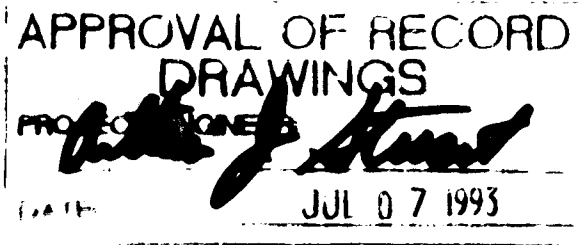
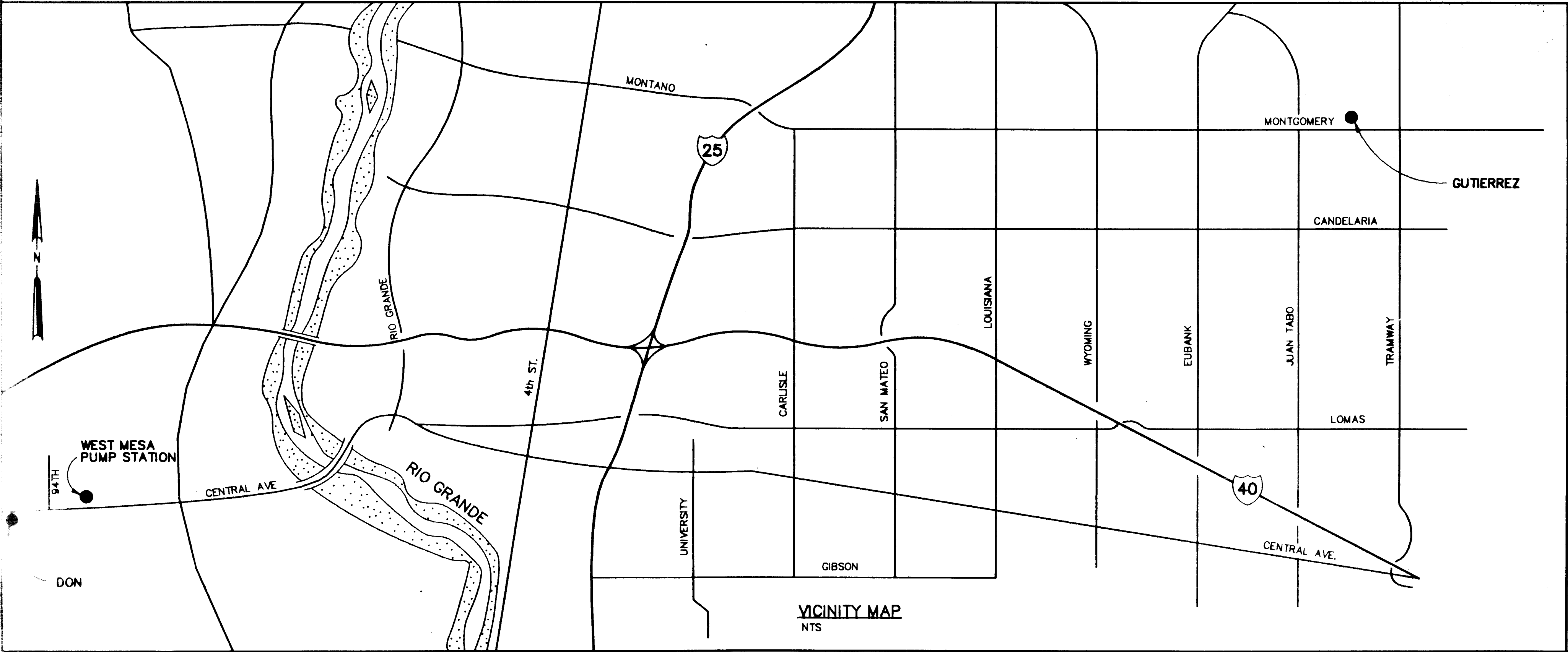


CITY OF ALBUQUERQUE
DON AND GUTIERREZ RESERVOIRS
WATER SYSTEM REHABILITATION

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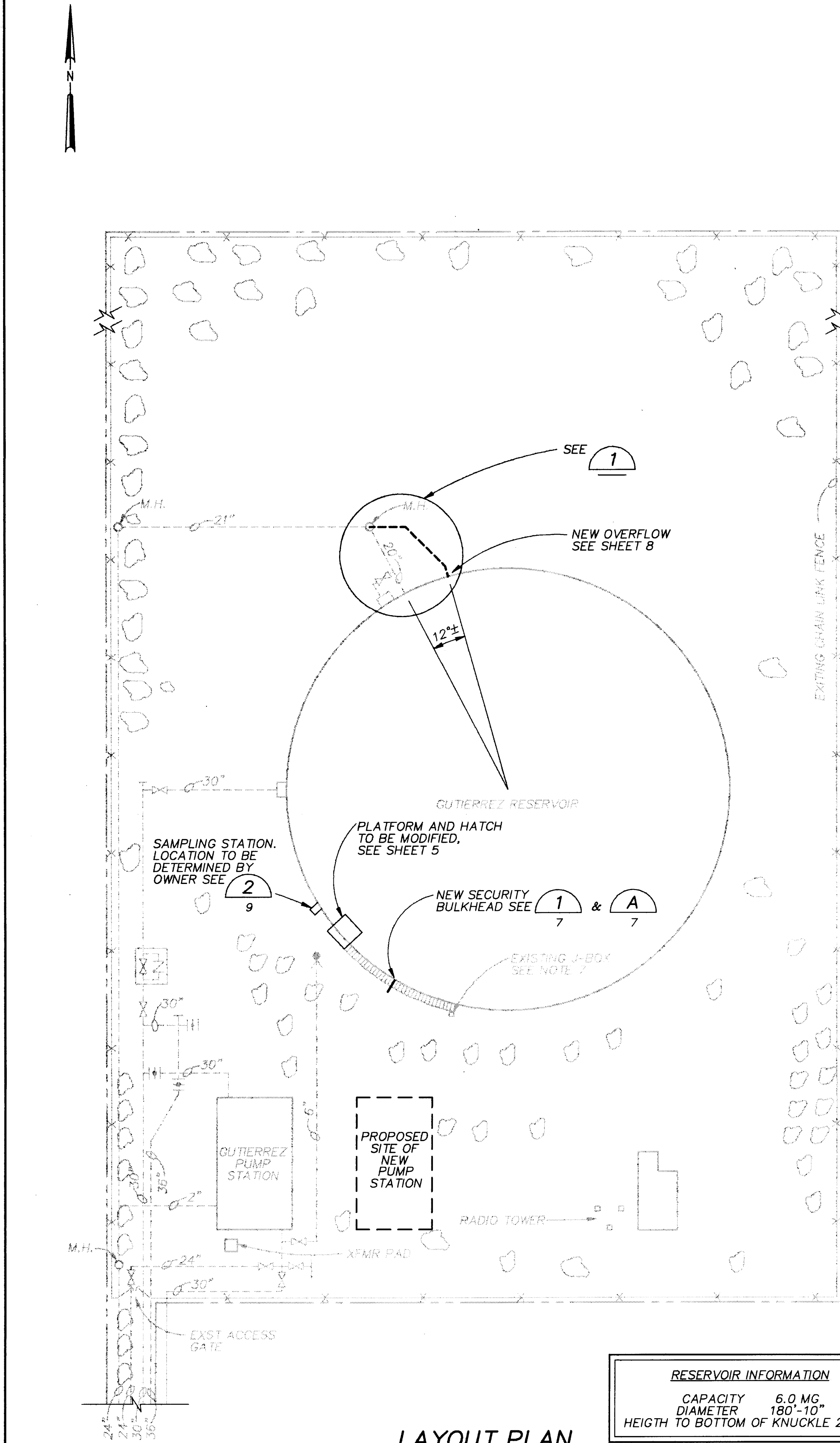
RECORD DRAWINGS

Revisions Drawn by C. O'NEIL Date 6-1-93
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.

26 4501.900194

SCANNED BY
BY LASON

REV	SHEETS	CITY ENGINEER	DATE	USER DEPT	DATE	USER DEPT	DATE
APPROVAL OF REVISIONS							
		 CH2M HILL 6121 Indian School Rd, NE Suite 122 Albuquerque, New Mexico 87110 (505) 884-5600		APPROVED FOR CONSTRUCTION 7/15/92 CE			
PROJECT NO.		4501.90		SHEET 1 OF 15			



LAYOUT PLAN
1"=30'

RESERVOIR INFORMATION	
CAPACITY	6.0 MG.
DIAMETER	180'-10"
HEIGHT TO BOTTOM OF KNUCKLE	29'-0"

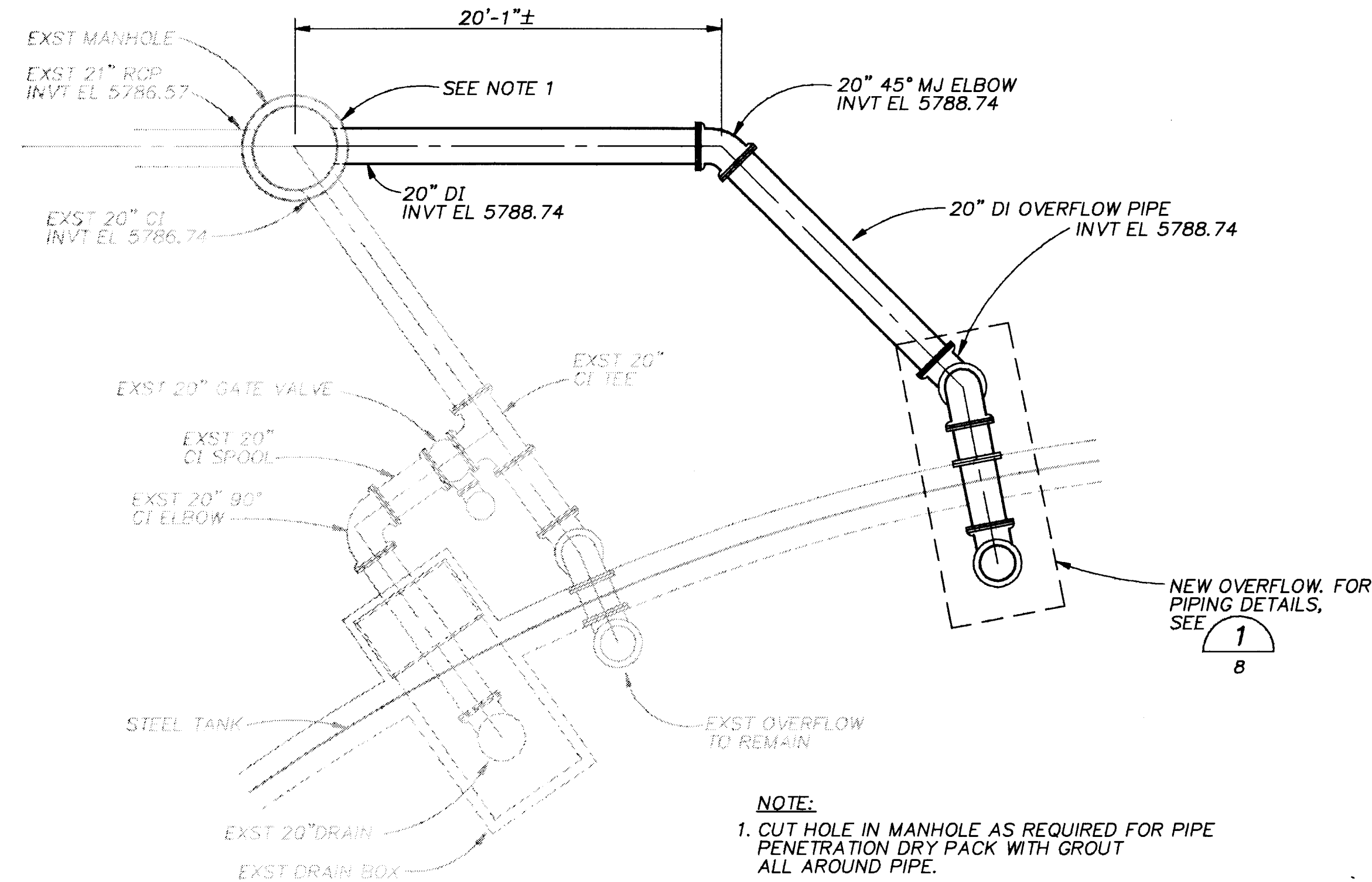
- GENERAL NOTES:
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, PIPE SIZES AND TYPES PRIOR TO FABRICATION. SOME INTERFERENCES MAY EXIST BETWEEN NEW AND EXISTING MATERIALS. CONSULT ENGINEER FOR RESOLUTION OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
 - CONTRACTOR SHALL REMOVE ALL CATHODIC PROTECTION WIRES, ANODES AND CONDUIT. RECTIFIERS SHALL BE LEFT IN PLACE.
 - CONTRACTOR SHALL MAKE MODIFICATIONS TO THE RESERVOIR AS SHOWN AND SHALL COAT INTERIOR AND EXTERIOR SURFACES IN ACCORDANCE WITH THE SPECIFICATIONS.
 - 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 SHOWN.
 - 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 CONTRACT DOCUMENTS. THIS LAYOUT IS PROVIDED FOR GENERAL INFORMATION ONLY. ACTUAL LOCATIONS OF FACILITIES MAY VARY FROM THOSE SHOWN.
 - ITEMS REMOVED AS PART OF DEMOLITION WORK AND NOT SALVAGED BECOME PROPERTY OF CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST TO THE OWNER.
 - INSTALL A 1" GALV STL CONDUIT W/2,600V, 16 GAUGE TWISTED SHIELDED PAIR (1 SPARE) FROM THE WATERPROOF BOX ON TOP OF THE RESERVOIR SHOWN ON TO THE EXISTING J-BOX AT BOTTOM OF STAIRWAY. ROUTE CONDUIT ALONG STAIRWAY.
 - REMOVE AND REPLACE RESERVOIR FLOOR PLATE AS SPECIFIED, SEE 3/5
 - REMOVE ALL SHRUBS AND GRASS FROM THE PERIMETER OF THE RESERVOIR FOR A WIDTH OF 10 FT. GRADE THE AREA AROUND THE TANK FLAT UPON COMPLETION OF THE CONSTRUCTION ACTIVITIES.

ABBREVIATIONS

AT	BEARING	MT	MALE THREAD
BRG	CHANNEL	NTS	NOT TO SCALE
C	CONCRETE CYLINDER PIPE	OC	ON CENTER
COP	CAST IRON PIPE	OD	OUTSIDE DIAMETER
CI	CENTERLINE	PJF	PREMOLDED JOINT FILLER
CONT	CONTINUOUS	P	PLATE
CPLG	COUPLING	PP	POWER POLE
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DI	DUCTILE IRON PIPE	REQD	REQUIRED
DN	DOWN	SCH, SCHED	SCHEDULE
EA	EACH	SIM	SIMILAR
EF	EACH FACE	SST	STAINLESS STEEL
EW	EACH WAY	S x S	SOCKET BY SOCKET
EXST	EXISTING	STL	STEEL
FLG	FLANGE	T&B	TOP AND BOTTOM
GALV	GALVANIZED	TS	TUBE SHAPE
L	ANGLE	TYP	TYPICAL
MAX	MAXIMUM	V	VOLT
MB	MACHINE BOLT	W	WATER
MG	MILLION GALLON	W/	WITH
MH	MANHOLE	Ø	DIAMETER
MIN	MINIMUM		

LAYOUT PLAN LEGEND

---	EXISTING PIPING BELOW GRADE
---	EXISTING STRUCTURE
---	PROPERTY LINE
---	FENCE LINE
---	VALVE
---	TREES



DETAIL 1
3/16" = 1'-0"

RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-1-93

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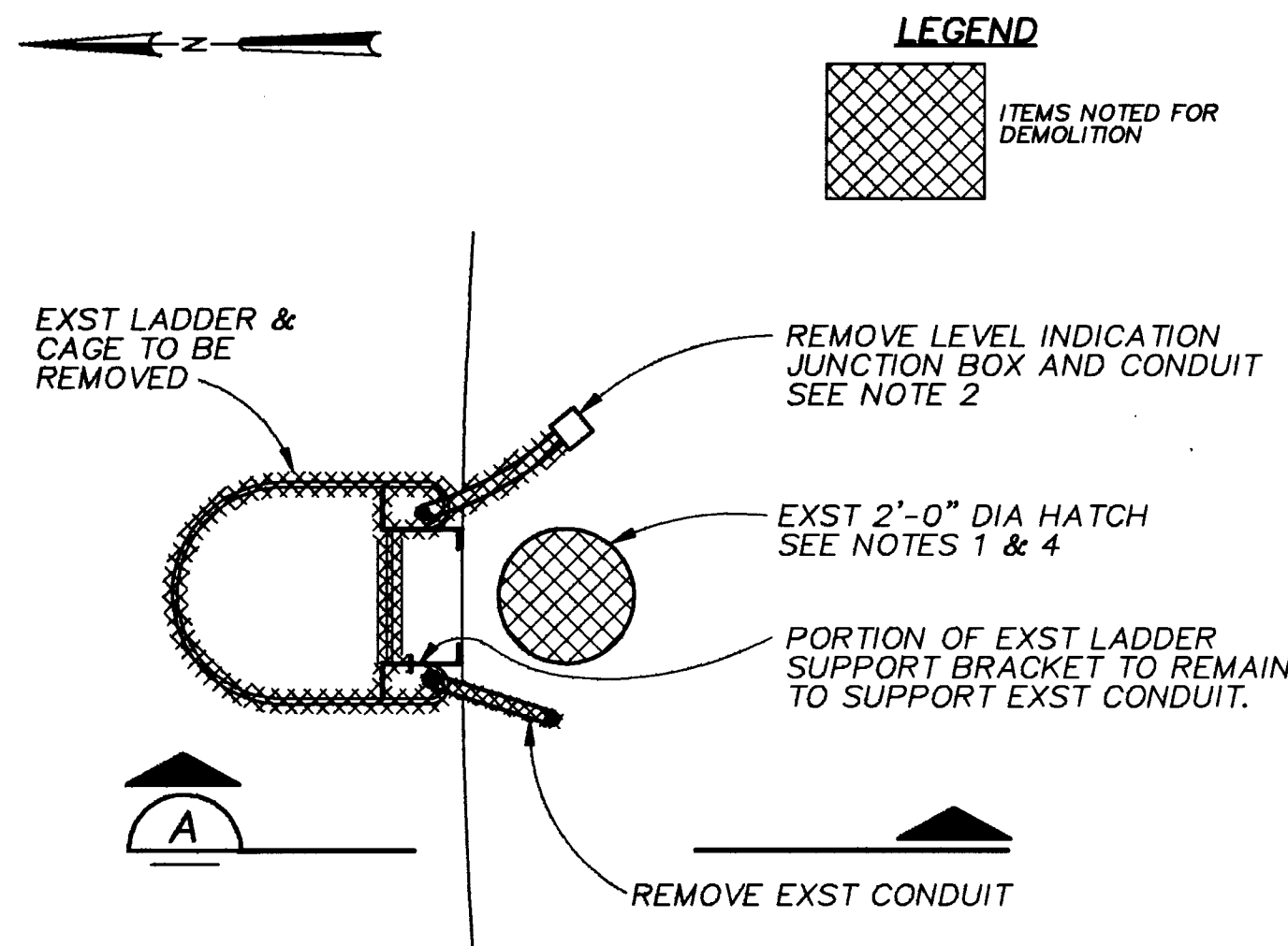
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26 4501.900394

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BY LASON



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS			
TITLE: GENERAL LAYOUT PLAN GUTIERREZ RESERVOIR			
APPROVALS	ENGINEER	DATE	APPROVALS
DRAWING NO. 21983C41		MAP NO. F-22	SHEET 3 OF 15



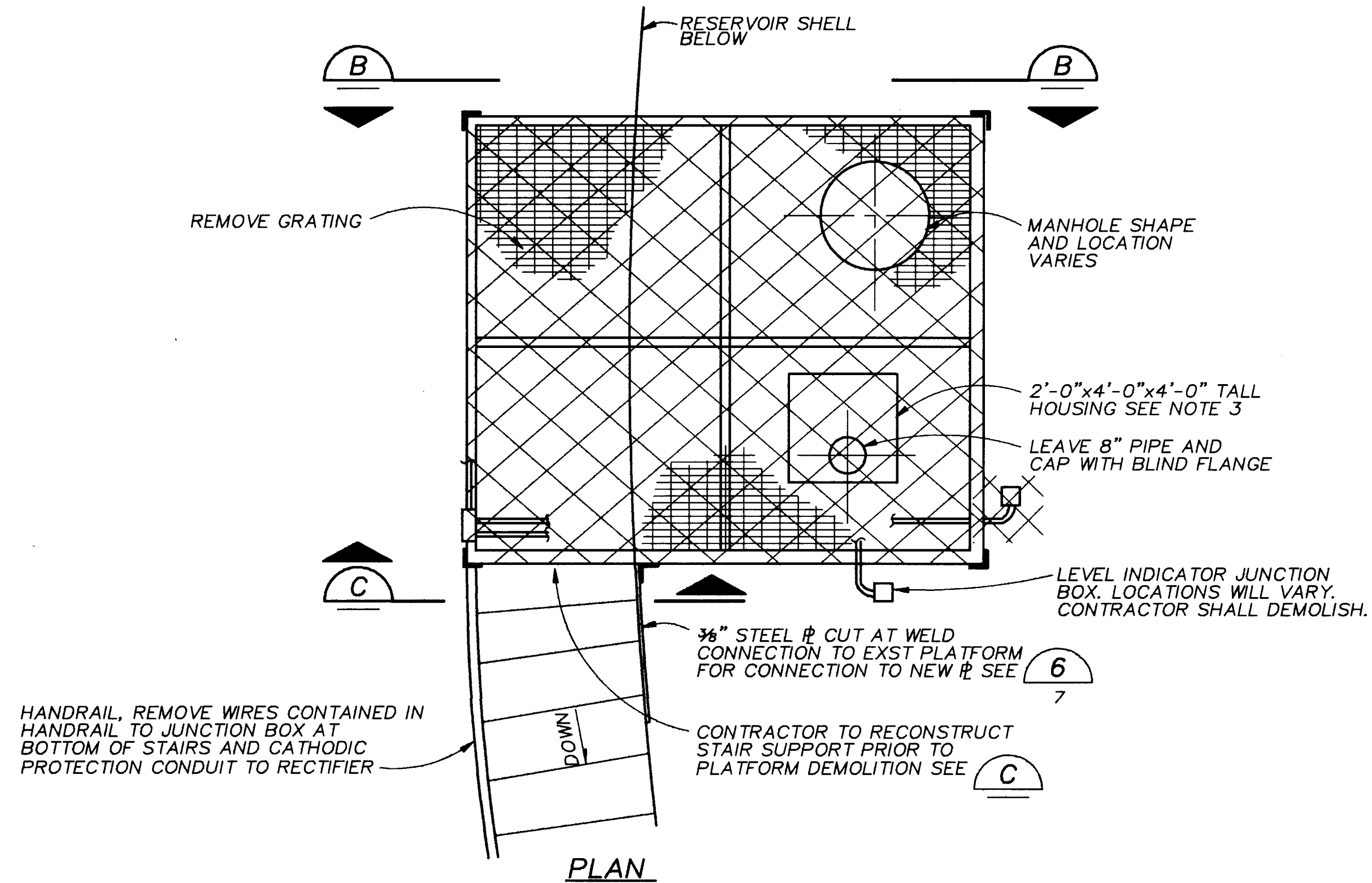
LADDER DEMOLITION PLAN AT DON RESERVOIR

1/4" = 1'-0"

NOTES:

1. CONTRACTOR TO GRIND ALL FLAME CUT EDGES ON RESERVOIR FLUSH WITH SHELL.
2. REMOVE OVERHEAD WIRE FROM PUMP STATION.
3. COVER HATCH HOLE WITH 1/4"x26"x2'-2" SEAL WELD INSIDE AND OUT.
4. CONTRACTOR SHALL SEAL ALL HOLES IN RESERVOIR ROOF W/1/4" STEEL # SEAL WELDED TO ROOF EXCEPT FOR ANODE ACCESS OPENINGS AND INSULATOR SUPPORT HOLES. SEE 2

2
6



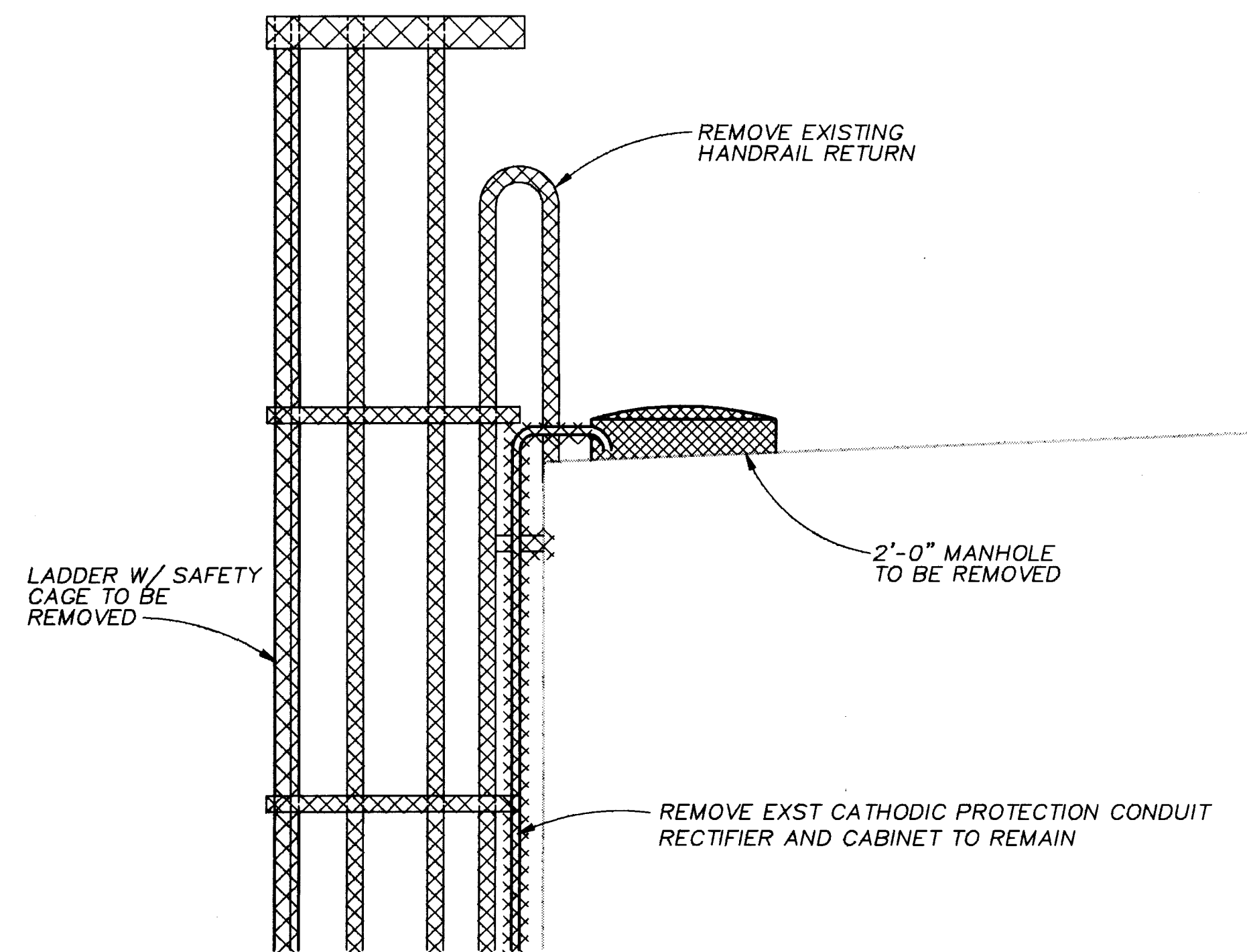
PLAN

NOTES:

1. SIZE AND CONFIGURATION OF EXISTING ROOF PLATFORMS MAY VARY. CONTRACTOR SHALL VISIT SITE AND INCLUDE VARIATIONS IN HIS DEMOLITION COSTS.
2. CONTRACTOR SHALL SEAL ALL HOLES IN RESERVOIR ROOF W/1/4" STEEL # SEAL WELDED TO ROOF EXCEPT FOR ANODE ACCESS OPENINGS AND INSULATOR SUPPORT HOLES. SEE 2
3. CONTRACTOR TO REMOVE HOUSING AND INSTRUMENTATION.
4. CONTRACTOR TO GRIND ALL FLAME CUT EDGES ON RESERVOIR FLUSH WITH SHELL.

