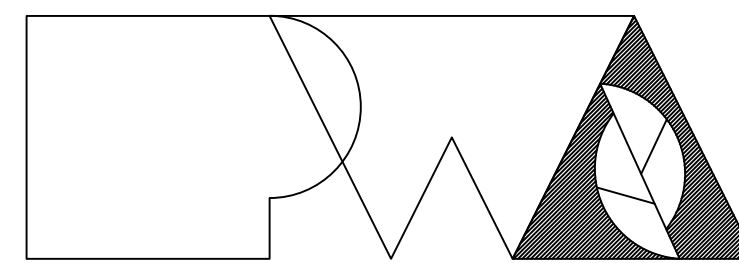


# LATRINE RENOVATION

## FULTON READINESS CENTER

### Fulton, Missouri

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Peckham & Wright Architects, Inc., d.b.a.

### PWArchitects, Inc.

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OWNER: STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR

MISSOURI NATIONAL GUARD  
OFFICE OF THE ADJUTANT GENERAL  
FACILITIES MANAGEMENT OFFICE

PROJECT  
MANAGEMENT: OFFICE OF ADMINISTRATION  
DIVISION OF FACILITIES MANAGEMENT,  
DESIGN AND CONSTRUCTION

DESIGNER: PWArchitects, Inc.  
2120 Forum Blvd., Ste. 101  
Columbia, Missouri 65203

PROJECT NUMBER: T2137-01

SITE NUMBER: **6290**  
ASSET NUMBER: **8136290001**



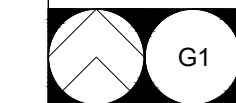
07/07/2022

SHEET NUMBER:

# G-001

1 OF 19 SHEETS  
JULY 07, 2022

M  
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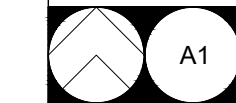
**STATE OF MISSOURI MAP**  
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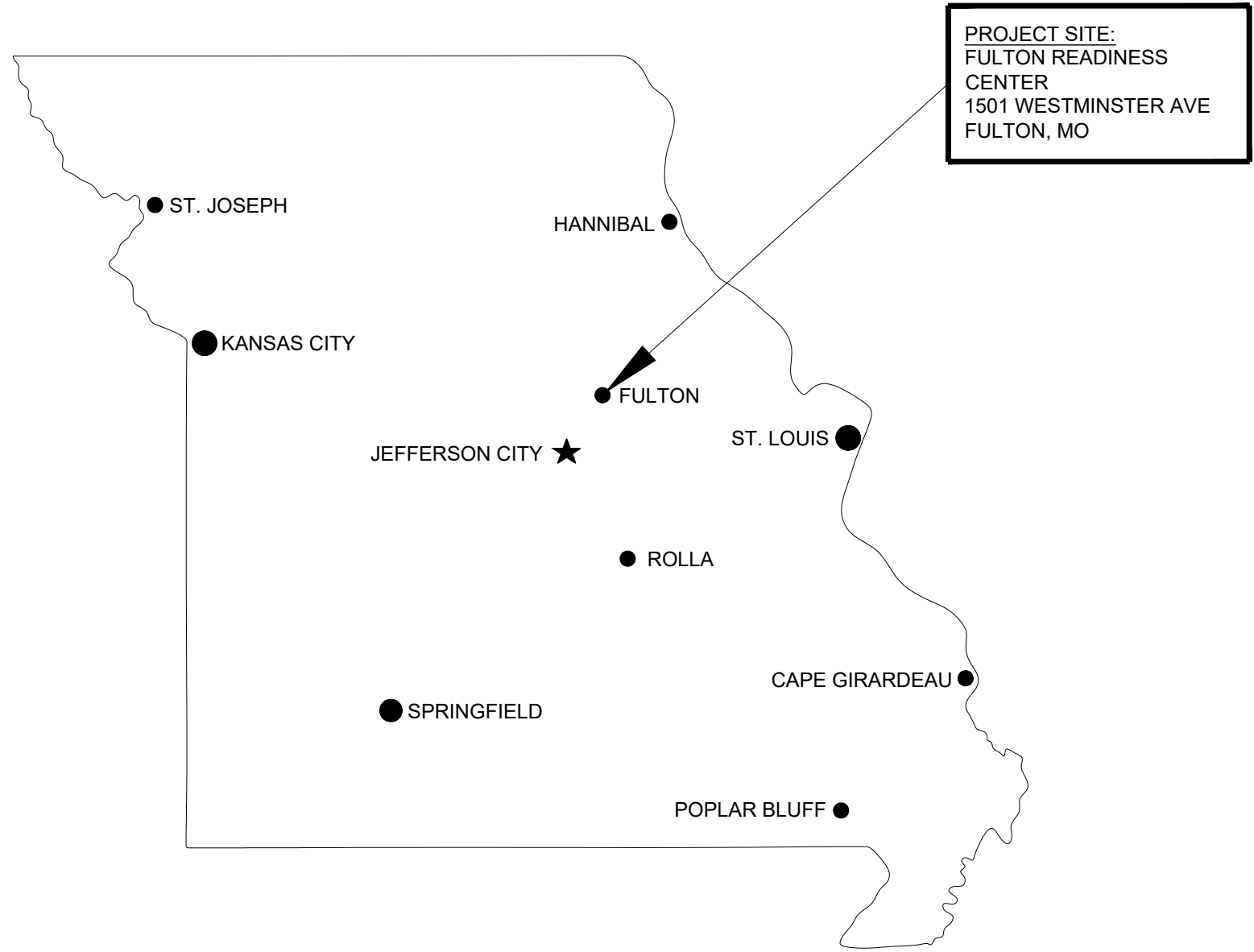
**KEY PLAN**  
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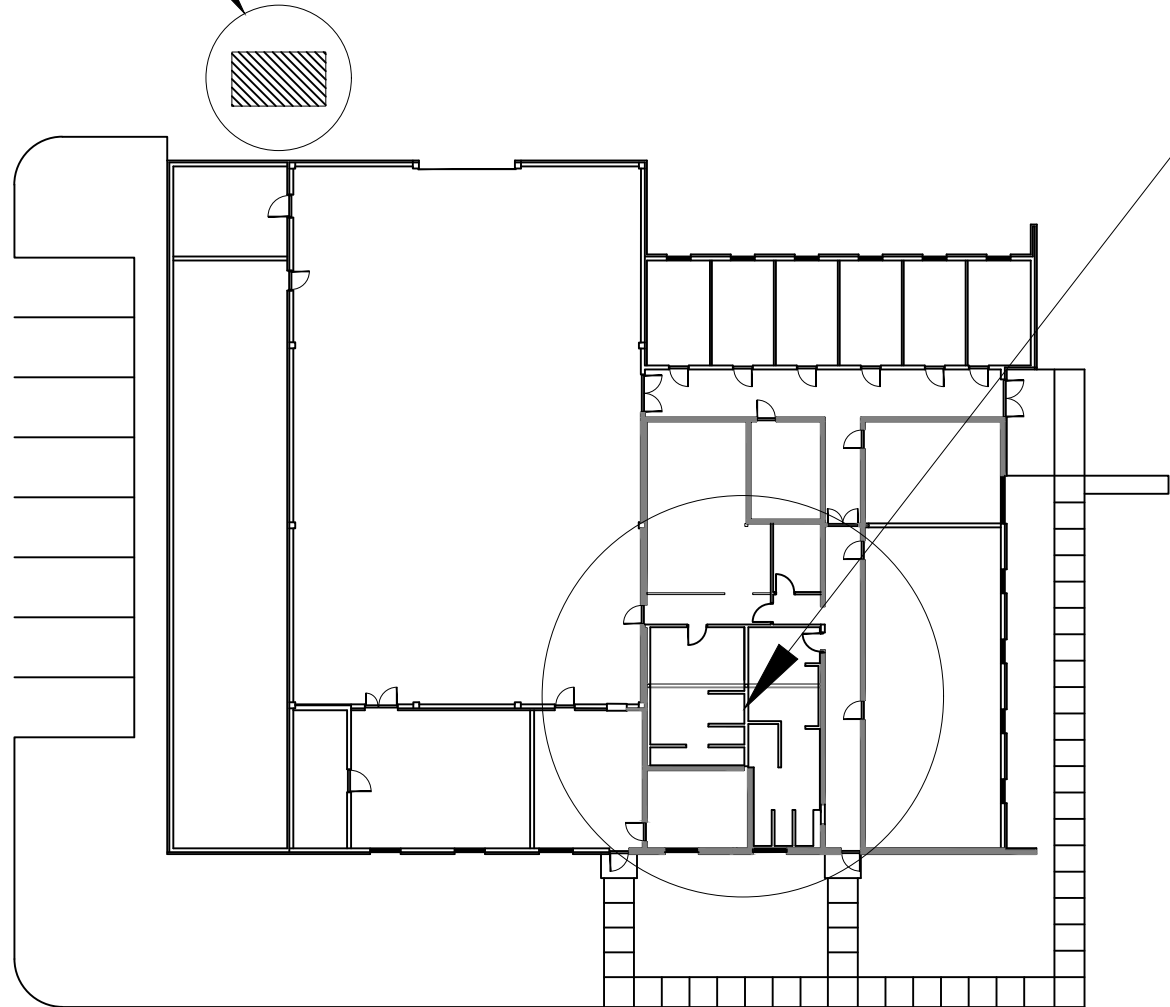
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**LOCATION MAP**  
SCALE: N.T.S.



ALTERNATE #1: APPROX.  
LOCATION OF TEMPORARY  
RESTROOM FACILITIES -  
FIELD COORDINATE FINAL  
LOCATION WITH OWNER'S  
REPRESENTATIVE



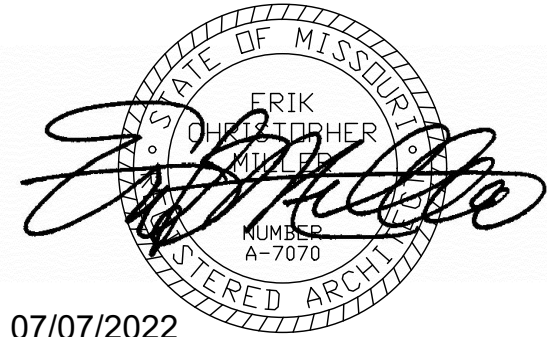
PROJECT LOCATION  
WITHIN BUILDING

**LIST OF DRAWINGS**

G-001	COVER SHEET
G-101	INDEX SHEET
G-102	GENERAL NOTES & LEGENDS
S-100	PARTIAL FLOOR PLAN & DETAILS
D-101	DEMO FLOOR PLAN & REFLECTED CEILING PLAN
A-100	SLAB PLAN
A-101	FLOOR PLAN & REFLECTED CEILING PLAN
A-102	ACCESSORY PLAN & ADA DETAILS
A-201	ELEVATIONS & DETAILS
A-301	PARTITION TYPES & DETAILS
A-601	SCHEDULES & DETAILS
M-101	HVAC PLAN
M-501	HVAC DETAILS & SCHEDULES
ED-101	ELECTRICAL DEMOLITION PLAN
E-101	ELECTRICAL PLANS
E-501	ELECTRICAL DETAILS & SCHEDULES
P-101	SANITARY SEWER PLAN
P-102	WATER PLAN
P-501	PLUMBING DETAILS & SCHEDULES



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CONSTRUCTION

LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

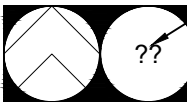
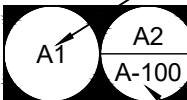







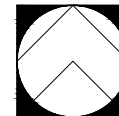

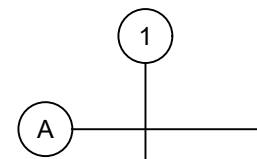

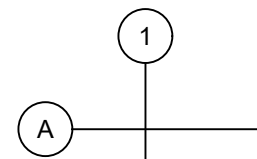

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

















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DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
ISSUE DATE: 07/07/2022

CAD DWG FILE: G-101  
DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
**INDEX SHEET**

SHEET NUMBER:  
**G-101**  
2 OF 19 SHEETS  
07/07/2022

DRAWING BULLET WITH NORTH ARROW		GRID REFERENCE	
	<b>DRAWING TITLE</b>	ARCH. SCALE	
SCALE: X/X" = 1'-0"			
DRAWING BULLET WITHOUT NORTH ARROW			
	<b>DRAWING TITLE</b>	GRID REFERENCE	
SCALE: X/X" = 1'-0"		ARCH. SCALE	
		PAGE FIRST REFERENCED (IF APPLICABLE)	
ELEVATION BULLETS		PLANE/ELEVATION DETAIL BULLET	
	GRID REFERENCE		
ONE ELEVATION	SHEET NUMBER	GRID REFERENCE	
PHOTO BULLETS		SHEET NUMBER	
	GRID REFERENCE		
	SHEET NUMBER		
SCOPE OF WORK BULLET		SECTION BULLET	
		GRID REFERENCE ALWAYS ON TOP	
DOOR MARK BULLET			
		SHEET NUMBER	
WINDOW MARK BULLET		NORTH ARROW	
			
REVISION NOTE BULLET		COLUMN LINE BULLETS	
			
GENERAL NOTE BULLET		SPOT ELEV. BULLETS	
			
BENCHMARK BULLET			
	000.00'	TC - TOP OF CURB TG - TOP OF GRADE TW - TOP OF WALL TP - TOP OF PAVING	
***** FLOOR		NEW EXISTING	

	LARGE SCALE	SMALL SCALE
BRICK MASONRY UNIT		 PLAN, SECTION ELEVATION
CONCRETE MASONRY UNIT		 PLAN, SECTION ELEVATION
CONCRETE		 PLAN, SECTION
GYPSUM BOARD		 PLAN, SECTION ELEVATION
GRAOUTED AREA OF: COLUMN/DOOR FRAME		 PLAN, SECTION
MISCELLANEOUS ITEMS: AS NOTED ON EACH SHEET		 PLAN, SECTION, ELEVATION
BATT INSULATION		 PLAN, SECTION
FOAM INSULATION		 PLAN, SECTION
ROOF SHINGLES		 PLAN, ELEVATION
CONTINUOUS WOOD FRAMING		 PLAN, SECTION
WOOD BLOCKING		 PLAN, SECTION
PLYWOOD		 PLAN, SECTION
EXISTING BUILDING		 PLAN, SECTION



STRUCTURAL STEEL

- FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE AISC SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS, THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES AND CURRENT OSHA STANDARDS.
- WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992. STRUCTURAL TUBES SHALL CONFORM TO ASTM A500 GRADE B. ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36.
- BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM A325-N, SIZE AS PER PLAN.
- ANCHOR BOLTS, UNLESS OTHERWISE SHOWN, SHALL CONFORM TO ASTM F1554 GRADE 36.
- SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.
- ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL RECEIVE ONE COAT OF "IRONCLAD RETARDO RUST INHIBITIVE PAINT 163" (BENJAMIN MOORE) OR APPROVED EQUAL UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS. ALL STEEL SURFACES EMBEDDED IN CONCRETE SHALL NOT BE PAINTED. PREPARATION OF STEEL SURFACES SHALL MEET THE REQUIREMENTS OF THE STEEL STRUCTURES PAINTING COUNCIL (SSPC-SP1) AND THE REMOVAL OF GREASE AND OIL BY SOLVENT CLEANING (SSPC-SP1) AND THE REMOVAL OF MILL SCALE, RUST, WELD FLUX AND SLAG BY HAND TOOL CLEANING (SSPC-SP2). PRIMER SHALL BE APPLIED AT THE MANUFACTURER'S RECOMMENDED RATE BUT NOT LESS THAN ONE GALLON PER 400 SQ.FT. THEREBY DEPOSITING A DRY FILM THICKNESS OF NOT LESS THAN 1.5 MILS. ANY SCARRED AREAS SHALL BE TOUCHED UP WITH THE SAME PAINT AFTER ERECTION.
- ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS IN ACCORDANCE WITH THE CURRENT EDITION OF THE AWS STRUCTURAL WELDING CODE. WELDING ELECTRODES SHALL BE E70XX.

POST-INSTALLED ANCHORS

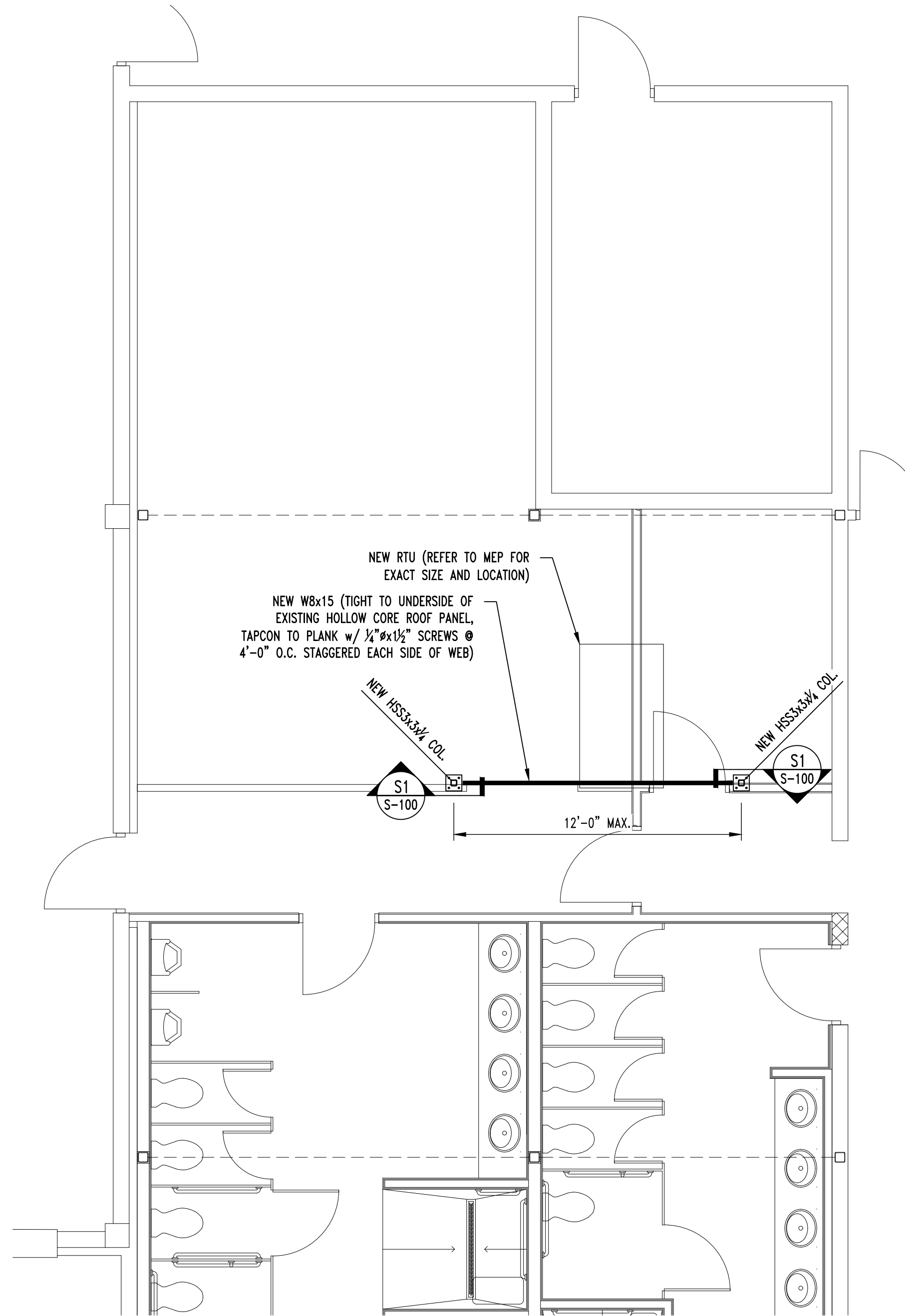
- ALL POST-INSTALLED ANCHORS SHALL MEET THE REQUIREMENTS OF THE CODE-CITED EDITION OF ACI 318, APPENDIX "D", AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UNCRACKED CONCRETE.
- EXPANSION ANCHORS HAVE BEEN DESIGNED AS HILTI KWIK BOLT TZ ANCHORS, UNLESS NOTED OTHERWISE.
- ADHESIVE ANCHORS HAVE BEEN DESIGNED TO USE HILTI HIT HY 200 ADHESIVE IN CONCRETE OR SOLID MASONRY, UNLESS NOTED OTHERWISE.
- EQUIVALENT ANCHORS MAY BE SUBMITTED FOR THE ENGINEER'S APPROVAL. SUBMITTALS ARE THE CONTRACTOR'S RESPONSIBILITY AND MUST INCLUDE EVALUATION REPORTS FROM THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS (ICBO).
- EMBEDMENT DEPTH IS DEFINED AS THE DISTANCE FROM THE SURFACE OF THE LOAD-BEARING BASE MATERIAL TO THE DEEPEST PART OF THE ANCHOR AFTER THE ANCHOR HAS BEEN DRIVEN INTO THE HOLE BUT NOT YET EXPANDED.
- ADHESIVE ANCHORS SHALL BE ACCEPTABLE FOR LONG-TERM LOADING. WHEN BASE MATERIAL TEMPERATURES ARE BELOW 40 DEG F, ONLY NON-EPOXY-BASED ADHESIVES SHALL BE USED.
- POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLANE ANCHORS. CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REINFORCING BARS. HOLES SHALL BE DRILLED AND CLEANED PER ANCHOR MANUFACTURER'S SPECIFICATIONS.
- STAINLESS STEEL ANCHORS ARE REQUIRED AT ALL PERMANENTLY EXPOSED WEATHER CONDITIONS.

SPECIAL INSPECTIONS

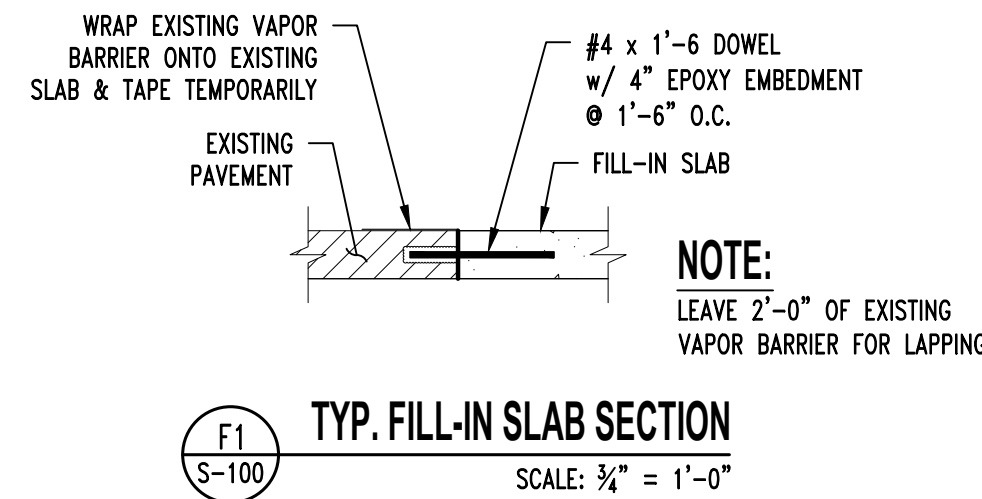
THE FOLLOWING ITEMS REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.

- BOLTS & ANCHORS EMBEDDED IN CONCRETE (PERIODIC)
- STRUCTURAL STEEL FABRICATIONS (UNLESS AISC APPROVED) (PERIODIC)
- STRUCTURAL STEEL BOLTING & WELDING (PERIODIC)
- POST INSTALLED ANCHORS IN CONCRETE (CONTINUOUS)
- MASONRY AND REINFORCING STEEL (CONTINUOUS ON CELL GROUTING / PERIODIC ON REINFORCING)

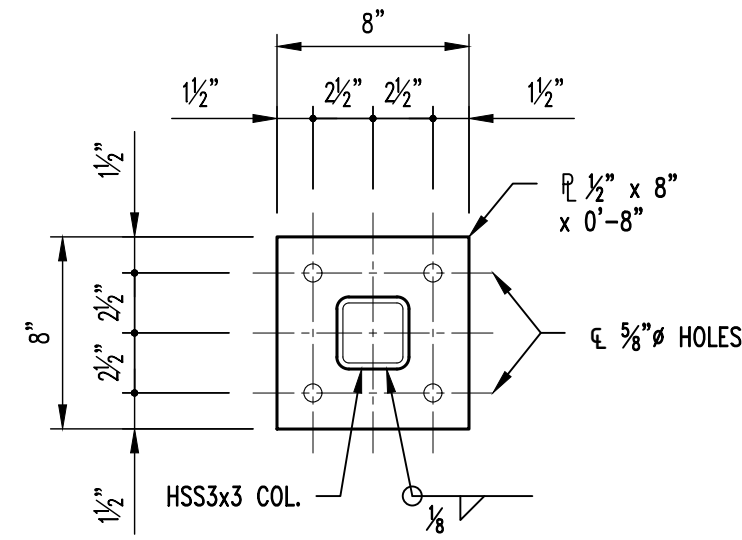
THE CONTRACTOR SHALL REQUEST SPECIAL INSPECTION OF THE ITEMS LISTED ABOVE PRIOR TO THOSE ITEMS BECOMING INACCESSIBLE AND UNOBSERVABLE DUE TO PROGRESSION OF THE WORK.



