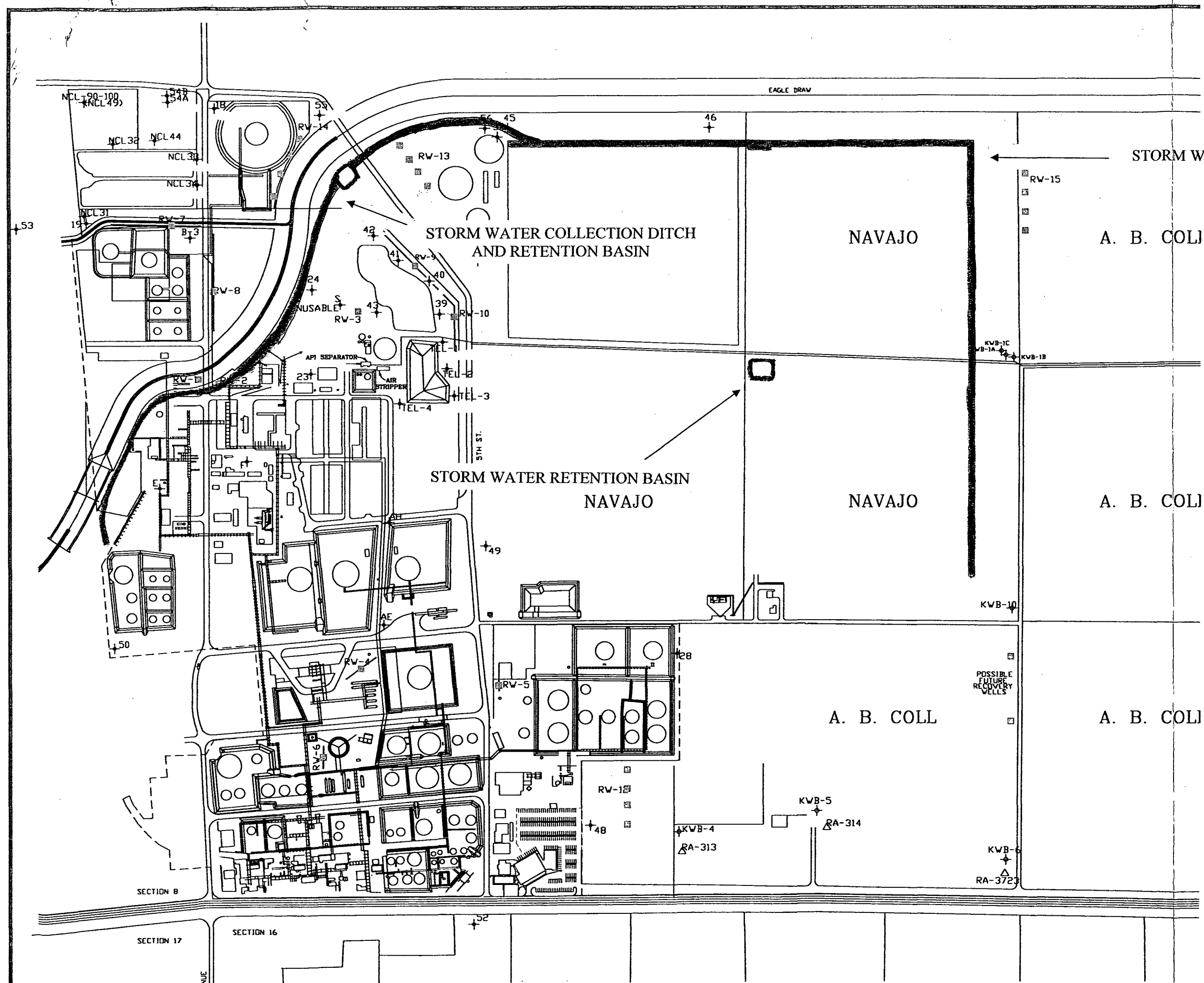


GW - 28

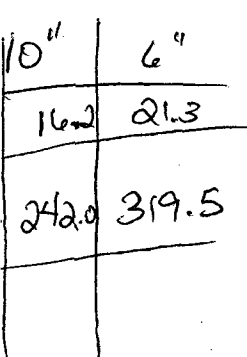
REPORTS

YEAR(S):

2002-2000



NAVAJO REFINING
Artesia, New Mexico
STORM WATER CONTROL
AND RETENTION





P.O. Box 390
Artesia, NM 88211-0390
Office # (505) 748-2142
Fax # (505) 748-2142
NM License # 81259

Navajo Refining Co.
P.O. Box 159
Artesia, NM 88211-0159
Attn: Daryl Moore

May 2, 2000

Dear Mr. Moore

Attached please find the results of your Annual Sump Testing per the list provided by the maintenance department.

Thank you,

A handwritten signature in black ink, appearing to read 'Thomas N. Giles', is written over the printed name.

Thomas N. Giles
Giles Incorporated
NM #81259

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: UNLOADING RACK SOUTH OF 400 TK

STATUS: CLEANED-OUT / LINES ISOLATED

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-12-00

START TIME: 4:00 P.M.

FINISH TIME: 7:30 AM

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: SOUTH PLANT TOOL ROOM

STATUS: CLEANED - OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-13-00

START TIME: 8:50 A.M.

FINISH TIME: 1:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NORTH PLANT TOOL ROOM

STATUS: CLEANED OUT / FILLED COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-13-00

START TIME: 11:00 A.M.

FINISH TIME: 3:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: SOUTH EAST CORNER @ PUMPS IN #2 YARD

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1/13/00

START TIME: 11:45 A.M.

FINISH TIME: 3:45 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: CHEMICAL PAD NORTH OF #2 YARD

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO JOINTS, CRACKS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1/14/00

START TIME: 8:00 A.M.

FINISH TIME: 12:10 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NORTH WEST CORNER OF MAIN WAREHOUSE

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: —

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-19-00

START TIME: 9:00 A.M.

FINISH TIME: 1:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: (2) SUMPS @ EAST SIDE MECHANIC SHOP

STATUS: CLEANED - OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: TRENCH IS SEVERELY CRACKED w/ REINFORCING
EXPOSED. SUMPS HAVE NO CRACKS, JOINTS, FLAWS.

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-18-00

START TIME: 1:00 P.M.

FINISH TIME: 7:15 A.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS @ SUMPS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: FUEL CONTAINMENTS - INTER PLANT

STATUS: CLEANED - OUT / FILLED w/ WATER

VISUAL INSPECTION: RANGE FROM FIBERGLASS TO 55 GALLON DRUMS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: _____

START TIME: _____

FINISH TIME: _____

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: LAB

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: APPEARS TO BE AN UNDERGROUND
STORAGE TANK (CARBON STEEL)

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 2-2-00

START TIME: 11:00 A.M.

FINISH TIME: 3:30 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: SLURRY SAMPLE BLDG.

STATUS:

VISUAL INSPECTION:

NOT A

INSPECTED BY:

SUMP !

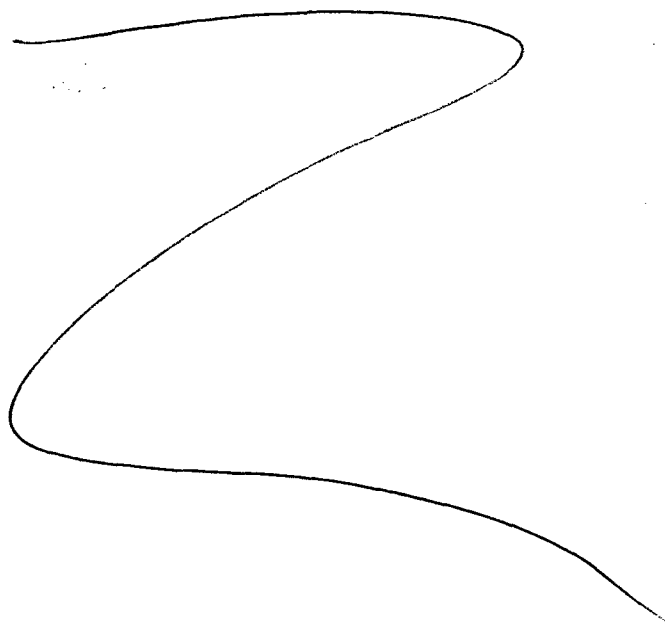
DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:



GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: Sumps & SLINGERS

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

NOT TESTED DUE TO
ONGOING PROJECTS & SLINGERS
BY MAINT.

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: *SOUTHWEST CORNER of 835 Tank*

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

*NOT TESTED PER
BRIAN MADRIZ*

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: 838 TANK

STATUS:

VISUAL INSPECTION:

INSPECTED BY:

DATE OF TEST:

START TIME:

FINISH TIME:

TESTED BY:

RESULTS:

NOT TESTED

PER BRIAN MADRID

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: CBO RACK (SOUTH)

STATUS: CLEANED - OUT / LINES ISOLATED / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS / FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-26-00

START TIME: 7:00 A.M.

FINISH TIME: 1:15 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS.

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: CBO RACK (NORTH)

STATUS: CLEANED OUT / LINES ISOLATED / COMPLETELY FULL OF
WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-26-00

START TIME: 8:05 A.M.

FINISH TIME: 2:12 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: NEW ASPHALT RACK - 433 TANK

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-21-00

START TIME: 12:00 P.M.

FINISH TIME: 4:00 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO-LEAKS

GILES INCORPORATED

**ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT**

SUMP LOCATION: ASPHALT LOADING RACK WEST OF LAB

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, JOINTS, FLAWS.

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 2-1-00

START TIME: 4:00 P.M.

FINISH TIME: 7:15 A.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: NO-LEAKS

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: NORTH OF I & E SHOP

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: NO CRACKS, NON-MONOLITHIC POOL
BETWEEN FLOOR AND WALLS

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-19-00

START TIME: 4:00 P.M.

FINISH TIME: 7:08 A.M. (1-20-00)

TESTED BY: THOMAS SIDNEY GILES

RESULTS: WATER LEVEL DROPPED 6" OVERNIGHT,
NEEDS NEW CONCRETE LINER.

LEAKED.

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: 835 TANK

STATUS: CLEANED-OUT / COMPLETELY FULL OF WATER

VISUAL INSPECTION: LARGE VERTICAL CRACKS ON
WALLS (LARGER THAN $\frac{1}{4}$ ")

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-20-00

START TIME: 10:30 A.M.

FINISH TIME: 2:40 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS:

LEAKS!

GILES INCORPORATED

ANNUAL SUMP INSPECTION
NAVAJO REFINING CO.
ARTESIA PLANT

SUMP LOCATION: 415 TANK

STATUS: CLEANED OUT / COMPLETELY FULL OF WATER / LINES ISOLATED

VISUAL INSPECTION: LARGE CRACKS IN TOP HALF OF ALL 4 WALLS
REINFORCING BARS ARE EXPOSED AND RUSTED OUT.

INSPECTED BY: THOMAS SIDNEY GILES

DATE OF TEST: 1-26-00

START TIME: 9:15 A.M.

FINISH TIME: 1:30 P.M.

TESTED BY: THOMAS SIDNEY GILES

RESULTS: LEAKS

OCD FILES

35MM DRAWINGS

610.58

FILE NUMBER

Reports

DOCUMENT TYPE

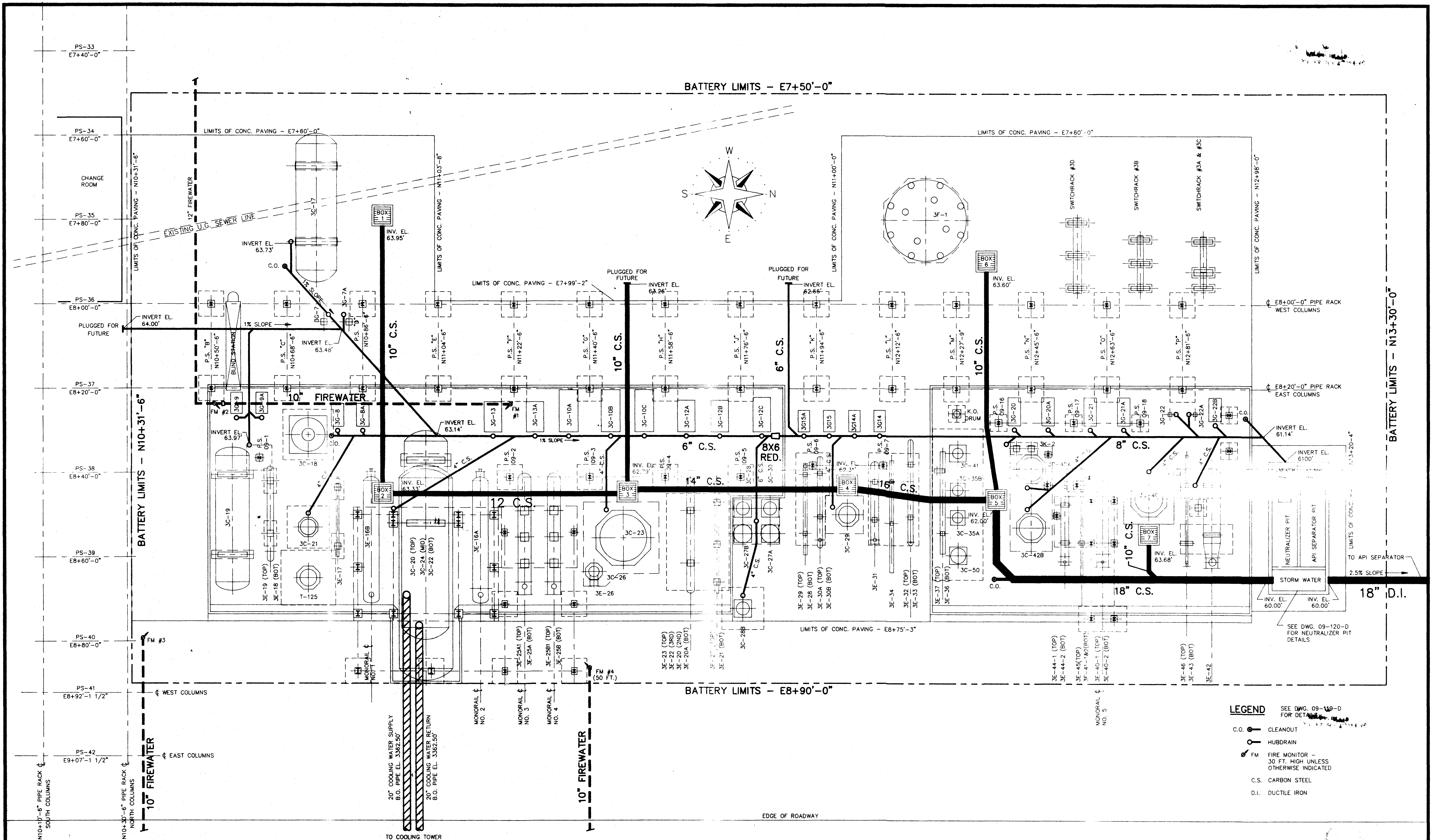
2002 - 2000

20

NO OF DWGS

63

BOX



NOTES

- DOPE AND WRAP ALL UNDERGROUND PIPING.
- ELEVATIONS ARE BASED ON 3300.00' (+)
(I.E. 66.00' EQUALS 3366.00')
- HIGH POINT ELEVATION IS 3366.00'.

