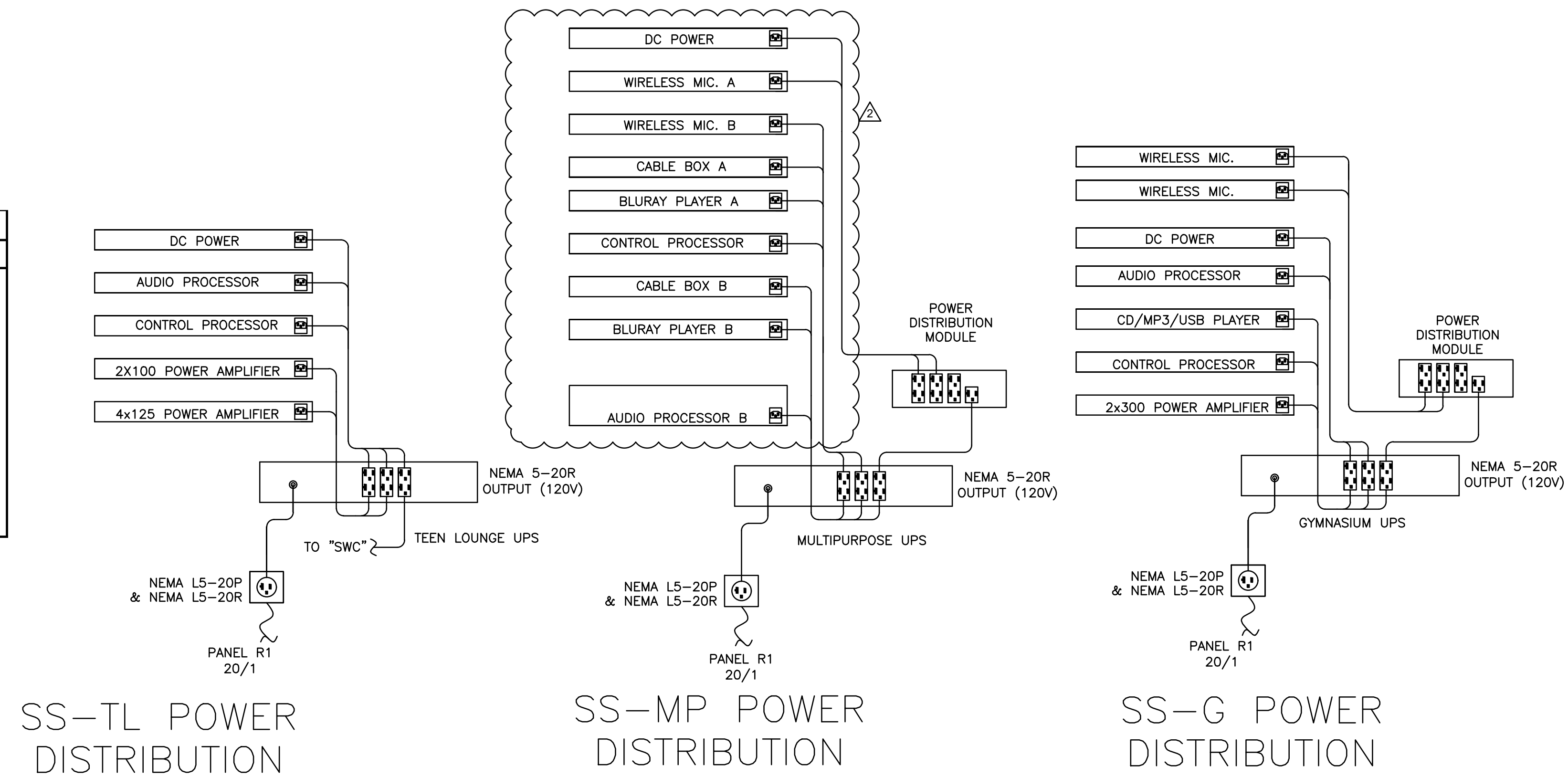
ENTIRE SHEET REISSUED AS PART OF THIS ADDENDUM

ISSUE DATES  
INITIAL ISSUE 12-20-19  
