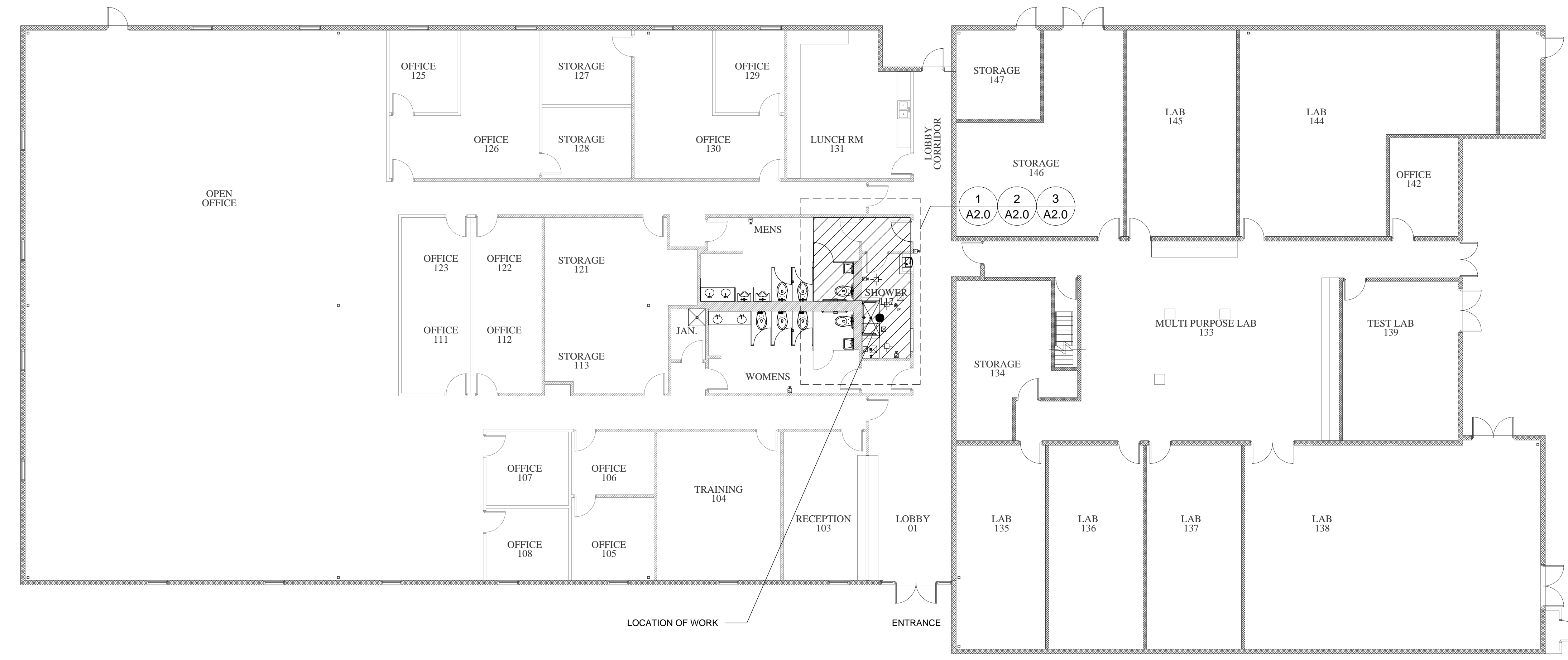


**ATTACHMENT “A-1”  
PLANS**



1  
A0.1  
SCALE: APROX 1" = 100'



2  
A0.1  
SCALE: 1" = 10'-0"

**CURRENT CODES**

BUILDING	2010 FLORIDA BUILDING CODE
RESIDENTIAL EXISTING	2010 FLORIDA RESIDENTIAL CODE
ACCESSIBILITY	2010 FLORIDA EXISTING BUILDING CODE
ENERGY	2010 FLORIDA ACCESSIBILITY CODE
PLUMBING	2010 FLORIDA ENERGY CONSERVATION CODE
MECHANICAL	2010 FLORIDA PLUMBING CODE
FUEL GAS	2010 FLORIDA MECHANICAL CODE
ELECTRICAL	2010 FLORIDA FUEL GAS CODE
FIRE	2008 NATIONAL ELECTRIC CODE
FIRE ALARM	2010 FLORIDA FIRE PREVENTION CODE
	2009 NFPA 101 LIFE SAFETY CODE
STRUCTURAL	ASCE STANDARD 7-10
FIRE ALARM	FIRE ALARM AND SIGNALING CODE NFPA 72 - 2010

**OCCUPANCY CALCULATION**

PROJECT/BUILDING AREA	19218 SQ/FT		
SO/FT. OCCUPANT GROSS U.N.O.			
BUSINESS	100	11,008 SQ/FT	111
INDUSTRIAL	100	8,210 SQ/FT	82.1
TOTAL OCCUPANTS			194 PEOPLE

**FIXTURE CALCULATION**

TOILET CALCULATIONS ARE BASED ON THE FLOOR AREA OF THIS PROJECT PL: 403.3 THE OCCUPANT LOAD SHALL BE COMPOSED 50 PERCENT OF EACH SEX.

OCCUPANTS CLASSIFICATION:	FEMALE: 97	MALE: 97			
	INDUSTRIAL				
	REQUIRED	PROVIDED			
	FEMALES MALES	FEMALES MALES			
LAVATORIES: 1:40-80	1:80-BALANCE	3	3	3	3
WATER CLOSETS: 1:100		1	1	5	5
URINALS:					2
DRINKING FOUNTAINS: 1:100		1		1	H/LO
HAND WASH:		-		-	
MOP SINK:		1		1	
SHOWER:		-		-	1 UNISEX

**OWNER:** FLORIDA DEPARTMENT OF TRANSPORTATION MATERIALS LAB DISTRICT 4  
**ADDRESS:** 14200 WEST STATE ROAD 84 DAVIE, FL. 33325-5300  
**PROPERTY INFORMATION:** MAILING ADDRESS: 3400 W COMMERCIAL BLVD. FT. LAUDERDALE, FL 33309. ID: 5040 03 01 0150 USE: 87

**SCOPE:**  
 THIS IS AN EXISTING BUILDING. THE CURRENT SHOWER IS ACCESSIBLE ONLY THROUGH THE MENS REST ROOM. ACCESS TO THE SHOWER ROOM IS BEING RELOCATED, THE SHOWER ROOM IS BEING REMODELED, A NEW ACCESSIBLE RESTROOM IS BEING ADDED TO THE MENS ROOM.

MECHANICAL - RELOCATION OF EXISTING SUPPLY AND EXHAUST FANS  
 PLUMBING - RELOCATION OF FIXTURES  
 ELECTRIC - RELOCATION OF LIGHTING

**BUILDING / PROJECT DATA**

BUILDING AREA: EXISTING 19,218 SF  
 PROJECT AREA: 230 SF  
 TOTAL AFTER CONSTRUCTION: NO CHANGE TO BUILDING AREA

REQUIRED NUMBER OF EXITS: 2 FROM ALL AREAS  
 OCCUPANCY SEPARATION: 2 HR  
 TABLE 508.4, 709.1, L.S. TABLE 6.1.14.4.1  
 OCCUPANT LOAD: 111 PERSONS

**BUILDING CLASSIFICATION**

- A1 - FIXED SEATING
- A2 - FOOD AND/OR DRINKS
- A3 - WORSHIP, RECREATION
- A4 - INDOOR SPORTS
- A5 - STADIUMS BLEACHERS
- B - BUSINESS
- E - EDUCATIONAL
- F1 - FACTORY (MODERATE HAZARD)
- F2 - FACTORY (LOW HAZARD)
- F3 - FACTORY (SPECIAL PURPOSE)
- H - HIGH HAZARD
- R1 - RESIDENTIAL (TRANSIENT)
- R2 - RESIDENTIAL (2+ DWELLINGS)
- R3 - RESIDENTIAL (PERMANENT)
- R4 - RESIDENTIAL CARE >16 PERSONS
- S1 - STORAGE (MODERATE HAZARD)
- S2 - STORAGE (LOW HAZARD)
- U - UTILITY / MISCELLANEOUS
- D - DAYCARE

**CONSTRUCTION TYPE**

- TYPE I: BUILDING ELEMENTS ARE NON COMBUSTIBLE
- TYPE II: EXTERIOR WALLS NON COMBUSTIBLE | INTERIOR - ANY
- TYPE III: EXTERIOR WALLS NON COMBUSTIBLE | INTERIOR - ANY
- TYPE IV: HEAVY TIMBER
- TYPE V: EXTERIOR & INTERIOR ANY MATERIAL PERMITTED BY CODE

**FIRE RATING REQUIREMENTS**

PRIMARY STRUCTURAL FRAME	1
BEARING WALLS: EXTERIOR:	1
INTERIOR:	1
NONBEARING WALLS & PARTITIONS: EXTERIOR:	0
INTERIOR:	0
FLOOR CONSTRUCTION: & SECONDARY MEMBERS	1
ROOF CONSTRUCTION: & SECONDARY MEMBERS	1
FINISHES: INTERIOR WALL/ CEILING	A,B, OR C
FLOOR:	I OR II
EXIT ACCESS:	A,B, OR C
EXITS:	A OR B
OTHER SPACES:	A,B, OR C

**SHEET INDEX**

- A0.1 - TITLE PAGE
- A2.0 - DEMOLITION PLANS, FLOOR PLAN & REFLECTED CEILING PLAN
- A4.0 - ENLARGED RESTROOM PLAN, & MOUNTING HEIGHT REQUIREMENTS
- M-1 - HVAC GENERAL NOTES, SYMBOLS & SCHEDULES
- M-2 - MECHANICAL HVAC PLAN
- M-3 - MECHANICAL HVAC DETAILS
- P-1 - PLUMBING LEGEND, NOTES, SCHEDULES & DETAILS
- P-2 - PLUMBING PLAN
- P-3 - PLUMBING WASTE-VENT & WATER RISER
- E-1 - ELECTRICAL LEGEND, SPECIFICATIONS & ABBREVIATIONS
- E-2 - ELECT. POWER/LIGHTING SYSTEMS DEMONEW WORK PLAN
- GN1 - GENERAL NOTES
- GN2 - GENERAL NOTES
- GN3 - GENERAL NOTES
- GN4 - GENERAL NOTES
- C1 - COMMENTS & RESPONSES



DATE: 12-12-2013  
 INITIAL PLAN FOR REVIEW PRIOR TO PUBLICATION  
 ROBERT S. LEWIS REG #: AR91402

**CONSULTANTS :**

**OFFICE INFORMATION**

DRAWN BY : RSL  
 CHECKED BY : RSL  
 ISSUE DATE : 12/12/2013  
 FILE NAME : CA\PROJ1200\1201

**REVISIONS :**

REV #	DATE	DESCRIPTION
1		

**PROJECT TITLE :**  
**FDOT - MATERIALS LAB SHOWER RENOVATION**

14200 W STATE ROAD 84, DAVIE  
 ID#: 5040 03 01 0150 MILAGE: 2412 USE: 87  
 COMMISSION #: 1347

**SHEET TITLE :**  
**TITLE PAGE**

A0.1

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DATE: 12-12-2013  
 INITIAL-PLAN FOR REVIEW  
 PRIOR TO PUBLICATION

ROBERT S. LEWIS REG # : AR91402

CONSULTANTS :

OFFICE INFORMATION

DRAWN BY : RSL  
 CHECKED BY : RSL  
 ISSUE DATE : 12/12/2013  
 FILE NAME : CA\PROJ0300\A1

REVISIONS :