REFERENCE DRAWINGS

09-Z-100-D	DRAWING LIST AND SCHEDULES
09-Z-101-D	EQUIPMENT SITE PLAN
09-Z-102-D	FOUNDATION PLAN (4 SHEETS)
09-119-D	MISCELLANEOUS CIVIL DETAILS

NO.				REVISIONS				BY				CHK.				DATE				APPR.				APPR.			
A				ISSUED FOR REVIEW				MM				MM				3/91											
O				ISSUED FOR CONSTRUCTION				MM				MM															

DRAWING TITLE

**H.F. ALKYLATION UNIT
RELOCATION**

**UNDERGROUND UTILITY
SITE PLAN**

LEGEND

- C.O. CLEANOUT
- HUBDRAIN
- FM FIRE MONITOR - 30 FT. HIGH UNLESS OTHERWISE INDICATED
- C.S. CARBON STEEL
- D.I. DUCTILE IRON

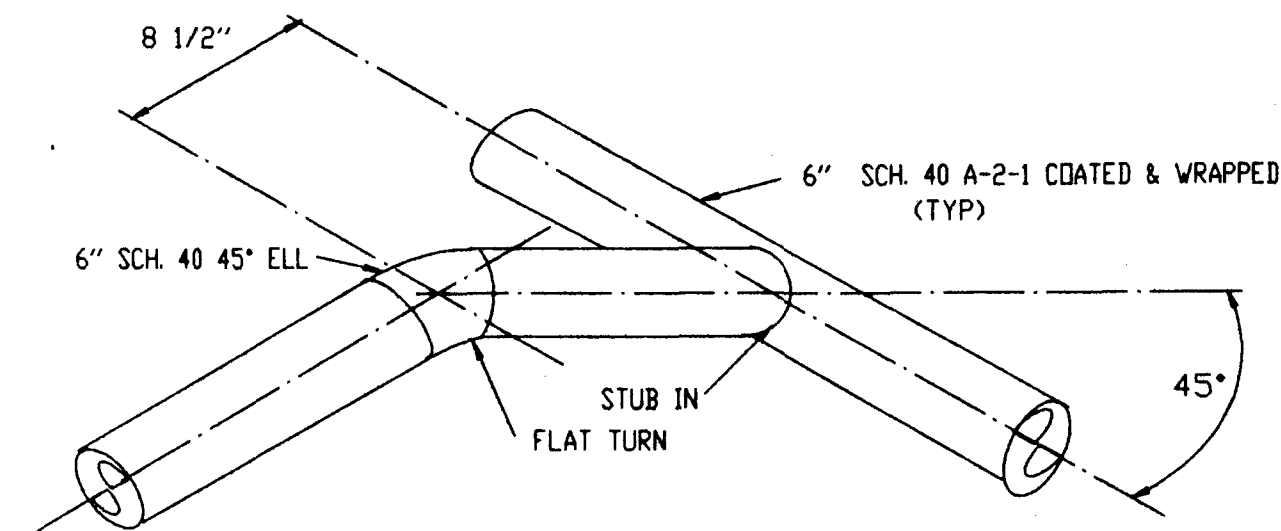
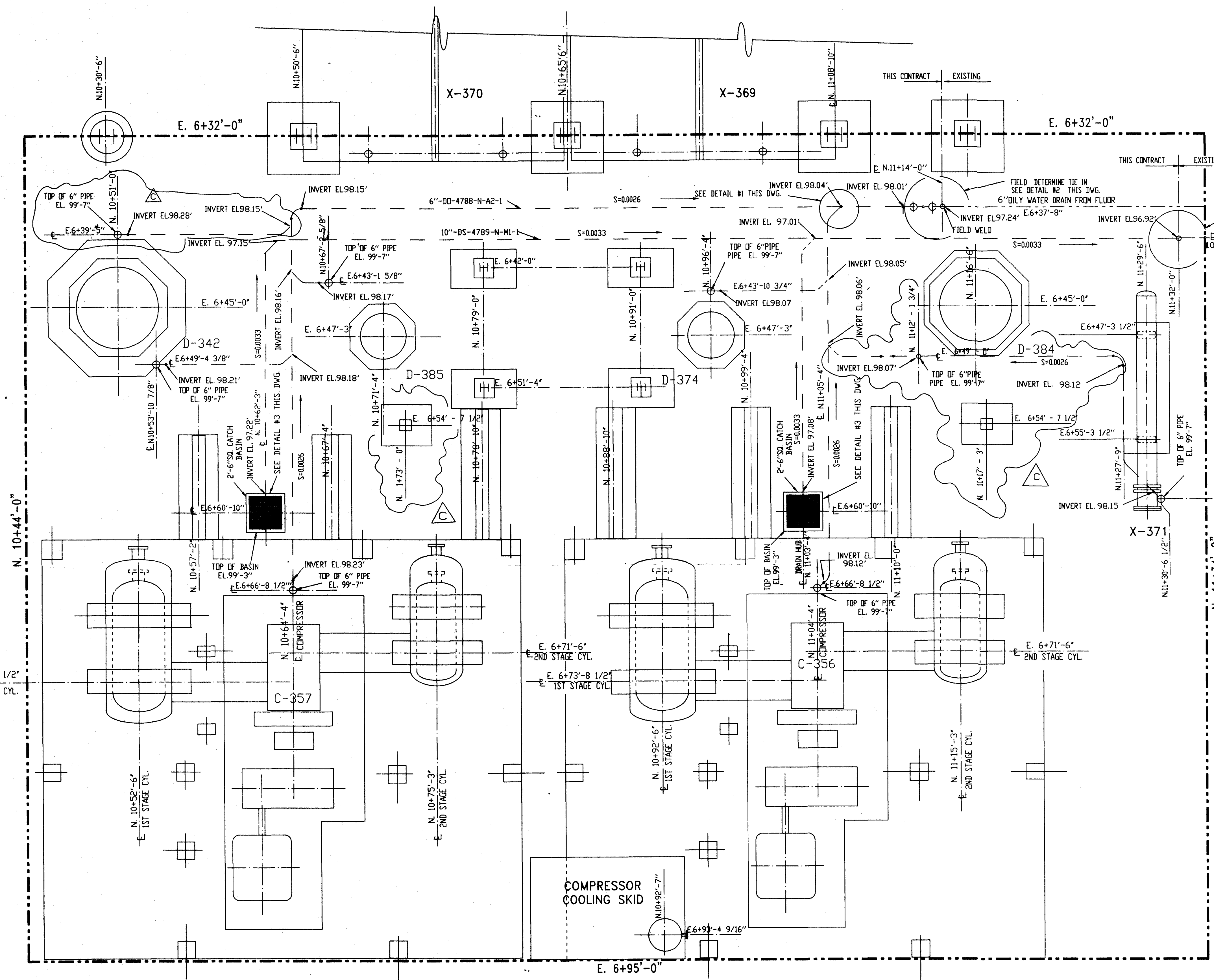
SEE DWG. 09-119-D FOR DETAILS

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

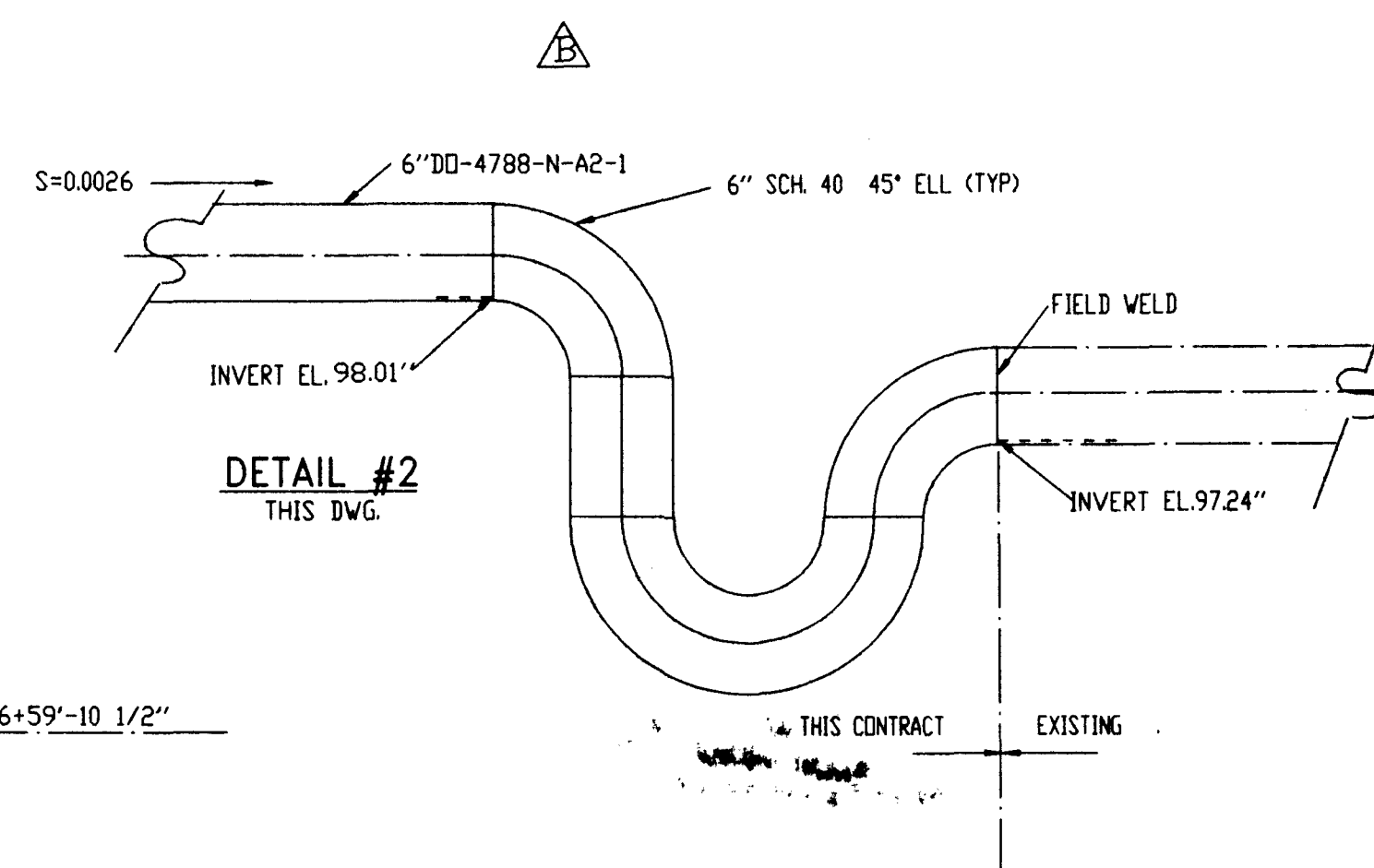
DRAWN BY ROCHA	CHK'D BY MOSES	SCALE 1" = 10'-0"
DATE 01/17/91	APPR BY	DRAWING NUMBER 09-Z-103-D
		REV. 0



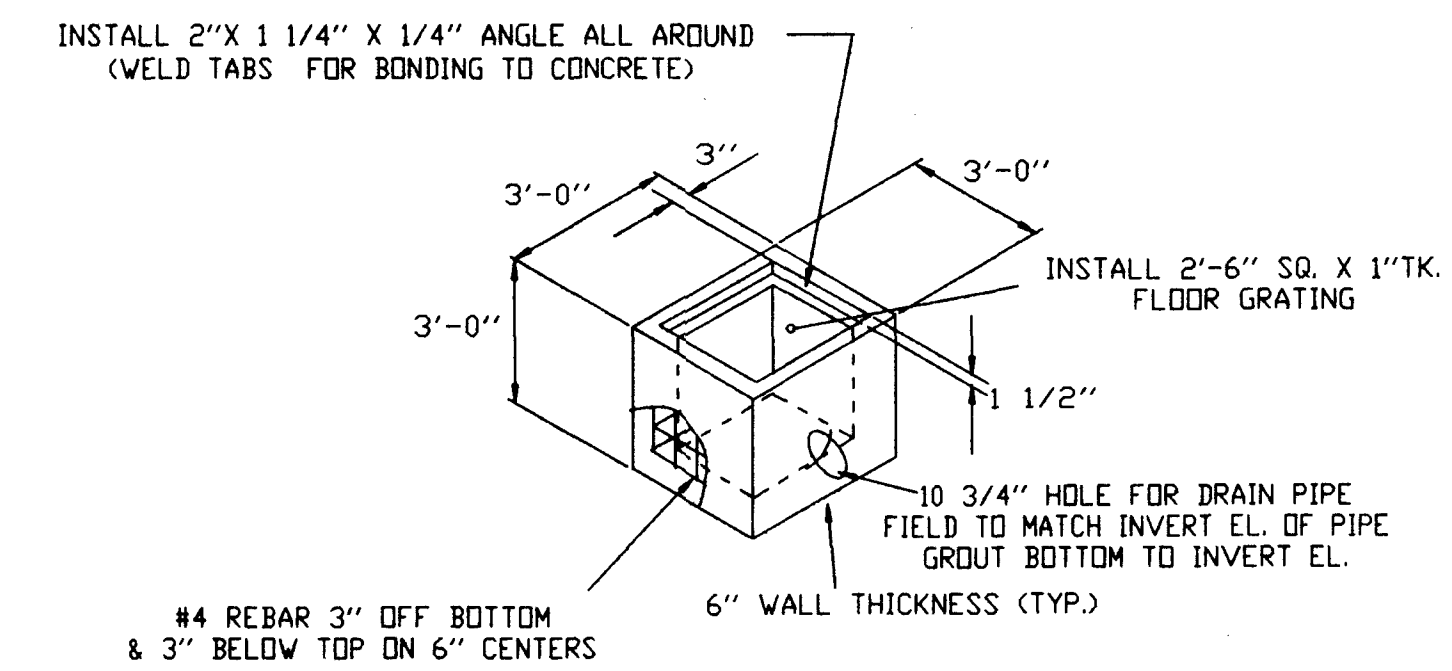
DRAWN BY GA	CHK'D BY STM	SCALE AS NOTED	
DATE 2/18/87	DATE 2/18/87	DRAWING NO. 80-1-D-1	REV. 2



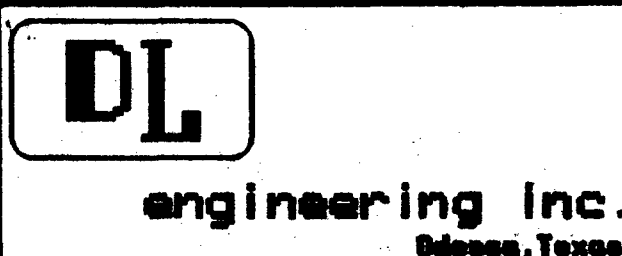
DETAIL #1
THIS DWG.
(TYP. FOR S)
NOTE: ALL 6" PIPE TURNS SIMILAR.



DETAIL #2
THIS DWG.



DETAIL #3
THIS DWG.

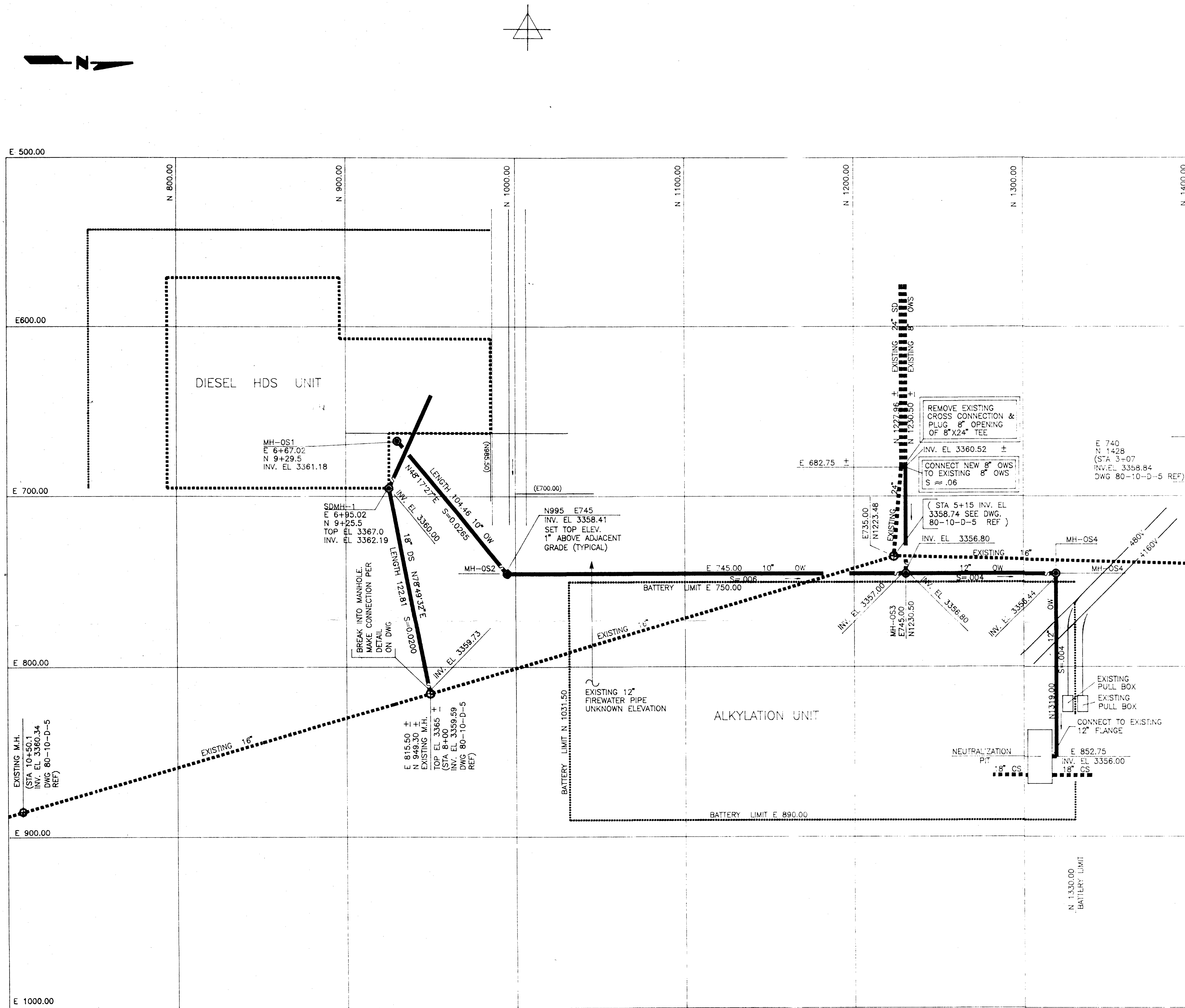


NOTES		REFERENCE DRAWINGS		NO.		DATE	BY	REVISION	APR	W.D. NUMBER	1140
1. DILLY WATER DRAIN TO BE SCH. 40 SPEC-A-2-1 COATED AND WRAPPED.		70-2-01-D-1		A		1/11/91	DrH	ISSUED FOR BID	SCALE 1/4" = 1'-0"		
2. STORM SYSTEM DRAIN TO BE SPEC. MI-1		70-38-D		B		1/11-91	DrH	ADDED PEA TRAP	ENG. RECORD		DATE
		70-39-D		C		1/31/91	SM	ADDED PIPE PIERS PP70 - 7 & 8 AND MISC.	DRAWN BY		DrH 1-7-91
									CHECKED BY		
									APPD. BY		
									DRAWING NO.		70-04-D
									C		REVISION NO.

REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

NET GAS AREA
UNDER GROUND PIPING PLAN

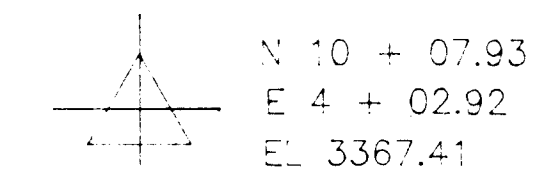
DRAWING NO. 70-04-D
C
REVISION NO.



GENERAL NOTES:

- ALL PIPING LOCATED BY CONSTRUCTION MUST BE DOCUMENTED BY "AS-BUILT" DRAWINGS.
- WHERE DRAIN OR SEWER LINE SLOPE IS NOT INDICATED ON THIS PLAN, INSTALL THE LINE AT A UNIFORM SLOPE BETWEEN THE SPECIFIED INVERTS.
- SEWER AND DRAIN SYSTEM SHALL BE TESTED IN CONFORMANCE WITH SPECIFICATION LATER.
- ALL KNOWN UNDERGROUND FACILITIES ALONG THE SEWER ROUTING THAT MAY INTERFERE WITH THE NEW SEWER LINES HAVE BEEN SHOWN. THESE WERE OBTAINED FROM EXISTING DRAWINGS AND/OR SURVEYS AND FIELD CHECKS.
IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THIS INFORMATION AND LOCATE ANY OTHER INTERFERENCES NOT SHOWN ON THIS DRAWING. PROBLEMATIC INTERFERENCES SHALL BE SOLVED DURING CONSTRUCTION.
- ALL NEW AND MODIFIED MANHOLES ARE TO BE PROVIDED WITH ONE 4" VENT EACH, TO BE FIELD ROUTED IN ACCORDANCE WITH NAVAJO SPECIFICATIONS, ATTACHMENT "J" PARAGRAPH 10.2.

EXISTING BEACH MARK



PLANT SURVEY MONUMENTS

EXISTING BENCHMARKS

- (a) N 10 + 07.93
E 4 + 02.92
EL 3367.41
(b) N 13 + 67.16
E 6 + 76.65
EL 3364.10

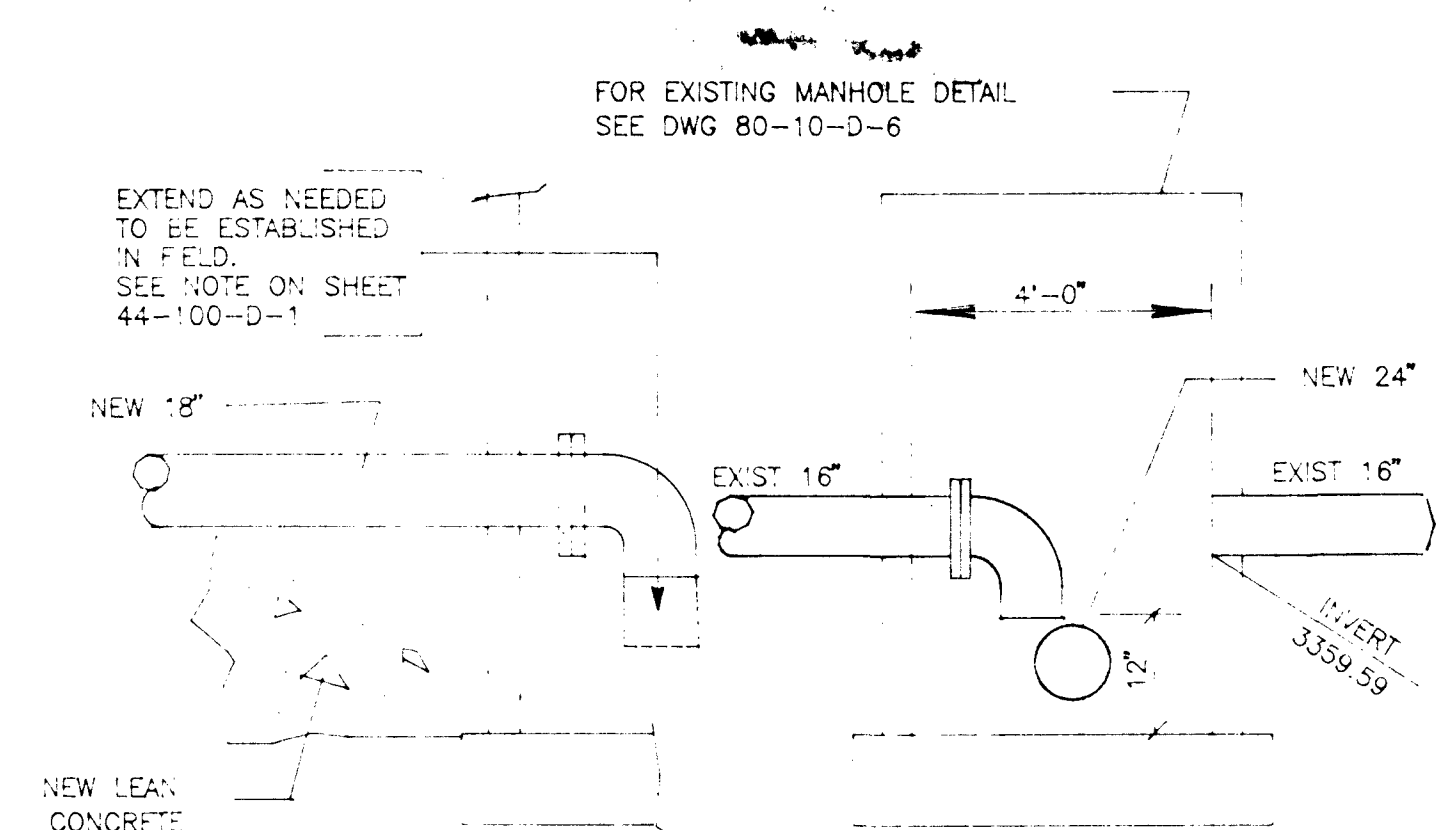
DIESEL HDS COORDINATES & ELEVATIONS

DIESEL HDS NORTH = PLANT NORTH - 665.5'
DIESEL HDS WEST = PLANT EAST - 990.02'
DIESEL HDS ELEV = PLANT ELEV - 3268.5'

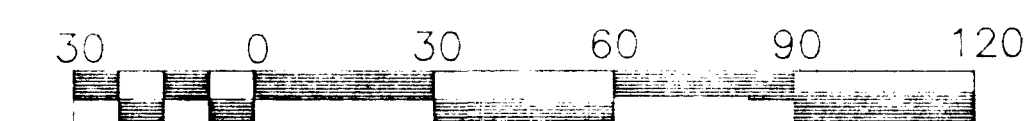
MATERIAL FOR SEWER SYSTEMS SHALL BE DUCTILE IRON PIPE WITH CLASS 350 FITTINGS, UNLESS OTHERWISE SPECIFIED.

LEGEND

- EXISTING MANHOLE
- NEW MANHOLE
- MANHOLE WITH SEAL



MODIFICATION OF EXISTING NAVAJO MANHOLE @ STA 8 + 00



SCALE IN FEET

NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	ISSUED FOR CONSTRUCTION	MEA	ESM	1/26/93									

DRAWING TITLE

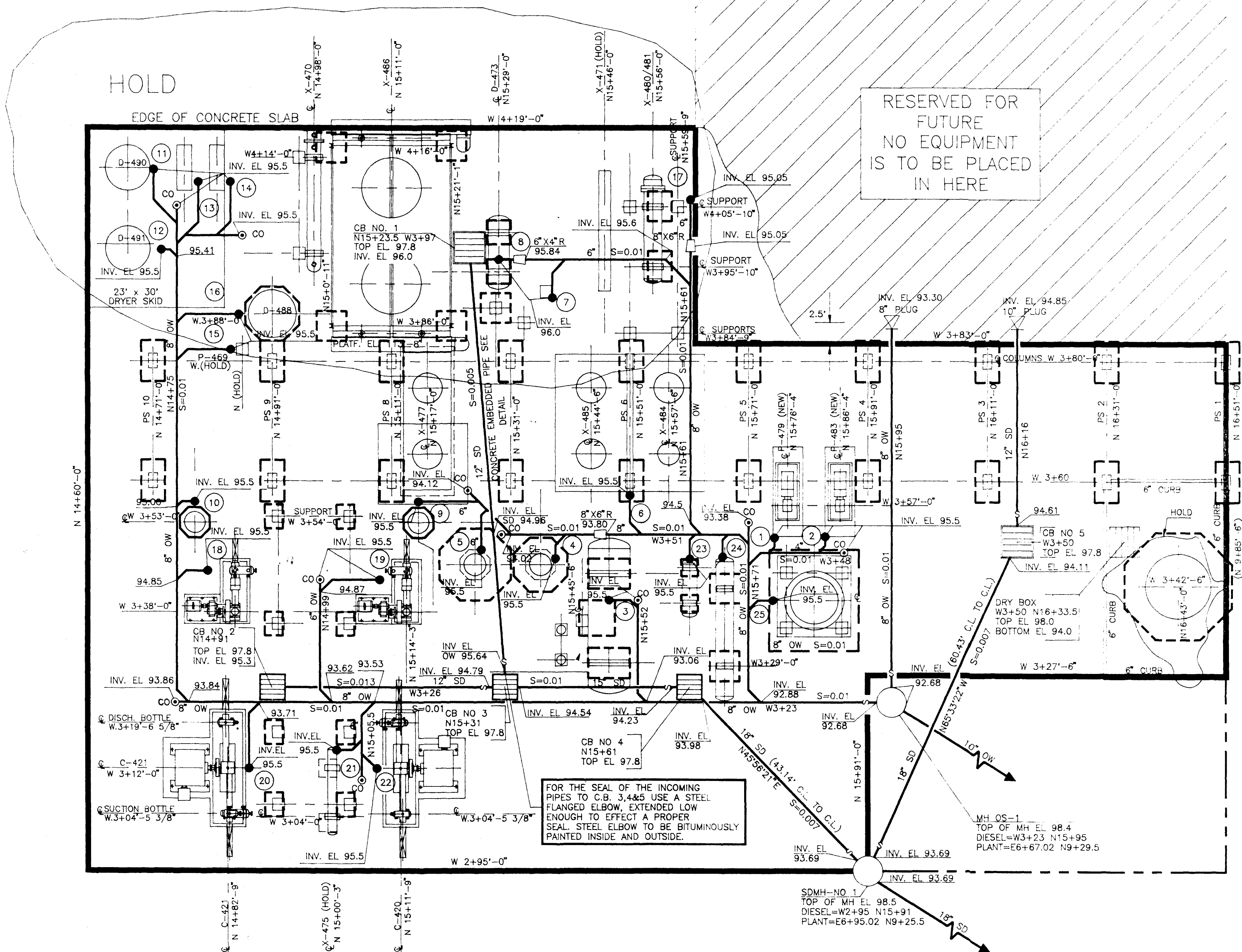
UNDERGROUND PIPING PLAN
OFFSITE
DIESEL HDS UNIT

		PROJECT NO. 92086-R	
		NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.O. DRAWER 159 ARTESIA, NEW MEXICO	
DRAWN BY JY	CHK'D BY ESM	SCALE 1" = 30'-0"	
DATE 10-21-92	APPR BY	DRAWING NUMBER 44-100-D-2	REV. 1

MAY 15 2002



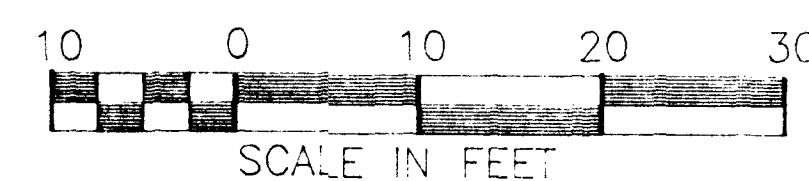
PLANT NORTH



RESERVED FOR
FUTURE
NO EQUIPMENT
IS TO BE PLACED
IN HERE

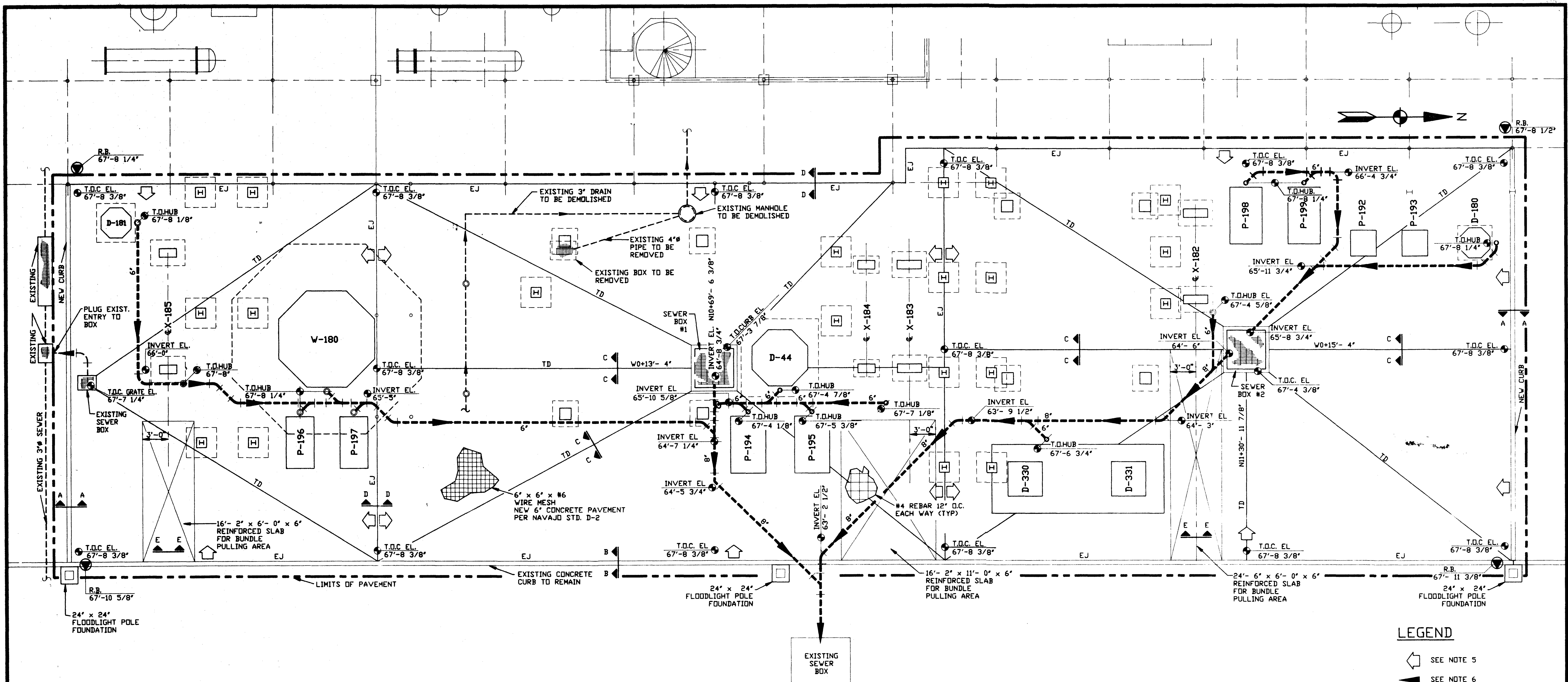
1. NOTES APPLY UNLESS OTHERWISE NOTED ON DRAWING.
2. WHERE PIPING IS NOT DIMENSIONALLY TIED DOWN OR LOCATED, CONSTRUCTION SHALL INSTALL THIS PIPING AS CLOSE AS PRACTICAL TO THE INDICATED ROUTING.
3. ALL PIPING LOCATED BY CONSTRUCTION MUST BE DOCUMENTED BY "AS-BUILT" DRAWINGS.
4. ALL DRAIN & SEWER PIPING ARE TO BE:
 - 2" & SMALLER - CAST IRON PIPE
 - 15" & LARGER - DUCTILE IRON PIPE

CO	CLEAN OUT
DB	DRY BOX
MH	MANHOLE
OW	OILY WATER SEWER
OWA	OILY WATER AREA DRAIN
SD	STORM SEWER
CB	CATCH BASIN
+	INLET SEAL

[illegible]