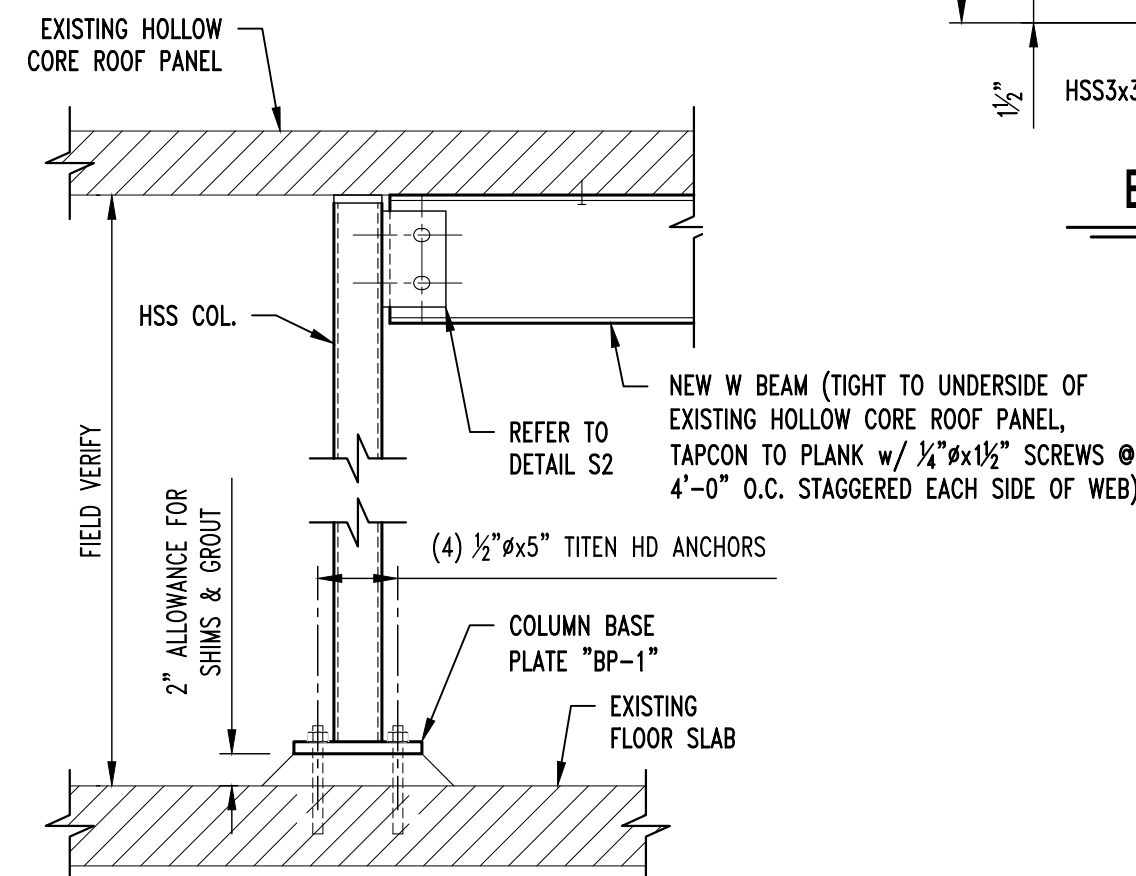
1  
S-100  
PARTIAL FLOOR PLAN  
SCALE: 1/4" = 1'-0"



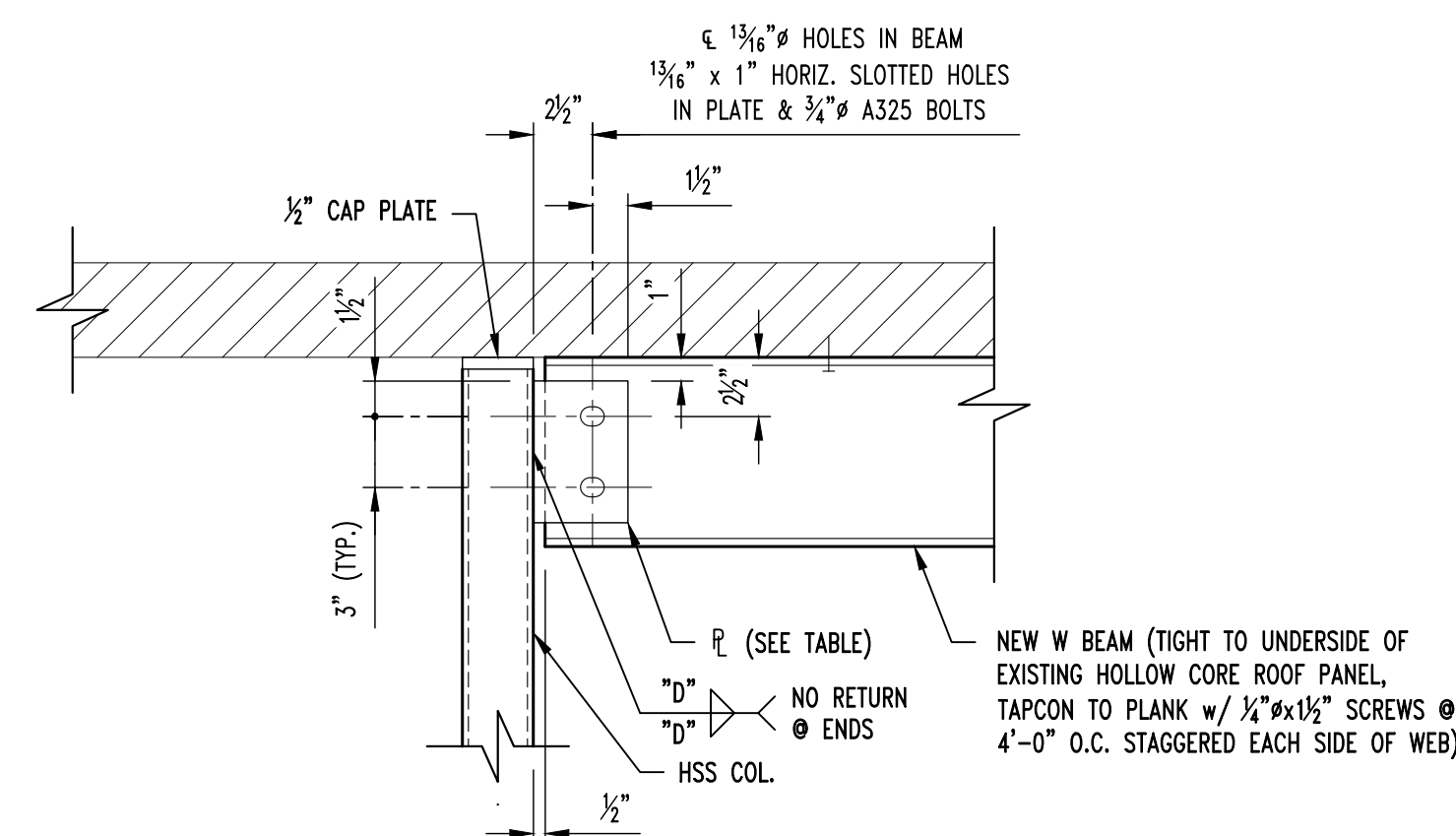
F1  
S-100  
TYP. FILL-IN SLAB SECTION  
SCALE: 3/4" = 1'-0"



BASE PLATE (BP-1)



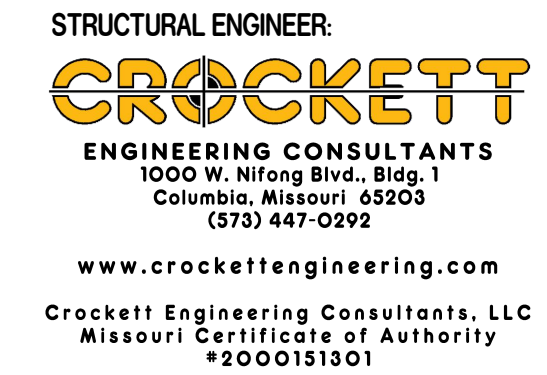
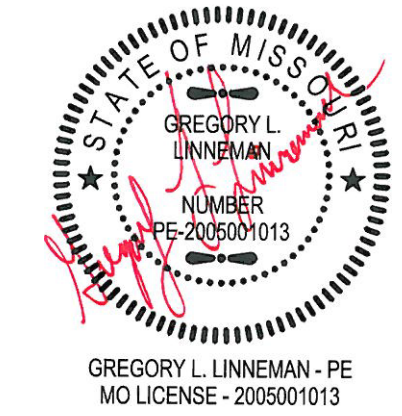
S1  
S-100  
STIFF BACK DETAIL  
SCALE: 1" = 1'-0"



S2  
S-100  
BEAM TO COLUMN SECTION  
SCALE: 1/2" = 1'-0"

BEAM SIZE	No. OF BOLTS "N"	PLATE SIZE	WELD SIZE "D"
W8	2	3/16x4x0'-6"	1/4"

STATE OF MISSOURI  
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CONSTRUCTION

LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

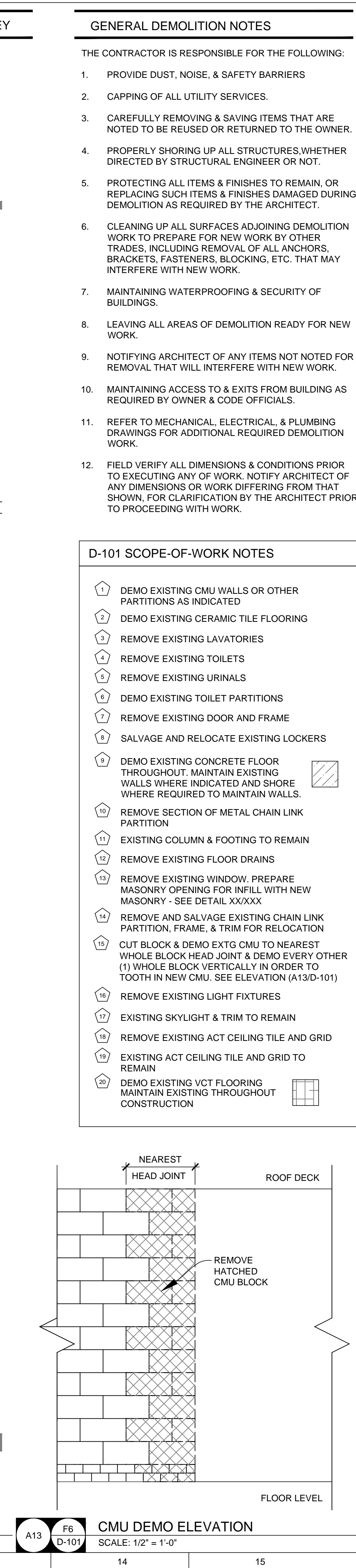
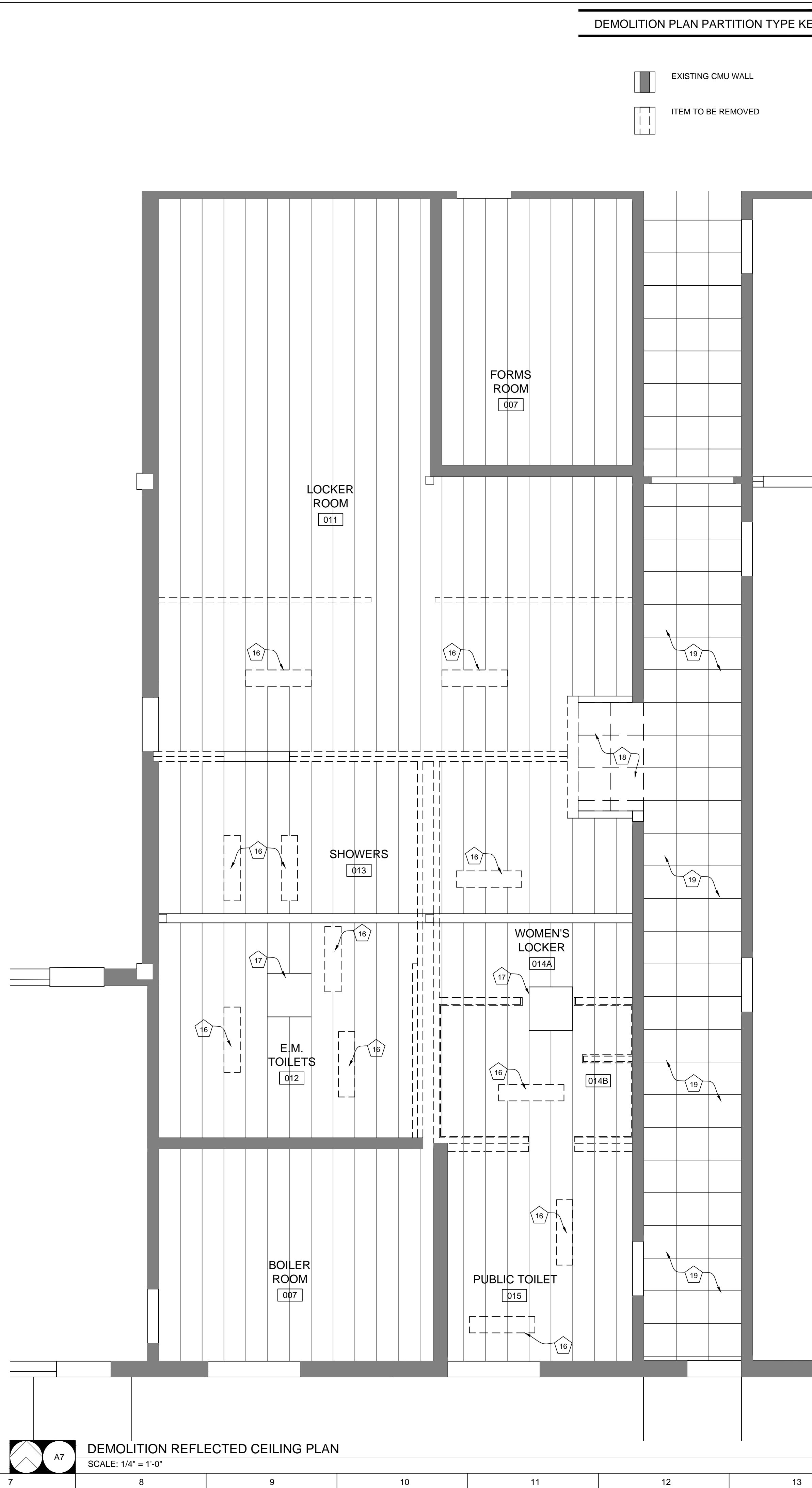
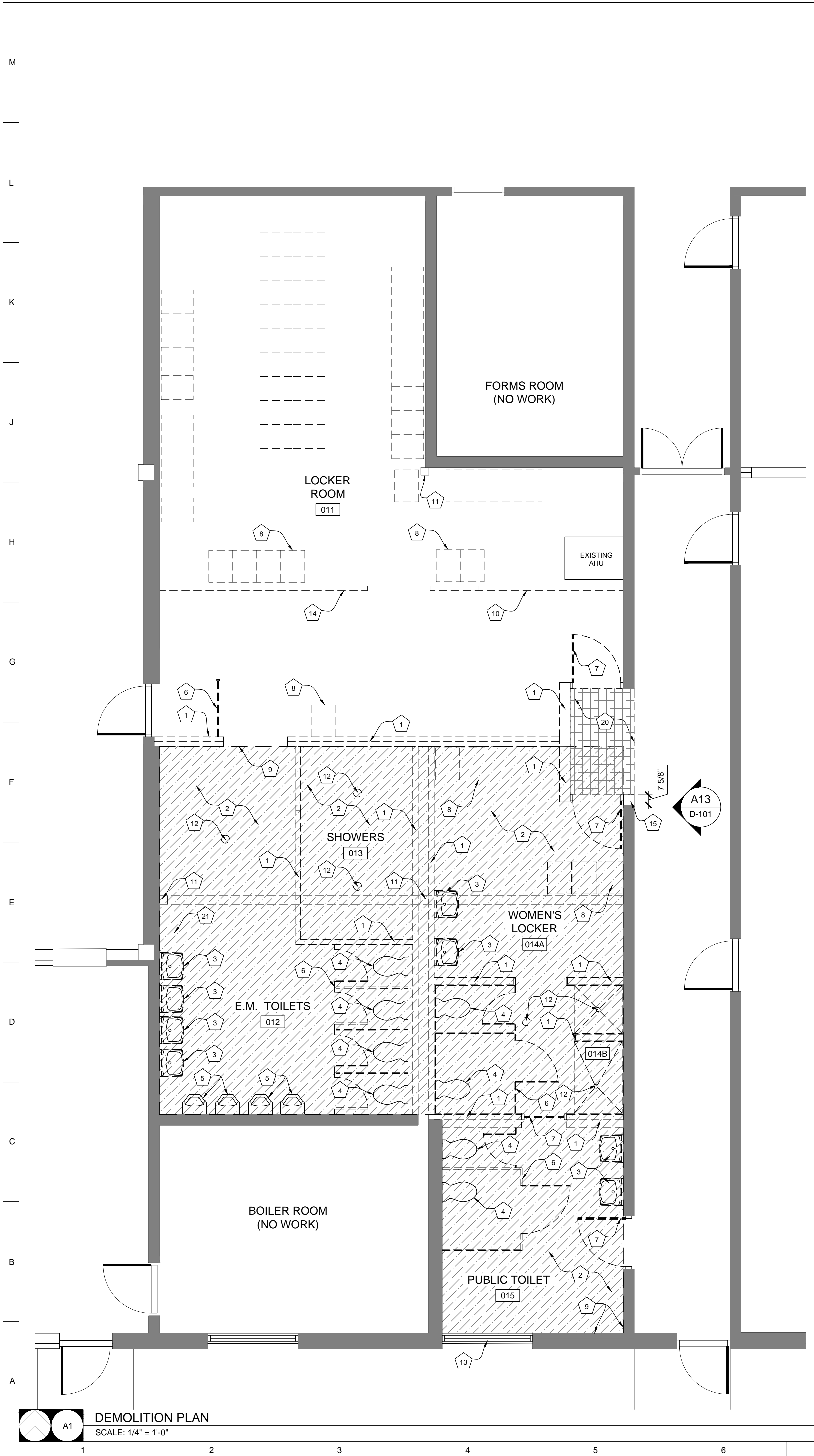
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SITE # 6290  
ASSET # 8136290001

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DATE: \_\_\_\_\_  
ISSUE DATE: 07/07/2022

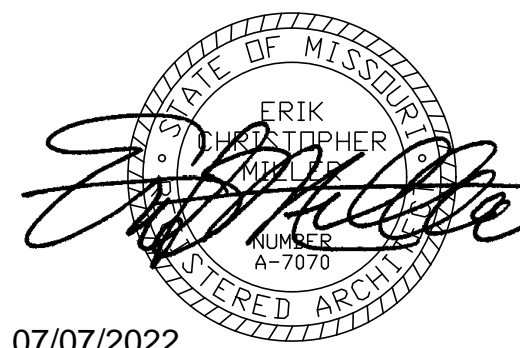
CAD DWG FILE: S-100  
DRAWN BY: RCA  
CHECKED BY: GLL  
DESIGNED BY: GLL

SHEET TITLE:  
PARTIAL FLOOR  
PLAN & DETAILS

SHEET NUMBER:  
S-100  
4 OF 19 SHEETS  
07/07/2022



STATE OF MISSOURI  
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07/07/2022



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LATRINE RENOVATION

FULTON READINESS  
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FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001



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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/07/2022

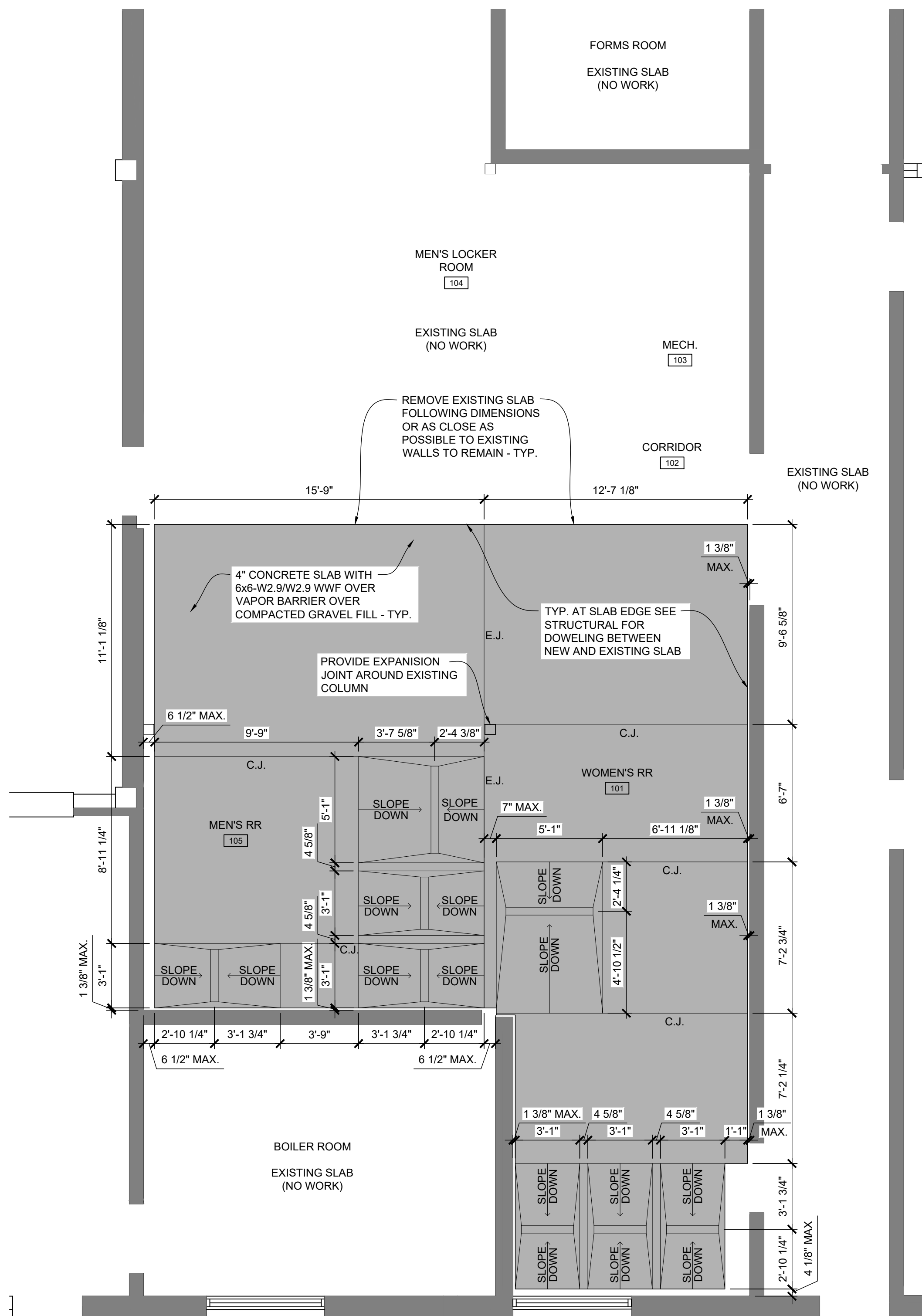
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DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
DEMO FLOOR  
PLAN & REFLECTED  
CEILING PLAN

SHEET NUMBER:  
D-101  
5 OF 19 SHEETS  
07/07/2022

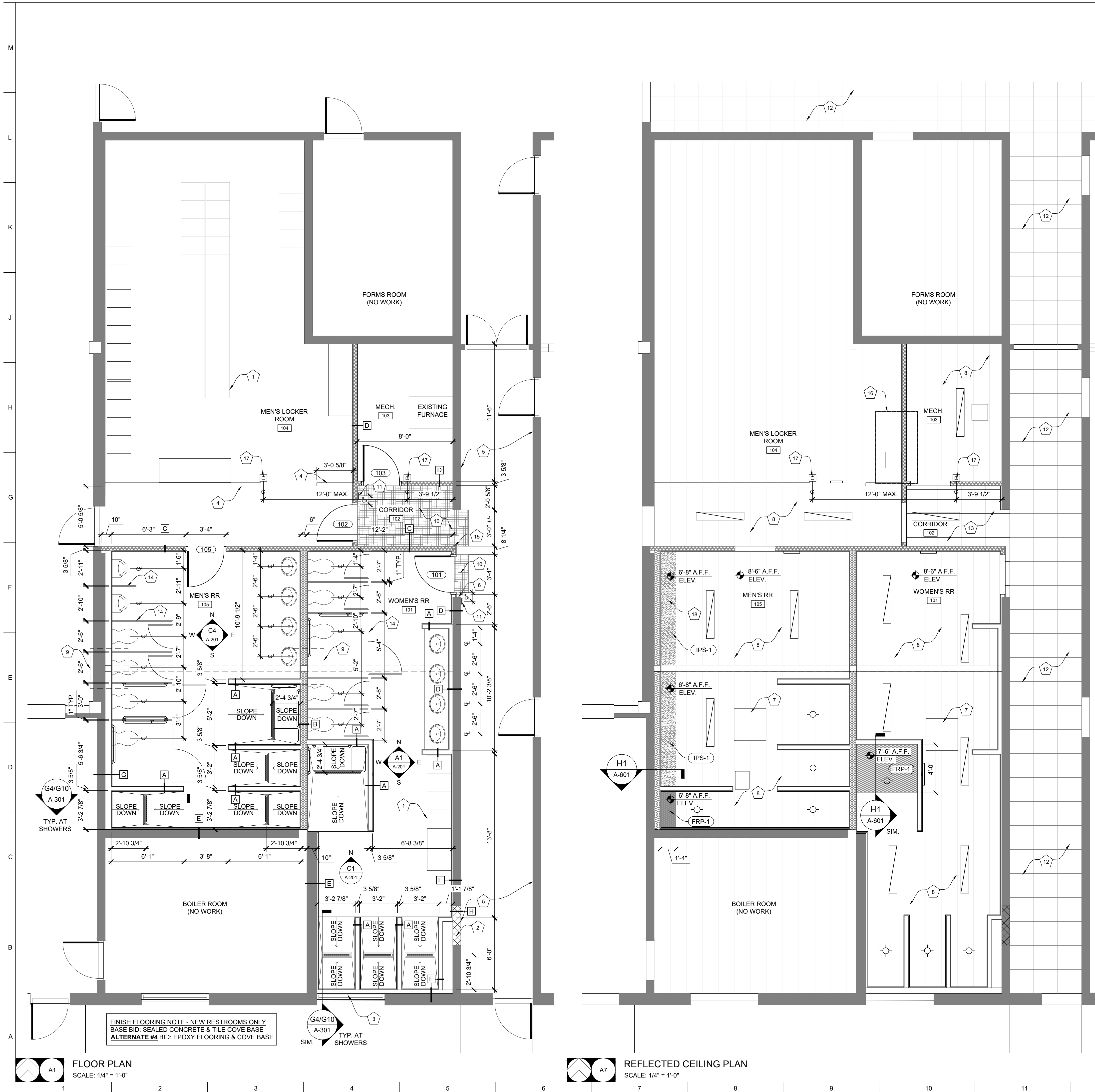
### GENERAL SLAB PLAN NOTES

- |   |   |   |
|---|---|---|
|  INDICATES NEW 4" CONCRETE SLAB<br><br> INDICATES EXISTING SLAB TO REMAIN | WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.<br><br>2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.<br><br>4. COORDINATE ALL FLOOR DRAINS AND OTHER REFERENCED MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS W/ M.E.P. | OTHERWISE - SEE FLOOR PLANS.<br><br>6. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH WORK.<br><br>7. COORDINATE ALL DIMENSIONS WITH FLOOR PLANS.<br><br>8. REFER TO STRUCTURAL S-100 FOR DETAILS. |
|---|---|---|



**SLAB PLAN**  
SCALE: 1/4" = 1'-0"



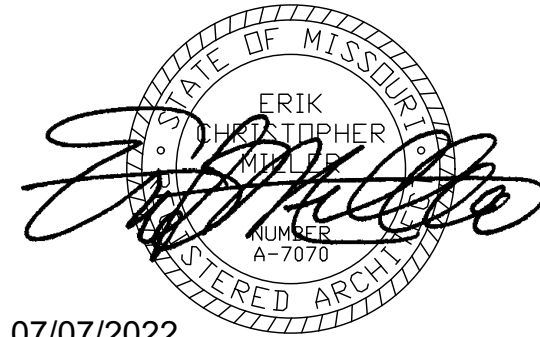


- GENERAL FLOOR PLAN NOTES**
1. FIELD VERIFY ALL DIMENSIONS & CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
  2. VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
  3. LOCATE DOOR OPENINGS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
  4. COORDINATE ALL FLOOR DRAINS AND OTHER REFERENCED MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS W/ M.E.P.
  5. COORDINATE ALL REQUIRED UTILITIES WITH EQUIPMENT MANUFACTURER.
  6. ALL DIMENSIONS ARE TO FACE OF STUD - OR MASONRY - UNLESS OTHERWISE NOTED.
  7. DO NOT SCALE DRAWINGS - WHERE DIMENSIONAL DISCREPANCIES ARE ENCOUNTERED NOTIFY ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
  8. COORDINATE HEIGHTS OF OUTLETS & SWITCHING WITH ALL ARCHITECTURAL ITEMS. SEE M/E DRAWINGS FOR LOCATIONS.

- GENERAL CEILING PLAN NOTES**
1. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SPECIFICATIONS.
  2. REFER TO MECHANICAL DRAWINGS FOR SUPPLY AND RETURN AIR DIFFUSER LOCATIONS AND HVAC SYSTEM LAYOUT.
  3. COORDINATE CEILING / SOFFIT FRAMING AND SUPPORTS WITH EXISTING STRUCTURE AND REQUIRED MECHANICAL, ELECTRICAL, AND PLUMBING DESIGN.
  4. REFER TO ROOM FINISH SCHEDULE AND LEGEND FOR ALL CEILING HEIGHTS AND FINISH REQUIREMENTS.
- FLOOR PLAN PARTITION TYPE KEY**
- |  |  |
|--|--|
|  | EXISTING CMU WALL TO REMAIN  |
|  | EXISTING CMU WALL WITH 7/8" HAT CHANNEL, 1/2" CONCRETE BOARD, AND CERAMIC TILE |
|  | 3-5/8" STEEL STUD WITH 1/2" CONCRETE BOARD AND CERAMIC TILE                    |
|  | 6" STEEL STUD WITH 1/2" CONCRETE BOARD AND CERAMIC TILE                        |
|  | NEW CMU INFILL   |

- A-101 SCOPE-OF-WORK NOTES**
1. LOCKERS BY OWNER
  2. INFILL EXISTING OPENING WITH CONCRETE MASONRY - MATCH EXISTING THICKNESS - TOOTH IN TO MAINTAIN PATTERN OF JOINTS.
  3. PAINT INTERIOR SURFACE OF EXISTING WINDOW GLASS BLACK.
  4. EXISTING CHAIN LINK PARTITION TO BE RELOCATED TO THIS AREA
  5. PAINT EXISTING WALLS AND NEW CONCRETE MASONRY INFILL TO MATCH EXISTING
  6. TOOTH IN NEW MASONRY TO ACCOMMODATE DIMENSIONS
  7. EXISTING SKYLIGHT & TRIM TO REMAIN
  8. PATCH AND PAINT EXISTING CONCRETE CEILING. SEE MEP FOR LIGHTS AND HVAC
  9. COORDINATE NEW PLUMBING BELOW FLOOR WITH EXISTING FOOTING TO REMAIN
  10. INSTALL NEW VCT FLOORING TO MATCH EXISTING - TOOTH INTO EXISTING.
  11. ACCESSIBLE RESTROOM SIGN - SEE A12/A-102 & D12/A-102 FOR DETAILS
  12. EXISTING ACOUSTIC CEILING TILE TO REMAIN, PATCH & REPAIR AS NEEDED
  13. INSTALL NEW ACOUSTIC CEILING TILE TO MATCH EXISTING - ALIGN GRID WITH EXISTING ACOUSTIC CEILING TILE
  14. INSTALL OVERHEAD BRACED TOILET PARTITIONS  
BASE BID: METAL  
**ALTERNATE #3** BID: HDPE
  15. INSTALL CORNER GUARD
  16. **ALTERNATE #2** BID: OAP UNIT ON ROOF ABOVE. SEE H5/A-601 FOR FLASHING DETAIL. SEE STRUCTURAL AND MEP.
  17. **ALTERNATE #2** BID: NEW STEEL COLUMNS AND BEAM ABOVE TO SUPPORT NEW OAP UNIT. SEE STRUCTURAL AND MEP.
  18. CONTRACTOR TO PROVIDE AND INSTALL FOUR (4) ACCESS PANELS IN SOFFIT AS SPECIFIED - FINAL LOCATIONS TO BE DETERMINED ON SITE. SEE F1/A-201 FOR APPROX. LOCATIONS.

