

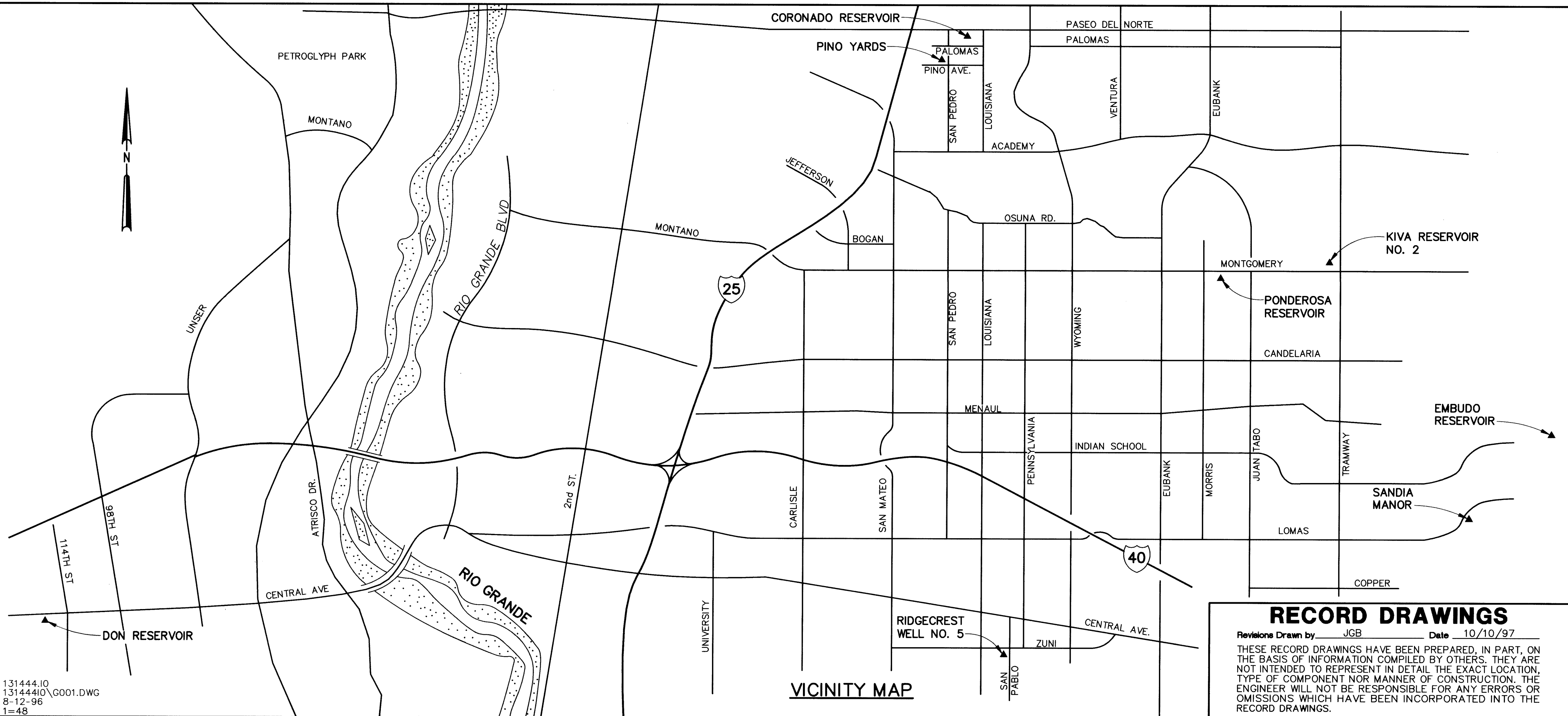
CITY OF ALBUQUERQUE
EMBUDO AND PONDEROSA RESERVOIRS
WATER SYSTEM REHABILITATION



INDEX OF DRAWINGS

SHEET	DRAWING NO.	TITLE OF SHEET	SHEET	DRAWING NO.	TITLE OF SHEET
1	G-1	TITLE SHEET	11	M-1	MECHANICAL DETAILS
2	C-1	EMBUDO RESERVOIR - SITE PLAN	12	M-2	MECHANICAL DETAILS
3	C-2	PONDEROSA RESERVOIR - SITE PLAN	13	E-1	EMBUDO RESERVOIR - ELECTRICAL SITE PLAN & DETAILS
4	C-3	CORONADO AND KIVA RESERVOIRS - SITE PLAN	14	E-2	SANDIA MANOR - ELECTRICAL PLAN
5	S-1	ROOF PLATFORM DEMOLITION/MODIFICATIONS	15	RC5-1	RIDGECREST WELL NO. 5 - DEMOLITION AND SITE PLAN
6	S-2	ROOF PLATFORM PLANS, SECTIONS/DETAILS	16	RC5-2	RIDGECREST WELL NO. 5 - STRUCTURAL PLANS AND SECTIONS
7	S-3	RESERVOIR REPAIR DETAILS	17	RC5-3	RIDGECREST WELL NO. 5 - PLUMBING AND HVAC PLAN
8	S-4	STAIR AND BULKHEAD DETAILS	18	RC5-4	RIDGECREST WELL NO. 5 - EQUIPMENT AND PIPING PLAN
9	S-5	OVERFLOW WEIR DETAILS	19	RC5-5	RIDGECREST WELL NO. 5 - ELECTRICAL PLAN
10	S-6	STRUCTURAL DETAILS	20	RC5-6	RIDGECREST WELL NO. 5 - ELECTRICAL ONE-LINE DIAGRAM
10B	S-7	CORONADO RESERVOIR REPAIRS			

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-9860-90 0197



ABBREVIATIONS

BRG	AT	MH	MANHOLE
CCP	BEARING	MIN	MINIMUM
CI	CONCRETE CYLINDER PIPE	NTS	NOT TO SCALE
C	CAST IRON PIPE	OC	ON CENTER
CONT	CENTERLINE	OD	OUTSIDE DIAMETER
CPLG	CONTINUOUS	PJF	PREMOLDED JOINT FILLER
DIA	COUPLING	PP	PLATE
DI	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
EA	EACH	REQD	REQUIRED
EF	EACH FACE	SCH.SCHED	SCHEDULE
EW	EACH WAY	SIM	SIMILAR
EXST	EXISTING	SST	STAINLESS STEEL
FLG	FLANGE	STL	STEEL
GALV	GALVANIZED	T&B	TOP AND BOTTOM
L	ANGLE	TS	TUBE SHAPE
MAX	MAXIMUM	TYP	TYPICAL
MB	MACHINE BOLT	W/	WITH

LAYOUT PLAN LEGEND

---	EXISTING STRUCTURE
---	PROPERTY LINE
---	EXISTING PIPELINE
---	FENCE LINE
---	GATE VALVE
---	BUTTERFLY VALVE
---	TREES AND SHRUBS

APPROVAL OF RECORD DRAWINGS

PROJECT ENGINEER: *William J. Stewart*
DATE: 10/10/97

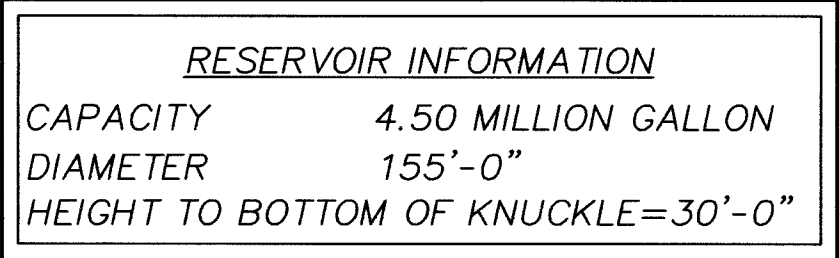
CH2M HILL
6001 Indian School Rd, NE
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

RECORD DRAWINGS

Revisions Drawn by JGB Date 10/10/97
THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

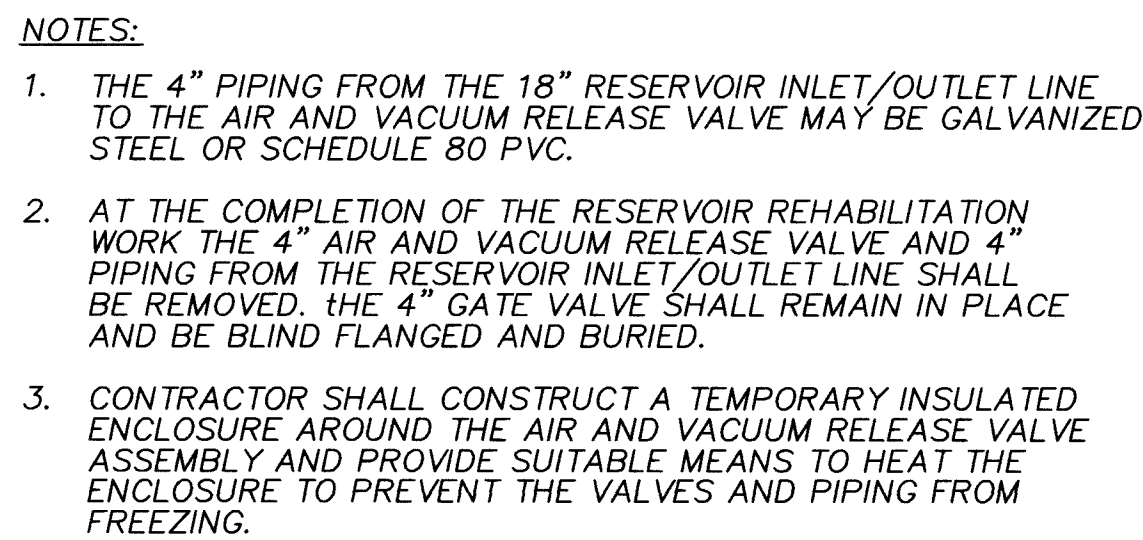
REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE	APPROVALS	ENGINEER	DATE	*****	APPROVED FOR CONSTRUCTION		
THESE DRAWINGS WERE MODIFIED USING AUTOCAD AND REPLOTED FOR RECORD PURPOSES AND THEREFORE DO NOT HAVE THE ENGINEER'S STAMP OR OTHER SIGNATURES THAT APPEAR ON THE ORIGINAL CONTRACT DRAWINGS.	DRC Chairman Transportation Water/Wastewater Hydrology Parks Const. Mngmt.						
	City Project No.	4800.90					
	Sheet	1	Of	20			
	DRAWING NO.	G-1					

SCANNED BY
BY LASON


$$1'' = 30'-0''$$

1. CONTRACTOR SHALL FIELD VERIFY VALVE ENDS AND EXISTING PIPE PRIOR TO ORDERING NEW VALVE AND SPECIALS.

1. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, PIPE SIZES AND TYPES PRIOR TO FABRICATION. SOME INTERFERENCES MAY EXIST BETWEEN NEW AND EXISTING MATERIALS. CONSULT ENGINEER FOR RESOLUTION OF CONFLICTS PRIOR TO PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL TAKE PRECAUTIONS SO AS NOT TO DAMAGE EXISTING FACILITIES, EQUIPMENT AND LANDSCAPING DURING CONSTRUCTION. ANY DAMAGE DUE TO CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE SOLE COST OF THE CONTRACTOR. NOT ALL UTILITIES ARE SHOWN.
3. SITE PLAN LAYOUT SHOWING EXISTING LOCATIONS OF FACILITIES WAS DEVELOPED FROM ORIGINAL CONSTRUCTION DRAWINGS AND IN SOME CASES MORE RECENT INFORMATION AVAILABLE AT THE TIME OF DEVELOPMENT OF THESE DRAWINGS. THIS LAYOUT IS PROVIDED FOR GENERAL INFORMATION ONLY. ACTUAL LOCATIONS OF FACILITIES MAY VARY FROM THOSE SHOWN. SEE NOTE 1.
4. REMOVE EXISTING CATWALK, MISCELLANEOUS ELECTRICAL PANELS, ELECTRICAL CONDUITS AND SUPPORTING FIXTURES. PATCH HOLES IN ROOF WITH 1/4" PLATE AND SEAL WELD. GRIND SMOOTH ANY ROUGH EDGES LEFT FROM REMOVAL OF THE ATTACHMENTS.
5. ITEMS REMOVED AS PART OF DEMOLITION WORK AND NOT SALVAGED BY THE OWNER BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
6. WHERE NEW WORK CROSSES EXISTING PIPING OR ELECTRICAL CONDUITS THE CONTRACTOR SHALL EXCAVATE BY HAND TO PREVENT DAMAGE OR DISRUPTION TO THE EXISTING FACILITIES.
7. PROVIDE WARNING TAPE FOR ALL BURIED PIPING AND CONDUIT. WARNING TAPE SHALL BE PLACED 12" BELOW FINISH GRADE.
8. CONTRACTOR SHALL INSTALL INSULATING FLANGES, COUPLINGS, OR UNIONS WHEREVER TWO DISSIMILAR METAL PIPES ARE CONNECTED.
9. CONTRACTOR SHALL EXCAVATE FOR AND EXPOSE EXIST VALVES TO BE REPLACED TO DETERMINE CONFIGURATION PRIOR TO PLACING ORDER FOR NEW VALVES.
10. ALL BURIED VALVES SHALL BE INSTALLED WITH VALVE BOXES IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
11. CONTRACTOR SHALL REMOVE ALL CATHODIC PROTECTION WIRES, ANODES AND CONDUIT. RECTIFIERS SHALL BE LEFT IN PLACE.
12. CONTRACTOR SHALL MAKE MODIFICATIONS TO THE RESERVOIR AS SHOWN AND SHALL COAT INTERIOR AND EXTERIOR SURFACES IN ACCORDANCE WITH THE SPECIFICATIONS.
13. REMOVE AND REPLACE RESERVOIR FLOOR PLATE AS SPECIFIED, SEE 3
S-3
14. REMOVE ALL SHRUBS AND GRASS FROM THE PERIMETER OF THE RESERVOIR FOR A WIDTH OF 15', UNLESS OTHERWISE SHOWN. GRADE THE AREA AROUND THE RESERVOIR FOR POSITIVE DRAINAGE AWAY FROM THE TANK UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES.
15. THE 4-INCH AIR AND VACUUM RELEASE VALVE SHALL BE INSTALLED AND OPERATIONAL PRIOR TO START OF THE WORK INSIDE THE RESERVOIR.
16. THE EXISTING PRESSURE TRANSDUCER SHALL REMAIN IN OPERATION THROUGHOUT THE RESERVOIR REHABILITATION WORK. CORE DRILL EXIST WALL AND PROVIDE TEMPORARY CONNECTION TO EXISTING PRESSURE TRANSDUCER FROM NEW TAP TO RESERVOIR INLET/OUTLET LINE, SEE DETAIL 1
17. THE EXISTING RADIO ANTENNA WILL BE REMOVED BY THE OWNER.
18. EXISTING SOLAR PANEL SUPPORT CHANNELS AND ANCHORAGE TO ROOF OF RESERVOIR SHALL REMAIN FOR ATTACHMENT OF NEW SOLAR PANEL SUPPORT, SEE DWG E-1. THE EXISTING SUPPORTS AND CHANNELS SHALL BE PAINTED AS SPECIFIED.
19. INSTALL NEW RADIO ANTENNA MAST, SEE 7. EXACT LOCATION TO BE DETERMINED BY THE OWNER. ↑
M-2



DETAIL 2
NTS

SECTION

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER:
Arthur J. Stuart
DATE: 10/10/97

Revisions Drawn by JGB Date 10/10/97

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[illegible]

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APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER: Arthur J. Stuart
DATE: 10/10/95


RECORD DRAWINGS

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VERIFY SCALES

BAR IS ONE INCH ON
ORIGINAL DRAWING

0  1"

IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.