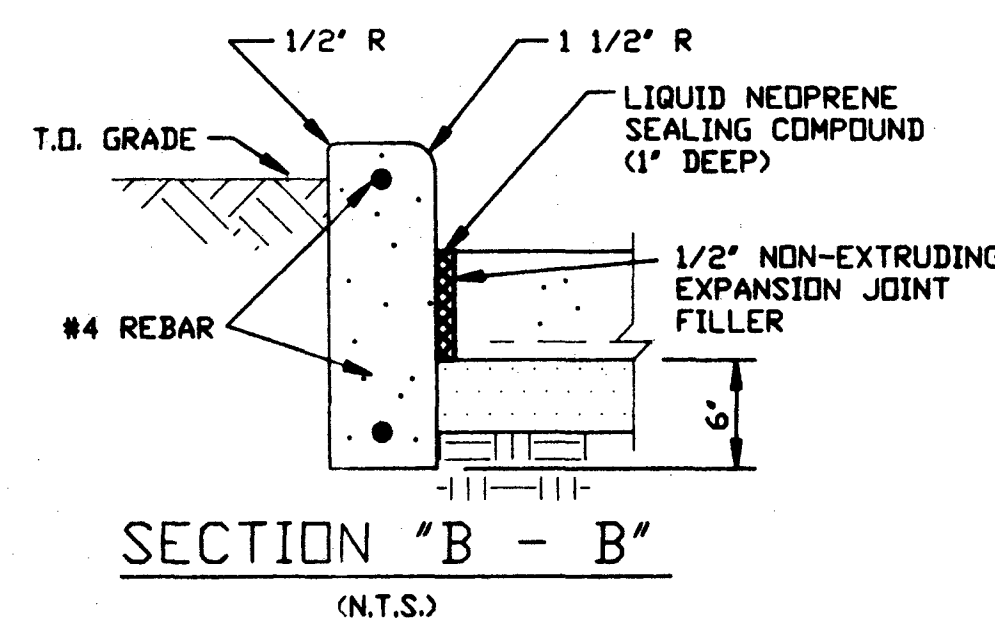
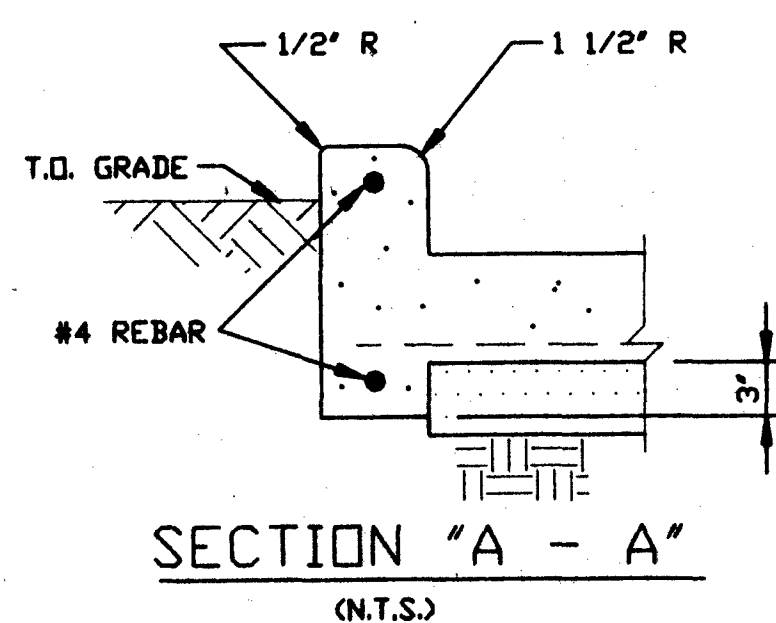
DRAWN BY JY	CHK'D BY ESM	SCALE 1"=10"-0"
DATE 10-21-92	APPR BY	DRAWING NUMBER 44-100-D-1

MAY 15 2007

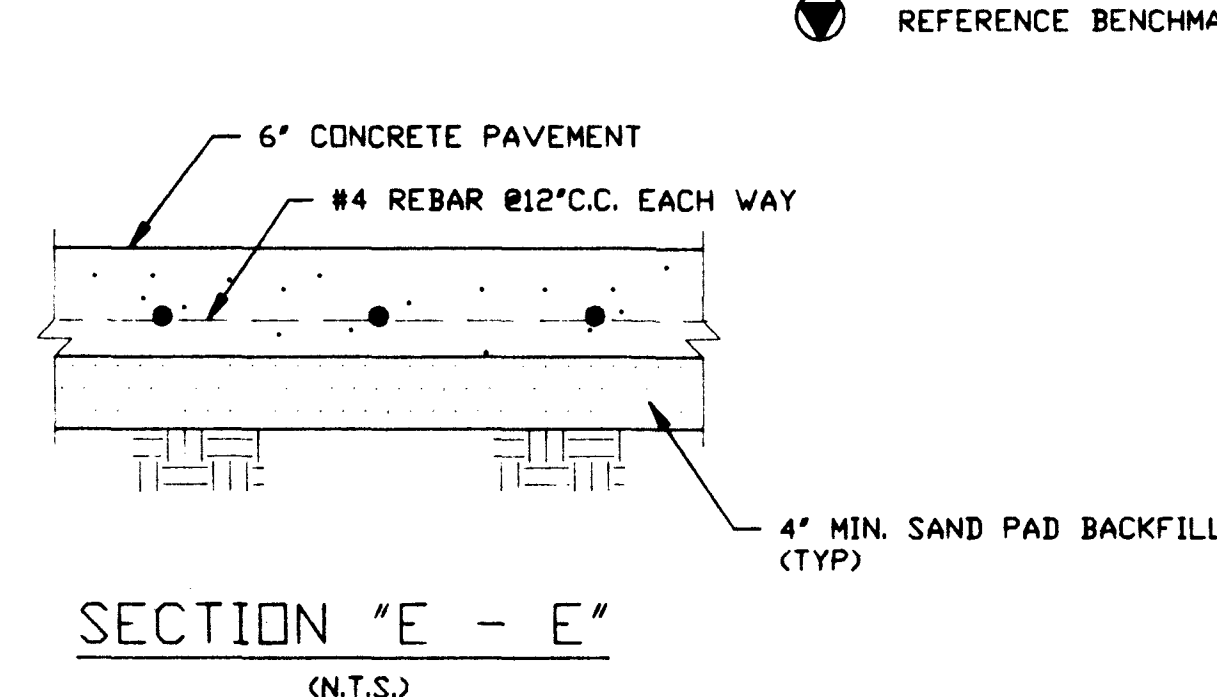
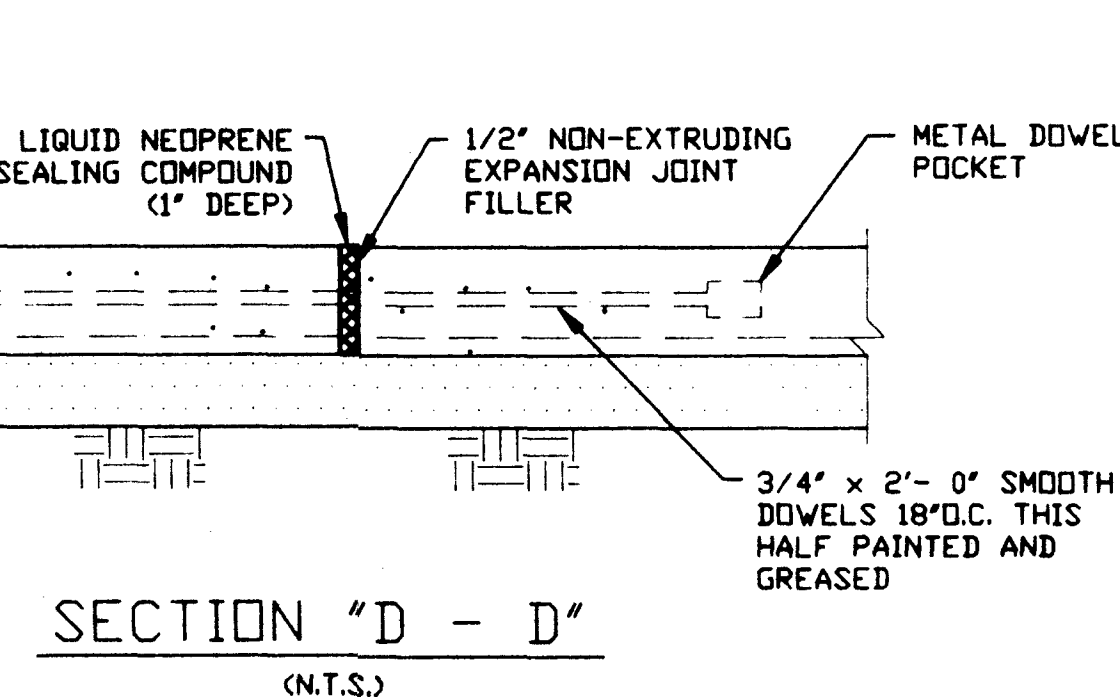
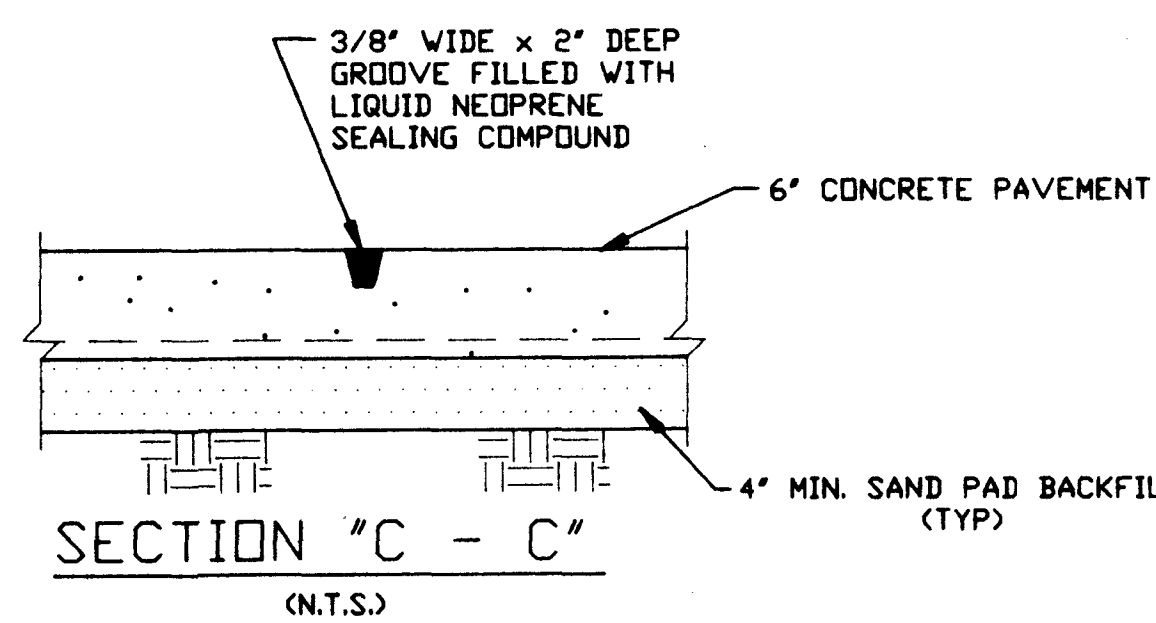


LEGEND

- SEE NOTE 5
- SEE NOTE 6
- TOP OF CONCRETE, HUB, OR INVERT ELEVATION OF SEWER PIPE
- REFERENCE BENCHMARK



NOTE: THIS CONDITION SIMILAR AT ALL EQUIPMENT FOUNDATION PADS.



NOTES

- GOVERNING SPECIFICATIONS: NAVAJO REFINERY SECTIONS D AND D.
- ALL SEWER PIPE AND FITTINGS ARE ASA 021 C.I.
- SEWER PIPE SHALL HAVE 4" SANDPAD ALL AROUND.
- ALL NEW EQUIPMENT FOUNDATIONS AND PIERS SHALL HAVE EXPANSION JOINTS ALL AROUND AT THE SLAB JUNCTION PER NAVAJO STD. D-2.
- DESIGNATES DOWNWARD SLOPE OF CONCRETE PAVING @ 1" PER 8' LINEAR FT. MIN.
- DESIGNATES DOWNWARD SLOPE OF PIPING @ 1/4" PER LINEAR FT. MIN.
- FINAL POSITION OF SEWER BOX #1 TO BE DETERMINED ONCE ALL FOUNDATIONS ARE IN PLACE.

REFERENCE DRAWINGS

- 102-07-D SHT. 1 REV. 2
13-240-D-1 REV. 0
13-244-D-1 - SEWER BOX AND PIPING DETAIL

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	NAVAJO REVIEW CHANGES	RGE	RHM	11/90									

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

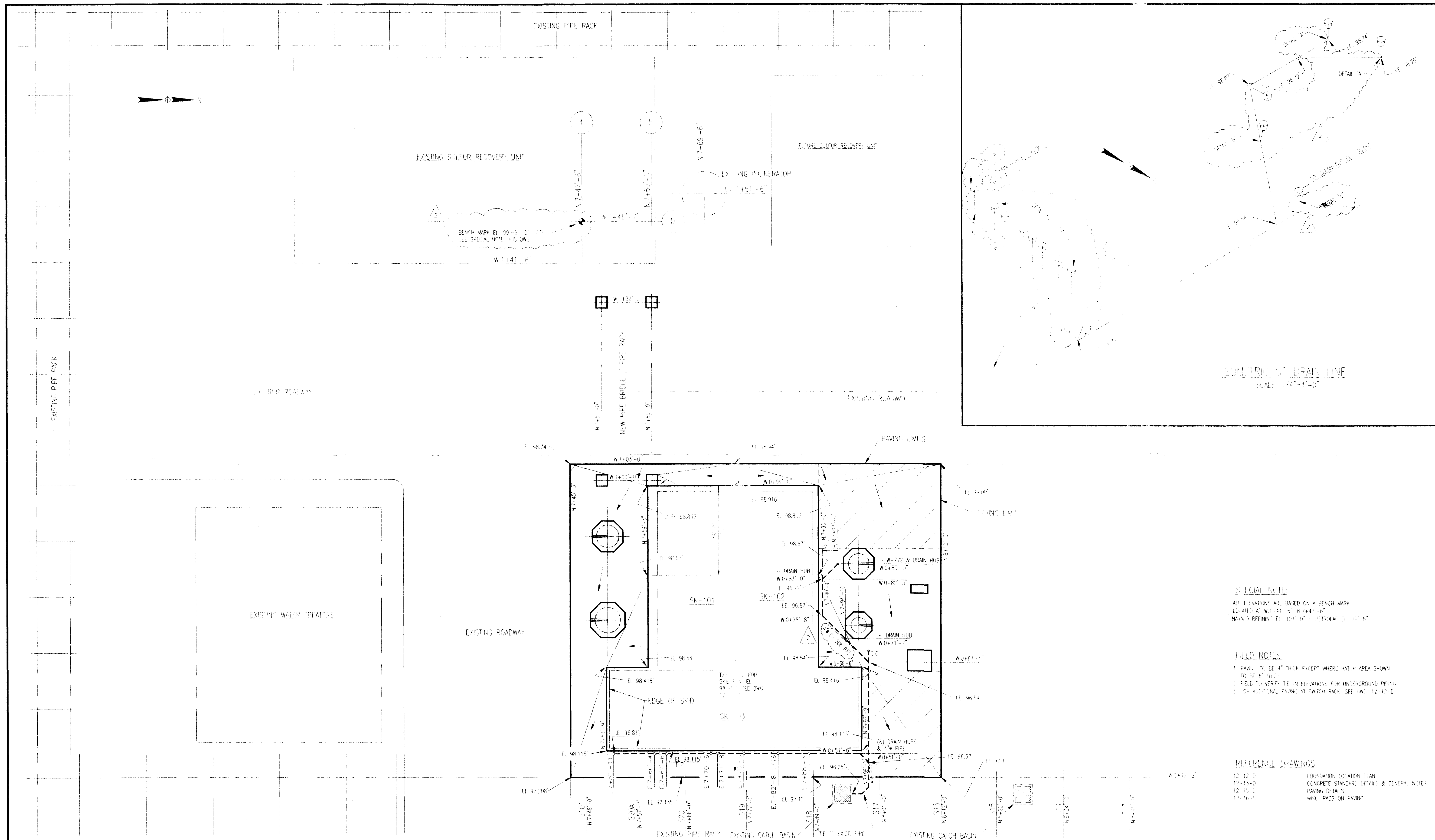
DRAWING TITLE

NAPHTHA HYDRODESULFURIZER UNIT
REVAMP - 1990
UNDERGROUND UTILITIES
PLOT PLAN

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY S. ROCHA	SCALE 3/16" = 1' - 0"
DATE 10-12-90	DRAWING NUMBER 13-241-D
	REV. 1