REV #	DATE	DESCRIPTION
1		
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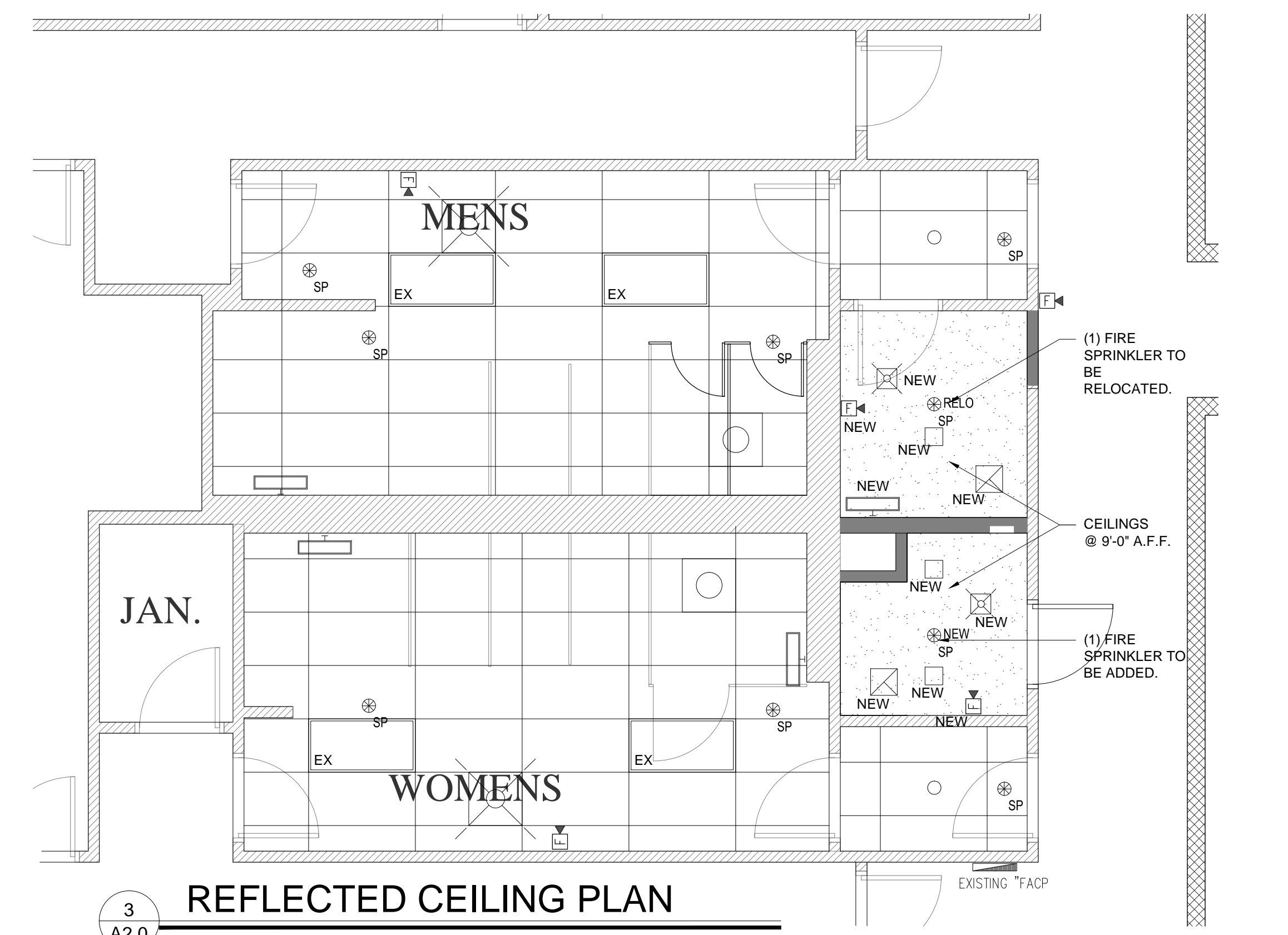
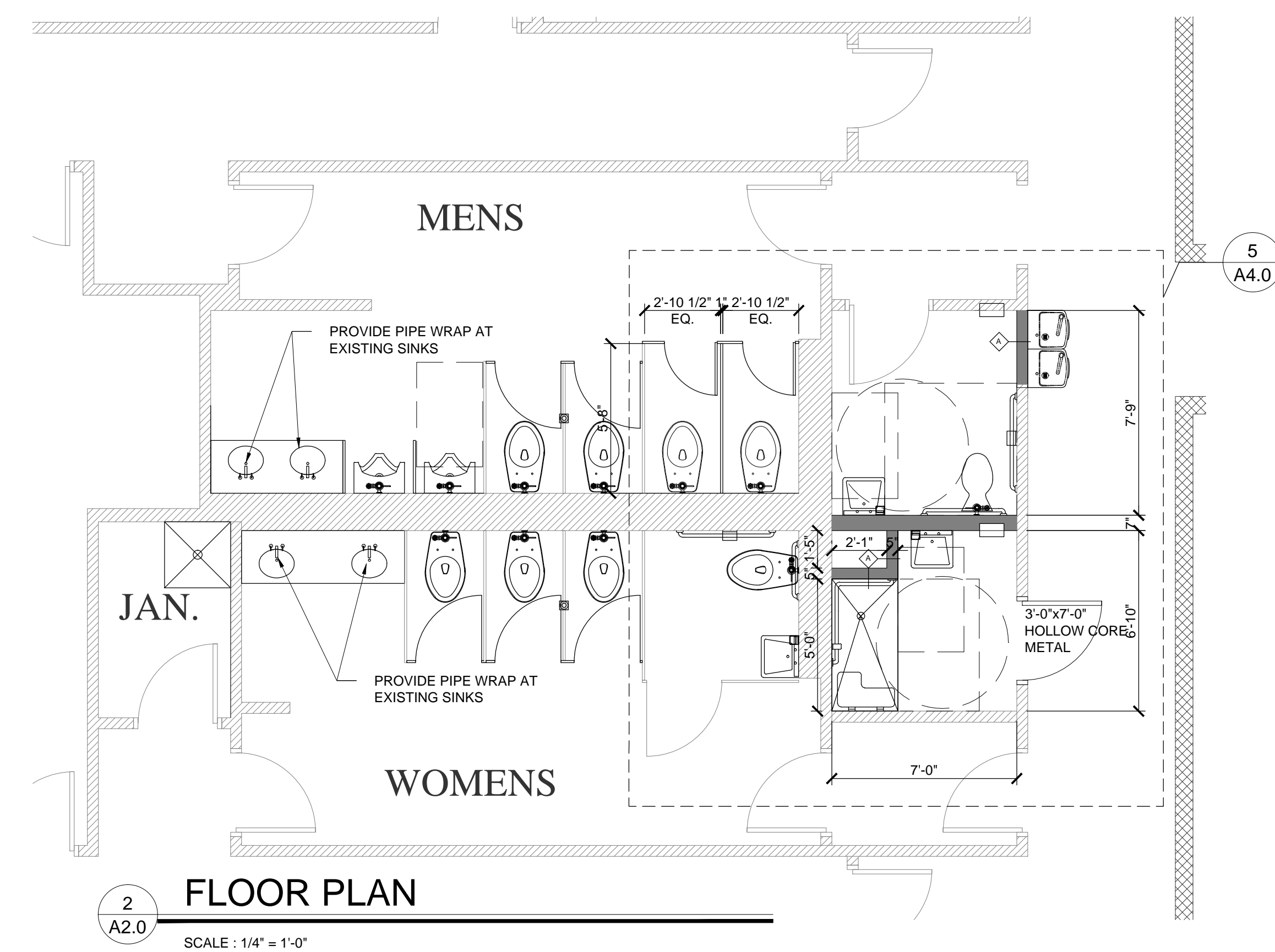
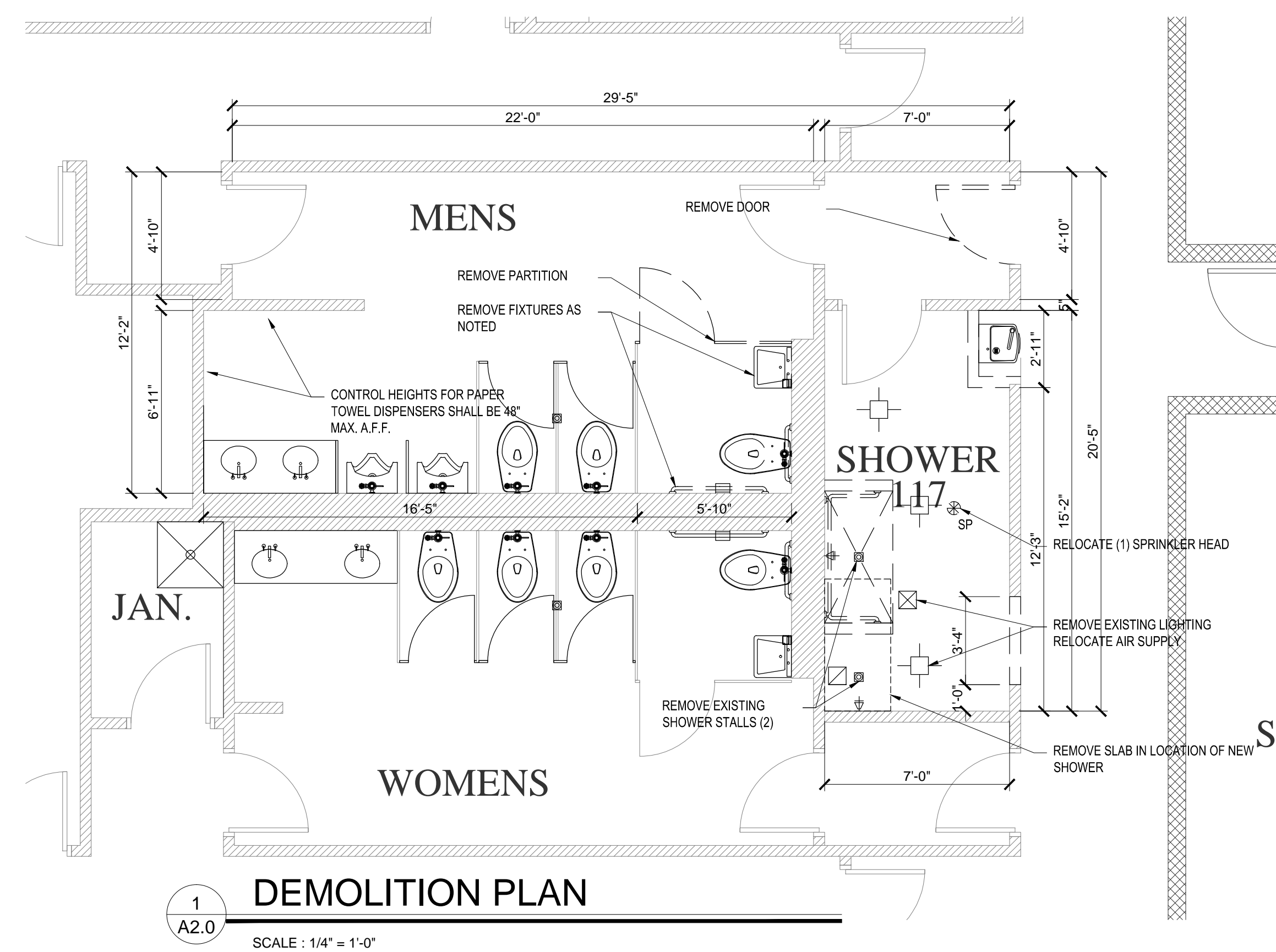
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**FDOT - MATERIALS LAB  
 SHOWER RENOVATION**

14200 W STATE ROAD 84, DAVIE  
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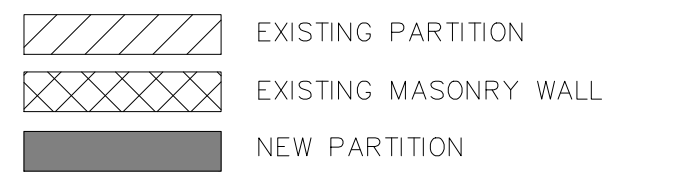
COMMISSION #: 1347

SHEET TITLE :  
**DEMOLITION PLAN &  
 FLOOR PLAN**

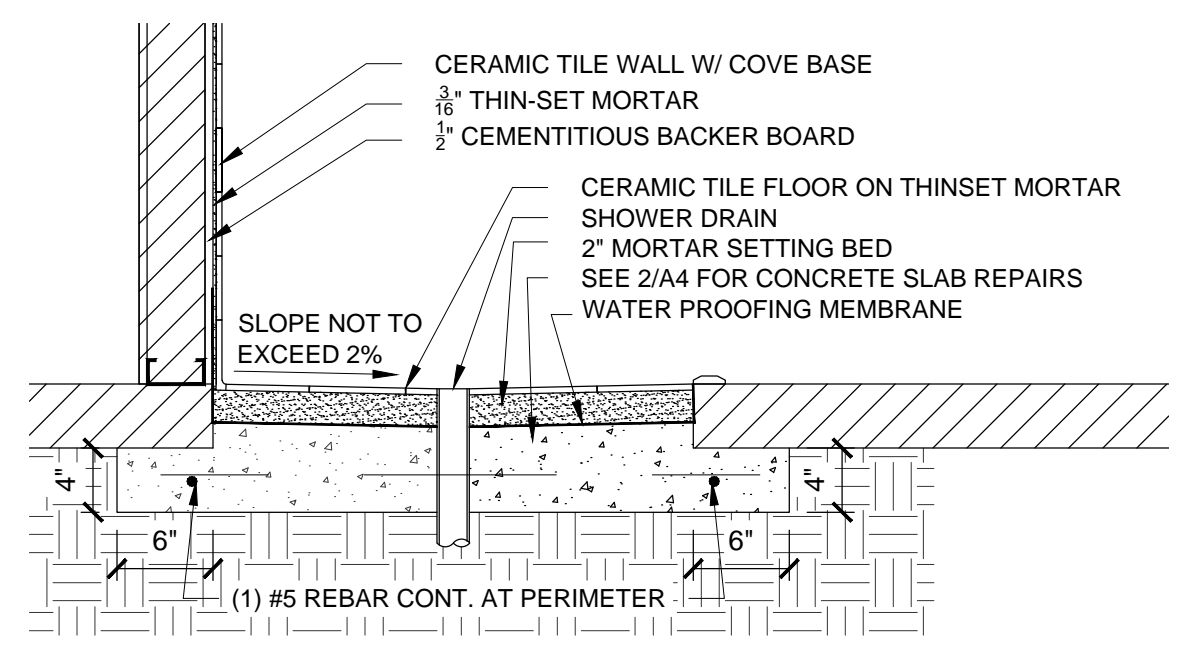
**A-2.0**



**WALL TYPES**



#	CONSTRUCTION	FIRE RATING
A	EXISTING - NON-BEARING 2" X 4" METAL STUDS AT 16" C/C 1/2" GYPSUM EACH SIDE - (2) LAYERS 1/2" MOISTURE RESISTANT IN ALL WET AREAS CEMENTITIOUS BOARD BEHIND ALL TILE WITHIN NON RATED WALLS F-GYPSUM IS AN APPROVED SUBSTITUTE. NOTE: NON RATED WALLS WITHIN EXISTING FACILITIES MAY NOT EXCEED THE FULL HEIGHT TO THE DECK ABOVE. MATCH EXISTING WALL CONDITIONS.	NR
B	EXISTING - NON-BEARING 2" X 6" METAL STUDS AT 16" C/C 1/2" GYPSUM EACH SIDE - (2) LAYERS 1/2" MOISTURE RESISTANT IN ALL WET AREAS CEMENTITIOUS BOARD BEHIND ALL TILE WITHIN NON RATED WALLS F-GYPSUM IS AN APPROVED SUBSTITUTE. NOTE: NON RATED WALLS WITHIN EXISTING FACILITIES MAY NOT EXCEED THE FULL HEIGHT TO THE DECK ABOVE. MATCH EXISTING WALL CONDITIONS.	NR