STATE OF MISSOURI  
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07/07/2022

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Peckham & Wright Architects an Architectural Corporation  
Missouri State Certificate of Authority No. 000244

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FACILITIES  
MANAGEMENT,  
DESIGN AND  
CONSTRUCTION

LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

REVISION:  
DATE:  
REVISION:  
DATE:  
REVISION:  
DATE:  
ISSUE DATE: 07/07/2022

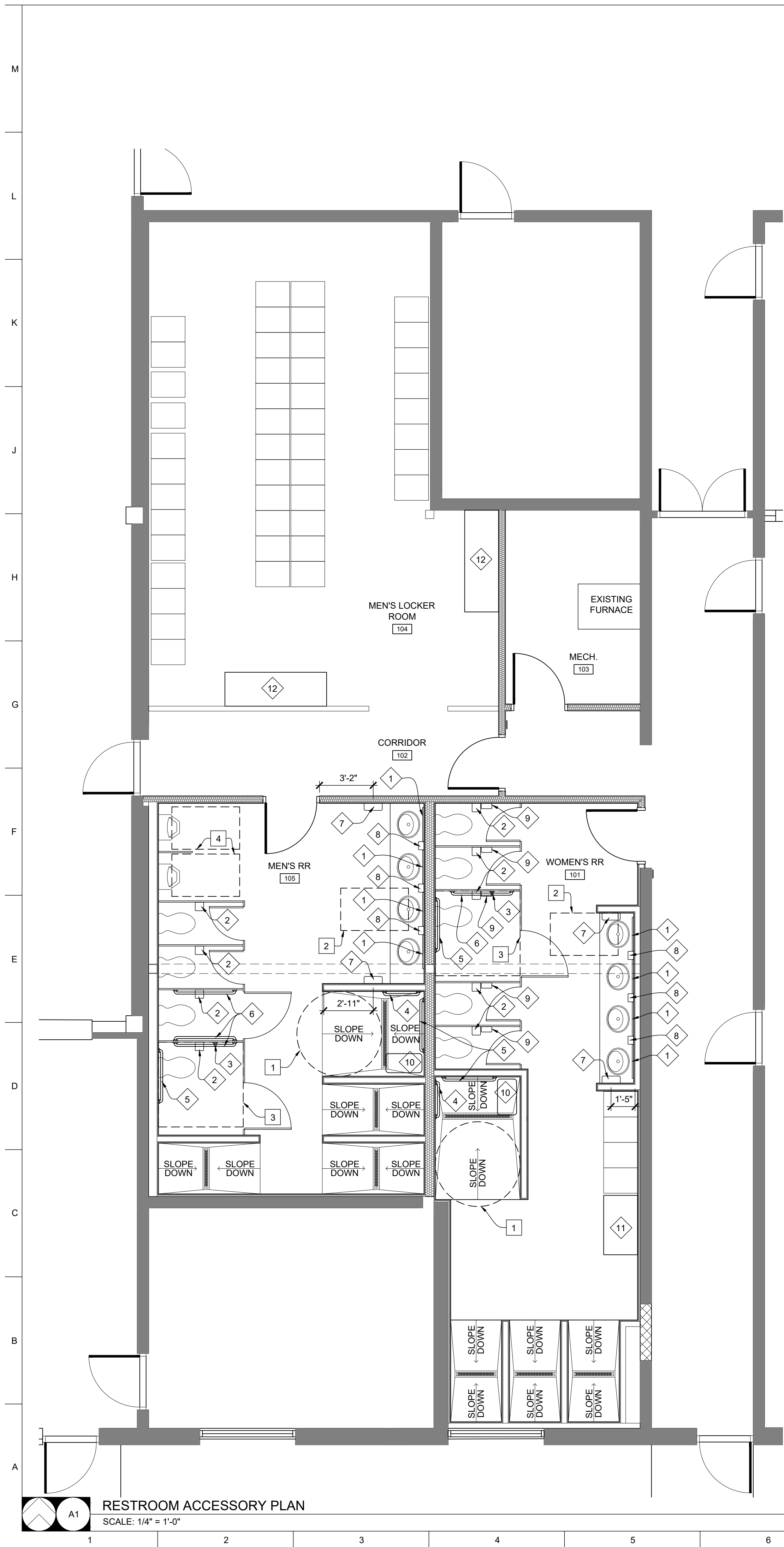
CAD DWG FILE: A-101  
DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
**FLOOR PLAN &  
REFLECTED  
CEILING PLAN**

SHEET NUMBER:

**A-101**

7 OF 19 SHEETS  
07/07/2022

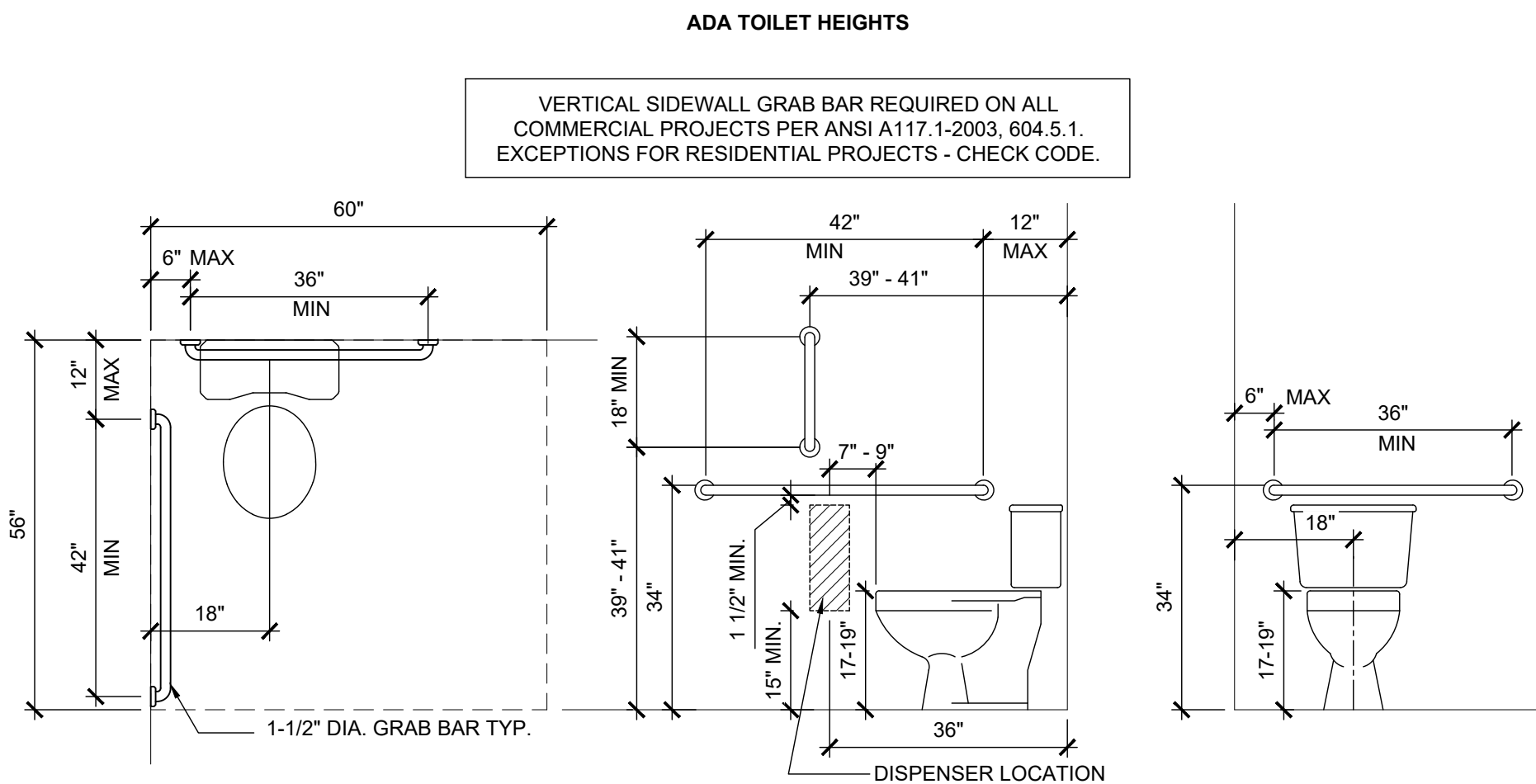


ACCESSIBLE CLEAR FLOOR SPACE REQUIREMENTS				
NOTE	ITEM			
1	5'-0" DIAMETER CLEAR FLOOR TURNING SPACE			
2	30" X 48" CLEAR FLOOR SPACE CENTERED WITH SINK/LAVATORY FOR PARALLEL APPROACH			
3	56" X 60" MIN. CLEAR FLOOR SPACE AROUND WATER CLOSET			
4	30" X 48" CLEAR FLOOR SPACE CENTERED ON URINAL			

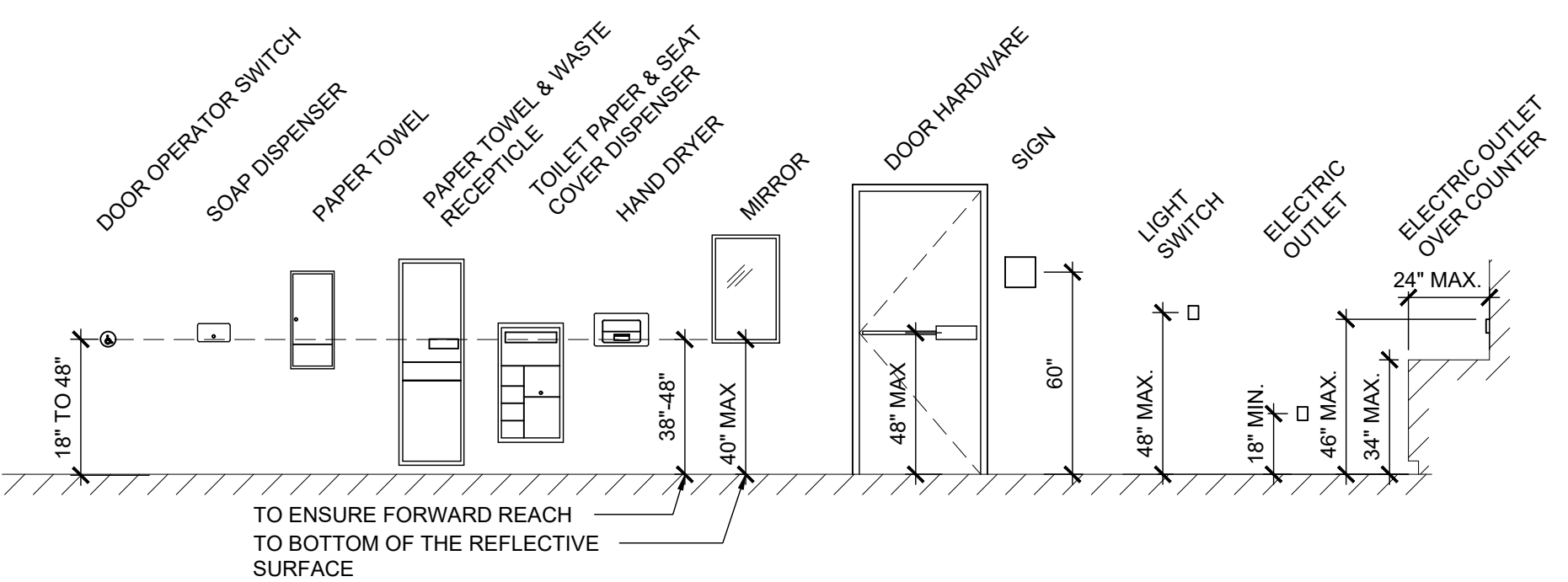
RESTROOM ACCESSORY SCHEDULE				
NOTE	ITEM	PROVIDED BY:	INSTALLED BY:	MODEL*
1	(24"x36") 1/4" TEMPERED GLASS MIRROR	PBC	IBC	BOBRICK B-2908 2436
2	TOILET PAPER DISPENSER	PBO	IBC	--
3	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 18
4	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 24
5	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 36
6	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 42
7	PAPER TOWEL DISPENSER	PBO	IBC	--
8	SOAP DISPENSER	PBO	IBC	MVE F-619A
9	SANITARY NAPKIN DISPOSAL	PBC	IBC	BOBRICK B-270
10	FOLDING SHOWER SEAT	PBC	IBC	BOBRICK B-5193
11	BENCH	PBC	IBC	SCRANTON
12	BENCH	PBO	IBC	--

\*MODEL PROVIDED AS BASIS OF DESIGN - SEE SPECIFICATIONS  
PROVIDE WALL BLOCKING / REINFORCING AS REQUIRED FOR ACCESSORY INSTALLATION AND MOUNTING.

- PBO = PROVIDED BY OWNER
- PBC = PROVIDED BY CONTRACTOR
- IBC = INSTALLED BY CONTRACTOR

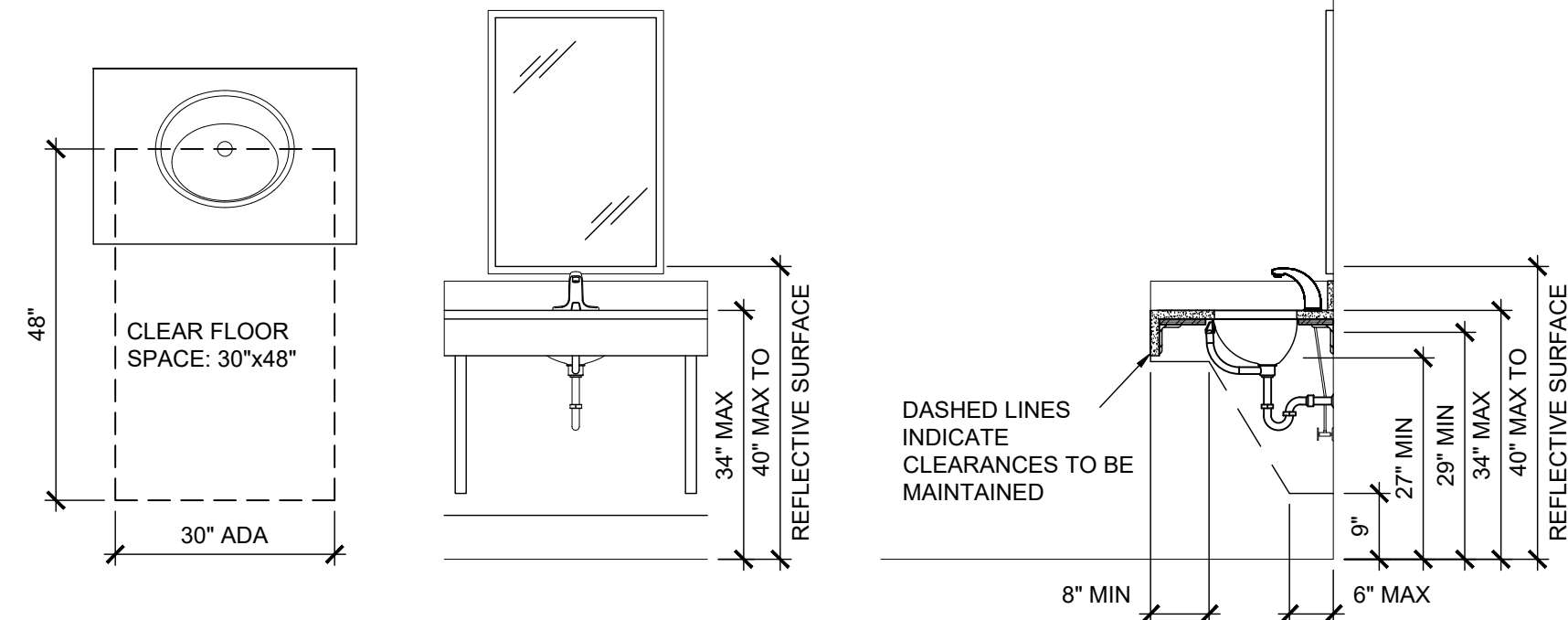


D7 TYPICAL A.D.A. MOUNTING HEIGHTS AT TOILETS  
SCALE: 1/2" = 1'-0"

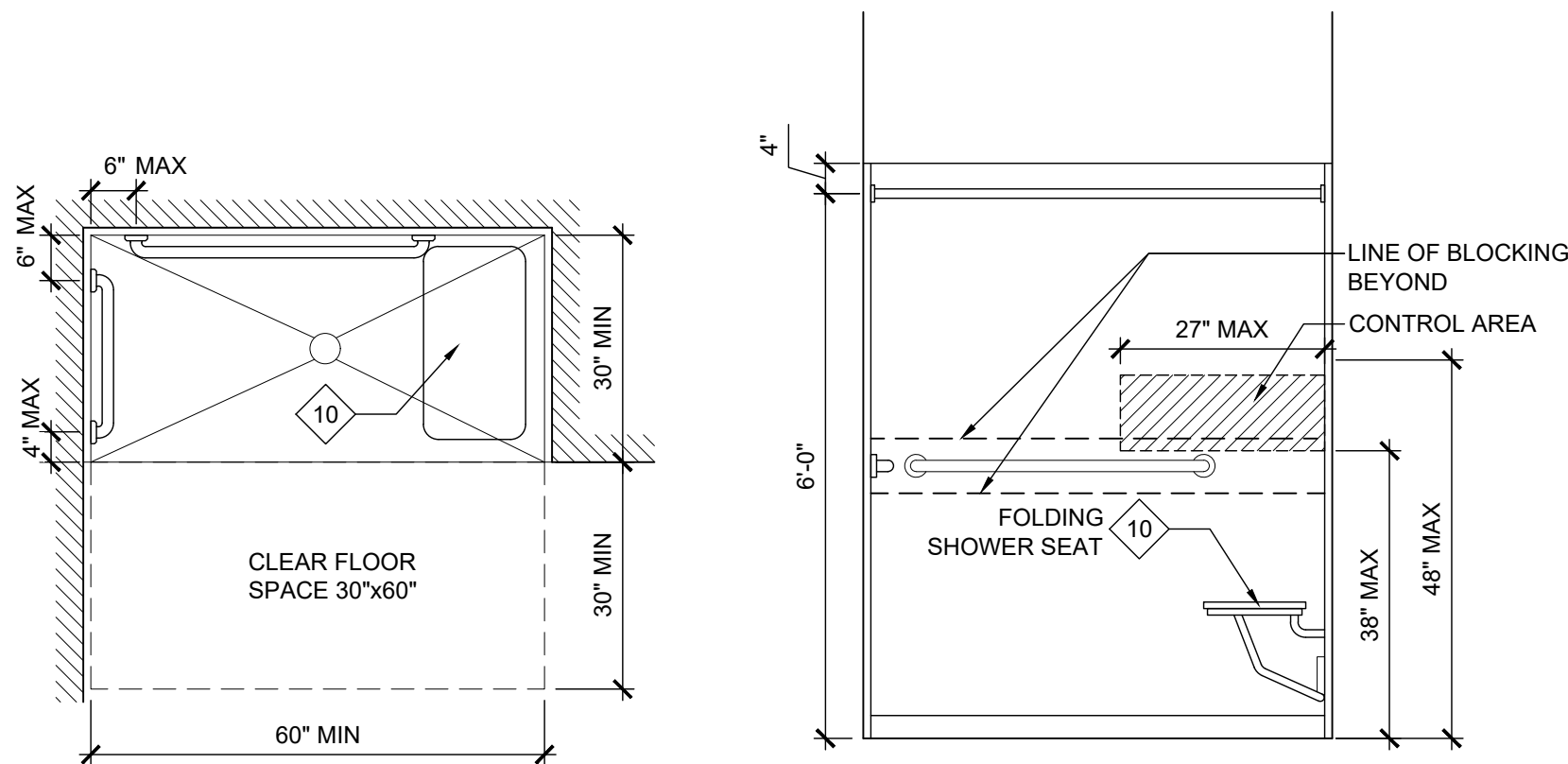


A7 TYPICAL A.D.A. MOUNTING HEIGHTS  
SCALE: 1/4" = 1'-0"

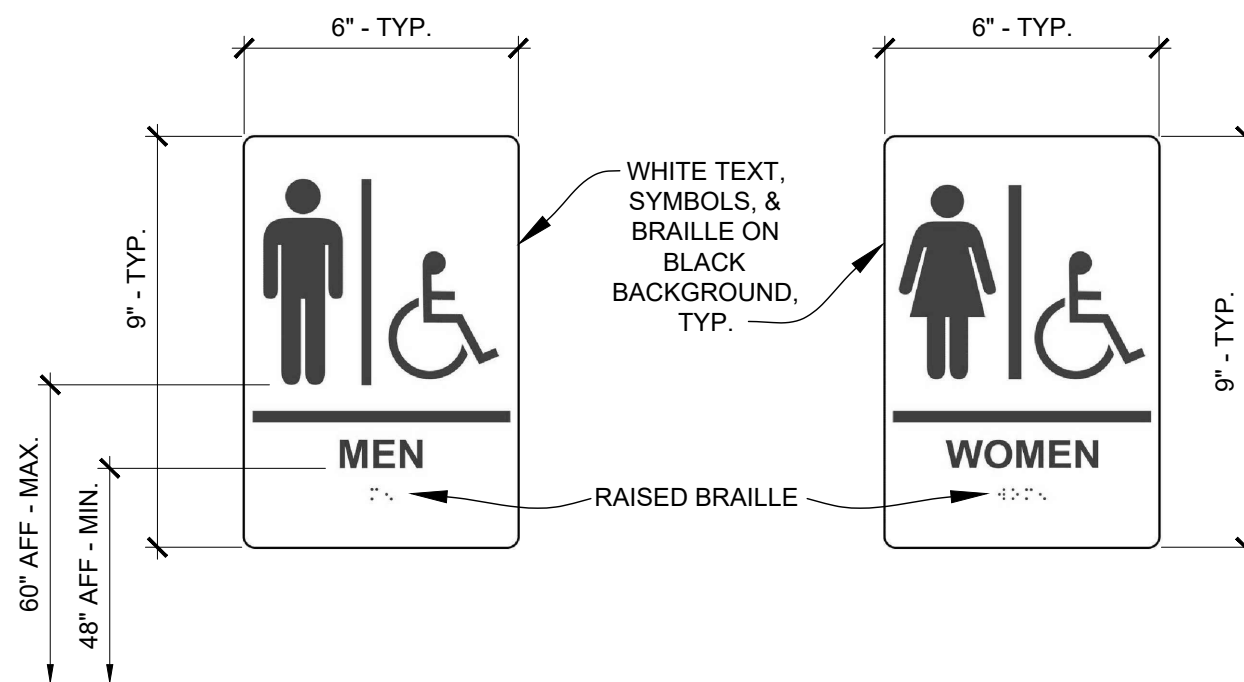
ADA LAVATORY HEIGHTS



K11 TYPICAL A.D.A. MOUNTING HEIGHTS AT LAVATORIES  
SCALE: 1/2" = 1'-0"

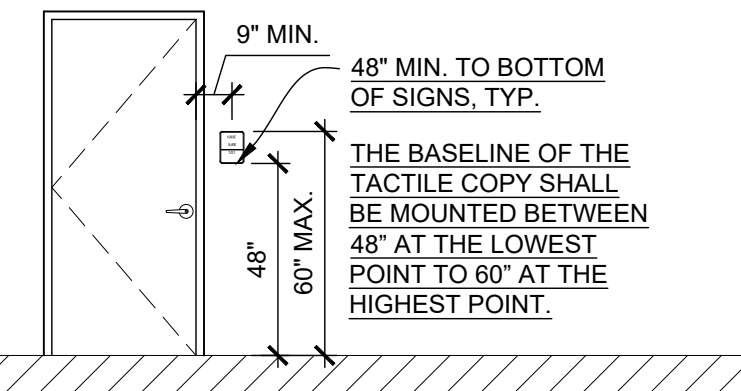
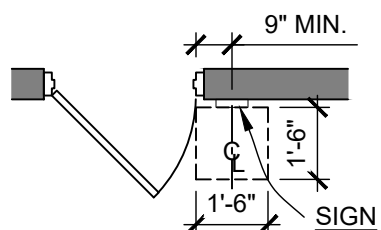


G11 TYPICAL A.D.A. ROLL-IN SHOWER WITH SEAT  
SCALE: 1/2" = 1'-0"



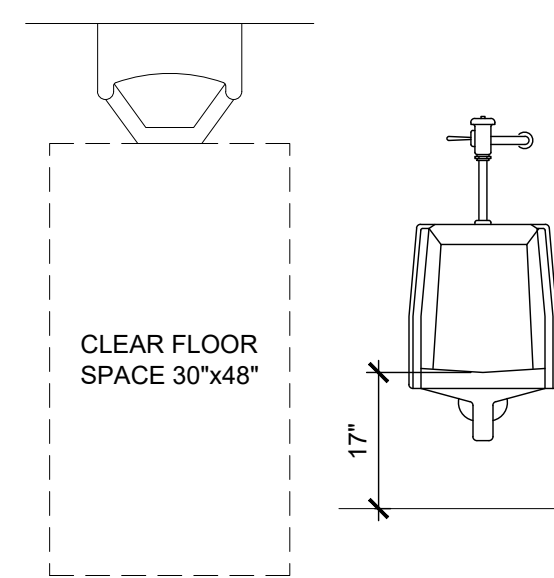
D12 ACCESSIBLE RESTROOM SIGNS  
SCALE: N.T.S.

SIGNAGE AT SINGLE LEAF DOORS:  
SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE.

