

Albuquerque District

SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL

ALBUQUERQUE, NEW MEXICO

PLANS FOR CONSTRUCTION OF WELL EQUIPMENT - BURTON WELL NO. 4

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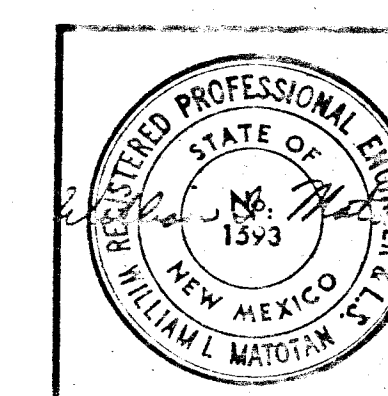
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- 20. PLOT PLAN - EXISTING FACILITIES, WELL & WASHLINE LOCATION
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SOLICITATION NO. DACW47-87-B-0005

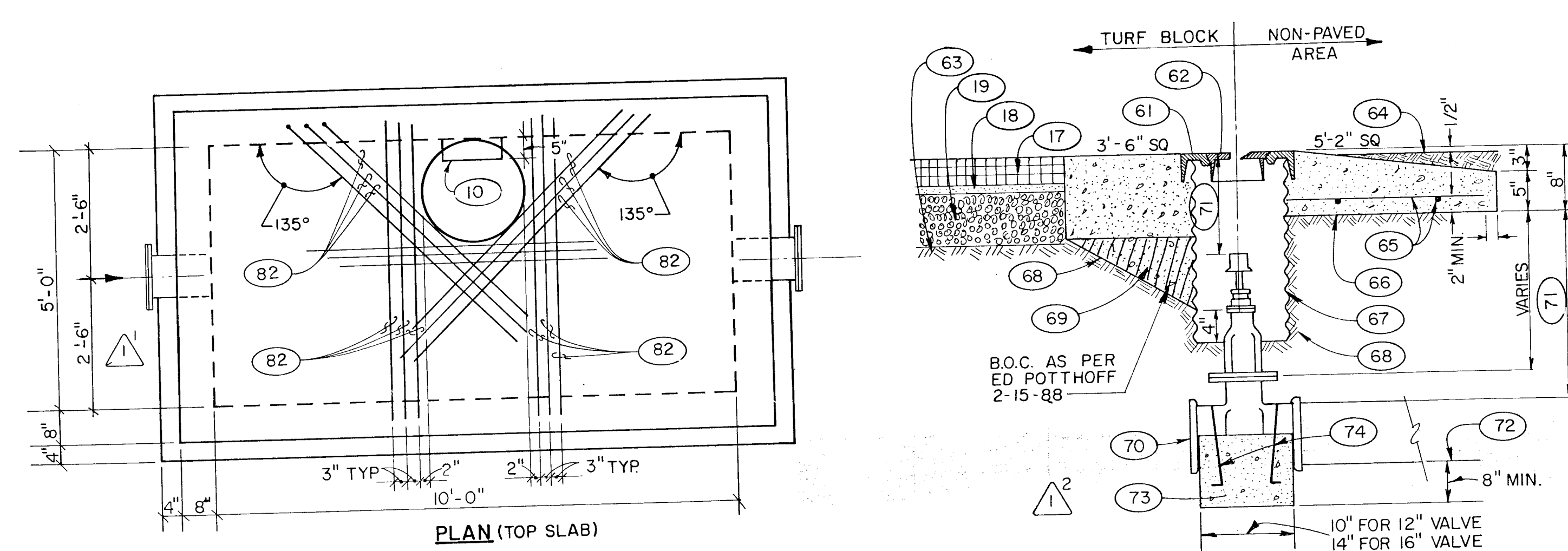
WILLIAM MAYOTAN & ASSOCIATES
ENGINEERS
ALBUQUERQUE, NEW MEXICO

1 2 3 4 5 6 7 8 9 10 11 12
26 30 45 50 11 8 9

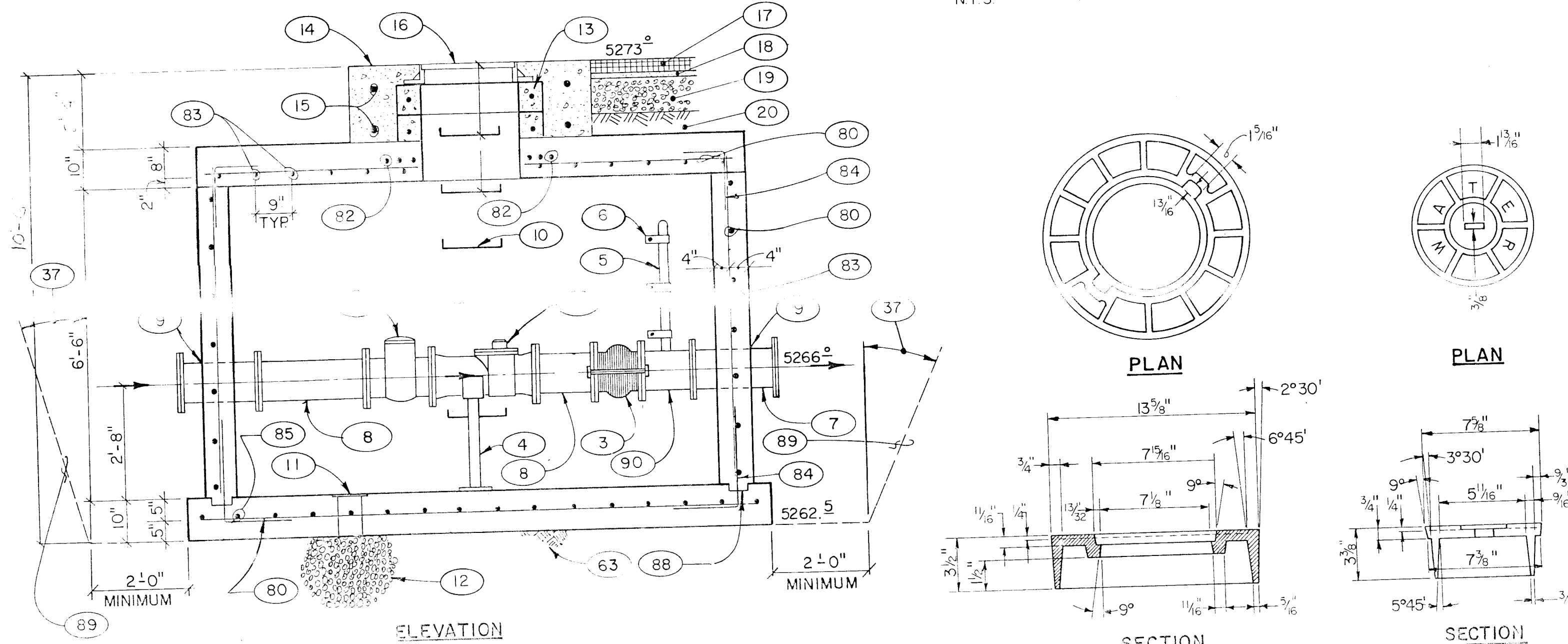
REVISD PLATES "AS BUILT"		WORKS	APPROVAL
SYMBOL	DESCRIPTION	DATE	APPROVAL
SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDICATED ON THIS SHEET.			
SUBMITTED:	APPROVAL - RECOMMENDED:		PLATE 1
7/8. CHIEF, DESIGN BRANCH	CHIEF, ENGINEERING AND PLANNING DIVISION		11
APPROVED: [Signature] COLONEL CORPS OF ENGINEERS, DE DISTRICT ENGINEER			



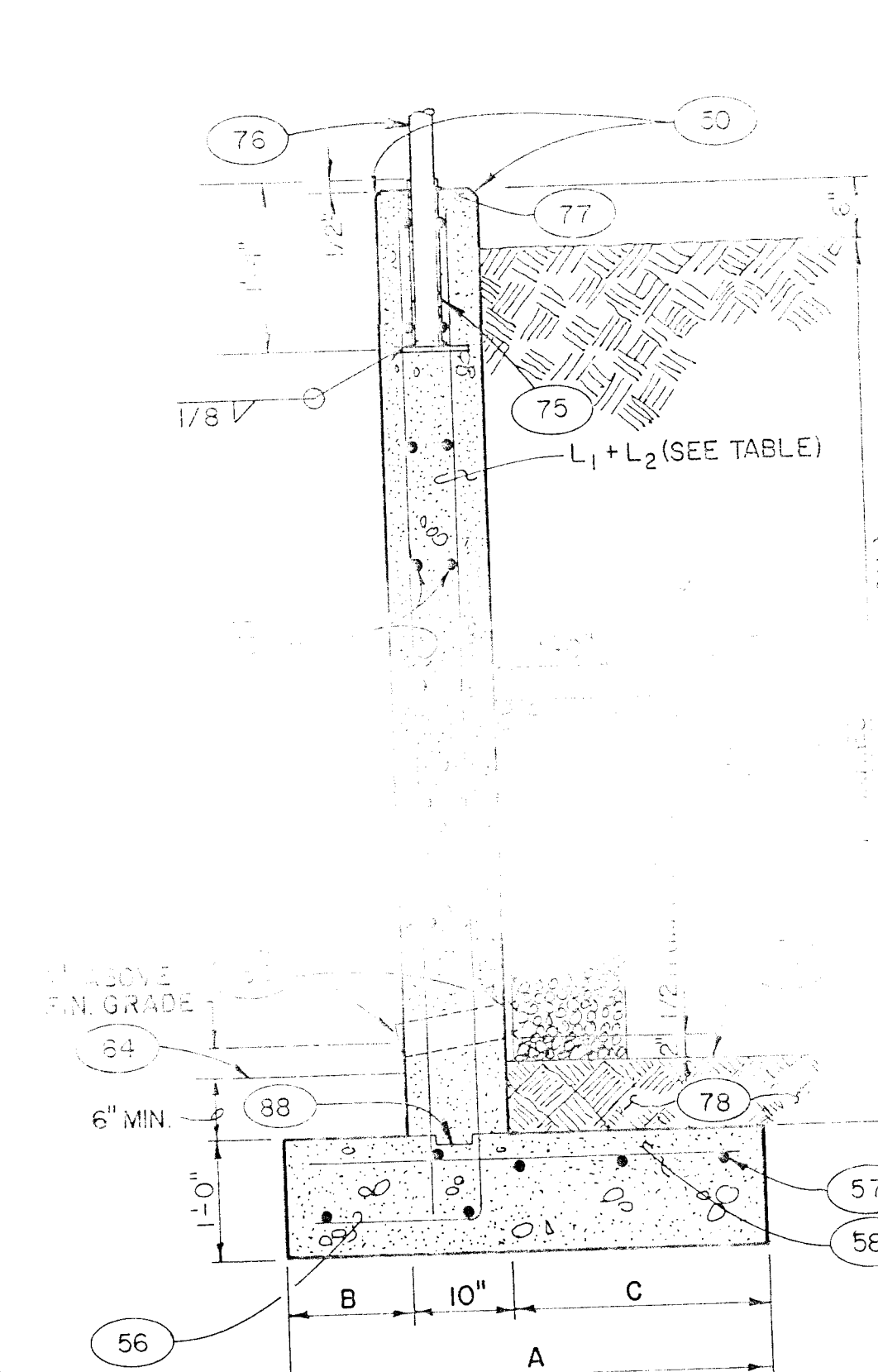




VALVE BOX & ANCHORAGE DETAIL
NTS



VALVE BOX RING & COVER DETAIL
NTS

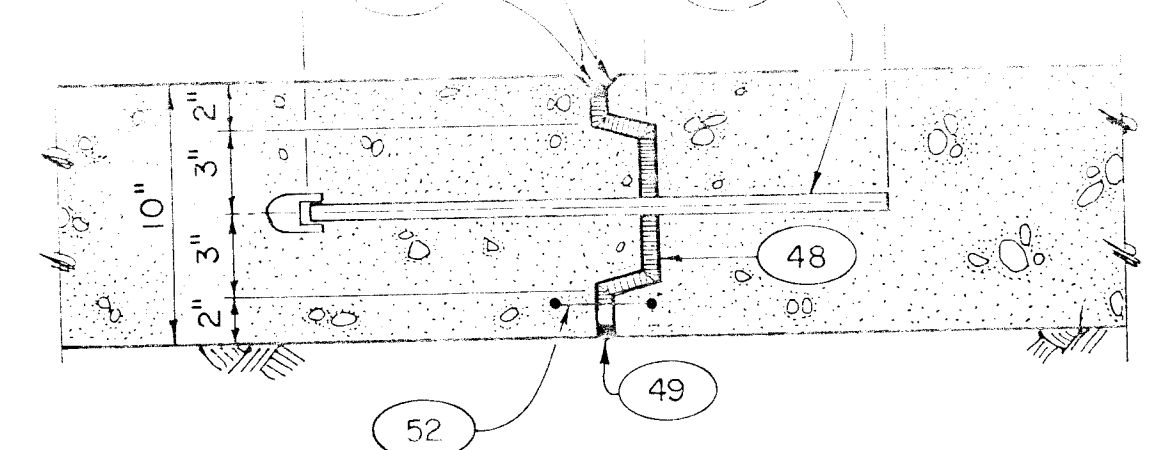


RETAINING WALL BASE AND REINFORCEMENT TABLE

H	A	B	C	L ₁ (SEE DIAGRAM)	L ₂ (SEE DIAGRAM)	HOOK LENGTH
11	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
12	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
13	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
14	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
15	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
16	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
17	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
18	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
19	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
20	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
21	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
22	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
23	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
24	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
25	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
26	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
27	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
28	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
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62	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
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74	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
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85	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
86	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
87	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
88	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
89	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"
90	5'-0"	1'-0"	3'-2"	#4	#4	1'-10"

REINFORCEMENT DIAGRAM

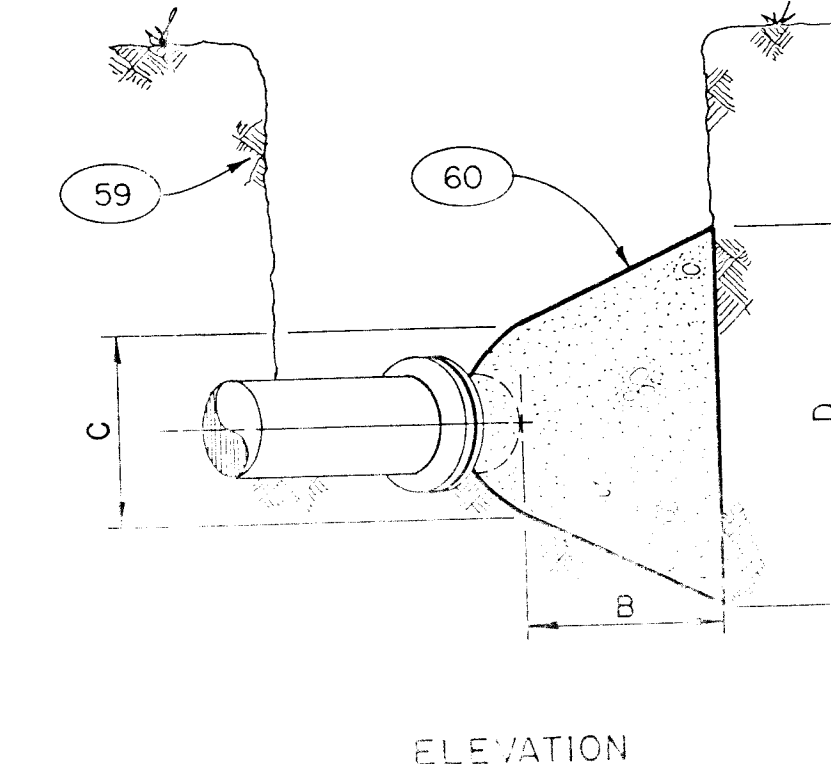
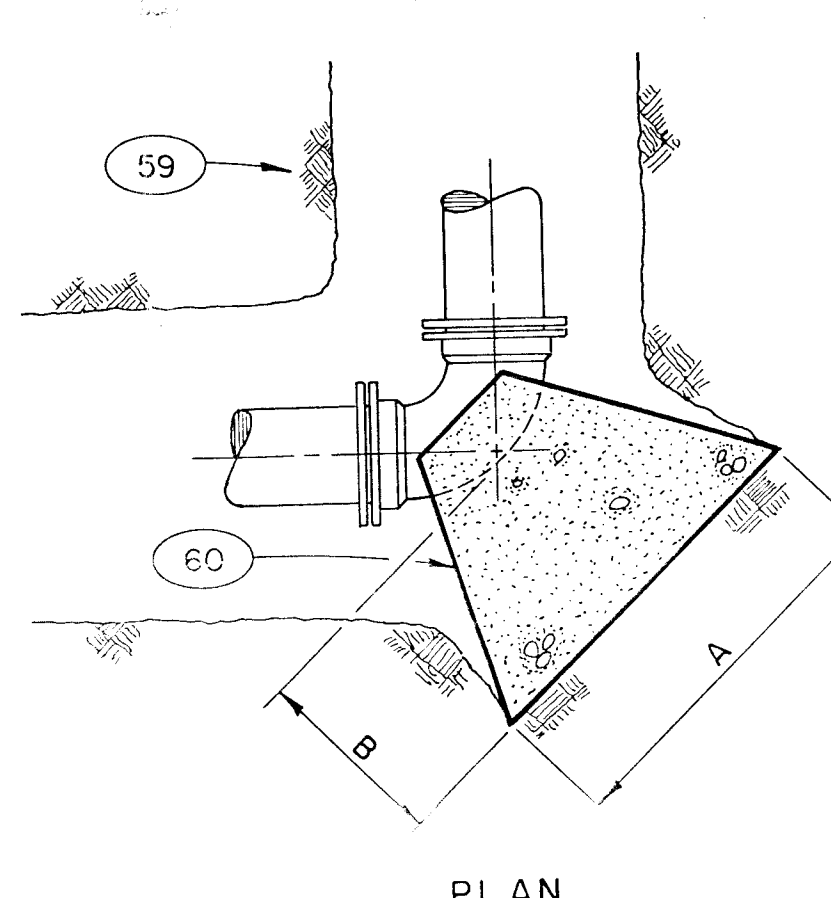
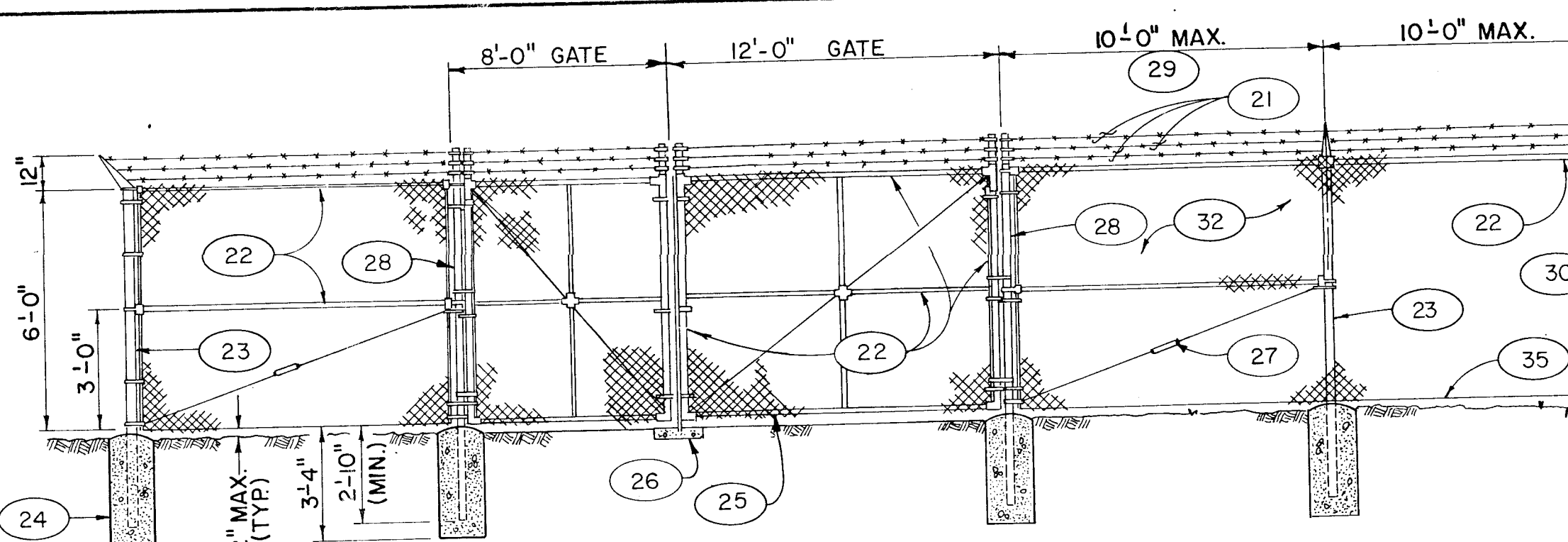
TYPICAL RETAINING WALL CORNER DETAIL
SCALE: 3/4" = 1'-0"



TYPE "A"

TYPICAL TRENCH TERMINOLOGY SECTION
NTS

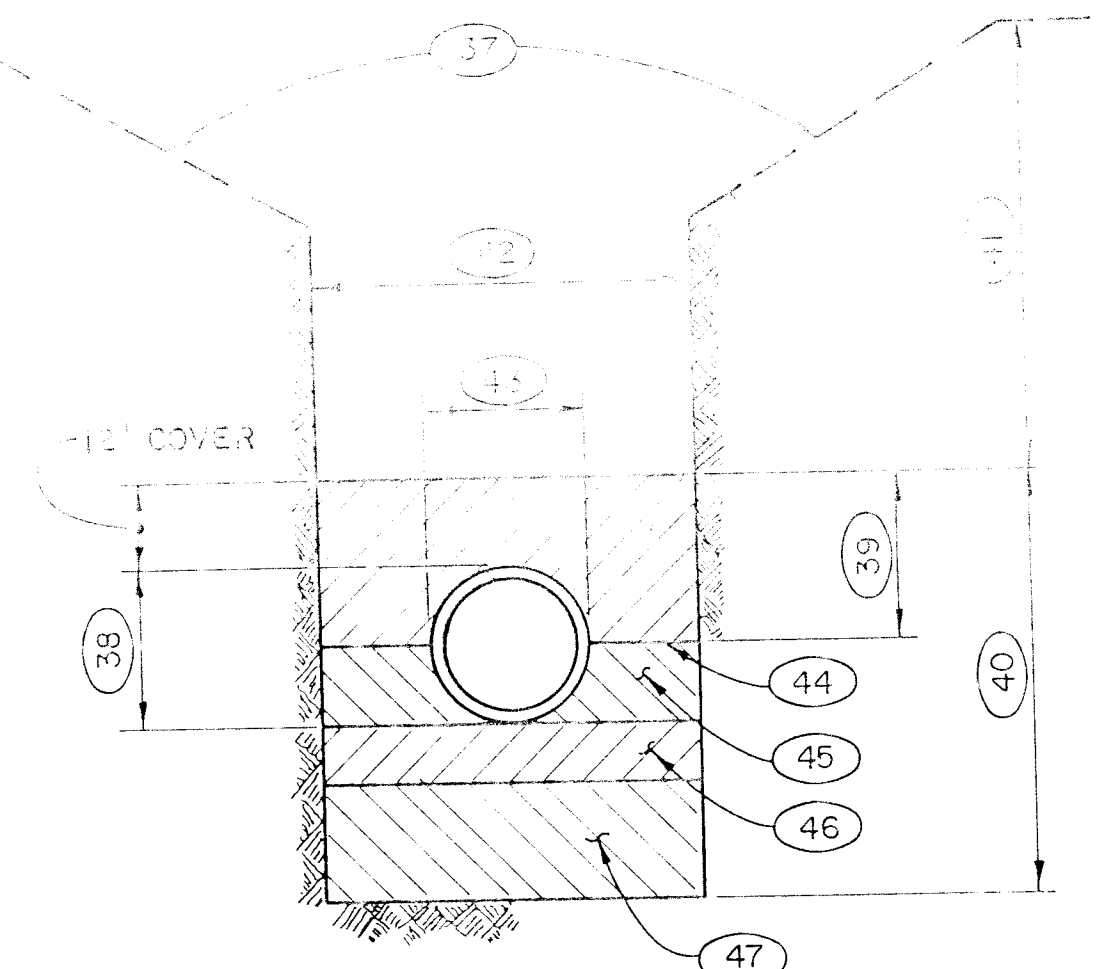
NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS, "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1984.



THRUST BLOCK SIZES

PIPE SIZE	TYPE	A	B	C	D
12"	TEE	3'-6"	2'-0"	1'-4"	3'-6"
12"	45° BEND	3'-6"	2'-0"	1'-4"	3'-6"
12"	90° BEND	4'-0"	2'-0"	1'-4"	4'-0"
16"	TEE	5'-0"	2'-8"	2'-4"	3'-6"
16"	45° BEND	5'-0"	2'-8"	2'-4"	3'-6"
16"	90° BEND	5'-0"	2'-8"	2'-4"	3'-6"
24"	TEE	5'-0"	2'-8"	2'-8"	4'-0"

TYPICAL THRUST BLOCK DETAILS
NOT TO SCALE



TYPE "A"

- KEYED NOTES
- 10" FLOW METER STRAINER
 - 10" TURBO FLOW METER
 - 10" FLEXIBLE COUPLING W/RESTRAINTS
 - 2" DIAMETER PIPE STAND WITH FLOOR FLANGE AND 10" SADDLE
 - CHLORINE SOLUTION LINE
 - STRAP CHLORINE SOLUTION LINE TO METER PIT WALL
 - 10" DIAMETER X 5'-0" FLANGE X FLANGE SPOOL
 - 10" DIAMETER FLANGE X FLANGE SPOOL
 - RUBBER LINK SEAL AROUND SPOOL
 - ALUMINUM MANHOLE STEP - 14" ON CENTER, 5" PROJECTION INTO METER PIT
 - FLOOR DRAIN AS DESCRIBED ON PLATE 14
 - CLEAN GRAVEL DRAIN BED - 14" CUBIC YARD MINIMUM VOLUME
 - 24" ID PRECAST CONCRETE GRADE RINGS, GROUTED TO METER PIT TOP
 - PORTLAND CEMENT CONCRETE AND FINISHED WITH A DOMED SURFACE - 3'-4" MINIMUM DEPTH
 - 5' X 5' CONCRETE COLLAR WITH BROOM FINISH, 3000 PSI CONCRETE
 - 2 LAYERS #4 BAR 4 SIDES AND #4 BAR DIAGONALS EACH LAYER
 - CAST IRON MANHOLE COVER AND RIM, MINIMUM COVER WEIGHT 180 POUNDS, MINIMUM RIM WEIGHT 145 POUNDS, WITH 3/4" VENT HOLE AND "METER" CAST IN COVER IN 1" LETTERS
 - TURF BLOCK WITH SOIL
 - 1" SAND LEVELING BED
 - 4" STABILIZED AGGREGATE BASE COURSE COMPACTED TO 100% MAXIMUM DENSITY
 - SUBGRADE - THICKNESS AS REQUIRED
 - 3 STRANDS BARBED WIRE ON SINGLE OFFSET SUPPORT ARM
 - 1-5/8" O.D. TOP RAILS AND CENTER BRACE RAILS
 - 2-7/8" O.D. POST FOR CORNER OR GATE BRACE BAY
 - 1-4" DIAMETER GATE, CORNER AND BRACE POST HOLE FILLED WITH PORTLAND CEMENT CONCRETE AND FINISHED WITH A DOMED SURFACE - 3'-4" MINIMUM DEPTH
 - 2" O.D. BOTTOM RAIL REQUIRED ON GATES ONLY
 - 1-4" SQUARE BY 4" DEEP CONCRETE GATE KEEPER
 - 3/8" O.D. TRUSS ROD WITH TURN BUCKLE - REQUIRED ALL CORNER AND GATE BRACE BAYS
 - 4" O.D. GATE POST
 - CORNER OR GATE BRACE BAY - TYPICAL
 - 2-1/2" O.D. LINE POST
 - 1-4" DIAMETER LINE POST HOLE FILLED WITH PORTLAND CEMENT CONCRETE AND FINISHED WITH DOMED SURFACE - 3'-4" MINIMUM DEPTH
 - 2-7/8" O.D. POST FOR CORNER OR GATE BRACE BAY
 - FINISHED GRADE ELEVATION - VARIES
 - TOP OF TOP RAIL
 - BOTTOM OF FABRIC WIRE REINFORCEMENT REQUIRED ON ALL SECTIONS EXCEPT GATE - 2" MAXIMUM ABOVE FINISH GRADE
 - GATE, LINE OR BRACE POST
 - SEE GENERAL NOTE 3, SITE NOTES C, PLATE 4
 - PIPE ZONE
 - INITIAL BACKFILL - TO 12" ABOVE TOP OF PIPE
 - PIPE EMBEDMENT
 - FINAL BACKFILL
 - TRENCH WIDTH - SEE SPECIFICATIONS FOR DIMENSIONS
 - PIPE WIDTH
 - PIPE SPRINGLINE
 - HAUNCHING
 - BEDDING - MINIMUM 4" COMPACTED THICKNESS OR AS REQUIRED TO BRING TRENCH BOTTOM UP TO GRADE
 - PIPE FOUNDATION REQUIRED ONLY IF UNYIELDING OR UNSTABLE MATERIAL MUST BE REMOVED FROM TRENCH BOTTOM
 - 1-1/2" PREMOULDED EXPANSION JOINT MATERIAL
 - SEALANT
 - 3/4" CHAMFER TYPICAL ALL EXPOSED CORNERS
 - 3/4" DIAMETER SMOOTH DOWEL AT 1'-0" ON CENTER LENGTH AS INDICATED WITH EXPANSION CAP SLIP FIT
 - WATER STOP TYPICAL FROM FOUNDATION TO TOP OF WALL
 - #4S @ 1'-0" ON CENTER
 - 1/2" GRAVEL FILL ENCLOSED IN FILTER FABRIC (MIRAFI 1405 OR EQUAL) INSTALL PER MANUFACTURER'S RECOMMENDATIONS
 - WEEP HOLE 4" DIAMETER @ 8'-0" ON CENTER WITH #4 MESH GALVANIZED SQUARE MESH WIRE CLOTH - 9 GAGE MINIMUM WIRE DIAMETER AS MANUFACTURED BY MCGOUGH'S CO. OR APPROVED EQUAL
 - VERTICAL INSIDE FACE REINFORCEMENT - SEE TABLE FOR HOOK LENGTH AND BAR HEIGHT
 - #4S SIX REQUIRED AS INDICATED
 - #4S @ 1'-0" ON CENTER, LENGTH IS "A" MINUS 6" TYPICAL
 - UNDISTURBED EARTH
 - 3000 PSI CONCRETE
 - VALVE BOX RING
 - VALVE BOX COVER
 - 8" SUBGRADE COMPACTED TO 100% MAXIMUM DENSITY
 - FINISHED GROUND LEVEL
 - #4 BARS @ 12" ON CENTER EACH DIRECTION WITH DIAGONALS AROUND OPENING
 - 3000 PSI CONCRETE COLLAR, 5' X 5'
 - 12" DIA CORRUGATED GALVANIZED PIPE, 14 GAGE, DIPPED IN COAL TAR ENAMEL OR 3 MIL POLYMERIC COATING
 - COMPACTED EARTH FILL
 - 3000 PSI CONCRETE COLLAR ON SURFACE WITH BROOM FINISH
 - NEW VALVE
 - 18" MAXIMUM DEPTH, USE EXTENSION AS NECESSARY
 - TOP OF BEDDING
 - 3000 PSI ANCHORAGE BLOCK EXTENDING FULL TRENCH WIDTH
 - #4 BARS WITH 3" HOOKS EMBEDDED 6" BELOW BOTTOM OF VALVE
 - 1-4" PIPE SLEEVE (DIAMETER AS REQUIRED FOR CHAIN LINK FENCE POST PLUS 1/4" MIN. GROUT ALL AROUND) WITH 5' X 6' X 1/8" STEEL PLATE WELDED ON BOTTOM
 - CHAIN LINK FENCE POST
 - FILL COMPLETELY WITH EXPANSIVE GROUT
 - COMPACTED EARTH FILL
 - 3" WIDE VAPOR BARRIER BELOW ALL GRAVEL FILL
 - #4S @ 1'-0" ON CENTER
 - #4S @ 6" ON CENTER INSIDE AND OUTSIDE FACES AS SHOWN, CONTINUOUS FROM TOP TO BOTTOM OF WALL - SEE ITEM 56 FOR INSIDE BAR HOOK LENGTH
 - 15 #5S 5'-6" LONG, POSITION AS INDICATED AT CENTER OF SLAB. SEE PLAN VIEW FOR SPECIFIC LOCATION
 - #5S @ 9" ON CENTER
 - #4 DOWELS 3'-0" X 3'-0" @ 9" ON CENTER, CENTER IN HALL AND SLAB
 - #4S @ 9" ON CENTER
 - #4S @ 1'-0" ON CENTER X 10'-0" LONG, THESE ARE IN ADDITION TO ITEM #53
 - #4 CORNER BARS 2'-0" X 2'-0" @ 9" ON CENTER, TIE TO INSIDE HORIZONTAL BARS
 - SHEAR KEY - 3'-1/2" X 1'-1/2", TYPICAL
 - MINIMUM LINE OF EXCAVATION
 - 10" DIAMETER X 1'-0" FLANGE X FLANGE SPOOL WITH 1" TAP AND CORROSION STOP LOCATED 43" BELOW SPRINGLINE, CONNECT CHLORINE SOLUTION LINE TO CORROSION STOP.

DESIGNED BY: WILLIAM MATOTAN & ASSOCIATES, INC. ENGINEERS
210 Tenth Ave., Suite 100, P.O. Box 305125, Albuquerque, NM 87131-0125
360/265-3467

DRAWN BY: R.A. B. J.W.

CHECKED BY: W.L.M.

