

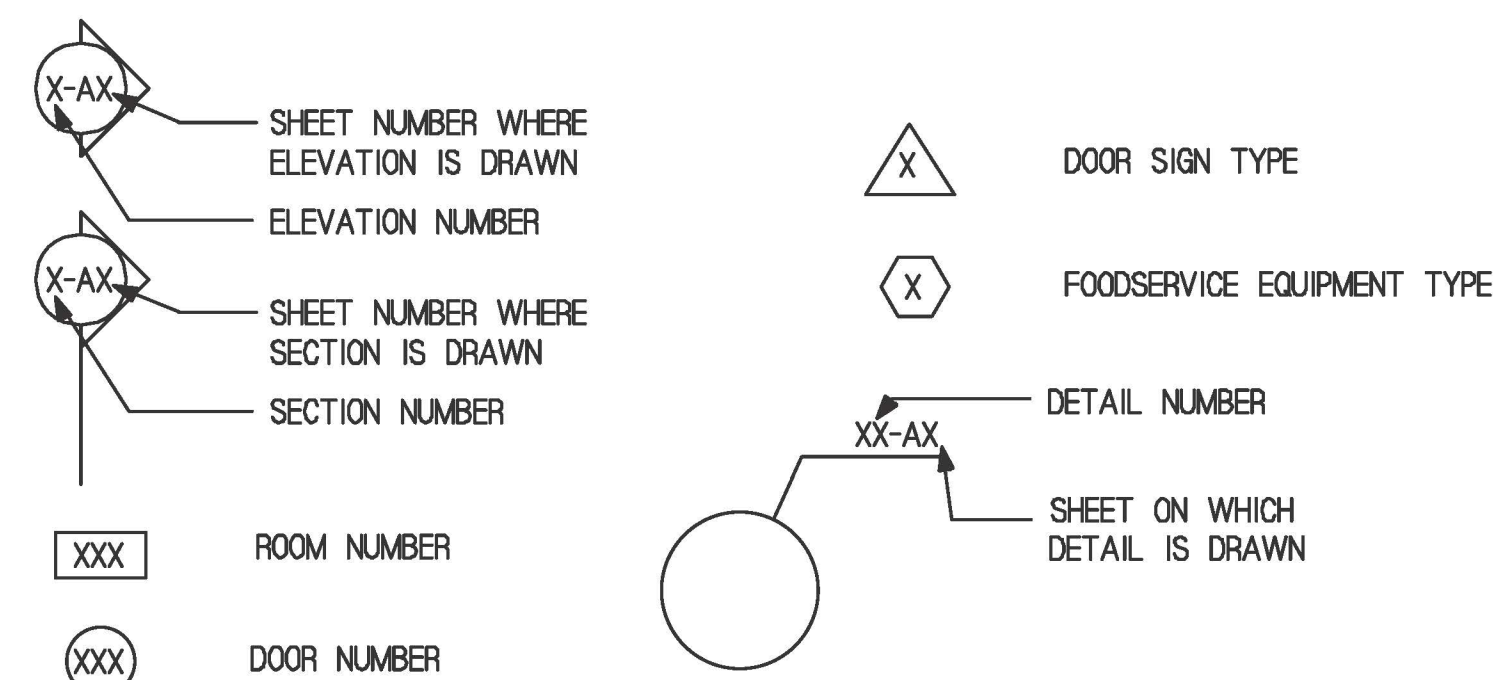
BUILDING CONSTRUCTION PLANS FOR BLOOMFIELD RECREATION CENTER CONCESSION AND TOILET BUILDINGS NEW CONSTRUCTION

MACON, BIBB COUNTY, GEORGIA
04/05/2021

MATERIAL SYMBOLS

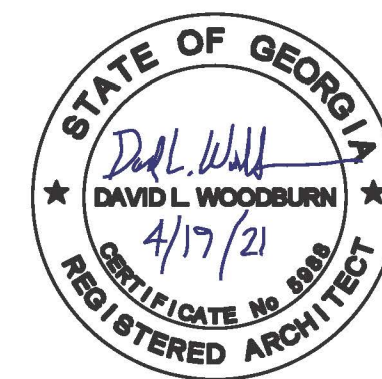
	CONCRETE (SECTION)		FRAMING LUMBER (SECT)
	CONCRETE (PLAN)		FINISH LUMBER (SECT)
	BRICK (SECTION OR PLAN)		PLYWOOD (SECTION)
	NEW / EXISTING WALL (CONCRETE MASONRY) (LARGE SCALE PLAN)		BATT INSUL (SECTION)
			METAL (SECTION)

REFERENCE SYMBOLS



TYPICAL ABBREVIATIONS

@	AT	ELEV.	ELEVATION	N.T.S.	NOT TO SCALE
A.B.	ANCHOR BOLT	EQ.	EQUAL	O.H.	OPPOSITE HAND
A.F.F.	ABOVE FINISH FLOOR	EXP.	EXPANSION	O.C.	ON CENTER
ALT.	ALTERNATE	EXT.	EXTERIOR	O.D.	OUTSIDE DIAMETER
ALUM.	ALUMINUM	F.D.	FLOOR DRAIN	P.	PLATE
AND.	ANDICIZED	F.E.	FIRE EXTINGUISHER	P.C.B.	PAINTED CONCRETE BLOCK
BOS.	BOY CHANGING STATION	F.F.	FINISH FLOOR	P.E.J.	PERFORMED EXPANSION JOINT
BD.	BOARD	FIN.	FINISH	P.L.	PROPERTY LINE
BET.	BETWEEN	FL.	FLOOR	PLYWD.	PLYWOOD
B.L.K.	BLOCK	F.R.	FIRE RATED	PROJ.	PROJECTION
B.N.	BULL NOSE	GA.	GAUGE	P.T.	PRESSURE TREATED
BM.	BEAM	GALV.	GALVANIZED	RAD.	RADIUS
BOT.	BOTTOM	G.B.	GRAB BAR	R.D.	ROOF DRAIN
C	CHANNEL	GYP.	GYPSUM	RECP.	RECEPTACLE
C.	CENTERLINE	H.C.	HANDICAPPED ACCESSIBLE	REINF.	REINFORCED
CAB.	CABINET	H.M.	HOLLOW METAL	REQD.	REQUIRED
C.B.	CEILING	H.L.	HOLLOW	RM.	ROOM
CMU	CONCRETE MASONRY UNIT	HT.	HEIGHT	R/W	RIGHT OF WAY
COL.	COLUMN	INSUL.	INSULATION	S.F.	SQUARE FOOT
CONC.	CONCRETE	JST.	JOIST	S.M.L.	SIMILAR
CONT.	CONTINUOUS	JT.	JOINT	S.F.	SQUARE FOOT
CTR.	CENTER	LAM.	LAMINATED	S/S	STAINLESS STEEL
DIA.	DIAMETER	L.F.	LINEAL FOOT	STL.	STEEL
D.B.N.	DOUBLE BULL NOSE	MANUF.	MANUFACTURER	STOR.	STORAGE
DET.	DETAIL	MAX.	MAXIMUM	SUSP.	SUSPENDED
D.F.	DRINKING FOUNTAIN	MET.	METAL	TEMP.	TEMPERED
DM.	DIMENSION	MIN.	MINIMUM	TK.	THICK
DISP.	DISPENSER	MISC.	MISCELLANEOUS	TYP.	TYPICAL
EA.	EACH	M.O.	MASONRY OPENING	UNL.	UNLESS NOTED
EHD	ELECTRIC HAND DRYER	N.I.C.	NOT IN CONTRACT	W/	WITH
E.J.	EXPANSION JOINT	NOM.	NOMINAL		



Widner & Associates, Inc.

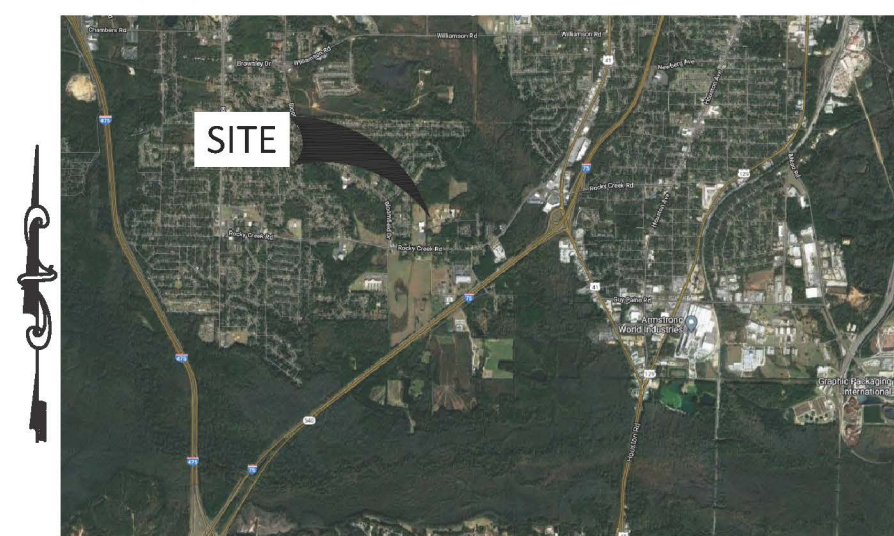
PH. # (478) 748-2010 P.O. BOX 102 MACON, GEORGIA 31202
EMAIL: widner@widner-assoc.com WEBSITE: www.widner-assoc.com

PROJECT NARRATIVE:

THIS PROJECT IS FOR THE CONSTRUCTION OF ONE CONCESSION BUILDING AND TWO TOILET BUILDINGS ASSOCIATED WITH PLAYING FIELD IMPROVEMENTS AT THE EXISTING BLOOMFIELD PARK RECREATION CENTER. SITE PREPARATION WILL INCLUDE DEMOLITION OF EXISTING BUILDINGS.

INDEX TO DRAWINGS

SHEET NO.	DESCRIPTION
COVER	PROJECT DATA
A1.1	OVERALL FLOOR PLAN - CONCESSIONS BUILDING, FOODSERVICE EQUIPMENT SCHEDULE
A1.2	CODE COMPLIANCE PLAN, ROOF PLAN, REFLECTED CEILING PLAN - CONCESSIONS BUILDING
A1.3	OVERALL FLOOR PLAN - TOILET BUILDING INTERIOR ELEVATIONS, BOTH BUILDING TYPES, ACCESSORY SCHEDULE
A1.4	CODE COMPLIANCE PLAN, ROOF PLAN, REFLECTED CEILING PLAN - TOILET BUILDING
A2	EXTERIOR ELEVATIONS
A3	SCHEDULES
S1	FOUNDATION PLANS, ROOF FRAMING LAYOUT PLANS - BOTH BUILDING TYPES
S2	STRUCTURAL NOTES, SCHEDULES AND DETAILS, STRUCTURAL SECTION
P1	PLUMBING SPECIFICATIONS, SCHEDULES AND DETAILS
P2	PLUMBING PLANS AND RISERS - CONCESSIONS BUILDING
P3	PLUMBING PLANS AND RISERS - TOILET BUILDINGS
M1	HVAC SPECIFICATIONS
M2	HVAC SCHEDULES AND DETAILS
M3	HVAC PLANS - BOTH BUILDING TYPES
E0.1	ELECTRICAL SPECIFICATIONS, LIGHTING SCHEDULE, LEGEND, NOTES AND DETAILS
E1.1	ELECTRICAL SITE PLAN, NOTES & DETAILS
E2.1	ELECTRICAL PLANS - CONCESSIONS BUILDING, NOTES, MECH. EQUIP. POWER SCHEDULE
E2.2	ELECTRICAL PLANS - TOILET BUILDINGS, NOTES
E3.1	POWER RISER, PANELBOARD SCHEDULES, DETAILS

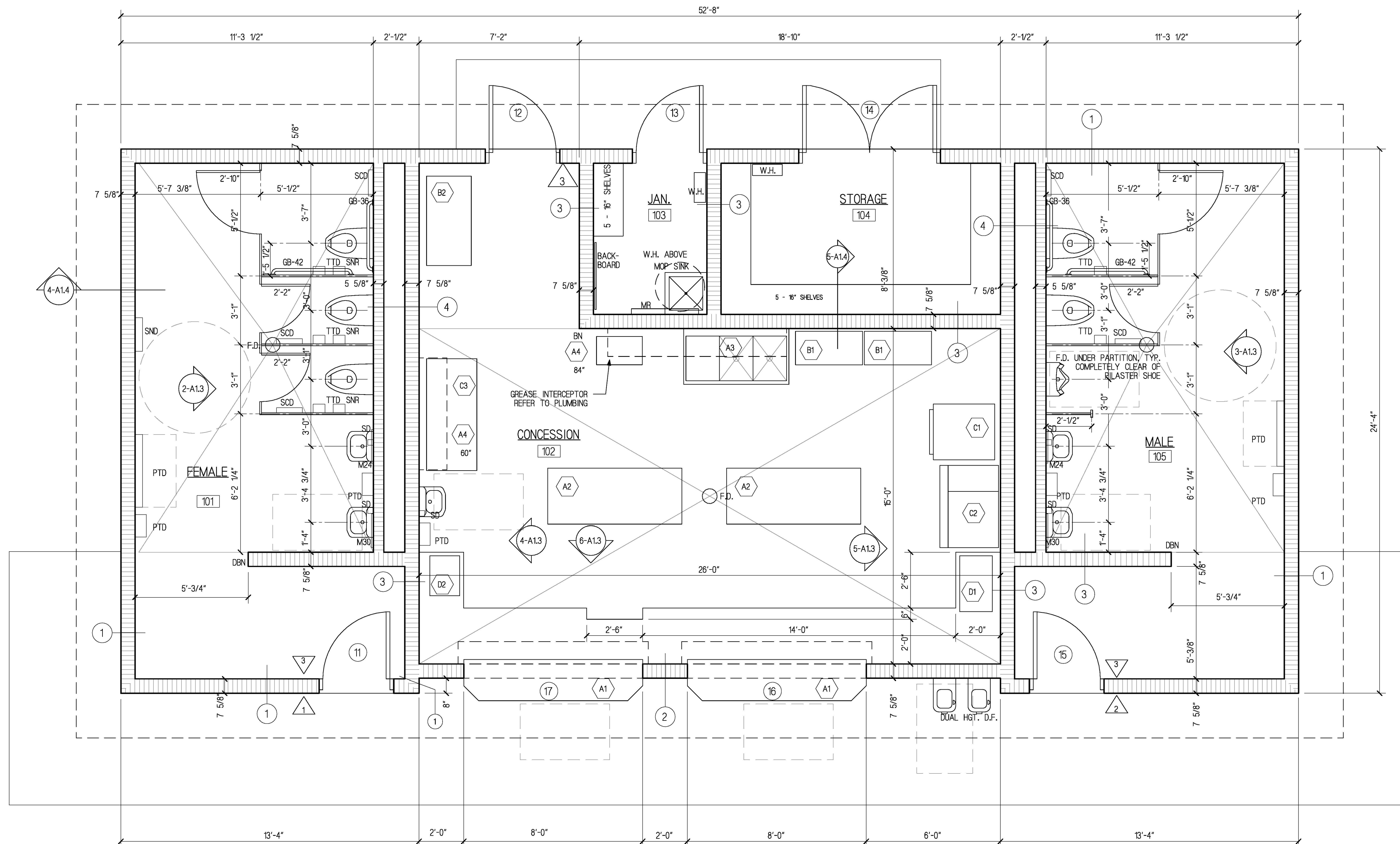


VICINITY MAP
N.T.S.

NOTE:

THE AGREEMENT BETWEEN THE ARCHITECT AND THE OWNERS IS FOR LIMITED ARCHITECTURAL SERVICES TO PROVIDE DESIGN AND CONSTRUCTION DOCUMENTS REQUIRED TO OBTAIN A BUILDING PERMIT FROM THE AUTHORITY HAVING JURISDICTION FOR THE PROJECT ONLY. ARCHITECTURAL SERVICES FOR CONSTRUCTION CONTRACT ADMINISTRATION ARE NOT PART OF THIS ARCHITECT'S RESPONSIBILITY. PROCUREMENT OF SPECIAL INSPECTIONS AS SPECIFIED IN CHAPTER 17 OF THE IBC IS NOT THE RESPONSIBILITY OF THIS ARCHITECT.

CODE DATA:	
NFPA OCCUPANCY TYPE:	BUSINESS ACCESSORY TO ASSEMBLY (OUTDOOR)
IBC OCCUPANCY TYPE:	BUSINESS GROUP B ACCESSORY TO ASSEMBLY A-5
NFPA CONSTRUCTION TYPE:	III (200)
IBC CONSTRUCTION TYPE:	3-B
BUILDINGS ARE NOT FIRE SPRINKLED	
TABULAR ALLOWABLE AREA PER IBC:	28,500 S.F.
CONCESSION BUILDING TOTAL ACTUAL AREA =	1,282 S.F. OK
OCCUPANT LOAD - TOILET ROOMS @ 15 S.F. =	28
OCCUPANT LOAD - BUSINESS @ 150 GROSS S.F. =	4
CONCESSION BUILDING TOTAL CALCULATED OCCUPANT LOAD	32
TOILET BUILDING TOTAL ACTUAL AREA =	600 S.F. OK
OCCUPANT LOAD - TOILET ROOMS @ 15 S.F. =	30
OCCUPANT LOAD - BUSINESS @ 150 GROSS S.F. =	0
TOILETS BUILDING TOTAL CALCULATED OCCUPANT LOAD	30
ALLOWABLE BUILDING HEIGHT IN STORIES:	3 - OK
ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE:	55' - OK
COMPLY WITH THE FOLLOWING CODES & STANDARDS:	
INTERNATIONAL BUILDING CODE, 2018 EDITION W/ GA. AMENDMENTS	
INTERNATIONAL PLUMBING CODE, 2018 EDITION W/ GA. AMENDMENTS	
INTERNATIONAL MECHANICAL CODE, 2018 EDITION W/ GA. AMENDMENTS	
NATIONAL ELECTRIC CODE, 2020 EDITION	
ENERGY CODE: ASHRAE 90.1, 2013 FOR SEMI-HEATED BUILDINGS (CLIMATE ZONE 3A)	
INTERNATIONAL FIRE CODE, 2018 EDITION W/ GA. AMENDMENTS	
GEORGIA ACCESSIBILITY CODE 120-3-20	
AMERICANS WITH DISABILITIES ACT STANDARDS, ADAAG 2010	
NFPA 101 LIFE SAFETY CODE, 2018 EDITION AMENDED BY RULE 120-3-3	



1 FLOOR PLAN
 SCALE: 3/8" = 1'-0" CONCESSIONS BUILDING

FOODSERVICE EQUIPMENT SCHEDULE

MARK	DESCRIPTION	MANUF. MODEL	FURN. & INSTALLED	MARK	DESCRIPTION	MANUF. MODEL	FURN. & INSTALLED
FABRICATED STAINLESS STEEL				REFRIGERATION			
A1	SERVING COUNTER - 96" X 24"	CUSTOM	BY CONTRACTOR	C1	REACH-IN COOLER	BEVERAGE-AIR HBR23HC-G	BY CONTRACTOR
A2	WORK TABLE - 72" X 30"	ADVANCE-TABCO MS-306	BY CONTRACTOR	C2	ICE MAKER & BIN	HOSHIZAKI KM-1100MAJ50 X B700SF X HS-2130 / HS-2034	BY CONTRACTOR
A3	2 COMPARTMENT SINK W/ 1 DRAIN BOARD - 50.5" X 27"	ADVANCE-TABCO FC-2-1824-18 X K1 X K15	BY CONTRACTOR	C3	CHEST FREEZER	AVANTCO DFF16-HCL 60"	BY CONTRACTOR
A4	S/S OVERSHELF - 10" X LENGTH INDICATED X 16 GA.	ADVANCE-TABCO WS-10-X-16	BY CONTRACTOR	COOKING & WARMING			
STORAGE SHELVING				D1	HOT DOG & BUN WARMER		BY OTHERS
B1	18" X 36"		BY OTHERS	D2	MICROWAVE OVEN		BY OTHERS
B2			BY OTHERS				



RATED PARTITION LEGEND

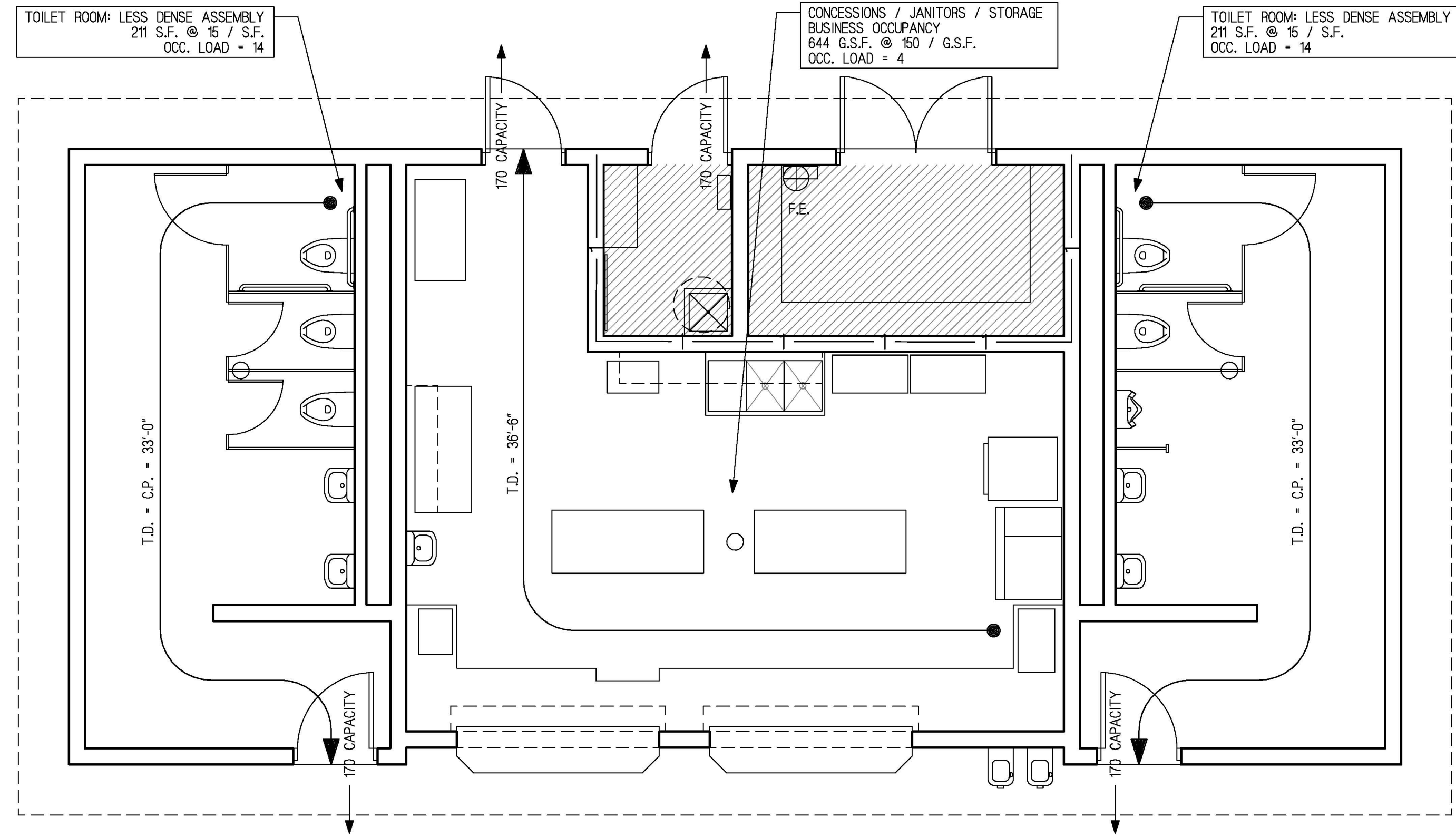
- NOTES:
- 1 — ONE HOUR RATED WALL
 - ⊗ F.E. FIRE EXTINGUISHER
 - ▨ ONE HOUR RATED ROOF / CEILING
- NOM. 8" NORMAL WEIGHT CMU, 4.0" EQUIVALENT THICKNESS ANY AGGREGATE EXCEEDS 1 HOUR BY IBC MIN. THICKNESS OF SEAL TO RATED CEILING
- ALL FIRE EXTINGUISHERS REGARDLESS OF TYPE ARE CLASS ABC 10 POUND.
- UL #P522 @ ROOF: WOOD ROOF TRUSS @ 24" O.C. 7/8" FURRING CHANNELS, 5/8" F.R. GYP. BD. ALL PENETRATIONS PROTECTED.

ALL INTERIOR FINISHES ARE TO BE CERTIFIED CLASS A, B OR C IN ACCORDANCE WITH ASTM E 84. IN NEW SPACES AND RENOVATED FINISHES. FLAME SPREAD = 0-75 SMOKE DEVELOPED = 0-450

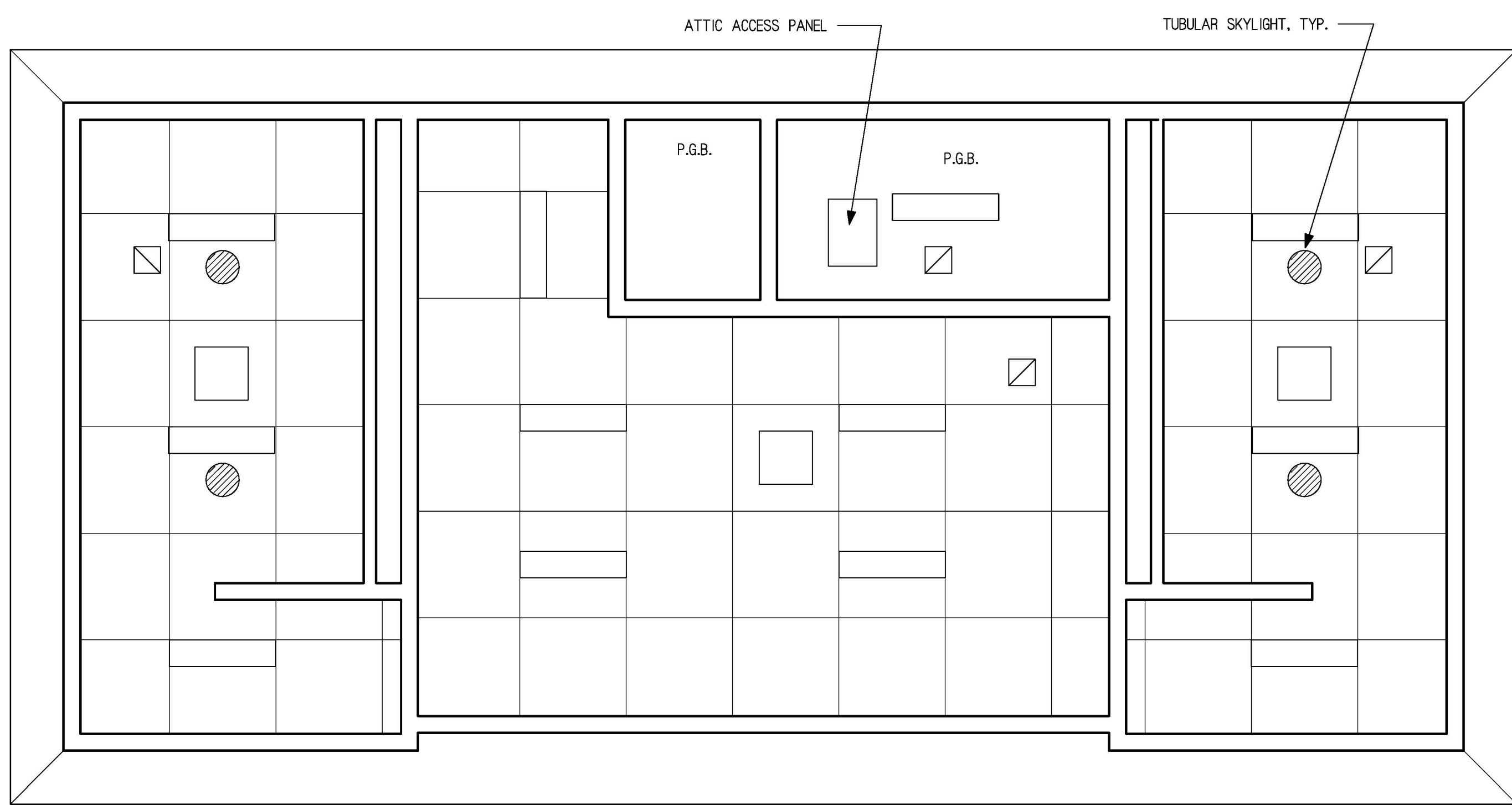
NOTE: ALL DOORS IN MEANS OF EGRESS ARE TO BE OPENABLE WITHOUT KEYS OR SPECIAL TOOLS AT ALL TIMES. LEVER HARDWARE THROUGHOUT

INSULATION STANDARDS (SEMI-HEATED): CEILING: R-9 EXTERIOR MASONRY WALLS: R-2.8 ENTRY DOORS: U = 0.61

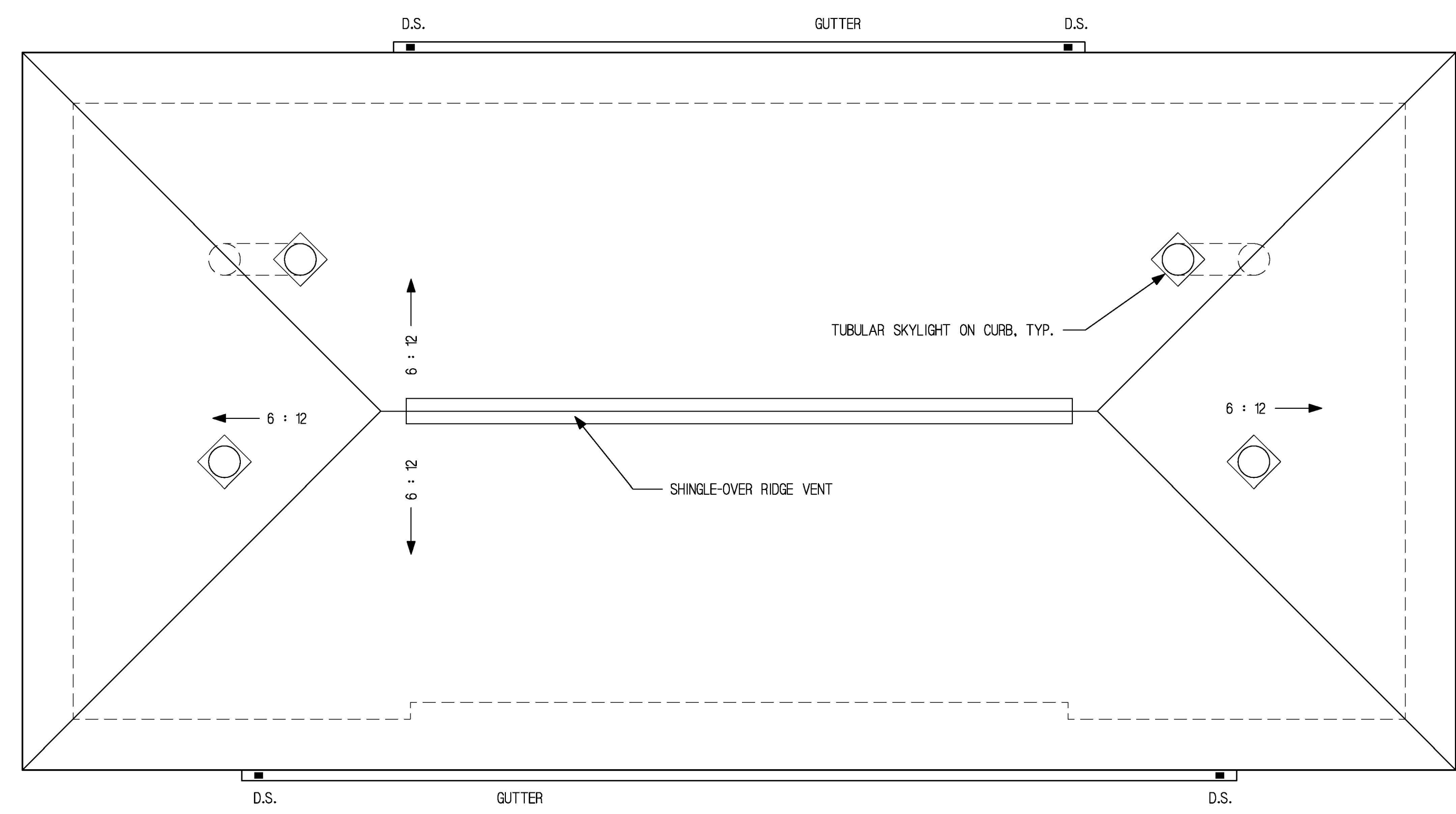
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 IBC OCCUPANCY TYPE: BUSINESS GROUP B ACCESSORY TO ASSEMBLY A-5
 NFPA CONSTRUCTION TYPE: III (200)
 IBC CONSTRUCTION TYPE: 3-B
 BUILDINGS ARE NOT FIRE SPRINKLED
 TABULAR ALLOWABLE AREA PER IBC: 28,500 SF
 CONCESSION BUILDING TOTAL ACTUAL AREA = 1,282 S.F. OK
 OCCUPANT LOAD - TOILET ROOMS @ 15 S.F. = 28
 OCCUPANT LOAD - BUSINESS @ 150 GROSS S.F. = 4
 CONCESSION BUILDING TOTAL CALCULATED OCCUPANT LOAD 32
 ALLOWABLE BUILDING HEIGHT IN STORIES: 3 - OK
 ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE: 55' - OK
 COMPLY WITH THE FOLLOWING CODES & STANDARDS:
 INTERNATIONAL BUILDING CODE, 2018 EDITION W/ GA. AMENDMENTS
 INTERNATIONAL PLUMBING CODE, 2018 EDITION W/ GA. AMENDMENTS
 INTERNATIONAL MECHANICAL CODE, 2018 EDITION W/ GA. AMENDMENTS
 NATIONAL ELECTRIC CODE, 2020 EDITION
 ENERGY CODE: ASHRAE 90.1, 2013 FOR SEMI-HEATED BUILDINGS (CLIMATE ZONE 3A)
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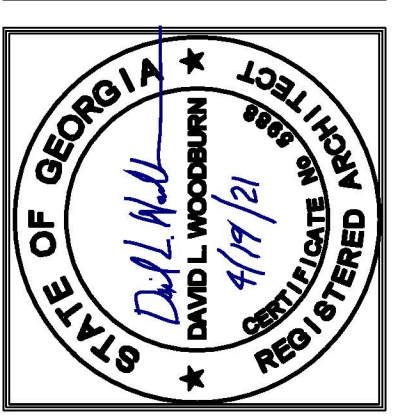
1 FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 TOILETS & CONCESSION
 CODE COMPLIANCE



1 REFLECTED CEILING PLAN
 SCALE: 1/4" = 1'-0"
 TOILETS & CONCESSION

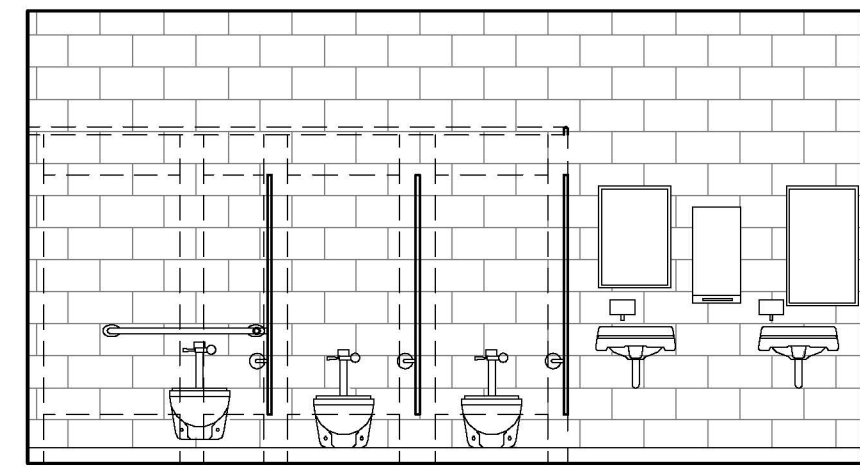


1 ROOF PLAN
 SCALE: 1/4" = 1'-0"
 TOILETS & CONCESSION

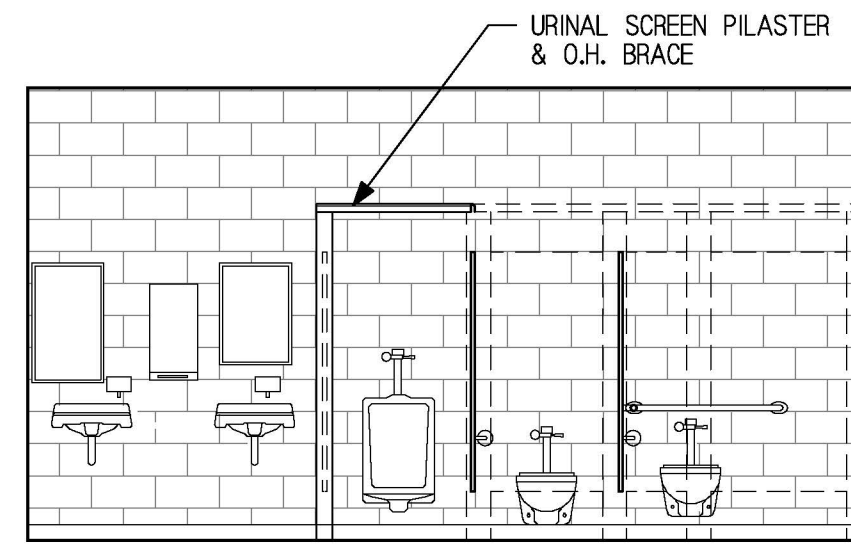


TOILET ACCESSORY SCHEDULE		
ABBREV.	ITEM DESCRIPTION	MODEL
GB-36	36" GRAB BAR - NON SLIP GRIPPING SURFACE, CONCEALED FASTENERS.	BRADLEY 8122-001-36
GB-42	42" GRAB BAR - NON SLIP GRIPPING SURFACE, CONCEALED FASTENERS.	BRADLEY 8122-001-42
PTD	PAPER TOWEL DISPENSER - STAINLESS STEEL C-FOLD, SURFACE MOUNT	BRADLEY 250-15
M-30	STAINLESS STEEL FRAMED MIRROR - 1/4" TEMPERED GLASS - 18" X 30"	BRADLEY 781-1830-2
M-24	STAINLESS STEEL FRAMED MIRROR - 1/4" TEMPERED GLASS - 18" X 24"	BRADLEY 781-1824-2
SD	SOAP DISPENSER - STAINLESS STEEL LIQUID SOAP, SURFACE MOUNT	BRADLEY 6542
TTD	TOILET TISSUE DISPENSER - 2 ROLL, SURFACE MOUNT, CAM SPINDLE CONTROLLED DELIVERY EXCEPT NOT CONTROLLED AT ACCESSIBLE STALLS.	BRADLEY 5241
MR	MOP RACK - 4 HOLDERS ON 3' STAINLESS STEEL TRACK	BRADLEY 995-4
BCT	CHANGING TABLE - FOLDING POLYETHYLENE HORIZONTAL SHELL	BROCAR HORIZONTAL
SND	SANITARY NAPKIN DISPENSER - STAINLESS STEEL, SURFACE MOUNT - COIN OPERATED	BRADLEY 407-11
SNR	SANITARY NAPKIN DISPOSAL RECEPTACLE - STAINLESS STEEL, SURFACE MOUNT - 1.5 GAL. CAPACITY	BRADLEY 4722-15
SCD	SEAT COVER DISPENSER - STAINLESS STEEL, SURFACE MOUNT	BRADLEY 583
PTR (ALTERNATE)	PAPER TOWEL RECEPTACLE - STAINLESS STEEL, SURFACE MOUNT - 6.4 GAL.	BRADLEY 357

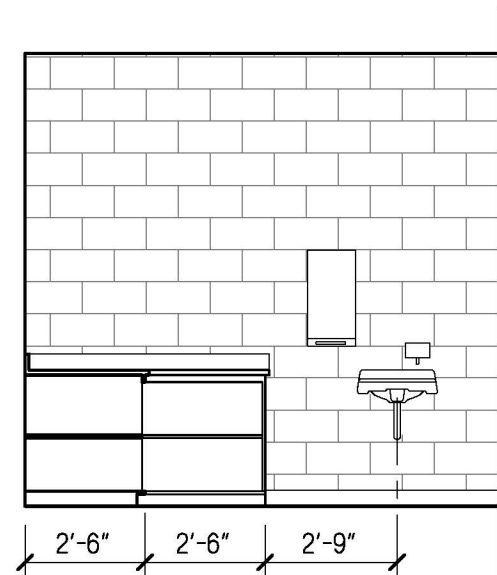
NOTE: MODELS ARE THE BASIS OF DESIGN FOR QUALITY AND FUNCTION. FURNISH SPECIFIED MODEL OR EQUAL.