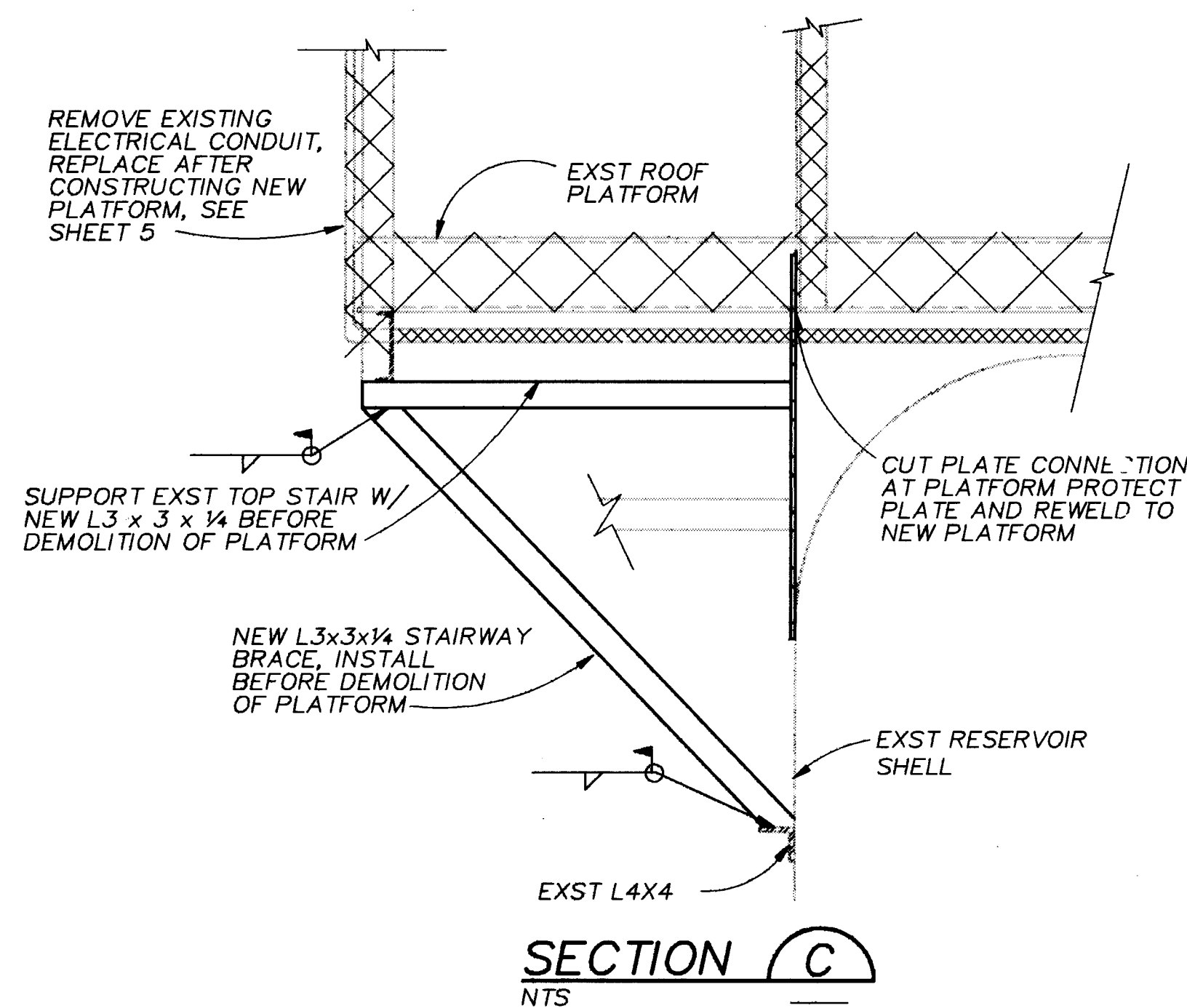
PLATFORM DEMOLITION PLAN GUTIERREZ RESERVOIR

NTS



SECTION A

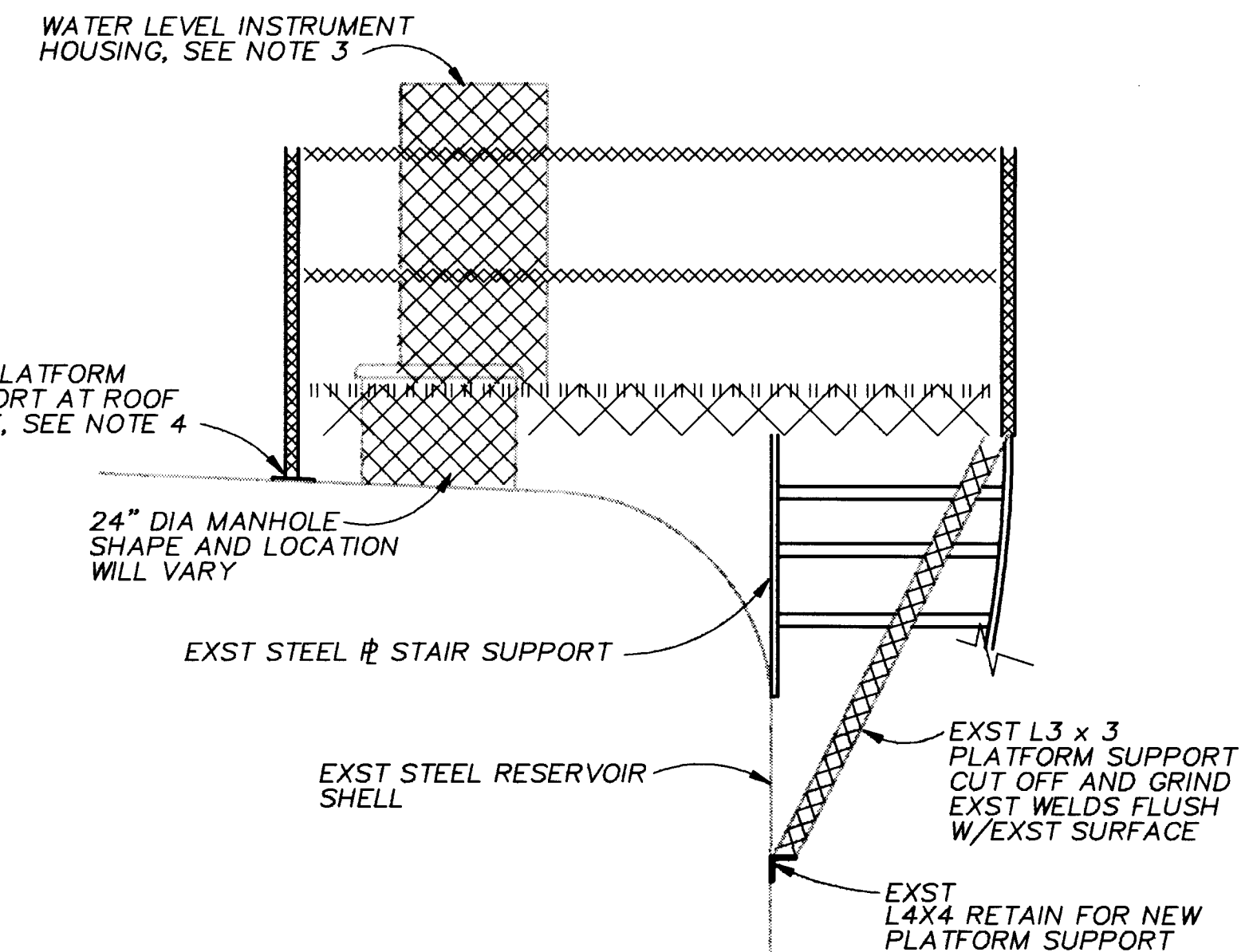
3/4" = 1'-0"



SECTION C

NTS

SCANNED BY LASON



SECTION B

NTS

RECORD DRAWINGS

Revisions Drawn by C. O'NEIL Date 6-1-93

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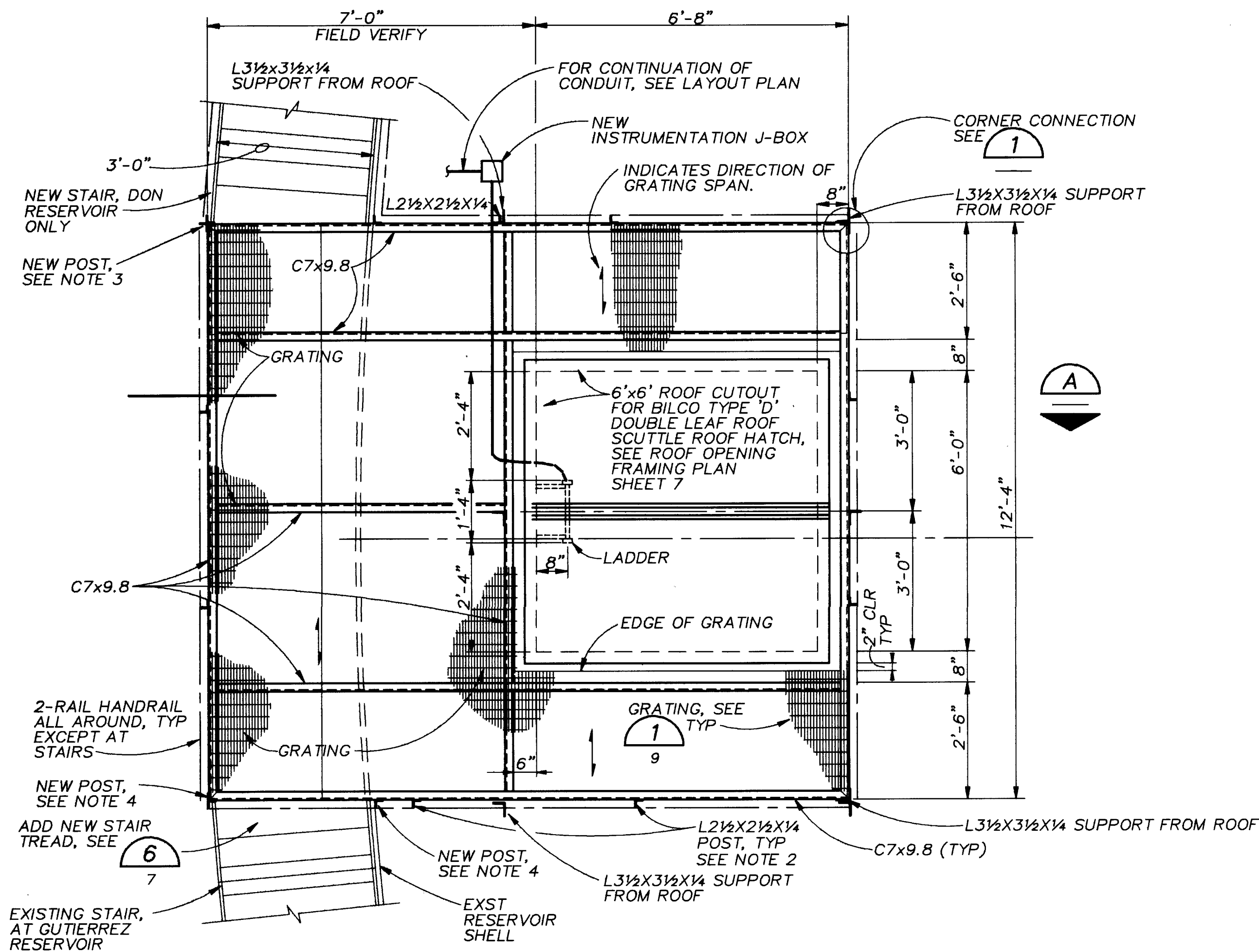
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS					
TITLE: ROOF PLATFORM DEMOLITION AND MODIFICATIONS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRAWING NO. 21983S40		MAP NO.		SHEET 4 OF 15	

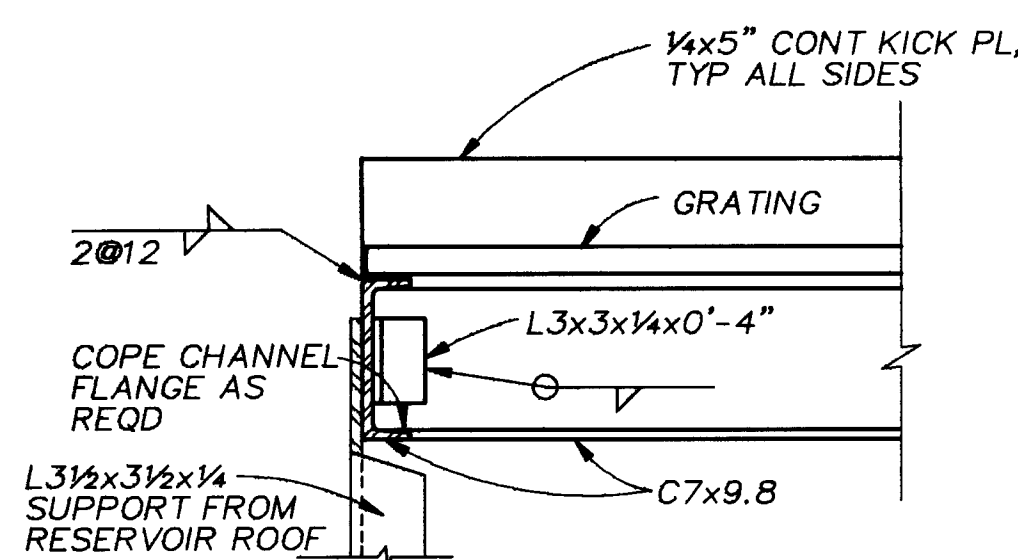


AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	NO.	DATE	BY	NO.	DATE	BY	REMARKS	DESIGN	REVISIONS
INSPECTOR'S	DATE										
FIELD	DATE										
VERIFICATION	DATE										
CORRECTED BY	DATE										
MICRO-FILM INFORMATION											
DATE			DATE			DATE			DATE		
RECORDED BY			NO.			DESIGNED BY	M. NANNINGA	DATE	JULY 1991	DRAWN BY	W. KENAS
						CHECKED BY	L. EICK	DATE	JULY 1991		

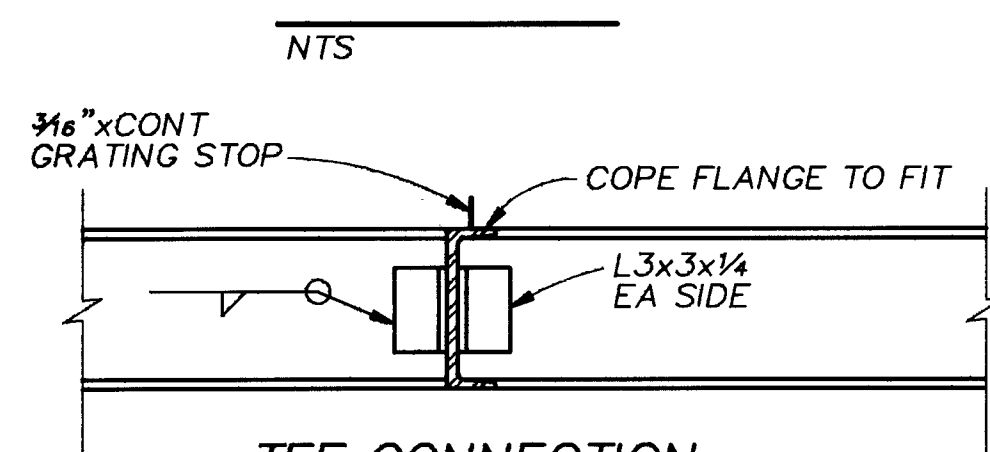


- NOTES:**
1. AT DON RESERVOIR CONTRACTOR SHALL SET ELEVATION OF TOP OF PLATFORM AS REQUIRED FOR C7 PLATFORM BEAMS TO CLEAR RESERVOIR ROOF. CONSTRUCT NEW STAIR TO MATCH, AT GUTIERREZ CONTRACTOR SHALL SET ELEVATION APPROXIMATELY 7 1/2" ABOVE NEW TOP STAIR TREAD.
 2. HANDRAIL POST SPACING SHALL NOT EXCEED 5'-0".
 3. AT DON RESERVOIR, CONNECT NEW STAIR RAILS TO NEW PLATFORM RAILS AT NEW L2 1/2 x 2 1/2 x 1/4 POST.
 4. AT GUTIERREZ RESERVOIR CONNECT EXST STAIR RAILS TO NEW L2 1/2 x 2 1/2 x 1/4 POST.

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

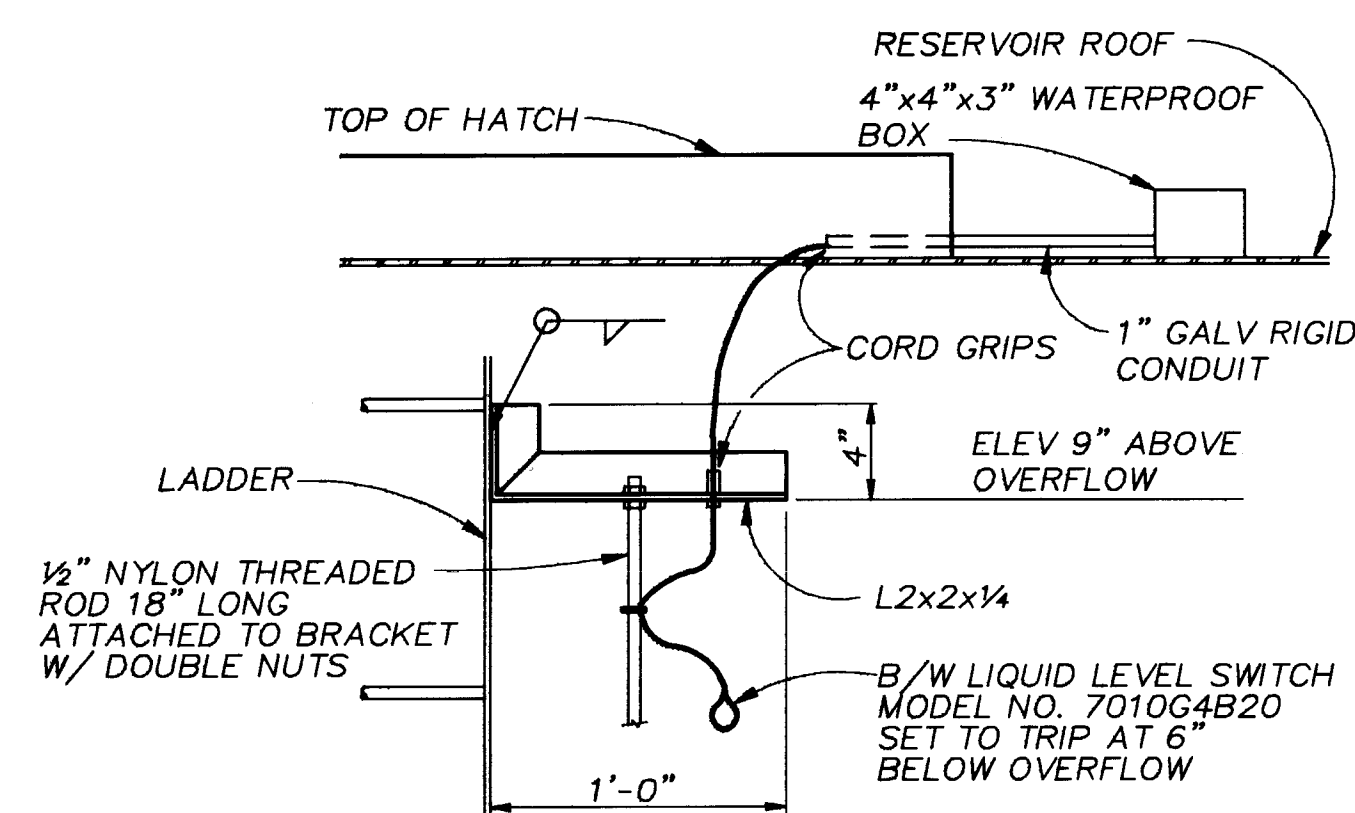


TYP FOR ALL PLATFORMS

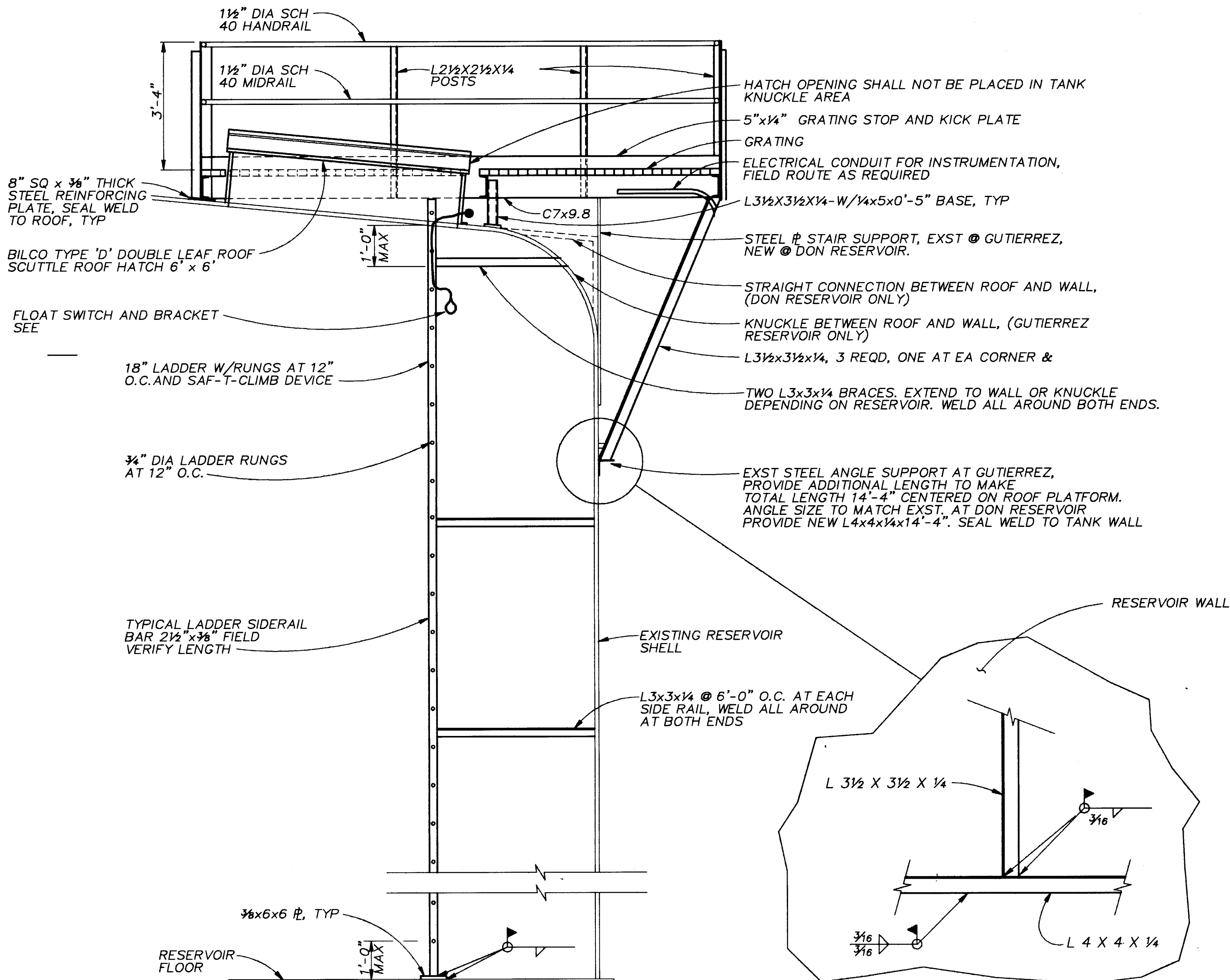


TEE CONNECTION
TYP FOR ALL PLATFORMS

DETAIL 2
NTS



DETAIL 3
NTS



SECTION
1/2"=1'-0"

ELEVATION
NTS

Anthony J. Stewart

RECORD DRAWINGS
Revisions Drawn by: C. O'NEIL Date: 6-1-93

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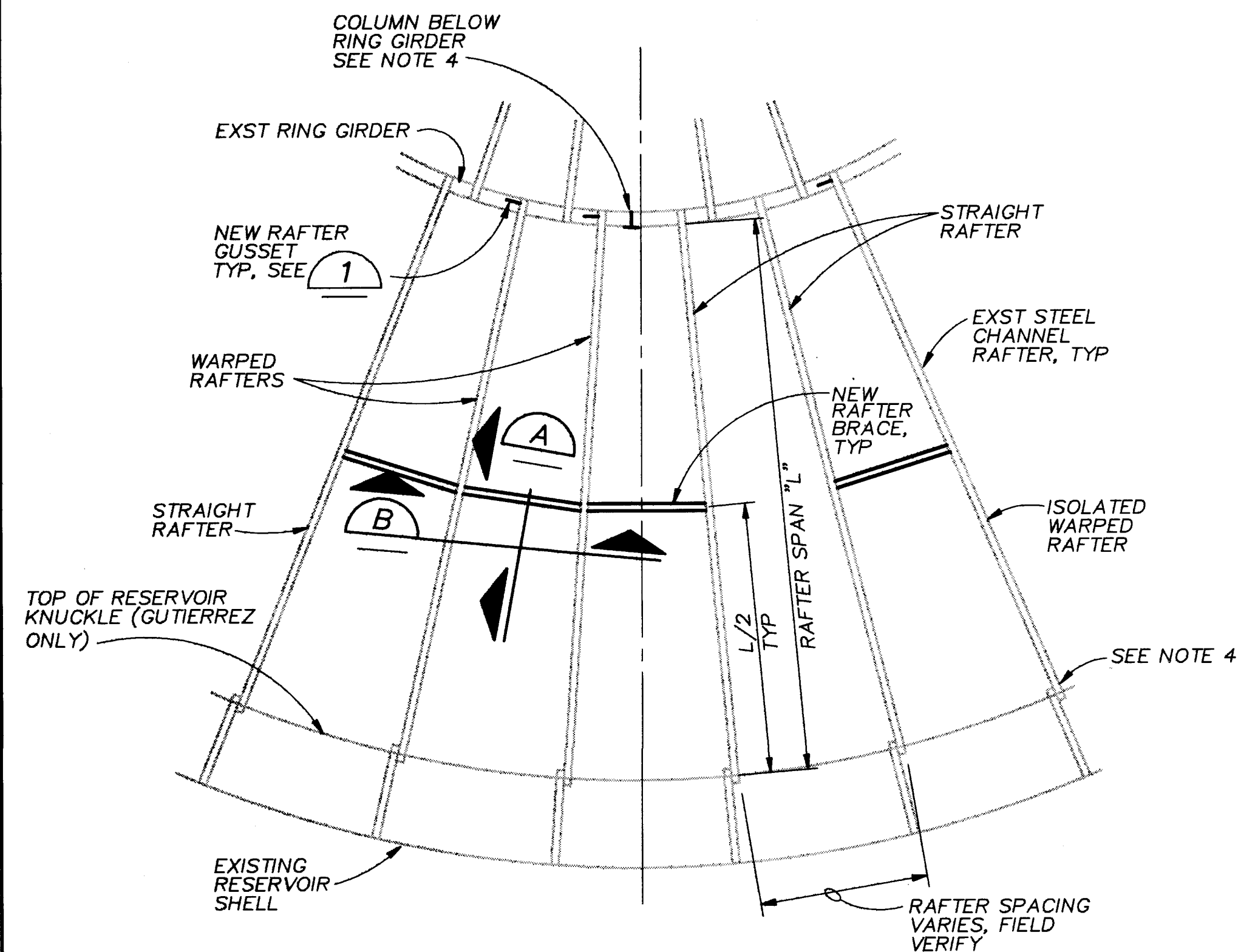
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6/1/93

SCANNED BY
BY LASON



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS					
TITLE: ROOF PLATFORM PLAN SECTIONS AND DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRAWING NO. 21983S41		MAP NO.		SHEET 5 OF 15	

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	REMARKS	DESIGN
STAMPED BY	DATE						
WORK							
FIELD							
ADJUSTMENT							
BY							
DRAWINGS							
CORRECTED BY							
MICRO-FILM INFORMATION							
DESIGNED BY: M. NANNINGA DATE: JULY 1991							
DRAWN BY: W. KENAS DATE: JULY 1991							
CHECKED BY: L. EICK DATE: JULY 1991							

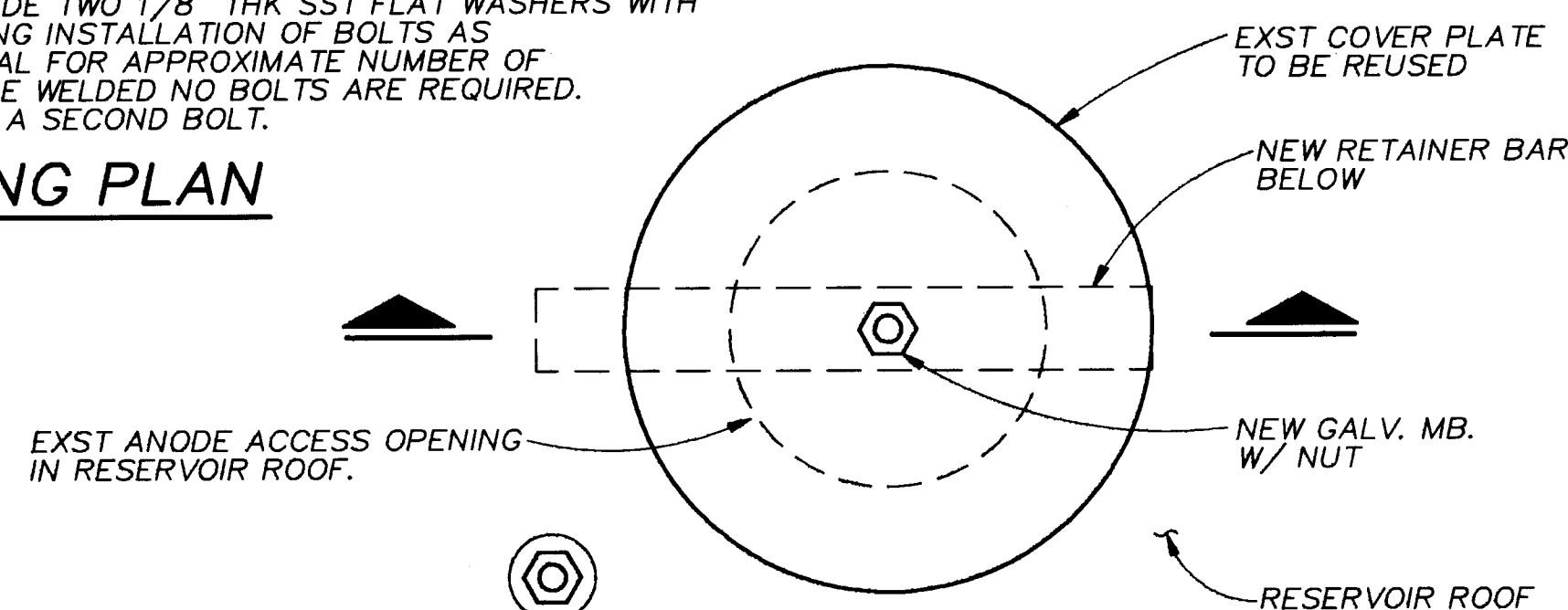


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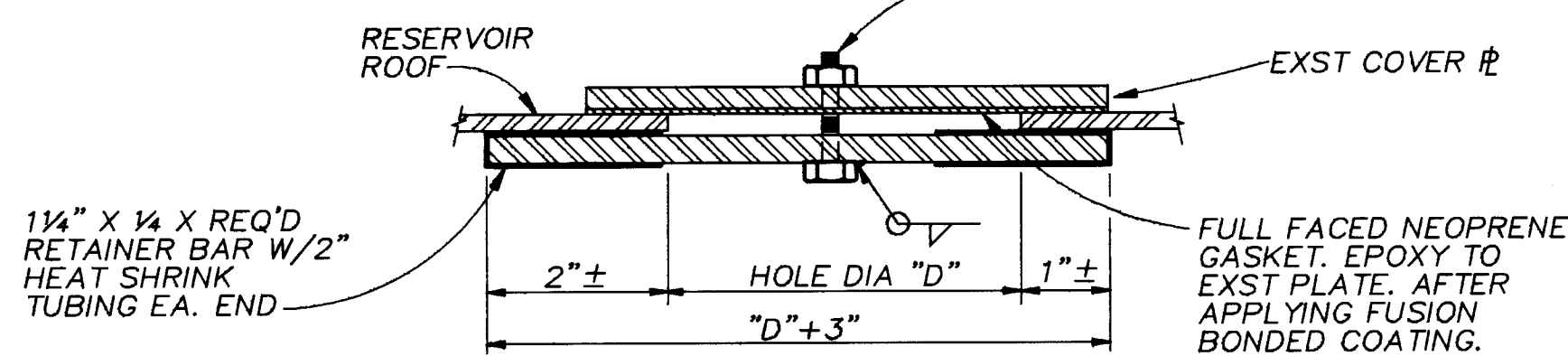
1. RAFTERS REQUIRING BRACING IN ACCORDANCE WITH DETAILS SHOWN ON THIS SHEET SHALL BE VERIFIED AND IDENTIFIED IN THE FIELD BY THE ENGINEER. CONTRACTOR IS DIRECTED TO THE BID PROPOSAL FOR APPROXIMATE NUMBER OF RAFTERS REQUIRING BRACING. CONTRACTOR SHALL PROVIDE LIFT SCISSORS ACCESS FOR ENGINEER TO INSPECT 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.
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" THK 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.