DATE: APRIL 1997

PROJECT: SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL, ALBUQUERQUE, NEW MEXICO

WELL EQUIPMENT - BURTON WELL NO. 4

CIVIL DETAILS

SOL. NO. DACW47-87-B-0005
FILE NUMBER

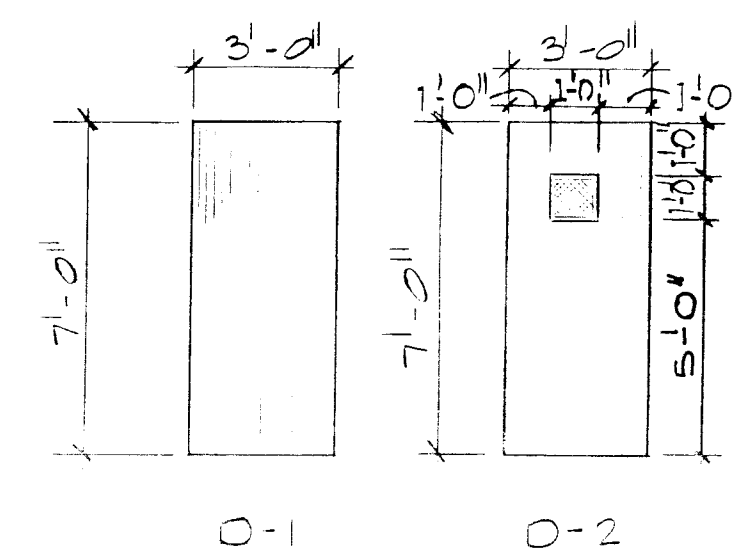
PLATE 6.1

CITY OF ALBUQUERQUE PROJECT NO. 3065

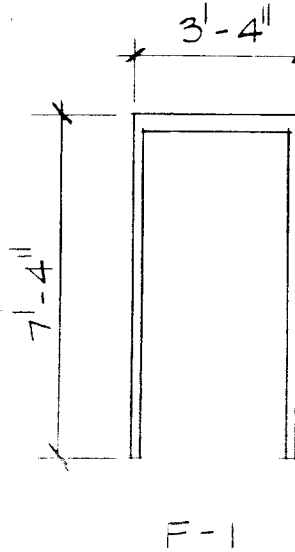
DOOR SCHEDULE

DOOR NO	DOOR					FRAME					FIRE RATING	HARDWARE	
	SIZE					LOWER						SET NO	
	W	H	T	MAT.	TYPE	GLASS	W	H	MAT.	TYPE	JAMB	HEAD	SILL
A	3'-0"	7'-0"	1 3/4"	H.M.	D-2	WIRE GLASS			MTL	F-1	3/8" x 1 1/8"	NOTE 1	
B	3'-0"	7'-0"	1 3/4"	H.M.	D-1	NONE			MTL	F-1	3/8" x 1 1/8"	2 1/8"	
C	3'-0"	7'-0"	1 3/4"	H.M.	D-1	NONE			MTL	F-1	3/8" x 1 1/8"	2 1/8"	

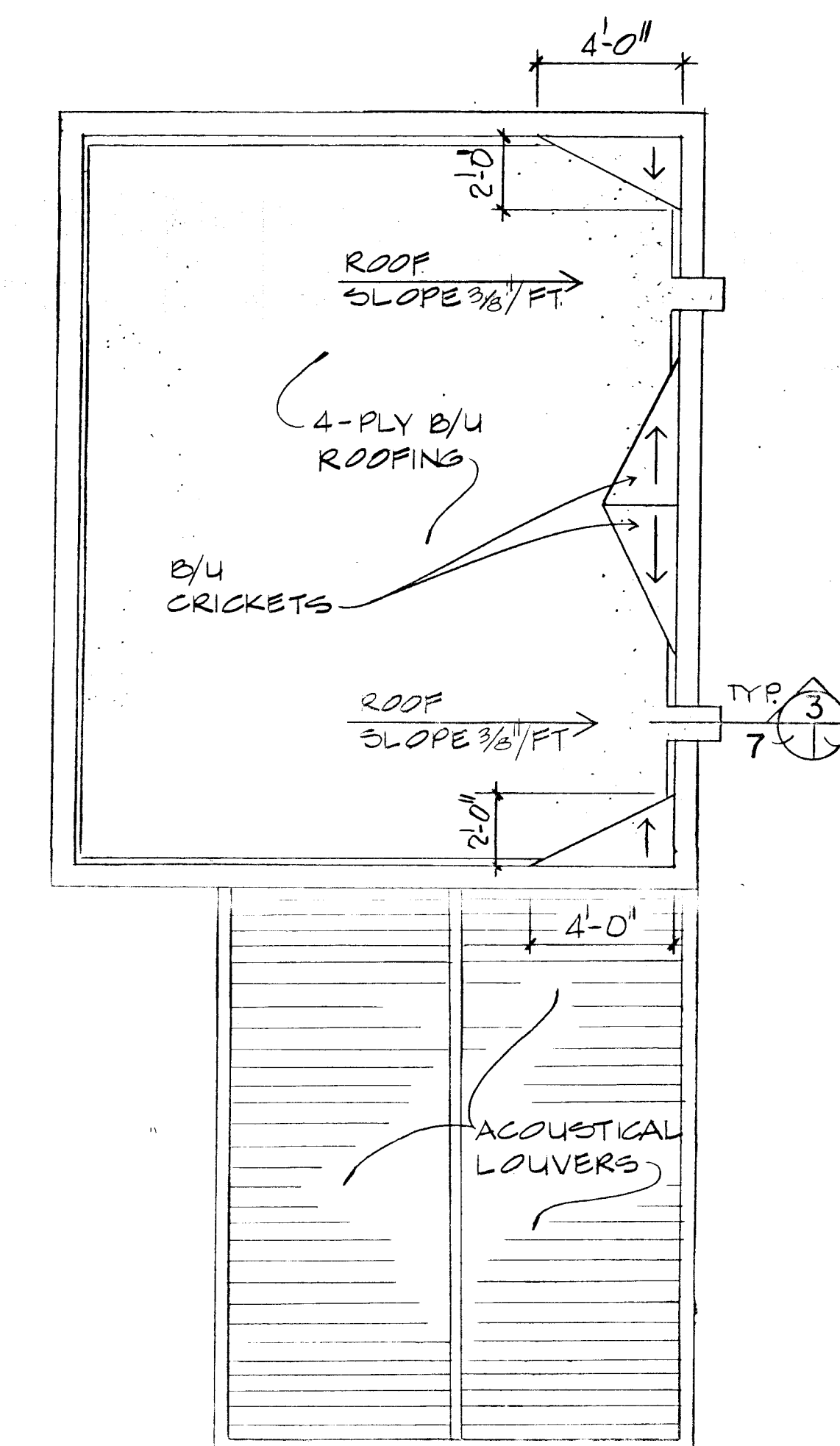
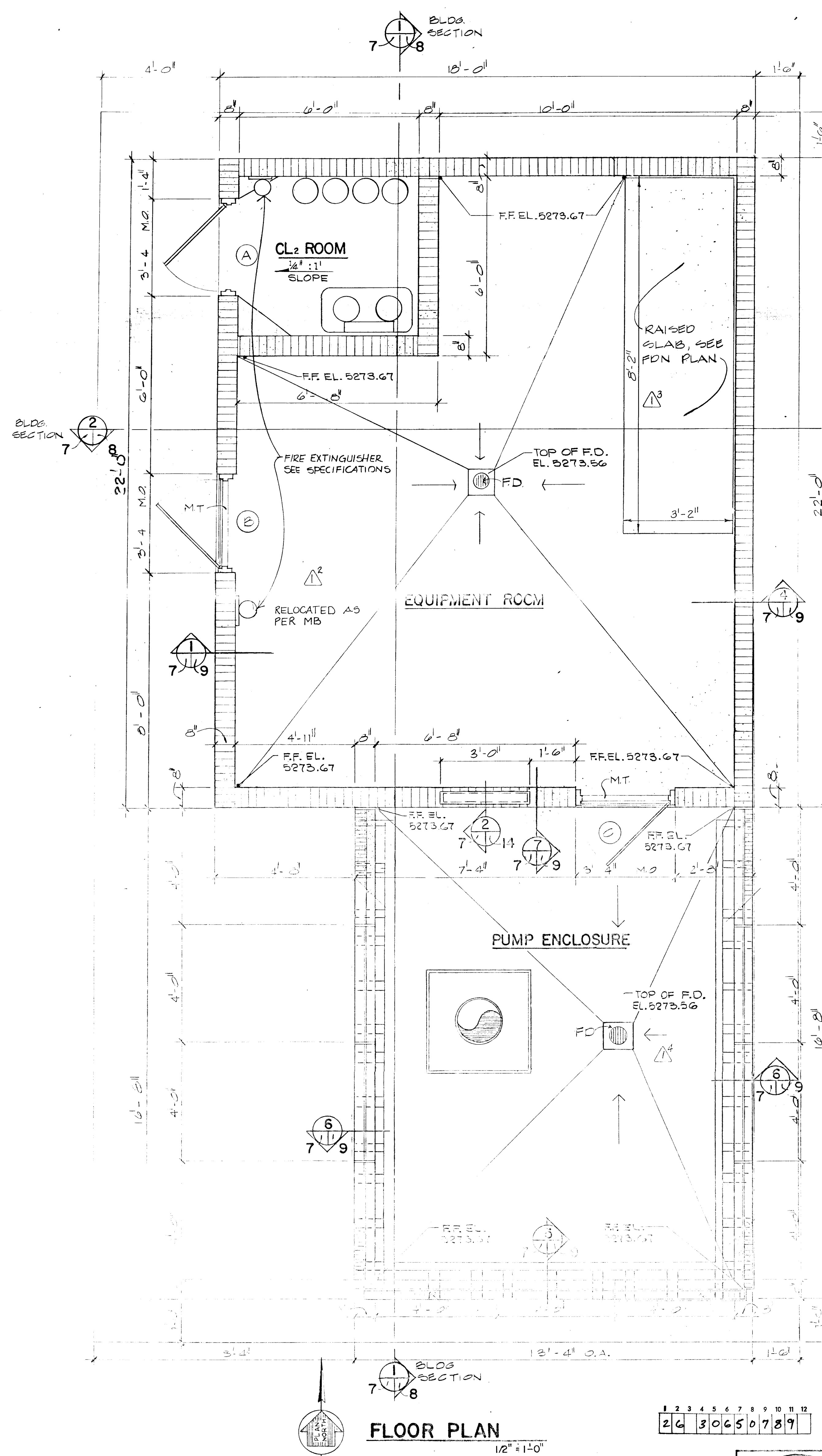
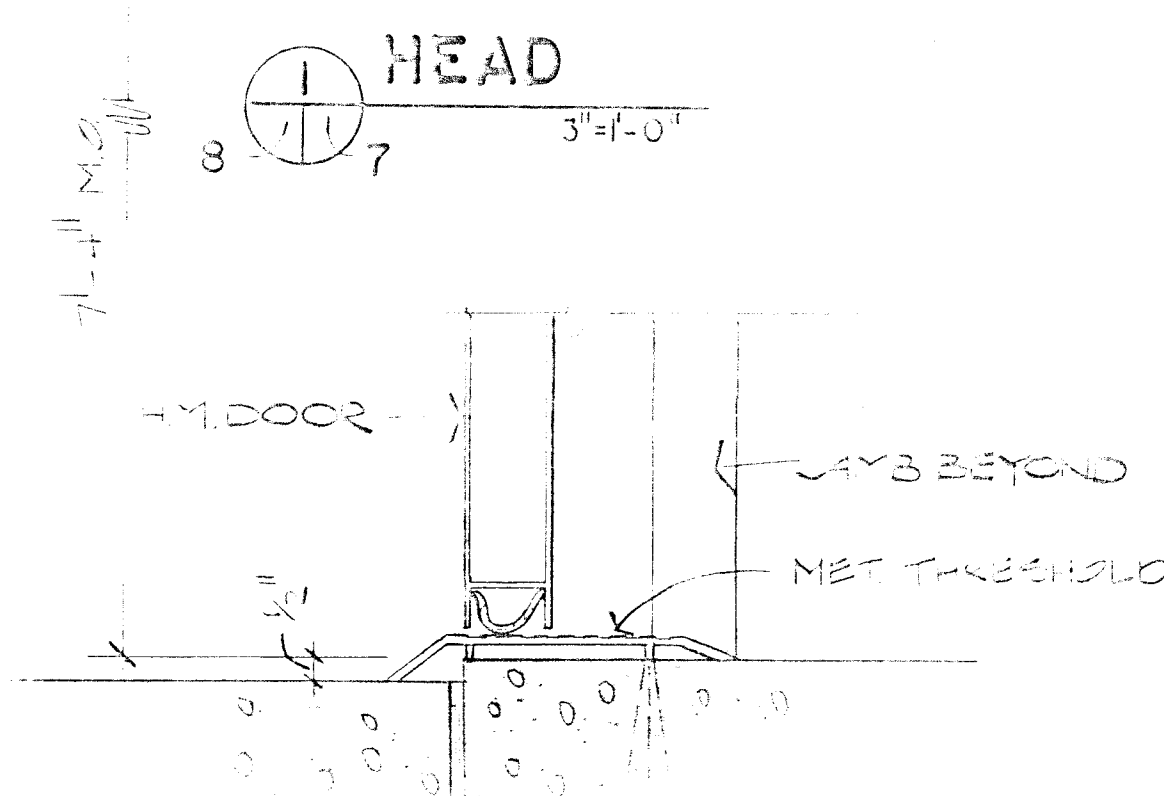
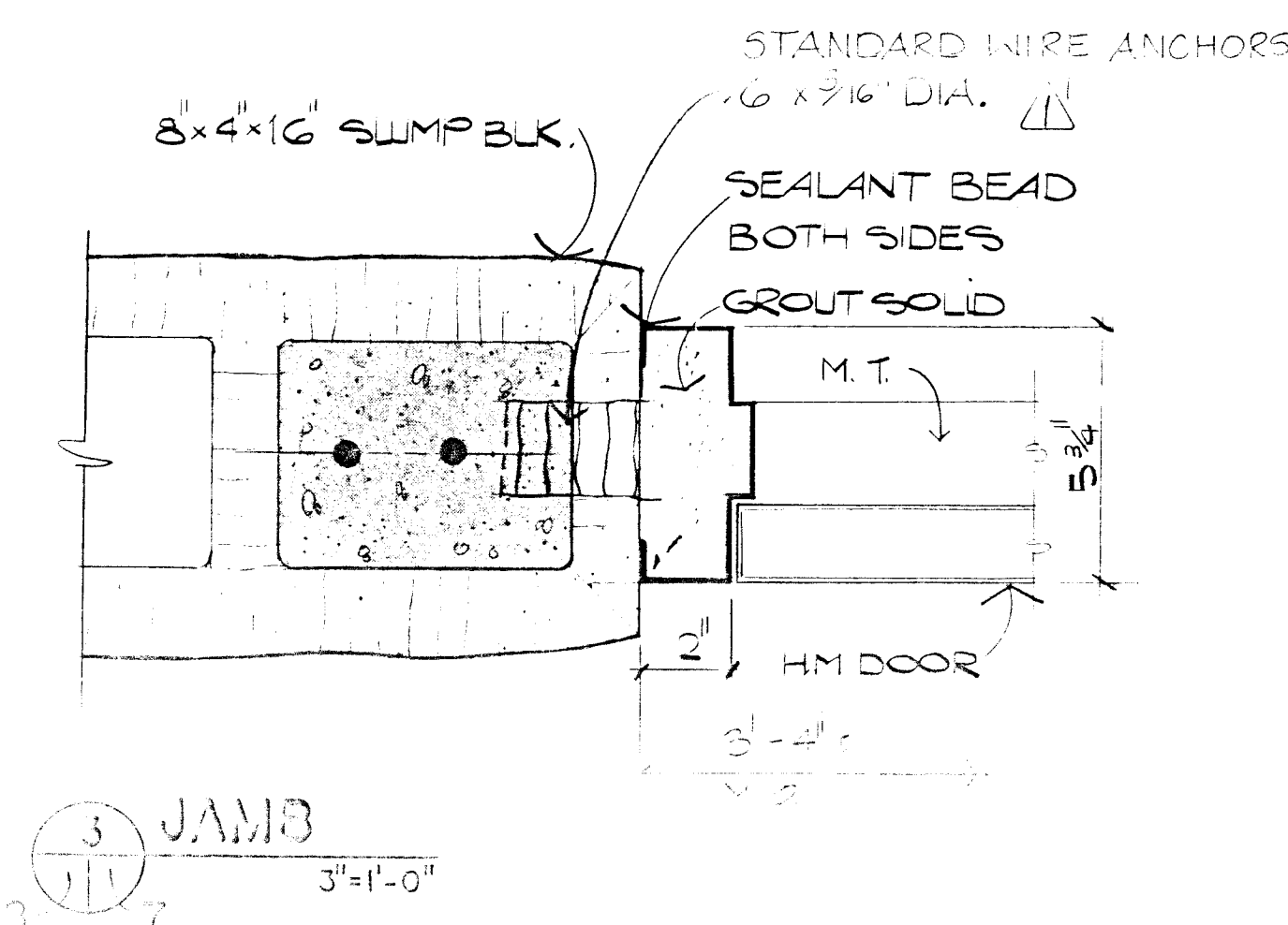
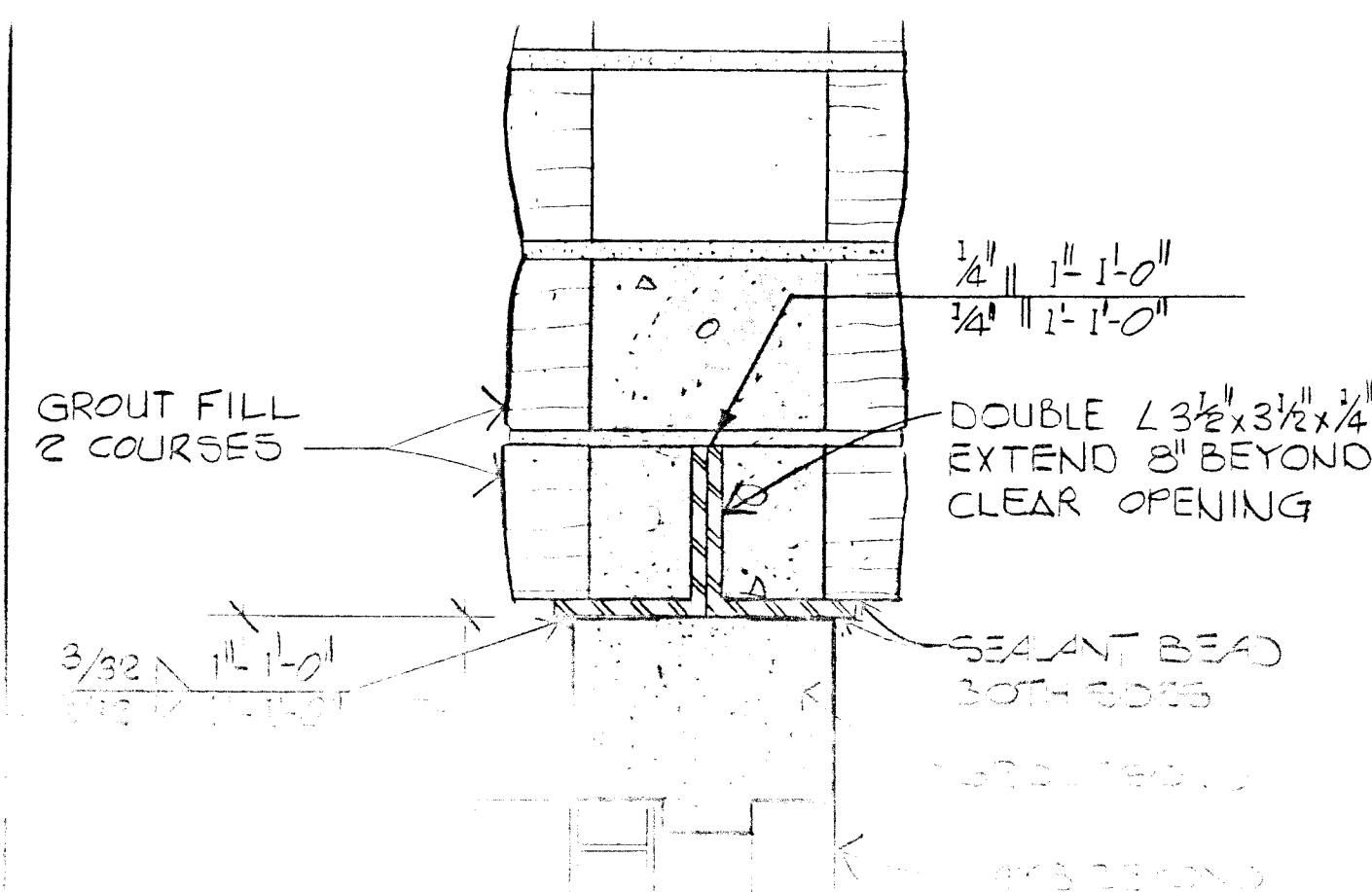
DOOR TYPES



FRAME TYPES

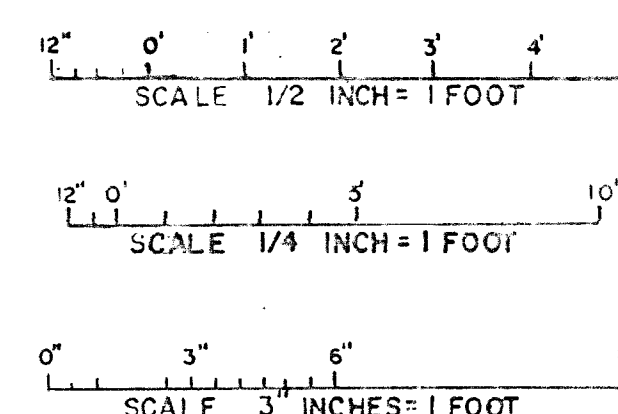


NOTE 1: SAME AS 2/6/7 EXCEPT DELETE THRESHOLD



ROOF PLAN

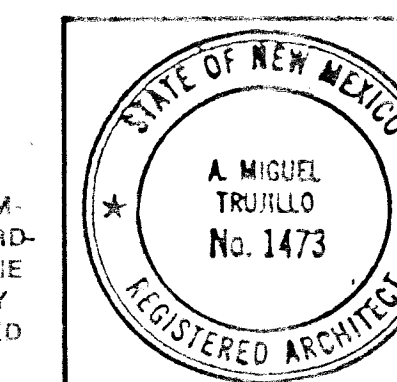
1/4" = 1'-0"



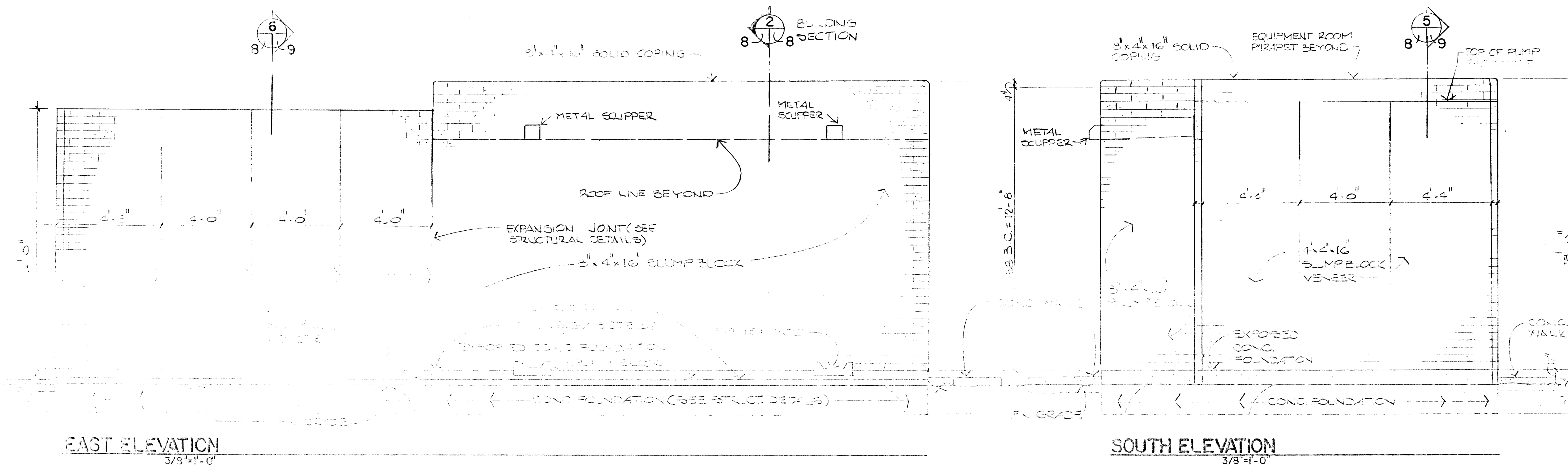
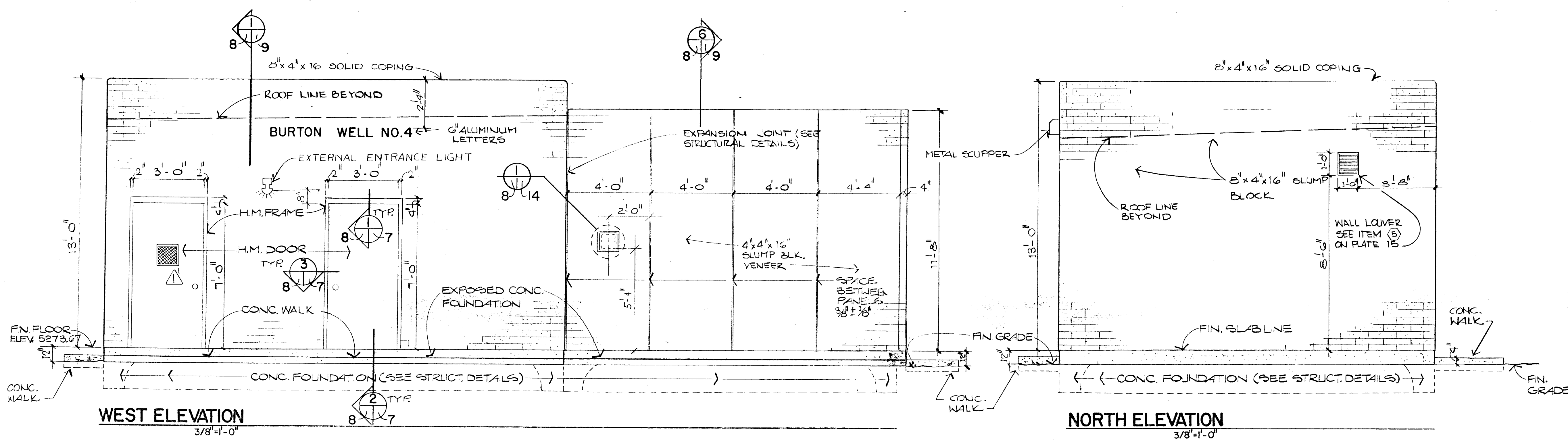
FLOOR PLAN

1/2" = 1'-0"