ADDENDUM 4 01-09-20  
ADDENDUM 6 01-14-20

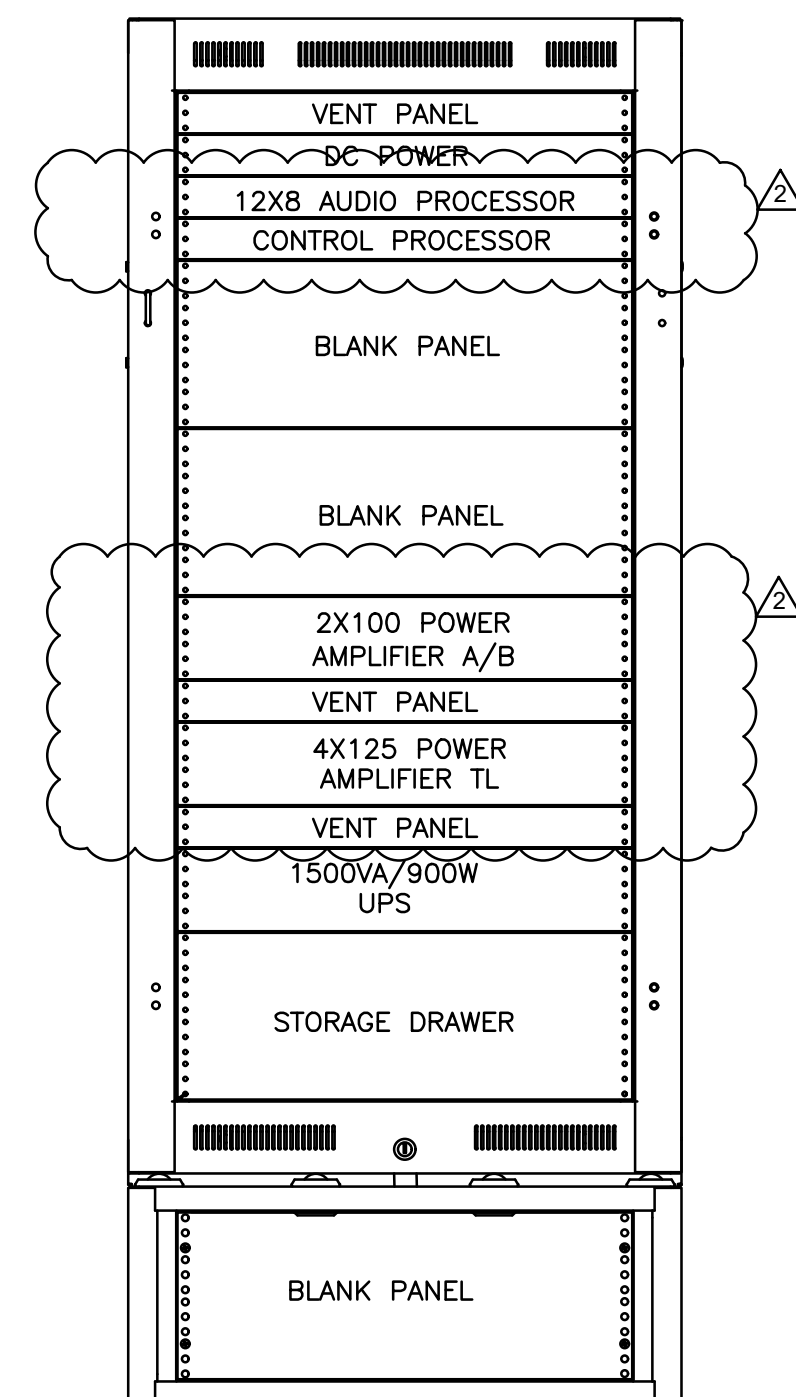
JOB NO. 18-072 | D'WN JR TT | CK'D C/JWR