PROJECT NUMBER: 90520 REVISION DATE: 11-21-90 FILENAME: 13-241-D.DWG

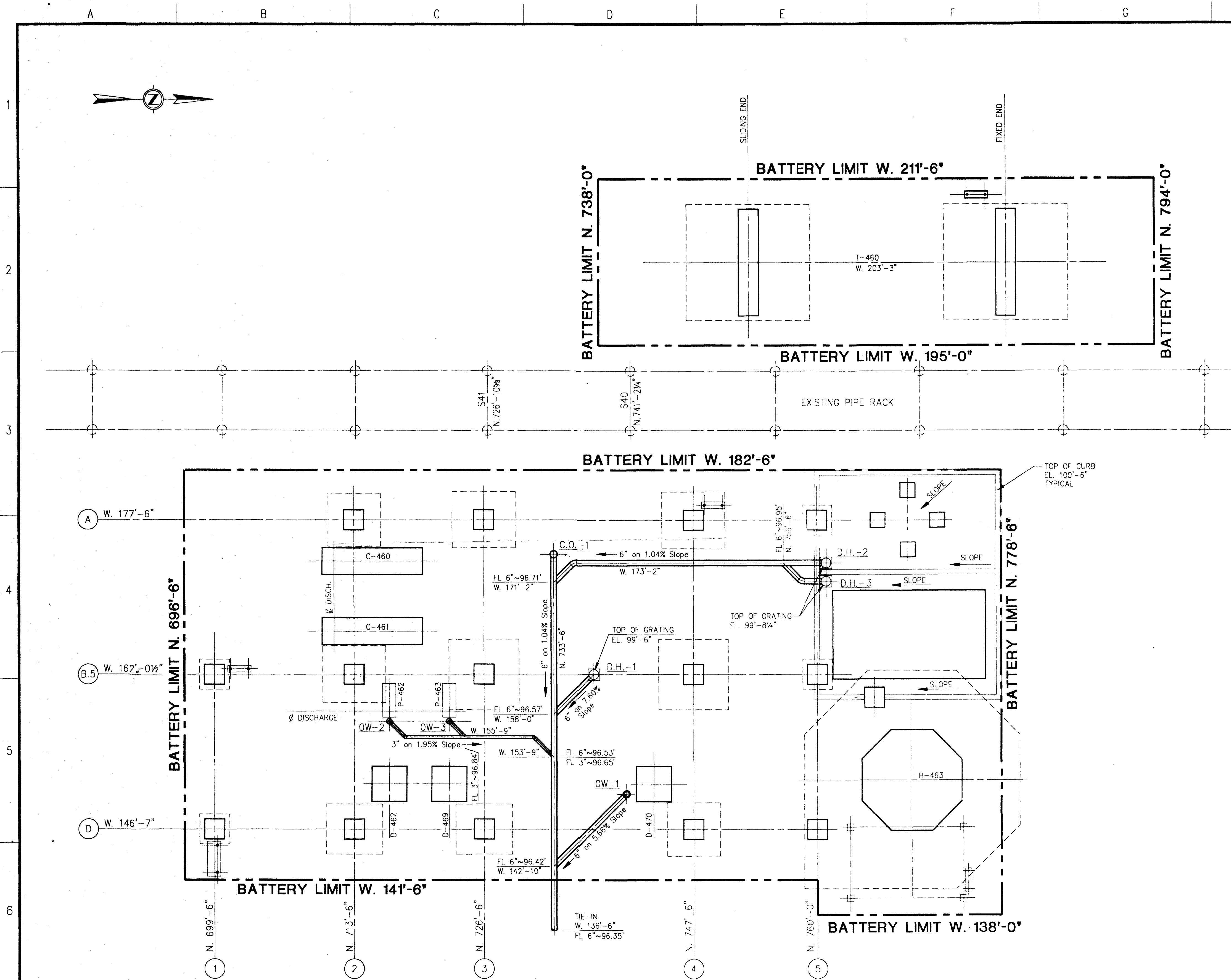


SPECIAL NOTE:
ALL ELEVATIONS ARE BASED ON A BENCH MARK
LOCATED AT W1+41.00, N7+44.00
NAVAJO REFINING EL 1011.00 = PETROFAC EL 1011.00

FIELD NOTES:
1. PAVING TO BE 4" THICK EXCEPT WHERE HATCH AREA SHOWN
TO BE 6" THICK
2. FIELD TO VERIFY THE IN ELEVATIONS FOR UNDERGROUND PIPING
3. FOR ADDITIONAL PAVING AT SWITCH RACK SEE DWG. 12-10-D

REFERENCE DRAWINGS:
12-12-D FOUNDATION LOCATION PLAN
12-13-D CONCRETE STANDARD DETAILS & GENERAL NOTES
12-15-D PAVING DETAILS
12-16-D MISC. PADS ON PAVING

NOTES 1.) SEE NAVAJO PLOT PLAN 15-Z-5-D FOR GENERAL REFERENCE		DRAWING ISSUED ☐ PRELIMINARY ☒ FOR CONSTRUCTION ☐ FOR ENGINEERING ☐ FOR APPROVAL ☐ FOR DESIGN ☐ FOR INFORMATION ☒ REVISED DESTROY ALL PREVIOUS COPIES OF DWG REVIEW THIS ISSUE FOR CHANGES		JOB NO. 733 NAVAJO REFINING CO. DATE 6/6/97		DRAWN DRW CK'D APP'D DATE 6/6/97 SCALE 1/8"=1'-0" H.N.		PETROFAC LLC TYLER, TEXAS THIS DRAWING IS THE PROPERTY OF PETROFAC LLC. IT SHALL NOT BE LOANED, REPRODUCED, COPIED, SENT, OR OTHERWISE USED OR DISCLOSED TO ANY OTHER PARTY WITHOUT THE WRITTEN PERMISSION OF PETROFAC LLC.		PAVING & DRAINAGE PLAN 60,000 BBL/D GAS TREATING UNIT WITH AMINE REGENERATION ARTESIA, NEW MEXICO CLIENT: NAVAJO REFINING COMPANY DWG. 12-18-D REV. 2	
---	--	---	--	--	--	---	--	---	--	--	--



OILY WATER HUB LOCATION CHART				
HUB NUMBER	DRAIN SIZE	COORDINATE		FLOW LINE
		NORTH	WEST	
O.W.-1	6"	N. 740'-9"	W. 150'-1"	97.00'
O.W.-2	6"	N. 717'-0"	W. 157'-4"	97.00'
O.W.-3	3"	N. 723'-0"	W. 157'-4"	97.00'

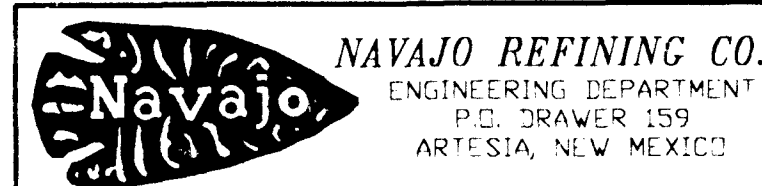
NOTE:
TOP OF HUB EL. 100'-6".

OILY WATER CLEAN-OUT LOCATION CHART				
CLEAN-OUT NUMBER	DRAIN SIZE	COORDINATE		FLOW LINE
		NORTH	WEST	
C.O.-1	6"	N. 733'-6"	W. 174'-0"	96.74'

NOTE:
SET TOP OF CLEAN-OUT FLUSH WITH PAVING.

STORM WATER DRAIN LOCATION CHART				
HUB NUMBER	DRAIN SIZE	COORDINATE		FLOW LINE
		NORTH	WEST	
D.H.-1	6"	N. 737'-6"	W. 162'-0 1/2"	97.00'
D.H.-2	6"	N. 760'-11"	W. 173'-2"	97.00'
D.H.-3	6"	N. 760'-11"	W. 171'-4"	97.00'

NOTE:
SEE PLAN FOR TOP OF GRATE ELEVATION.
TOP OF GRATE TO BE FLUSH WITH TOP OF PAVING.



TPA, Inc. Consultants/Engineers/Managers
Dallas, Texas

**20 TPD SULFUR RECOVERY UNIT
UNDERGROUND PIPING PLAN
STORM & OILY WATER**

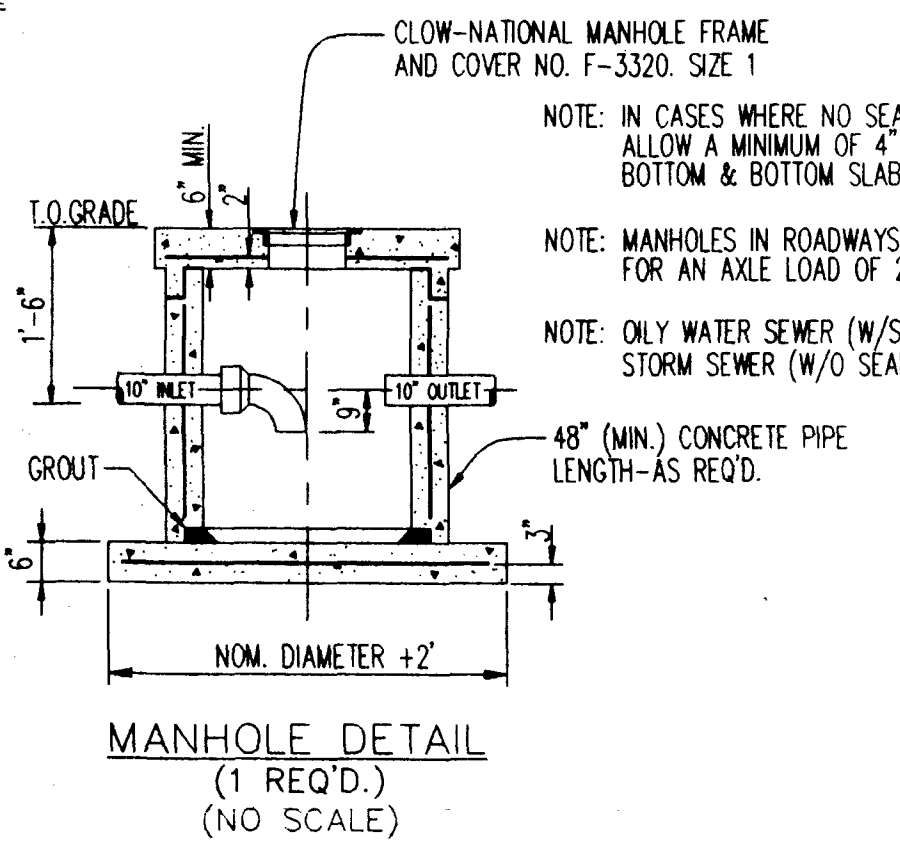
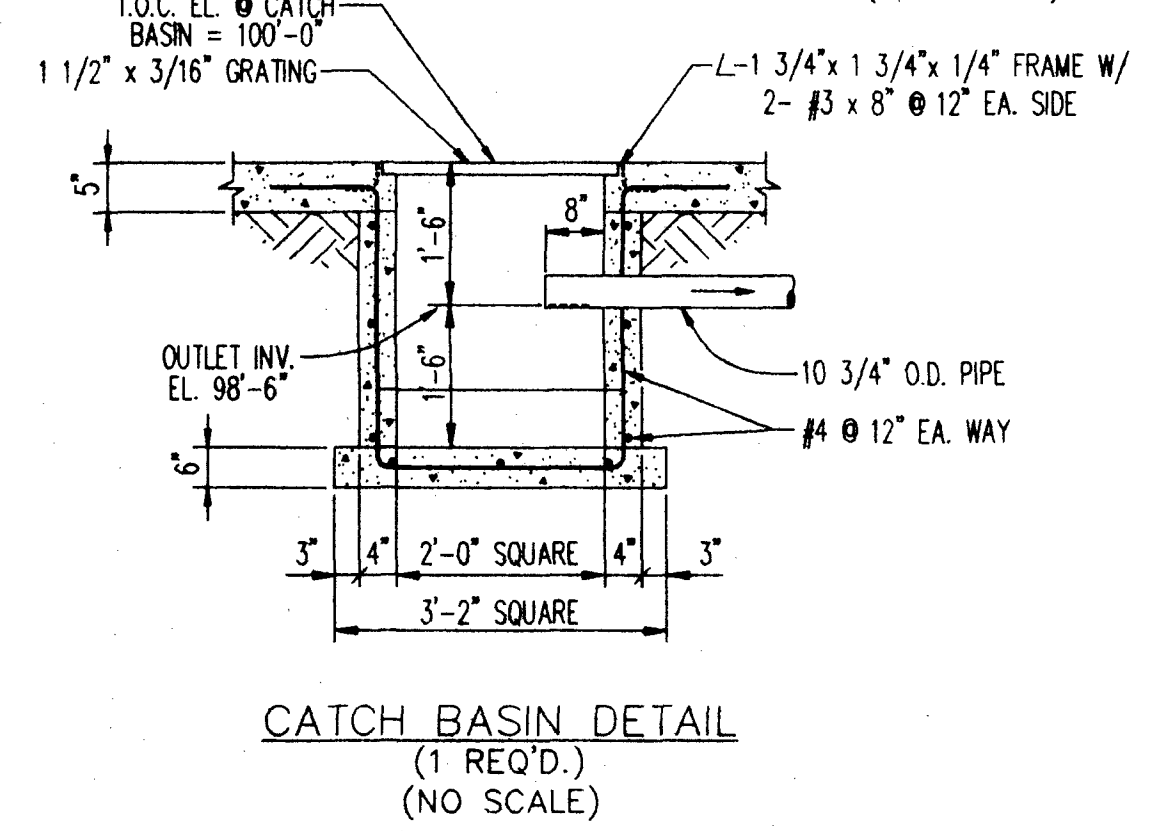
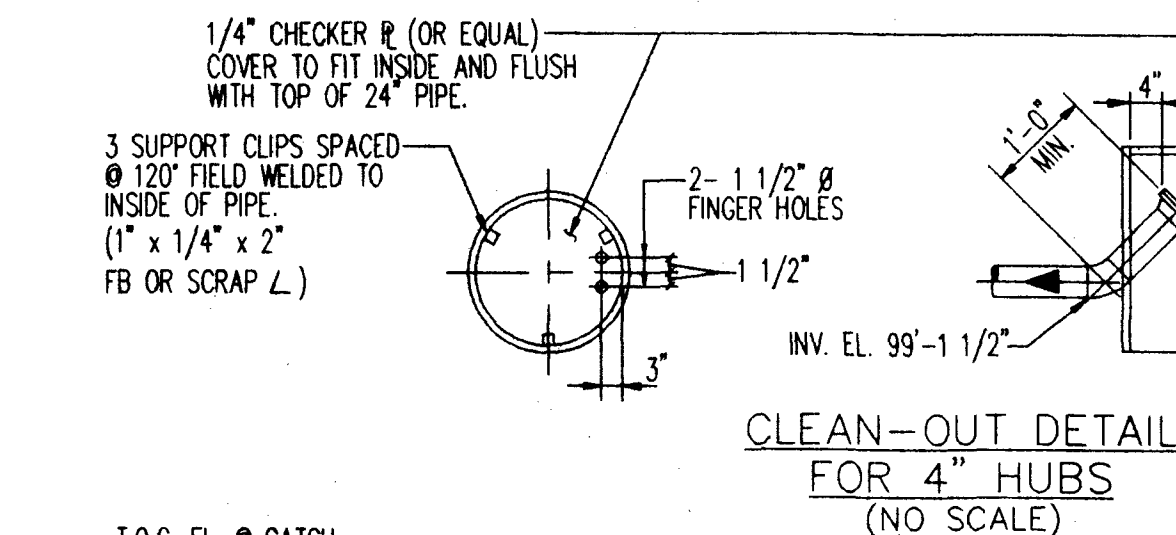
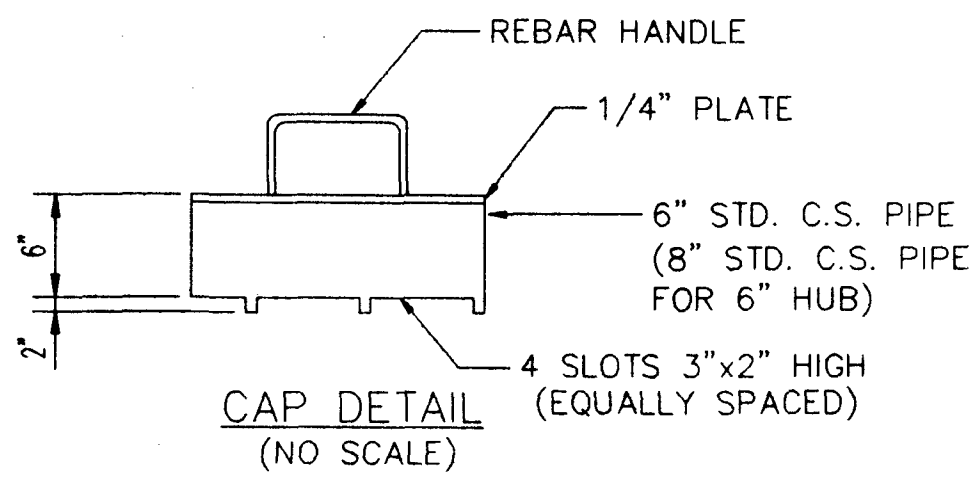
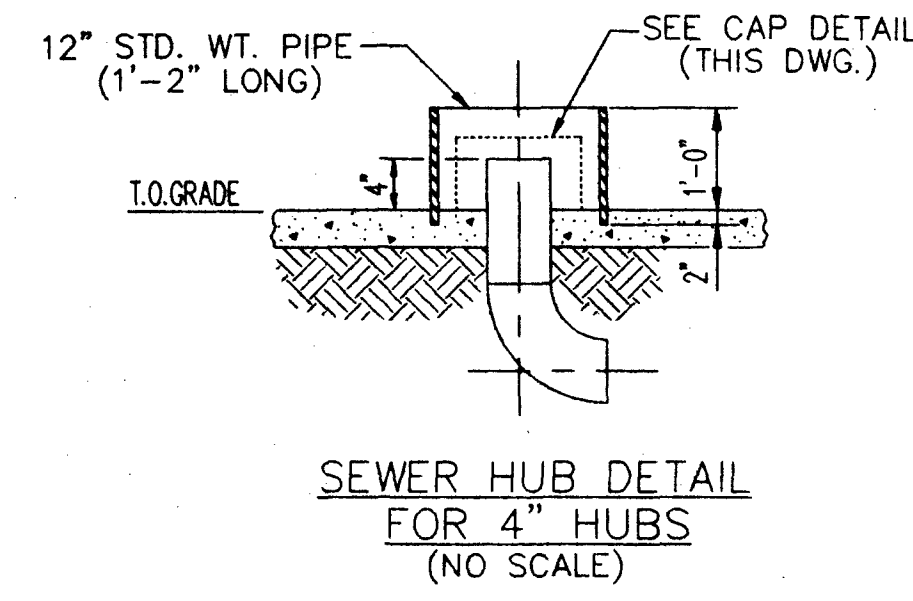
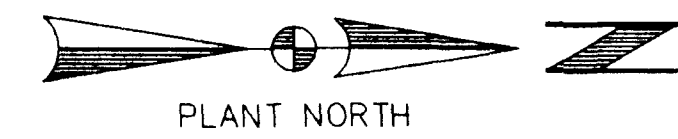
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FILE NAME: 0100\130 JOB NUMBER: 0100C
SCALE: 3/16" = 1'-0" DRAWING NUMBER: D-100-11130 OWNERS DRAWING NUMBER: 11-3-0 VISION: 0