CHEN HILL
6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

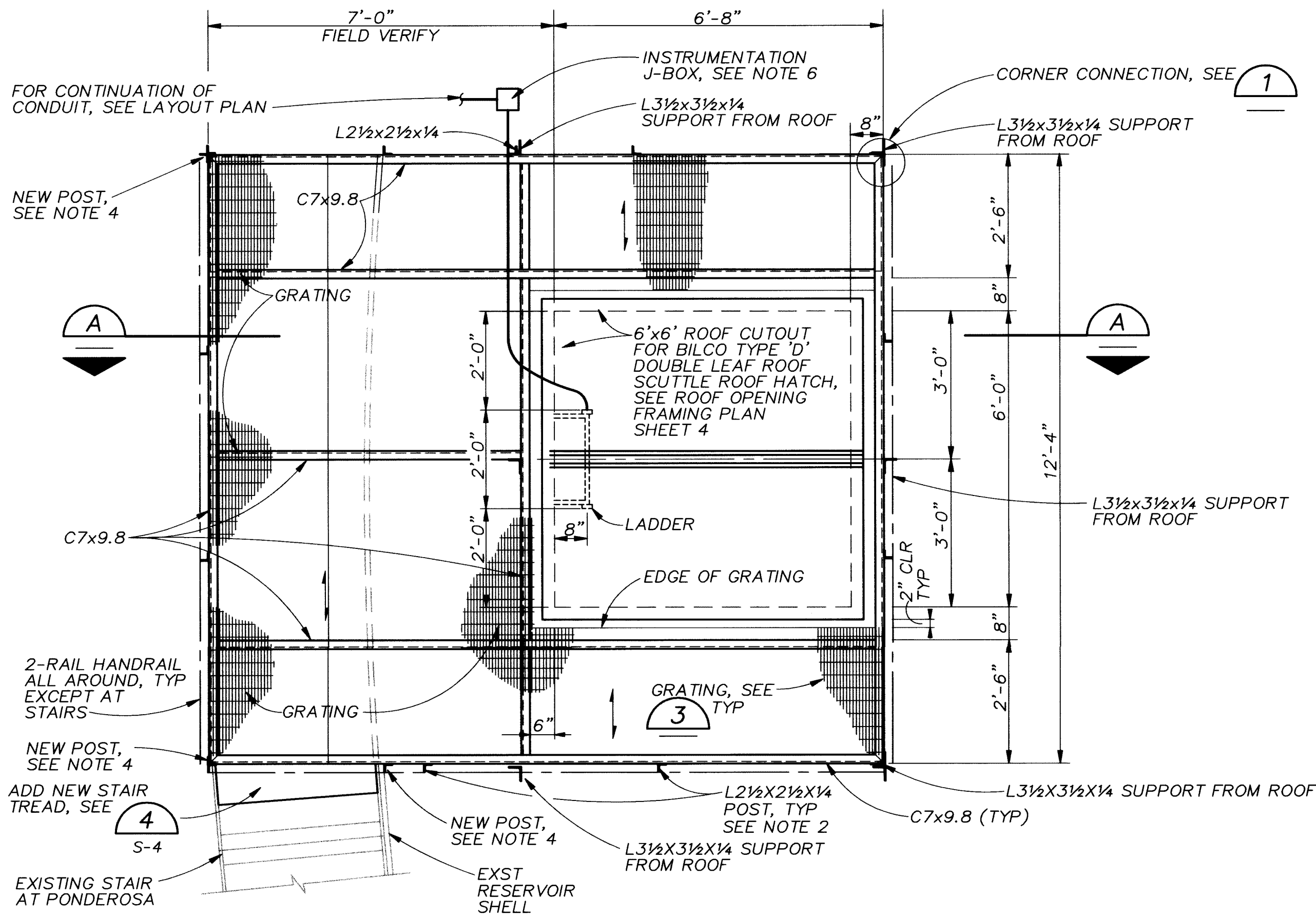
TITLE: EMBUDO AND PONDEROSA RESERVOIRS
CORONADO AND KIVA RESERVOIRS-SITE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
CITY PROJECT NO.	4800.90	Zone Map No.	D-18.5-22	SHEET 4 OF 20 DRAWING NO C-3

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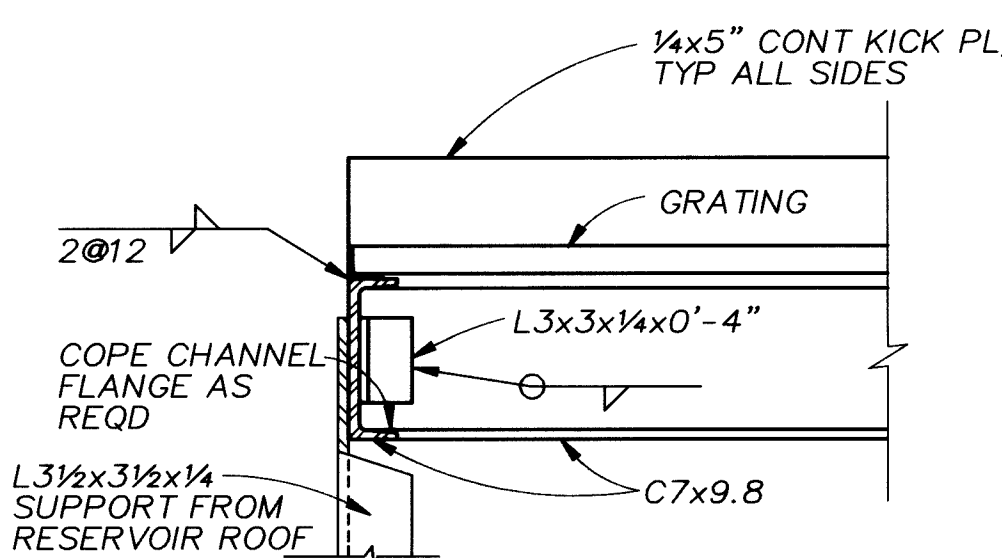
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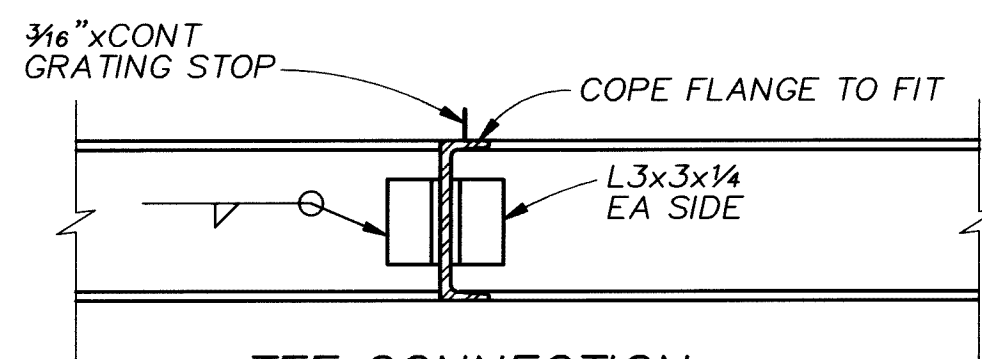


- NOTES:**
1. CONTRACTOR SHALL SET ELEVATION APPROXIMATELY 7 1/2" ABOVE NEW TOP STAIR TREAD.
 2. HANDRAIL POST SPACING SHALL NOT EXCEED 5'-0".
 3. FOR CONTINUATION OF CONDUIT AND WIRING SEE LAYOUT PLAN, DWG C-1 OR C-2 AS APPROPRIATE.
 4. CONNECT EXISTING STAIR RAILS TO NEW L2 1/2"x2 1/2"x1/4" POST.
 5. STAIR SHOWN IS FOR PONDEROSA RESERVOIR. STAIR AT EMBUDO RESERVOIR IS SIMILAR BUT, LOCATED ON OPPOSITE SIDE OF PLATFORM.
 6. LOCATION OF INSTRUMENTATION CONNECTIONS ON RESERVOIR ROOF VARIES. CONTRACTOR SHALL RELOCATE INSTRUMENT PENETRATIONS ON ROOF WHEN CONFLICTS WITH PLATFORM INSTALLATION OCCUR.

PLAN - ROOF PLATFORM
1/2"=1'-0"



**CORNER CONNECTION
TYP FOR ALL PLATFORMS**
DETAIL 1
NTS

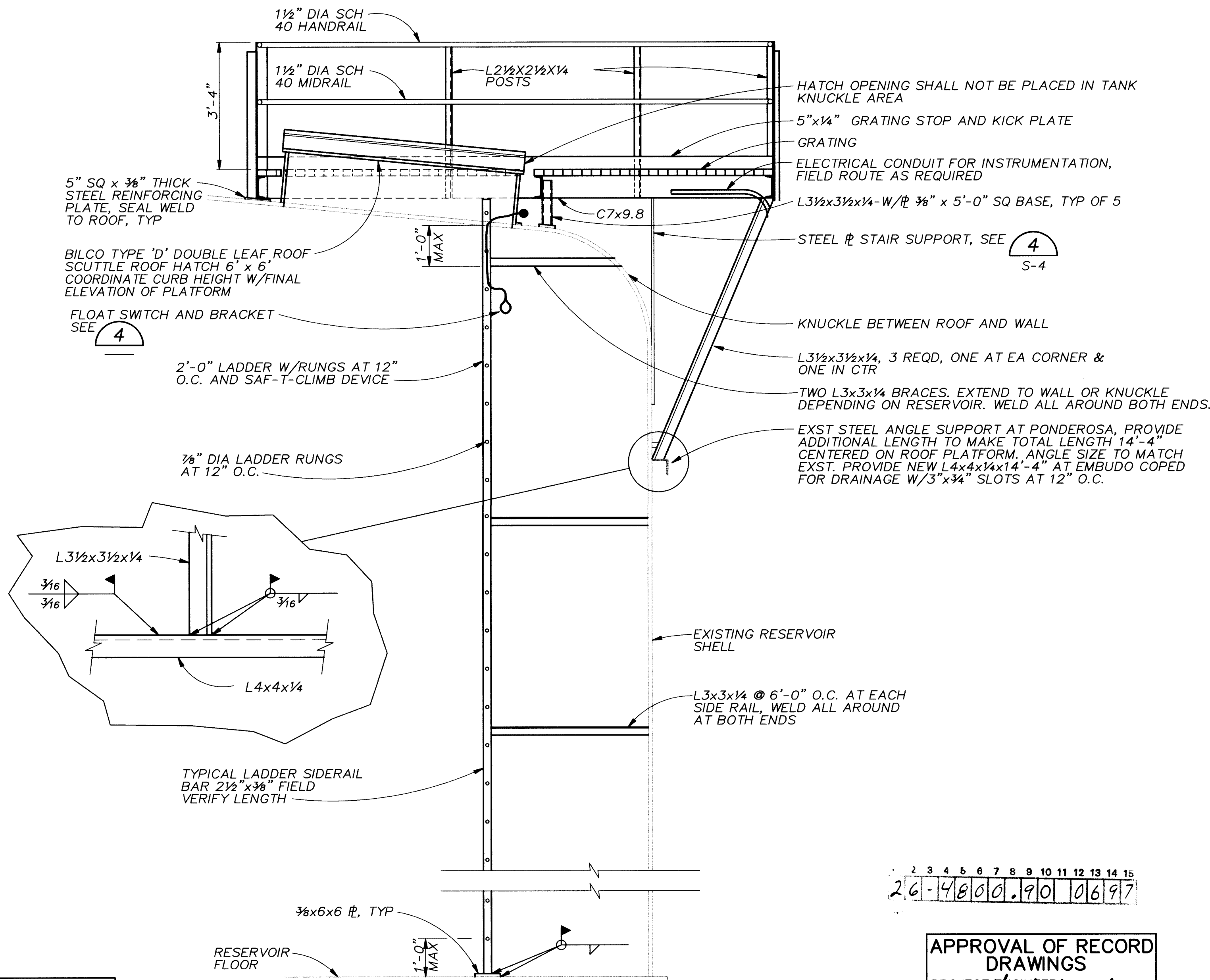


**TEE CONNECTION
TYP FOR ALL PLATFORMS**
DETAIL 2
NTS

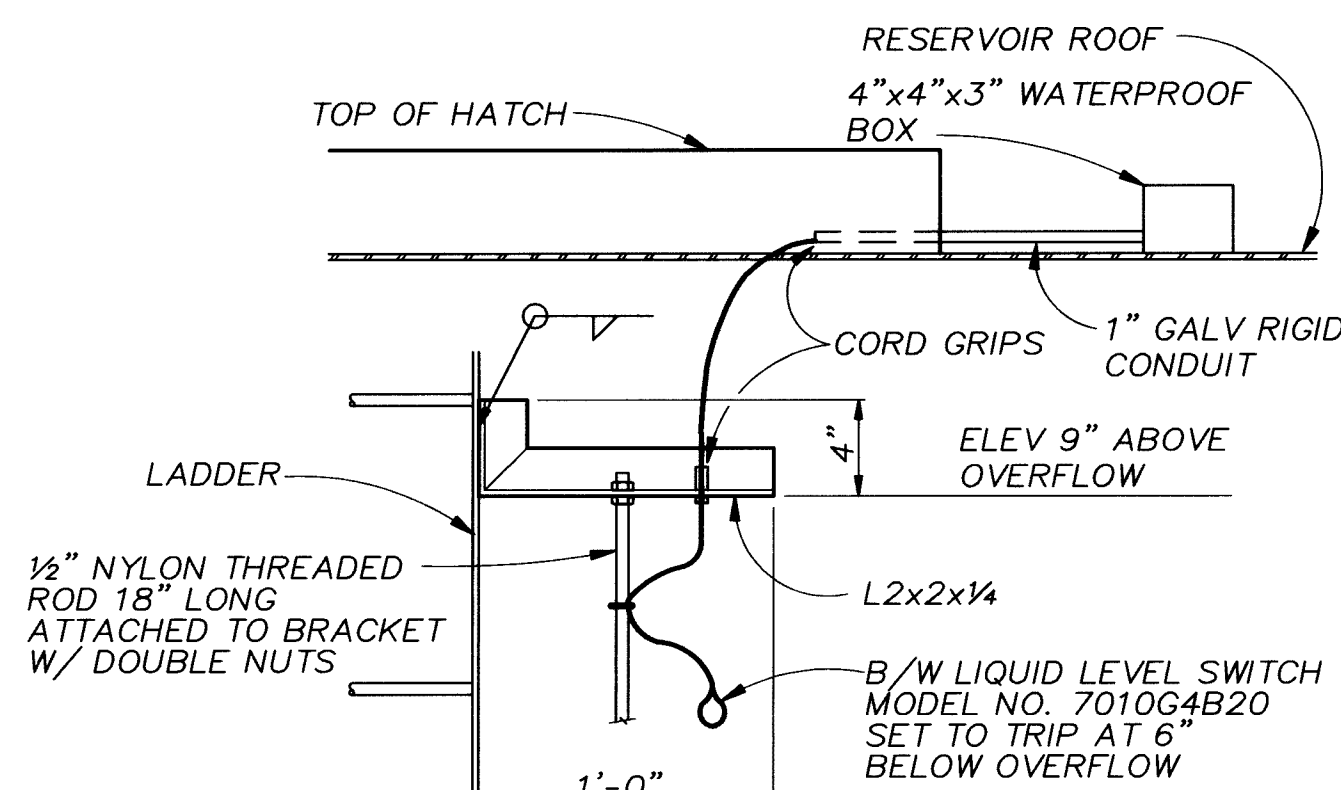
FOOT TRAFFIC GRATING THICKNESS TABLE			
MAXIMUM SPAN	ALUMINUM (IN.)	STEEL (IN.)	FIBERGLASS (IN.)
3'-6"	1 1/4"	1"	1 1/2"
4'-0"	1 1/2"	1"	1 1/2"
4'-6"	1 3/4"	1"	1 1/2"
5'-0"	1 3/4"	1 1/4"	1 1/2"
5'-6"	2"	1 1/4"	1 1/2"
6'-0"	2 1/4"	1 1/2"	1 1/2"
6'-6"	2 1/4"	1 1/2"	1 1/2"
7'-0"	2 1/2"	1 3/4"	1 1/2"

1. GRATING SPAN SEE PLAN.
2. WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-6".
3. SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
4. UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
5. BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
6. BAND ALL EDGES WITH 3/16" x DEPTH OF BEARING BAR.
7. PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
8. TYPE OF MATERIAL USED SHALL BE AS SHOWN ON PLANS OR AS SPECIFIED. THIS STANDARD DETAIL INCLUDES 3 TYPES, ALTHOUGH ALL 3 MAY NOT BE INCLUDED IN PROJECT.
9. THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 1/4" NOT GREATER THAN 1/2".
10. ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS.
11. DO NOT REUSE EXISTING GRATING.