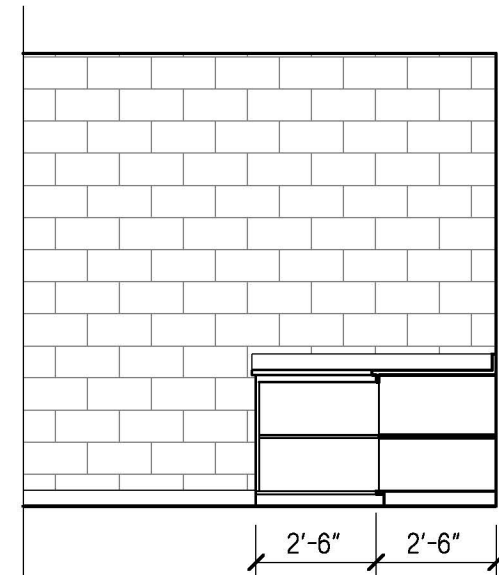
2 FEMALE TOILET



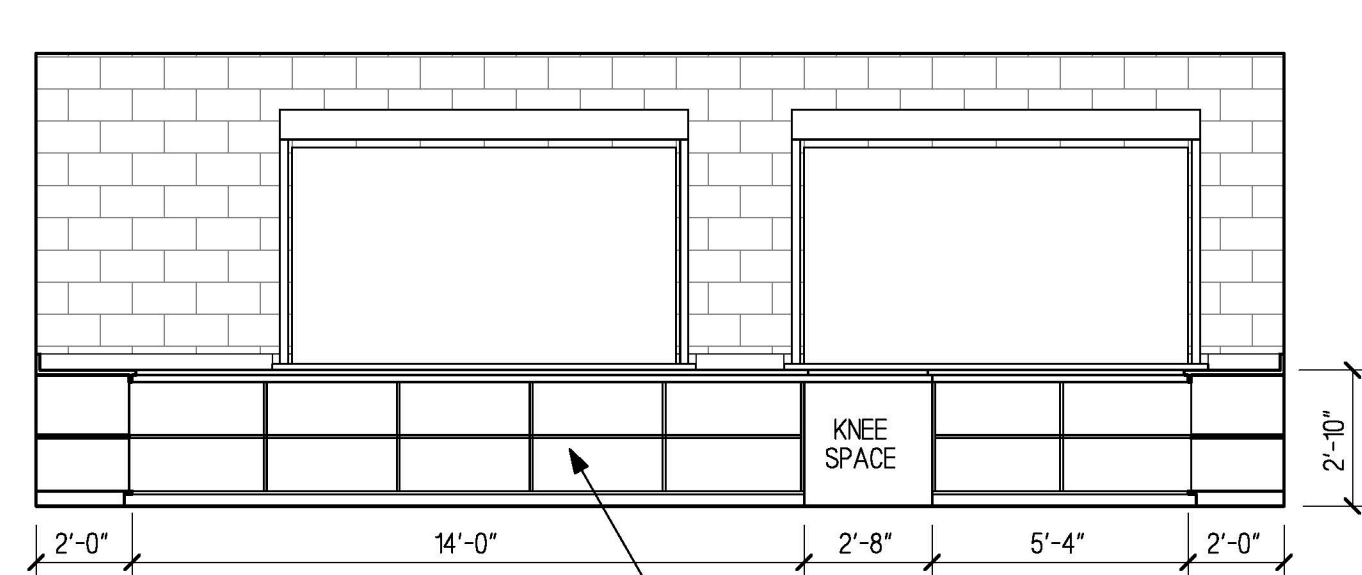
3 MALE TOILET



4 CONCESSIONS



5 CONCESSIONS

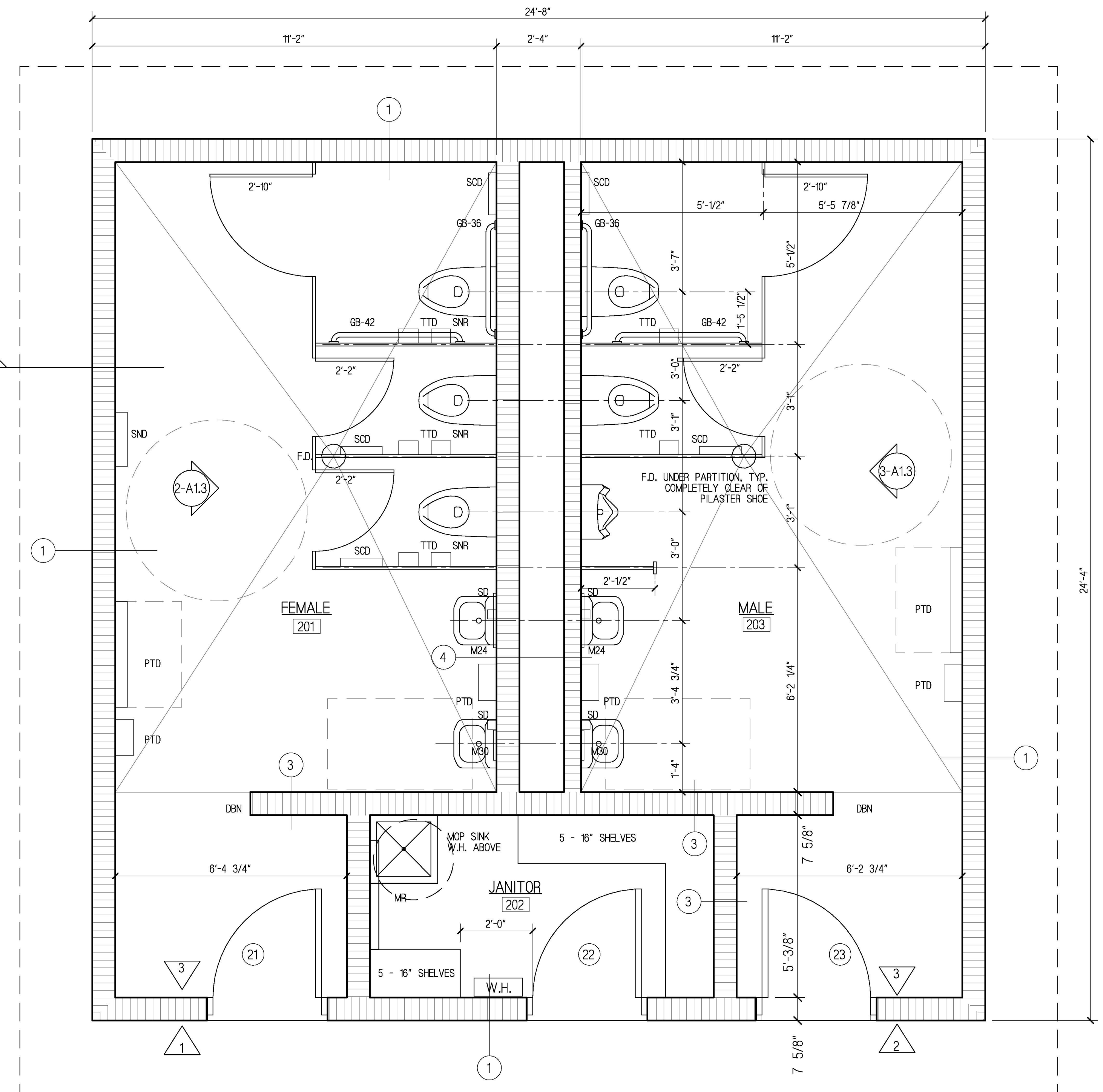


6 CONCESSIONS

OPEN SHELVES, TYP. W/ SUPPORT PARTITIONS AS SHOWN

INTERIOR ELEVATIONS

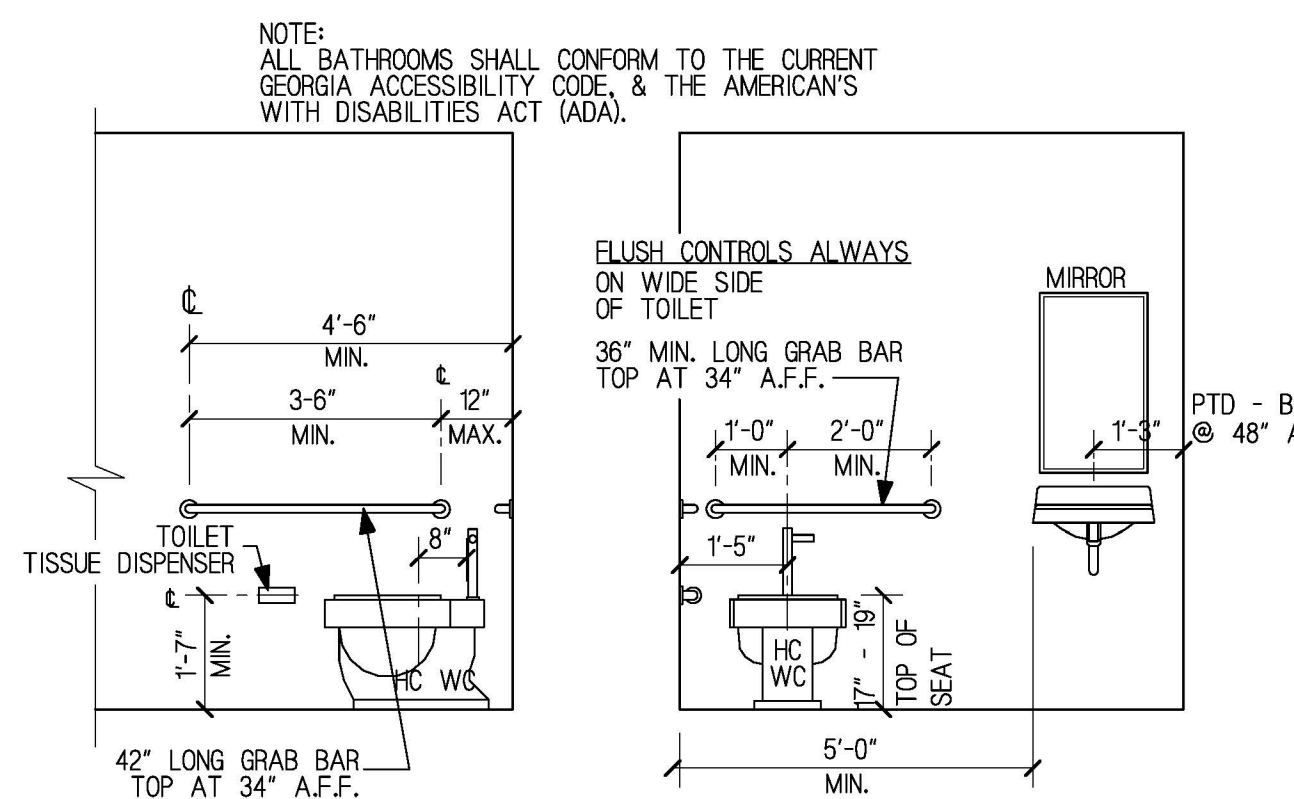
SCALE: 1/4" = 1'-0"



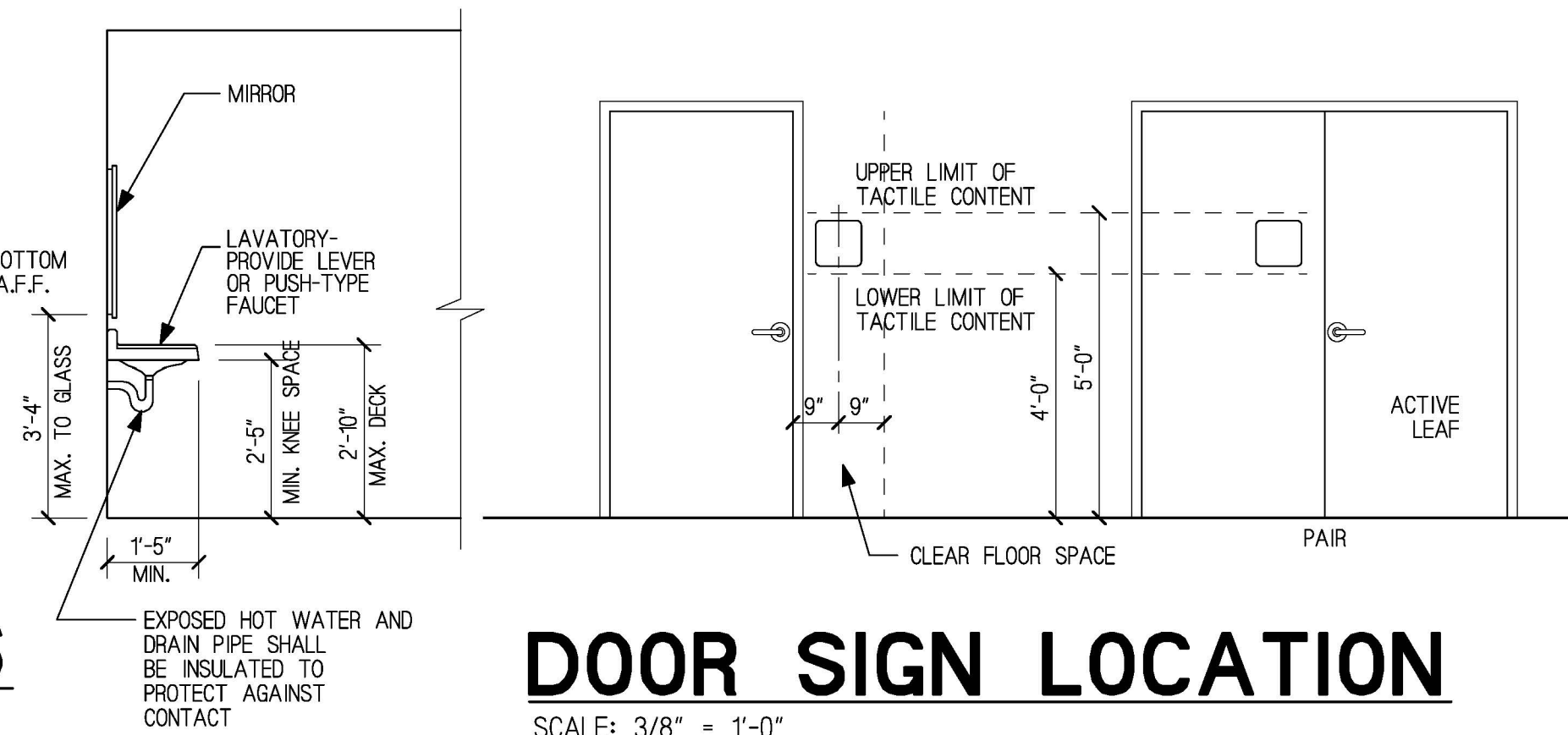
1 FLOOR PLAN

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

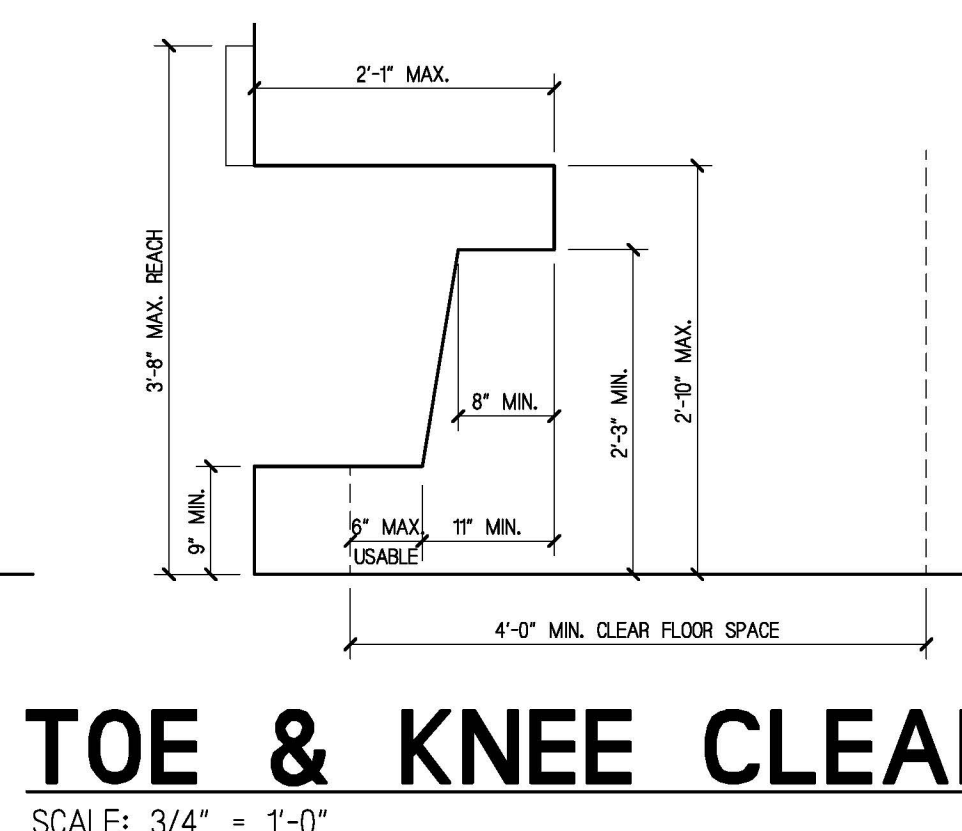
TOILET BUILDING



INTERIOR ELEVATIONS
SCALE: 3/8" = 1'-0" ACCESSIBLE TOILET CLEARANCES



DOOR SIGN LOCATION
SCALE: 3/8" = 1'-0"



TOE & KNEE CLEARANCE
SCALE: 3/4" = 1'-0"

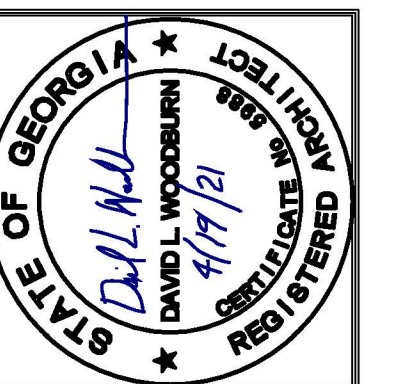
WALL TYPES		
MARK	DESCRIPTION	FINISH
1	SPLIT FACE ARCHITECTURAL C.M.U.	ELASTOMERIC COATING EXTERIOR, EPOXY INTERIOR
2	SMOOTH-FACE, SINGLE-SCORE ARCHITECTURAL C.M.U.	ELASTOMERIC COATING EXTERIOR, EPOXY INTERIOR
3	NOM. 8" C.M.U. PARTITION	EPOXY
4	CHASE WALL - NOM. 6" PLUS NOM. 8" C.M.U.	EPOXY

Drawing Number

A1.3

DATE: 04/05/2021

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P.O. BOX 002, MACON, GEORGIA 31202
PH: (478) 748-2000
EMAIL: widner@widner-assoc.com



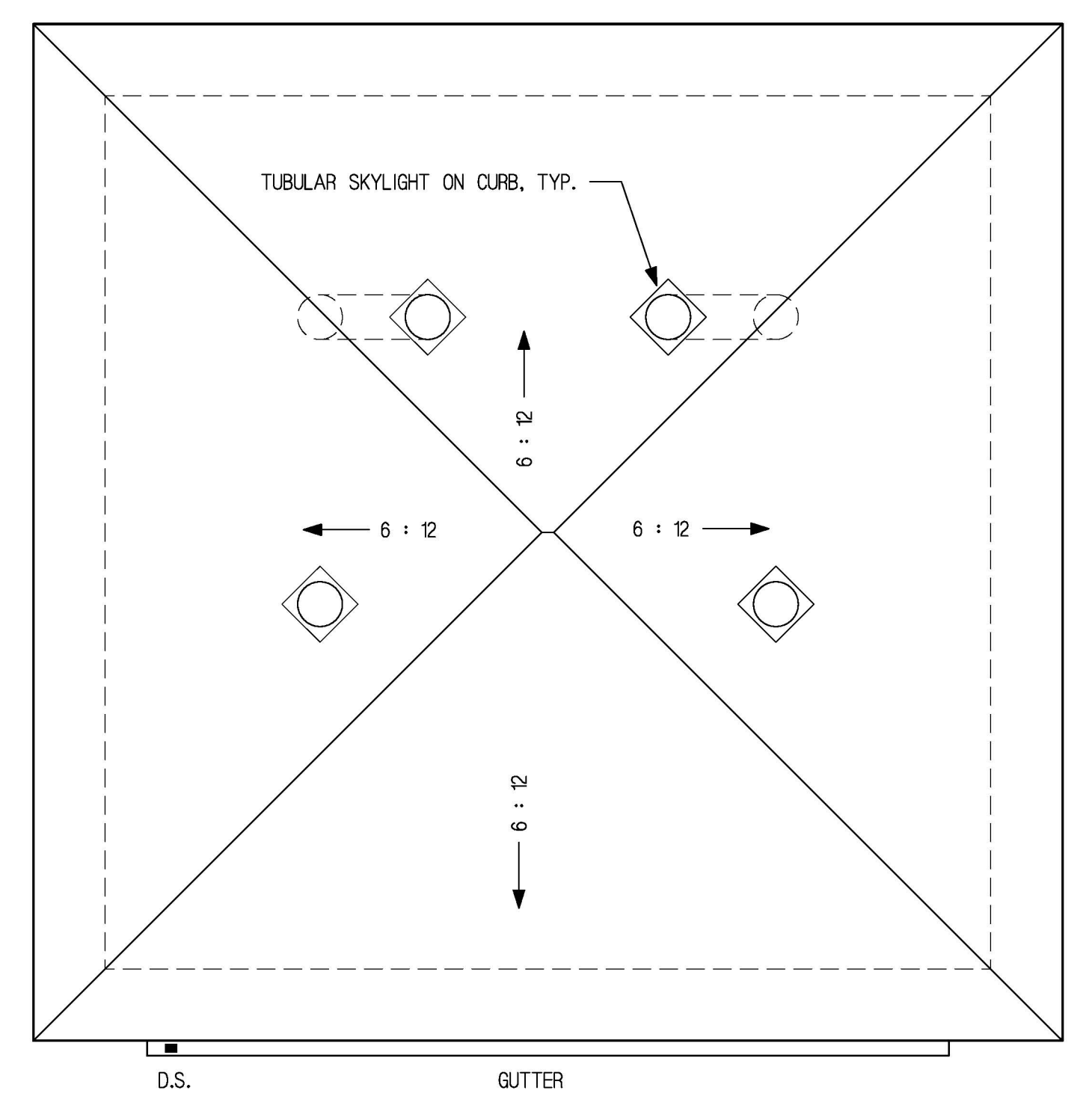
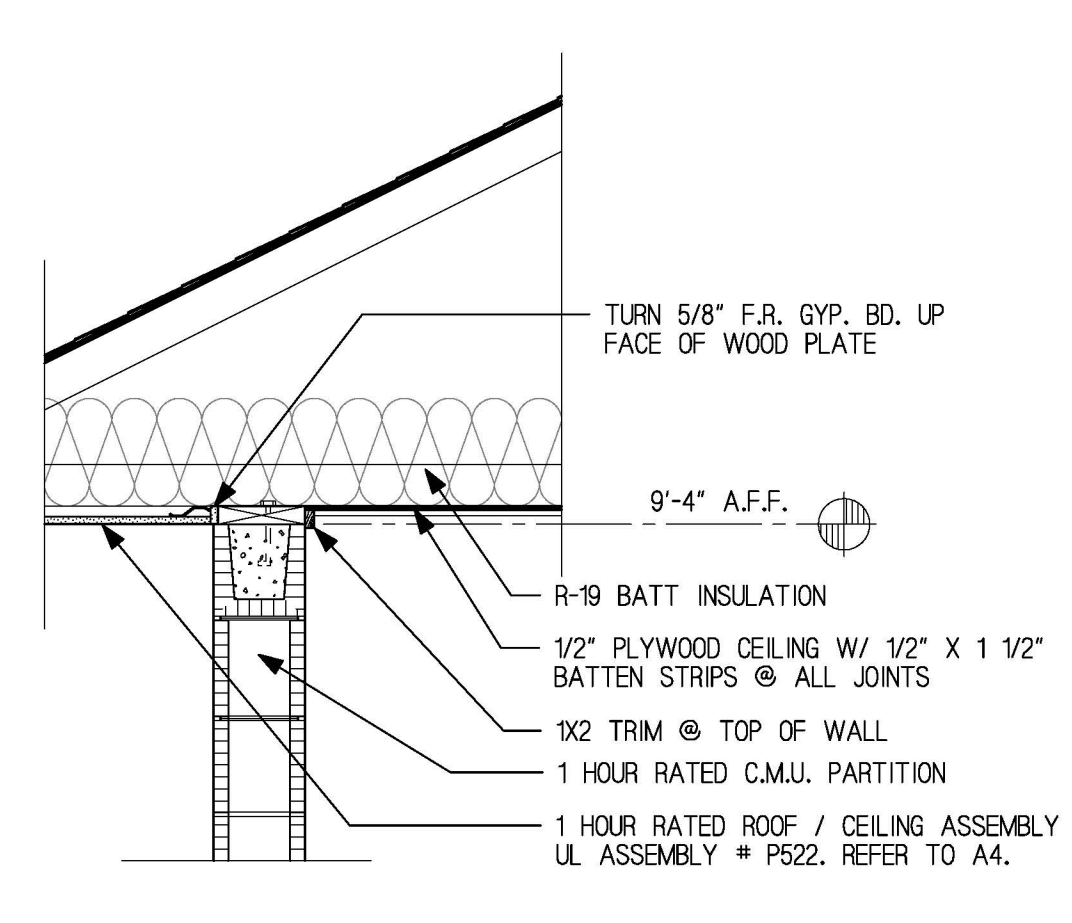
**BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS**
MACON, GEORGIA

PROJECT NUMBER 20-119

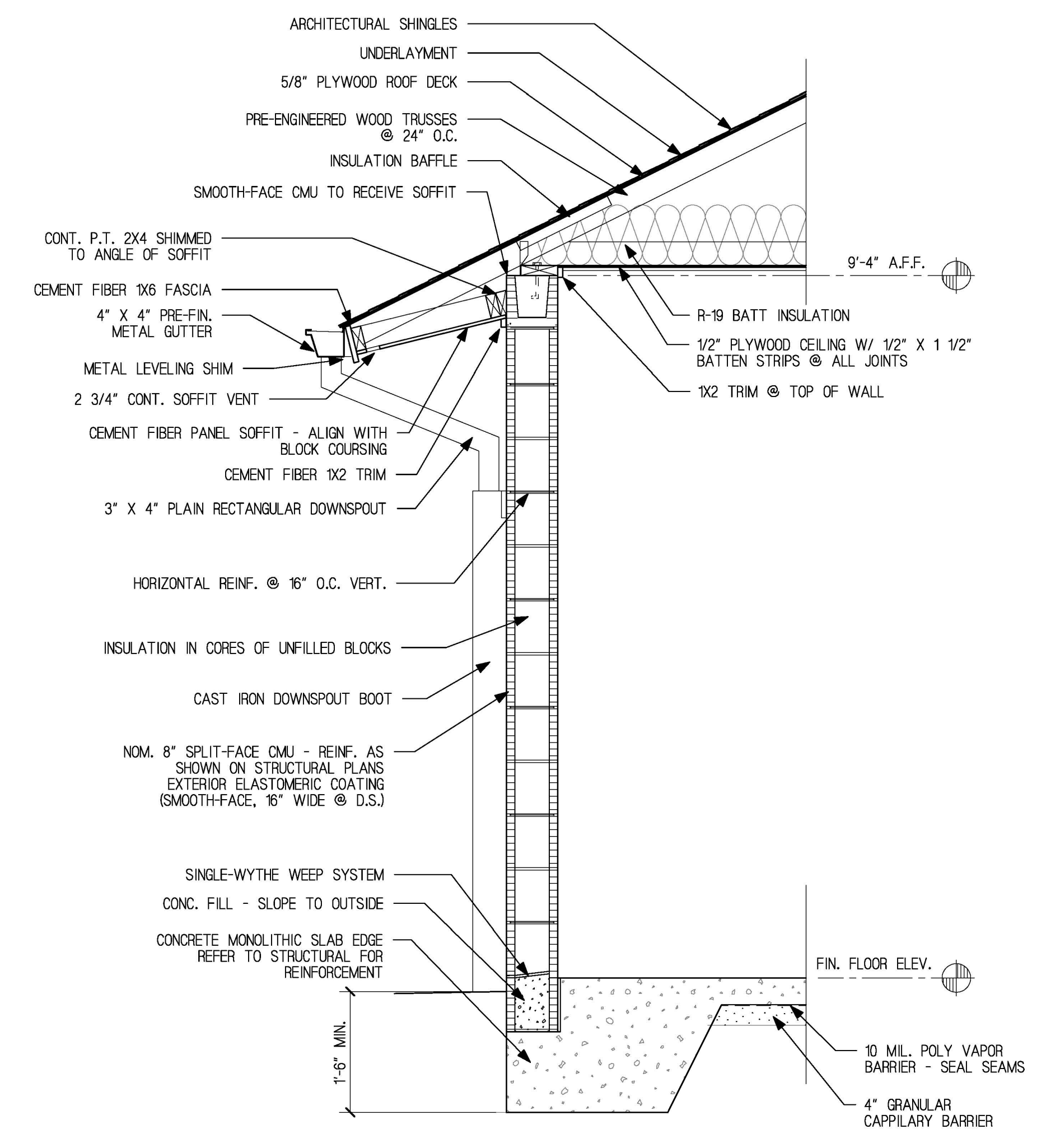
A1.3

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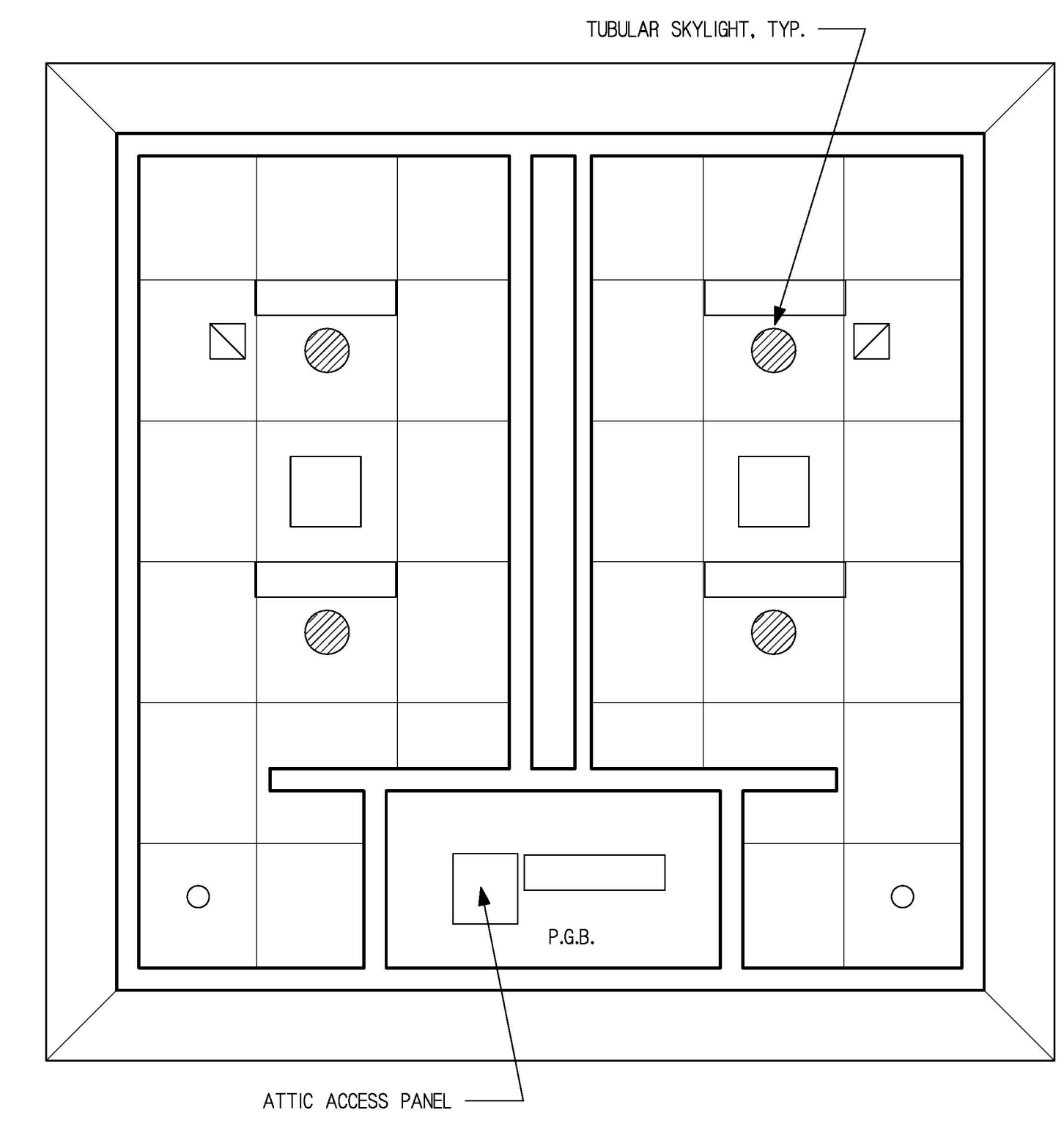
5 SECTION
SCALE: 3/4" = 1'-0" RATED INTERIOR



2 ROOF PLAN
SCALE: 1/4" = 1'-0" TOILETS WITH JANITOR

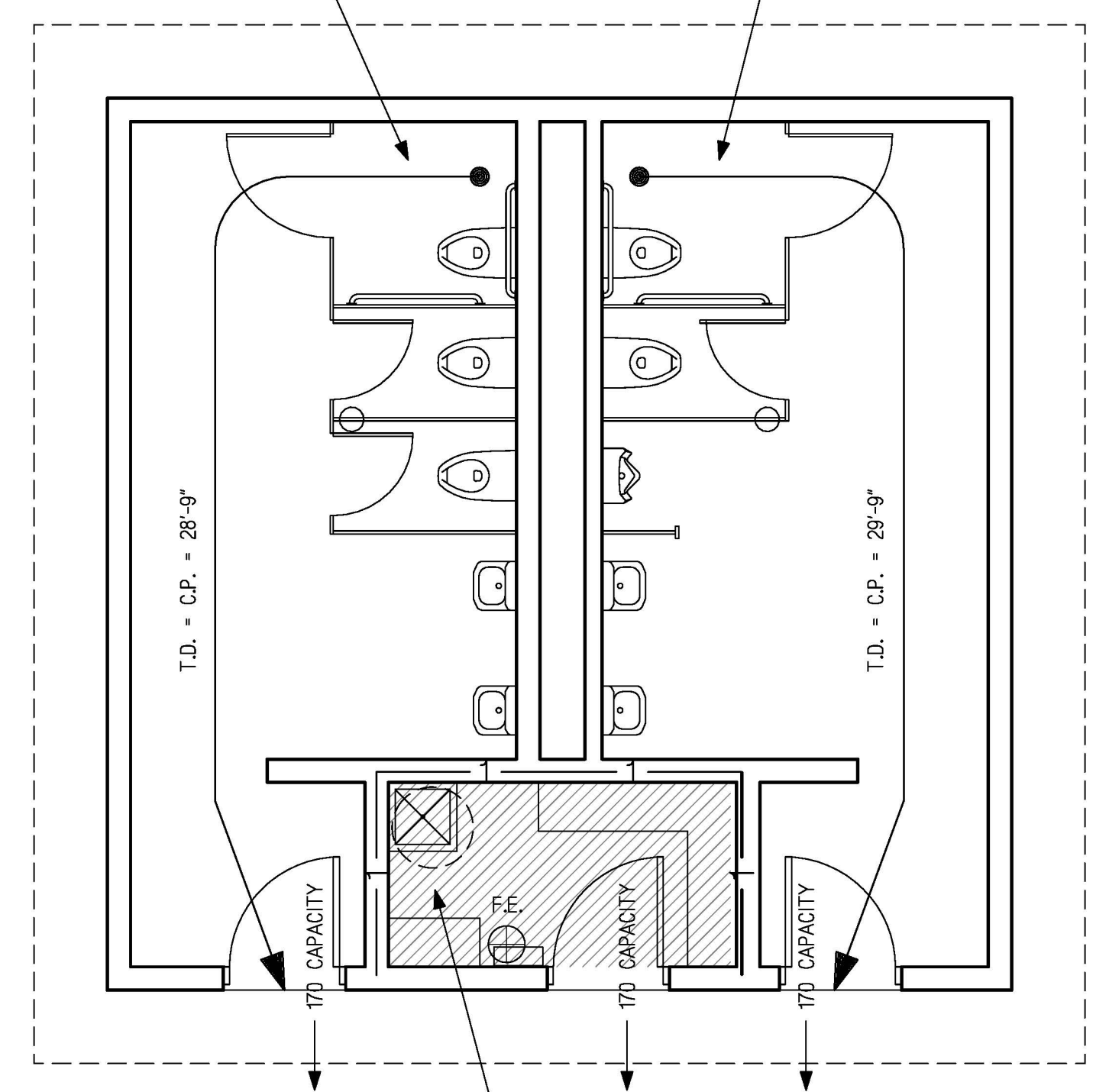


4 SECTION
SCALE: 3/4" = 1'-0" TYP. EXTERIOR



3 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0" TOILETS WITH JANITOR

TOILET ROOM: LESS DENSE ASSEMBLY
216 S.F. @ 15 / S.F.
OCC. LOAD = 15



1 FLOOR PLAN
SCALE: 1/4" = 1'-0" TOILETS WITH JANITOR
CODE COMPLIANCE

RATED PARTITION LEGEND

- NOTES:
- 1 ONE HOUR RATED WALL
 - F.E. FIRE EXTINGUISHER
 - ONE HOUR RATED ROOF / CEILING
- NOTE: NOM. 8" NORMAL WEIGHT C.M.U. 4.0" EQUIVALENT THICKNESS ANY AGGREGATE EXCEEDS 1 HOUR BY IBC MIN. THICKNESS OF SEAL TO RATED CEILING
- ALL FIRE EXTINGUISHERS REGARDLESS OF TYPE ARE CLASS ABC TO FOUND.
- UL #P522 @ ROOF: WOOD ROOF TRUSS @ 24" O.C. 7/8" FURRING CHANNELS, 5/8" F.R. GYP. BD. ALL PENETRATIONS PROTECTED.

ALL INTERIOR FINISHES ARE TO BE CERTIFIED CLASS A, B OR C IN ACCORDANCE WITH ASTM E 84. IN NEW SPACES AND RENOVATED FINISHES. FLAME SPREAD = 0-75 SMOKE DEVELOPED = 0-450

NOTE: ALL DOORS IN MEANS OF EGRESS ARE TO BE OPENABLE WITHOUT KEYS OR SPECIAL TOOLS AT ALL TIMES. LEVER HARDWARE THROUGHOUT

INSULATION STANDARDS (SEMI-HEATED):
CEILING: R-19
EXTERIOR MASONRY WALLS: R-2.8
ENTRY DOORS: U = 0.61

CODE DATA:
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IBC OCCUPANCY TYPE: BUSINESS GROUP B ACCESSORY TO ASSEMBLY A-5
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A1.4
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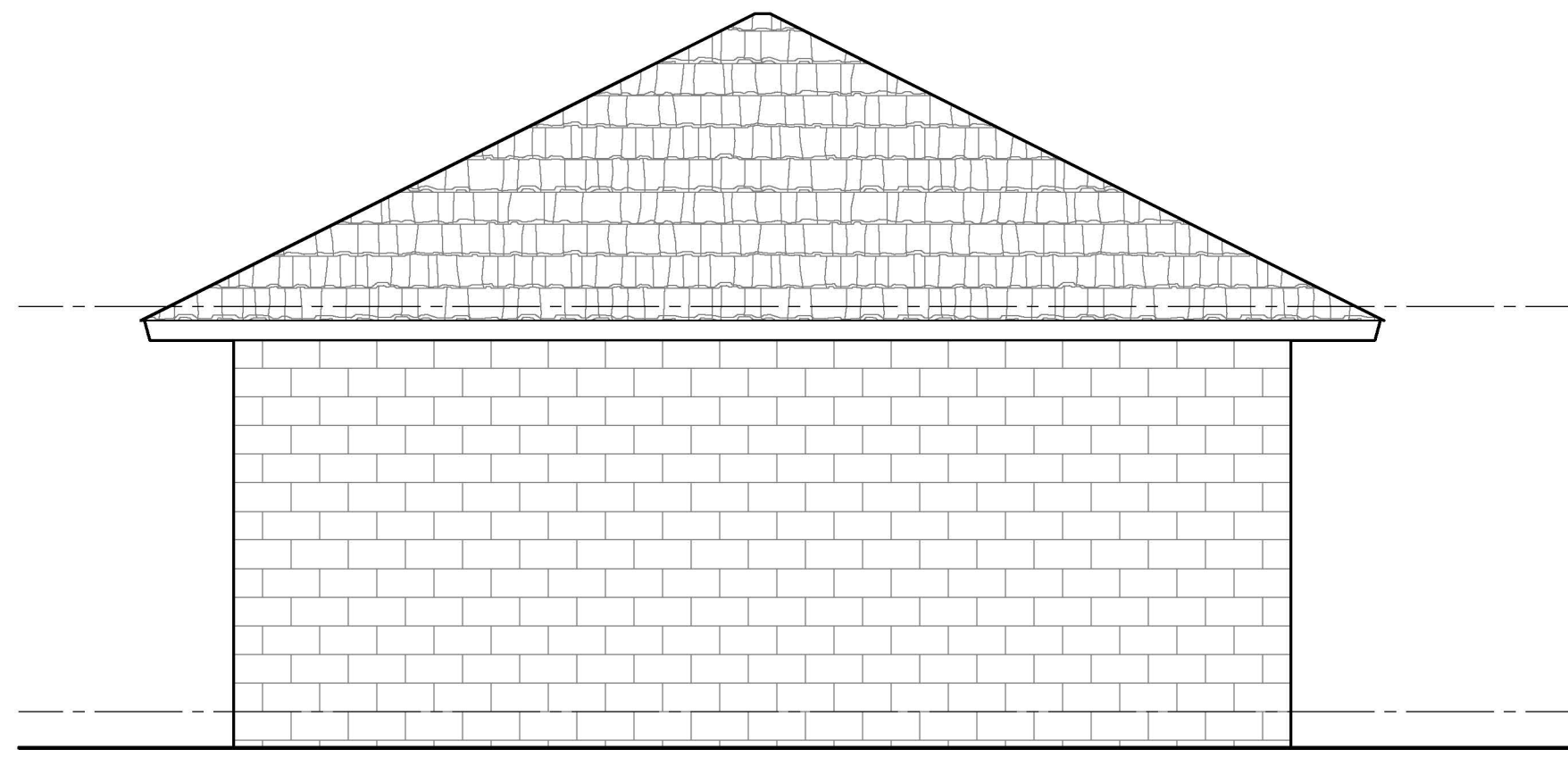
Widner & Associates, Inc.
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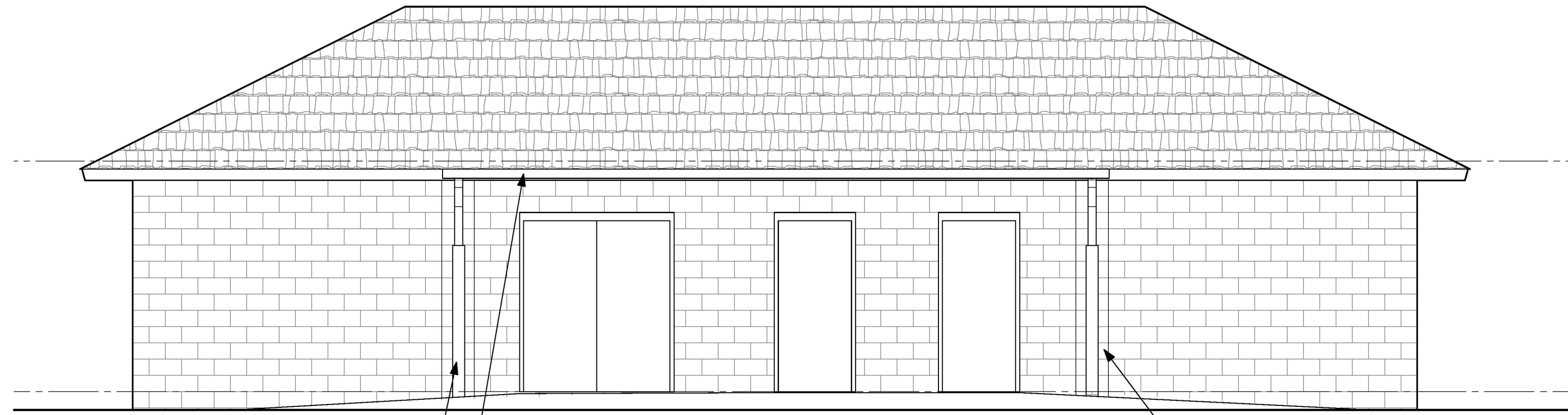
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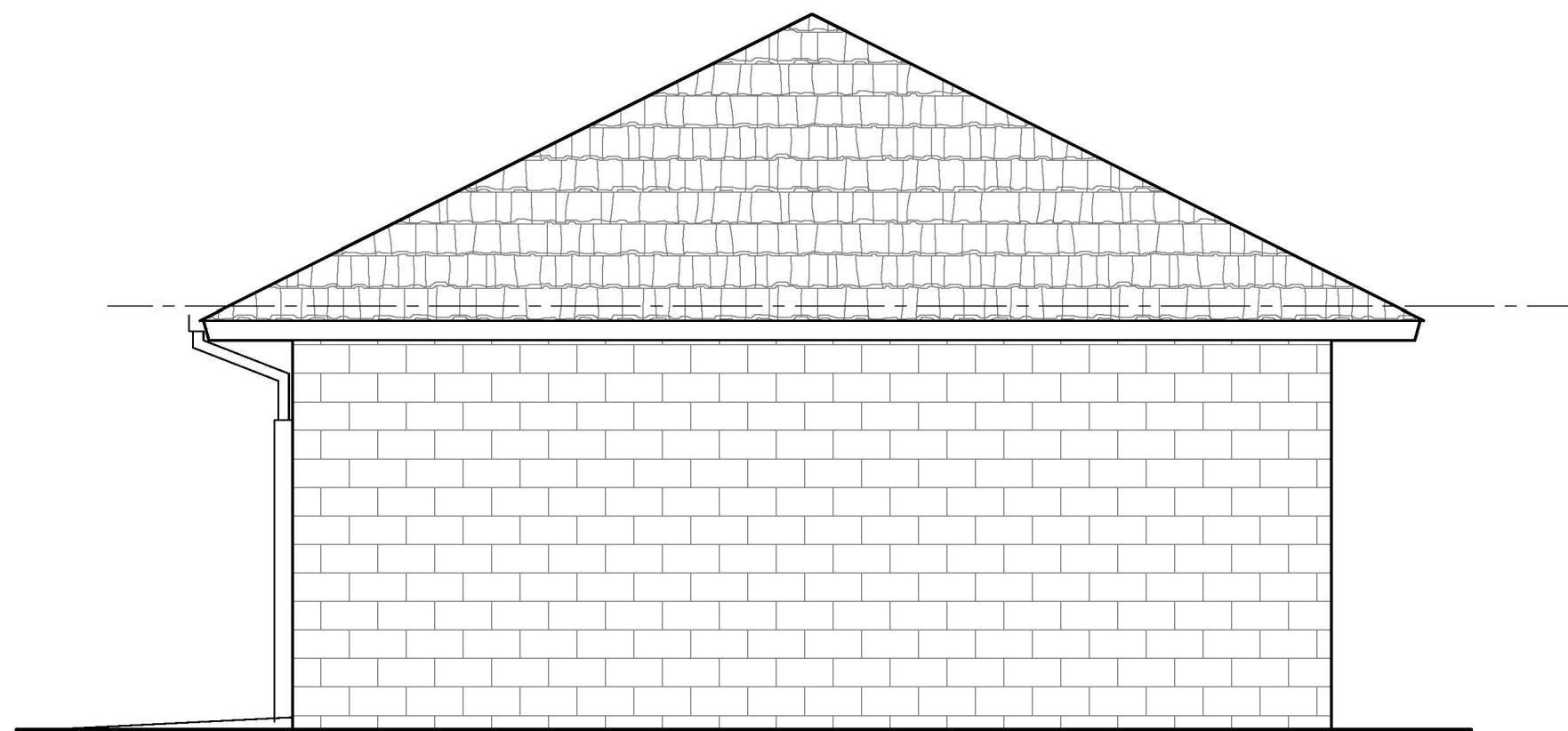
A1.4
DATE: 04/05/2021