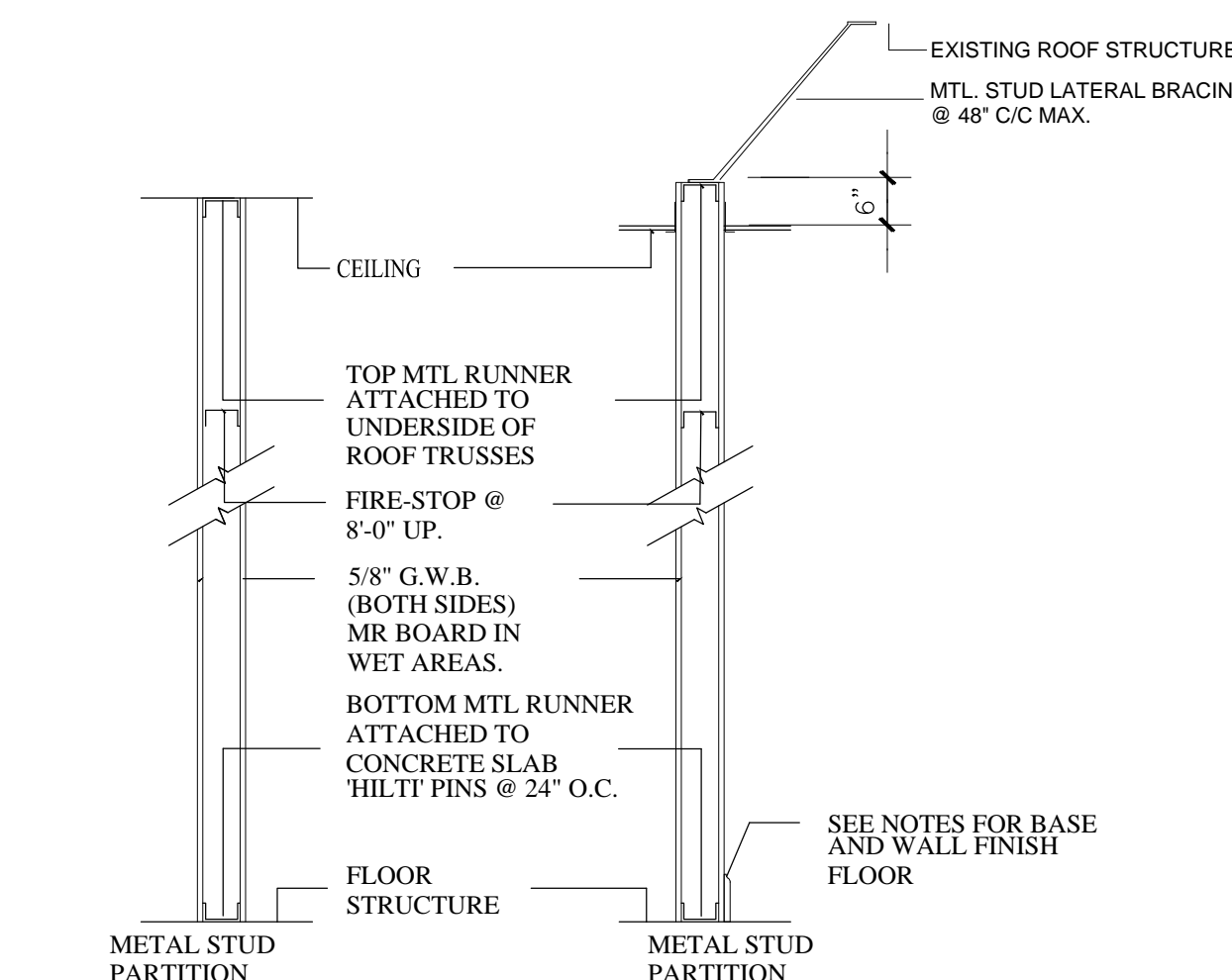


**DOOR SCHEDULE**

ELEV. ID	TYP.	LOCATION	SIZE	DOOR	FRAME	THRESH.	REMARKS
(E)	EXISTING						EXISTING
(2)	INTERIOR		3'-0" x 7'-0"	H.C.M. MATCH EXIST.	SOLID CORE H.MTL. MATCH EXIST.	MATCH EXIST. 1 3/4"	SELF CLOSING 4" BALL BEARING HINGES

NOTE: HARDWARE MATCH EXISTING.  
 (E) HINGE (BUTY 6x4x3 3/8" (GAGER))  
 (E) PULL (2x 1/2" 3/8" (BLACKWOOD))  
 (E) PUSH (2x 1/2" 3/8" (BLACKWOOD))  
 (E) MR BOARD (1/2" 3/8" (BLACKWOOD))  
 (E) STOP (1 1/2" 3/8" (BLACKWOOD))  
 (E) SILENCER (BLACKWOOD)

NOTE:  
 HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.  
 HEAVY DUTY LEVER OPERATED HANDLES ARE ACCEPTABLE DESIGNS.  
 HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" ABOVE FINISHED FLOOR.



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# ACCESSIBLE SIGNAGE TEXT REQUIREMENTS

**CHARACTER PROPORTIONS**  
LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10. UTILIZING AN UPPER CASE 'X' FOR MEASUREMENT.

**CHARACTER HEIGHT:**  
SEE LETTER AND NUMBER HEIGHT CHART BELOW.  
-EXCEPTION CHARACTER HEIGHT SHALL BE 5/8" HIGH MINIMUM FOR BUILDING DIRECTORIES

**FINISH AND CONTRAST:**  
THE CHARACTERS, SYMBOLS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.

**RAISED CHARACTERS AND SYMBOLS:**  
CHARACTER AND SYMBOLS ON TACTILE SIGNS SHALL BE RAISED 1/32" MINIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE IN UPPERCASE CHARACTER. RAISED CHARACTERS AND SYMBOLS SHALL BE 5/8" HIGH MINIMUM AND 2" MAXIMUM. RAISED CHARACTERS AND SYMBOLS SHALL BE ACCOMPANIED BY BRAILLE IN ACCORDANCE WITH THE PROVISIONS OUTLINED BELOW.

**BRAILLE:**  
BRAILLE SHALL BE SEPARATED 1/2" MINIMUM FROM THE CORRESPONDING RAISED CHARACTERS OR SYMBOLS. BRAILLE PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS FOR ELEVATOR CONTROLS SHALL BE PLACED 3/16" MINIMUM BELOW THE CORRESPONDING CHARACTERS OR SYMBOLS. BRAILLE SHALL BE GRADE II AND SHALL CONFORM TO THE SPECIFICATION "800, NATIONAL LIBRARY SERVICE, LIBRARY OF CONGRESS."

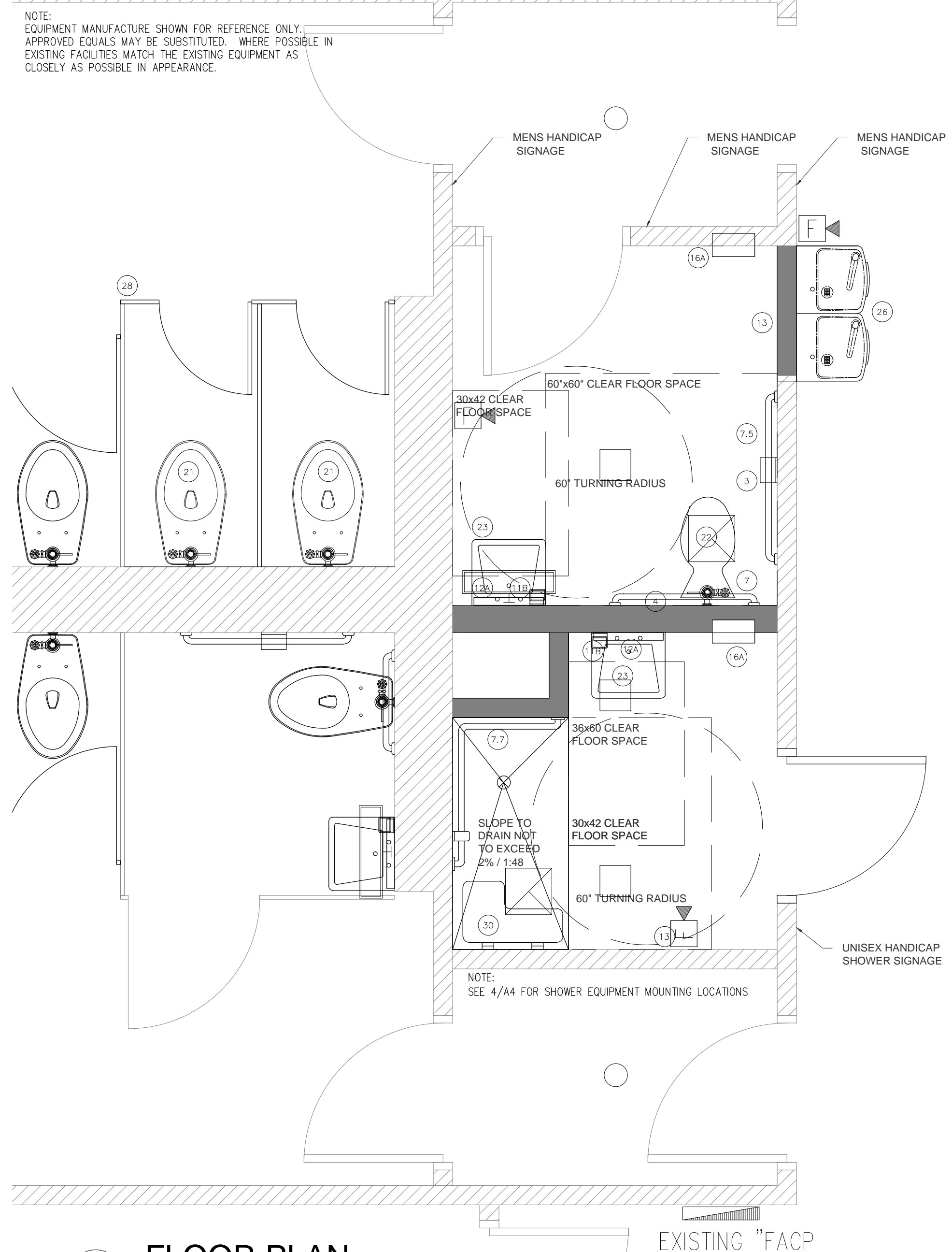
**LOCATION OF TACTILE SIGNAGE:**  
TACTILE SIGNAGE SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE AND SHALL BE MOUNTED AT 60" ABOVE THE ADJACENT FINISHED FLOOR TO THE CENTERLINE OF THE SIGN. IN LOCATIONS HAVING DOUBLE DOORS TACTILE SIGNS SHALL BE MOUNTED TO THE RIGHT OF THE RIGHT HAND DOOR WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF THE DOOR INCLUDING DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL.

**GENERAL NOTE:**  
ANY ADDITIONAL TEXT REQUIRED DUE TO LOCAL ORDINANCES (FINES FOR PARKING IN ACCESSIBLE SPACE, ETC.) SHALL COMPLY WITH THE SIGNAGE REQUIREMENTS ABOVE.

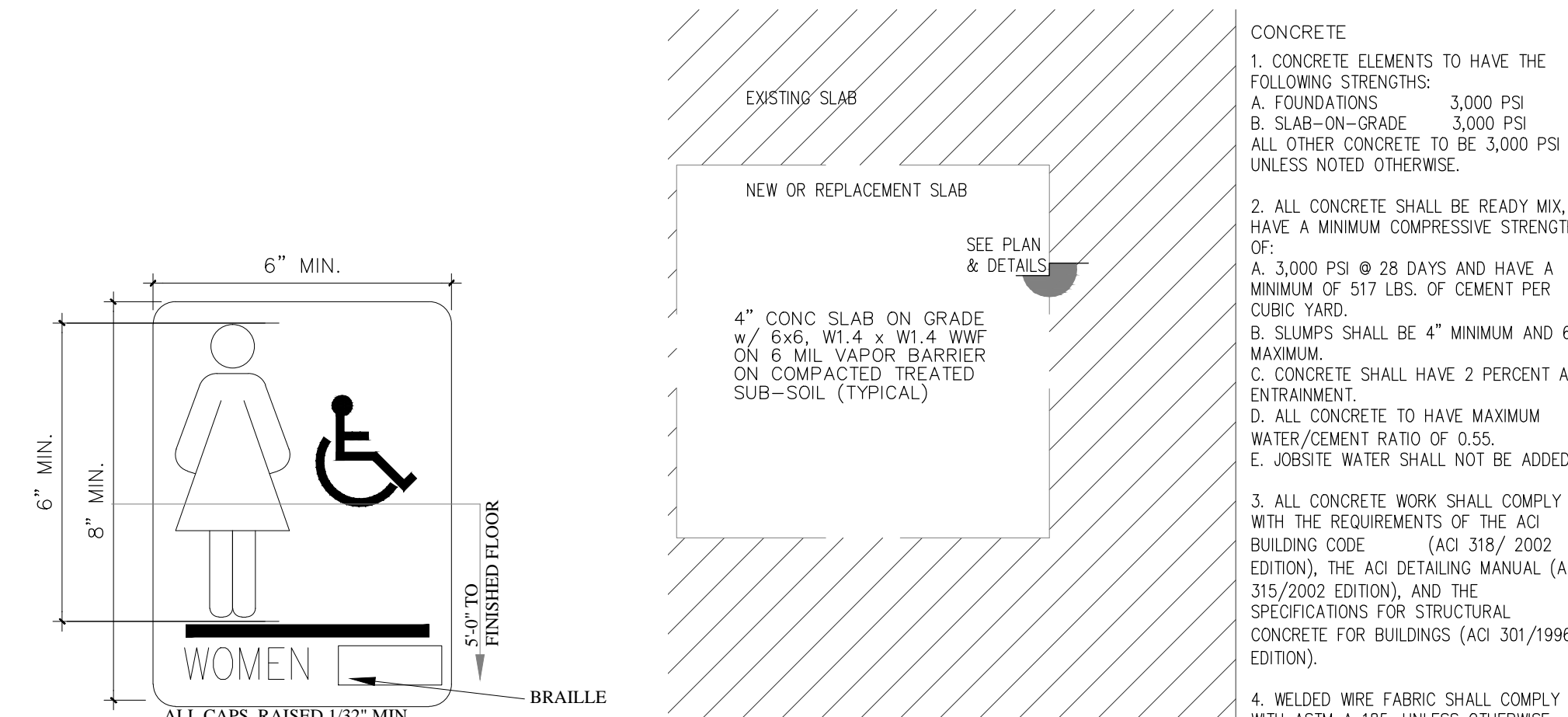
# TOILET ACCESSORY SCHEDULE

SYMBOL	MFG. NO./ (OR APPROVED EQUAL BY SEARS)	DESCRIPTION (SEE SPECIFICATIONS)	MTG HEIGHT
1A	BOBRICK B-3500	FEMENINE NAPKIN DISPENSER, RECS	T 4/4.00
1B	BOBRICK B-270	FEMENINE NAPKIN DISPOSAL, SURFACE	T 4/4.00
2A	BOBRICK B-3094	TOILET PAPER DISP, DBL W/ TAMPON DISP	C 4/4.00
2B	BOBRICK B-4369	TOILET PAPER DISP, DBL 2-SIDED W/ TAMPON DISP	C 4/4.00
3	BOBRICK B-4288	TOILET PAPER DISP	C 4/4.00
4	BOBRICK B-4221	TOILET SEAT COVER DISP.	C 4/4.00
5	BOBRICK B-287	FOLDING UTILITY SHELF 14.5x5.75	T 4/4.00
6	BOBRICK B-212	TOWEL HOOKS	T 4/4.00
7	BOBRICK B-6806-36	36" GRAB BAR - CONCEALED MOUNT	C 4/4.00
7.5	BOBRICK B-6806-42	42" GRAB BAR - CONCEALED MOUNT	C 4/4.00
7.7	BOBRICK B-6861.99	SHOWER TWO-WALL GRAB BAR	C 4/4.00
8	BOBRICK B-5837	CORNER GRAB BAR	T 4/4.00
9	WALL BUMPER	SEE SPECIFICATIONS	B MFR
10	BOBRICK B-700	HAND DRYER	C MFR
11A	BOBRICK B-8221	SOAP DISP, COUNTER MOUNTED	4/4.00
11B	BOBRICK B-4112	SOAP DISP, WALL MOUNTED	4/4.00
12A	BOBRICK B-165 1830	FLAT MIRROR	B MFR
12B	BOBRICK B-865	HCP FLAT MIRROR 24x36	B MFR
13	BOBRICK B-865	FULL LENGTH MIRROR 24x60	4/4.00
14	KOALA HORIZONTAL	BABY CHANGING STATION	C MFR
15	BOBRICK	DISPOSABLE DIAPER DISPENSER	C MFR
16A	BOBRICK B-3960	PAPER TOWEL DISP, RECS W/ GARBAGE	T 4/4.00
16B	BOBRICK B-2277	WASTE RECEPTACLE	T 4/4.00
17	BOBRICK B-2860	PAPER TOWEL DISP, SURF MOUNTED	T 4/4.00
18	AM. STD. 6501.010	URINAL - ZER-6003	B FLOOR
19	CERBER 27-750	URINAL - HCP	T 4/4.00
20	AM. STD. AFWALL	WC W.H. - SEE SPECS	T 4/4.00
21	CERBER 25-830	WC FLOOR MOUNT - ZER-6000 FLUSH VALVE	B 4/4.00
22	CERBER 25-730	WC FLOOR MOUNT - HCP ZER-6000 F.V.	MFR
23	KOHLER K2032, 20"	LAV SEE SPECS	T 4/4.00
24	AM. STD. 0355.012	HC LAV SEE SPECS	T 4/4.00
25	KOHLER 1997-1.22"x20"	HC LAV COUNTER SEE SPECS	T 4/4.00
26	OASIS PBACSL	35" WIDE SPLIT LEVEL WATER COOLER	T 4/4.00
27	OASIS PBAM	17-1/2" WIDE	T 4/4.00
28	HADRIAN	BRACED PARTITION STEEL W/ POWDER COATED ANTI-GRAFFITI FINISH' COLOR 826 BEIGE	
29	BRADLEY SERIES 400	BAKED ENAMEL COMPARTMENT, FLOOR MOUNT OVERHEAD BRACED	
30	BOBRICK B-5181	REVERSIBLE FLOOR MOUNT SHOWER SEAT	T 4/4.00