GRATING DETAIL 3
NTS



SECTION A
1/2"=1'-0"



DETAIL 4
NTS
C-1, C-2

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-48010.970 10/10/97

**APPROVAL OF RECORD
DRAWINGS**
PROJECT ENGINEER
Arthur J. Huns
DATE: 10/10/97

RECORD DRAWINGS
Revisions Drawn by JGB Date 10/10/97

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VERIFY SCALES
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0 1"
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CH2M HILL
6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP**

**TITLE: EMBUDO AND PONDEROSA RESERVOIRS
ROOF PLATFORM PLANS, SECTIONS/DETAILS**

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.

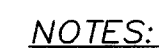
CITY PROJECT NO. **4800.90** Zone Map No. SHEET **6** OF **20**
DRAWING NO. **S-2**

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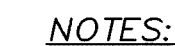
1. RAFTERS REQUIRING BRACING IN ACCORDANCE WITH DETAILS SHOWN ON THIS SHEET SHALL BE VERIFIED AND IDENTIFIED IN THE FIELD BY THE ENGINEER. CONTRACTOR IS DIRECTED TO BID THE BID PROPOSAL FOR APPROXIMATE NUMBER OF RAFTERS REQUIRING BRACING. CONTRACTOR SHALL PROVIDE APPROVED SCISSORS LIFT ACCESS FOR ENGINEER TO INSPECT AND IDENTIFY.
2. WARPED RAFTERS SHALL BE STRAIGHTENED AND BRACED TO NEAREST STRAIGHT RAFTER. WHERE MORE THAN A SINGLE RAFTER IS WARPED IN ONE AREA BRACE TO A MINIMUM OF ONE STRAIGHT RAFTER FOR EACH WARPED RAFTER. AT EMBUDO STRAIGHTEN AND BRACE ALL RAFTERS BETWEEN RING GIRDER AND KNUCKLE.
3. STIFFEN ENDS OF EACH WARPED RAFTER AT CONNECTION TO RING GIRDER WITH RAFTER GUSSET AS SHOWN.
4. REPLACE EXISTING STEEL BOLTS IN ALL RAFTER CONNECTIONS AND AT COLUMN TO RING GIRDER CONNECTION WITH TYPE 316 SST BOLTS PRIOR TO RECOATING TANK INTERIOR. BOLT SIZE SHALL MATCH EXISTING. PROVIDE TWO 1/8"x2" DIA SST FLAT WASHERS WITH EACH BOLT. TEMPORARILY SUPPORT MEMBERS DURING INSTALLATION OF BOLTS AS REQUIRED CONTRACTOR IS DIRECTED TO BID PROPOSAL FOR APPROXIMATE NUMBER OF BOLTS REQUIRED. WHERE EXISTING CONNECTIONS ARE WELDED NO BOLTS ARE REQUIRED. WHERE ONLY ONE BOLT EXISTS, REPLACE IT AND ADD A SECOND BOLT.

NTS



1. REALIGN RAFTER PERPENDICULAR TO RING GIRDER BEFORE WELDING GUSSET IN PLACE.
2. GUSSET IS REQUIRED AT EACH EXISTING WARPED RAFTER AT RING GIRDER CONNECTION.

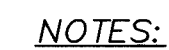
DETAIL 1



1. REMOVE EXISTING RETAINER BOLT.
2. REMOVE EXIST COVER PLATE, AND RETAINER BAR.
3. INSTALL COVER PLATE PRIOR TO RESERVOIR PAINTING AND PAINT INTERIOR AND EXTERIOR SURFACES AS SPECIFIED.
4. AT THE INSULATOR SUPPORT BOLT HOLE REMOVE THE FIXTURE AND PLUG WELD THE HOLES PRIOR TO RESERVOIR PAINTING. THE HOLES ARE LOCATED NEAR THE ANODE ACCESS HOLES IN THE RESERVOIR ROOF.

DETAIL 2

NTS S-1

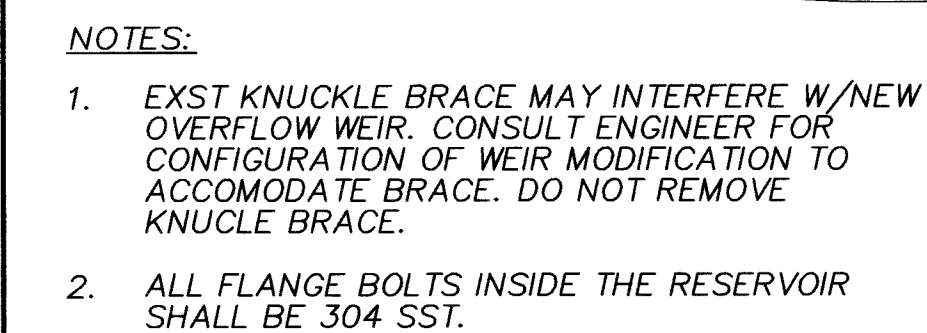


1. CONTRACTOR SHALL DEMOLISH, REMOVE AND REPLACE RESERVOIR FLOOR PLATE AS REQUIRED. SEE SPECIFICATIONS. MINIMUM SIDE LAPS SHALL BE 1 INCH. INSTALL PREMOLDED JOINT FILLER(PJF) AS REQUIRED TO FILL GAP BETWEEN TOP OF FOUNDATION AND BOTTOM OF NEW FLOOR PLATE. PJF SHALL BE BITUMINOUS TYPE CONFORMING TO ASTM D 994 OR D 1751.
2. SAND SHALL BE CLEAN WASHED NATURAL OR MANUFACTURED SAND CONFORMING TO THE REQUIREMENTS OF ASTM C144-84 WITH THE ADDITIONAL REQUIREMENT THAT THE PERCENT PASSING THE NO. 200 SIEVE NOT EXCEED 5 PERCENT. SAND SHALL BE FREE OF CHLORIDES OR OTHER CORROSIVE AND DELETERIOUS SUBSTANCES. RESISTIVITY OF SATURATED SAND SHALL BE LESS THAN 10,000 OHM-CM. SUBMIT GRADATION AND RESISTIVITY TEST RESULTS FOR ENGINEERS APPROVAL.
3. REMOVE JOINT MATERIAL OUTSIDE THE EDGE OF THE FLOOR PLATE ON TOP OF THE FOOTING ALL AROUND THE RESERVOIR AND PREPARE SURFACE AND CAULK WITH SEALANT. SEALANT SHALL BE PREMIUM GRADE HIGH PERFORMANCE 1 COMPONENT POLYURETHANE-BASE, NON-SAG ELASTOMERIC SEALANT, SIKAFLEX-1A OR EQUAL.
4. ROUT OUT CIRCUMFERENTIAL CRACKS GREATER THAN OR EQUAL TO 1/8-INCH IN WIDTH IN TOP OF RING WALL FOUNDATION. GROOVE SHALL BE APPROXIMATELY 3/8 INCHES IN WIDTH AND 1/4 INCH DEEP. SANDBLAST CRACK AFTER ROUTING AND CLEAN CRACK USING COMPRESSED AIR PRIOR TO APPLYING BOND BREAKER AND SEALANT. SEALANT SHALL BE SIKAFLEX-1A OR EQUAL.
5. ABRASIVE BLAST OR CENTRIFUGAL WHEEL BLAST (SP-5) SURFACE OF EXISTING FLOOR PLATES FOR A DISTANCE 12" AWAY FROM THE WALL AROUND THE TANK PRIOR TO REMOVAL OF EXISTING FLOOR PLATE AND INSTALLATION OF NEW FLOOR PLATE.
6. CONTRACTOR SHALL VACUUM BLAST EXTERIOR WALL SURFACE OF THE TANK, FOR A MINIMUM OF 6" ABOVE FLOOR LEVEL, AROUND THE ENTIRE PERIMETER AND COAT THE AREA PER SECTION PAINTING.

DETAIL 3

[illegible]

[illegible]



OVERFLOW DETAIL 1

NTS (PONDEROSA RESERVOIR ONLY) C-2



30" DI PIPE, SEE SHEET 3 FOR CONTINUATION

3/8" # WEIR BOX, PAINT AS SPECIFIED FOR RESERVOIR INSIDE AND OUT

12'-0"

3-2x2x1/4 STRUTS AT TOP OF BOX

2'-0"

SUPPORT BRACE SEE SECTION

EXISTING RESERVOIR TANK WALL

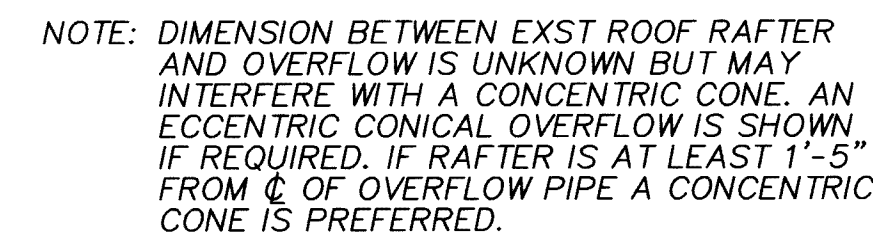
SUPPORT BRACE SEE SECTION

RESERVOIR DIA = 170'-0"

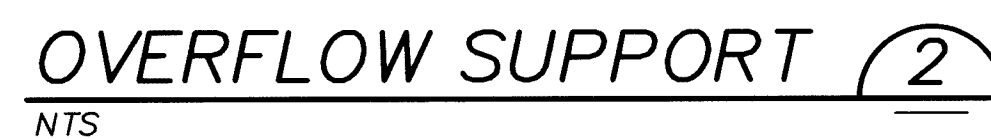
L3x3x1/4x3'-0" REINF, TYP OF 3

SUPPORT BRACE SEE SECTION

NOTE:
DISTANCE BETWEEN WEIR AND RESERVOIR
WALL VARIES DUE TO CURVATURE OF WALL.



DETAIL 4
NTS C-1
(EMBUDO RESERVOIR ONLY)



"D"	A	B
24"	6"	1'-8"
20"	4½"	1'-5"

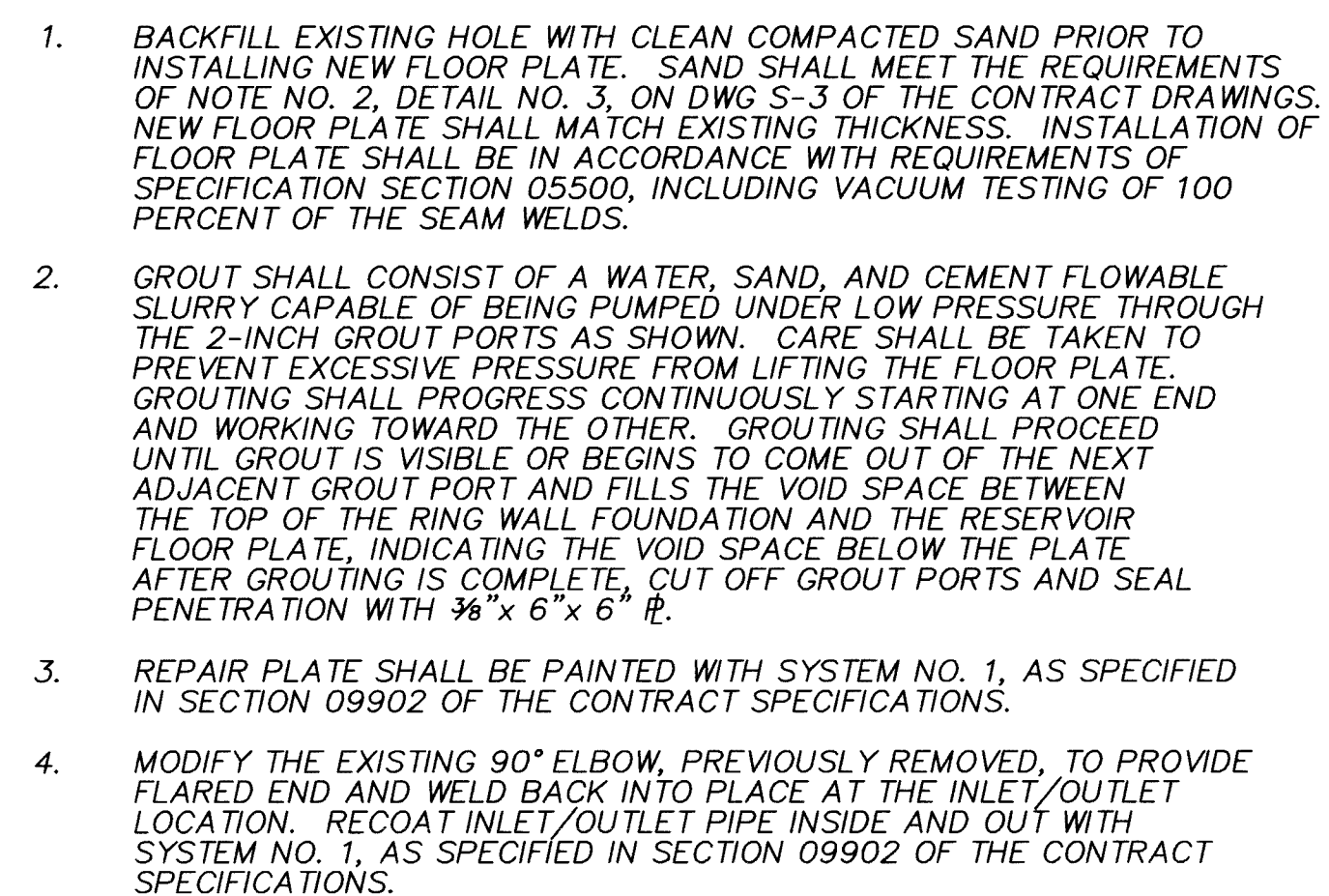
APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER: *Arthur J. Stuart*
DATE: *10/10/97*


Revisions Drawn by JGB Date 10/10/97


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[illegible]



APPROVAL OF RECORD DRAWINGS	Revisions Drawn by <u>JGB</u> Date <u>10/10/97</u>	THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION OR TYPE OF CONSTRUCTION. THE USER OF THESE DRAWINGS AS AN ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.
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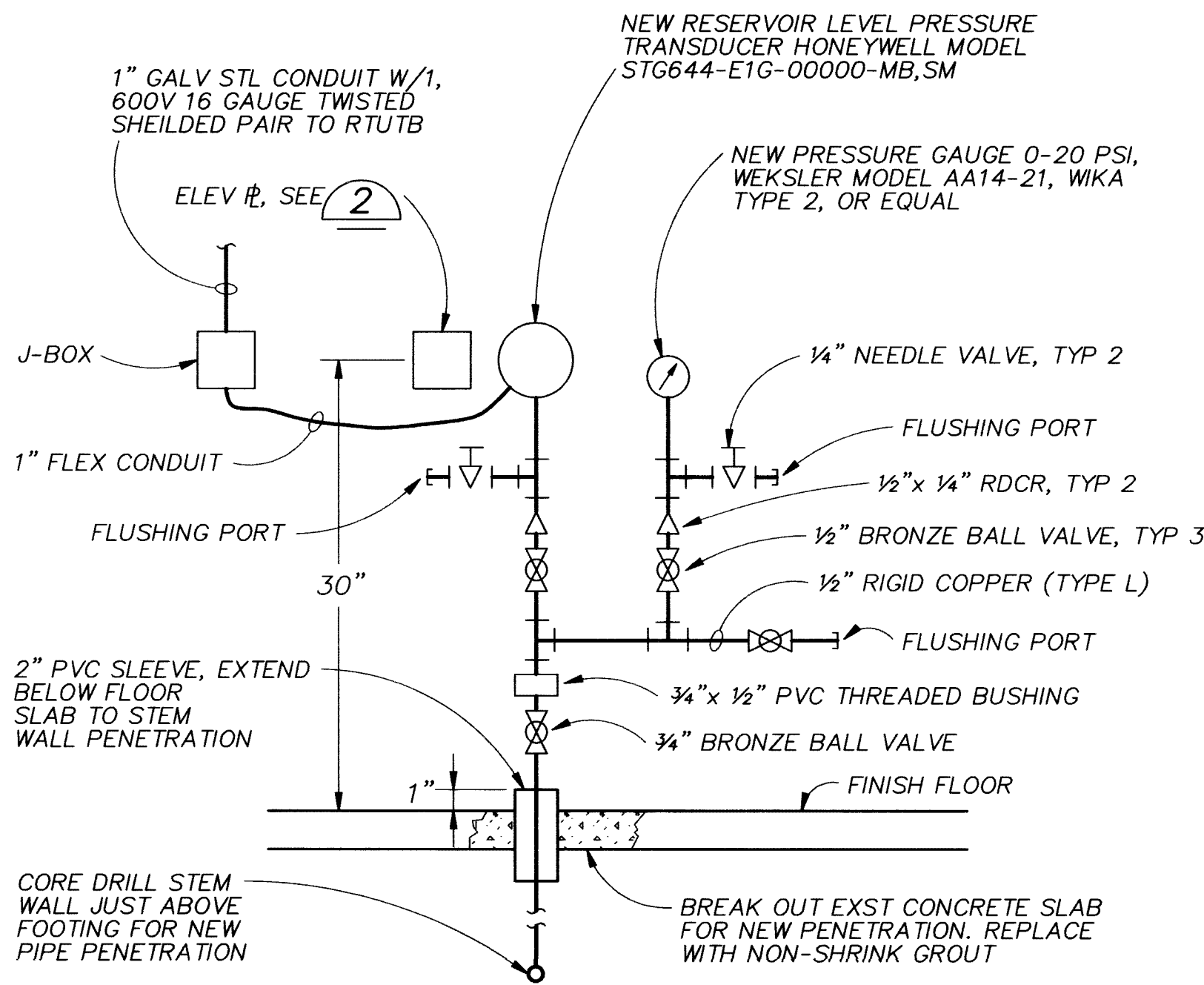
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TITLE: EMBUDO AND PONDEROSA RESERVOIRS
CORONADO RESERVOIR REPAIRS

