

DEMOLITION PLAN KEYED NOTES

- 1) G.C. TO REMOVE 10 SEATS (EACH SIDE), SALVAGE, AND DELIVER TO OWNER
- REMOVE FLOOR FINISHES AS REQUIRED WITHIN LIMITS SHOWN DOWN TO CONCRETE BELOW AND PREPARE FOR NEW CONCRETE PLACEMENT OVER (E) CONCRETE TIERS TO REMAIN. CARPET CUT LINE TO OCCUR NO GREATER THAN 2" OUTSIDE OF NEW CONCRETE PLACEMENT LIMITS TO ALLOW FOR BATTEN TRIM COVERING OF DEMOLISHED FINISHES TO NEW CARPET AT WALLS ABOVE. SEE DETAIL A/S1.1 FOR MORE INFORMATION.
- DEMOLISH WALLS AS REQUIRED FOR NEW DOOR OPENINGS.
 G.C. TO VERIFY FRAMING ABOVE (BEAM OR BEARING WALL)
 AND PROVIDE SHORING AS NECESSARY TO INSTALL NEW
 FRAMING IF REQUIRED. CUT FINISHES TIGHT TO NEW DOOR
 OPENING SO THAT NEW METAL CASING WILL COVER
 DEMOLITION LINE AT NEW DOORS WITHOUT SUBSTANTIAL
 FINISH REPAIR
- PROVIDE GYPCRETE LAYER OVER (E) SLAB TO PROVIDE LEVEL TRANSITION FROM LOBBY TO (N) SLAB AT NEW RESTROOM (SEE STRUCTURAL DETAILS FOR MORE INFORMATION)
- APPROXIMATE TRENCH LINE FOR NEW UTILITIES (BORE UNDER SLAB AT TILE FINISH IN LOBBY) SEE PLUMBING PLANS FOR MORE INFORMATION. ALL TRENCH PATCH WORK TO MATCH EXISTING FINISHES.
- REMOVE BENCH IN LOBBY, SALVAGE, AND DELIVER TO OWNER.
- REMOVE FINISHES AT INTERIOR FACE OF (E) WALL IN RESTROOM UP TO ROPE TILE TRANSITION LEVEL (PER INTERIOR ELEVATIONS) AND PREPARE TO RECEIVE TILE FINISH. (SEE RESTROOM FINISH DETAIL ON SHEET A1.3) DEMOLISH OR CUT BACK THICKENED WALL SECTION BELOW (E) LEDGE ON (E) WALL AS REQ'D AND REBUILD WITH MINIMUM 2x4 FRAMING IN ORDER TO PROVIDE FLUSH WALL FACE TO CEILING.

SPECIAL NOTE:
DEMOLITION PLAN IS SIMILAR AT
ALTERNATE - UNISEX RESTROOM #2.

SPECIAL NOTE:

TRENCH PREPARATION FOR NEW WASTE AND SUPPLY LINES FROM BATHROOM TO (E) LATERAL AT SIDEWALF TO BE PROVIDED BY OWNER. PLUMBER TO INSTALL NEW LINES IN TRENCH PROVIDED AND THEN OWNER TO PROVIDE ALL TRENCH BACKFILL, COMPACTION, AND FINISHES PER CONTRACT DRAWINGS

CODE REVIEW NARRATIVE:

THE SCOPE OF THIS PROJECT INCLUDES VOLUNTARY UPGRADES IN ORDER TO REMOVE ARCHITECTURAL BARRIERS AND INCREASE ADA ACCESSIBILITY. THE OWNER IS VOLUNTARILY PROVIDING ADA ACCESSIBLE RESTROOMS ON THE GROUND FLOOR WHERE NONE EXISTED BEFORE. BECAUSE ALL UPGRADES ARE VOLUNTARY AND CONSIST OF ADA IMPROVEMENTS, NO FURTHER CODE REVIEW IS REQUIRED BEYOND CODE COMPLIANCE OF ACCESSIBILITY FEATURES IN THE RESTROOMS THEMSELVES.

KEY PLAN NOTES

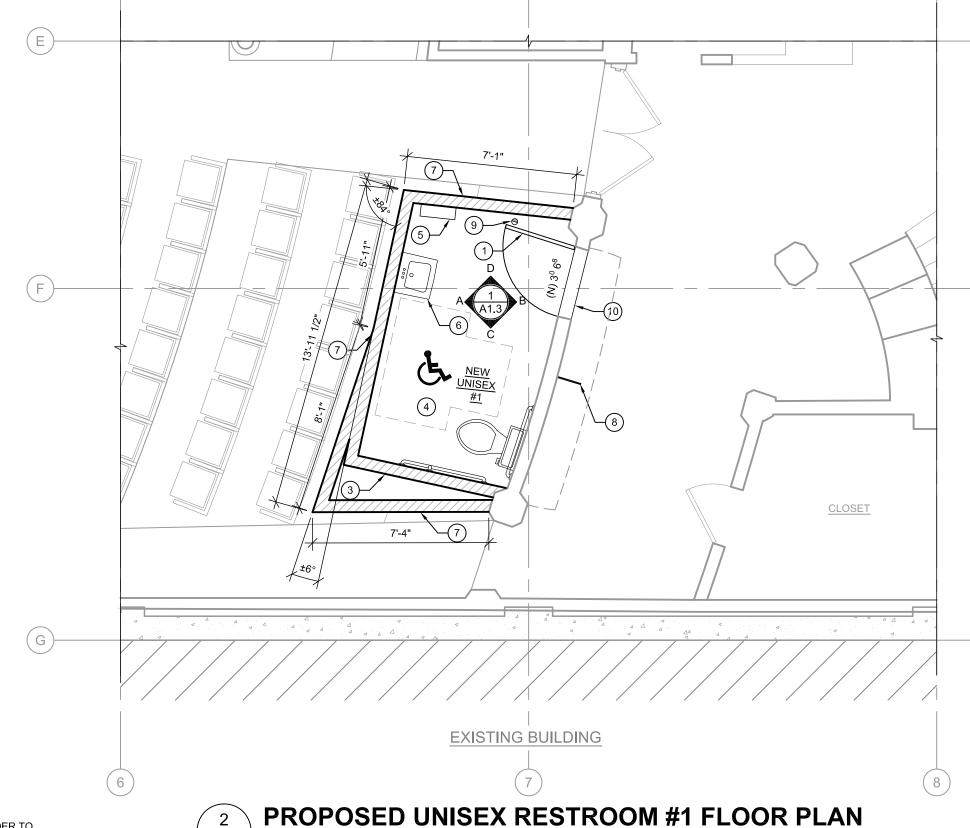
- AT THIS LOCATION G.C. TO REMOVE CABINET BACK TO CORNER AS ILLUSTRATED ON PLAN AND IN ELECTRICAL PLANS AND ELEVATIONS.
- PROVIDE NEW DOORS AND CABINET FACE AT LIMITS OF CABINETRY DEMOLITION. PROVIDE ALL NECESSARY ALTERATIONS TO COUNTERTOP, BACKSPLASH, AND CABINETRY IN ORDER TO MATCH (E) FINISHES AND FUNCTIONALITY. PROVIDE FRP PANEL OR SIMILAR FINISH TO MATCH EXISTING AT LIMITS OF DEMOLITION AT WALL. VERIFY PANEL CLEARANCES WITH ELECTRICAL ENGINEER/ELECTRICIAN PRIOR TO CONSTRUCTION.
- SEE MECHANICAL PLANS FOR LOCATION OF 8" EXHAUST VENT IN CORNER OF PROJECTION ROOM (ABOVE). G.C. TO PROVIDE NEW FRAMED BOX-OUT AROUND VENT AND MATCH ADJACENT FINISHES. (1/2" GYP WITH TAPE, TEXTURE, AND PAINT AT A MINIMUM)
- COORDINATE STAGING AREA AT REAR OF BUILDING WITH OWNER PRIOR TO CONSTRUCTION. ALL ACCESS MUST BE MAINTAINED DURING CONSTRUCTION FOR FIRE AND LIFE-SAFETY REASONS AND FOR DELIVERY ACCESS TO REAR OF ADJACENT BUILDINGS.

PROJECT NOTES:

GENERAL INFORMATION:

- . VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. NOTIFY ENGINEER WHERE DISCREPANCIES OCCUR.
- G.C. SHALL COORDINATE ALL NON-BID ITEMS (INTERIOR FINISH COLORS ETC.) W/ OWNER PRIOR TO CONSTRUCTION IF NOT SPECIFIED IN THESE PLANS.
- 3. G.C. SHALL PROVIDE ALL APPROPRIATE BACKING, FASTENERS, AND CONCRETE FASTENERS AS REQUIRED FOR BATHROOM ACCESSORIES AND OTHER MISCELLANEOUS ITEMS.
- 4. G.C. TO COORDINATE INSTALLATION OF ALL UTILITIES W/ RESPECTIVE SUPPLIERS/SUBCONTRACTORS PRIOR TO CONSTRUCTION, TYPICAL.
- 5. VERIFY (E) UTILITY LAYOUT, AND SAWCUT FOR (N) UTILITIES AS REQUIRED.
- 6. G.C. SHALL PROVIDE FULLY FURNISHED AND FINISHED RESTROOM FACILITY. G.C. TO COORDINATE WITH OWNER FOR COLOR SELECTION WHERE REQUIRED.
- 7. G.C. TO IDENTIFY AND REMEDIATE HAZARDOUS MATERIALS.
- 8. SEE ADDITIONAL NOTES ON PLAN SET FOR FURTHER INFORMATION.
- 9. G.C. TO PROVIDE MATERIAL SUBMITTALS FOR ALL FINISHES PRIOR TO START OF CONSTRUCTION. FOR ALL FINISHES THAT REQUIRE FIELD PAINTING, STAINING, OR OTHER MODIFICATION OF INSTALLED FEATURES, G.C. TO SUBMIT MOCK-UP OF FINAL PRODUCT PRIOR TO FINAL APPROVAL AND INSTALLATION.
- 10. SAMPLES SHALL BE SUBMITTED IN A TIMELY MANNER IN ORDER TO ALLOW OWNER ADEQUATE TIME FOR REVIEW AND APPROVAL. G.C. TO ALLOW A MINIMUM OF 1 WEEK FOR REVIEW AFTER SUBMITTAL.

SPECIAL NOTE:
G.C. TO TAKE ALL NECESSARY STEPS/PRECAUTIONS IN ORDER
TO PROTECT ALL FEATURES OF EXISTING BUILDING THAT ARE
TO REMAIN IN AREAS OF CONSTRUCTION AND ALL FEATURES IN
OTHER AREAS. PROTECT ALL FEATURES FROM DAMAGE DUE
TO MATERIALS STORAGE AND HANDLING AS WELL AS ACCESS.



PROPOSED UNISEX RESTROOM #2 FLOOR PLAN - ALTERNATE

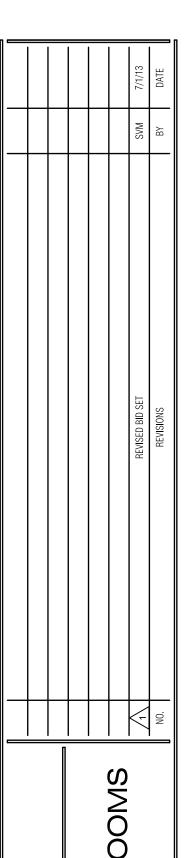
RESTROOM PLAN KEYED NOTES

- (N) SOLID WOOD CORE DOOR, SEE INTERIOR ELEVATIONS. PROVIDE WEATHER STRIPPING AT DOOR FOR SOUND TRANSMISSION MITIGATION.
- (N) WALL W/ STAGGERED 2x4 STUDS @ 8" O.C. (2 WALLS AT 16" O.C. SEE STRUCTURAL) WITH DOUBLE LAYER OF 1/2"
 TYPE X GYPSUM BOARD EACH SIDE AND "FIBERGLAS PINK"
 OR APPROVED EQUAL ACOUSTIC INSULATION (COMPLETELY FILL CAVITY) TYP. SEE DETAILS AND INTERIOR ELEVATIONS FOR MORE INFORMATION.
- AT DOUBLE WALL LOCATIONS PROVIDE 2x6 @ 16" O.C. SINGLE STUD WALLS WHERE SHOWN W/ FINISHES AS STATED ABOVE ON OUTSIDE FACE ONLY (FILL CAVITY WITH INSULATION AS STATED IN NOTE 2) G.C. OPTION G.C. MAY PROVIDE SINGLE LAYER OF 1/2" GYP OR OTHER APPROVED MEANS OF KEEPING INSULATION TIGHT ON HIDDEN WALL FACES AND LEAVE CAVITY BETWEEN WALLS EMPTY.
- (4) TILE OVER CONCRETE FLOOR, SEE INTERIOR ELEVATIONS.
- (5) COMBINATION TRASH RECEPTACLE/TOWEL DISPENSER. (SEE INTERIOR ELEVATIONS)
- (6) NEW PLUMBING FIXTURE, TYP. SEE PLUMBING PLANS.
- AT EXTERIOR SIDES OF NEW WALLS, PROVIDE RED PATTERNED CARPET TO MATCH (E) OVER PORTION OF WALL GLUED (MATCH ELEVATION OF FINISHES ON CONCESSION WALL). RUN SEAMS VERTICAL ON WALL TO MATCH (E) AT EXTERIOR OF CONCESSION WALL. AT BTM. OF WALL AND AT TOP OF CARPET PROVIDE PAINTED BATTEN TO MATCH EXISTING AT CONCESSION WALL. PROVIDE SKIM COAT FINISH TO MATCH (E) CONCESSION WALL ABOVE CARPET LEVEL TO CEILING. PROVIDE SAMPLE OF CARPET, MOCK UP OF TEXTURED FINISH AND MOCK UP OF BATTEN WITH PAINT FOR APPROVAL PRIOR TO CONSTRUCTION.
- 8 PROVIDE NEW PERPENDICULAR OVERHEAD RESTROOM SIGN AT (E) WALL BETWEEN RESTROOMS AS SHOWN (COORDINATE COLOR WITH OWNER PRIOR TO CONSTRUCTION).
- 9 PROVIDE NEW FLOOR-MOUNTED DOOR STOP WITH RUBBER BUMPER AT APPROXIMATE LOCATIONS SHOWN ON PLAN. (DOOR TO STOP CLEAR OF WALL)
- PROVIDE NEW ALUMINUM TRANSITION (BLACK) AT BTM. OF DOOR AT THRESHOLD. PROVIDE TRANSITION WIDTH SUFFICIENT TO COVER ENTIRE THRESHOLD SO THAT EACH TILE FINISH IS NOT SEEN FROM THE OPPOSITE SIDE OF THE DOOR (MIN. 10").

NOTE: G.C. TO PROVIDE ALL ADA SIGNAGE AS REQUIRED BY CODE INCLUDING BUT NOT LIMITED TO: ADA WALL PLACARD WITH BRAILLE INDENTIFICATION, GEOMETRIC DOOR SIGN, AND DOOR HARDWARE WITH OCCUPANCY INDICATOR (COORDINATE COLOR WITH OWNER PRIOR TO CONSTRUCTION).

ALTERNATE RESTROOM PLAN KEYED NOTES

- (N) SOLID WOOD CORE DOOR, SEE INTERIOR ELEVATIONS. PROVIDE WEATHER STRIPPING AT DOOR FOR SOUND TRANSMISSION MITIGATION.
- (N) WALL W/ STAGGERED 2x4 STUDS @ 8" O.C. (2 WALLS AT 16" O.C. SEE STRUCTURAL) WITH DOUBLE LAYER OF 1/2" TYPE X GYPSUM BOARD EACH SIDE AND "FIBERGLAS PINK" OR APPROVED EQUAL ACOUSTIC INSULATION (COMPLETELY FILL CAVITY) TYP. SEE DETAILS AND INTERIOR ELEVATIONS FOR MORE INFORMATION.
- AT DOUBLE WALL LOCATIONS PROVIDE 2x6 @ 16" O.C. SINGLE STUD WALLS WHERE SHOWN W/ FINISHES AS STATED ABOVE ON OUTSIDE FACE ONLY (FILL CAVITY WITH INSULATION AS STATED IN NOTE 2) G.C. OPTION G.C. MAY PROVIDE SINGLE LAYER OF 1/2" GYP OR OTHER APPROVED MEANS OF KEEPING INSULATION TIGHT ON HIDDEN WALL FACES AND LEAVE CAVITY BETWEEN WALLS EMPTY.
- 4 TILE OVER CONCRETE FLOOR, SEE INTERIOR ELEVATIONS.
- 5 COMBINATION TRASH RECEPTACLE/TOWEL DISPENSER. (SEE INTERIOR ELEVATIONS)
- 6 NEW PLUMBING FIXTURE, TYP. SEE PLUMBING PLANS.
- AT EXTERIOR SIDES OF NEW WALLS, PROVIDE RED PATTERNED CARPET TO MATCH (E) OVER PORTION OF WALL GLUED (MATCH ELEVATION OF FINISHES ON CONCESSION WALL). RUN SEAMS VERTICAL ON WALL TO MATCH (E) AT EXTERIOR OF CONCESSION WALL. AT BTM. OF WALL AND AT TOP OF CARPET PROVIDE PAINTED BATTEN TO MATCH EXISTING AT CONCESSION WALL. PROVIDE SKIM COAT FINISH TO MATCH (E) CONCESSION WALL ABOVE CARPET LEVEL TO CEILING. PROVIDE SAMPLE OF CARPET, MOCK UP OF TEXTURED FINISH AND MOCK UP OF BATTEN WITH PAINT FOR APPROVAL PRIOR TO CONSTRUCTION.
- (8) PROVIDE NEW PERPENDICULAR OVERHEAD RESTROOM SIGN AT (E) WALL BETWEEN RESTROOMS AS SHOWN (COORDINATE COLOR WITH OWNER PRIOR TO CONSTRUCTION).
- 9 PROVIDE NEW FLOOR-MOUNTED DOOR STOP WITH RUBBER BUMPER AT APPROXIMATE LOCATIONS SHOWN ON PLAN. (DOOR TO STOP CLEAR OF WALL)
- PROVIDE NEW ALUMINUM TRANSITION (BLACK) AT BTM. OF DOOR AT THRESHOLD. PROVIDE TRANSITION WIDTH SUFFICIENT TO COVER ENTIRE THRESHOLD SO THAT EACH TILE FINISH IS NOT SEEN FROM THE OPPOSITE SIDE OF THE DOOR (MIN. 10").
- NOTE: G.C. TO PROVIDE ALL ADA SIGNAGE AS REQUIRED BY CODE INCLUDING BUT NOT LIMITED TO: ADA WALL PLACARD WITH BRAILLE INDENTIFICATION, GEOMETRIC DOOR SIGN, AND DOOR HARDWARE WITH OCCUPANCY INDICATOR (COORDINATE COLOR WITH OWNER PRIOR TO CONSTRUCTION).