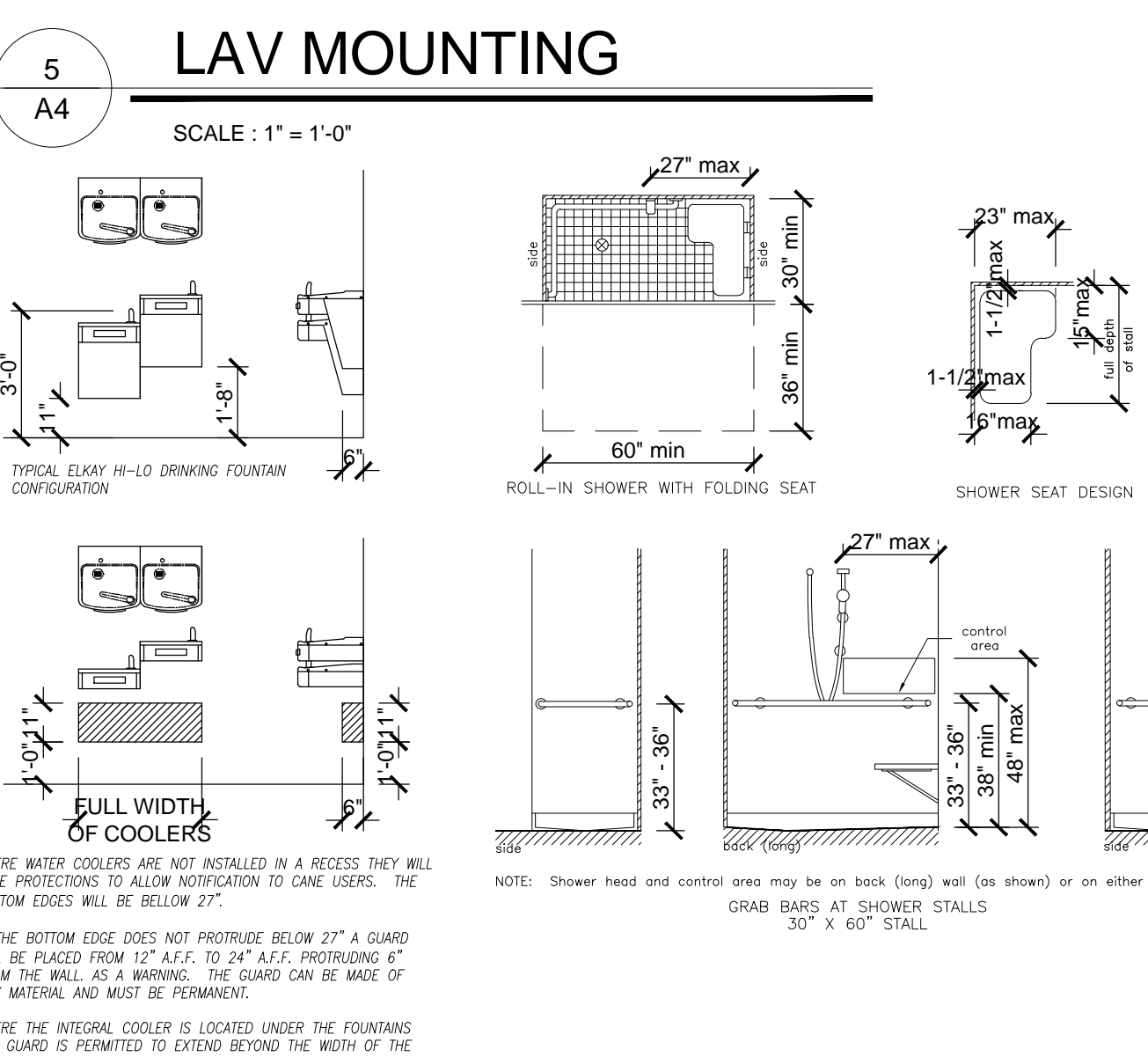
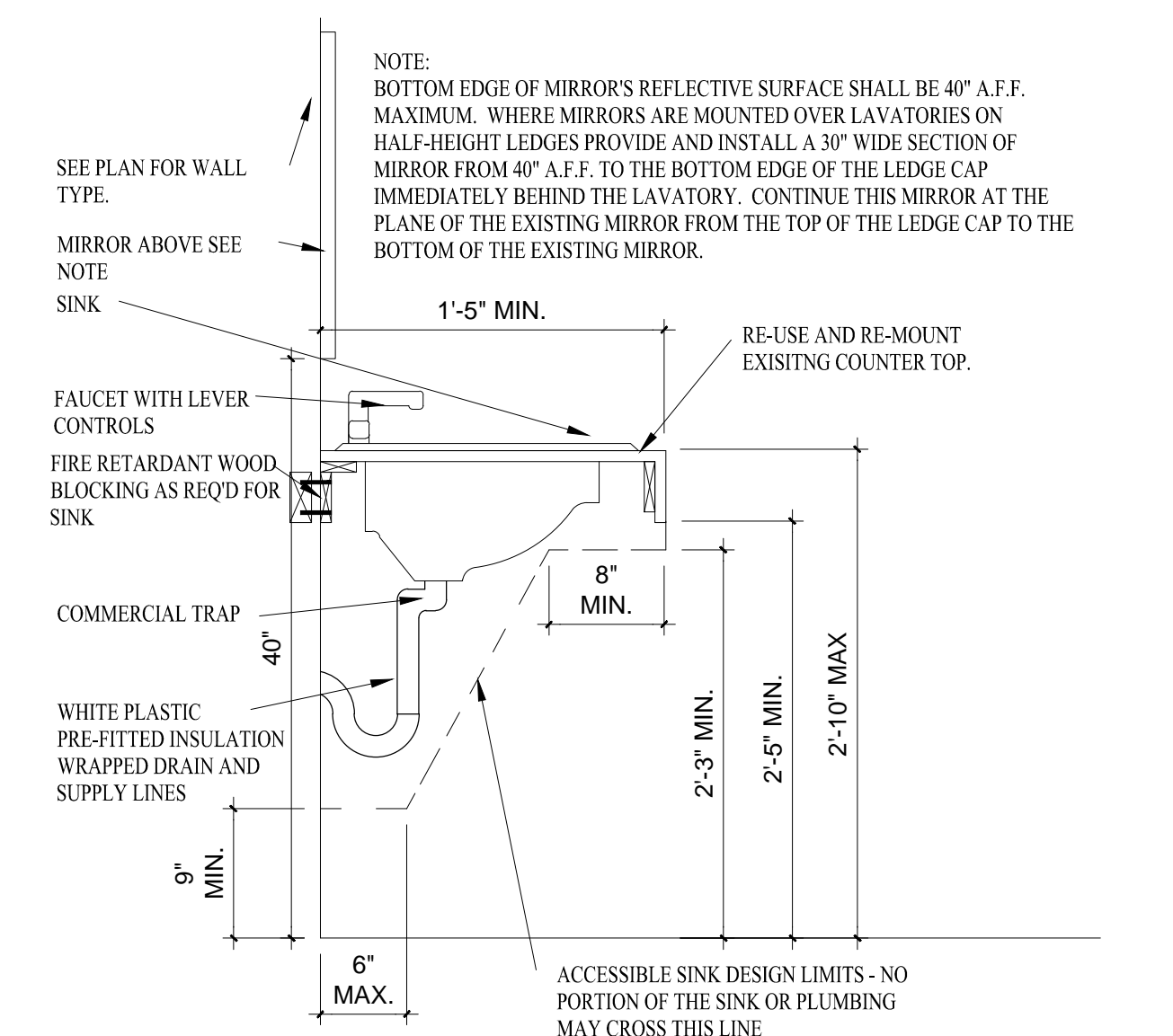
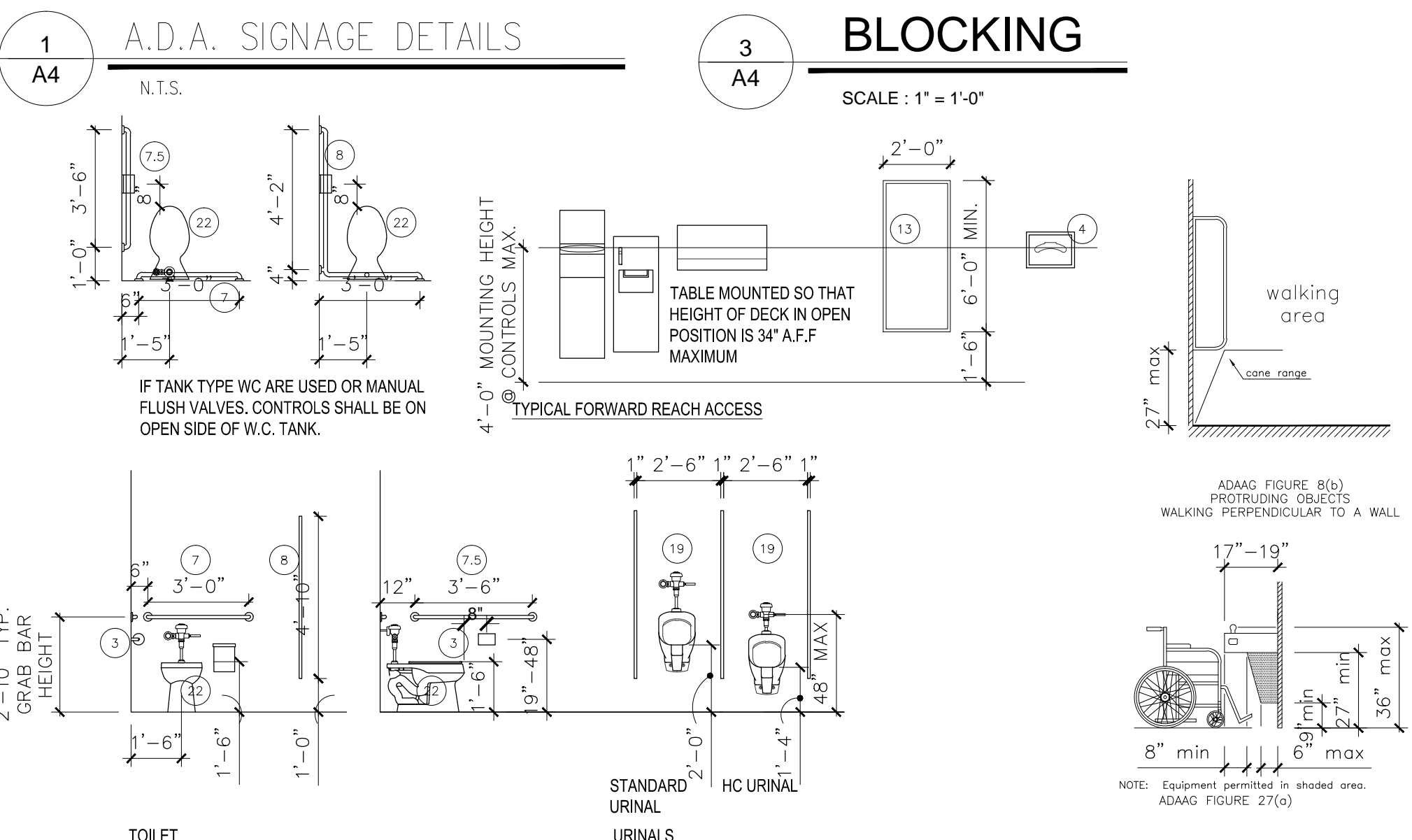
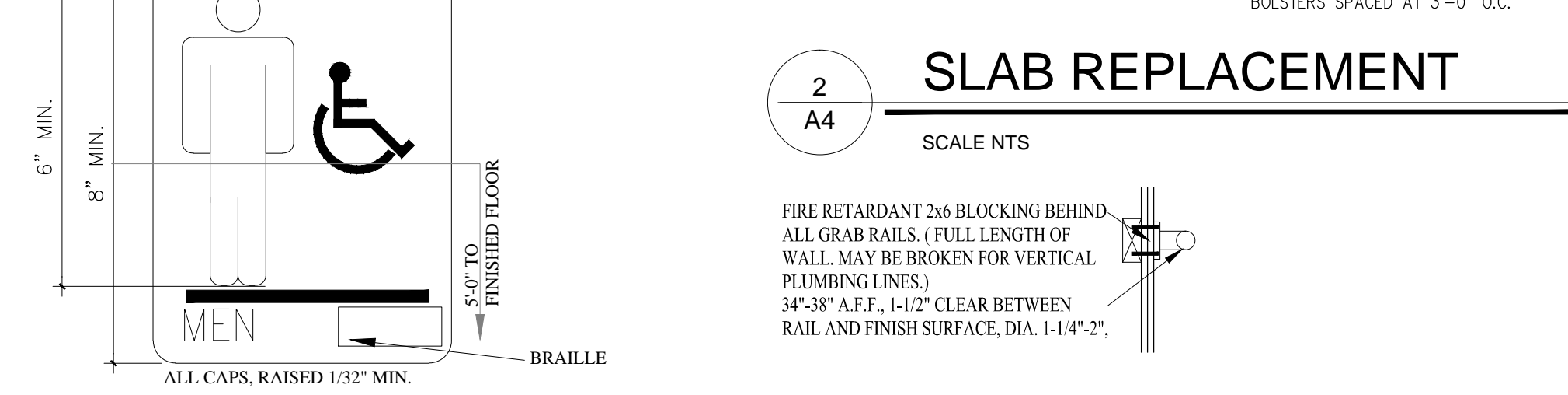
DISP	DISPENSER	DBL	DOUBLE	T	TOP	CLEAR	CLEARANCE
SURF	SURFACE	RECS	RECESSED	B	CENTER BOTTOM	MFR.	HANDICAPPED MANUFACTURER