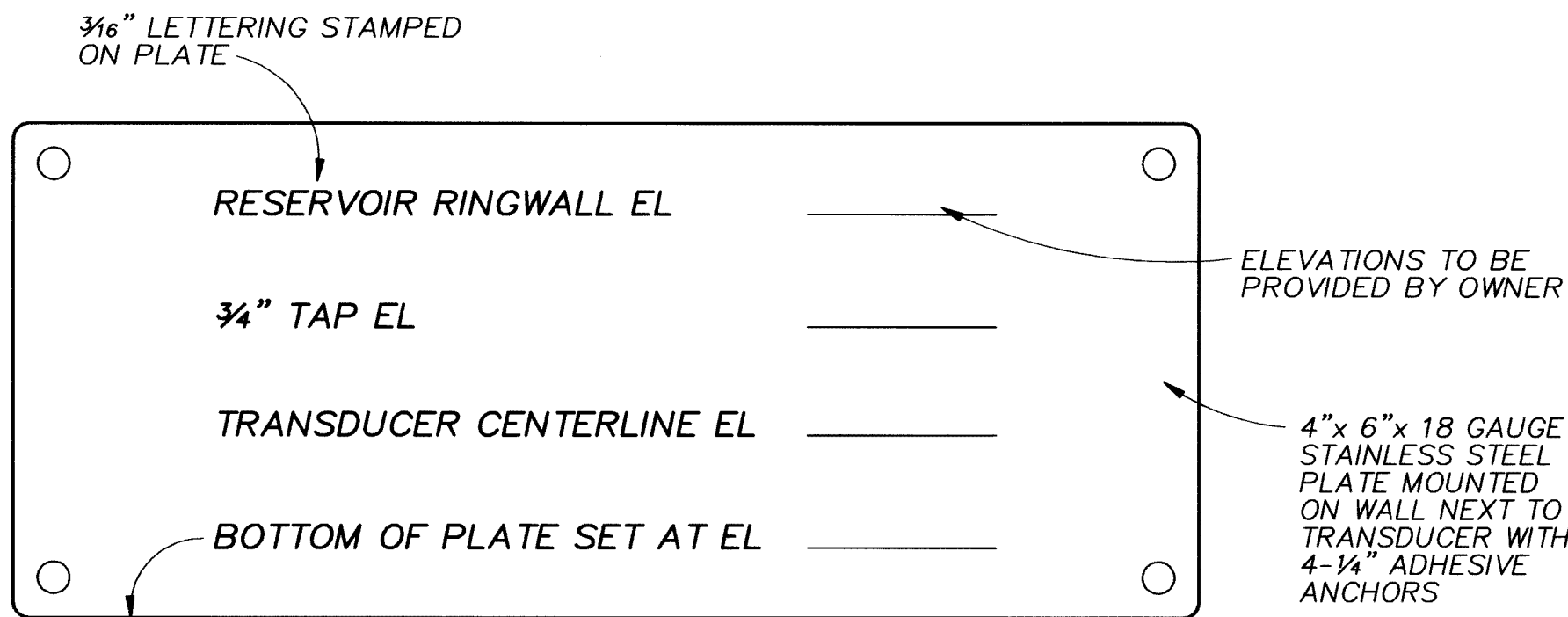
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
CITY PROJECT NO. 4800.90		Zone Map No. D-18	SHEET 10B OF 20 DRAWING NO. S-7	

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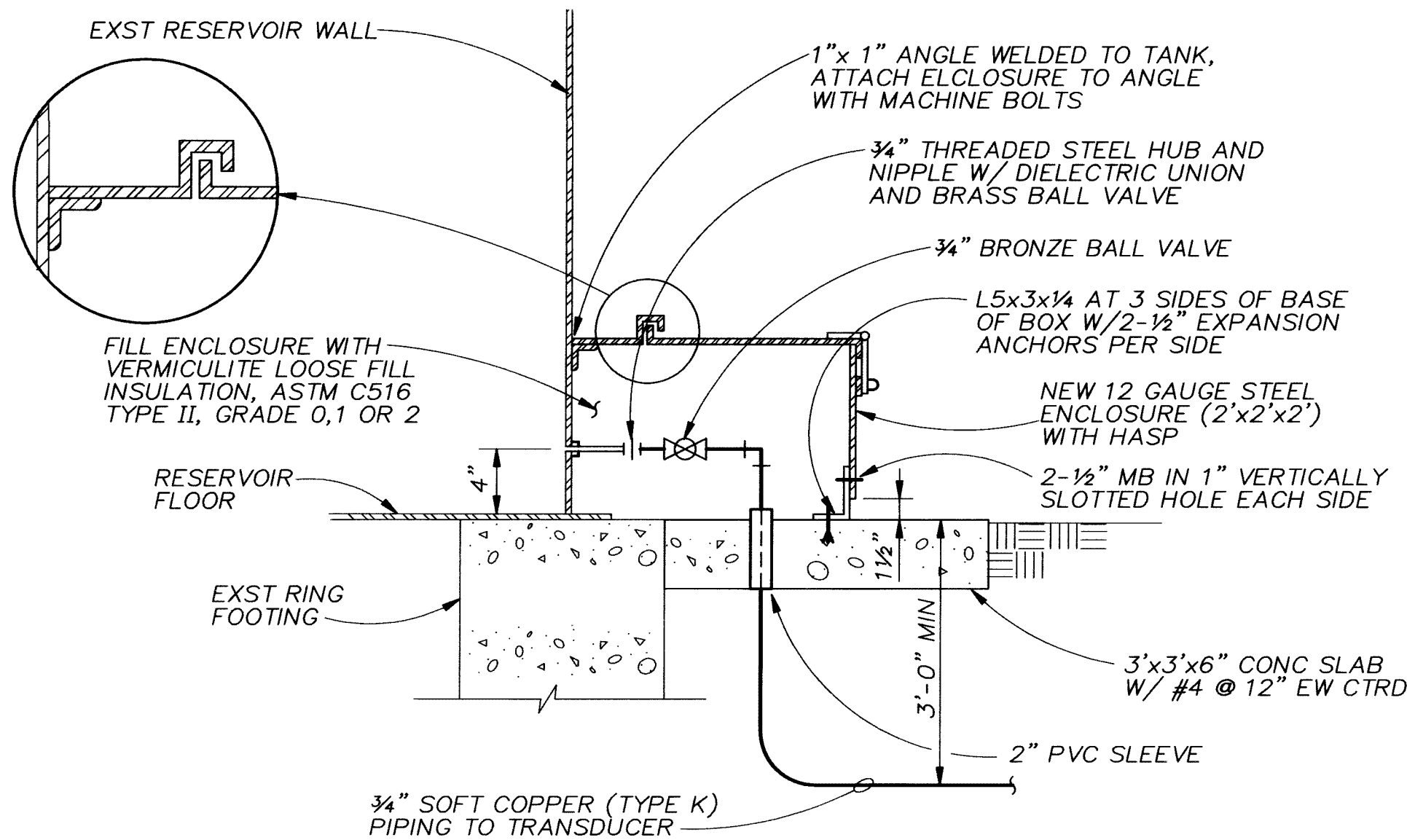


NOTE: SUPPORT PRESSURE TRANSDUCER AND PIPING TO INTERIOR WALL OF PUMP STATION WITH STEEL UNISTRUT AND 1/2" STAINLESS STEEL ADHESIVE ANCHORS.

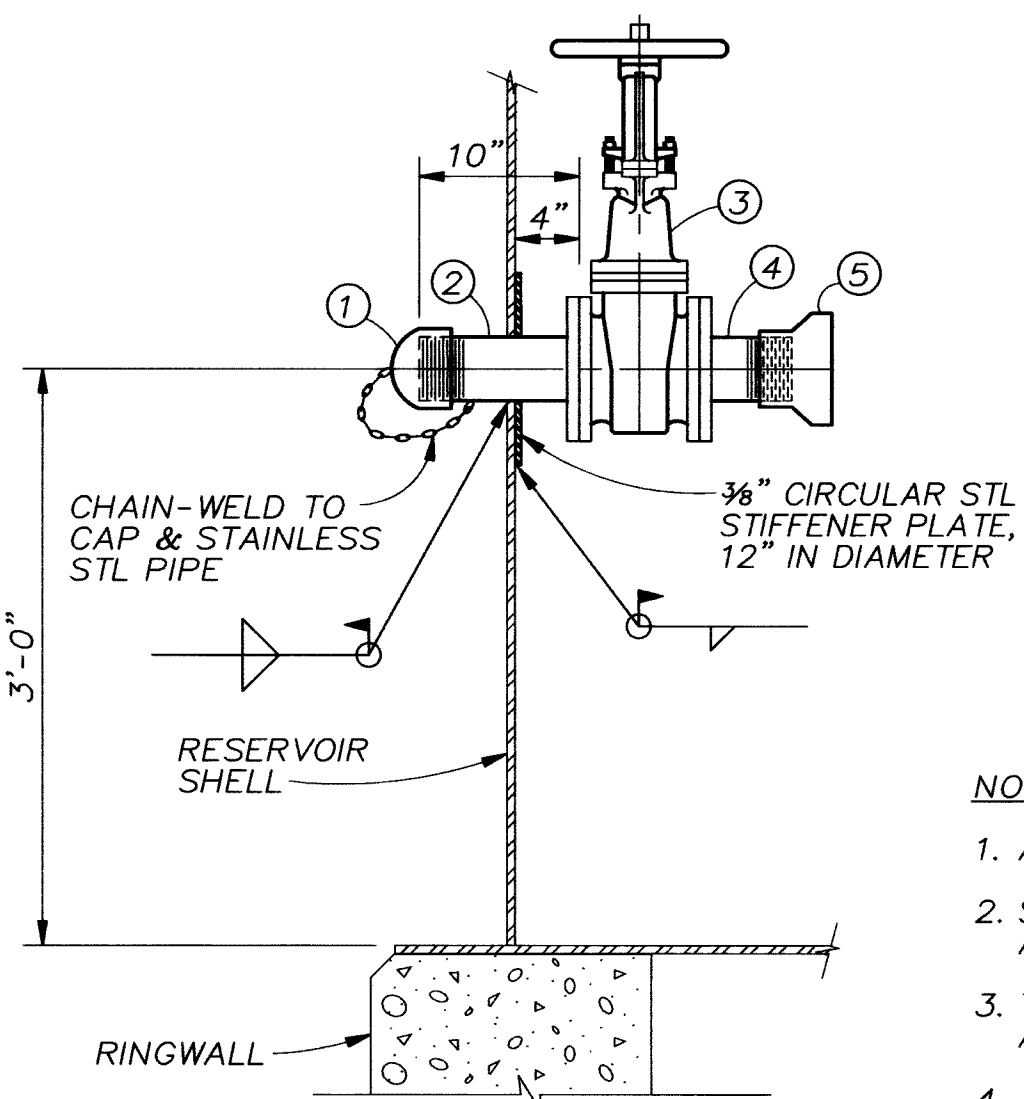
PRESSURE TRANSDUCER CONNECTION 1
NTS C-2