EGYPTIAN THEATRE RESTR

BINDEN • CARTER • SOUDERS

N G I N € € R I N G ≦

SO SW 6th Street - Suite C, Grants Pass, OR 97526

PROJECT NO: G-0586-13

DRAWN: SVM

CHECKED: SEA

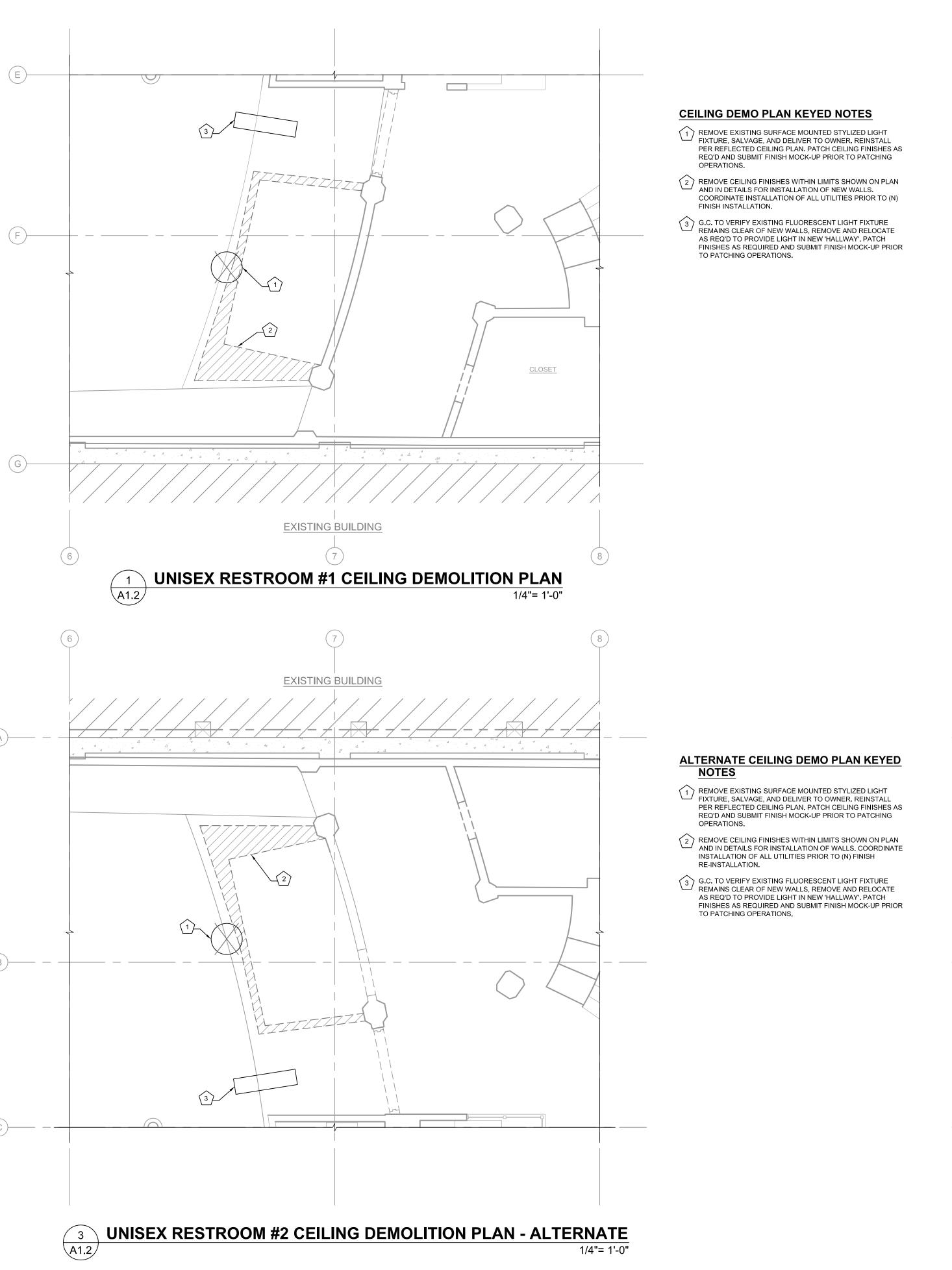
DATE: 06-24-13

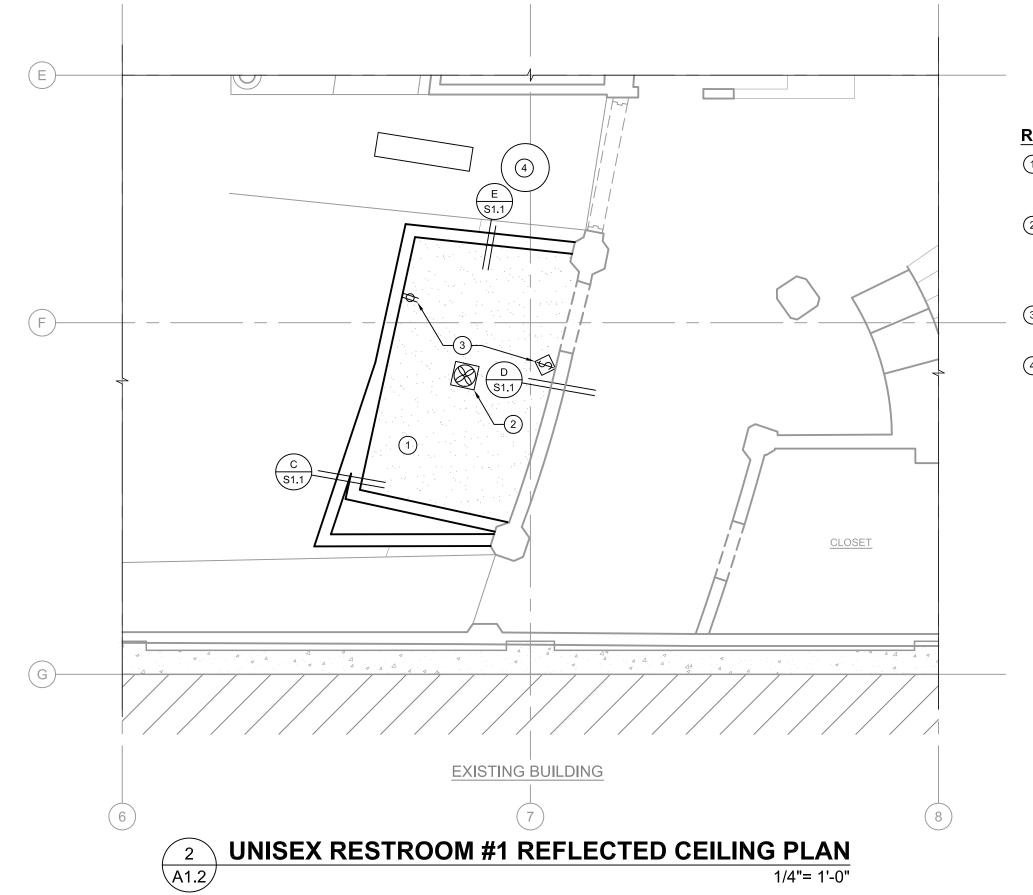
OREGON OF THE PROPERTY OF THE

EXPIRES: 12/31/13

RESTROOM PLANS

A . . .





EXISTING BUILDING

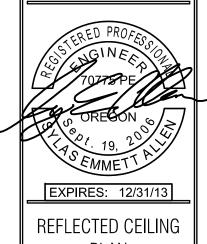
UNISEX RESTROOM #2 REFLECTED CEILING PLAN - ALTERNATE

REFLECTED CEILING PLAN KEYED NOTES

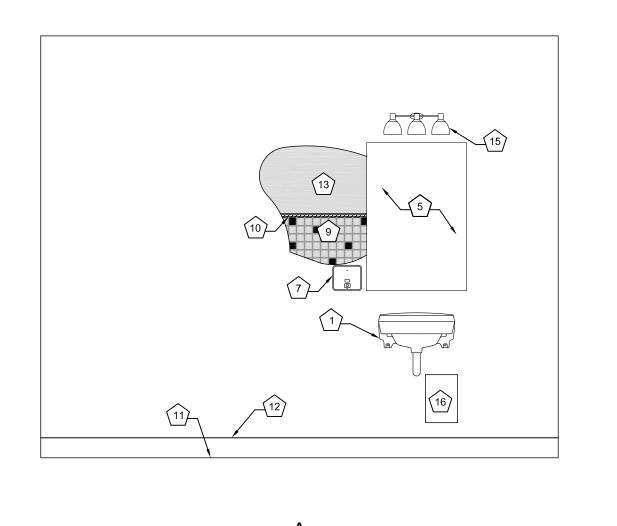
- 1 EXISTING CEILING AND FINISHES TO REMAIN. PLACE SINGLE LAYER OF OWENS-CORNING QUIET-ZONE ACOUSTICAL BATTS OR APPROVED EQUAL ABOVE CEILING. PAINT PER INTERIOR ELEVATIONS.
- 2 NEW EXHAUST FAN PER MECHANICAL DRAWINGS (FIELD PREP AND PAINT GRILLE TO MATCH CEILING COLOR 1 COAT PREP AND PAINT GRILLE TO MATCH CEILING COLOR - T COAPRIMER AND 2 COATS SATIN LATEX PAINT). MECHANICAL CONTRACTOR TO UTILIZE (E) RETURN AIR OPENING IN (E) CEILING FOR EXHAUST FAN. COORDINATE WITH MECHANICAL PLANS.
- 3 SWITCHING AND POWER PER ELECTRICAL PLANS. PROVIDE WHITE COLOR AT ALL COVERS AND FIXTURES FOR ELECTRICAL.
- (4) REINSTALL SALVAGED PERIOD LIGHTING FIXTURE AT LOCATION SHOWN (FINALIZE LAYOUT WITH OWNER PRIOR TO CONSTRUCTION)

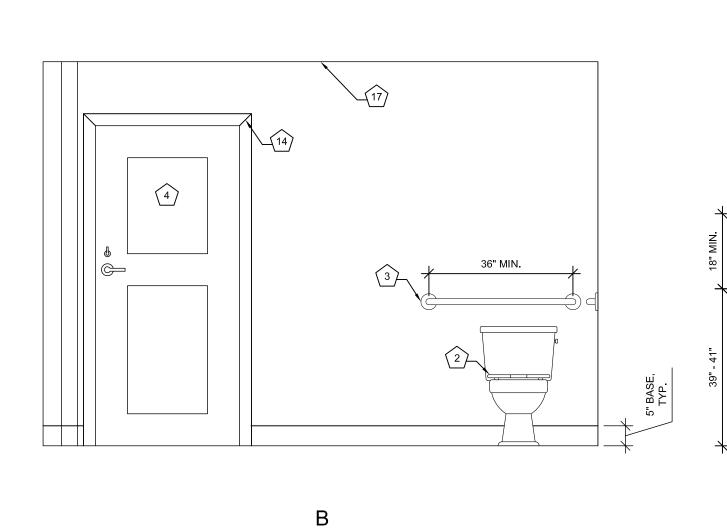
ALTERNATE REFLECTED CEILING PLAN **KEYED NOTES**

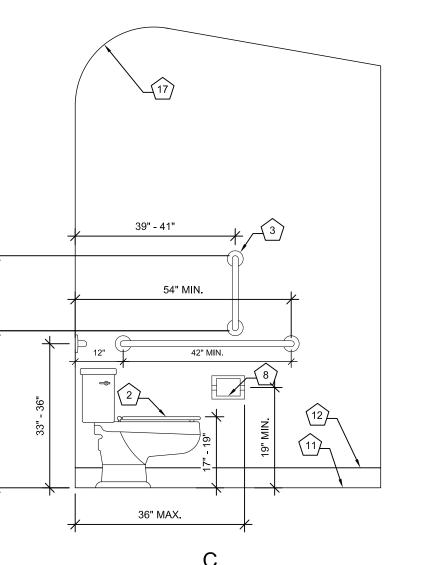
- 1) EXISTING CEILING AND FINISHES TO REMAIN. PLACE SINGLE LAYER OF OWENS-CORNING QUIET-ZONE ACOUSTICAL BATTS OR APPROVED EQUAL ABOVE CEILING. PAINT PER INTERIOR ELEVATIONS.
- NEW EXHAUST FAN PER MECHANICAL DRAWINGS (FIELD PREP AND PAINT GRILLE TO MATCH CEILING COLOR 1 COAT PRIMER AND 2 COATS SATIN LATEX PAINT). MECHANICAL CONTRACTOR TO UTILIZE (E) RETURN AIR OPENING IN (E) CEILING FOR EXHAUST FAN. COORDINATE WITH MECHANICAL PLANS.
- 3 SWITCHING AND POWER PER ELECTRICAL PLANS. PROVIDE WHITE COLOR AT ALL COVERS AND FIXTURES FOR
- 4 REINSTALL SALVAGED PERIOD LIGHTING FIXTURE AT LOCATION SHOWN (FINALIZE LAYOUT WITH OWNER PRIOR TO CONSTRUCTION)

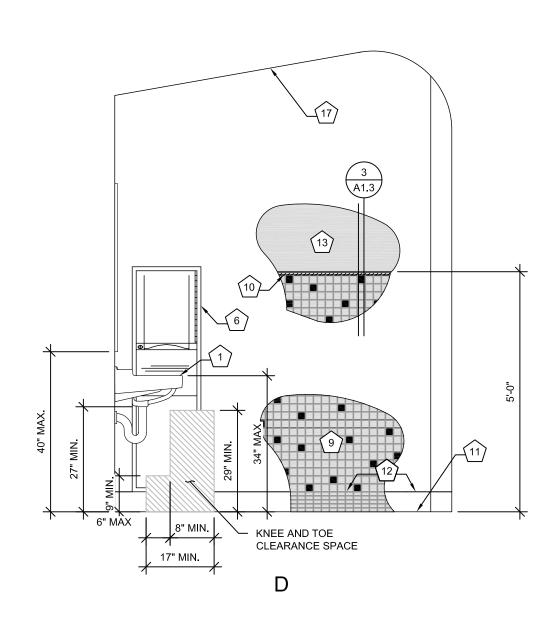


CHECKED:

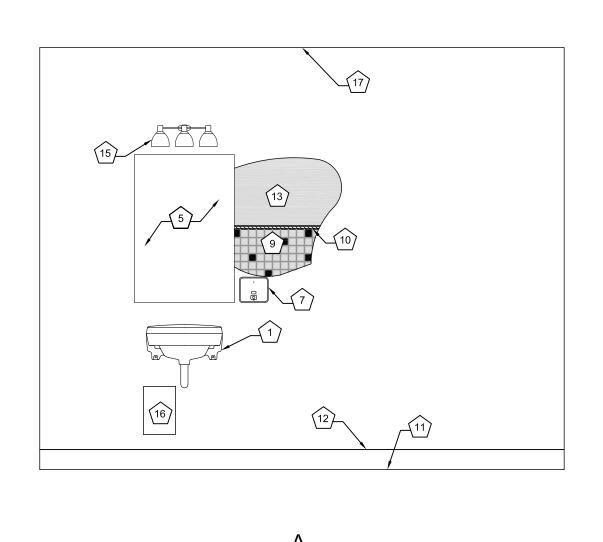


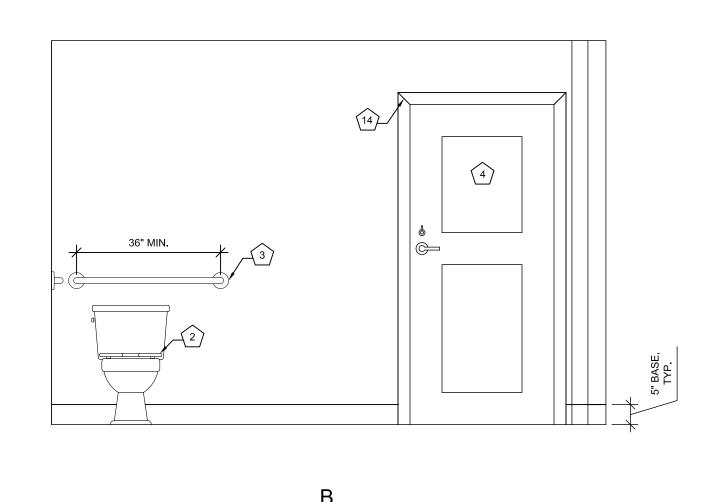


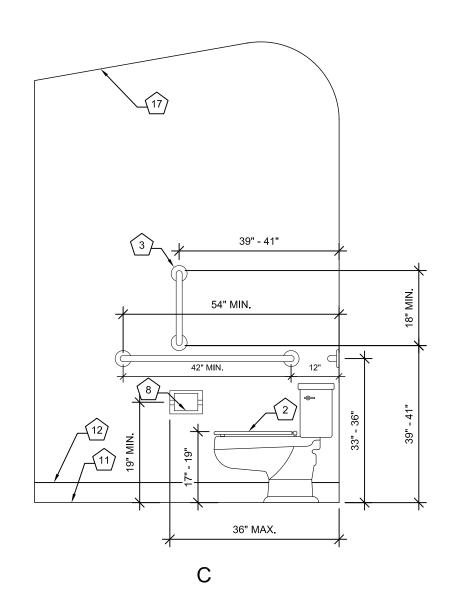


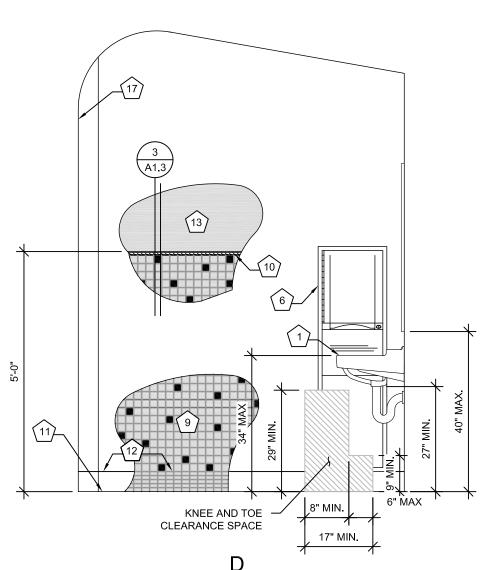


1 UNISEX BATHROOM #1 INTERIOR ELEVATIONS 1/2"= 1'-0"

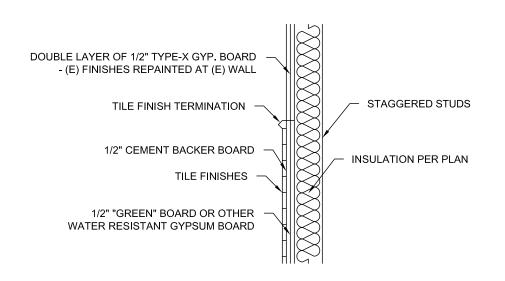








2 UNISEX BATHROOM #2 INTERIOR ELEVATION - ALTERNATE
1/2"= 1'-0"



RESTROOM FINISH DETAIL
1"= 1'-0"

- GENERAL INTERIOR ELEVATION NOTES:
- AMERICAN STANDARD WALL-MOUNT LAVATORY PER PLUMBING PLANS (PROVIDE WHITE INSULATED TRAP AND HOT WATER COVERS, TYP.)
- 2 AMERICAN STANDARD TOILET PER PLUMBING PLANS

 3 BOBRICK OR APPROVED EQUAL 1-1/2" O.D. STAINLESS STEEL GRAB BARS AS SHOWN WITH NON-SLIP SURFACE

AND CONCEALED FLANGE MOUNTING

- JELD-WEN MODEL 0028 2-PANEL DOOR OR APPROVED EQUAL SOLID WOOD CORE DOOR PAINT GOLD TO MATCH OTHER LOBBY DOORS. PROVIDE MINIMUM 20 MINUTE RATED ASSEMBLY. HARDWARE TO BE L-SERIES MORTISE LOCK AS MANUFACTURED BY SCHLAGE LOCKS, WITH LEVER HANDLE AND EZ TURN TOGGLE BOLT WITH BRONZE FINISH TO MATCH (E) HARDWARE. PROVIDE OCCUPANCY INDICATOR. PROVIDE METAL DOOR FRAME (BLACK FACTORY FINISH) WITH METAL CASING ON RESTROOM SIDE (SEE NOTE 14 FOR FINISH) AND METAL CASING (BLACK FACTORY FINISH) ON LOBBY SIDE. LAP CASING OVER FINISHES AT EACH SIDE AND FIELD VERIFY WALL WIDTH
- TEMPERED GLASS FRAME-LESS MIRROR (DELETE TILE AS REQUIRED TO INSTALL MIRRORS AND SET TIGHT INTO TILE CAVITY AT WALL)

DOORS OR APPROVED EQUAL.