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



**SLAB REPLACEMENT**  
SCALE: NTS



**ARCHITECTURE**  
**BUILDING IDEAS**  
TRANSFORMING IDEAS INTO REALITY

PH : 1.772.408.6963 475 N.E. Stillwater Cove  
FAX : 1.772.408.6658 Port Saint Lucie, FL 34983

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AA26001089

DATE: 12-12-2013  
INITIAL PLAN FOR REVIEW  
PRIOR TO PUBLICATION

ROBERT S. LEWIS REG # : AR91402

## CONSULTANTS :

## OFFICE INFORMATION

DRAWN BY : RSL  
CHECKED BY : RSL  
ISSUE DATE : 12/12/2013  
FILE NAME : CA\PROJ0300A1

## REVISIONS :

REV #	DATE	DESCRIPTION
1		
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3		
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## PROJECT TITLE :

### FDOT - MATERIALS LAB SHOWER RENOVATION

14200 W STATE ROAD 84, DAVIE  
ID#: 5040 03 01 0150 MILAGE: 2412 USE: 87  
COMMISSION #: 1347

## SHEET TITLE :

### ENLARGED FLOOR PLANS

# A-4.0

# MECHANICAL SYMBOL LEGEND

# GENERAL NOTES:

## DUCTWORK SYSTEM SYMBOLS

SYMBOL	DESCRIPTION
	SUPPLY AIR DUCT SECTION (UP/DOWN)
	RETURN, OUTDOOR OR EXHAUST AIR DUCT SECTION (UP/DOWN)
	OUTDOOR AIR DUCT SECTION (UP/DOWN)
	EXHAUST AIR DUCT SECTION (UP/DOWN)
	RETURN, EXHAUST OR TRANSFER AIR FLOW
	SUPPLY AIR FLOW
	MOTORIZED DAMPER
	MANUAL VOLUME DAMPER
	FIRE DAMPER
	SMOKE DAMPER
	ACCESS DOOR
	FLEXIBLE DUCT CONNECTION
	ELBOW WITH TURNING VANES
	SUPPLY DIFFUSER WITH 4-WAY BLOW
	SUPPLY DIFFUSER WITH 2-WAY BLOW
	SUPPLY DIFFUSER WITH QUADRANT BLOCK
	SD - SIDEWALL DIFFUSER
	RETURN, TRANSFER OR EXHAUST GRILLE OR REGISTER
	EXHAUST FAN
	ROUND CEILING DIFFUSER
	LINEAR DIFFUSER
	AIR DEVICE, TYPE AND CAPACITY
	SQUARE TO ROUND TRANSITION
	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
	EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
	NEW DUCTWORK OR EQUIPMENT
	ROOF CENTRIFUGAL FAN, EXHAUST
	ROOF CENTRIFUGAL FAN, SUPPLY
	ELECTRIC DUCT HEATER
	UNDERCUT

## SCHEDULE FOR 24"x24" CEILING SUPPLY DIFFUSER

SYMBOL	# NECK	FLEX CONNECTION	CFM RANGE	FINISH	REMARKS
4 WAY BLOW	CDP-1	6"	6"	0 - 125	OFF-WHITE (A) (B)
	CDP-2	8"	8"	126 - 225	OFF-WHITE (A) (B)
	CDP-3	10"	10"	226 - 400	OFF-WHITE (A) (B)
	CDP-4	12"	12"	401 - 600	OFF-WHITE (A) (B)
2 WAY BLOW					

## SCHEDULE FOR 24"x24" CEILING RETURN DIFFUSER

SYMBOL	# NECK	FLEX CONNECTION	CFM RANGE	FINISH	REMARKS
RD-1	6"	6"	0 - 125	OFF-WHITE	(C)
RD-2	8"	8"	126 - 225	OFF-WHITE	(C)
RD-3	10"	10"	226 - 400	OFF-WHITE	(C)
RD-4	12"	12"	401 - 600	OFF-WHITE	(C)
RD-5	14"	14"	601 - 900	OFF-WHITE	(C)
RD-6	16"	16"	901 - 1250	OFF-WHITE	(C)

REMARKS:  
 A. ALL SUPPLY DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE SHOWN, METALARE 5000, OR EQUAL BY TITUS.  
 B. DO NOT INSTALL DAMPER IN DIFFUSERS USE DAMPER AT FLEX TAKE-OFF TO BALANCE AIR FLOW.  
 C. ALL RETURN DIFFUSERS SHALL BE METALARE RH, OR EQUAL BY TITUS.

- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE JOB SITE TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING FIELD CONDITIONS AND PHYSICAL CONSTRAINTS ASSOCIATED WITH THE WORK TO BE ACCOMPLISHED UNDER THIS CONTRACT.
- ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND STANDARDS: FLORIDA MECHANICAL CODE 2010 ED, FLORIDA ENERGY CODE, NFPA-90A STANDARDS FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS, SMACNA DUCT CONSTRUCTION STANDARDS, ASHRAE 62.1
- VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE INSTALLED.
- COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE THE INSTALLATION OF HVAC EQUIPMENT AND MATERIALS.
- PROVIDE WEATHER PROTECTION FOR ALL EQUIPMENT AND MATERIALS STORED ON SITE.
- VENTILATION DUCTWORK SHALL BE SHEET METAL AND INSTALLED IN ACCORDANCE WITH SMACNA. ALL OTHER DUCTWORK SHALL BE AS SHOWN ON THE PROJECT PLANS. DUCTWORK INSULATION SHALL COMPLY WITH THE FLORIDA ENERGY CODE.
- REFER TO ELECTRICAL CEILING GRID LIGHTING PLAN FOR EXACT LOCATION OF AIR DISTRIBUTION DEVICES
- PROVIDE ALL DUCT TRANSITIONS REQUIRED TO CONNECT EQUIPMENT SHOWN TO DUCT SYSTEMS.
- PROVIDE DUCT MOUNTED SMOKE DETECTORS ON THE SUPPLY OF ALL AIR HANDLING SYSTEMS 2000 CFM AND GREATER.
- PROVIDE AIR BALANCE TO QUANTITIES SHOWN ON THE PLANS. PROVIDE ALL VOLUME DAMPERS REQUIRED TO ACCOMPLISH AIR BALANCE.—SUBMIT BALANCE REPORT FOR REVIEW
- SYSTEM TEST & BALANCE REPORT TO BE INCLUDED WITH INSTALLATION PROVIDE REPORT TO OWNER AND ENGINEER FOR REVIEW INSTALLATION WILL NOT BE CONSIDERED COMPLETE WITHOUT T&B REPORT

## FIBRE DUCT INSTALLATION DETAILS

### DUCT CONSTRUCTION NOTES

- ALL DUCT WORK, DUCT FITTINGS, DUCT FLEXIBLE CONNECTIONS, AND FLEXIBLE DUCT SHALL BE CONSTRUCTED AND INSTALLED, AS A MINIMUM, IN ACCORDANCE AND WITH THE STANDARDS AND RECOMMENDATIONS OF "SMACNA" LATEST PUBLICATIONS AND STANDARDS.
- ALL DUCT WORK SHALL BE CONSTRUCTED OF 1-1/2" FIBRE BOARD EXCEPT EXHAUST DUCTS WHICH SHALL BE SHEET METAL. FIBRE DUCTS SHALL BE CONSTRUCTED WITH 1-1/2" BOARD WITH ANTI-FUNGAL INTERIOR COATING.
- DUCT HANGERS AND SUPPORTS SHALL COMPLY WITH "SMACNA" STANDARDS IN GENERAL. HOWEVER, DUCT STRAPS SHALL BE USED UP TO 48" IN HORIZONTAL DIMENSION (OR ROUND). DUCTS GREATER THAN 48" SHALL BE SUPPORTED WITH TRAPEZOIDAL HANGERS AND STEEL RODS.
- ALL DUCTS SHALL BE OF THE SIZE AND SHAPE AS SHOWN BY CONTRACT DOCUMENTS
- ALL FLEXIBLE DUCTS SHALL COMPLY WITH UL 181. FLEX DUCTS SHALL NOT BE GREATER IN LENGTH THAN 10'. WHERE LENGTHS GREATER THAN 10' ARE SHOWN ON THE PLANS INSTALL ROUND SHEET METAL TO WITHIN 10' OF THE DEVICE BEING SERVED.
- SHEET METAL TURNING VANES SHALL BE PROVIDED IN ALL SUPPLY AND RETURN RECTANGULAR DUCT WITH ANGLES GREATER THAN 30DEG .
- DUCTWORK PENETRATING FIRE RATED WALLS SHALL BE EQUIPPED WITH FIRE DAMPERS. NO OPENINGS WITHIN 5' ON EITHER SIDE OF THE FIRE RATED WALL. DUCTWORK ON EACH SIDE OF A FIRE RATED WALL (5') SHALL BE A MINIMUM OF 26 GA. SHEET METAL.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR INSIDE DIMENSIONS

### DUCT INSULATION NOTES

- ALL INSULATION SHALL COMPLY WITH THE "FLORIDA ENERGY CODE" LATEST EDITION.
- FLEXIBLE DUCTS SHALL BE OF THE LOW PRESSURE FACTORY FABRICATED TYPE CONSISTING OF A ZINC COATED SPRING STEEL HELIX NON-PERFORATED INNER LINING AND 1-1/2" THICK FIBERGLASS INSULATION WITH METALIZED MYLAR VAPOR BARRIER.
- ALL INSULATION SHALL HAVE A MAXIMUM FLAME SPREAD/ SMOKE DEVELOPED RATING OF 25/50
- DUCT SUPPORT HANGERS SHALL PASS AROUND THE OUTSIDE OF THE INSULATION USING SHIELDS OR SADDLES SO AS NOT TO COMPRESS THE INSULATION

## MECHANICAL DRAWING INDEX

SHEET	DESCRIPTION	ISSUED
M-1	HVAC GENERAL NOTES, SYMBOLS & SCHEDULES	YES
M-2	MECHANICAL HVAC PLAN	YES
M-3	MECHANICAL HVAC DETAILS	YES

**SHEET TITLE**

**HVAC GENERAL NOTES, SYMBOLS & SCHEDULES**

ISSUE DATE: **12-16-2013**

DRAWN: **EJS**

APPROVED: **EJS**

**DRAWING NUMBER**

**M-1**

SHEET 1 OF 3  
13061-02

NO.	DATE	REVISIONS

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PROJECT NAME: **FDOT DAVIE MATERIALS LAB RESTROOM RENOVATION**

CLIENT: **EDOT DISTRICT 4  
3400 W. COMMERCIAL BLVD.  
FT. LAUDERDALE, FLORIDA**

PROJECT LOCATION: **14200 W. S.R. 84  
DAVIE, FLORIDA**

**ENGINEER SEAL**

Eric J. Svoboda, PE  
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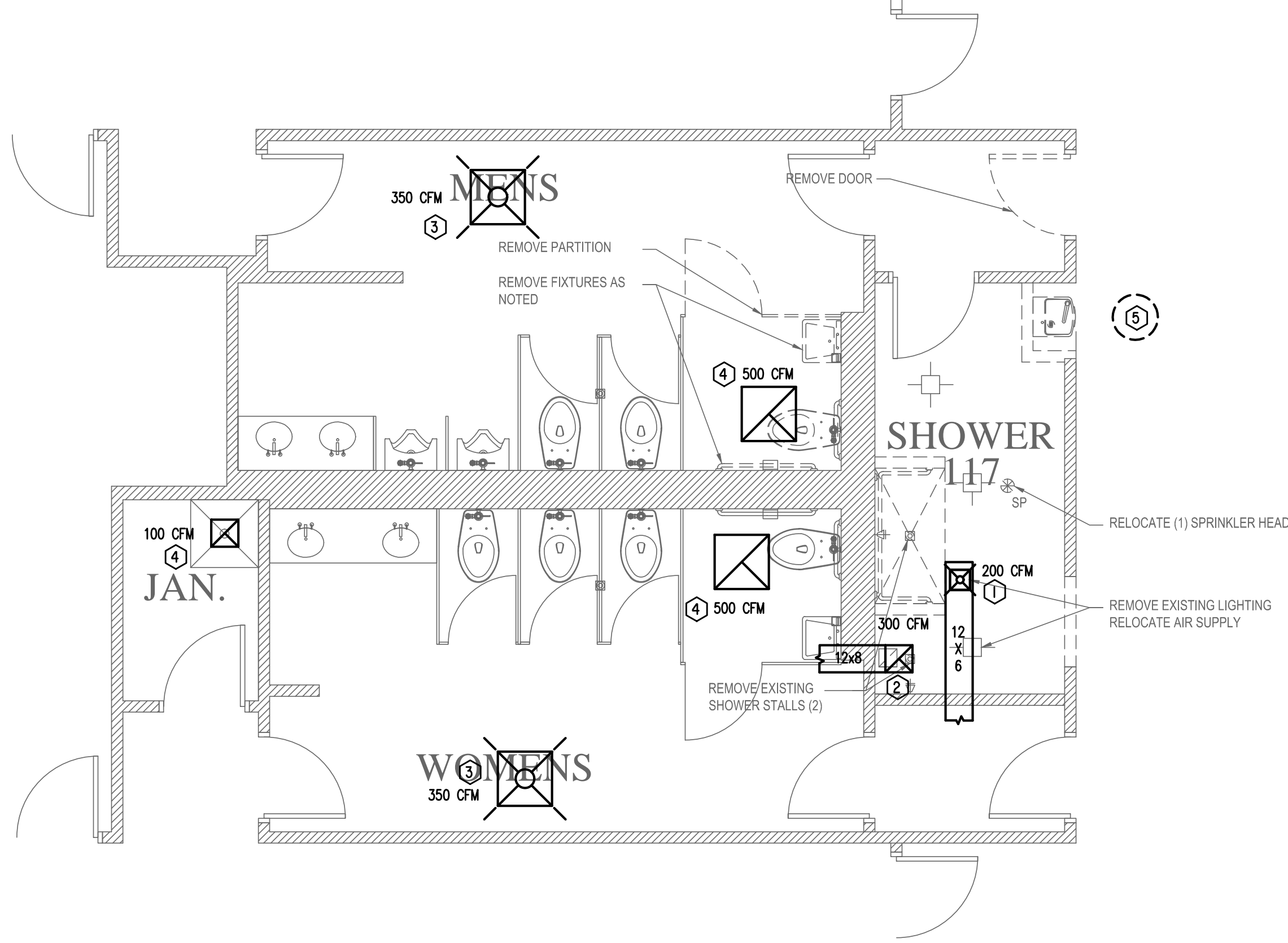
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NOTE: SOME NOTE & SYMBOLS SHOWN ON THIS LEGEND MAY NOT PERTAIN TO THIS PROJECT.