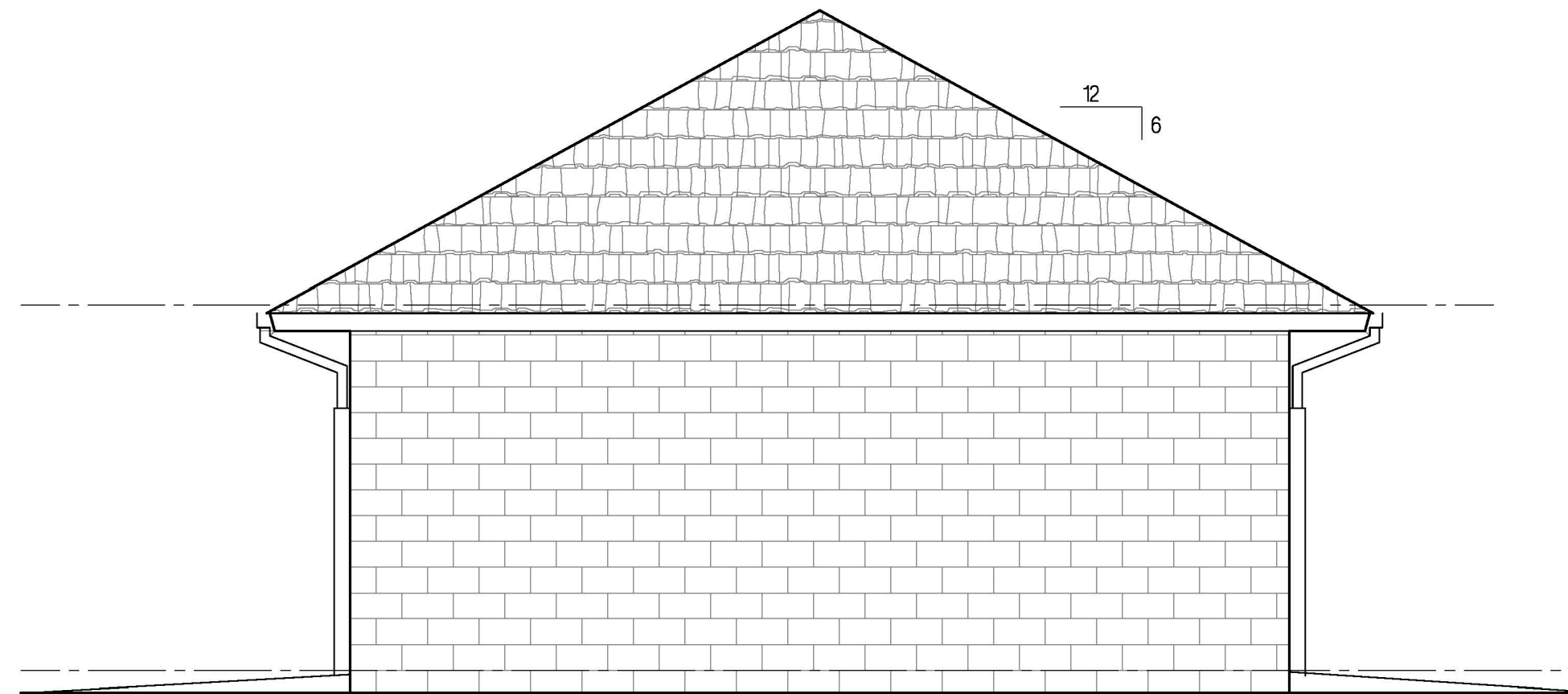
6 REAR ELEVATION
SCALE: 1/4" = 1'-0" TOILETS BUILDING



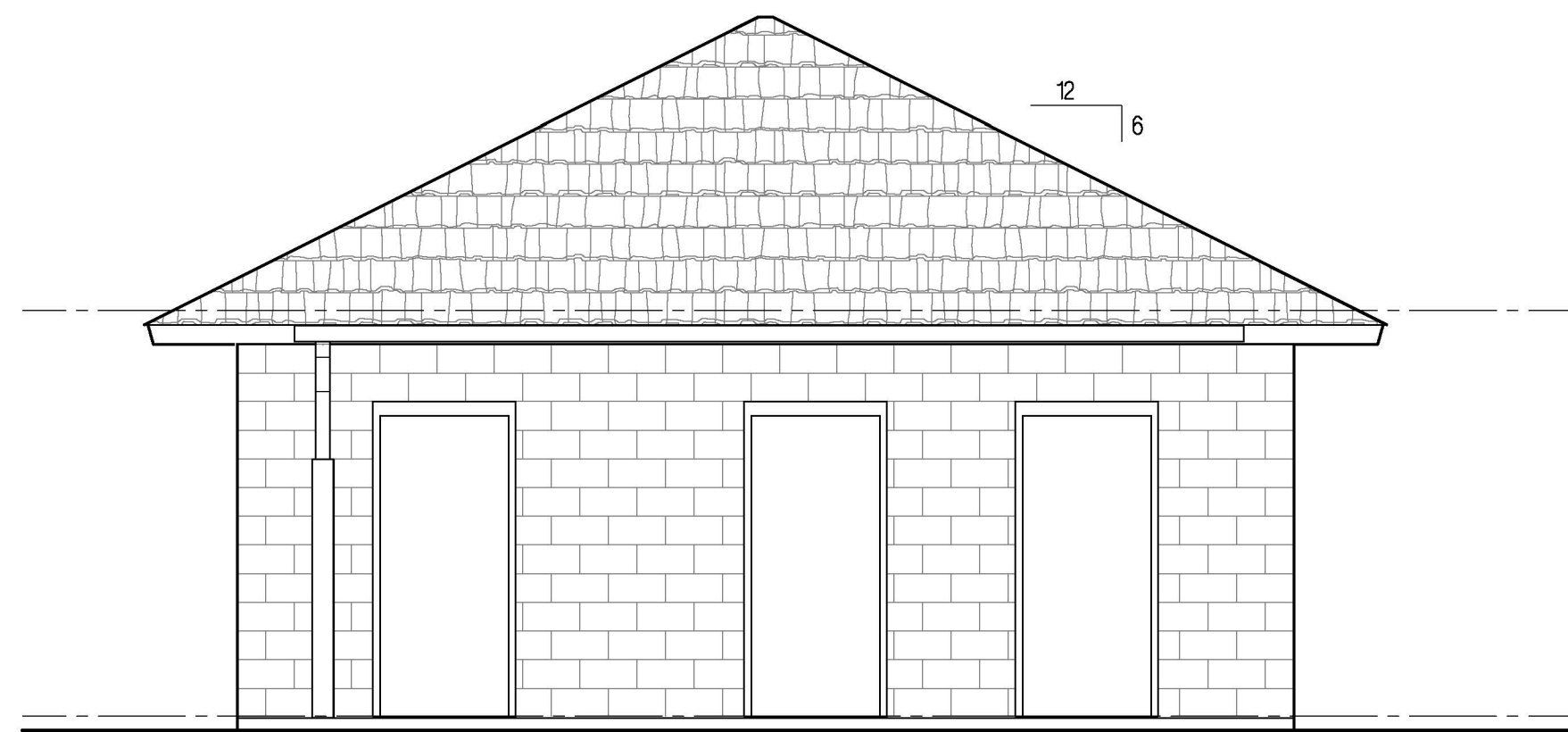
3 REAR ELEVATION
SCALE: 1/4" = 1'-0" CONCESSIONS BUILDING



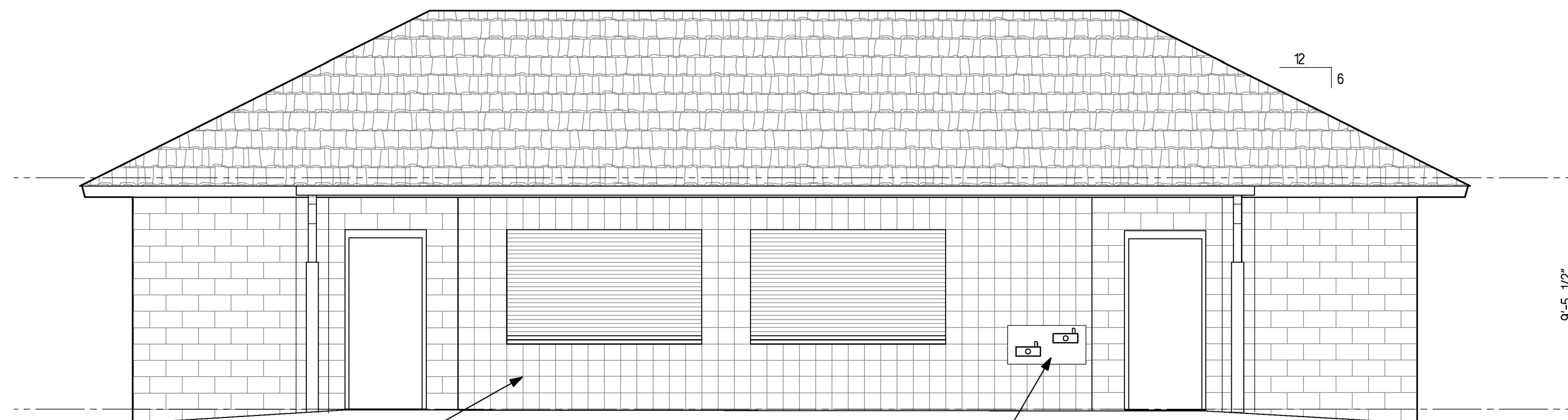
5 RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0" TOILET BUILDING
LEFT SIDE OPPOSITE HAND



2 RIGHT SIDE ELEVATION
SCALE: 1/4" = 1'-0" CONCESSIONS BUILDING
LEFT SIDE OPPOSITE HAND



4 FRONT ELEVATION
SCALE: 1/4" = 1'-0" TOILETS BUILDING



1 FRONT ELEVATION
SCALE: 1/4" = 1'-0" CONCESSIONS BUILDING

Drawing Number

A2

DATE: 04/05/2021

Widner & Associates, Inc.
P.O. BOX 102, MACON, GEORGIA 31202
PH: (478) 748-2000
EMAIL: widner@widner-associates.com



BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
MACON, GEORGIA

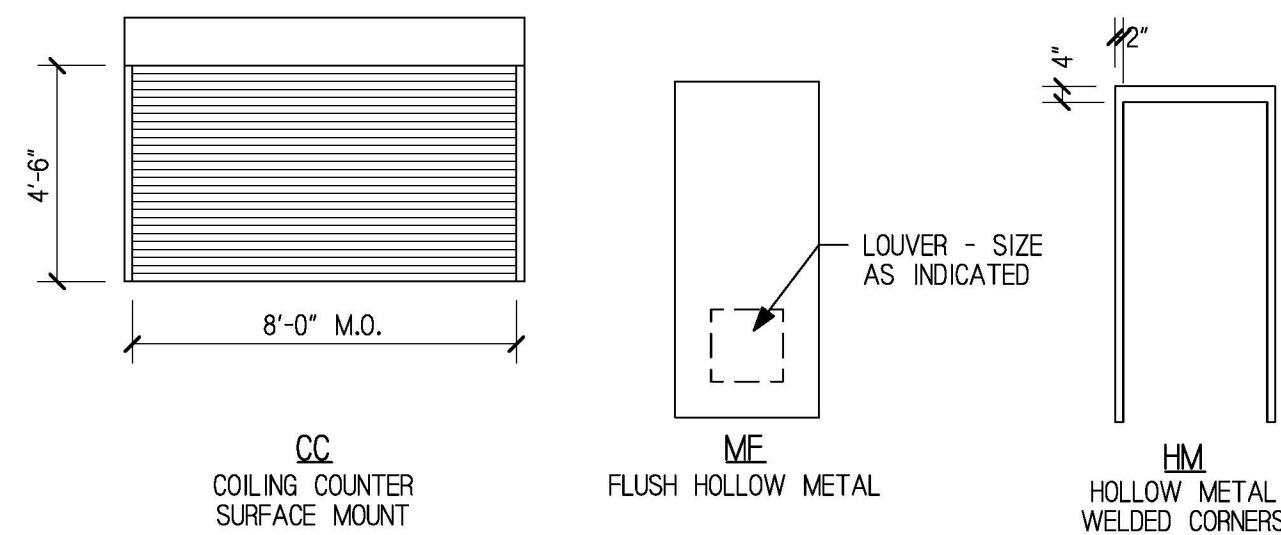
PROJECT NUMBER 20-119

A2

DATE: 04/05/2021

HARDWARE SCHEDULE		OPERATION	HINGES	ACCESSORIES		T-HOLD
		ACCESSIBLE PUSH PLATE / PULL BAR				
		AUXILIARY DEADLOCK - THUMB-TURN				
		ENTRY LOCKSET W/ DEADBOLT				
		STANDARD 4.5 X 4.5				
		CONT. GEARED HINGES				
		FLUSH BOLTS				
		O.H. SURFACE CLOSER W/ HOLD OPEN				
		LATCH GUARD				
		ARMOR PLATE				
		KICKPLATE				
		DRIP CAP				
		VIEWER				
		ACCESS. FLAT SADDLE				
		BUMPER TYPE THRESHOLD				
		WEATHERSTRIP				
1	TOILETS	●	●	●	●	●
2	STORAGE		●	●	●	●
3	CONCESSION		●	●	●	●
4	STORAGE PR.		●	●	●	●

REFER TO SPECIFICATIONS FOR MORE DETAILED FUNCTIONAL REQUIREMENTS



DOOR TYPES FRAME TYPES

DOOR SCHEDULE											
DOOR NO.	LEAF QUAN.	DOOR TYPE	SIZE			FRM. TYPE	FIRE LABEL	DETAILS			REMARKS
			WIDTH	HEIGHT	THICK			HEAD	JAMB	SILL	
11	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	1 1
12	1	MF	3'-4"	7'-0"	1 3/4"	HM	-	1	2	6	3 1
13	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	2 2
14	2	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	4 2
15	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	1 1
16	1	CC	8'-0"	4'-8"	1 3/4"	-	-	4	5	3	-
17	1	CC	8'-0"	4'-8"	1 3/4"	-	-	4	5	3	-
21	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	1 1
22	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	2 2
23	1	MF	3'-0"	7'-0"	1 3/4"	HM	-	1	2	6	1 1

DOOR GENERAL NOTES

- ALL DOORS IN MEANS OF EGRESS TO BE OPENABLE FROM INSIDE AT ALL TIMES WITHOUT USE OF A KEY OR SPECIAL TOOL OR KNOWLEDGE.
- ALL LEVERS AND PULLS TO BE HANDICAP ACCESSIBLE.
- ALL CLOSERS PULL FORCE TO BE IN ACCORDANCE WITH THE ADA.
- ALL FIRE RATED OPENINGS ARE TO BE ASSEMBLIES TESTED IN ACCORDANCE WITH NFPA 80 FOR POSITIVE PRESSURE.

DOOR NUMBERED REMARKS

- FURNISH DOOR WITH 18" X 18" LOUVER.
- FURNISH DOOR WITH 12" X 12" LOUVER. (ONLY 1 LEAF IN PAIR)

ROOM FINISH SCHEDULE

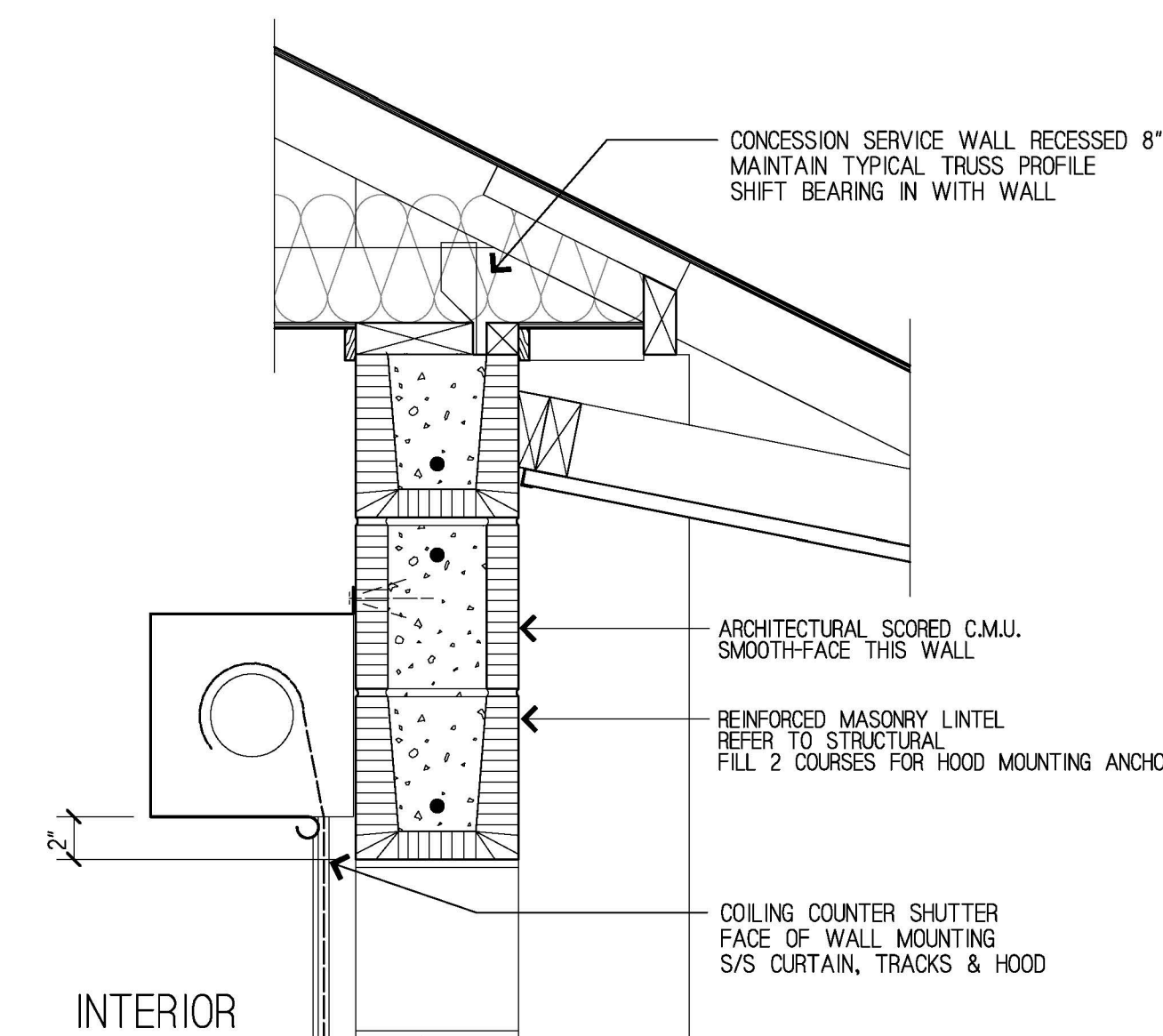
RM. NO.	ROOM NAME	FLOOR	BASE	WALLS	WAINSCOT	CEILING	CEILING HEIGHT	REMARKS
101	FEMALE TOILET	EPOXY	4" EPOXY	EPCB	-	PP	9'-5"	-
102	CONCESSION	EPOXY	4" EPOXY	EPCB	-	PP	9'-5"	-
103	JANITOR	EPOXY	R	EPCB	-	PGB	9'-4"	1
104	STORAGE	EPOXY	R	EPCB	-	PGB	9'-4"	1
105	MALE TOILET	EPOXY	4" EPOXY	EPCB	-	PP	9'-5"	-
201	FEMALE TOILET	EPOXY	4" EPOXY	EPCB	-	PP	9'-5"	-
202	JANITOR	EPOXY	R	EPCB	-	PGB	9'-4"	1
203	MALE TOILET	EPOXY	4" EPOXY	EPCB	-	PP	9'-5"	-

ROOM FINISH LEGEND

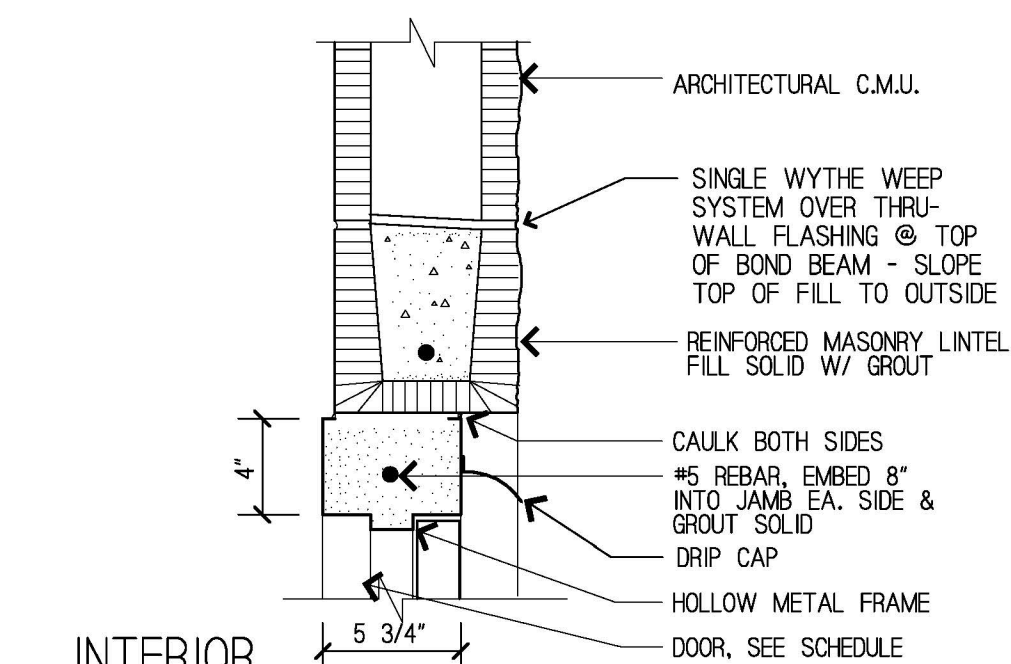
- EPCB EPOXY PAINTED CONCRETE BLOCK
- EPOXY HIGH PERFORMANCE NON-SLIP EPOXY FLOOR COATING
- PGB PAINTED GYPSUM BOARD
- PP PAINTED PLYWOOD
- R RUBBER

FINISH REMARKS

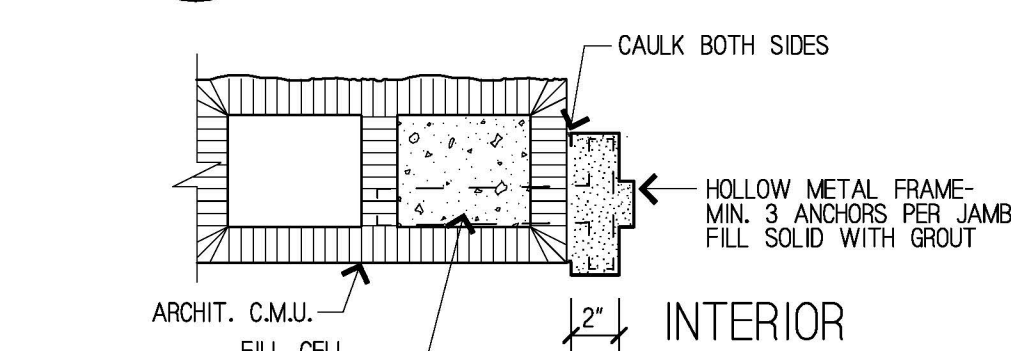
- 1 HOUR FIRE RATED ENCLOSURE



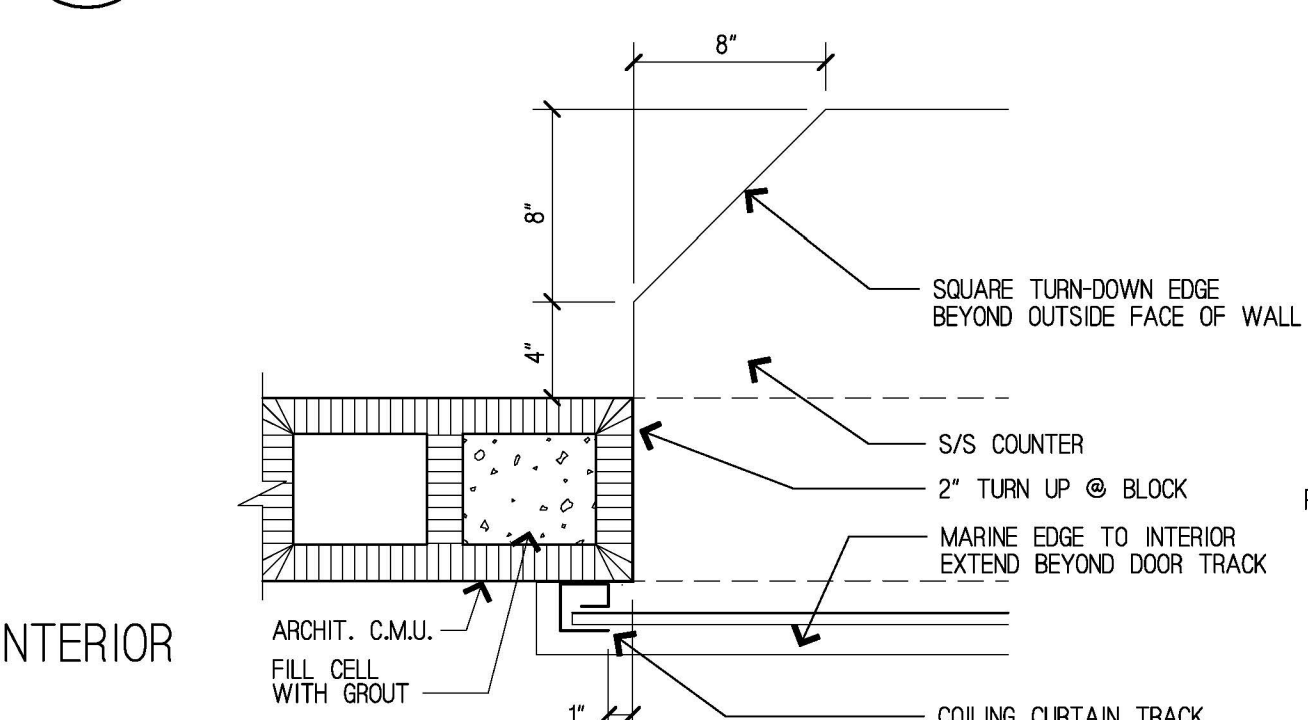
4 HEAD SCALE: 1 1/2"=1'-0" COILING COUNTER DOOR



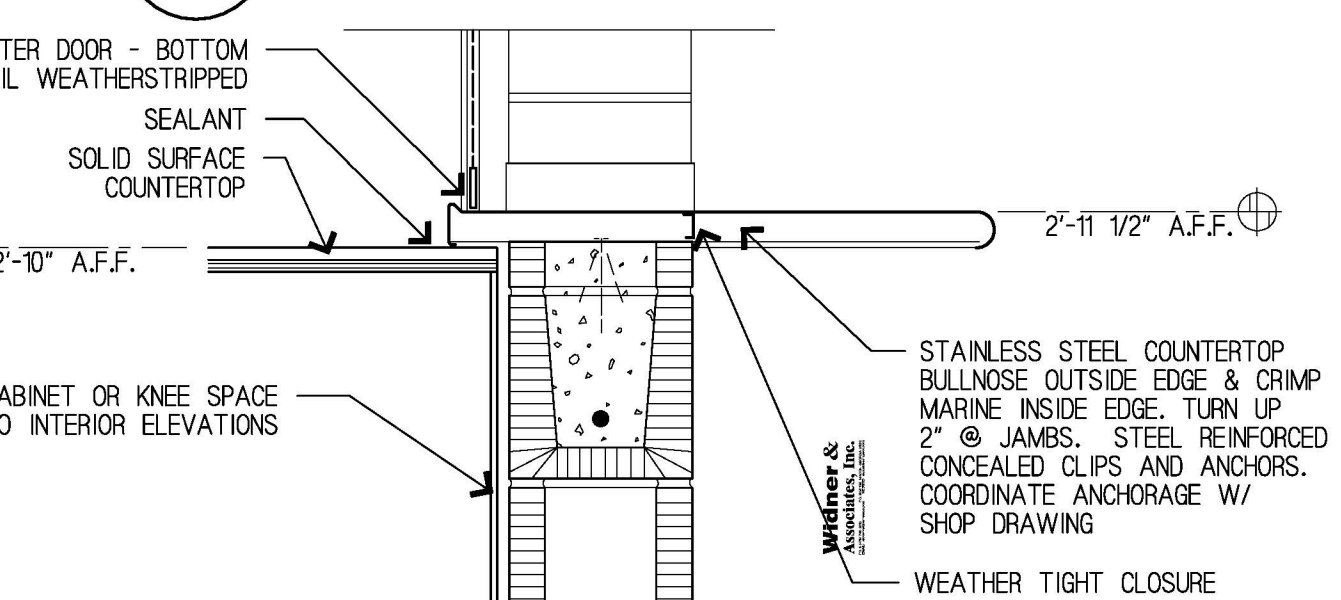
1 HEAD SCALE: 1 1/2"=1'-0" C.M.U. WALL



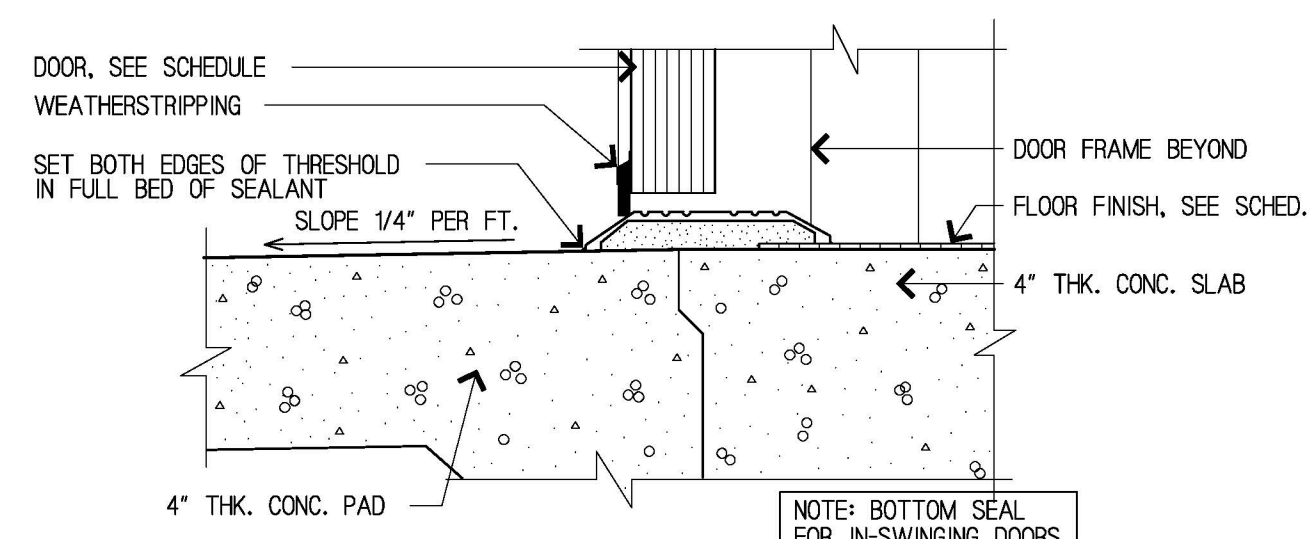
2 JAMB SCALE: 1 1/2"=1'-0" C.M.U. WALL



5 JAMB SCALE: 1 1/2"=1'-0" COILING COUNTER DOOR



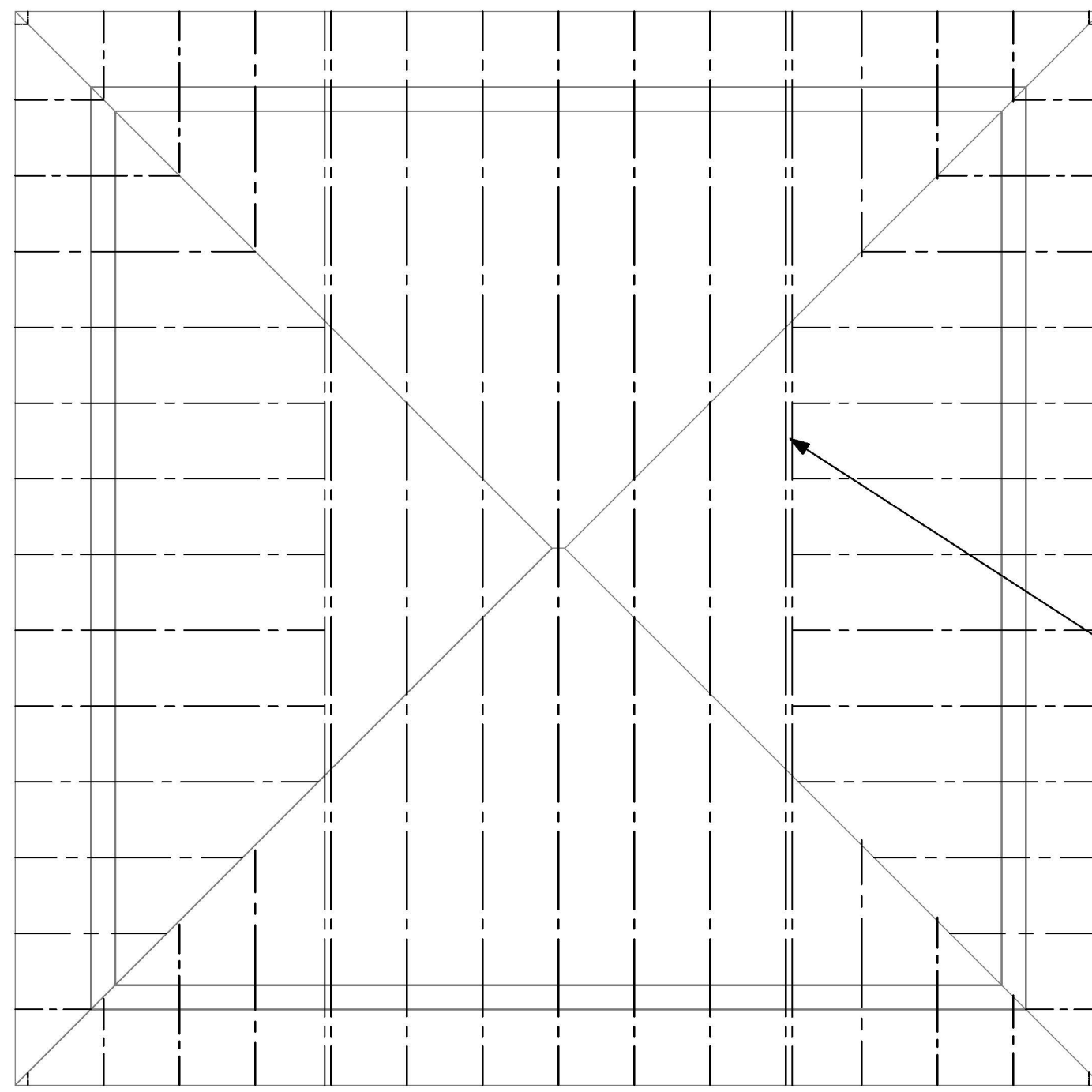
3 SILL SCALE: 1 1/2"=1'-0" COILING COUNTER DOOR



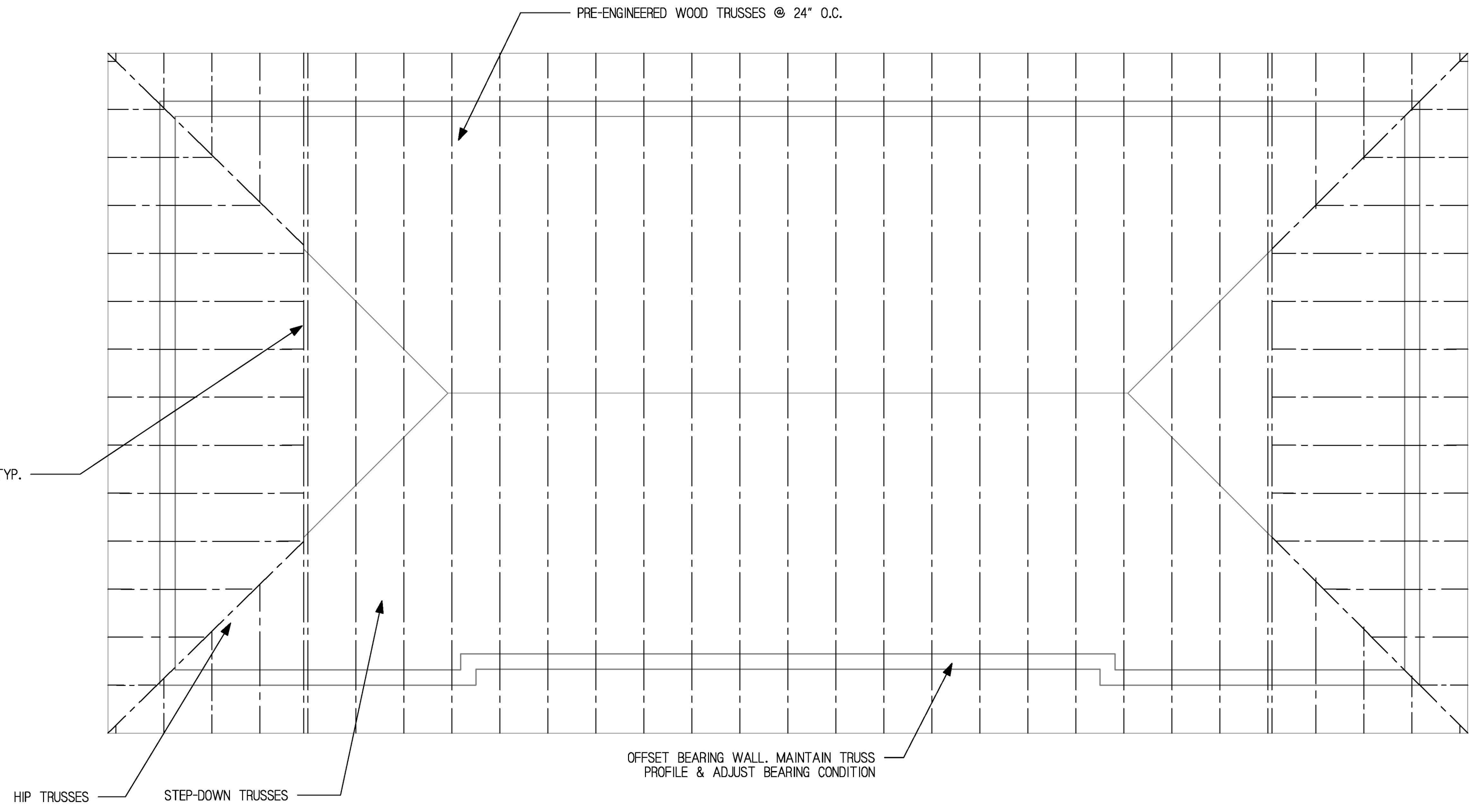
6 SILL SCALE: 3"=1'-0" ACCESSIBLE THRESHOLD

SIGNAGE SCHEDULE				
MARK	TYPE	TEXT	SIZE	PICTOGRAMS
1	RAISED CONTENT, BRAILLE	WOMEN	9" X 9"	ACCESSIBILITY, FEMALE
2	RAISED CONTENT, BRAILLE	MEN	9" X 9"	ACCESSIBILITY, MALE
3	RAISED CONTENT, BRAILLE	EXIT DISCHARGE	3" X 12"	-