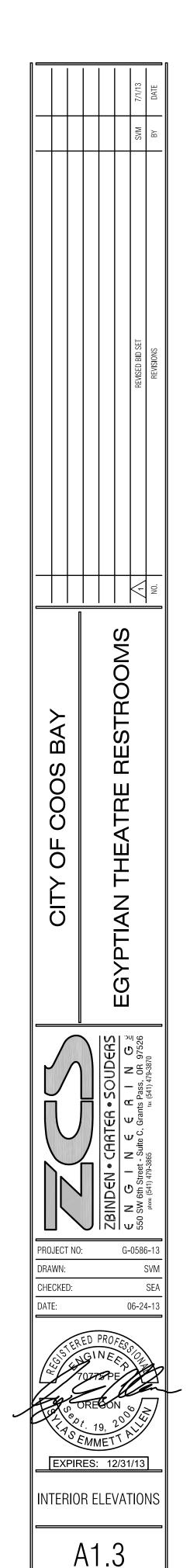
FOR FRAME ORDERING. MANUFACTURER TO BE CECO

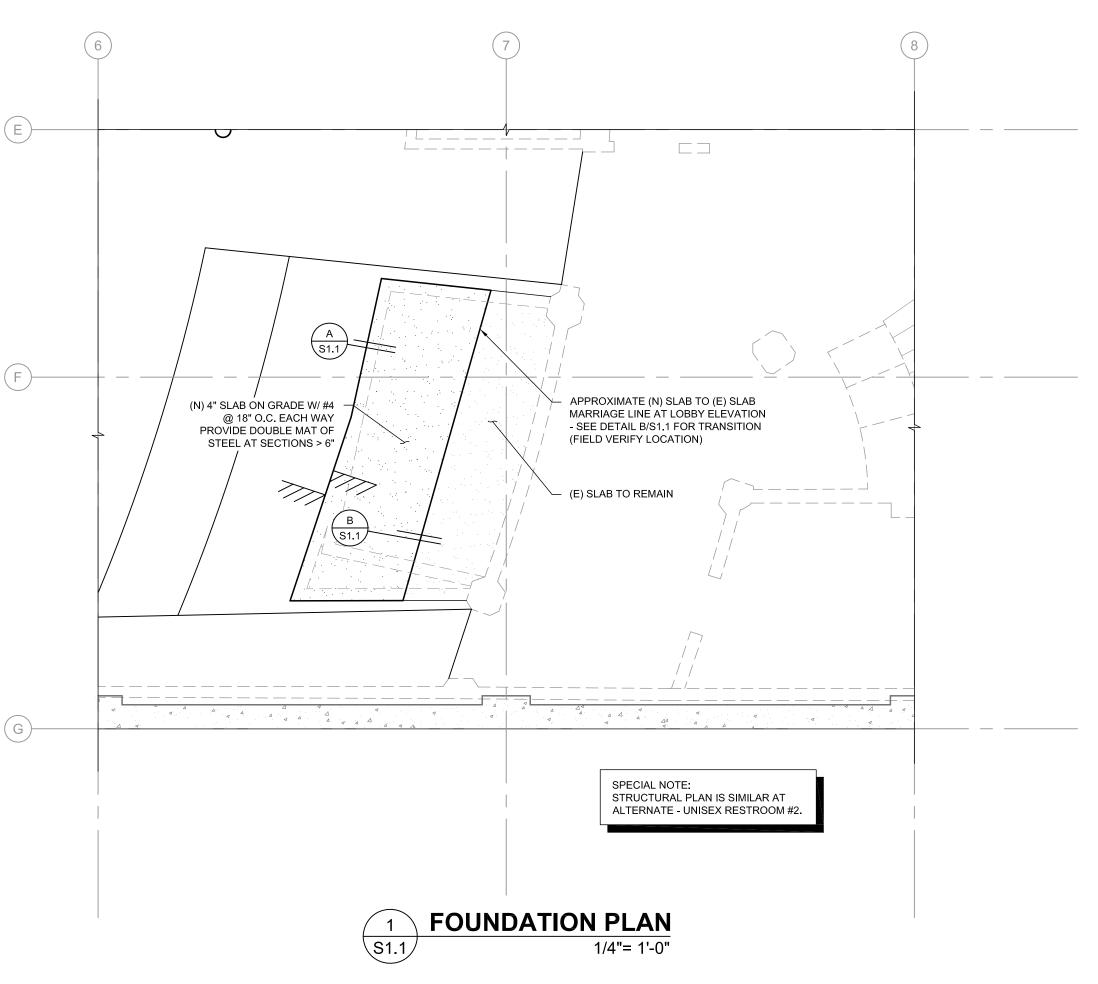
- BOBRICK B-3942 SEMI-RECESSED CONVERTIBLE PAPER TOWEL DISPENSER/WASTE RECEPTACLE OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS, (MUST MEET ALL ADA REQUIREMENTS)
- 7 BOBRICK B-4063 STAINLESS STEEL RECESSED SOAP DISPENSER OR APPROVED EQUAL (PLACEMENT PER ADA STANDARDS)
- 8 BOBRICK B-663 STAINLESS STEEL RECESSED TOILET TISSUE DISPENSER OR APPROVED EQUAL

- 9 TILE WAINSCOT WALL FINISH FIELD TILE IS AMERICAN OLEAN UNGLAZED CERAMIC MOSAICS 2"x2" (CAPPUCCINO A78) ACCENT TILE IS DAL-TILE GLAZED 2"x2" (BLACK 6421). PLACE 75% FIELD, 25% ACCENT. (TYP.) RANDOM PATTERN
- TRIM TILE FINISH DAL-TILE 1'x6" ROPE LINER (BLACK GLOSS) (TYP.)
- TILE FLOOR FINISH AMERICAN OLEAN UNGLAZED CERAMIC MOSAICS 2"x2" (CAPPUCCINO A78) (TYP.)
- TILE COVE/TRANSITION AMERICAN OLEAN UNGLAZED CERAMIC MOSAICS 2"x1" (CAPPUCCINO A78) (TYP.)
- TEXTURED AND PAINTED WALL AND CEILING FINISH SKIM COAT TO MATCH (E) CEILING AT (N) WALLS (SUBMIT TEXTURE MOCK-UP PRIOR TO CONSTRUCTION FOR APPROVAL). PAINT 1 COAT PRIMER AND 2 FINISH COATS OF SATIN LATEX KELLY MOORE (SPANISH SAND 231) OR APPROVED EQUAL. (TYP.)
- PAINTED CASING FINISH 1COAT PRIMER SUITABLE FOR METAL SUBSTRATE AND 2 FINISH COATS OF SEMI-GLOSS LATEX KELLY MOORE (SPANISH SAND) OR APPROVED EQUAL. (TYP.) (G.C. TO PREP METAL FOR RE-FINISH IN
- LIGHT FIXTURE PER ELECTRICAL PLANS (OIL-RUBBED BRONZE FINISH)
- POINT OF USE WATER HEATER SEE PLUMBING PLANS\
- PAINT ALL (E) FINISHES TO REMAIN (CEILING AND TRANSITION AND (E) WALL ABOVE TILE) TO MATCH NEW WALL FINISHES ABOVE TILE.

NOTE: ALL SHEET METAL VISIBLE THROUGH SUPPLY AND EXHAUST GRILLS TO BE PAINTED FLAT BLACK

NOTE: TILE BOND COAT TO BE LATICRETE 4237. PROVIDE 1/2" THICK CEMENT BACKER BOARD AT WAINSCOT. PROVIDE REINFORCED CRACK ISOLATION TAPE TO SPAN CONSTRUCTION JOINTS AND OTHER CRACKS AT CONCRETE SLABS. PROVIDE MATTE GROUT SEALER AS RECOMMENDED BY MAN. WITH POLYMER MODIFIED GROUT





PROJECT STRUCTURAL NOTES (COOS BAY, OREGON)

GENERAL INFORMATION:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REQUIREMENTS FROM THESE DRAWINGS INTO THEIR SHOP DRAWINGS AND WORK. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE GENERAL NOTES AND TYPICAL DETAILS. 2. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS
- RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY SIGNIFICANT DISCREPANCIES FROM
- CONDITIONS SHOWN ON THE DRAWINGS. 4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS. RESPONSIBILITY SHALL INCLUDE BUT IS NOT LIMITED TO DEMOLITION AND CONSTRUCTION MEANS AND METHODS, TECHNIQUES, SEQUENCING, AND SAFETY REQUIRED TO
- COMPLETE CONSTRUCTION. 5. UNLESS OTHERWISE NOTED, MATERIAL AND DESIGN SPECIFICATIONS CITED HEREIN SHALL BE
- THOSE CONFORMING WITH THE VERSION OF THE APPLICABLE SPECIFICATIONS OR CODE MOST RECENTLY ADOPTED BY THE PERMITTING AUTHORITY. 6. ALL FEATURES OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME TYPE AND CHARACTER AS SHOWN FOR SIMILAR CONDITIONS, SUBJECT TO REVIEW BY THE STRUCTURAL
- ENGINEER OF RECORD. 7. ALL PRODUCTS AND MATERIALS USED BY THE CONTRACTOR SHALL BE APPLIED, PLACED, ERECTED OR INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

CODE REQUIREMENT:

1. CONFORM TO THE 2010 OREGON STRUCTURAL SPECIALTY CODE (OSSC), BASED ON THE 2009

DESIGN CRITERIA:

- 1. THE FOLLOWING WORK IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN SECTION 1704 OF CAST-IN-PLACE CONCRETE
- 2. DESIGN IS BASED ON THE STRENGTH AND DEFLECTION CRITERIA OF THE OSSC.

SPECIAL INSPECTION:

1. SPECIAL INSPECTIONS WILL BE PROVIDED BY THE OWNER BASED ON THE REQUIREMENTS OF THE OSSC. CONTRACTOR SHALL PROVIDE SUFFICIENT NOTICE AND ACCESS FOR THE SPECIAL INSPECTOR TO PERFORM THESE INSPECTIONS.

DIVISION 06 - WOOD, PLASTICS AND COMPOSITES

FRAMING LUMBER:

- 1. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH AND SHALL BE GRADED UNDER THE MOST RECENTLY ADOPTED RULES OF THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL BEAMS AND JOISTS SHALL BE NO. 2 MINIMUM, UNLESS INDICATED OTHERWISE ON THE PLANS.
- ALL STUDS AND BLOCKING SHALL BE NO. 2. 4. ALL LUMBER IN CONTACT WITH CONCRETE OR EXPOSED SHALL BE PRESSURE TREATED IN
- ACCORDANCE WITH AWPA STANDARD C-2 AND SHALL BEAR THE AWPA QUALITY MARK.

NAILING AND FASTENERS:

- NAILING INDICATED ON PLANS AND DETAILS ARE "COMMON" NAILS. MINIMUM FRAMING NAILING SHALL CONFORM TO OSSC TABLE 2304.9.1 SEE DETAILS FOR ADDITIONAL TYPICAL NAILING REQUIREMENTS. SUBSTITUTION OF NAILS OTHER THAN "COMMON" IS NOT PERMITTED WITHOUT PRIOR APPROVAL
- 2. POWER DRIVEN NAILS OTHER THAN "COMMON" NAILS MAY BE USED IF DATA IS SUBMITTED AND APPROVED PRIOR TO USE.
- 3. JOIST HANGERS, HOLDOWNS AND OTHER FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULAR TYPE AS MANUFACTURED BY SIMPSON COMPANY, SAN LEANDRO, CA. ALL HARDWARE
- IS TO BE FASTENED PER MANUFACTURER'S SPECIFICATIONS, U.N.O. 4. ALL PLATES AND LEDGERS SHALL BE ANCHORED WITH A MINIMUM OF THREE FASTENERS PER

DIVISION 03 - CONCRETE

1. CONCRETE WORK SHALL CONFORM TO CHAPTER 19 OF THE OSSC. CONCRETE STRENGTH SHALL BE AS FOLLOWS:

- 2. VERIFY WATER/CEMENT RATIO WITH FLOOR COVERING MANUFACTURER FOR CONCRETE FLOORS WITH MOISTURE SENSITIVE FLOOR COVERINGS, AND VERIFY COORDINATE WITH PROJECT
- 3. FLY ASH CONFORMING TO ASTM C618 (INCLUDING TABLE 2A) TYPE F, MAY BE USED TO REPLACE UP TO 20% OF THE CEMENT CONTENT, PROVIDED THAT THE MIX STRENGTH IS SUBSTANTIATED BY TEST
- 4. THE CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS, ALONG WITH TEST DATA COMPLIANT WITH OSSC SECTION 1905, A MINIMUM OF TWO WEEKS PRIOR TO PLACING CONCRETE. NO WATER MAY BE ADDED TO CONCRETE IN THE FIELD UNLESS SPECIFICALLY APPROVED IN WRITING BY THE CONCRETE SUPPLIER IN CONJUNCTION WITH THE CONCRETE MIX DESIGN.
- 5. A WATER-REDUCING ADMIXTURE CONFORMING TO ASTM C494, USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, SHALL BE INCORPORATED IN CONCRETE DESIGN MIXES. A HIGH-RANGE WATER-REDUCING (HRWR) ADMIXTURE CONFORMING TO ASTM C494, TYPE F OR G, MAY BE USED IN CONCRETE MIXES PROVIDING THAT THE SLUMP DOES NOT EXCEED 8". AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN CONCRETE MIXES FOR EXTERIOR HORIZONTAL SURFACES EXPOSED TO WEATHER. THE AMOUNT OF ENTRAINED AIR SHALL BE 5% +/- 1% BY VOLUME.

CONCRETE CAST IN PLACE:

- CONCRETE SHALL HAVE A MAXIMUM SLUMP OF 4" WITHOUT THE USE OF ADMIXTURES AS NOTED. 2. CONCRETE MATERIALS, FORM WORK, MIXING, PLACING AND CURING SHALL CONFORM WITH THE
- SPECIFICATIONS CONTAINED IN THE A.C.I. "MANUAL OF CONCRETE PRACTICE".
- 3. AT AREAS OF DEPRESSIONS FOR SLABS AND BEAMS, PROVIDE MINIMUM THICKNESS OF DEPTH AS FOR ADJACENT AREAS, UNLESS NOTED OTHERWISE.
- 4. BOND NEW CONCRETE TO EXISTING CONCRETE WITH "WELD-CRETE", AS MANUFACTURED BY LARSON PRODUCTS CORPORATION, OR APPROVED, AS MINIMUM, EXISTING CONCRETE SURFACES SHALL BE ROUGHENED BY CHIPPING TO A MINIMUM 1/4" AMPLITUDE TO EXPOSE COARSE AGGREGATE. PREPARATION AND APPLICATION IS TO BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

CONCRETE REINFORCING STEEL:

- 1. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60 FOR DEFORMED BARS UNLESS OTHERWISE NOTED. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.
- REINFORCING STEEL SHALL BE SECURELY TIED IN PLACE WITH #16 ANNEALED IRON WIRE. 2. BARS IN SLABS SHALL BE SUPPORTED ON WELL CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, AS SPECIFIED BY THE CRSI MANUAL OF STRANDED PRACTICE, MSP-1. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315. LAP ALL REINFORCING BARS PER THE TYPICAL LAP SPLICE LENGTH SCHEDULE, EXCEPT AS NOTED.

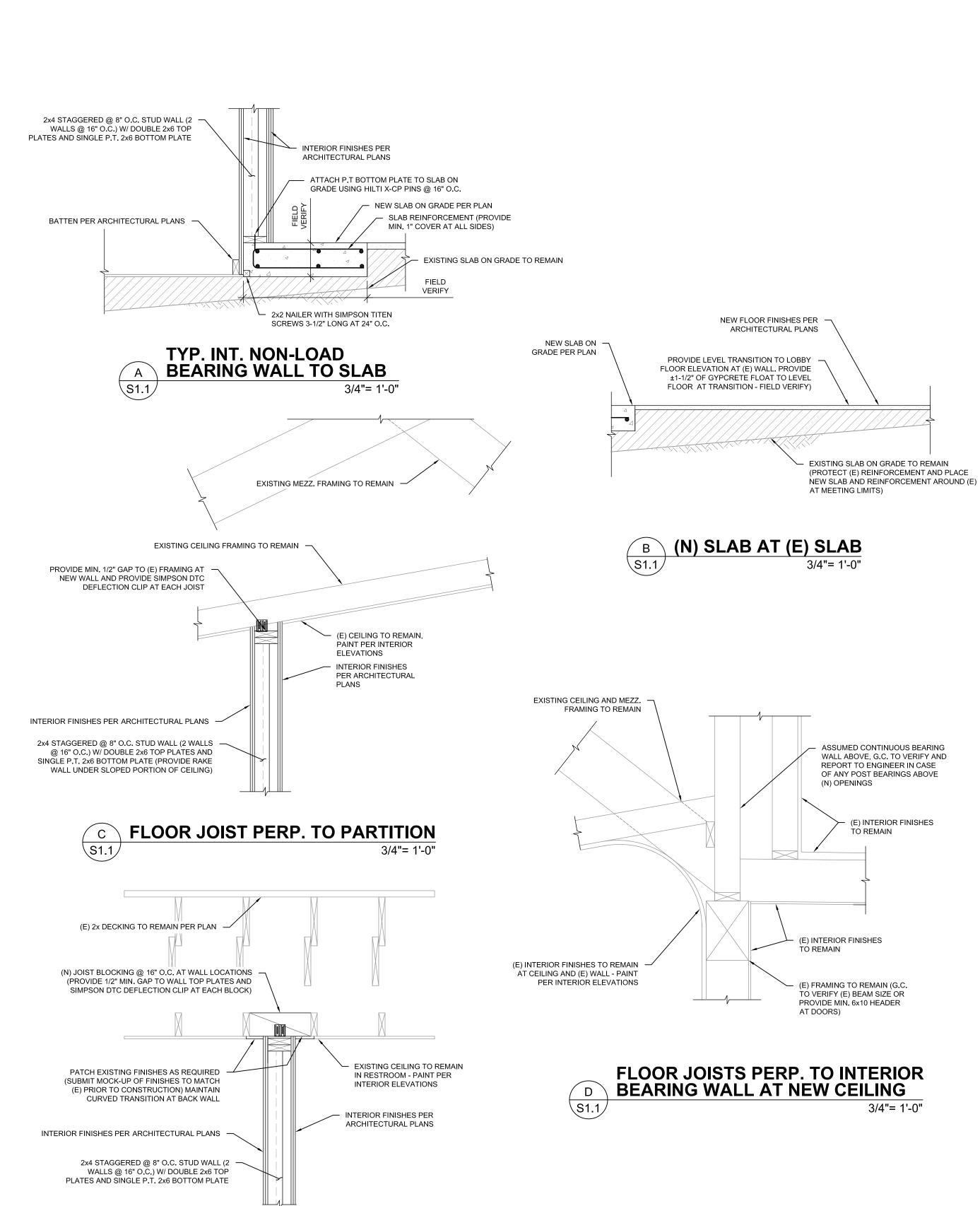
TYPICAL LAP SPLICE LENGTH SCHEDULE

A. DIMENSIONS ARE IN INCHES.

- B. FOR TOP BARS, MULTIPLY LAP LENGTH ABOVE BY 1.3. TOP BARS ARE HORIZONTAL BARS WITH
- MORE THAN 12" OF CONCRETE CAST BELOW THE BARS. C. REINFORCING STEEL SHALL HAVE PROTECTION AS FOLLOWS:

<u>USE</u> SLAB BARS:

- 3. ALL REINFORCING STEEL SHALL BE TIED 100% ALONG ALL PERIMETER EDGES AND 50%FIELD.
- 4. REINFORCING (MINIMUM UNLESS NOTED OTHERWISE ON PLANS) A. PLACE TWO (2) NO. 4x OPENING DIMENSIONS PLUS 4'-0" EACH SIDE OF ALL OPENINGS AND TWO (2) NO. 4x4'-0" DIAGONAL BARS AT EACH CORNER OF ALL SLAB OPENINGS GREATER THAN 1'-6"
- 6. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH A.C.I. DETAILING MANUAL 315.
- A. ALL REINFORCING STEEL SHALL BE ACCURATELY AND SECURELY PLACED. B. REINFORCING SHALL NOT BE BENT OR DISPLACED FOR THE CONVENIENCE OF OTHER TRADES,
- UNLESS APPROVED BY THE STRUCTURAL ENGINEER. 7. REINFORCEMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT, UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER OF RECORD.