RAFTER BRACING PLAN INSTALLATION

NTS



PLAN



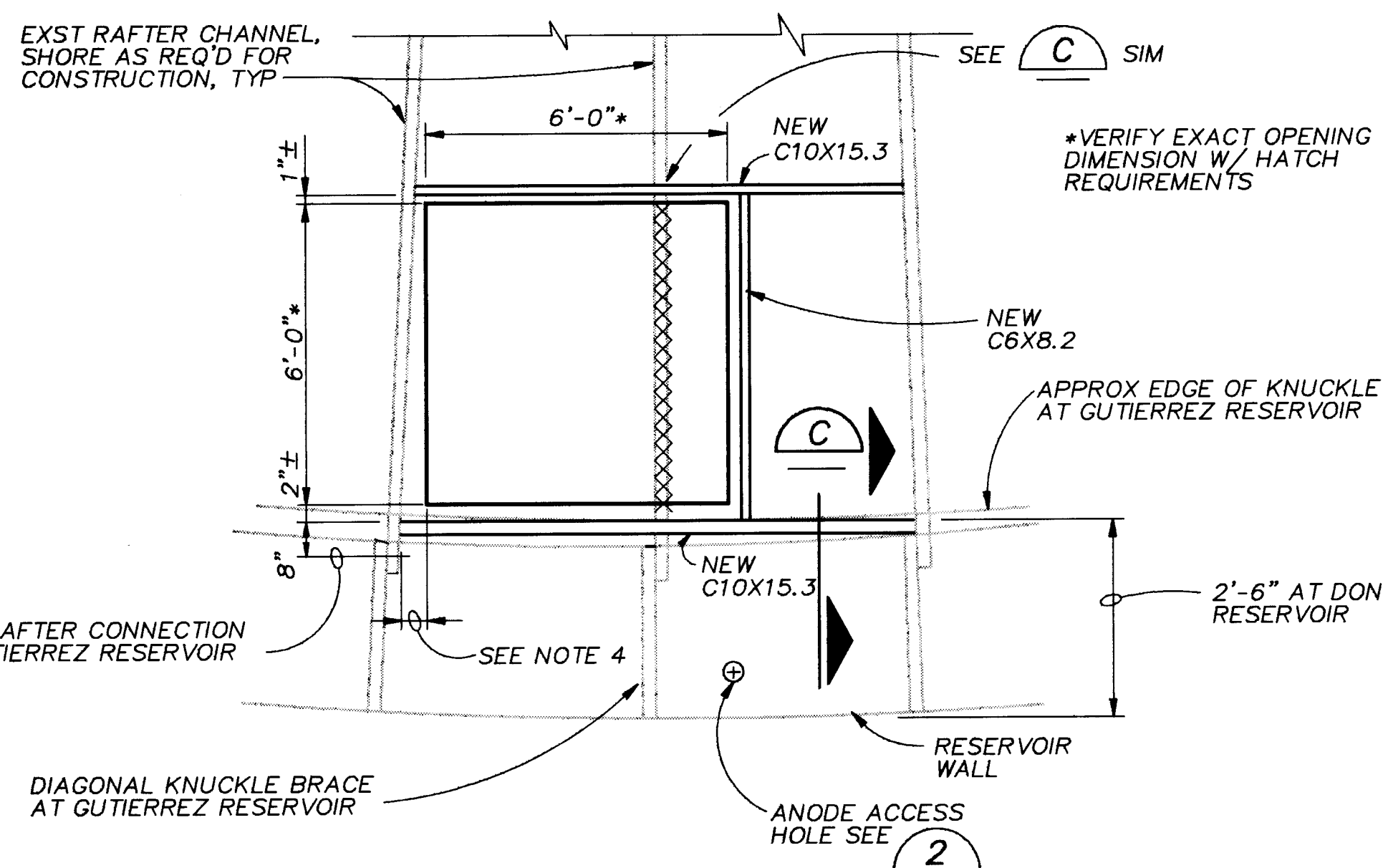
SECTION

NOTES:

1. REMOVE EXST RETAINER BAR AND BOLT AND REPLACE W/NEW BAR AND W/NEW BOLT. AS SHOWN.
2. REMOVE EXST GASKET FROM COVER PLATE.
3. APPLY FUSION BONDED COATING (SYSTEM NO.29) TO COVER PLATE & RETAINER BAR W/ BOLT. MASK THREADS ON BOLT PRIOR TO FUSION BONDING.
4. APPLY HEAT SHRINK TUBING ON EACH END OF RETAINER BAR AND EPOXY GASKET. TO COVER PLATE.
5. INSTALL COVER PLATE W/RETAINER BAR AFTER ALL RESERVOIR PAINTING IS COMPLETE.
6. INSTALL 1/4" SST M.B. W/NUT & TWO SST WASHERS AND RUBBER GASKETS TO SEAL EXST INSULATOR SUPPORT BOLT HOLE. AFTER ALL RESERVOIR PAINTING IS COMPLETE. HOLES ARE LOCATED NEAR ACCESS HOLES IN RESERVOIR ROOF.

DETAIL 2

NTS

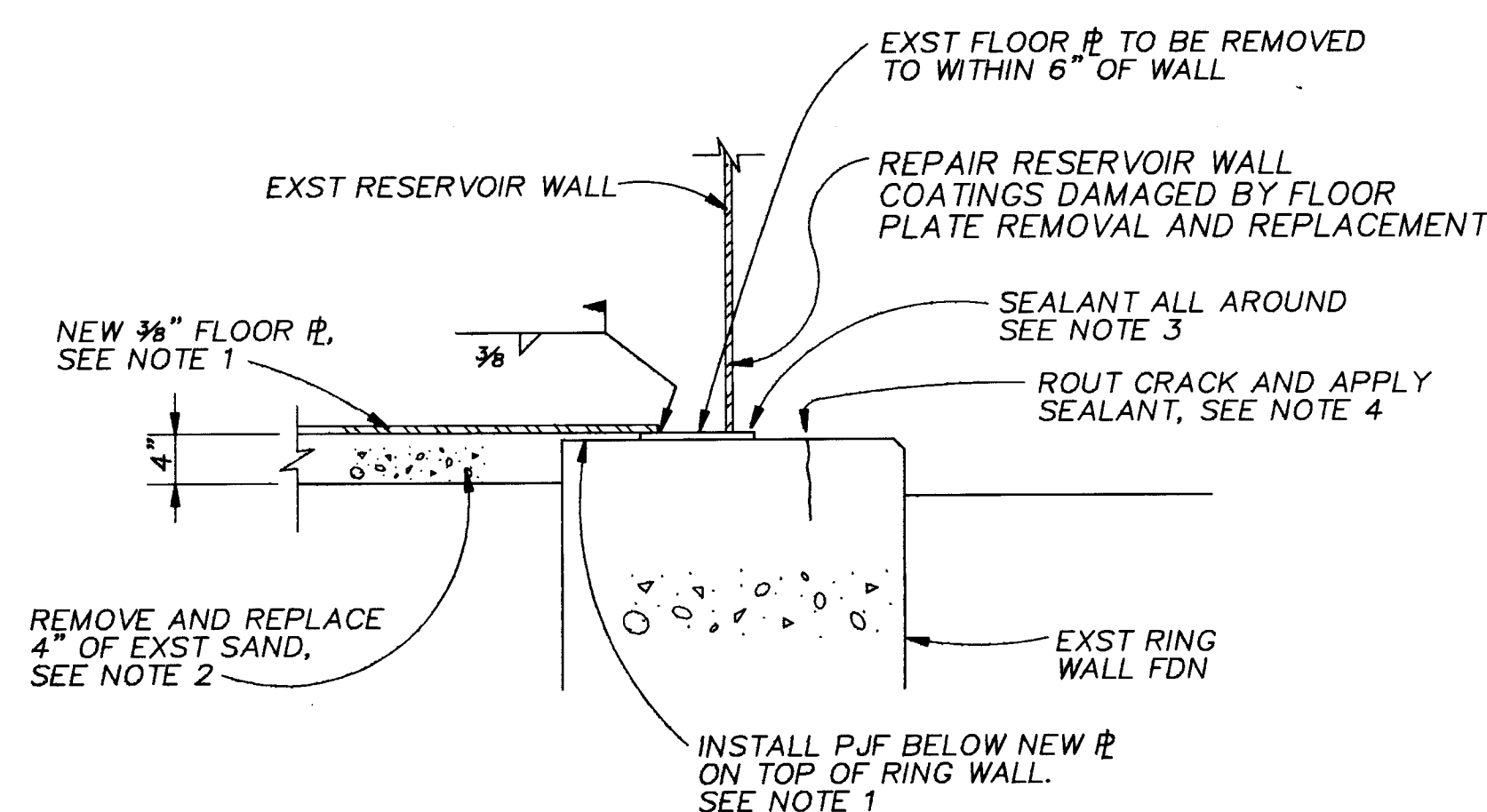


NOTES:

1. CONTRACTOR SHALL NOT CUT MORE THAN ONE RAFTER FOR ROOF OPENING. HATCH LOCATION SHALL BE SHIFTED BY CONTRACTOR AS REQUIRED FOR RAFTER CLEARANCE.
2. ROOF OPENING LOCATION SHOWN FOR MINIMUM RAFTER CLEARANCES ONLY.
3. ROOF OPENING SHALL NOT BE CUT INTO KNUCKLE AREA OF RESERVOIR. TEMPORARILY SUPPORT ROOF RAFTERS AS REQUIRED.
4. 6" MINIMUM. IF THIS DIMENSION EXCEEDS 1'-0", THEN PROVIDE C6x8.2 SUPPORT SIMILAR TO CHANNEL AT OPPOSITE SIDE OF OPENING.

ROOF HATCH OPENING FRAMING PLAN

NTS

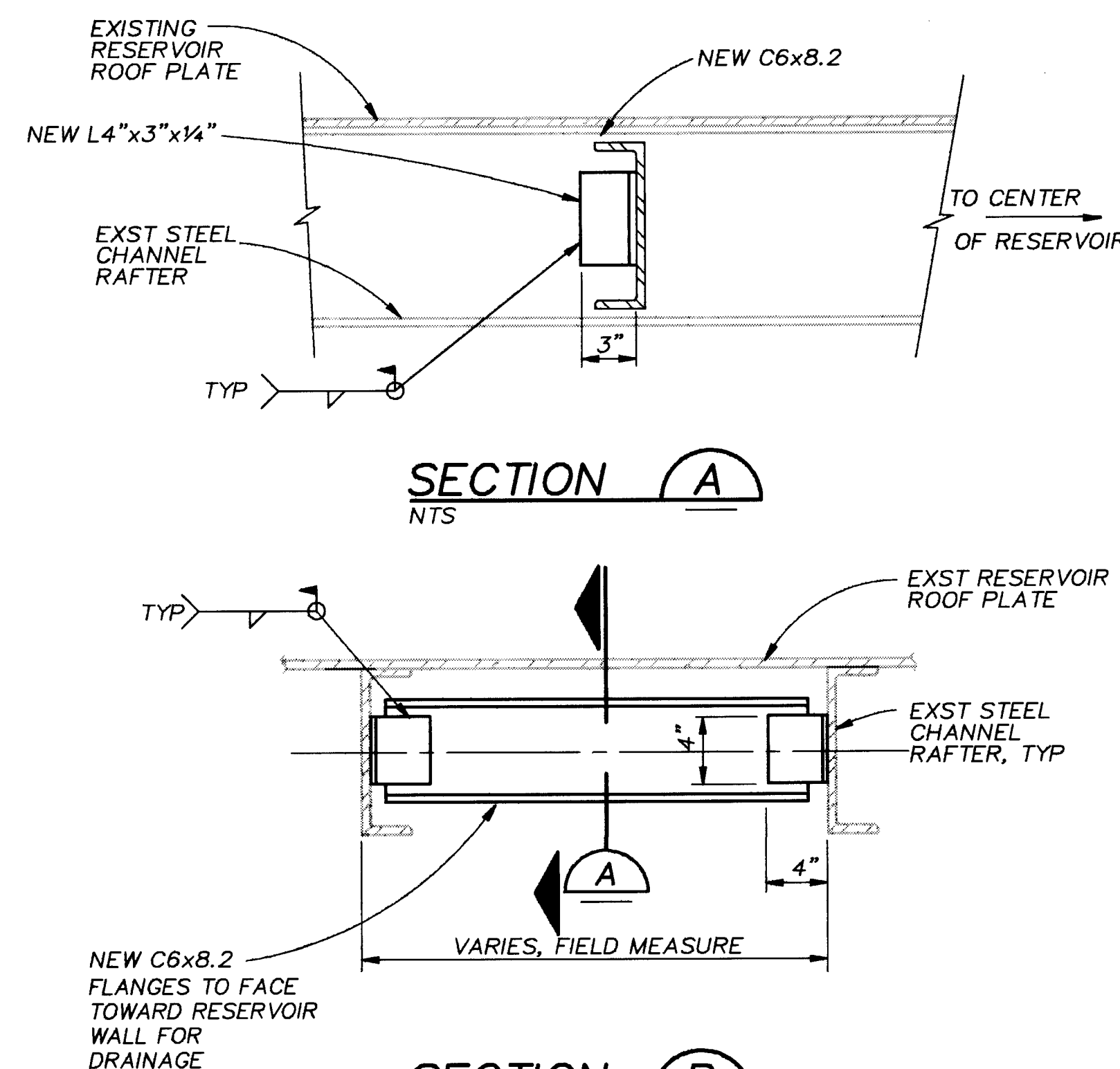


NOTES:

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 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 SEALANT. SEALANT SHALL BE SIKAFLEX-A1 OR EQUAL.

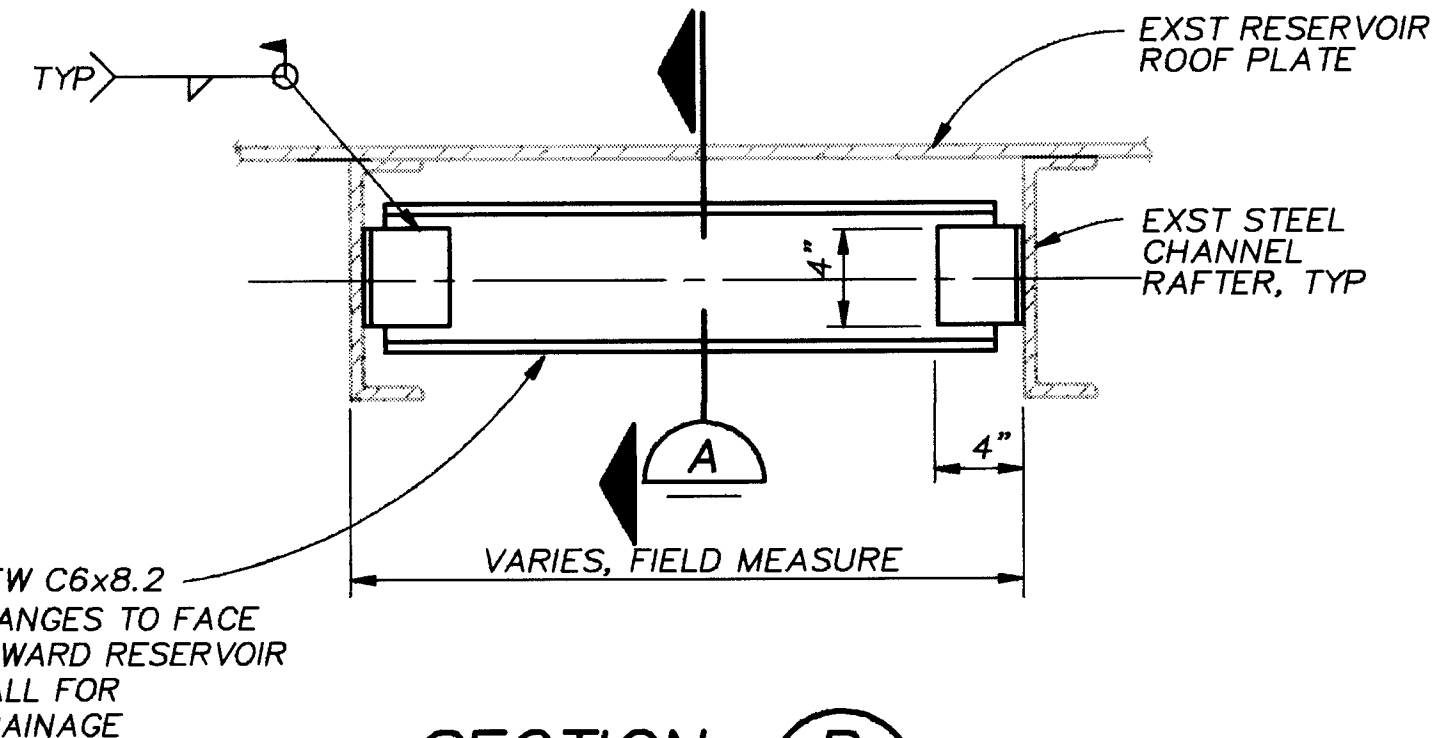
DETAIL 3

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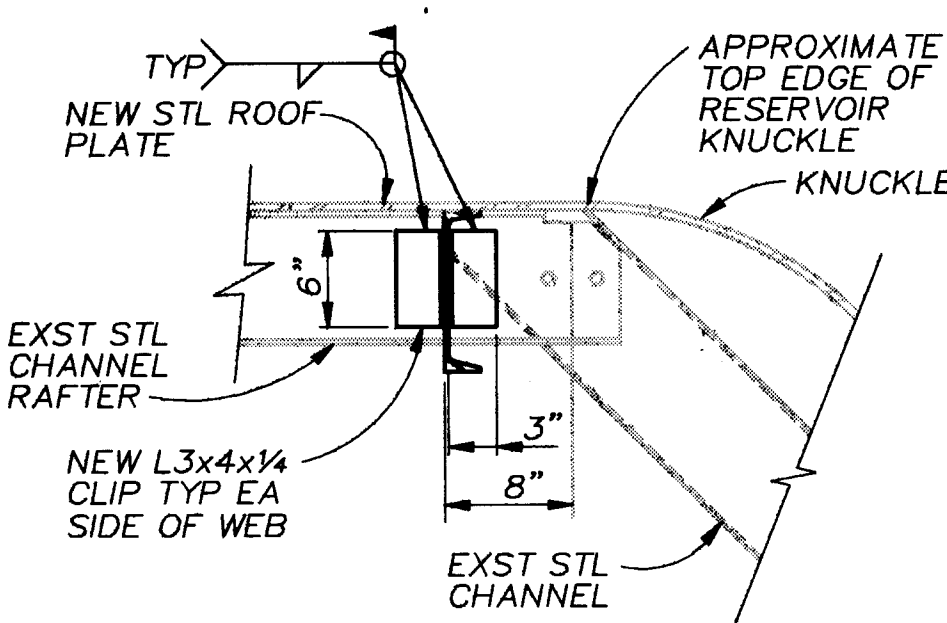
SECTION A

NTS



SECTION B

NTS



NOTES:

1. HEADER FLANGES TO FACE TOWARD RESERVOIR WALLS FOR DRAINAGE.
2. COPE ENDS OF HEADER CHANNEL FLANGES AS REQUIRED FOR FIT.

SECTION C

NTS

Antonia J. Stewart

RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-1-93

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6/1/93

DETAIL 1

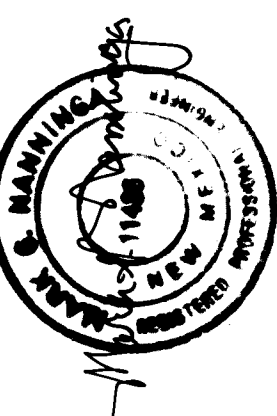
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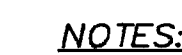


CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS					
TITLE: RESERVOIR REPAIR DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRAWING NO.	21983S43	MAP NO.		SHEET	6 OF 15

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	DATE	NO.	DATE
STANDARD	DATE						
INSPECTOR'S	DATE						
FIELD	DATE						
VERIFICATION	DATE						
CORRECTED	DATE						
MICRO-FILM INFORMATION							
RECORDED	DATE	NO.					



DESIGNED BY	M. NANNINGA	DATE	JULY 1991
DRAWN BY	W. KENAS	DATE	JULY 1991
CHECKED BY	L. EICK	DATE	JULY 1991



- STAIR ELEVATION  $\frac{3}{8}" = 1'-0"$ 2&3



- SECURITY BULKHEAD DETAIL 1
 $\frac{3}{8}" = 1'-0"$ 2&3



DON RESERVOIR STAIR DETAIL (2)
3/8" = 1'-0" 2



- STAIR TREAD DETAIL 3



- TREAD STIFFENER DETAIL 4




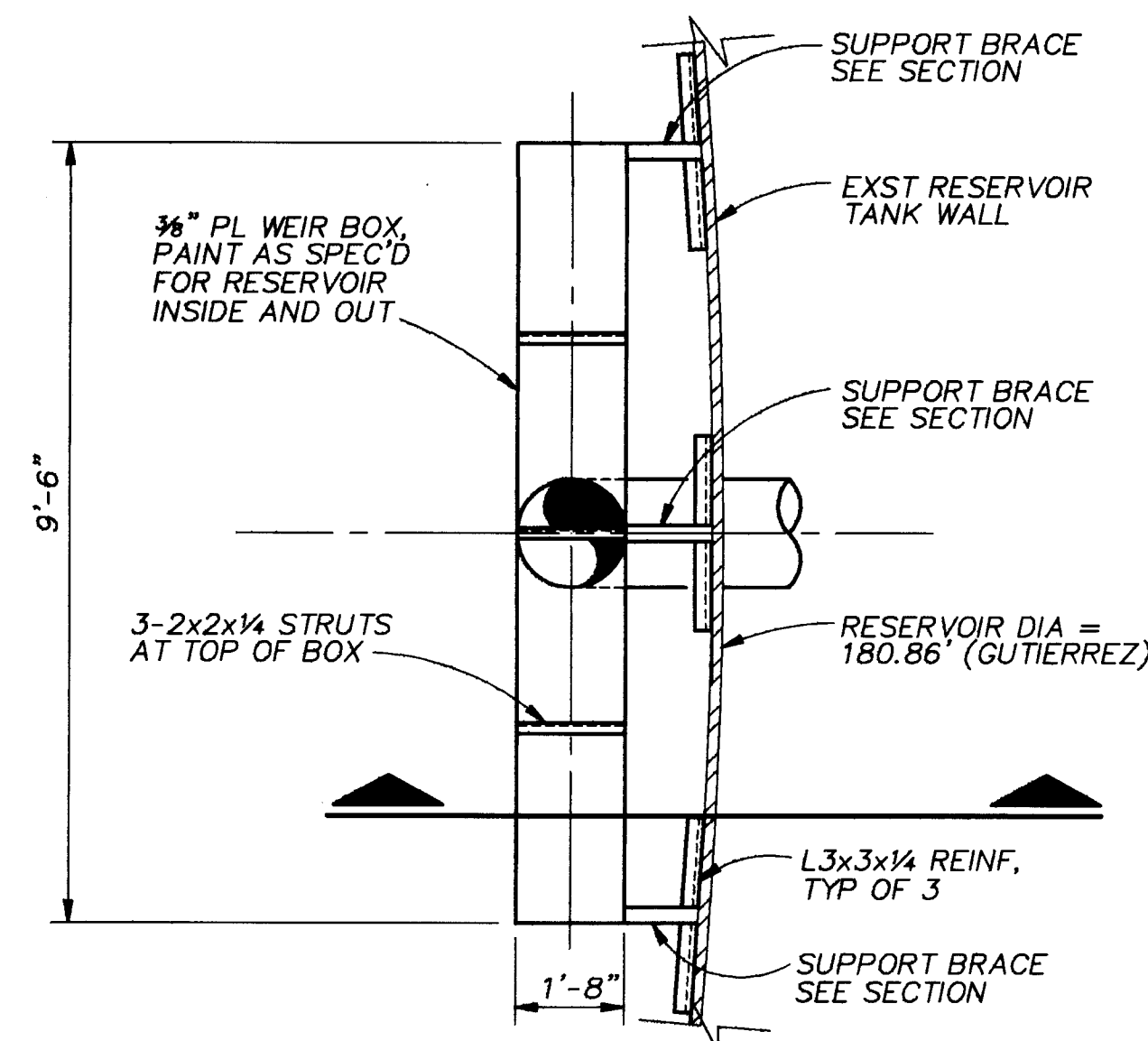
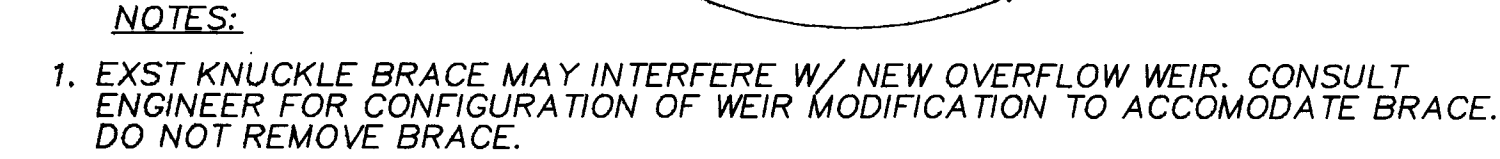
- STAIR EXTENSION DETAIL 6

RECORD DRAWINGS

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SHEET 7 OF 15		HEAD DETAILS		SERVOIRS		VISION		PARTMENT		ERQUE	
NO.	DATE	REMARKS	BY								
		DESIGN		DESIGNED BY	M. NANNINGA	DATE	JULY 1991				
		REVISIONS		DRAWN BY	W. KENAS	DATE	JULY 1991				
				ENGINEER'S SEAL							
											
				SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION			
				FIELD NOTES							
NO.		BY		DATE							
								CONTRACTOR			
								WORK			
								INSPECTED BY			
								DATE			
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								DATE			
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						RECORDED BY		DATE			
						NO.					