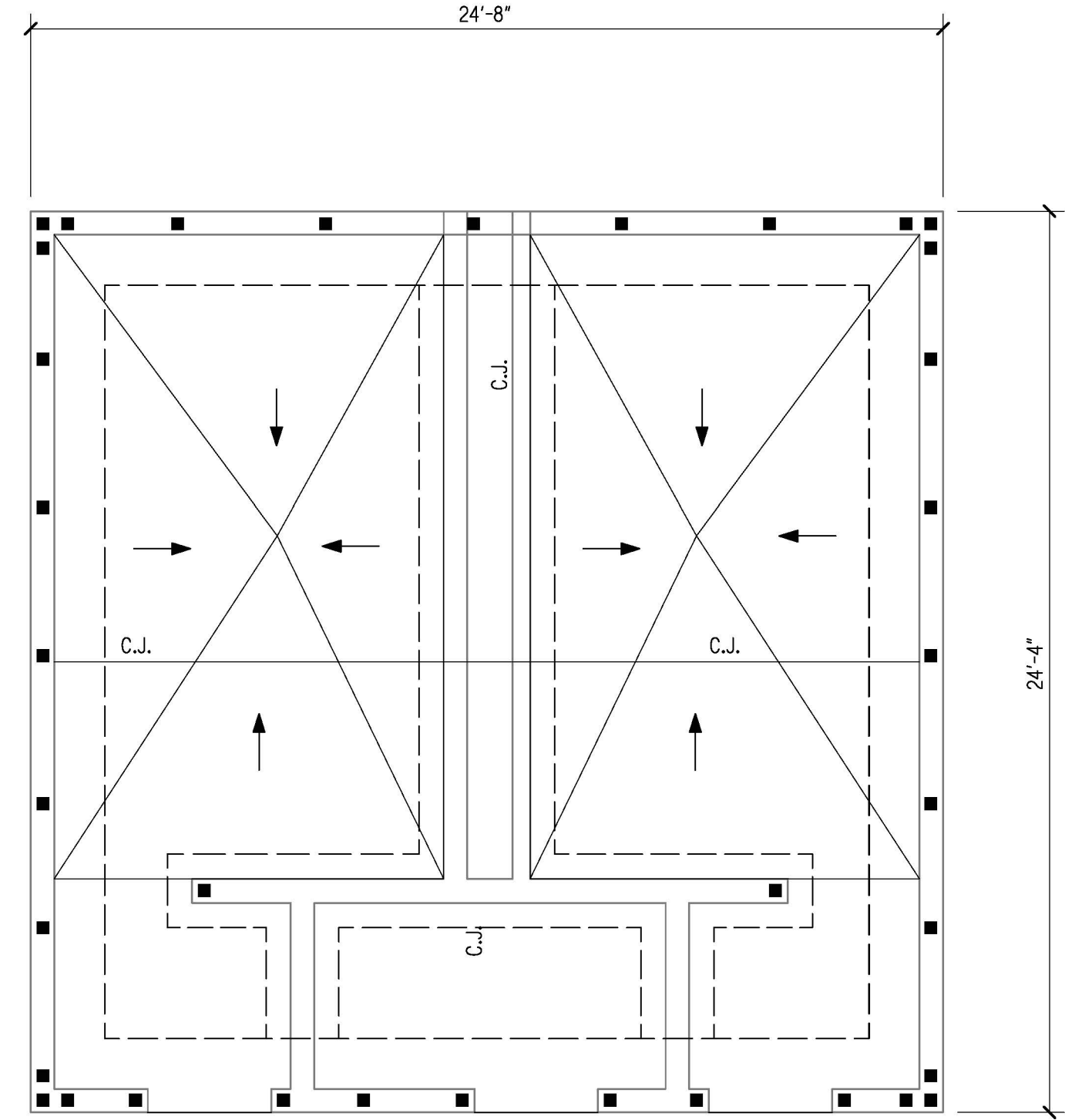
REFER TO SITE PLAN FOR PARKING SIGN
REFER TO ELECTRICAL FOR ILLUMINATE EXIT SIGNS



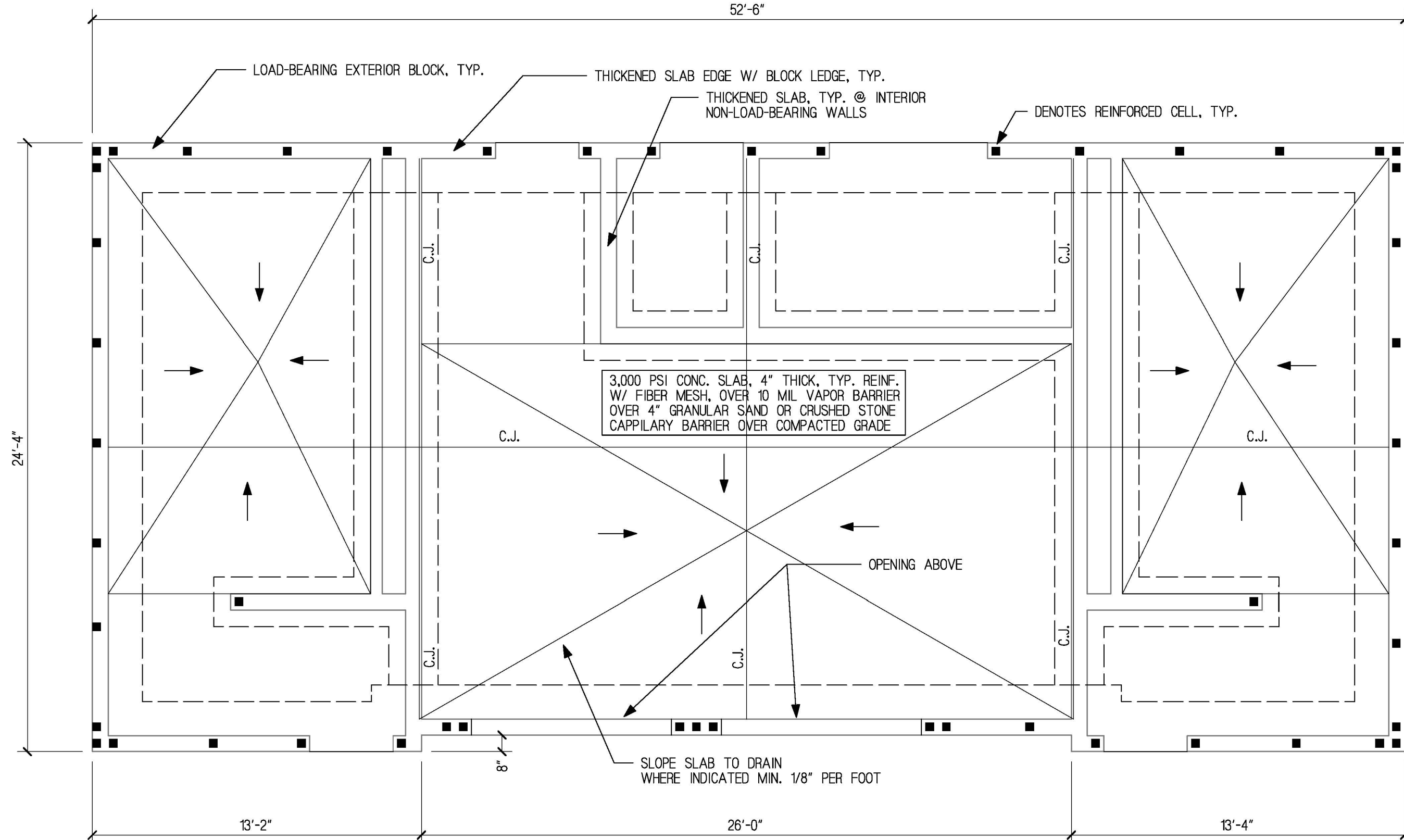
4 ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0" TOILETS WITH JANITOR



3 ROOF FRAMING PLAN
 SCALE: 1/4" = 1'-0" TOILETS & CONCESSION



2 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0" TOILETS WITH JANITOR



1 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0" TOILETS & CONCESSION

Drawing Number
S1
 DATE: 04/05/2021

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**BLOOMFIELD RECREATION CENTER
 NEW CONCESSIONS / TOILETS**
 MACON, GEORGIA

PROJECT NUMBER 20-119

S1

DATE: 04/05/2021

TRILOGY ENGINEERING, LLC
 2550 Sandy Plains Rd, Suite 225
 Marietta, GA 30066
 PH: 404-556-5923

STRUCTURAL NOTES

A. GENERAL:

- WHERE A SECTION OR DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY TO ALL LIKE AND SIMILAR CONDITIONS.
- COORDINATE ALL LIMITS AND DEPTHS OF DEPRESSIONS FOR FLOOR FINISHES WITH ARCHITECTURAL DRAWINGS AND SCHEDULES. LIMITS SHOWN ON STRUCTURAL DRAWINGS ARE SCHEMATIC.
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DO NOT SCALE DRAWINGS. FOLLOW DIMENSIONS SHOWN ON PLANS.
- CONTRACTOR SHALL COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN HEREIN WITH ARCHITECTURAL PLANS, SECTIONS AND DETAILS PRIOR TO CONSTRUCTION OR MATERIAL PURCHASE AND SHALL NOTIFY ARCHITECT IN WRITING OF DISCREPANCIES. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS AND ELEVATIONS NOT SHOWN HEREIN.
- DESIGN LOAD BASIS ARE AS FOLLOWS:
RISK CATEGORY - II
ROOF DEAD LOAD: 20 PSF
ROOF LIVE LOAD: 20 PSF
WIND VELOCITY: 109 MPH (ULTIMATE) EXPOSURE: B.
ROOF SNOW LOAD: 5 PSF
SEISMIC SOILS CLASSIFICATION - D
SEISMIC DESIGN CATEGORY - B
- ALL DESIGN SHALL BE IN COMPLIANCE WITH 2018 INTERNATIONAL BUILDING CODE W/ GA. AMENDMENTS.

B. FOUNDATION:

- FOUNDATIONS DESIGNED FOR 2000 PSF MAXIMUM ALLOWABLE SOIL BEARING PRESSURE UNLESS NOTED. ALLOWABLE BEARING PRESSURE SHALL BE VERIFIED BY FIELD TESTING USING HAND PENETROMETER TESTS AT EACH COLUMN FOOTING EXCAVATION AND MAXIMUM 75' ON CENTER IN WALL FOOTINGS AND THICKENED SLABS.
- ALL FOOTINGS AND SLABS SHALL BEAR ON COMPACTED SUBGRADE.
- REMOVE ALL WATER SOFTENED SOILS FROM FOOTING EXCAVATIONS PRIOR TO PLACING CONCRETE. FILL REMAINING VOIDS WITH ADDITIONAL CONCRETE.
- SUPPORT ALL BOTTOM REINFORCING IN FOUNDATION WITH WHOLE CONCRETE BRICKS AT MAX. 48" O.C.
- ALL FOOTING, PIER AND OTHER FOUNDATION REINFORCING SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
- WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTINGS, STEP FOOTING DOWN TO PROVIDE CLEARANCES INDICATED ON DETAIL: "WALL FOOTING INTERFERENCE AT GRAVITY SEWER" UNLESS OTHERWISE SPECIFIED. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES AND INVERTS.
- PROVIDE 1/4" P.E.J. FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.

C. MATERIALS

CONCRETE:
STANDARD WEIGHT CONCRETE:
CONCRETE MASONRY FILL: 2500 PSI
FOUNDATIONS: 3000 PSI
OTHERS: 3000 PSI
REIN. STEEL: ASTM A615 GRADE 60
CONCRETE MASONRY UNITS: ASTM C-90 (LIGHTWEIGHT) F'M = 1350 PSI
MASONRY MORTAR: ASTM C270 TYPE S: F'C = 1350 PSI
MASONRY GROUT: ASTM C476 TYPE PM: F'C = 2500 PSI

D. TIMBER FRAMING:

- LOCATION, NUMBER AND DIMENSIONS OF FRAMING ARE DESIGNED TO SHOW GENERAL ARRANGEMENT ONLY. ACTUAL SPANS, SPACINGS, ETC. SHALL BE DETERMINED FROM ARCHITECTURAL DETAILS AND DIMENSIONED ON SHOP DRAWINGS.
- SEE ARCHITECTURAL PLANS AND DETAILS FOR EDGE SECTIONS, HEADER AND LINTEL LOCATIONS, AND ALL NON-STRUCTURAL FRAMING AND TRIM
- PROVIDE HEADERS, BRIDGING, CONNECTORS, BLOCKING TRIMMERS, ETC. AS REQUIRED AND RECOMMENDED BY REFERENCES BELOW UNLESS OTHERWISE NOTED.

REFERENCES - ALL FRAMING SHALL COMPLY WITH APPLICABLE SECTION OF THE FOLLOWING UNLESS OTHERWISE SHOWN ON PLANS:

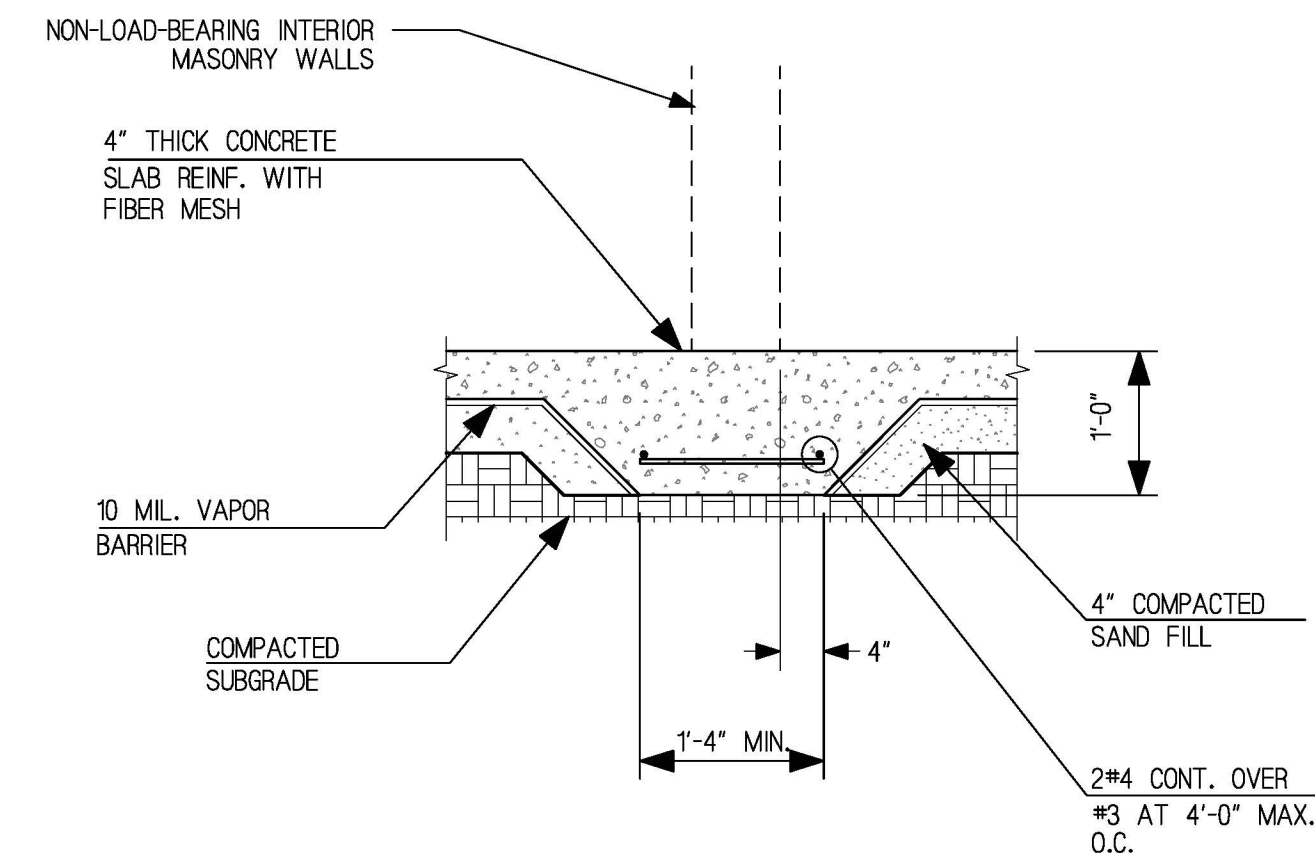
- TRUSS PLATE INSTITUTE PUBLICATION TPI-78, "DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTED TO WOOD TRUSSES".
- INTERNATIONAL BUILDING CODE - 2012 EDITION
- AITC TIMBER CONSTRUCTION STANDARDS - (AITC 100)

E. ROOF FRAMING:

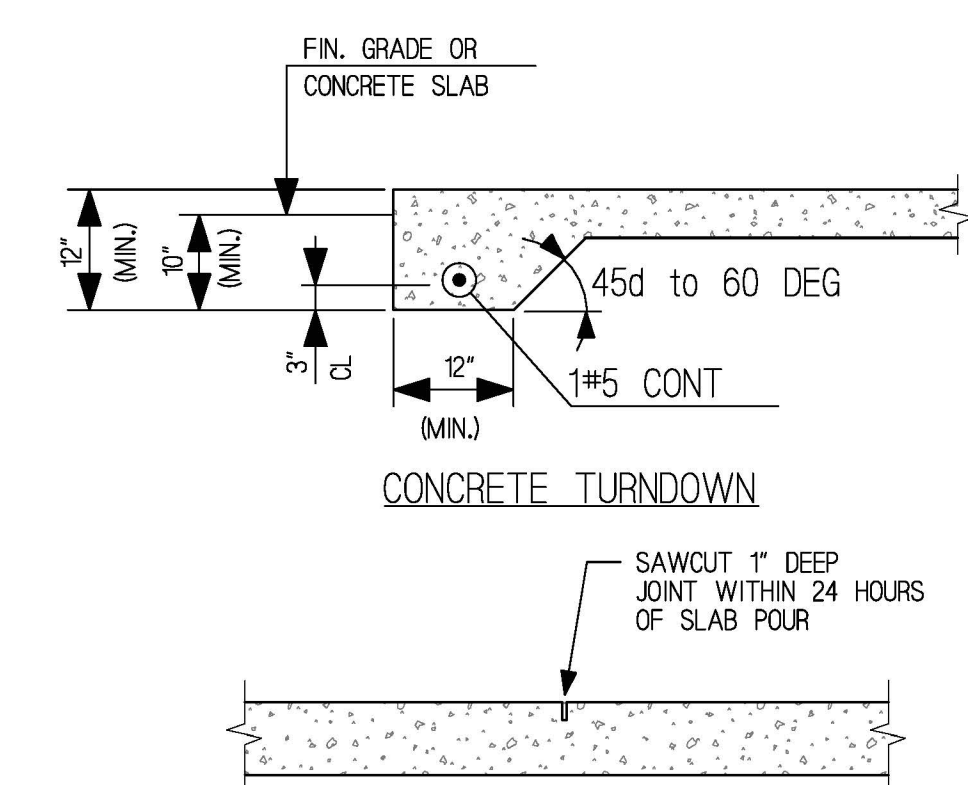
- TRUSSED RAFTERS:
 - ALL TRUSSED RAFTERS SHALL BE DESIGNED, FABRICATED AND ERECTED TO SUPPORT THE FOLLOWING MINIMUM LOADS:
LIVE - TOP CHORD - 20 PSF
DEAD - TOP CHORD - 10 PSF
- BOT CHORD - 10 PSF
WIND LOAD - 109 MPH WIND FACTORED AS PER IBC 2018 CODE REQUIREMENTS:
SNOW - TOP CHORD - 5 PSF
 - PROVIDE AT EACH TRUSS BEARING, GALVANIZED METAL HURRICANE ANCHORAGES SUFFICIENT TO RESIST HORZ. AND VERTICAL WIND COMPONENTS AS NOTED. UPLIFT LOAD AS DETERMINED BY TRUSS MANUFACTURER FROM REQUIREMENTS OF LOCAL BUILDING CODES.
 - INSTALL TEMPORARY AND PERMANENT VERTICAL BRACING OR OTHER BRACES AS RECOMMENDED BY THE TRUSSED RAFTER MANUFACTURER AND/OR APPLICABLE REFERENCES.
 - SHOP DRAWINGS, COMPUTATIONS, ETC. TO BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL PROVIDE ERECTION LAYOUT FOR TRUSS RAFTERS, OUTRIGGERS, HEADERS, BRACING, ETC. SEE ARCHITECTURAL AND STRUCTURAL PLANS FOR SUPPORT LOCATIONS.
 - CALCULATIONS AND DRAWINGS SHALL BEAR THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF GEORGIA.
 - MIN. MEMBER SIZES TO BE 2X4 EXCEPT WHERE OTHERWISE SHOWN
 - TRUSS WEB TO CHORD CONNECTION SHALL BE MADE WITH APPROVED GALVANIZED STEEL TRUSS CONNECTION PLATES MEETING ALL REQUIREMENTS OF THE TRUSS PLATE INSTITUTE.
 - MAXIMUM LIVE LOAD DEFLECTION OF TRUSSES SHALL BE L/240.
 - TRUSS BRIDGING SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION AND APPLICABLE REFERENCES NOTED HEREIN.
 - PROVIDE END WALL TRUSSES AT GABLE ENDS. PROVIDE OPENINGS FOR GABLE END VENTS AS INDICATED.
 - FOR PRE-ENGINEERED TIMBER BEAMS, FURNISH BEARING LENGTH & DETAIL FOR CONDITION INDICATED.

F. MASONRY LINTEL SCHEDULE

STANDARD LINTELS (UNLESS DETAILED OR NOTED)
MAX. 3'-4" SPAN: 8" DEEP CONCRETE FILLED CHANNEL BLOCK, MINIMUM 8" BEARING EACH END, REINFORCED WITH:
2#4 BOT. (PROVIDE 1 CELL REINF. & GROUTED EA. SIDE)
MAX. 6'-0" SPAN: 16" DEEP CONCRETE FILLED CHANNEL BLOCK, MINIMUM 12" BEARING EACH END, REINFORCED WITH:
2#5 BOT. (PROVIDE 1 CELL REINF. & GROUTED EA. SIDE)
MAX. 8'-0" SPAN: 16" DEEP CONCRETE FILLED CHANNEL BLOCK, MINIMUM 16" BEARING EACH END, REINFORCED WITH:
2#4 TOP
2#6 BOT.
#2 "C" TIES AT 8" THRU OUT
(PROVIDE 2 CELLS REINF. & GROUTED EA. SIDE)

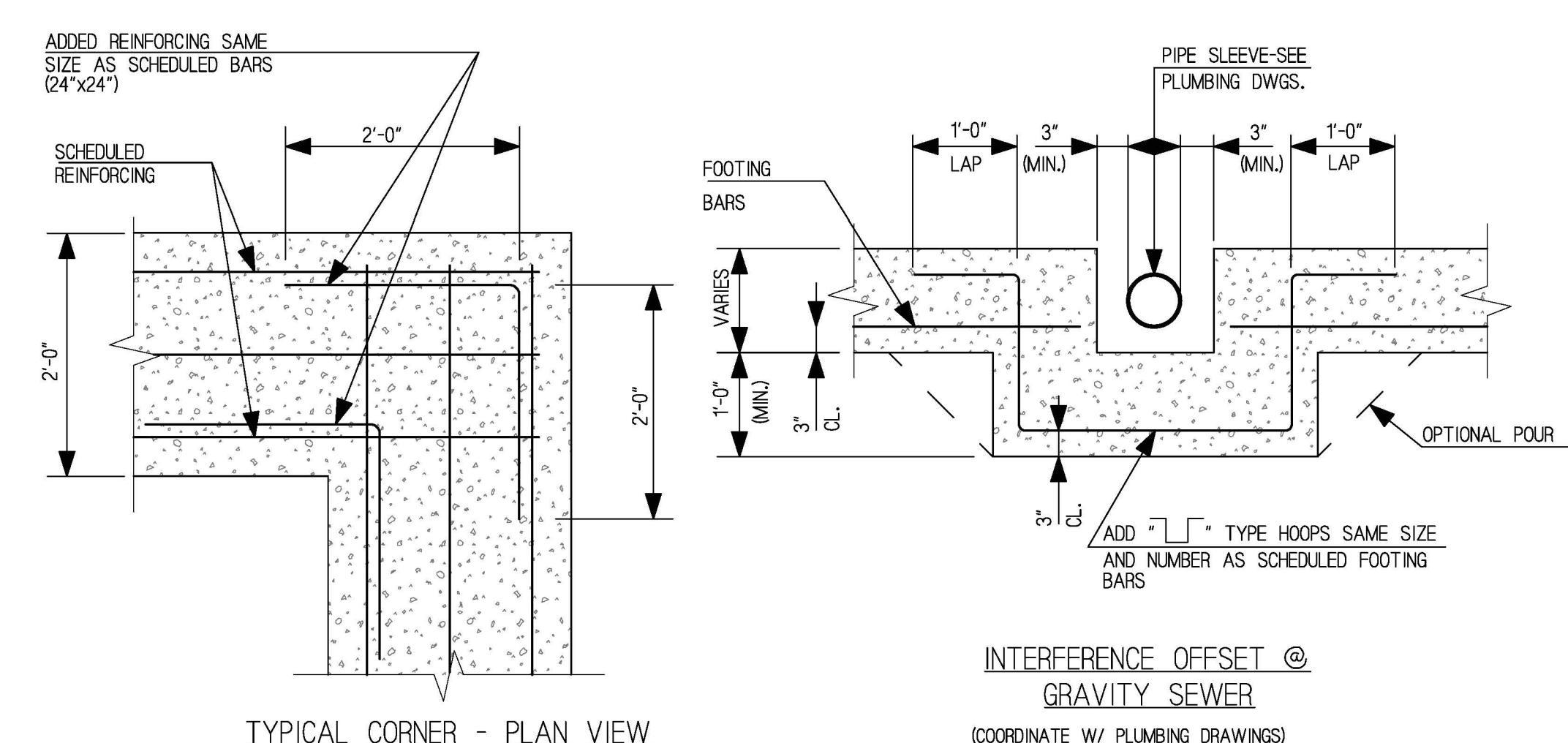


1 THICKENED SLAB
SCALE: 3/4" = 1'-0"

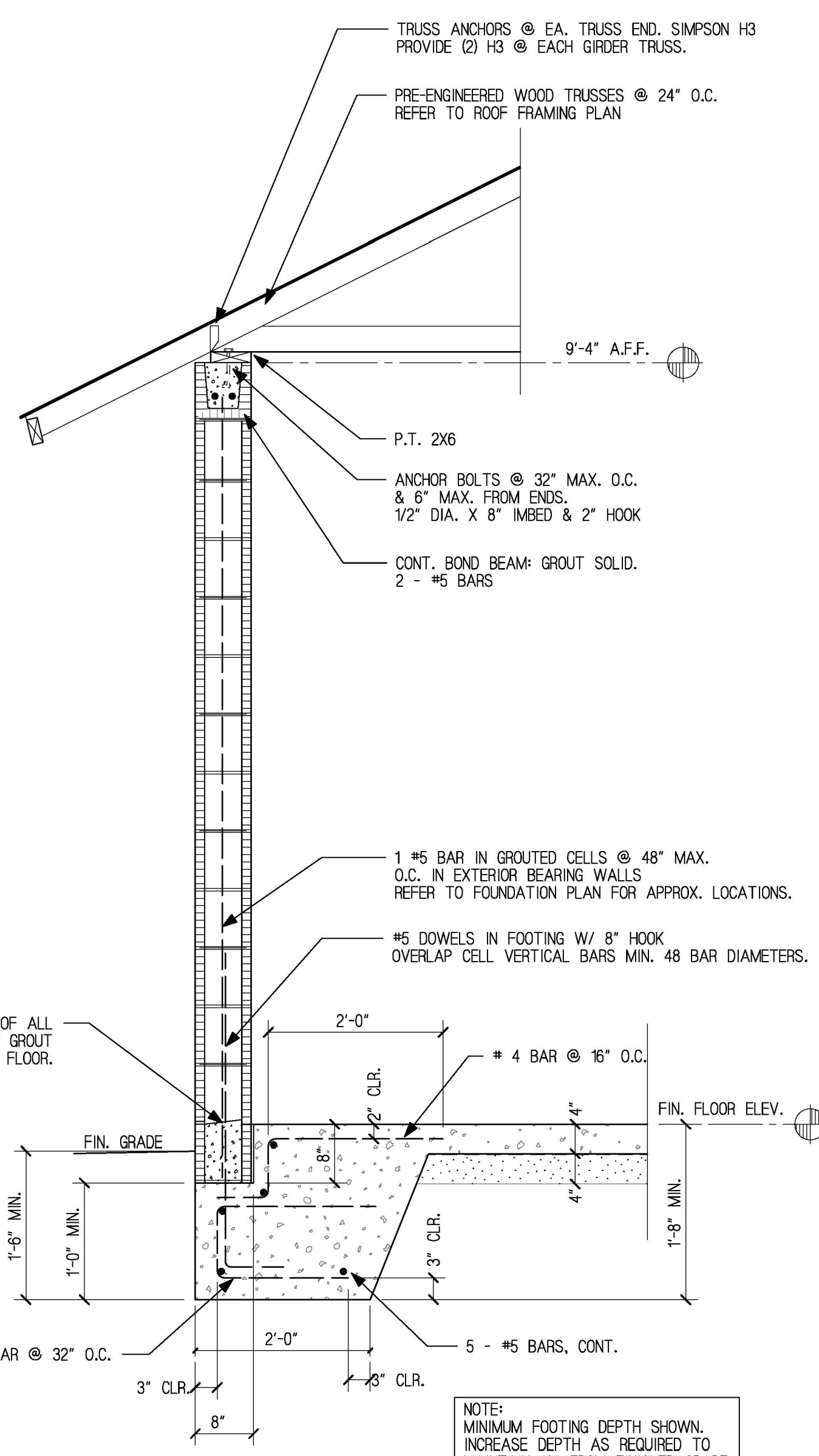


TYPICAL CONTRACTION JOINT
(INDICATED C.J. ON PLAN)

2 FLOOR SLAB DETAILS
SCALE: 3/4" = 1'-0"



3 WALL FOOTING DETAILS
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0" TYP. EXTERIOR

PLUMBING SPECIFICATIONS

Provide all plumbing items indicated on the drawings, described herein or otherwise required for a complete and proper installation, including:

- A. Plumbing fixtures, fittings and equipment.
B. Hot and cold water systems.
C. Drain waste and vent piping systems.
D. Indirect waste piping, including all valves, traps, piping and accessories for all equipment. Size per equipment requirements.

Comply with all applicable codes, standards and ordinances, including requirements of the Georgia State Minimum Standard Plumbing Code (2018 International Plumbing Code with all Georgia State Amendments), Georgia State Minimum Standard Energy Code (2015 International Energy Conservation Code with all Georgia State Amendments), and the DOJ 2010 ADA Standards for Accessible Design.

The contractor should not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearance. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or to actual building construction, shall be made at no additional cost to the owner.

The submission of a bid or proposal will be construed as evidence that the contractor has familiarized himself with the plans and building site. Claims made subsequent to the proposal for materials and/or labor due to difficulties encountered will not be recognized unless these difficulties could not have been foreseen, even though proper examination had been made.

Fabrication or ordering of any material or equipment prior to verification of site conditions shall be done at the contractor's risk.

All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings.

Coordinate with all trades and verify all equipment rough-in items and locations with the equipment supplier or contractor. All re-work and corrections required due to lack of coordination shall be the contractor's responsibility, and done at no cost to the owner.

Submit shop drawings and material data submittals to the engineer for approval before installation. No substitutions shall be allowed without prior approval by the engineer. Product data for piping, insulation, valves, specialties and all fixtures and equipment scheduled and specified here. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

All equipment and flue materials shall be U.L. listed.

Installation shall comply with manufacturer requirements including all clearances recommended for proper operation of service. All serviceable parts shall be readily accessible.

Below ground sanitary drain and vent piping shall be solid-wall ASTM D2665 schedule 40 PVC. Install underground, PVC plastic drainage piping according to ASTM D2321. Above ground sanitary drain and vent piping shall be cellular-core ASTM F891 schedule 40 PVC. Install aboveground PVC piping according to ASTM D 2665. All aboveground piping shall be adequately supported. Sanitary drain and vent piping shall have PVC Socket Fittings (ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe). Slope at 1/8 inch per foot continuously toward public sewer.

All above ground domestic water distribution piping shall be ASTM D 2846, SDR11, schedule 40 CPVC with socket fittings. All piping shall be adequately supported. Disinfect all domestic water piping after installation.

DOMESTIC WATER PIPING CLEANING

- A. Clean and disinfect potable domestic water piping as follows:
1. Purge new piping and parts of existing piping that have been altered, extended, or repaired before using.
2. Use purging and disinfecting procedures prescribed by authorities having jurisdiction; if methods are not prescribed, use procedures described in either AWWA C651 or AWWA C652 or follow procedures described below:
a. Flush piping system with clean, potable water until dirty water does not appear at outlets.
b. Fill and isolate system according to either of the following:
1) Fill system or part thereof with water/chlorine solution with at least 50 ppm (50 mg/L) of chlorine. Isolate with valves and allow to stand for 24 hours.
2) Fill system or part thereof with water/chlorine solution with at least 200 ppm (200 mg/L) of chlorine. Isolate and allow to stand for three hours.
c. Flush system with clean, potable water until no chlorine is in water coming from system after the standing time.
d. Repeat procedures if biological examination shows contamination.
e. Submit water samples in sterile bottles to authorities having jurisdiction.
B. Prepare and submit reports of purging and disinfecting activities. Include copies of water-sample approvals from authorities having jurisdiction.
C. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

Domestic water piping shall be insulated with Owens Corning type ASJ/SSL-II heavy density fiber glass with all service jacket. Insulation shall have a flame spread rating not to exceed 25 and a smoke density not to exceed 50 when tested in accordance with U.B.C. standard 42-1. Provide mastic on all joints and exposed ends of insulation. Insulate domestic cold water piping in exterior walls, attic, or unconditioned spaces with 1/2" thick insulation for piping 1-1/4" & smaller and 1" thick insulation for piping 1-1/2" & larger. Insulate all domestic hot water supply and return piping with 1" thick insulation for piping 1-1/4" & smaller and 1-1/2" thick insulation for piping 1-1/2" & larger.

HW & CW Valves: Use pipe size valves, as shown below:

A. Ball: Watts #B-6000 or B-6001.

B. Check: Watts #600 or #601S.

Domestic water valve boxes: Comply with AWWA M44 for cast-iron valve boxes. Include top section, adjustable extension of length required for depth of burial of valve, plug with lettering "WATER," and bottom section with base that fits over valve and with a barrel approximately 5 inches in diameter. Operating Wrenches: Steel, tee-handle with one pointed end, stem of length to operate deepest buried valve, and socket matching valve operating nut.

Ball-Valve-Type Hose-End Drain Valves shall comply with MSS SP-110 for standard-port, two-piece ball valves. Copper alloy body, 3/4", 400-psi pressure rating, replaceable seats and seals, vinyl-covered steel handle, threaded short nipple outlet with garden-hose thread complying with ASME B1.20.7 and cap with brass chain.

Balancing valves shall conform to MSS SP-110 for two-piece, copper-alloy ball valves. Balancing valves shall be copper alloy, memory-stop type, chrome-plated brass ball, replaceable seats & seals, vinyl-covered steel handle with memory-setting device.

Fixture tailpieces, wall escutcheon, and traps for lavatories and sinks shall be brass tubing, semi-cast, or cast iron: All brass tubing shall be 17 gage, chrome plated. Basket strainers for sinks.

Water Hammer Arresters shall comply with standard ASSE 1010, metal bellows type or copper piston type.

Urinal Supports shall be type I, urinal carrier with fixture support plates and coupling with seal and fixture bolts and hardware matching fixture for wall-mounting, urinal-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Lavatory Supports shall be type II, lavatory carrier with concealed arms and tie rod for wall-mounting, lavatory-type fixture. Include steel uprights with feet. For accessible-fixture support include rectangular steel uprights. Plate type wall hangers for water coolers.

Thermometers shall comply with standard ASME B40.200.

Lavatory/Sink supply fittings: NSF Standard; NSF/ANSI 61 Annex G, "Drinking Water System Components - Health Effects," for supply-fitting materials that will be in contact with potable water. Standard: ASME A112.18.1/ISA B125.1. Supply Slope: Chrome-plated-brass, one-quarter-turn, ball-type valve with inlet connection matching supply piping. Wheel handle operation. Risers: Chrome-plated, soft-copper flexible tube for exposed applications and ASME A112.18.6, braided- or corrugated-stainless-steel, flexible hose for conceal behind cabinet applications.

Provide ADA Supply and Drain Protective Shielding Guards on ADA fixtures that piping is exposed. Supply and Drain Protective Shielding Guards shall comply with ICC A117.1 and Americans with Disabilities Act (ADA) requirements. Manufactured plastic wraps shall cover hot and cold water supplies, trap, and drain piping.

All pipe hangers, clamps and channels shall be adequately sized to carry pipe loads and prevent sagging.

All other materials not specifically described but required for a complete and proper installation of work of this section, shall be new, first quality of their respective kinds, and as selected by the contractor subject to acceptance by the engineer.

Lay out the plumbing system in careful coordination with the drawings, determining proper elevations for all components of the system and using only the minimum number of bends to produce a satisfactorily functioning system. Follow the general layout shown on the drawings in all cases except where other work may interfere. Unless shown otherwise, lay out all pipes to fall within partition, wall floor, or roof cavities, and to not require furring other than as shown on the drawings.

Do not cut into or reduce the size of any load-carrying member without the prior approval of the architect. Install all pipes to clear all beams and obstructions.

Extend all plumbing vents above roof to parapet height.

Permanently close and make weathertight any openings or penetrations of the building envelope made for plumbing systems. All wall and floor penetrations shall be sleeved. All exterior wall or foundation wall penetrations shall use a mechanical seal.

Coordinate all roof penetrations with architectural plans and building and roofing trades.

Provide shut-off balls valves and unions at all water connections to equipment and appliances.

Isolate all dissimilar metals with "EPCO" dielectric unions, except for brass or bronze valves with steel pipe.

Protect the potable water supply against backflow and siphonage from equipment, fixtures, etc., using approved backflow and anti-siphon devices.

Thoroughly clean all piping and equipment. Removing all dirt, rust, oil, and plaster.

Test Sanitary and storm drainage piping by plugging all openings and filling with water to a height equal to a 10 foot head. Allow to stand one hour or longer as required. Repair leaking joints and then re-test.

No work shall be covered until it has been inspected and accepted by the local authority and the engineer.

Test water lines at 100 PSIG. Retain for 24 hours, repair all leaks and retest.

The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. All labor and materials necessary to repair or replace the system, or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.

Install piping in concealed locations, unless otherwise indicated and except in equipment rooms, and service areas. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal. Install piping to permit valve servicing. Install piping at indicated slopes. Install piping free of sags and bends. Install fittings for changes in direction and branch connections. Install piping to allow application of insulation. Select system components with pressure rating equal to or greater than system operating pressure. Install escutcheons for penetrations of walls, ceilings, and floors. Verify final equipment locations for roughing-in.

Confirm that millwork is constructed with adequate provision for the installation of counter top lavatories and sinks.

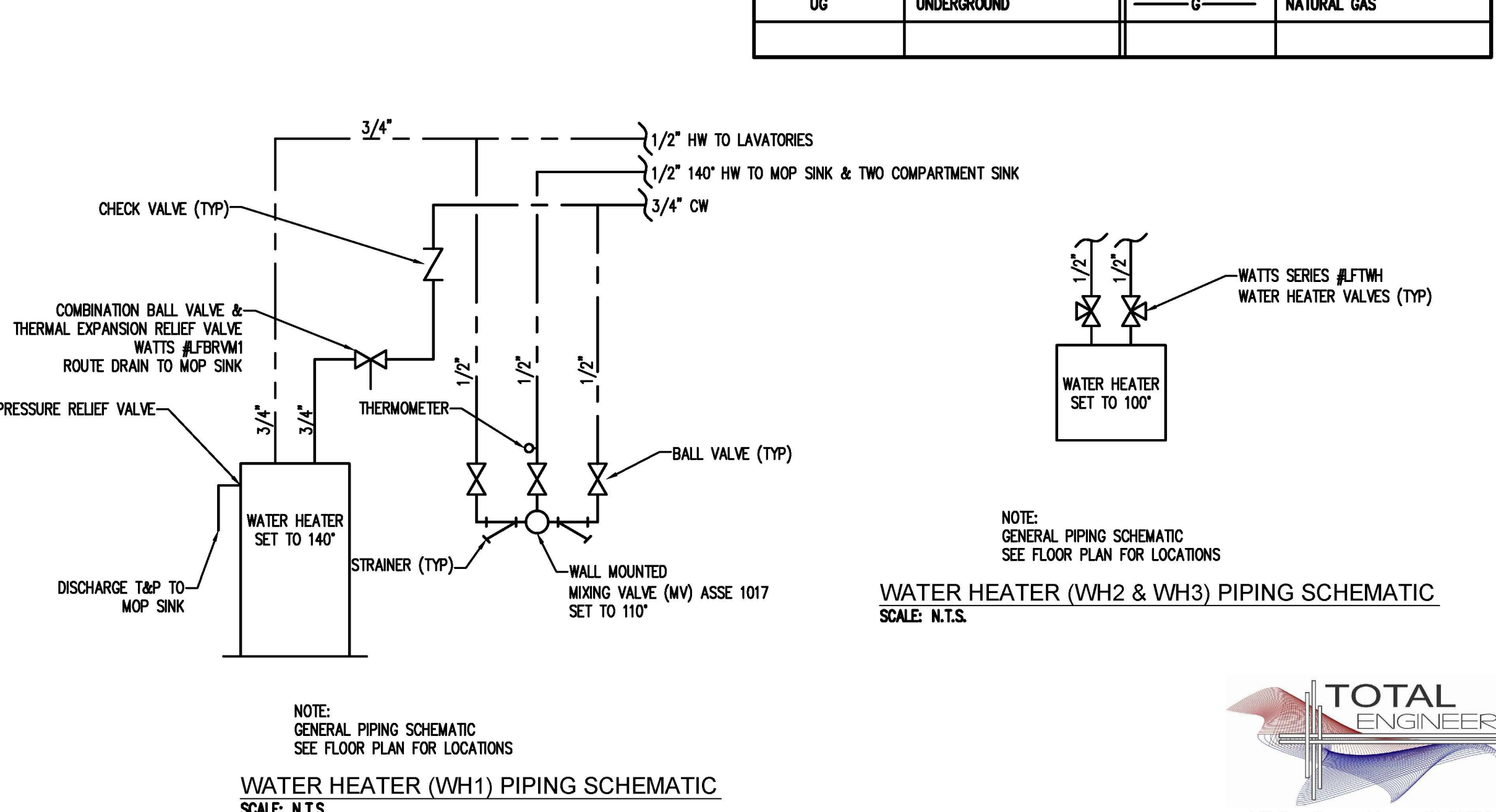
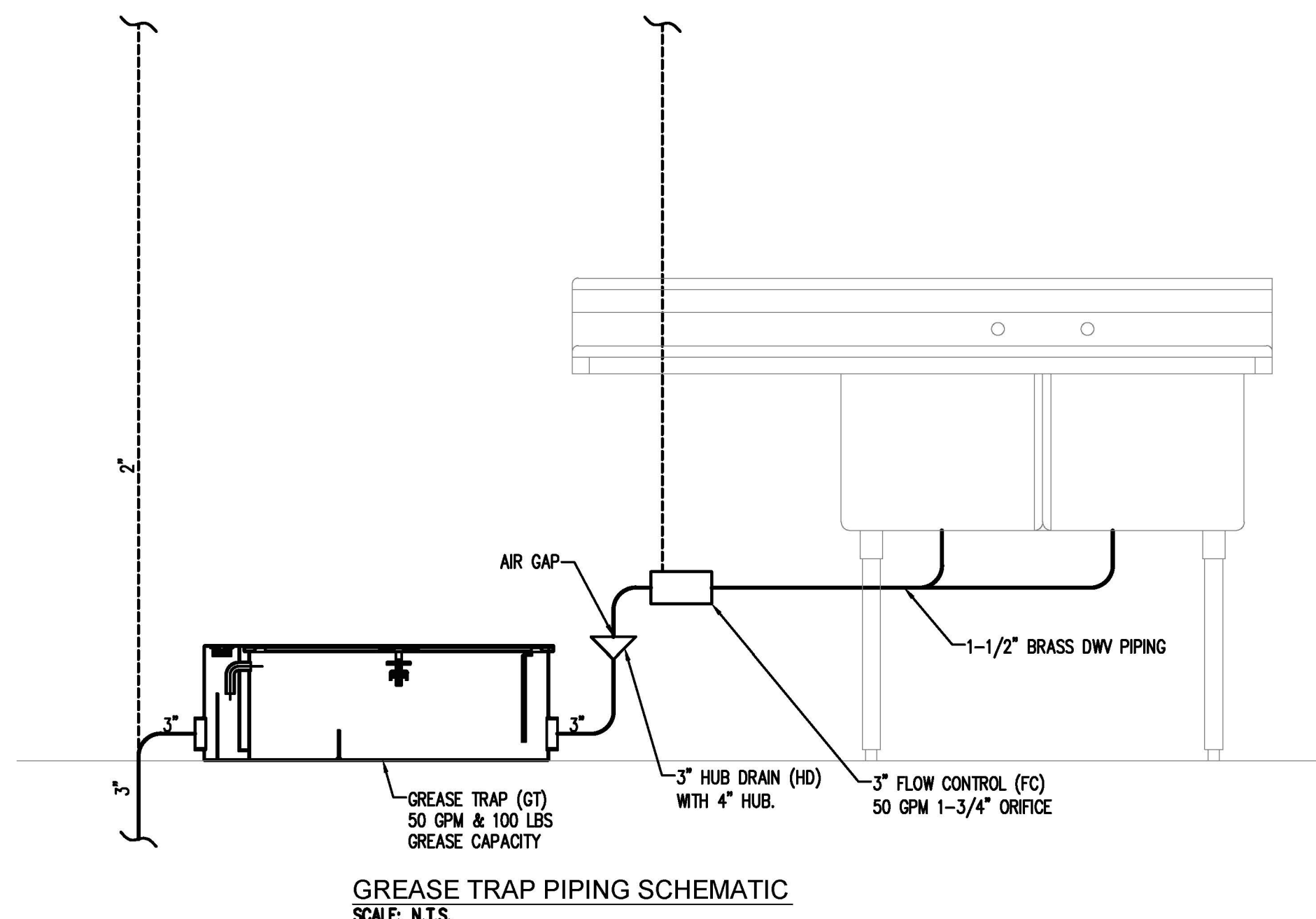
Seal fixtures to wall and floor surfaces with sealant, color to match fixture.