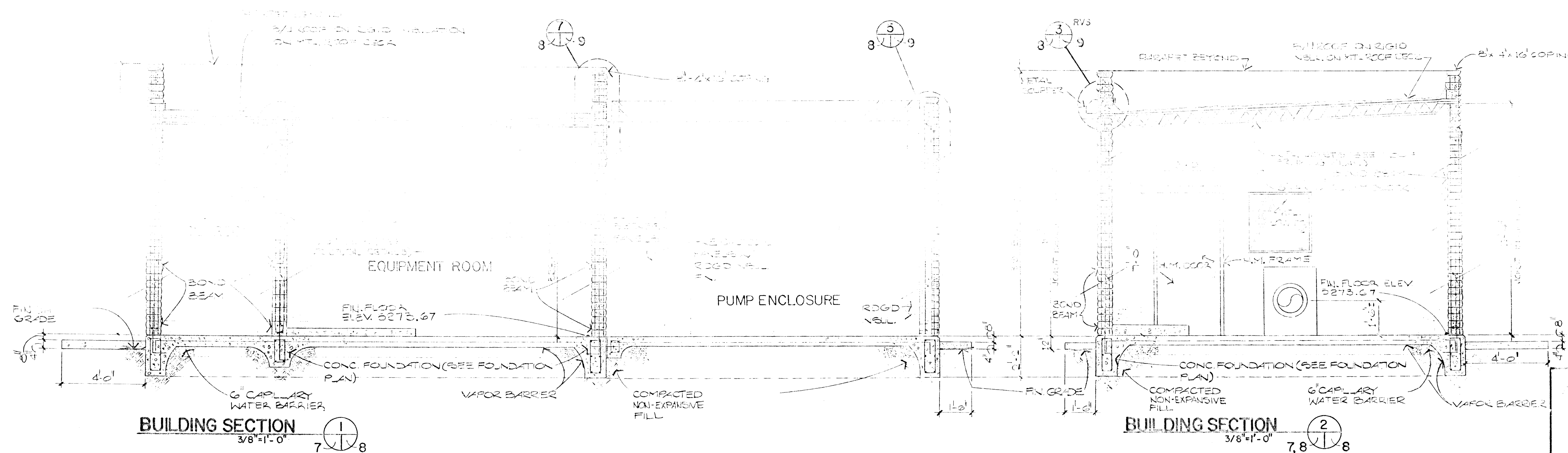
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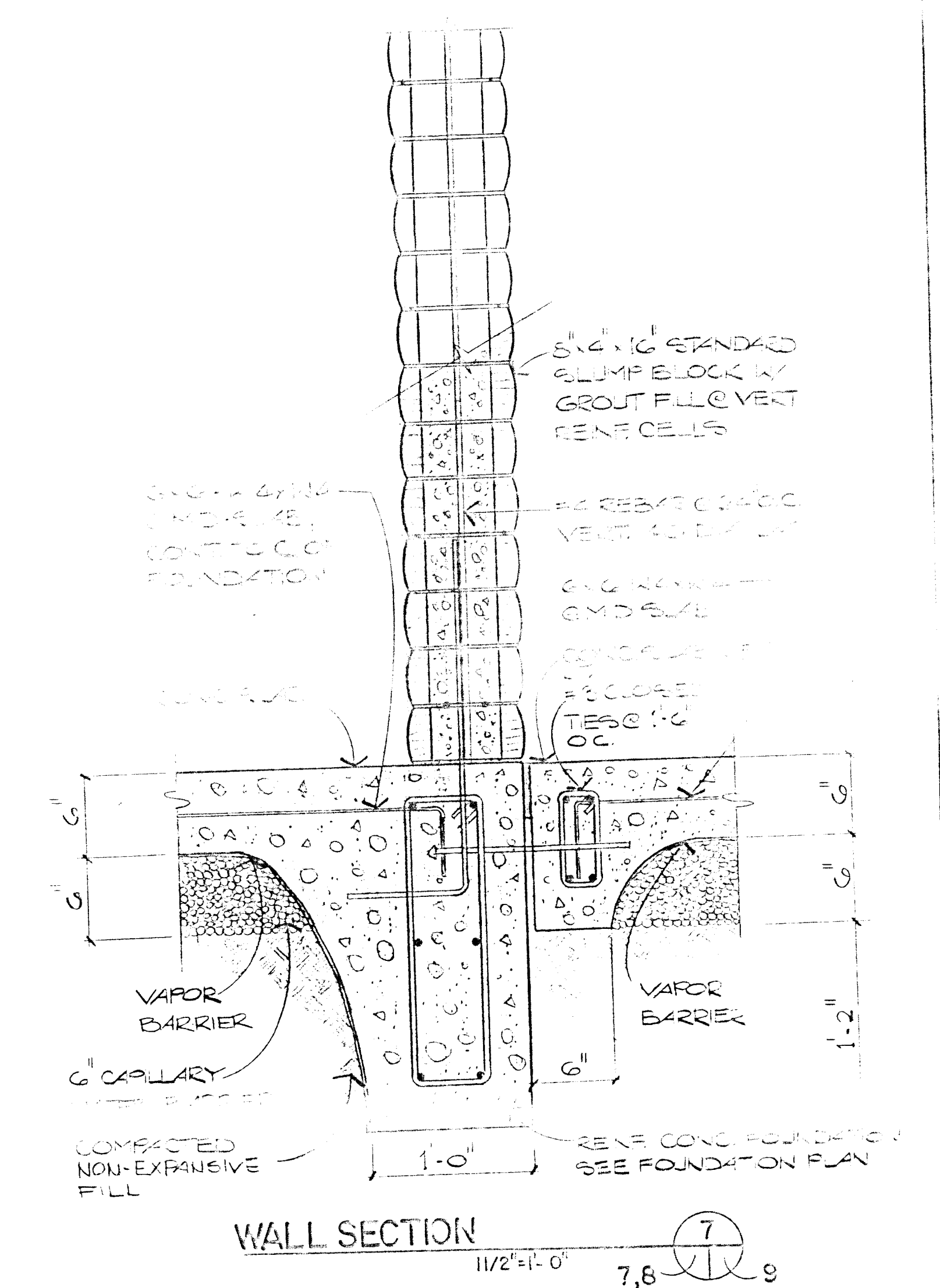
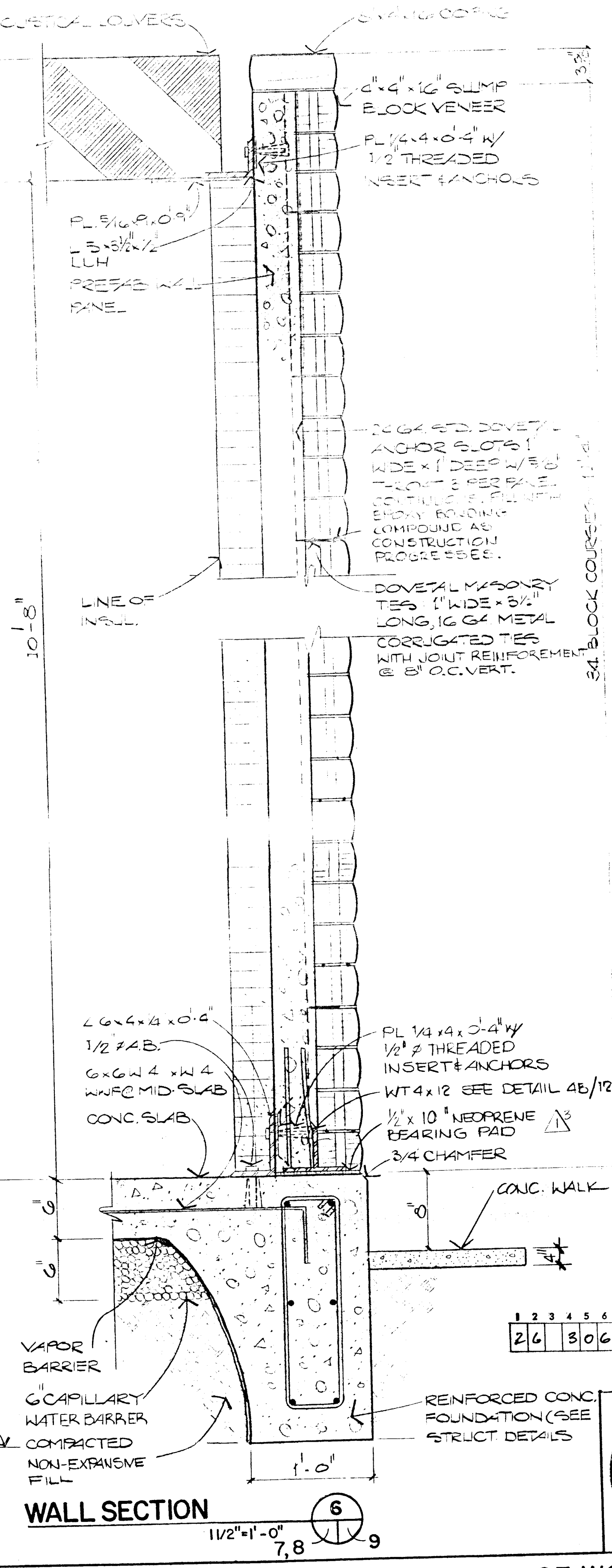
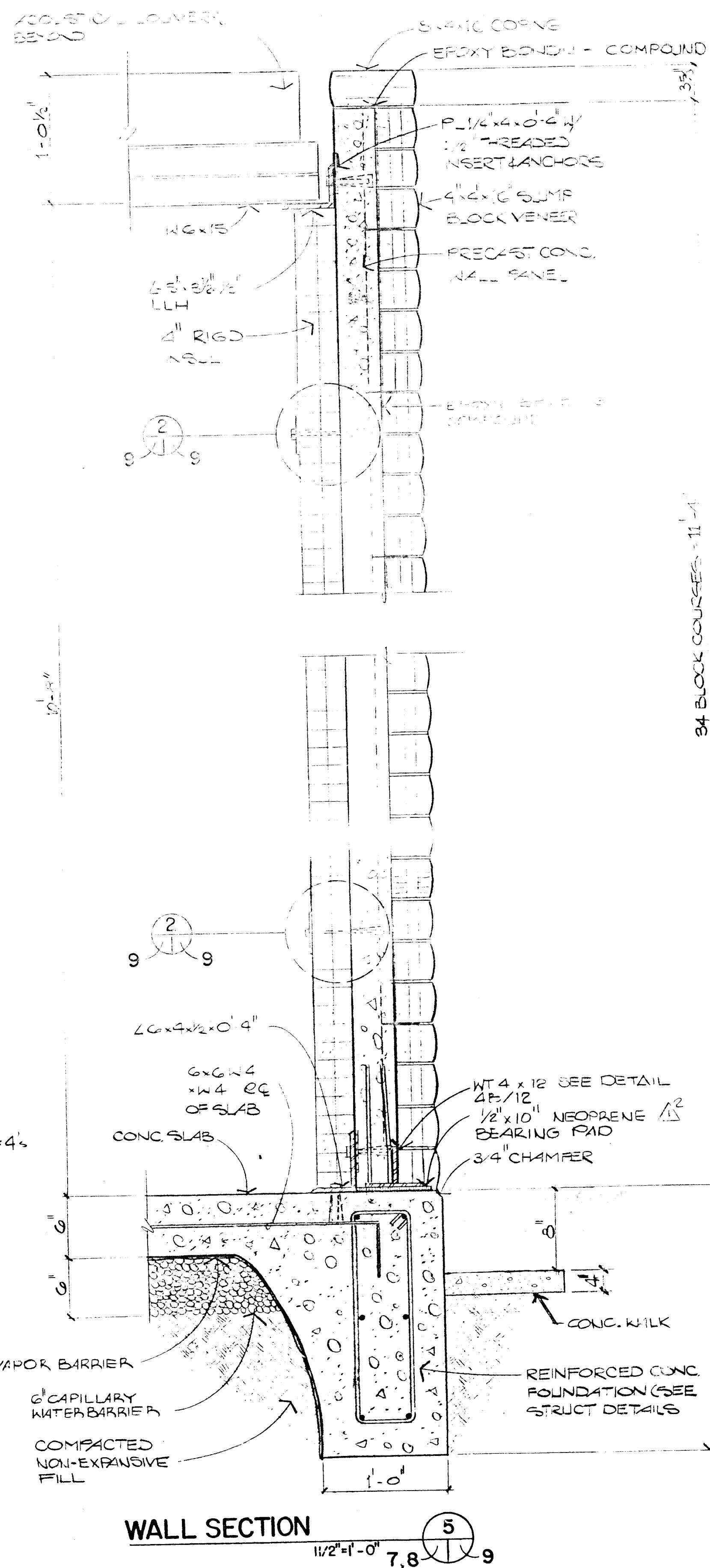
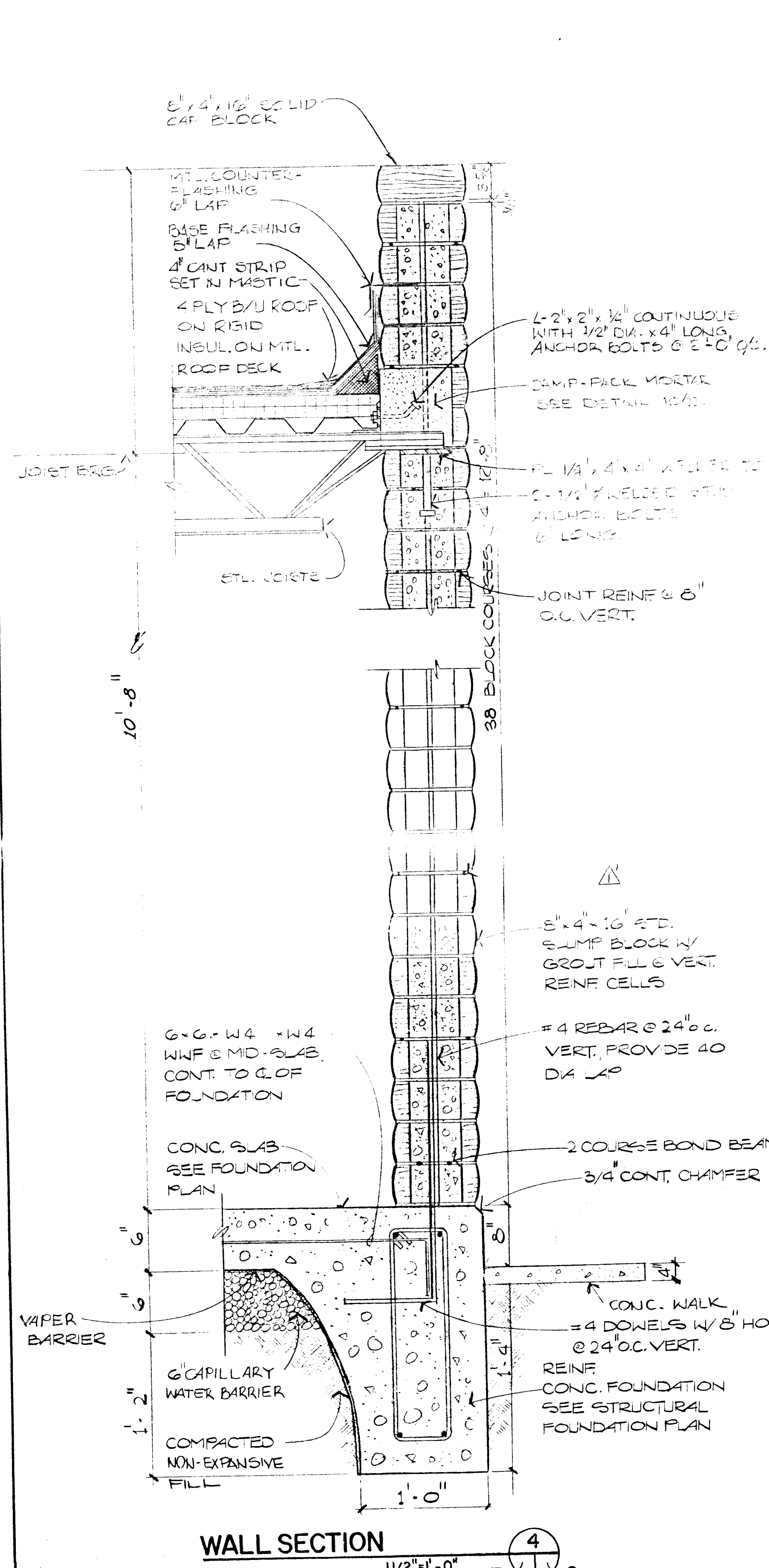
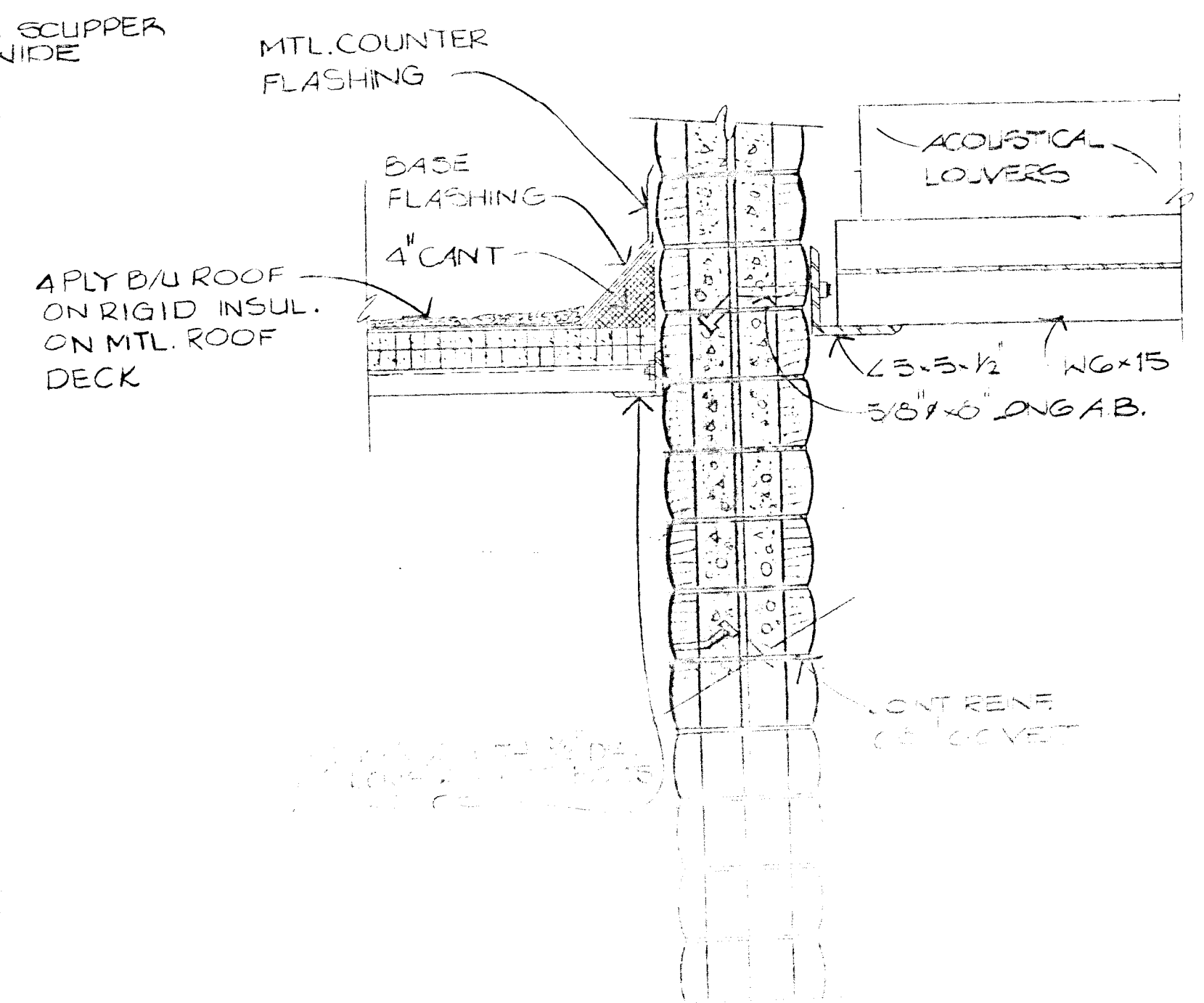
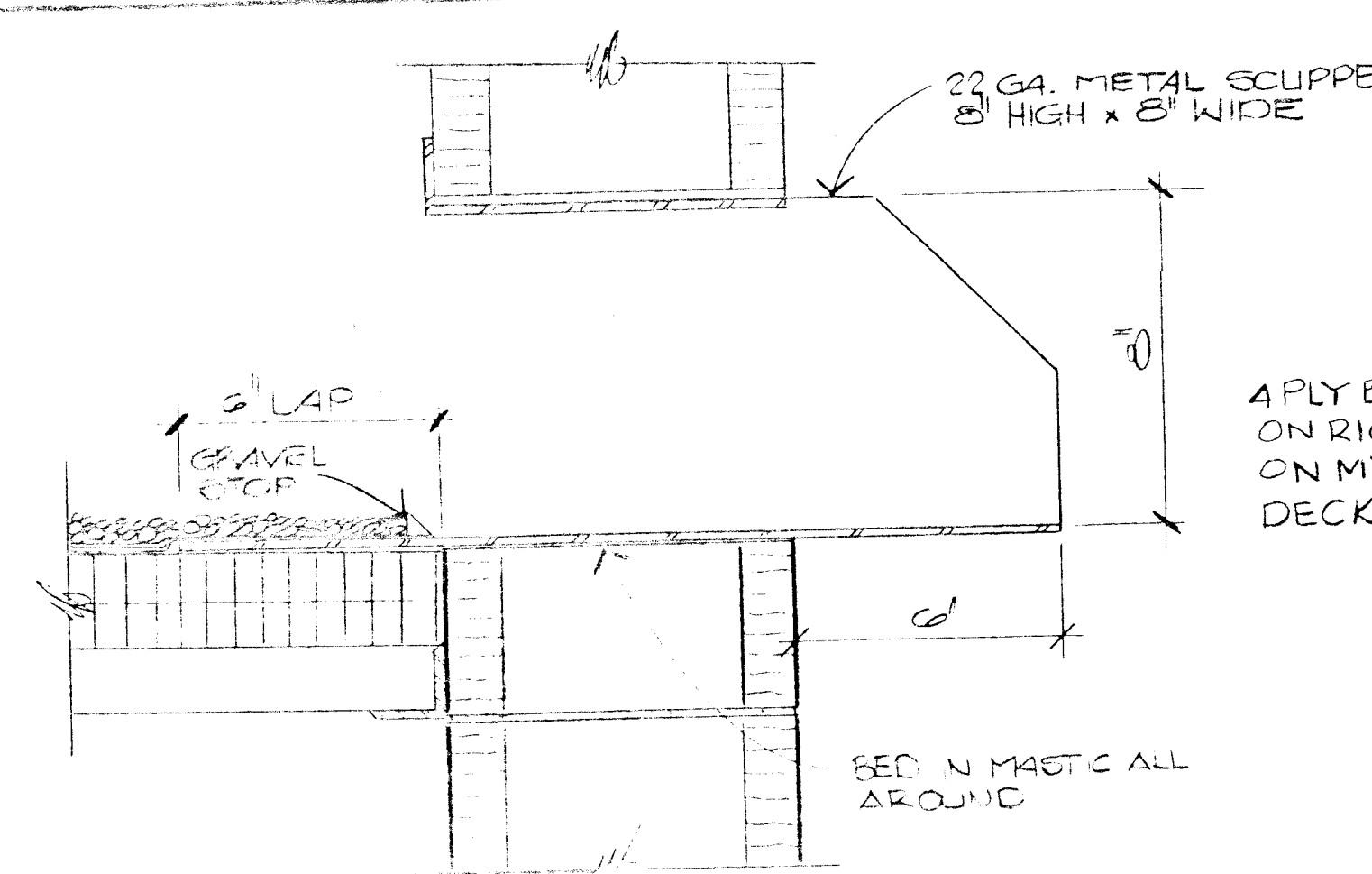
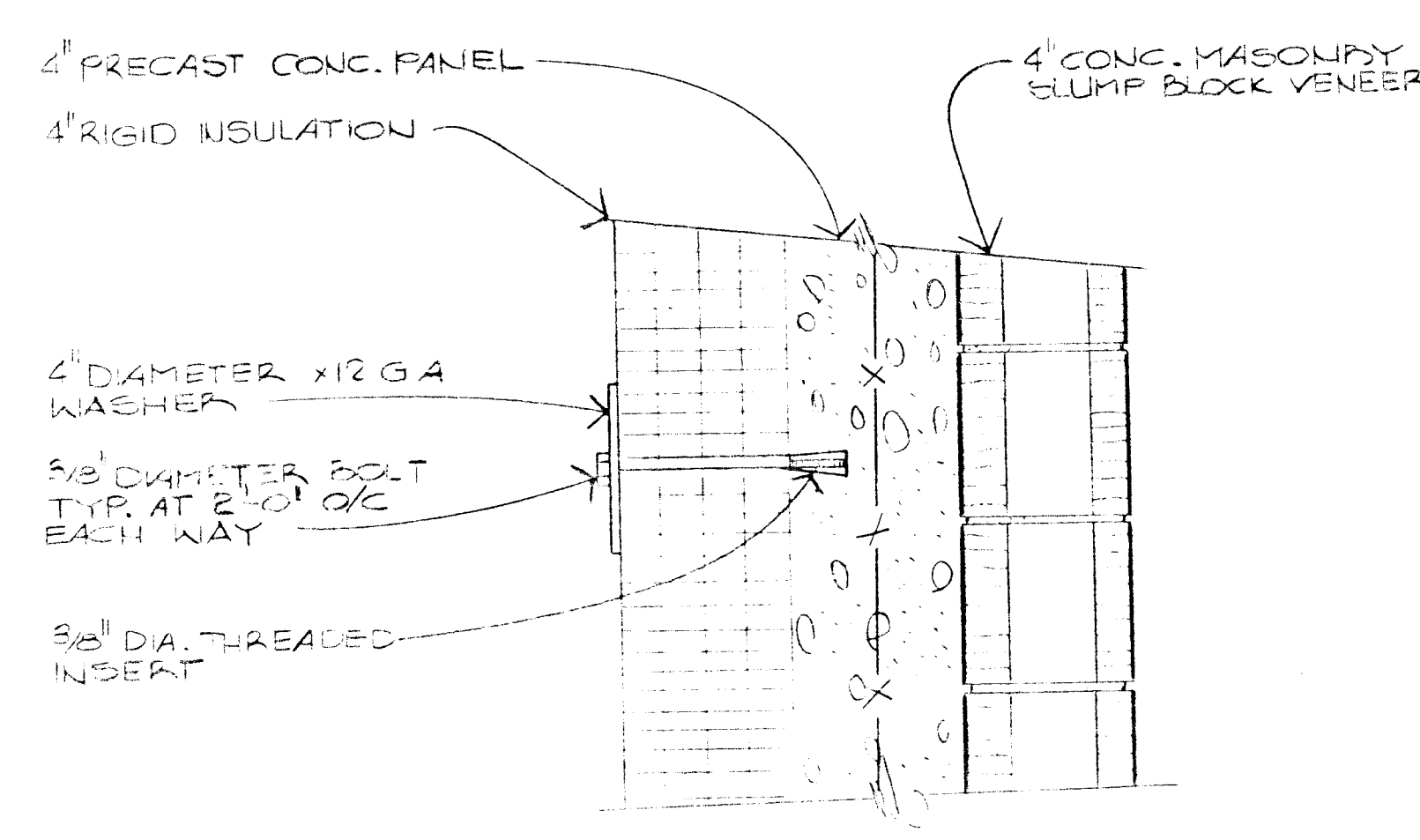
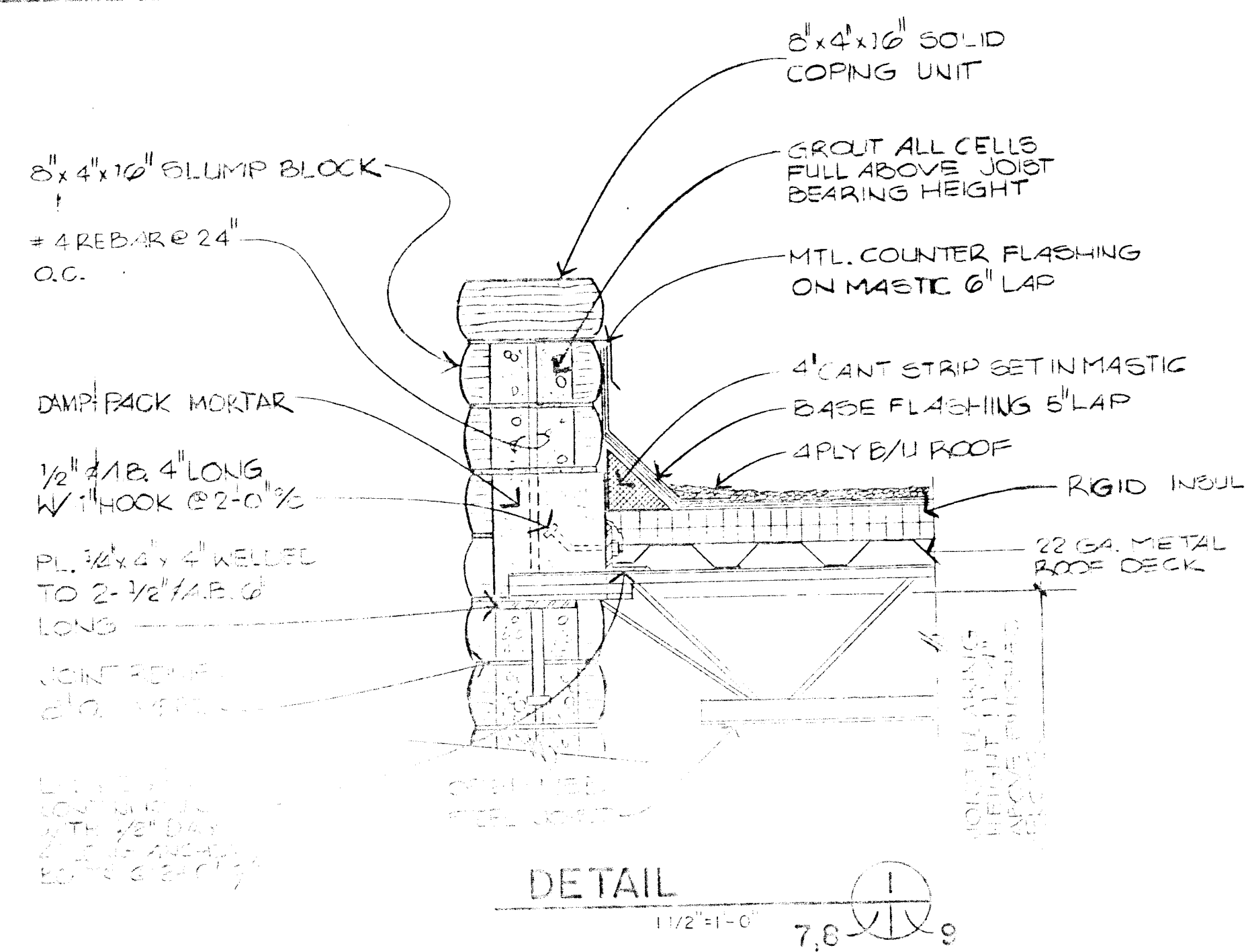
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WILLIAM MATOTAN & ASSOCIATES, INC. 230 Truman N.E., Albuquerque, NM 87108 (505) 243-8467		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO		SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO	
WELL EQUIPMENT - BURTON WELL NO. 4				FLOOR PLAN & DOOR DETAILS	
SOL. NO. DACW47-87-B-0005				PLATE 7.1	
DATE: APRIL 1987				FILE NUMBER	



THE UNITED STATES OF AMERICA
DEPARTMENT OF THE ARMY
OFFICE OF THE CHIEF OF STAFF
WASHINGTON, D. C. 20315

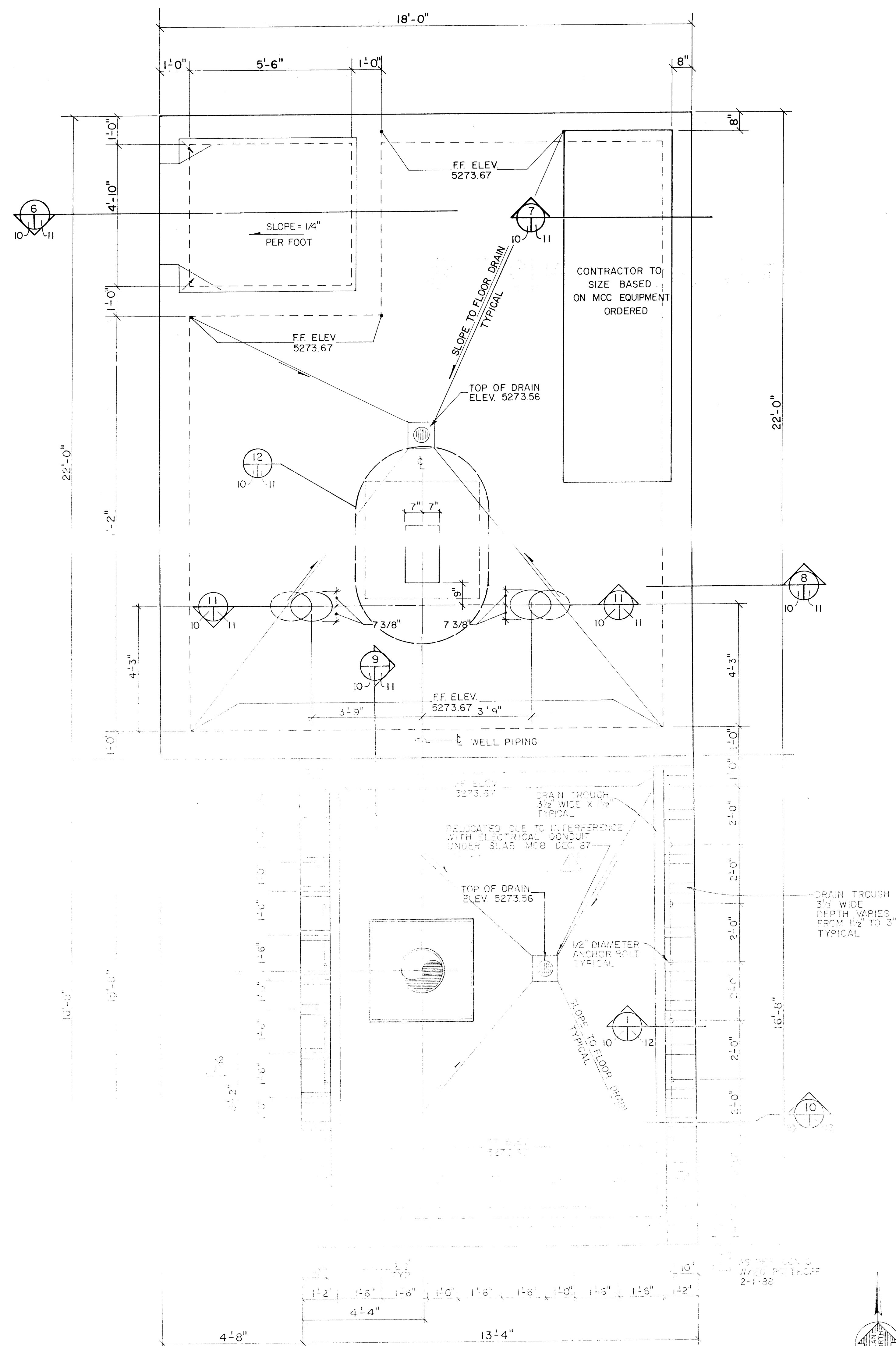


FORM NO. 104-101 (Rev. 1-60)		SCALE 1/8" = 1" FOOT	
123456789101112 2630650887			
DESIGNED BY		CHECKED BY	
WILLIAM MANTON & ASSOCIATES, INC. ENGINEERS 220 Toulon Drive, S.E., N.W. 8 th St. (202) 265-8461		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO	
RECEIVED BY MT FM DRAWN BY FM CHECKED BY MT		SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO WELL EQUIPMENT - BURTON WELL NO. 4 BUILDING ELEVATIONS & SECTIONS	
2 William L. Manton		SOL. NO. DACW47-87-B-0005 FILE NUMBER	
DATE APRIL 1937		PLATE 8	

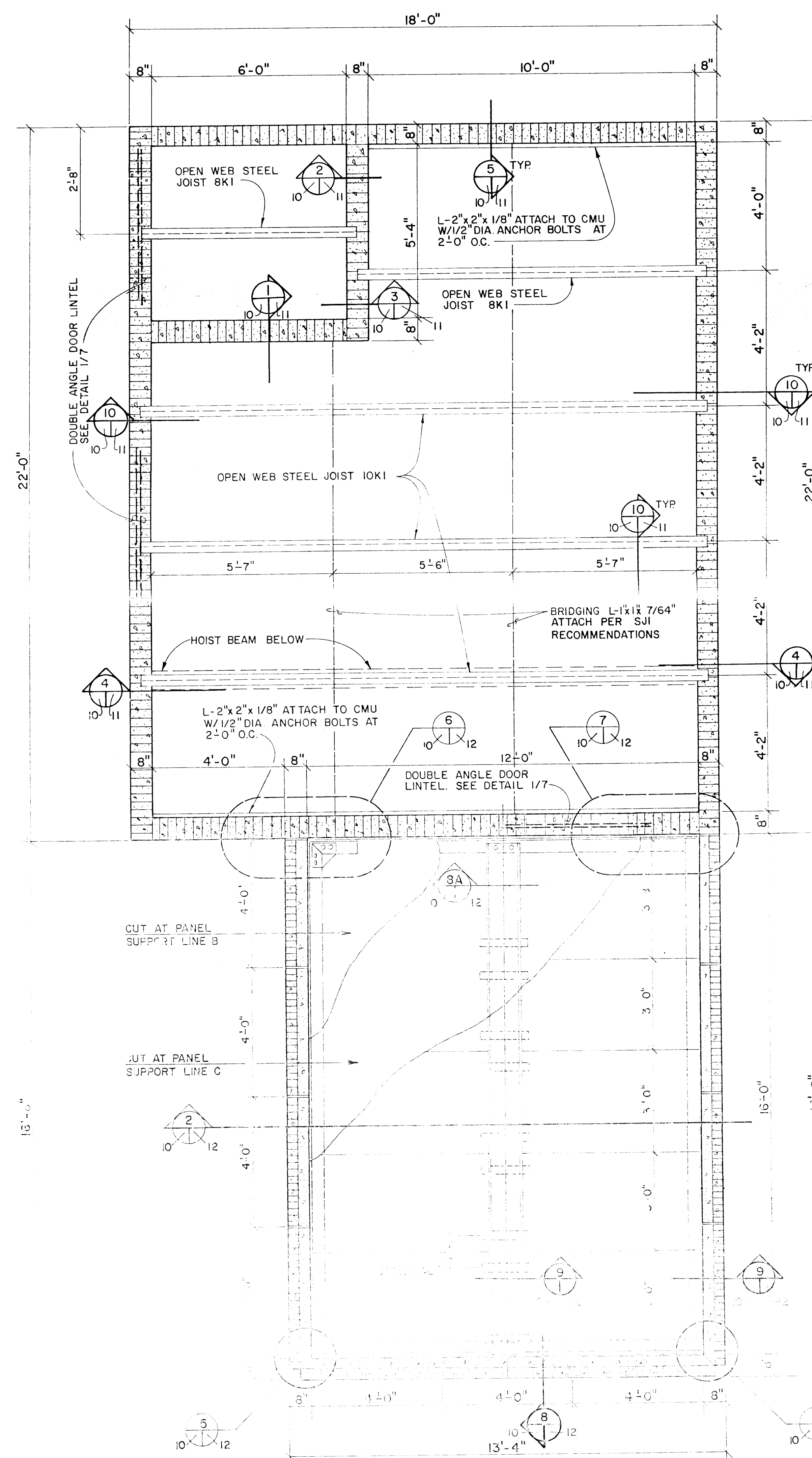


REVISIONS		DATE	APPROVAL
1	REVISED DRAWING AS BUILT	5/NOV/81	

DESIGNED BY MT/FM	WILLIAM MATOTAN & ASSOCIATES, INC. ENGINEERS 130 TRUMAN N.E. AVE. NM 87108 (505) 265-1147	U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO
DRAWN BY FM	SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO	
CHECKED BY MT	WELL EQUIPMENT - BURTON WELL NO. 4	
WALL SECTIONS & DETAILS		
SOL. NO. DACW47-87-B-0005		PLATE 9.1
DATE: APRIL 1987		FILE NUMBER
CITY OF ALBUQUERQUE PROJECT NO. 3065		

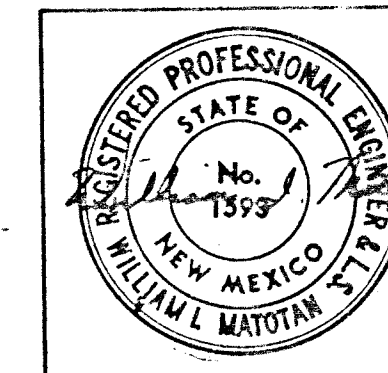


FOUNDATION PLAN
SCALE 1/2" = 1'-0"



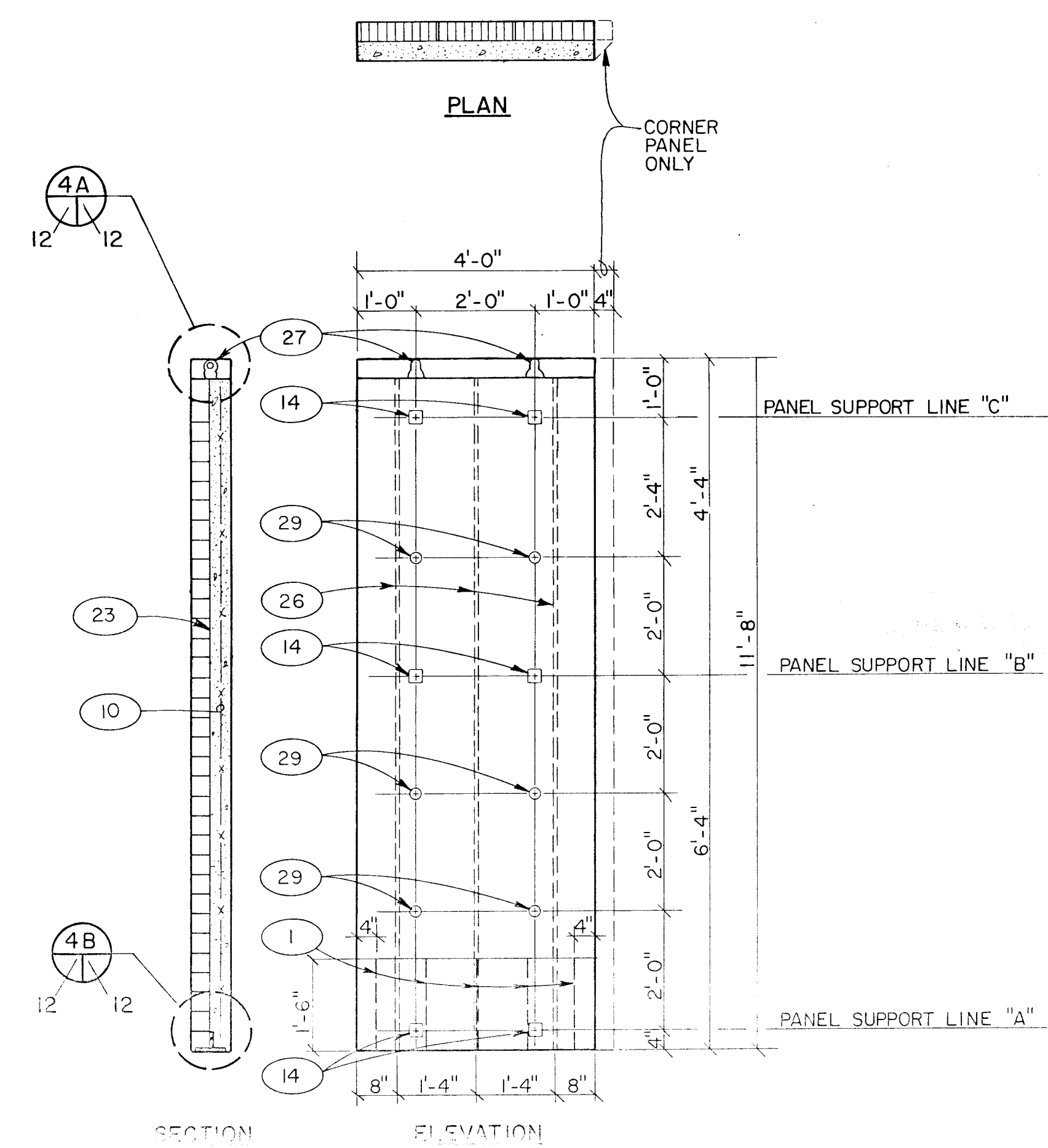
ROOF FRAMING PLAN
SCALE 1/2" = 1'-0"

NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1961.