NOTES:					REVISIONS					REFERENCE DRAWINGS					ISSUE RECORD					ENGINEERING RECORD				
					NO.	DATE	DESCRIPTION	BY	CHK'D	APP'D	DRAWING NUMBER	DRAWING DESCRIPTION			DATE	NO.	REV	TO	FOR	DRAWN BY	DATE	DATE	DATE	DATE
											D-100-11101	FOUNDATION LOCATION PLAN			12-10-90	1	A	CLIENT	REVIEW	GWS	11-13-90			
											D-100-11113	PAVING PLAN			1-21-91	2	0	CLIENT	CONSTRUCTION	SLS	12-17-90			
											D-100-11131	UNDERGROUND PIPING DETAILS								PS	12-18-90			
																				JCO	12-18-90			
																				JRD	1-14-91			

CONFIDENTIAL

THIS DRAWING IS BASED ON LICENSED INFORMATION AND IS NOT TO BE USED OTHER THAN IN THE CONSTRUCTION, OPERATION, AND MAINTENANCE OF THE PLANT FOR WHICH IT WAS PREPARED.

AREA LIMITS W. 2+14'-6"



NOTE: IN CASES WHERE NO SEALS ARE REQUIRED ALLOW A MINIMUM OF 4\"/>

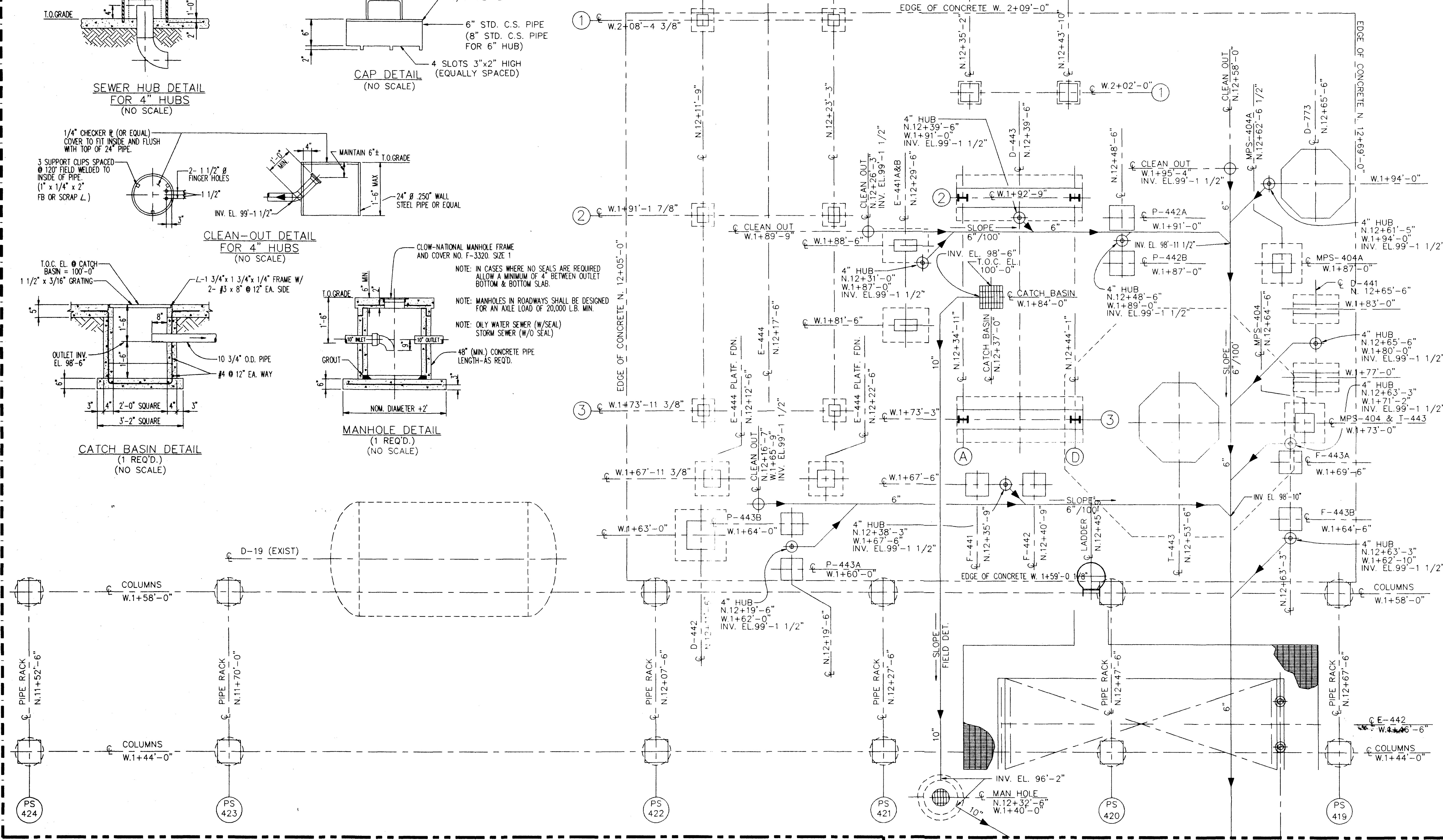
NOTE: MANHOLES IN ROADWAYS SHALL BE DESIGNED FOR AN AXLE LOAD OF 20,000 LB. MIN.

NOTE: ONLY WATER SEWER (W/SEAL) STORM SEWER (W/O SEAL)

48\"/>

AREA LIMITS N. 11+50'-2"

AREA LIMITS N. 12+77'-2"

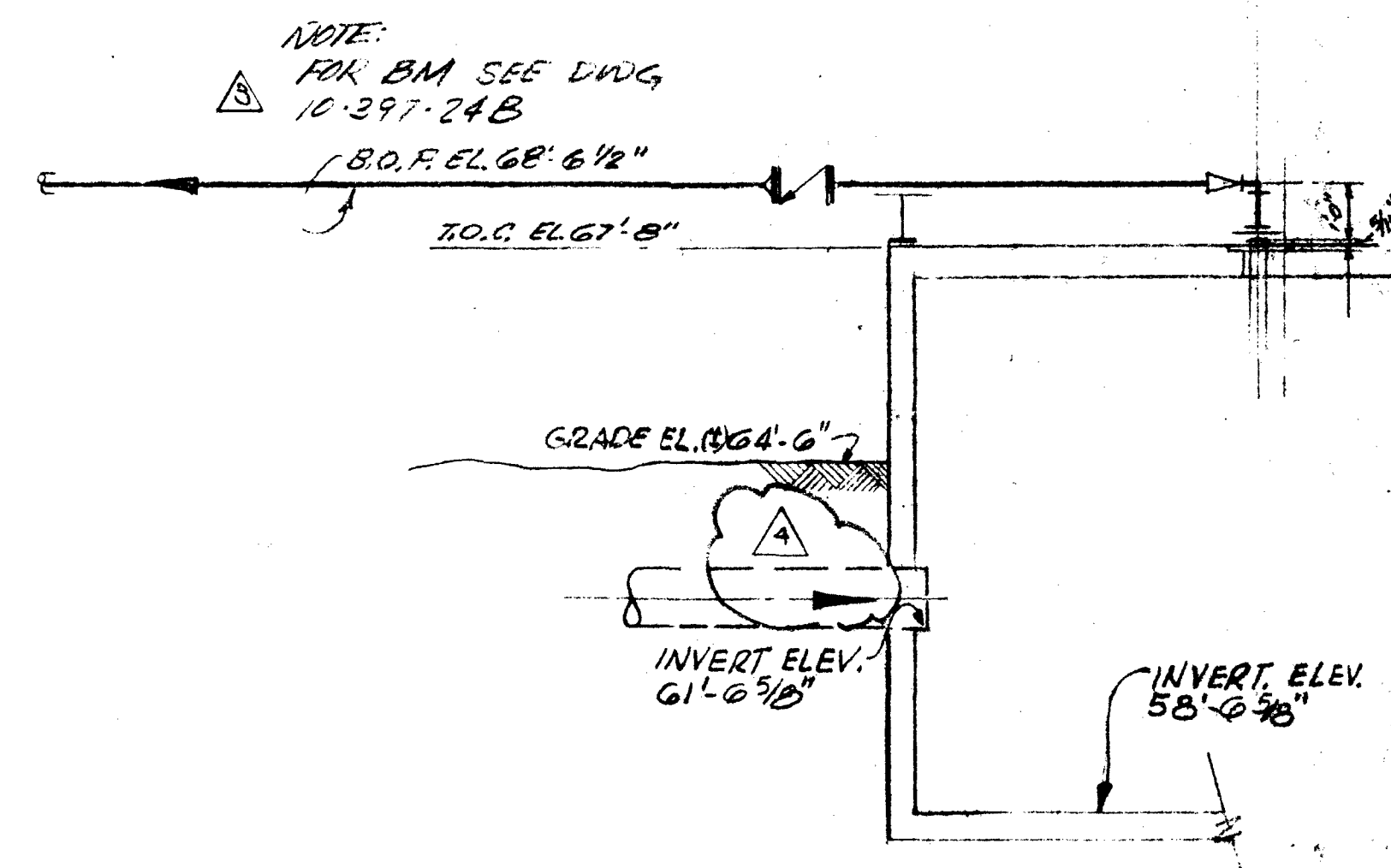
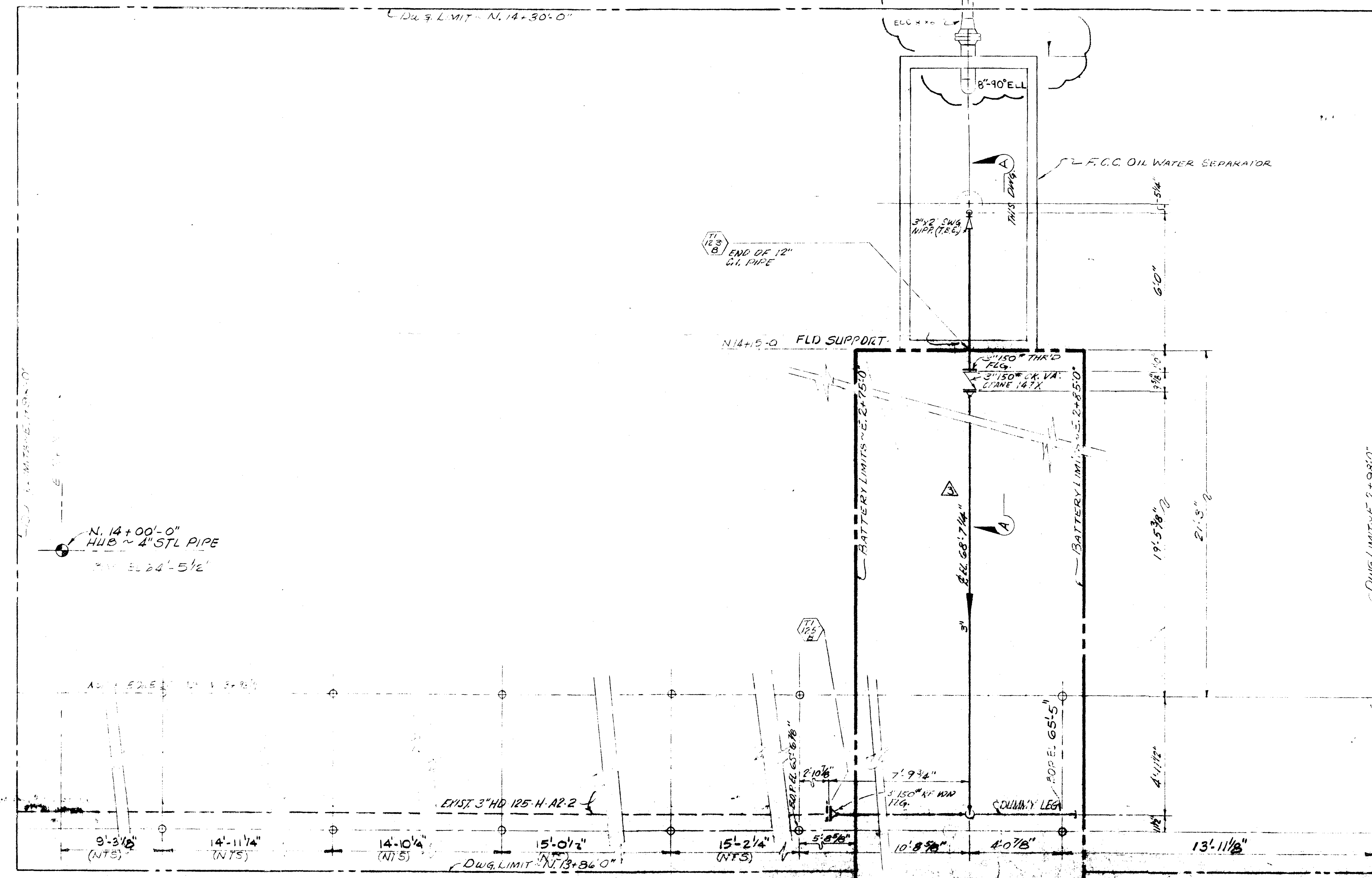
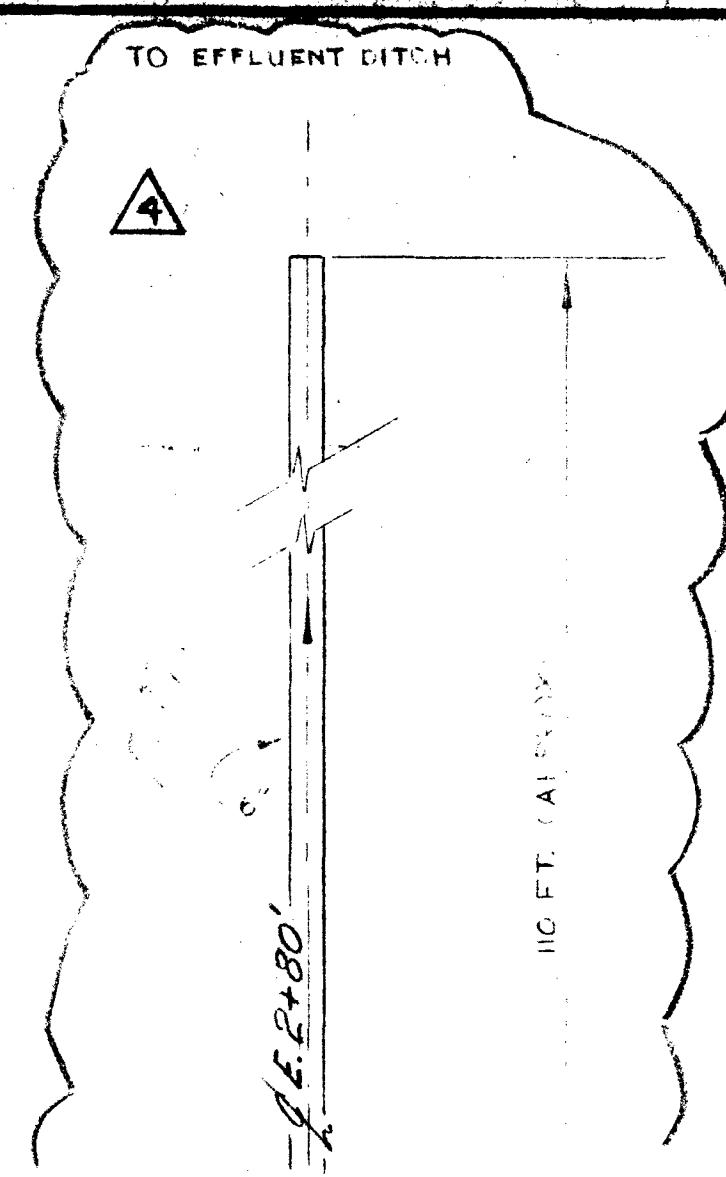
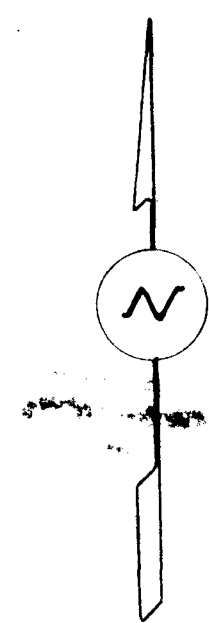