All vents thru roof (VTR) shall be offset a minimum of 10'-0" from all outside air intakes.

Provide a complete through penetration fire stopping assembly for fire resistance rated wall assemblies. The through penetration assembly must be listed by an approved third-party test agency (UL), and include the entire listed assembly with all notations. Refer to architectural drawings for fire wall locations.

Approved manufacturers: (Items submitted shall be approved by architect and engineer. Architect and engineer reserve the right to reject any item substituted for basis of design item for any reason.)

- China Fixtures: American Standard, Kohler, Toto, Zurn, Sloan
Faucets: Delta, T&S Brass, Chicago Faucets, Zurn, Kohler, Grahe, Moen, Speakman, Symmons
Supplies & Traps: Engineered Brass CO., McGuire, Charlotte Pipe, Brasscraft, IPS, Watts, Zurn
Flush Valves: Sloan, Delany, Zurn, American Standard
Floor Drains & Cleanouts: Zurn, Jay R Smith, Proset, Watts, Mifab, Wade, Josam, Sioux Chief, Oatey
Water Heaters: A.O. Smith, Lochinar, Bradford White, State, Vaughn
Toilet Seats: Bemis, Centoco, Church Seats, Osanite, Beneke, Zurn, Mainline
ADA Protective Shielding Pipe Covers: Engineered Brass, McGuire, Plumberex, TRUEBRO, Zurn, Oatey
Fixture Supports: MIFAB, Jay R. Smith, Wade, Watts, Zurn
Mixing Valves: Armstrong, Leonard, Powers, Symmons, Lowler
Wall Hydrants/ Hose Bibbs: MIFAB, Jay R. Smith, Wade, Watts, Woodford, Zurn
Water Hammer Arresters: AMTROL, Josam, MIFAB, PPP, Sioux Chief, Jay R. Smith, Wade, Watts, Zurn
Brass Valves: American, Crane, Watts, Apollo
Drinking Fountains: Elkay, Oasis, Haws
Mop Sinks: Stern Williams, Acorn, Fiat



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Drawing Number P1 DATE 04/07/21

Widner & Associates, Inc. P.O. BOX 203 MACON, GEORGIA 31201 PH: (478) 748-2000 FAX: (478) 748-2000 www.widner-associates.com



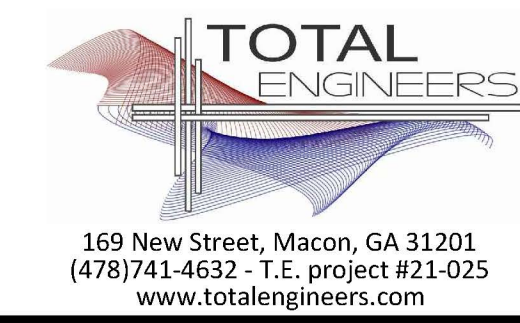
BLOOMFIELD RECREATION CENTER NEW CONCESSIONS / TOILETS MACON, GEORGIA

PROJECT NUMBER 20-119 P1 DATE 04/16/21

Table with 8 columns: #, FIXTURE TYPE, WASTE (BELOW FLOOR, FIXTURE CONNL), WATER SUPPLY (COLD, HOT), WATER FIX. CONNL (COLD, HOT), MODEL NUMBER. Includes items like WC1 PUBLIC FLUSH VALVE WATER CLOSET, WC2 PUBLIC FLUSH VALVE ADA WATER CLOSET, UR ADA URINAL, LAV PUBLIC ADA WALL-HUNG LAVATORY, MOP TERRAZZO MOP SINK, FD FLOOR DRAIN WITH WATERLESS TRAP PRIMER, HD HUB DRAIN, GCO GRADE CLEANOUT, WCO WALL CLEANOUT, DF ADA DRINKING FOUNTAIN, MV THERMOSTATIC MIXING VALVE, HB1 HOSE BIBB, HB2 HOSE BIBB, GT GREASE TRAP, FC FLOW CONTROL.

Table with 10 columns: MARK, MANUFACTURER, MODEL NUMBER, TYPE, GPH @100' RISE, GALLON, KW, PHASE, VOLTAGE. Includes items like WH1 A.O. SMITH DEN-52 LIGHT COMMERCIAL ELECTRIC, WH2 A.O. SMITH C2VA-140X COMMERCIAL ELECTRIC TANKLESS, ET ZURN/MLKINS XT-8 EXPANSION TANK.

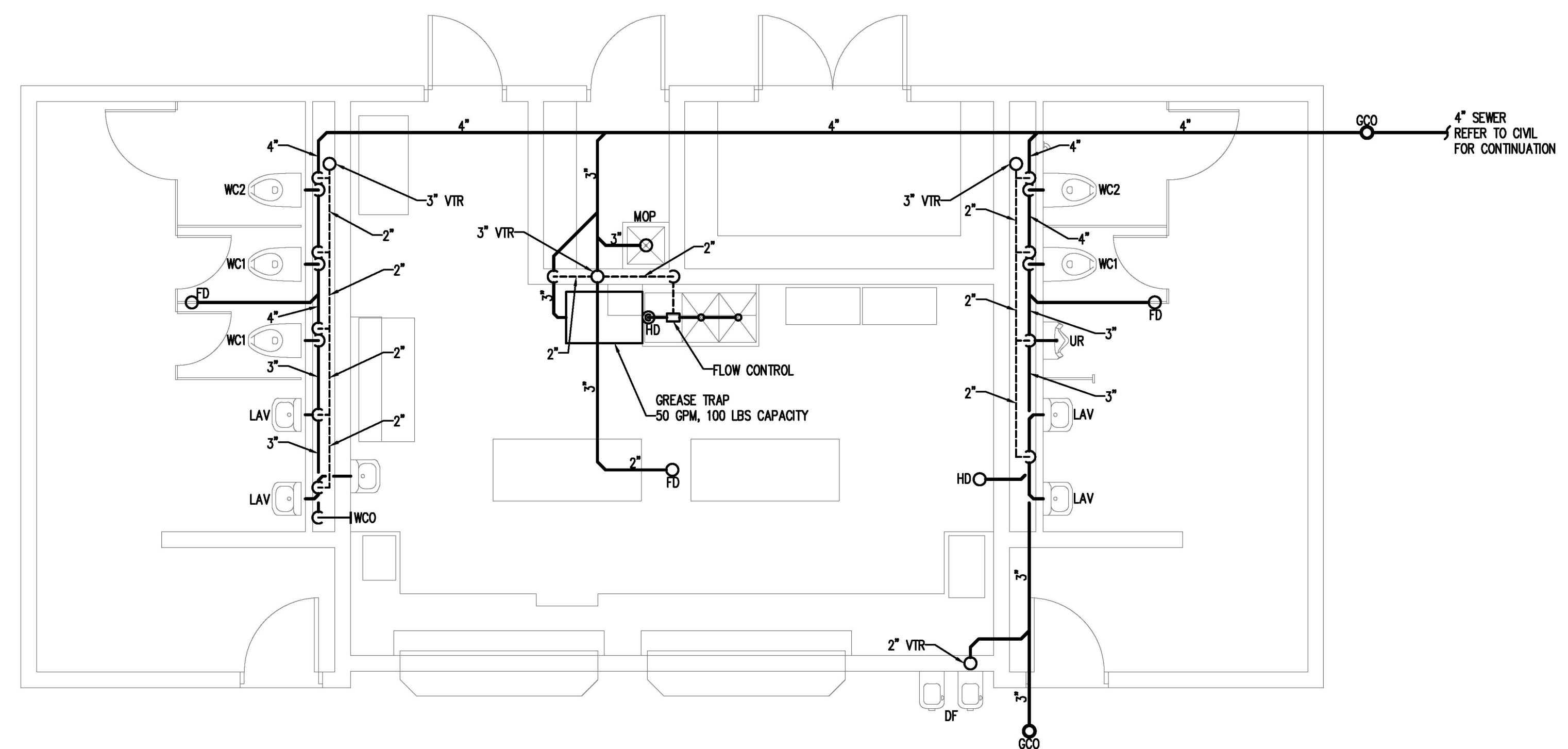
Table with 3 columns: Symbol, Name, Description. Includes BALL VALVE, CHECK VALVE, BALANCING VALVE, PIPE UP, PIPE DOWN, PDI UNIT WATER HAMMER ARRESTOR, F.F.E. FINISHED FLOOR ELEVATION, (TYP) TYPICAL, N.T.S. NOT TO SCALE, UG UNDERGROUND.



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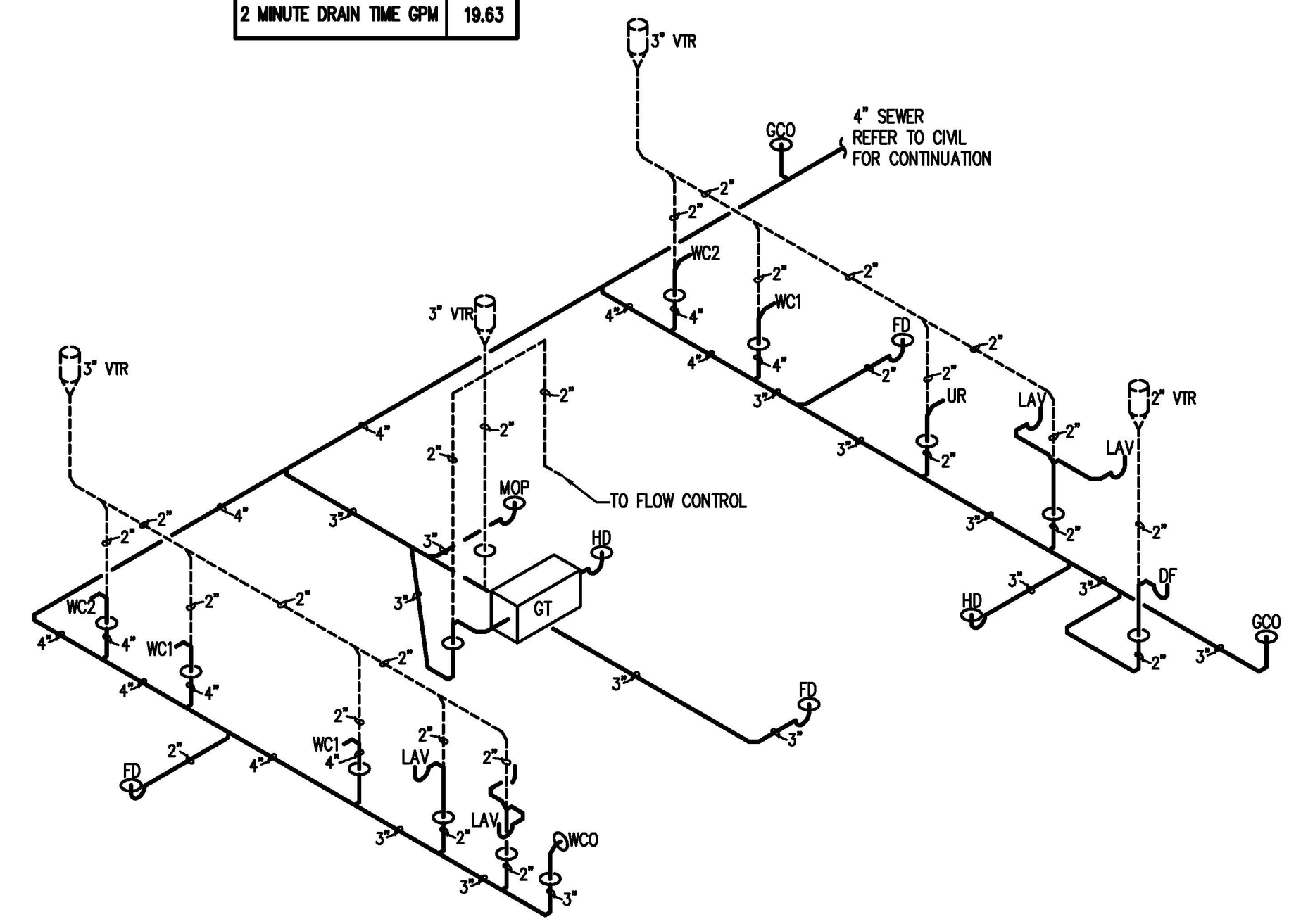
ABOVE GROUND GREASE TRAP CALCULATIONS

MARK	DESCRIPTION	BOWL LENGTH	BOWL WIDTH	BOWL DEPTH	NUMBER OF BOWLS	CUBIC INCH TOTAL	GPM	FLOW RATE
A3	TWO COMPARTMENT SINK	18"	24"	14"	2	12,096	39.27	100%
							1 MINUTE DRAIN TIME GPM	39.27
							2 MINUTE DRAIN TIME GPM	19.63

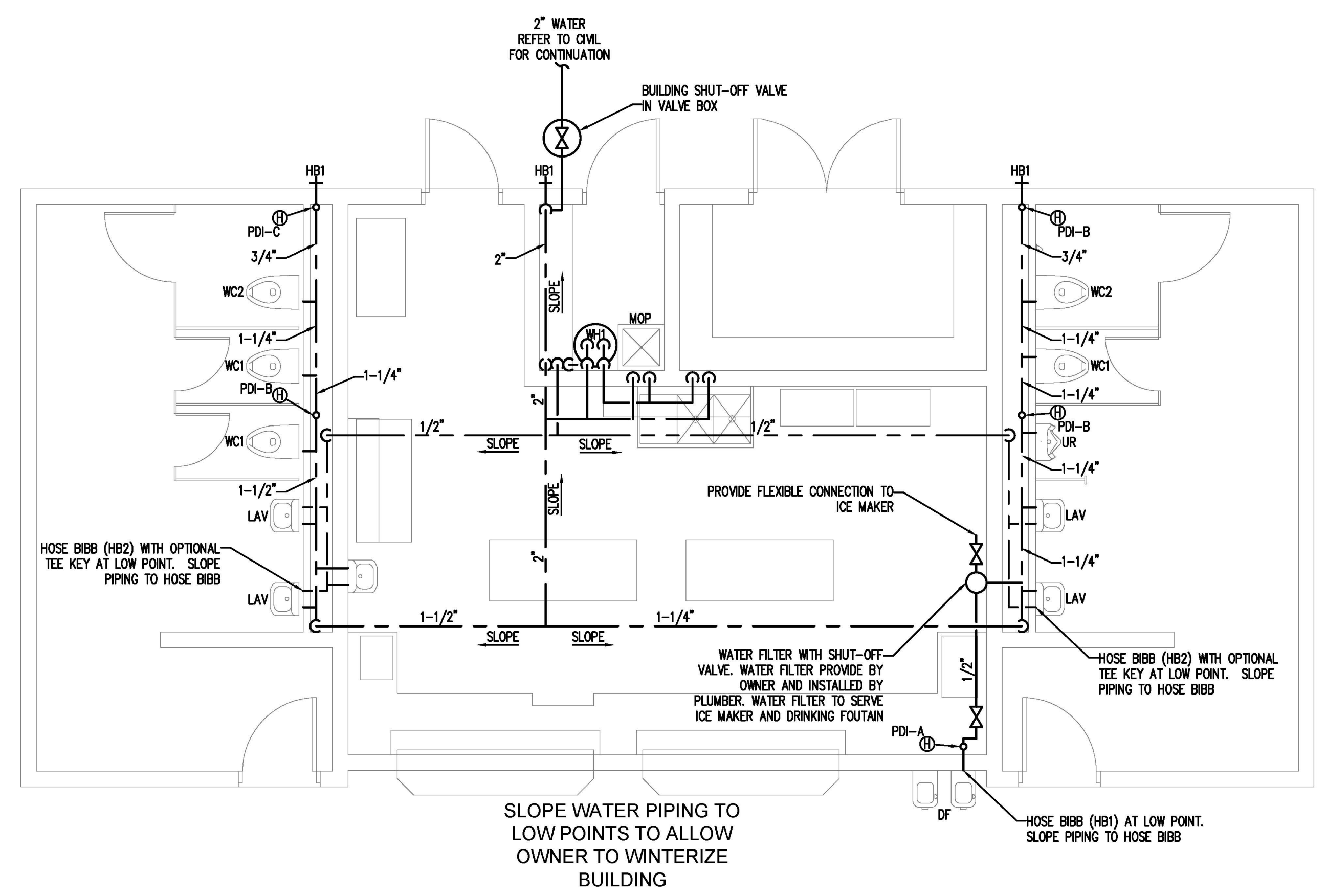


1 CONNESSION BUILDING PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"

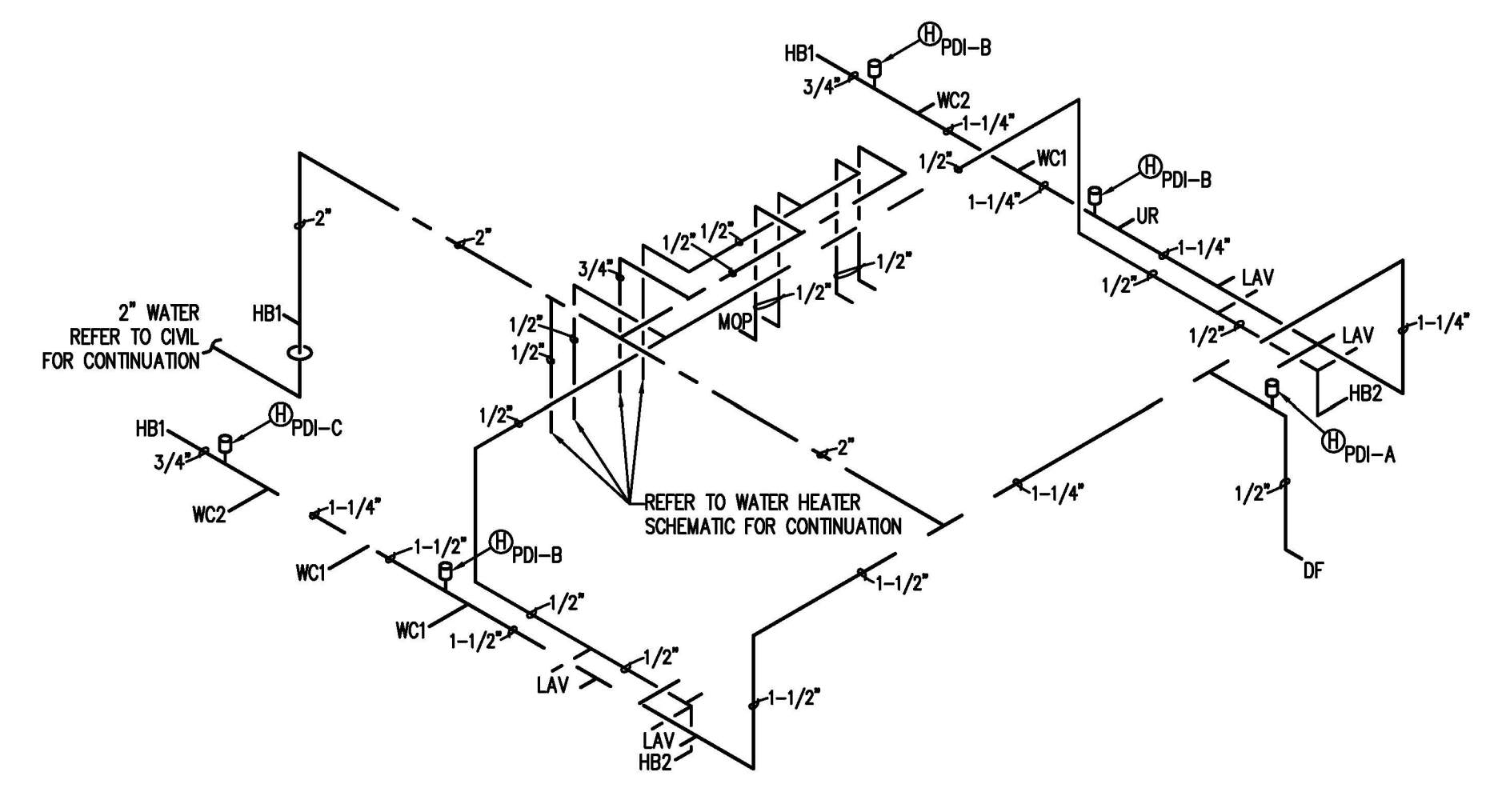
GENERAL NOTES:
PLUMBER IS TO FURNISH AND INSTALL ALL NECESSARY VALVES, TRAPS, TAIL PIECES, LINE STRAINERS, WATER PRESSURE REDUCING VALVES AND VACUUM BREAKERS AND CONNECT ALL WATER, WASTE, AND VENT LINES TO CONCESSION STAND EQUIPMENT. CONNECT TO CONCESSION STAND EQUIPMENT THROUGH INDIVIDUAL WATER FILTERS WHEN REQUIRED BY EQUIPMENT MANUFACTURER. USE FLEXIBLE STAINLESS STEEL LINES WITH QUICK DISCONNECT CONNECTIONS. VERIFY WITH EQUIPMENT SUPPLIER EXACT LOCATION OF EQUIPMENT AND PLUMBING ROUGH IN SIZES, LOCATIONS, AND REQUIREMENTS.



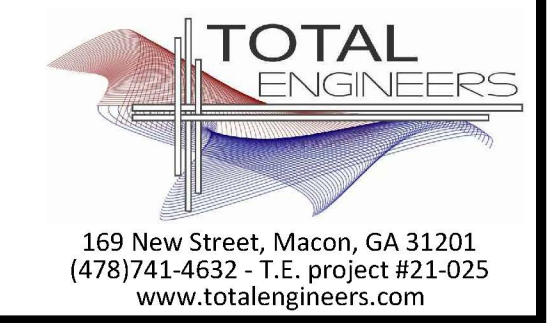
2 CONCESSION SEWER RISER
SCALE: N.T.S.



3 CONNESSION BUILDING PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



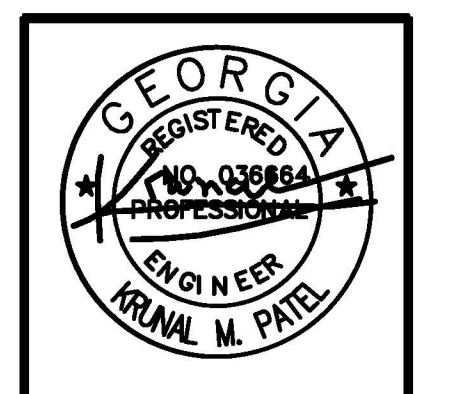
4 CONCESSION WATER RISER
SCALE: N.T.S.



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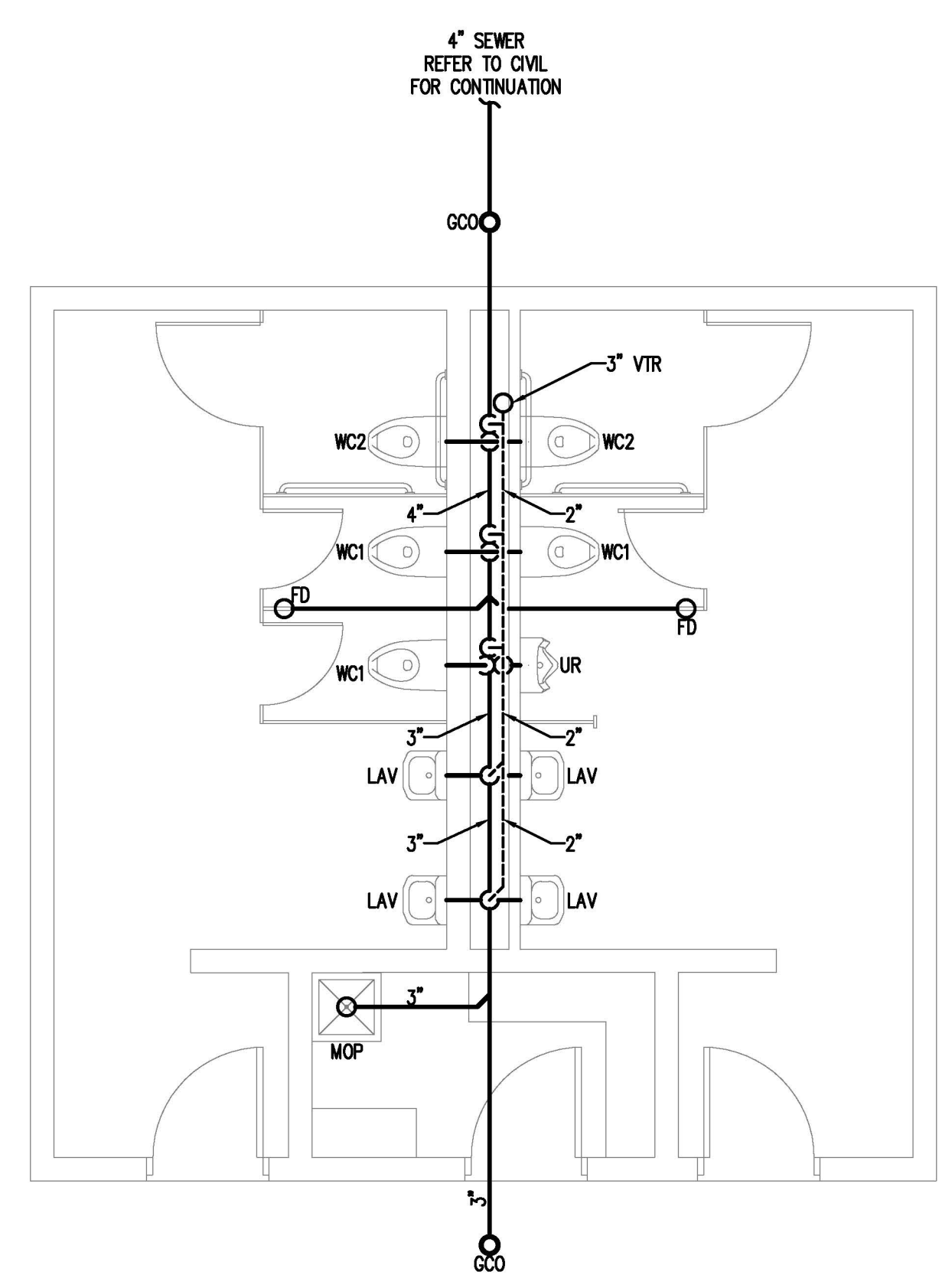
Drawing Number
P3
DATE 04/07/21

Widner & Associates, Inc.
P.O. BOX 838, MACON, GEORGIA 31202
PH: (478) 748-8000 FAX: (478) 748-8001
WWW.WIDNER-ASSOCIATES.COM

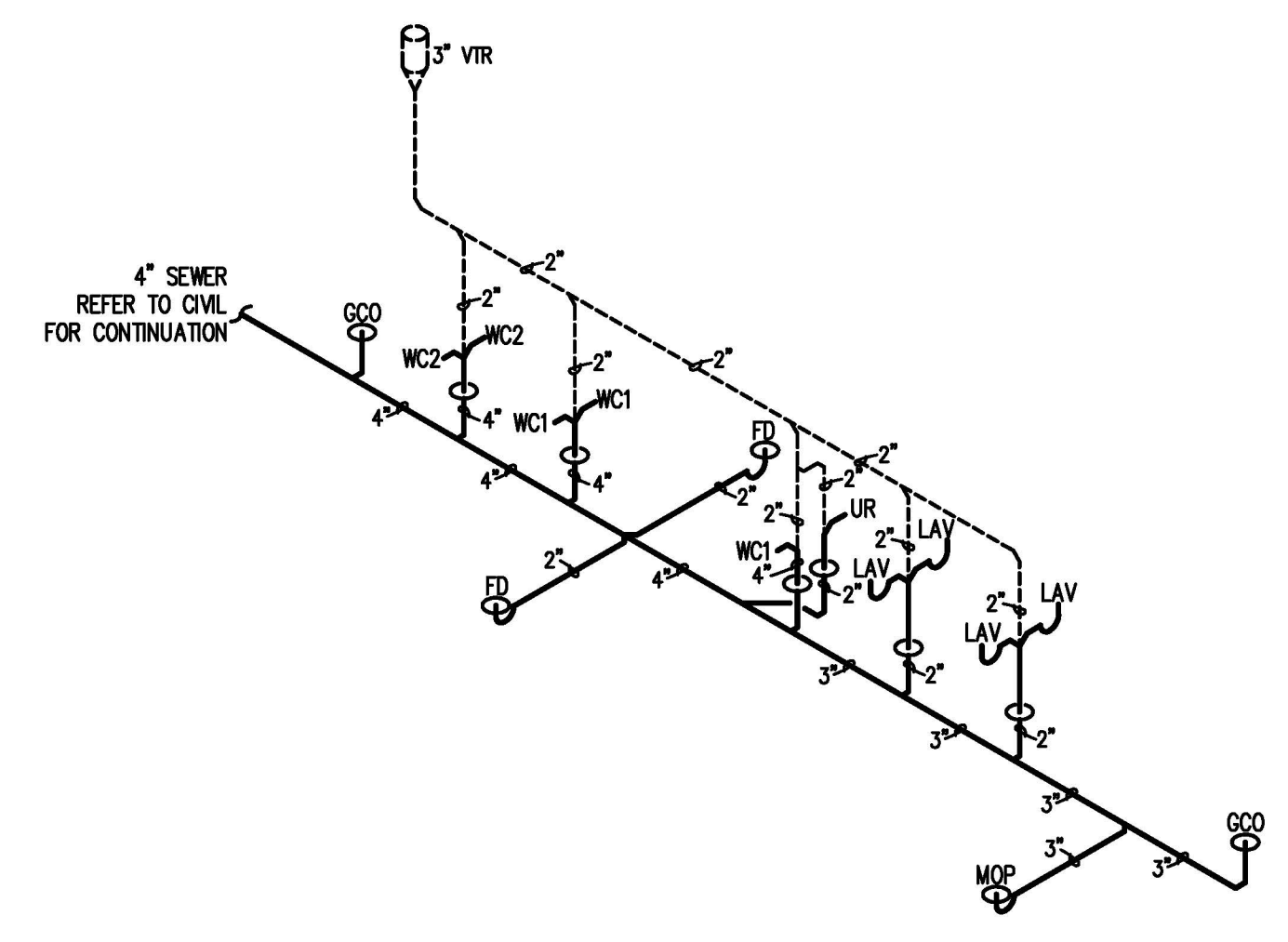


BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
MACON, GEORGIA

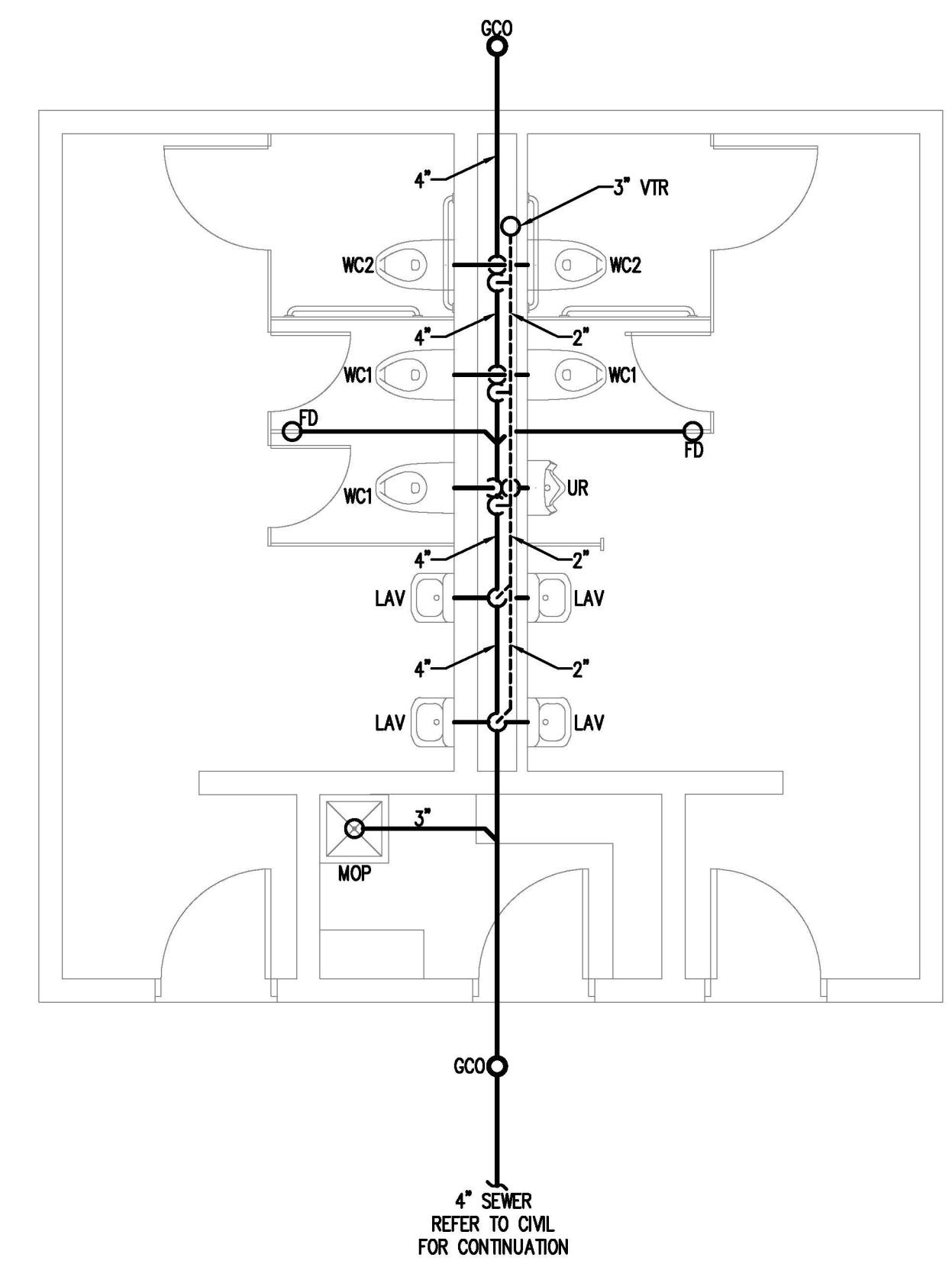
PROJECT NUMBER 20-119
P3
DATE 04/16/21



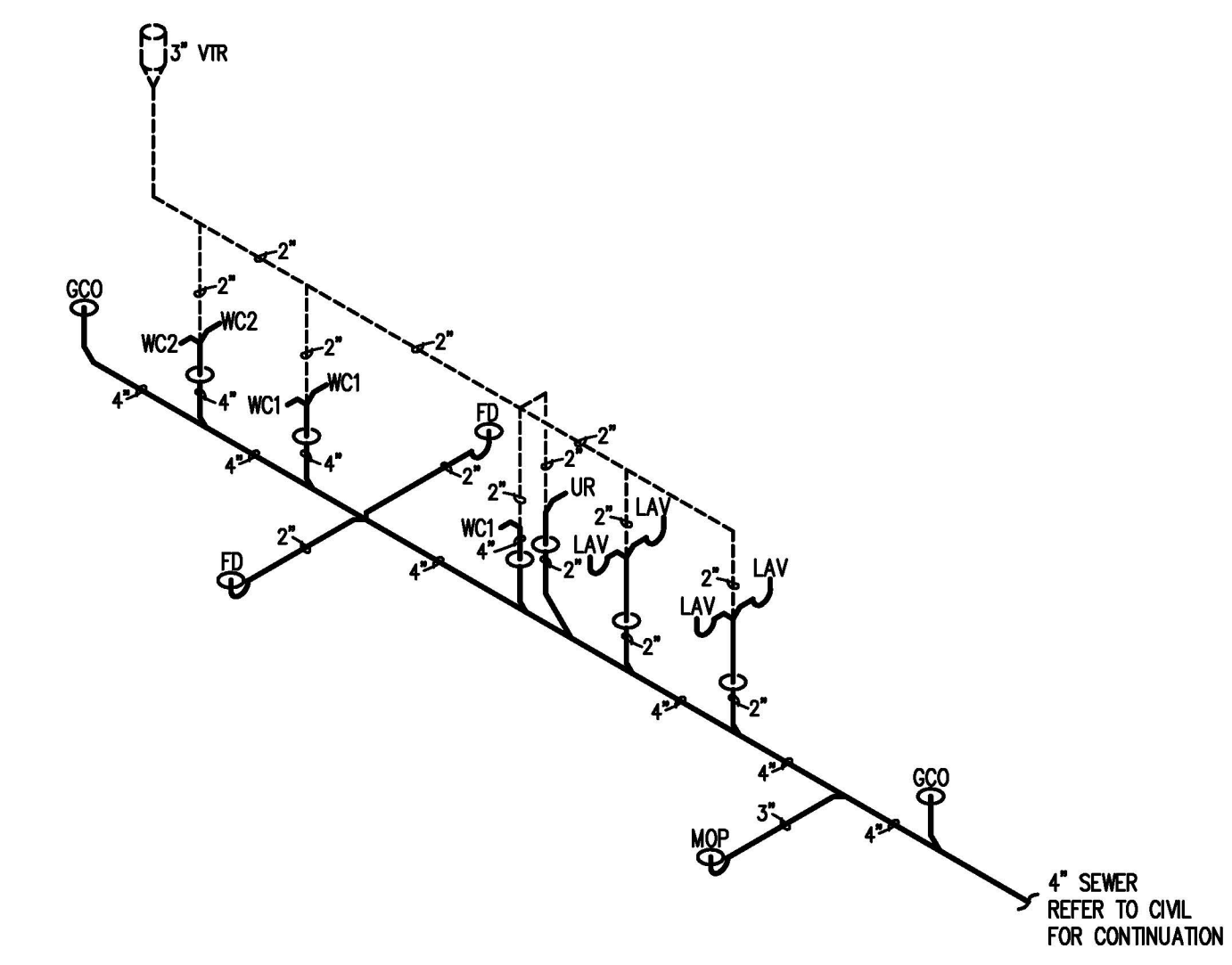
1 NORTH RESTROOM BUILDING PLUMBING PLAN - SEWER
SCALE: 1/4"=1'-0"



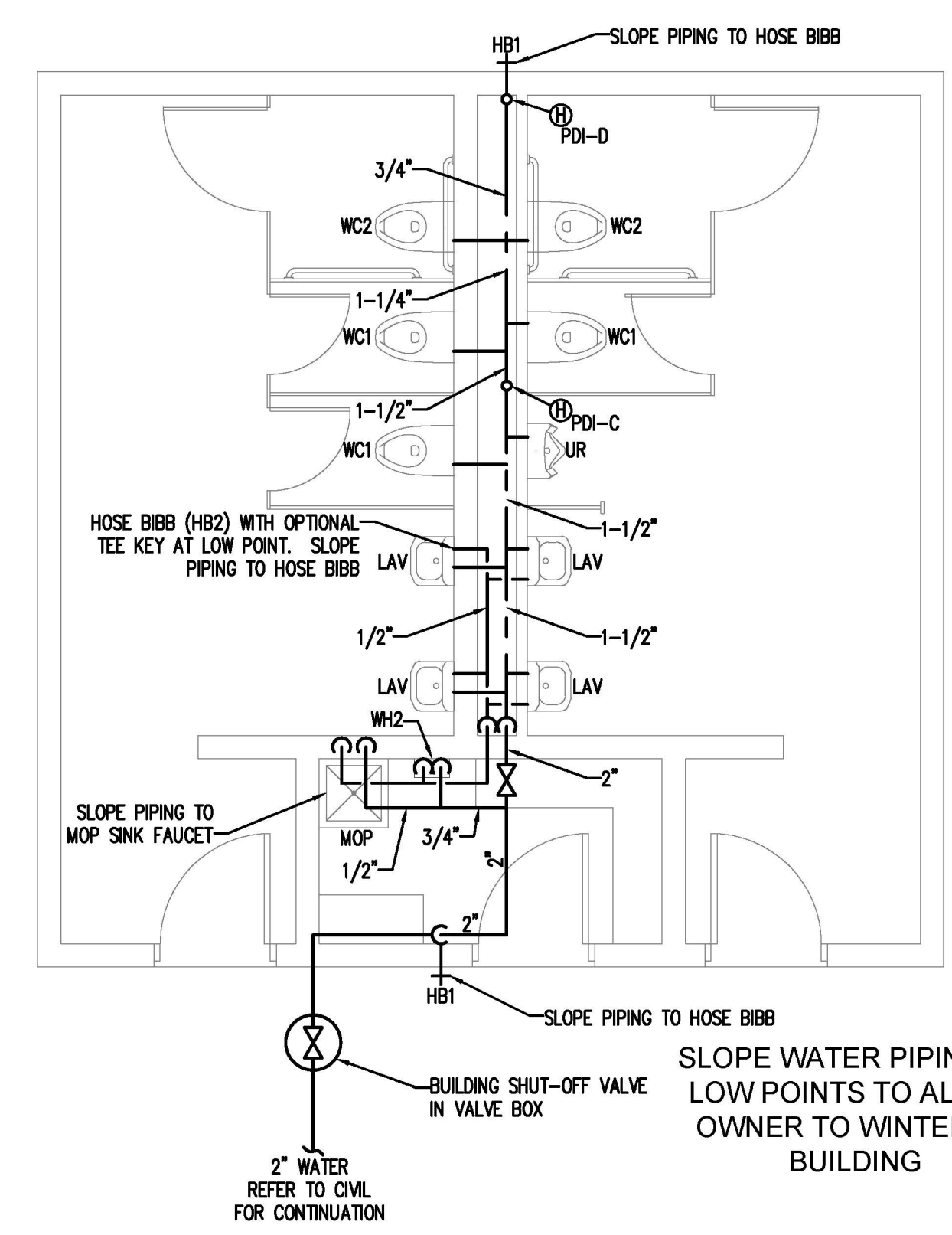
2 NORTH RESTROOM SEWER RISER
SCALE: N.T.S.