- GENERAL NOTES:**
1. EXISTING HVAC CONNECTIONS SHOWN HAVE BEEN OBTAINED FROM PREVIOUS CONTRACT DOCUMENTS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK.
  2. REMOVE EXISTING AIR DEVICES AS INDICATED. CAP & SEAL DUCT OPENINGS AS NECESSARY.
  3. ALL OTHER AIR DEVICES / EQUIPMENT TO REMAIN.
  4. COORDINATE NEW AIR DEVICE PLACEMENT WITH LIGHTING LAYOUT.

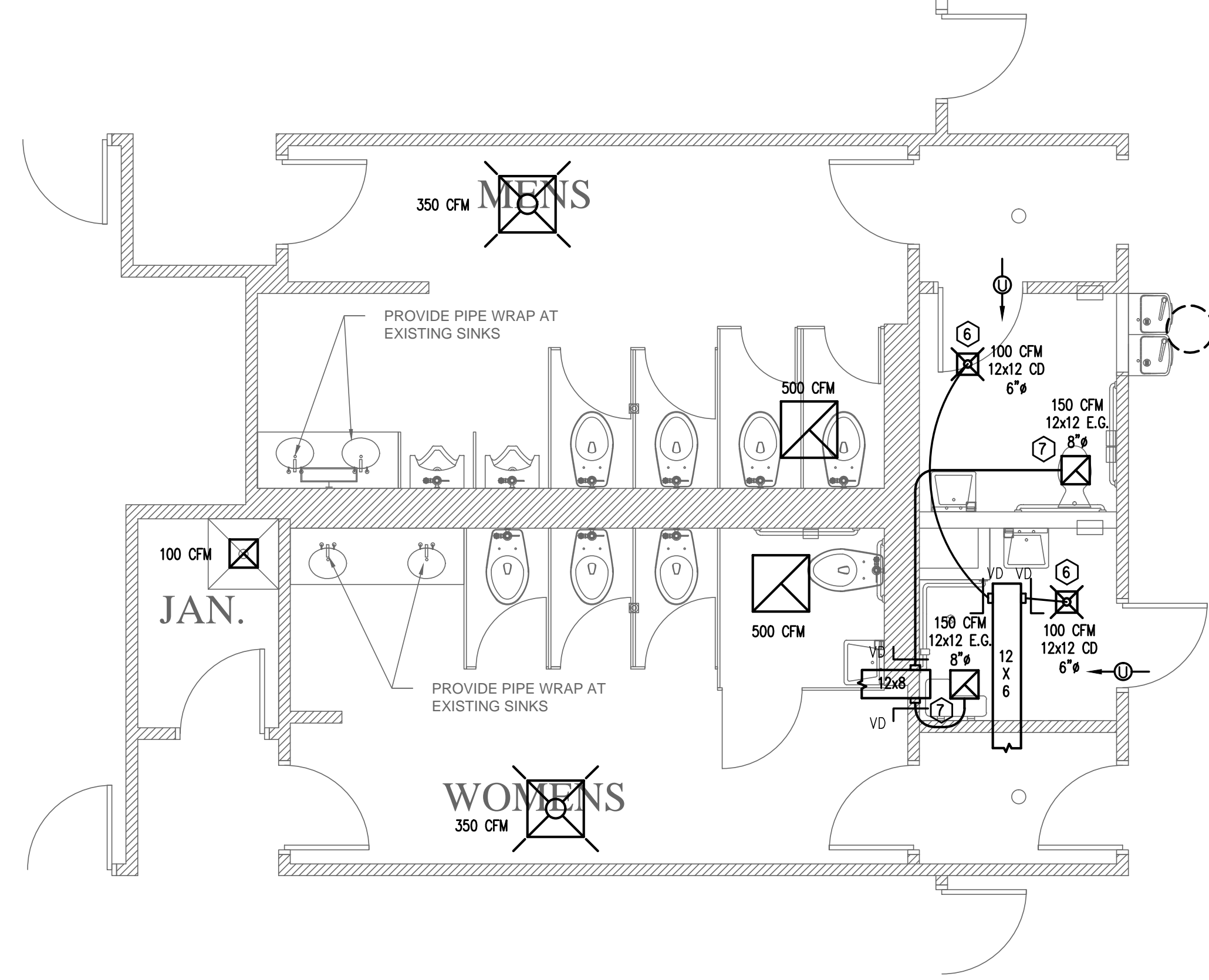
**NOTE:**  
EXISTING OCCUPANCY CLASSIFICATION SHALL REMAIN UNCHANGED. BUILDING ENVELOPE SHALL REMAIN UNCHANGED AND EXISTING AIR CONDITIONING SYSTEM & LIGHTING SHALL REMAIN UNCHANGED. NEW ENERGY REPORT / CALCULATION SHALL NOT BE REQUIRED.

- KEY NOTES:**
- 1 REMOVE EXISTING SUPPLY DIFFUSER - MAIN SUPPLY DUCT TO REMAIN FOR RE-USE.
  - 2 REMOVE EXISTING EXHAUST GRILL - MAIN EXHAUST DUCT TO REMAIN FOR RE-USE.
  - 3 EXISTING SUPPLY DIFFUSER TO REMAIN WITH EXISTING INDICATED AIRFLOW.
  - 4 EXISTING EXHAUST GRILL TO REMAIN WITH EXISTING INDICATED AIRFLOW.
  - 5 EXISTING ROOF EXHAUST FAN EF-1 TO REMAIN - FAN IS DUCTED ONLY TO EXHAUST GRILLS SHOWN.
  - 6 INSTALL NEW SUPPLY DIFFUSER - CONNECT TO EXISTING SUPPLY DUCT WITH FLEX DUCT AS INDICATED & BALANCE TO LISTED AIRFLOW.
  - 7 INSTALL NEW EXHAUST GRILL - CONNECT TO EXISTING EXHAUST DUCT WITH SHEET METAL DUCT AS INDICATED & BALANCE TO LISTED AIRFLOW.



 HVAC DEMO PLAN

SCALE 1/4" = 1'-0"



 HVAC PLAN

SCALE 1/4" = 1'-0"

NO.	DATE	REVISIONS

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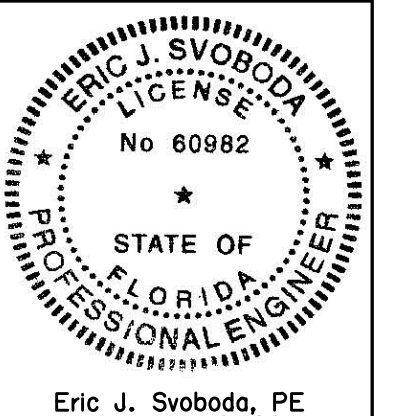
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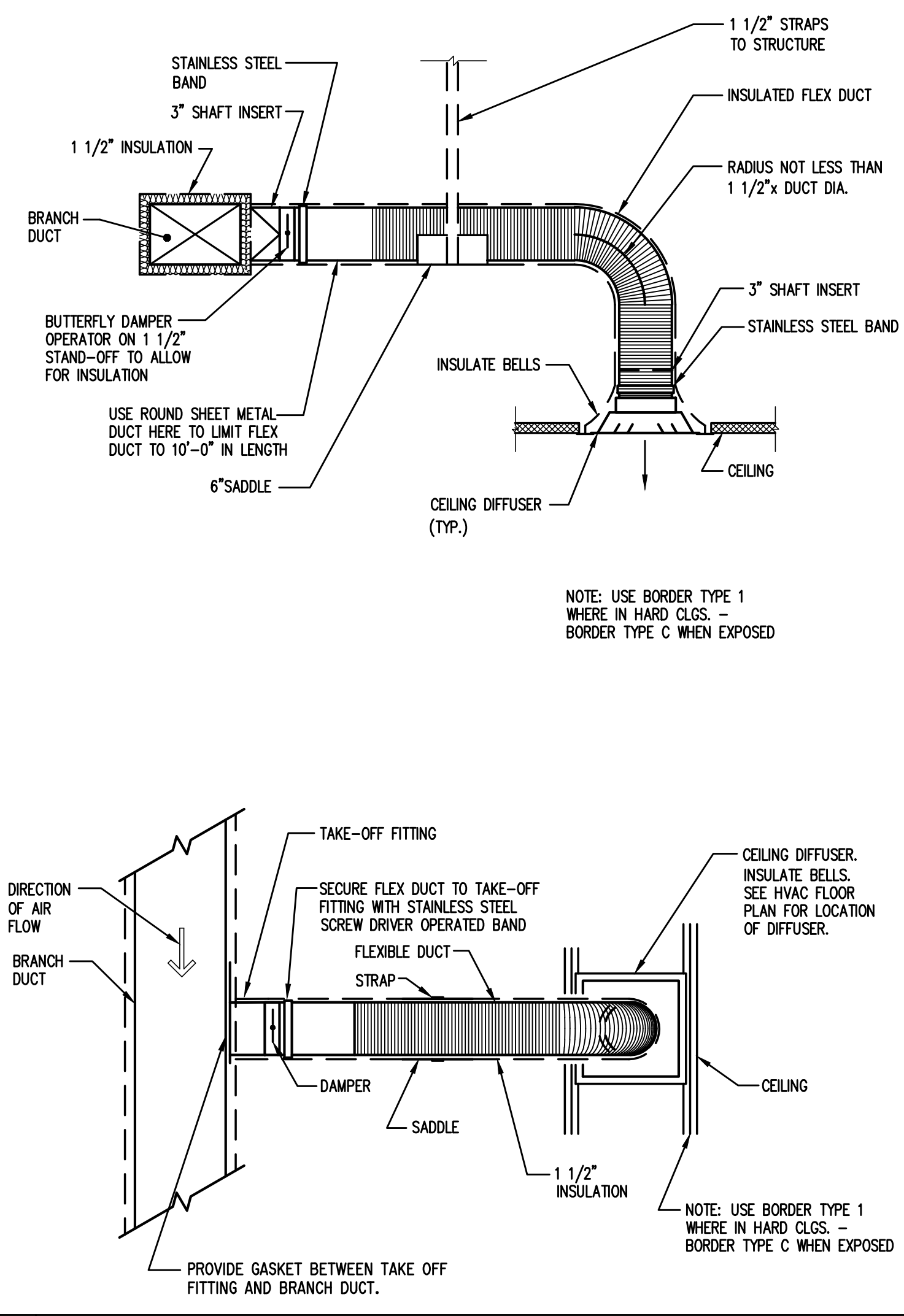
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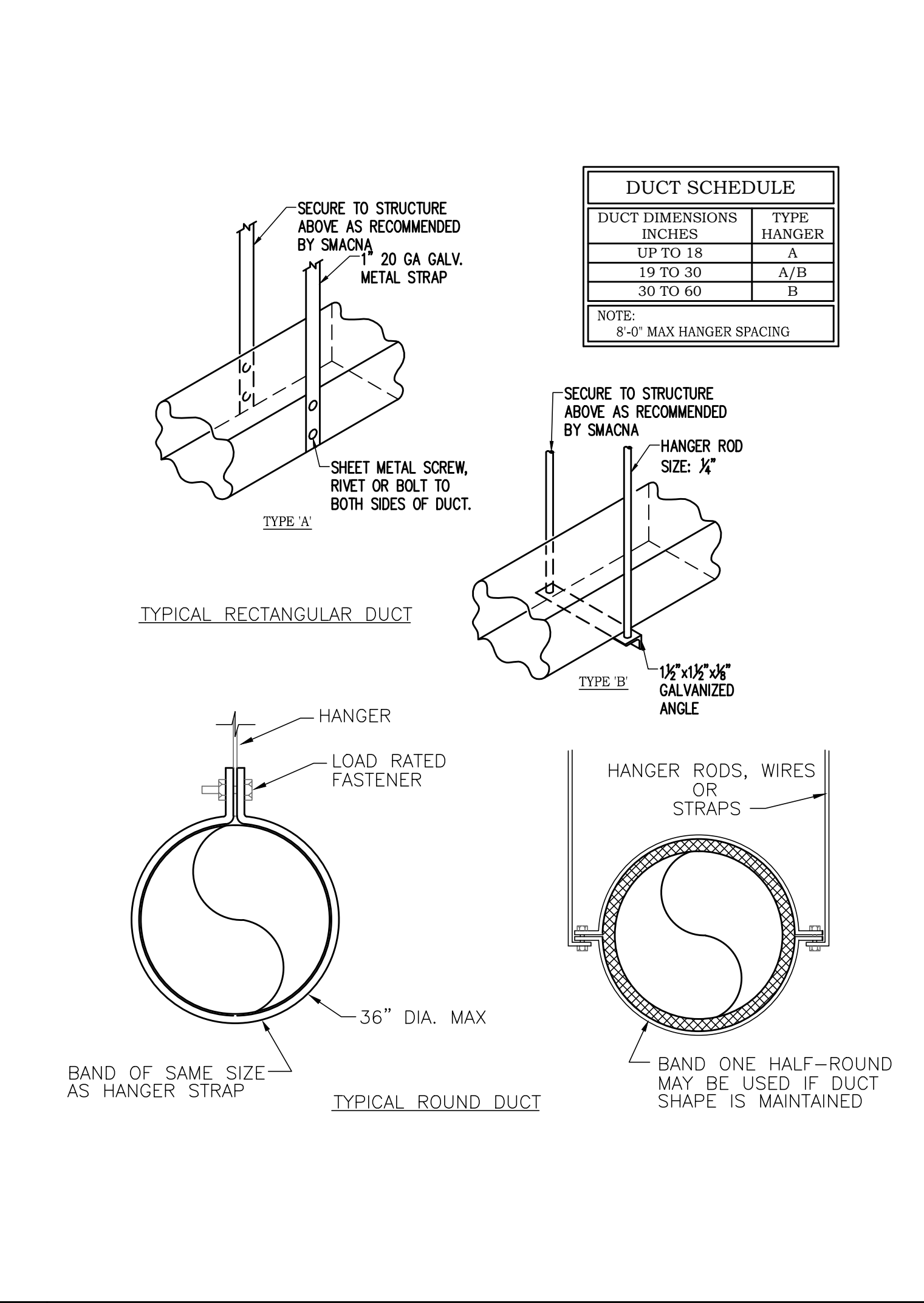
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<b>SHEET TITLE</b>
<b>HVAC PLAN</b>
ISSUE DATE: 12-16-2013
DRAWN: EJS
APPROVED: EJS
<b>DRAWING NUMBER</b>
M-2
SHEET 2 OF 3
13061-02