FLOOR JOIST PARAL. TO PARTITION

BA G-0586-13 PROJECT NO: DRAWN: CHECKED: 06-24-13 STRUCTURAL PLANS AND DETAILS

DUCT	& FITTING	SYMBOLS	HVAC SYMBOLS	& ABBREVIATIONS	GENERAL	SYMBOLS
DOUBLE LINE	SINGLE LINE	DESCRIPTION	<u> </u>	DUCT WITH INTERNAL	©	CAP FOR FUTURE
SA -		SUPPLY AIR	11	ACOUSTICAL INSULATION	lacktriangle	POINT OF NEW CONNECTION
RA -		RETURN AIR	AD AD	ACCESS DOOR	$\underline{\underline{\wedge}}$	REVISION NUMBER
			<u> </u>	VOLUME DAMPED	$\stackrel{\swarrow}{\times}$	POINT OF CONTINUATION
OSA -		OUTSIDE AIR	1	VOLUME DAMPER	$\langle \overline{XX} \rangle$	EQUIPMENT TAG EQUIPMENT NUMBER
EA -		EXHAUST AIR ECONOMIZER RELIEF AIR	FD FD	COMBINATION FIRE / SMOKE DAMPER	(XX) (XX)	SECTION (LETTER) OR DETAIL (NUMERICAL) DESIGNATION SHEET NUMBER
		RECTANGULAR DUCT SIZE		VERTICAL FIRE DAMPER		SECTION DESIGNATION
12x12	12x12	FIRST NUMBER INDICATES VISIBLE DIMENSION AND SECOND NUMBER INDICATES	FD	VERTICAL FIRE DAMPER	GPM X"	SHEET NUMBER PIPE SIZE AND FLOW TAG
		HIDDEN DIMENSION. ALL DIMENSIONS ARE INCHES.	 	MOTORIZED DAMPER		
12"ø	12"ø	ROUND DUCT DIAMETER	BD BD			GENERAL BREAK
				BACKDRAFT DAMPER		LINE BREAK DUCTWORK FITTING TYPE
<u>{</u> 48x18ø }	48x18ø	FLAT OVAL DUCT		OPPOSED BLADE DAMPER	A	SEE HIGH PRESSURE FABRICATED FITTING CONSTRUCTION DETAILS
$\bigotimes \square \bigotimes \square$	\otimes - \boxtimes -	SUPPLY DUCT UP]	OPPOSED BLADE DAMPER	1	KEYED NOTES
		OR SECTION		PARALLEL BLADE DAMPER	Œ	EXISTING
		SUPPLY DUCT DOWN OR SECTION AWAY		FLEXIBLE DUCT CONNECTION	R	RELOCATED
	0-Z-	RETURN OR OSA	^	FLEXIBLE DUCT	PIPF	SYMBOLS
		DUCT UP OR SECTION	─ ✓	DIRECTION OF AIRFLOW	<u> </u>	
		RETURN OR OSA		SUPPLY DIFFUSER	———R———	REFRIGERANT PIPING
		DUCT DOWN OR SECTION			NG	NATURAL GAS PIPING
	\otimes - \boxtimes -	EXHAUST DUCT UP		RETURN GRILLE		CHILLED WATER SUPPLY
		OR SECTION		EXHAUST GRILLE	— — CWR— —	CHILLED WATER RETURN
		EXHAUST DUCT DOWN OR SECTION		PRESSURE RELIEF GRILLE	CD	CONDENSATE DRAIN PIPING
		OR SECTION	<u> </u>		——HWS——	HOT WATER SUPPLY
	──	TRANSITION		WALL OR DUCT REGISTER OR GRILLE	— —нwr— —	HOT WATER RETURN
- ·		COLUNDS TO DOUND	п п			DIRECTION OF FLOW
SQR RND		SQUARE TO ROUND TRANSITION	or [LINEAR DIFFUSER		CHANGE IN SIZE
		FLANGED TAKEOFF		FILTER		PIPE DOWN
		(RECTANGULAR DUCT)		HILILIN		PIPE UP
<u></u>	~	LATERAL HIGH EFFICIENCY	AD	CEILING ACCESS DOOR		TEE DOWN
	7	TAKE-OFF FITTING W / VD (SQR TO RND TAKEOFF		TEMPERATURE CALLOR		TEE UP
<u> </u>	VD ON	FROM RECTANGULAR MAIN) BRANCH DUCT	①	TEMPERATURE GAUGE		CAP
	$\overline{}$	CONICAL 90° TAKE-OFF (ROUND / OVAL DUCT)	(P)	PRESSURE GAUGE — OUTLET / INLET TAG		PIPE UNION
, <u>1</u>		(, ,	(F) XX	— AIRFLOW, CFM		GATE VALVE
	$\overline{}$	45° LATERAL TAKE-OFF	XXX	PREFIX (F) INDICATES		BALL VALVE
, , , , , , , , , , , , , , , , , , ,		(ROUND / OVAL DUCT)		A FIRE RATED GRILLE, REGISTER, OR DIFFUSER	Ÿ	PRESSURE GAUGE
R	-1C Cl -	DUCT SLOPE UP (RISE)	\wedge	HUMIDISTAT OR	¥	TEMPERATURE GAUGE GAUGE
		,	<u> </u>	HUMIDITY SENSOR		PRESSURE REDUCING VALVE
₽ D P	+>>	DUCT SLOPE DOWN (DROP)	T	THERMOSTAT OR TEMP SENSOR	<u>'L'</u>	PRESSURE & TEMPERATURE GAUGE PORT
1 1				BUOT GUOVE DETECTOR		BALANCING VALVE
<u> </u>		END CAP	<u>/ b \</u>	DUCT SMOKE DETECTOR		PUMP
	_		SD	SMOKE DETECTOR		GLOBE VALVE
		RECTANGULAR MITERED ELBOW W/ TURNING VANES	SP	STATIC PRESSURE SENSOR		CHECK VALVE
<u> </u>	I		\wedge			SAFETY RELIEF VALVE
3434	×××.	RECTANGULAR TEE —	<u>/CO₂\</u>	CARBON DIOXIDE SENSOR		TWO WAY CONTROL VALVE
		90° MITERED ELBOWS W/ TURNING VANES	ES	EMERGENCY SWITCH		THE MAT CONTINUE VALVE
' 🕌	" 	.,				THREE WAY CONTROL VALVE
						STRAINER
		90° OR 45° LONG RADIUS ELBOW, R=1.5 DIA OR WIDTH			——⊗——	STEAM CONDENSATE TRAP
R X	R X	(ROUND OR RECTANGULAR DUCT)				
D or W	•					

GENERAL NOTES

- 1. CONTRACTOR TO SECURE, MAINTAIN, AND PAY FOR ALL REQUIRED LICENSES AND INSPECTIONS FOR DURATION OF WORK UNLESS DIRECTED OTHERWISE.
- 2. ALL DUCTWORK SHALL BE GALVANIZED STEEL, ROUND OR RECTANGULAR. SUPPORT PER SMACNA DUCT CONSTRUCTION STANDARDS AND INSTALL IN CONFORMANCE TO MECHANICAL CODES. EXHAUST AIR DUCTS SHALL BE CONSTRUCTED TO +1" PRESSURE STANDARD. SEAL ALL DUCTS TO CLASS "B" STANDARDS.
- PROVIDE TURNING VANES FOR ALL SUPPLY AIR AND RETURN AIR RECTANGULAR ELBOWS.
- 4. FLEXIBLE DUCTS SHALL BE INSULATED NONMETALLIC, FORM "NM-1L', MAXIMUM LENGTH OF 5'-0" AT DIFFUSER OR GRILLE CONNECTION. BUTTERFLY BALANCING OR DAMPERS WHERE SHOWN OR REQUIRED, ROUND OR RECTANGULAR, GALVANIZED SHEET METAL, WITH EXTERNAL INDICATING QUADRANT AND SETSCREW.
- 5. SHEET METAL DUCT SIZES SHOWN ARE NET CLEAR INSIDE DIMENSIONS. WHEN INTERNAL INSULATION IS REQUIRED, DUCT SIZE SHALL BE INCREASED TO PROVIDE NET CLEAR DIMENSIONS INDICATED.
- MECHANICALLY FASTEN CONNECTIONS BETWEEN METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK, SHALL BE SECURELY FASTENED AND SEALED WITH

- WELDS, GASKETS, MASTICS (ADHESIVES), MASTIC-PLUS-EMBEDDED-FABRIC SYSTEMS, OR TAPES IN ACCORDANCE WITH UL 181A OR UL 181B.
- 7. ALL EXHAUST AIR DUCTWORK SHALL BE INSULATED FROM THE AIR OUTLET TO 20 FEET IN WITH 1-1/2" THICK, 3/4 LB. DENSITY, FIBERGLASS DUCT WRAP FACED WITH OUTER FOIL BLANKET, MINIMUM INSTALLED R-VALUE 3.5.
- 8. MOTORIZED OUTDOOR AIR AND EXHAUST AIR DAMPERS SHALL HAVE A MAXIMUM LEAKAGE RATE OF 4 CFM / SF AT 1.0" W.G. EXCEPT FOR FACTORY BUILT PACKAGED SYSTEMS, WHICH MAY HAVE A LEAKAGE NOT TO EXCEED 20 CFM / SF AT 1.0" W.G.
- 9. TEST THE OPERATION OF MECHANICAL SYSTEMS AND EQUIPMENT FOR COMPLIANCE WITH CONTRACT CONDITIONS. MEASURE AIR QUANTITIES WITH CALIBRATED DEVICES CAPABLE OF MEASURING AIR QUANTITIES ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DEVICE. ADJUST ALL DAMPERS, DRIVES, MOTORS, AND OTHER ADJUSTABLE ITEMS TO DELIVER DESIGN QUANTITIES IN ACCORDANCE WITH NEBB PROCEDURAL STANDARDS (2005) OR AABC NATIONAL STANDARDS (2002). PROVIDE ALL NECESSARY BELTS, SHEAVES, ETC. PROVIDE BALANCE REPORT TO OWNER AND ENGINEER.
- 10. CONTRACTOR SHALL SUPPLY ALL REQUIRED STARTERS. DISCONNECTS AND POWER WIRING BY ELECTRICAL CONTRACTOR.

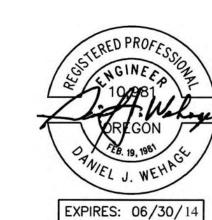
			HVAC ABBREVIATIONS		
ACFM	ACTUAL AIR — CUBIC FEET PER MINUTE	FLA	FULL LOAD AMPS	ОС	ON CENTER
ACH	AIR CHANGES PER HOUR	FLR	FLOOR	OA or OSA	OUTSIDE AIR
AD	ACCESS DOOR	FOB	FLAT ON BOTTOM	OMSC	2010 OREGON MECHANICAL SPECIALTY CODE
AFF	ABOVE FINISH FLOOR	FOT	FLAT ON TOP	OSSC	2010 OREGON STRUCTURAL SPECIALTY CODE
AHU AL	AIR HANDLING UNIT ALUMINUM	FPM	FEET PER MINUTE	PBD	PARALLEL BLADE DAMPER
AL AP	ACCESS PANEL	FSD	COMBINATION FIRE / SMOKE DAMPER	PSI	POUNDS PER SQUARE INCH
ARCH	ARCHITECT OR ARCHITECTURAL	GALV	GALVANIZED STEEL	PT	PRESSURE / TEMPERATURE PLUG
ATD	AIR TRANSFER DUCT	GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE
		GM	GAS METER	, , ,	
BD	BACKDRAFT DAMPER	GPM	GALLONS PER MINUTE	RA	RETURN AIR
BLDG	BUILDING	GRD	GRILLES, REGISTERS, DIFFUSERS	RECT	RECTANGULAR
BM	BEAM DOTTON OF BUILDE			RPM	REVOLUTIONS PER MINUTE
BOD BOP	BOTTOM OF DUCT BOTTOM OF PIPE	H HDPE	HUMIDISTAT	REQ'D	REQUIRED
BOS	BOTTOM OF FIFE BOTTOM OF STEEL	HDPE HEPA	HUGH-DENSITY POLYETHYLENE HIGH EFFICIENCY PARTICULATE AIR	C 4	CUDDLY AID
BTU	BRITISH THERMAL UNIT	HP	MOTOR HORSEPOWER	SA SCFM	SUPPLY AIR STANDARD AIR — CUBIC FEET PER MINUTE
		HVAC	HEATING, VENTING, AND CONDITIONING	SEC	SECTION — COBIC FEET FEIT MINOTE
CDV	CLOTHES DRYER VENT	HPW	HEAT PUMP WATER	SF or SQ FT	
CFH	CUBIC FEET PER HOUR	HPWR	HEAT PUMP WATER RETURN	SIM	SIMILAR
CFM	CUBIC FEET PER MINUTE	HPWS	HEAT PUMP WATER SUPPLY	SM	SHEET METAL
CLG	CEILING			SMACNA	SHEET METAL AND AIR CONDITIONING
CONSTR CV	CONSTRUCTION CONSTRAINT VOLUME	LB(S)	POUND, POUNDS	0.0	CONTRACTORS NATIONAL ASSOCIATION
CV	CONSTRAINT VOLOME	LAT	LEAVING AIR TEMPERATURE	SP	STATIC PRESSURE
DB	DRY BULB	LWT	LEAVING WATER TEMPERATURE	SPEC SS	SPECIFICATION OR SPECIFIED STAINLESS STEEL
DIA	DIAMETER	MA	MIXED AIR	STD	STANDARD
DN	DOWN	MAX	MAXIMUM	315	317 (1457 (145
DWG	DRAWING	MBH	THOUSAND BTU PER HOUR	T	THERMOSTAT
DX	DIRECT EXPANSION (REFRIGERATION)	MC	MECHANICAL CONTRACTOR	TC	TEMPERATURE CONTROLS
<u></u>	EVALUATE ALD	MCA	MINIMUM CIRCUIT CAPACITY	TEMP	TEMPERATURE
EA	EXHAUST AIR	MECH	MECHANICAL	TOS	TOP OF STEEL
EAT EC	ENTERING AIR TEMPERATURE ELECTRICAL CONTRACTOR	MFR	MANUFACTURER	TYP	TYPICAL
ELEV	ELEVATION	MIN MOCP	MINIMUM MAXIMUM OVERCURRENT PROTECTION	UNO	UNLESS NOTED OTHERWISE
ERA	ECONOMIZER RELIEF AIR	MOCE	MAXIMOM OVERCORRENT FROTECTION	UNO	ONLESS NOTED OTTENWISE
ESP	EXTERNAL STATIC PRESSURE	NC	NORMALLY CLOSED	VAV	VARIABLE AIR VOLUME
EWT	ENTERING WATER TEMPERATURE	NG	NATURAL GAS	VD	VOLUME DAMPER
EXH	EXHAUST	NIC	NOT IN CONTRACT	VFD	VARIABLE FREQUENCY DRIVE
_	EAUDENWEIT	NO	NORMALLY OPEN		
F	FAHRENHEIT FLEXIBLE CONNECTION	NTS	NOT TO SCALE	WB	WET BULB
FC FD	FLEXIBLE CONNECTION	000	ODDOCED DIADE DALIBED	W/	WITH
Fυ	FIRE DAMPER	OBD	OPPOSED BLADE DAMPER	WG	WATER GAUGE

DRAWING LIST

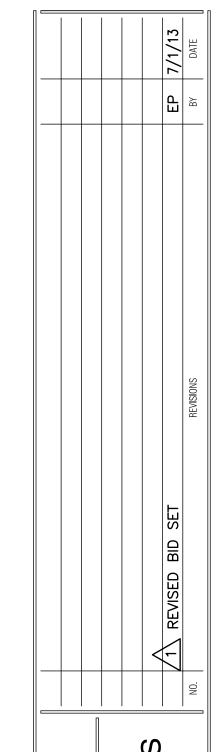
M-1 MECHANICAL LEGEND, NOTES & ABBREVIATIONS M-2 HVAC PLAN & EQUIPMENT SCHEDULES

M-3 HVAC PLANS & SECTION - 1 M-3.1 HVAC PLANS & SECTION - 2

NOTE: ABBREVIATIONS AND SYMBOLS ARE ARCSINE ENGINEERING STANDARDIZED SYMBOL LEGENDS. AS SUCH, ALL SYMBOLS SHOWN MAY NOT APPEAR ON OR WITHIN THIS SET OF CONTRACT DOCUMENTS.







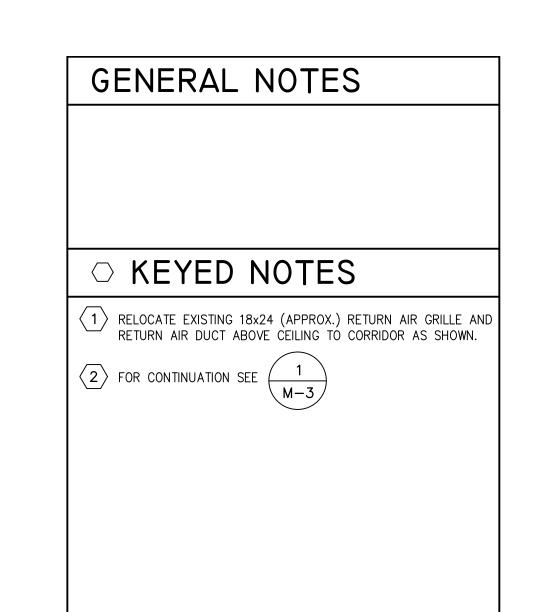
BAY Ŏ CIT



PROJECT NO: d DRAWN: JJ 1325-M-1.dwg CHECKED: D. WEHAGE

DATE: 7-2-2013

LEGEND, NOTES & ABBREVIATIONS



FA	N SCHE	DULE	-							
TAG	SERVICE	TYPE	TYPE CFM ESP ELECTRICAL			MANUFACTURER	MODEL	NOTES		
					VOLTS	PHASE	WATTS			
EF-1	WOMEN'S RR	CEILING	72	0.875"	115	1	80	GREENHECK	SP-B110	1-5
EF-2	MEN'S RR	CEILING	72	0.875"	115	1	80	GREENHECK	SP-B110	1-5

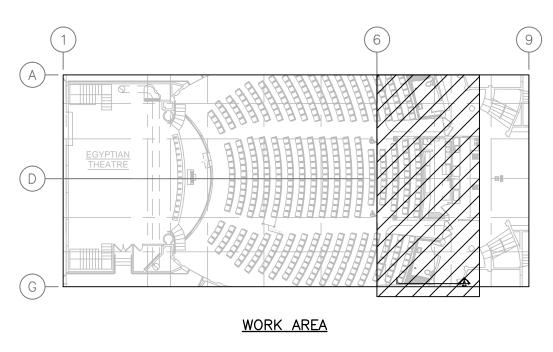
PROVIDE WITH UNIT MOUNTED SOLID STATE SPEED CONTROL FOR AIR BALANCING.	
CONTROL ON-OFF OPERATION WITH LIGHT SWITCH	

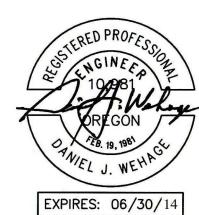
3. PROVIDE WITH ROOF CAP - SEE ROOF HOOD SCHEDULE

4. PROVIDE WITH ALUMINUM BACKDRAFT DAMPER

5. GALVANIZED METAL DUCT FROM FAN UP TO ROOF CAP. INSULATE DUCT WITH 1" FIBERGLASS WRAP.

R	OOF H	100 100	D SCHED	ULE						
	AIR		MAX PRESSURE	THROAT	HOOD			MÖDEL		
TAG	DIRECTION	CFM	DROP, "W.G.	DIMENSIONS	DIMENSIONS	HEIGHT	MANUFACTURER	NUMBER	WEIGHT	NOTES
RH-1	EXHAUST	144	0.05	6"x9"	18 3/4"x14 1/4"	6 1/2"	GREENHECK	RJ-6x9	10	1
RH-2	EXHAUST	144	0.05	6"x9"	18 3/4"x14 1/4"	6 1/2"	GREENHECK	RJ-6x9	10	1
NOTE:										
 ANC 	HOR HOOD TO	0 12" HIGH	ROOF CURB.							