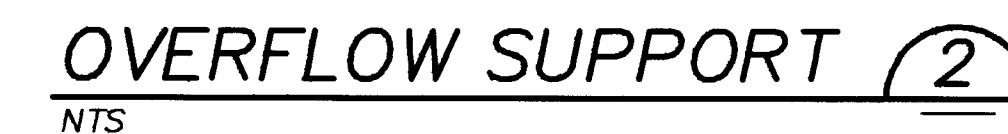
PLAN OVERFLOW DETAIL 1



TOP VIEW

DETAIL 3

NTS




Revisions Drawn by C. O'NEIL Date 6-1-93

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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.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
TITLE: DON AND GUTIERREZ RESERVOIRS			
OVERFLOW WEIR BOX DETAILS			
APPROVALS	ENGINEER	DATE	APPROVALS
DRAWING NO. 21983S45		MAP NO.	SHEET 8 OF 15

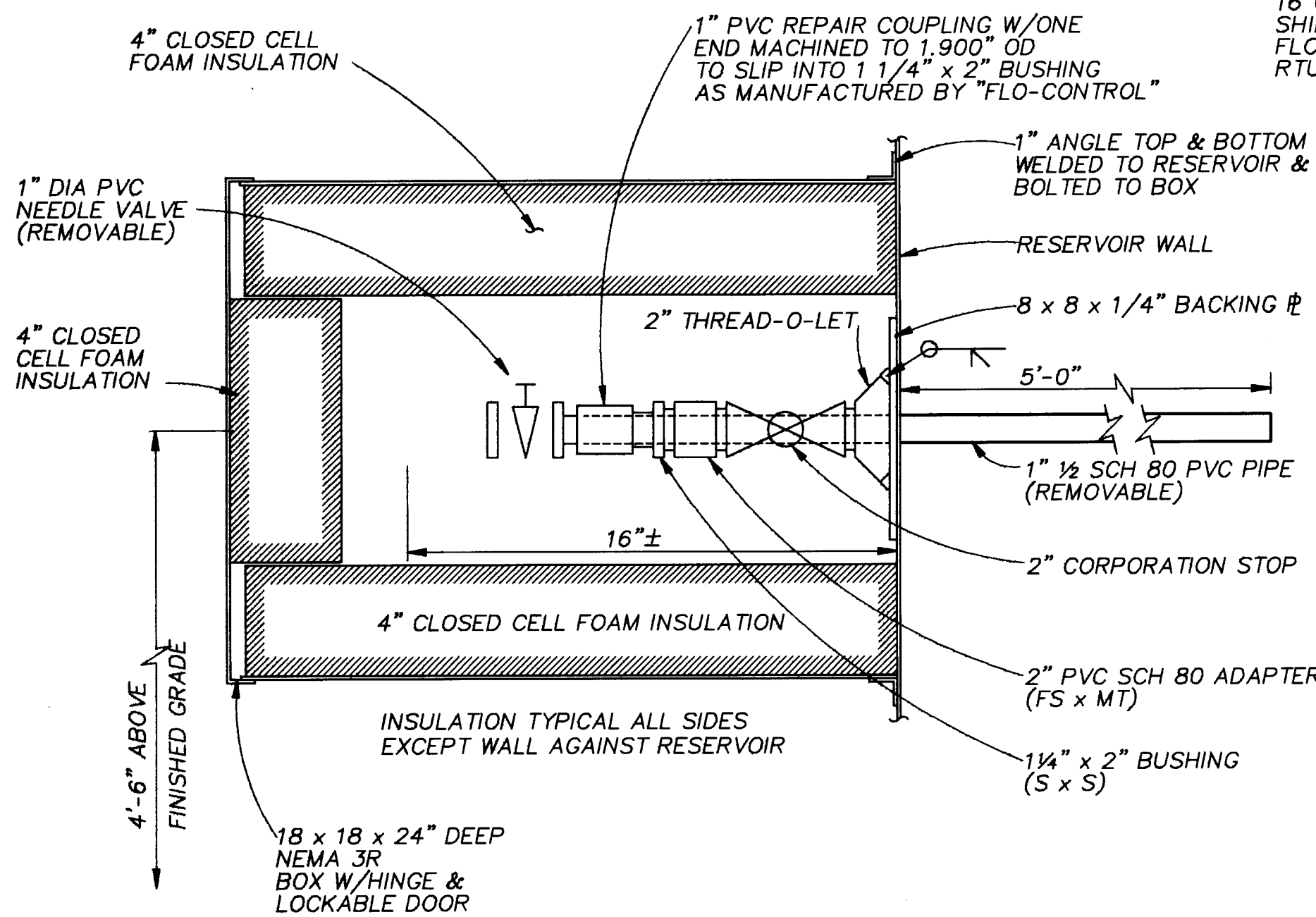
GRATING NOTES

- GRATING SPAN — SEE PLAN.
- WIDTH OF GRATING SECTIONS SHALL NOT EXCEED 3'-6".
- SHOP DRAWINGS BASED ON FIELD DIMENSIONS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION.
- UNLESS NOTED OTHERWISE ON PLANS, GRATING THICKNESS SHALL BE AS TABULATED IN "GRATING THICKNESS TABLE" FOR APPLICABLE TRAFFIC.
- BEARING BAR THICKNESS FOR GRATING TO BE 3/16" MINIMUM.
- BAND ALL EDGES WITH 3/16" x DEPTH OF BEARING BAR.
- PROVIDE MISCELLANEOUS GRATING FASTENERS AS REQUIRED.
- 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.
- THE HORIZONTAL CLEARANCE BETWEEN THE GRATING AND GRATING SUPPORTS SHALL NOT BE LESS THAN 1/4" NOT GREATER THAN 1/2".
- ALL GRATING SECTIONS, WHEN IN PLACE, SHALL ALWAYS BE FIRMLY ANCHORED TO THEIR SUPPORTS.
- DO NOT REUSE EXISTING GRATING.

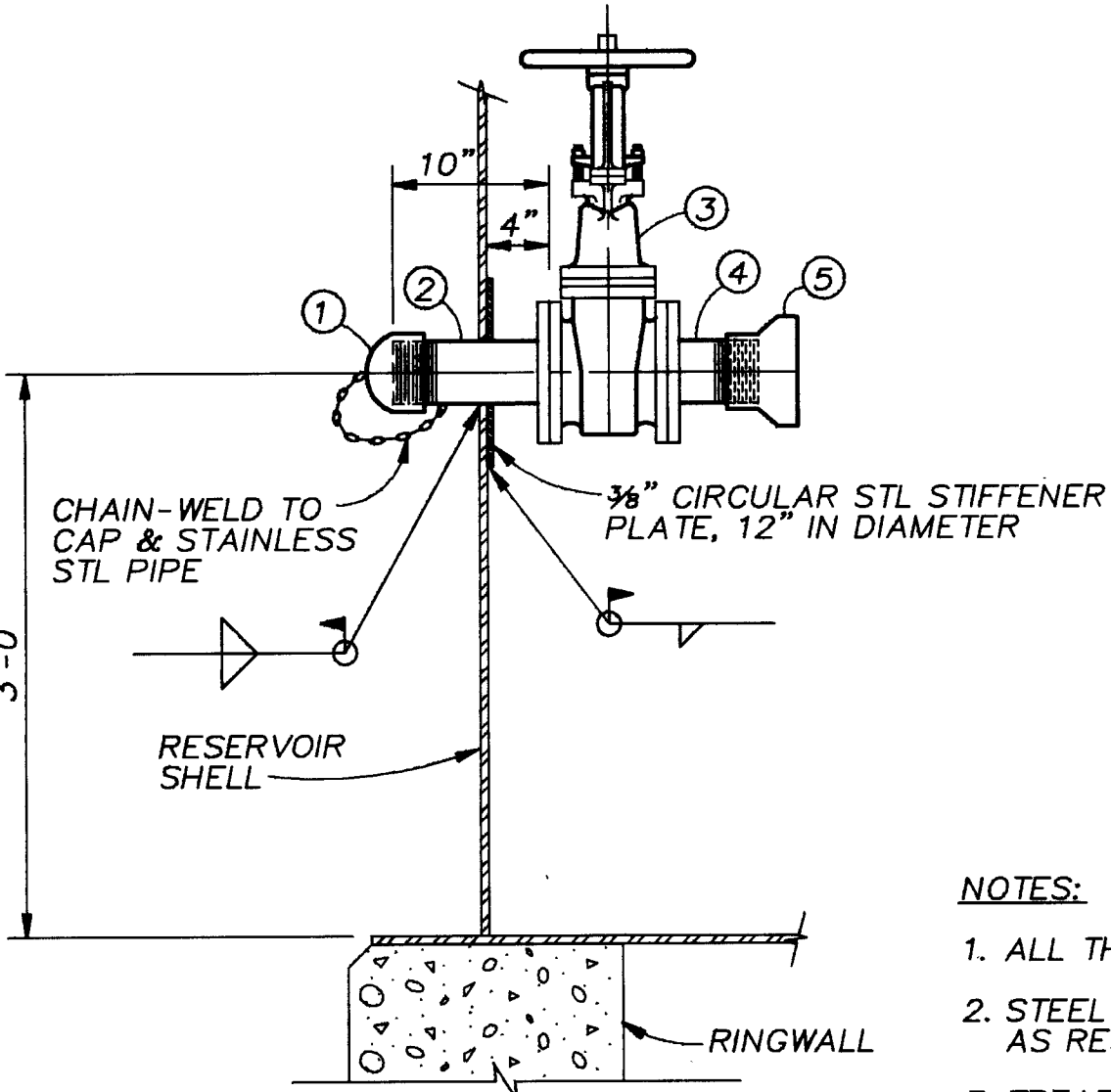
FOOT TRAFFIC
GRATING THICKNESS TABLE

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"

GRATING DETAIL 1



SAMPLING STATION DETAIL 2

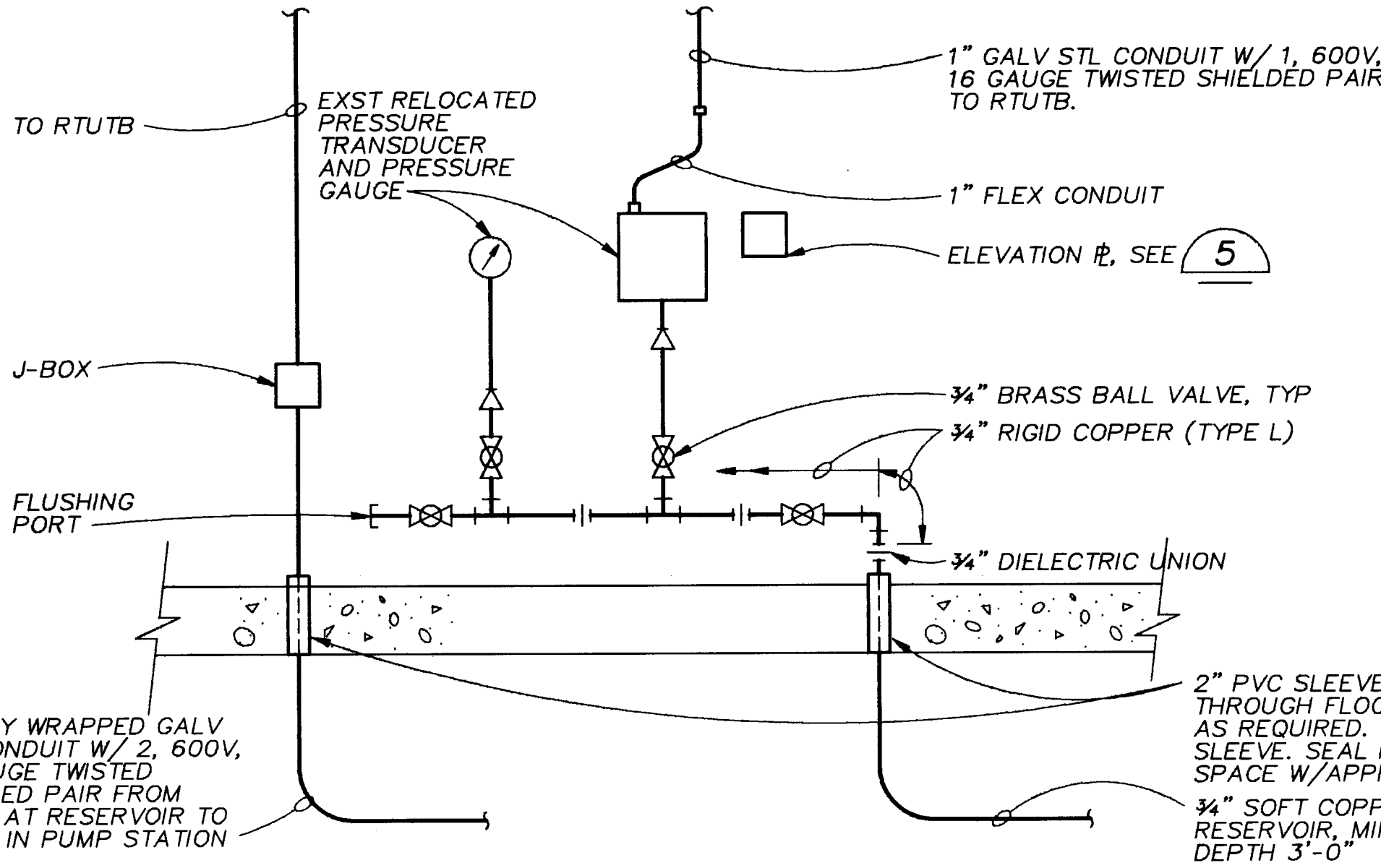


PUMP OUT VALVE
PIPING SCHEDULE

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

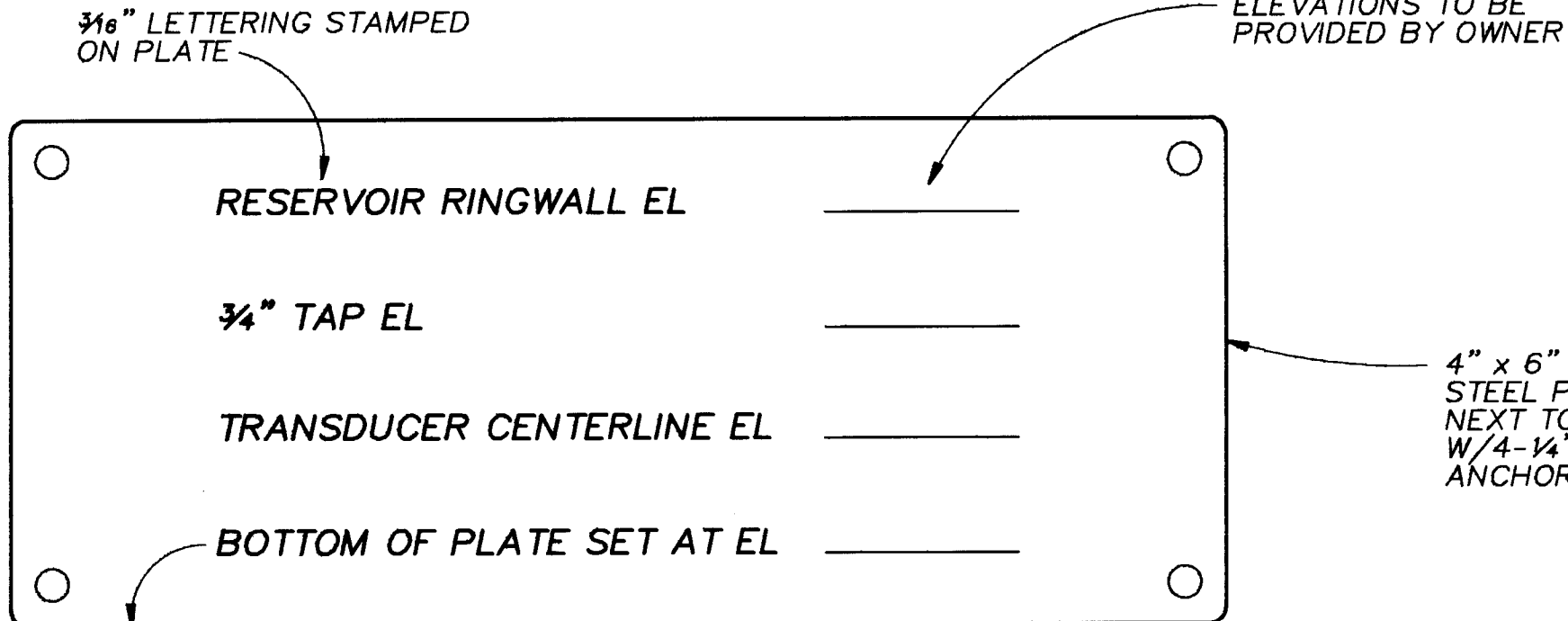
- NOTES:
- ALL THREADS ARE TO BE NATIONAL PIPE THREADS (NPT).
 - STEEL SHALL BE SCHEDULE 80, TREATED WITH SAME PAINT SYSTEM AS RESERVOIR. (INSIDE TANK AND OUTSIDE TANK)
 - TREAT INSIDE OF ITEM NOS. 1, 2 AND 4 W/ SAME PAINT SYSTEM AS RESERVOIR.

PUMP OUT VALVE DETAIL 3

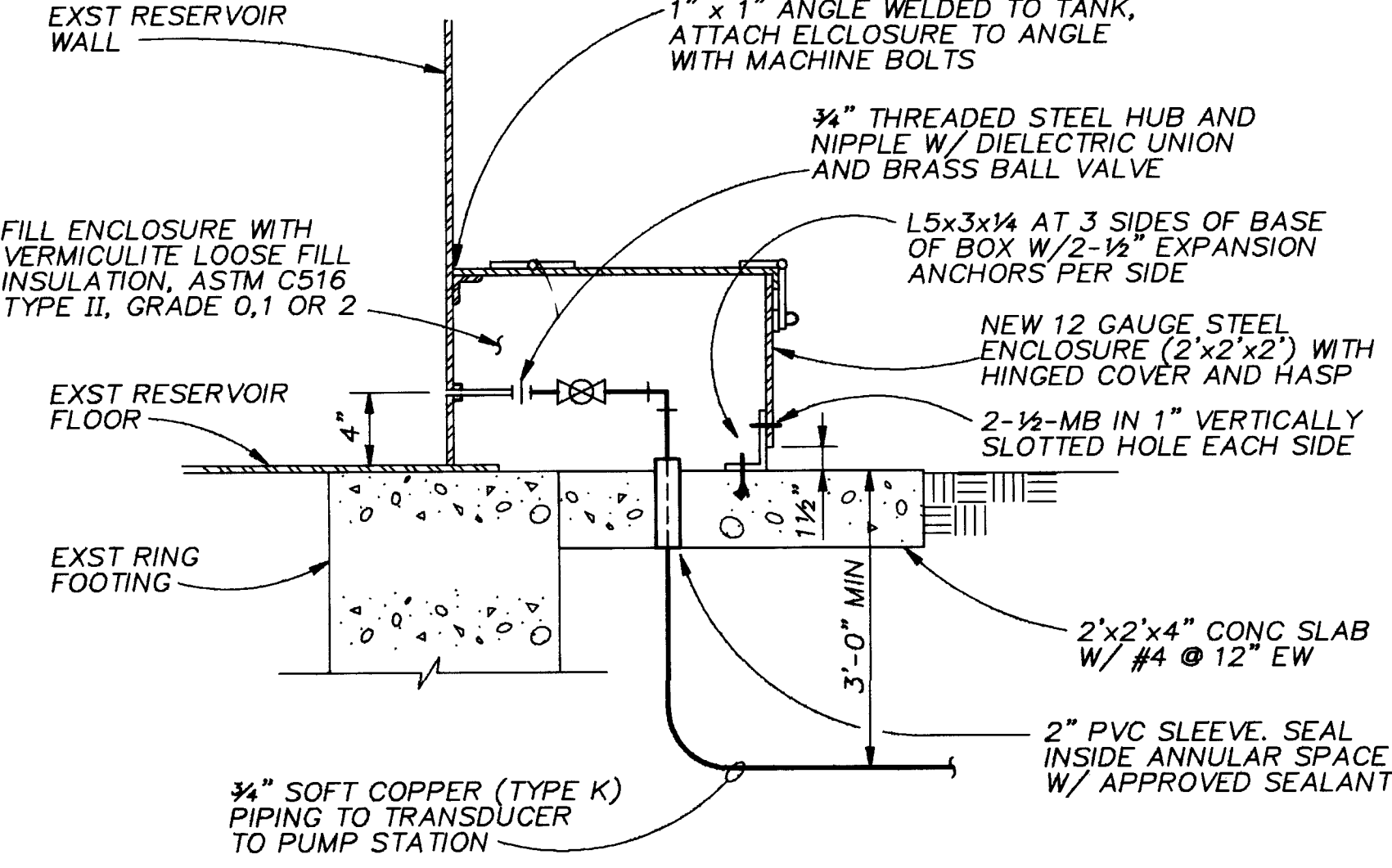


PRESSURE TRANSDUCER CONNECTION 4

NTS (DON RESERVOIR ONLY)



ELEVATION PLATE 5



RESERVOIR PRESSURE SENSOR BOX 6

NTS (DON RESERVOIR ONLY)