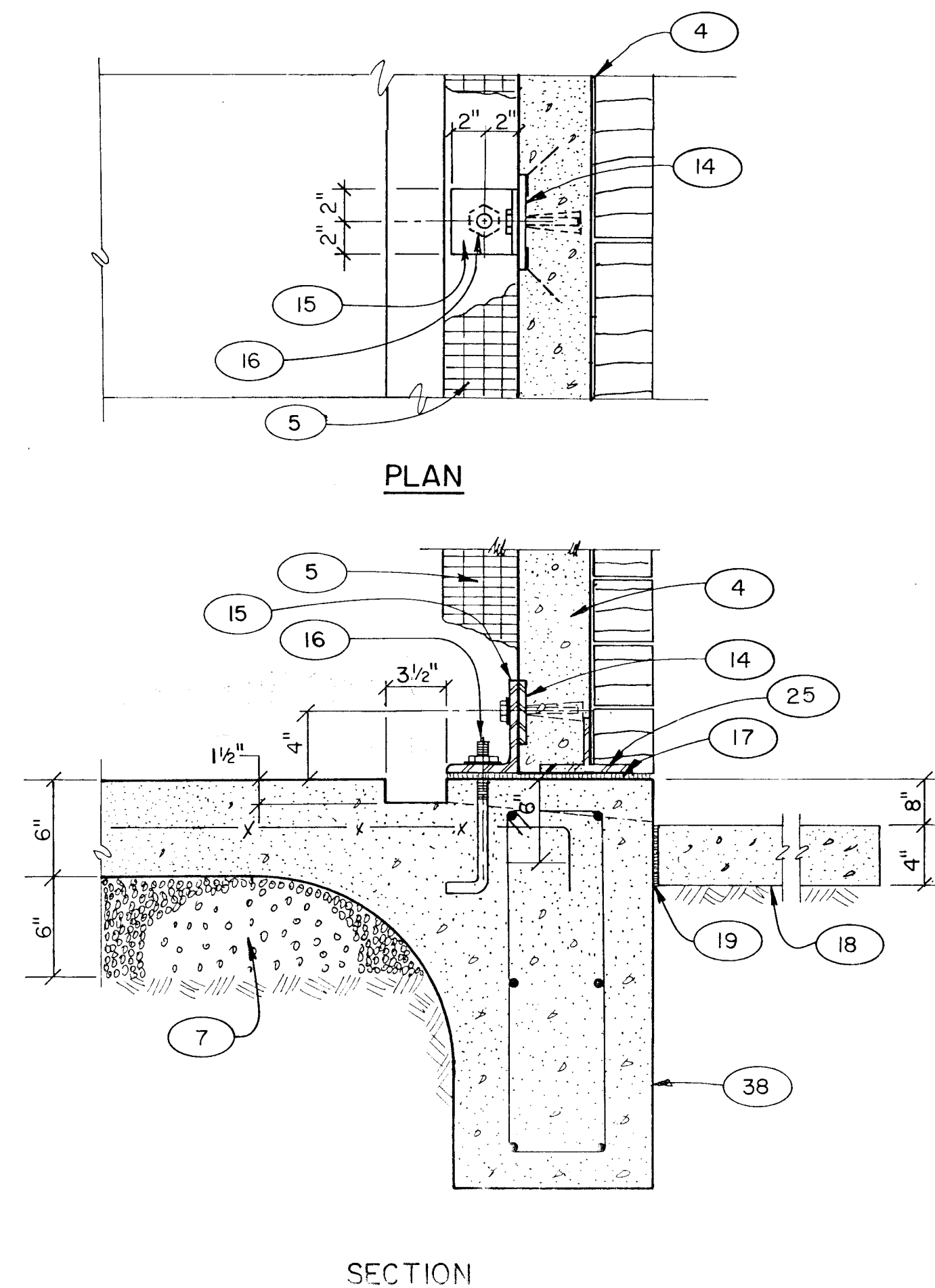
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DRAWN BY RA-JW		SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO			
CHECKED BY WJM		WELL EQUIPMENT - BURTON WELL NO. 4 FOUNDATION PLAN AND ROOF FRAMING PLAN			
DATE APRIL 1987		SOL. NO. DACW47-87-B-0005 FILE NUMBER		PLATE 10.1	





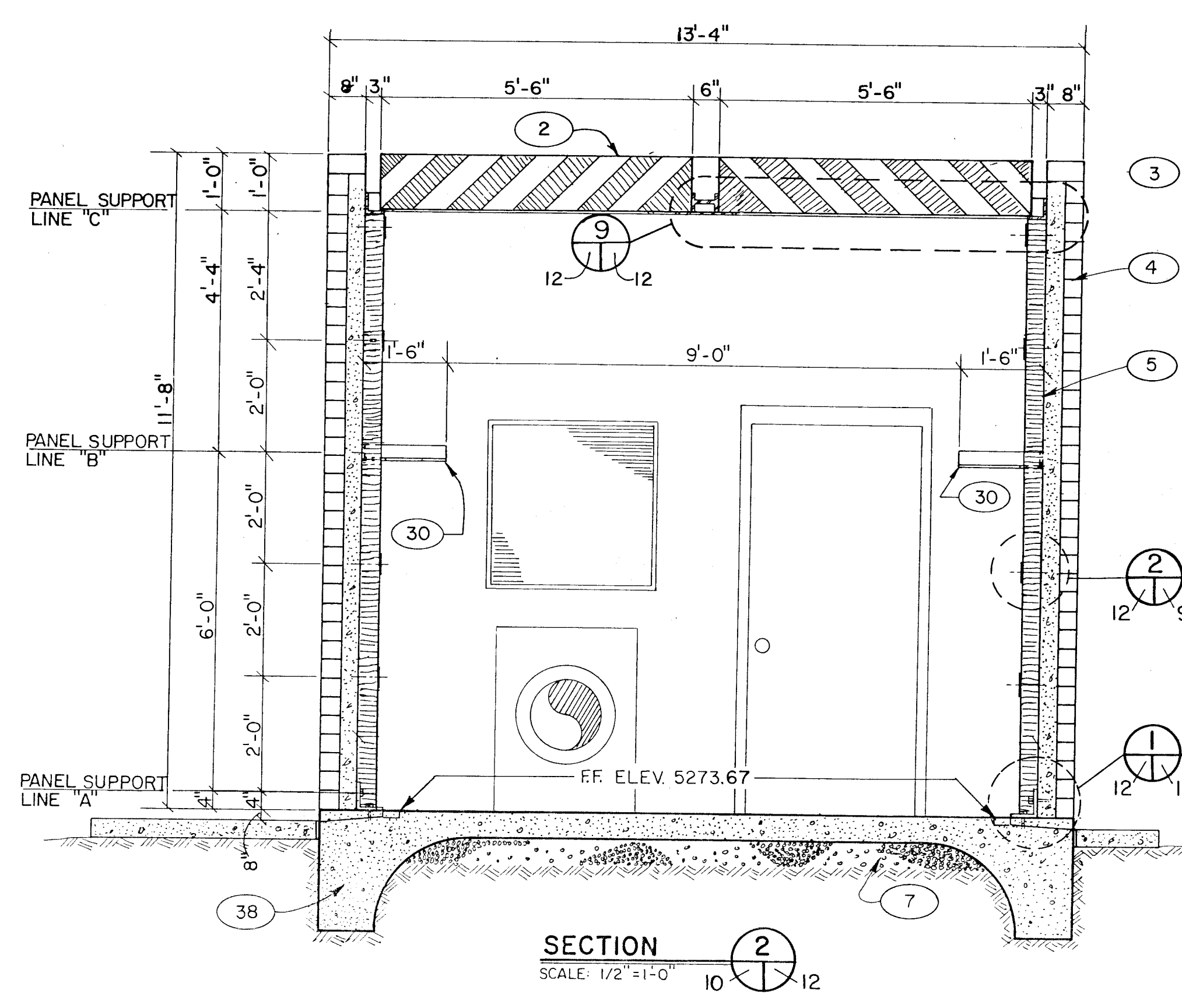
TYPICAL PRECAST CONCRETE/MASONRY ENCLOSURE PANEL AND DETAILS

SCALE: 1/2" = 1'-0"

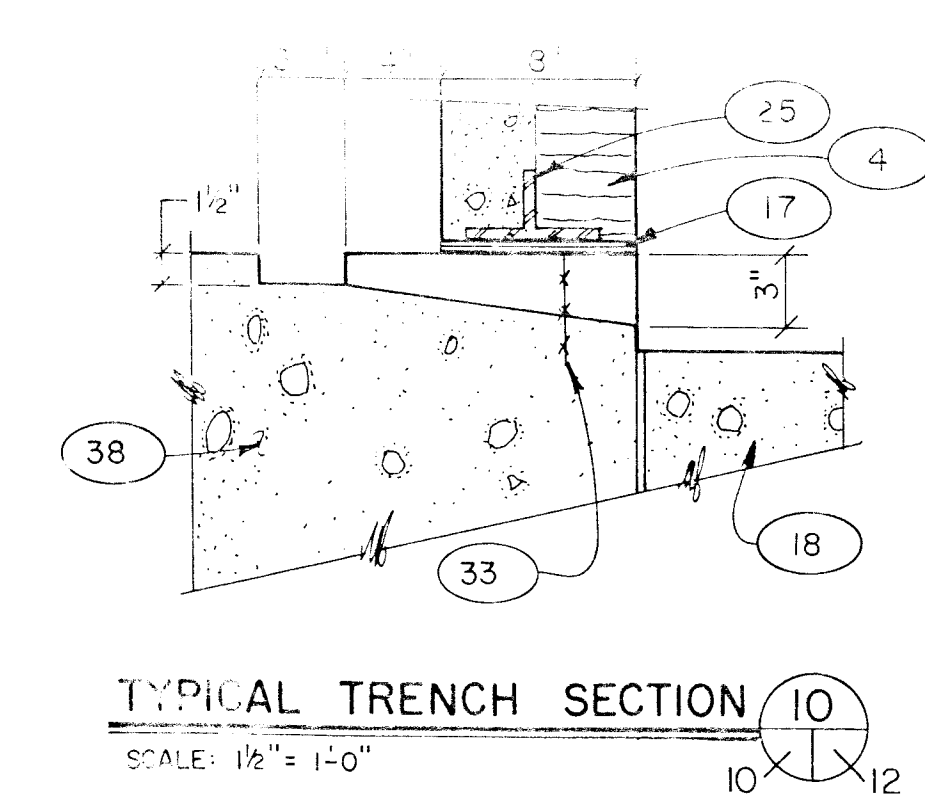
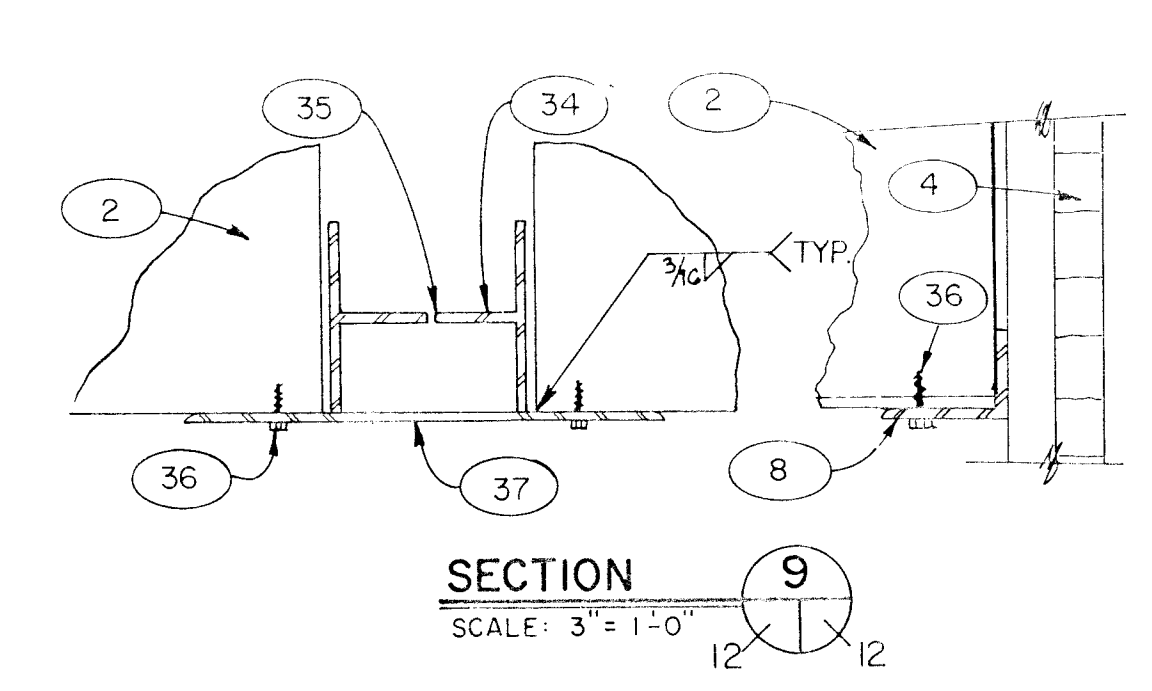
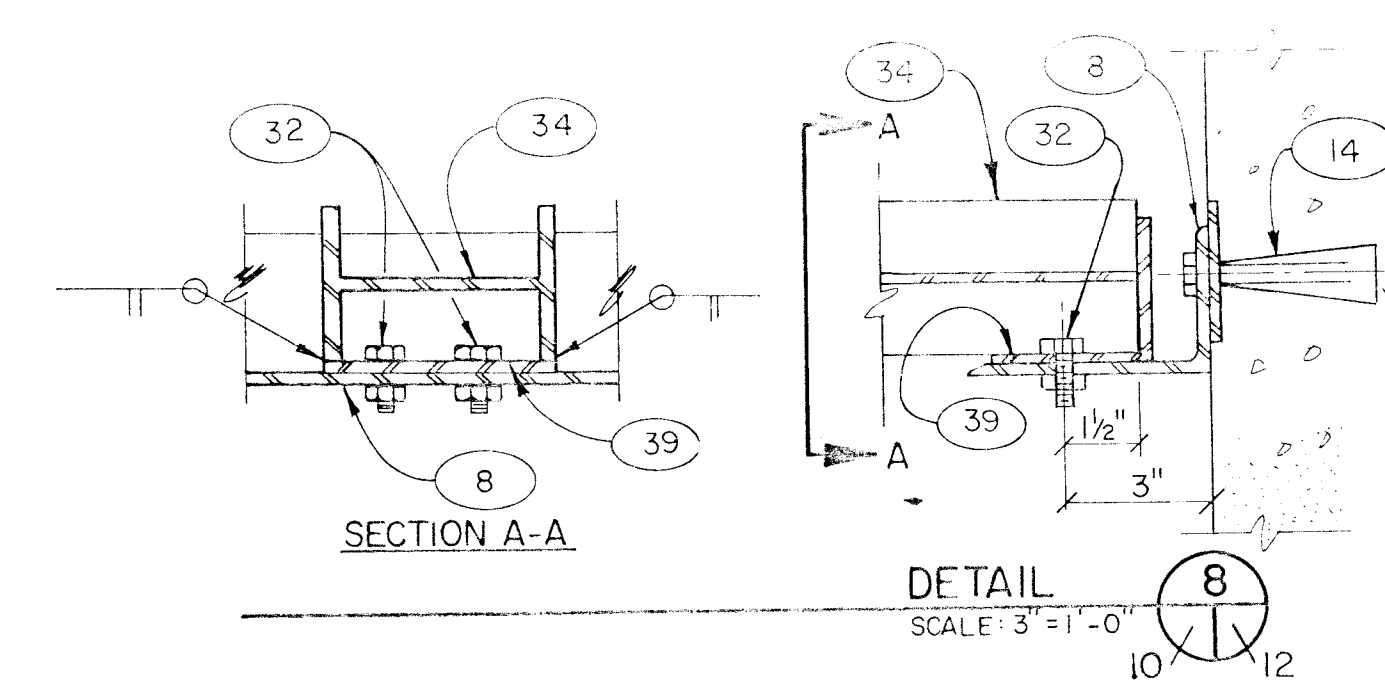
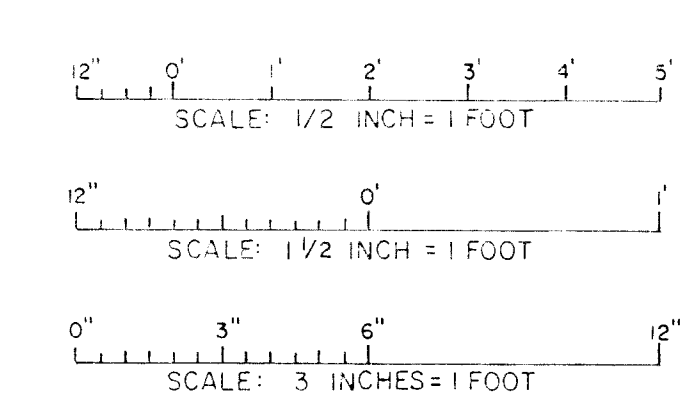
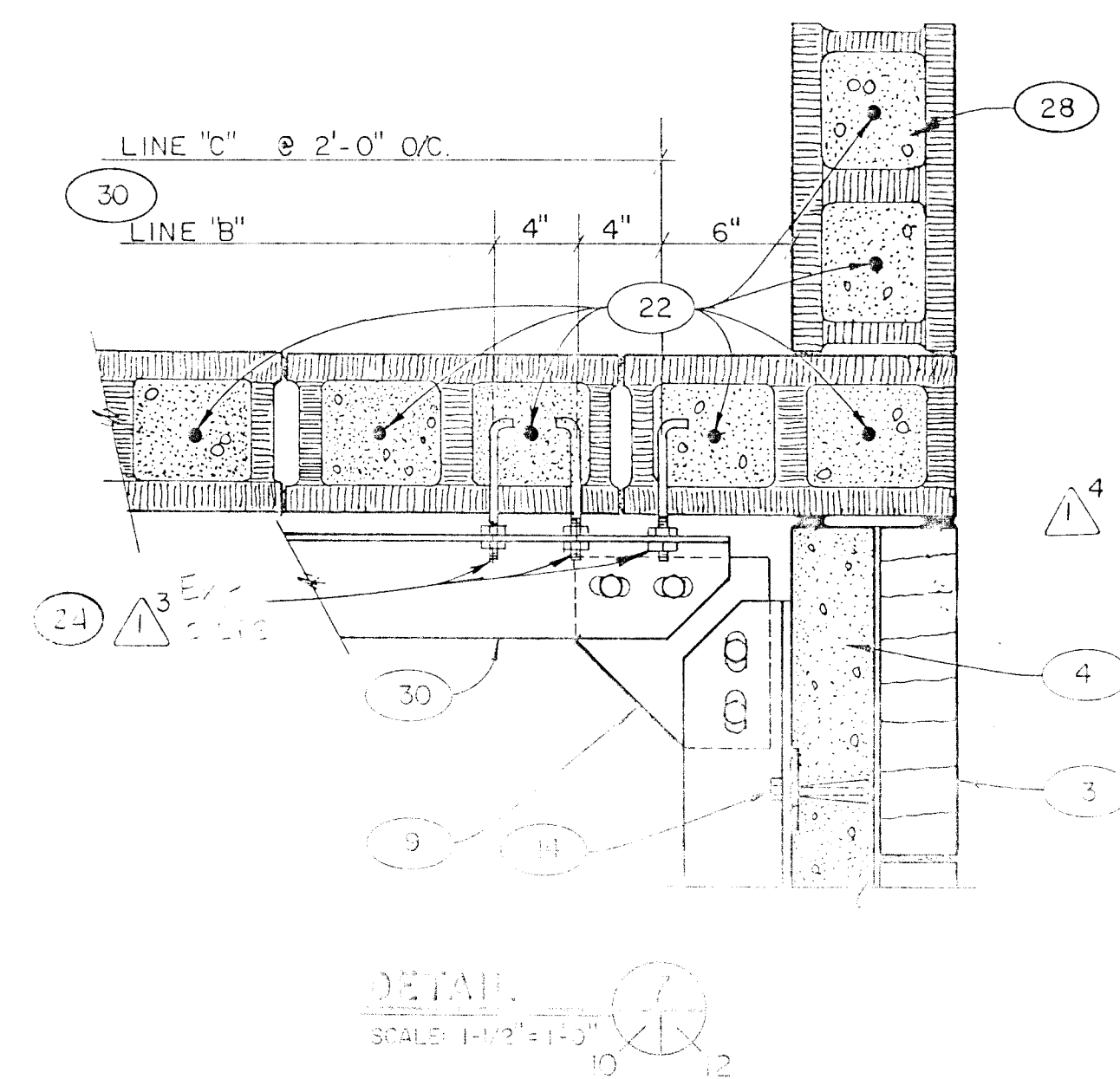
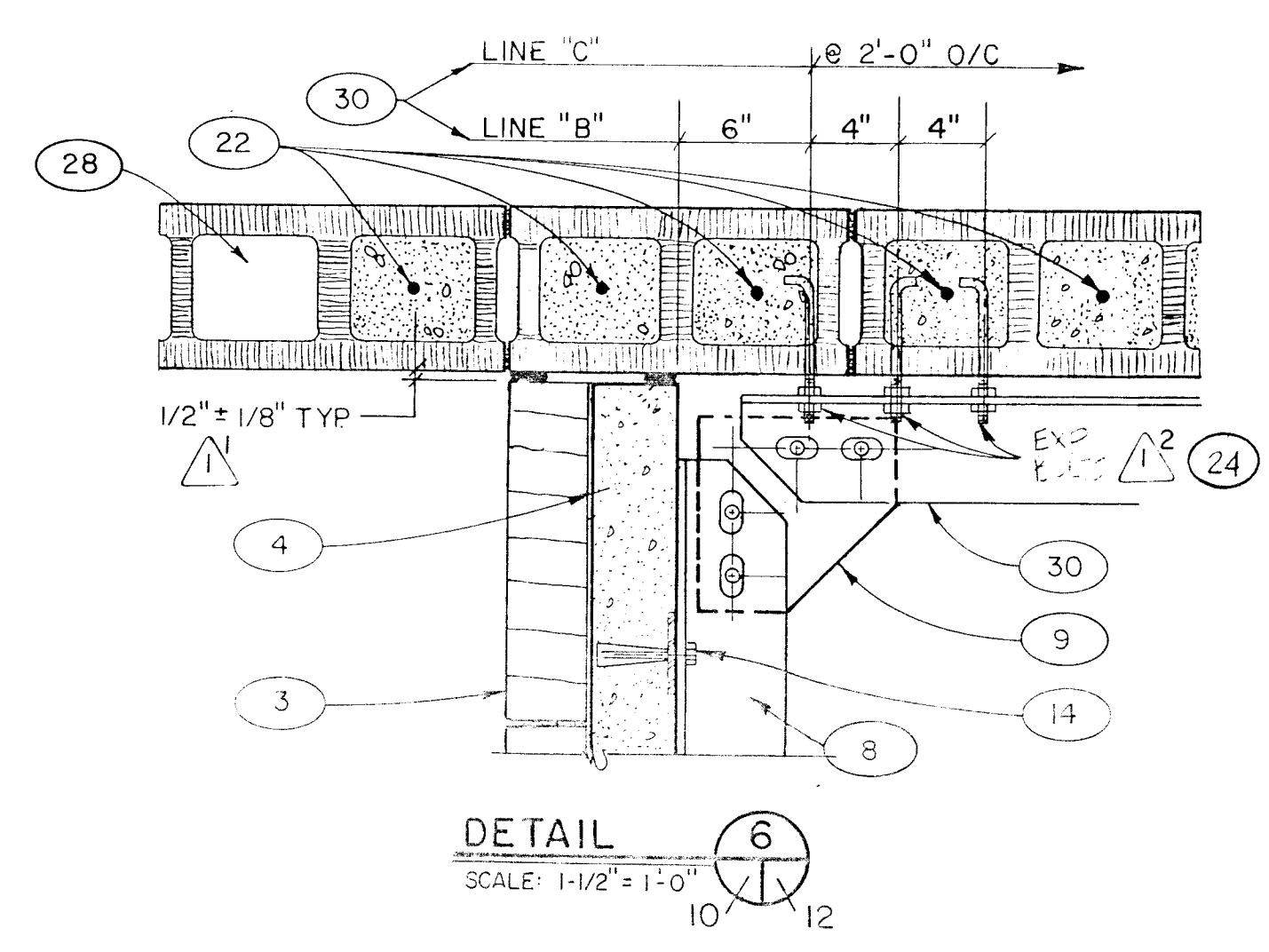
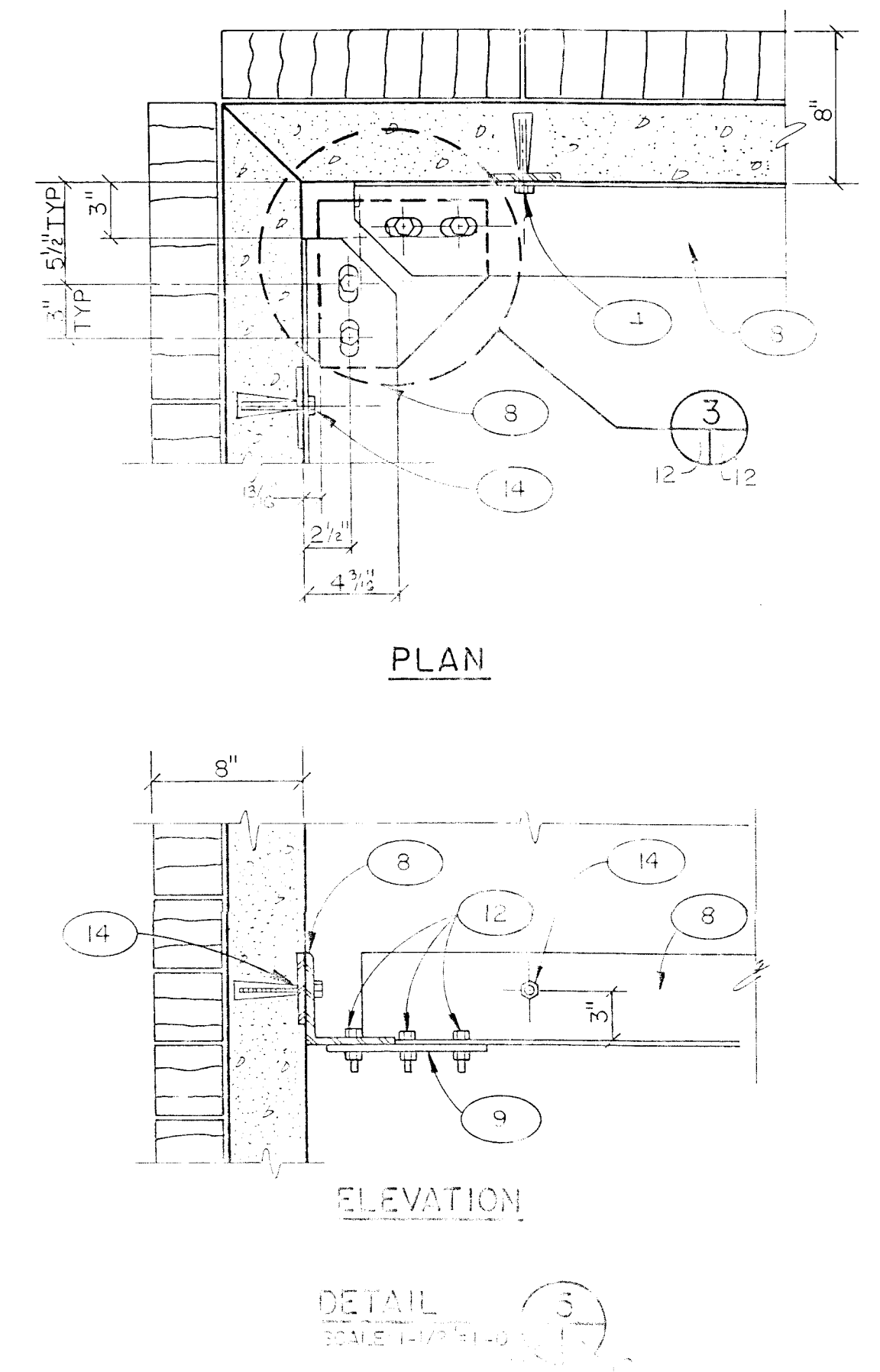
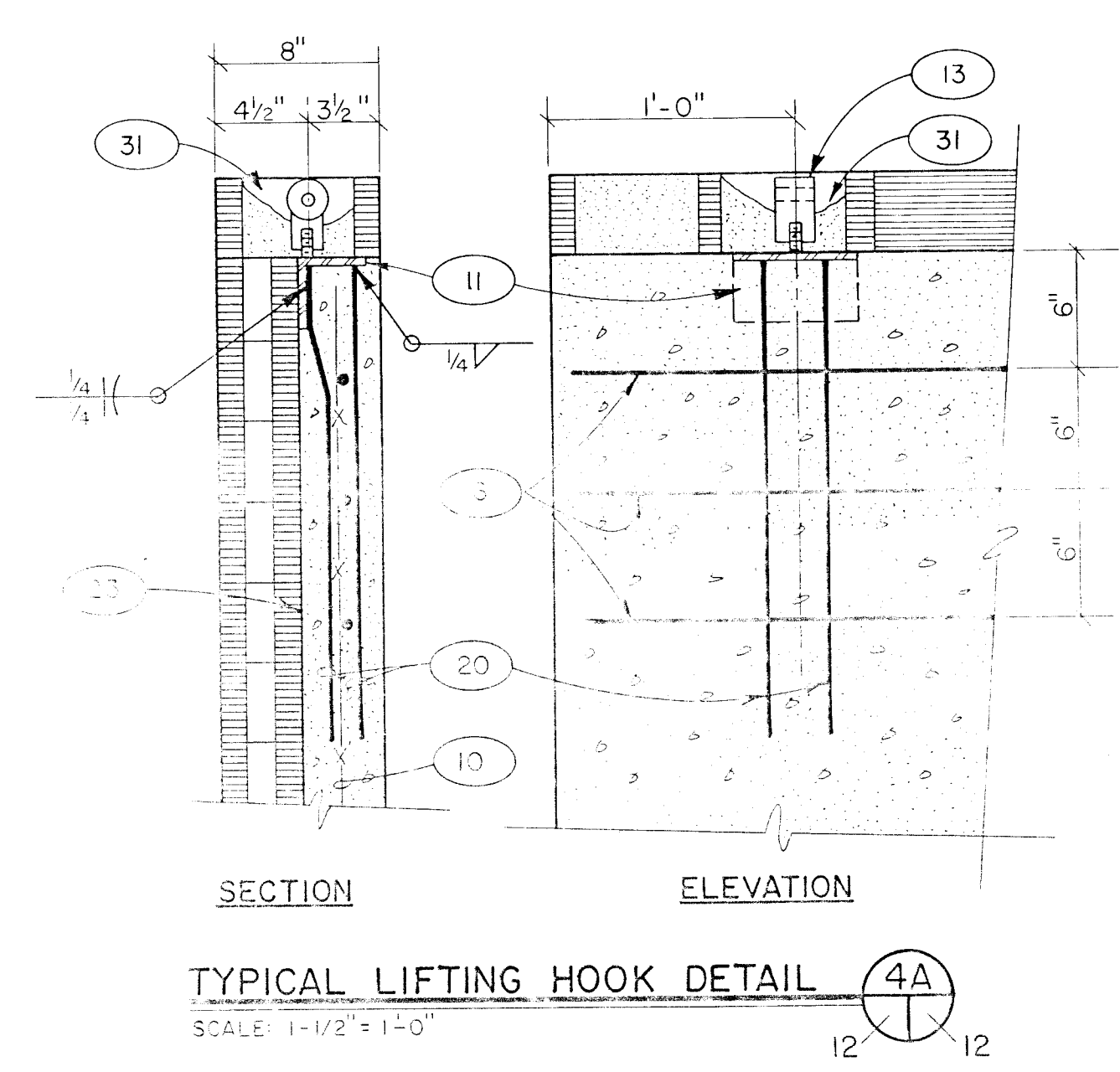
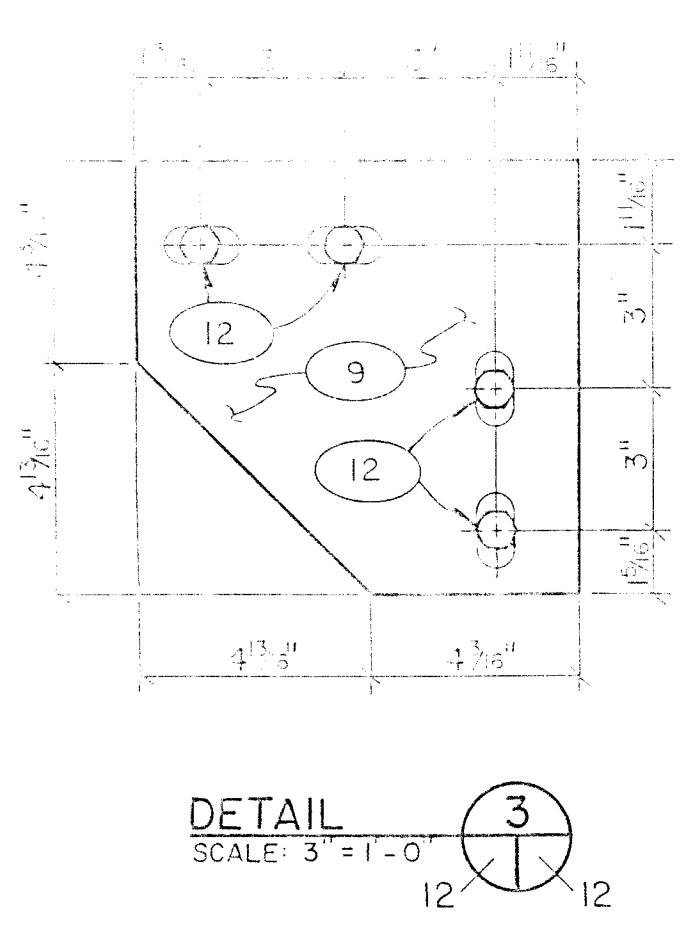