AREA LIMITS W. 1+36'-6"

(W. 1+36'-6" CONT. ON DWG. 07-81-D-02)

NOTES HIGH POINT OF FINISHED GRADE ELEVATION EQUALS 100'-6"		REFERENCE DRAWINGS 07-87-D PIPING PLAN FROM GRADE TO EL. 118'-5 3/4"		<table border="1"> <thead> <tr> <th>NO.</th> <th>REVISIONS</th> <th>BY</th> <th>CHK.</th> <th>DATE</th> <th>APPR.</th> <th>NO.</th> <th>REVISIONS</th> <th>BY</th> <th>CHK.</th> <th>DATE</th> <th>APPR.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>ISSUED FOR APPROVAL</td> <td>JLC</td> <td>YVF</td> <td>7/23/92</td> <td>SD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>REVISED COORDS. PER CLIENTS DIRECTIONS</td> <td>JLC</td> <td>G.A.</td> <td>7/29/92</td> <td>SD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>REVISED MPS-404A</td> <td>JLC</td> <td>G.A.</td> <td>8/12/92</td> <td>SD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>ISSUED FOR CONSTRUCTION</td> <td>BRENT</td> <td>D.G.</td> <td>8/28/92</td> <td>SD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		NO.	REVISIONS	BY	CHK.	DATE	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	A	ISSUED FOR APPROVAL	JLC	YVF	7/23/92	SD							B	REVISED COORDS. PER CLIENTS DIRECTIONS	JLC	G.A.	7/29/92	SD							C	REVISED MPS-404A	JLC	G.A.	8/12/92	SD							D	ISSUED FOR CONSTRUCTION	BRENT	D.G.	8/28/92	SD							DRAWING TITLE UNDERGROUND SEWER PLAN RELOCATED AMINE UNIT		NAVAJO REFINING CO. ENGINEERING DEPARTMENT P.D. DRAWER 159 ARTESIA, NEW MEXICO	
NO.	REVISIONS	BY	CHK.	DATE	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.																																																										
A	ISSUED FOR APPROVAL	JLC	YVF	7/23/92	SD																																																																
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D	ISSUED FOR CONSTRUCTION	BRENT	D.G.	8/28/92	SD																																																																
DRAWN BY CRENSHAW		CHK'D BY FLORES		SCALE 1/4"=1'-0"		DATE 7/23/92		APPR BY SD		DRAWING NUMBER 07-81-D-01		REV. 0																																																									

MAY 15 2002



- NOTE -
EQUATION FOR ELEVATION CALCULATION
BETWEEN NAVAJO & BLOUNT 3368.13 (68.13) = 100'-2"

NOTES

- REFERENCE DRAWINGS
1. PLOT PLAN - F.C.C. UNIT - 10-341-24B
 2. F.C.C. OIL WATER SEPARATOR - 10-759-24B
 3. INTERPLANT LINE BLOCK FLOW DIAGRAM - 10-820-24B
 4. PIPING ISOMETRIC - F.C.C. UNIT - 10-397-24B

NO.	REVISION
1	GENERAL
2	ADDED TIE-IN
3	ADDED LINE TO SEWER BOX
4	ADDED LINE TO SEWER BOX

REFINING COMPANY
ENGINEERING DEPARTMENT
ALBERTA, NEW MEXICO

PIPING PLAN
F.C.C. UNIT
OIL WATER SEWER BOX

N

4

N 4+00-0"
H-4 STL PIPE

E.S. HGR REF. 12.1

NOTES

REFERENCE DRAWINGS

1. 10-320-248
2. 10-320-248
3. 10-320-248
4. 10-320-248

NO	REVISIONS	BY	CHK	DATE	APPR	APPR
1	GENERAL REVISION	J.P.	JK	7.1.80	JK	JK
2	GENERAL REVISION	J.P.	JK	7.1.80	JK	JK
3	GENERAL REVISION	J.P.	JK	7.1.80	JK	JK
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Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

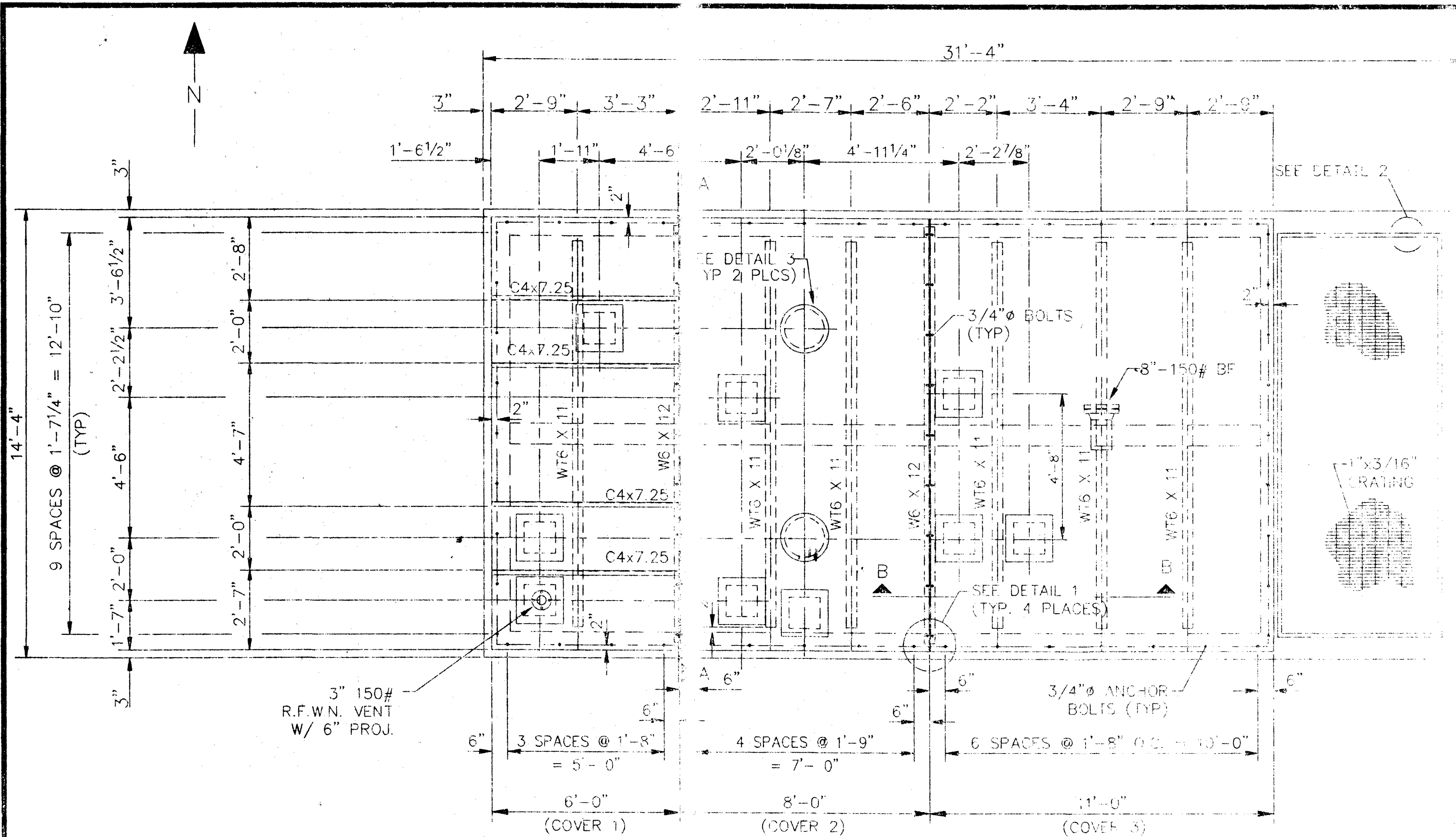
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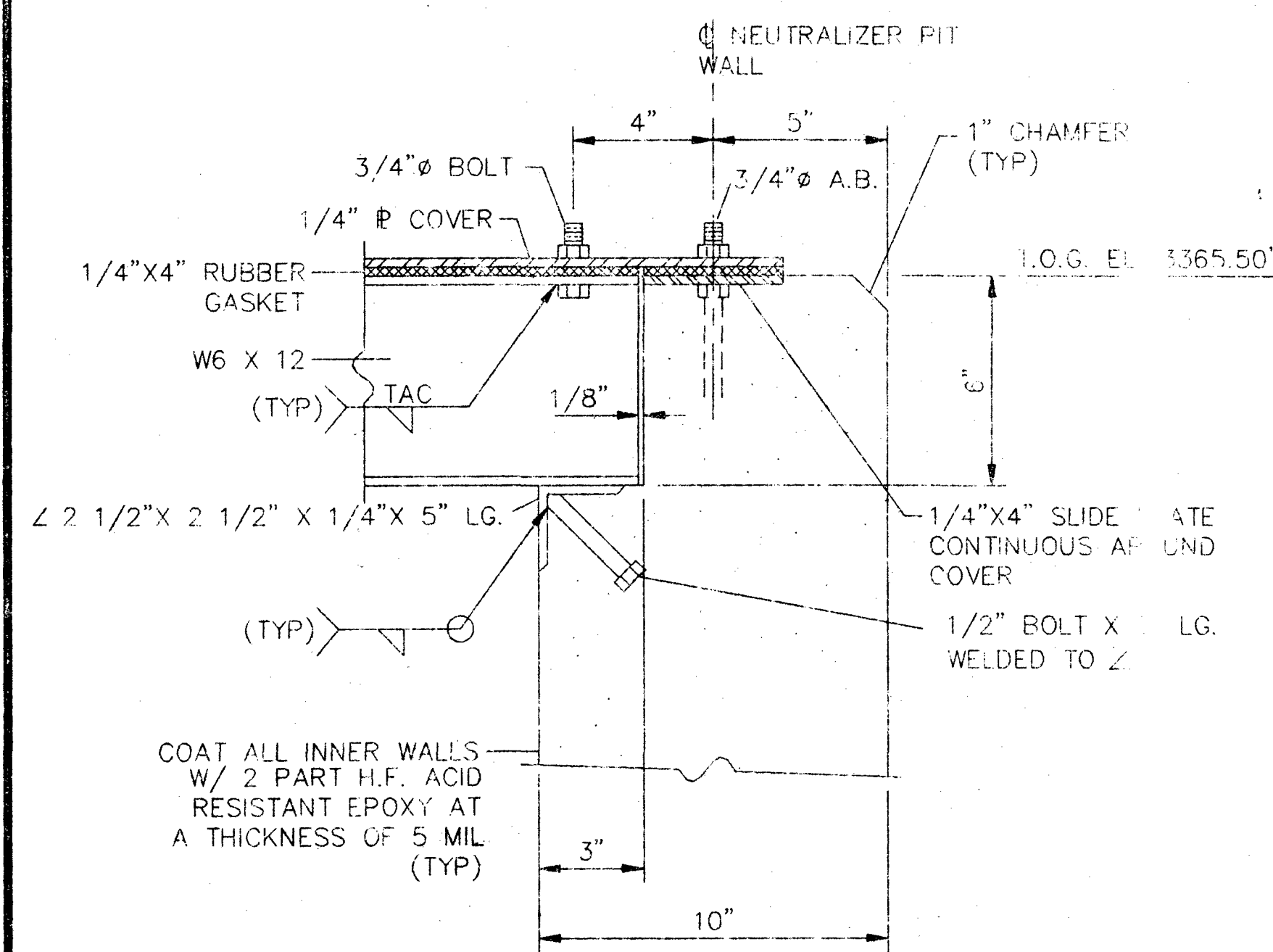
PIPING PLAN
F.C.C. UNIT
OILY WATER SEWER BOX

Navajo

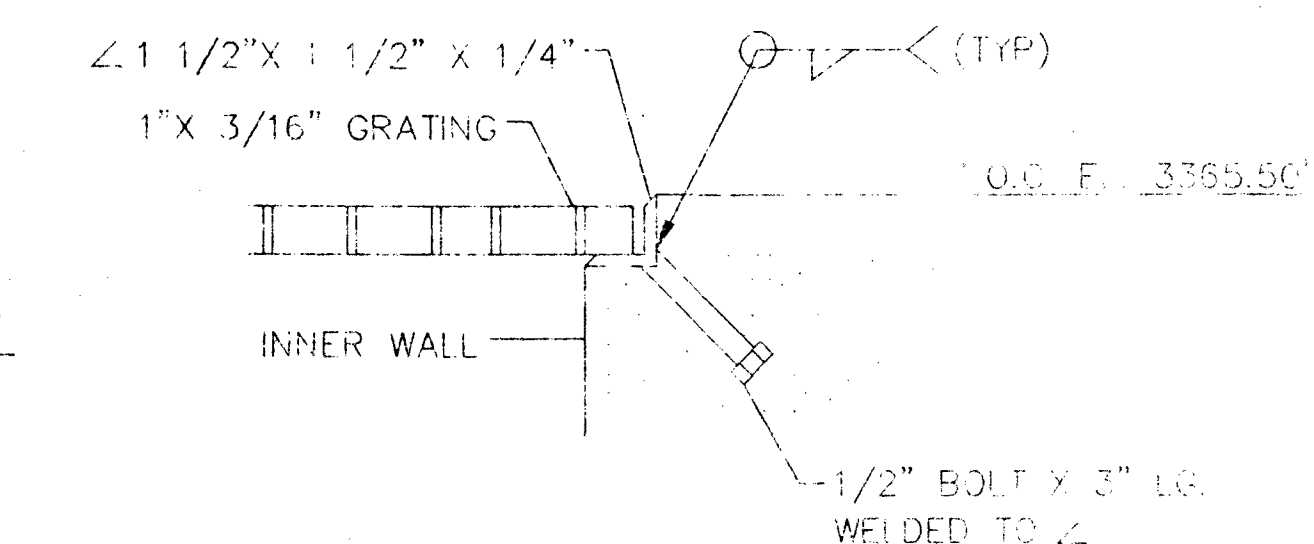
DRAWING NO.
10-761-D
MAY 15 2002



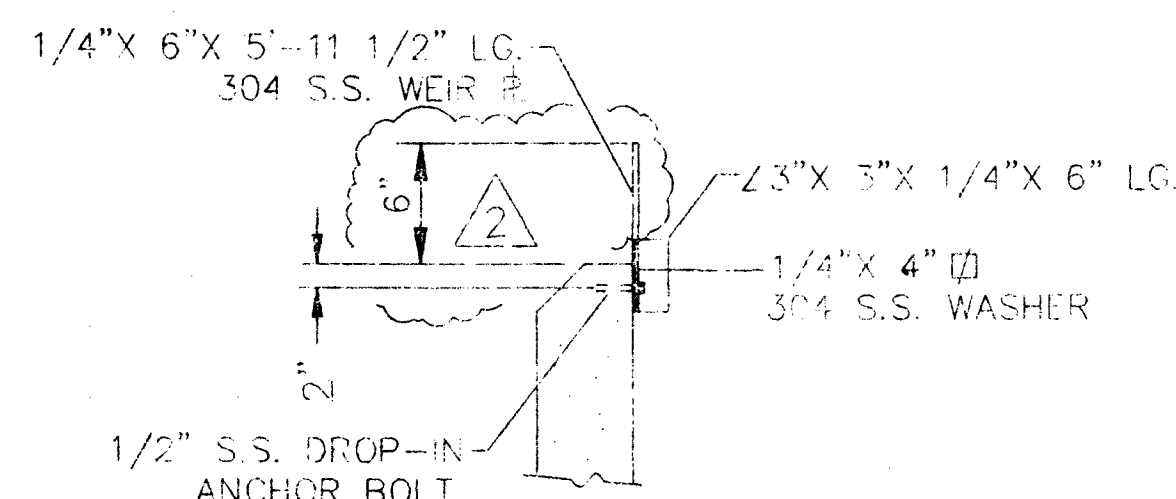
NEUTRALIZER COVER PLAN
SCALE: 3/8" = 1'-0"