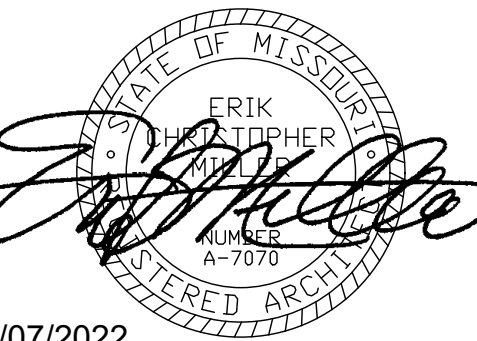


A12 TYPICAL SIGN MOUNTING DETAIL  
SCALE: 1/4" = 1'-0"

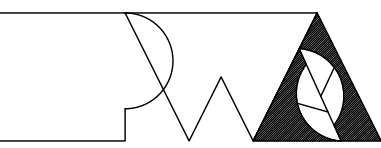
ADA URINAL HEIGHTS



A14 TYPICAL A.D.A. URINALS  
SCALE: 1/2" = 1'-0"



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Columbia, Missouri 65203  
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CAD DWG FILE: A-102  
DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

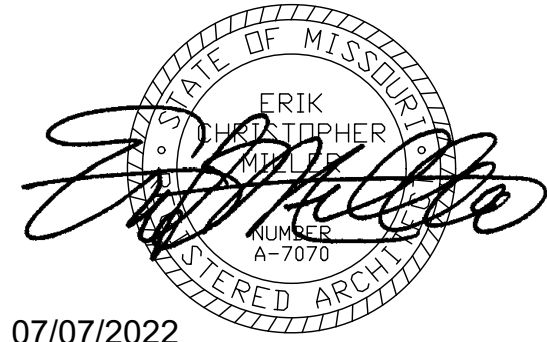
SHEET TITLE:  
ACCESSORY PLAN  
& ADA DETAILS

SHEET NUMBER:

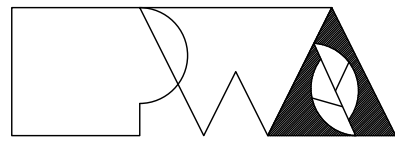
A-102

8 OF 19 SHEETS  
07/07/2022





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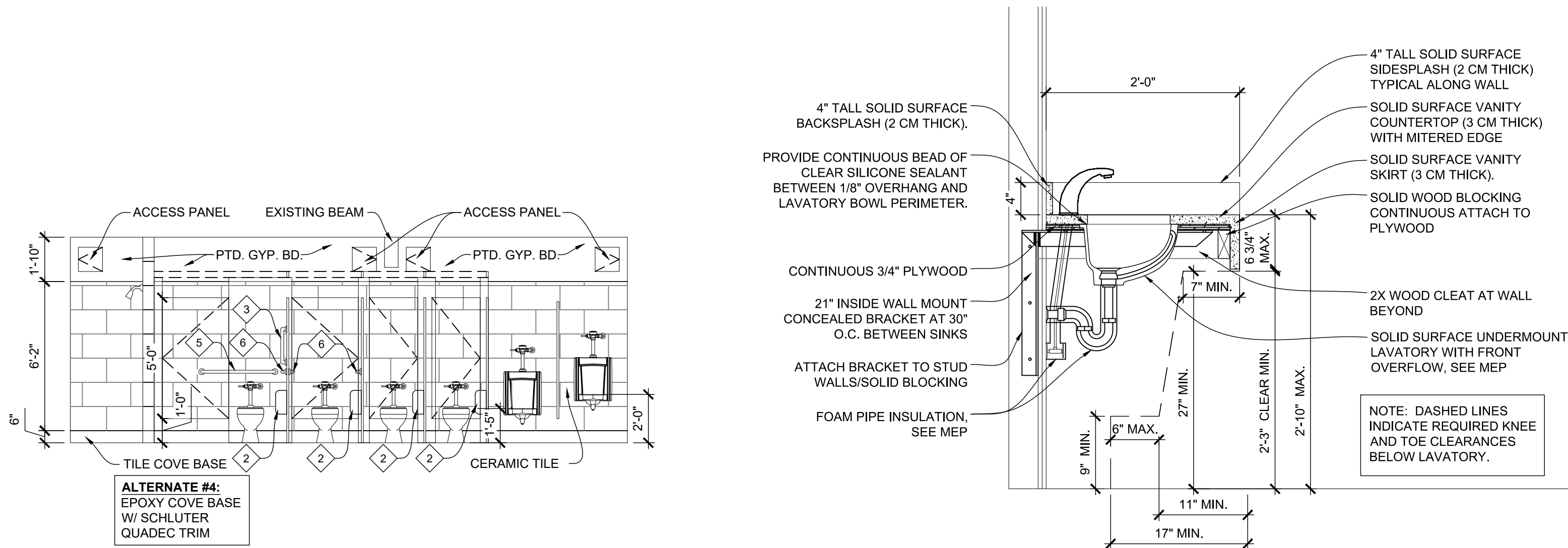
GENERAL ELEVATION NOTES

- SEE WALL SECTIONS FOR ADDITIONAL DETAILS, MATERIALS, NOTES, AND DIMENSIONS.
- SEE SITE PLAN FOR EXACT FINISH GRADE ELEVATIONS.
- SEE SITE PLAN FOR RETAINING WALLS, SIDEWALKS & SLABS, DETAILS, LOCATIONS AND DIMENSIONS.
- SEE WALL SECTIONS FOR APPROPRIATE BRICK LEDGES. BRICK LEDGES TO BE BELOW FINAL GRADE. MAKE FIELD ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THS W/ FIELD CONDITIONS.

RESTROOM ACCESSORY SCHEDULE

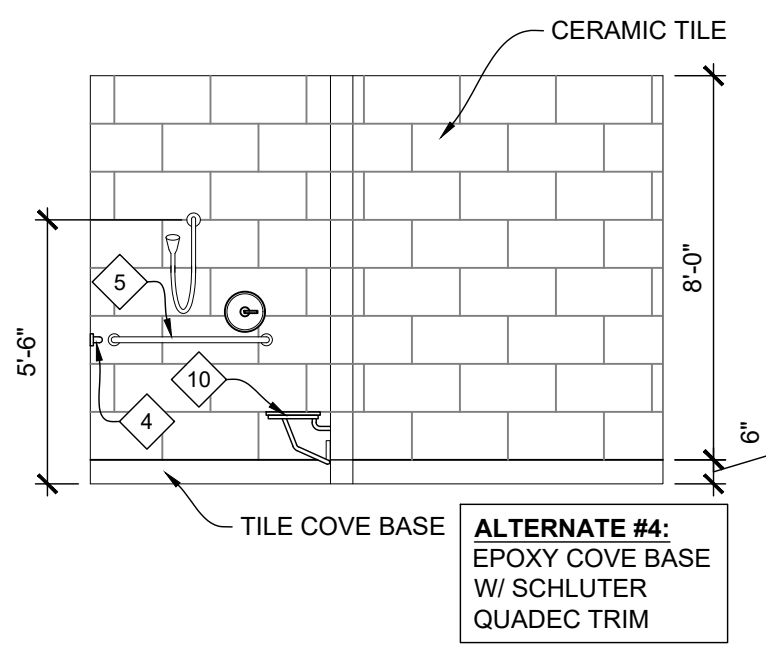
NOTE	ITEM	PROVIDED BY:	INSTALLED BY:	MODEL*	REMARKS
1	(24"X36") 1/4" TEMPERED GLASS MIRROR	PBC	IBC	BOBRICK B-2908 2436	
2	TOILET PAPER DISPENSER	PBO	IBC	--	TO BE SELECTED BY OWNER
3	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 18	
4	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 24	
5	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 36	
6	GRAB BAR	PBC	IBC	BOBRICK B-6806 x 42	
7	PAPER TOWEL DISPENSER	PBO	IBC	--	TO BE SELECTED BY OWNER
8	SOAP DISPENSER	PBO	IBC	MVE F-619A	
9	SANITARY NAPKIN DISPOSAL	PBC	IBC	BOBRICK B-270	
10	FOLDING SHOWER SEAT	PBC	IBC	BOBRICK B-5193	
11	BENCH	PBC	IBC	SCRANTON	
12	BENCH	PBO	IBC	--	TO BE SELECTED BY OWNER

\*MODEL PROVIDED AS BASIS OF DESIGN - SEE SPECIFICATIONS  
PROVIDE WALL BLOCKING / REINFORCING AS REQUIRED FOR ACCESSORY INSTALLATION AND MOUNTING.  
• PBO = PROVIDED BY OWNER  
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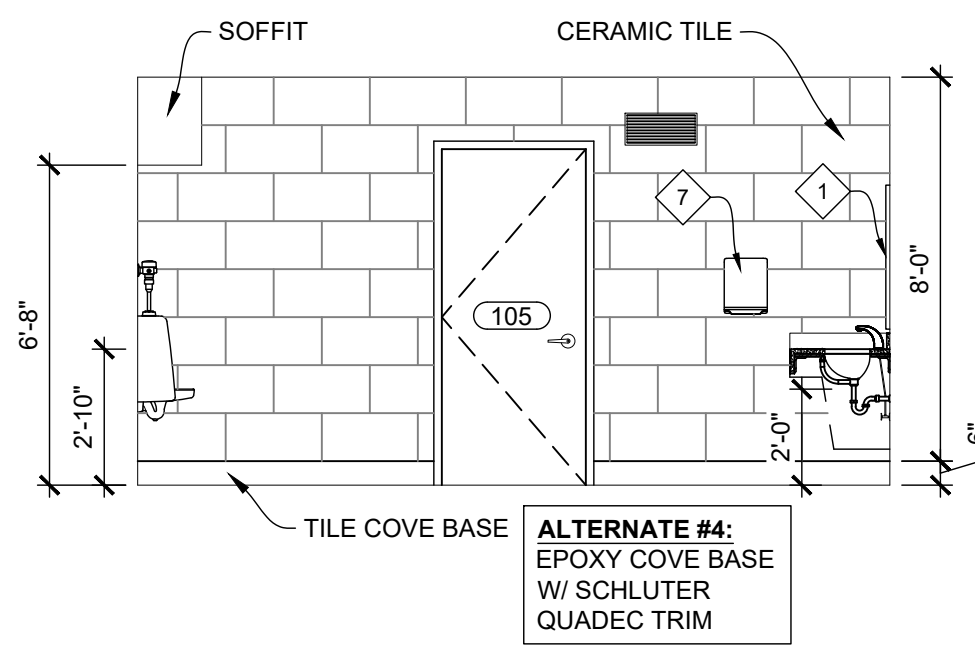


F1 E2  
A-101  
**MEN'S RR - WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

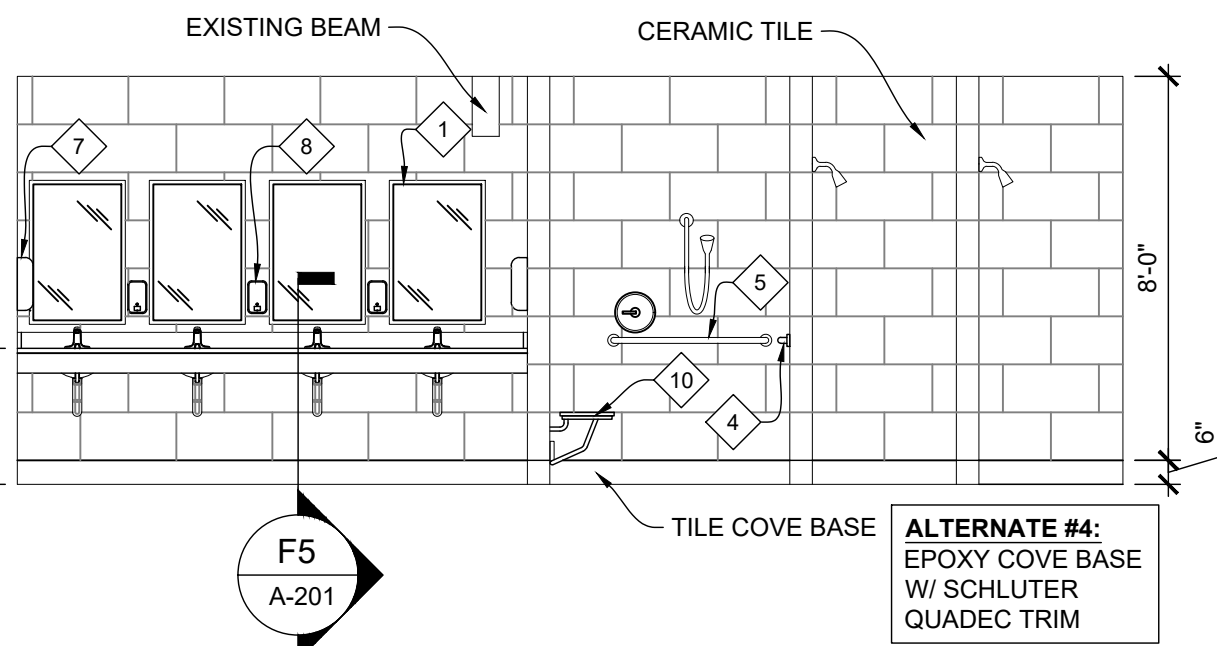
F5 A12  
A-201  
**VANITY DETAIL**  
SCALE: 1" = 1'-0"



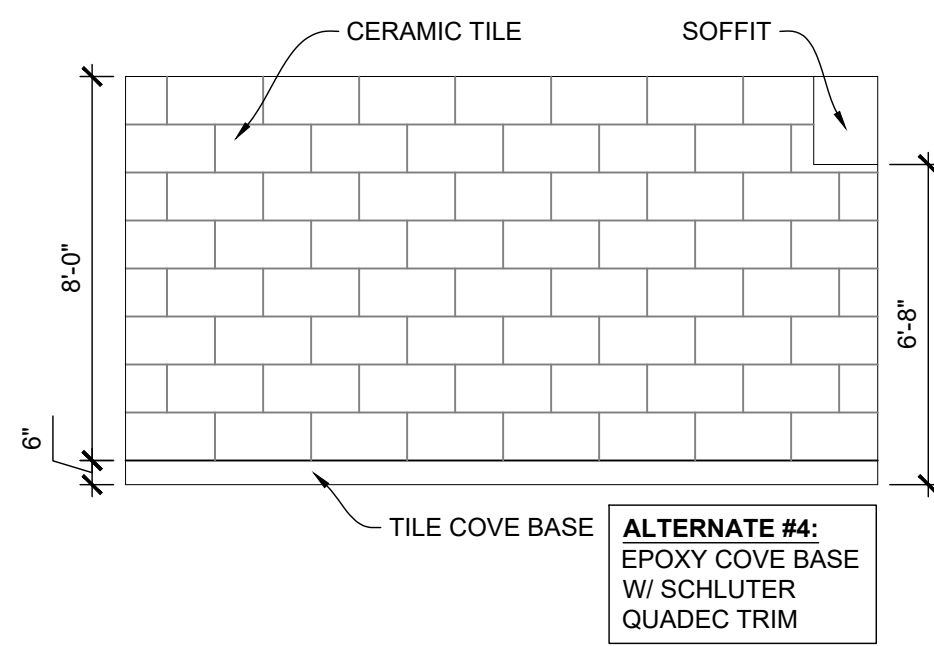
C1 C4  
A-101  
**WOMEN'S RR - SOUTH SHOWER ELEVATION**  
SCALE: 1/4" = 1'-0"



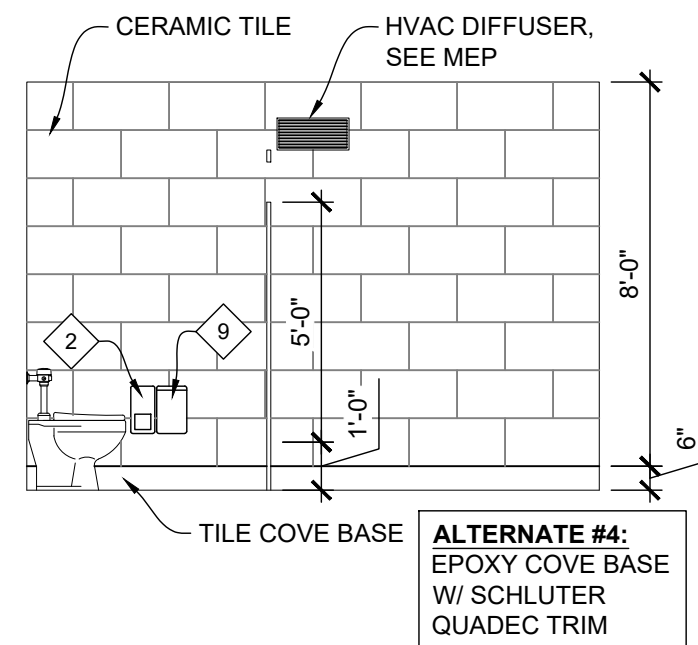
C4 E2  
A-101  
**MEN'S RR - NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



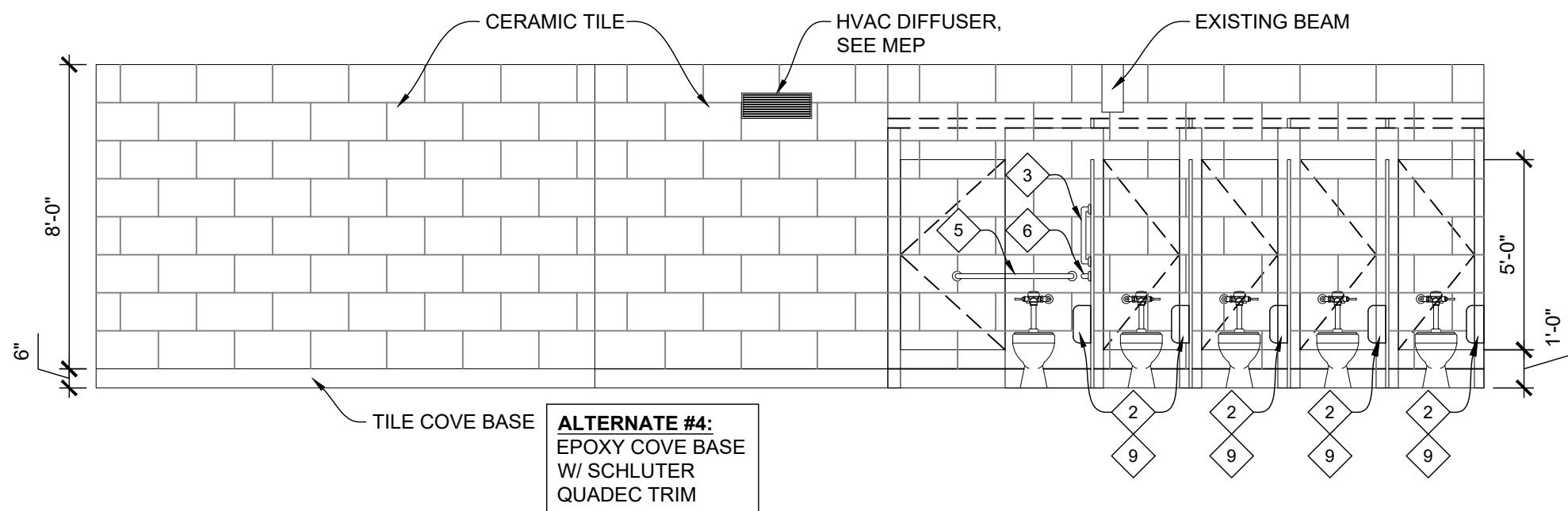
C7 E2  
A-101  
**MEN'S RR - EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



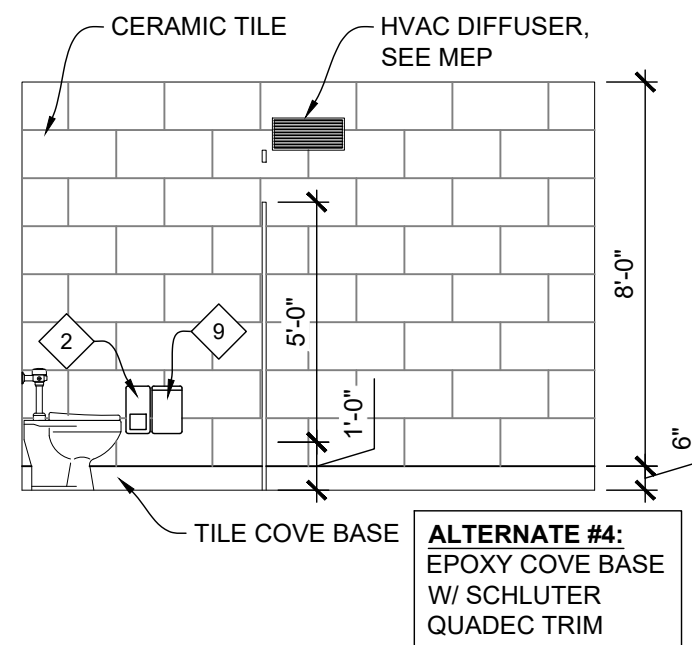
C11 E2  
A-101  
**MEN'S RR - SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



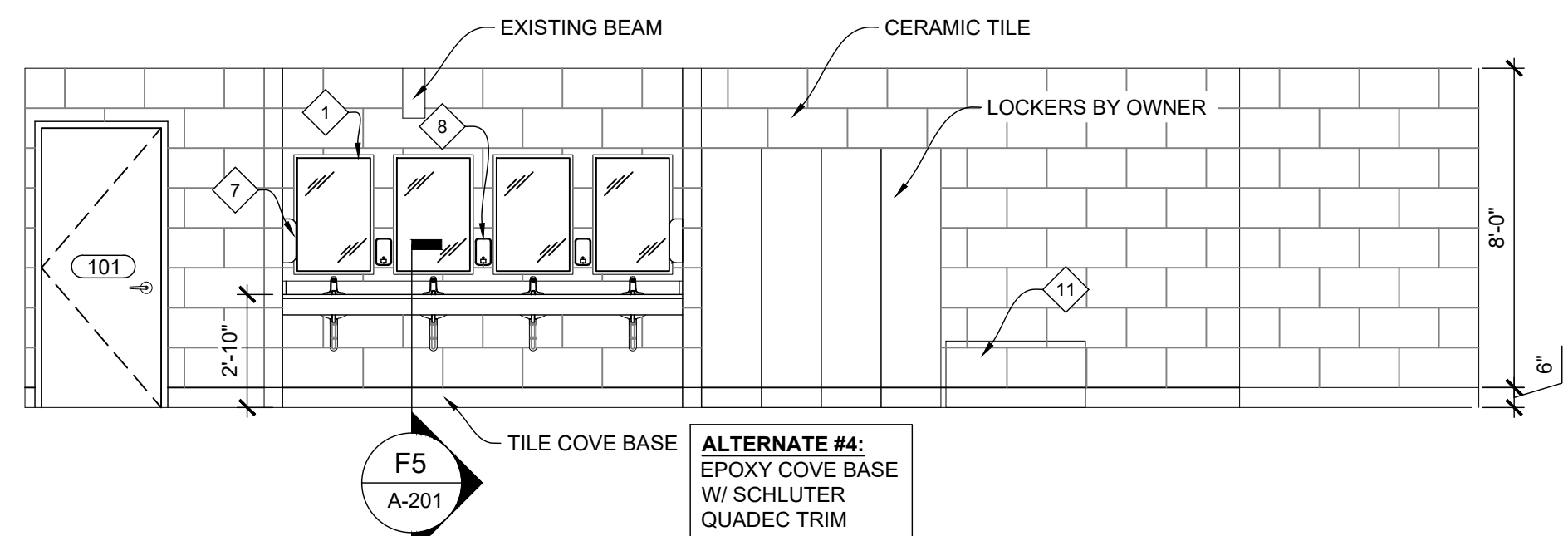
A1 D4  
A-101  
**WOMEN'S RR - NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"



A3 D4  
A-101  
**WOMEN'S RR - EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



A8 D4  
A-101  
**WOMEN'S RR - SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"



A11 D4  
A-101  
**WOMEN'S RR - WEST ELEVATION**  
SCALE: 1/4" = 1'-0"

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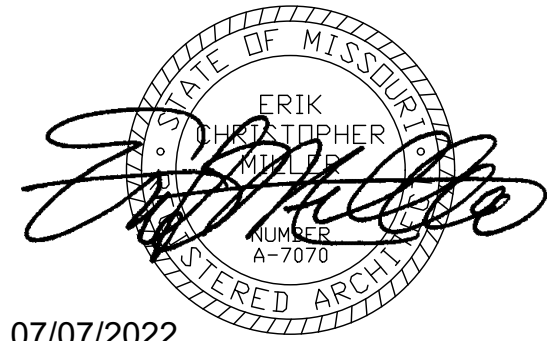
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DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
ELEVATIONS &  
DETAILS

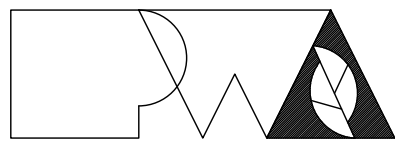
SHEET NUMBER:

A-201

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07/07/2022



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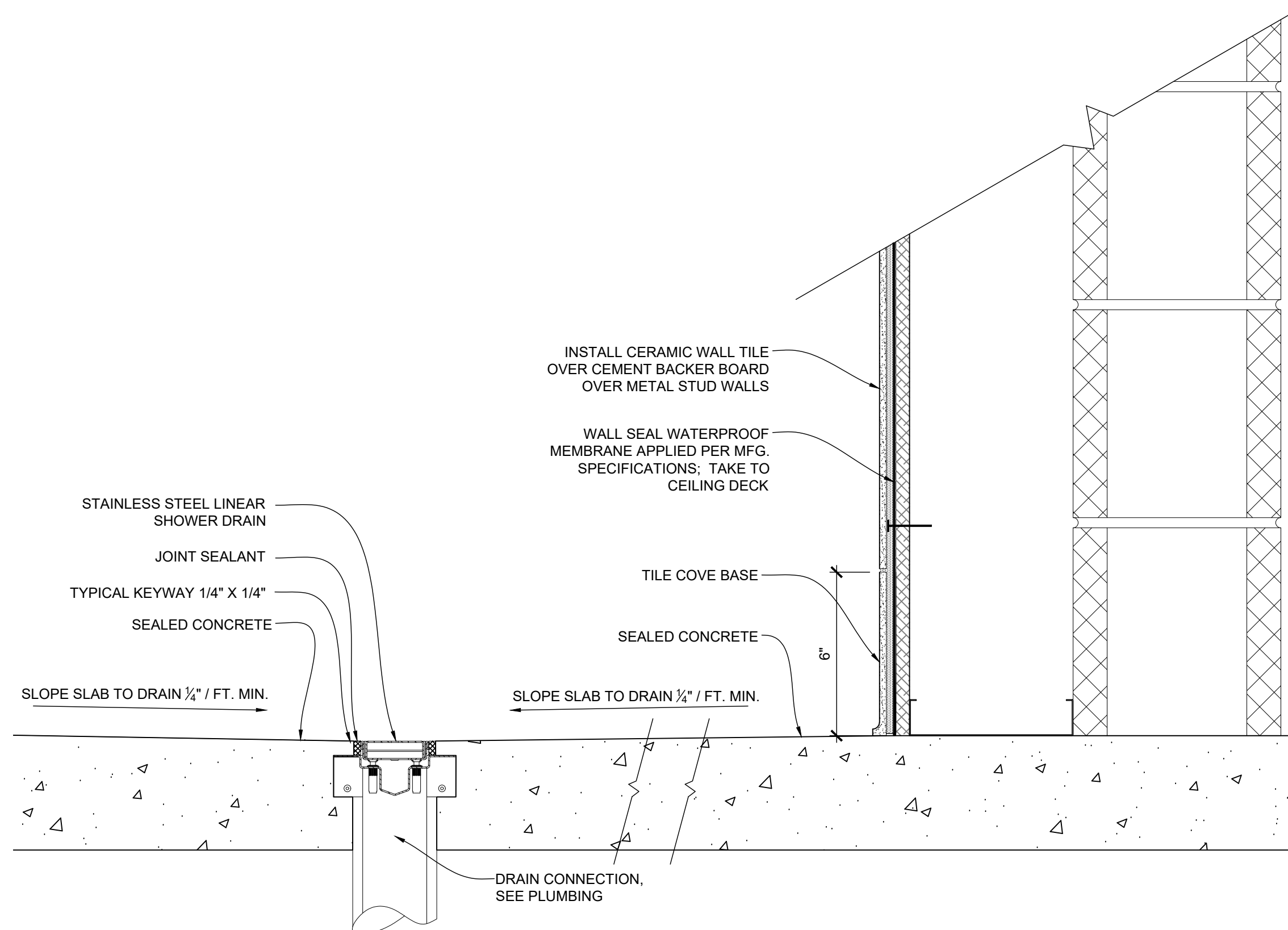
CAD DWG FILE: A-301  
DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
**PARTITION TYPES  
& DETAILS**