RECORD DRAWINGS

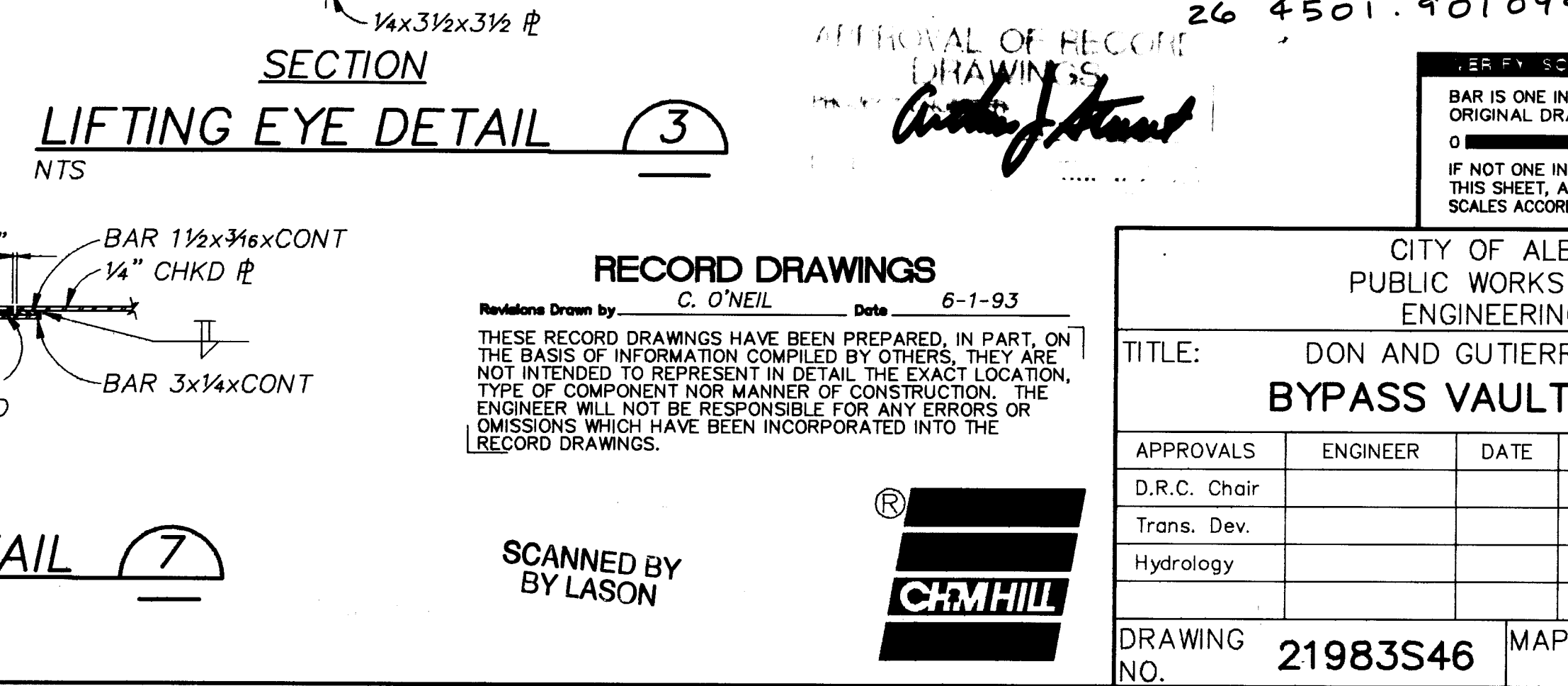
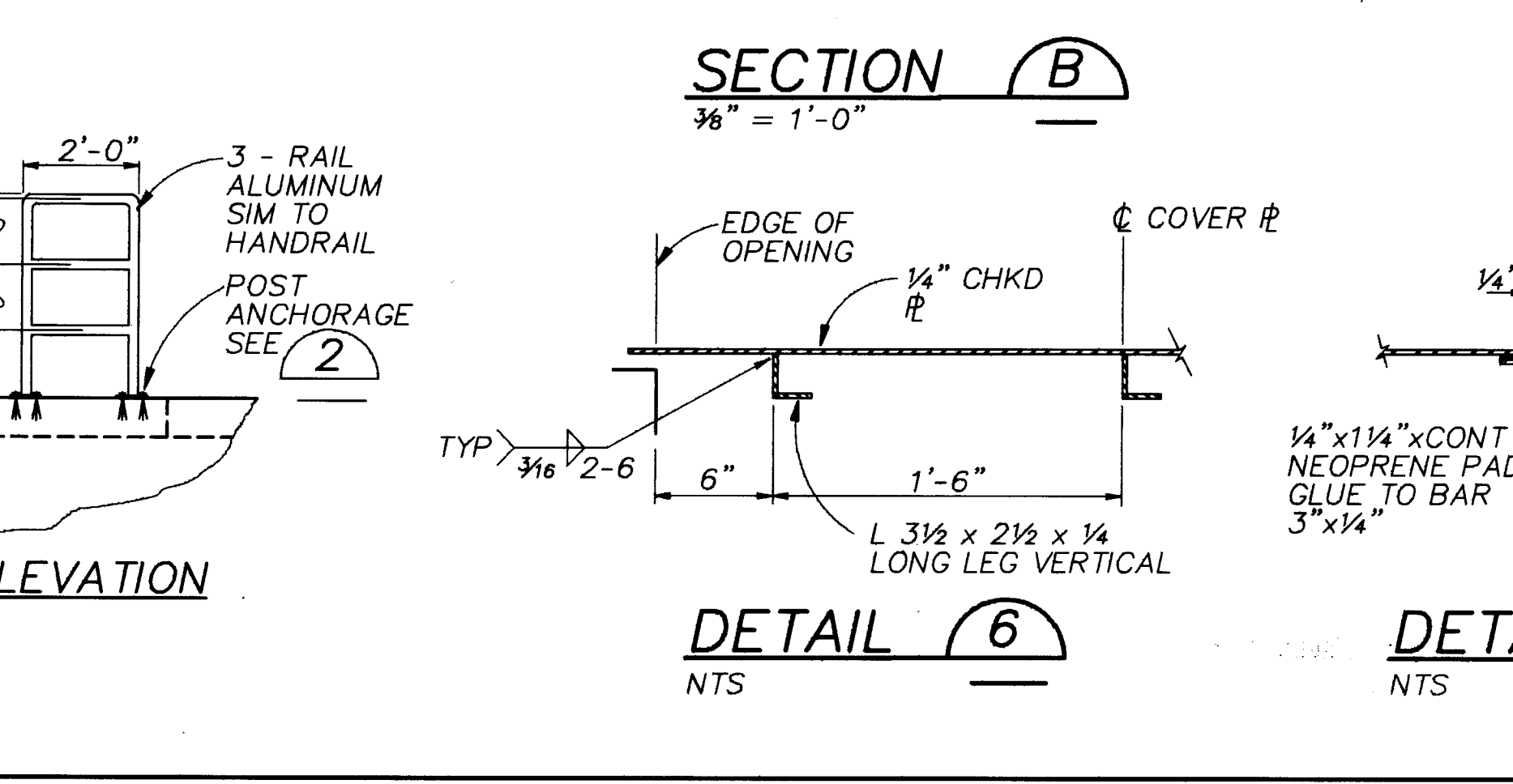
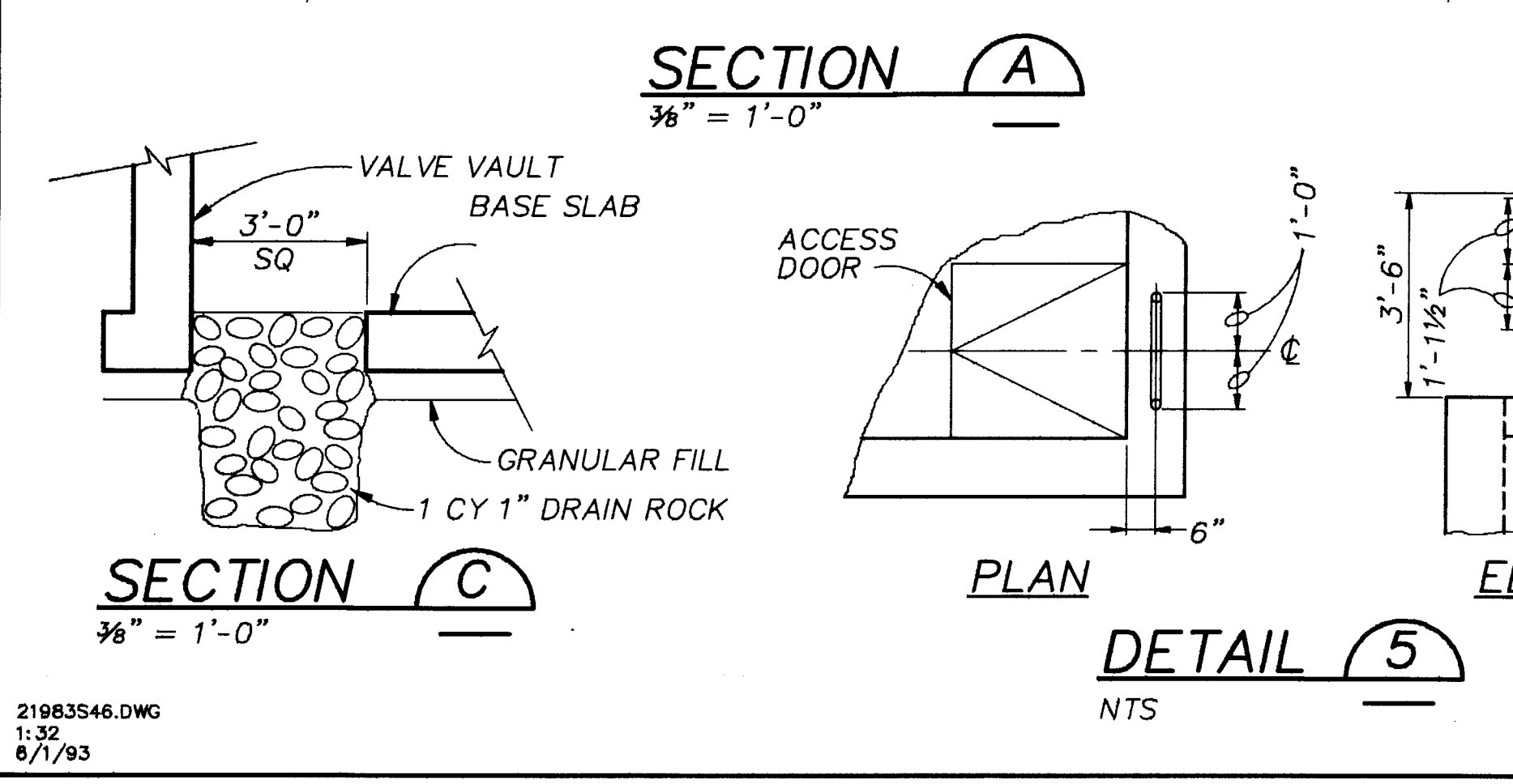
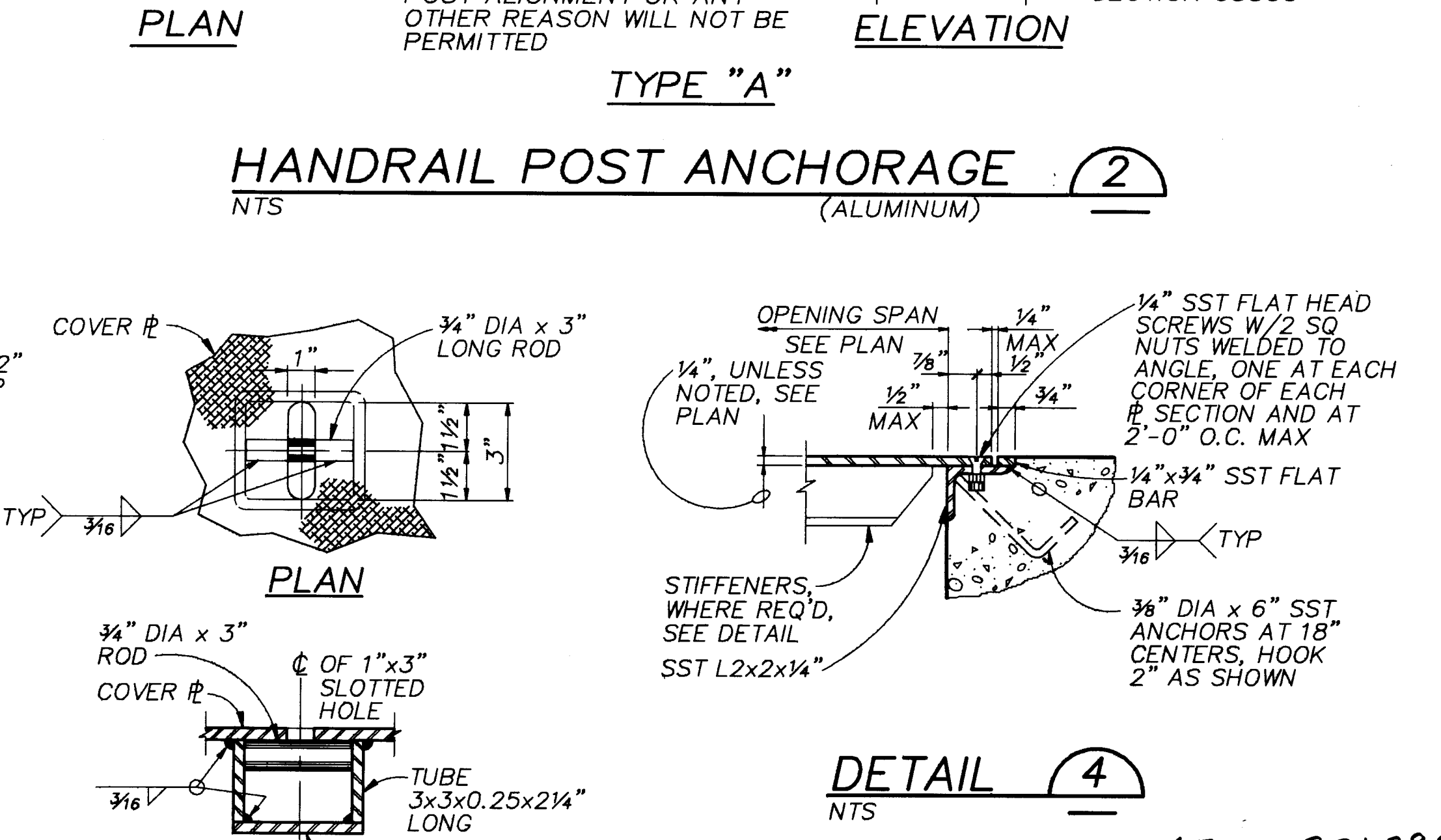
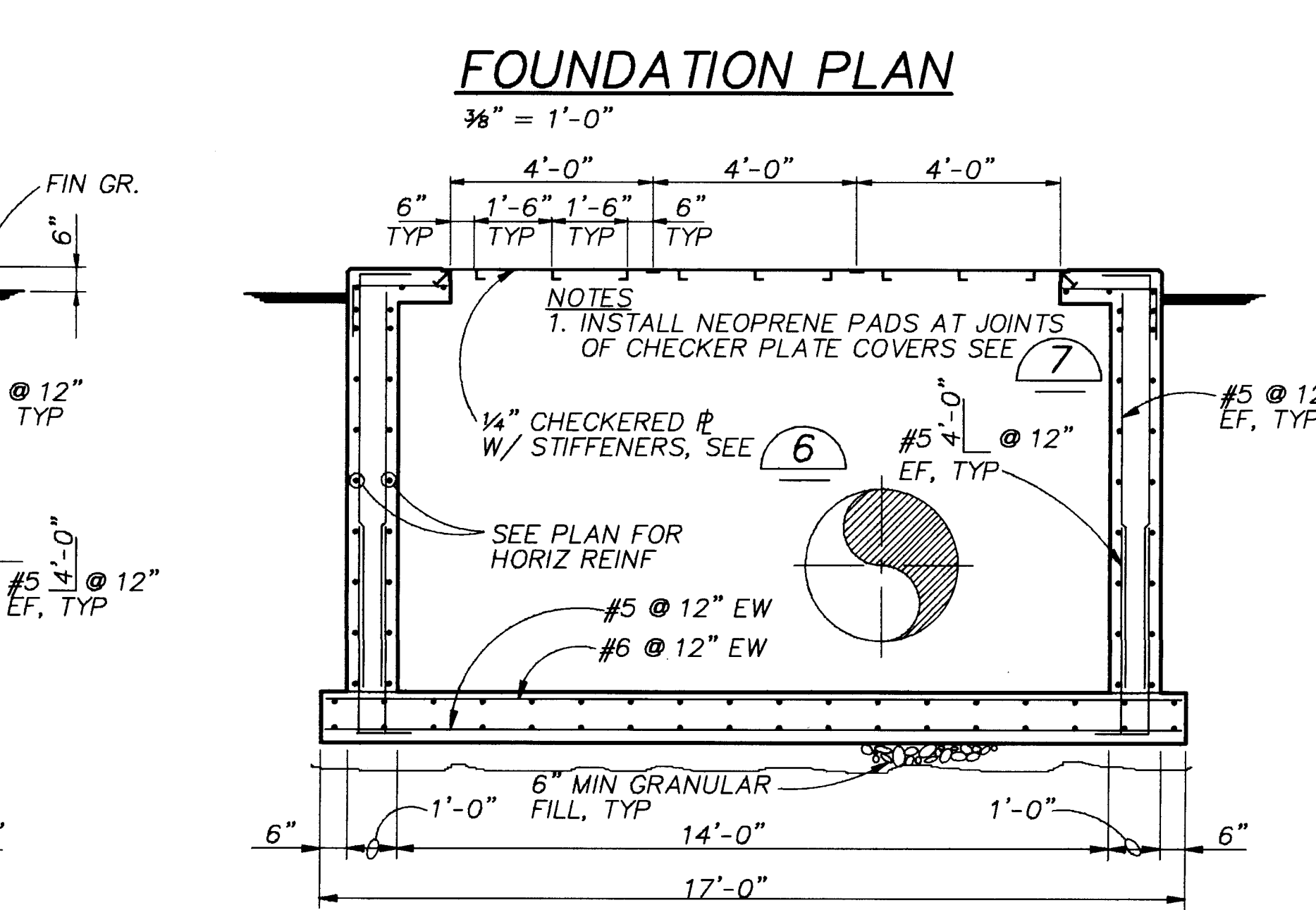
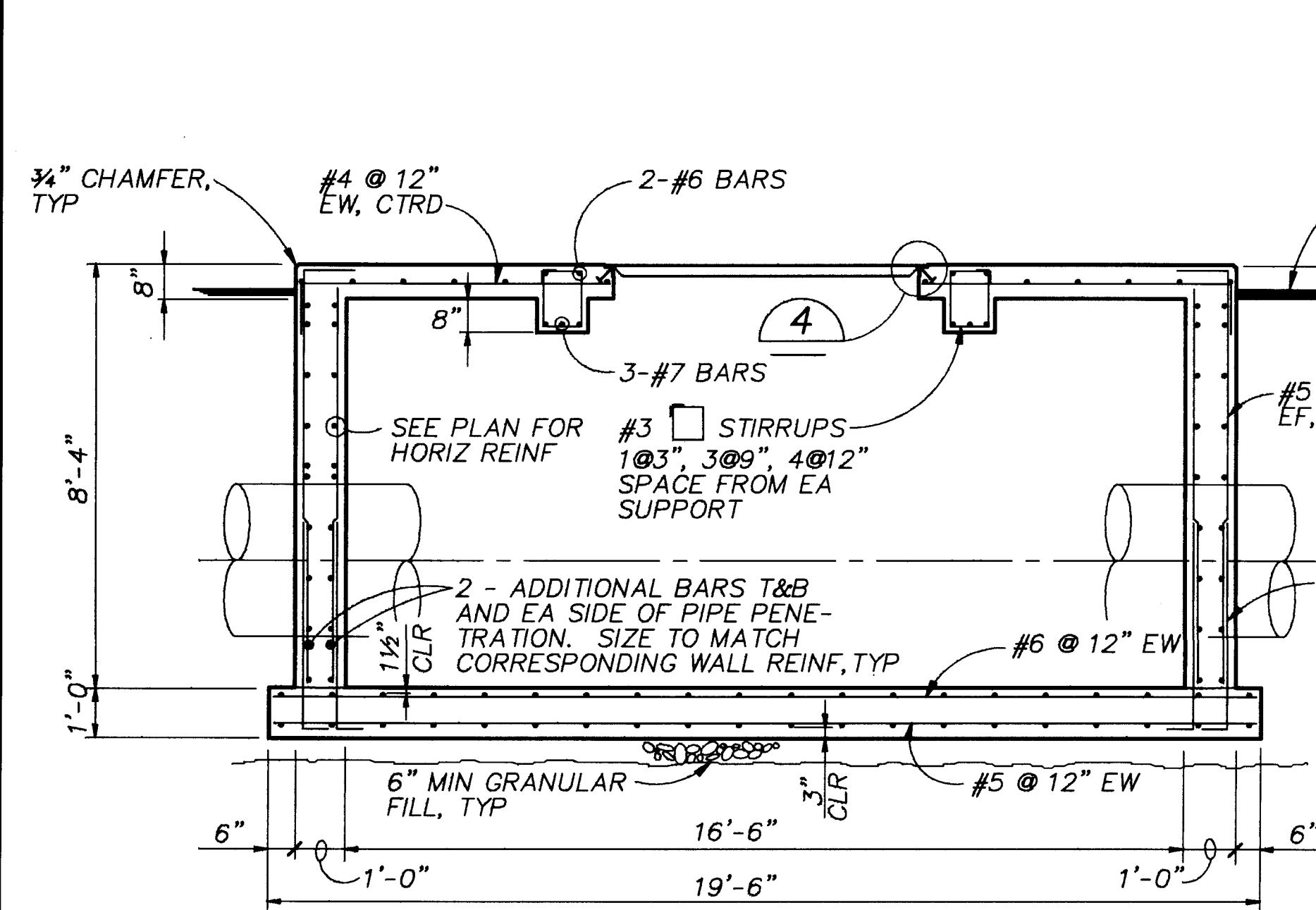
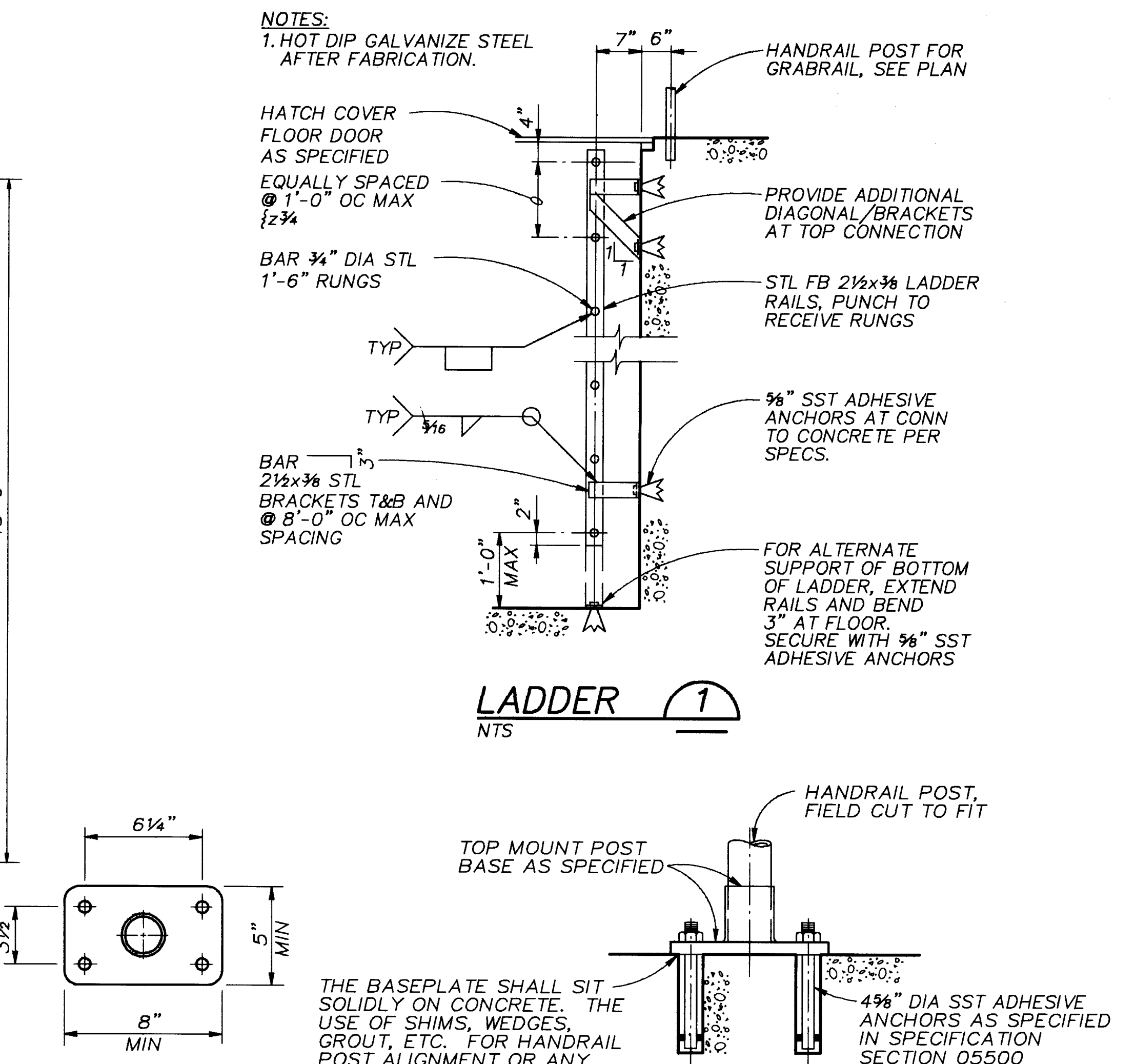
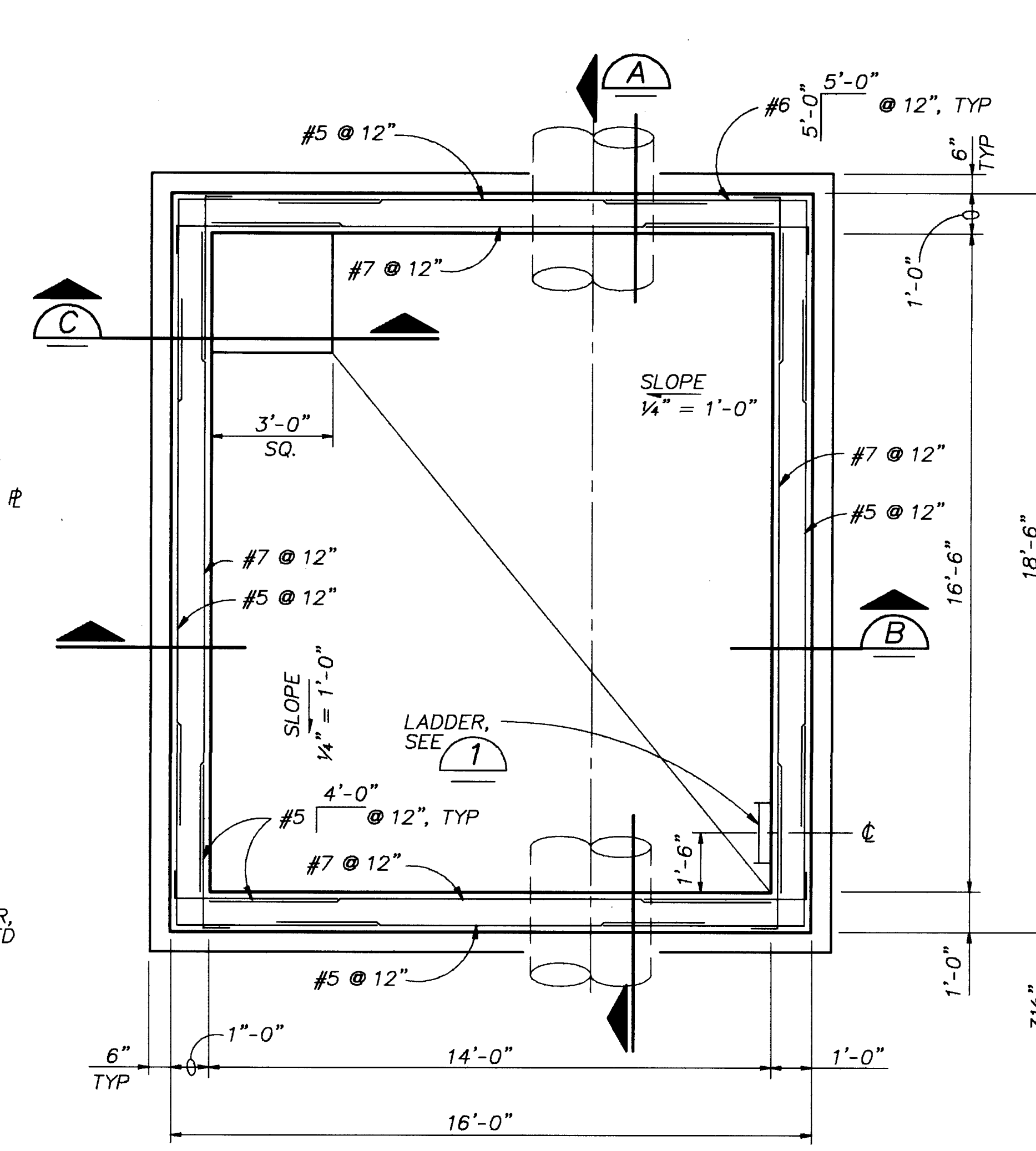
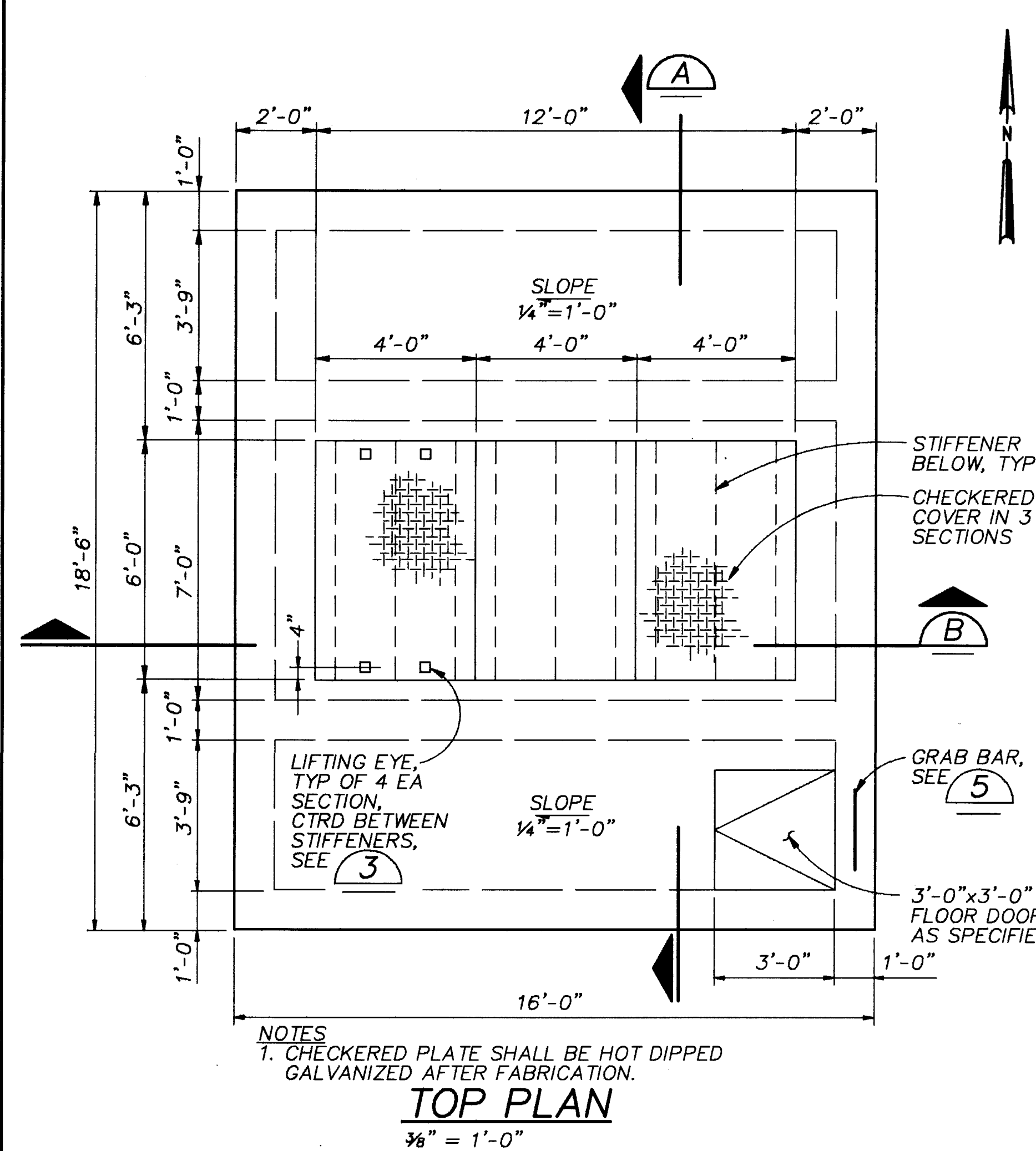
Revisions Drawn by: C. O'NEIL Date: 6-1-93

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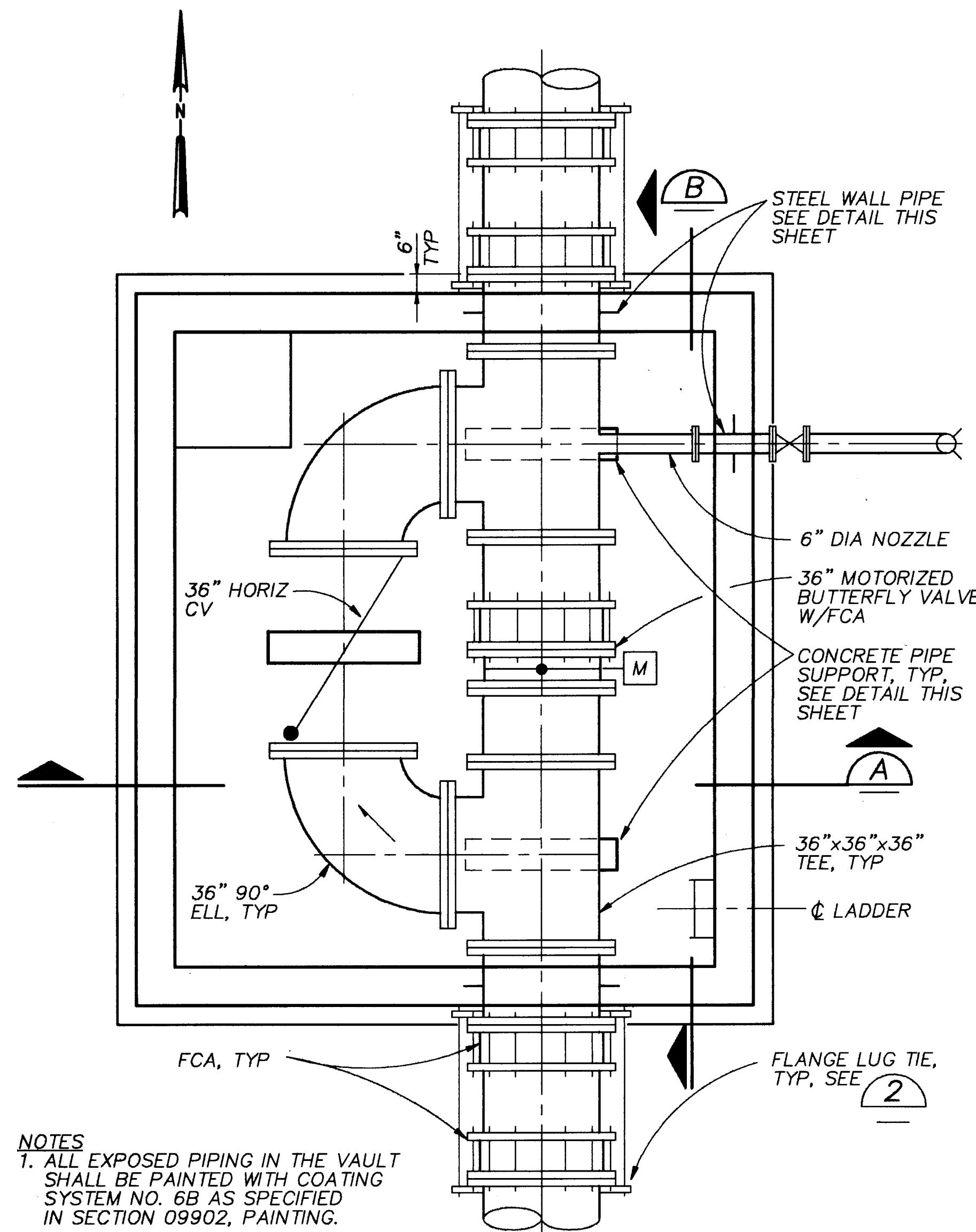
VERIFY SCALES
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0 1"
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS					
TITLE: MISCELLANEOUS DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRAWING NO. 21983S42		MAP NO.		SHEET 9 OF 15	