& EQUIPMENT

COOS

CITY

PROJECT NO:

DRAWN: JJ 1325-M-2.dwg

HVAC PLAN

SCHEDULES

M-2

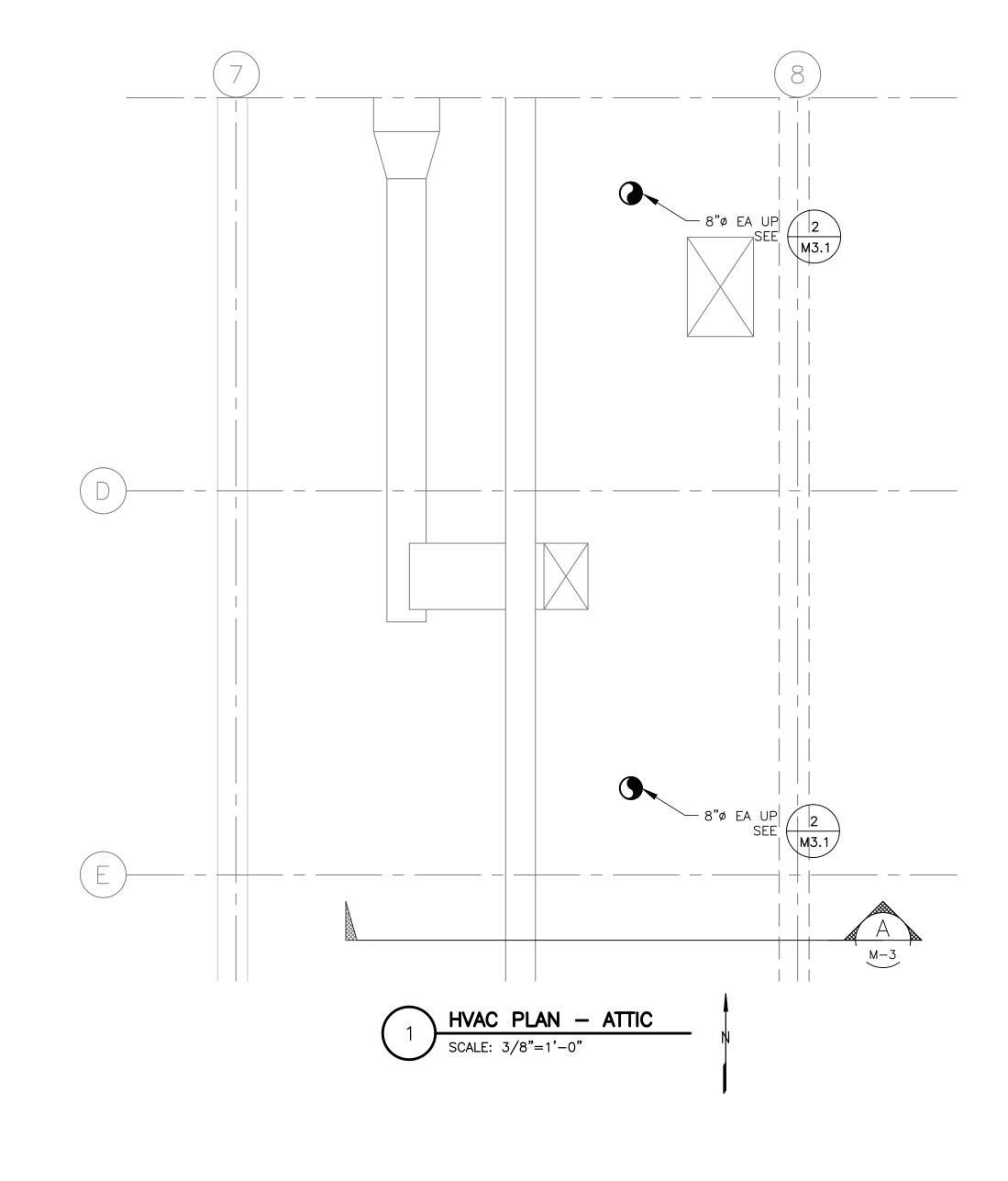
CHECKED: D. WEHAGE

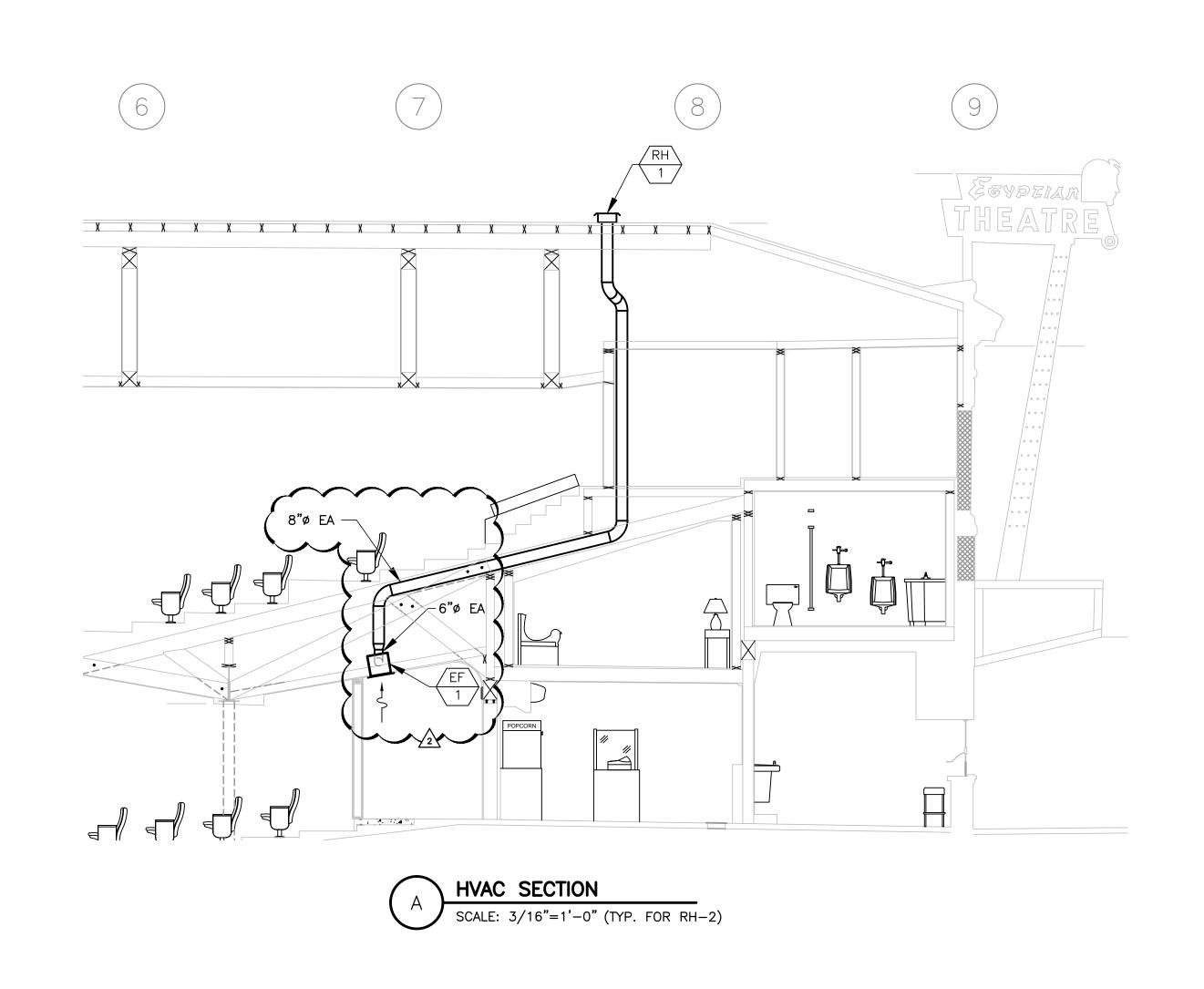
DATE: 7-2-2013

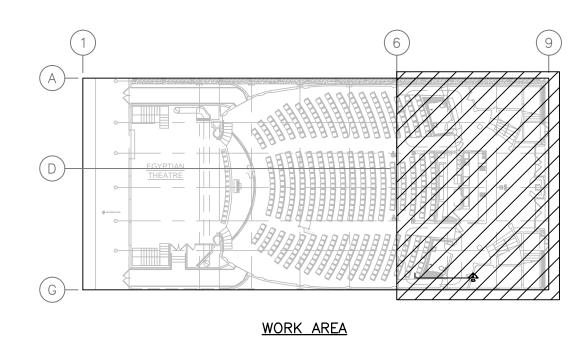
NOTES: 1. SEE LEGEND AND GENERAL NOTES ON SHEET M-1.

BAR EQUALS ONE INCH WHEN DRAWING IS PLOTTED FULL SIZE.
IF NOT, SCALE ACCORDINGLY ArcSine engineering

A full-spectrum engineering company 950 Executive Way | Redding, CA 96002 | (530)222-7204 1236 Disk Drive | Medford, OR 97501 | (541)842-4188 563 North Main | Ashland, OR 97520 | (541)482-7204









CITY

PROJECT NO:

DRAWN: JJ 1325-M-2.dwg

HVAC PLANS & SECTION - 1

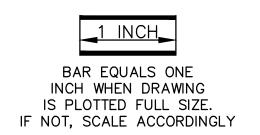
M-3

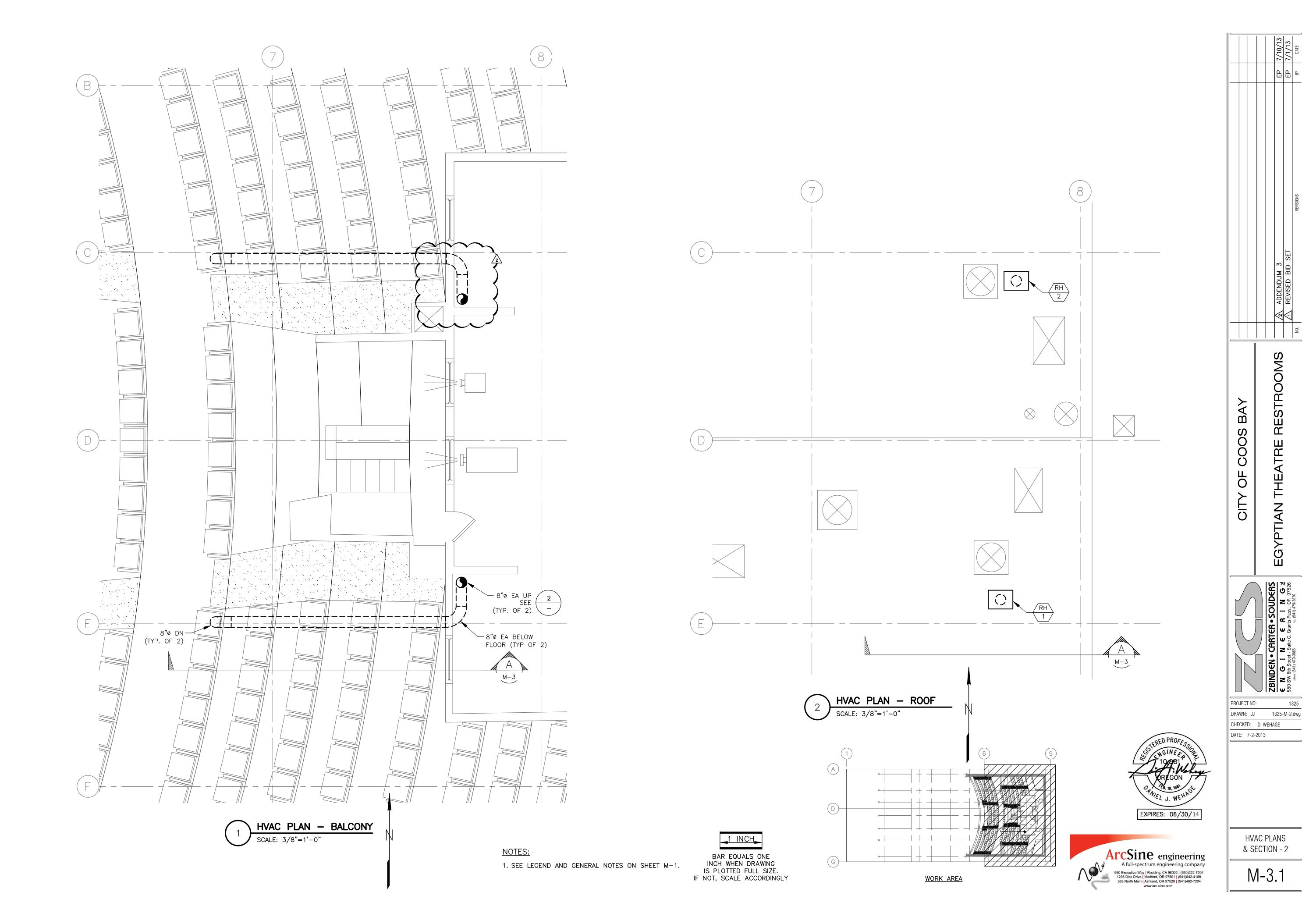
CHECKED: D. WEHAGE

DATE: 7-2-2013

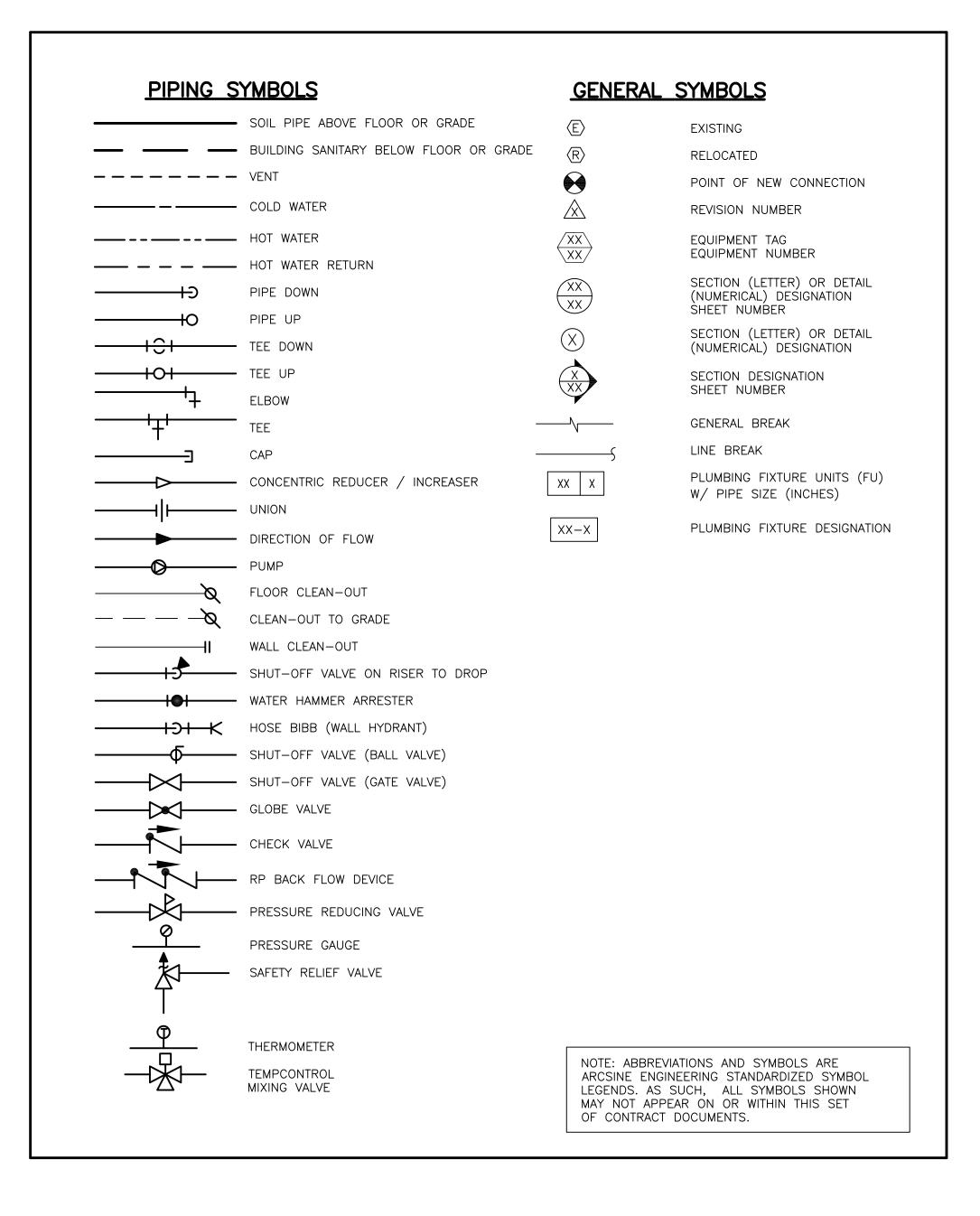


NOTES: 1. SEE LEGEND AND GENERAL NOTES ON SHEET M-1.





M:\Projects\1325 Egyptian Theatre\1325-HVAC.dwg, 7/11/2013 11:39:36 AM, jjones



PLUMBING FIXTURE SCHEDULE

DESCRIPTION

MINIMUM CONNECTION SIZE

GENERAL NOTES

- THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH THE ITEMS SHOWN ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN BOTH.
- 12. PREPARE 6 COPIES OF SUBMITTALS IN AN INDEXED. LABELED FOLDER CONTAINING FULL PERFORMANCE, MATERIAL AND INSTALLATION INFORMATION ABOUT ALL EQUIPMENT. PIPING. COMPONENTS AND ACCESSORIES TO BE USED. ARCSINE ENGINEERS WILL CHECK SUBMITTALS AT MOST TWICE. TIME SPENT ON SUBSEQUENT SUBMITTALS WILL BE BILLED TO THE CONTRACTOR BY THE ENGINEER AT ITS CURRENT HOURLY RATES.
- 13. THE STRUCTURE SHOWN ON ALL DETAILS MAY OR MAY NOT PERTAIN TO A PORTION OR ANY PORTION OF THE BUILDING. COORDINATE MOUNTING REQUIREMENTS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 14. ANY PART OF THIS INSTALLATION THAT FAILS, IS UNFIT, OR BECOMES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 15. IF CONTRACTOR ENCOUNTERS MATERIAL WHICH MAY CONTAIN ASBESTOS. IMMEDIATELY STOP WORK IN THIS AREA AND NOTIFY THE OWNER.
- 16. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES AND ACCESSORIES REQUIRED FOR A COMPLETE, WORKABLE INSTALLATION.
- 17. EXISTING INTERIOR PIPING AND EQUIPMENT HAS BEEN LOCATED IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL VERIFY LOCATIONS, POINTS OF CONNECTION, PIPE SIZES AND PIPE ROUTING THROUGH EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- 18. THE CONTRACTOR SHALL PERFORM THE WORK IN A MANNER THAT WILL CAUSE A MINIMUM DISRUPTION TO BUILDING TENANT USE AND SHALL COORDINATE THE WORK WITH THE BUILDING OWNER'S REPRESENTATIVE.
- 19. THE CONTRACTOR IS RESPONSIBLE FOR PLUMBING EQUIPMENT CHECK-IN, SAFEKEEPING, AND DAMAGE.
- 20. ALL OPENINGS FOR PIPING THROUGH FIRE-RATED ENCLOSURES SHALL BE CAULKED AS REQUIRED BY CODE TO MAINTAIN FIRE RATING.
- 21. PIPE INSULATION (ABOVE GRADE):
- 22. HOT WATER: PROVIDE A MINIMUM OF 1" THICK INSULATION (CONDUCTIVITY NOT EXCEEDING 0.27 BTU/IN/HR-FT2-°F) ON ALL SERVICE HOT WATER AND HOT WATER RECIRCULATION PIPING.
- 23. COLD WATER: PROVIDE 1/2" THICK INSULATION ON PIPE INSTALLED ABOVE GRADE WITHIN THE BUILDING FOR CONDENSATION CONTROL.
- 24. LAVATORY AND SINK FAUCETS SHALL HAVE A FLOW RATE OF 0.5 GPM.

- 25. ANY SHUT DOWNS REQUIRED TO CONNECT TO ALL ACTIVE PIPING ARE TO BE COORDINATED WITH OWNER.
- 26. ALL VALVES CONCEALED IN CEILING OR WALLS SHALL BE PROVIDED WITH

- ACCESS PANELS. LOCATE ON "AS BUILT" DRAWINGS.
- 27. ALL UNDERGROUND SOIL AND WASTE PIPING TO A POINT 5'-0" OUT FROM BUILDING SHALL BE RUN AT A MINIMUM SLOPE OF 1/4" PER FT.
- 28. BELOW GRADE CW PIPING SHALL BE TYPE K COPPER OR PEX TUBING (TYPE "A"). ABOVE GRADE PIPING SHALL BE TYPE L COPPER OR PEX TUBING (TYPE "A"). SANITARY DRAIN AND VENT PIPING SHALL BE ABS-DWV FOR BELOW AND ABOVE GRADE PIPING.
- 29. LOCATE ALL PLUMBING VENTS AT LEAST 3 FEET ABOVE OR 10 FEET AWAY FROM ALL OUTSIDE AIR INTAKES INTO THE BUILDING.
- 30. SEE "PLUMBING FIXTURE SCHEDULE" FOR FIXTURE MAKE AND TYPE, AND SIZE OF INDIVIDUAL WASTE, VENT, AND DOMESTIC WATER PIPING TO FIXTURES.
- 31. ALL PLUMBING EQUIPMENT SHALL BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY.
- 32. EQUIPMENT AND INSTALLATION SHALL MEET NATIONAL SANITATION FOUNDATION (NSF) STANDARDS, OR EQUIVALENT.
- 33. PROVIDE PROPER PROVISIONS FOR EXPANSION OR MOVEMENT OF ALL PIPING.
- 34. ALL PIPING SHALL BE SECURED BY DOUBLE NUTTING AT THE HANGER ROD ATTACHMENT TO THE STRUCTURE AND AT THE PIPE HANGER.
- 35. TWO OPERATING AND MAINTENANCE MANUALS SHALL BE PROVIDED IN HARD BACK LOOSE LEAF BINDERS. MANUALS SHALL CONTAIN PRODUCT CUT SHEETS AND OPERATING AND MAINTENANCE INSTRUCTIONS ON ALL EQUIPMENT. ACCESSORIES, FIXTURES, VALVES, ETC., PROVIDED FOR THE PROJECT
- 36. UPON COMPLETION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH. MAKE ALL REQUIRED PATCHING AND REPAIRS OF OTHER TRADES' WORK DAMAGED BY THIS CONTRACTOR, AND LEAVE THE PREMISES IN A CLEAN ORDERLY CONDITION.
- 37. THE CONTRACTOR SHALL OPERATE THE SYSTEM AND DEMONSTRATE ALL ASPECTS TO THE ENGINEER AND/OR OWNER, TO PROVE ITS OPERATION.
- 38. THE CONTRACTOR SHALL GUARANTEE THE PLUMBING SYSTEM FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 39. THE CONTRACTOR SHALL, DURING CONSTRUCTION, MAINTAIN A SET OF AS-BUILT REDLINED RECORD DRAWINGS AT THE PROJECT SITE. ALL CHANGES IN LAYOUT. ROUTING. EQUIPMENT, COMPONENTS, AND ACCESSORIES SHALL BE RECORDED. THE CONTRACTOR IS RESPONSIBLE FOR CONVERTING THE CONSTRUCTION REDLINE DRAWINGS INTO "AS BUILT" DRAWINGS USING AUTOCAD BACKGROUNDS PROVIDED BY THE ENGINEER. IF THE CONTRACTOR DOES NOT HAVE AUTOCAD DRAFTING CAPABILITIES, THE CONTRACTOR SHALL HIRE THE ENGINEER TO PRODUCE THE "AS BUILT" DRAWINGS FROM HIS FIELD REDLINES. COMPLETED AUTOCAD "AS BUILTS" SHALL BE GIVEN TO THE ARCHITECT/ENGINEER AFTER THE FINAL INSPECTION.