DETAIL

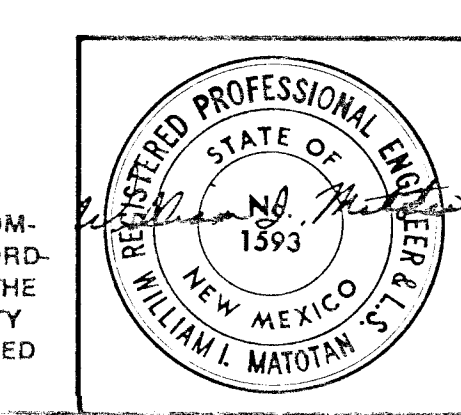
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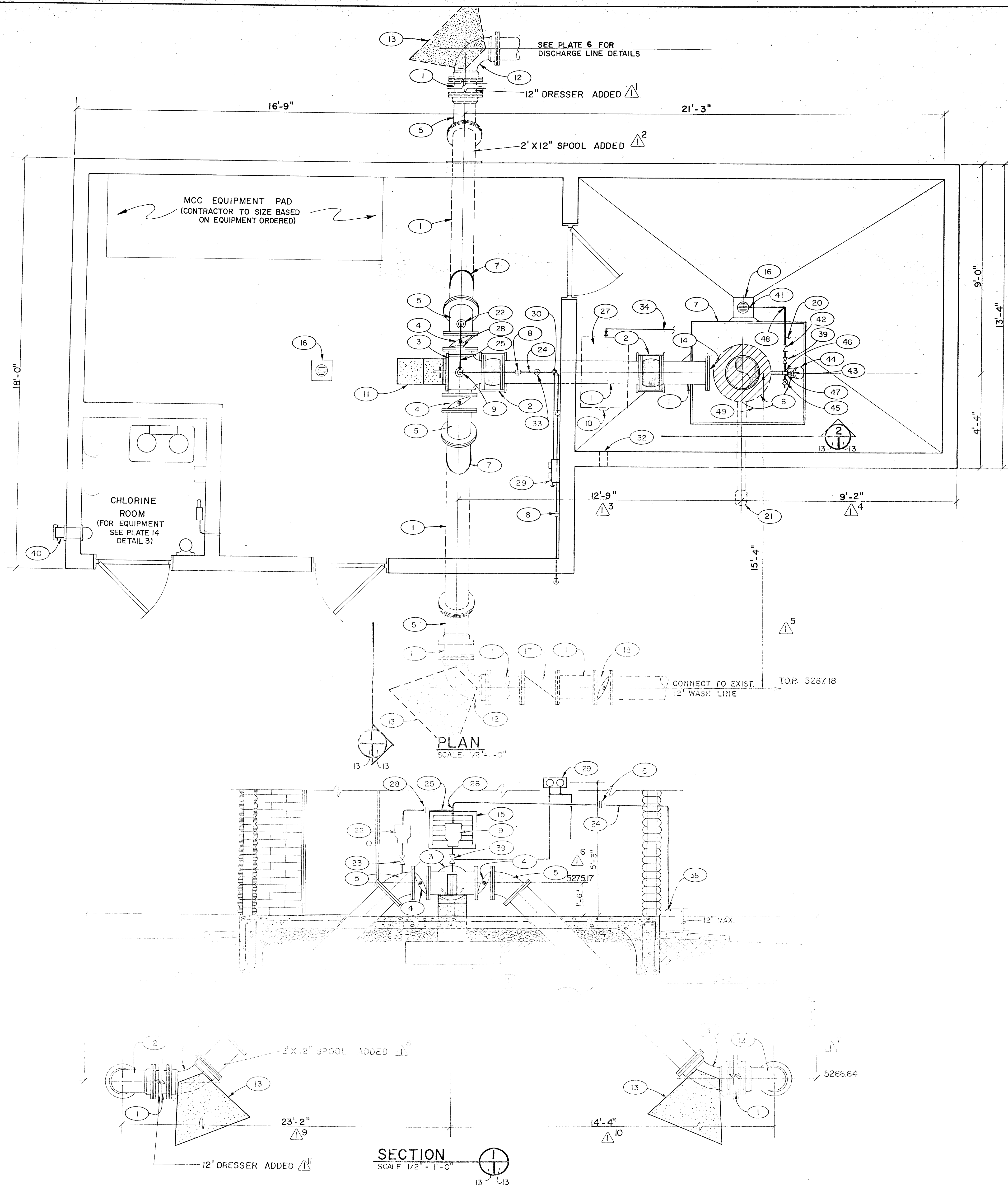
- KEYED NOTES**
- #12 1'-0" LONG @ 10" ON CENTER
 - ACOUSTICAL LOUVERS
 - 4" X 4" X 16 SLUMP BLOCK
 - PREFABRICATED WALL PANELS. SEE DETAILS THIS PLATE.
 - 4" RIGID INSULATION
 - THREE #45 3'-0" LONG
 - 6" CAPILLARY WATER BARRIER WITH VAPOR BARRIER ABOVE
 - 5/8" DIAMETER THREADED STUD 5,000 LB. CAPACITY
 - PLATE 5/16 X 3 X 0'-9" WITH 4 EA. 11/16" LONG SLOTTED HOLES FOR 5/8" BOLTS. SEE DETAIL 3/12
 - TYPICAL PRECAST CONCRETE REINFORCEMENT. 4" X 4" - W4 X W4 WWF. CENTER IN PANEL.
 - L3-1/3" X 3-1/2" X 1/2 X 6" LONG
 - 5/8" DIAMETER BOLTS
 - LIFTING EYE & 5/8" DIAMETER THREADED STUD 5,000 LB. CAPACITY
 - ANCHOR PLATE 1/4 X 4 X 0'-4" WITH 1/2" THREADED INSERT AND BOLTS
 - L6 X 4 X 1/2 X 0'-4" LLV
 - 1/2" DIAMETER X 6" LONG ANCHOR BOLT. SEE FOUNDATION PLAN FOR LOCATIONS.
 - 1/2" NEOPRENE PAD. TYPICAL UNDER ALL PRECAST PANELS.
 - CONCRETE SIDEWALK
 - 1/2" PREFORMED EXPANSION JOINT
 - #4 REBAR 2'-0" LONG. FOUR REQUIRED PER CONNECTION
 - SEALANT AND BACKSTOP MATERIAL
 - ADDITIONAL VERTICAL BARS REQUIRED AT CONNECTION. PROVIDE #45 IN GROUTED CELLS AS INDICATED.
 - BOUND MASONRY TO CONCRETE USING EPOXY BONDING COMPOUND. SEE SPEC SECTION 3B-PRECAST CONCRETE/MASONRY ENCLOSURE PANELS FOR MINIMUM BONDED STRENGTH.
 - 1/2" E.P. - BOLTS WITH 2" HOOK 10" LONG W/2" PROJECTION AND THREADS
 - DOVE TAIL ANCHOR SLOTS. THREE PER PANEL CONTINUOUS. PROVIDE ANCHORS EVERY OTHER COURSE.
 - LIFTING FUTURE. SEE DETAIL THIS PLATE.
 - 4" X 8" X 16 SLUMP BLOCK
 - 5/8" DIAMETER X 5" LONG BOLT WITH INSERT. SEE DETAIL 2/9
 - L3 X 3-1/2" X 1/2" LLV ALONG PANEL SUPPORT LINE "B". ANGLE IS 1'-6" LONG WITH THREE 1/2" DIAMETER X 4" LONG ANCHOR BOLTS AS SHOWN IN PANEL SUPPORT LINE "C". ANGLE IS CONTINUOUS WITH 1/2" DIAMETER X 4" LONG ANCHOR BOLTS @ 2'-0" ON CENTER. SEE SECTION 2/12.
 - FILL VOID FLUSH WITH ROOFING ASPHALT.
 - 5/8" DIAMETER BOLT WITH WASHER (2 REQUIRED).
 - #4 MESH GALVANIZED SQUARE MESH WIRE CLOTH 9 GAGE MINIMUM WIRE DIAMETER AS MANUFACTURED BY MONROVILS CO. OR APPROVED EQUAL. EMBED 2" MINIMUM SIDES AND BOTTOM. TRIM TOP FLUSH WITH SLAB.
 - W6 X 15
 - 1/2" DRAIN HOLE AT MIDSPAN
 - #12 METAL SCREW
 - PLATE 1/4 X 3 X 1'-0". SEE ROOF FRAMING PLAN FOR SPACING
 - MAT FOUNDATION. SEE FOUNDATION PLAN AND FOUNDATION DETAILS ON PLATE 11.
 - L3 X 3 X 1/4" LONG WELD TO ITEM 34 AS INDICATED



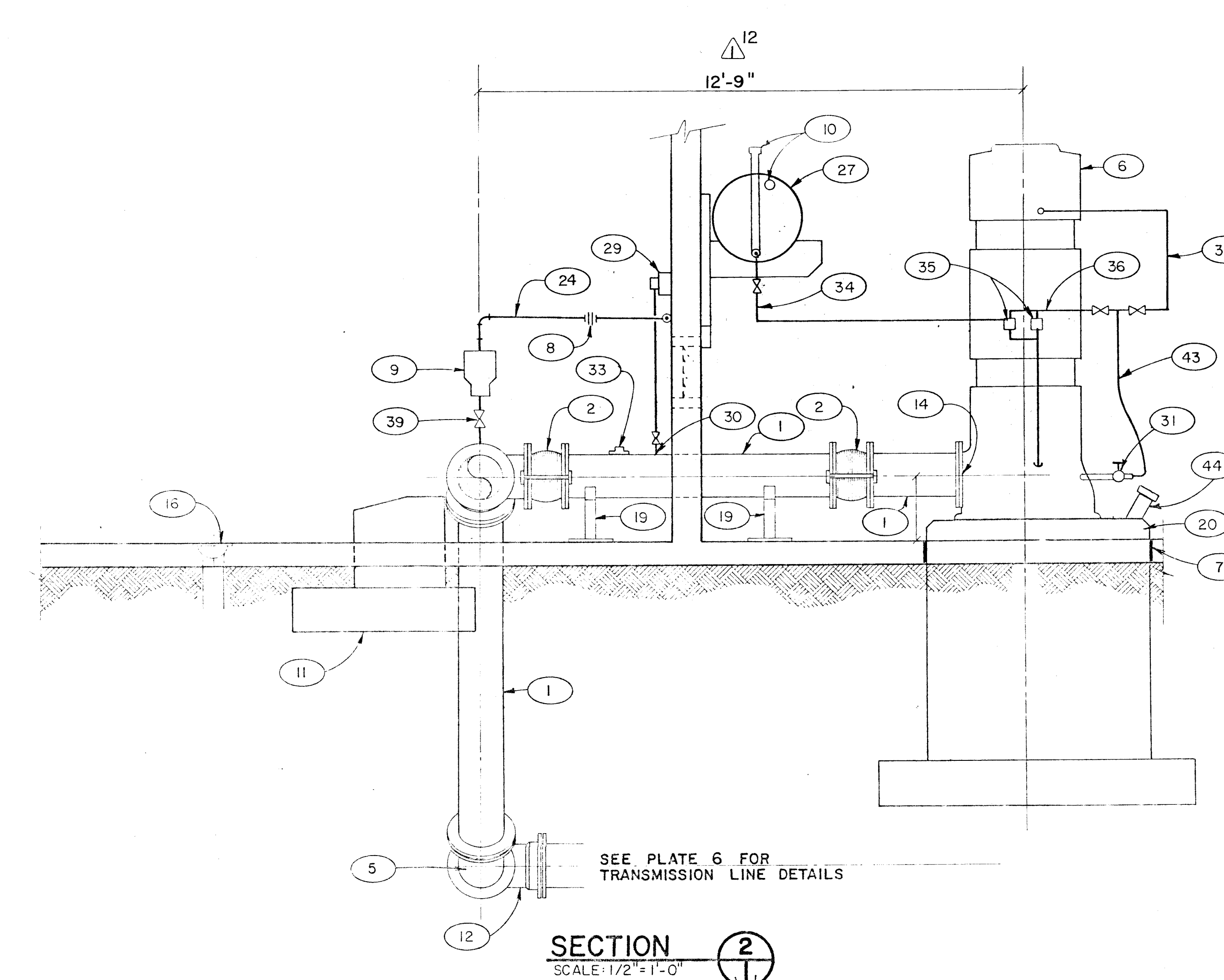
NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS, "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1984.



WILLIAM MATOTAN & ASSOCIATES, INC. ENGINEERS 230 TURNER N.E., ALBUQUERQUE, NM 87108 505/265-8467		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO	
DESIGNED BY	E.L.P.	SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL	
DRAWN BY	R.A. & J.W.	ALBUQUERQUE, NEW MEXICO	
CHECKED BY	W.I.M.	WELL EQUIPMENT - BURTON WELL NO. 4	
DATE		APRIL 1987	
SOL. NO. DACW47-87-B-0005		PLATE	12.1
FILE NUMBER			



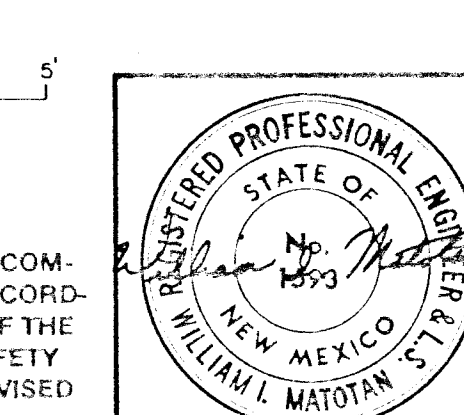
- KEYED NOTES**
- 12" SPOOL
 - 12" TEE
 - 12" MOTORIZED BUTTERFLY VALVE W/HORIZONTAL SHAFT
 - 12" 45° BEND
 - VERTICAL TURBINE PUMP
 - 12" EXPANSION MATERIAL
 - 2" UNION
 - 2" AIR/VACUUM RELEASE VALVE
 - TANK FILL NIPPLE AND LEVEL SIGHT GLASS (SEE PLATE 14 FOR DETAILS)
 - THRUST BLOCK FOR DISCHARGE HEADER. SEE PLATE 11, DETAIL 1.
 - 12" 90° BEND
 - THRUST BLOCKS SHALL BE INSTALLED ON ALL ELBOWS. SEE PLATE 6 FOR DETAILS.
 - WELL DISCHARGE FLANGE. MATCH ELEVATION & ALIGNMENT
 - WALL LOUVER. SEE DETAIL PLATE 11.
 - FLOOR DRAIN. SEE DETAIL PLATE 15 (WITH FUNNEL ON PUMP ENCLOSURE FLOOR DRAIN)
 - 12" CHECK VALVE
 - 12" BUTTERFLY VALVE W/HORIZONTAL SHAFT AND VALVE BOX
 - PIPE SUPPORT. SEE DETAIL PLATE 14
 - PUMP FOUNDATION. SEE DETAIL PLATE 14
 - EXISTING GRAVEL FEED LINE
 - 1" AIR/VACUUM RELEASE VALVE
 - 1" GATE VALVE
 - 2" DRAIN LINE - SLOPE 1/4" PER FOOT TO DRAIN
 - 1" DRAIN LINE
 - 2" X 2" X 1" TEE
 - OIL DRUM & SUPPORT. SEE DETAIL PLATE 14
 - 1" UNION
 - DISCHARGE PRESSURE GAUGE AND SWITCH. SEE DETAIL PLATE 14
 - 12" CORPORATION STOP THREADED INTO SPOOL FOR DISCHARGE PRESSURE GAUGE AND SWITCH
 - 2" AIR/VACUUM AND COOLING LINE TAP
 - OIL FILLER ACCESS. SEE DETAIL PLATE 14
 - 2" TAP FOR FLOW ELECTRODE
 - COPPER GRAVITY FEED OIL LINE TO OIL DRIPPERS, FAR SIDE
 - TEMPERATURE COMPENSATED OIL DRIPPERS
 - 1/2" COPPER COOLING WATER LINE TO OIL DRIPPERS
 - 12" COPPER COOLING WATER LINE TO THRUST BEARING
 - INSECT SCREEN
 - 2" GATE VALVE
 - CONNECTION FOR CITY OF ALBUQUERQUE CHLORINE NEUTRALIZATION EQUIPMENT. MALE THREADS WITH CAP. INSTALL 2" ABOVE FINISHED FLOOR.
 - 2" 90° ELBOW & NIPPLE. TERMINATE 8" ABOVE FLOOR DRAIN.
 - 2" CHECK VALVE (INVERTED & BACKWARDS)
 - 1/2" COPPER TUBING TO THRUST BEARING AND OIL DRIPPERS.
 - 4" CHEMICAL FEED LINE
 - 27X 3/4" REDUCER BUSHING WITH 3/4" HOSE BIB.
 - 2" CROSS
 - 2" X 1/2" REDUCER BUSHING
 - 2" 90° ELBOW

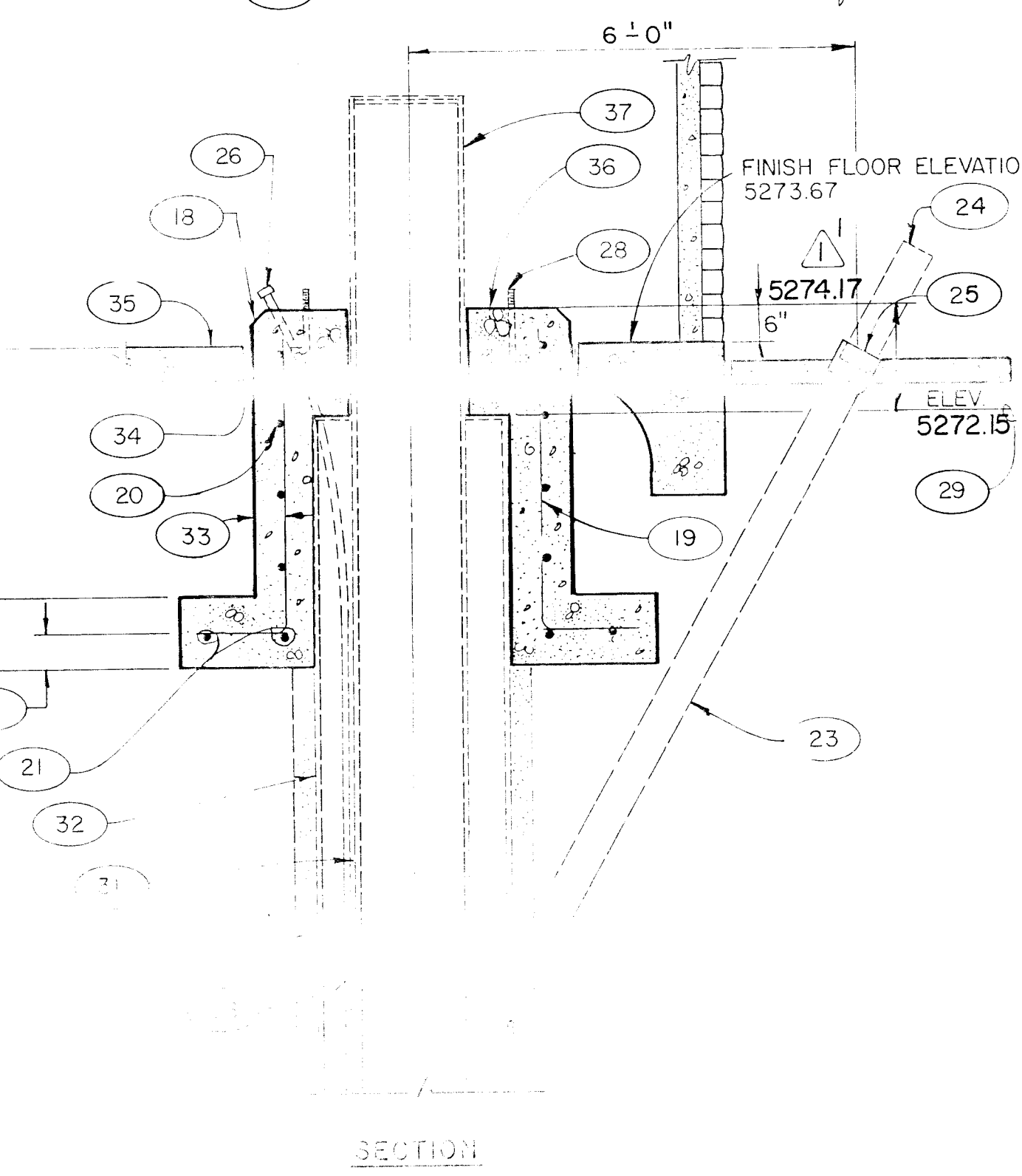
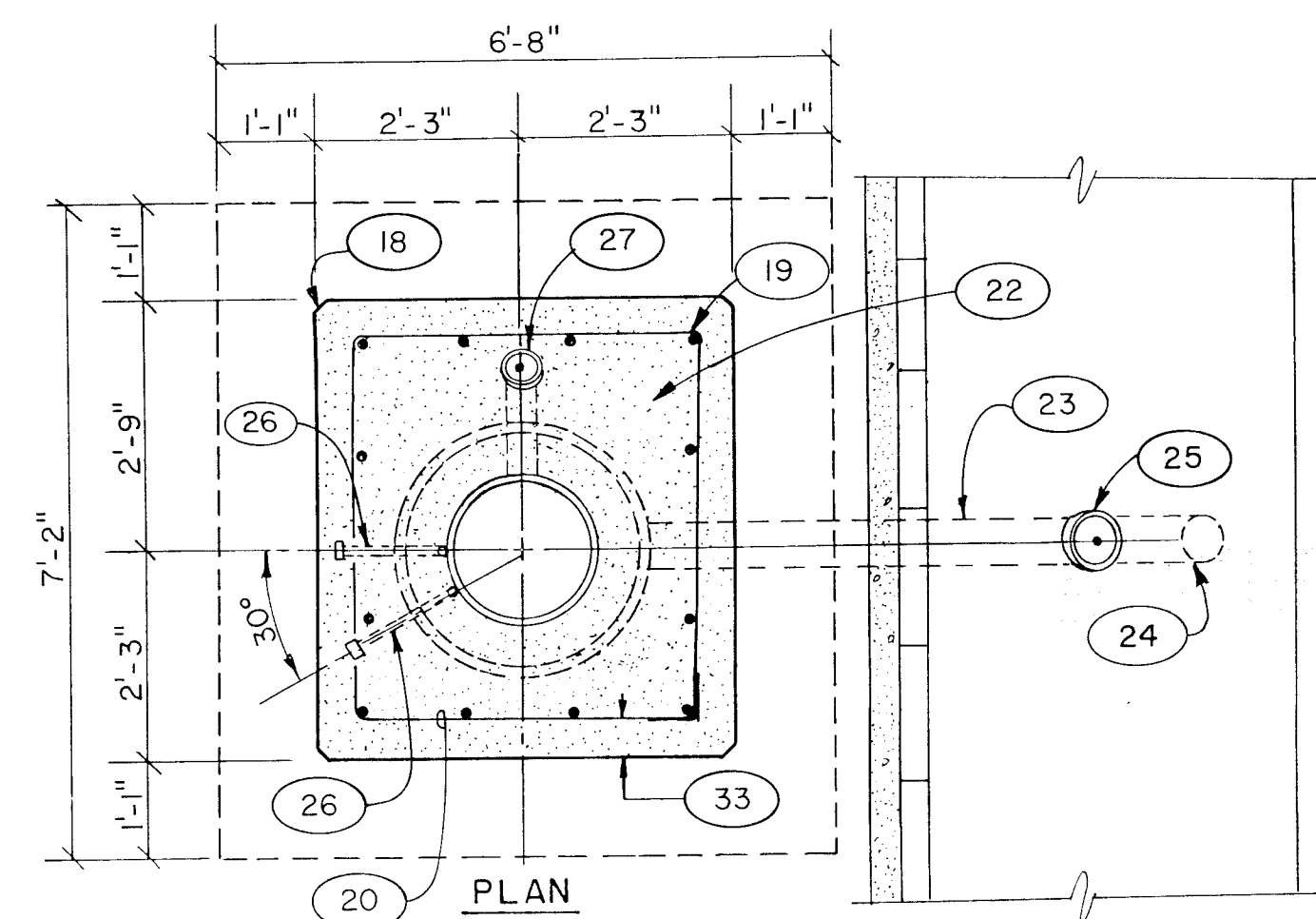


NOTE TO CONTRACTOR:
ALL PIPING FOR WELL DISCHARGE HEADER, DISCHARGE LINE (THROUGH 10" X 16" REDUCER) AND WASH LINE SHALL BE INSTALLED IN PLACE.

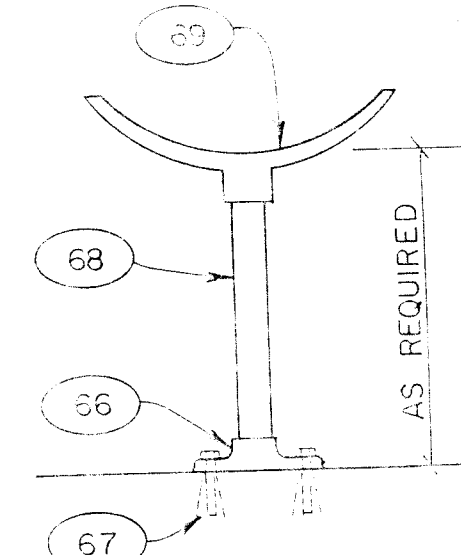
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WILLIAM MATOTAN & ASSOCIATES, INC.		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE	
230 TUNNEY AVE. N.E. ALBUQUERQUE, N.M. 87109		CORPS OF ENGINEERS	
DESIGNED BY: LDR		SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL	
DRAWN BY: RA		ALBUQUERQUE, NEW MEXICO	
CHECKED BY: WLM		WELL EQUIPMENT - BURTON WELL NO. 4	
DATE: APRIL 1987		MECHANICAL PLAN AND DETAILS	
SOL. NO. DACW47-87-B-0005		FILE NUMBER	
DATE		13.1	

NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE EDITIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1984.

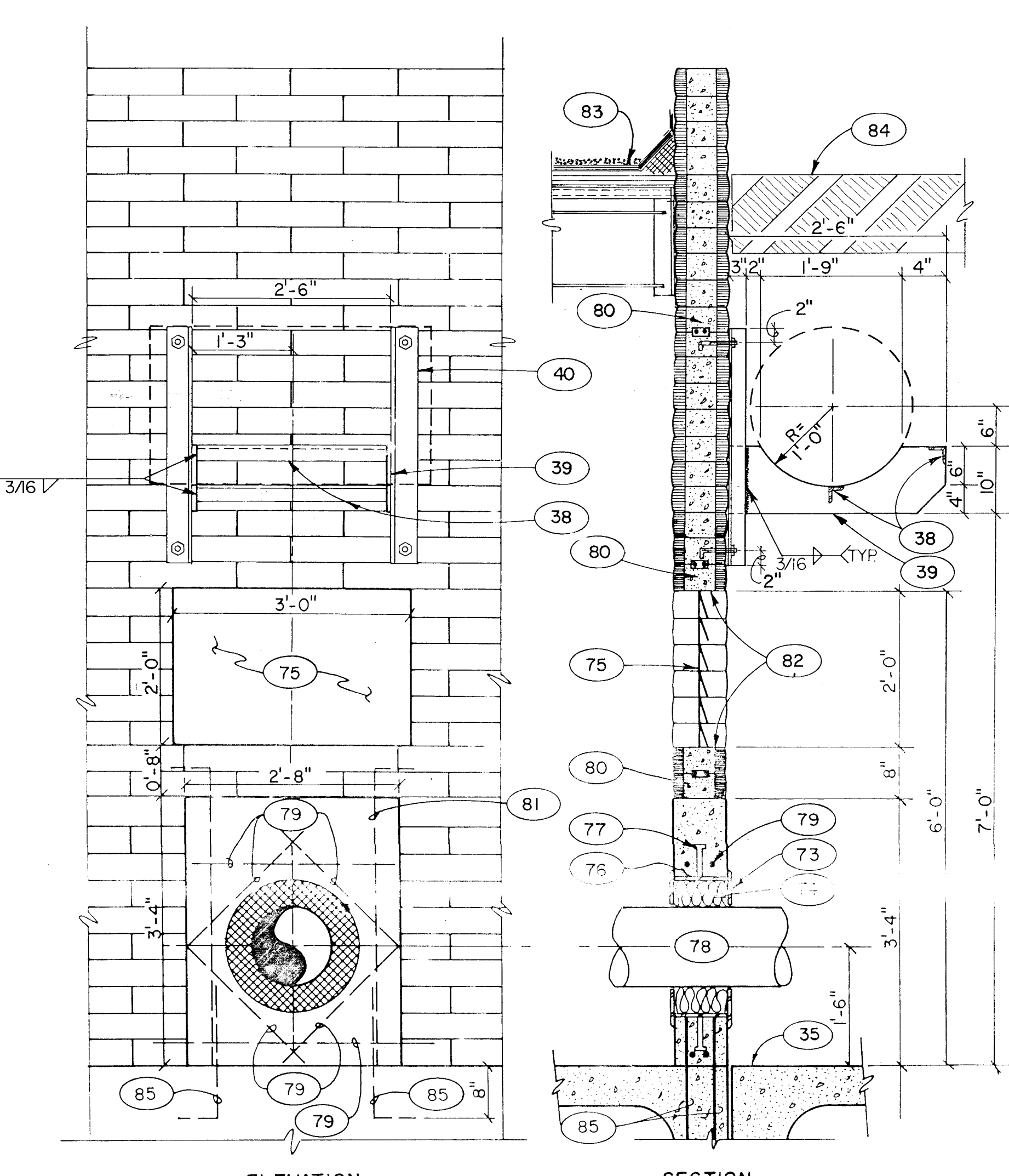




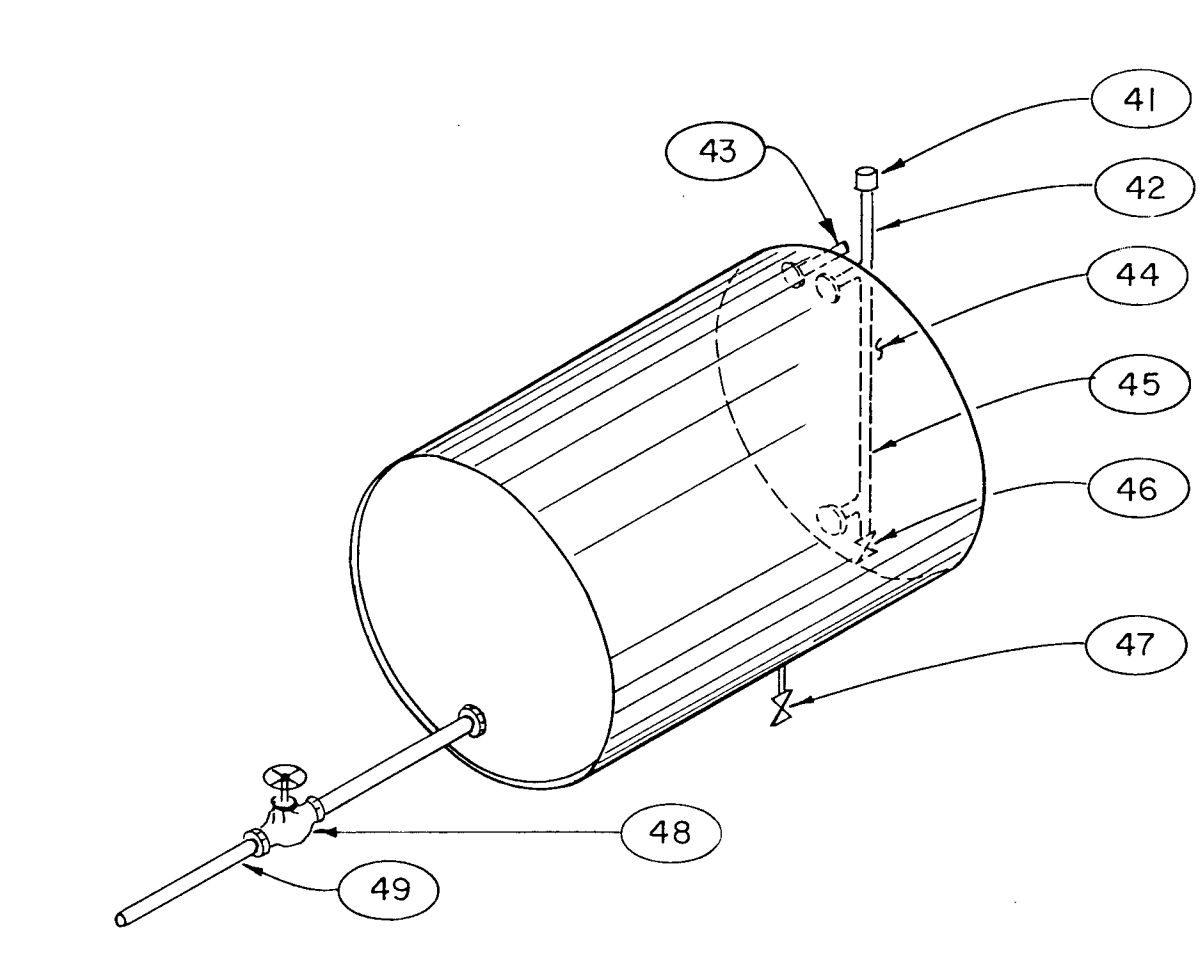
PUMP FOUNDATION DETAILS
SCALE: 1/2" = 1'-0"