ELEVATION PLATE 2
NTS

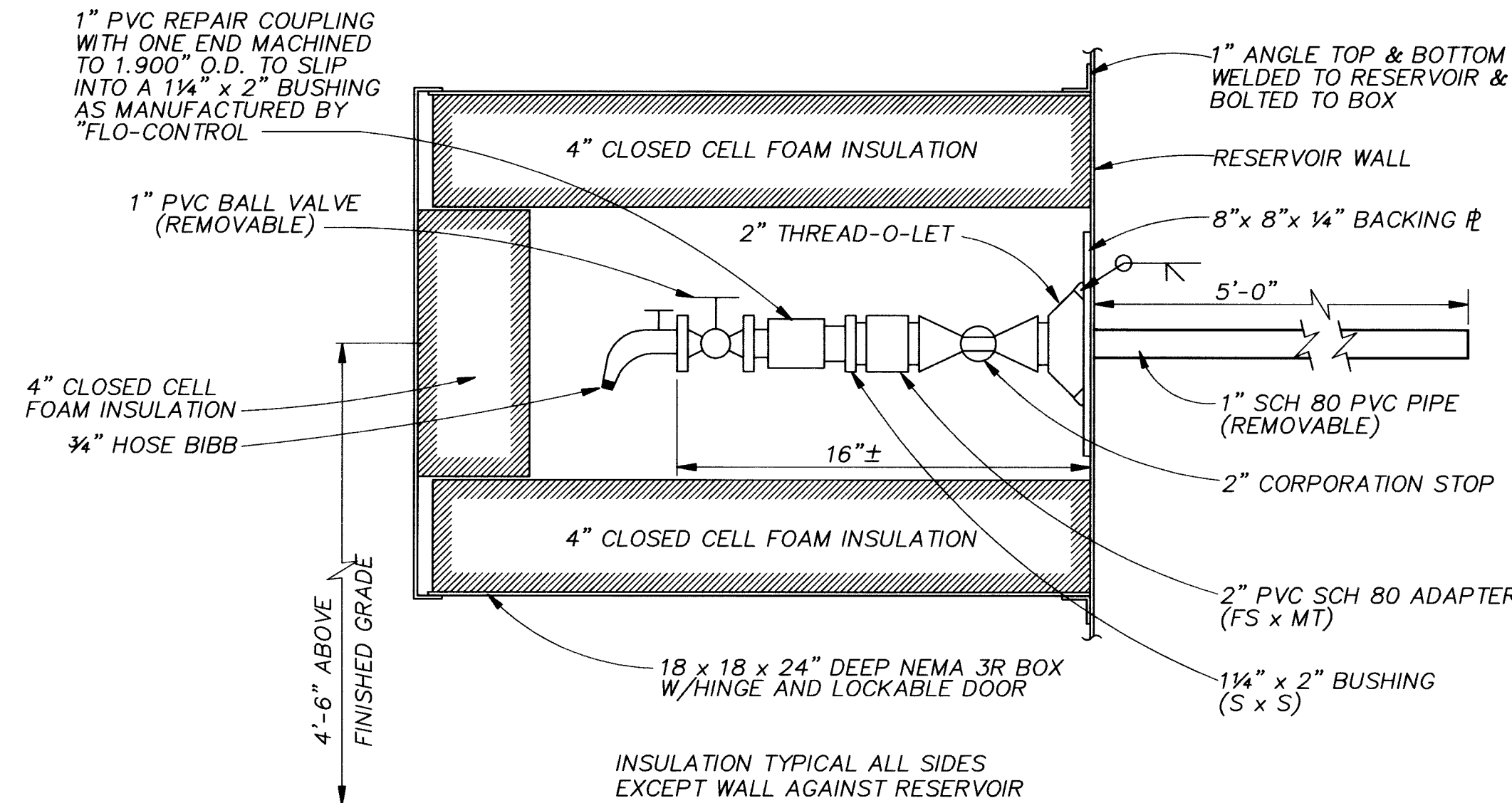


RESERVOIR PRESSURE SENSOR BOX 3
NTS C-2

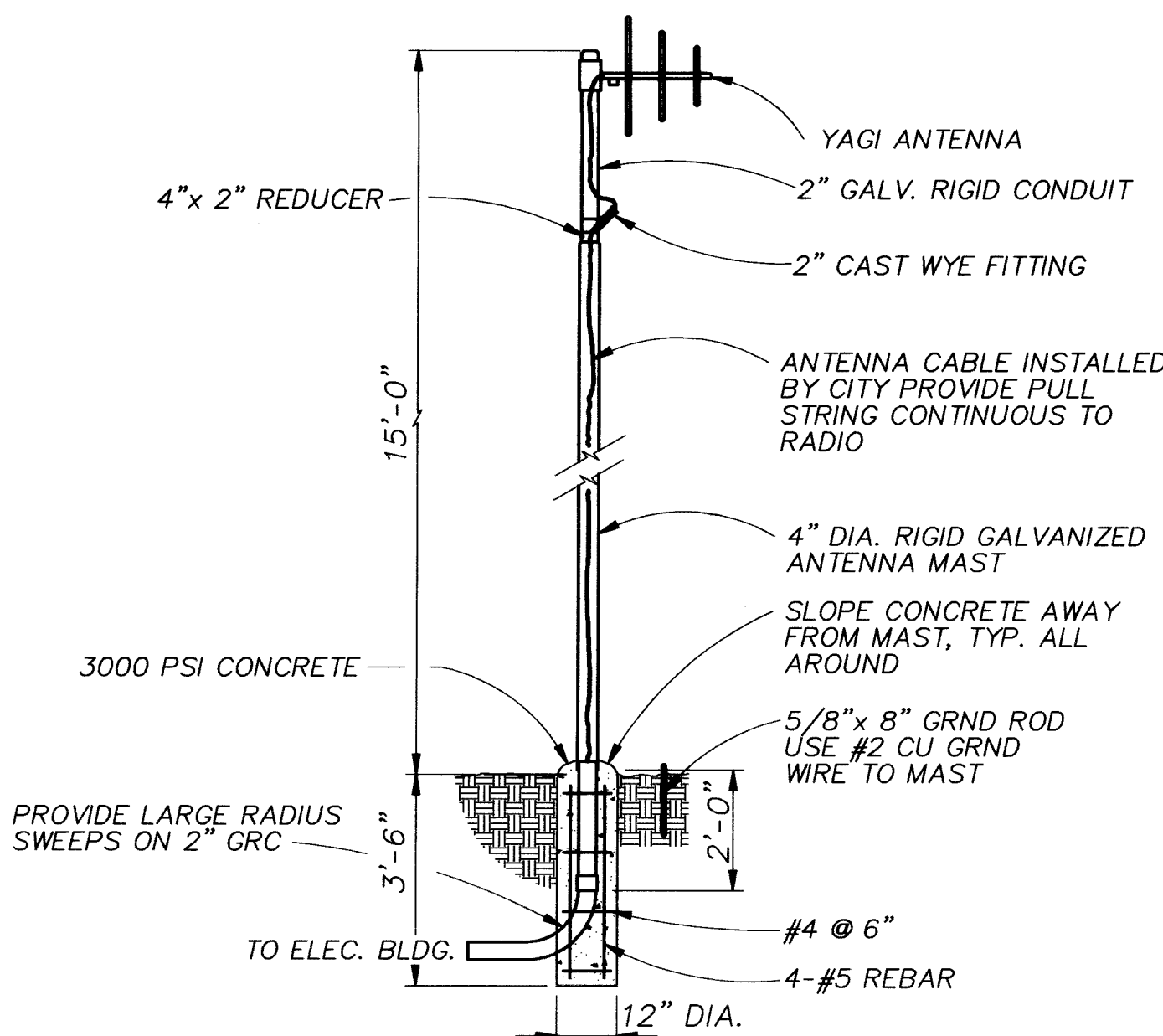


- NOTES:
- ALL THREADS ARE TO BE NATIONAL PIPE THREADS (NPT).
 - STEEL SHALL BE SCHEDULE 80, TREATED WITH SAME PAINT SYSTEM AS RESERVOIR. (INSIDE TANK AND OUTSIDE TANK)
 - TREAT INSIDE OF ITEM NOS. 1, 2 AND 4 W/ SAME PAINT SYSTEM AS RESERVOIR.
 - ALL BOLTS SHALL BE 304 SST.

PUMP OUT VALVE DETAIL 4
NTS C-2



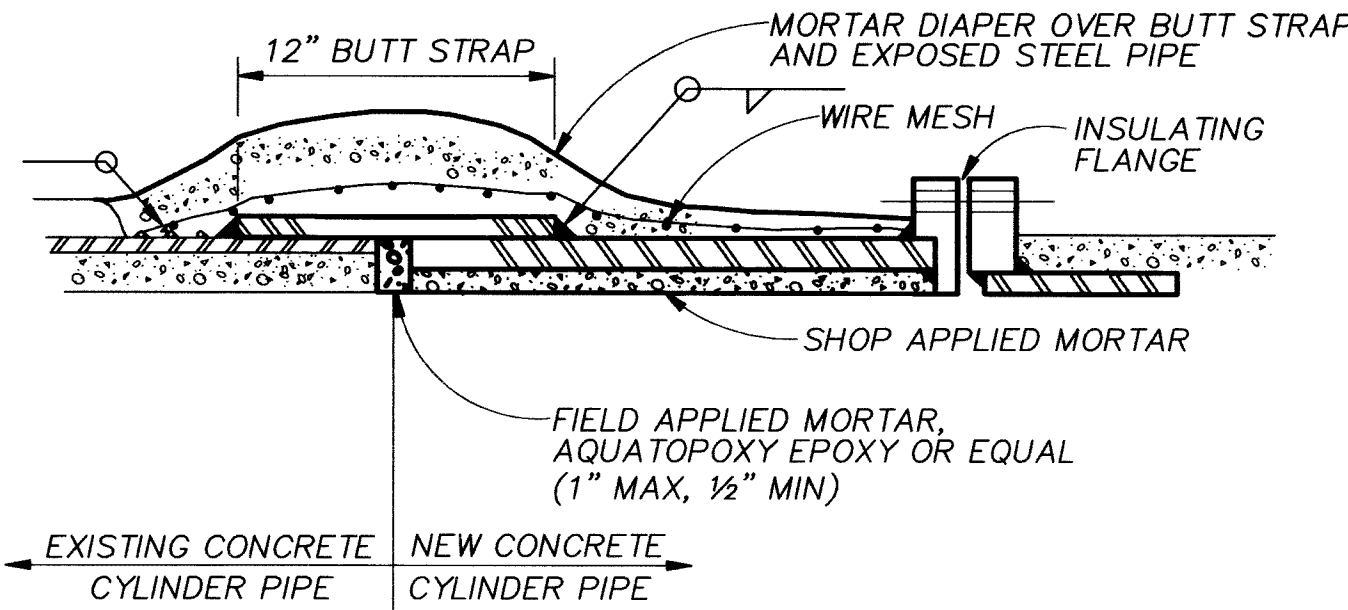
SAMPLING STATION DETAIL 5
NTS C-1, C-2, C-3



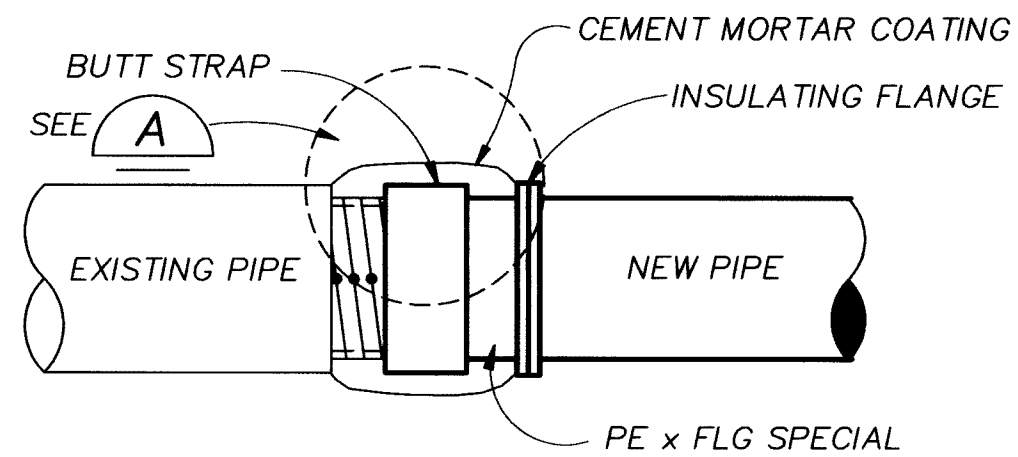
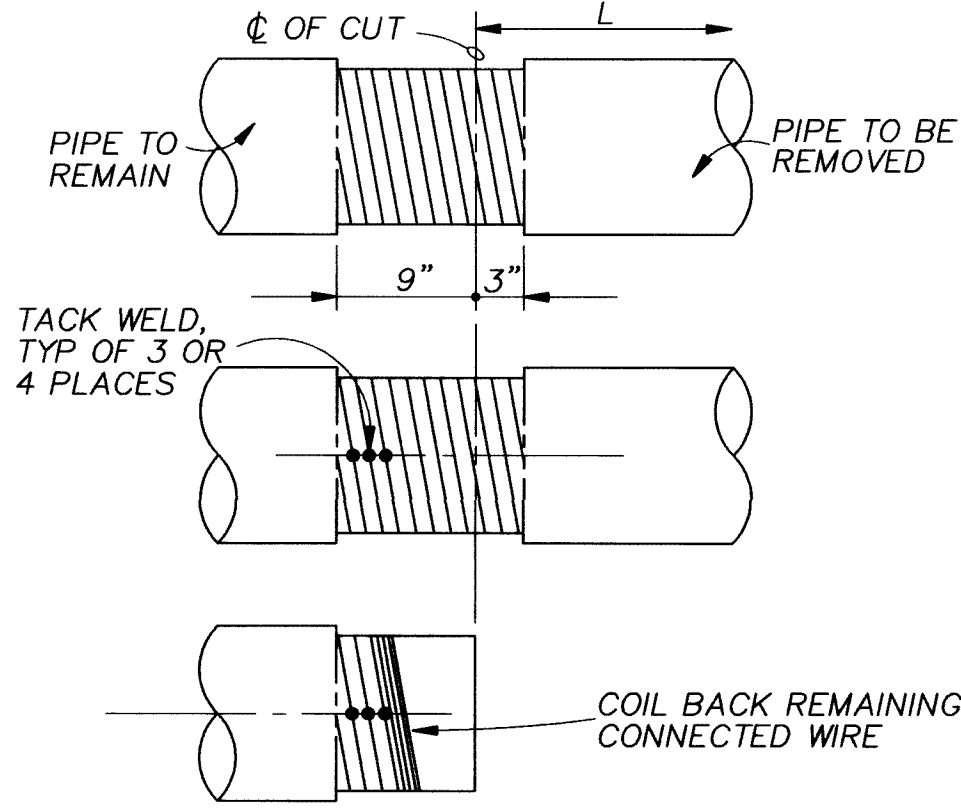
ANTENNA MAST 7
NTS C-1

PUMP OUT VALVE PIPING SCHEDULE

ITEM NO.	DESCRIPTION
1	3" THREADED 304 STAINLESS STEEL CAP
2	3" DIA THREADED x FLANGED STEEL SPOOL
3	FLANGED CAST IRON GATE VALVE, BRONZE STEM AND WEDGE, CRANE NO. 461
4	3" DIA x 0'-6" FLANGED x THREADED STEEL SPOOL
5	SEALFAST, 4D CAM & GROOVE TYPE FITTING (BOTH ENDS ARE FEMALE), STAINLESS STEEL, NPT



SECTION A
NTS



BUTTSTRAP SEQUENCE:

- DETERMINE LENGTH "L" OF PIPE TO BE REMOVED AND MARK ON PIPE.
- CAUTIOUSLY CHIP OFF THE COATING 9" FROM THE MARKED POINT OF THE PIPE TO REMAIN, THEN CHIP OFF THE COATING OF THE PORTION OF THE PIPE TO BE REMOVED 3" FROM THE MARKED POINT.
- MARK THE CUT LOCATION ON THE EXPOSED WIRE WRAPPED CYLINDER.
- TACK WELD EXPOSED WIRE ALONG A HORIZONTAL LINE ON THREE OR FOUR CIRCUMFERENTIAL WRAPS OF THE PIPE TO REMAIN 6" IN FROM THE CUT MARK.
- CUT CYLINDER AND WIRE WRAP ALONG MARK AND REMOVE PIPE AND ANY WIRE NOT STILL CONNECTED TO THE REMAINING CYLINDER WRAP.
- COIL BACK PORTION OF UNTACKED WIRE WRAP
- PLACE NEW CONNECTING PIPE AND INSTALL BOTTOM HALF OF 12" BUTT STRAP AND WELD.
- MORTAR LINE THE INSIDE BOTTOM OF THE BUTT STRAP.
- PLACE THE TOP HALF OF THE BUTT STRAP ON THE PIPE AND WELD.
- MORTAR LINE THE TOP HALF OF THE BUTT STRAP.
- PULL TAUGHT THE REMAINING WIRE WRAP (STEP 6) BACK TO WITHIN 1" OF BUTT STRAP OVERLAP AND TACK WELD.
- PLACE CEMENT MORTAR COATING OVER BUTT STRAP AND EXPOSED WIRE WRAPPED CYLINDER IN ACCORDANCE WITH AWWA C303 USING 2x4x13 GA. WELDED WIRE FABRIC HELD 3/8" FROM THE STEEL.

BUTT STRAP DETAIL FOR CONCRETE CYLINDER PIPE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
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APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER: *Anthony J. Stuart*
DATE: 10/10/97

RECORD DRAWINGS

Revisions Drawn by: JGB Date: 10/10/97
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CH2M HILL
6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico 87110
(505) 884-5600

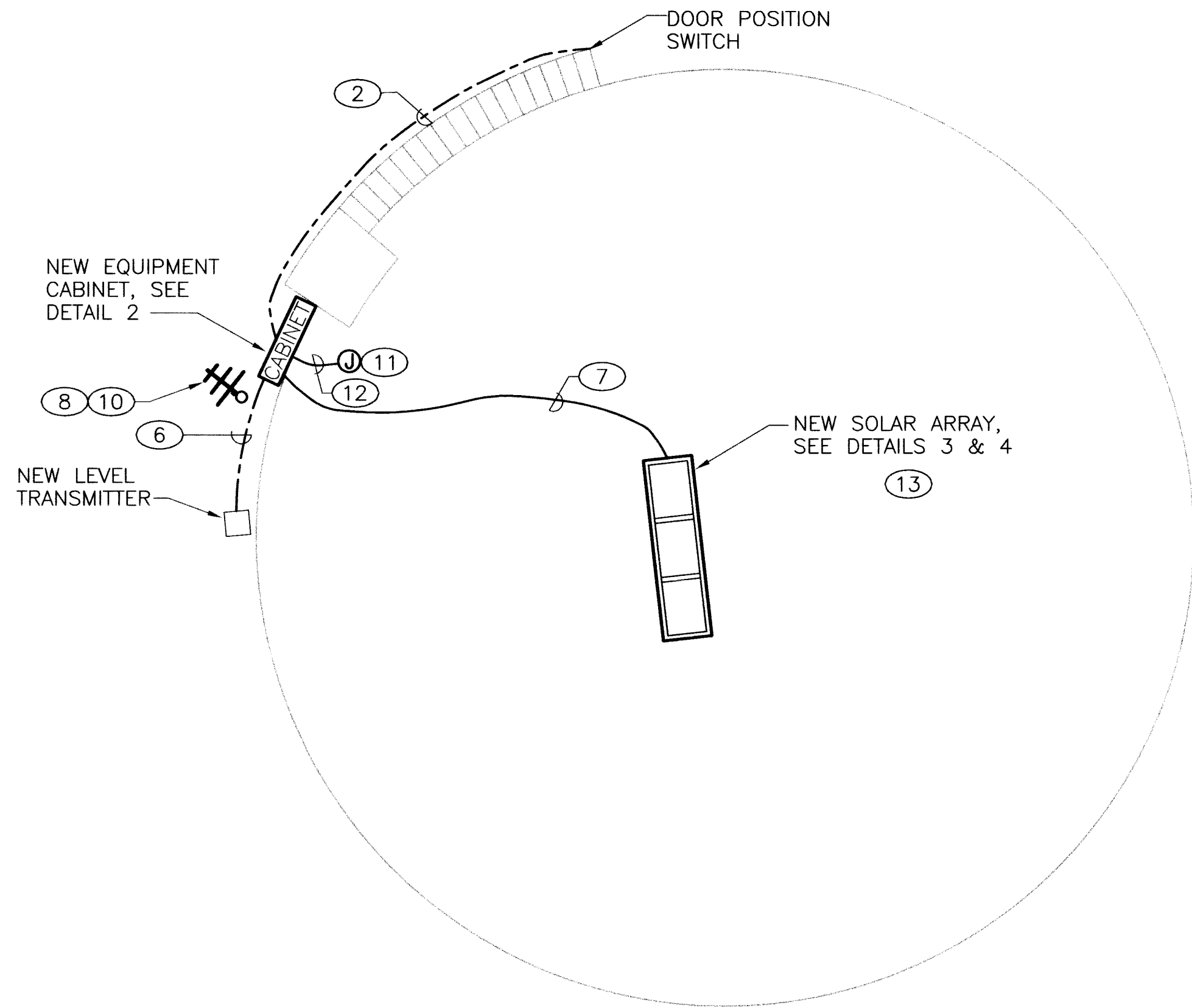
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP
TITLE: EMBUDO AND PONDEROSA RESERVOIRS
MECHANICAL DETAILS