			<u>P</u>	LUMBING	S ABBREVIATIONS				
AD AFF	ACCESS DOOR ABOVE FINISH FLOOR	DN DW	DOWN DISHWASHER	HW HWR	HOT WATER (POTABLE) HOT WATER RETURN	ОС	ON CENTER	SF/SQFT SH	SQUARE FEET SHOWER
ARCH	ARCHITECT OR ARCHITECTURAL	DWG	DRAWING			OA/OSA	OUTSIDE AIR	SIM	SIMILAR
BLDG	BUILDING	ELEV	ELEVATION	INT	INITIAL WORK TO BE DONE	OMSC OPSC	OREGON MECHANICAL SPECIALTY CODE OREGON PLUMBING SPECIALTY CODE	SPEC SRV	SPECIFICATION OR SPECIFIED SAFETY RELIEF VALVE
BFF	BELOW FINISH FLOOR	ET	EXPANSION TANK	L	LAVATORY	OSSC	OREGON STRUCTURAL SPECIALTY CODE	SS	STAINLESS STEEL
BM BOP	BEAM BOTTOM OF PIPE	EWT EWF	ENTERING WATER TEMPERATURE EYE WASH FOUNTAIN	LB(S)	POUND, POUNDS	PRV	PRESSURE RELIEF VALVE	STD	STANDARD
BOS	BOTTOM OF STEEL	EWH	ELECTRIC WATER HEATER	мвн	THOUSAND BTU PER HOUR	PT	PRESSURE TANK	TOS	TOP OF STEEL
BTU	BRITISH THERMAL UNIT	FC	FLEXIBLE CONNECTION	MC	MECHANICAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH	TYP	TYPICAL
CA	COMPRESSED AIR	FLR	FLOOR	MCA MECH	MINIMUM CIRCUIT CAPACITY MECHANICAL	PT PVC	PRESSURE / TEMPERATURE PLUG POLYVINYL CHLORIDE	U	URINAL
CLG CO	CEILING CLEAN OUT	FU FUT	FIXTURE UNITS FUTURE WORK TO BE DONE	MFGR	MANUFACTURER			UNO	UNLESS NOTED OTHERWISE
CTG	CLEAN OUT TO GRADE			MIN MOCP	MINIMUM MAXIMUM OVERCURRENT PROTECTION	RD RDO	RAIN DRAIN RAIN DRAIN OVERFLOW	V	VENT
CONSTR	CONSTRUCTION	GC GPM	GENERAL CONTRACTOR GALLONS PER MINUTE			RECT	RECTANGULAR		
CW	COLD WATER (POTABLE)	GEIVI	GALLONS FER MINOTE	NC NG	NORMALLY CLOSED NATURAL GAS	REQ'D RPM	REQUIRED REVOLUTIONS PER MINUTE	W/ WC	WITH WATER CLOSET
DCW	DOMESTIC CLOTHES WASHER	HB	HOSE BIBB	NIC	NOT IN CONTRACT			WCO	WALL CLEAN OUT
DF DIA	DRINKING FOUNTAIN DIAMETER	HP HR	MOTOR HORSEPOWER HOUR	NO NTS	NORMALLY OPEN NOT TO SCALE	SAN	SANITARY DRAIN LINE	WH WHA	WATER HEATER WATER HAMMER ARRESTER
				.,,,				*** ***	William State of the State of t

WASTE | VENT CW HW L-1 LAVATORY (WALL HUNG) 1/2" 1/2" AMERICAN STANDARD ROXALYN LAVATORY MODEL 0195.073, W/ CONCEALED ARMS LAVATORY SUPPORT, J.R. SMITH 0700(-E). CHICAGO FAUCETS 857-E2805-665PSHCP METERING FAUCET. PROVIDE INSULATED PIPE COVERINGS. L-2 LAVATORY (WALL HUNG) 1/2" 1/2" AMERICAN STANDARD ROXALYN LAVATORY MODEL 0195.073, W/ CONCEALED ARMS LAVATORY SUPPORT, J.R. SMITH 0700(-E). CHICAGO FAUCETS 857-E2805-665PSHCP METERING FAUCET. PROVIDE INSULATED PIPE COVERINGS. WC−1 | WATER CLOSET 1/2 AMERICAN STANDARD CADET 2377.100 FLOOR MOUNTED ELONGATED BOWL W/ PRESSURE ASSIST TYPE TANK TOILET. OPEN SEAT, WHITE. LEFT (FLOOR MOUNT) HAND TRIP LEVER WC−2 | WATER CLOSET 1/2" AMERICAN STANDARD CADET 2377.100 FLOOR MOUNTED ELONGATED BOWL W/ PRESSURE ASSIST TYPE TANK TOILET. OPEN SEAT, WHITE. RIGHT (FLOOR MOUNT) HAND TRIP LEVER 1/4" WH−1 | WATER HEATER 1/4" CHRONOMITE POINT OF USE WATER HEATER MODEL SR-30L, 3600W, 110/120V, 30A BREAKER SIZE, WT. 5 LB., 1/4" FEMALE NPT PIPE CONNECTIONS, 49°F WATER TEMPERATURE RISE AT 0.5 GPM FLOW RATE. MOUNT BELOW L-1. WH−2 | WATER HEATER 1/4" 1/4" CHRONOMITE POINT OF USE WATER HEATER MODEL SR-30L, 3600W, 110/120V, 30A BREAKER SIZE, WT. 5 LB., 1/4" FEMALE NPT PIPE

CONNECTIONS, 49°F WATER TEMPERATURE RISE AT 0.5 GPM FLOW RATE. MOUNT BELOW L-2.

REMARKS

PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT

A COMPLETE, OPERATIONAL PLUMBING SYSTEM FOR THE ENTIRE PROJECT AS

SHOWN ON THESE DRAWINGS, INCLUDING ALL NECESSARY FEES AND PERMITS.

CODES, RULES, REGULATIONS AND REQUIREMENTS THAT THE PROJECT OWNER

OBTAIN ALL INSPECTION APPROVALS ON PLUMBING WORK FROM REGULATING

COORDINATE THE INSTALLATION OF ALL PLUMBING PIPING AND EQUIPMENT

WITH MECHANICAL PIPING, EQUIPMENT, DUCTWORK, AND ALL OTHER TRADES

INCLUDING BUT NOT LIMITED TO THE MECHANICAL CONTRACTOR, ELECTRICAL

CONTRACTOR AND GENERAL CONTRACTOR. WHERE CONFLICTS MAY OCCUR,

5. THE DRAWINGS SHOW THE GENERAL DESIGN, ARRANGEMENTS AND THE EXTENT

OF THE SYSTEM. IT SHALL BE THE WORK OF THE CONTRACTOR TO MAKE

SUCH SLIGHT ALTERATIONS AS MAY BE NECESSARY TO MAKE THE SYSTEM

QUANTITIES, OR MATERIAL REQUIRE PRIOR APPROVAL BY THE CONSULTING

CONSTRUCTION DOCUMENTS. INFORMATION REGARDING THE COMPLETE WORK IS

DISPERSED THROUGHOUT THE DOCUMENT SET AND CANNOT BE ACCURATELY

8. THE WORKING DRAWINGS ARE DIAGRAMMATIC. BECAUSE OF THE SMALL SCALE

NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL

LOCATIONS FOR PLUMBING EQUIPMENT AND PIPING SHALL BE CHECKED AND

OF THE DRAWINGS, THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW

COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND

9. EXACT ROUTING OF WASTE, GAS, AND WATER SERVICE IS DEPENDENT ON

10. DETAILS: THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND USE WHERE

PLUMBING SYSTEM WITHOUT USING THE INCLUDED DETAILS IS THE

11. THE DRAWINGS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND

HEALTH DEPARTMENT AND CITY REQUIREMENTS.

RESPONSIBILITY OF THE CONTRACTOR.

LOCAL SITE CONDITIONS AND MODIFICATIONS IN EQUIPMENT CONNECTIONS.

EXACT LOCATION OF EQUIPMENT MAY VARY DEPENDING ON LOCAL CODE,

APPROPRIATE ALL OF THE PLUMBING DETAILS SHOWN ON THE DRAWINGS.

DETAILS MAY OR MAY NOT BE CALLED OUT ON THE DRAWINGS WITH SYMBOLS

OR KEYED NOTES. ANY CHANGES RESULTING FROM FAILURE TO INSTALL THE

COMPLETE AND OPERATIONAL IN ACCORDANCE WITH THE DESIGN INTENT.

MAJOR DEVIATIONS SUCH AS CHANGES IN COMPONENT SIZES, WEIGHTS,

CONTRACTORS AND SUB-CONTRACTORS SHALL CAREFULLY REVIEW THE

DETERMINED WITHOUT REFERENCE TO THE COMPLETE DOCUMENT SET.

7. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL PLUMBING

2. THE ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE

MOST RECENTLY ADOPTED PLUMBING CODE, MECHANICAL CODE, BUILDING

CODE AND ALL OTHER APPLICABLE CITY, COUNTY, AND STATE CODES AND

REGULATIONS IN EFFECT AT THE DATE OF THE BID. CONFORM TO ANY

4. PRIOR TO FABRICATION AND INSTALLATION THE CONTRACTOR SHALL

THEY SHALL BE RESOLVED PRIOR TO INSTALLATION.

AGENCIES WHERE REQUIRED.

ENGINEER.

FIXTURES.

ELECTRICAL DRAWINGS.

DRAWING LIST

- P-1 LEGEND, NOTES, ABBREVIATIONS & FIXTURE SCHEDULE
- P-2 UNDER FLOOR/FIRST FLOOR PLUMBING PLAN AND DETAILS
- P-3 PLUMBING DETAILS

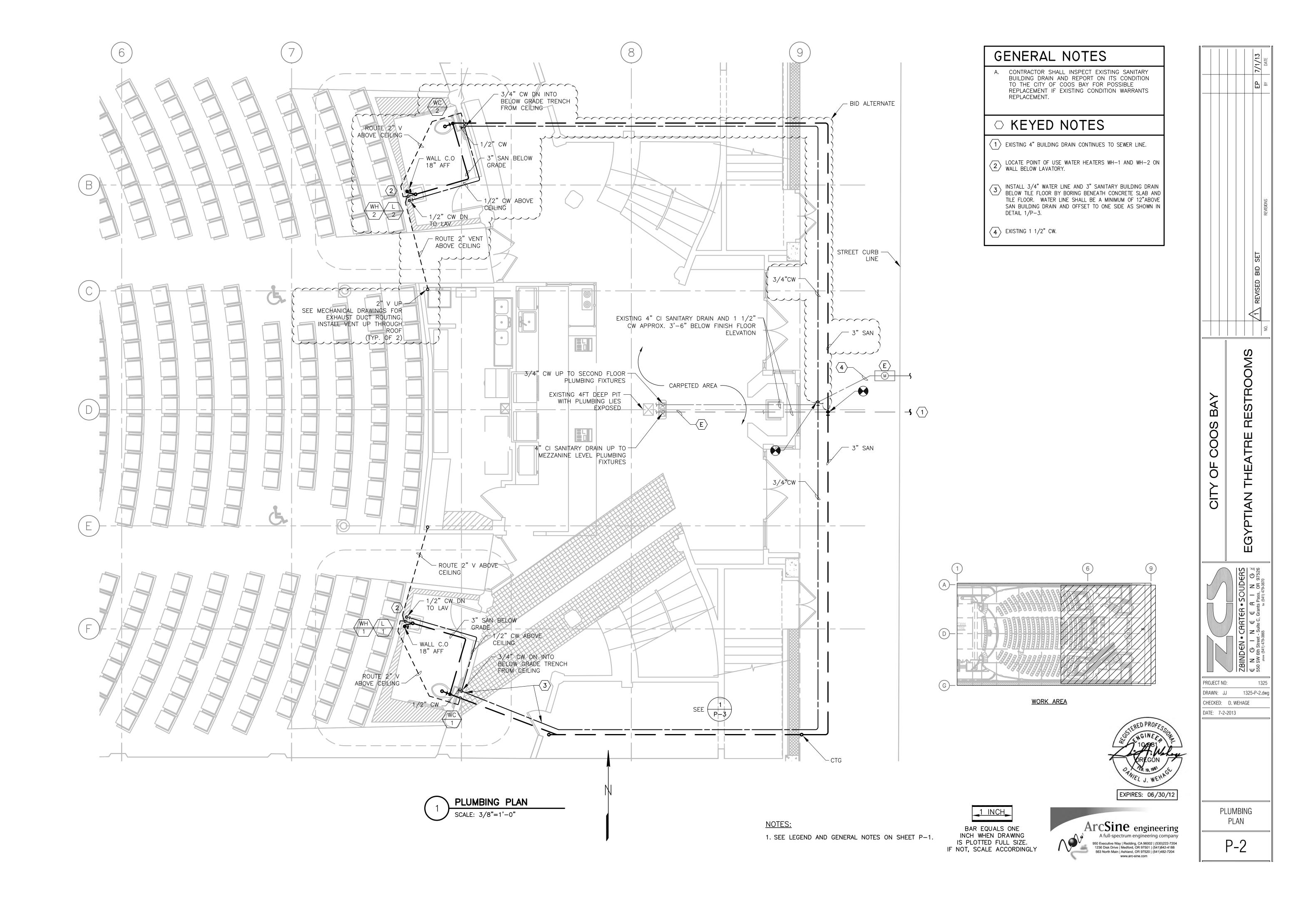


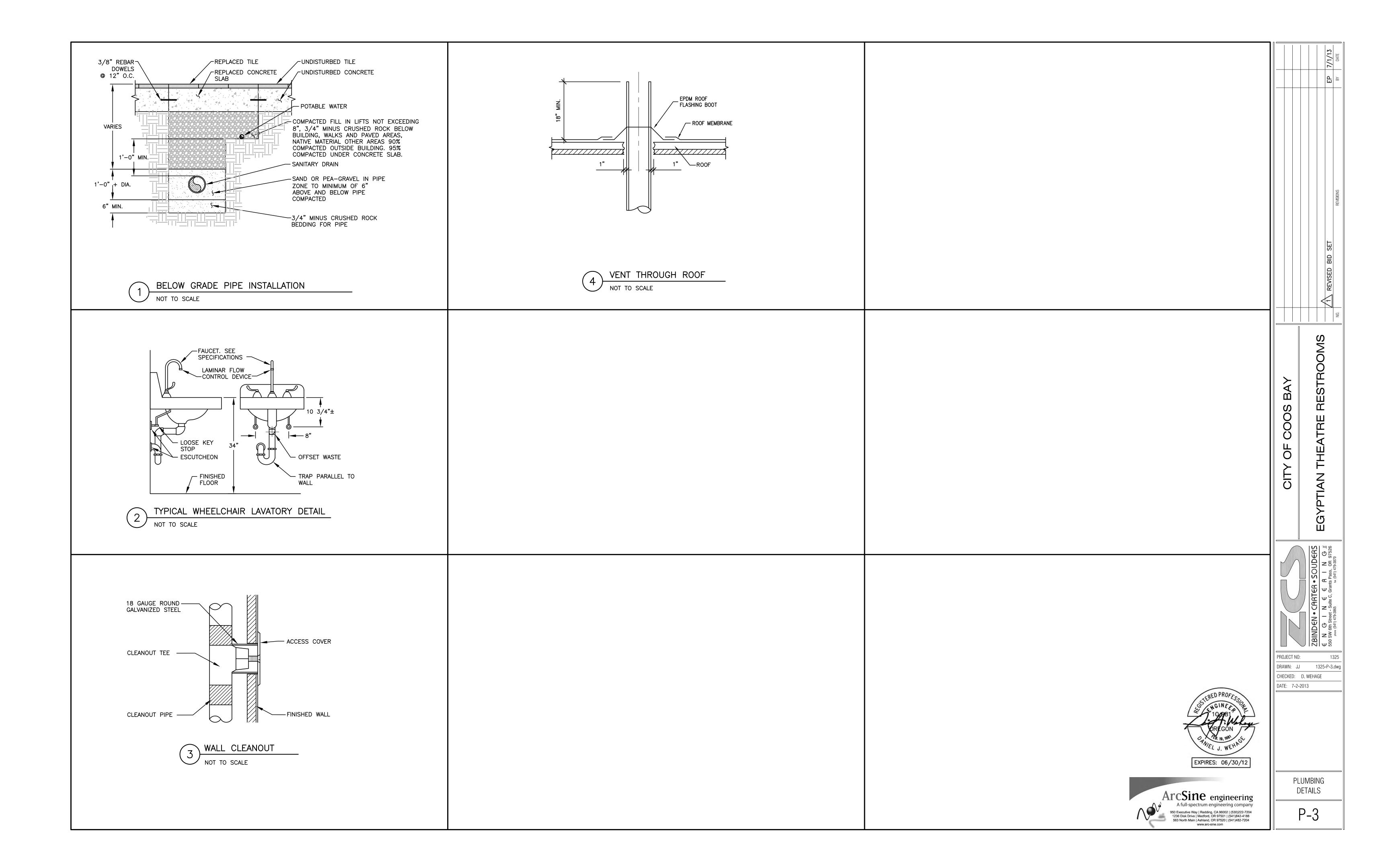


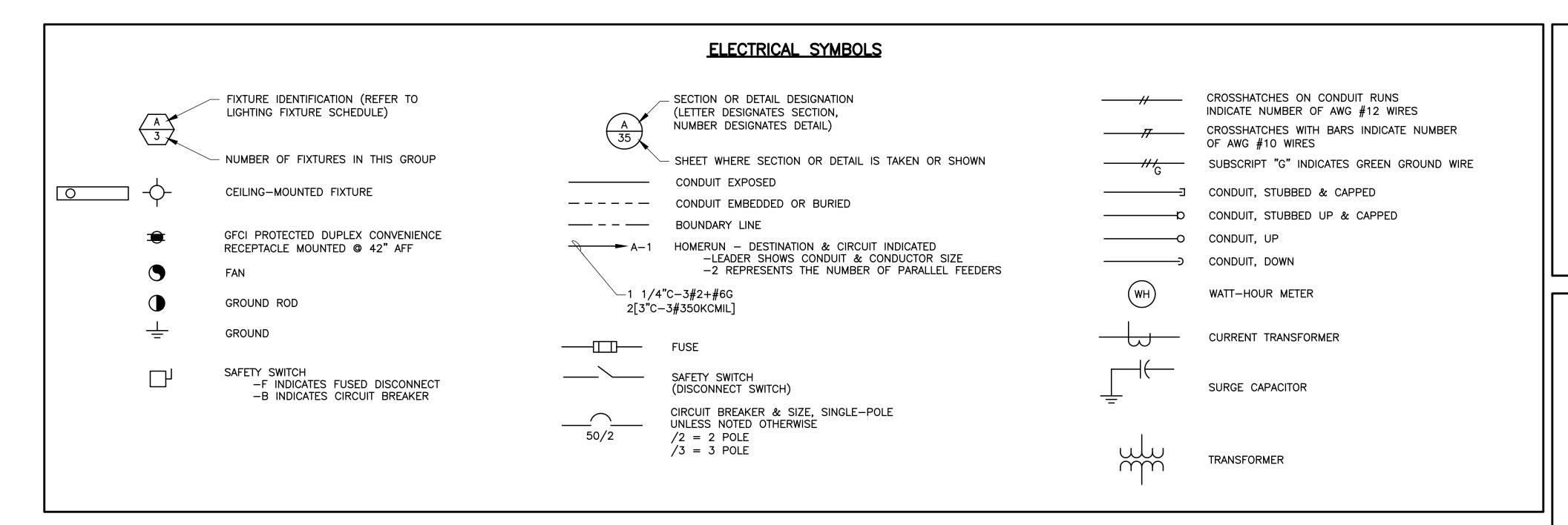


PROJECT NO: 1325-P-1.dwg DRAWN: JJ CHECKED: D. WEHAGE DATE: 7-2-2013

LEGEND, NOTES, **ABBREVIATIONS &** FIXTURE SCHEDULE







ARC FAULT CIRCUIT INTERRUPTER

AMPS INTERRUPTING CAPACITY

ELECTRICAL METALLIC TUBING

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMERICAN WIRE GAUGE

ALUMINUM

CONDUIT

COPPER

GROUND

EXST,(E) EXISTING

AFCI

AFG

AIC

AWG

ABBREVIATIONS

HORSEPOWER

HERTZ

KILOWATT

MAXIMUM

MINIMUM

NEUTRAL

NOT APPLICABLE

GRS

IMC

KW

MAX

MIN

KCMIL

GROUND FAULT CIRCUIT INTERRUPTER (PERSONNEL)