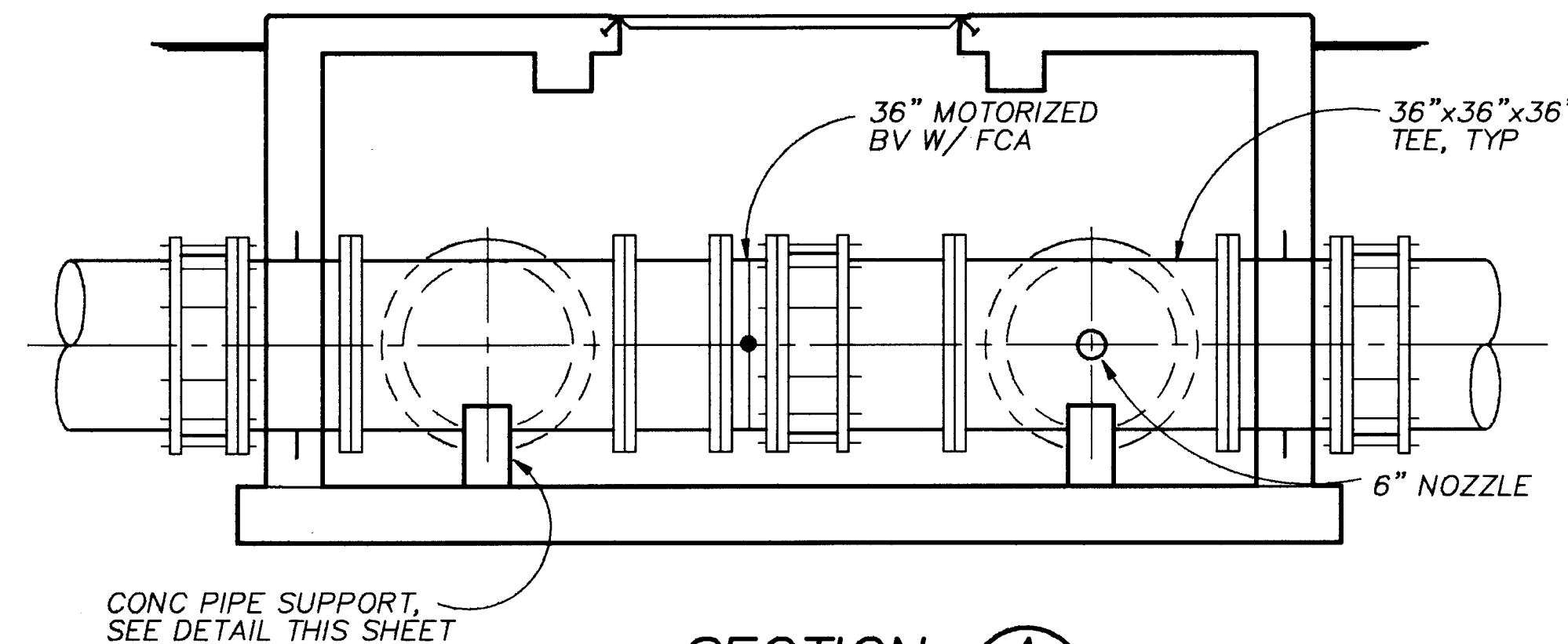


AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	NO.	STATION	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.
INSPECTOR'S	DATE	NO.	STATION	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.
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CHECKED BY	DATE	NO.	STATION	DATE	NO.	FIELD NOTES	DATE	NO.	REMARKS	DATE	NO.
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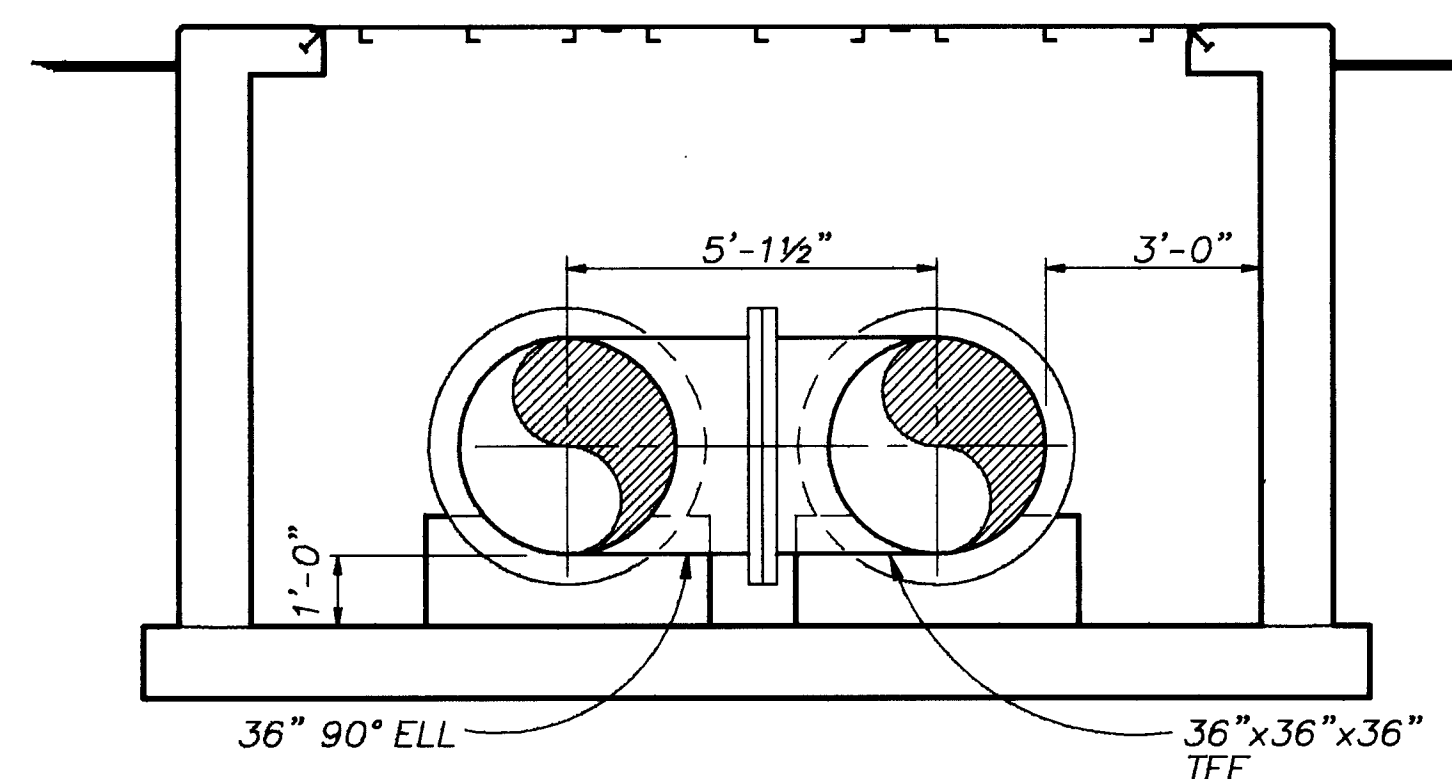


- NOTES**
1. ALL EXPOSED PIPING IN THE VAULT SHALL BE PAINTED WITH COATING SYSTEM NO. 6B AS SPECIFIED IN SECTION 09902, PAINTING.
 2. 36" MOTORIZED BUTTERFLY VALVE SHALL BE FURNISHED BY OWNER.

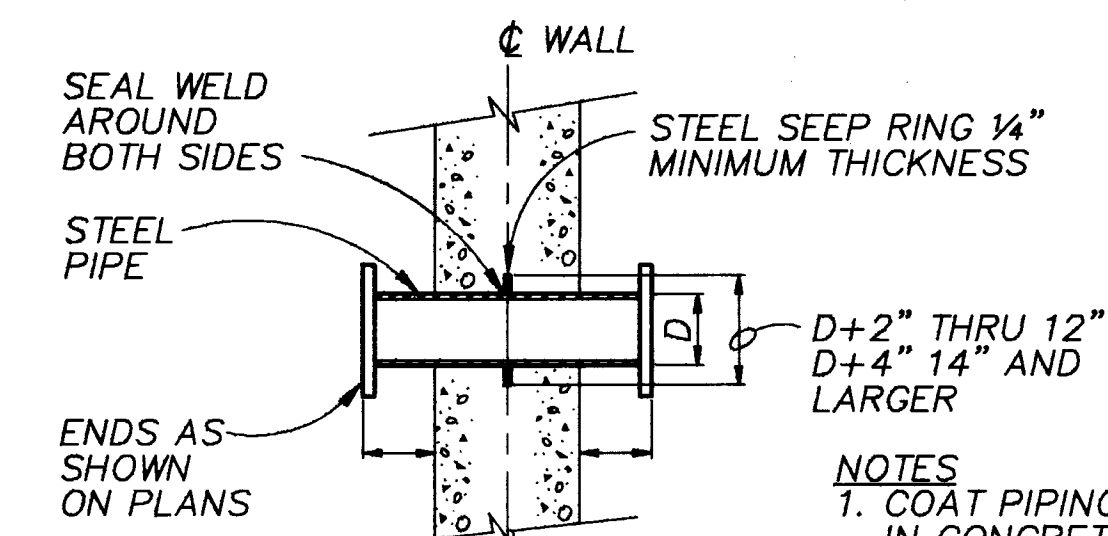
PLAN
3/8" = 1'-0"



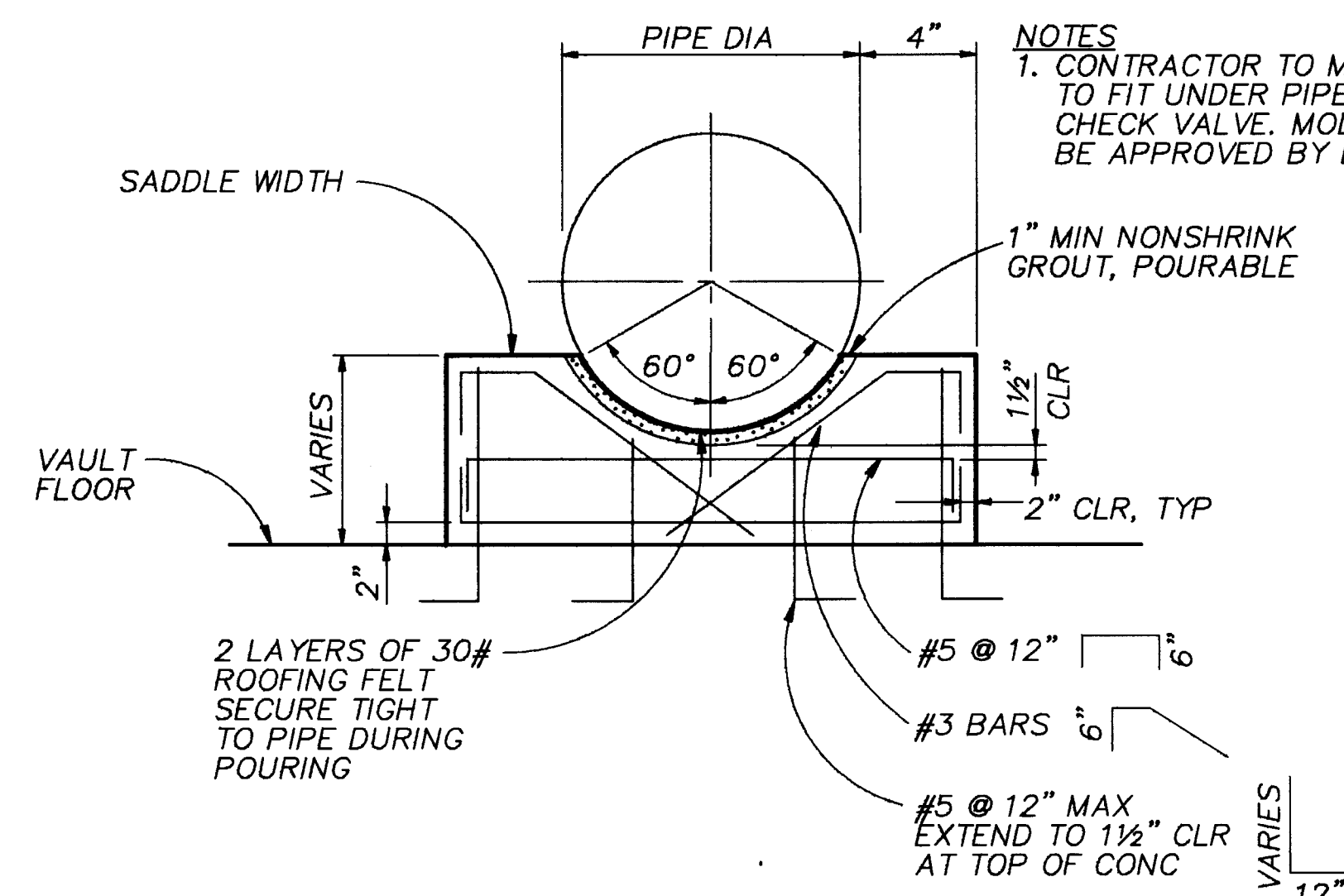
SECTION A
3/8" = 1'-0"



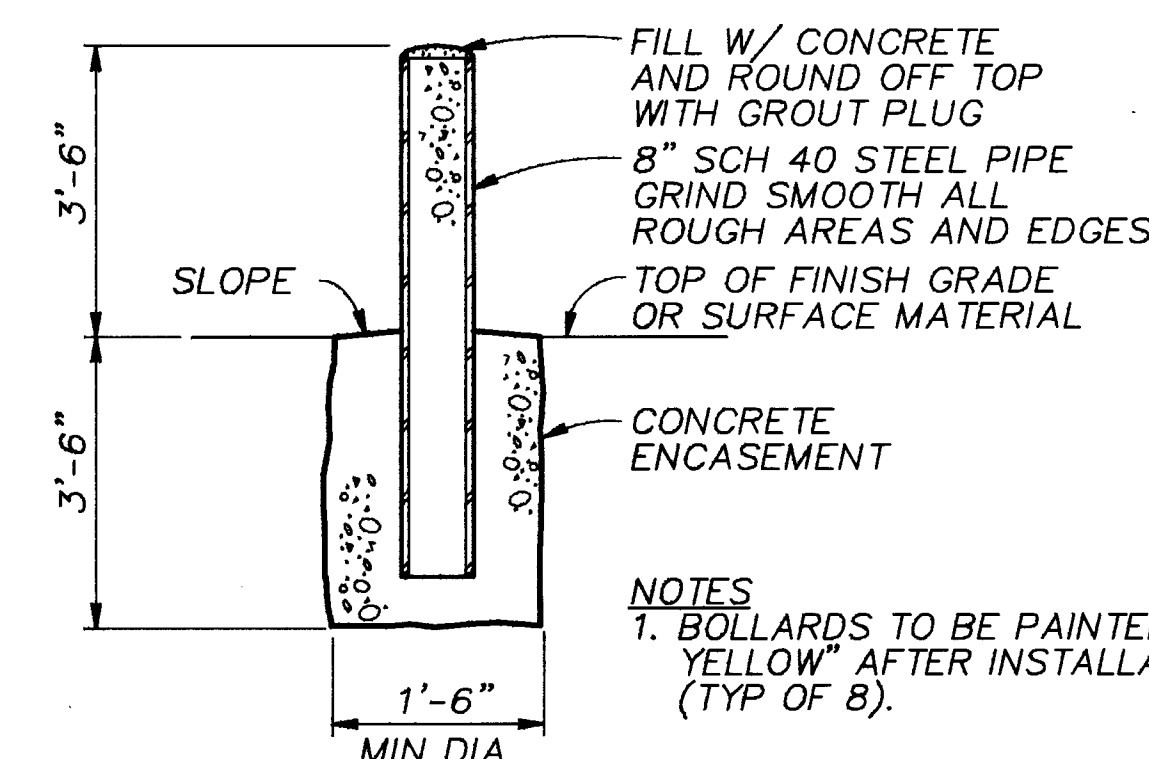
SECTION B
3/8" = 1'-0"



STEEL WALL PIPE
NTS



CONCRETE PIPE SUPPORT
NTS



BOLLARD
NTS

*SEE NOTES

FLANGE LUG TIE ROD SCHEDULE											
TIE ROD DIA. OR BOLT SIZE	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/4	2 3/4
DIA G OR E	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 5/8	2	2 1/4	2 1/2	3
RADIUS D OR F	7/8	1	1 1/8	1 1/4	1 3/8	1 1/2	1 3/4	2	2 1/4	2 3/8	2 1/2

TEST PRESSURE (psi)		25	50	100	150	225	375
PIPE DIA.	MIN. PLATE THICKNESS	TIE ROD DIA.	MINIMUM RODS REQUIRED				
12	7/8	1	2	2	2	2	4
14	7/8	1	2	2	2	4	4
16	7/8	1 1/8	2	2	2	4	4
18	7/8	1 1/8	2	2	4	4	4
24	1 1/8	1 1/4	2	2	4	5	5
30	1 3/8	1 1/2	2	2	4	7	7
36	1 5/8	1 3/4	4	4	4	8	8
42	1 5/8	1 5/8	4	4	6	9	9

NOTES:

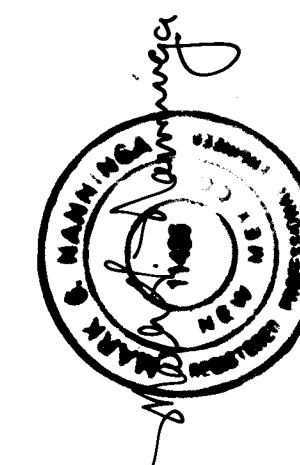
1. ALL DIMENSIONS ARE IN INCHES.
2. DIMENSION "A" AS REQUIRED BY FLANGE SPECIFIED.
3. RADIUS "C" EQUALS 1/2 X (BOLT CIRCLE) + F
4. RADIUS "B" EQUALS 1/2 X (FLANGE OD) + D + 1/8
5. WHEN USING FLANGE LUGS WITH TIE ROD LUGS, RADIUS "B" EQUALS PIPE OD + E FROM TIE ROD LUG SCHEDULE, USE LARGEST DIAMETER ROD.
6. INSTALL TIE ROD ASSEMBLIES SUCH THAT ALL RODS ARE EQUALLY SPACED AROUND FLANGE. ON PIPING 20" AND LARGER RODS MAY BE GROUPED IN PAIRS BUT GROUPS MUST BE EQUALLY SPACED AROUND FLANGE. THE TOTAL NUMBER OF TIE RODS SHALL BE INCREASED ABOVE THAT TABULATED AS NECESSARY TO MEET SPACING REQUIREMENTS.
7. TIE RODS SHALL CONFORM TO ASTM A193 GRADE B7
8. NUTS SHALL CONFORM TO ASTM A194 GRADE 2H
9. PLATE SHALL CONFORM TO ASTM A283 GRADE D
10. THIS DETAIL SUITABLE ONLY FOR EXPOSED PIPING.
11. FLANGE LUGS MUST BE SHOP FABRICATED.

SCANNED BY
BY LASON

FLANGE LUG DETAIL/SCHEDULE
NTS

2

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	DATE	NO.	DATE	NO.	DATE
INSPECTOR'S	DATE	NO.	DATE	NO.	DATE	NO.	DATE
FIELD CHECK BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
VERIFICATION BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
COMPLETED BY	DATE	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							



REVISIONS	DATE	BY	REMARKS
DESIGN	6/24/92	W. PATTON	DESIGNED BY
	7/15/92	R. SANDEANK	DRAWN BY
	JULY 1992	D. SCHERTLER	CHECKED BY

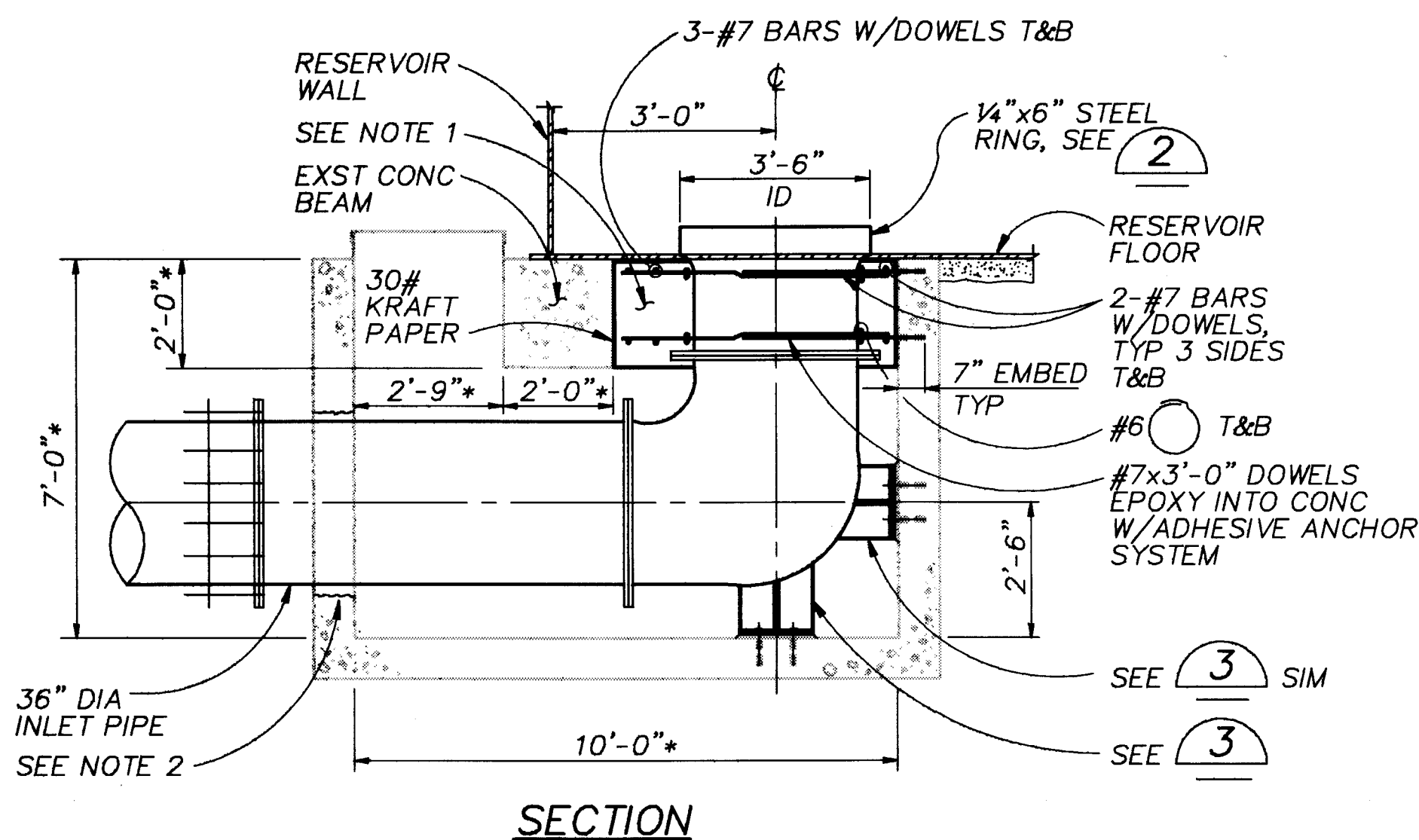
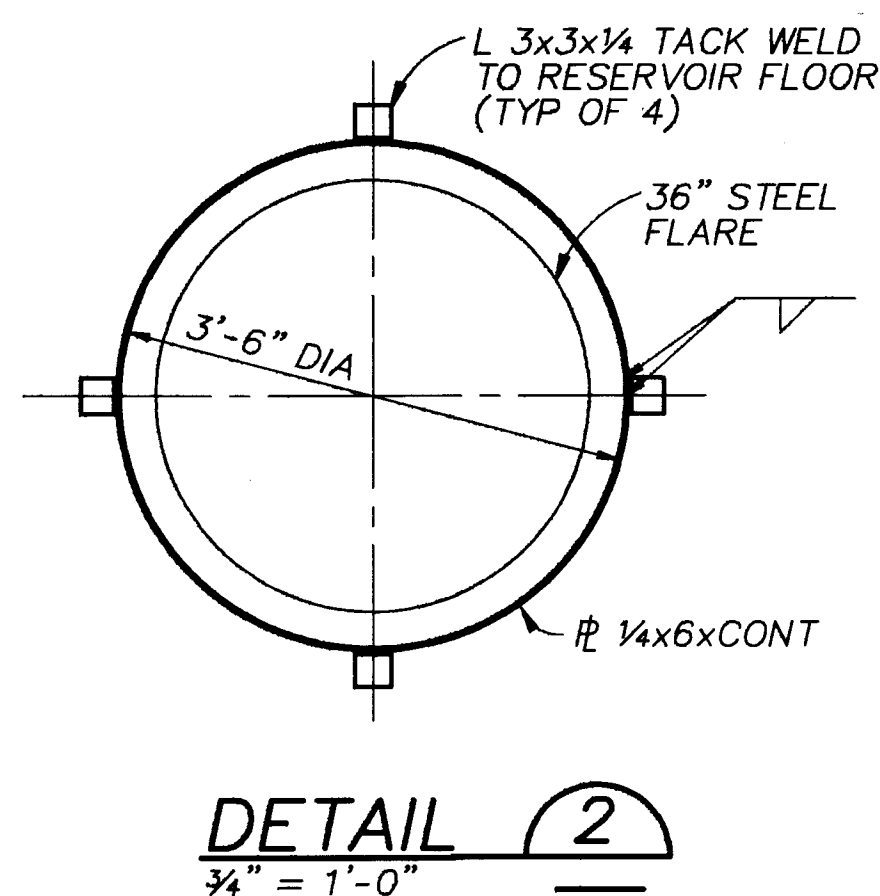
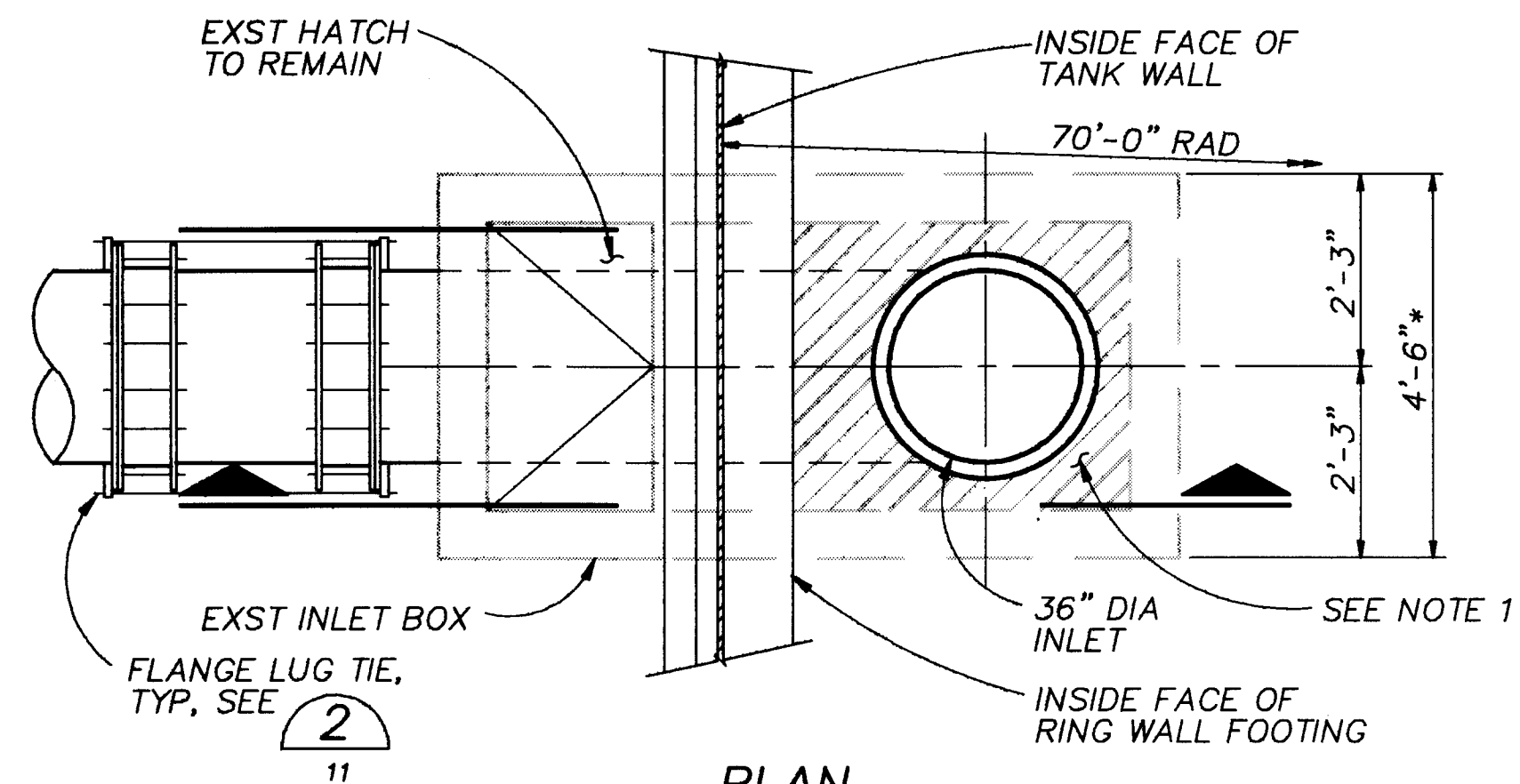
RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-1-93
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VERIFY SCALE
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0 1"
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON AND GUTIERREZ RESERVOIRS BYPASS VAULT MECHANICAL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO. 21983M40		MAP NO.		SHEET 11 OF 15	