Design Review Committee City Engineer Approval

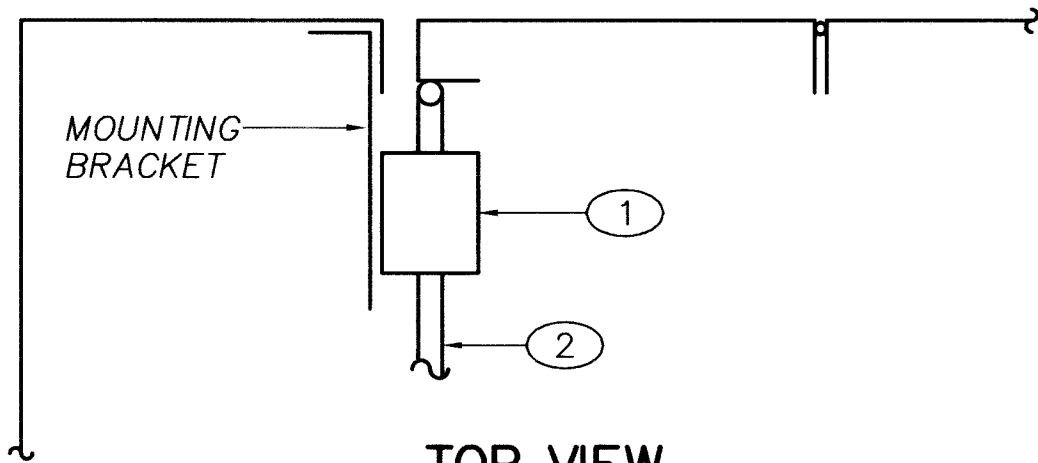
CITY PROJECT NO. 4800.90

Zone Map No. SHEET 12 OF 20
DRAWING NO. M-2

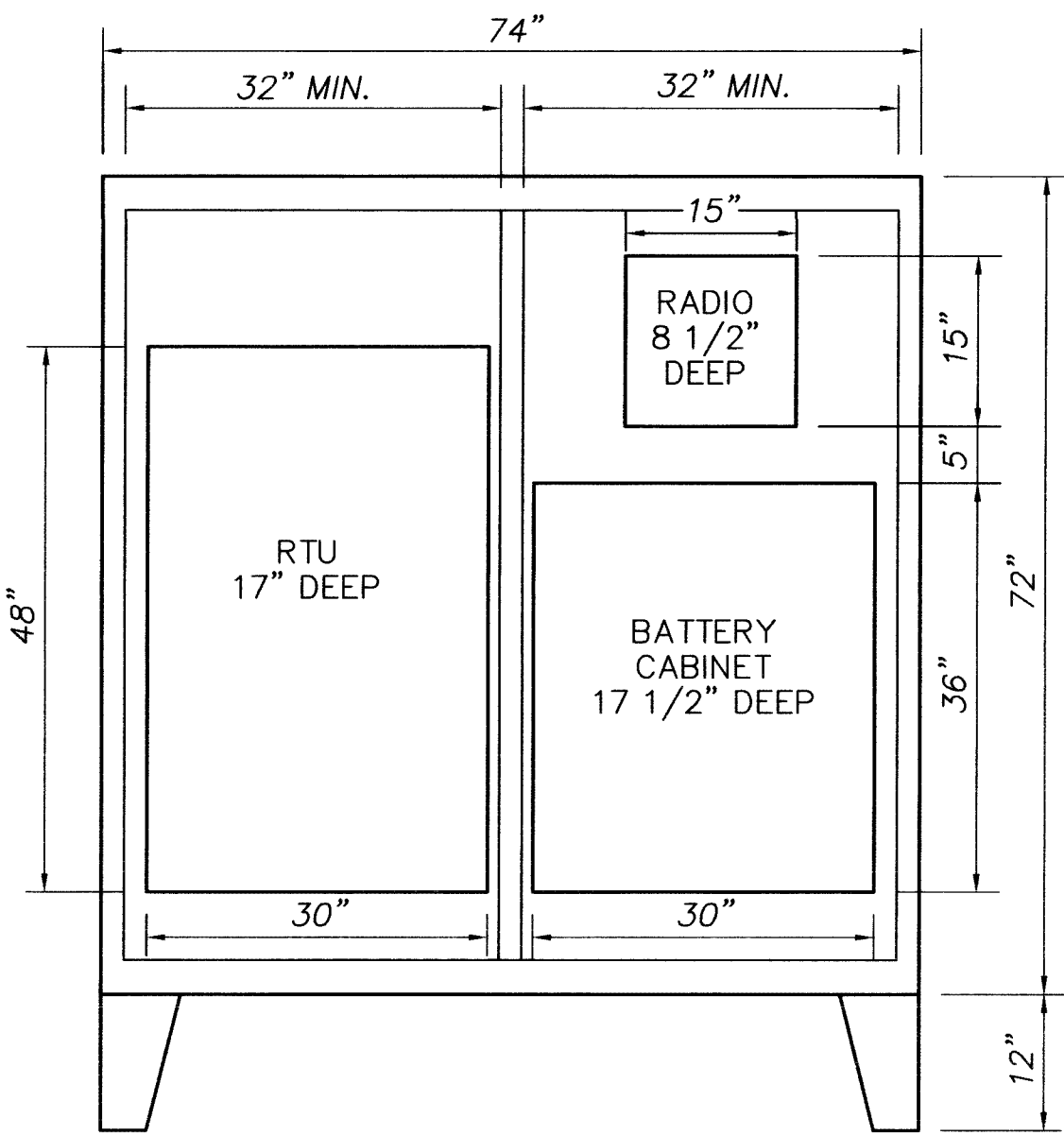
SCANNED BY
BY LASON



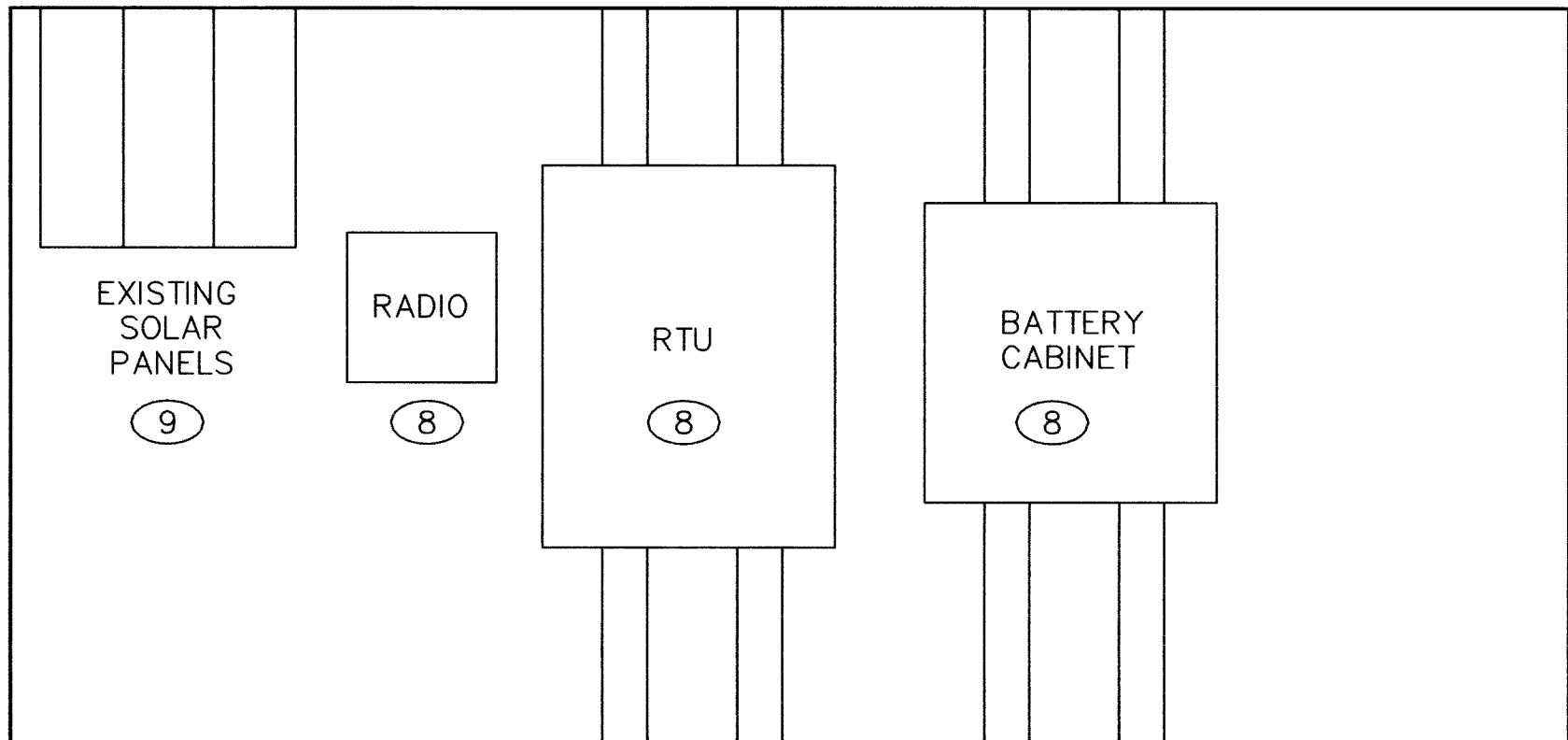
ELECTRICAL SITE PLAN
N.T.S.



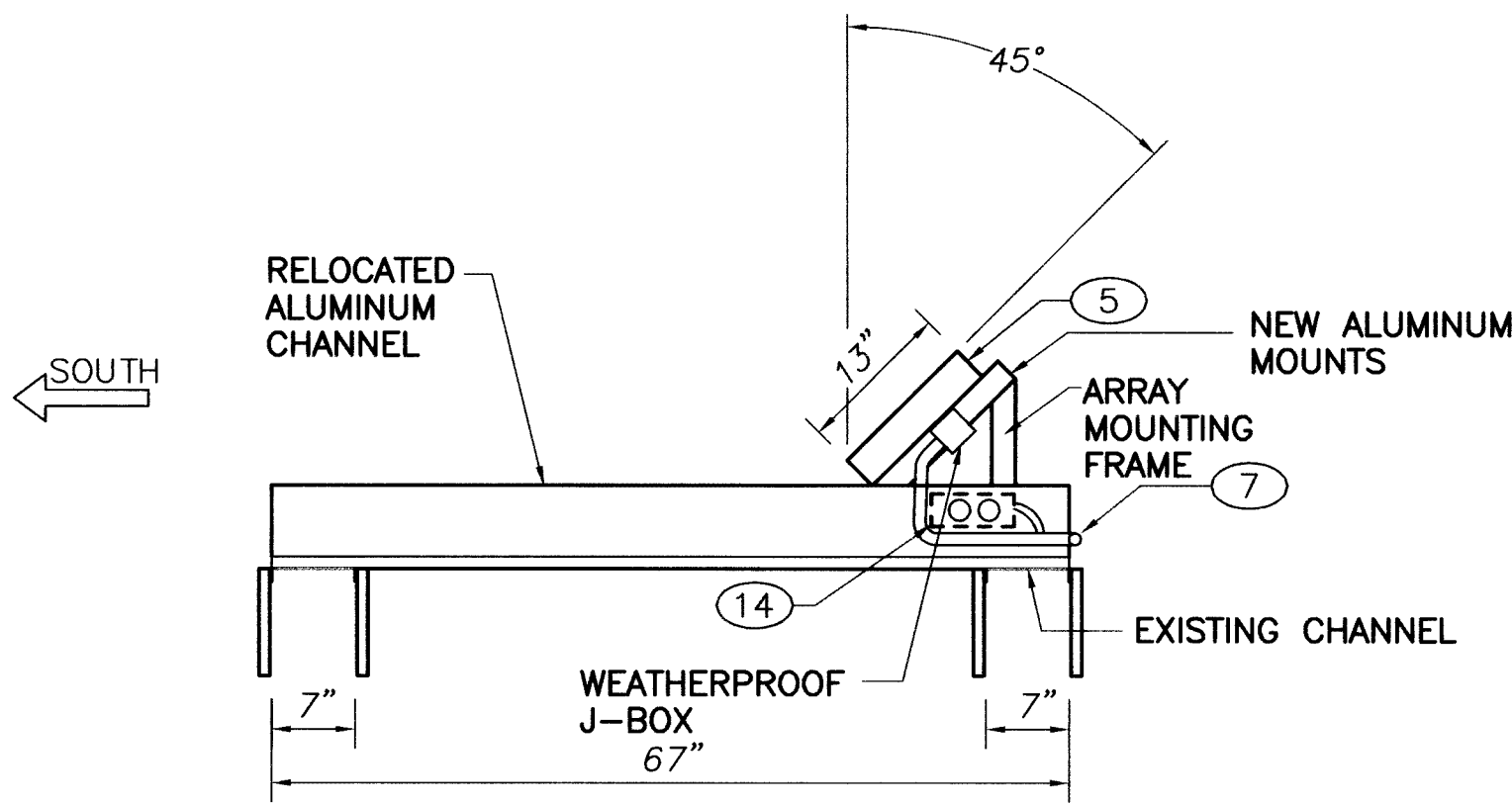
TOP VIEW
DOOR POSITION SWITCH DETAIL
N.T.S.



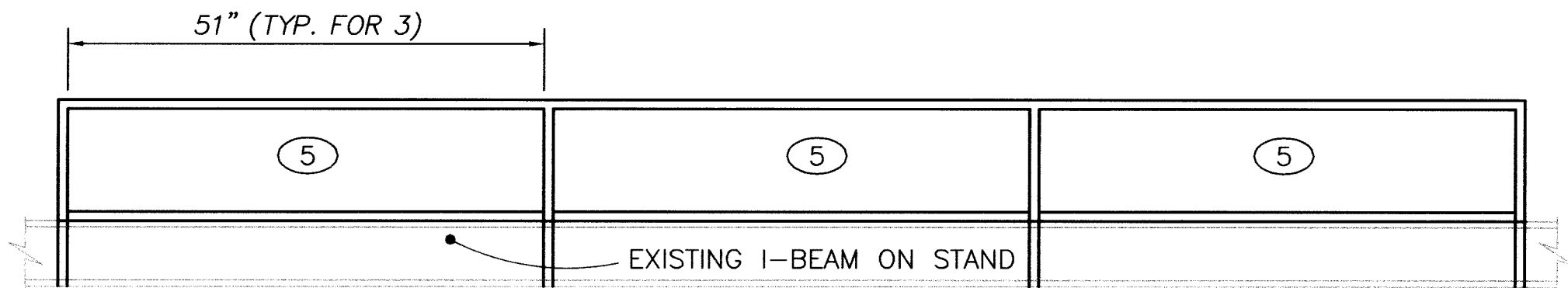
NEW EQUIPMENT CABINET
FRONT VIEW-DOORS REMOVED
DETAIL 2
N.T.S.