GROUND FAULT PROTECTION (EQUIPMENT)

GALVANIZED RIGID STEEL CONDUIT

INTERMEDIATE METAL CONDUIT

THOUSAND CIRCULAR MILS

SCOPE OF WORK

- THIS SET OF DRAWINGS COVERS POWER DISTRIBUTION AND LIGHTING FOR THE CONSTRUCTION OF TWO ADA COMPLIANT RESTROOMS ON THE GROUND FLOOR, AND SIZING A NEW SERVICE ENTRANCE, FOR EXISTING EGYPTIAN THEATER LOCATED IN COOS BAY, OREGON. THE PROJECT INCLUDES THE FOLLOWING:
- AT THE TIME OF DESIGN COMPLETION, UTILITY COORDINATION REMAINS, AND THIS COORDINATION SHALL BE PERFORMED BY THE CONTRACTOR. ALL SERVICE RELATED ITEMS SHOWN ARE MINIMUM COORDINATE WITH UTILITY FOR ADDITIONAL REQUIREMENTS.
- NEW SERVICE ENTRANCE.
- NEW DISTRIBUTION PANEL AND FEEDER (PANEL SB REPLACEMENT).
- BID ALTERNATE FOR NEW DISTRIBUTION PANEL AND FEEDER (PANEL P).
- POWER DISTRIBUTION AND LIGHTING FOR THE RESTROOMS. DEMOLITION OF EXISTING SERVICE ENTRANCE.
- TRANSFORMER VAULT.
- SERVICE LATERAL CONDUIT. UTILITY PRIMARY CONDUIT.

NOT TO SCALE

PANEL, PANELBOARD

POLYVINYL CHLORIDE CONDUIT

OVERLOAD

RECEPTACLE

SWITCHGEAR

WEATHERPROOF

TRANSFORMER

PULLBOX

SPARE

TYPICAL

NTS

OL

PB

PNL

PVC

SP

SWGR

TYP

WP

XFMR

RECEPT

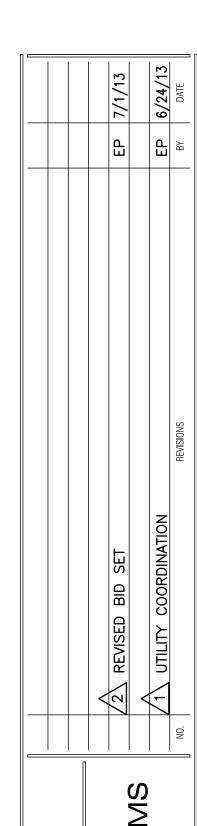
GENERAL NOTES:

- 1. SEE ELECTRICAL SPECIFICATIONS.
- 2. UNLESS NOTED OTHERWISE, MOUNT RECEPTACLES AT 18 INCHES AND SWITCHES AT 48 INCHES ABOVE THE FLOOR. CONTRACTOR SHALL COORDINATE ALL RECEPTACLE LOCATIONS WITH ASSOCIATED CABINETRY AND WORK PLANE HEIGHTS. RECEPTACLES SHALL BE SPECIFICATION GRADE.
- 3. RECEPTACLES AND JUNCTION BOXES FOR DEDICATED USES ARE SHOWN IN APPROXIMATE LOCATIONS. COORDINATE WITH EQUIPMENT SUPPLIERS AND ARCHITECT FOR EXACT LOCATIONS.
- WIRING FOR ELECTRICAL DEVICES IS NOT SHOWN ON THESE PLANS. INSTEAD, ELECTRICAL DEVICES IN EACH ROOM ARE TAGGED WITH THE SOURCE PANELBOARD AND CIRCUIT NUMBER THAT FEEDS THE DEVICE IN THAT ROOM.
- ELECTRICAL BOXES LOCATED IN 1HR FIRE RATED WALLS SHALL NOT EXCEED 100 SQUARE INCHES FOR ANY 100 SQUARE FEET OF WALL AREA.
- 6. THE CONTRACTOR SHALL VERIFY ALL WORK CONDITIONS PRIOR TO COMMENCING WORK, INCLUDING, BUT NOT LIMITED TO: DIMENSIONS, EQUIPMENT, STRUCTURAL ELEMENTS & MATERIALS INDICATED AS EXISTING. CONTRACTOR SHALL ALSO COORDINATE AMONG DISCIPLINES AND EQUIPMENT SUPPLIERS FOR INSTALLATION OF ALL MATERIALS & EQUIPMENT, ETC.
- ITEMS SHOWN BOLD ON THESE DRAWINGS REPRESENT WORK THAT IS PART OF THIS CONTRACT. BOLD TEXT ASSOCIATED WITH EQUIPMENT SHOWN AS THIN DESCRIBES WORK TO BE PERFORMED ON THE EQUIPMENT AS PART OF THE CONTRACT.

DRAWING LIST

- E-1 LEGEND AND GENERAL NOTES
- E-2 SPECIFICATIONS
- E-3 ONE-LINE DIAGRAM
- BUILDING POWER PLANS
- DETAILS 1 E-5
- E-6 DETAILS 2





CITY

Ŏ

PROJECT NO: DRAWN: NP 1325-E-1.dwg CHECKED: D. McHANEY

DATE: 7-2-2013

EXPIRATION DATE: 12/31/14 LEGEND AND GENERAL NOTES

E-1

ELECTRICAL SPECIFICATIONS

PART 1 – GENERAL

RELATED WORK

- A. All of the work executed under this section shall meet the requirements of related disciplines as if fully stated herein.
- B. See all contract documents for other requirements including as applicable General Conditions, Bidding and Construction Schedule, Safety Requirements, Mobilization Requirements, and other Contract
- C. All Contract Documents, including but not limited to Plans, Specifications, Instructions to Bidders, and other published documents are a part of the Contract.

FIRE PROTECTION

A. See Structural documents for fire-stopping requirements, and comply with State Fire Marshal requirements for approved and listed fire-stopping systems. See Structural Drawings for fire-stop finish details. At a minimum, penetration of fire rated walls, floor-ceilings, and roof-ceilings shall meet UBC Sections 709 and 710.

CODES, PERMITS, AND REGULATIONS

- A. Perform all work, furnish and install all materials and equipment in full accordance with the latest applicable rules, regulations, requirements, and specifications of the following:
 - 1. Local laws and ordinances
 - 2. State and Federal laws
 - 3. National Electrical Code (NEC)
 - 4. Oregon Electrical Specialty Code (OESC)
 - 5. Underwriters Laboratories (UL)
 - 6. Local Utility Company
- B. Wherever the requirements of the specifications or drawings are in conflict with the items above, the more stringent requirement shall prevail.
- C. Obtain all permits and pay all fees required by any governmental agency having jurisdiction of the work. Arrange all inspections required by these agencies. On completion of the work, furnish satisfactory evidence to the Owner that the work is acceptable to the regulatory authorities having jurisdiction.

SUBMITTALS

- A. Before any material is fabricated or shipped, furnish to the Engineer full details, shop drawings, dimensions, catalog cuts, schematic (elementary) diagrams, wiring diagrams, and other descriptive matter as required to fully describe the products specified under this Section.
- B. For service entrance equipment, meter base, and other related materials, obtain written approval of submittals from the serving utility before submitting to the Engineer. Submittals shall include manufacturer UL listed series rated information sheets. All equipment shall be separately labeled per requirements of the NEC.

WARRANTY

A. The work and materials covered in this Section shall be guaranteed for a period of 1 year from the date of acceptance thereof against defective materials, design, and workmanship.

PART 2 – PRODUCTS

GENERAL

- A. Unless otherwise indicated, provide all first-quality, new materials and equipment, free from any defects, in first class condition, with ratings as shown on these drawings, and suitable for the space provided
- B. Like items of equipment provided hereunder shall be the end products of one manufacturer in order to achieve standardization for appearance, operation, maintenance, spare parts, and manufacturer's service.
- C. Furnish labor, materials, and equipment as necessary to deliver complete and operable systems.

MATERIALS

- A. Provide a meter base(s), main service panel(s), main breaker(s) with copper bussing, and other materials and work that will provide service to the facility. Short circuit rating of equipment shown on the drawings may be met using UL listed series-rated components. Materials and work shall be UL listed and shall meet the requirements of EUSERC and the utility company.
- B. Lighting and power distribution panel boards: Provide circuit breaker panel boards meeting standards established by UL, NEMA PB1, and the NEC. Where used as service entrance equipment, provide panels having UL approval for that use. Provide panels rated for the available short circuit current of the electric system. Panelboards shall include bolt on breakers.
- C. Conductor sizes indicated are based on copper conductors. Do not provide conductors smaller than those indicated. Conductors shall be stranded THWN (wet) or THHN (dry), except solid conductors may be used for 15-, 20-, and 30-amp branch circuits.

PART 3 – EXECUTION

GENERAL

- A. Work shall be performed in a workman like manner by craftsmen skilled in the particular trade. Work shall be performed in accordance with the drawings, specifications, manufacturer's recommendations, and the best practice of the trade. Completed work shall present a neat and finished appearance.
- B. Field verify dimensions, equipment, structural elements, and materials indicated as existing.

INSTALLATION

- A. Locations of electrical equipment, and other electrical system components shown on drawings are approximate unless dimensioned. Check for and resolve conflicts with openings, structural members, and equipment having fixed locations.
- B. Do not cut or notch any structural member or building surface without specific approval of the Engineer. Carefully carry out any cutting, channeling, chasing, or drilling of floors, walls, partitions, ceilings, paving, or other surfaces required for the installation, support, or anchorage of conduit, raceways, or other electrical materials and equipment. Following such work, restore surfaces neatly to new condition using skilled craftsmen of the trades involved, at no additional cost to the Owner. Any penetrations to fire rated materials shall be restored to equal rating as required by the state Fire Marshall.
- C. Follow manufacturer's installation instructions explicitly, unless otherwise indicated.
- D. Thoroughly document all electric circuits. Provide a typewritten circuit directory on all branch panels.
- E. Provide engraved nameplates for all pieces of equipment. Plates shall be screw on 3 ply, black face, white 1/4-inch-high Gothic lettering. When equipment or instrument is not suitable for a screw on nameplate, use a 16 gauge, 304 stainless steel tag, 1/4" high lettering affixed to equipment with stainless steel wire.
- F. Coordinate equipment seismic bracing requirements with the local authorities and manufacturer of
- G. Completed work shall present a neat and finished appearance. Furnish and install incidental items not specifically shown or required by good practice to provide a complete electrical system.

RACEWAYS

- A. Install conductors in raceways.
- B. Minimum size conduit shall be 1/2 inch, except 3/4 inch for underground and embedded conduit. Use the following types of conduit for the locations listed unless indicated otherwise:
 - 1. Use galvanized rigid steel conduit (GRS) outdoors and in wet locations.
 - 2. Use electrical metallic tubing (EMT) in concealed locations and exposed, interior, dry locations, and where dropping from above the electrical equipment more than 6 feet above the floor.
 - 3. Use rigid polyvinyl chloride (PVC) conduit for buried and embedded locations, except use galvanized rigid steel (GRS) at least 5 feet on both sides of penetrations through footings and outside walls, under equipment mounting pads, where embedded in exterior light pole foundations, and where conduit changes from underground to exposed or from embedded to exposed.
 - 4. Use liquid-tight flexible conduit for final connection to mechanical equipment.
- C. All empty conduits shall be provided with a flat pull tape (mule tape or equal).
- D. For steel conduit installed underground, wrap the entire length with tape using 1/2-inch overlap. Use PVC-based pressure-sensitive all-weather tape, 20-mil minimum thickness, as recommended by the manufacturer for corrosion protection of underground conduits. Tape shall be Scotchwrap 51 or equal.

GROUNDING

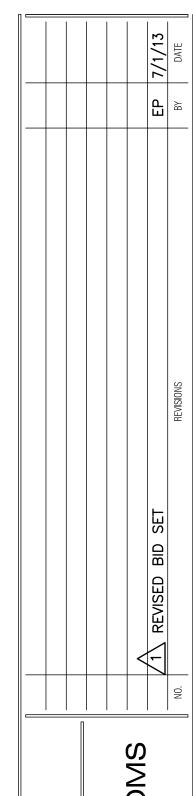
- A. Complete electrical system shall be grounded in accordance with the presently adopted edition of the NEC Article #250, and as shown on the drawings.
- 3. Ground the neutral of all wiring systems in strict accordance with the NEC, State, and other applicable laws and regulations.
- C. Ground all exposed non-current-carrying metallic parts of electrical equipment and raceway systems.
- D. Ground metal sheathing and any exposed metal vertical structural elements of buildings. Bond any metal equipment platforms, which support electrical equipment to that equipment.
- E. At the request of, and in the presence of the authorized inspector, the contractor shall provide system resistance readings.

STARTUP AND TESTING

A. After the electrical system installation is completed, conduct an operation test for approval. Demonstrate to the Owner that the equipment operates in accordance with the requirements of these specifications and drawings.

PROJECT CLOSEOUT

- A. At the completion of the project, the Contractor shall:
 - 1. Submit operation and maintenance manuals, with tab dividers separating specific systems or items of equipment. Equipment warranties shall be included.
 - 2. Submit a list of recommended spare parts.
 - 3. Submit marked up "As-Built" drawings with final installed arrangements, including equipment model numbers and performance data.



GYPTIAN THEATRE RESTROC

BAY

COOS

CITY



PROJECT NO: 1325

DRAWN: NP 1325-E-3.dwg

CHECKED: D. McHANEY

DATE: 7/2/13

STERED PROFESS

LNGINEER

17,004

OREGON 18, 199 NEC 12/31/14

EXPIRATION DATE: 12/31/14

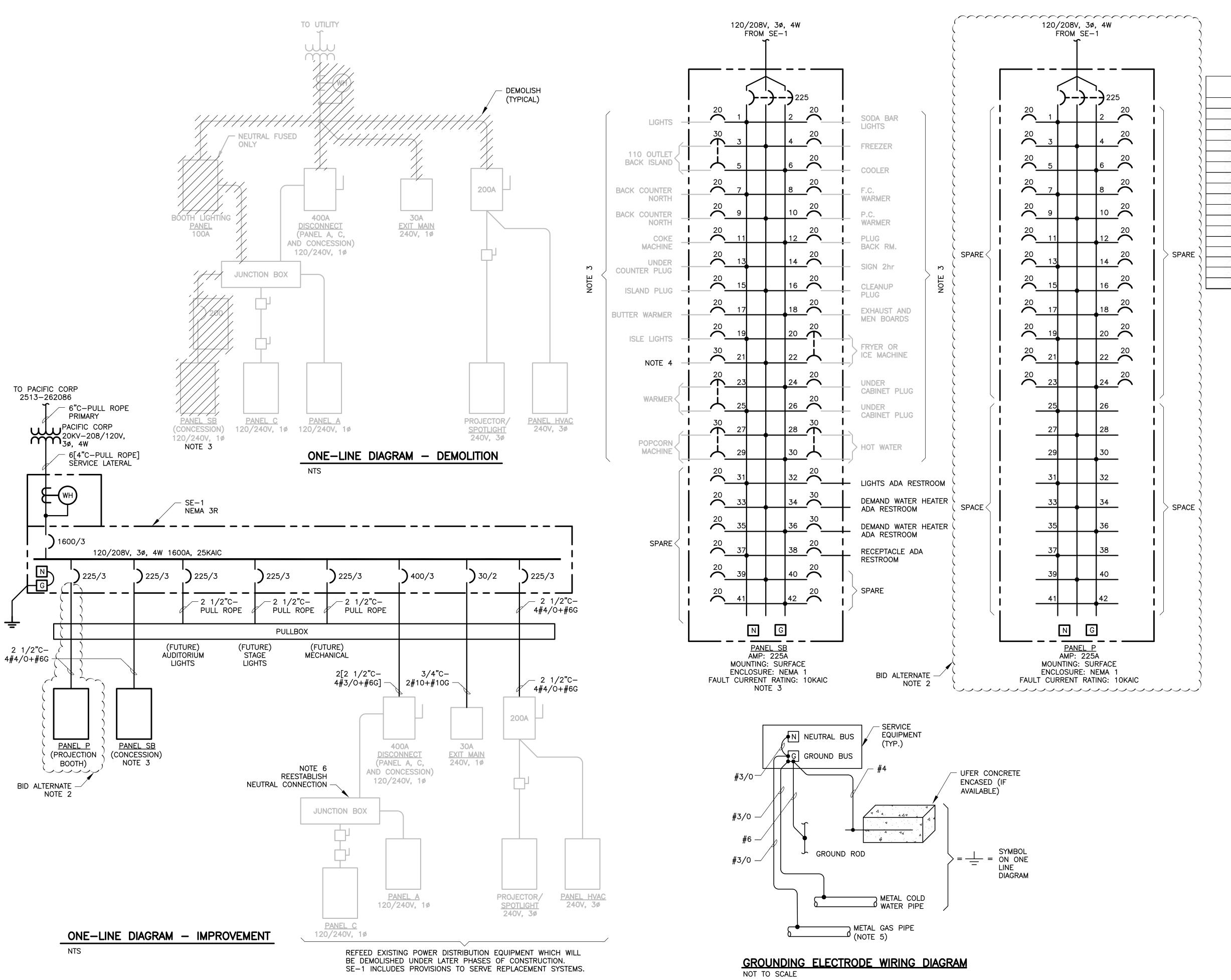
SPECIFICATIONS

ArcSine engineering
A full-spectrum engineering company

950 Executive Way | Redding, CA 96002 | (530)222-7204
1236 Disk Drive | Medford, OR 97501 | (541)842-4188

563 North Main | Ashland, OR 97520 | (541)482-7204

E-2



LOAD CUMMAD	V	PAN	NEL
LOAD SUMMAR	T	LO	ADS
LOADS (17,000 SF)			
LIGHTING (CONTINUOUS) @	2 VA / SF	С	34000 VA
RECEPTACLES,	1 VA / SF		17000 VA
MARQUEE (FUTURE)		С	21600 VA
SOUND EQUIPMENT (FUTURE)			36000 VA
THEATRICAL LIGHTING (FUTURE)			96000 VA
SNACK BAR (FUTURE)			51000 VA
PROJECTOR			12600 VA
SPOT LIGHTS (TWO)			3400 VA
TABLE REWINDER			1200 V
HVAC (FUTURE)			167000 VA
WATER HEATER			12000 VA
TOTAL CONNECTED LOAD			451800 VA
TOTAL DEMAND LOAD (CONTINUOUS	LOADS @ 125%)		465700 A
DEMAND LOAD			1294 A
SERVICE EQUIPMENT BUS RATING			1600 A

C = CONTINUOUS

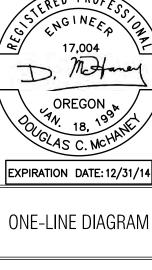
NOTES:

- 1. SEE LEGEND AND GENERAL NOTES ON SHEET E-1.
- 2. PROVIDE TWO BID ALTERNATES LISTED BELOW: A. INSTALL PANEL P CONDUIT WITH PULL ROPE FROM SE-1 TO PANEL P LOCATION. B. INSTALL PANEL P CONDUIT, FEEDER AND

PANEL P.