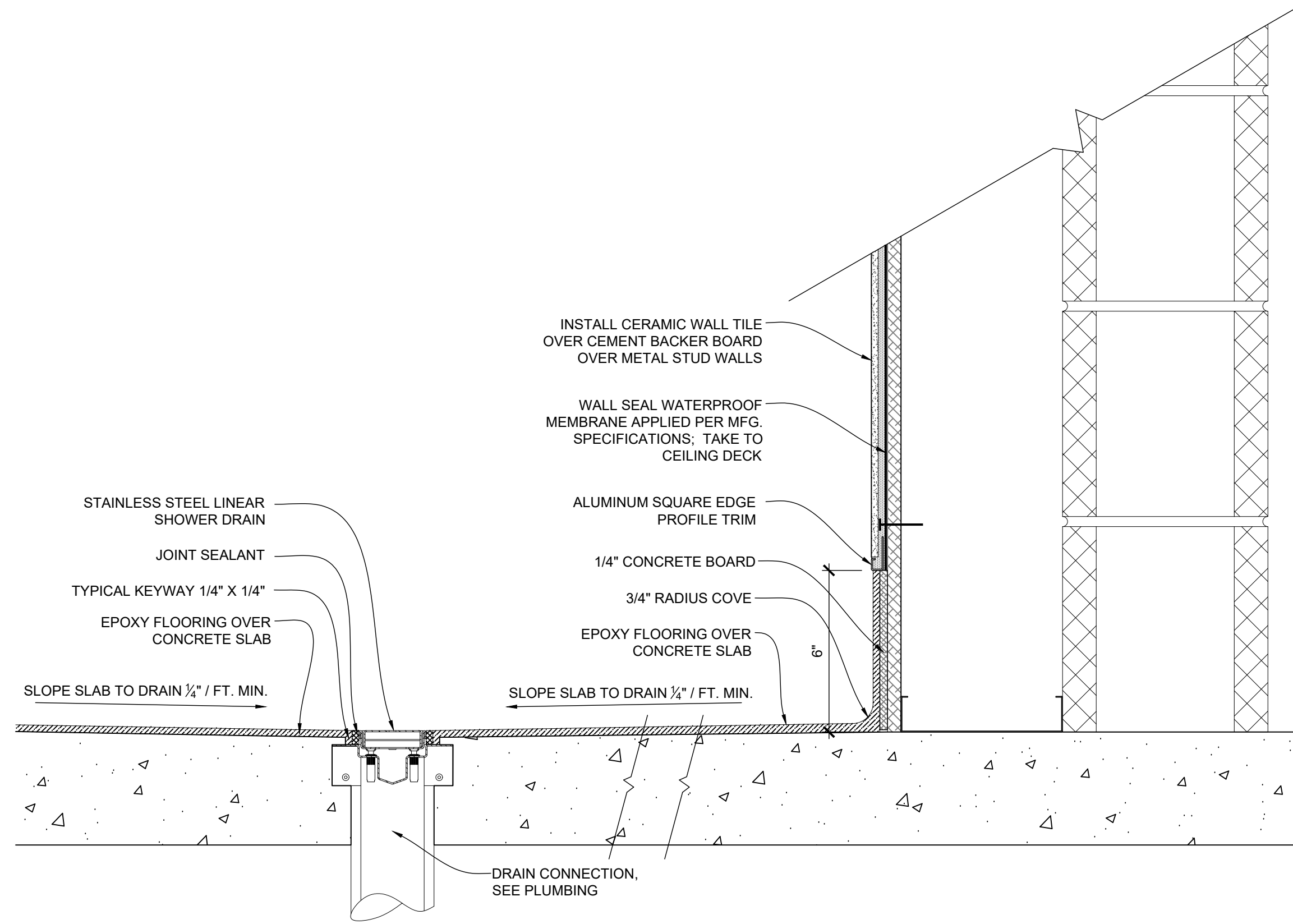
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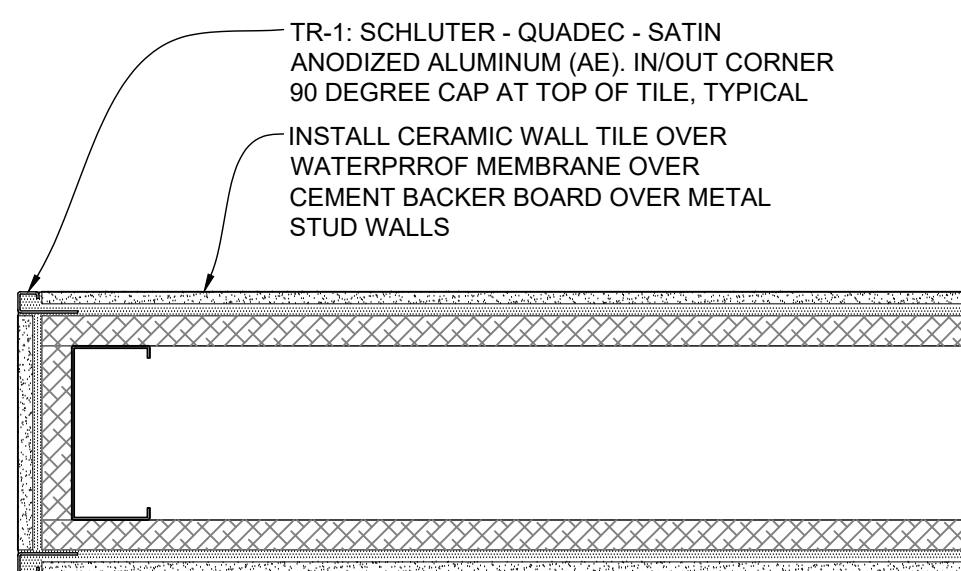
10 OF 19 SHEETS  
07/07/2022



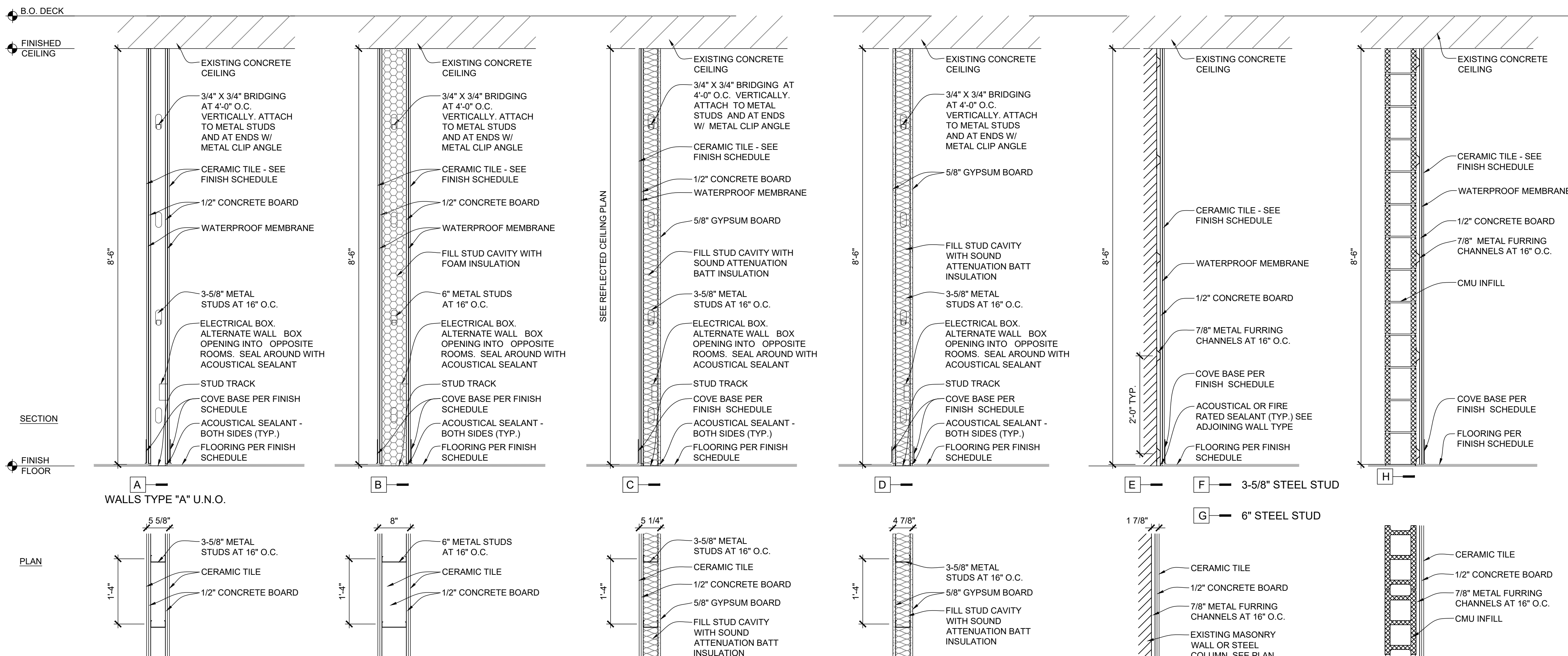
**G4** TYP. SHOWER SLOPE DETAIL - BASE BID: SEALED CONCRETE FLOORING  
SCALE: 3" = 1'-0"



**G10** TYP. SHOWER SLOPE DETAIL - ALTERNATE #4 BID: EPOXY FLOORING  
SCALE: 3" = 1'-0"



**A1** TYP. OUTSIDE CORNER TILE TRIM DETAIL  
SCALE: 3" = 1'-0"



**A4** INTERIOR WALL & PARTITION TYPES  
SCALE: 3/4" = 1'-0"

M  
L  
K  
J  
H  
G  
F  
E  
D  
C  
B  
A

H1

TYP. SOFFIT DETAIL  
SCALE: 1 1/2" = 1'-0"

H5

TYP. ROOF CURB DETAIL  
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE				FRAME SCHEDULE				HDWR	FIRE RATING	REMARKS
DOOR NO.	DOOR LEAF SIZE W X H	MATERIAL		MATERIAL		DETAILS		HARDWARE GROUP		
		DOOR ELEVATION		FRAME ELEVATION		HEAD	JAMB	SILL		
		WOOD		WOOD						
		HOLLOW METAL		HOLLOW METAL						
101	3'-0" X 7'-0"	D1		F1		A10 / A-601	A10 / A-601	2	---	
102	3'-0" X 7'-0"	D1		F1		A13 / A-601	A13 / A-601	2	---	
103	3'-0" X 7'-0"	D1		F1		A13 / A-601	A13 / A-601	1	---	
105	3'-0" X 7'-0"	D1		F1		A10 / A-601	A10 / A-601	2	---	

DOOR SCHEDULE NOTES

- ALL DOORS 3'-0" x 7'-0" UNLESS NOTED OTHERWISE.
- ALL DOORS TYPE D1 UNLESS NOTED OTHERWISE.
- ALL DOORS WOOD UNLESS NOTED OTHERWISE.
- ALL FRAMES TYPE F1 HOLLOW METAL UNLESS NOTED OTHERWISE.
- ALL HEAD, SILL AND THRESHOLD DETAILS A10/A-601 UNLESS NOTED OTHERWISE.
- INTERIOR DOORS UNDERCUT 5/8" TYPICAL UNLESS NOTED OTHERWISE. SEE PLAN FOR DOOR HAND.

E1

DOOR SCHEDULE AND LEGEND  
SCALE: NTS

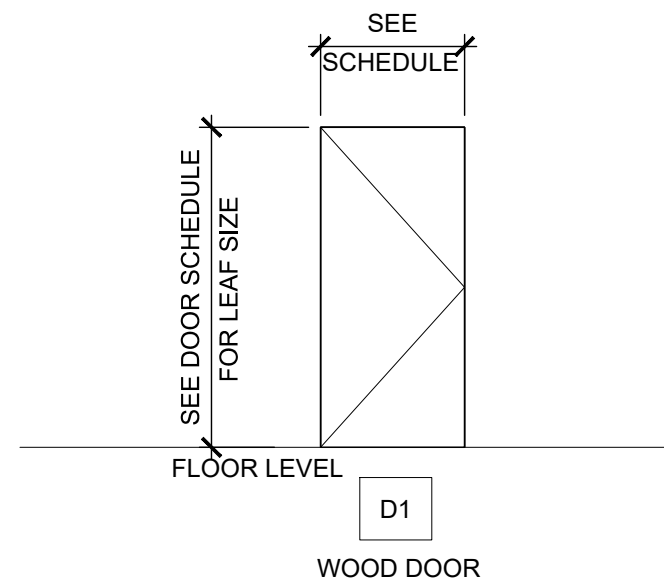
ROOM FINISH SCHEDULE										
ROOM #	ROOM NAME	FLOOR MAT'L	BASE MAT'L	WALL				CEILING		REMARKS
				NORTH	EAST	SOUTH	WEST	FINISH	HEIGHT	
BASE BID:										
101	WOMEN'S RESTROOM	SC	TB	CT	CT	CT	CT	P-1	EXTG. 8'-6"	PAINT ENTIRE CEILING
102	CORRIDOR	VCT	VB	P-1	P-1	P-1	P-1	ACT	7'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS
103	MECHANICAL	---	VB	P-1	P-1	P-1	P-1	EXTG.	EXTG. 8'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS & CLNG
104	MEN'S LOCKER ROOM	---	VB*	---	P-1	P-1	---	EXTG.	EXTG. 8'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS & CLNG
105	MEN'S RESTROOM	SC	TB	CT	CT	CT	CT	P-1	EXTG. 8'-6"	PAINT ENTIRE CEILING
ALTERNATE BID:										
101	WOMEN'S RESTROOM	EFP	EB	CT	CT	CT	CT	P-1	EXTG. 8'-6"	PAINT ENTIRE CEILING
102	CORRIDOR	VCT	VB	P-1	P-1	P-1	P-1	ACT	7'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS
103	MECHANICAL	---	VB	P-1	P-1	P-1	P-1	EXTG.	EXTG. 8'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS & CLNG
104	MEN'S LOCKER ROOM	---	VB*	---	P-1	P-1	---	EXTG.	EXTG. 8'-6"	PAINT NEW WALLS, TOUCH UP OTHER WALLS & CLNG
105	MEN'S RESTROOM	EFP	EB	CT	CT	CT	CT	P-1	EXTG. 8'-6"	PAINT ENTIRE CEILING
* WHERE DESIGNATED ON PARTITION TYPES										
FINISH SCHEDULE MATERIAL LEGEND										
<b>FLOORS:</b> EXISTING SEALED CONCRETE SC: SEALED CONCRETE VCT: VINYL COMPOSITE TILE COLOR TO MATCH EXISTING EFP: EPOXY FLOORING				<b>WALL TILE:</b> CT: CROSSVILLE - COLOR BLOX 2.0 - 12 X 24 COLOR: SLINKY CBX03 GROUT: MAPEI COLOR: IRON 107				<b>CEILINGS:</b> P-3 ON EXISTING CONCRETE CEILINGS FRP: FIBERGLASS REINFORCED PLASTIC CRANE - GLASBORD - COLOR SELECTED FROM STANDARDS		
<b>COVE BASE:</b> TB: TILE COVE BASE TO MATCH WALL TILE (CT) EB: EPOXY COVE BASE TO MATCH EPOXY FLOORING (EFP) VB: VINYL COVE BASE				<b>PAINT:</b> P-1: MATCH EXISTING WALLS P-2: MATCH EXISTING TRIM P-3: MATCH EXISTING CEILING				<b>TOILET PARTITIONS:</b> BASE BID: STAINLESS STEEL ALTERNATE BID: HDPE		
								<b>COUNTERTOPS:</b> SS: SOLID SURFACE (COUNTERTOPS) CORIAN - COLOR SELECTED FROM STANDARDS		

A1

FINISH SCHEDULE AND LEGEND  
SCALE: NTS

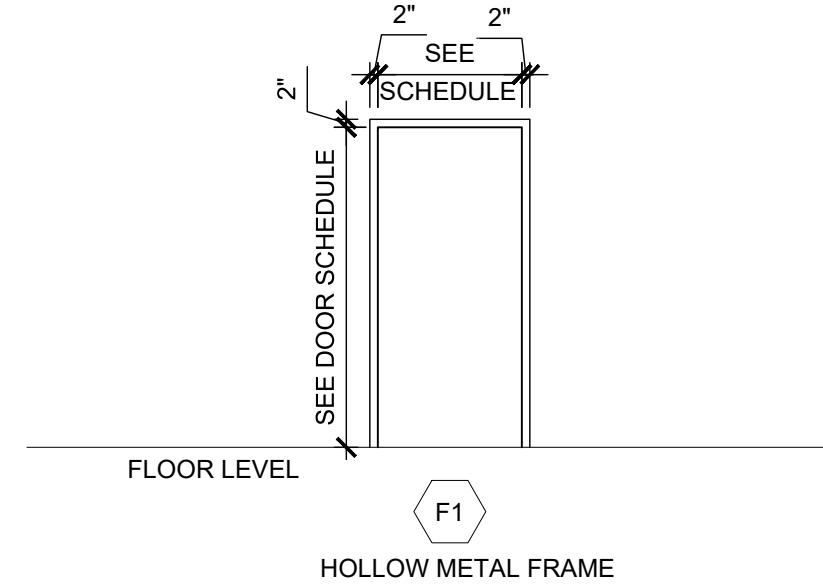
E10

DOOR ELEVATIONS  
SCALE: 3/4" = 1'-0"



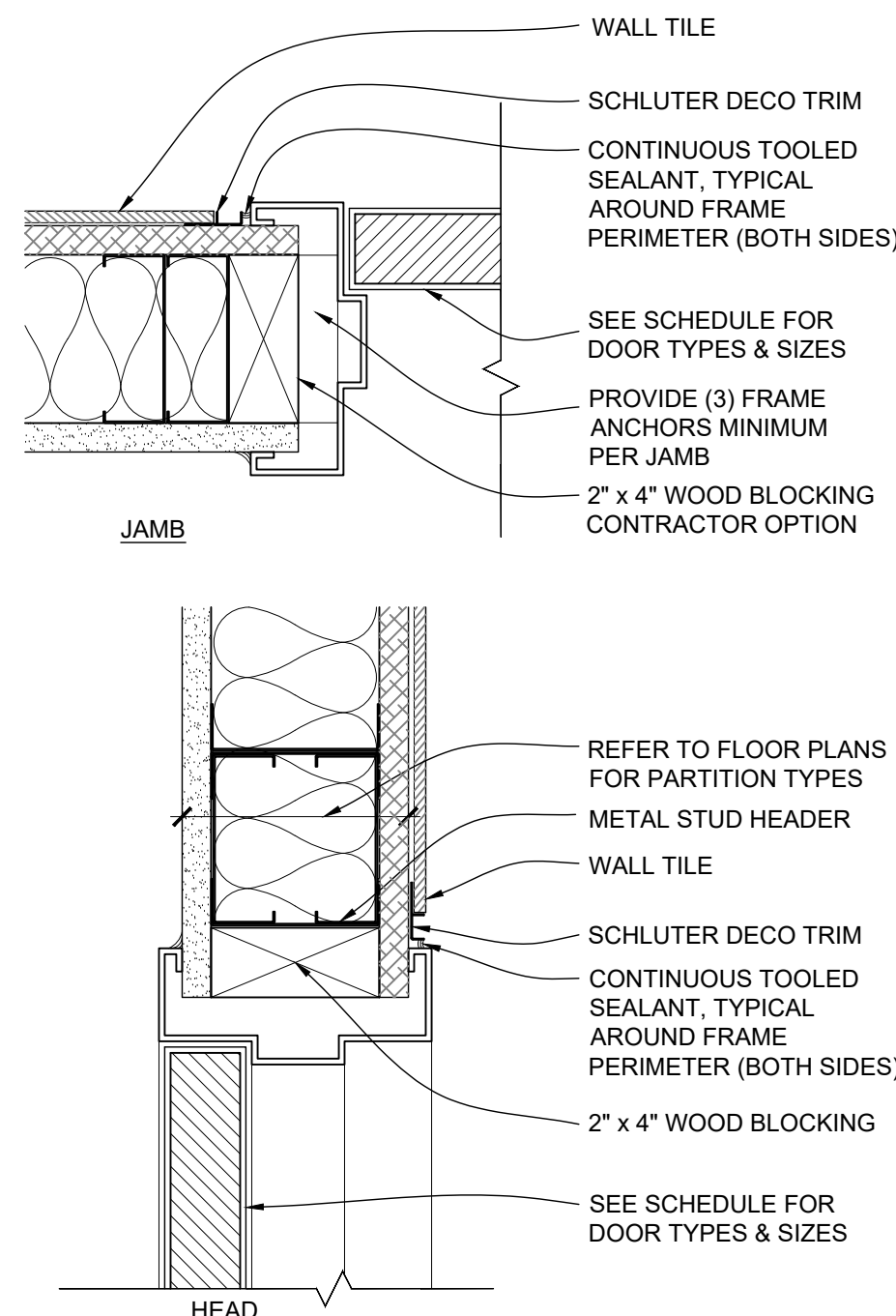
E12

FRAME ELEVATIONS  
SCALE: 3/4" = 1'-0"



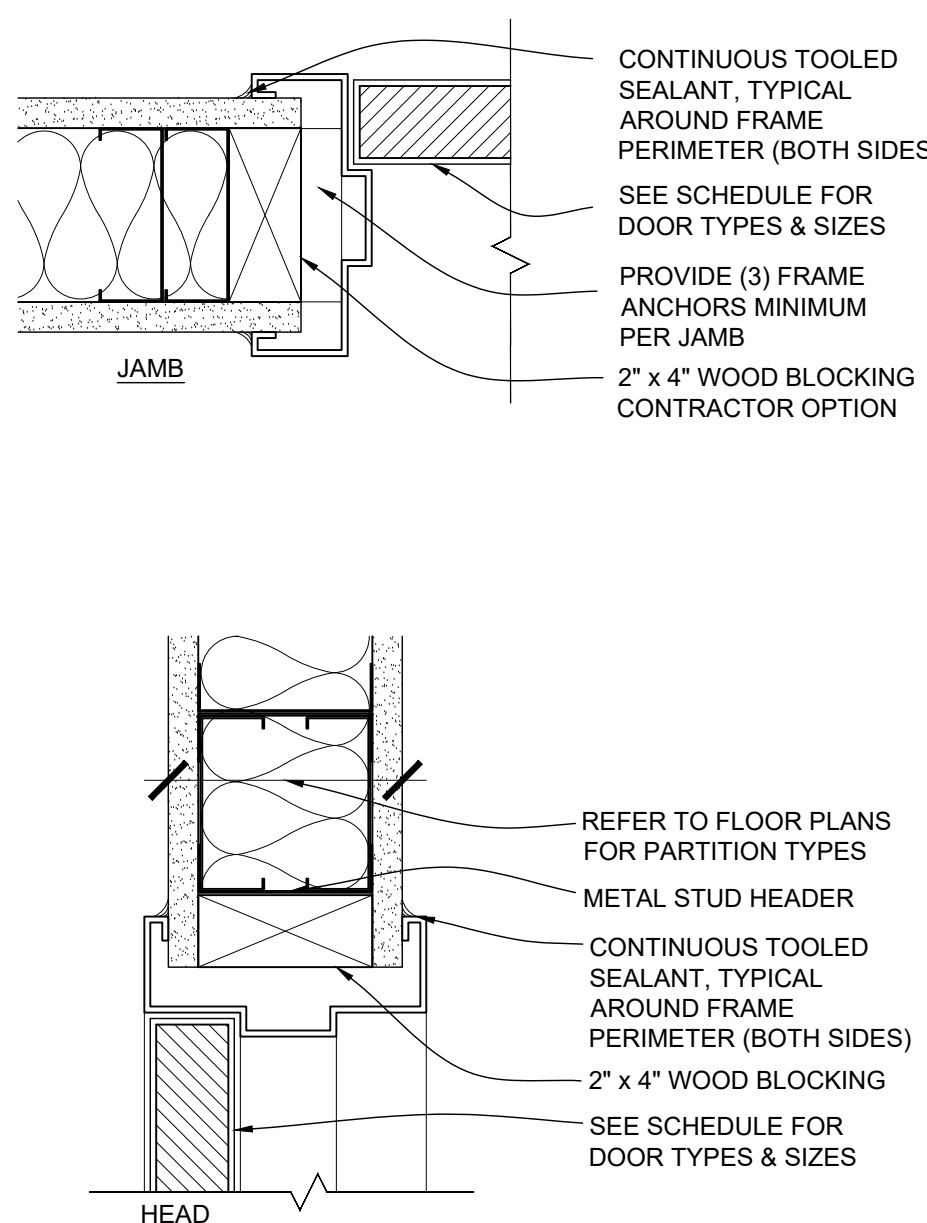
A10

H.M. FRAME DETAIL WITH WALL TILE @ JAMB  
SCALE: 3" = 1'-0"



A13

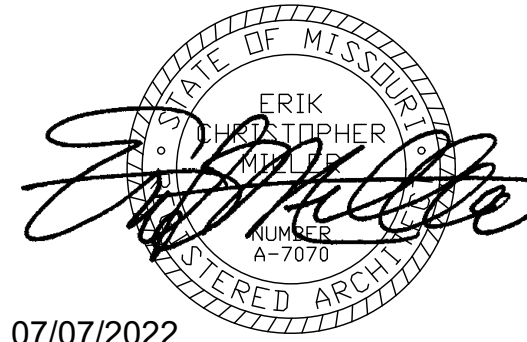
INTERIOR HOLLOW METAL DOOR FRAMES  
SCALE: 3" = 1'-0"



GENERAL DOOR DETAIL NOTES

- FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO EXECUTING ANY WORK. NOTIFY ARCHITECT OF ANY DIMENSIONS OR WORK DIFFERING FROM THAT SHOWN, FOR CLARIFICATION BY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- VERIFY ALL ROUGH OPENINGS FOR DOORS, WINDOWS, EQUIPMENT, & OTHER "BUILT-IN" ITEMS PRIOR TO EXECUTION OF ANY WORK AFFECTED BY SAME.
- LOCATE DOOR OPENINGS IN METAL STUD WALLS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 6" FROM FINISH WALL TO FINISH JAMB.
- SEE DOOR SCHEDULE FOR DOOR DIMENSIONS AND DETAILS.
- LOCATE DOOR OPENINGS IN CMU WALLS WHICH ARE NOT DIMENSIONED OTHERWISE, CENTERED IN WALL AND 8" FROM FINISH WALL TO FINISH JAMB.

STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



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DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
ISSUE DATE: 07/07/2022

CAD DWG FILE: A-601  
DRAWN BY: MM  
CHECKED BY: EM  
DESIGNED BY: MM / EM

SHEET TITLE:  
SCHEDULES &  
DETAILS

SHEET NUMBER:

A-601

11 OF 19 SHEETS  
07/07/2022



HVAC PLAN SYMBOL LEGEND

- X

#

→

EQUIPMENT TYPE (REFER TO EQUIPMENT SCHEDULE)
- X

#

→

EQUIPMENT REFERENCE NUMBER
- X

#

→

DIFFUSER/GRILLE TYPE (REFER TO SCHEDULE)
- X

#

→

CUBIC FEET PER MINUTE (CFM) / FACE SIZE
- |||||

→

SUPPLY DUCTWORK
- - -

→

RETURN DUCTWORK
- |||||

→

EXHAUST DUCTWORK
- - -

→

OUTSIDE AIR DUCTWORK
- ~~~~~

→

FLEX DUCT
- →

VENT / COMBUSTION AIR
- ✕

→

TIE INTO EXISTING
- ▣

→

SUPPLY DIFFUSER (HATCH INDICATES "NO FLOW ZONE")
- ▣

→

RETURN DIFFUSER
- ⌋

→

BALANCE DAMPER
- ⌋

→

MOTORIZED DAMPER
- ⌋

→

CEILING RADIATION DAMPER
- ⌋

→

FIRE RATED DAMPER
- ⌋

→

SMOKE DAMPER
- ⌋

→

THERMOSTAT
- ⌋

→

CO2 DETECTOR
- ⊙

→

RETURN DUCT SMOKE DETECTOR  
WIRED TO FAN STARTER TO SHUT UNIT(S) DOWN AND SEND ALARM SIGNAL  
TO FIRE ALARM SYSTEM (IF PRESENT) OR TO REMOTE SOUNDER  
LOCATED IN AN OCCUPIED SPACE (EQUAL TO SYSTEM SENSOR #D4120)
- ◆

→

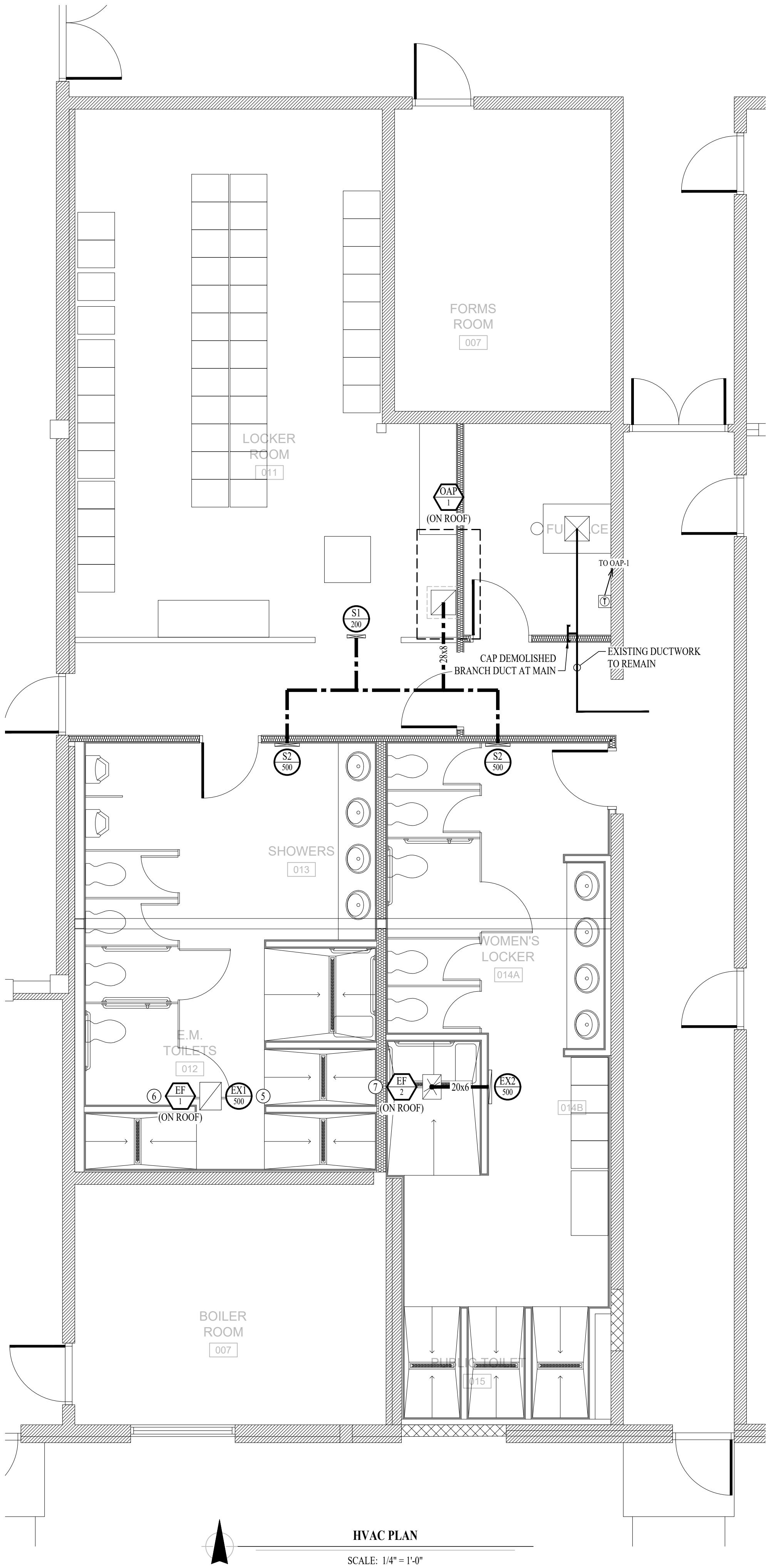
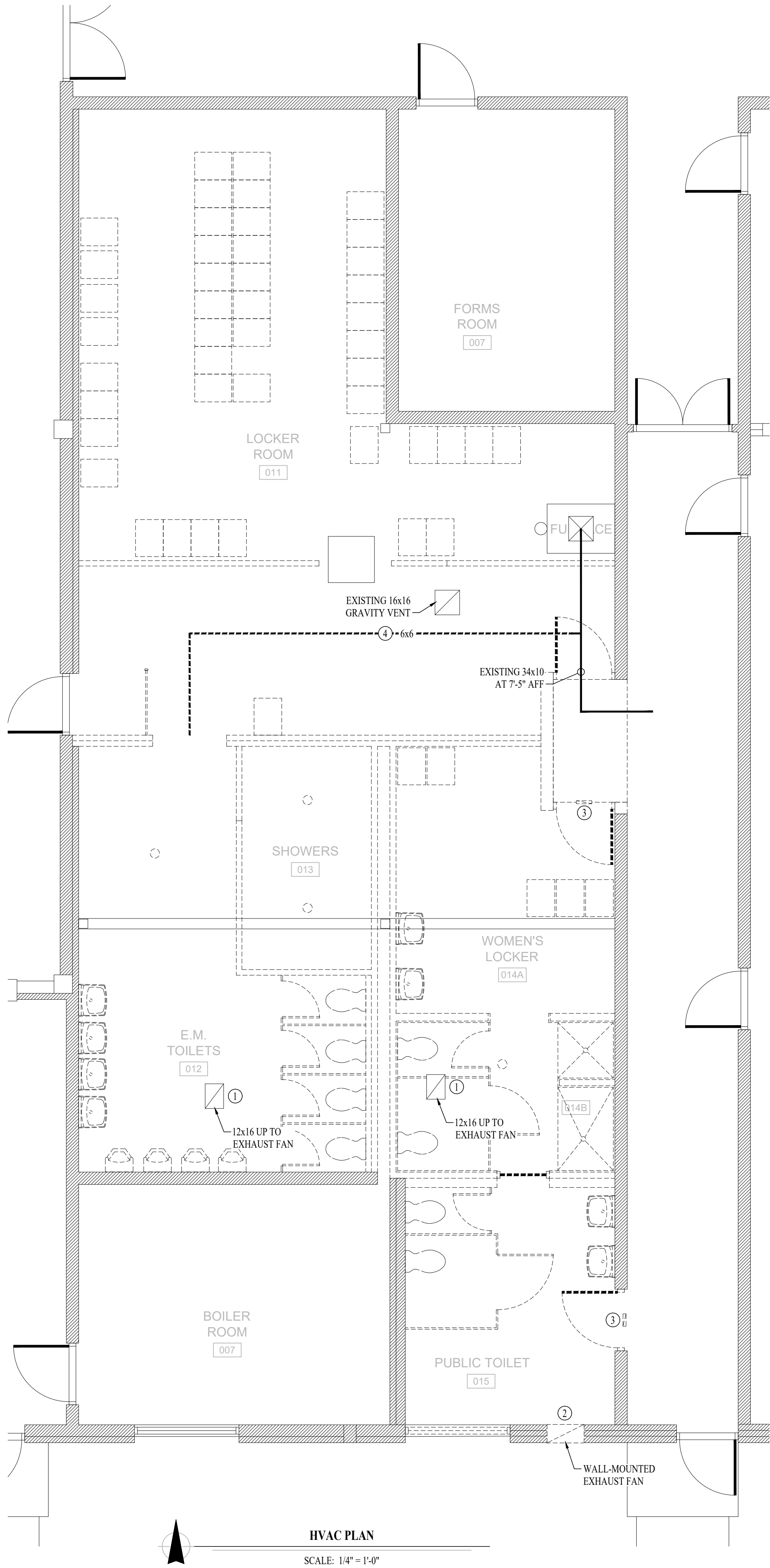
REMOTE SOUNDER WIRED TO RETURN DUCT SMOKE DETECTOR  
(EQUAL TO SYSTEM SENSOR #MHW)

HVAC PLAN GENERAL NOTES:

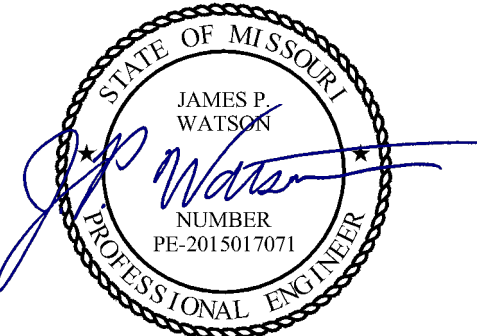
1. SEE SHEET M-501 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.
2. SET DISCHARGE AIR TEMPERATURE OF OAP-1 TO 72°F; ADJUSTABLE BY THERMOSTAT IN MECHANICAL ROOM.
3. INSTALL NEW DUCTWORK TIGHT TO CEILING.

HVAC PLAN KEY NOTES:

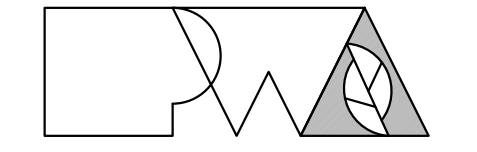
- ① DEMOLISH EXISTING EXHAUST FAN ON ROOF.
- ② DEMOLISH EXISTING WALL-MOUNTED EXHAUST FAN. REFER TO ARCHITECTURAL FOR PATCHING OF WALL PENETRATION.
- ③ DEMOLISH EXISTING TRANSFER GRILLE (APPROXIMATELY 6x10) ABOVE DOOR. PATCH OPENING.
- ④ DEMOLISH EXISTING 6x6 SUPPLY DUCT & CAP AT MAIN DUCT.
- ⑤ INSTALL NEW SURFACE-MOUNTED GRILLE OVER EXISTING 12x16 EXHAUST DUCT.
- ⑥ INSTALL NEW EXHAUST FAN (EF-1) ON EXISTING CURB. PROVIDE CURB ADAPTER AS NEEDED.
- ⑦ INSTALL NEW EXHAUST FAN (EF-2) ON EXISTING CURB. PROVIDE CURB ADAPTER AS NEEDED.
- ⑧ USE EXISTING GRAVITY VENT OPENING FOR NEW FRESH AIR SUPPLY DUCT.



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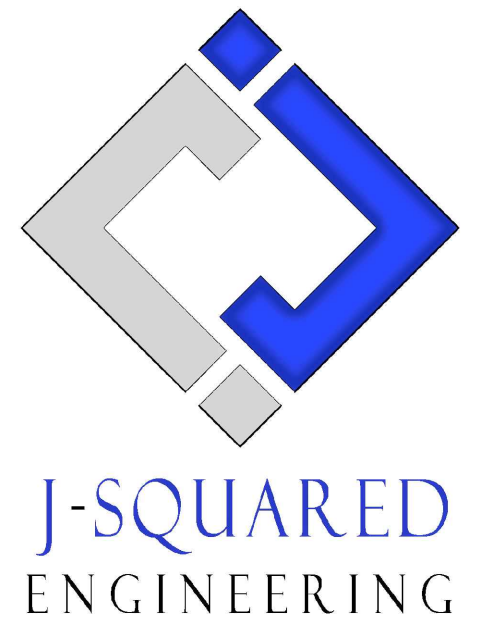


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LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/07/2022

CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

HVAC PLAN

SHEET NUMBER:

M-101

12 OF 19 SHEETS  
07/07/2022



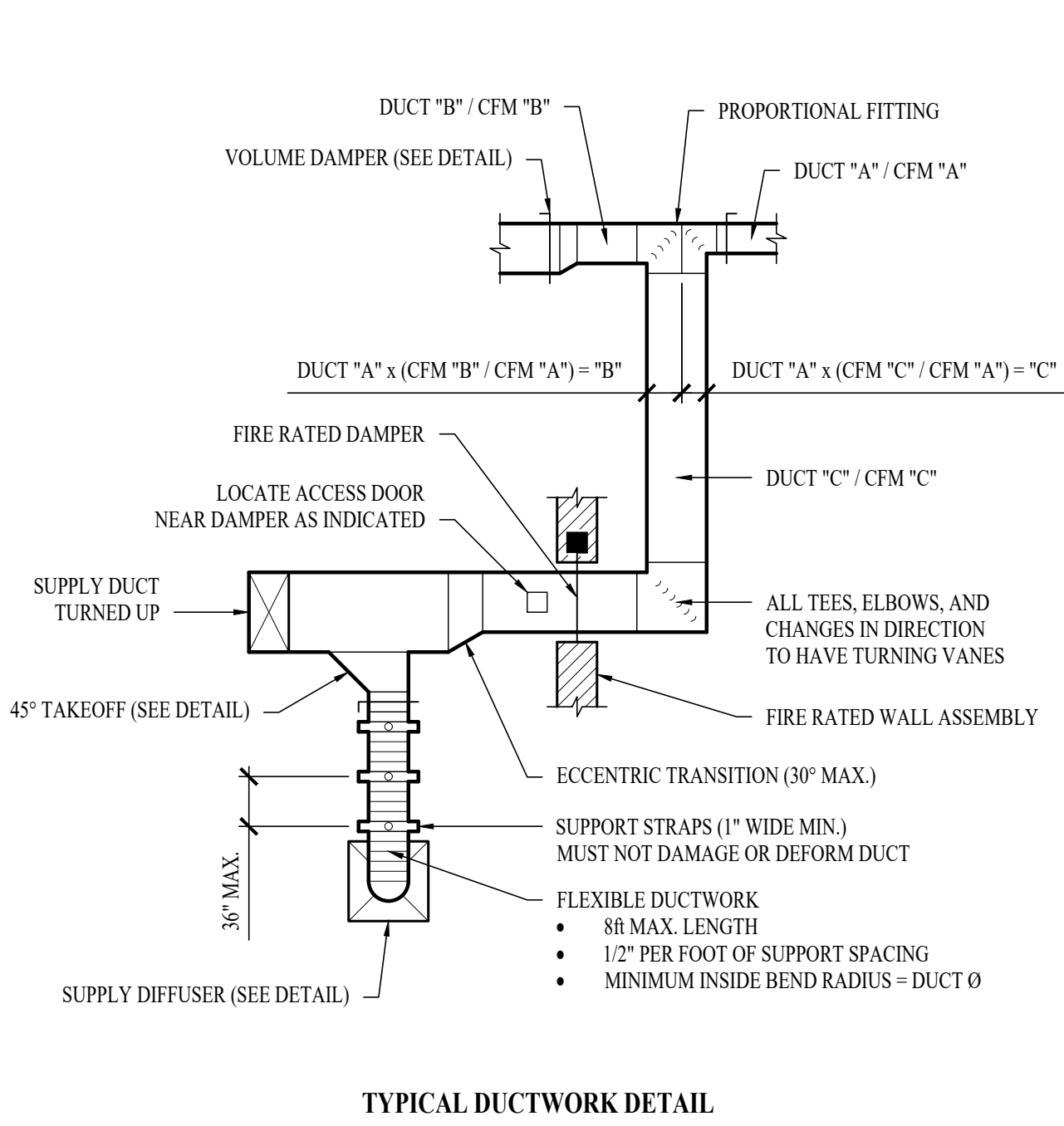
HVAC SPECIFICATIONS

1. EQUIPMENT
- 1.1. ALL EQUIPMENT MUST PROVIDE THE PERFORMANCE SPECIFIED ON PLANS. WHERE SPECIFIC MAKES AND MODELS ARE INDICATED ON PLAN, CONTRACTOR TO PROVIDE MODEL INDICATED OR APPROVED EQUAL.
- 1.2. CONTRACTOR TO SUPPLY SUBMITTALS FOR ALL EQUIPMENT FOR REVIEW BY ARCHITECT AND ENGINEER PRIOR TO PURCHASE.
- 1.3. ALL HORIZONTAL FURNACES WITH AC COILS TO BE EQUIPPED WITH CORROSION RESISTANT DRAIN PAN. DRAIN PAN TO DISCHARGE TO SANITARY WASTE VIA INDIRECT CONNECTION WITH AIR GAP. DRAIN PAN TO PROVIDE SECONDARY OVERFLOW OR FLOAT SWITCH INTERLOCKED WITH UNIT TO SHUT DOWN UNIT ON HIGH WATER SIGNAL.
- 1.4. ALL EXTERIOR REFRIGERANT COILS TO BE PROTECTED BY FACTORY EQUIPPED HAIL GUARDS.
- 1.5. REFRIGERANT PIPING TO BE ACR COPPER OR TYPE L COPPER.
2. DUCTWORK
- 2.1. DUCTWORK TO BE GALVANIZED STEEL, SEAL CLASS B, CONSTRUCTED PER SMACNA STANDARDS.
- 2.2. 26 GA. MINIMUM UP TO 16" DUCT, 24 GA. UP TO 20", 22 GA. UP TO 24", 20 GA. UP TO 28", AND 18 GA. UP TO 36".
- 2.3. TURNING VANES TO BE PROVIDED AND INSTALLED AT ALL 90° BENDS AND TEES.
- 2.4. DUCT DIMENSIONS LISTED ARE TO INTERIOR OF DUCT LINER.
- 2.5. BALANCE DAMPERS MUST BE PROVIDED TO ALLOW ADJUSTMENT AT EACH AIR TERMINAL.
- 2.5.1. WHERE BRANCH TAKEOFF IS ACCESSIBLE (ABOVE LAY-IN CEILING OR EXPOSED DUCT), THE BALANCE DAMPER IS TO BE INSTALLED AT TAKEOFF.
- 2.5.2. WHERE TAKEOFF IS INACCESSIBLE (IN ATTIC OR SOFFIT), THE BALANCE DAMPER IS TO BE LOCATED SO IT IS ACCESSIBLE FROM FACE OF AIR DEVICE.
- 2.6. HVAC CONTRACTOR RESPONSIBLE FOR ALL DUCTWORK TRANSITIONS AND FITTINGS AS REQUIRED FOR FINAL CONNECTIONS TO HVAC EQUIPMENT.
3. INSULATION
- 3.1. DUCTWORK
- 3.1.1. SEE "TYPICAL DUCT INSULATION DIAGRAM" FOR INSTALLATION SPECIFIC REQUIREMENTS.
- 3.1.2. INTERNAL DUCT LINER TO BE EQUAL TO 'JOHNS MANVILLE LINACOUSTIC R-300'.
- 3.1.3. EXTERNAL DUCT WRAP TO INCLUDE VAPOR BARRIER. EQUAL TO 'JOHNS MANVILLE MICROLITE' WITH FSK JACKET.
- 3.2. REFRIGERANT PIPING
- 3.2.1. REFRIGERANT PIPING SHALL BE TYPE ACR OR TYPE L COPPER.
- 3.2.2. SPLIT SYSTEM (SUCTION LINE ONLY) - 1" CLOSED CELL ELASTOMERIC FOAM (EQUAL TO 'ARMAFLEX AP').
- 3.3. CONDENSATE PIPING
- 3.3.1. OAP - INSULATE WITH ½" ELASTOMERIC.
4. WORKMANSHIP
- 4.1. COORDINATE WITH OTHER TRADES SO THAT HVAC EQUIPMENT AND DUCT WORK DOES NOT BLOCK REQUIRED ACCESS OR CLEARANCE TO EQUIPMENT.
- 4.2. ALL HVAC EQUIPMENT IS TO BE INSTALLED PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- 4.3. ALL EQUIPMENT TO BE INSTALLED LEVEL AND PLUMB.
- 4.4. ROOFTOP MOUNTED RTUS TO BE INSTALLED ON CURBS PER MANUFACTURES INSTRUCTIONS.
- 4.5. GRADE MOUNTED RTUS, CONDENSING UNITS, AND HEAT PUMPS TO BE INSTALLED ON 4" REINFORCED CONCRETE PAD EXTENDING 4" BEYOND EACH EDGE OF THE EQUIPMENT, OR A MANUFACTURER APPROVED PRE-MANUFACTURED BASE.
5. TESTING AND BALANCING
- 5.1. THIRD PARTY CERTIFIED TEST AND BALANCE NOT REQUIRED.

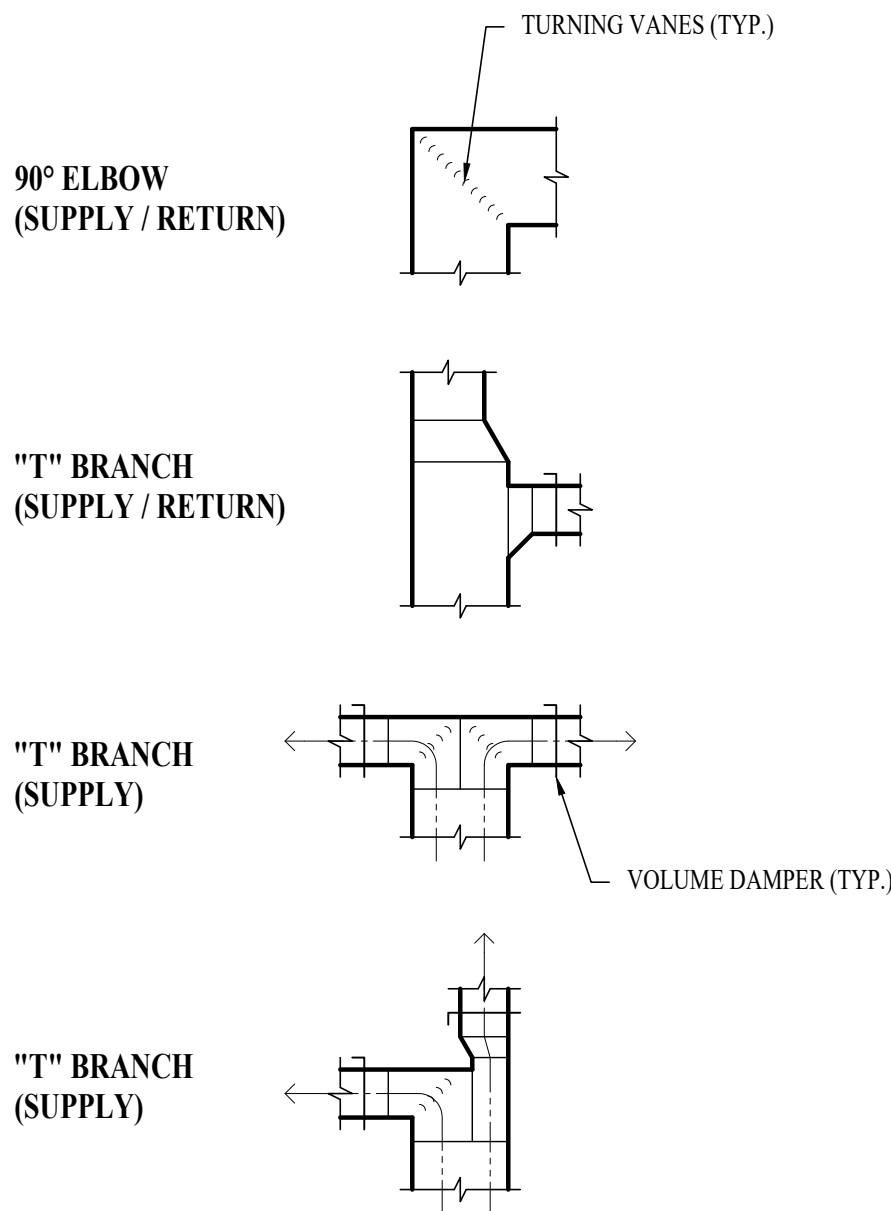
OAP SCHEDULE																											
TAG	EQUIPMENT DESCRIPTION	MODEL NUMBER	SIZE (TONS)	ORIENTATION	TOTAL AIRFLOW (CFM)	OA AIRFLOW MAX/MIN (CFM)	GAS HEATING INFORMATION		COOLING INFORMATION										REHEAT INFORMATION					ELECTRICAL			NOTES
									OUTSIDE AIR		MIXED AIR		LEAVING AIR		CAPACITY		MINIMUM EFFICIENCY	DISCHARGE		CAPACITY		MOISTURE REMOVAL RATE (LBS / HR)					
							INPUT (kBtu)	OUTPUT (kBtu)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DB (°F)	WB (°F)	DP (°F)	TOTAL (kBtu)		SENSIBLE (kBtu)		DB (°F)	WB (°F)		DESIRED (kBtu)	MAX (kBtu)		VOLTS / PHASE	MCA
OAP-1	OUTSIDE AIR PROCESSING UNIT	CASRTU1-1.150-18-7.5T-DOAS	7.5	DOWN FLOW	1300	1300	150	120	98	76	98	76	51.1	50.5	50.1	102	61.6	18.6 IER	70	58.1	26.9	60	36.7	208/1	62	70	1 THRU 15
NOTES:																											
1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR																											
2. DIRECT DRIVE PLENUM BLOWER																											
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER																											
4. REFRIGERATION PRESSURE MONITORING ON HIGH & LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE																											
5. EC MOTOR CONDENSING FANS																											