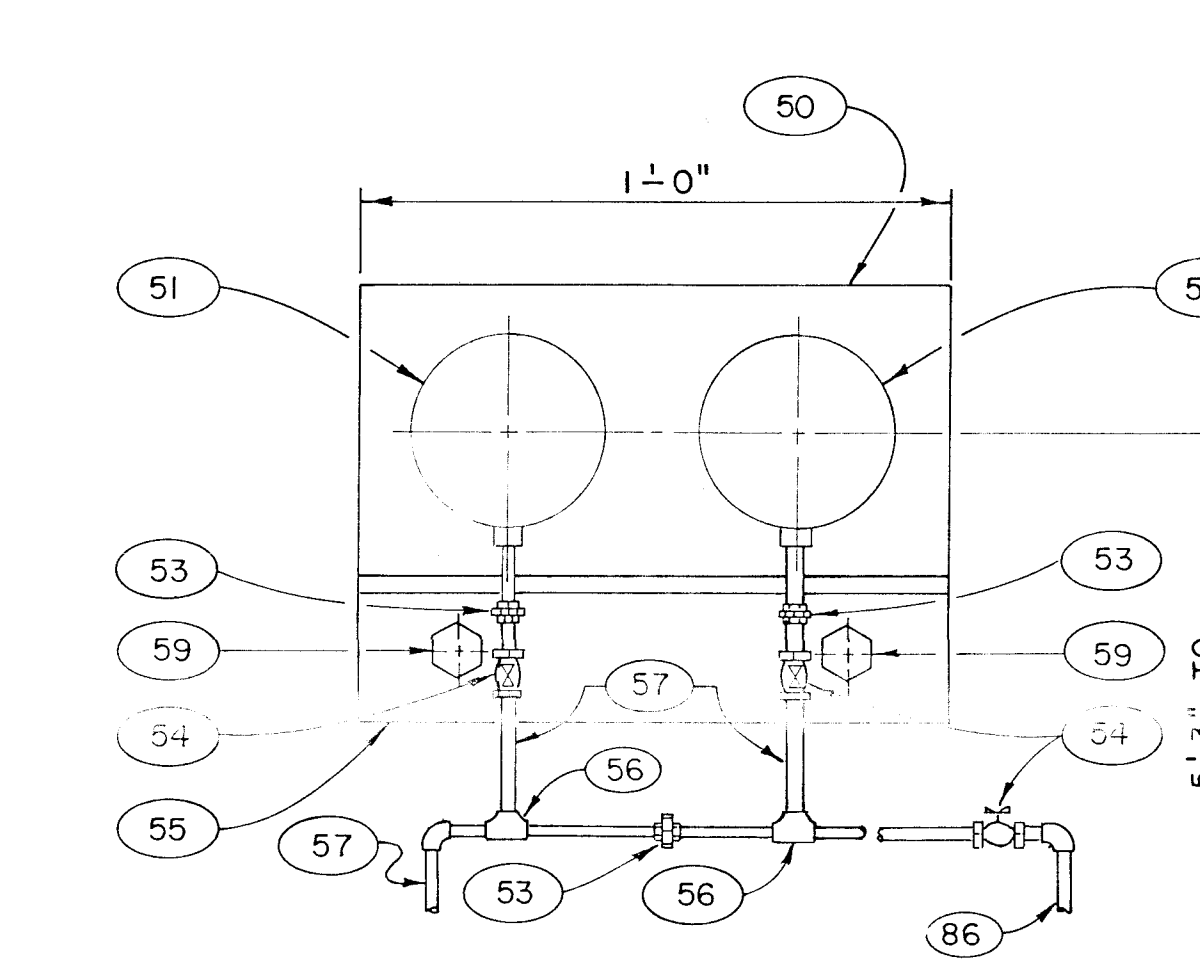
PIPE SUPPORT
NTS



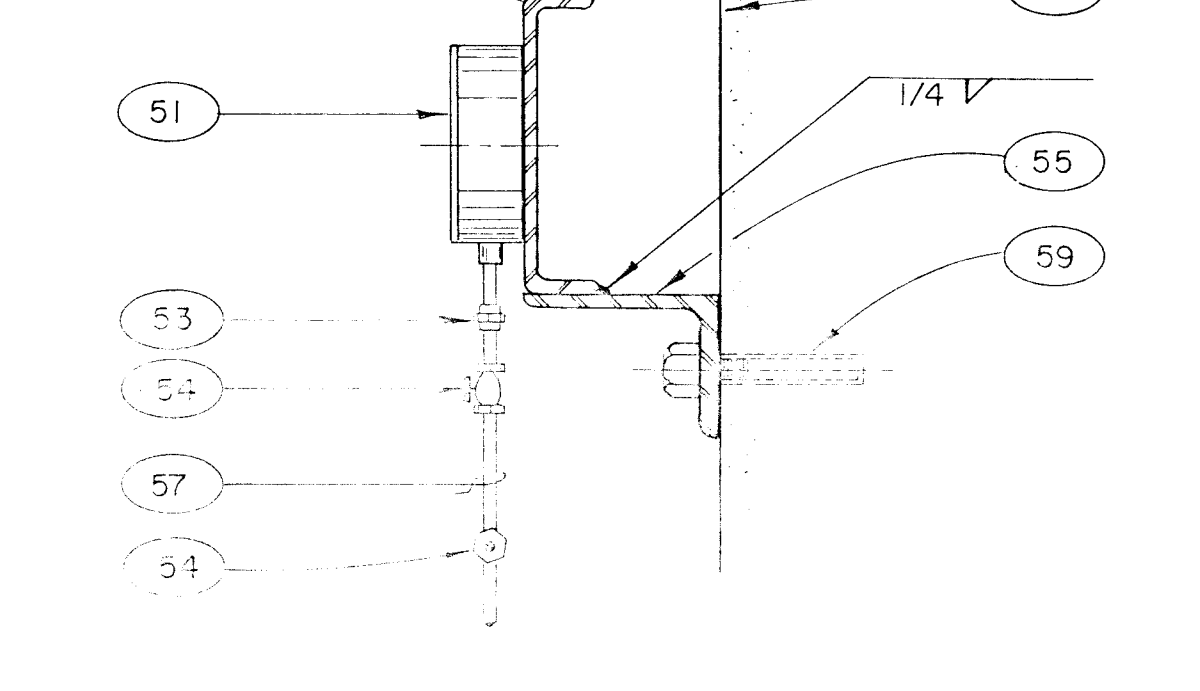
WALL DETAIL (2)
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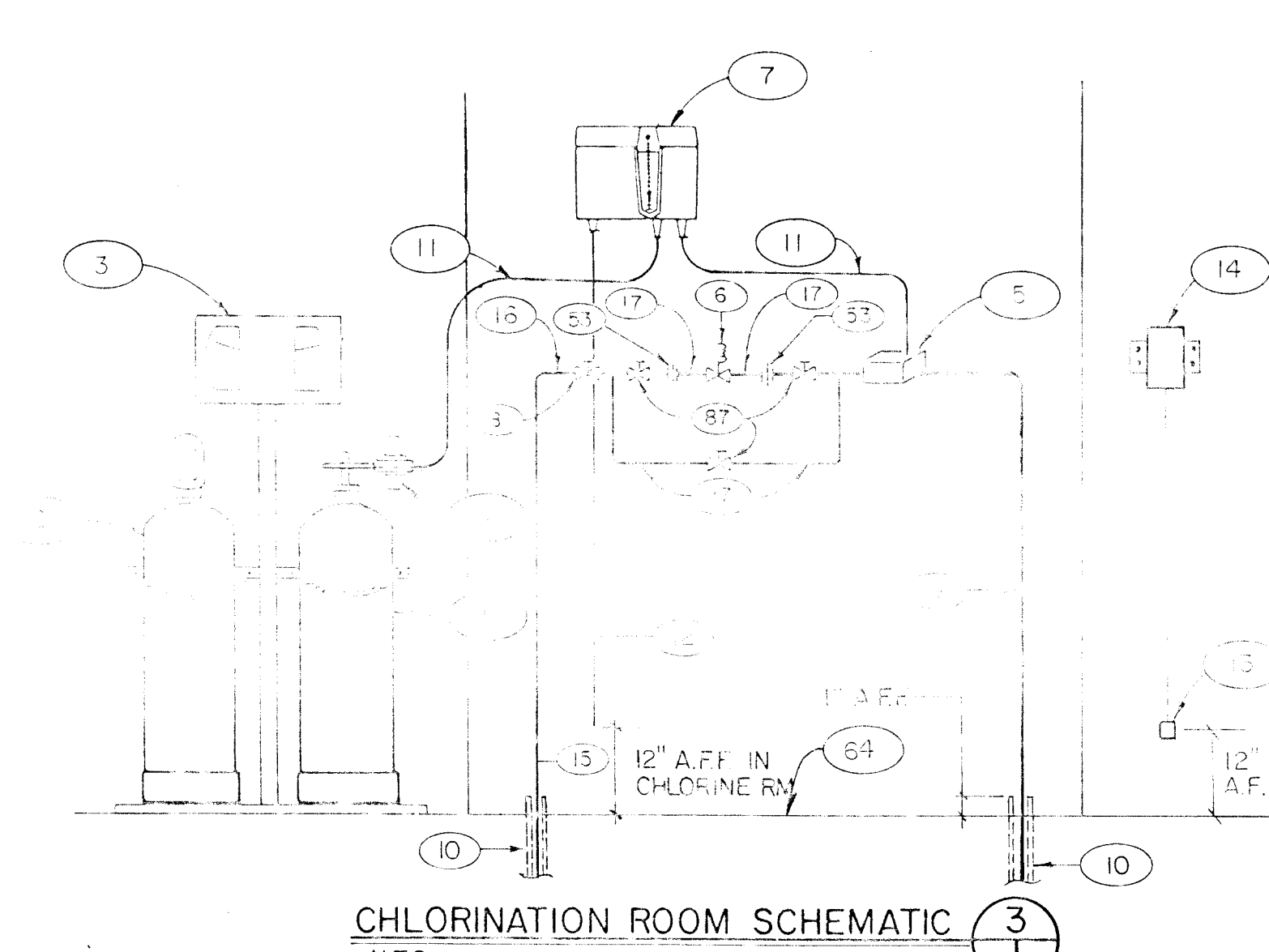
OIL DRUM DETAIL
NOT TO SCALE



DISCHARGE PRESSURE GAUGE AND SWITCH
NOT TO SCALE

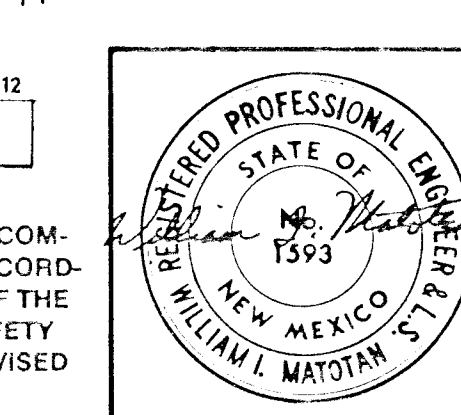


SECTION



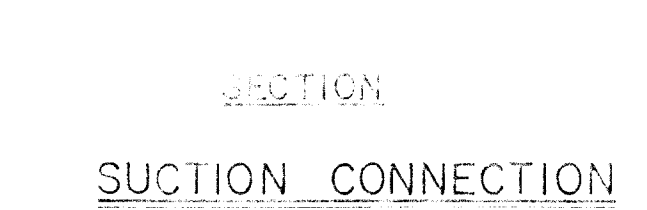
CHLORINATION ROOM SCHEMATIC
NTS

NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL," REVISED OCTOBER, 1994.

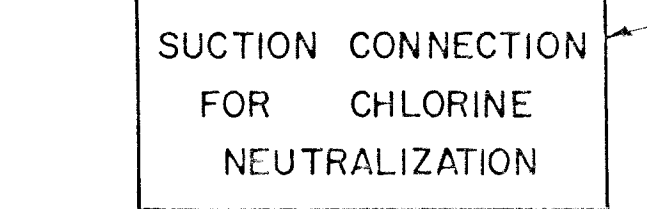


- KEYED NOTES**
- 150# CHLORINE GAS CYLINDER (ON LINE)
 - 150# CHLORINE GAS CYLINDER (STANDBY)
 - DUAL CYLINDER SCALE, FLOOR MOUNTED WITH SAFETY CHAINS FOR GAS CYLINDERS
 - VACUUM REGULATOR - CHECK UNIT
 - CHLORINE GAS INJECTOR
 - SOLENOID SHUT-OFF VALVE - CONDUIT TO RTU
 - CHLORINATOR CONTROL UNIT, 100# PER DAY CAPACITY, WALLACE & TIERNAN MODEL A-741 PANEL MOUNTED, OR APPROVED EQUAL.
 - 2" GATE VALVE AND 2" X 3/4" REDUCER BUSHING
 - CHLORINE SOLUTION LINE TO INJECTOR IN METER PIT
 - SCHEDULE 40 PVC SLEEVE TO EXTEND INTO METER PIT
 - CHLORINE GAS TUBING
 - CHLORINE GAS TUBING - VENT TO ATMOSPHERE
 - CHLORINE DETECTOR - SENSOR HEAD (STRAP TO WALL 12" AFF)
 - CHLORINE DETECTOR UNIT, EXIDYNE CHLOR-GUARD MODEL S152 OR APPROVED EQUAL. SEE PLATE 16 FOR ALARM CIRCUITS.
 - 2" STUB-OUT FROM BUILDING WATER SUPPLY
 - 2" SCHEDULE 40 PVC WATER SUPPLY LINE
 - 3/4" SCHEDULE 40 PVC NIPPLE
 - 3/4" CHAMFER ALL EXPOSED CORNERS
 - 12" - #4'S VERTICAL WITH 12" HOOK
 - #4'S HORIZONTAL AT 6" ON CENTER ALL FACES
 - 2" #4'S HORIZONTAL - ALL FACES
 - 3000 PSI CONCRETE WELL HEAD
 - EXISTING 6" DIAMETER GRAVEL FEED LINE
 - CUT EXISTING GRAVEL FEED LINE TO LENGTH AND FIT END WITH FERRULE WITH FLANGED COUNTERSUNK CLEANOUT PLUG TO MATCH SIDEWALK GRADE.
 - 6" FERRULE WITH FLANGED COUNTERSUNK CLEAN OUT PLUG
 - TWO EXISTING 2-1/2" DIAMETER GAGE LINES WITH LONG RADIUS BENDS.
 - NEW 4" CHEMICAL FEED LINE WITH THREADED CAP INSTALLED
 - FOUR - 3/4" DIAMETER ANCHOR BOLTS, 16" LONG WITH 2" HOOK EMBEDDED 12" INTO CONCRETE. LOCATE AS REQUIRED FOR APPROVED PUMP DISCHARGE HEAD
 - TOP OF EXISTING SURFACE LINER
 - EXISTING 3" GROUT AROUND SURFACE LINER
 - EXISTING WELL CASING
 - EXISTING SURFACE LINER
 - 3" CLEAR COVER OVER BAR
 - 12" PREFORMED EXPANSION JOINT-ALL AROUND
 - FINISHED FLOOR OF PUMP ENCLOSURE
 - TOP OF WELL HEAD
 - REMOVE EXISTING CASING AS REQUIRED
 - 12" X 2" X 1/4"
 - 1/4" X 10" X 2-1/2" PLATE
 - 1/4" X 3" X 1/4" X 3'-0" WITH 1/2" DIAMETER X 8" ANCHOR BOLTS WITH 2" HOOK
 - INSECT SCREEN
 - AIR VENT
 - 1" CARPETED NIPPLE THREADED INTO END OF DRUM AT HIGHEST POINT
 - 55 GALLON OIL DRUM
 - TANK LEVEL SIGHT GLASS
 - DRAIN VALVE
 - TAP AND STOP COCK, TAPPED INTO BOTTOM OF DRUM FOR CONDENSATION REMOVAL
 - THREADED SHUT-OFF VALVE
 - GRAVITY LINE TO OIL DRUM
 - OR 1/2" X 10" CHANNEL TO ACCOMMODATE PRESSURE GAGE AND MERCURIO SWITCH - DRILL AND TAP TO RECEIVE GAGES
 - PRESSURE GAGE - 4 INCH DIAMETER HOUSING
 - MERCURIO SWITCH - 4 INCH DIAMETER HOUSING
 - UNION
 - 1/2" PET COCK
 - 1/4" X 3" X 1/4" X 1'-0" LLH
 - 1/2" X 1/2" X 1/2" TEE
 - 1/2" COPPER TUBING TO DISCHARGE HEADER
 - MASONRY WALL
 - 3/8" BOLTS W/EXPANSION SHIELDS
 - 6" DIAMETER BRASS ESCUTCHEON - USE SEALANT TO PROVIDE AIR TIGHT CONNECTION TO WALL.
 - 3" MALE THREAD FINE DEPARTMENT STANDARD CONNECTOR WITH CAP
 - 3" - 90° CAST IRON ELBOW
 - 3" CAST IRON NIPPLE - TERMINATE 3" ABOVE FINISH FLOOR
 - FINISH FLOOR OF CHLORINE ROOM
 - RED LAMINATED SIGN WITH 3/4" WHITE LETTERS TO READ AS SHOWN. MOUNTED TO WALL WITH FOUR - 1/4" X 3" BOLTS AND EXPANSION SHIELDS
 - 6" DIAMETER FLOOR FLANGE
 - TWO - 1/2" X 3" BOLTS AND EXPANSION SHIELDS
 - 2" DIAMETER THREADED PIPE - STANDARD WEIGHT
 - PIPE SADDLE - SIZE AS REQUIRED. THREADED TO 68 ABOVE
 - 1/8" STEEL PLATE WELD ALL SEAMS AND GRIND SMOOTH
 - 1/4" PLATE X 2" LONG HINGE WELD TO DOOR AND FRAME WITH 1/8" FILLED ALL AROUND
 - 3/8" STEEL PLATE ASTM A514 GR100 WELD TO FRAME AND DOOR WITH 1/8" FILLED ALL AROUND. TWO REQUIRED.
 - METAL ESCUTCHEON
 - BATT INSULATION
 - VENTILATION LOUVER
 - 1/4" STEEL PLATE SLEEVE 7-5/8" WIDE X 1'-8-1/2" INSIDE DIAMETER
 - 12" DIAMETER ANCHOR BOLTS, WELD TO SLEEVE, 4 REQUIRED @ 90°
 - 12" DIAMETER WELL HEAD DISCHARGE SPOOL
 - 2" #18, POSITION AS INDICATED
 - BOND BEAM WITH 2-#4 BARS, EXTEND 1'-6" BEYOND OPENINGS.
 - 2-#4 BARS, EXTEND INTO TOP BOND BEAM WITH 6" 90° HOOKS. TYPICAL BOTH SIDES.
 - CONNECT PER MANUFACTURER'S INSTRUCTIONS.
 - 4-PLY BUILT UP ROOFING WITH BALLAST
 - ACOUSTICAL LOUVERS
 - #4 DOWELS 1'-3" WITH 6" HOOK, ONE REQUIRED EACH FACE, AS INDICATED.
 - 1/2" VENT LINE WITH 1/2" NPT FEMALE FITTING ON END
 - 3/4" GATE VALVE

SCALE: 3/4" INCH = 1' FOOT
SCALE: 1/2" INCH = 1' FOOT

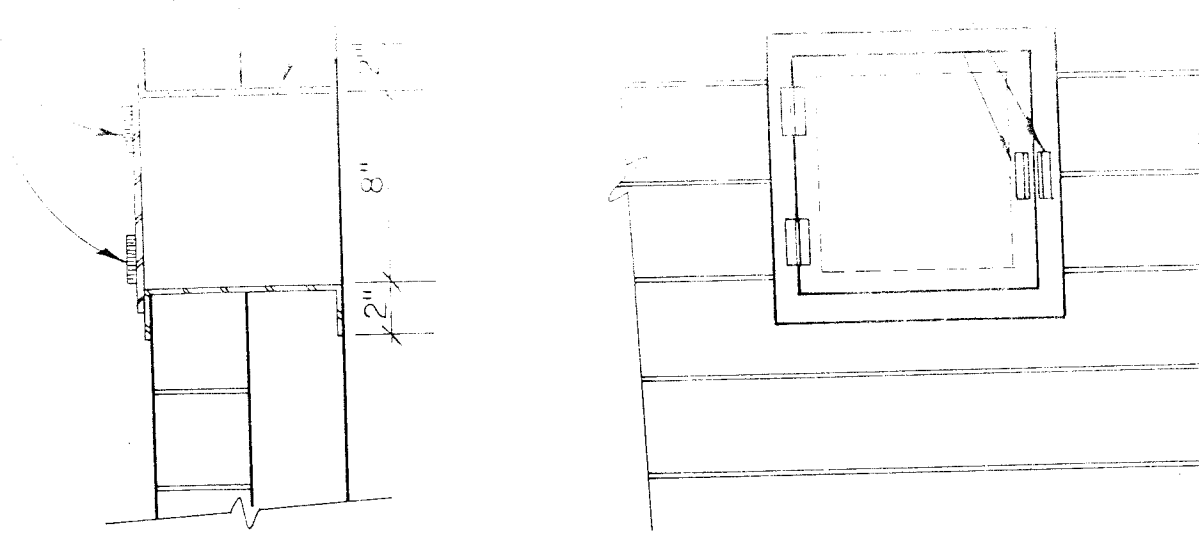


SUCTION CONNECTION
NTS

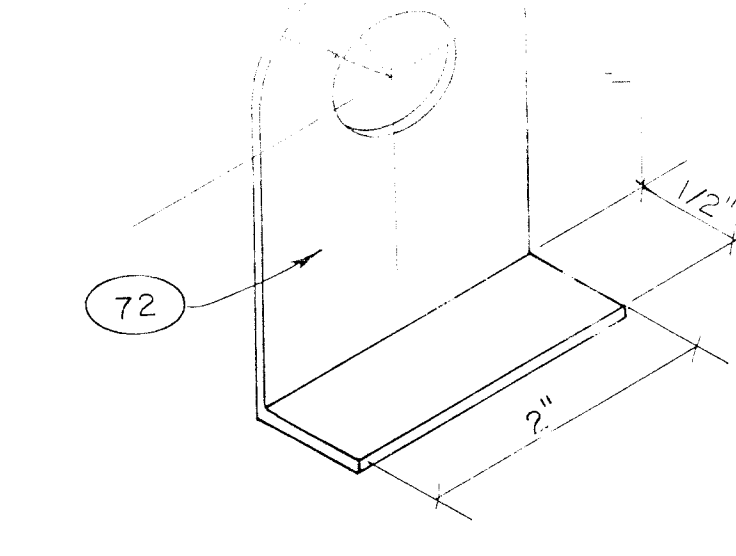


SUCTION CONNECTION FOR CHLORINE NEUTRALIZATION

IDENTIFICATION SIGN
NTS



OIL TANK FILLER HOSE DOOR
NTS

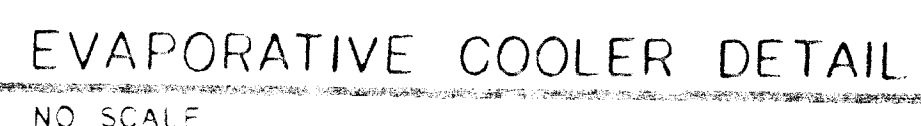


HOSE DOOR LOCK PLATE
NTS

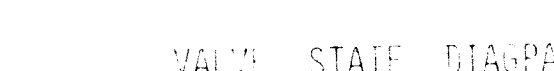
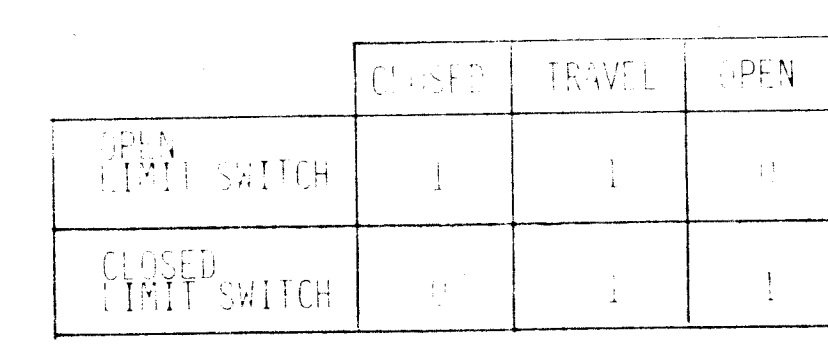
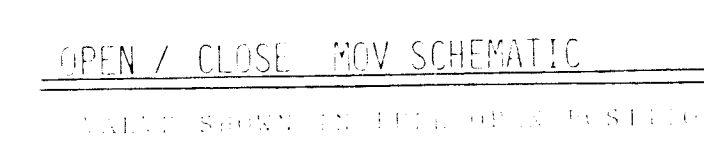
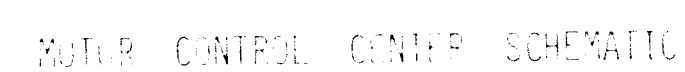
VALUE ENGINEERING PROPOSALS MEAN HIGHER PROFITS

DRAWING OF WORK AS BUILT

DESIGNED BY E.P.-L.R.	WILLIAM MATOTIAN & ASSOCIATES, INC. ENGINEERS 230 Tupper, N.E., Albuquerque, NM 87108 505/263-6467	U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO
DRAWN BY R.A. & J.W.		
CHECKED BY W.I.M.		
DATE APRIL 1987		
SOL. NO. DACW47-87-B-0005	FILE NUMBER	14.1
CITY OF ALBUQUERQUE PROJECT NO. 3065		



WILLIAM MATOTON & ASSOCIATES, INC. ENGINEERS 270 Truman N.E., Albuquerque, NM 87105 (505) 265-3167		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS SALT LAKE CITY, NEW MEXICO	
DESIGNED BY COC	SOUTH VALLEY E.P.A. SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO		
DRAWN BY COH	WELL EQUIPMENT - BURTON WELL NO. 4		
CHECKED BY COC	MECHANICAL PLAN AND DETAILS		
<i>William J. Matotoni</i>		SOL. NO. DACW47-87-B-0005 FILE NUMBER	PLATE 15.1
DATE: APRIL 1987			



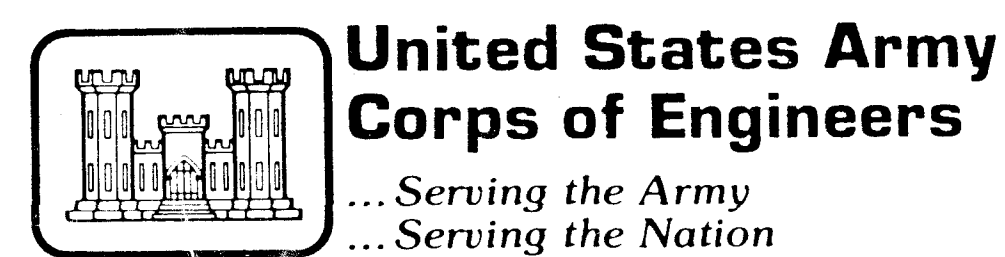
INSTRUMENT LEGEND

PIPING LEGEND

[illegible][illegible]

NOTE: ALL OPERATIONS PERFORMED IN ACCOMPLISHING THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED

SYMBOLO	DESCRIPTIONS	DATE	APPROVAL
REVISIONS			
WILLIAM MATOTAN B ASSOCIATES, INC ENGINEERS 230 Truman Ave., Albuq. NM 87108 (505) 266-8667		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO	
DESIGNED BY TELCON	SOUTH VALLEY EPA SUPPLRUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO		
DRAWN BY TELCON	WELL EQUIPMENT - BURTON WELL NO. 4		
CHECKED BY F.J.J.	CONTROL DIAGRAMS		
<i>William L. Motator</i>		SOL. NO. DACW47-87-B-0005 FILE NUMBER	PLATE 17
DATE	APPROV		



Albuquerque District

SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL

ALBUQUERQUE, NEW MEXICO

PLANS FOR CONSTRUCTION OF BURTON WELL NO. 4

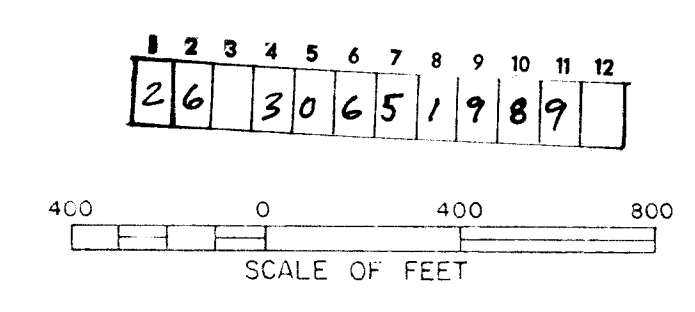
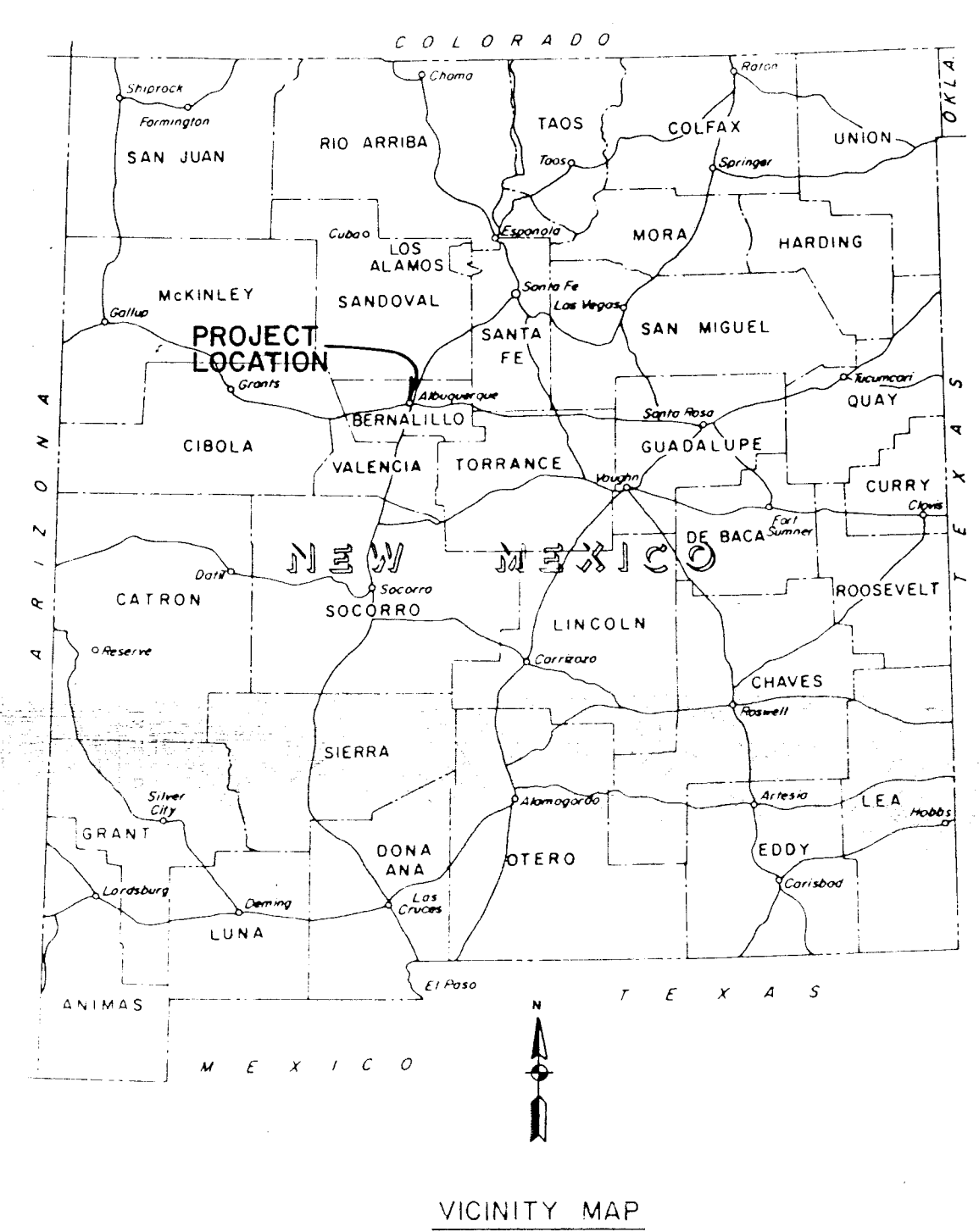
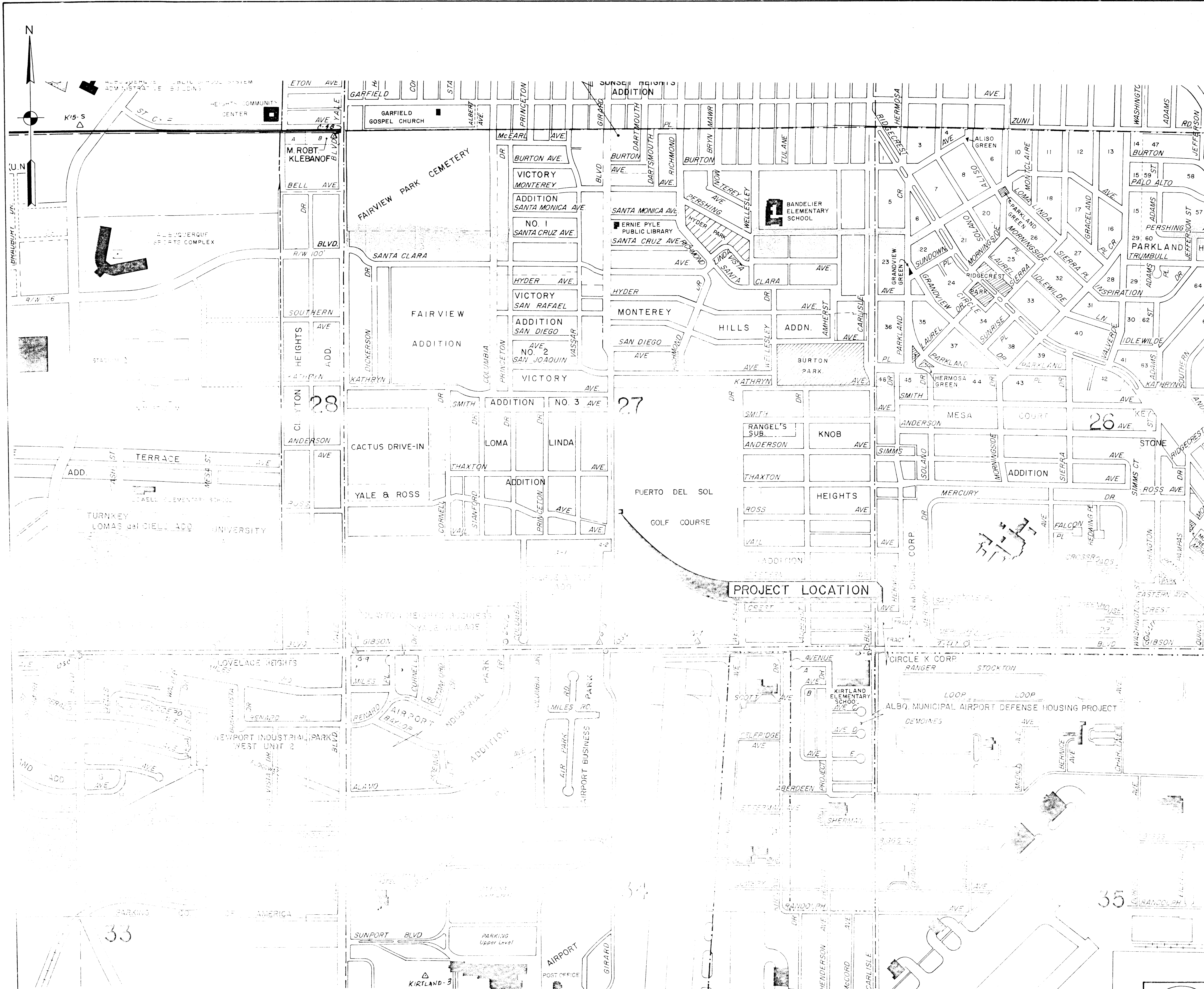
INDEX OF DRAWINGS $\Delta\Delta$

PLATE NO.	FILE NO.	TITLE
1.2		TITLE SHEET
2		PROJECT LOCATION & VICINITY MAP
3.1		PLOT PLAN - EXISTING FACILITIES, WELL & WASHLINE LOCATION
3.2		WELL DETAILS
3.2		WASH LINE PLAN AND PROFILE & DETAILS

SOLICITATION NO. DACW47-87-3-0001

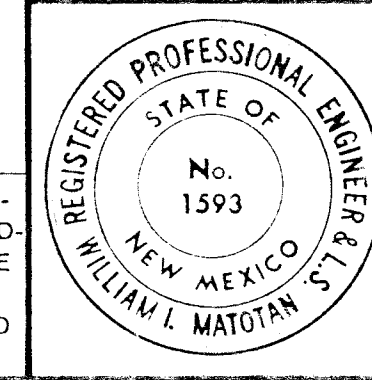
WILLIAM MATOTAN & ASSOCIATES
ENGINEERS
ALBUQUERQUE, NEW MEXICO

1	2	3	4	5	6	7	8	9	10	11	12
2	6	3	0	6	5	1	8	8	9		
REVISIONS											
SIGNATURES AFFIXED BELOW INDICATE OFFICIAL RECOMMENDATION AND APPROVAL OF ALL DRAWINGS IN THIS SET AS INDEXED ON THIS SHEET.											
SUBMITTED: [Signature] CHIEF, DESIGN BRANCH						APPROVAL RECOMMENDED: [Signature] CHIEF, ENGINEERING AND PLANNING DIVISION					
APPROVED: [Signature] LT COLONEL CORPS OF ENGINEERS, CE DISTRICT ENGINEER						PLATE 1.2					



PROJECT LOCATION
Scale: 1" = 400'

NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL," REVISED OCTOBER, 1984.