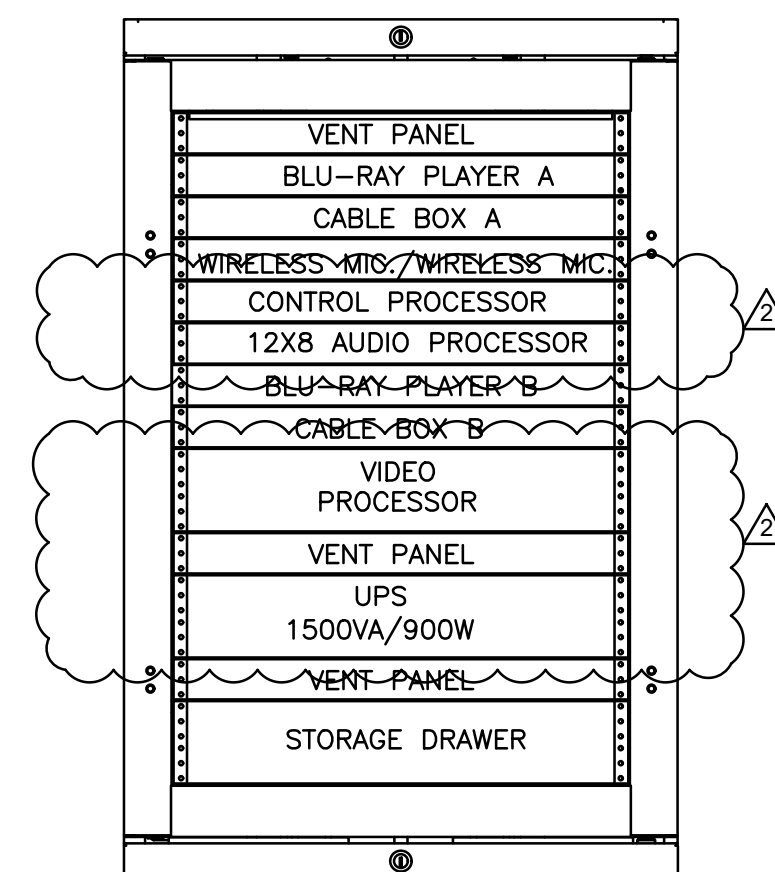
MISCELLANEOUS SOUND SYSTEM EQUIPMENT SCHEDULE		
QUANTITY	USE AREA	Description
4	ALL SYSTEMS	HANDHELD WIRED MICROPHONES
AS SHOWN	SEE SINGLE LINES	WIRELESS MICROPHONES
6	ALL SYSTEMS	MICROPHONE FLOOR STANDS
2	ALL SYSTEMS	MICROPHONE TABLE STANDS
8	ALL SYSTEMS	25 FOOT MICROPHONE CABLE
4	ALL SYSTEMS	50 FOOT MICROPHONE CABLE
4	ALL SYSTEMS	10 FOOT LINE LEVEL CABLE
4	ALL SYSTEMS	6 FOOT HDMI CABLE