* FIELD VERIFY DIMENSIONS

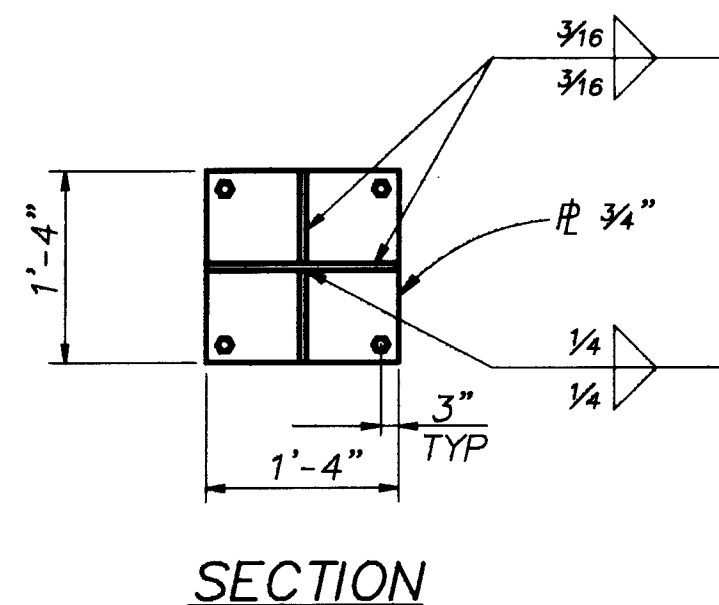
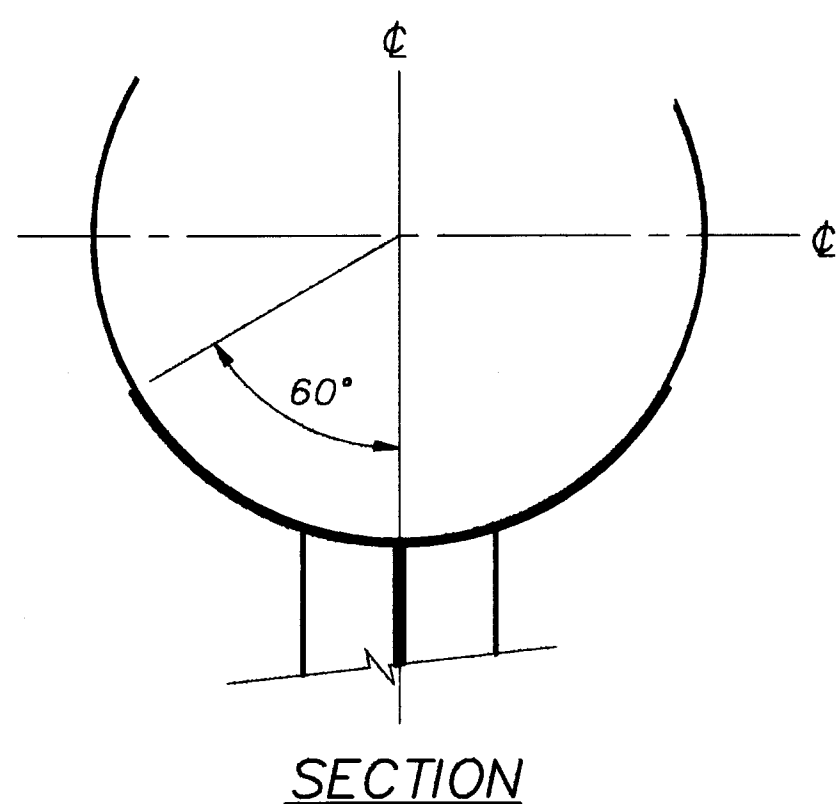
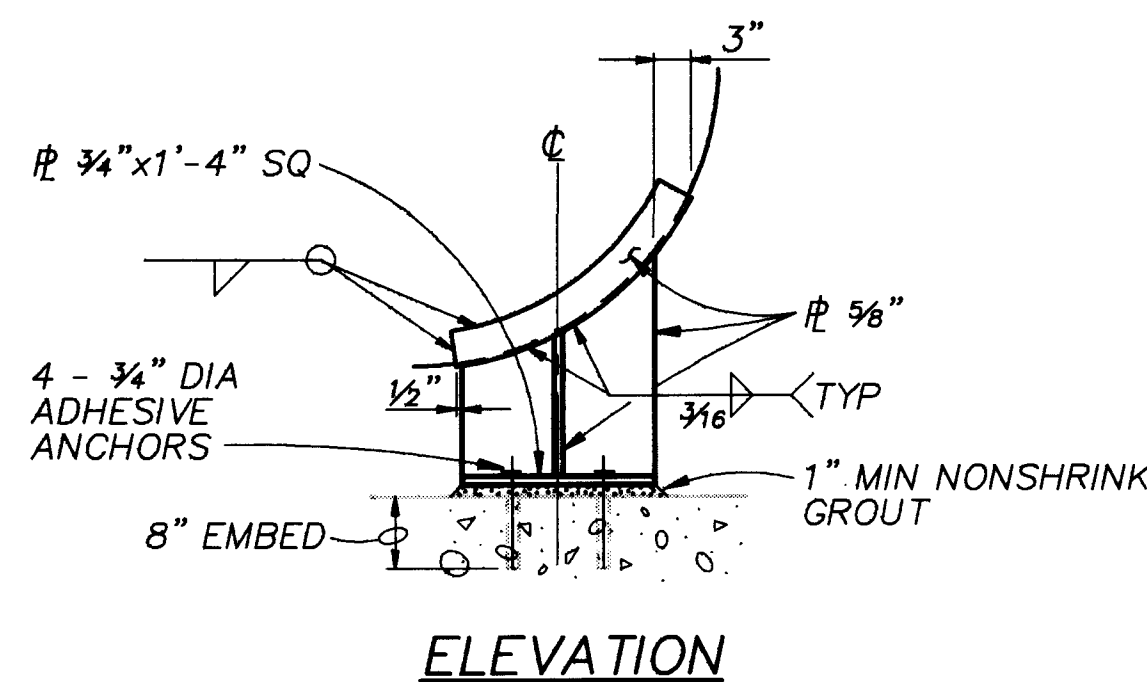


DETAIL 1

3/8" = 1'-0"

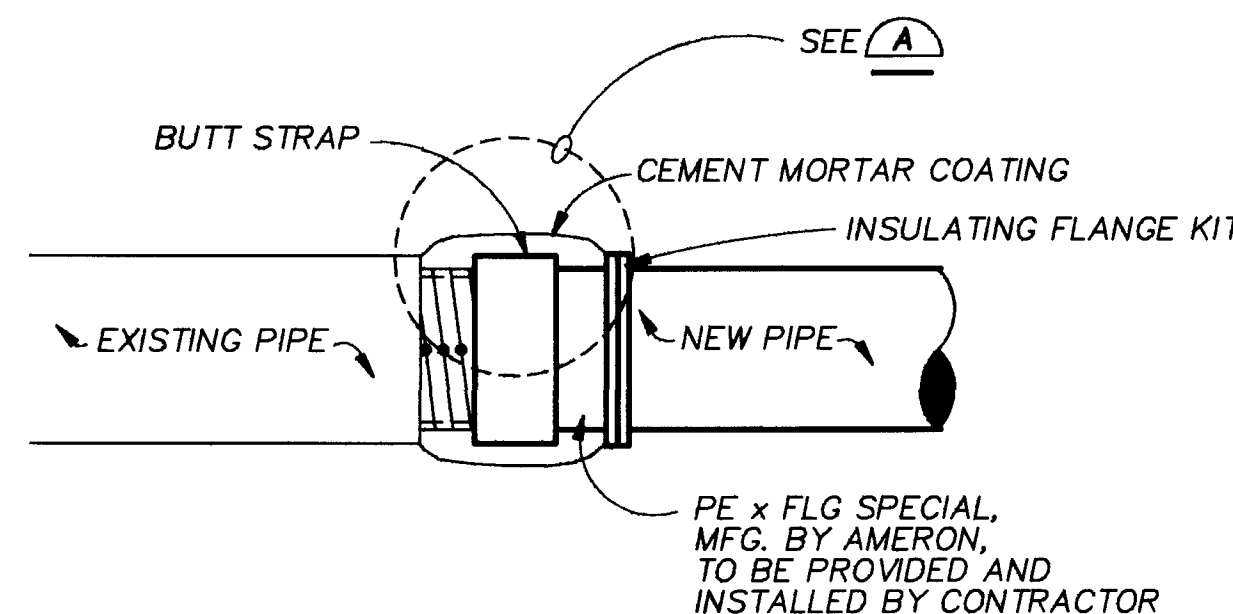
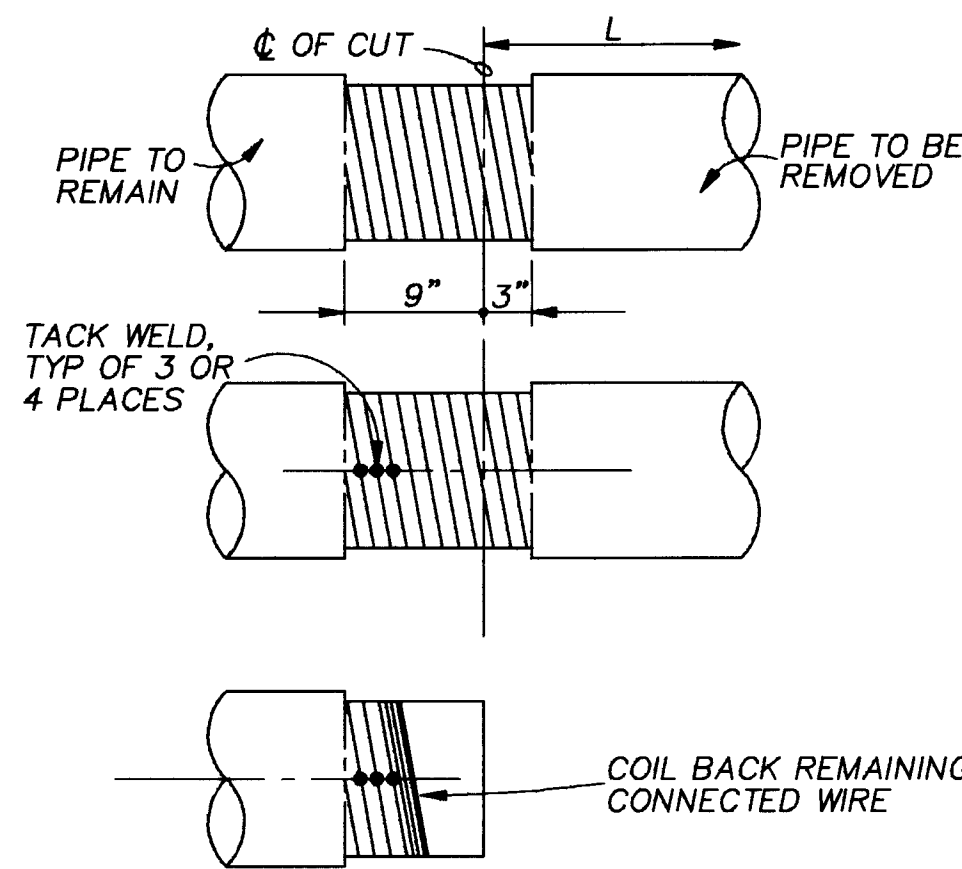
NOTES:

1. REMOVE EXISTING CONCRETE ENCASUREMENT AND EXISTING INLET TO LIMITS OF INSIDE FACE OF VAULT. USE CARE SO AS NOT TO DAMAGE EXISTING INLET BOX WALLS AND BEAM BELOW RESERVOIR WALL. AFTER INSTALLATION OF NEW INLET PIPE, ENCASE IN CONCRETE AS SHOWN. USE 30 LB. CRAFT PAPER AS BOND BREAKER BETWEEN NEW CONCRETE ENCASUREMENT AND EXISTING CONCRETE BEAM BELOW RESERVOIR WALL. DOWEL OTHER 3 SIDES OF ENCASUREMENT INTO EXISTING INLET BOX WALLS AS SHOWN USING ADHESIVE ANCHOR SYSTEM AS SPECIFIED. ROUGHEN CONTACT SURFACE BETWEEN NEW AND EXISTING CONCRETE TO FULL 1/4" AMPLITUDE AND APPLY BONDING AGENT PRIOR TO PLACING NEW CONCRETE. THICKNESS OF NEW CONCRETE ENCASUREMENT SHALL MATCH DEPTH OF EXISTING CONCRETE BEAM UNDER RESERVOIR WALL.
2. BREAK OUT EXISTING INLET BOX WALL AS REQUIRED FOR INSTALLATION OF NEW 36" PIPE. SALVAGE AS MUCH OF EXISTING REINFORCING STEEL AS POSSIBLE. FILL ANNULAR SPACE AROUND NEW PIPE WITH NONSHRINK GROUT.
3. NONSHRINK GROUT SHALL BE NONMETALLIC, NONGAS LIBERATING AND SHALL BE ONE OF THE FOLLOWING: A. CRYSTEX, L&M CONSTRUCTION CHEMICALS, INC., OMAHA, NE.; B. EUCO NS GROUT, EUCID CHEMICAL CO., CLEVELAND, OH.; C. SETGROUT, MASTER BUILDERS CO., CLEVELAND, OH.; D. SUPREME GROUT, GIFFORD HILL & CO., DALLAS, TX.; E. UPCON "SUPERFLOW", UP CO CO., CLEVELAND, OH.
4. COAT PIPING TO BE EMBEDDED IN CONCRETE WITH SYSTEM 30 AS SPECIFIED IN SECTION 09902, PAINTING.
5. CONTRACTOR TO FIELD VERIFY DIMENSIONS AND LAYOUT PRIOR TO PIPING FABRICATION.



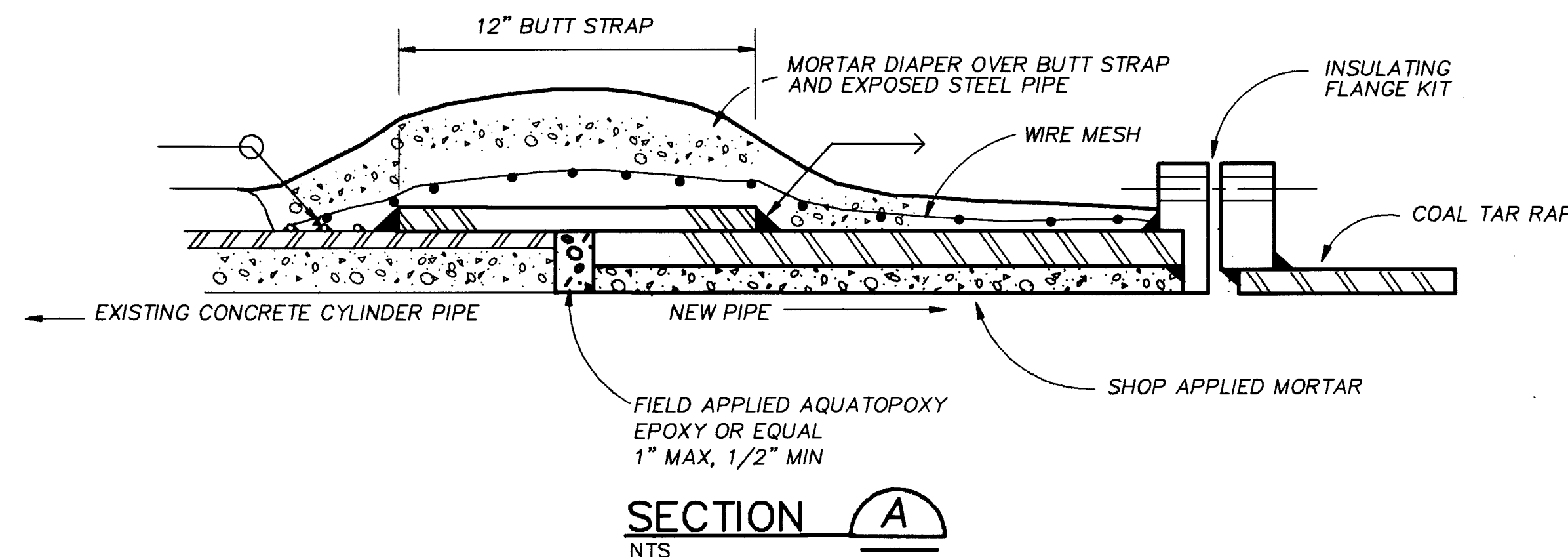
DETAIL 3

3/4" = 1'-0"



BUTTSTRAP DETAIL

NTS



BUTTSTRAP JOINT FOR CONCRETE CYLINDER PIPE

BUTTSTRAP SEQUENCE:

1. DETERMINE LENGTH "L" OF PIPE TO BE REMOVED AND MARK ON PIPE.
2. CAUTIOUSLY CHIP OFF THE COATING 9" FROM THE MARKED POINT OF PIPE TO REMAIN, THEN CHIP OFF THE COATING OF THE PORTION OF PIPE TO BE REMOVED 3" FROM THE MARKED POINT.
3. MARK THE CUT LOCATION ON THE EXPOSED WIRE WRAPPED CYLINDER.
4. 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.
5. CUT CYLINDER AND WIRE WRAP ALONG MARK AND REMOVE PIPE AND ANY WIRE NOT STILL CONNECTED TO THE REMAINING CYLINDER WRAP.
6. COIL BACK PORTION OF UNTACKED WIRE WRAP
7. PLACE NEW CONNECTING PIPE AND INSTALL BOTTOM HALF OF 12" BUTT STRAP AND WELD TO CYLINDER AND NEW PIPE.
8. MORTAR LINE THE INSIDE BOTTOM OF THE BUTT STRAP.
9. PLACE THE TOP HALF OF THE BUTT STRAP ON THE PIPE AND WELD IN PLACE.
10. MORTAR LINE THE TOP HALF OF THE BUTT STRAP.
11. PULL TAUGHT THE REMAINING WIRE WRAP (STEP 6) BACK TO WITHIN 1" OF BUTT STRAP OVERLAP AND TACK WELD.
12. PLACE CEMENT MORTAR COATING OVER BUTT STRAP AND EXPOSED WIRE WRAPPED CLINDER IN ACCORDANCE WITH AWWA C303 USING 2 X 4 X 13 GA WELDED WIRE FABRIC HELD 3/8" FROM THE STEEL.

RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-1-93

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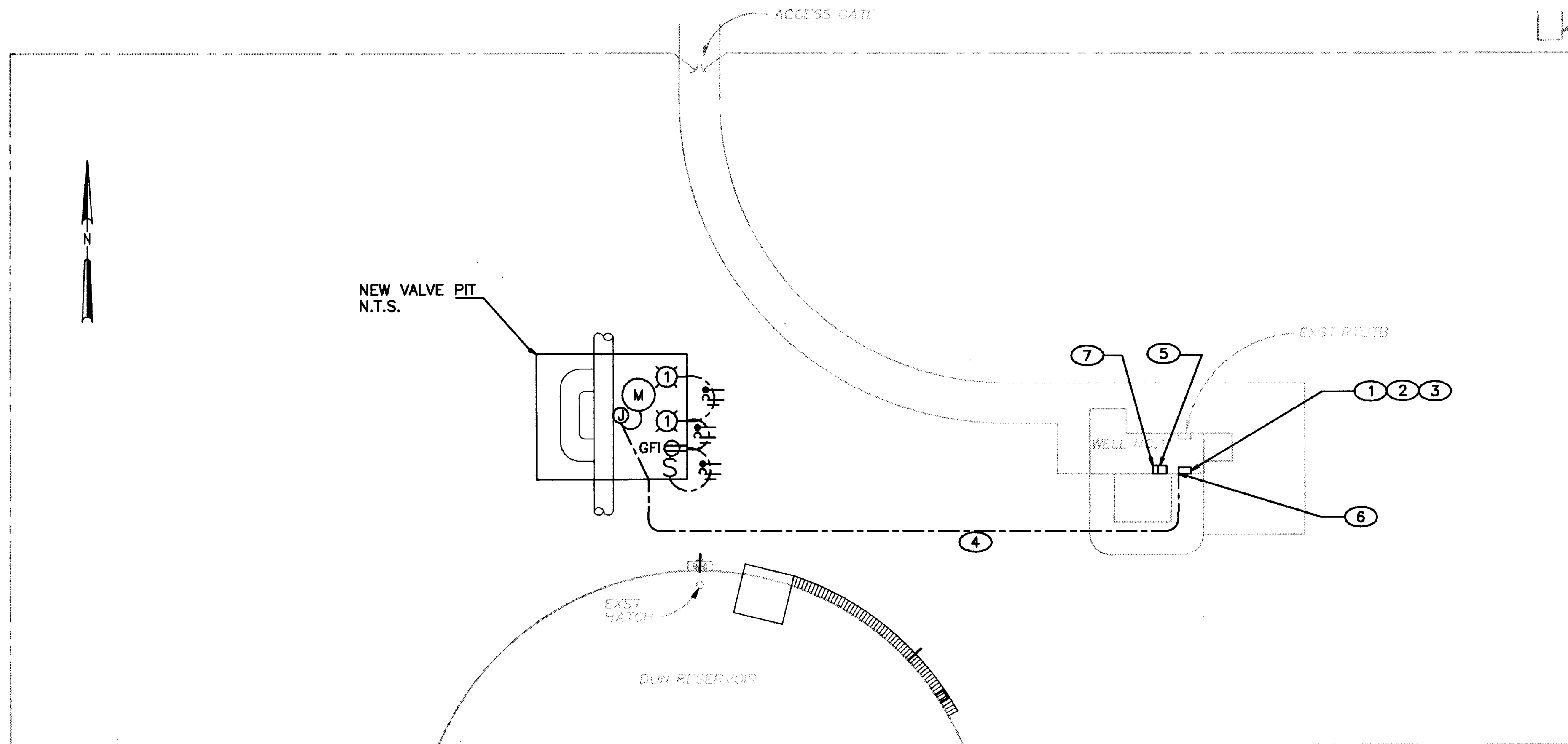
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26 4501 .90 1294

SCANNED BY BY LASON



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON AND GUTIERREZ RESERVOIRS DON RESERVOIR INLET/OUTLET					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Waste Water		
Hydrology					
DRAWING NO.	21983M41	MAP NO.		SHEET OF	12 15



LAYOUT PLAN
1" = 20'

NOTES

- EXISTING SQUARE D NQOB PANELBOARD.
- MOVE CIRCUIT AND CIRCUIT BREAKER 21 TO SPACE 26 OF EXISTING PANELBOARD IN WELL HOUSE.
- INSTALL NEW 20A, 3 POLE BREAKER IN SPACE 21 OF PANELBOARD.
- IN MINIMUM 2" CONDUIT INSTALL:
3 #12, 1 #12 GND FOR VALVE POWER (LP2-21).
1 #12, 1 #12 GND, 1 #12 NEUTRAL FOR LIGHTS AND RECEPTACLES (LP2-2).
12 #14 FOR VALVE CONTROL (REFERENCE SCHEMATIC AND CONTROL DIAGRAM).
- NEW SQUARE D CLASS 8736, TYPE BAG 4, FORM S., SERIES A1 3HP, 240V, 3 PHASE WITH 120V CONTROL CIRCUIT FVR STARTER TO MATCH EXISTING. MOUNT ON WEST SIDE OF TEMPERATURE SWITCHES.
- CORE DRILL WALL FOR CONDUIT AND BACKFILL WITH SILICON COMPOUND.
- OFF/ON AND CLOSE/STOP/OPEN SELECTOR SWITCHES. ATTACH TO WEST SIDE OF NEW STARTER.
- RUN CONDUIT ON FLOOR UNDERNEATH PIPING THEN VERTICAL TO MOV.

GENERAL NOTES:

- 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 CONTRACT DOCUMENTS. THIS LAYOUT IS PROVIDED FOR GENERAL INFORMATION ONLY. ACTUAL LOCATIONS OF FACILITIES MAY VARY FROM THOSE SHOWN.

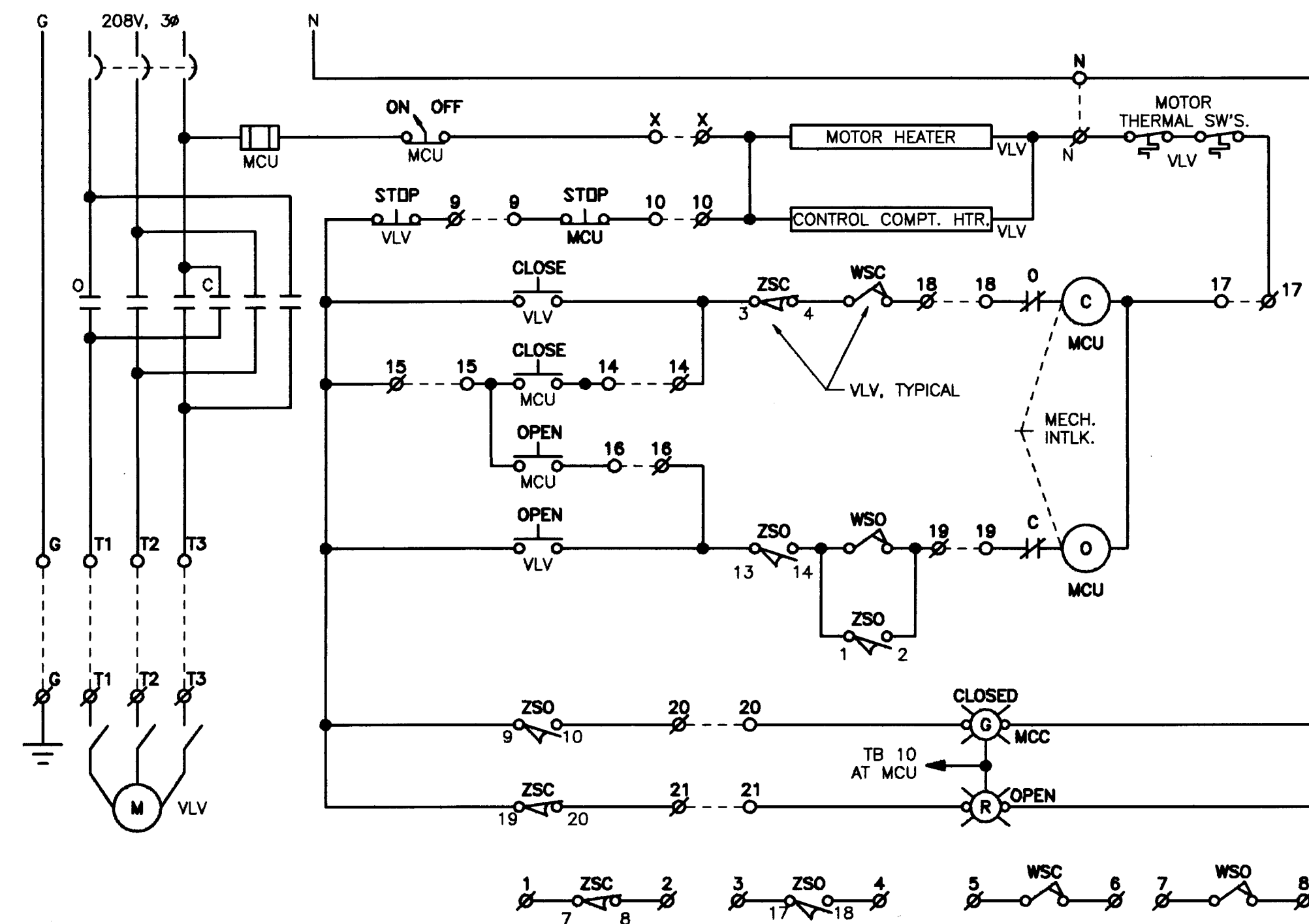
ABBREVIATIONS

NTS NOT TO SCALE
GFI GROUND FAULT INTERRUPT RECEPTACLE
FVR FULL VOLTAGE REVERSING
MOV MOTOR OPERATED VALVE
VLV VALVE
MCU MOTOR CONTROL UNIT

LEGEND

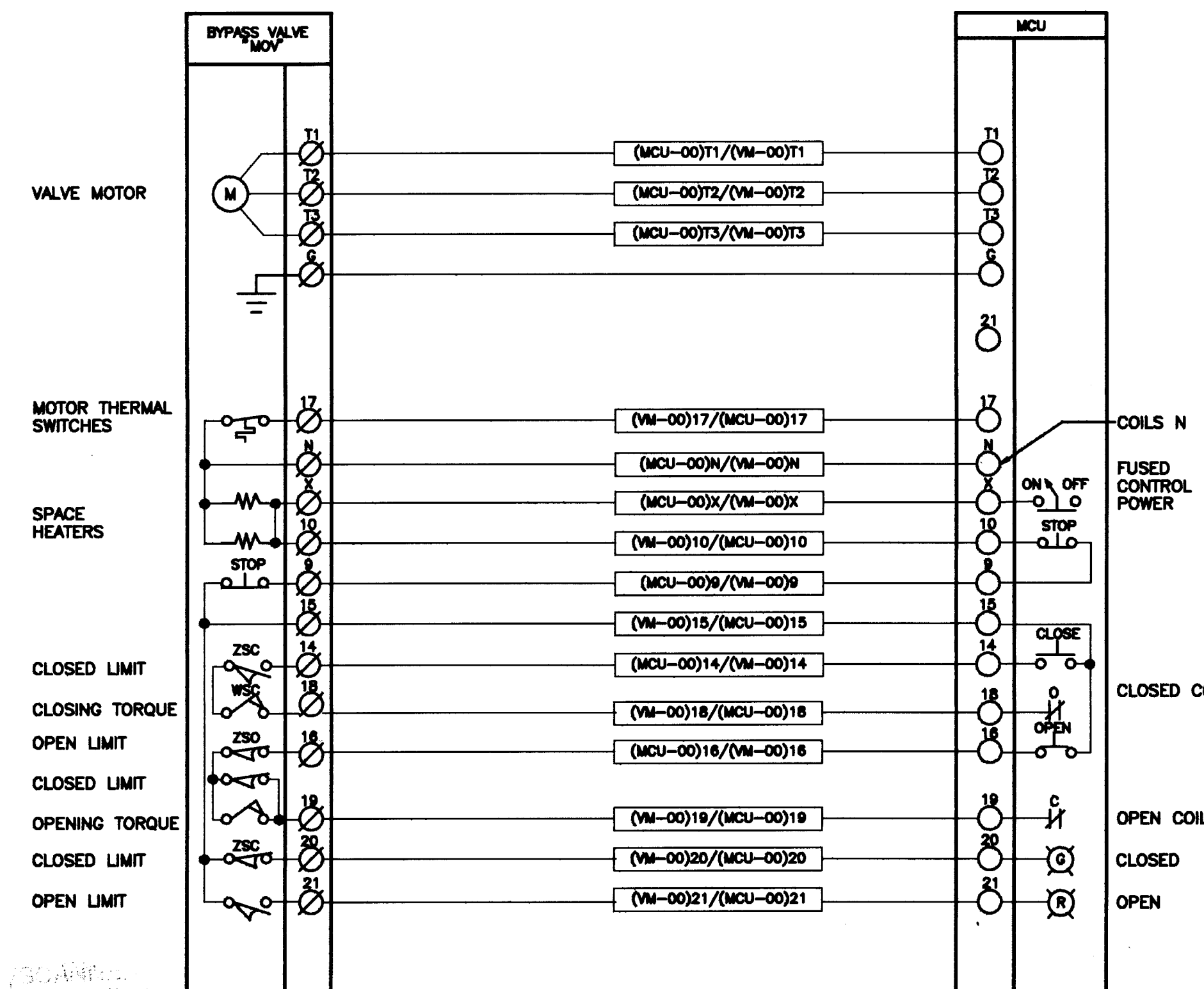
CONDUIT CONCEALED
CONDUIT EXPOSED

VALVE POSITION			
X = CONTACT CLOSE O = CONTACT OPEN			
CONTACT	CLOSE	MID	OPEN
1-2	X	O	O
3-4	O	X	X
7-8	O	X	X
9-10	X	O	O
13-14	X	X	O
17-18	X	X	O
19-20	O	O	X



SCHEMATICS

NOTE: WIRING IN VALVE AND WIRING IN MCU IS SHOWN SOLID.
FIELD WIRING IS SHOWN DASHED.



RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-1-93
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26 4501.901394

VERIFIED SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION DON AND GUTIERREZ RESERVOIRS					
TITLE: GENERAL LAYOUT PLAN DON RESERVOIR - ELECTRICAL					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRAWING NO. 21983E40		MAP NO.		SHEET 13 OF 15	

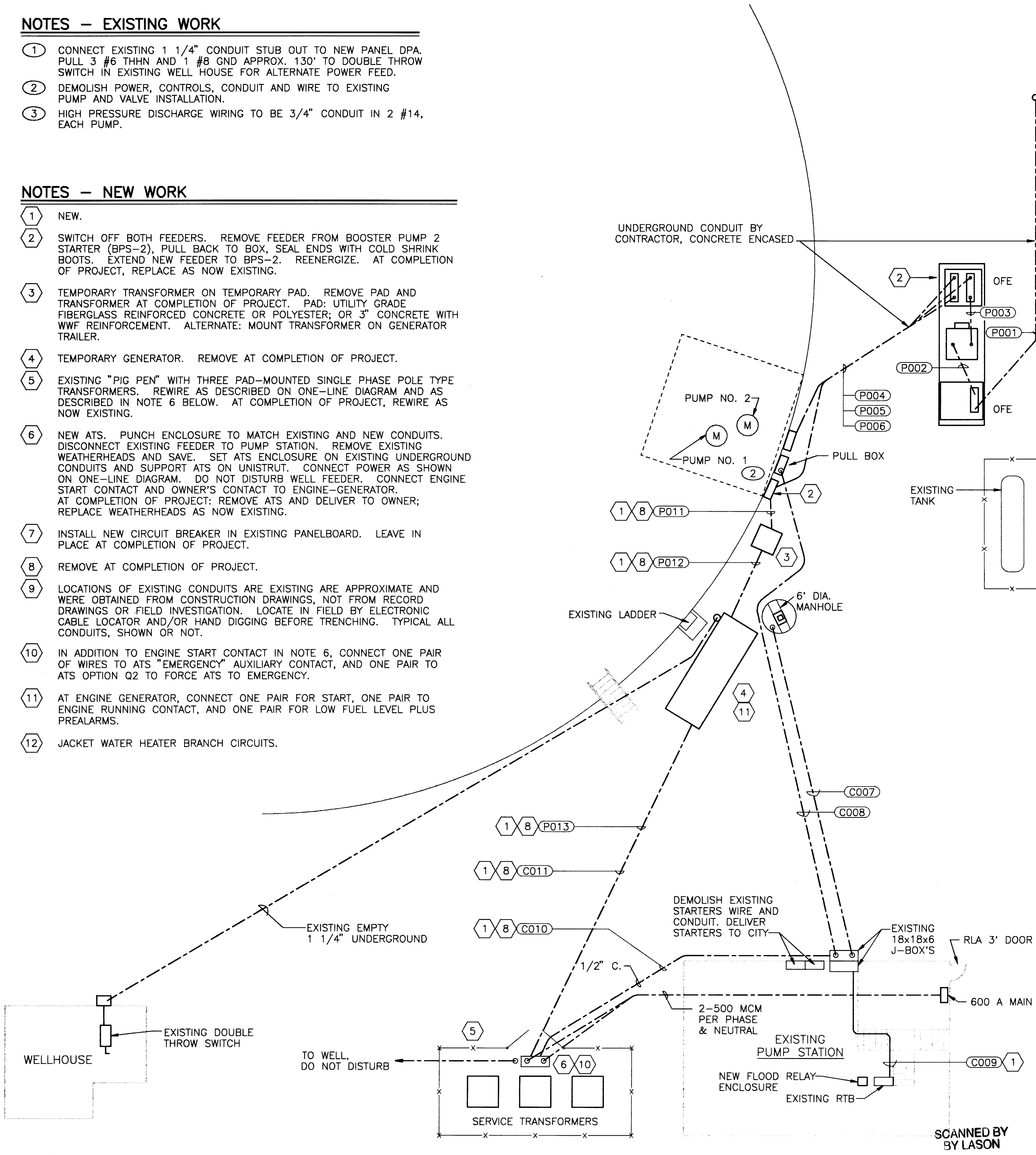


NOTES — EXISTING WORK

- 1 CONNECT EXISTING 1 1/4" CONDUIT STUB OUT TO NEW PANEL DPA. PULL 3 #6 THHN AND 1 #8 GND APPROX. 130' TO DOUBLE THROW SWITCH IN EXISTING WELL HOUSE FOR ALTERNATE POWER FEED.
- 2 DEMOLISH POWER, CONTROLS, CONDUIT AND WIRE TO EXISTING PUMP AND VALVE INSTALLATION.
- 3 HIGH PRESSURE DISCHARGE WIRING TO BE 3/4" CONDUIT IN 2 #14, EACH PUMP.

NOTES — NEW WORK

- 1 NEW.
- 2 SWITCH OFF BOTH FEEDERS. REMOVE FEEDER FROM BOOSTER PUMP 2 STARTER (BPS-2), PULL BACK TO BOX, SEAL ENDS WITH COLD SHRINK BOOTS. EXTEND NEW FEEDER TO BPS-2. REENERGIZE. AT COMPLETION OF PROJECT, REPLACE AS NOW EXISTING.
- 3 TEMPORARY TRANSFORMER ON TEMPORARY PAD. REMOVE PAD AND TRANSFORMER AT COMPLETION OF PROJECT. PAD: UTILITY GRADE FIBERGLASS REINFORCED CONCRETE OR POLYESTER; OR 3" CONCRETE WITH WWF REINFORCEMENT. ALTERNATE: MOUNT TRANSFORMER ON GENERATOR TRAILER.
- 4 TEMPORARY GENERATOR. REMOVE AT COMPLETION OF PROJECT.
- 5 EXISTING "PIG PEN" WITH THREE PAD-MOUNTED SINGLE PHASE POLE TYPE TRANSFORMERS. REWIRE AS DESCRIBED ON ONE-LINE DIAGRAM AND AS DESCRIBED IN NOTE 6 BELOW. AT COMPLETION OF PROJECT, REWIRE AS NOW EXISTING.
- 6 NEW ATS. PUNCH ENCLOSURE TO MATCH EXISTING AND NEW CONDUITS. DISCONNECT EXISTING FEEDER TO PUMP STATION. REMOVE EXISTING WEATHERHEADS AND SAVE. SET ATS ENCLOSURE ON EXISTING UNDERGROUND CONDUITS AND SUPPORT ATS ON UNISTRUT. CONNECT POWER AS SHOWN ON ONE-LINE DIAGRAM. DO NOT DISTURB WELL FEEDER. CONNECT ENGINE START CONTACT AND OWNER'S CONTACT TO ENGINE-GENERATOR. AT COMPLETION OF PROJECT, REMOVE ATS AND DELIVER TO OWNER; REPLACE WEATHERHEADS AS NOW EXISTING.
- 7 INSTALL NEW CIRCUIT BREAKER IN EXISTING PANELBOARD. LEAVE IN PLACE AT COMPLETION OF PROJECT.
- 8 REMOVE AT COMPLETION OF PROJECT.
- 9 LOCATIONS OF EXISTING CONDUITS ARE EXISTING ARE APPROXIMATE AND WERE OBTAINED FROM CONSTRUCTION DRAWINGS, NOT FROM RECORD DRAWINGS OR FIELD INVESTIGATION. LOCATE IN FIELD BY ELECTRONIC CABLE LOCATOR AND/OR HAND DIGGING BEFORE TRENCHING. TYPICAL ALL CONDUITS, SHOWN OR NOT.
- 10 IN ADDITION TO ENGINE START CONTACT IN NOTE 6, CONNECT ONE PAIR OF WIRES TO ATS "EMERGENCY" AUXILIARY CONTACT, AND ONE PAIR TO ATS OPTION Q2 TO FORCE ATS TO EMERGENCY.
- 11 AT ENGINE GENERATOR, CONNECT ONE PAIR FOR START, ONE PAIR TO ENGINE RUNNING CONTACT, AND ONE PAIR FOR LOW FUEL LEVEL PLUS PREALARMS.
- 12 JACKET WATER HEATER BRANCH CIRCUITS.

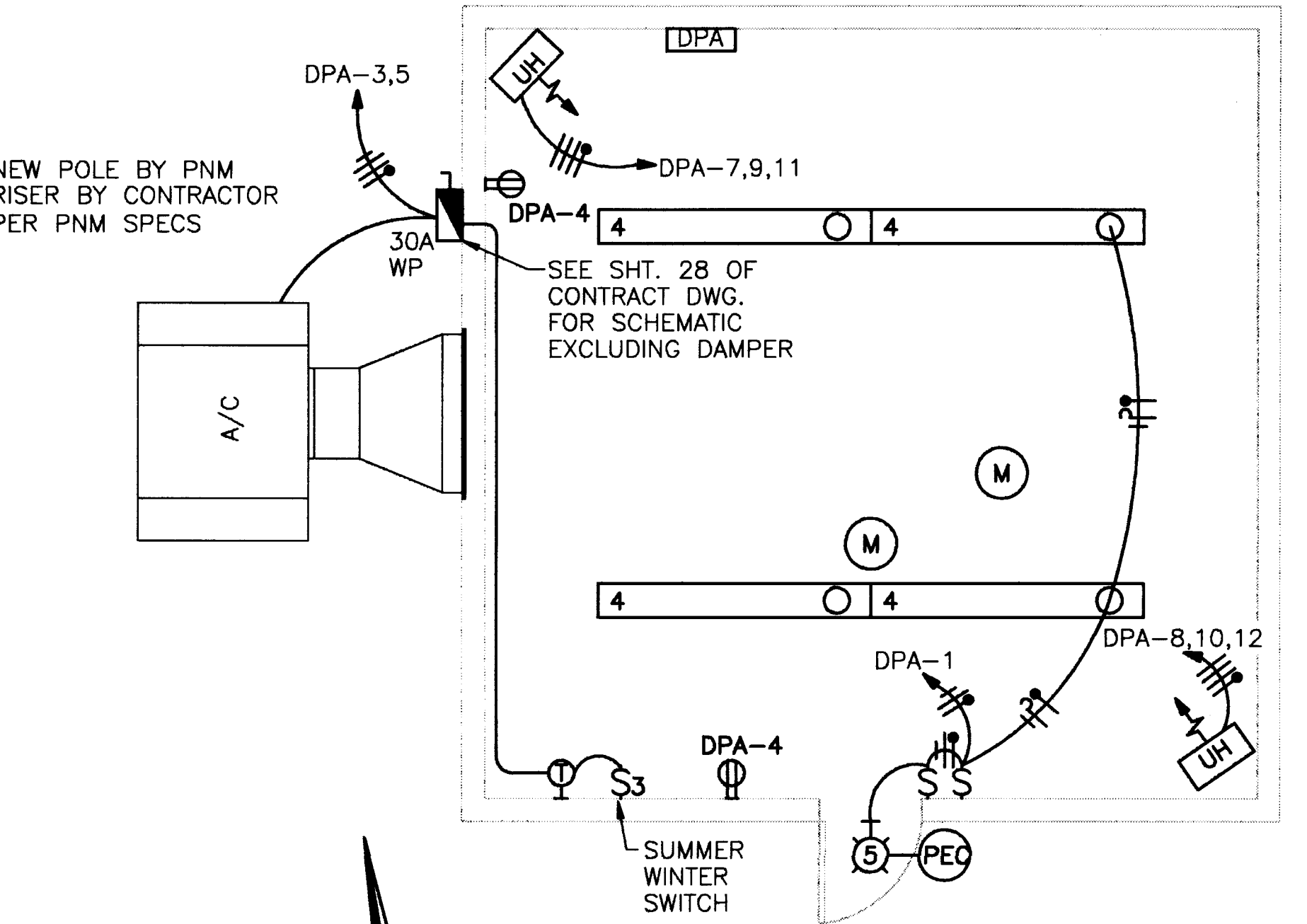


RECORD DRAWINGS

Revisions Drawn by: C. O'NEIL Date: 6-7-93
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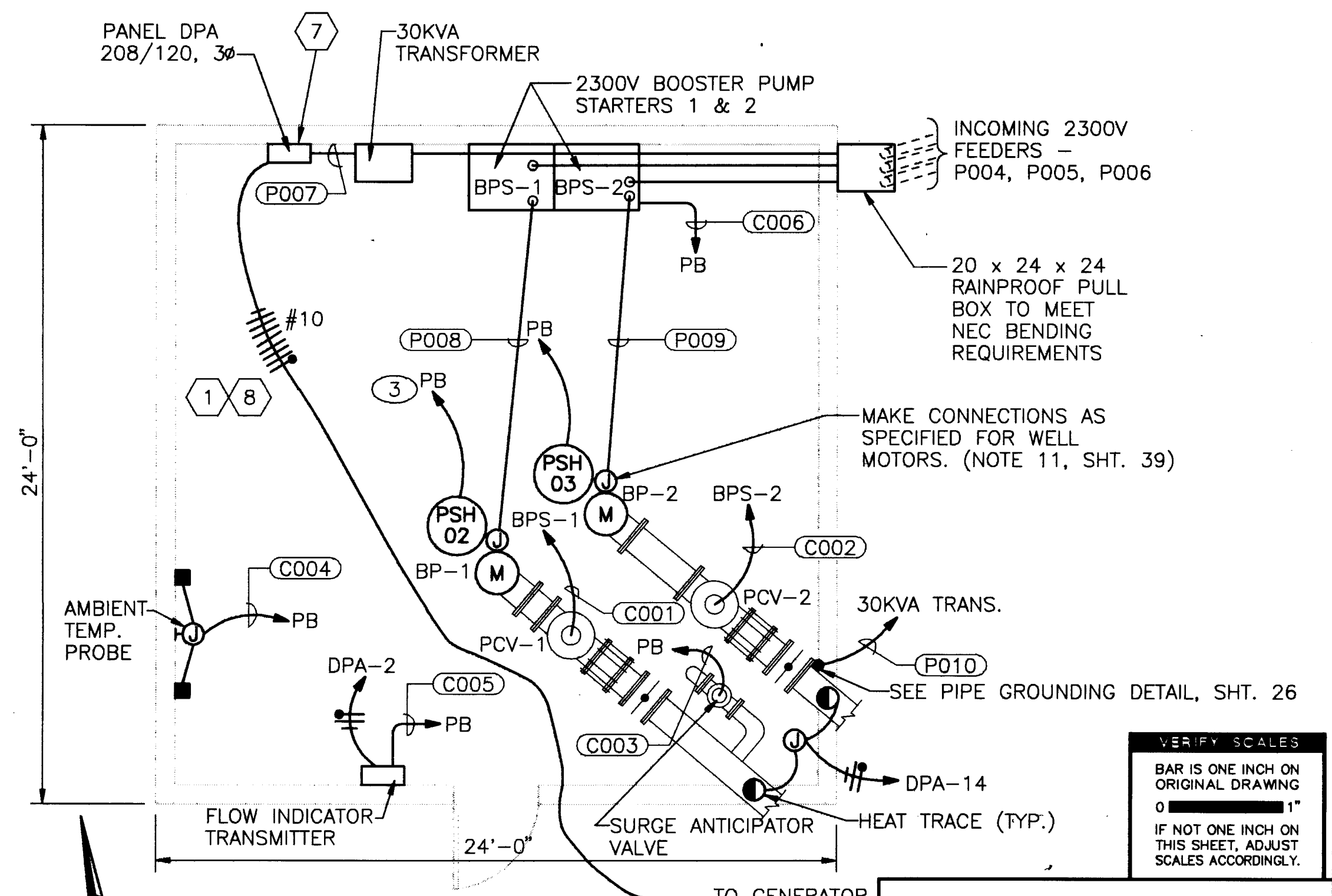
WEST MESA PUMP STATION ELECTRICAL SITE PLAN

SCALE: 1" = 10'



WEST MESA PUMP STATION LIGHTING, HVAC, & RECEPTACLE FLOOR PLAN

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



WEST MESA PUMP STATION POWER & CONTROL FLOOR PLAN

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

NOTE: ALL WORK IS EXISTING EXCEPT WHERE SHOWN NEW BY HEXAGONAL NOTE, TYPICAL TWO SHEETS.



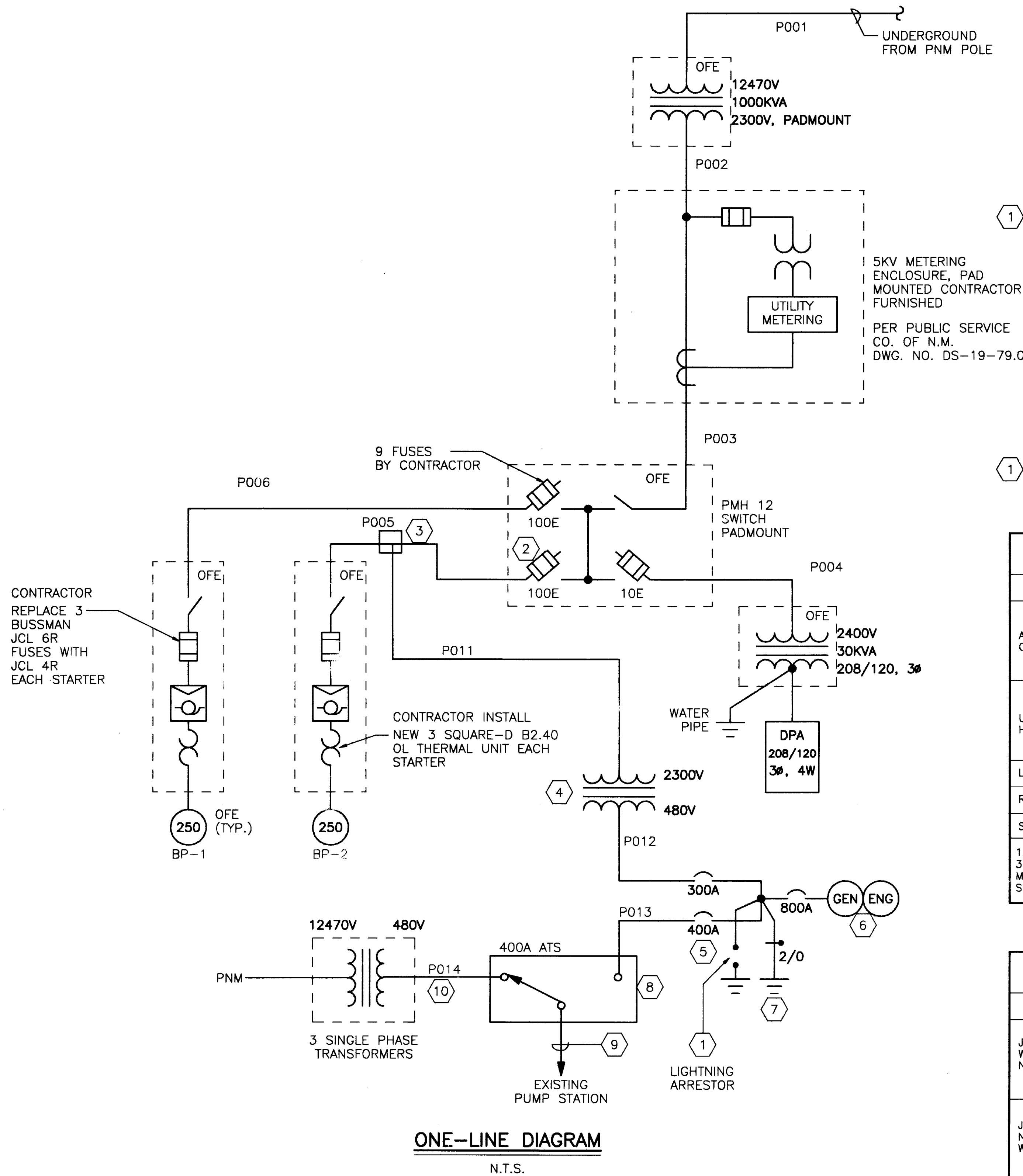
MOLZEN-CORBIN & Associates

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: DON AND GUTIERREZ RESERVOIR
WEST MESA PUMP STATION ELECTRICAL SITE & FLOOR PLANS

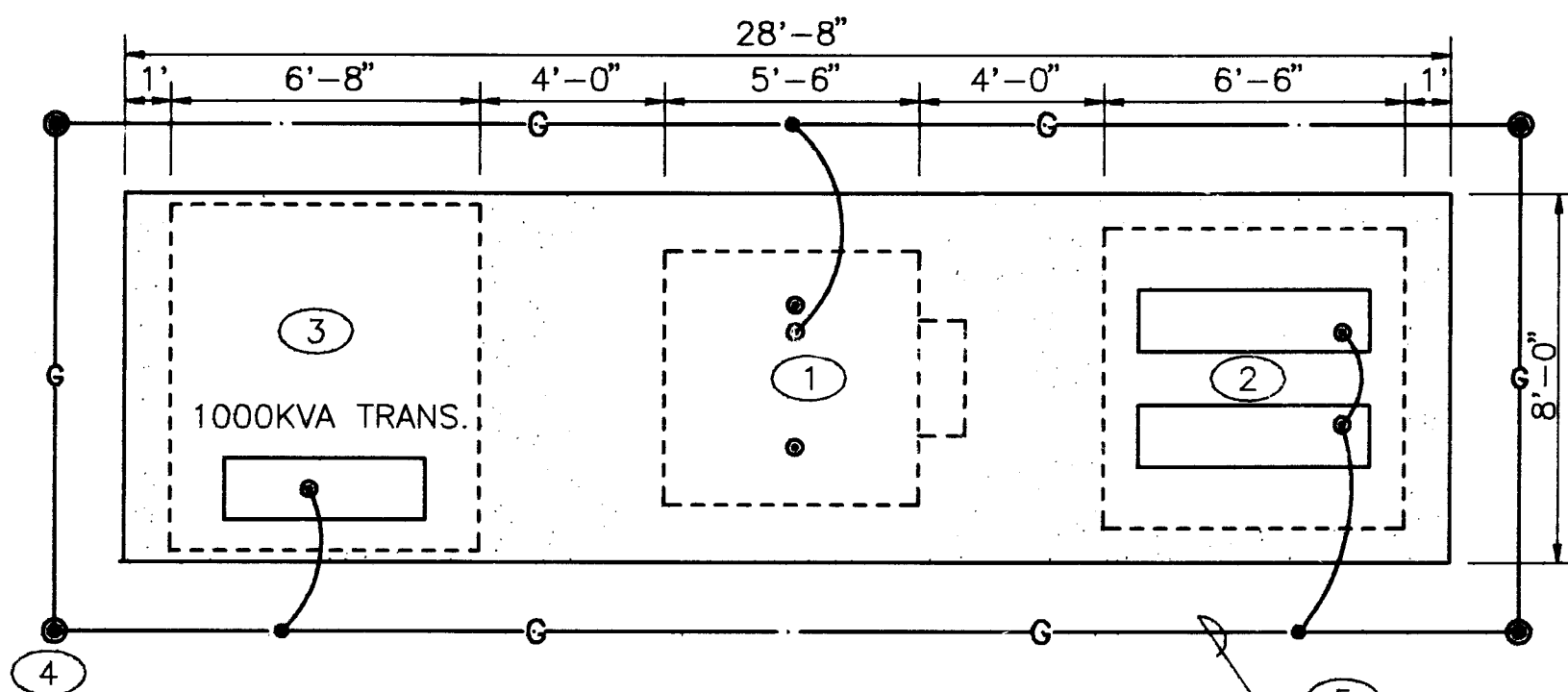
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					

DRAWING NO. WM-E-1 MAP NO. SHEET 14 OF 15



PAD NOTES - EXISTING

- METERING ENCLOSURE PAD TO MEET PNM DETAIL DS-19-79.2, EXCEPT 12" DEEP.
- PMH-12 SWITCH PAD TO MEET PNM DETAIL DS-9-16.0, EXCEPT 12" DEEP.
- TRANSFORMER TO MEET PNM DETAIL DS-7-16.6.
- 5/8" x 8' GROUND ROD, TYPICAL.
- #2 BARE COPPER GROUND WIRE BURIED MINIMUM 24".



SERVICE PAD DETAIL

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

TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
P001	4"	PNM	PNM RISER POLE	1000KVA TRANSFORMER	
P002	3"	PNM	1000KVA TRANSFORMER	METERING ENCLOSURE	
P003	3"	3 #1/0, 5KV & 1 #2 GND	METERING ENCLOSURE	PMH-12 SWITCH	
P004	3"	3 #4, 5KV & 1 #2 GND	PMH-12 SWITCH	30KVA TRANSFORMER	
P005	3"	3 #4, 5KV & 1 #2 GND	PMH-12 SWITCH	BPS-1	
P006	3"	3 #4, 5KV & 1 #2 GND	PMH-12 SWITCH	BPS-2	
P007	1 1/2"	4 #2 THHN & 1 #8 GND	30KVA TRANSFORMER	DPA	
P008	3"	3 #4, 5KV & 1 #2 GND	BPS-1	BP-1	
P009	3"	3 #4, 5KV & 1 #2 GND	BPS-2	BP-2	
P010	1" C	1 #2 BARE COPPER GND	PIPE FLANGE	30KVA TRANS. NEUTRAL	
P011	3"	3 #4, 5KV & 1 #2 GND	TEMP. TRANSFORMER	BPS-2	
P012	3"	3-350 MCM & 1 #2/0 GND	GENERATOR PANELBOARD	TEMP. TRANSFORMER	
P013	4"	3-500 MCM & 1 #2/0 GND	GENERATOR PANELBOARD	ATS	
P014	4"	3-500 MCM & 1 #2/0 GND	480V TRANSFORMER BANK	ATS	

TAG	SIZE	CONDUCTOR	FROM	TO	REMARKS
C001	3/4"	4 #14	PCV-1	BP-1	
C002	3/4"	4 #14	PCV-2	BP-2	
C003	3/4"	2 #14	SURGE ANTICIPATER	TERMINAL J-BOX	
C004	3/4"	4 #14	AMBIENT TEMP. PROBE	TERMINAL J-BOX	
C005	3/4"	1, TYPE 1	FLOW INDICATOR TRANS.	TERMINAL J-BOX	
C006	3/4"	12 #14	BPS-1 & BPS-2	TERMINAL J-BOX	
C007	3/4"	2 #14	FLOOD PROBE-METERPIT	EXISTING 18x18 J-BOX	
C008	1 1/2"	2 TYPE 1, 26 #14	TERMINAL J-BOX	EXISTING RTB	
C009	1 1/2"	12 #14	RTB	EXISTING J-BOX	
C010	1 1/2"	12 #14	EXISTING J-BOX	ATS	EXISTING CONDUIT
C011	3/4"	6 #14	ATS	ENGINE GENERATOR	NEW CONDUIT

PANEL DPA, 3Ø, 208/120V, 4W							
DESCRIPTION		CB	NO	Ø	NO	CB	DESCRIPTION
AIR CONDITIONER		20	1	A	2	20	FIT
			3	B	4	60	WELL #1 ALTERNATE
		3P	5	C	6	2P	
UNIT HEATER		3C	7	A	8	30	UNIT HEATER
			9	B	10		
		3P	11	C	12	3P	
LIGHTING		20	13	A	14	20	HEAT TRACE
RECEPTACLES		20	15	B	16	20	FLOOD PROBE
SPACE			17	C	18		SPARE
120/240 3 PHASE, 4 WIRE, 1Ø CIRCUIT MAIN BREAKER, 125 AMP MAIN SURFACE MOUNT, NEMA 1							
		N		G		11	

PANEL DPA, 3Ø, 208/120V, 4W							
DESCRIPTION		CB	NO	Ø	NO	CB	DESCRIPTION
JACKET WATER HEATER N/C		20	1	A	2	20	FIT
			3	B	4	20	TRICKLE CHARGER
		3P	5	C	6	2P	
JACKET N/C WATER HEATER		20	7	A	8	30	UNIT HEATER
			9	B	10		
		3P	11	C	12	3P	
LIGHTING		20	13	A	14	20	HEAT TRACE
RECEPTACLES		20	15	B	16	20	FLOOD PROBE
TRANSFER PUMP		20	17	C	18		SPARE
120/240 3 PHASE, 4 WIRE, 18 CIRCUIT MAIN BREAKER, 125 AMP MAIN SURFACE MOUNT, NEMA 1							
		N		G		12	

NOTES - NEW WORK

- NEW.
- SWITCH OFF BOTH FEEDERS AND LOCK OFF. REMOVE FUSES FOR BPS-2 AND STORE IN GEAR. PERFORM WORK REQUIRED BY NOTE 3. REENERGIZE FEEDER FOR BPS-1.
- REMOVE FEEDER FROM BOOSTER PUMP 2 STARTER (BPS-2), PULL BACK TO BOX, SEAL ENDS WITH COLD SHRINK BOOTS. EXTEND NEW FEEDER TO BPS-2. AT COMPLETION OF PROJECT, REPLACE AS NOW EXISTING.
- TEMPORARY TRANSFORMER.
- CIRCUIT BREAKER PANEL SUPPLIED WITHIN TEMPORARY GENERATOR HOUSING. REMOVE WITH GENERATOR AT COMPLETION OF PROJECT.
- TEMPORARY GENERATOR.
- INSTALL THREE 5/8" BY 10' GROUND RODS DRIVEN TO 12' DEPTH. SPACE RODS AT LEAST 40' APART. CONNECT TO GROUND BAR AT GENERATOR. REMOVE AT PROJECT COMPLETION. NOT SHOWN ON PLAN VIEW.
- NEW ATS.
- INTERCEPT EXISTING FEEDER FROM TRANSFORMERS TO PUMP STATION AND CONNECT TO ATS.
- EXTEND NEW FEEDER FROM PAD-MOUNTED POLE STYLE TRANSFORMERS TO ATS.
- EXISTING PANELBOARD. RESTORE TO THIS CONDITION AT COMPLETION OF PROJECT.
- MAKE CHANGES SHOWN FOR DURATION OF TEMPORARY POWER SYSTEM.

26 4501.901594

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

MOLZEN-CORBIN & Associates

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION					
TITLE: DON AND GUTIERREZ RESERVOIR WEST MESA PUMP STATION ONE-LINE, PAD DETAIL, & SCHEDULES					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair			Water		
Trans. Dev.			Wastewater		
Hydrology					
DRAWING NO.	WM-E-2	MAP NO.		SHEET OF	15 15

RECORD DRAWINGS

Revisions Drawn by C. O'NEIL Date 6-7-93

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