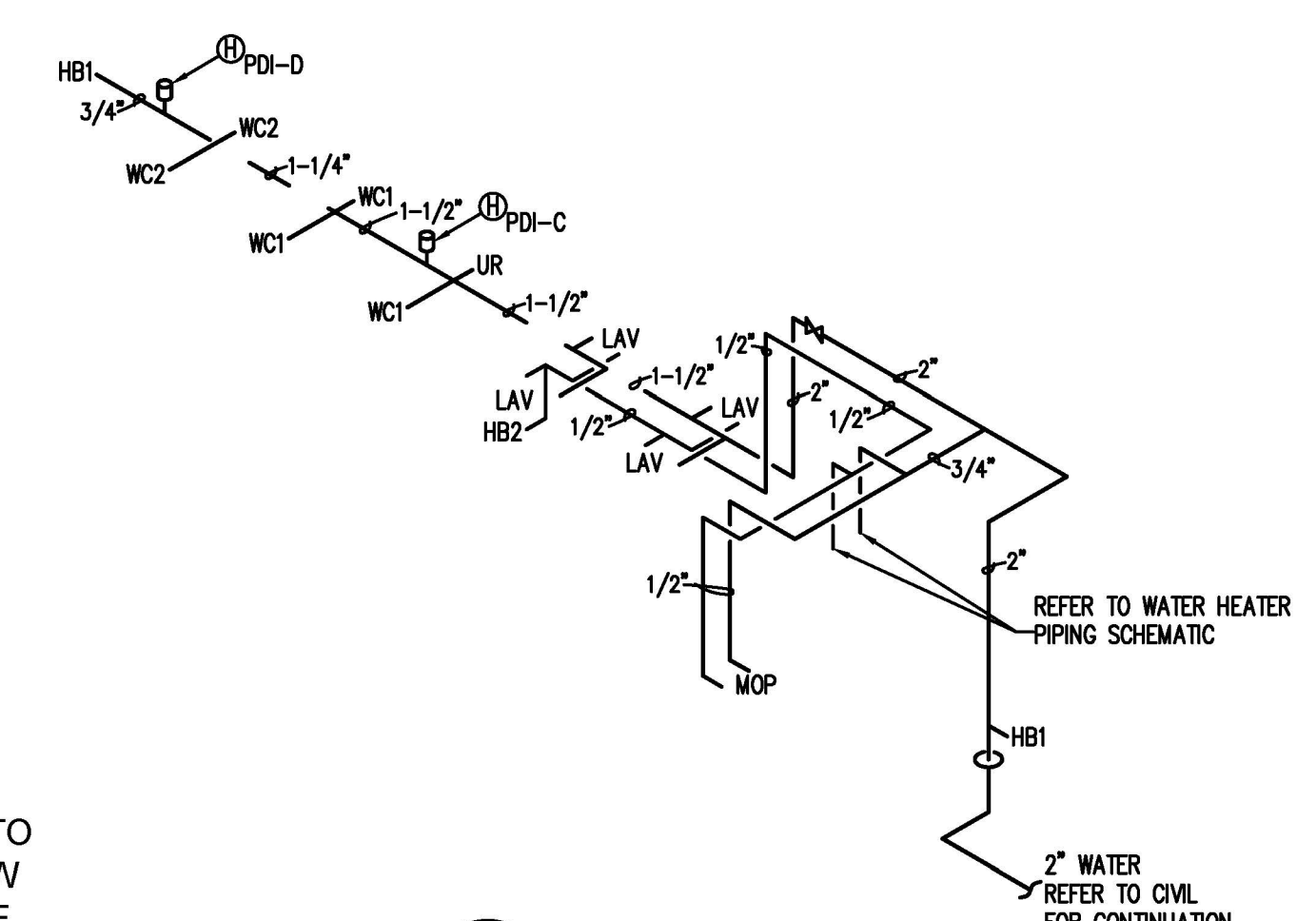
3 SOUTH RESTROOM BUILDING PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



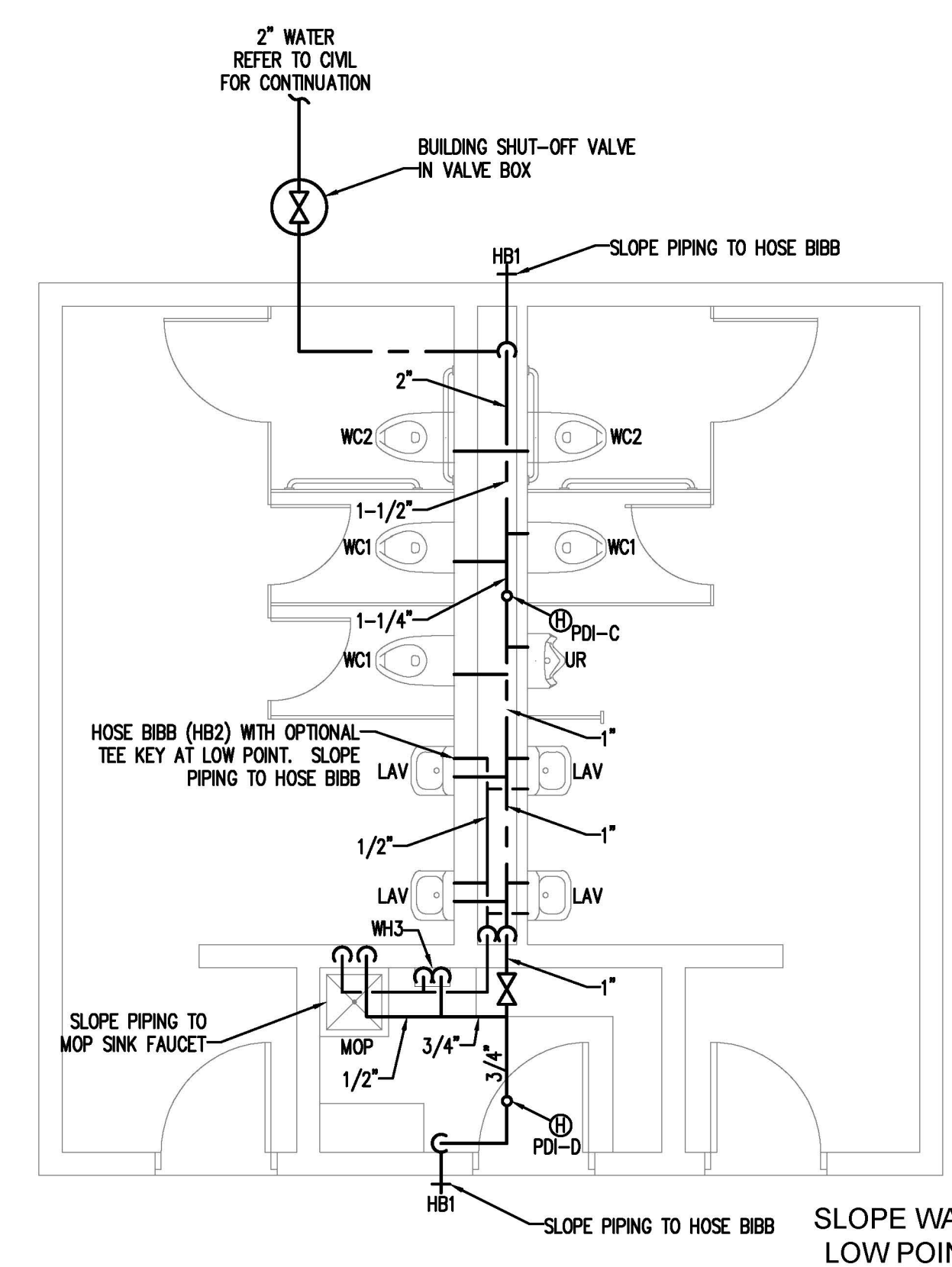
4 SOUTH RESTROOM SEWER RISER
SCALE: N.T.S.



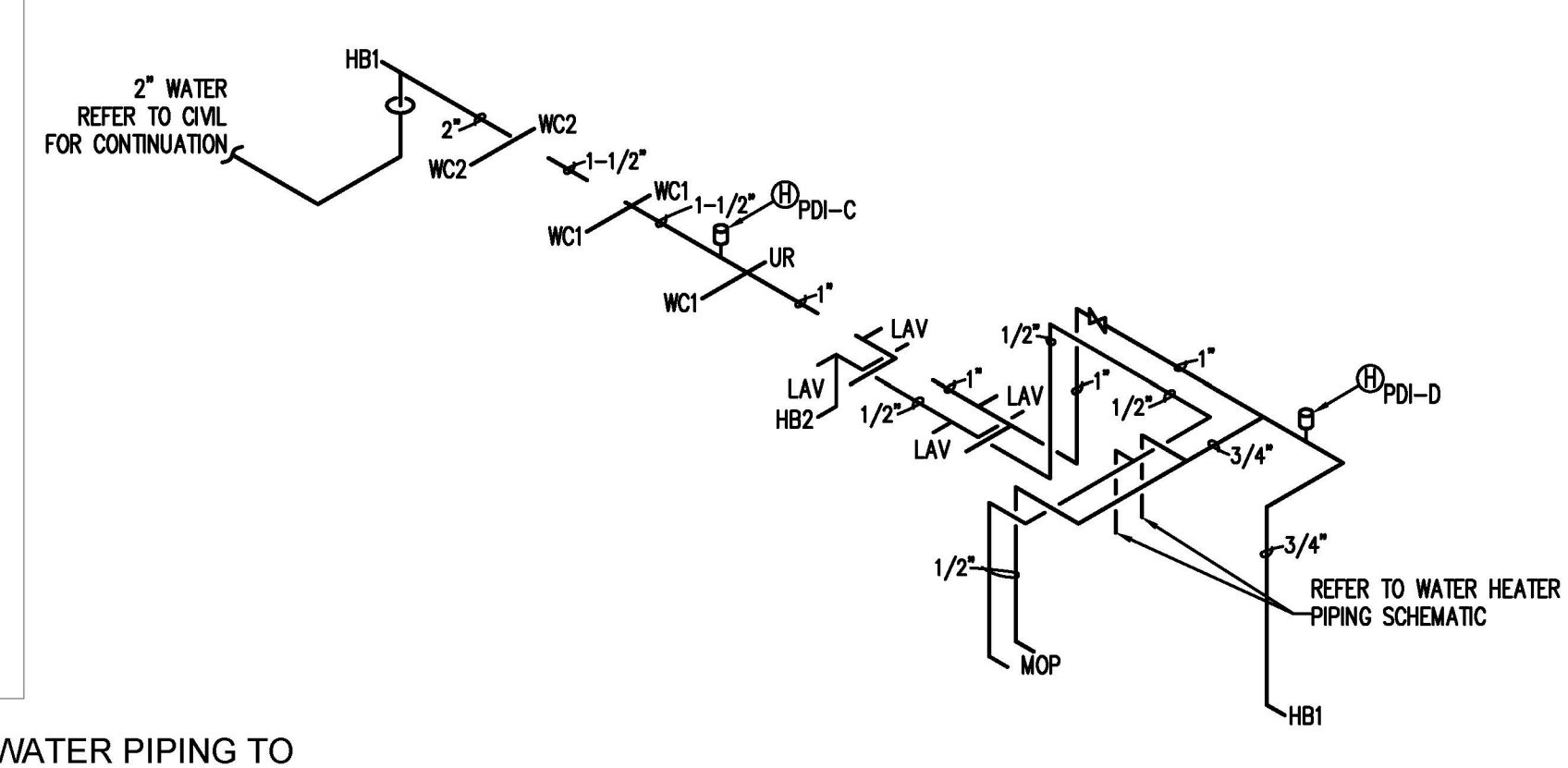
5 NORTH RESTROOM BUILDING PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



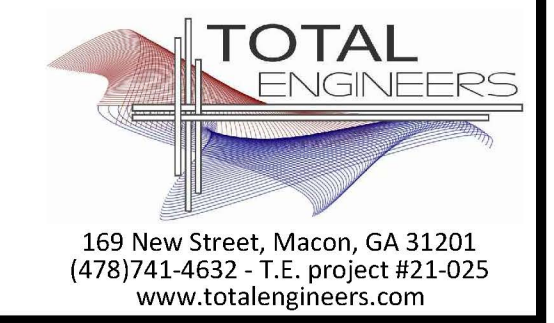
6 NORTH RESTROOM WATER RISER
SCALE: N.T.S.



7 SOUTH RESTROOM BUILDING PLUMBING PLAN - WATER
SCALE: 1/4"=1'-0"



8 SOUTH RESTROOM WATER RISER
SCALE: N.T.S.



MECHANICAL SPECIFICATIONS

- 1) Provide all heating, ventilation and air conditioning items indicated on the drawings, described in this specification or required for a complete and proper installation.
- 2) Comply with all pertinent codes, ordinances and regulations. Refer to website for Dept. of Community Affairs at <http://www.dca.state.ga.us/development/constructioncodes/programs/codes2.asp> for current Codes Editions.
- 3) The contractor shall not attempt to precisely scale dimensions from these drawings to obtain construction dimensions and clearances. The contractor shall verify all actual dimensions and clearances. Although these plans are diagrammatic in nature, they shall be followed as closely as site conditions, new construction, and work by other trades shall permit. Deviations from these drawings, which are required to conform to the available space or the actual building construction, shall be made at no additional cost to the owner.
- 4) Furnish without extra charge, any additional material and labor required to comply with the above codes and standards, even though the work may not be described in the contract documents. Where the requirements of the contract documents exceed the requirements of the above codes and standards, the contract documents shall take precedence.
- 5) All equipment and material shall be new and of first quality. Equipment and material shall be the same or equal to the basis of design listed on these drawings and shall be UL listed.
- 6) Cooperate and coordinate with other trades in order that all systems in the work may be installed in the best arrangement.
- 7) Examine the areas and conditions under which work of this section will be installed. Correct conditions detrimental to the proper and timely completion of the work. Notify Architect of any discrepancies. Do not proceed until unsatisfactory conditions have been corrected.
- 8) Avoid interference with structure, and with work of other trades. Install all equipment per manufacturer's instructions. Install accessible parts, including equipment, coils, valves, dampers, controls, and filters with adequate clearance for inspection, adjustments, repair and replacement.
- 9) All other materials not specifically described but required for a complete and proper installation shall be as selected by the contractor subject to acceptance by the Engineer.
- 10) All ductwork shall be fabricated from galvanized sheet metal duct and conform to SMACNA "HVAC Duct Construction Standards—Metal and Flexible". Seal all joints in ductwork with mastic sealant.
- 11) Thermostats: Provide 24 volt, programmable 24 hour, 7 day thermostat to control heating stages in sequence with delay between stages and supply fan to maintain temperature setting. For Heat Pumps include system selection switch heat-off-cool and fan control switch (auto-on), emergency heat switch (auxiliary/emergency heat indicator lights).
- 12) Provide fire and smoke rated flexible connections between fans and ducts. Material shall comply with NFPA 90A requirements for material in supply air stream.
- 13) Install all equipment in accordance with manufacturer's instructions and recommendations including clearances recommended for proper operation or service. All filters and serviceable parts shall be readily accessible.
- 14) Make all duct elbows right angle type with single -thickness turning vanes or construct with centerline radius 1-1/2 times the duct width.
- 15) Duct sizes shown on plans are clear, interior dimensions.
- 16) Do not cut into or reduce the size of any structural member without the permission of the Architect.
- 17) Provide weather-proof flashing at all duct and pipe penetrations through the building walls and roof. As a minimum, flashings shall be designed and installed in accordance with SMACNA standards. Flashings shall be guaranteed weatherproof.
- 18) Support all HVAC units, ductwork, piping and other appurtenances from structure, provide vibration isolation at all fans which are not internally isolated. Provide hanger rod with built in rubber-in-shear isolator. Between drain pan and unit provide 4 each rubber-in-shear isolator. Do not attach vibration isolator to drain pan. Do not screw or drive fasteners into non-structural components such as roof decks or non-load bearing walls.
- 19) Thoroughly clean all components and remove all dirt, scale, oil, and other foreign substances. Provide clean air filters for all equipment.
- 20) Perform all tests necessary to demonstrate the integrity of the complete installation to the approval of the Engineer and all other authorities having jurisdiction. Make all adjustments necessary and balance the completed system in accordance with the data shown. Balance the systems in accordance with NEBB or AABC standards. Acceptable tolerances shall be minus ten percent to plus five percent of all measurements. Balancing shall be done by an independent licensed (by NEBB or AABC) TAB contractor. Make the following tests and submit reports to the Architect:
 - a) Airflow rate at each exhaust outlet or inlet.
 - b) Total airflow rate and total static pressure for each exhaust fan. Test exhaust fans with room doors closed.
 - c) Motor speed, for multiple speed fans (e.g. high, medium, low).
 - d) For direct drive fans, provide speed settings and actual rpm, including ECM motor driven fans
 - e) Provide fan and motor rpm for belt driven fans. Provide sheave sizes.
 - f) Motor current (and compare with nameplate data) at all motors.
 - g) Heat output capacity for unit heaters, heating devices and coils (kW or MBH).
 - h) Manufacturer, model and serial number for each piece of HVAC equipment scheduled on drawings.
 - i) Calibrate thermostats to be within one degree of actual temperature at thermostat.
 - j) Verify that all HVAC devices operate as scheduled or indicated (i.e. ON-OFF, 2-stage, variable output (SCR heaters), etc.
- 21) The entire system shall be warranted for a period of one (1) year beginning with Owner's acceptance of the work. Compressors shall include a minimum of five (5) year parts only warranty from the manufacturer. All labor and materials necessary to repair or replace the system or portions thereof, during that time shall be warranted for a period of one (1) year from the repair or replacement.
- 22) SUBMITTALS AND SUBMITTAL PROCEDURES:
 - a. Contractor shall review the submittal data and check for the purpose of compliance with safety requirements, verification of dimensions, contract documents and methods and means prior to submitting to design professional. Contractor shall indicate approval by indicating such on the submittal.
 - b. Transmit each submittal electronically in PDF format.
 - c. Sequentially number submittal files and transmittal form. Revise submittals with original number and a sequential alphabetic suffix. File names shall describe item included in file.
 - d. Identify Project, the Contractor, Subcontractor or supplier, pertinent drawing and detail number, and specification section number, as appropriate on each copy. Each file shall include an index of items included in file.
 - e. Apply the Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.
 - f. Submittal data for all items in project shall be submitted at one time. Submittal shall be divided into groups with file sizes not exceeding 6 MB. If there is unavailable data such as control submittal, etc., these may be submitted later if not doing so would delay project progress. Data shall include capacities, complete installation instructions, dimensional data and electrical data, BHP, motor HP, operating weights and load distribution at mounting points.
 - g. Deliver submittals electronically to the Design Professional.
 - h. Schedule submittals to expedite the Project, and coordinate submission of related items.
 - i. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.
 - j. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.
 - k. Provide space for the Contractor and the Architect/ review stamps.
 - l. When revised for resubmission, identify all changes made since previous submission.
 - m. Distribute copies of reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.
 - n. Submittals not requested will not be recognized or processed.
 - o. Provide files containing only related items (such as piping, equipment, air distribution, etc.)
- 23) Instruct Owner's representative in the operation of the systems, using the operation and maintenance manual as a teaching aid.
- 24) Provide an operation and maintenance manual. As a minimum, the manual shall contain:
 - a. A complete list of all equipment and appurtenances with equipment designations (per Drawings), manufacturers, and catalog numbers.
 - b. Copies of manufacturers' brochures and instructions for operation and maintenance of all mechanical equipment, including replacement parts lists.
 - c. Typed system operation and maintenance instructions, including inspection, lubrication, and service instructions and schedules.
 - d. List of names, addresses and phone numbers of distributors of all equipment and appurtenances.
 - e. Manufacturers' warranties.
- 25) Basic motor requirements: basic requirements apply to mechanical equipment motors, unless otherwise indicated. Motors 1/2 hp and larger: Polyphase, unless otherwise scheduled. Motors smaller than 1/2 hp: single phase. Frequency rating: 60 Hz. Service factor: according to NEMA MG 1, general purpose continuous duty, design type "B". Enclosure: open drip-proof, unless otherwise indicated. Efficiency: motors shall have a higher efficiency rating than industry standard average motor as delineated in IEEE Standard 112, test method 13. Thermal protection: where indicated or required, internal protection automatically opens power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal protection device automatically resets when motor temperature returns to normal range, unless otherwise indicated.
- 26) Hangers and supports: Building attachments: concrete inserts or structural-steel fasteners appropriate for building materials, and beam clamps. Hanger materials: galvanized, sheet steel or round, threaded steel rod. Hangers installed in corrosive atmospheres: electrogalvanized, all-thread rod or galvanized rods with threads painted after installation. Straps and rod sizes: comply with SMACNA's "HVAC Duct Construction Standards—Metal and Flexible" for sheet steel width and thickness and for steel rod diameters. Duct attachments: sheet metal screws, blind rivets, or self-tapping metal screws; compatible with duct materials. Trapeze and riser supports galvanized steel shapes and plates: steel shapes complying with ASTM A 36/A 36M.
- 27) Sealant materials: joint and seam sealants, general: the term "sealant" is not limited to materials of adhesive or mastic nature but includes tapes and combinations of open-weave fabric strips and mastics. Joint and seam tape: 2 inches wide; glass-fiber fabric reinforced. Joint and seam sealant: one-part, nonsolvent, solvent-release-curing, polymerized butyl sealant, formulated with a minimum of 75 percent solids. Flanged joint mastics: one-part, acid-curing, silicone, elastomeric joint sealants, complying with ASTM C 920, type S, grade NS, class 25, use 0.
- 28) Gravity Ventilators: Heavy gauge arched sheet aluminum with interlocking seams or spun aluminum with base for curb mounting. Provide matching pre-fabricated roof curb and bird screen. Provide normally closed gravity backdraft damper.
- 29) All HVAC equipment such as AH, CU, EF, AC, HP, and RTU shall have visible nameplates with their associated marks on them.

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- 30) Ceiling Ventilator shall have corrosion resistant galvanized steel housing with four-point mounting capability. It shall be ducted to a cap on wall or roof using round ductwork. Blower assembly shall be removable, have a centrifugal-type blower wheel and a permanently lubricated motor designed for continuous operation. Non-metallic damper/duct connector shall be included. Air delivery shall be no less than scheduled and sound level no greater than 0.3 sones. All air and sound ratings shall be certified by HVI. Ceiling ventilator shall be Energy Star® qualified and have an energy efficient permanent split capacitor motor.
- 31) Electric Ceiling Heater: Heater shall be UL listed and labelled with terminal box and cover, and built-in controls. Heater shall be made in three pieces consisting of back enclosure, heater assembly and front panel. Ceiling panel shall be attached with concealed fasteners. Heating Elements: Nickel-chromium heating element wire shall be encased in a steel or copper sheath. Aluminum fins shall be pressure bonded to the sheath. Enclosure: Enclosure shall be minimum 20-gauge painted steel for surface mounting. Ceiling Panel: Stamped steel return grilles and supply register. Supply register shall provide adjustable blades to provide narrow pattern dispersion for 14 foot mounting height. Unit shall be fan forced type including fan motor, fan and controls with thermostat adjustment accessible through front grille. Unit shall also include thermal safety cutouts in the event of over temperature conditions. Refer to Schedule on Drawings for additional specifications.
- 32) Electric Wall Mount Heater: Heater shall be UL listed and labelled with terminal box and cover, and built-in controls. Heater shall be made in three pieces consisting of back enclosure, heater assembly and front panel. Front panel shall be attached with concealed fasteners. Heating Elements: Nickel-chromium heating element wire shall be encased in a steel or copper sheath. Aluminum fins shall be pressure bonded to the sheath. Enclosure: Enclosure shall be minimum 20-gauge painted steel for surface mounting. Front Panel: Bar grille type with down deflection toward floor. Finish shall be paint on steel bars. Grille shall be surrounded by decorative satin finished aluminum accent frame. Unit shall be fan forced type including fan motor, fan and controls with thermostat adjustment accessible through front grille. Unit shall also include thermal safety cutouts in the event of over temperature conditions. Refer to Schedule on Drawings for additional specifications.
- 33) Acceptable Manufacturers are:

Fans:	Twin-City, Cook, Greenheck, PennBarry, Acme, American CoolAir, Captive Air
Electric Heaters:	Markel, Q-Mark, Roywell
Controls—provided with unit:	Provide thermostats by same manufacturer as equipment

Drawing Number
M1
DATE 04/07/21

Widner & Associates, Inc.
P.O. BOX 632, MACON, GEORGIA 31201
TEL: (478) 746-3000 FAX: (478) 746-3000
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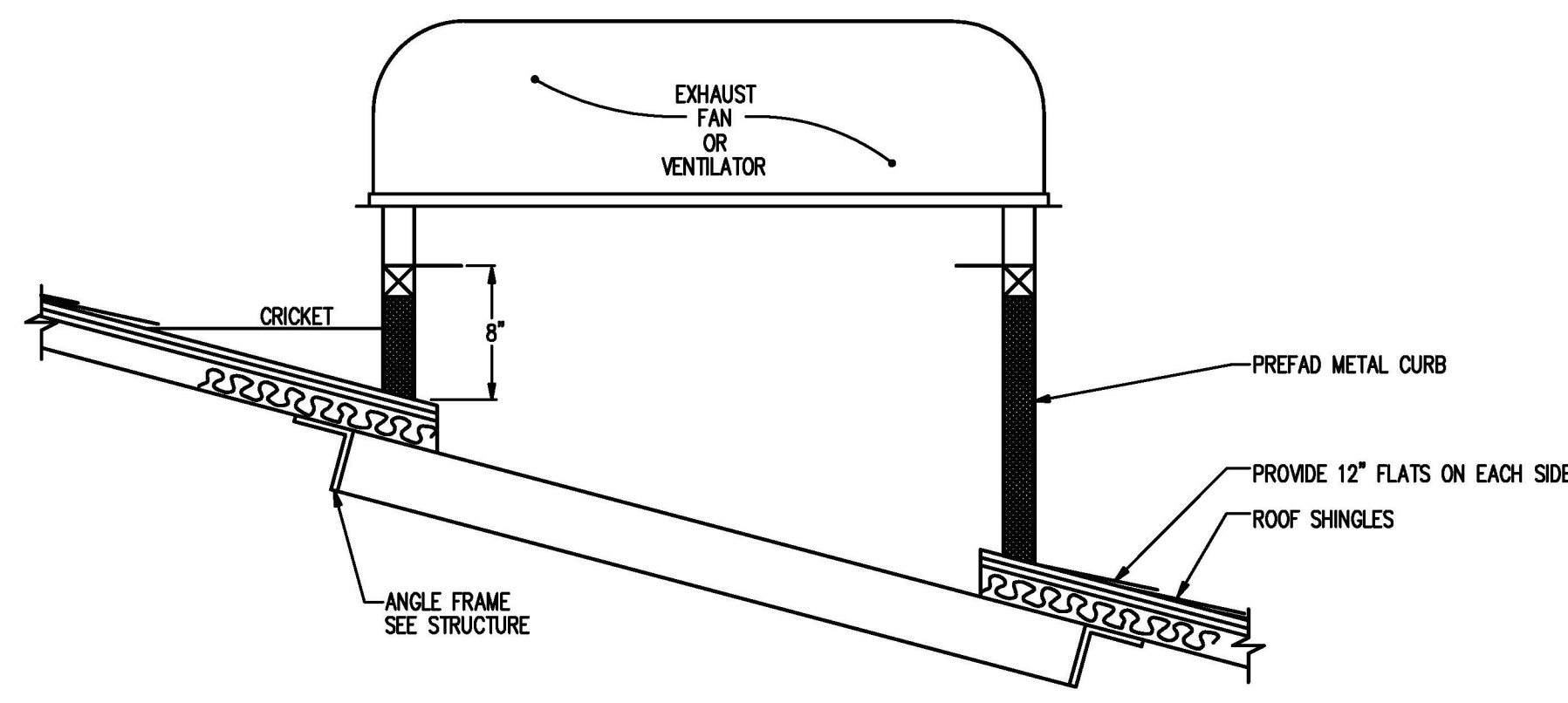
BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
MACON, GEORGIA

PROJECT NUMBER 20-119
M1
DATE 04/16/21

TOTAL ENGINEERS
169 New Street, Macon, GA 31201
(478) 741-4632 - T.E. project #21-025
www.totalengineers.com

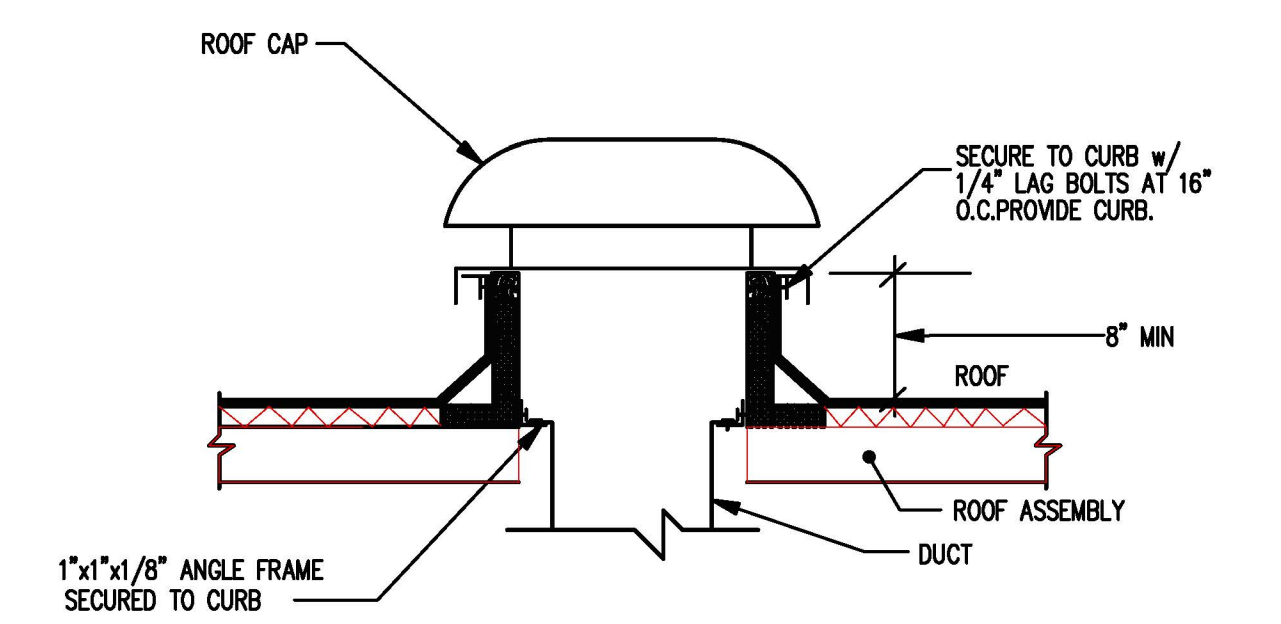
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Drawing Number
M2
DATE 04/07/21

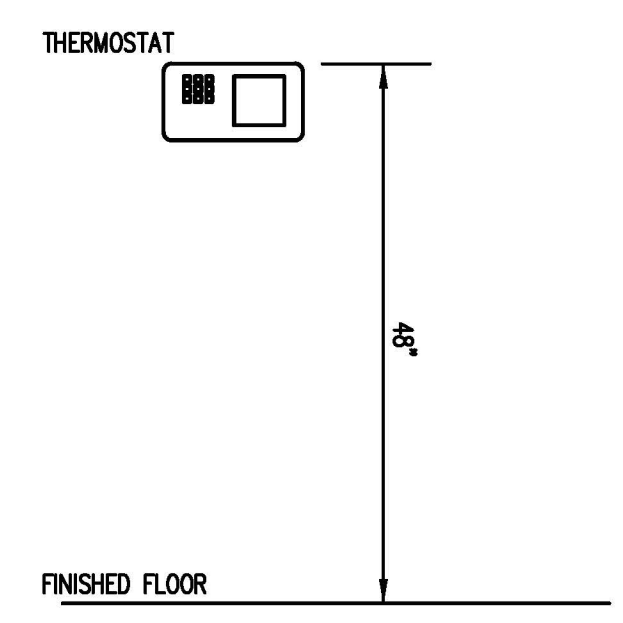


NOTE: REFER TO ARCHITECTURAL FOR ROOF SLOPES

1 FAN/VENTILATOR ON SLOPED ROOF DETAIL
SCALE: N.T.S.



2 ROOF CAP DETAIL
SCALE: N.T.S.



3 T-STAT DETAIL
SCALE: N.T.S.

MECHANICAL SYMBOLS & ABBREVIATIONS LEGEND	
	NEW PIPE, DUCTWORK OR EQUIPMENT
	DUCT SIZE: FIRST DIMENSION IS SIDE DRAWN
	FLEXIBLE ROUND DUCTWORK
	FIRE DAMPER, SMOKE DAMPER, SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER
	CEILING RETURN OR EXHAUST AIR
	S.A. DUCT OUT OF TU BOX WITH DUCT LINER FOR THE FIRST FIVE FEET OF DUCT OUT OF TU BOX
	SIDEWALL REGISTER OR GRILLE
	CHANGE IN PIPE OR DUCT SIZE OR SHAPE
	REFRIGERANT PIPING
	CONDENSATE OR OTHER DRAIN PIPING
	ELBOW TURNED DOWN OR TURNED UP IN PIPING
	THERMOSTAT, ARROW SHOWS CONTROL WIRING PATH
	TIME CLOCK
	DIAMETER
	U.C. UNDER-CUT DOOR 3/4", UNLESS OTHER SIZE NOTED
	INDICATES EQUIPMENT ON PLANS; TOP ITEM SHOWS TYPE OF EQUIPMENT AND BOTTOM ITEM SHOWS SPECIFIC MARK NUMBER
	ITEM IN HEXAGON SHOWS AIR DEVICE MARK NUMBER, ITEM ABOVE LINE SHOWS NECK SIZE, ITEM BELOW LINE SHOWS AIR FLOW THROUGH DEVICE, AND NUMBER IN FRONT SHOWS QUANTITY IF MORE THAN ONE
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	BYPASS DAMPER
	BTUH, MBH BRITISH THERMAL UNITS, THOUSAND BRITISH THERMAL UNITS
	CAP CAPACITY
	CFM CUBIC FEET PER MINUTE
	CLG CEILING
	CU CONDENSING UNIT
	DB, WB DRY BULB TEMPERATURE, WET BULB TEMPERATURE
	EA, EG EXHAUST AIR, EXHAUST GRILLE
	EF EXHAUST FAN
	EXT SP EXTERNAL STATIC PRESSURE (USUALLY EXPRESSED IN INCHES OF WATER IN GAGE)
	HP HEAT PUMP UNIT
	MVD, VD MANUAL VOLUME DAMPER
	OA OUTSIDE AIR
	RA, RG RETURN AIR, RETURN GRILLE
	RTU PACKAGED ROOFTOP UNIT
	SA SUPPLY AIR
	SF SUPPLY FAN FOR SHOP VENTILATION
	VAC, PH VOLTS ALTERNATING CURRENT, NUMBER OF PHASES
	W, KW WATTS, KILOWATTS
	UH UNIT HEATER
	AUDIBLE/VISUAL ALARM DEVICE CONNECTED TO DUCT SMOKE DETECTOR
	RADIUS ELBOW (R=1.5)

FAN SCHEDULE										
MARK	CFM	EXT. SP IN W.G.	DRIVE TYPE	MOTOR (HP/W)	MAX FAN (RPM)	MAX SONES	POWER/PHASE	BASIS OF DESIGN	SERVES	NOTES
EF-1	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	CONCESSION	1:2:3:4:7
EF-2	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-3	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-4	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-5	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-6	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-7	210	0.30	DIRECT	52.0 W	893	2.0	115/1	GREENHECK SP-A200	RESTROOM	1:2:3:4:5
EF-8	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	STORAGE	1:2:3:4:7:8
EF-9	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	JANITOR	1:2:3:4:6:8
EF-10	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	JANITOR	1:2:3:4:6:8
EF-11	70	0.25	DIRECT	20.0 W	690	1.3	115/1	GREENHECK SP-B90	JANITOR	1:2:3:4:6:8

- VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
- PROVIDE FACTORY SOLID STATE FAN SPEED CONTROLLER.
- DIRECT DRIVE CENTRIFUGAL CEILING FAN. PROVIDE FACTORY SUPPLIED DISCONNECT, BACK DRAFT DAMPER AND MOTOR WITH THERMAL OVERLOAD. FAN SHALL BE ENERGY STAR RATED.
- PROVIDE MANUFACTURER'S DESIGNER GRILLE.
- INTERLOCK FAN WITH LIGHTS SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON. ELECTRICAL TO PROVIDE 15 MINUTE TIME DELAY.
- FAN SHALL BE CONTROLLED BY A SWITCH LOCATED IN ROOM IT SERVES.
- FAN SHALL BE CONTROLLED BY LINE VOLTAGE THERMOSTAT. THERMOSTAT SHALL BE PROVIDED AND INSTALLED BY MECHANICAL.
- PROVIDE MANUFACTURER'S FIRE RADIATION DAMPER.

ELECTRIC CABINET HEATER SCHEDULE				
MARK	HEATER KW	VOLTS/PH	BASIS OF DESIGN	NOTES
EMH-1	4.0	208/1	Q-MARK AMH4408	1:2:3
EMH-2	1.5	120/1	BROAN 174	1:2:3
EMH-3	1.5	120/1	BROAN 174	1:2:3
EMH-4	1.5	120/1	BROAN 174	1:2:3

- MOUNT UNIT HEATERS AT 6" AFF.
- VERTICAL WALL MOUNTED EXPOSED HEATER.
- VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.

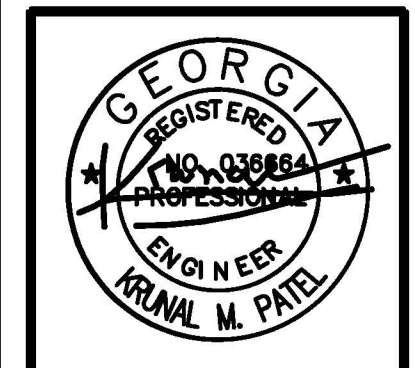
ELECTRIC CEILING HEATER SCHEDULE					
EQUIPMENT NO.	VOLTS/PHASE	AIR FLOW (CFM)	TOTAL WATTS	MANUFACTURER & MODEL	NOTES
CLH-1	208/1	300	5000	Q-MARK CDF-558 W/CFE-SE	1:2:3
CLH-2	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3
CLH-3	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3
CLH-4	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3
CLH-5	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3
CLH-6	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3
CLH-7	208/1	300	4000	Q-MARK CDF-548 W/CFE-SE	1:2:3

- PROVIDE SURFACE MOUNTING ENCLOSURE.
- PROVIDE WALL MOUNTED THERMOSTAT, TRANSFORMERS AND RELAYS TO CONTROL HEATERS.
- VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.

GRAVITY VENTILATOR SCHEDULE						
MARK	SERVICE	THROAT AREA SF	INTAKE AREA SF	MAX CFM	GREENHECK MODEL	NOTES
GV-1	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-2	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-3	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-4	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-5	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-6	EXHAUST	0.37	----	210	GRSR 8	1:2
GV-7	EXHAUST	0.37	----	210	GRSR 8	1:2

- SPUN ALUMINUM GRAVITY VENTILATOR.
- PANT TO MATCH ROOF COLOR.