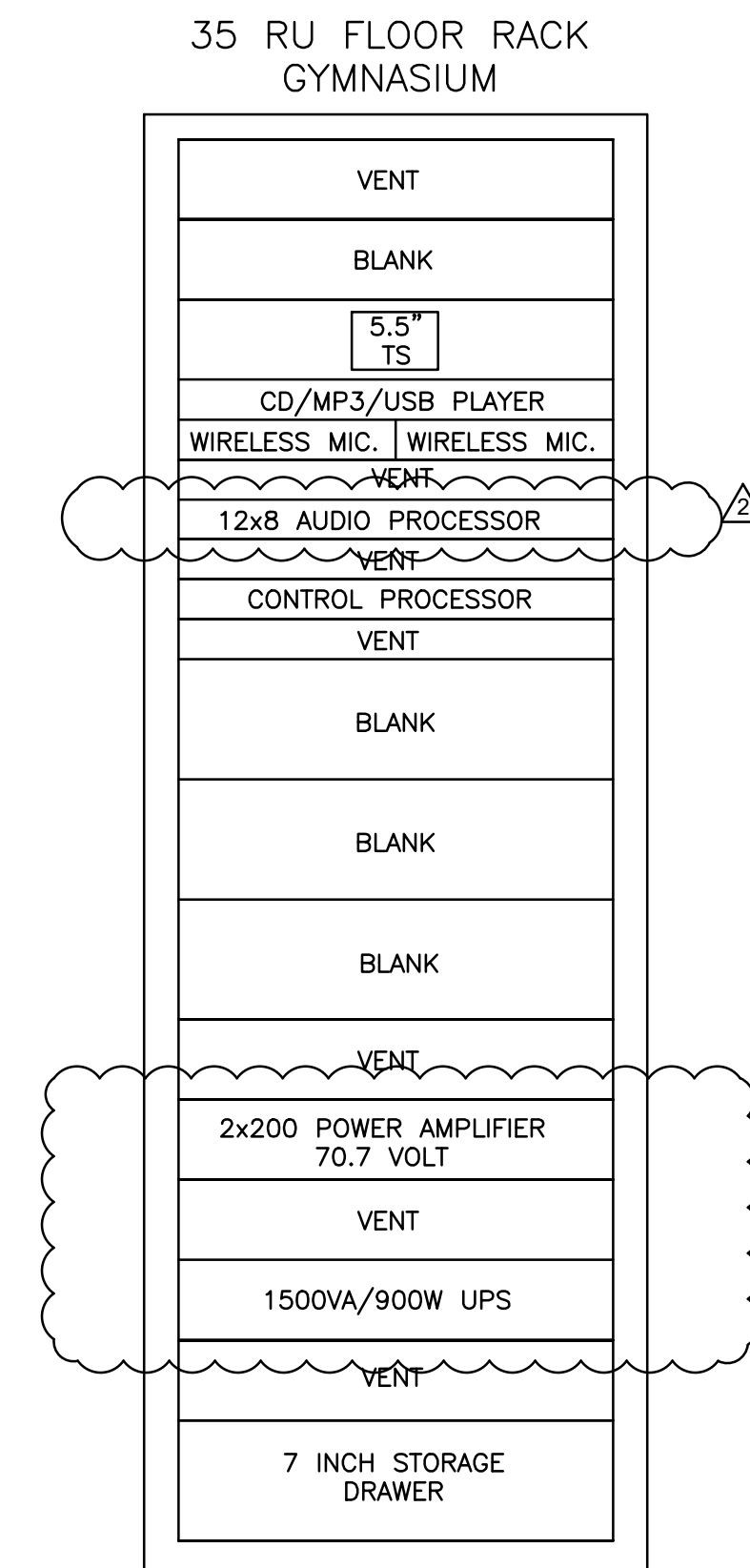
TEEN ROOM WALL CABINET "SWC"  
N.T.S.



TEEN LOUNGE RACK "SS-TL"  
N.T.S.

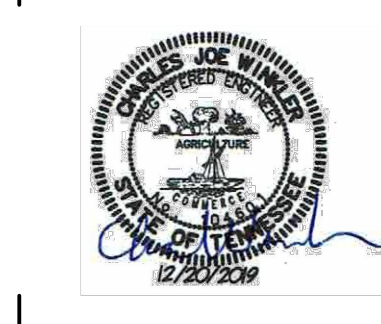


MULTI-PURPOSE ROOM RACK SS-MP  
N.T.S.



GYMNASIUM RACK SS-G  
N.T.S.

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