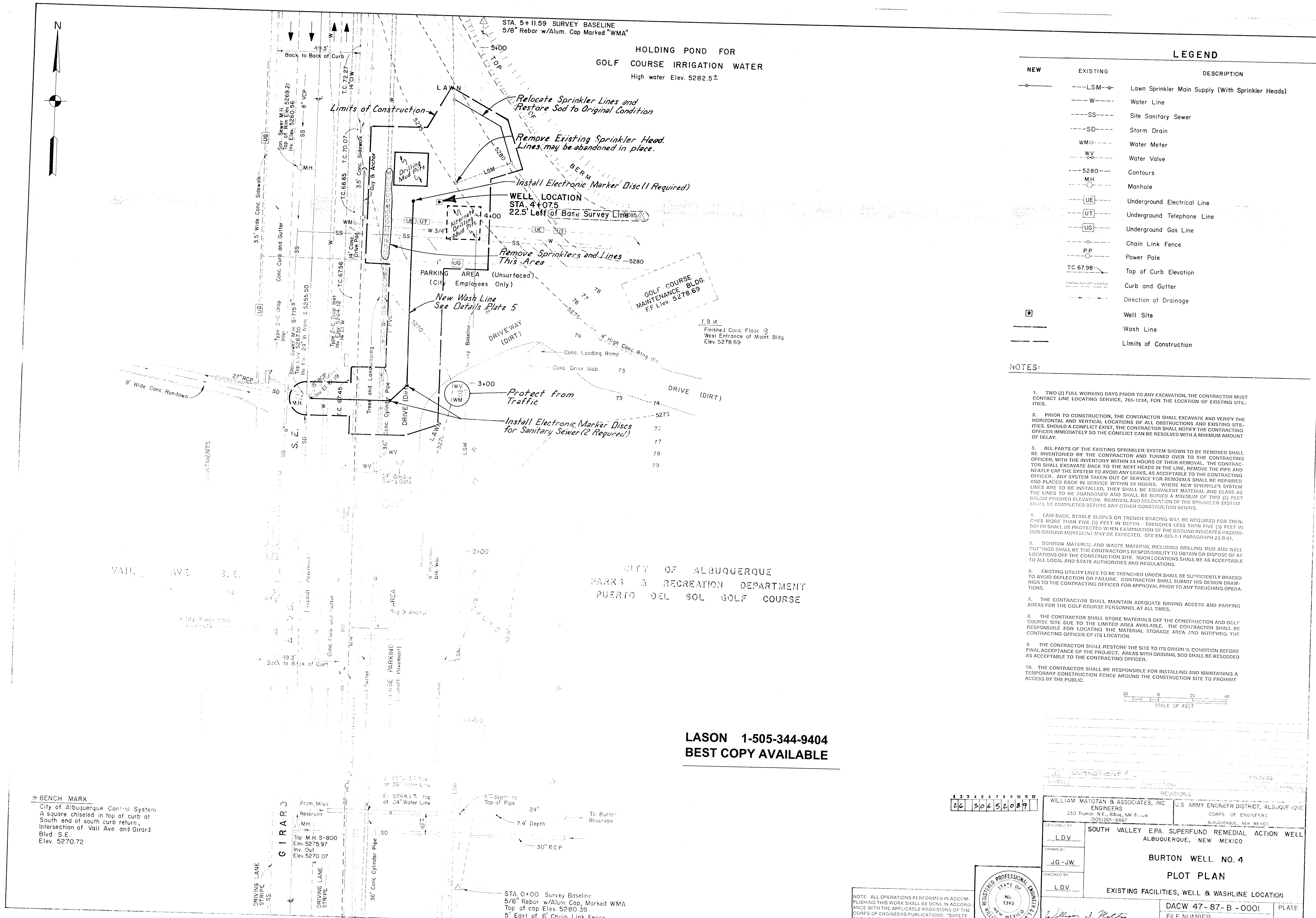


WILLIAM MATOTAN & ASSOCIATES, INC. ENGINEERS 230 Truman Ave., Albuquerque, N.M. 87108 (505) 263-9410		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE 2415 1st Avenue, S.W. ALBUQUERQUE, NEW MEXICO	
DESIGNED BY LDV	SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO		
DRAWN BY RKA	BURTON WELL NO. 4		
CHECKED BY LDV	PROJECT LOCATION AND VICINITY MAP		
DATE: OCTOBER 1986		DACW 47-87-B-0001 FILE NUMBER	PLATE 2

LASON 1-505-344-9404
BEST COPY AVAILABLE

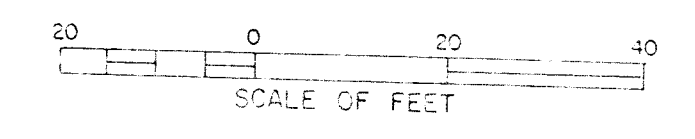
VALUE ENGINEERING PROPOSALS MEAN HIGHER PROFITS

DRAWING OF WORK AS BUILT



LEGEND		
NEW	EXISTING	DESCRIPTION
---	---LSM---	Lawn Sprinkler Main Supply (With Sprinkler Heads)
---	---	Water Line
---	---	Site Sanitary Sewer
---	---	Storm Drain
---	---	Water Meter
---	---	Water Valve
---	---	Contours
---	---	Manhole
---	---	Underground Electrical Line
---	---	Underground Telephone Line
---	---	Underground Gas Line
---	---	Chain Link Fence
---	---	Power Pole
---	---	Top of Curb Elevation
---	---	Curb and Gutter
---	---	Direction of Drainage
---	---	Well Site
---	---	Wash Line
---	---	Limits of Construction

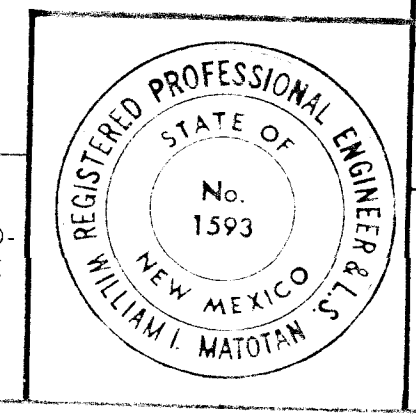
- NOTES:
1. TWO (2) FULL WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR THE LOCATION OF EXISTING UTILITIES.
 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS AND EXISTING UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONTRACTING OFFICER IMMEDIATELY SO THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 3. ALL PARTS OF THE EXISTING SPRINKLER SYSTEM SHOWN TO BE REMOVED SHALL BE INVENTORIED BY THE CONTRACTOR AND TURNED OVER TO THE CONTRACTING OFFICER, WITH THE INVENTORY WITHIN 24 HOURS OF THEIR REMOVAL. THE CONTRACTOR SHALL EXCAVATE BACK TO THE NEXT HEADS IN THE LINE, REMOVE THE PIPE AND NEATLY CAP THE SYSTEM TO AVOID ANY LEAKS, AS ACCEPTABLE TO THE CONTRACTING OFFICER. ANY SYSTEM TAKEN OUT OF SERVICE FOR REMOVALS SHALL BE REPAIRED AND PLACED BACK IN SERVICE WITHIN 24 HOURS. WHERE NEW SPRINKLER SYSTEM LINES ARE TO BE INSTALLED, THEY SHALL BE EQUIVALENT MATERIAL AND CLASS AS THE LINES TO BE ABANDONED AND SHALL BE BURIED A MINIMUM OF TWO (2) FEET BELOW FINISHED ELEVATION. REMOVAL AND RELOCATION OF THE SPRINKLER SYSTEM SHALL BE COMPLETED BEFORE ANY OTHER CONSTRUCTION BEGINS.
 4. LAID BACK, STABLE SLOPES OR TRENCH BRACING WILL BE REQUIRED FOR TRENCHES MORE THAN FIVE (5) FEET IN DEPTH. TRENCHES LESS THAN FIVE (5) FEET IN DEPTH SHALL BE PROTECTED WHEN EXAMINATION OF THE GROUND INDICATES HAZARDOUS GROUND MOVEMENT MAY BE EXPECTED. SEE EM 305-1-1 PARAGRAPH 23.8.01.
 5. BORROW MATERIAL AND WASTE MATERIAL INCLUDING DRILLING MUD AND WELL CUTTINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN OR DISPOSE OF AT LOCATIONS OFF THE CONSTRUCTION SITE. SUCH LOCATIONS SHALL BE AS ACCEPTABLE TO ALL LOCAL AND STATE AUTHORITIES AND REGULATIONS.
 6. EXISTING UTILITY LINES TO BE TRENCHED UNDER SHALL BE SUFFICIENTLY BRACED TO AVOID DEFLECTION OR FAILURE. CONTRACTOR SHALL SUBMIT HIS DESIGN DRAWINGS TO THE CONTRACTING OFFICER FOR APPROVAL PRIOR TO ANY TRENCHING OPERATIONS.
 7. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRIVING ACCESS AND PARKING AREAS FOR THE GOLF COURSE PERSONNEL AT ALL TIMES.
 8. THE CONTRACTOR SHALL STORE MATERIALS OFF THE CONSTRUCTION AND GOLF COURSE SITE DUE TO THE LIMITED AREA AVAILABLE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING THE MATERIAL STORAGE AREA AND NOTIFYING THE CONTRACTING OFFICER OF ITS LOCATION.
 9. THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION BEFORE FINAL ACCEPTANCE OF THE PROJECT. AREAS WITH ORIGINAL SOD SHALL BE RESODDED AS ACCEPTABLE TO THE CONTRACTING OFFICER.
 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING A TEMPORARY CONSTRUCTION FENCE AROUND THE CONSTRUCTION SITE TO PROHIBIT ACCESS BY THE PUBLIC.



* BENCH MARK
City of Albuquerque Control System
A square chiseled in top of curb at
South end of south curb return,
Intersection of Vail Ave. and Girard
Blvd. S.E.
Elev. 5270.72

LASON 1-505-344-9404
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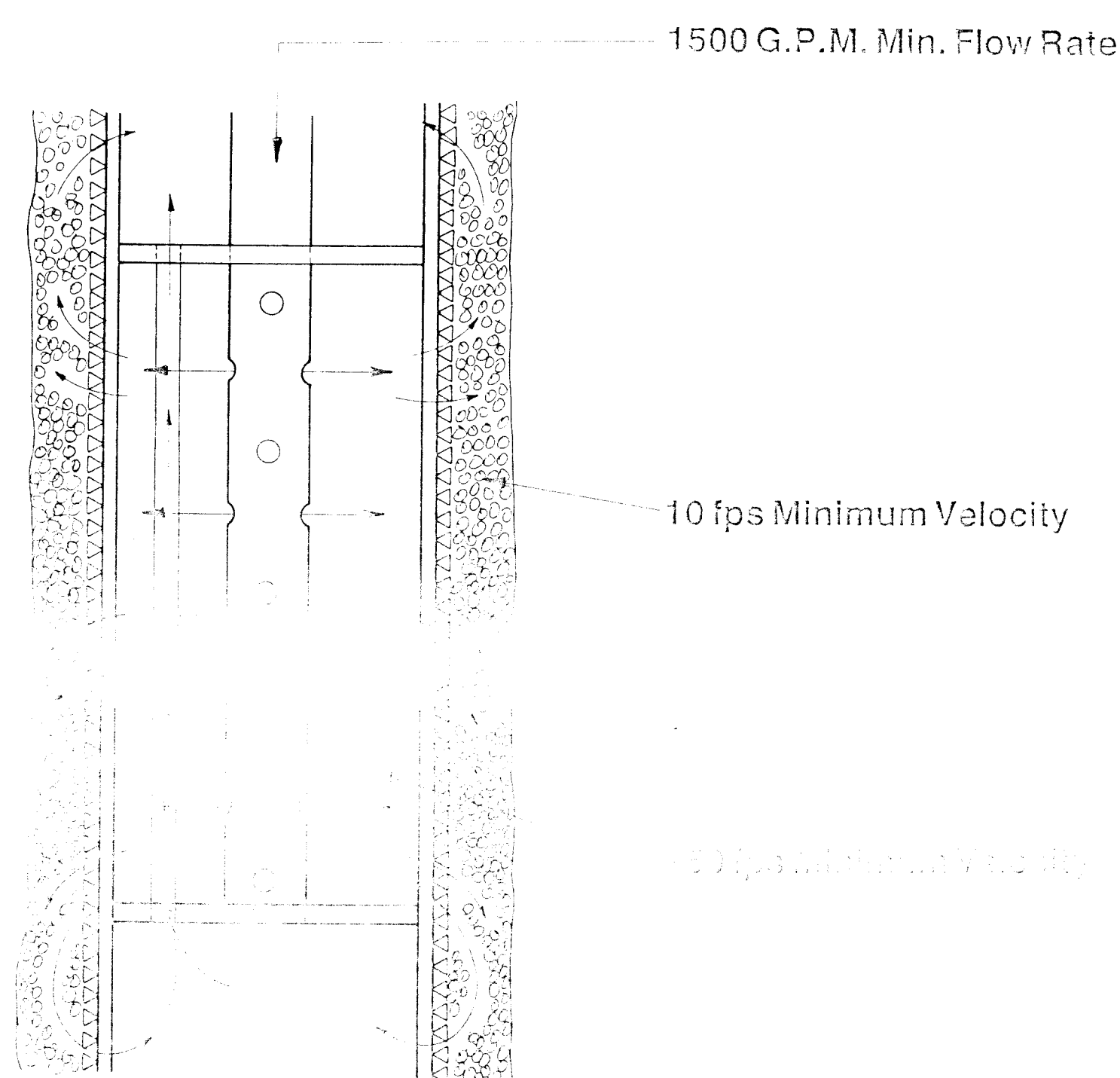
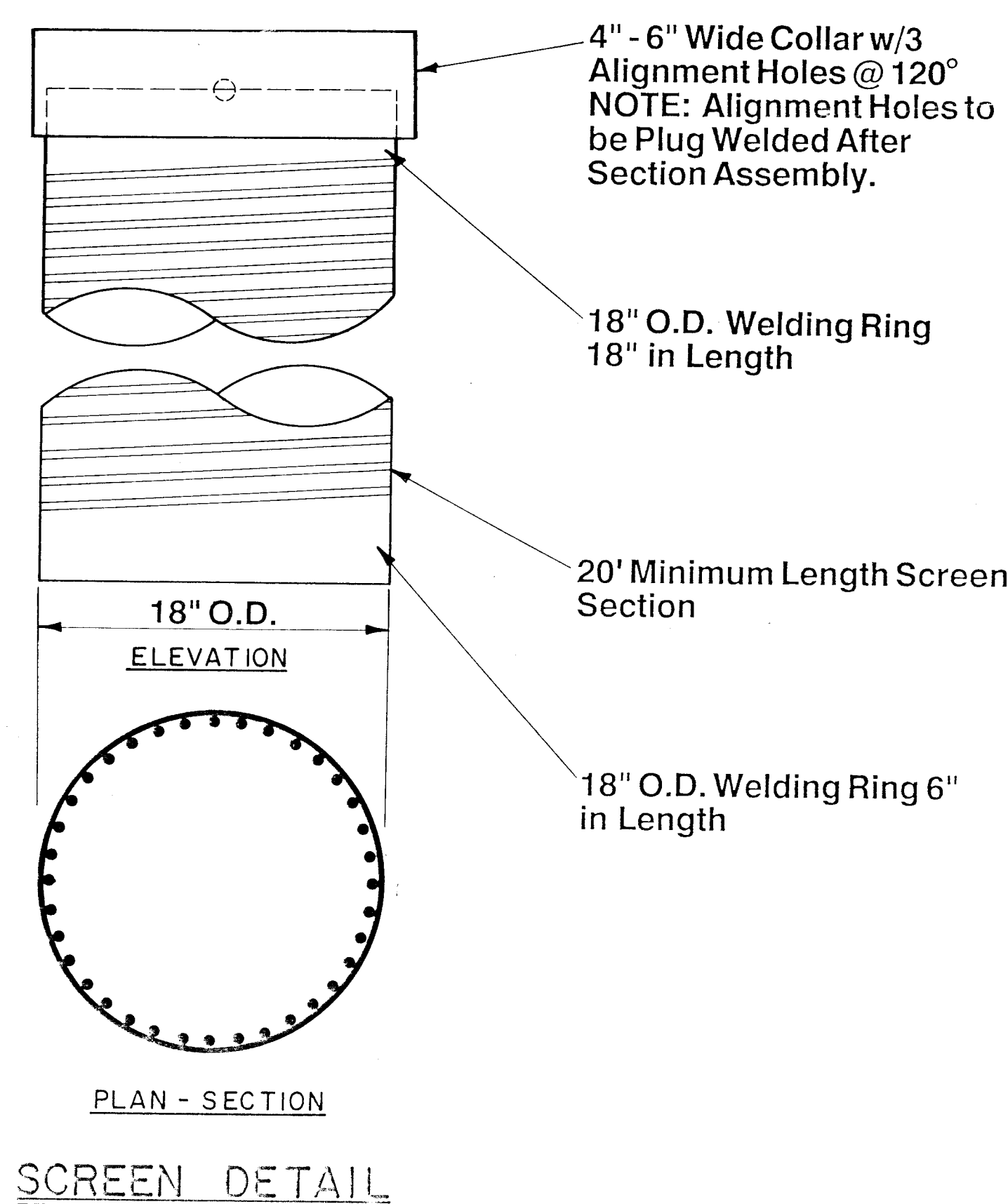
NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS, "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED EDITION, 1984.



AMENDMENT #		NOV 86	
SYMBOL		DESCRIPTION	
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VALUE ENGINEERING PROPOSALS MEAN HIGHER PROFITS

DRAWING OF WORK AS BUILT



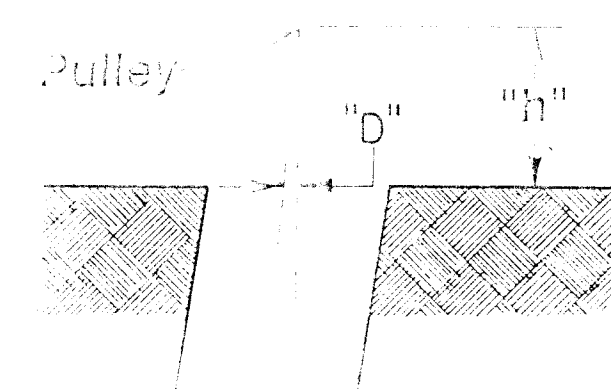
JETTING TOOL DETAIL

X = Well Deviation at any given depth, in inches. (Maximum Allowable Deviation 1/4" per 10' depth)

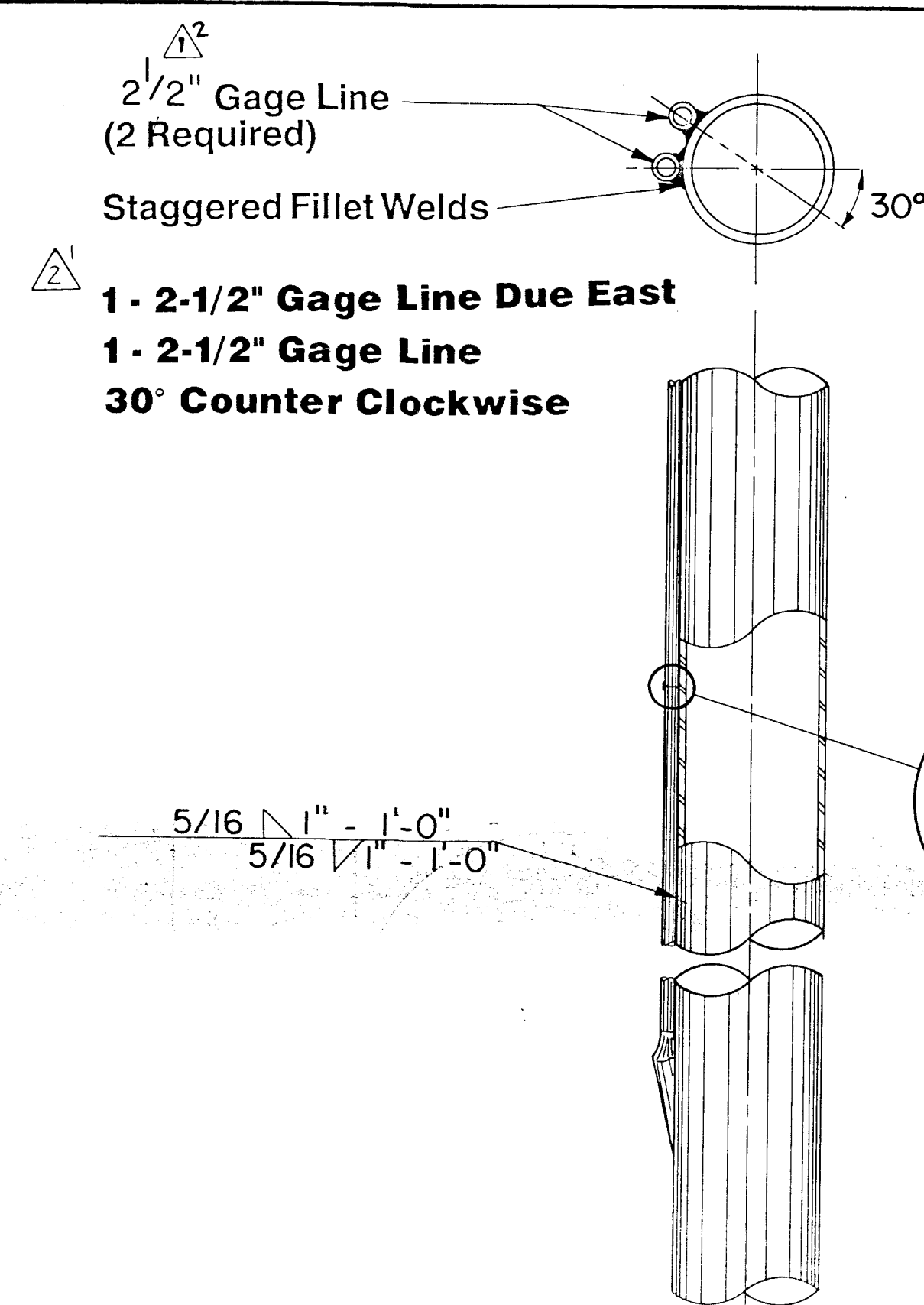
D = Distance from the center of the casing to the center of the jetting tool, in feet.

H = Distance from the center of the jetting tool to the center of the casing, in feet.

h = Distance from the center of the jetting tool to the top of the casing, in feet.



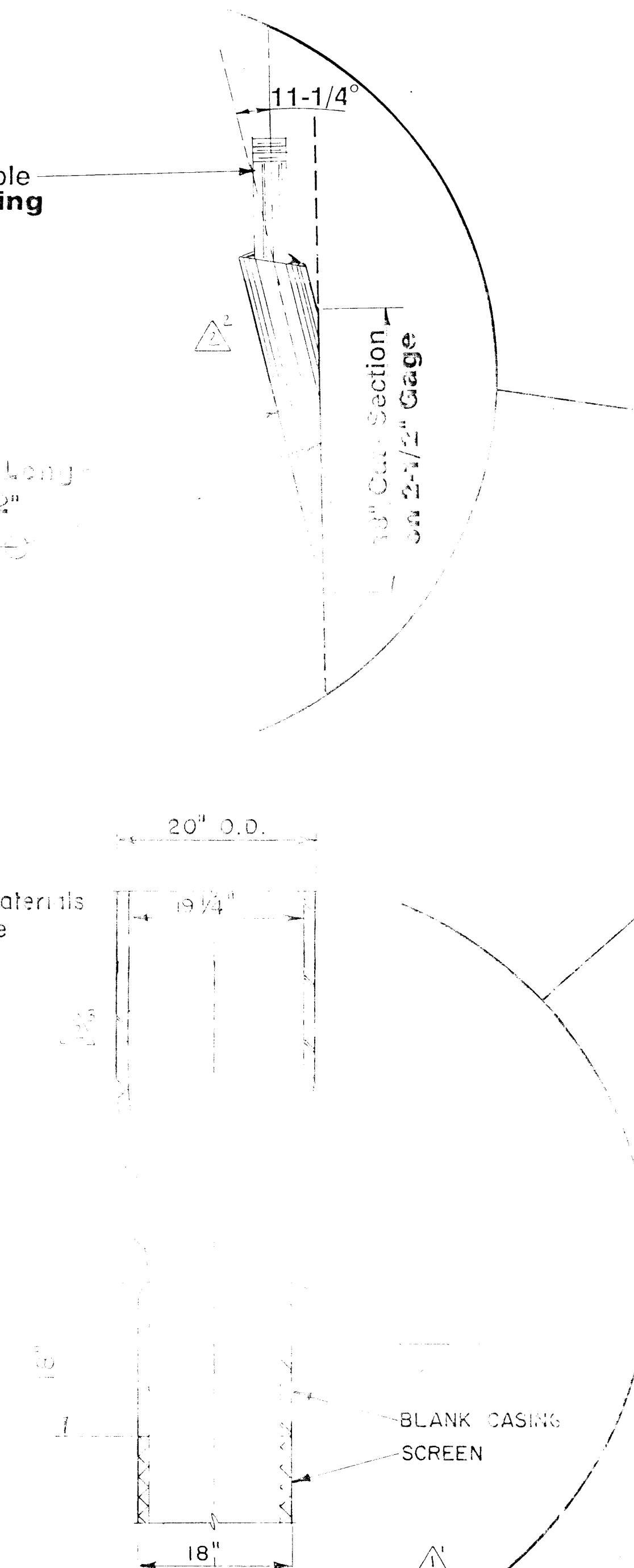
CAGING/DEFLECTION DETAIL



2-1, 2" Threaded Nipple Weld to Blank Casing

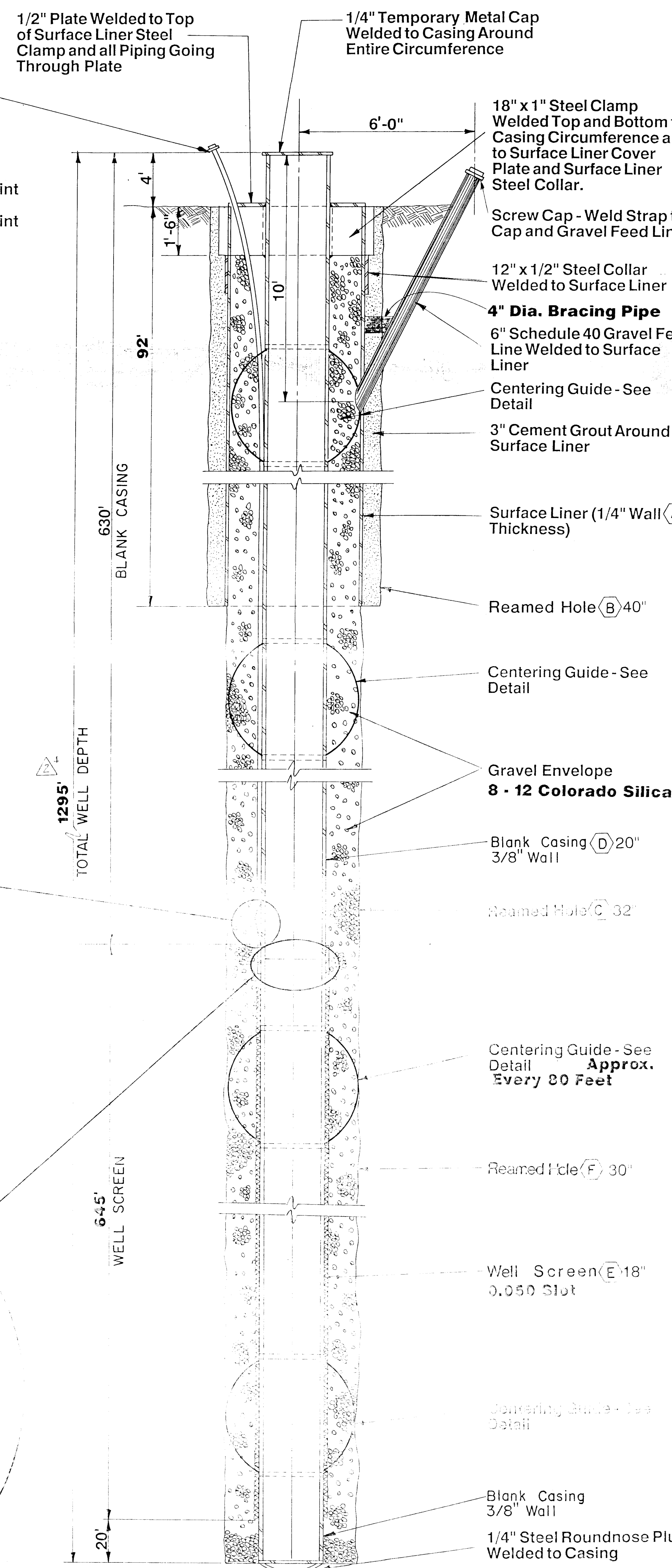
2" Standard Pipe 3" Long 1/2" Dia Over 2-1/4"

NOTE: Transition Section Materials Shall Conform to the Paragraph Casing Materials in the Specifications.