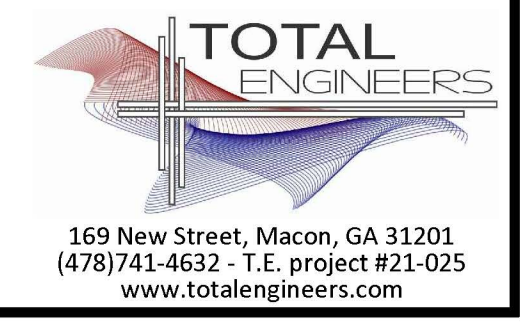
Widner & Associates, Inc.
P.O. BOX 332, MACON, GEORGIA 31202
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BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
MACON, GEORGIA

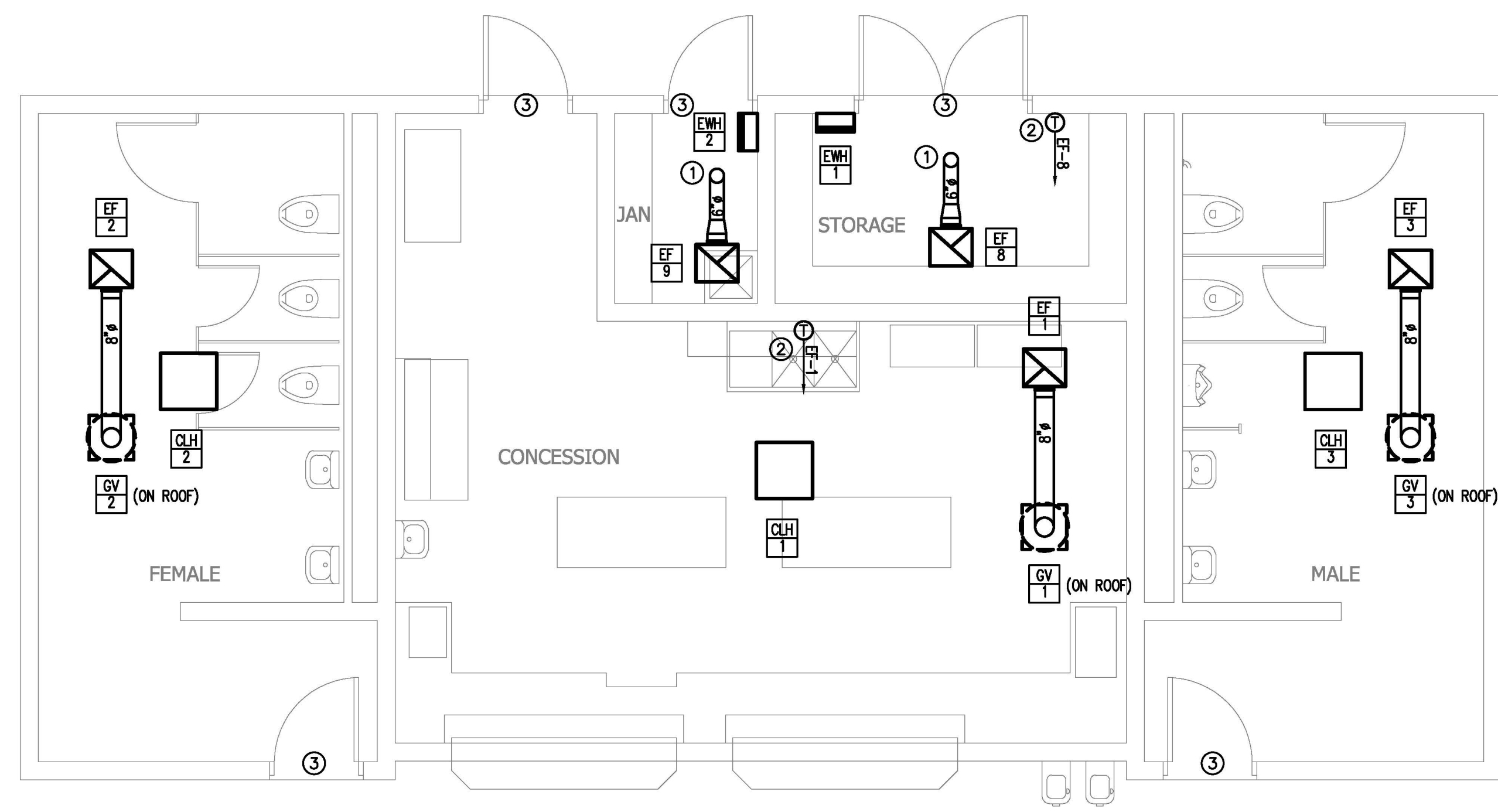
PROJECT NUMBER 20-119

M2
DATE 04/16/21

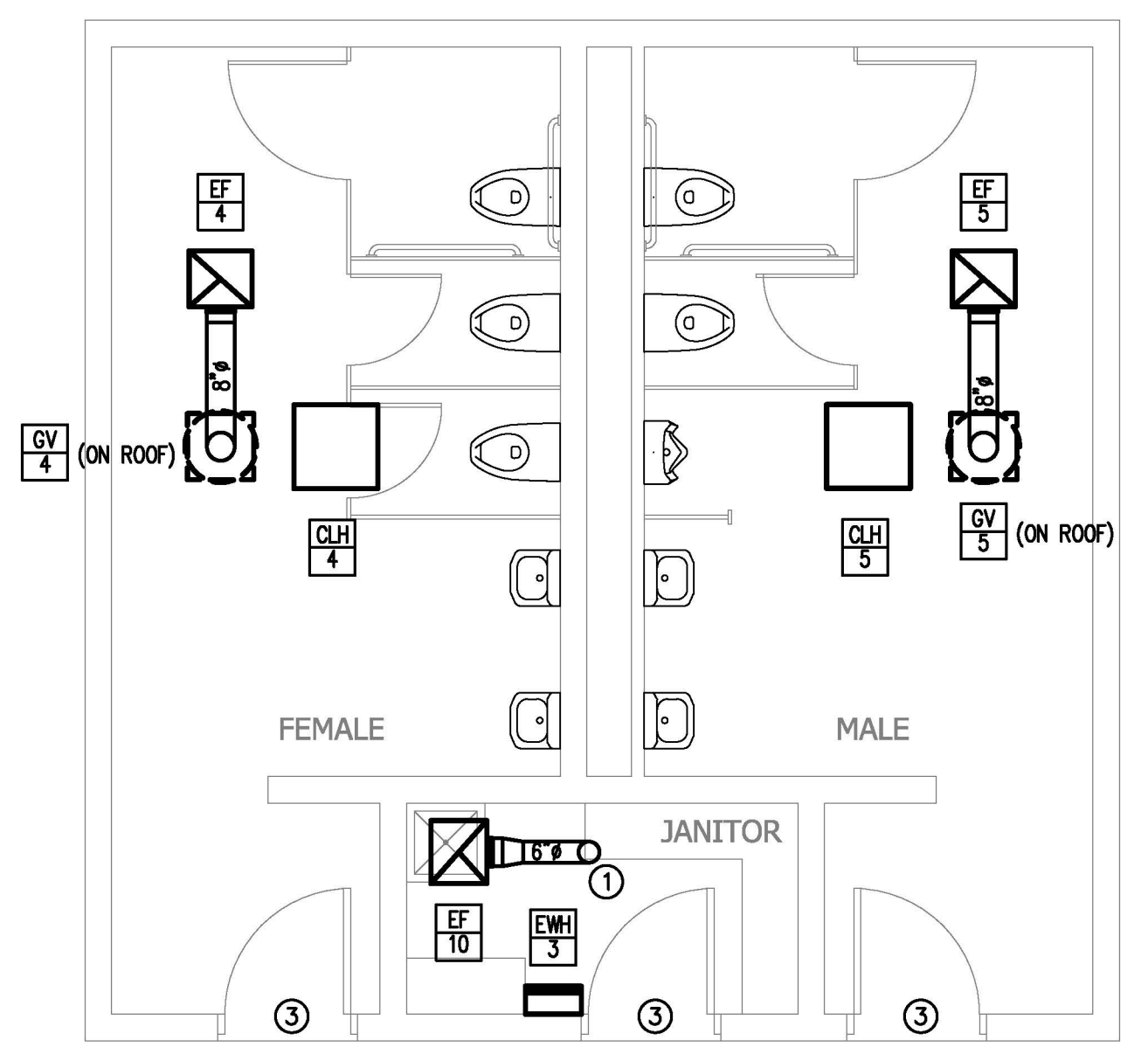


NOTICE: This document is subject to all requirements of the General Conditions of the Contract for Construction, AIA Document 201, August 1976 edition.

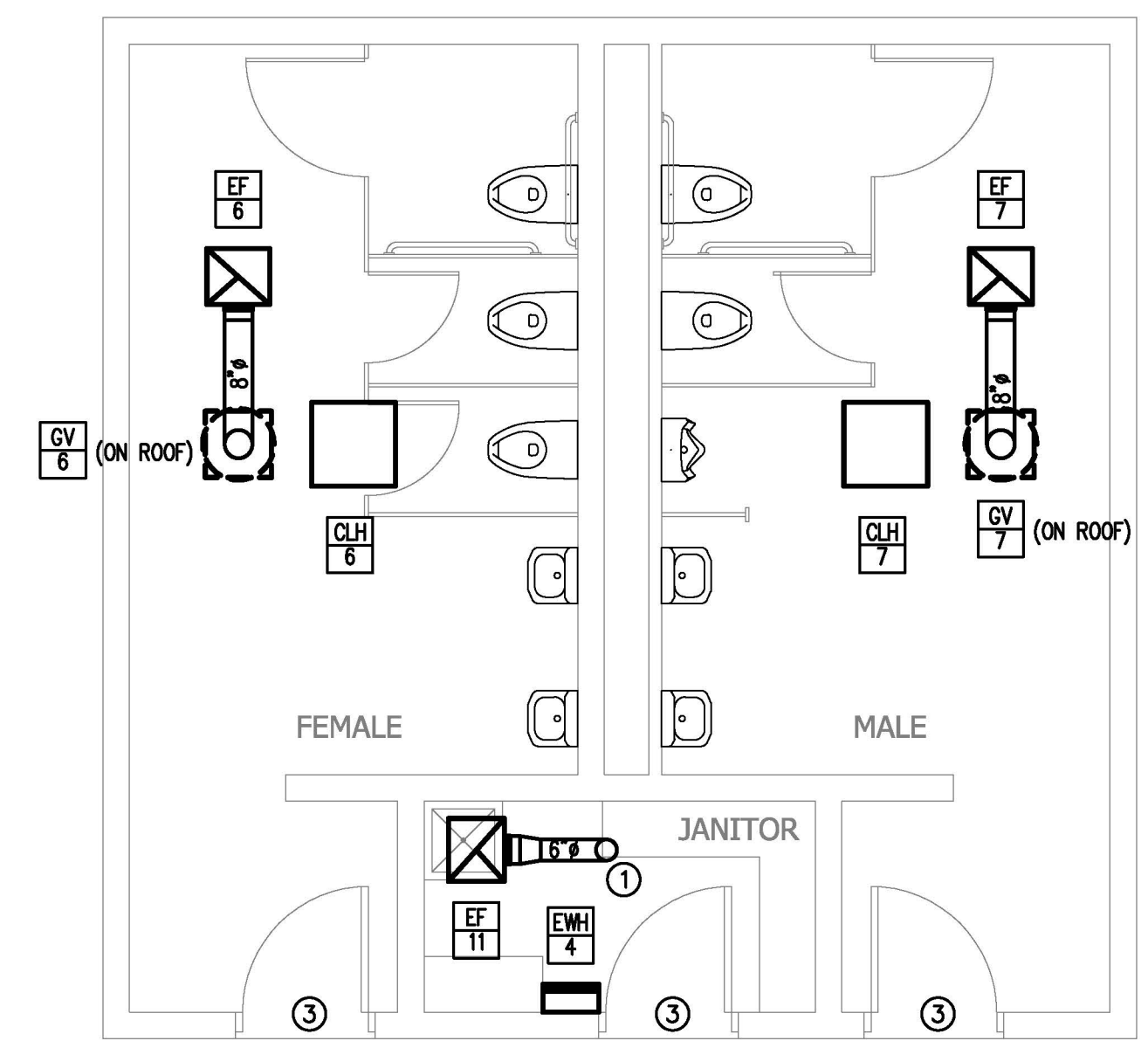
Drawing Number
M3
DATE 04/07/21



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



2 NORTH RESTROOM BUILDING MECHANICAL PLAN
SCALE: 1/4"=1'-0"



3 SOUTH RESTROOM BUILDING MECHANICAL PLAN
SCALE: 1/4"=1'-0"

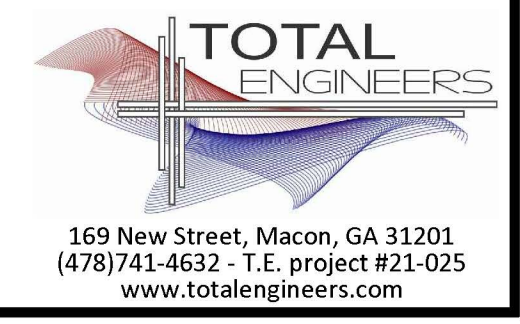
KEY NOTES (THIS SHEET ONLY):

- ① 6" EXHAUST UP TO ROOF CAP.
- ② TOP OF THERMOSTAT SHALL BE AT 48" AFF.
- ③ DOOR WITH GRILLE. REFER TO ARCHITECTURE.

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BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
MACON, GEORGIA



PROJECT NUMBER 20-119
M3
DATE 04/16/21

GENERAL NOTES:

- A. SURVEY AND SITE INFORMATION PROVIDED BY OTHERS. VERIFY ALL CONDITIONS ON SITE AND WITH OFFICIAL SURVEYS AND OTHER TRADES.
- B. CALL UNDERGROUND UTILITY CENTER AND VERIFY ALL UNDERGROUND UTILITIES.
- C. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.
- D. COORDINATE WITH SERVING UTILITY COMPANIES FOR EXACT SERVICE LOCATIONS. CONTRACTOR SHALL PAY ALL ADDITIONAL COSTS TO PROVIDE SERVICES SHOWN.
- E. PROVIDE HAND-HOLES AS REQUIRED BY 2020 NEC FOR UNDERGROUND FEEDERS SHOWN.
- F. SPORTS LIGHTING AND SITE LIGHTING BY OTHERS.

KEYED NOTES: (THIS SHEET ONLY)

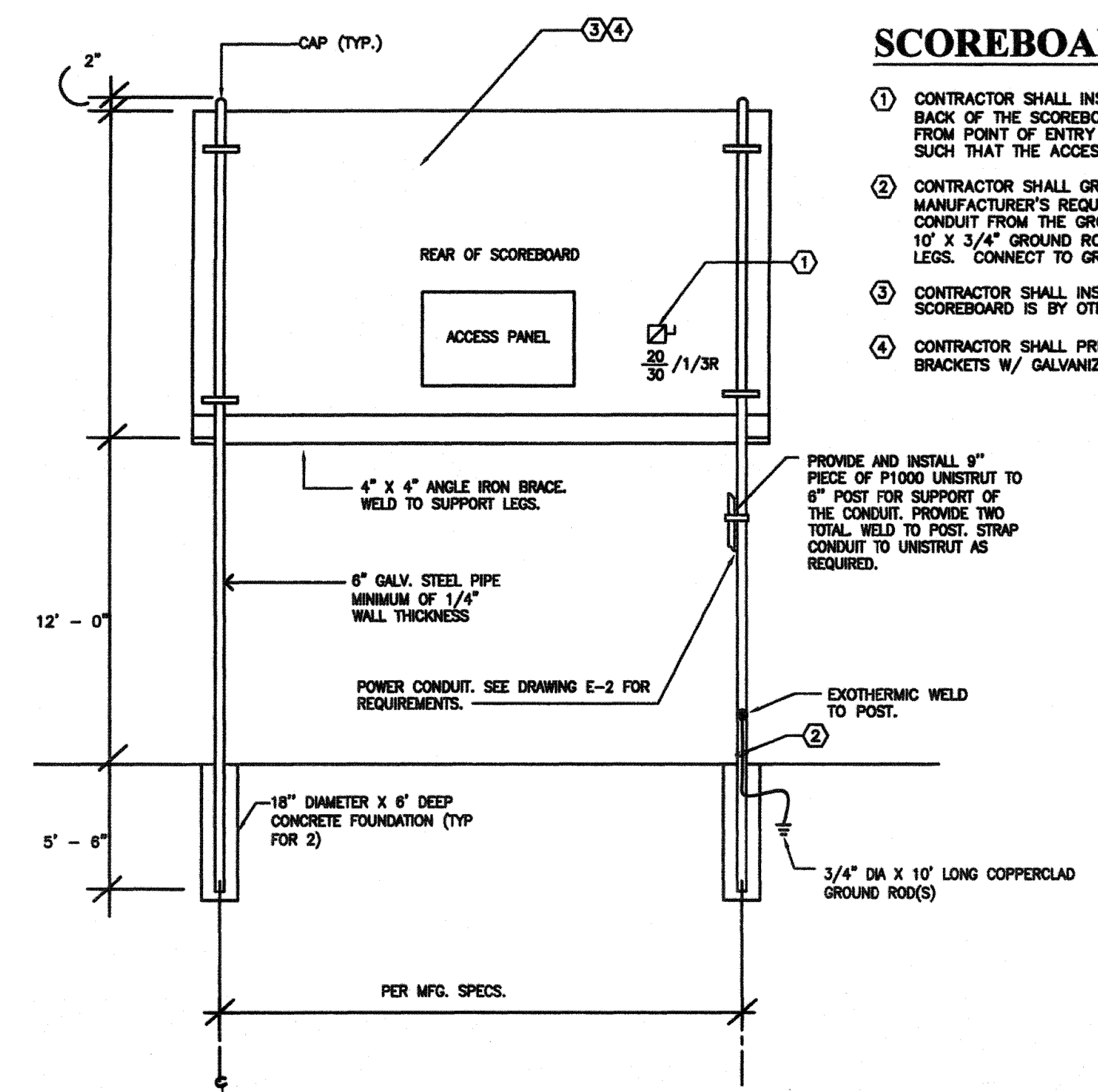
1. COORDINATE EXACT LOCATION OF POWER COMPANY TRANSFORMER WITH POWER COMPANY, ARCHITECT AND CIVIL ENGINEER.
2. SCOREBOARD, BY OTHERS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH SCOREBOARD MANUFACTURER PRIOR TO ROUGH-IN. DESIGN BASIS IS 208V/1PH/20A. COORDINATE EXACT LOCATION OF SCOREBOARD WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. SEE DETAIL 2/E.I.I.
3. (1) JUNCTION BOX FOR SCORE BOX POWER AND (1) JUNCTION BOX FOR SCOREBOARD CONTROLS. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN. PROVIDE QUAZITE PC STYLE JUNCTION BOX OR APPROVED EQUAL AS REQUIRED. SEE DETAIL 3/E.I.I.
4. 1" C TO FIELD SCORE BOX JUNCTION BOX FOR CONTROLS.
5. ROUTE SCOREBOARD BRANCH CIRCUIT VIA INGROUND JUNCTION BOX TO SWITCH IN SCORE BOX THEN ROUTE TO SWITCH LOCATED NEXT TO PANEL SERVING SCOREBOARD. SEE KEYED NOTE 7, FOR SWITCH LOCATIONS SEE 1/E2.1, 1/E2.2 AND 3/E2.2.
6. ROUTE SCORE BOX BRANCH CIRCUIT VIA INGROUND JUNCTION BOX TO PANEL INDICATED. SEE KEYED NOTE 7, 3"10, 3/4" IN. C.
7. INGROUND JUNCTION BOX FOR SCOREBOARD AND SCORE BOX WIRING. COORDINATE LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE QUAZITE PG STYLE JUNCTION BOX OR APPROVED EQUAL. SEE DETAIL 3/E.I.I.
8. PROVIDE 2-3 IN.C. FOR TELEPHONE SERVICE AND SPARE. PROVIDE HAND-HOLES AS REQUIRED BY 2020 NEC IN GRASS AREA. COORDINATE STUB-OUT LOCATION AT PROPERTY LINE WITH SERVICE PROVIDERS.
9. STUB UP UNDER TEL BOARD.
10. IN THE SCORE BOX PROVIDE (1) SWITCH FOR SCOREBOARD AND (1) GFCI DUPLEX RECEPTACLE MOUNTED IN NEMA 3R ENCLOSURE. SEE KEYED NOTE 5 AND DETAILS 4 AND 5/E.I.I.

GENERAL NOTES - LOCATION OF UTILITY COMPANY PAD MOUNTED TRANSFORMER:

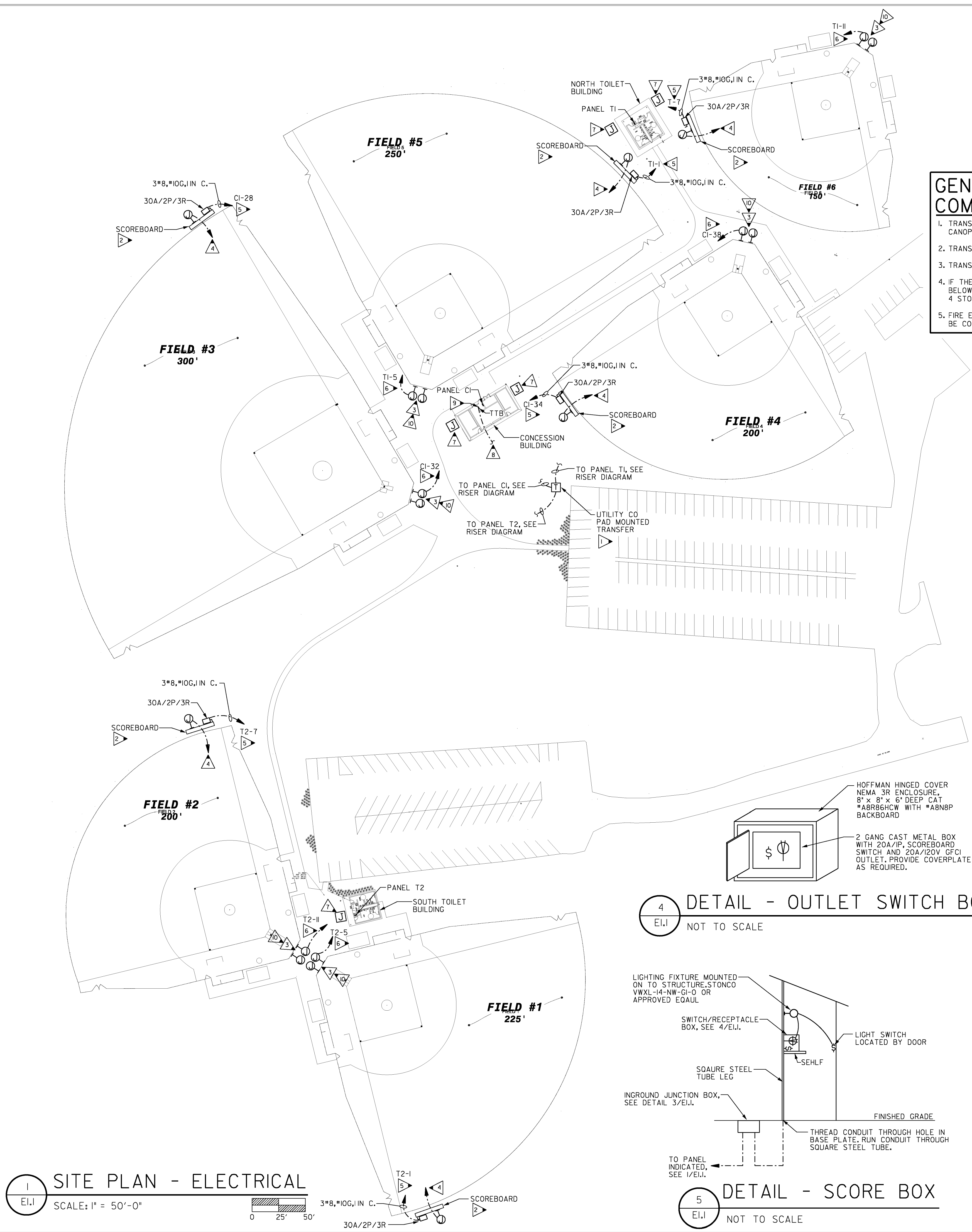
1. TRANSFORMER PAD LOCATIONS SHALL BE A MINIMUM OF 10 FT.-0 IN. FROM ANY BUILDING OVERHANGS, CANOPIES, EXTERIOR WALLS, BALCONY, EXTERIOR STAIRS AND OR WALKWAYS CONNECTED TO THE BUILDING.
2. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 14 FT.-0 IN. FROM ANY DOOR WAY.
3. TRANSFORMER PAD EDGE SHALL BE NO LESS THAN 10 FT.-0 IN. FROM ANY WINDOWS OR OTHER OPENINGS.
4. IF THE BUILDING HAS AN OVERHANG THE 10 FT.-0 IN. CLEARANCE SHALL BE MEASURED FROM A POINT BELOW THE EDGE OF THE OVERHANG ONLY IF THE BUILDING IS 3 STORIES OR LESS. IF THE BUILDING IS 4 STORIES OR MORE 10 FT.-0 IN. SHALL BE MEASURED FROM THE OUTSIDE BUILDING WALL.
5. FIRE ESCAPES, OUTSIDE STAIRS, AND COVERED WALKWAYS ATTACHED TO OR BETWEEN BUILDINGS, SHALL BE CONSIDERED PART OF THE BUILDING.

SCOREBOARD DETAIL NOTES:

1. CONTRACTOR SHALL INSTALL DISCONNECT SWITCH ONTO THE BACK OF THE SCOREBOARD. LOCATE APPROXIMATELY 24" FROM POINT OF ENTRY INTO THE BACK OF THE UNIT. MOUNT SUCH THAT THE ACCESS PANEL IS NOT INTERFERED WITH.
2. CONTRACTOR SHALL GROUND EACH SCOREBOARD AS PER THE MANUFACTURER'S REQUIREMENTS. RUN 1 #4 CU IN 1/2" PVC CONDUIT FROM THE GROUND POINT ON THE SCOREBOARD TO A 10' X 3/4" GROUND ROD DRIVEN NEAR ONE OF THE SUPPORT LEGS. CONNECT TO GROUND ROD AS REQUIRED.
3. CONTRACTOR SHALL INSTALL SCOREBOARD AS SHOWN PER MFG. SPECS. SCOREBOARD IS BY OTHERS.
4. CONTRACTOR SHALL PRIME AND PAINT ALL POSTS, STEEL ANGLES AND BRACKETS W/ GALVANIZED PAINT, TWO COATS.

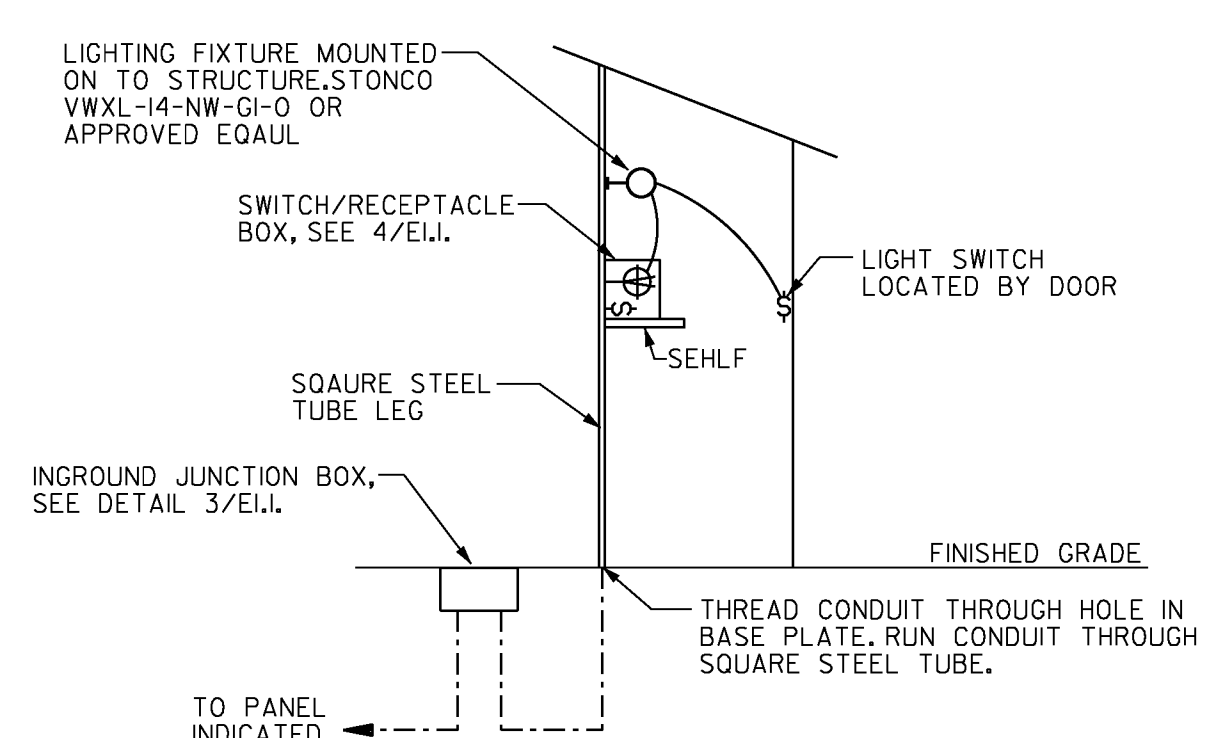


2 DETAIL - SCOREBOARD
E.I.I. NOT TO SCALE

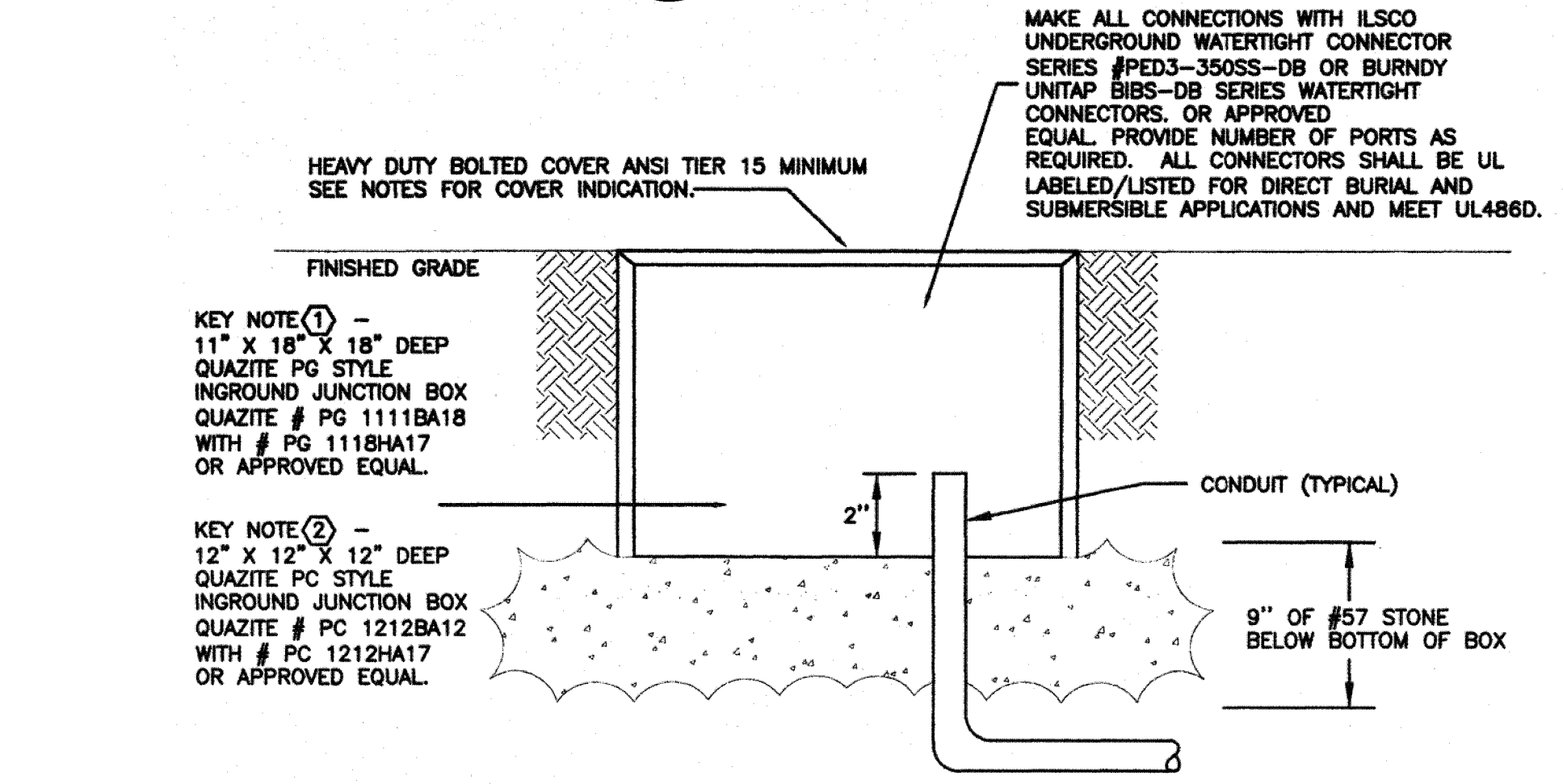


1 SITE PLAN - ELECTRICAL
E.I.I. SCALE: 1" = 50'-0"

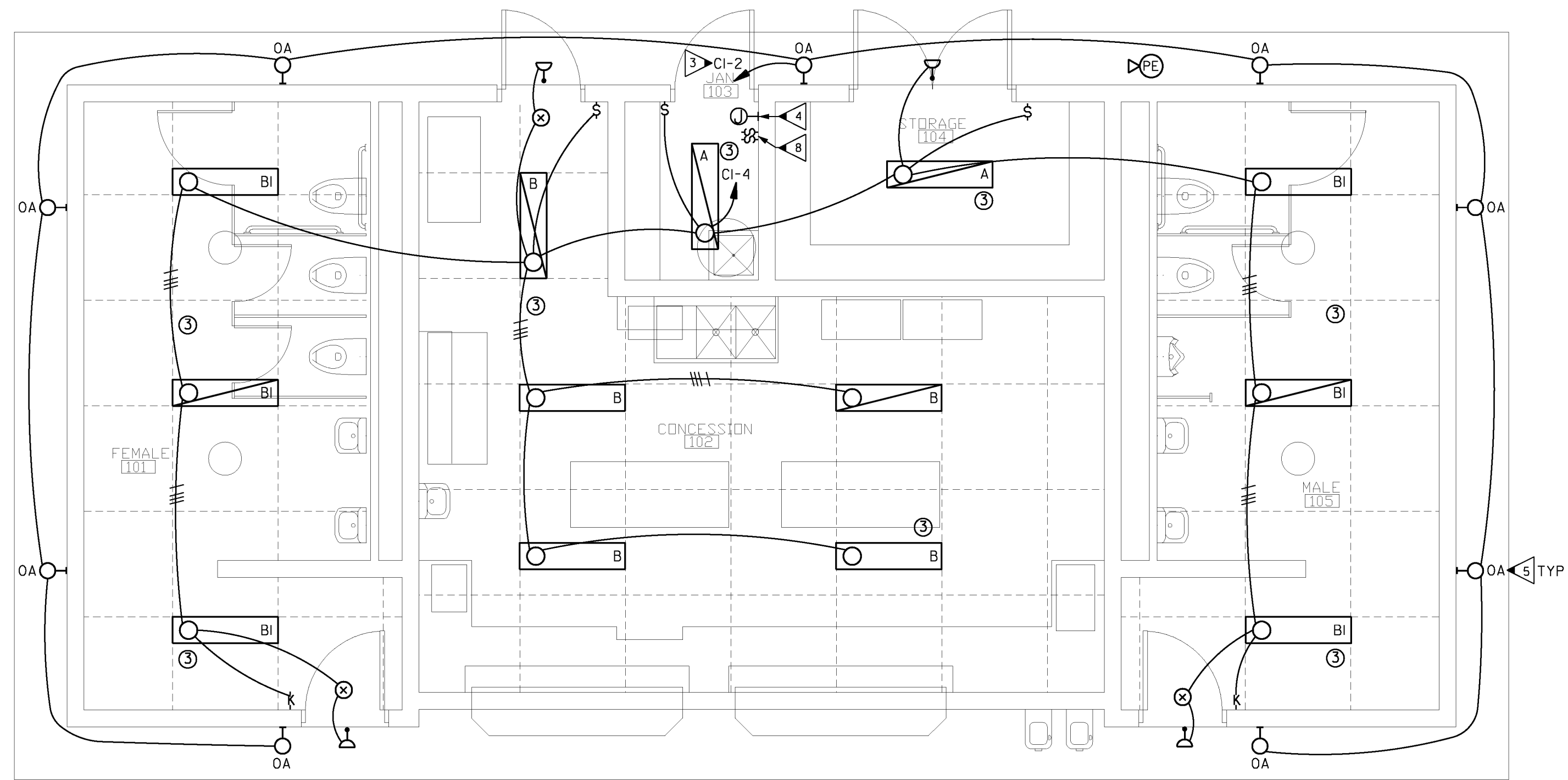
4 DETAIL - OUTLET SWITCH BOX
E.I.I. NOT TO SCALE



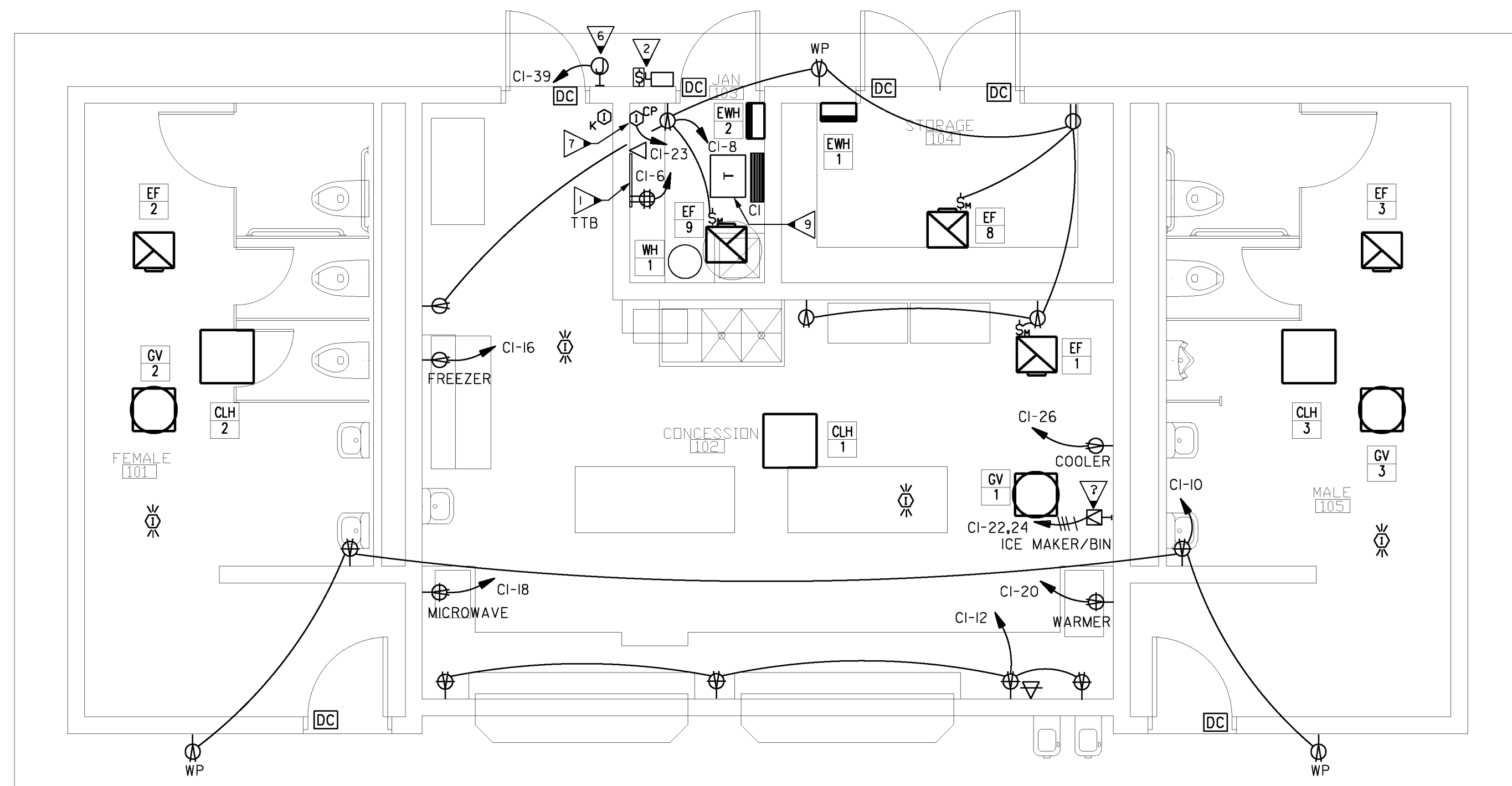
5 DETAIL - SCORE BOX
E.I.I. NOT TO SCALE



3 DETAIL - IN GROUND JUNCTION BOX INSTALLATION
E.I.I. NOT TO SCALE



1 FLOOR PLAN - CONCESSION LIGHTING
E2.1 SCALE: 1/4" = 1'-0"



2 FLOOR PLAN - CONCESSION POWER AND SYSTEMS
E2.1 SCALE: 1/4" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- 1 TELCO BACKBOARD, SEE E.L.I. COORDINATE EXACT REQUIREMENTS WITH OWNER, SEE DETAIL 6/3.1.
- 2 DISCONNECT AND KNOX BOX, SEE RISER DIAGRAM E3.1.
- 3 ROUTE VIA EXTERIOR LIGHTING CONTACTOR, ONE 20A/1P CONTACT PER CIRCUIT, CONTROL CONTACTOR BY P.E. CELL MOUNTED ON NORTHSIDE OF BUILDING SHIELDED FROM MAN-MADE LIGHTING SOURCES, MOUNT IN EXTERIOR CAST METAL BOX WITH GASKETED COVER.
- 4 TIME CLOCK AND CONTACT.
- 5 COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 6 JUNCTION BOX FOR IRRIGATION CONTROL, COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 7 INTRUSION ALARM CONTROL PANEL, COORDINATE EXACT REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 8 PROVIDE AND INSTALL (1) 2 GANG METAL FD BOX WITH (2) 20A 1POLE LIGHT SWITCHES FOR CONTROL OF SCOREBOARDS, PROVIDE PHENOLIC TAG FOR EACH SWITCH INDICATING WITH SCOREBOARD THE SWITCH CONTROLS.
- 9 TRANSFORMER SUSPENDED FROM STRUCTURE, SEE RISER DIAGRAM AND DETAIL 7/3.1.