FRONT VIEW OF EXISTING
EQUIPMENT ON TOP OF TANK
BEFORE DEMOLITION
N.T.S.



SIDE VIEW OF NEW SOLAR ARRAY
MOUNTING DETAIL 3
N.T.S.



FRONT VIEW OF NEW SOLAR ARRAY
MOUNTING DETAIL 4
N.T.S.

KEYED NOTES

- 1 LIMIT SWITCH, PUSH TYPE WITH ROLLER SEC. 16909. CONTACT CLOSED WHEN DOOR IS CLOSED.
- 2 2-#14 AWG IN 3/4" RMC TO RTU (RNMC UNDER GROUND).
- 3 NEMA 4, DOUBLE-DOOR ENCLOSURE. 24" DEEP, SEC. 16160. HOFFMAN A-74H72JULP. POSITION RADIO, RTU AND BATTERY CABINET SUCH THAT DOORS OPEN 90° MINIMUM. PROVIDE 48 SQ. IN. MINIMUM OF LOUVERS OPENING AREA ON EACH END OF ENCLOSURE.
- 4 RELOCATE RTU, RADIO & BATTERY CABINET TO NEW EQUIPMENT CABINET. REMOVE EXISTING SOLAR PANELS AND RETURN TO OWNER. REMOVE FRAME STRUCTURE ABOVE 7" WIDE I-CHANNELS. BUILD NEW FRAME AS SHOWN.
- 5 SOLAR ELECTRIC POWER MODULE. TYPICAL FOR 3. SEE SEC. 16681. ENGRAVE "CITY OF ALBUQUERQUE" ON EACH SOLAR MODULE FRAME, MINIMUM 1/32" DEEP.
- 6 NEW 1/2" RNMC WITH 2 CONDUCTOR SHIELDED CABLE PER SEC. 16123, 2.02. CONNECT NEW LEVEL TRANSMITTER TO RTU IN NEW EQUIPMENT CABINET.
- 7 NEW 1" RMC WITH 3-#12 AWG FROM SOLAR PANEL TO BATTERY CHARGING CIRCUIT IN NEW EQUIPMENT PANEL. WIRE THE THREE SOLAR PANELS IN PARALLEL. CONDUIT ALSO CONTAINS 3-#12 AWG FOR THE RECEPTACLE. TERMINATE RECEPTACLE WIRES IN NEW CABINET AT A TERMINAL BOARD FOR CONNECTION TO PORTABLE GENERATOR.
- 8 RELOCATED ANTENNA.
- 9 DEMOLISH.
- 10 INSTALL NEW ANTENNA MAST, 1" CONDUIT FROM EQUIPMENT CABINET, AND WEATHERHEAD. SEE DETAIL 7 ON "MISCELLANEOUS DETAILS."
- 11 INSTALL BOX AND FLOAT. SEE DETAIL 4 ON "ROOF PLATFORM PLANS, SECTIONS/DETAILS."
- 12 1/2" CONDUIT TO EQUIPMENT CABINET. CONNECT FLOAT WITH 2 #14.
- 13 INSTALL WEST END OF ARRAY AT WEST END OF EXISTING CHANNEL SYSTEM.
- 14 WP RECEPTACLE AT WEST END OF CHANNEL.

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER:
Arthur J. Sorenson
DATE: 10/10/97

RECORD DRAWINGS

Revisions Drawn by JGB Date 10/10/97
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MOLZEN-CORBIN
& ASSOCIATES

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CHM HILL

CHM HILL
6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: EMBUDO RESERVOIR
ELECTRICAL SITE PLAN AND DETAILS

Design Review Committee City Engineer Approval

City Project No. 4800.90 4366.98

Zone Map No. SHEET 13 OF 20

DRAWN BY JRR DATE 7-96

CHECKED BY E. SORENSON DATE 7-96

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER:
DATE:

SCANNED BY
BY LASON



EXCEPT WHERE SHOWN AS EXISTING, ALL ELECTRICAL WORK IS NEW.

LOCATIONS OF EXISTING CONDUIT AND PIPING ARE APPROXIMATE AND/OR ASSUMED. LOCATE IN FIELD BY ELECTRONIC LOCATING EQUIPMENT AND/OR HAND DIGGING BEFORE ANY EXCAVATION OR DRIVING OF RODS OR ANCHORS. TYPICAL FOR ALL UNDERGROUND OBSTRUCTIONS, SHOWN OR NOT.

(22) BOTTOM THREE CUBICLES OF RIGHT SECTION OF EXISTING MCC ARE AVAILABLE FOR USE. REMOVE EXISTING FEEDER AND LUGS. REMOVE EQUIPMENT AND DOORS. OBTAIN NEW 400 A 3 POLE 600 V CIRCUIT BREAKER, MOUNTING HARDWARE, BUS LINKS, DOORS, AND SPECIALTY HARDWARE FROM MCC MANUFACTURER. INSTALL IN MCC AND CONNECT TO VERTICAL BUS IN ACCORDANCE WITH MCC MANUFACTURER'S INSTRUCTIONS. INSTALL DOORS. NAMEPLATE: 480 VAC MAIN CIRCUIT BREAKER. CONNECT NEW FEEDER. THE EXISTING MCC LOCATED AT THIS SITE WAS MANUFACTURED BY WESTINGHOUSE.



- (1) TEMPORARY GENERATOR. SET CLOSE TO PRIMARY EQUIPMENT.
- (2) CITY WILL OPEN EXISTING PRIMARY SWITCH AND INSTALL GROUNDS ON TRANSFORMER FEEDER CONDUCTORS. CONTRACTOR INSTALL LOCKS, PERFORM WORK AT TRANSFORMER SECONDARY, NOTIFY CITY TO CLOSE, AND REMOVE LOCKS. CITY WILL CLOSE.
- (3) EXISTING TRANSFORMER. PUNCH KNOCKOUTS IN SIDE WALL OF SECONDARY COMPARTMENT. RUN TWO CONDUITS TO ATS. AT PROJECT COMPLETION, TIGHTLY CLOSE KNOCKOUTS WITH BOLTED-ON 1/8" ALUMINUM PLATE.
- (4) DISCONNECT BUILDING FEEDER FROM TRANSFORMER SECONDARY TO MCC. INSTALL LONGER FEEDER: 1-500 MCM PER PHASE 1-500 MCM NEUTRAL AND 1 #2 GROUND; RUN TO LOAD LUGS OF ATS AND TO NEW MAIN CB. LAND NEUTRAL ON TRANSFORMER BUSHING AND GROUND TO TRANSFORMER CASE.
- (5) 3-500 MCM, 1 #2 WHITE NEUTRAL, AND 1#2 BARE GROUND FROM TRANSFORMER TO NORMAL LUGS OF ATS.
- (6) 3-500 MCM, 1 #2 WHITE NEUTRAL, AND 1#2 BARE GROUND FROM GENERATOR TO EMERGENCY LUGS OF ATS; 4" RMC. INSTALL 1/2" RMC UNDER ARC OF 4" CONDUIT. BAND TOGETHER. RUN 8 #14 CONTROL AND ANNUNCIATION: ENGINE CONTROL; ENGINE PREALARM CONTACTS AND LOW FUEL LEVEL ALARM; ENGINE RUNNING CONTACT; 2 SPARES.
- (7) BOND NEUTRAL TO GROUND IN GENERATOR CONNECTION BOX.
- (8) PROVIDE CIRCUIT BREAKER WITH GENERATOR SET.
- (9) INSULATED NEUTRAL BAR.
- (10) 5/8" BY 10' COPPER-CLAD STEEL GROUND ROD. DRIVE IN LANDSCAPE AREA. CONNECT TO GENERATOR FRAME WITH #2 IN EMT.
- (11) MOUNT AUTOMATIC TRANSFER SWITCH ON UNISTRUT.
- (12) LOOSEN HINGE BRACKETS AND RAISE GATE TO CLEAR NEW CONDUIT.
- (13) ANCHOR CONDUITS TO TRANSFORMER PAD WITH EPOXY-SET ANCHORS. COVER 16' LENGTH OF CONDUIT RUN WITH SANDBAGS AS SHOWN IN DETAIL. ANCHOR AT 8' AND 16' FROM PAD WITH DRIVEN BAR THAT HOOKS OVER CONDUITS.
- (14) EXISTING RECTIFIER BOX WITH FEEDER FROM PUMP STATION.
- (15) EXISTING CONDUIT FOR 12470 FEEDER. NOTE THAT THERE ARE OTHER PRIMARY UNDERGROUND CONDUITS THAT ARE NOT SHOWN.
- (16) EXISTING EVAPORATIVE AIR CONDITIONER SHALL REMAIN IN SERVICE.
- (17) EXISTING EVAPORATIVE AIR CONDITIONER: DISCONNECT WHILE GENERATOR IS IN SERVICE.
- (18) AIR CONDITIONER FEEDER RUNS THROUGH EXISTING, OUTSIDE WIRING GUTTER. EXTEND CONDUIT TO GENERATOR TRAILER FOR JACKET WATER HEATER AND BATTERY CHARGER. ON INSIDE OF WALL, TEMPORARILY DISCONNECT THE AIR CONDITIONER STARTER. IF PROPERLY SIZED, REUSE AIR CONDITIONER FEEDER; OTHERWISE REPLACE. EXTEND PROPERLY SIZED CIRCUIT TO GENERATOR TRAILER.
- (19) RUN EMT WITH STEEL RAINTIGHT CONNECTORS FROM GUTTER, ALONG BUILDING, ALONG LANDSCAPE AREA, AND TO TRAILER. ANCHOR TO CURB. COVER WITH SINGLE LAYER OF SANDBAGS FROM TRAILER TO CURB.
- (20) EXISTING 120/208 V PANELBOARD HAS EXISTING 20 A 3 POLE CB FOR EACH AIR CONDITIONER. CHANGE ONE BREAKER IF NECESSARY TO PROVIDE SERVICE TO GENERATOR TRAILER.
- (21) 3/4" EMT WITH RAINTIGHT CONNECTORS. RUN 12 #14 CONTROL TO RTU TB CABINET IN PUMP STATION: RTU REQUEST ENGINE START (ES1+/ES1-); ENGINE PREALARM CONTACTS AND LOW FUEL LEVEL ALARM (EAL+/EAL-); ENGINE RUNNING CONTACT (ER+/ER-); RTU REQUEST ATS TO EMERGENCY (AER+/AER-); ATS IN EMERGENCY CONTACT (EC+/EC-); 2 SPARES (SP1, SP2). MAKE ALL CONNECTIONS AT ATS AND TRAILER. MARK EACH CONDUCTOR WITH TEXT SHOWN IN RESPECTIVE PARENTHESIS. LEAVE 6' SPARE AT RTU TB. CITY WILL CONNECT AT RTU.

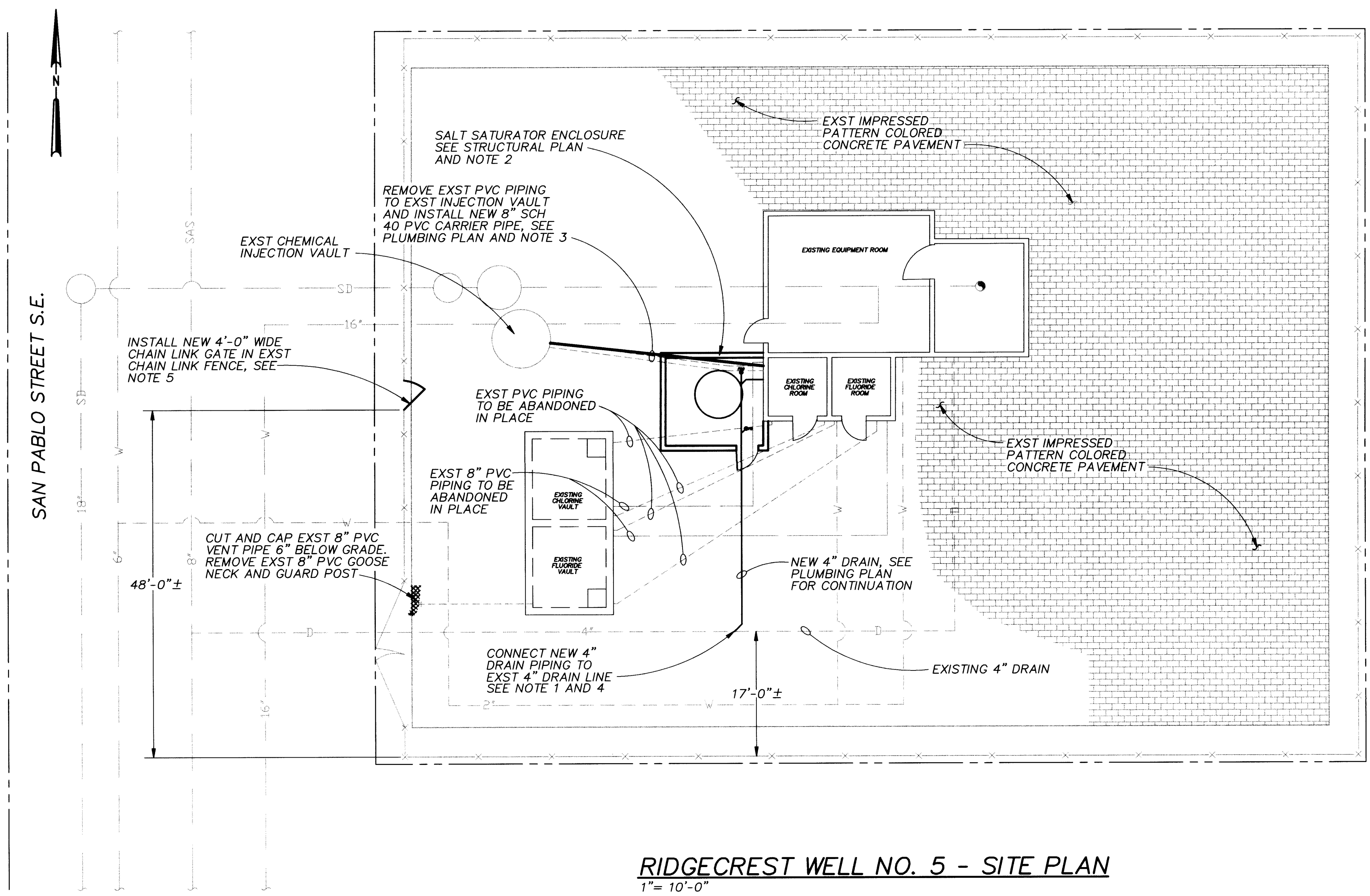
CITY PROJECT NO.	4800.90 4366.98	Zone Map No.	SHEET 14 OF 20 DRAWING NO. E-2
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Revisions Drawn by JGB Date 10/10/97