- 3. EXISTING PANEL SB SHALL BE DEMOLISHED. INSTALL A NEW PANEL SB PANELBOARD. FIELD IDENTIFY ALL EXISTING BRANCH CIRCUITS, INSTALL A JUNCTION BOX, INTERCEPT AND EXTEND ALL EXISTING BRANCH CIRCUITS TO PANEL SB.
- 4. FIELD IDENTIFY EXISTING BRANCH CIRCUITS, RE-FEED FROM PANEL SB AND UPDATE PANEL SCHEDULE.
- 5. METAL GAS PIPING SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM BUT IS NOT PART OF THE GROUNDING ELECTRODE SYSTEM, PER NEC 250.52 (B) AND 250.104(B).
- 6. RE-ESTABLISH ALL NEUTRAL CONNECTIONS IN THE NOTED JUNCTION BOXES.
- 7. PACIFIC CORP HAS IDENTIFIED THE FAULT CURRENT AT SE-1 AS 23,048 AMPS.





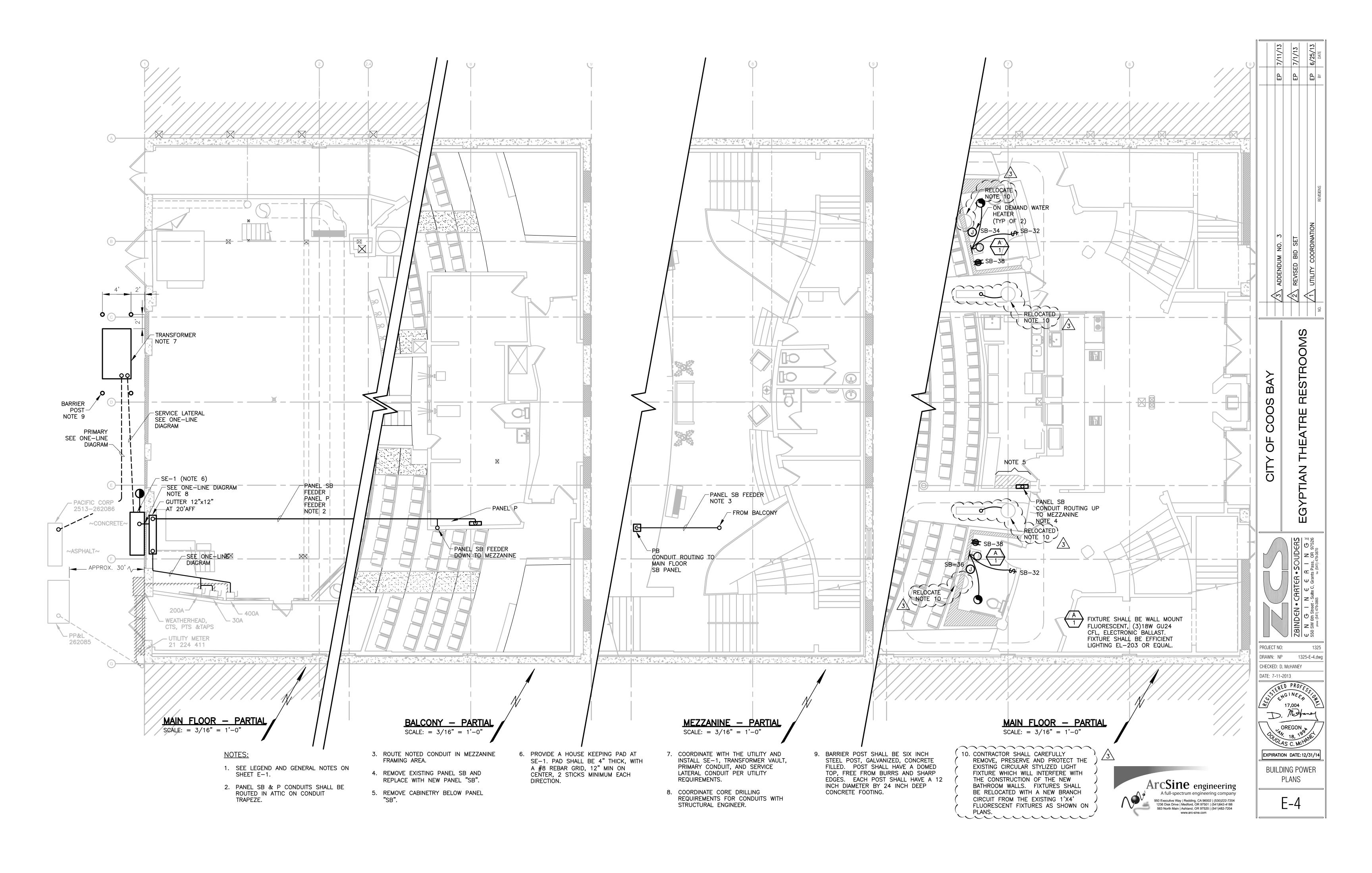
COOS CITY

ZBINDEN • (E N G | I 550 SW 6th Street -

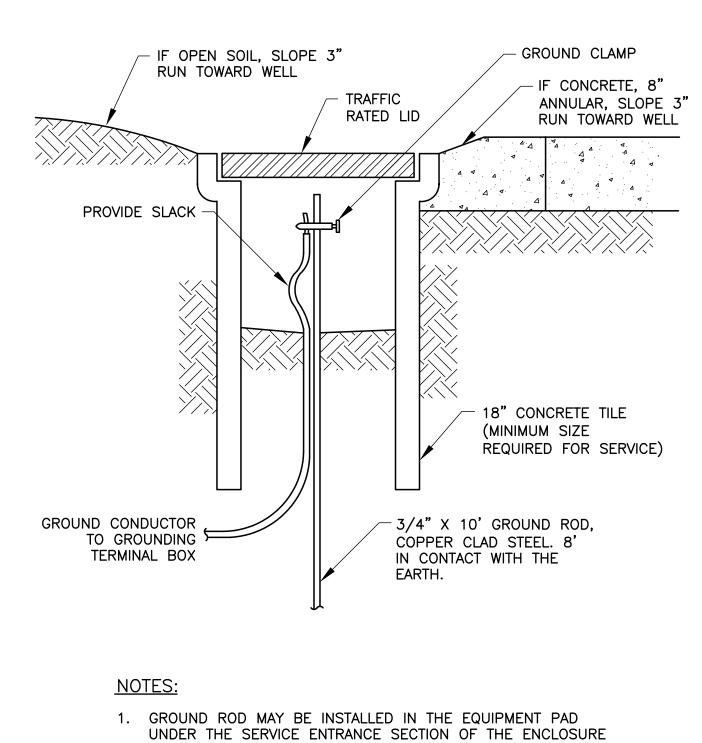
PROJECT NO: DRAWN: NP 1325-E-3.dwg CHECKED: D. McHANEY

DATE: 7-2-2013 STERED PROFESS GNGINEEP 07 D. Medaney

E-3

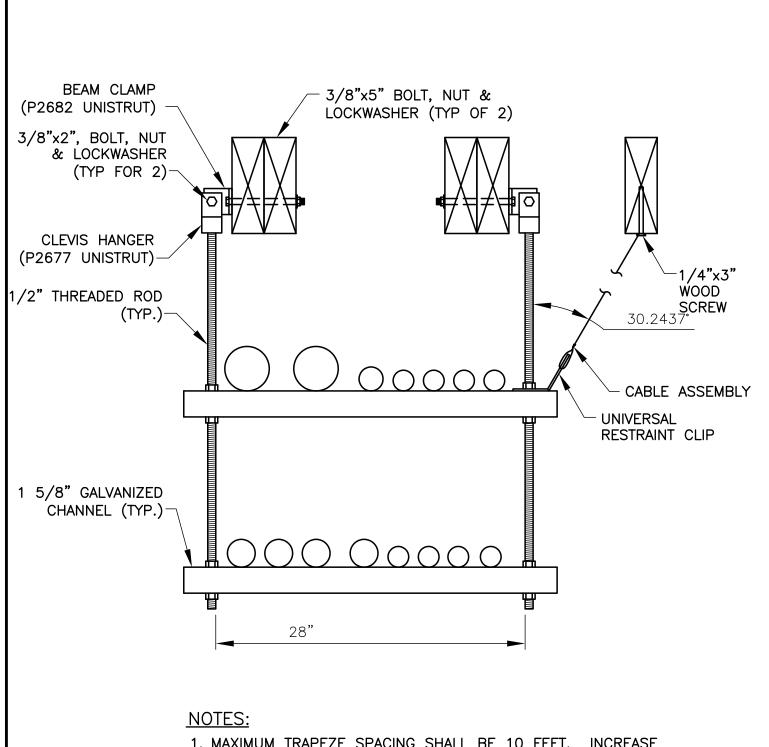


CONDUIT TRENCH THROUGH PAVED AREA NOT TO SCALE



(PROVIDE AT LEAST 3" ABOVE THE SLAB). IF SO INSTALLED, TILE, COVER & ANNULAR PAD MAY BE ELIMINATED.

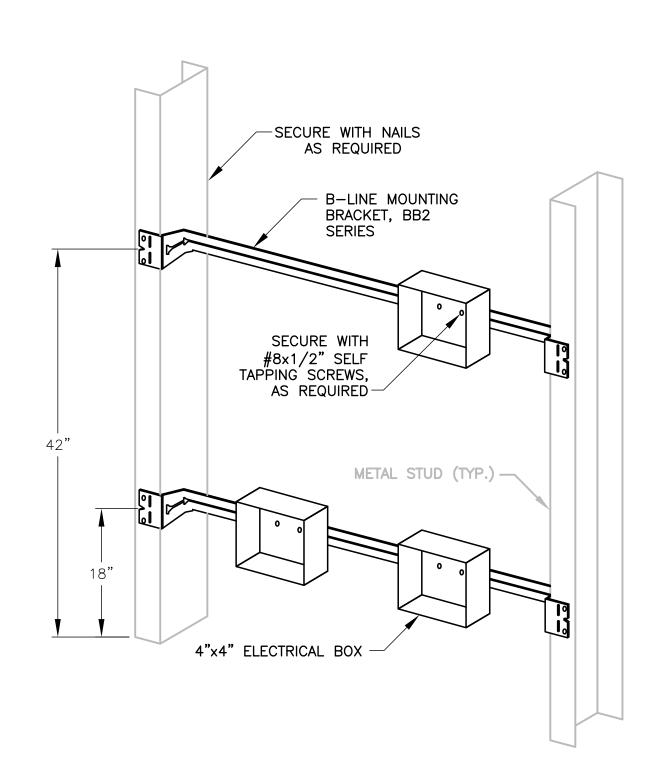
GROUND ROD NOT TO SCALE



1. MAXIMUM TRAPEZE SPACING SHALL BE 10 FEET. INCREASE SIZE AND NUMBER OF SUPPORTS AS REQUIRED TO MEET SEISMIC REQUIREMENTS. PROVIDE CONDUIT STRAPS AS REQUIRED.

2. TRUSS SYSTEM IS EXISTING.

CONDUIT TRAPEZE SUPPORT NOT TO SCALE



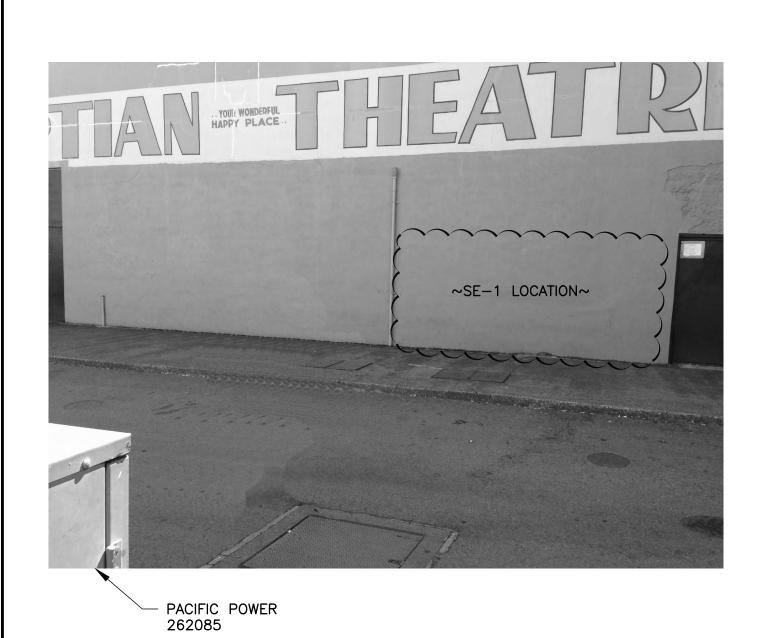
BOX MOUNTING BRACKETS - WOODEN FRAMING NOT TO SCALE



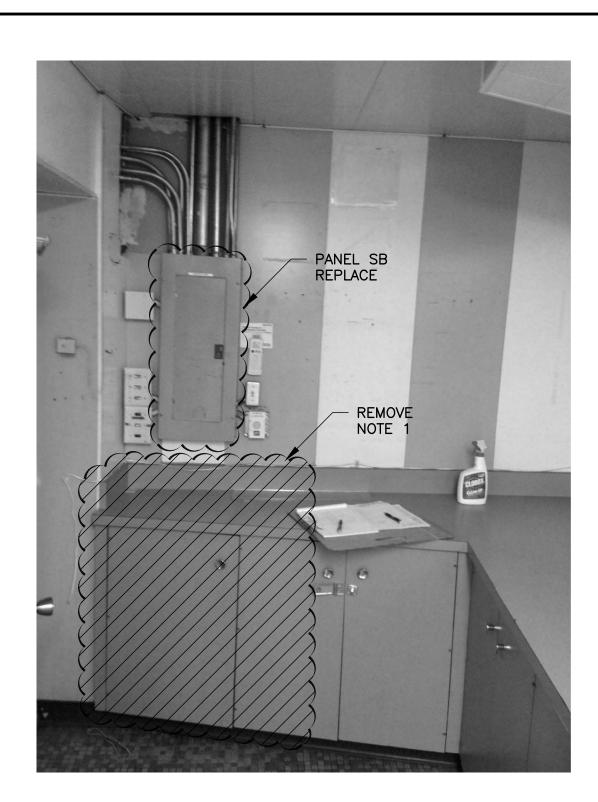
EXISTING SERVICE - DEMOLITION NOT TO SCALE



EXISTING SERVICE - DEMOLITION NOT TO SCALE



SE-1 LOCATION



PANEL SB NOT TO SCALE

NOTES: COORDINATE CABINETRY MODIFICATIONS WITH ZCS AND THE OWNER.



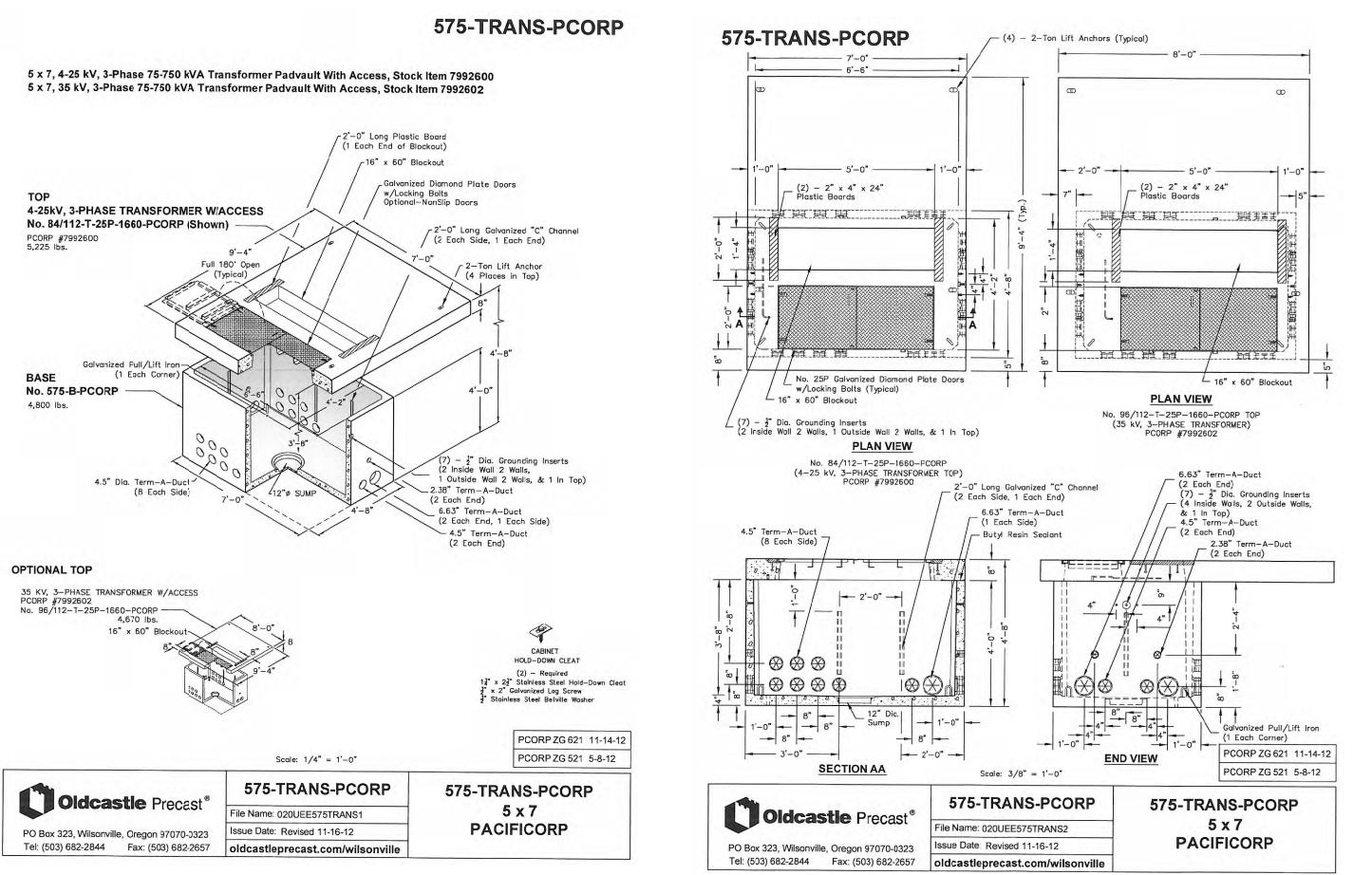
BAY COOS ОЕ

CITY

PROJECT NO: DRAWN: NP 1325-E-5.dwg CHECKED: D. McHANEY DATE: 7-2-2013

EXPIRATION DATE: 12/31/14

DETAILS - 1



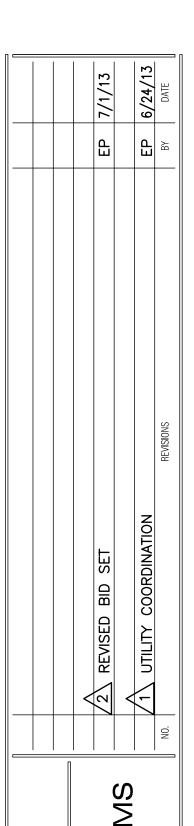
TRANSFORMER VAULT
NOT TO SCALE

NOTES:

1. SEE LEGEND AND GENERAL NOTES ON SHEET E-1.

2. COORDINATE WITH PACIFIC CORP REGARDING TOP REQUIREMENTS FOR THE VAULT WHICH SHALL BE INSTALLED FLUSH WITH THE EXISTING 11 FOOT WIDE SIDEWALK. FIELD COORDINATE VAULT PLACEMENT TO MAINTAIN FIVE FEET CLEARANCE IN FRONT OF THE TRANSFORMER.





CITY OF COOS BAY

EGYPTIAN THEATRE RESTRC



PROJECT NO: 1325

DRAWN: NP 1325-E-6.dwg

CHECKED: D. McHANEY

DATE: 7-2-2013

DATE: 7-2-2013

OREGON
OREGN
OREGON
OREGON
OREGON
OREGON
OREGON
OREGON
OREGON
OREGON
OREGN
OREGON
OREGON
OREGON
OREGN
O

DETAILS - 2

—