**A FLEX DUCT CONNECTION DETAILS**



**B DUCT SUPPORT DETAILS**

NO.	DATE	REVISIONS

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**SHEET TITLE**  
 MECHANICAL  
 DETAILS  
**ISSUE DATE:** 12-16-2013  
**DRAWN:** EJS  
**APPROVED:** EJS  
**DRAWING NUMBER**  
**M-3**  
 SHEET 3 OF 3  
**13061-02**

PLUMBING FIXTURE SCHEDULE							
CODE	DESCRIPTION	HW	CW	WASTE	VENT	TRAP	REMARKS
WC-1	WATER CLOSET, FLOOR MOUNTED, AMERICAN STD "MADERA" 1.6 GPF MODEL, VITREOUS CHINA, ELONGATED RIM, 1-1/2" TOP SPUD, OPEN FRONT SEAT LESS COVER, SLOAN 111 FLUSH VALVE.	—	1"	4"	2"	INT	EQUAL BY KOHLER OR TOTO
WC-2	WATER CLOSET, FLOOR MOUNTED, SAME AS WC-1, EXCEPT ADA RIM HEIGHT.	—	1"	4"	2"	INT	EQUAL BY KOHLER OR TOTO
L-1	LAVATORY, WALL HUNG, AMERICAN STD "LUCERNE" MODEL, VITREOUS CHINA, 4" HIGH BACK, 1 1/4" P TRAP, GRID DRAIN, CHICAGO FAUCET MODEL 802-V VANDAL RESISTANT, ADA COMPLIANT.	1/2"	1/2"	2"	1 1/4"	1 1/4"	EQUAL BY KOHLER OR TOTO. PROVIDE BELOW DECK ASSE 1070 APPROVED MECHANICAL MIXING VALVE, SET AT 110 DEG.
SH-1	SHOWER, SYMMONS TEMPTRON S-96-300X-B30-LV HAND SPRAY SHOWER UNIT, 5' METAL HOSE, 30" SLIDE BAR & VALVE, ADJ. TEMP. LIMIT STOP, PRESSURE BALANCING, 2" TRAP WITH POLISHED BRASS GRID DRAIN.	1/2"	1/2"	2"	2 1/2"	2"	
EW-1	ELECTRIC WATER COOLER, HALSEY TAYLOR HAC8FBL-VR-Q, SPLIT LEVEL, 8GPH, VANDAL RESISTANT, ADA COMPLIANT.	—	1/2"	2"	1 1/4"	1 1/4"	EQUAL BY OASIS OR ELKAY

**PLUMBING SYMBOLS**

SYMBOLS	DESCRIPTION
— · — · — · —	COLD WATER (CW)
— · — · —	HOT WATER (HW)
— · — · —	SEWER (S)
— · — · —	VENT LINE (V)
— HWR —	RECIR. HOT WATER
— CD —	CONDENSATE DRAIN
— X —	EXISTING PIPE
⊕	CONNECT TO EXISTING
—SD—	STORM DRAIN (SD)
P	PUMP
VTR	VENT THRU ROOF
WC	WATER CLOSET
UR	URINAL
HL	HAND LAVATORY
L-(No)	LAVATORY
HB	HOSE BIBB
SS	SERVICE SINK
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
GWH	GAS WATER HEATER
SH	SHOWER
HS	HAND SINK
FD	FLOOR DRAIN
RD	ROOF DRAIN
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
	BACK FLOW PREVENTER
	VALVE IN YARD BOX (TYPE AS NOTED)
	PRESURE RELEIF VALVE (RV)
	WATER METER
	ELBOW - UP
	RISE OR DROP
	CONCENTRIC REDUCER
	DIRECTION OF FLOW
	CLEAN OUT (RISER)
	CLEAN OUT
	WALL CLEAN OUT
	PLUGGED PIPE
	SHOWER HEAD
	PUMP W/FLOW DIRECTION
	FLOW SWITCH
	PRESSURE SWITCH
	WATER HAMMER ARRESTER WITH P.D.I. SIZE

**GENERAL NOTES:**

1. PLUMBING CONTRACTOR IS TO FURNISH AND INSTALL ALL PLUMBING FIXTURES COMPLETE AS LISTED IN "PLUMBING FIXTURE SCHEDULE".
2. PLUMBING CONTRACTOR MAY USE SCHEDULE 40 OR 80 TYPE I, GRADE I, POLYVINYL CHLORIDE PIPE FOR ALL SOIL, WASTE AND VENT PIPING WHERE PERMITTED BY LOCAL CODES. WHERE PVC PIPING IS NOT PERMITTED BY LOCAL CODES, USE STANDARD WEIGHT CAST IRON PIPING. ALL PIPING ABOVE GRADE MAY HAVE HUBLESS FITTINGS. PLASTIC PIPING SHALL NOT BE USED IN A RETURN AIR PLENUM. COORDINATE THIS REQUIREMENT WITH H.V.A.C. CONTRACTOR.
3. PROVIDE SHUT-OFF GATE VALVES ON ALL EQUIPMENT & HOSE BIBBS, & STOP COCKS IN HOT AND COLD WATER PIPING TO ALL PLUMBING FIXTURES.
4. ALL WATER PIPING BELOW GRADE SHALL BE TYPE "L" SOFT TEMPERED COPPER AND ALL WATER PIPING ABOVE GRADE SHALL BE TYPE "L" HARD TEMPERED COPPER.
5. INSTALL 1" FOAM RUBBER INSULATION ON ALL HOT WATER PIPING ABOVE GRADE. ALL JOINTS IN INSULATION ARE TO BE TAPED.
6. ELEVATION OF ALL FLOOR DRAINS SHALL BE HELD 1/2" BELOW FINISH FLOOR TILE.
7. ALL MATERIAL AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL LOCAL AND STATE PLUMBING AND MECHANICAL CODES, INCLUDING THE STANDARD BUILDING, PLUMBING AND MECHANICAL CODES, NEPA, ASME, ASHRAE, ASA AND AGA.
8. THE SANITARY SYSTEM INCLUDES CONNECTION TO FIXTURES, RUNNING OF SOIL AND WASTE LINE AND SOIL AND VENT SANITARY SEWER SYSTEM AND/OR SEPTIC TANKS AND DRAIN FIELDS AND ALL ITEMS AS SHOWN ON DRAWINGS. VENT STACKS SHALL EXTEND THROUGH ROOF WITH LEAD FLASHING.
9. THE DOMESTIC WATER SYSTEM INCLUDES CONNECTIONS TO THE DESIGNED SYSTEM, CONTROL VALVES AND PIPING TO PLUMBING FIXTURES, INCLUDING CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS.
10. PIPE INSTALLATIONS AND MATERIALS SHALL BE AS REQUIRED TO MAINTAIN FIRE RATINGS WHERE REQUIRED BETWEEN FLOORS AND/OR BETWEEN UNITS.
11. ARRESTERS SHALL BE INSTALLED WHERE NECESSARY TO PREVENT WATER HAMMER.
12. COPPER PIPING WHERE USED SHALL NOT CONTACT DISSIMILAR METALS OR MASONRY. PROVIDE ISOLATING BUSHINGS WHEN CONNECTING TO ANY DISSIMILAR METALS.
13. PLUMBING CONTRACTOR SHALL COORDINATE WITH ARCHITECT FOR DETAILED DIMENSIONS AND LOCATIONS OF ALL FIXTURES AND EQUIPMENT AND FOR ANY CHANGES IN LAYOUT.
14. PLUMBING CONTRACTOR SHALL MAKE ALL TEST AND ADJUSTMENTS AS REQUIRED, UPON COMPLETION OF WORK AND PRIOR TO FINAL ACCEPTANCE BY OWNER.
15. AFTER COMPLETION OF THIS WORK, THE CONTRACTOR SHALL OBTAIN A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM ALL AUTHORITY'S HAVING JURISDICTION.
16. ALL WORKMANSHIP, MATERIALS AND APPARATUS UNDER THIS CONTRACT SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY THE OWNER.

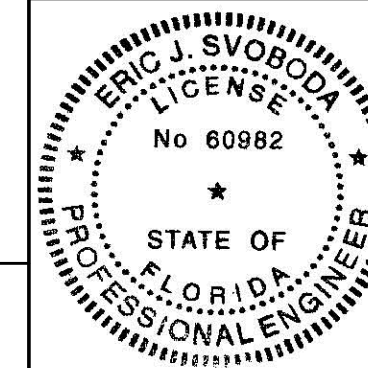

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**PROJECT NAME:** FDOT DAVIE MATERIALS LAB RESTROOM RENOVATION  
**CLIENT:** FDOT DISTRICT 4  
3400 W. COMMERCIAL BLVD.  
FT. LAUDERDALE, FLORIDA

**PROJECT LOCATION:** 14200 W S.R. 84  
DAVIE, FLORIDA

**ENGINEER SEAL**



**PLUMBING DRAWING INDEX**

SHEET	DESCRIPTION	ISSUED
P-1	PLUMBING LEGEND, NOTES, SCHEDULES & DETAILS	YES
P-2	PLUMBING PLAN	YES
P-3	PLUMBING WASTE-VENT & WATER RISER	YES

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**PLUMBING LEGEND, NOTES, SCHEDULES & DETAILS**

ISSUE DATE: **12-16-2013**

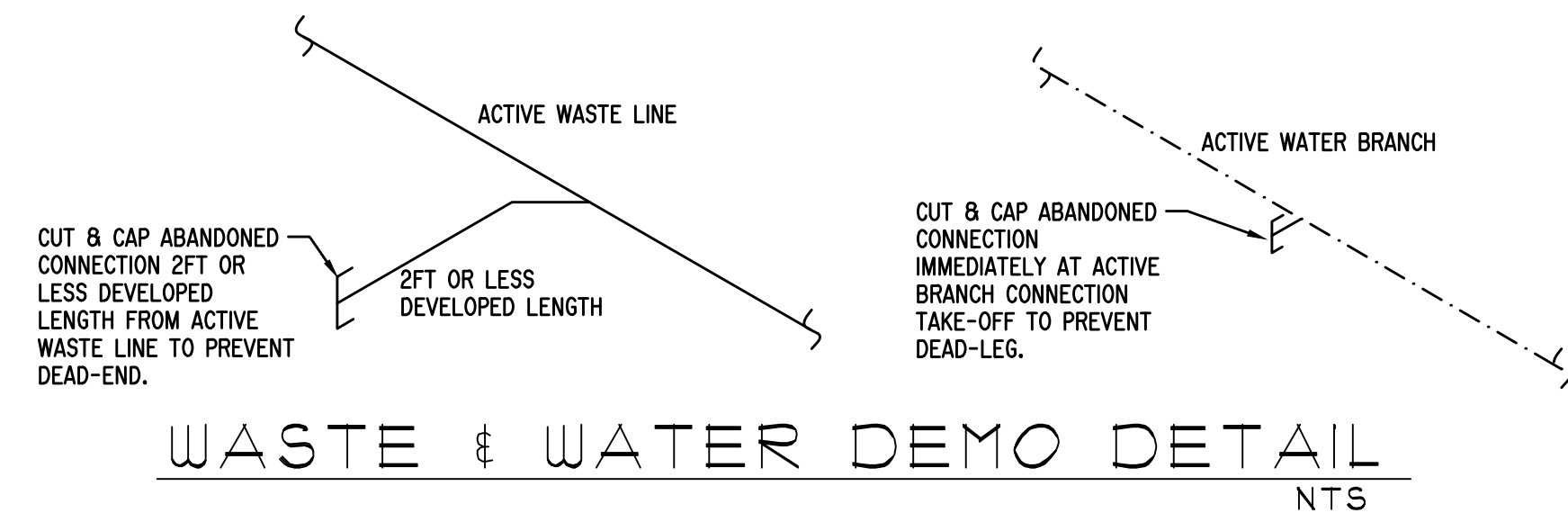
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**P-1**