GENERAL NOTES:

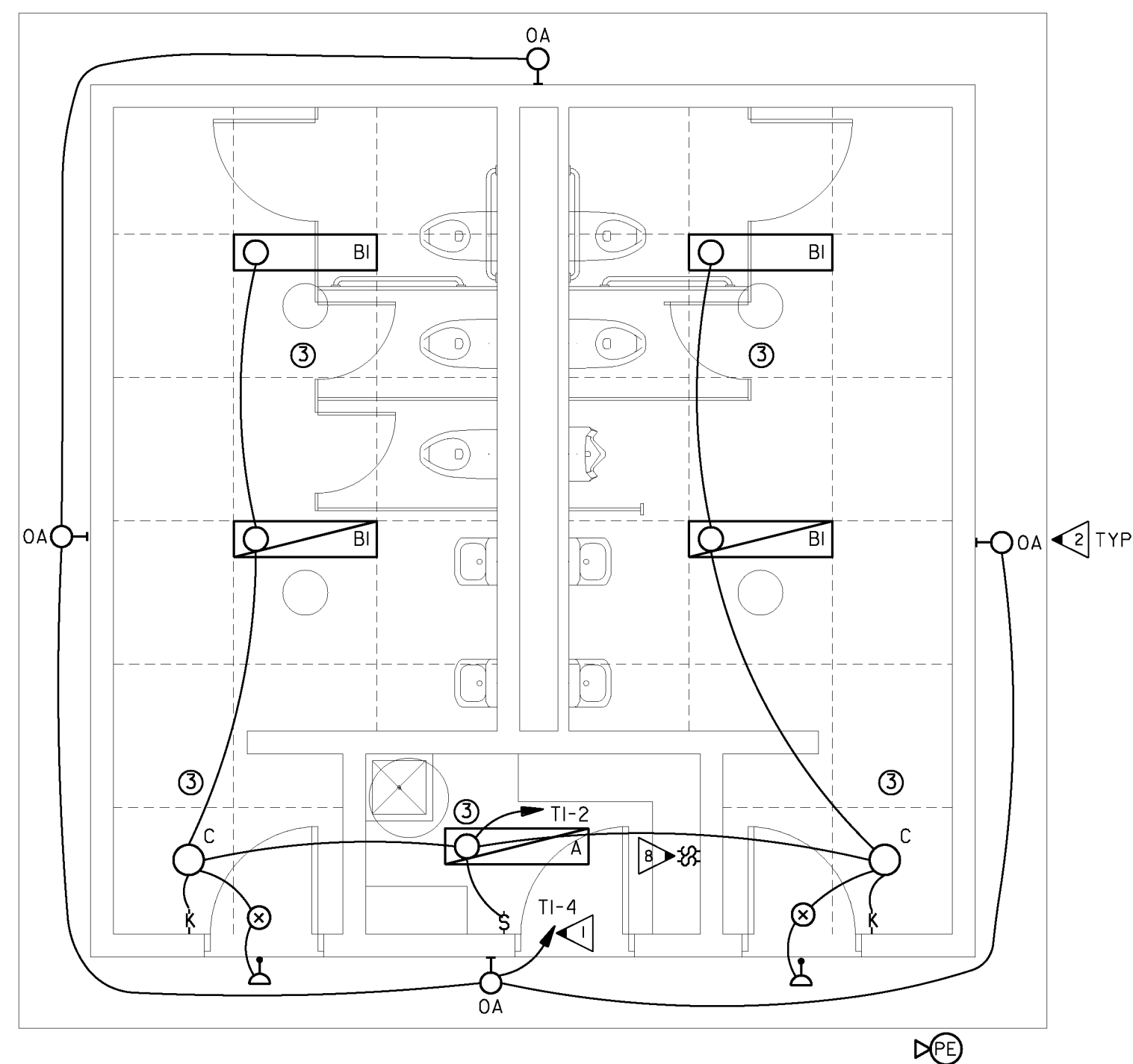
- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN, NO EXCEPTIONS.
- D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS. SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- E. FIRE SEAL ALL FIREWALL PENETRATIONS.
- F. CONTRACTOR TO FIELD VERIFY AND COORDINATE ALL EQUIPMENT UTILITY REQUIREMENTS PRIOR TO START OF ROUGH-IN PER NEC 2020.
- G. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

MECHANICAL EQUIPMENT POWER SCHEDULE						
UNIT NAME	VOLTAGE / PHASE	CIRCUIT BREAKER	PANEL NAME / CIRCUIT NUMBER	FEEDER	DISCONNECT SWITCH	NOTES
EWH-1	208V/1Ø	25A/2P	CI-17	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
EWH-2	120V/1Ø	20A/1P	CI-21	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	
EWH-3	120V/1Ø	20A/1P	TI-10	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	
EWH-4	120V/1Ø	20A/1P	TI-10	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-1	208V/1Ø	30A/2P	CI-5	4*10, 3/4 IN. C.	MOTOR RATED SWITCH	
CLH-2	208V/1Ø	25A/2P	CI-9	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-3	208V/1Ø	25A/2P	CI-13	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-4	208V/1Ø	25A/2P	TI-12	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-5	208V/1Ø	25A/2P	TI-16	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-6	208V/1Ø	25A/2P	TI-12	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
CLH-7	208V/1Ø	25A/2P	TI-16	3*12, #10G, 1/2 IN. C.	MOTOR RATED SWITCH	
EF-1	115V/1Ø	20A/1P	SEE NOTE 5	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L3,5
EF-2	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-3	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-4	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-5	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-6	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-7	115V/1Ø	20A/1P	SEE NOTE 4	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L4
EF-8	115V/1Ø	20A/1P	SEE NOTE 5	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L3,5
EF-9	115V/1Ø	20A/1P	SEE NOTE 5	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L2,5
EF-10	115V/1Ø	20A/1P	SEE NOTE 5	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L2,5
EF-11	115V/1Ø	20A/1P	SEE NOTE 5	3*12, 1/2 IN. C.	MOTOR RATED SWITCH	L2,5
WH-1	208V/1Ø	60A/2P	CI-2	3*6, #10G, 1/2 IN. C.	60A/2P	
WH-2	208V/1Ø	30A/2P	TI-13	3*3, #6G, 1/4 IN. C.	100A/2P	
WH-3	208V/1Ø	30A/2P	TI-13	3*3, #6G, 1/4 IN. C.	100A/2P	

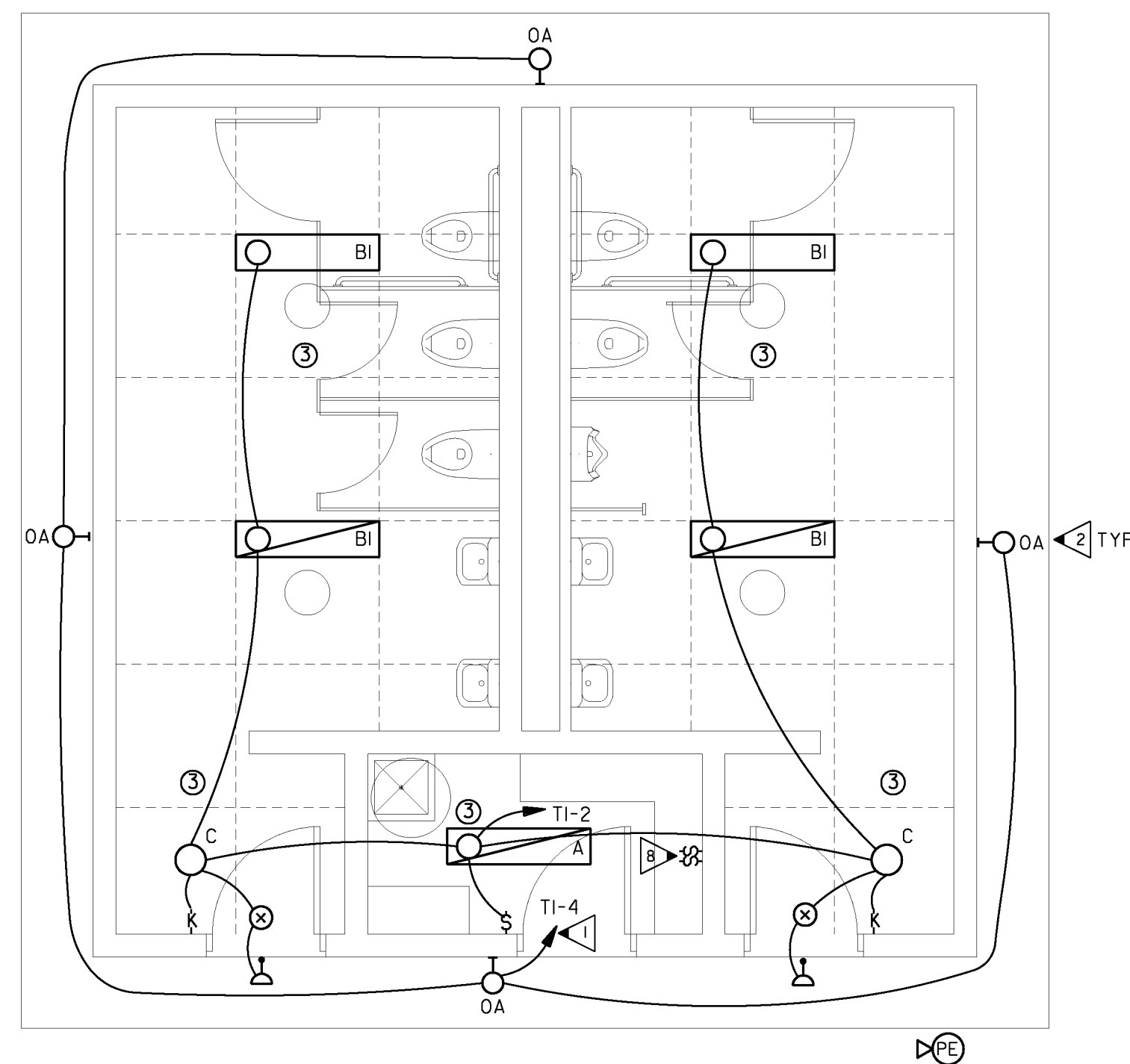
NOTES:
 1. SEE MECHANICAL FOR EXACT CONTROL REQUIREMENTS.
 2. PROVIDE WALL SWITCH ADJACENT LIGHT SWITCH FOR CONTROL.
 3. FAN SHALL BE CONTROLLED BY LINE VOLTAGE THERMOSTAT.
 4. INTERLOCK AND POWER FAN VIA LIGHTING CIRCUIT IN AREA SERVED, PROVIDE TIME DELAY RELAY (15 MIN.).
 5. POWER FAN VIA RECEPTACLE CIRCUIT LOCATED IN ROOM SERVING, SEE FLOOR PLAN.

Drawing Number: **E2.1** ISSUE SET DATE: 4/13/2021
Widner & Associates, Inc.
 P.O. BOX 10011, MACON, GEORGIA 31211
 (478) 835-1100 FAX (478) 835-1101
GEORGIA REGISTERED PROFESSIONAL ENGINEER
 JEFFREY H. WADDE
BLOOMFIELD RECREATION CENTER
NEW CONCESSIONS / TOILETS
 MACON, GEORGIA
 PROJECT NUMBER 20-119
E2.1 ISSUE SET DATE: 4/13/2021

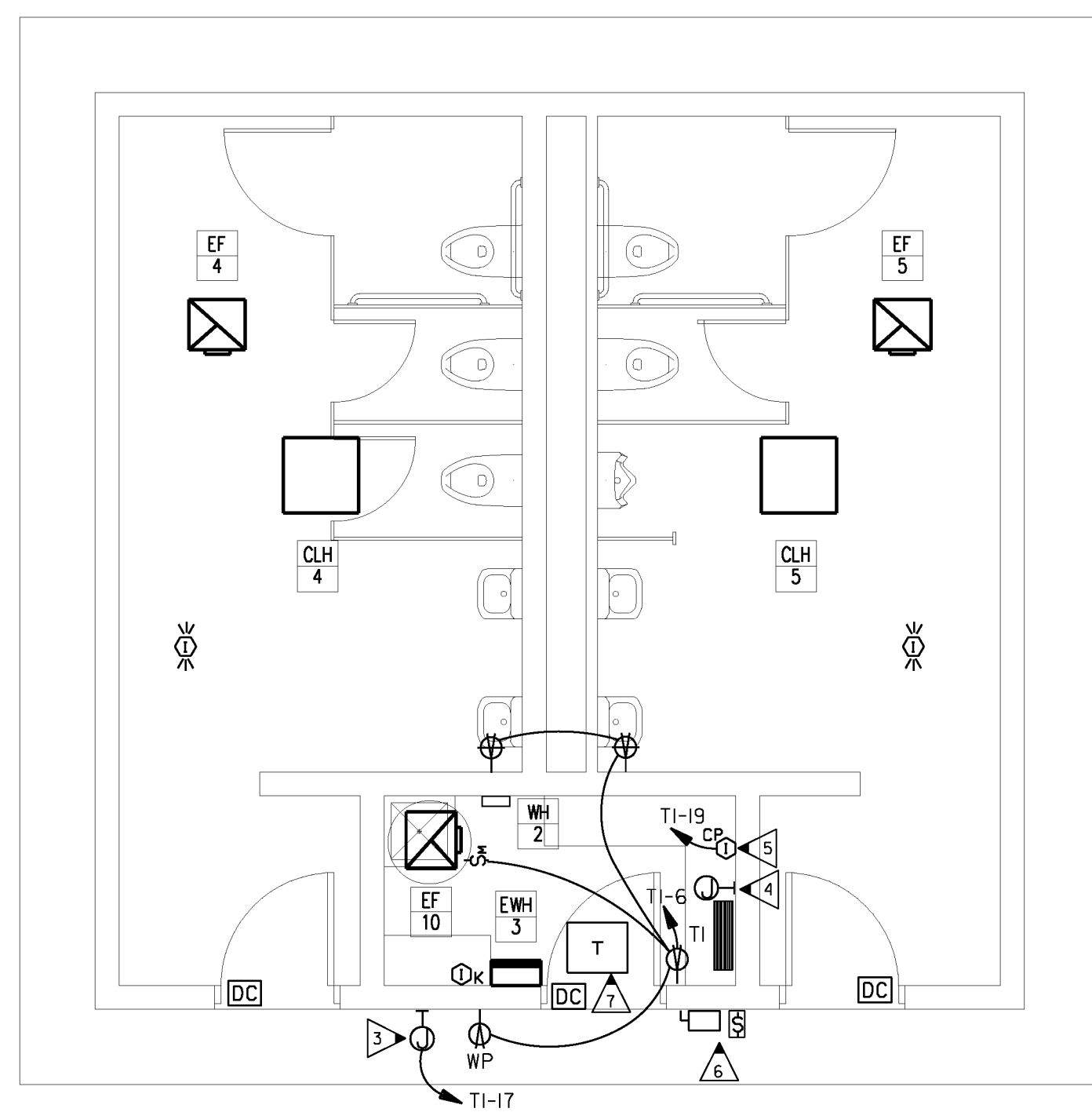




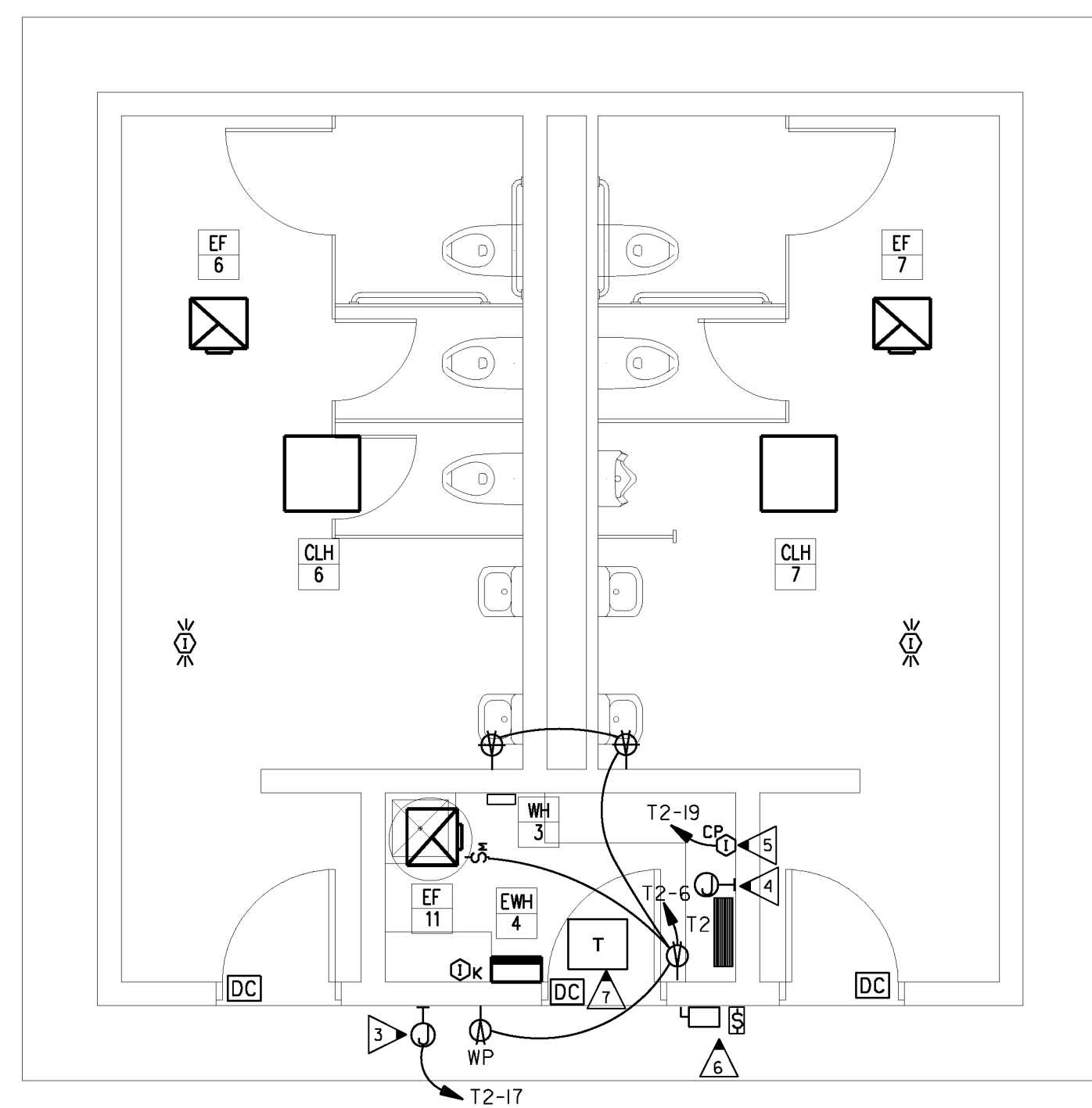
1 FLOOR PLAN - NORTH TOILET LIGHTING
 E2.2 SCALE: 1/8" = 1'-0"
 0 4' 8'



3 FLOOR PLAN - SOUTH TOILET LIGHTING
 E2.2 SCALE: 1/8" = 1'-0"
 0 4' 8'



2 FLOOR PLAN - NORTH TOILET POWER AND SYSTEMS
 E2.2 SCALE: 1/8" = 1'-0"
 0 4' 8'



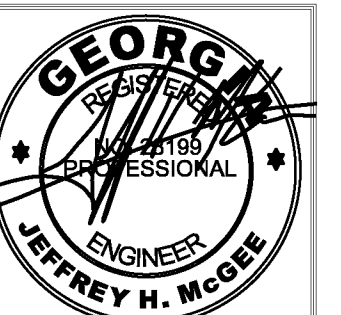
4 FLOOR PLAN - SOUTH TOILET POWER AND SYSTEMS
 E2.2 SCALE: 1/8" = 1'-0"
 0 4' 8'

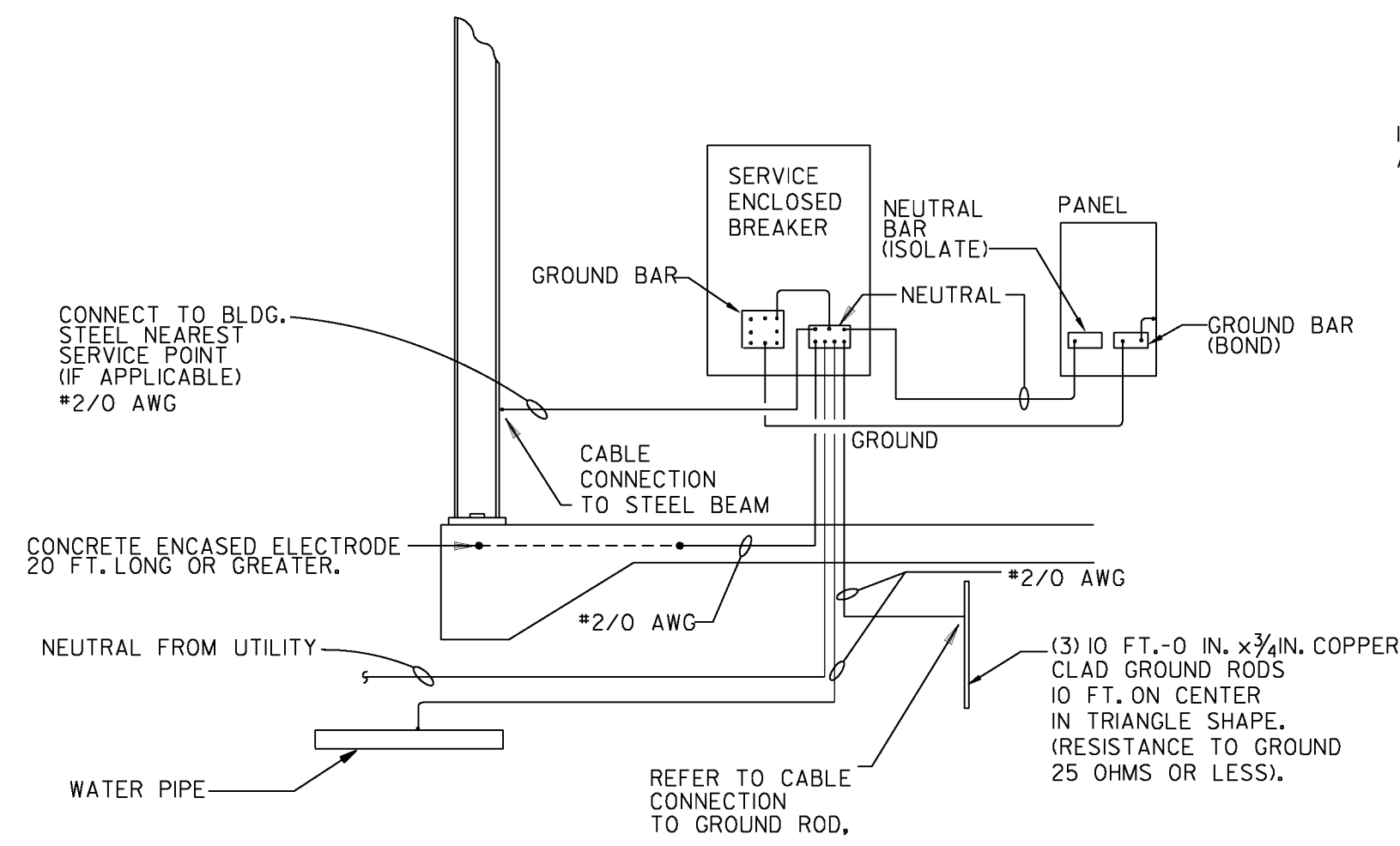
KEYED NOTES: (THIS SHEET ONLY)

- 1 ROUTE VIA EXTERIOR LIGHTING CONTACTOR, ONE 20A/1P CONTACT PER CIRCUIT, CONTROL CONTACTOR BY P.E. CELL MOUNTED ON NORTHSIDE OF BUILDING SHIELDED FROM MAN-MADE LIGHTING SOURCES, MOUNT IN EXTERIOR CAST METAL BOX WITH GASKETED COVER.
- 2 COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3 JUNCTION BOX FOR IRRIGATION CONTROL, COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 4 TIME CLOCK AND CONTACT.
- 5 INTRUSION ALARM CONTROL PANEL, COORDINATE EXACT REQUIREMENTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 6 DISCONNECT AND KNOX BOX, SEE RISER DIAGRAM E3.J.
- 7 TRANSFORMER SUSPENDED FROM STRUCTURE, SEE RISER DIAGRAM AND DETAIL T/3.I.
- 8 PROVIDE AND INSTALL (1) 2 GANG METAL FD BOX WITH (2) 20A 1POLE LIGHT SWITCHES FOR CONTROL OF SCOREBOARDS, PROVIDE PHENOLIC TAG FOR EACH SWITCH INDICATING WITH SCOREBOARD THE SWITCH CONTROLS.

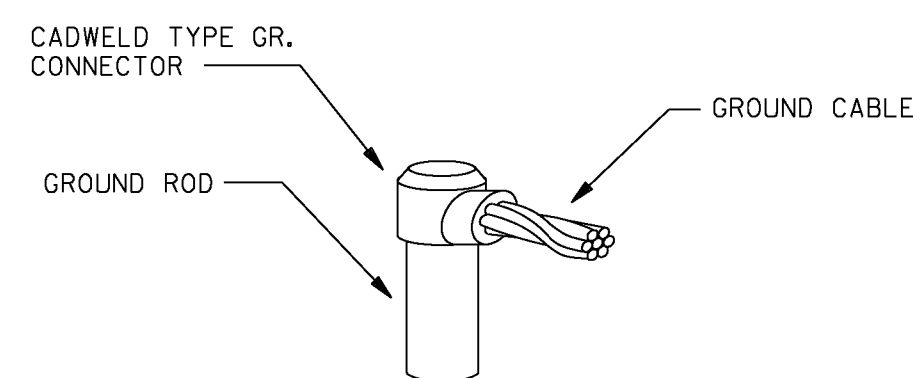
GENERAL NOTES:

- A. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, PRIOR TO ELECTRICAL ROUGH-IN.
- B. ALL FLEXIBLE CONDUIT SHALL BE METALLIC WATERPROOF.
- C. COORDINATE FINAL RECEPTACLE AND DATA OUTLET LOCATIONS WITH ARCHITECTURAL CASEWORK AND OWNER PRIOR TO ROUGH-IN, NO EXCEPTIONS.
- D. COORDINATE EXACT CONDUIT REQUIREMENTS FOR THERMOSTATS TO ALL AIR HANDLING UNITS, SEE MECHANICAL DRAWINGS FOR EXACT LOCATIONS.
- E. FIRE SEAL ALL FIREWALL PENETRATIONS.
- F. CONTRACTOR TO FIELD VERIFY AND COORDINATE ALL EQUIPMENT UTILITY REQUIREMENTS PRIOR TO START OF ROUGH-IN PER NEC 2020.
- G. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC.

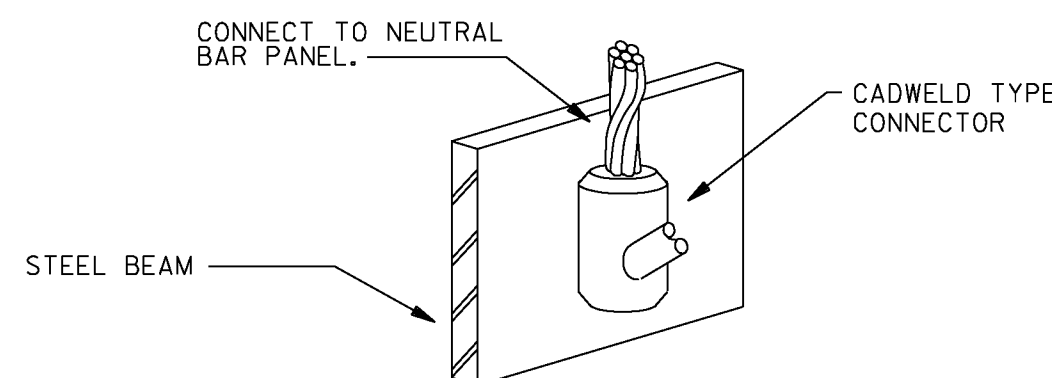




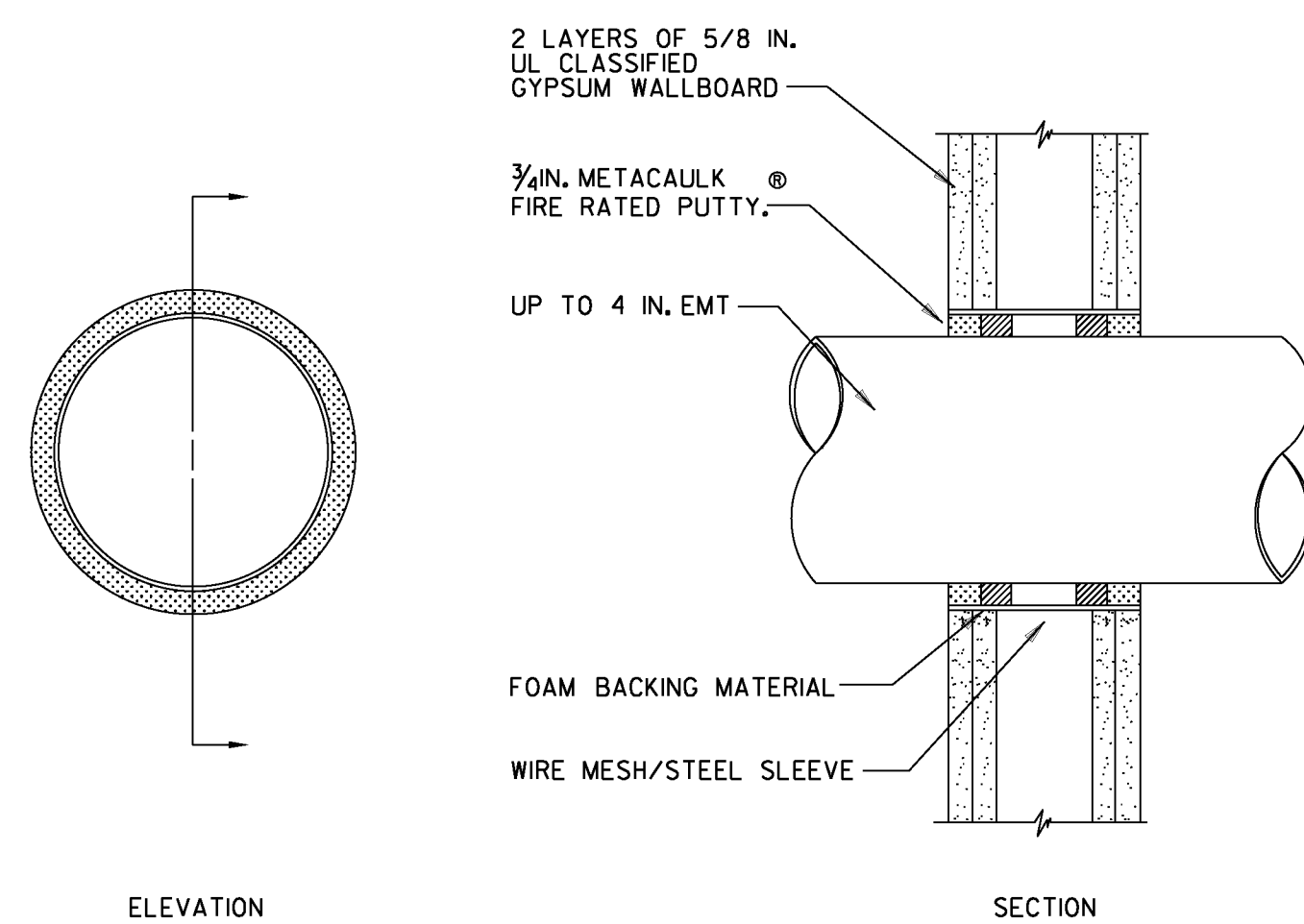
2 SERVICE GROUNDING DETAIL
E3.1 NOT TO SCALE



3 CABLE CONNECTION TO GROUND ROD
E3.1 NOT TO SCALE

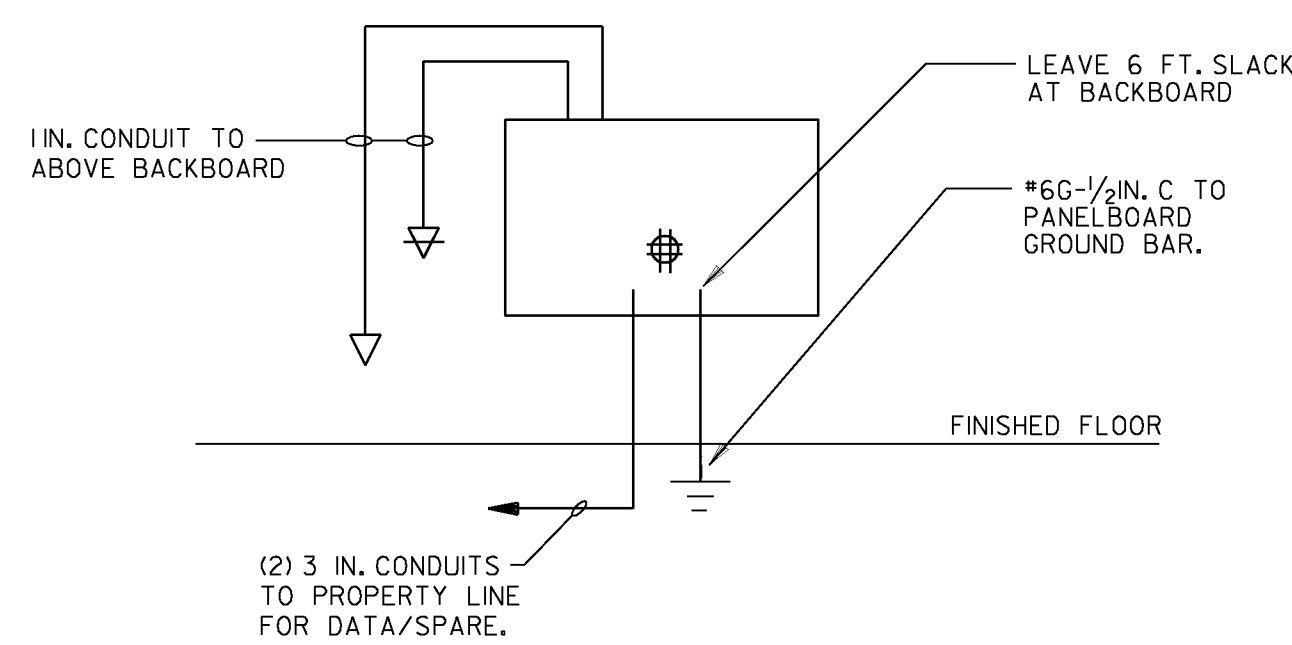


4 CABLE CONNECTION TO STEEL BEAM
E3.1 NOT TO SCALE

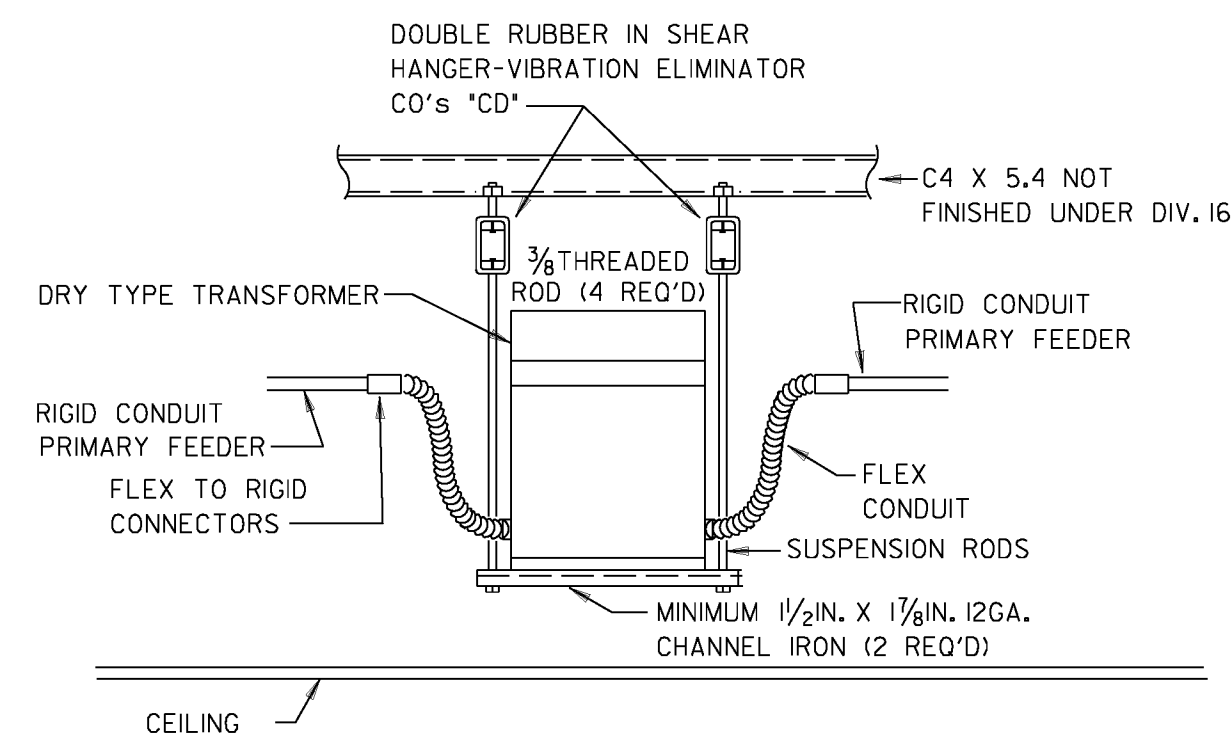


NOTE: WHERE CONDUIT IS USED AS A SLEEVE FOR ROUTING LOW VOLTAGE CABLES THROUGH A RATED WALL, LOCATE CONDUCTORS IN CENTER OF SLEEVE AND FILL OPENING WITH FIRE RATED PUTTY AT EACH END OF SLEEVE. COORDINATE EXACT REQUIREMENT WITH DIVISION 7.

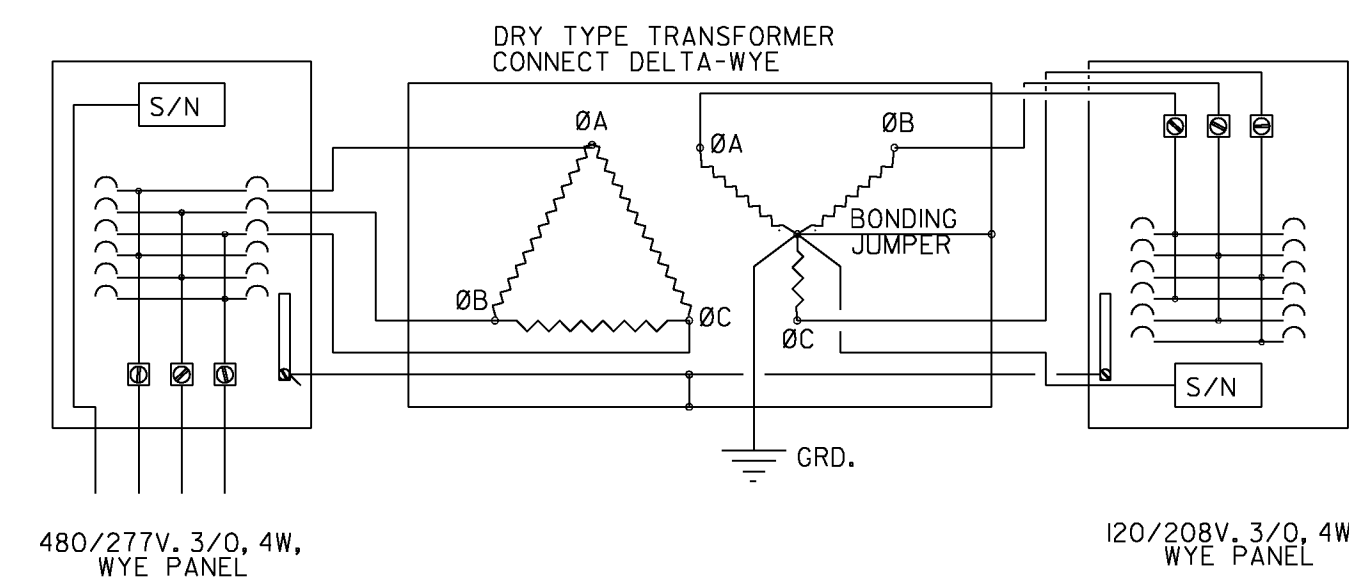
5 DETAIL - GYPSUM WALLBOARD PENETRATION
E3.1 NOT TO SCALE



6 TELEPHONE RISER
E3.1 NOT TO SCALE

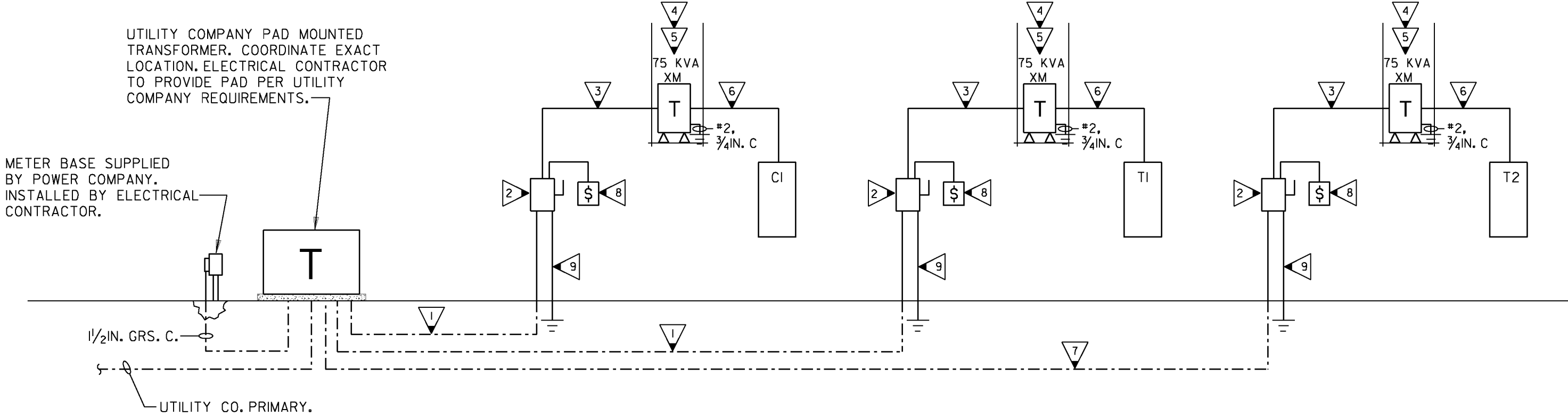


7 SUSPENDED TRANSFORMER DETAIL
E3.1 NOT TO SCALE



8 DRY TYPE TRANSFORMER CONNECTION
E3.1 NOT TO SCALE

VOLTAGE	120	208	PANEL		T2		LOCATION	TOILETS SOUTH SURFACE		
PHASE 3 WIRE 4 BUS AMPS	225		MAIN AMPS		225		MAIN	BREAKER		
DESCRIPTION	A	B	C	AMP	PKT NO	PKT NO	A	B	A	
FIELD 1 SCOREBOARD	800			20	2	1	20		254	
FIELD 1 SCORE BOX	800			20	3	1	20		164	
FIELD 2 SCOREBOARD	800	1000		20	7	1	20		850	
FIELD 2 SCOREBOARD	800			20	9	1	20		1500	
FIELD 2 SCORE BOARD	800	1000		20	11	1	20		1997	
WH-3	6968			90	2	13	14		1997	
WH-3	6968			90	2	15	16		1997	
IRRIGATION CONTROLS	100			20	1	17	18		1997	
SECURITY PANEL	100			20	1	19	20			
SPARE				20	1	21	22			
SPARE				20	1	23	24			
SPARE				20	1	25	26			
SPARE				20	1	27	28			
SPARE				20	1	29	30			
TOTALS	8668	8568	2100					4844	3661 2251	
VOLT AMPS	BUS A	10919	REMARKS: COORDINATE AIC RATING WITH POWER CO. 30 POLE PANEL.							
	BUS B	12229								
	BUS C	6944								
	TOTAL	30092								



1 POWER RISER DIAGRAM
E3.1 NOT TO SCALE

KEYED NOTES: (THIS SHEET ONLY)

- 1 4#1/0, 2 IN. C.
- 2 150A/3P/3R SERVICE ENTRANCE RATED ENCLOSED CIRCUIT BREAKER. COORDINATE AIC RATING WITH POWER COMPANY.
- 3 4#1/0, #6G, 2 IN. C.
- 4 SEE TRANSFORMER CONNECTION DETAIL, 8/E3.1.
- 5 SEE SUSPENDED TRANSFORMER DETAIL, 7/E3.1.
- 6 4#4/0, #6G, 2 1/2 IN. C.
- 7 4#2/0, 2 IN. C. (SIZED FOR VOLTAGE DROP, APPROX. DISTANCE IS 450 FEET).
- 8 SURFACE MOUNTED NEMA 3R KNOX REMOTE POWER BOX PRODUCT NUM. MKT-KBSPEC-0169. CONNECT TO 150A, (480/277V), 3PH ENCLOSED CIRCUIT BREAKER WITH SHUNT TRIP TO REMOTELY DISCONNECT POWER.
- 9 SEE SERVICE GROUNDING DETAIL 2/E3.1.

VOLTAGE	120	208	PANEL		CI		LOCATION	JAN 103 SURFACE		
PHASE 3 WIRE 4 BUS AMPS	225		MAIN AMPS		225		MAIN	BREAKER		
DESCRIPTION	A	B	C	AMP	PKT NO	PKT NO	A	B	A	
WH-1	4493			40	2	2	20		533	
CLH-1	2496			30	2	5	6		110	
CLH-2	1997			25	2	9	10		800	
CLH-3	1997			25	2	13	14			
EW-1	2000	1500		25	2	15	16		460	
EW-2	1500			20	1	19	20		648	
SECURITY PANEL	100			20	1	21	22		1344	
IRRIGATION CONTROLS	100			20	1	23	24		345	
SPARE				20	1	25	26		800	
SPARE				20	1	27	28		800	
SPARE				20	1	29	30		1000	
SPARE				20	1	31	32		800	
SPARE				20	1	33	34		800	
SPARE				20	1	35	36		800	
SPARE				20	1	37	38		1000	
SPARE				20	1	39	40			
SPARE				20	1	41	42			
TOTALS	10866	9967	6593					5444	4573 4676	
VOLT AMPS	BUS A	15762	REMARKS: COORDINATE AIC RATING WITH POWER CO. PROVIDE FEED THRU LUGS							
	BUS B	14540								
	BUS C	12037								
	TOTAL	42339								

VOLTAGE	120	208	PANEL		T1		LOCATION	TOILETS NORTH SURFACE		
PHASE 3 WIRE 4 BUS AMPS	225		MAIN AMPS		225		MAIN	BREAKER		
DESCRIPTION	A	B	C	AMP	PKT NO	PKT NO	A	B	A	
FIELD 5 SCOREBOARD	800			20	2	1	20		254	
FIELD 5 SCORE BOX	800			20	3	1	20		164	
FIELD 6 SCOREBOARD	800	1000		20	7	1	20		850	
FIELD 6 SCOREBOARD	800			20	9	1	20		1500	
FIELD 6 SCORE BOX	800	1000		20	11	1	20		1997	
WH-2	6968			90	2	13	14		1997	
WH-2	6968			90	2	15	16		1997	
IRRIGATION CONTROLS	100			20	1	17	18		1997	
SECURITY PANEL	100			20	1	19	20			
SPARE				20	1	21	22			
SPARE				20	1	23	24			
SPARE				20	1	25	26			
SPARE				20	1	27	28			
SPARE				20	1	29	30			
TOTALS	8668	8568	2100					4844	3661 2251	
VOLT AMPS	BUS A	10919	REMARKS: COORDINATE AIC RATING WITH POWER CO. 30 POLE PANEL.							
	BUS B	12229								
	BUS C	6944								
	TOTAL	30092								