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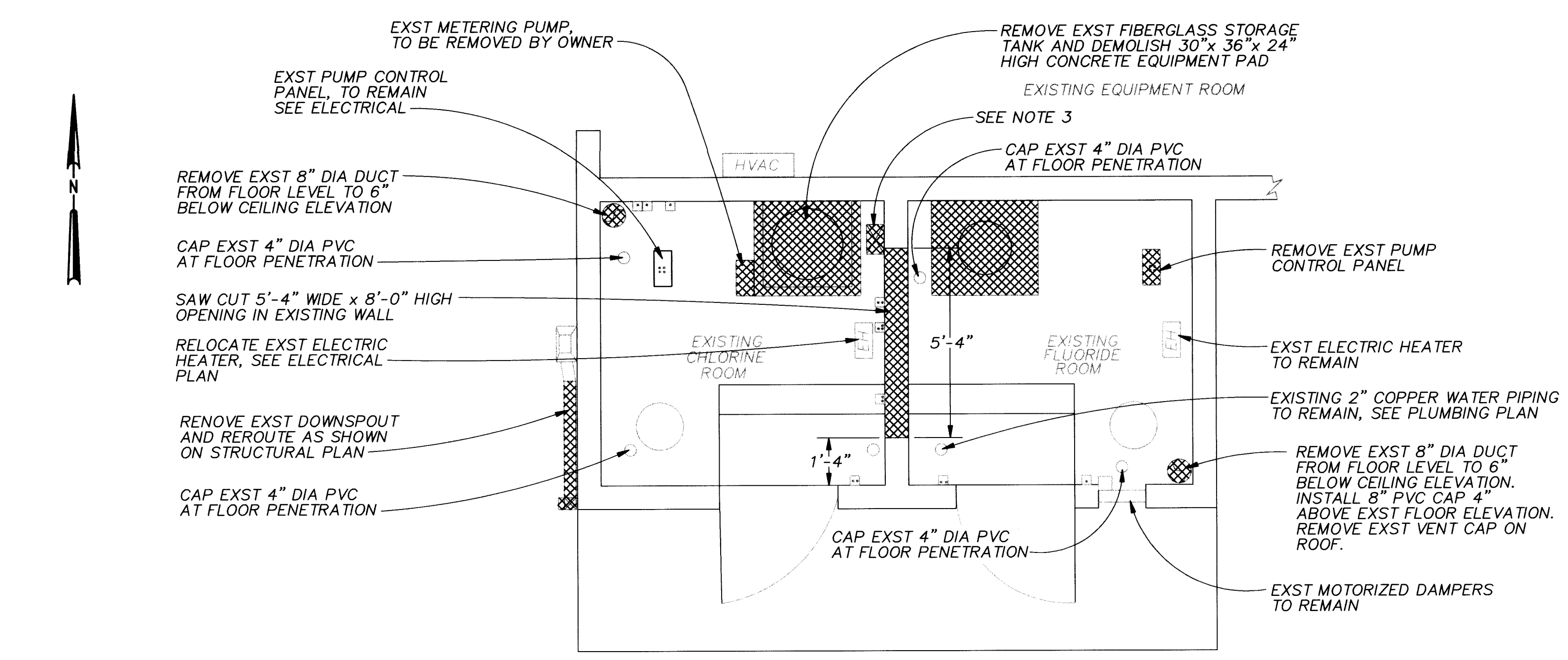
PROJECT ENGINEER: Arthur J. Stewart
DATE: 10/10/97

SCANNED BY
BY LASON



RIDGECREST WELL NO. 5 - SITE PLAN
1"= 10'-0"

- NOTES:
1. SAW CUT EXST IMPRESSED PATTERN, COLORED CONCRETE PAVEMENT AS REQUIRED FOR DRAIN LINE INSTALLATION. AFTER INSTALLATION OF THE NEW DRAIN LINE IS COMPLETE REPLACE CONCRETE PAVEMENT TO MATCH EXST CONDITIONS.
 2. SAW CUT EXST CONCRETE PAVEMENT AS REQUIRED FOR CONSTRUCTION OF THE NEW SALT SATURATOR ENCLOSURE.
 3. SAW CUT EXST IMPRESSED PATTERN, COLORED CONCRETE PAVEMENT AS REQUIRED FOR INSTALLATION OF THE NEW 8" SCH 40 PVC CARRIER PIPE TO THE EXST CHEMICAL INJECTION MANHOLE. AFTER INSTALLATION OF THE 8" PVC CARRIER PIPE IS COMPLETE REPLACE THE CONCRETE PAVEMENT TO MATCH EXST CONDITIONS.
 4. CONTRACTOR SHALL EXCAVATE AND VERIFY LOCATION AND INVERT ELEVATION OF EXST 4" DRAIN LINE PRIOR TO CONSTRUCTION OF NEW DRAIN PIPING.
 5. REMOVE SECTION OF EXISTING CHAIN LINK FENCE AND REPLACE WITH NEW 4'-0" WIDE CHAIN LINK GATE IN ACCORDANCE WITH CITY STD DWG 2252. HEIGHT AND MATERIALS OF THE NEW 4'-0" WIDE GATE SHALL MATCH EXISTING CHAIN LINK FENCE. LOCATION SHOWN IS APPROXIMATE. ACTUAL LOCATION SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.



RIDGECREST WELL NO. 5 - DEMOLITION PLAN
3/8"= 1'-0"

- NOTES:
1. PRIOR TO THE START OF WORK THE OWNER WILL REMOVE ALL SALVAGABLE EQUIPMENT AND FIXTURES. ALL ITEMS SHOWN TO BE REMOVED AND NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
 2. REMOVE ALL EXPOSED PIPING, VALVES AND APPURTENANCES ASSOCIATED WITH THE EXISTING CHEMICAL INJECTION SYSTEMS.
 3. REMOVE EXST 10"x 6" EXHAUST DUCT FROM 12" ABOVE FLOOR ELEVATION TO 10"x 10" ROOF PENETRATION AND INSTALL CEILING GRILL. SEE HVAC PLAN.

APPROVAL OF RECORD DRAWINGS
PROJECT ENGINEER
DATE: 10/10/97

RECORD DRAWINGS
Revisions Drawn by: JGB Date: 10/10/97

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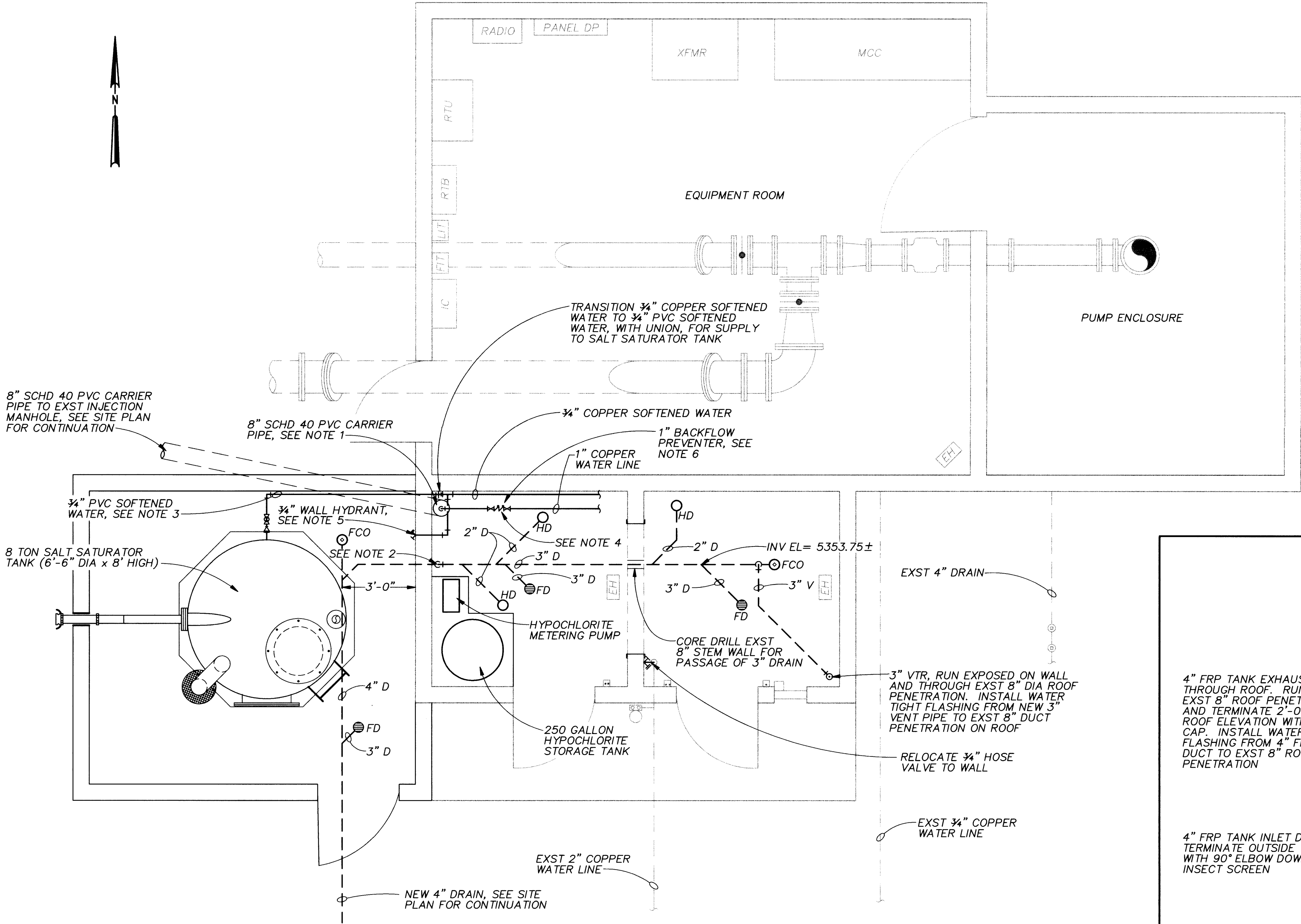
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6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP	
TITLE: RIDGECREST WELL NO. 5 DEMOLITION AND SITE PLAN	
Design Review Committee	City Engineer Approval
CITY PROJECT NO. 4800.90	Zone Map No. SHEET 15 OF 20 L-19 DRAWING NO. RC5-1

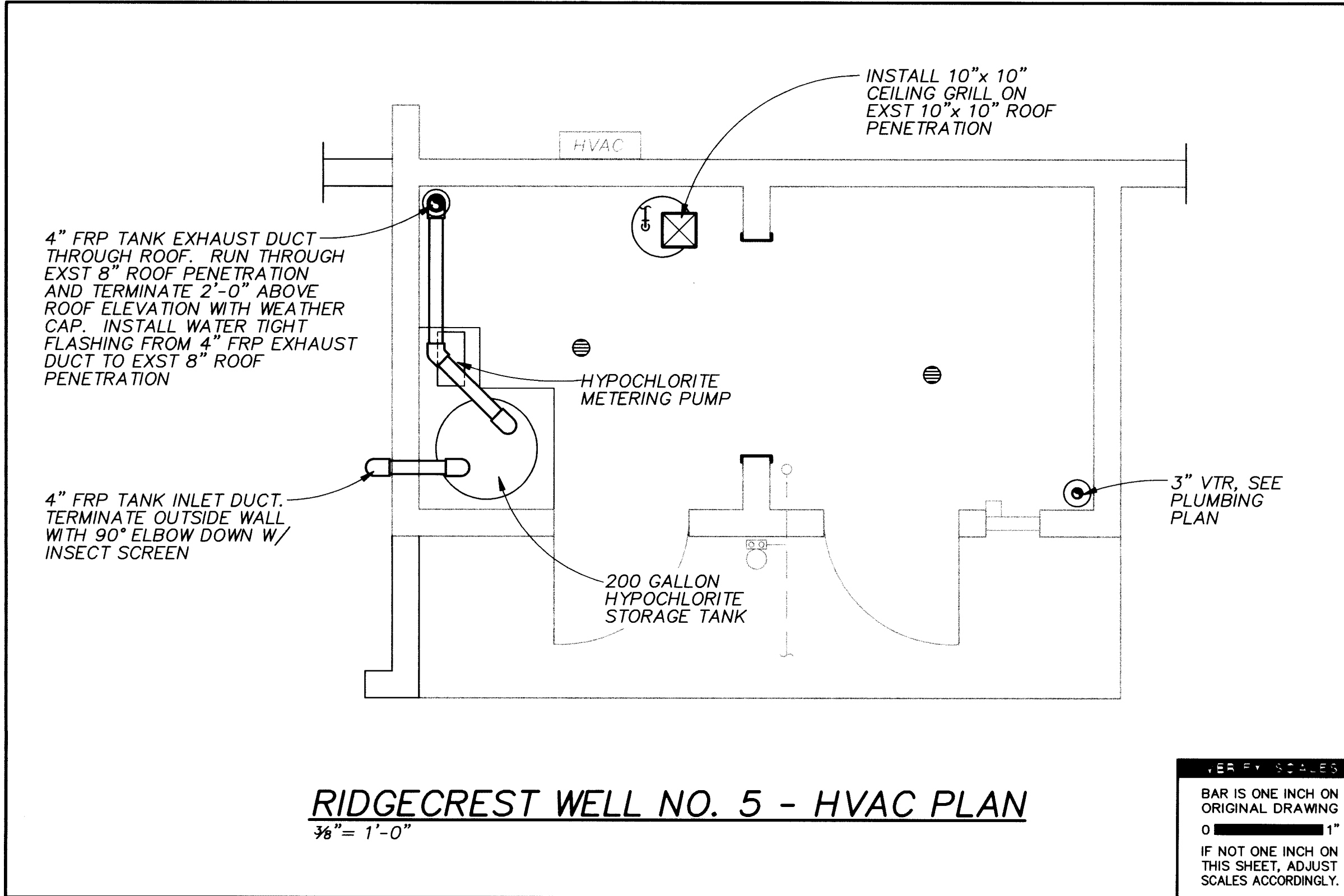
ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
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						STAMPED BY	DATE
						ACCEPTANCE BY	DATE
						FIELD ACCEPTANCE BY	DATE
						DRAWINGS	DATE
						CORRECTED BY	DATE
						MICRO FILM INFORMATION	DATE
						RECORDED BY	DATE
						NO.	DATE



RIDGECREST WELL NO. 5 - PLUMBING PLAN
3/8" = 1'-0"

NOTES:

- BREAK OUT EXST 8" THICK FLOOR SLAB PRIOR TO PLACEMENT OF CONCRETE FILL. INSTALL NEW 8" SCHD 40 PVC CARRIER PIPE UP THROUGH FLOOR WITH 90° BEND AND TERMINATE CARRIER PIPE 1" ABOVE NEW FINISH FLOOR ELEVATION. INSTALL 1/2" FLEXIBLE TUBING FROM METERING PUMP DISCHARGE TO EXST CHEMICAL INJECTION VAULT. PROVIDE 6'-0" FREE LENGTH OF 1/2" TUBING INSIDE INJECTION VAULT FOR FINAL CONNECTION BY OWNER.
- BREAK OUT EXST 8" THICK FLOOR SLAB PRIOR TO PLACEMENT OF CONCRETE FILL AND INSTALL 3" DRAIN WITH 90° FITTING DOWN TO INVERT EL = 5350.25±.
- 3/4" PVC SOFTENED WATER PIPING EXPOSED WITHIN THE SALT SATURATOR ENCLOSURE SHALL BE HEAT TRACED AND INSULATED AS SPECIFIED.
- PIPE BACKFLOW PREVENTER AIR GAP DRAIN ASSEMBLY TO HUB DRAIN.
- CORE DRILL EXST CMU WALL FOR NEW 3/4" SOFTENED WATER LINE AND INSTALL NONFREEZE WALL HYDRANT. WALL HYDRANT SHALL BE NONFREEZE EXPOSED WITH CHROME PLATED FACE, INTEGRAL VACUUM BREAKER, BRONZE CASING, T-HANDLE KEY WITH 3/4-INCH INLET AND HOSE CONNECTION, FIGURE 5610 AS MANUFACTURED BY J.R. SMITH OR EQUAL.
- 1" BACKFLOW PREVENTER SHALL BE REDUCED PRESSURE TYPE WITH TWO CHECK VALVES, INDEPENDENT RELIEF BETWEEN THE VALVES, NRS ISOLATION GATE VALVES, TESTING COCK, IN ACCORDANCE WITH AWWA C511, RATED FOR 175-POUND CWP, MEETING THE REQUIREMENTS OF USC CROSS CONNECTION CONTROL LABORATORY; FEBCO MODEL 825Y WITH AIR GAP DRAIN ASSEMBLY.
- HUB DRAIN (HD) SHALL BE COATED CAST IRON REDUCING HUB ADAPTER WITH STANDARD CAST IRON HUB. HUB SHALL BE TWO SIZES LARGER THAN OUTLET.



RIDGECREST WELL NO. 5 - HVAC PLAN
3/8" = 1'-0"

APPROVAL OF RECORD
DRAWINGS
PROJECT ENGINEER:
Arthur J. Stewart
DATE: 10/10/97

RECORD DRAWINGS

Revisions Drawn by: JGB Date: 10/10/97
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SCANNED BY
BY LASON



CH2M HILL
6001 Indian School Rd, N.E.
Suite 350
Albuquerque, New Mexico
87110
(505) 884-5600

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: RIDGECREST WELL NO. 5
PLUMBING AND HVAC PLAN

Design Review Committee City Engineer Approval

Mo./Day/Yr.	Mo./Day/Yr.

CITY PROJECT NO. 4800.90 Zone Map No. L-19 SHEET 17 OF 20
DRAWING NO. RC5-3