**SHEET 1 OF 3**  
**13061-02**

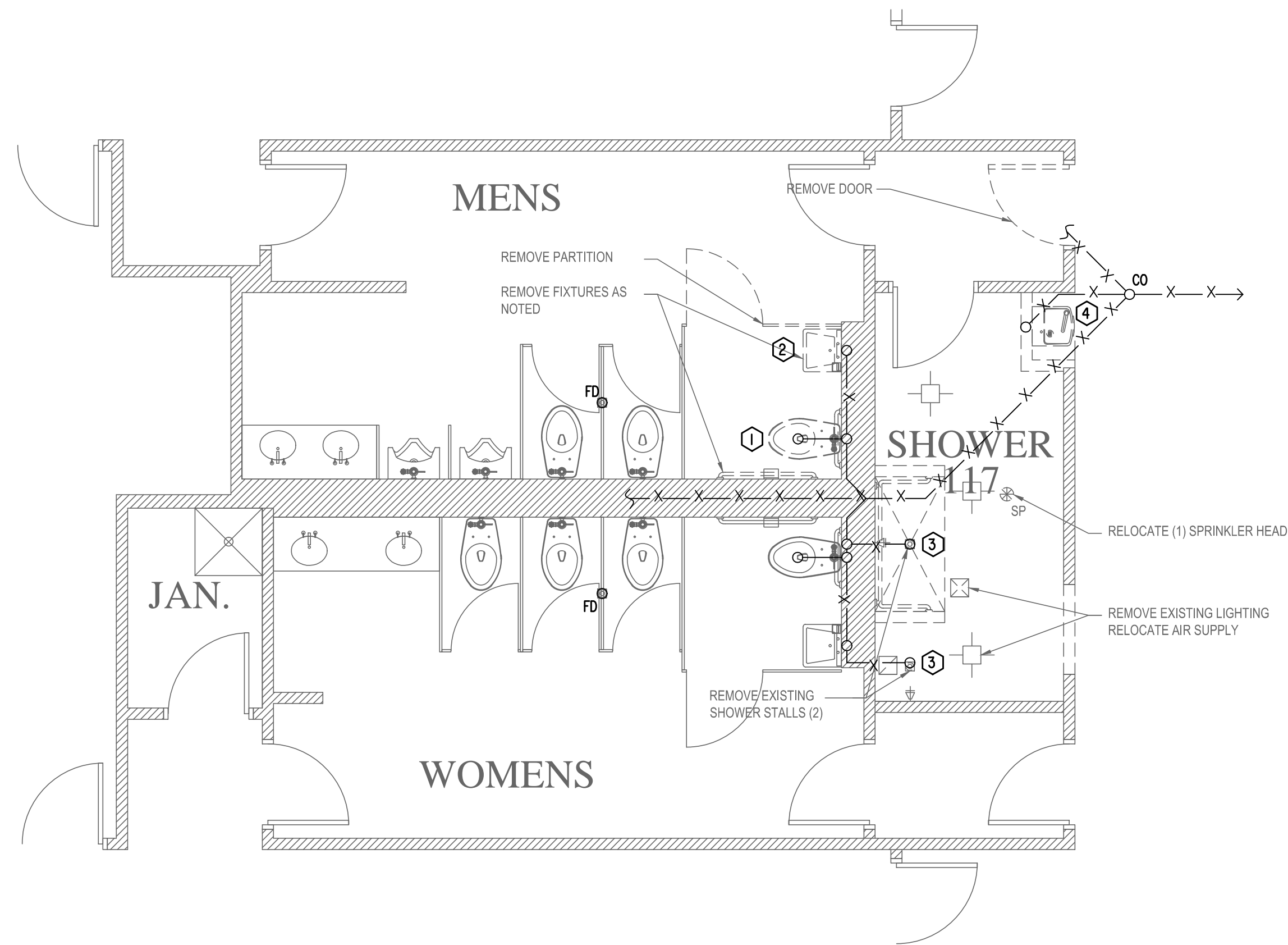
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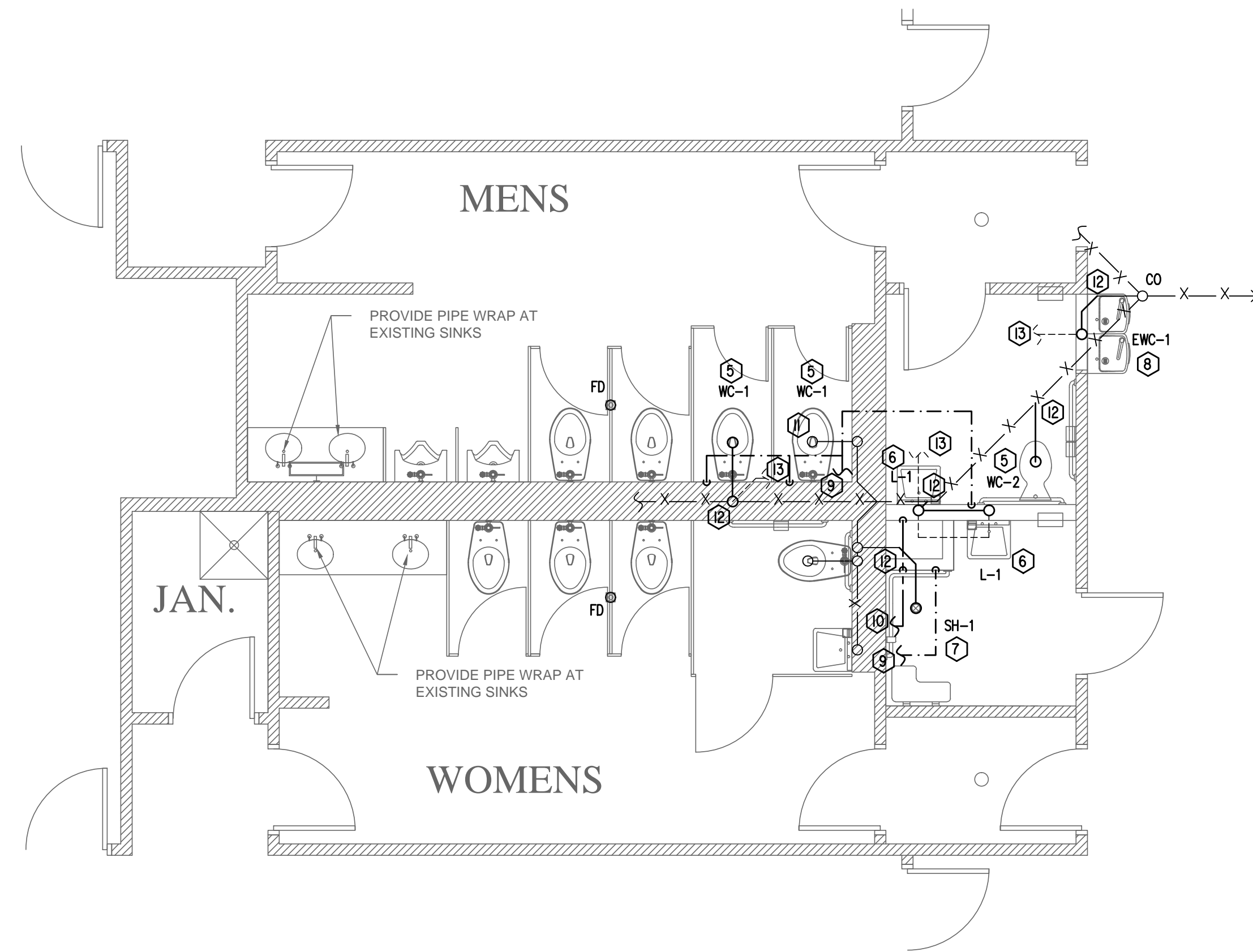


- GENERAL NOTES:**
- EXISTING PLUMBING CONNECTIONS SHOWN HAVE BEEN OBTAINED FROM PREVIOUS CONTRACT DOCUMENTS. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK
  - REMOVE EXISTING FIXTURES AS INDICATED. CUT & CAP ANY UNUSED WASTE & WATER CONNECTIONS AS NECESSARY.
  - ALL OTHER FIXTURES TO REMAIN.
  - ROUTE ALL NEW WATER LINES ABOVE CEILING AS INDICATED.
  - SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ANY ADJUSTED / NEW SPRINKLER LOCATIONS. RELOCATE EXISTING SPRINKLER HEADS AS NECESSARY & TIE ANY NEW HEADS INTO EXISTING SUPPLY PIPING. ANY NEW SPRINKLER HEADS SHALL MATCH EXISTING STYLE.

- KEY NOTES:**
- REMOVE EXISTING WATER CLOSET.
  - REMOVE EXISTING LAVATORY.
  - REMOVE EXISTING SHOWER.
  - REMOVE EXISTING DRINKING FOUNTAIN.
  - INSTALL NEW WATER CLOSET. FIELD LOCATE & TIE INTO EXISTING WASTE & WATER CONNECTIONS.
  - INSTALL NEW LAVATORY. FIELD LOCATE & TIE INTO EXISTING WASTE & WATER CONNECTIONS.
  - INSTALL NEW SHOWER. FIELD LOCATE & TIE INTO EXISTING WASTE & WATER CONNECTIONS.
  - INSTALL NEW DRINKING FOUNTAIN. FIELD LOCATE & TIE INTO EXISTING WASTE & WATER CONNECTIONS - EXTEND PREVIOUS WATER CONNECTION AS NECESSARY.
  - FIELD LOCATE & TIE INTO EXISTING WATER CONNECTION.
  - FIELD LOCATE & TIE INTO EXISTING HOT WATER CONNECTION.
  - CONNECT NEW WATER CLOSET TO PREVIOUS WASTE CONNECTION - ADJUST FLOOR LOCATION AS NECESSARY.
  - FIELD LOCATE & TIE INTO EXISTING WASTE CONNECTION.
  - FIELD LOCATE & TIE INTO EXISTING VENT CONNECTION.



➔ **PLUMBING DEMO PLAN** SCALE 1/4" = 1'-0"



➔ **PLUMBING PLAN** SCALE 1/4" = 1'-0"

NO.	DATE	REVISIONS

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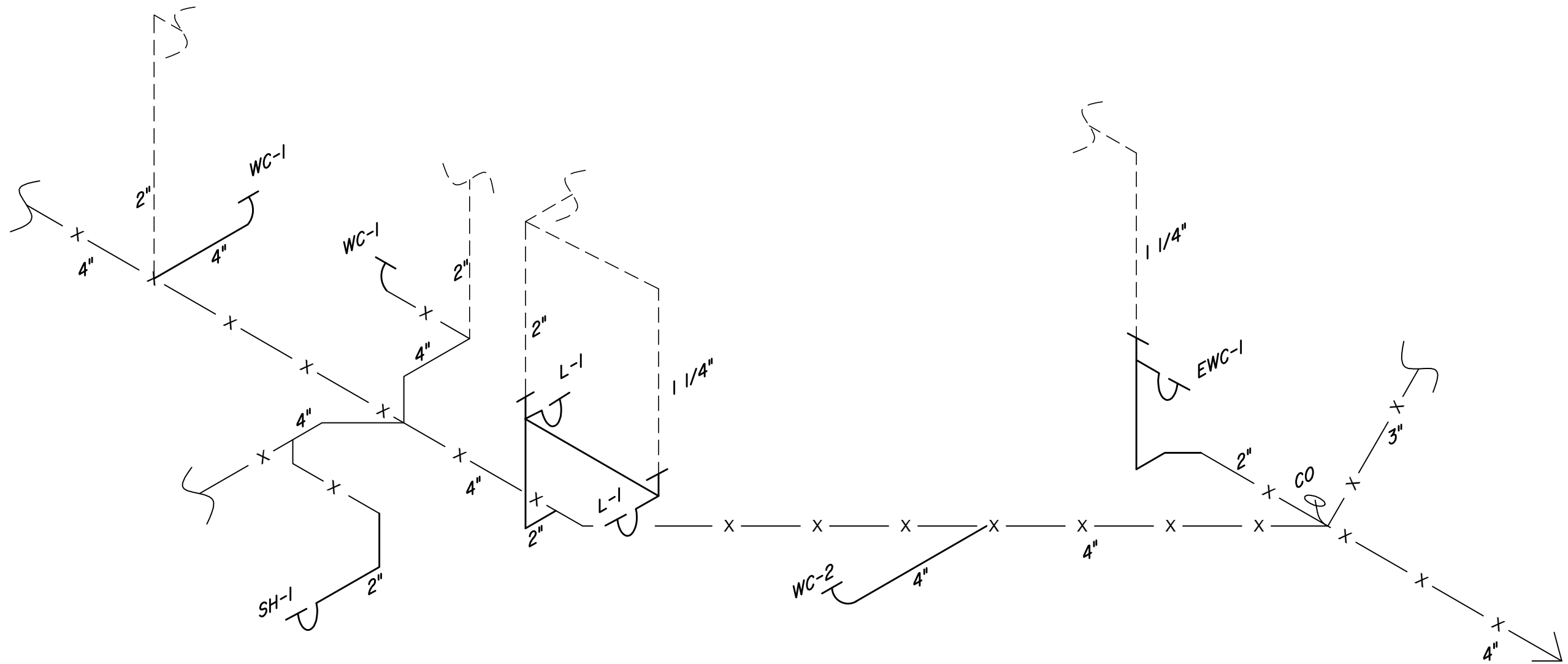
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Eric J. Svoboda, PE  
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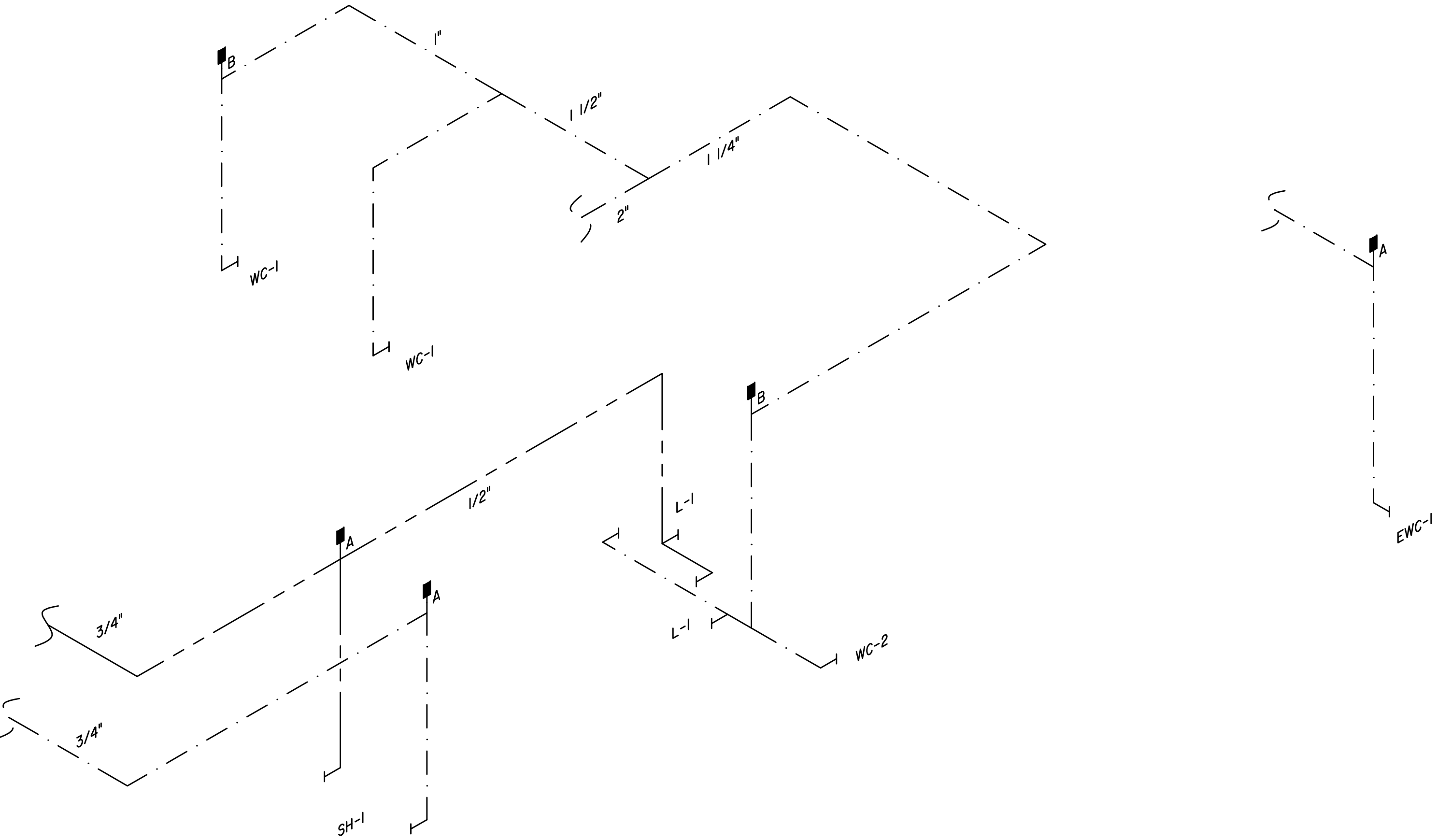
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<b>SHEET TITLE</b>
<b>PLUMBING FLOOR PLAN</b>
<b>ISSUE DATE:</b> 12-16-2013
<b>DRAWN:</b> EJS
<b>APPROVED:</b> EJS
<b>DRAWING NUMBER</b>
<b>P-2</b>
<b>SHEET 2 OF 3</b>
<b>13061-02</b>



**WASTE - VENT RISER**

SCALE: N.T.S.



**WATER RISER**

SCALE: N.T.S.

	NO.	DATE	REVISIONS	CHK	APP

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SHEET TITLE

**PLUMBING  
 WASTE-VENT  
 & WATER RISER**

ISSUE DATE: 12-16-2013

DRAWN: EJS

APPROVED: EJS

DRAWING NUMBER

**P-3**

SHEET 3 OF 3

13061-02