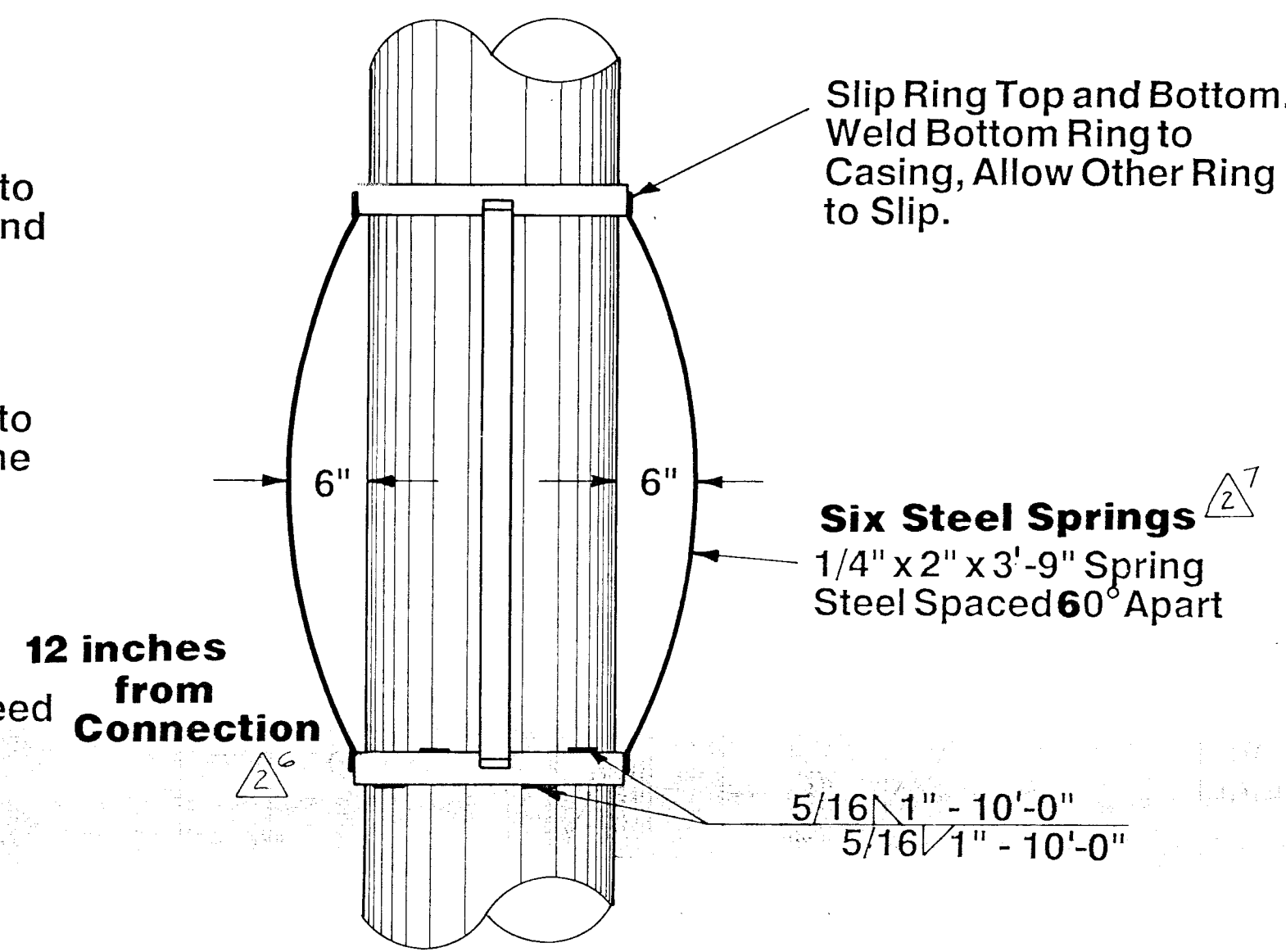
GAGE LINE DETAIL

20" WELL CASING TO 18" WELL SCREEN
CONCENTRIC CONE REDUCER
ALTERNATE No. 1
FACTORY FABRICATED



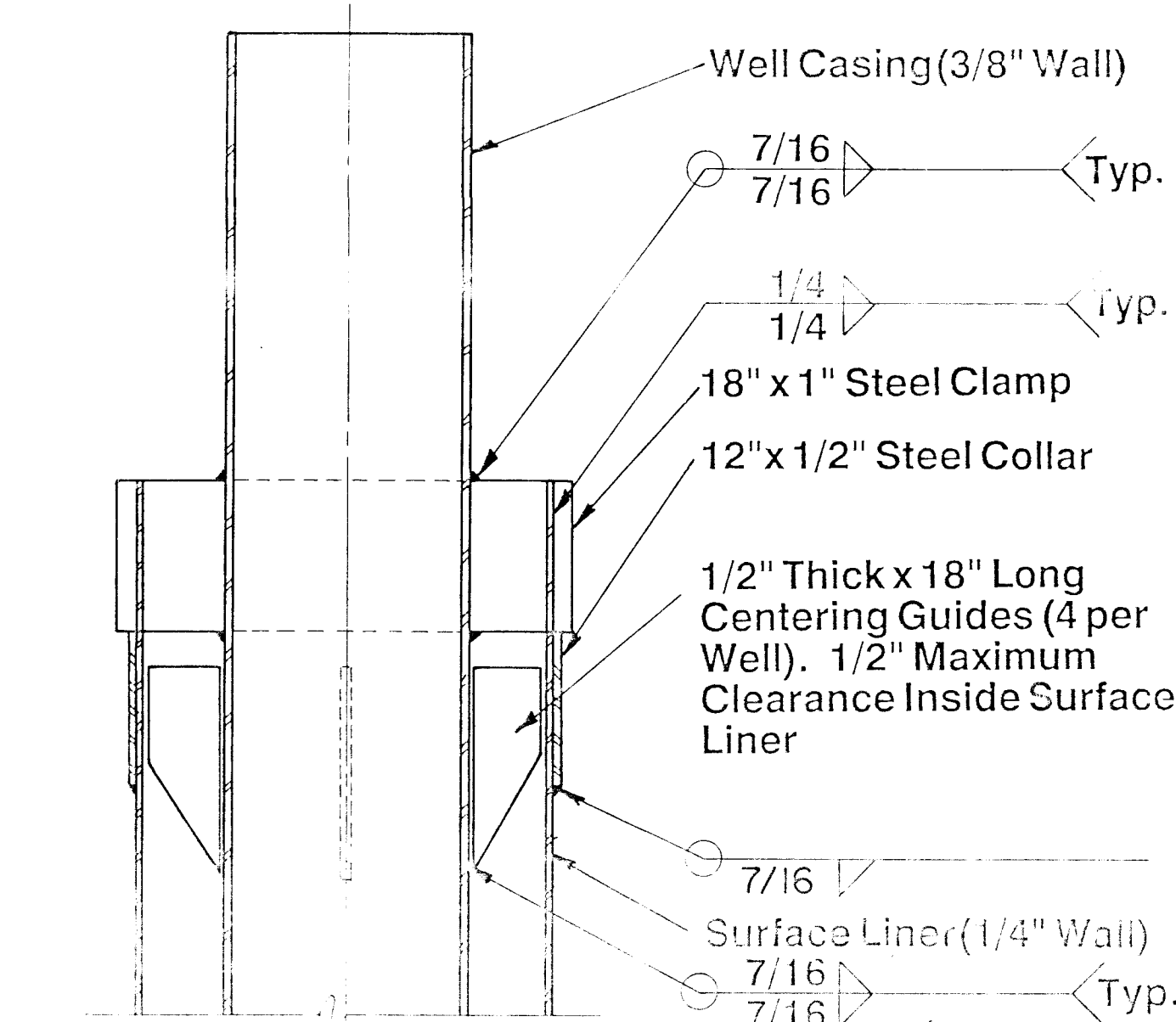
WELL DETAIL

NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1984.



CENTERING GUIDE DETAIL

NOTE: Maximum Spacing for Centering Guides 100 Feet on Casing and Screen.



SURFACE CENTERING GUIDE DETAIL

WELL DIMENSION TABLE						
DIMENSION (INCHES)	A	B	C	D	E	F
BASE BID	22	38	30	18	18	30
ADDITIVE NO. 1	34	40	32	20	18	30

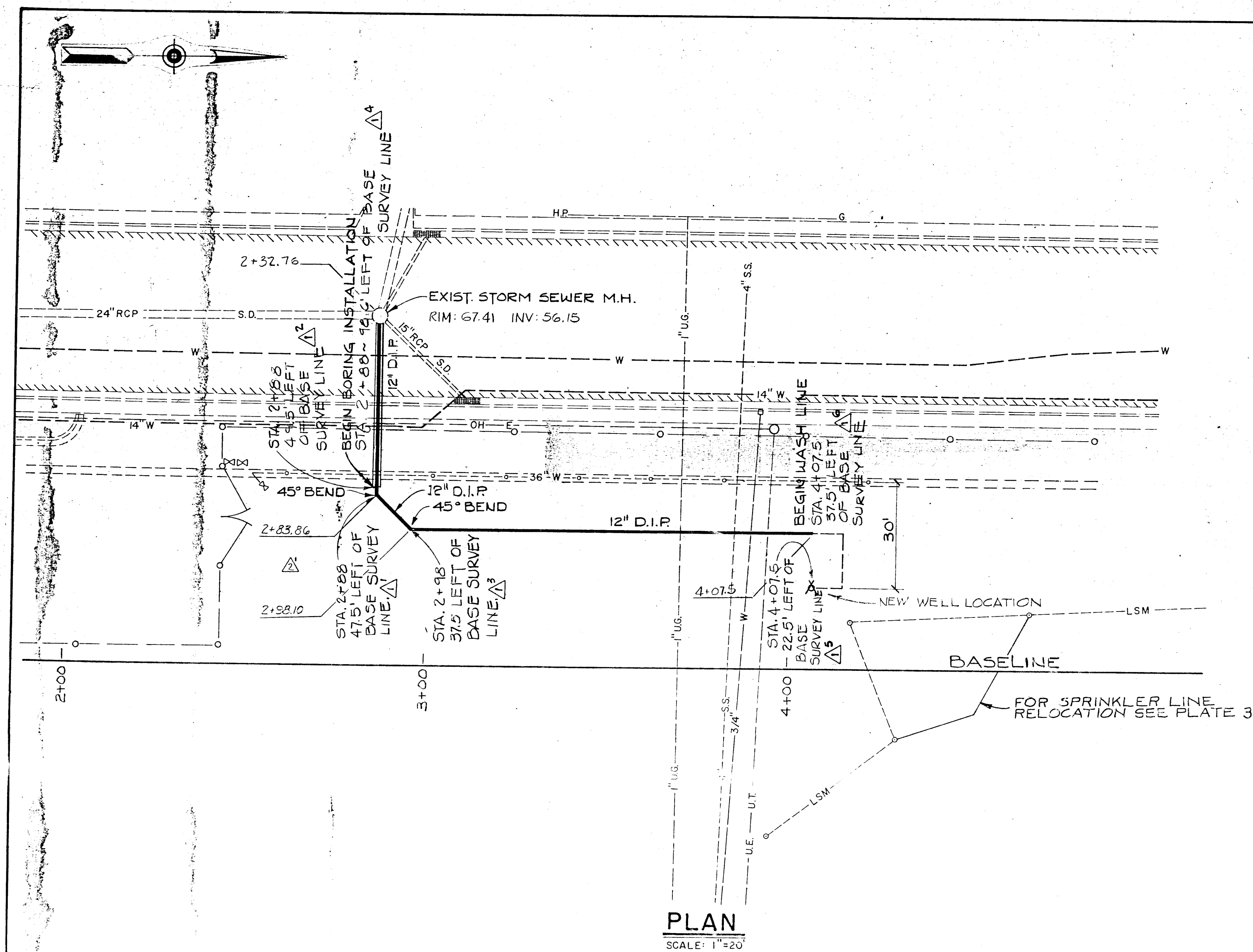
ADDITIVE NO. 1 INITIATED

WILLIAM MATOTAN & ASSOCIATES, INC. ENGINEERS 1000 10TH AVENUE, SUITE 100 ALBUQUERQUE, NEW MEXICO 87102 (505) 265-8467		U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO	
DESIGNED BY LDR	SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO		
CHECKED BY RKA	BURTON WELL NO. 4		
DATE LDV	WELL DETAILS		
DATE: OCTOBER 1986		DACW 47-87-B-0001 FILE NUMBER	
4,2		PLATE	

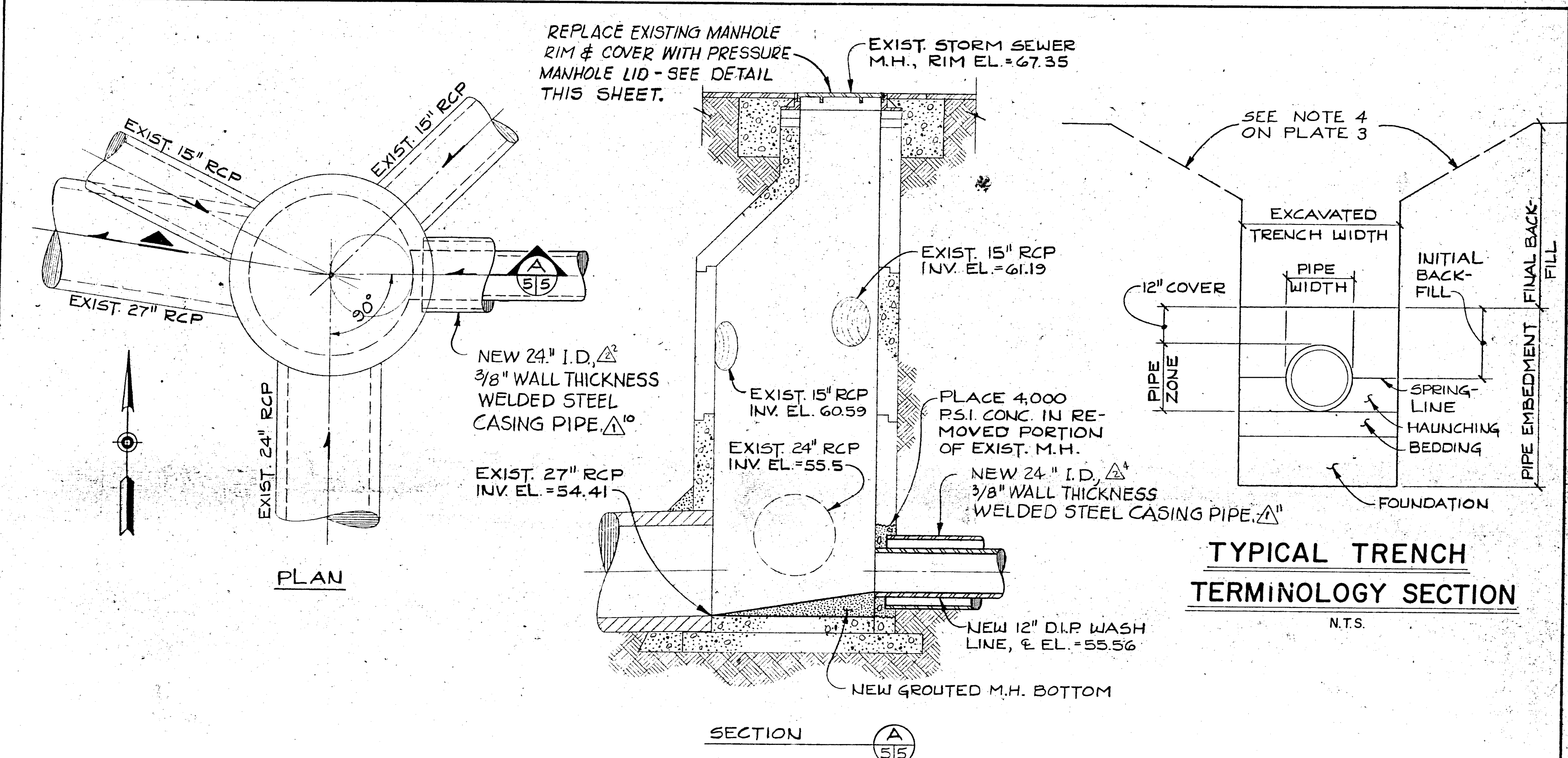
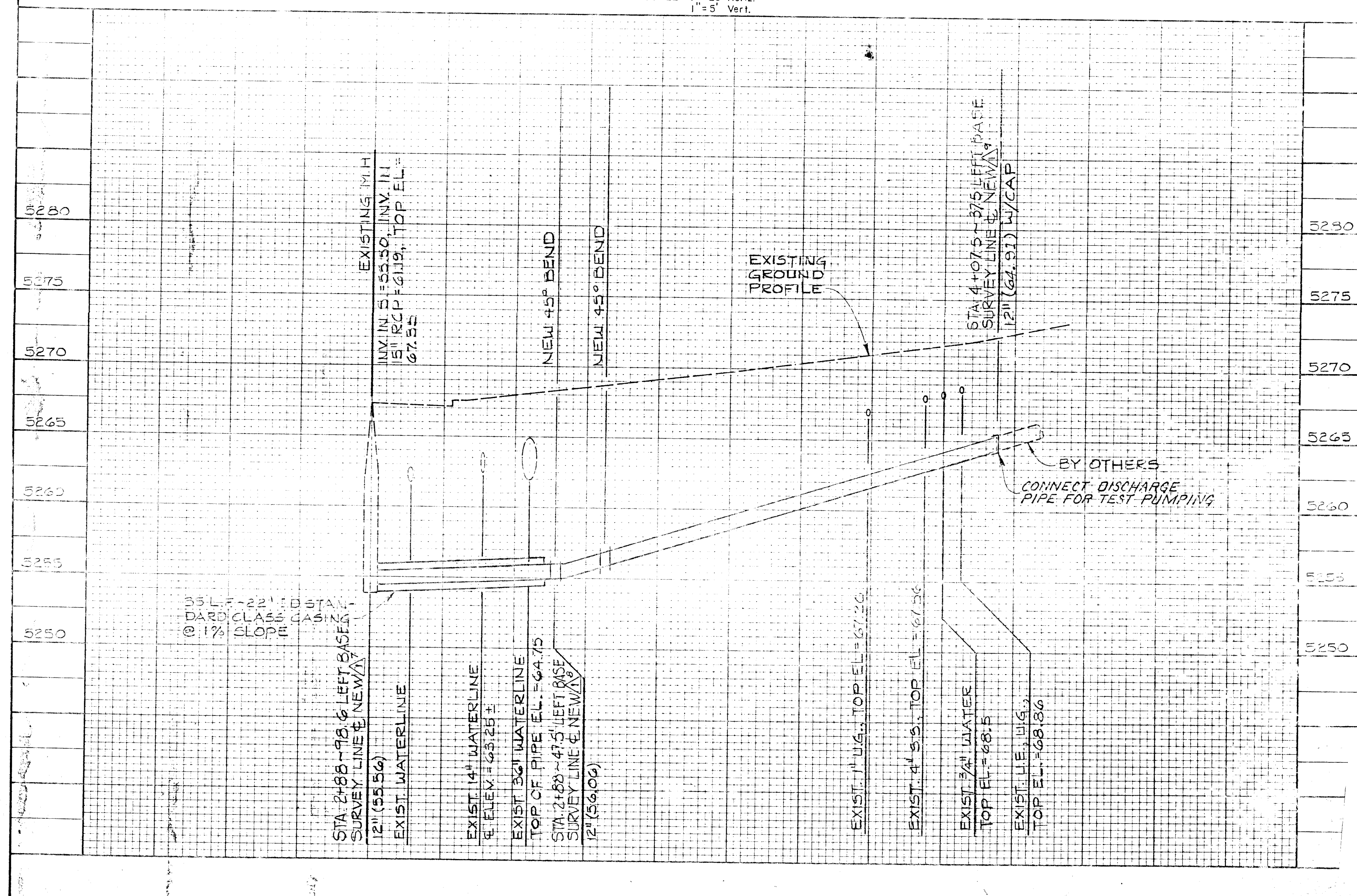
VALUE ENGINEERING PROPOSALS MEAN HIGHER PROFITS

DRAWING OF WORK AS BUILT

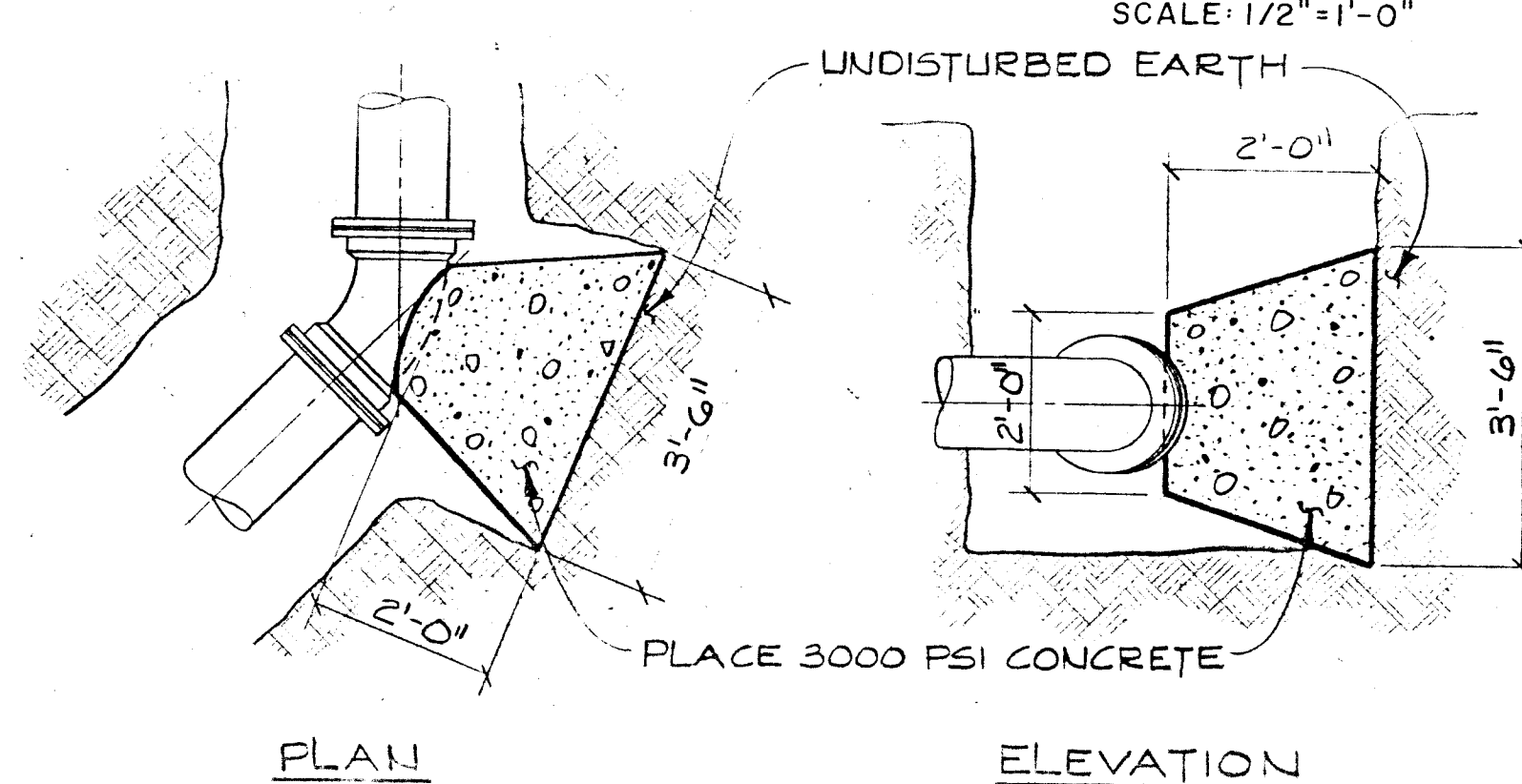
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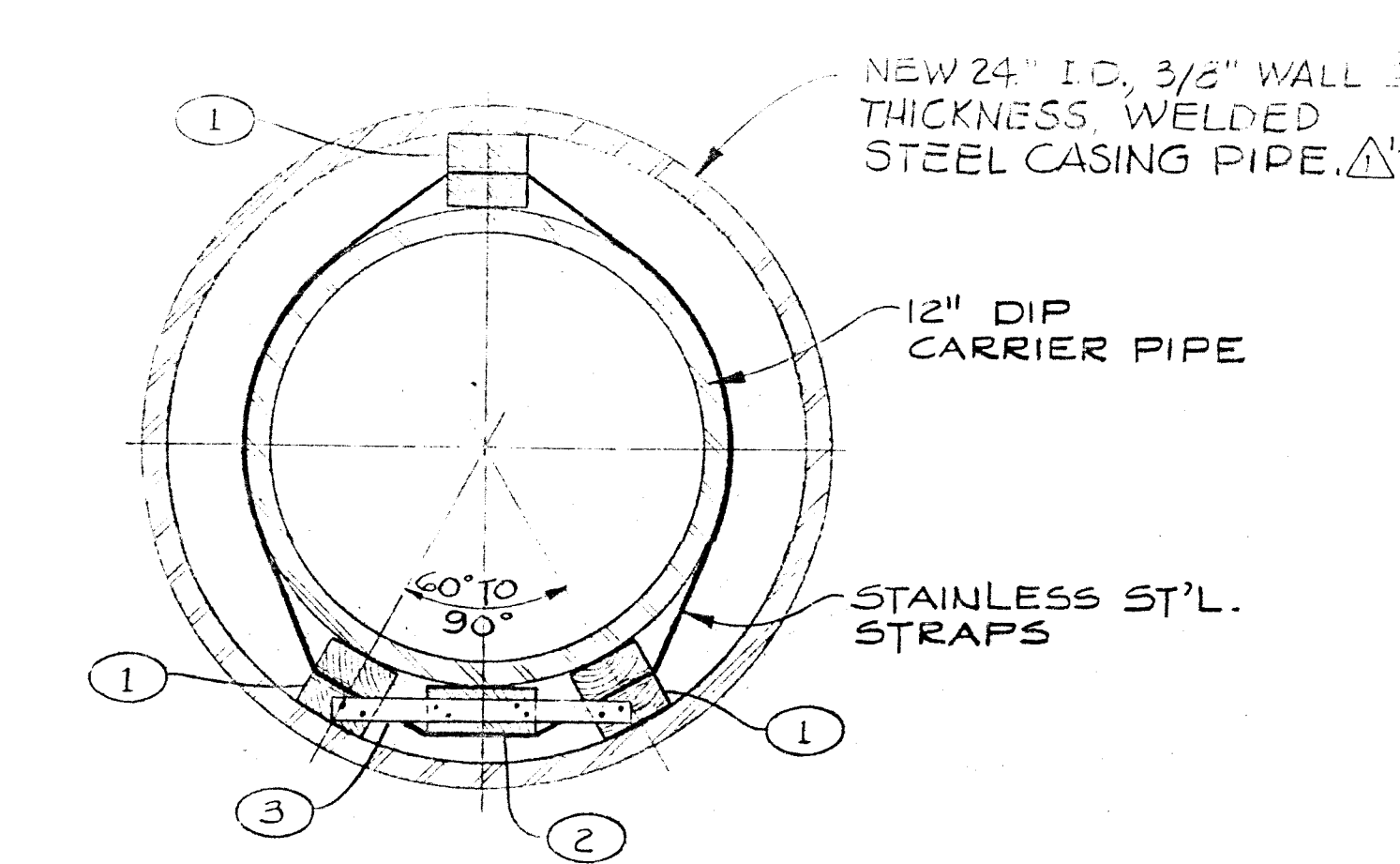
PROFILE
SCALE: 1"=20' Horiz.
1"=5' Vert.



EXISTING STORM SEWER MANHOLE DETAILS
SCALE: 1/2"=1'-0"

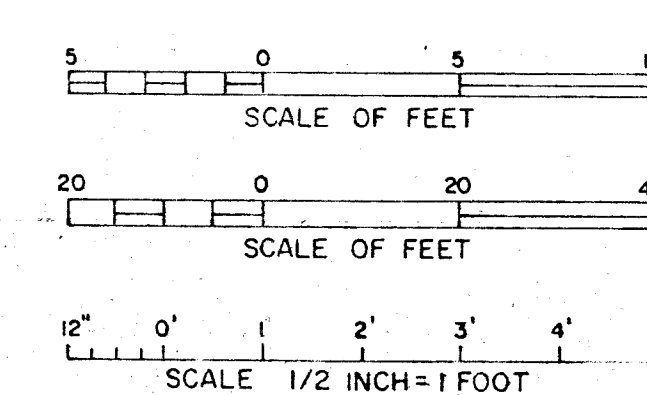


THRUST BLOCK DETAILS
SCALE: 1/2"=1'-0"

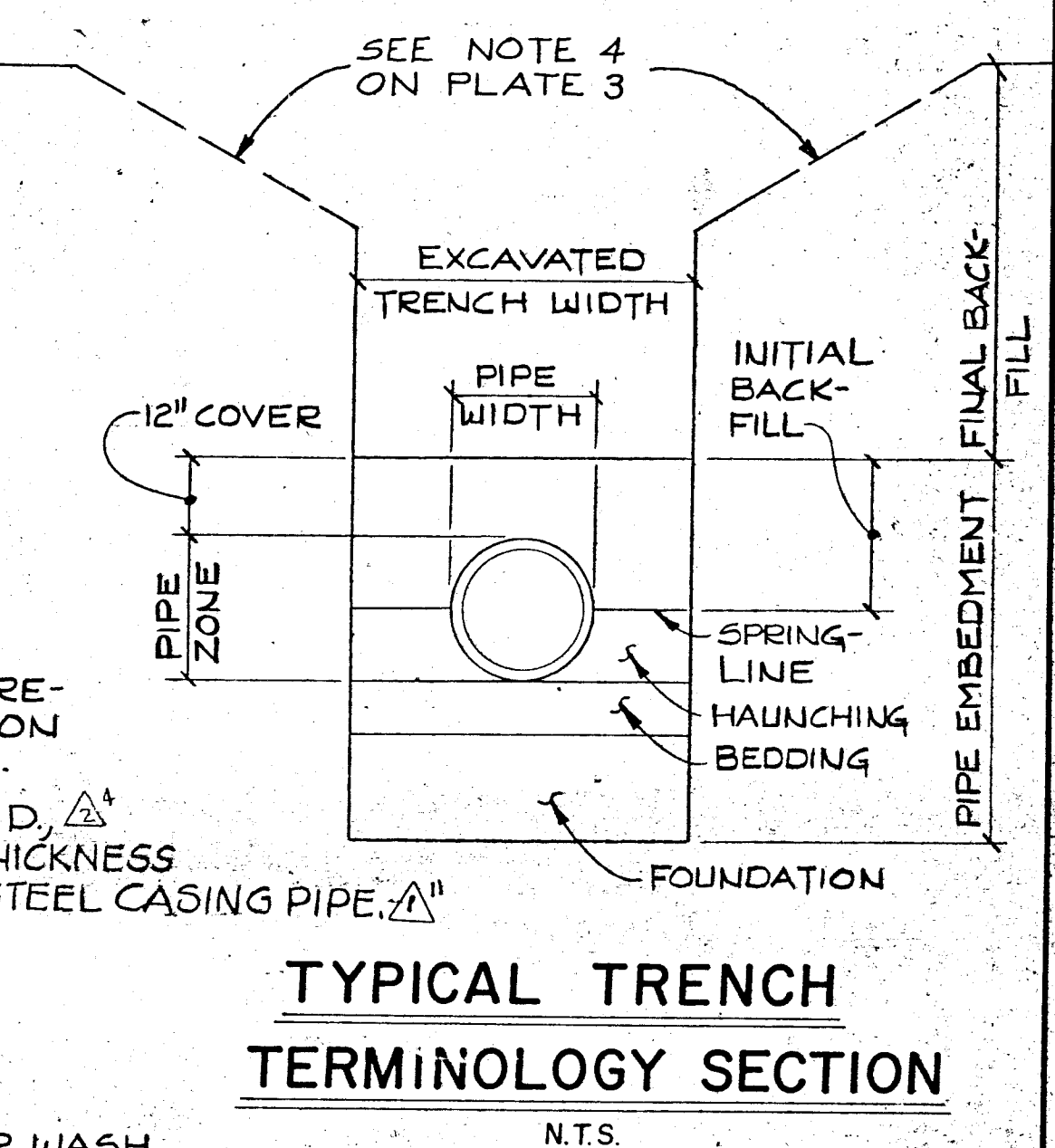
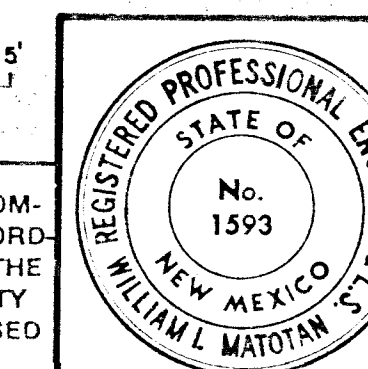


1. 3'x3'x15' REDWOOD OR CEDAR SKID BLOCKS, TREATED W/ PENTACHLOROPHENOL, TO BE PLACED AT EA. END OF PIPE SECTIONS & SPACED AROUND PIPE AS SHOWN. BLOCKS ARE STRAPPED TOGETHER W/ STAINLESS ST'L STRAPS. STRAPS WILL PASS THROUGH BLOCKS.
2. 2'x 1/2" BLOCK, TREATED REDWOOD OR CEDAR.
3. 1" CLEW, TREATED REDWOOD OR CEDAR.

WATER BORING INSTALLATION DETAIL
N.T.S.

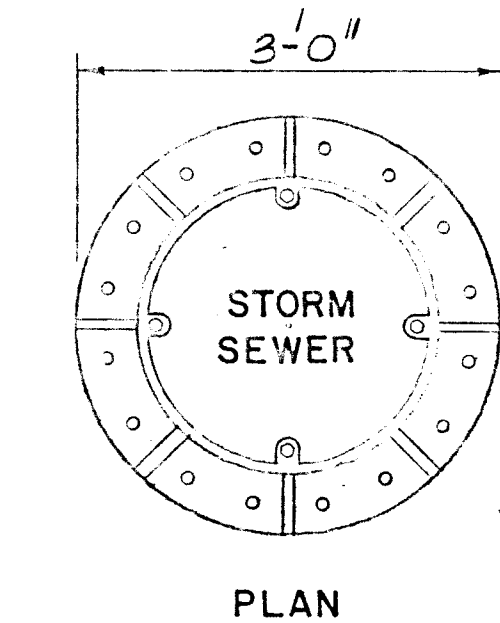


NOTE: ALL OPERATIONS PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE CORPS OF ENGINEERS PUBLICATIONS: "SAFETY AND HEALTH REQUIREMENTS MANUAL", REVISED OCTOBER, 1984.

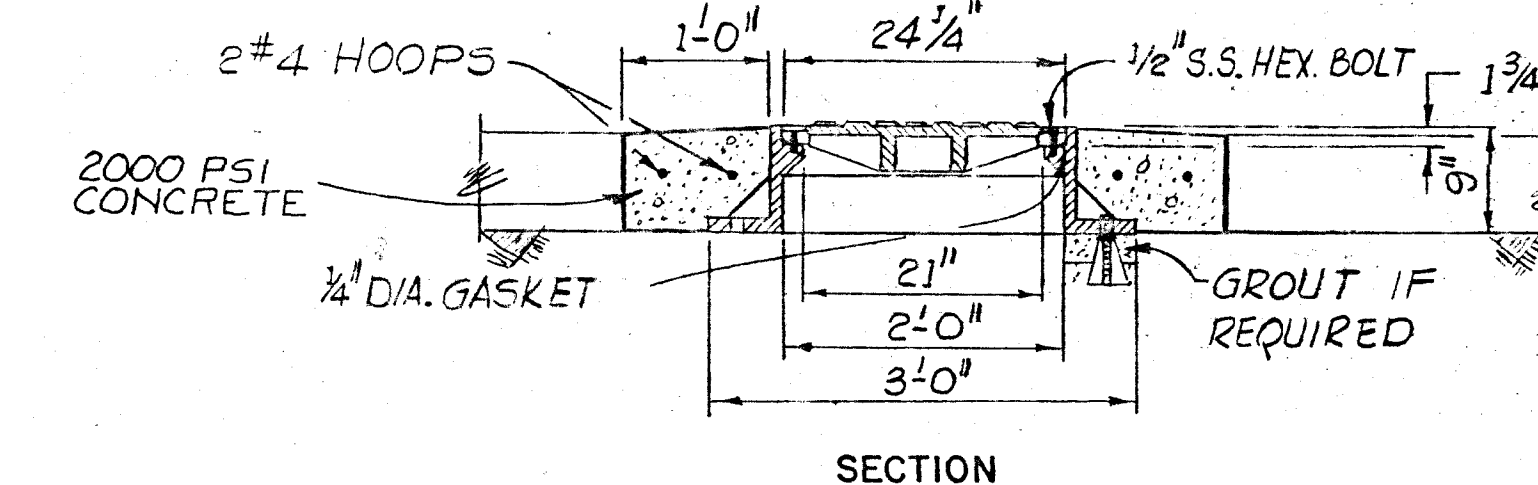


TYPICAL TRENCH TERMINOLOGY SECTION
N.T.S.

- NOTES:**
- 1) CONTRACTOR TO FIELD VERIFY HORIZONTAL & VERTICAL ALIGNMENT OF ALL UTILITIES CROSSING THE 12" D.I.P. PRIOR TO INSTALLATION.
 - 2) STORM DRAINAGE TO BE MAINTAINED THROUGH THE EXISTING MANHOLE AT STA. 2+88-98.6' LEFT OF BASE SURVEY LINE. Δ^{12}



NOTE: ANCHOR BOLTS (6 REQUIRED) SHALL HAVE LEVELING NUTS TOP AND BOTTOM.



PRESSURE MANHOLE LID DETAIL
N.T.S.

DESIGNED BY	WILLIAM J. MATOTIAN & ASSOCIATES, INC. ENGINEERS 230 TRUMAN, N.E. ALBUQUERQUE, NM 87108 (505) 265-8467	U.S. ARMY ENGINEER DISTRICT, ALBUQUERQUE CORPS OF ENGINEERS ALBUQUERQUE, NEW MEXICO
DRAWN BY	L.D.V.	
CHECKED BY	J.N.M.	
DATE	OCTOBER 1986	
PROJECT	SOUTH VALLEY EPA SUPERFUND REMEDIAL ACTION WELL ALBUQUERQUE, NEW MEXICO	
WELL	BURTON WELL NO. 4	
WASH LINE	PLAN & PROFILE AND DETAILS	
DRAWING NO.	DACW 47-87-B-0001	PLATE
FILE NUMBER		52

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