6. ELECTRONIC EXPANSION VALVE																											
7. SUCTION LINE ACCUMULATOR																											
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS WARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER																											
9. AVERAGING INTAKE, EVAP & DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT																											
10. 80% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE; 6:1 TURNDOWN WITH NATURAL GAS																											
11. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUGH DIGITAL INTERFACE																											
12. FULLY MODULATING HOT GAS REHEAT																											
13. HAIL GUARD FOR CONDENSING COIL																											
14. 1" EXTERIOR DUAL-WALL CONSTRUCTION w/ R4.3 INSULATION - MINIMUM 24GA EXTERIOR w/ 18GA BASE																											
15. DOWN DISCHARGE																											

EXHAUST FAN SCHEDULE											
TAG	EQUIPMENT TYPE	MANUFACTURER (OR EQUAL)	MODEL (OR EQUAL)	FLOW		ELECTRICAL			PHYSICAL		NOTES
				CFM	S.P.	VOLT/PH	MCA	OCP	DIM.	WEIGHT	
EF-1	ROOF EXHAUSTER	S&P	SDBD8	500	0.375	120/1		20			1,2,3
EF-2	ROOF EXHAUSTER	S&P	SDBD8	500	0.375	120/1		20			1,2,3
NOTES: 1. WITH BACKDRAFT DAMPER 2. WITH SPEED CONTROLLER 3. 1450 RPM, 1/10 HP, 0.5 BHP											

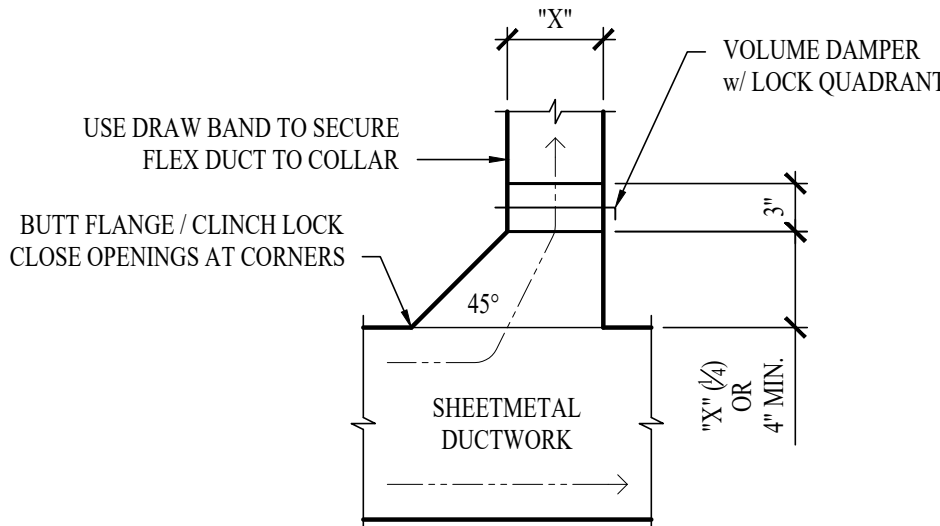
AIR DEVICE SCHEDULE						
TAG	SERVICE	MANUFACTURER (OR EQUAL / SEE SPECS)	MODEL (OR EQUAL / SEE SPECS)	SIZE	COLOR / FINISH	NOTES
EX1	EXHAUST	PRICE	80	14x18	WHITE	
EX2	EXHAUST	PROCE	530	22x8	WHITE	
S1	SUPPLY	PRICE	520	12x4	WHITE	
S2	SUPPLY	PRICE	520	18x8	WHITE	
<div>NOTES:</div> <div>1. VERIFY AIR DEVICE FINISHES WITH OWNER/ARCHITECT PRIOR TO INSTALLATION</div>						



TYPICAL DUCTWORK DETAIL

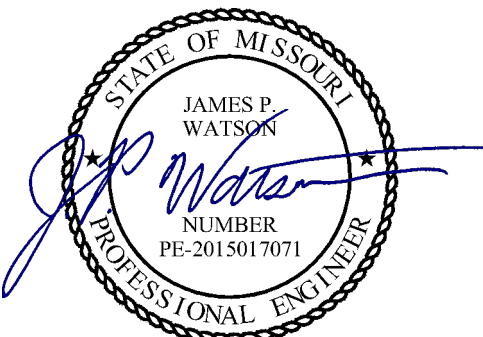


TYPICAL DUCTWORK FITTINGS DETAIL

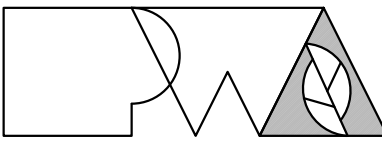


TYPICAL 45° TAKEOFF DETAIL

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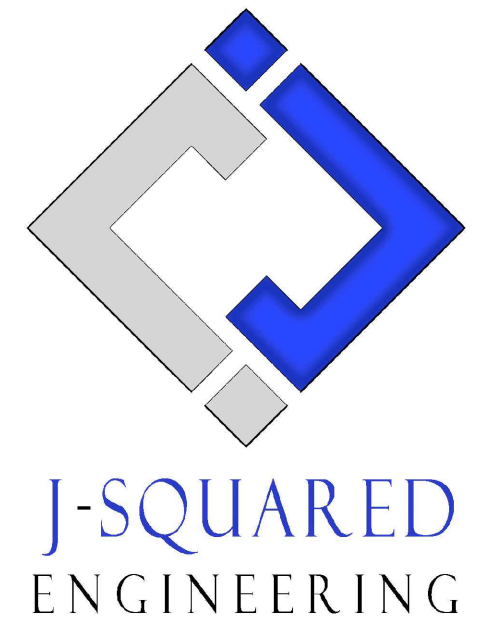


James Watson, P.E. July 7, 2022  
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MANAGEMENT,  
DESIGN AND  
CONSTRUCTION

LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/07/2022

CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

HVAC DETAILS &  
SCHEDULES

SHEET NUMBER:

M-501

13 OF 19 SHEETS  
07/07/2022

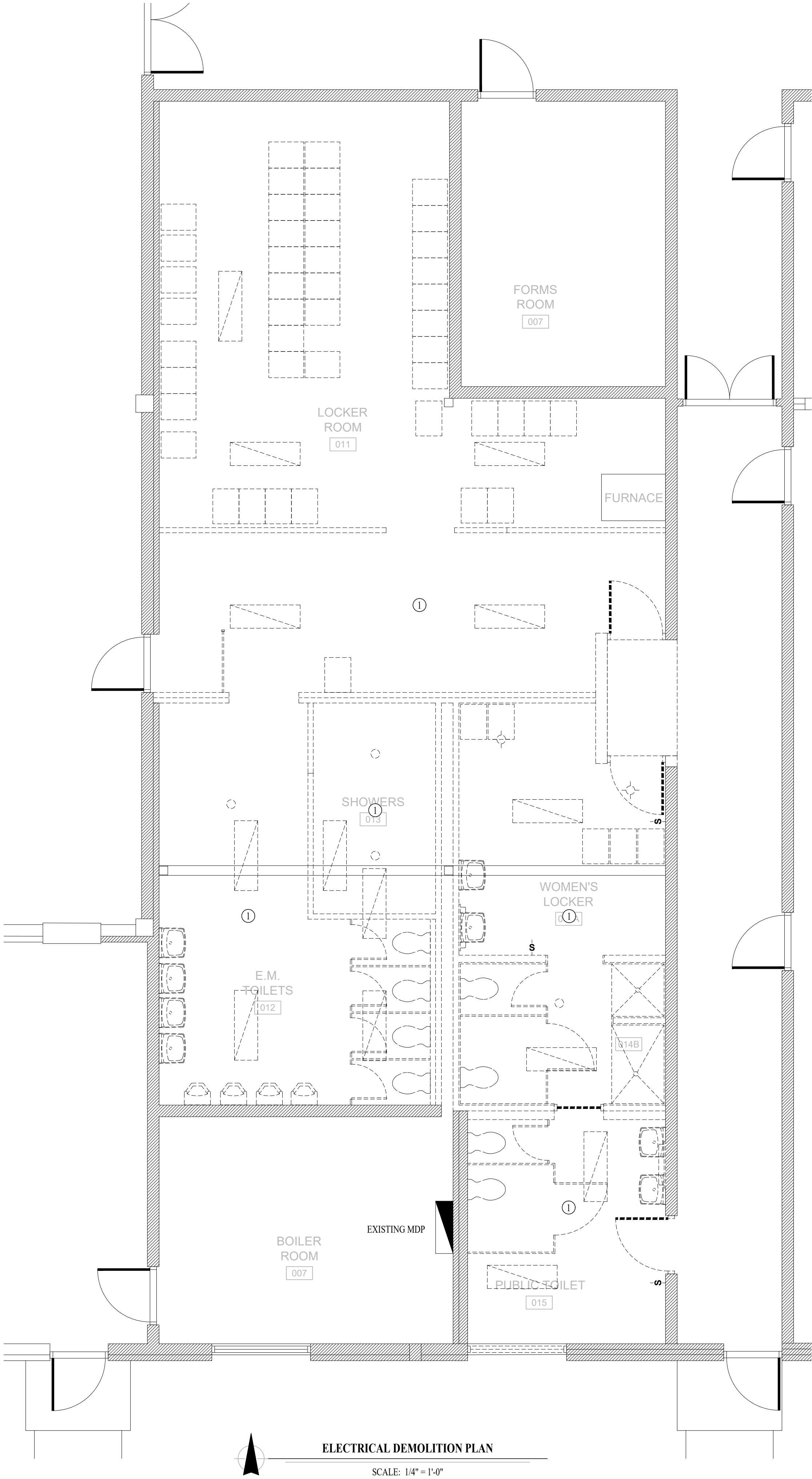


ELECTRICAL DEMOLITION PLAN GENERAL NOTES:

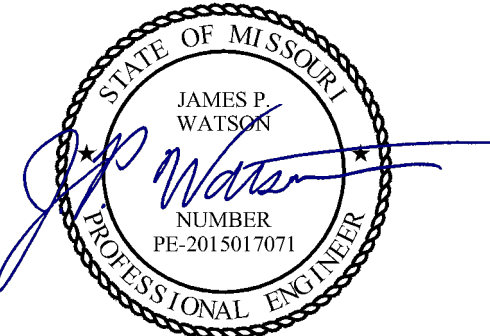
1. SEE SHEET M501 FOR ADDITIONAL HVAC NOTES, DETAIL, AND SCHEDULES.

ELECTRICAL DEMOLITION PLAN KEY NOTES:

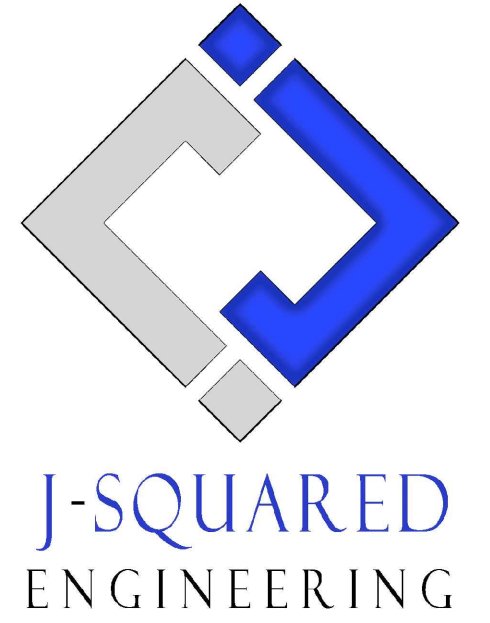
① DEMOLISH EXISTING LIGHTING IN THIS AREA. REMOVE CIRCUIT BACK TO NEAREST J-BOX.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
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SHEET TITLE:

ELECTRICAL  
DEMOLITION PLAN

SHEET NUMBER:

ED-101

14 OF 19 SHEETS  
07/07/2022



POWER PLAN SYMBOL LEGEND

- CIRCUIT WIRING
- PX-XX CIRCUIT TAG
- ⊙ JUNCTION BOX
- XY ⊙ +42 RECEPTACLE  
INDICATES MOUNTING HEIGHT TO BOTTOM OF BOX  
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- "WP" = WEATHERPROOF OUTDOOR RECEPTACLE  
"AW" = ABOVE WINDOW RECEPTACLE  
"AC" = ABOVE CEILING RECEPTACLE  
"EX" = EXISTING RECEPTACLE TO REMAIN
- ⊙ GFCI DUPLEX CONVENIENCE RECEPTACLE
- ⊙ 208V RECEPTACLE
- ⊕ QUADPLEX CONVENIENCE RECEPTACLE
- ⊙ USB OUTLET  
WITH USB-A & USB-C CHARGING PORT
- ▼ DATA / PHONE JACK  
BOX WITH 1" CONDUIT & PULL STRING) UP TO CEILING SPACE  
(STANDARD @ 18" AFF UNLESS NOTED OTHERWISE)
- AP ▼ WIRELESS ACCESS POINT, CEILING MOUNTED
- ⊙ FLOOR RECEPTACLE
- ▼ FLOOR DATA
- ⊕ DISCONNECT
- ⊕ FUSED DISCONNECT
- ⊕ FUSED SWITCH
- ⊕ STARTER / DISCONNECT
- ✕ TIE INTO EXISTING

LIGHTING PLAN SYMBOL LEGEND

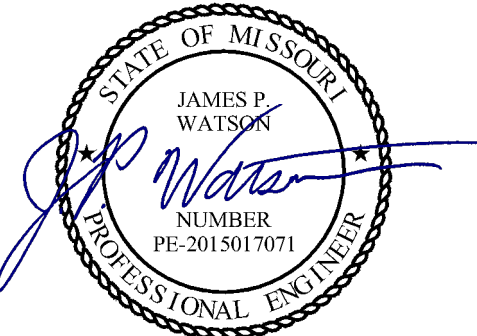
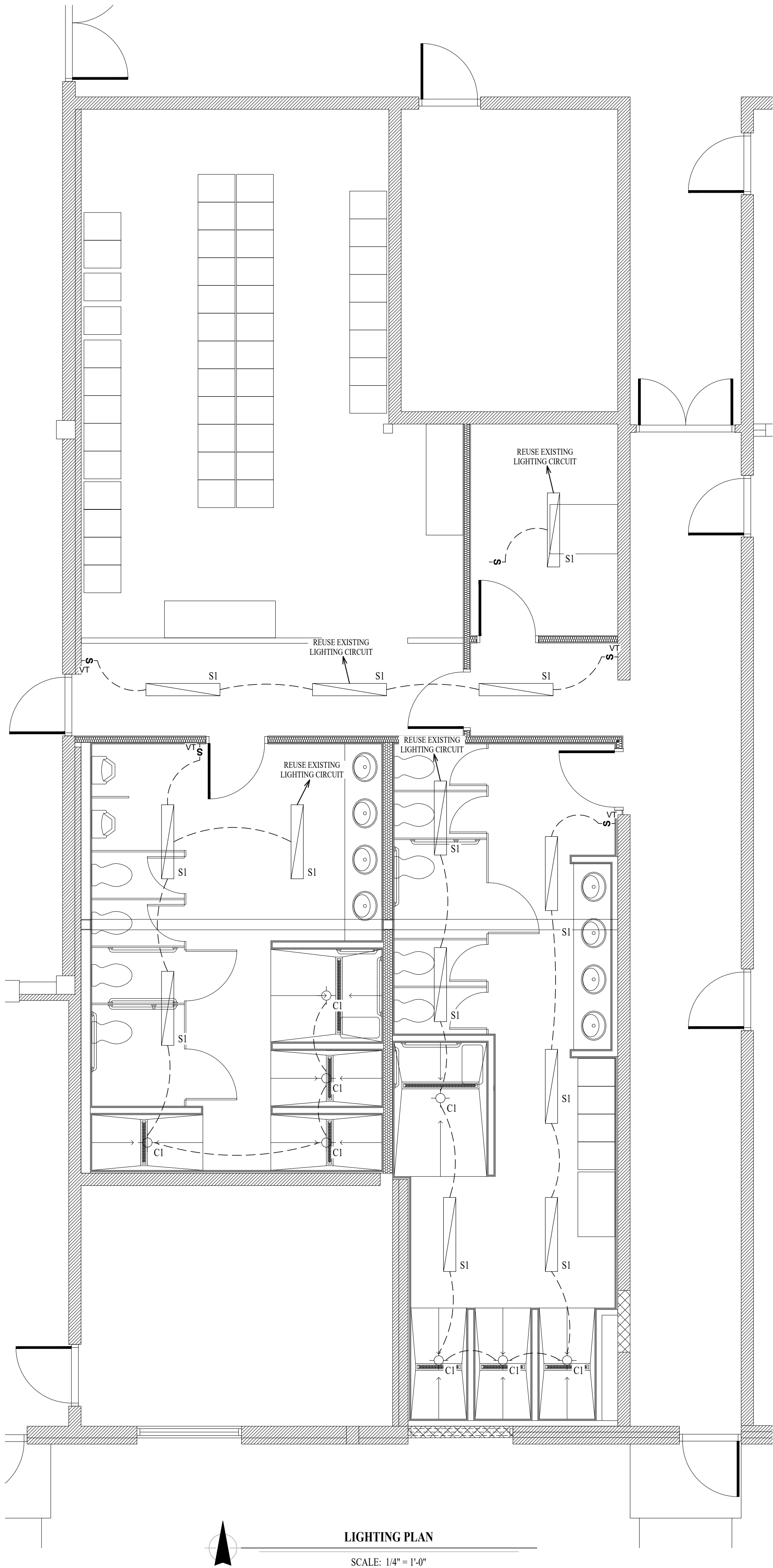
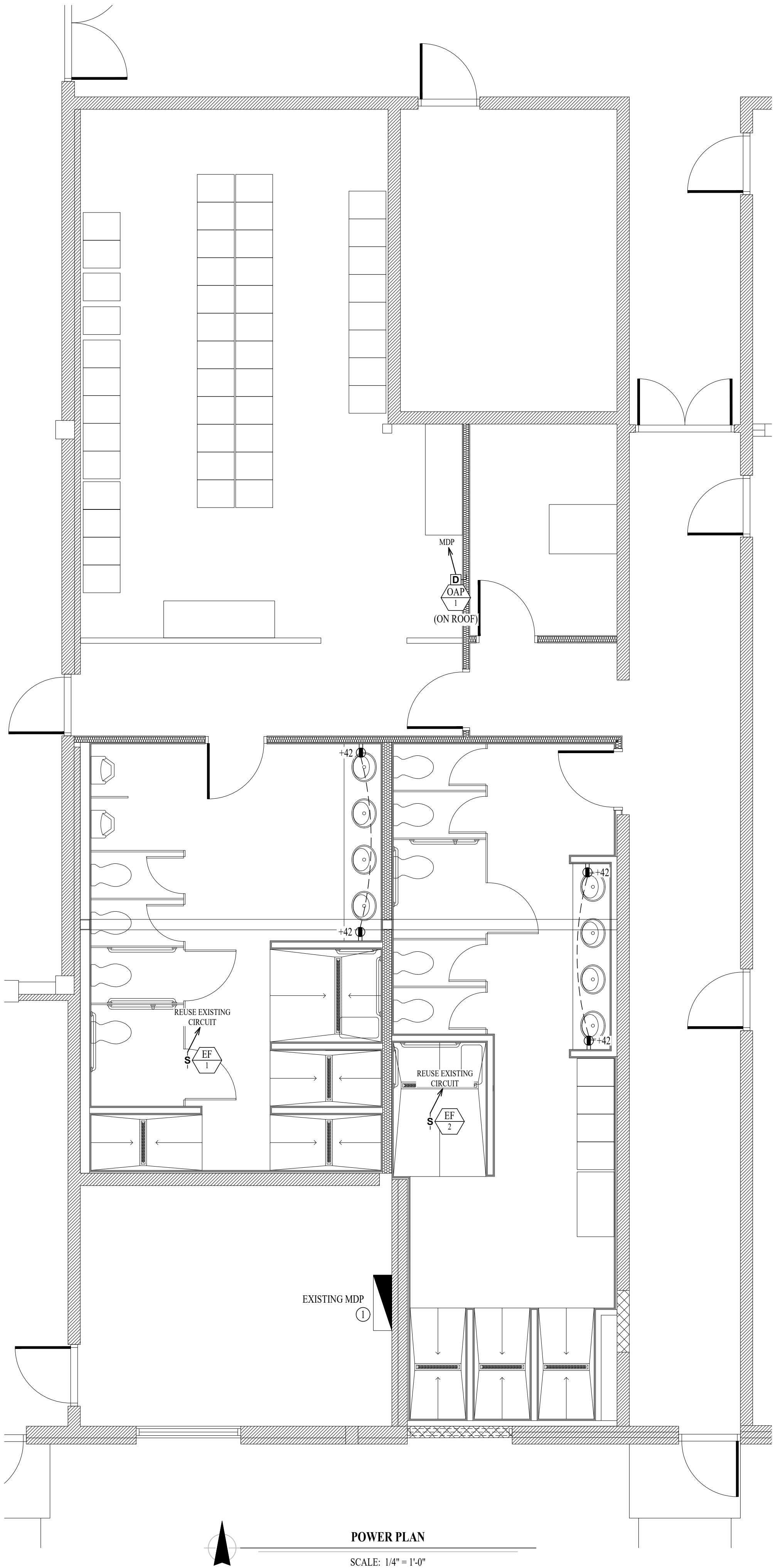
- X1 ← "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
- LIGHTING FIXTURE
- EM ← "EM" INDICATES EMERGENCY BATTERY BACKUP
- NL ← "NL" INDICATES UN-SWITCHED NIGHT LIGHT
- EXIT LIGHT
- INDICATES REQUIRED REMOTE HEAD
- EMERGENCY EGRESS LIGHT
- Ⓢ X SWITCH (WALL MOUNTED)  
SWITCH TYPE:
  - 3 = 3-WAY
  - 4 = 4-WAY
  - OP = PASSIVE INFRARED OCCUPANCY SENSOR
  - OU = ULTRASONIC OCCUPANCY SENSOR
  - OT = DUAL-TECHNOLOGY OCCUPANCY SENSOR
  - VP = PASSIVE INFRARED VACANCY SENSOR
  - VU = ULTRASONIC VACANCY SENSOR
  - VT = DUAL-TECHNOLOGY VACANCY SENSOR
  - M = MOMENTARY SWITCH
  - SS = SCENE SWITCH
- Ⓟ X DIMMER SWITCH (WALL MOUNTED)  
SWITCH TYPE:
  - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- Ⓢ X SWITCH (CEILING MOUNTED)  
SWITCH TYPE:
  - SEE "SWITCH (WALL MOUNTED)" FOR TYPE DESIGNATIONS
- Ⓟ POWER PACK
- OCCUPANCY SENSOR**
- AUTO FULL-ON (OR 50% IF NOTED)
  - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
  - WITH MANUAL OVERRIDE CONTROL (IF NOTED)
- VACANCY SENSOR**
- MANUAL FULL-ON
  - AUTOMATICALLY TURN OFF LIGHTING AFTER 20 MINUTES WITHOUT OCCUPANT DETECTION
  - WITH MANUAL OVERRIDE CONTROL (IF NOTED)

ELECTRICAL PLANS GENERAL NOTES:

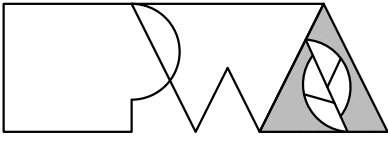
- SEE SHEET E-501 FOR ADDITIONAL ELECTRICAL NOTES, DETAILS, & SCHEDULES.
- OCCUPANCY / VACANCY SENSOR QUANTITIES AND GENERAL LOCATIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO PROVIDE AND INSTALL SENSOR WITH SPACING PER MANUFACTURER SPECIFICATIONS AND INCLUDE ADDITIONAL SENSORS IF NECESSARY. CEILING-MOUNTED SENSORS SHALL BE INSTALLED WITHIN MANUFACTURER'S ACCEPTABLE MOUNTING HEIGHT RANGE.

ELECTRICAL PLANS KEY NOTES:

- ① INSTALL NEW 70 AMP, 2-POLE BREAKER IN EXISTING SQUARE-D MDP (400 AMP I-LINE).

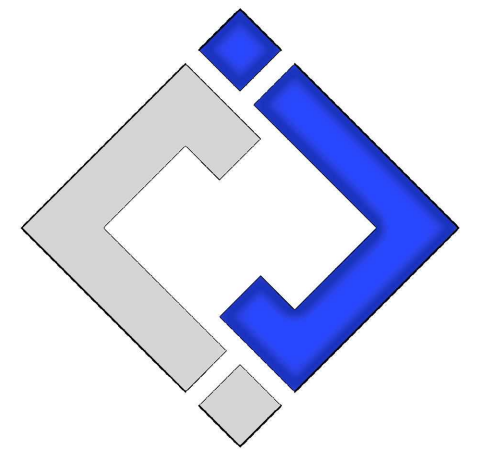


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CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:  
**ELECTRICAL  
PLANS**

SHEET NUMBER:  
**E-101**  
15 OF 19 SHEETS  
07/07/2022

ELECTRICAL SPECIFICATIONS

1. GENERAL
- 1.1.

THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
- 1.2.

PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
- 1.3.

PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
2. MATERIALS
- 2.1. CONDUIT & CONDUCTORS
- 2.1.1.

ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
- 2.1.2.

ABOVE GRADE CONDUCTORS SHALL BE THHN COPPER. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
- 2.1.3.

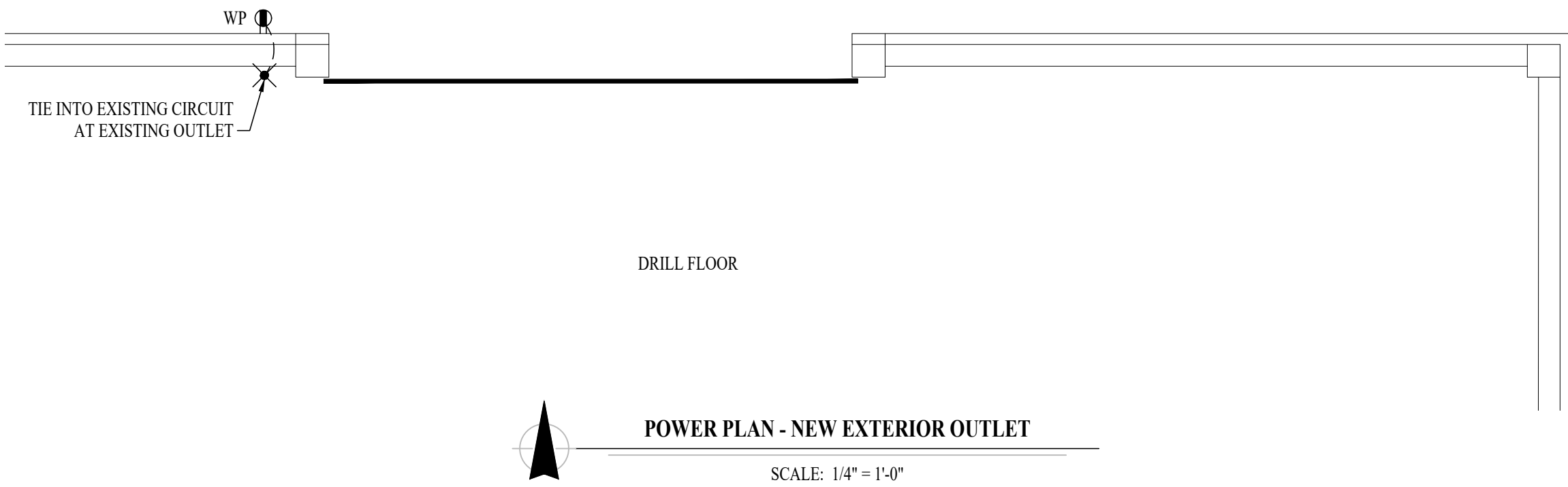
MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
- 2.1.4.

RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
- 2.2. DEVICES
- 2.2.1.

CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
- 2.2.1.

DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON CR20.

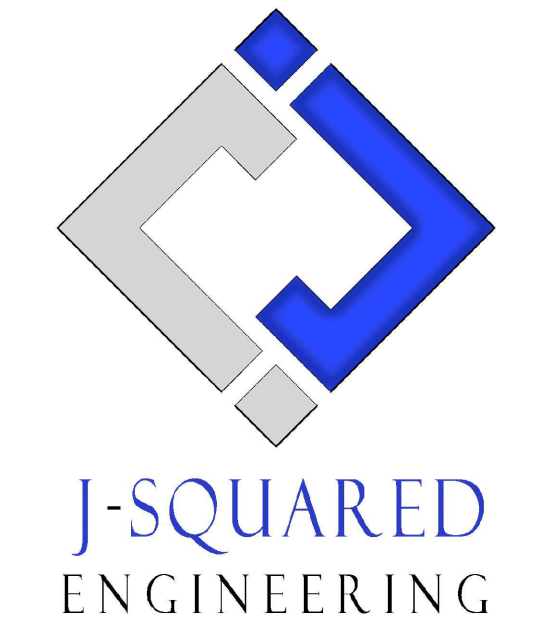
LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
C1	HALO	SLD612-8-35-WH-UNV	6" ROUND LED CAN	SURFACE	1,200	3500	80	120	15	
S1	METALUX	4SLSTP4035DD-UNV	4' LED STRIP LIGHT	WALL / CEILING	4,766	3500	80	120	41	
NOTES: 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION										



STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



James Watson, P.E. July 7, 2022  
PE-2015017071  
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LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_  
REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/07/2022

CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

ELECTRICAL  
DETAILS &  
SCHEDULES

SHEET NUMBER:

E-501

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07/07/2022



SANITARY SEWER PLAN SYMBOL LEGEND

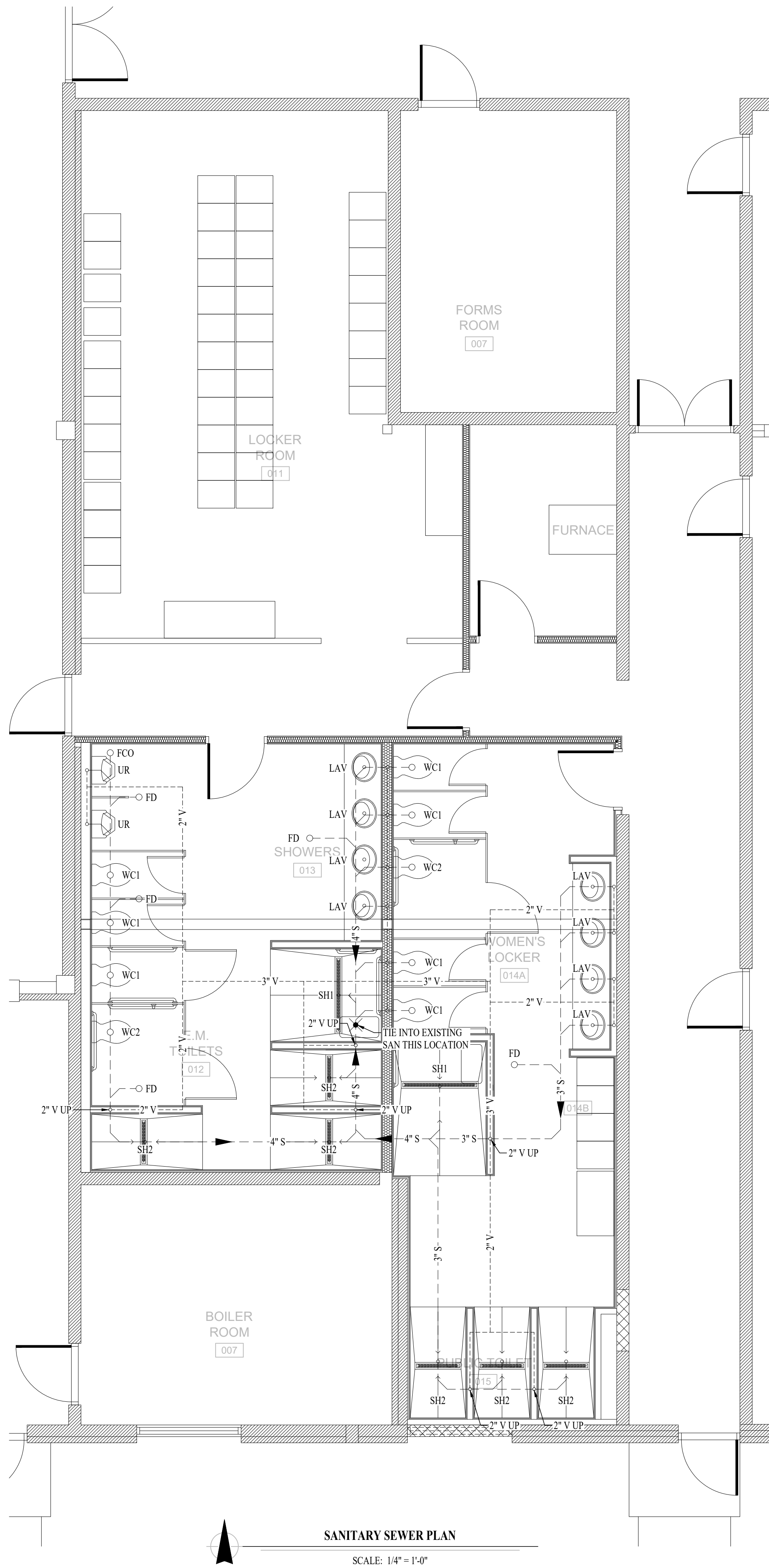
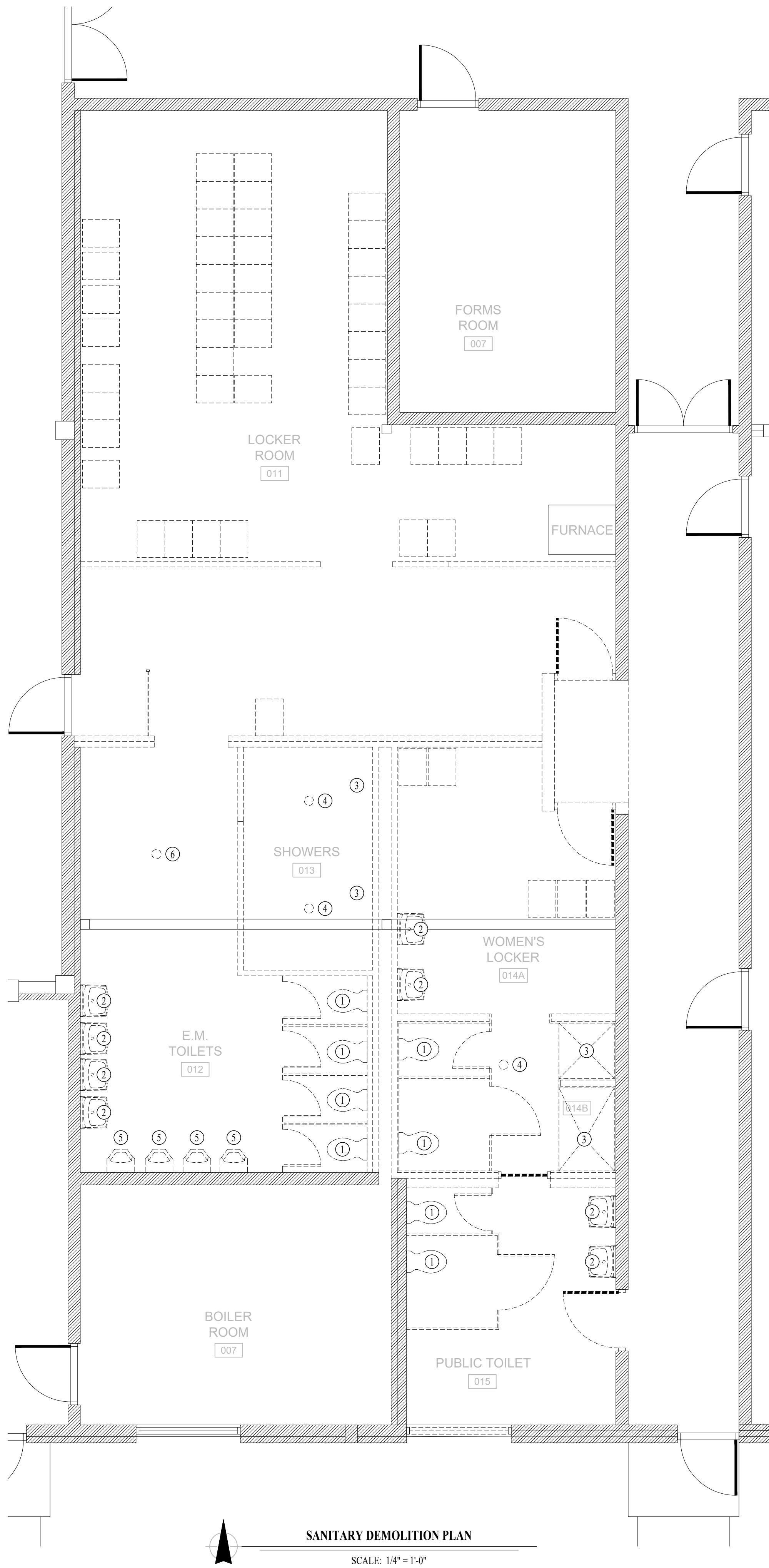
- SANITARY SEWER PIPING
- VENT PIPING
- ○ PIPING TURNED DOWN / TURNED UP
- ✕ TIE INTO EXISTING

SANITARY SEWER PLAN GENERAL NOTES:

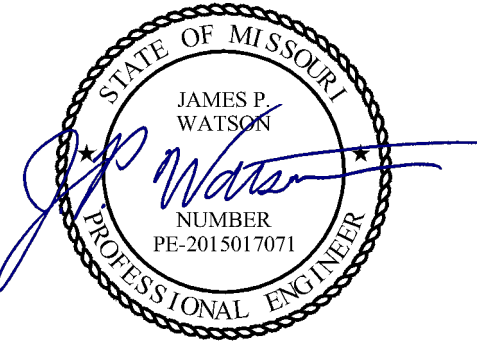
1. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAIL, AND SCHEDULES.

SANITARY SEWER PLAN KEY NOTES:

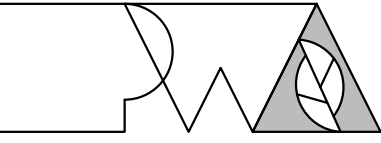
- ① DEMOLISH WATER CLOSET & CAP AT SEWER MAIN.
- ② DEMOLISH LAVATORY & SANITARY BACK TO SEWER MAIN.
- ③ DEMOLISH SHOWER & SANITARY BACK TO SEWER MAIN.
- ④ DEMOLISH FLOOR DRAIN & CAP AT SEWER MAIN.
- ⑤ DEMOLISH URINAL & SANITARY BACK TO SEWER MAIN.



STATE OF MISSOURI  
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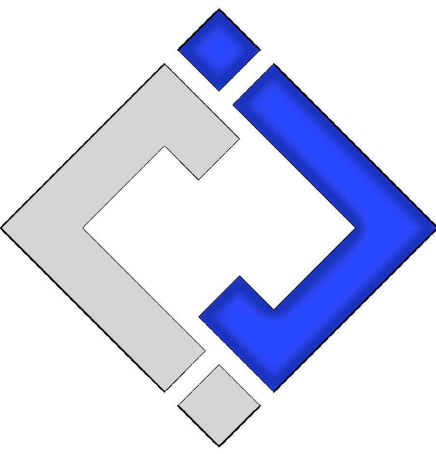


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LATRINE RENOVATION

FULTON READINESS  
CENTER  
1501 WESTMINSTER AVE.  
FULTON, MO

PROJECT # T2137-01  
SITE # 6290  
ASSET # 8136290001

REVISION: \_\_\_\_\_  
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REVISION: \_\_\_\_\_  
DATE: \_\_\_\_\_

ISSUE DATE: 07/07/2022

CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

**SANITARY  
SEWER PLAN**

SHEET NUMBER:

**P-101**

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07/07/2022



WATER PLAN SYMBOL LEGEND

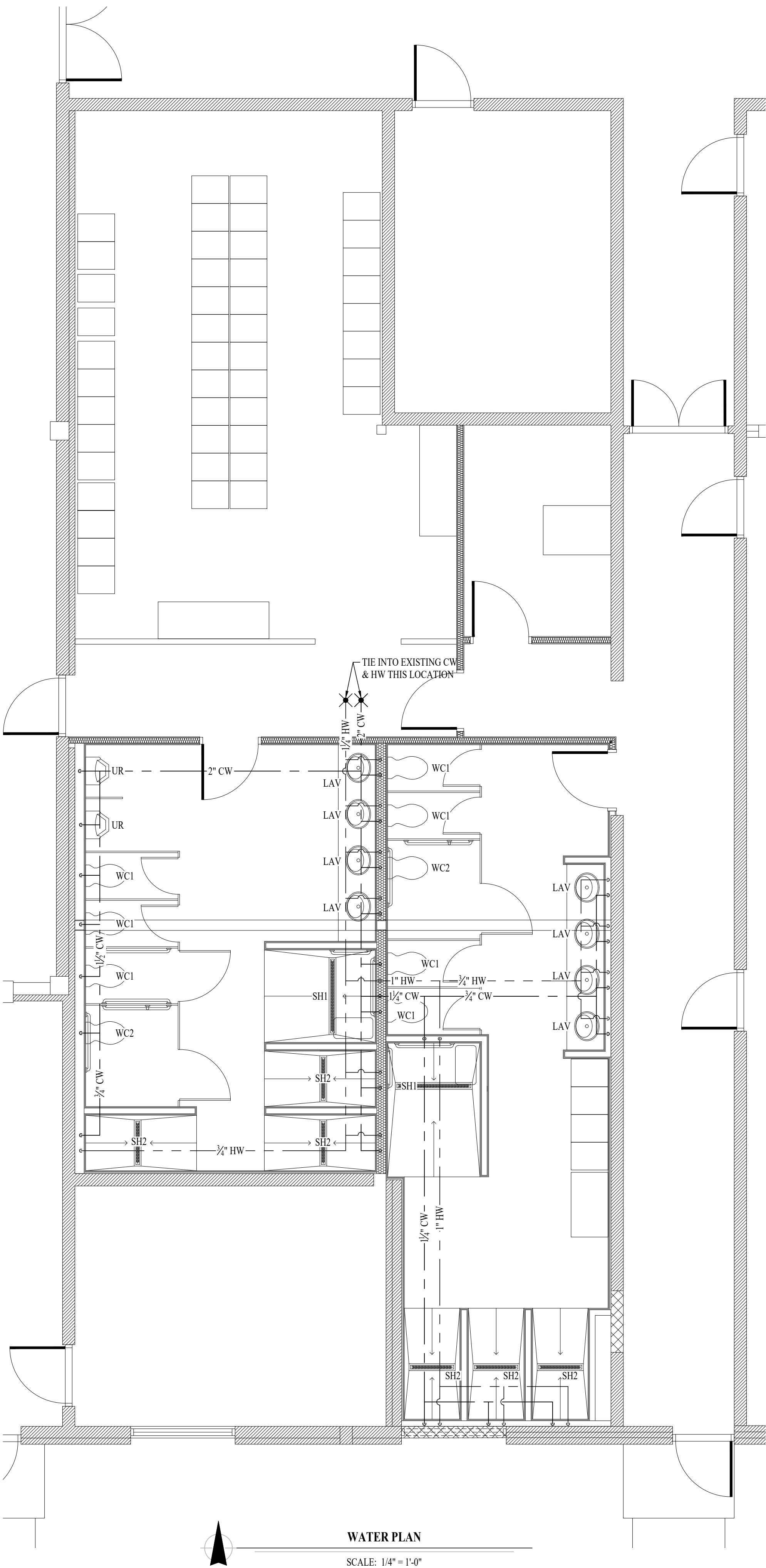
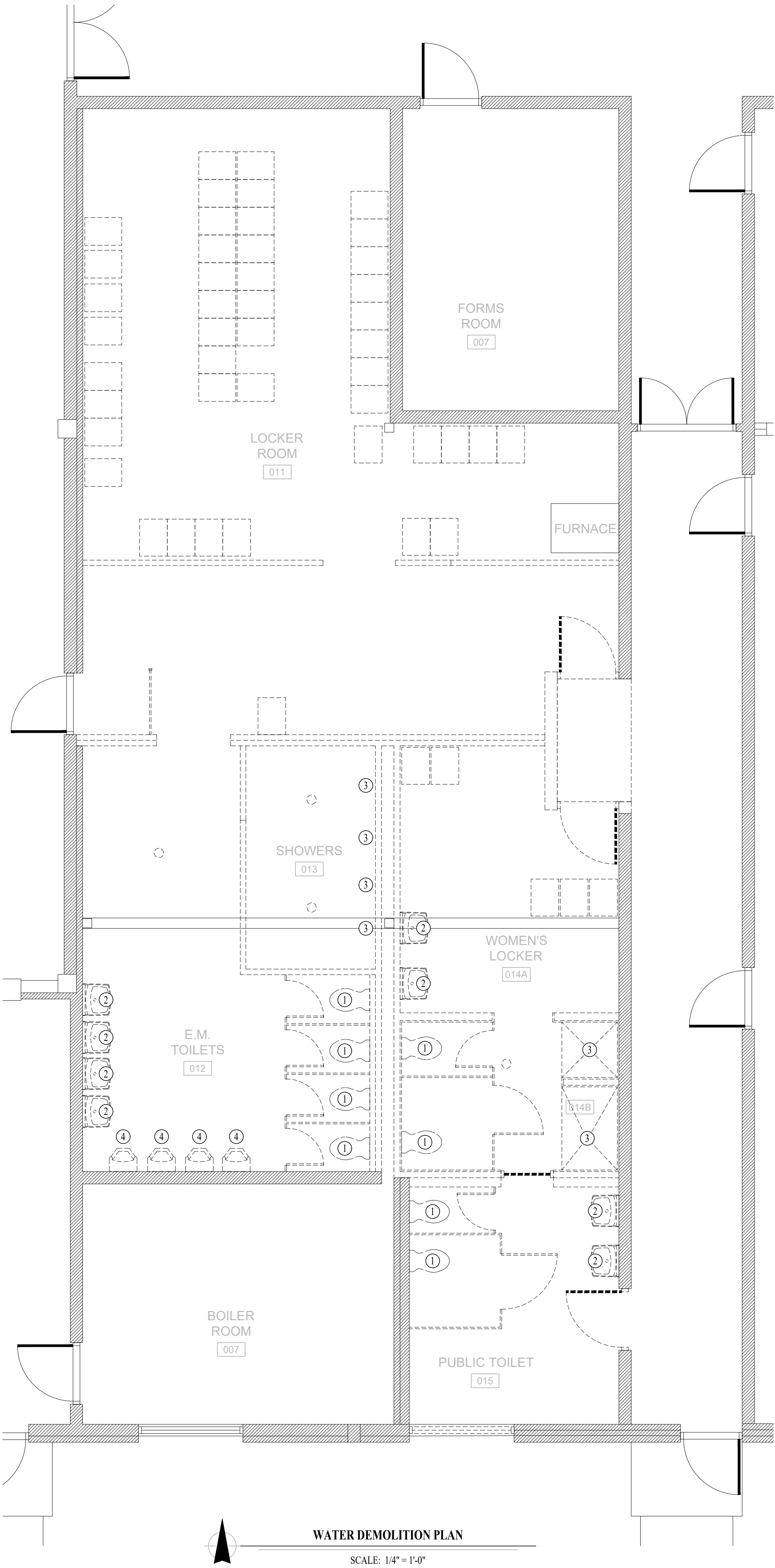
- COLD WATER LINE
- HOT WATER LINE
- HOT WATER RECIRCULATION LINE
- WATER METER
- VALVE
- PUMP
- PIPING TURNED DOWN / TURNED UP
- TIE INTO EXISTING

WATER PLAN GENERAL NOTES:

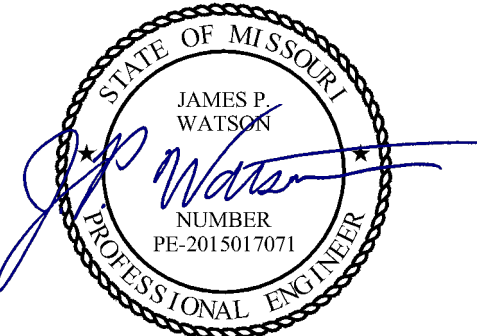
1. SEE SHEET P-501 FOR ADDITIONAL PLUMBING NOTES, DETAILS, & SCHEDULES.

WATER PLAN KEY NOTES:

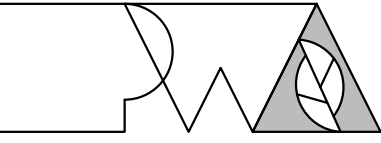
- ① DEMOLISH WATER CLOSET & WATER LINE BACK TO MAIN.
- ② DEMOLISH LAVATORY & WATER LINE BACK TO MAIN.
- ③ DEMOLISH SHOWER & WATER LINES BACK TO MAIN.
- ④ DEMOLISH URINAL & WATER LINE BACK TO MAIN.



STATE OF MISSOURI  
MICHAEL L. PARSON,  
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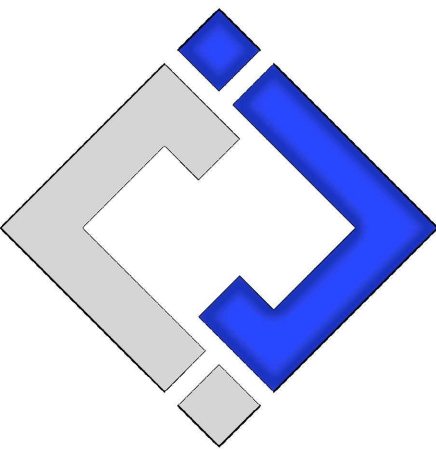


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ISSUE DATE: 07/07/2022

CAD DWG FILE: J20662  
DRAWN BY: DET  
CHECKED BY: JPW  
DESIGNED BY: JAP

SHEET TITLE:

WATER PLAN

SHEET NUMBER:

P-102

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07/07/2022

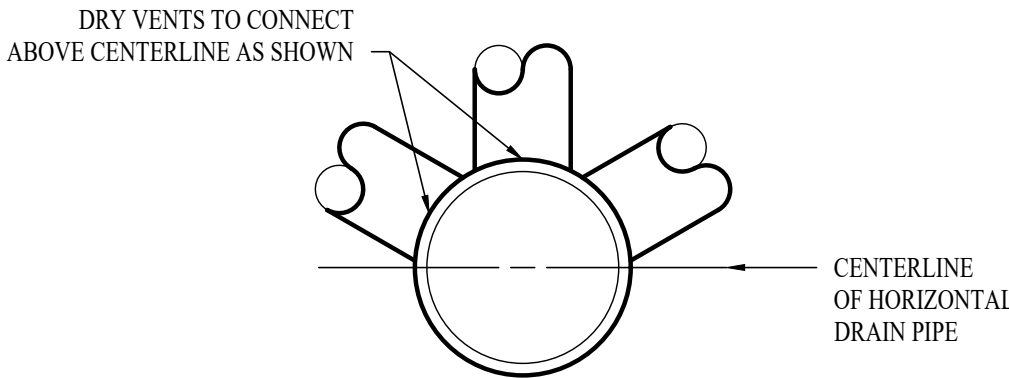


PLUMBING SPECIFICATIONS

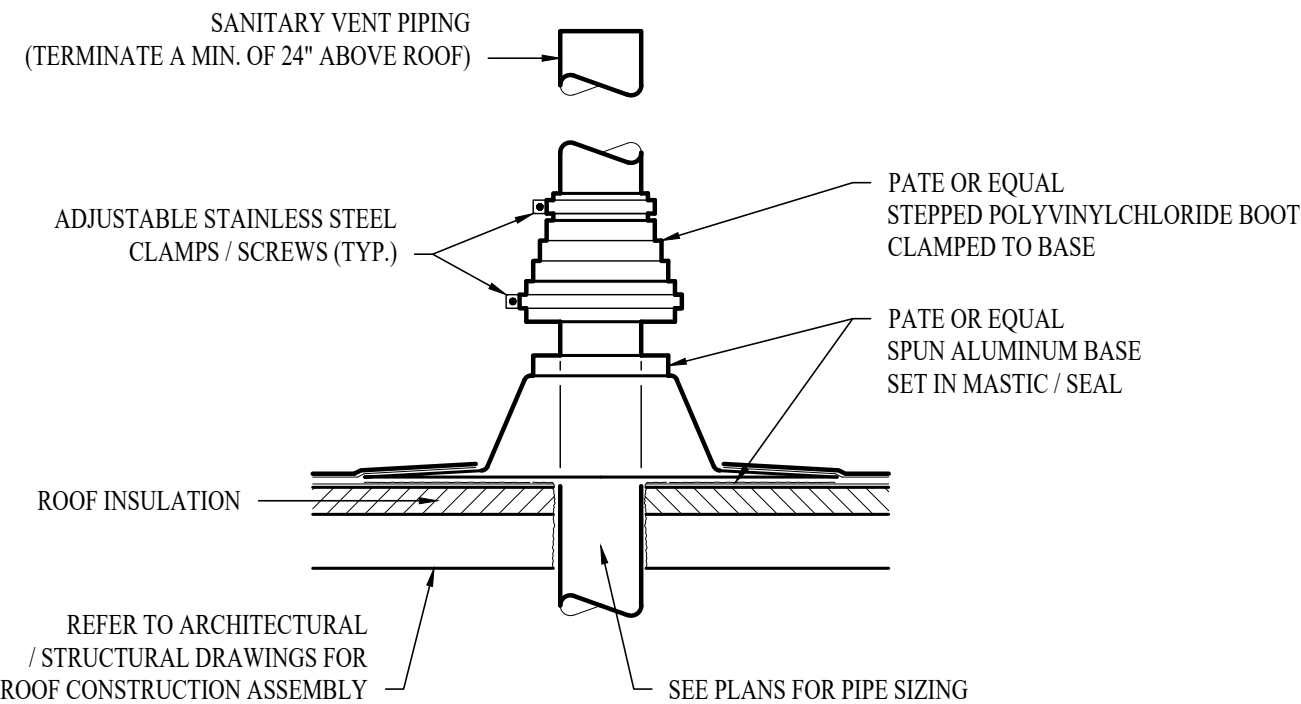
1. GENERAL
- 1.1. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL ESCUTCHEONS, ¼ TURN STOPS, P-TRAPS, AND SUPPLY LINES TO PROVIDE A COMPLETE SYSTEM AT EACH FIXTURE INDICATED ON PLANS UNLESS NOTED OTHERWISE.
2. SANITARY
- 2.1. BELOW AND ABOVE GRADE WASTE AND VENT PIPING IN BUILDING TO BE SOLID CORE SCH. 40 PVC DWV.
- 2.2. NO PIPE SMALLER THAN 2" BELOW GRADE.
- 2.3. WASTE AND VENT PIPING IN PLENUMS TO BE CAST IRON, OR PVC WITH AN INSULATION WRAP LISTED FOR USE AS SUCH AN ASSEMBLY.
- 2.4. ALL VENT PIPE TERMINATIONS ARE TO BE LOCATED EITHER 10' HORIZONTALLY OR 3' ABOVE MECHANICAL AIR INTAKE LOCATIONS.
3. DOMESTIC WATER
- 3.1. DOMESTIC WATER PIPING TO BE EITHER COPPER.
- 3.2. COPPER WATER PIPING BELOW GRADE SHALL BE TYPE "K". BELOW GRADE JOINTS SHALL BE SILVER SOLDERED. THERE SHALL BE NO JOINTS IN WATER PIPING LOCATED BENEATH BUILDING SLAB.
- 3.3. COPPER WATER PIPING ABOVE GRADE SHALL BE TYPE "L".
- 3.4. PROVIDE WATER HAMMER ARRESTORS AT ALL QUICK-CLOSE VALVES. FIXTURES REQUIRING WATER HAMMER ARRESTORS INCLUDE BUT ARE NOT LIMITED TO FLUSH VALVES, SENSOR FAUCETS, AND WASHING MACHINE BOXES. AIR CHAMBERS ARE NOT ACCEPTABLE.
- 3.5. DOMESTIC WATER PIPING INSULATION
- 3.5.1. ALL HW PIPING SHALL BE INSULATED WITH PLENUM-RATED CLOSED CELL ELASTOMERIC INSULATION. FOR PIPING LESS THAN ½", INSULATION THICKNESS TO BE 1". FOR PIPING ½" OR GREATER, INSULATION THICKNESS SHALL BE ½".
- 3.5.2. CW COPPER PIPING TO INSULATED WITH ½" PLENUM-RATED CLOSED CELL ELASTOMERIC INSULATION.
4. GAS PIPING
- 4.1. ABOVE GRADE NATURAL GAS AND LP PIPING TO BE SCH. 40 BLACK STEEL WITH CLASS 150 THREADED FITTINGS.
- 4.2. WHERE PIPING IS EXPOSED ON EXTERIOR FACE OF BUILDING, PAINT TO MATCH BUILDING. PAINT YELLOW IN ALL OTHER LOCATIONS.
- 4.3. ON ROOFTOPS, INSTALL GAS PIPE WITH "ROOFTOP BLOX" PER MANUFACTURE'S INSTRUCTION.

PLUMBING CONNECTION SIZING SCHEDULE					
FIXTURE		SANITARY PIPING		SUPPLY PIPING	
TYPE	TYPICAL ABBREVIATION	WASTE CONNECTION	VENT CONNECTION	COLD WATER CONNECTION	HOT WATER CONNECTION
DRINKING FOUNTAIN	DF	1-1/2"	1-1/4"	1/2"	-
FLOOR DRAIN	FD	3"	2"	-	-
HAND / HAIR SINK	HS / SK	2"	1-1/4"	1/2"	1/2"
HOSE BIBB	HB	-	-	3/4"	-
LAVATORY	LAV	1-1/2"	1-1/4"	1/2"	1/2"
MOP SINK	MS	3"	1-1/2"	1/2"	1/2"
ICE MAKER OUTLET BOX	REF	-	-	1/2"	-
SHOWER	SH	3"	1-1/2"	1/2"	1/2"
URINAL	UR	2"	1-1/4"	3/4"	-
WATER CLOSET (FLUSH TANK)	WC	3"	2"	1/2"	-
WATER CLOSET (FLUSH VALVE)	WC	3"	2"	1"	-
NOTES: 1. SIZES SHOWN ABOVE ARE TYPICAL UNLESS NOTED OTHERWISE ON PLANS					

PLUMBING FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER (OR EQUAL / SEESPECS)	MODEL (OR EQUAL / SEESPECS)	NOTES
FCO	FLOOR CLEANOUT	ZURN	Z1400	
FD	FLOOR DRAIN	ZURN	Z415-BZ	WITH Z1072 TRAP SEAL
LAV	LAVATORY FAUCET	ZURN	Z81104-XL	WITH 1/4 TURN STOPS, BRAIDED STAINLESS STEEL SUPPLIES, & TRAP INSULATION
SH1	SHOWER - 48" LINEAR DRAIN	ZURN	ZS880	WITH MOEN #T9342EP15, 3360, & 837IHD SHOWER TRIM
SH2	SHOWER - 28" LINEAR DRAIN	ZURN	ZS880	WITH MOEN #T9375EP15 & 837IHD SHOWER TRIM
UR	URINAL - MANUAL FLUSH	AMERICAN STANDARD	6550.001	WITH ZURN Z6003AV-WS1 MANUAL FLUSH VALVE (1.0 GPM/FLUSH)
WC1	WATER CLOSET - STANDARD HEIGHT - MANUAL FLUSH VALVE	AMERICAN STANDARD	2234.001	WITH ZURN Z6000A V-WS1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
WC2	WATER CLOSET - ADA HEIGHT - MANUAL FLUSH VALVE	AMERICAN STANDARD	3043.001	WITH ZURN Z6000A V-WS1 MANUAL FLUSH VALVE (1.6 GPM/FLUSH) AND CHURCH 9500SSCT SELF SUSTAINING SEAT
NOTES: 1. VERIFY NECESSARY FIXTURES MEET ADA REQUIREMENTS WITH ARCHITECT PRIOR TO INSTALLATION				



DRY VENT DETAIL

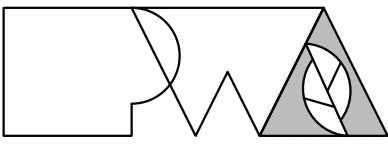


SANITARY VENT THRU ROOF DETAIL

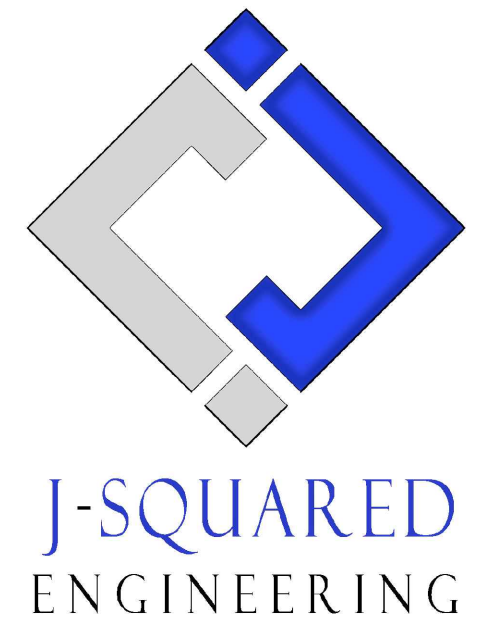
STATE OF MISSOURI  
MICHAEL L. PARSON,  
GOVERNOR



James Watson, P.E. July 7, 2022  
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PLUMBING  
DETAILS &  
SCHEDULES

SHEET NUMBER:

P-501

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07/07/2022