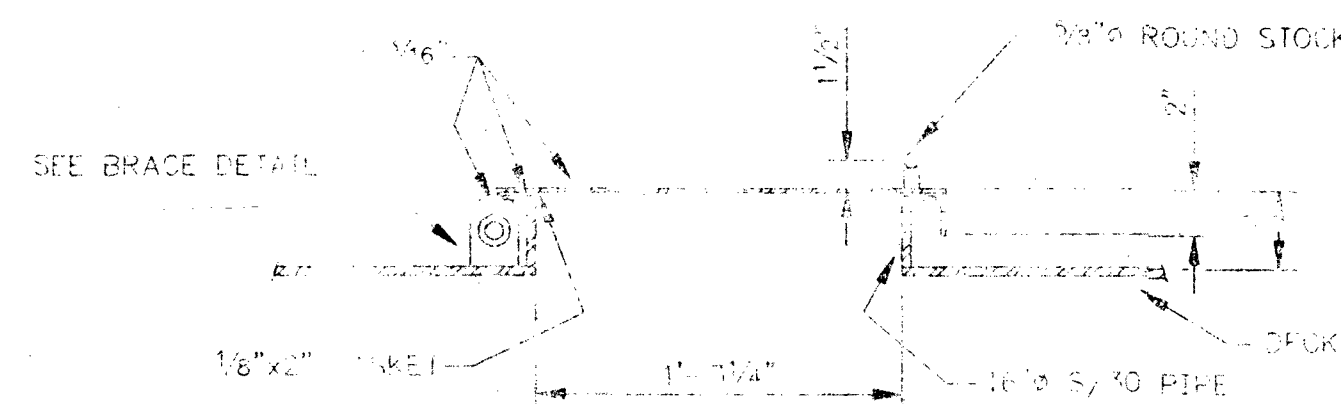
DETAIL "1"
SCALE: 3" = 1'-0"



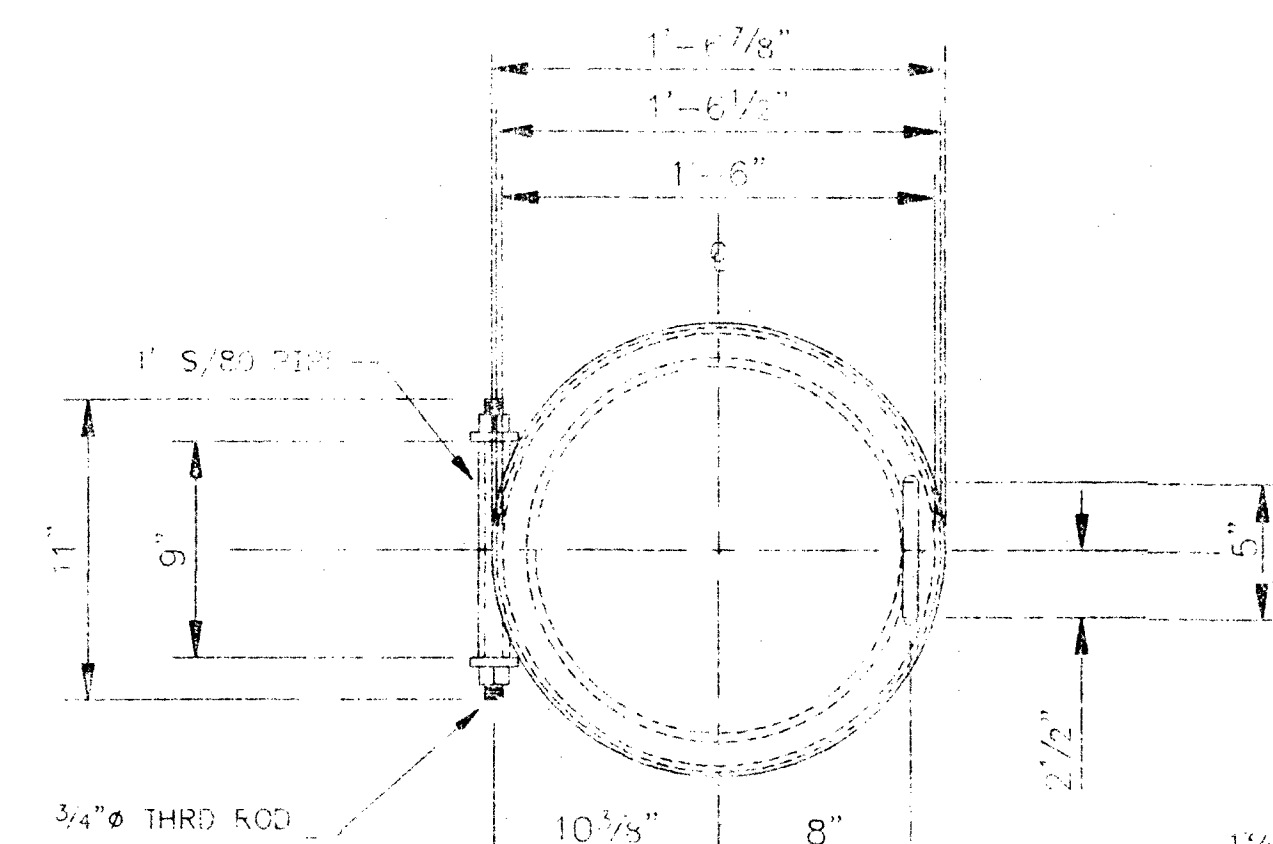
DETAIL "2"
SCALE: 3" = 1'-0"



DETAIL 4
SCALE: 3/4" = 1'-0"



ELEVATION



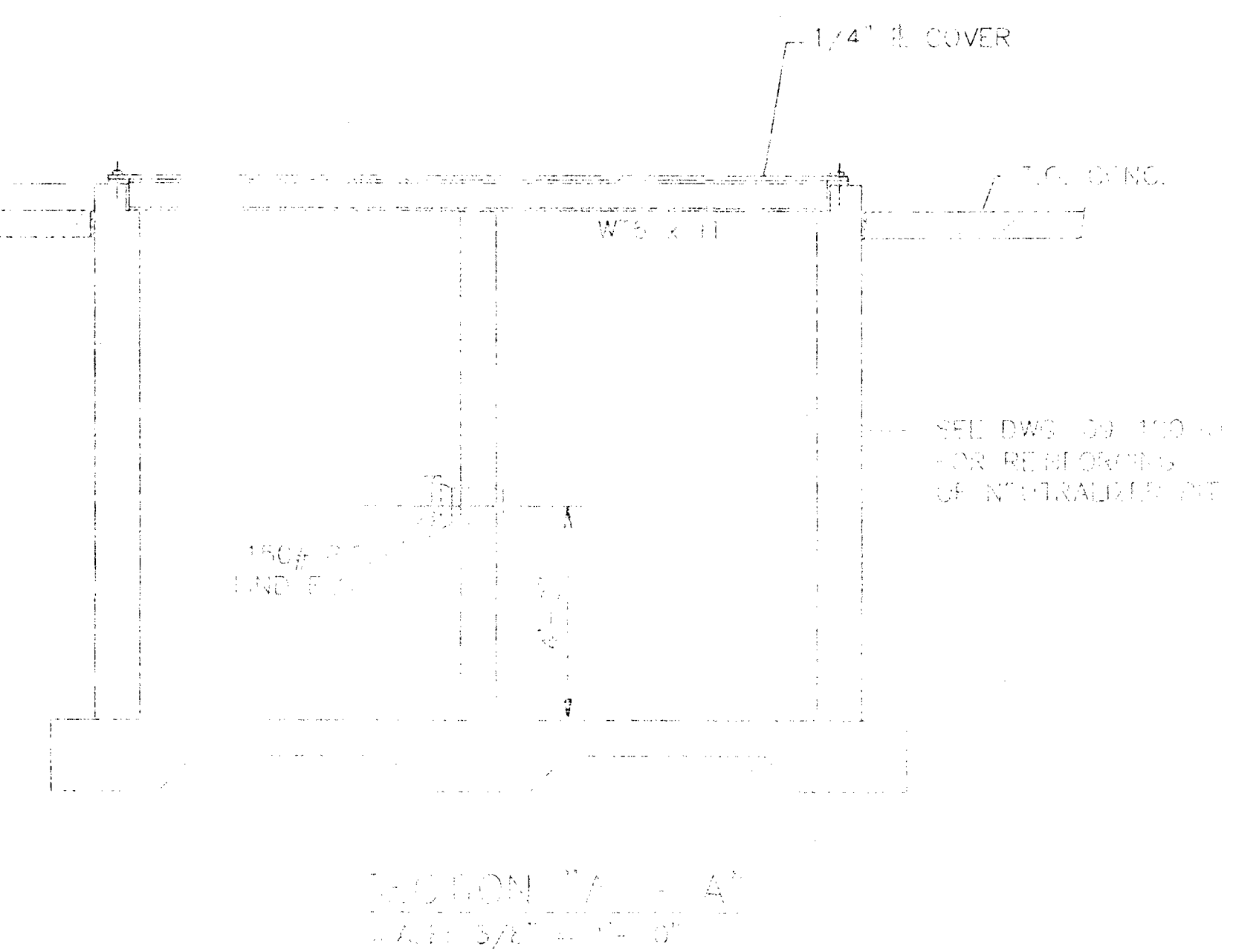
PLAN VIEW

DETAIL 3
SCALE: 1 1/2" = 1'-0"

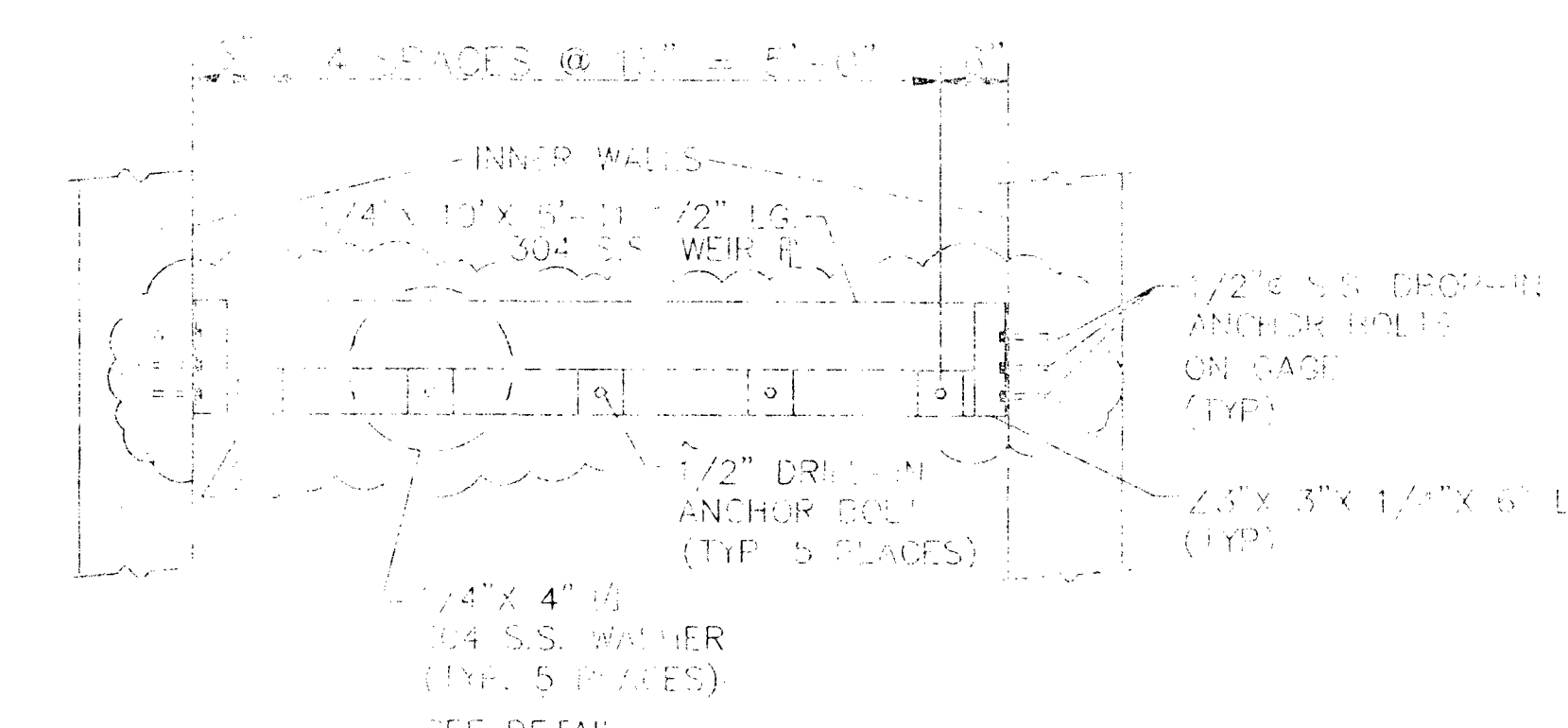


BRACE DETAIL
2 REV'D

L.O.G.
EL. 3365.50'



SECTION "B-B"
SCALE: 3" = 1'-0"



ELEVATION
SCALE: 3/4" = 1'-0"

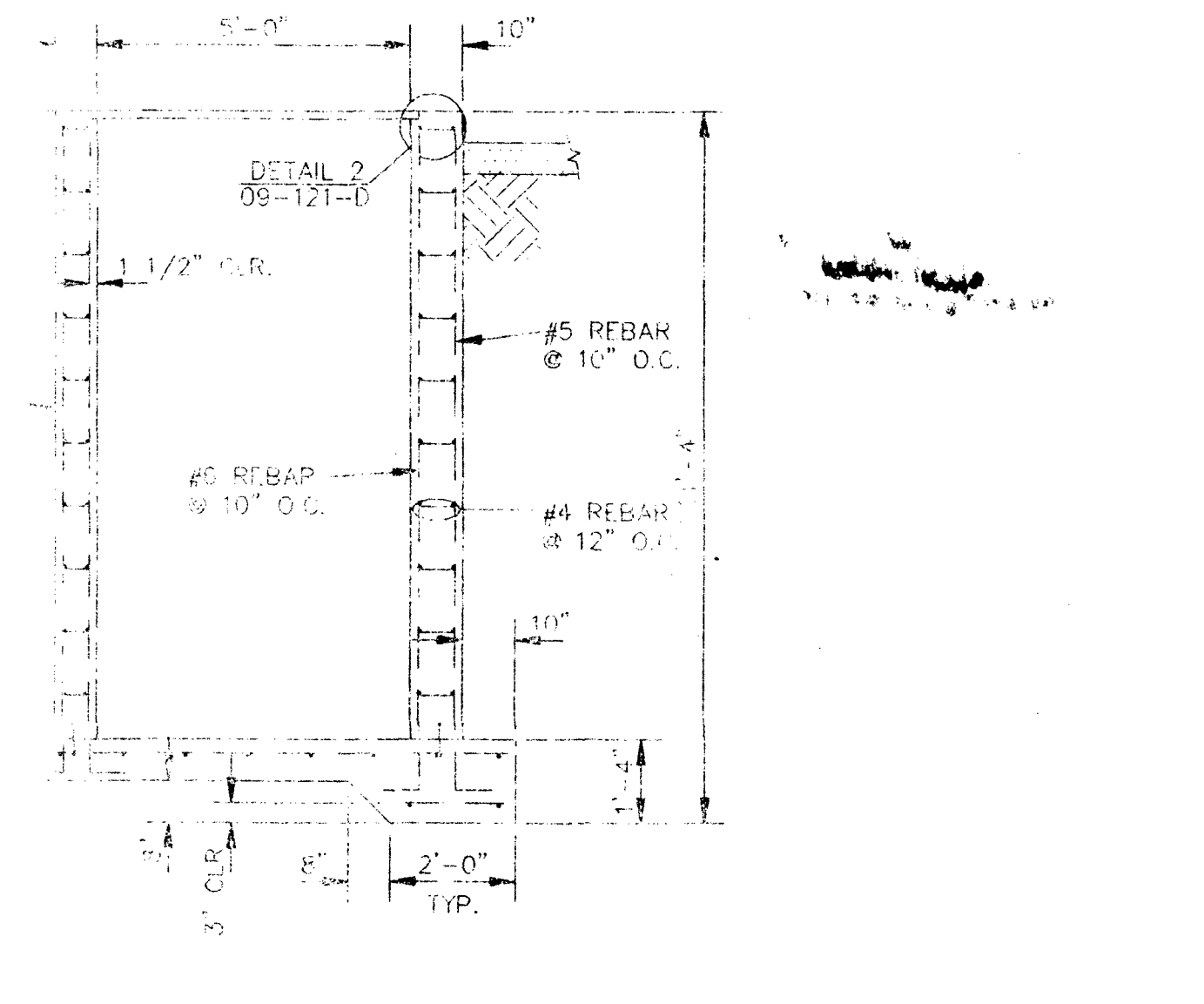
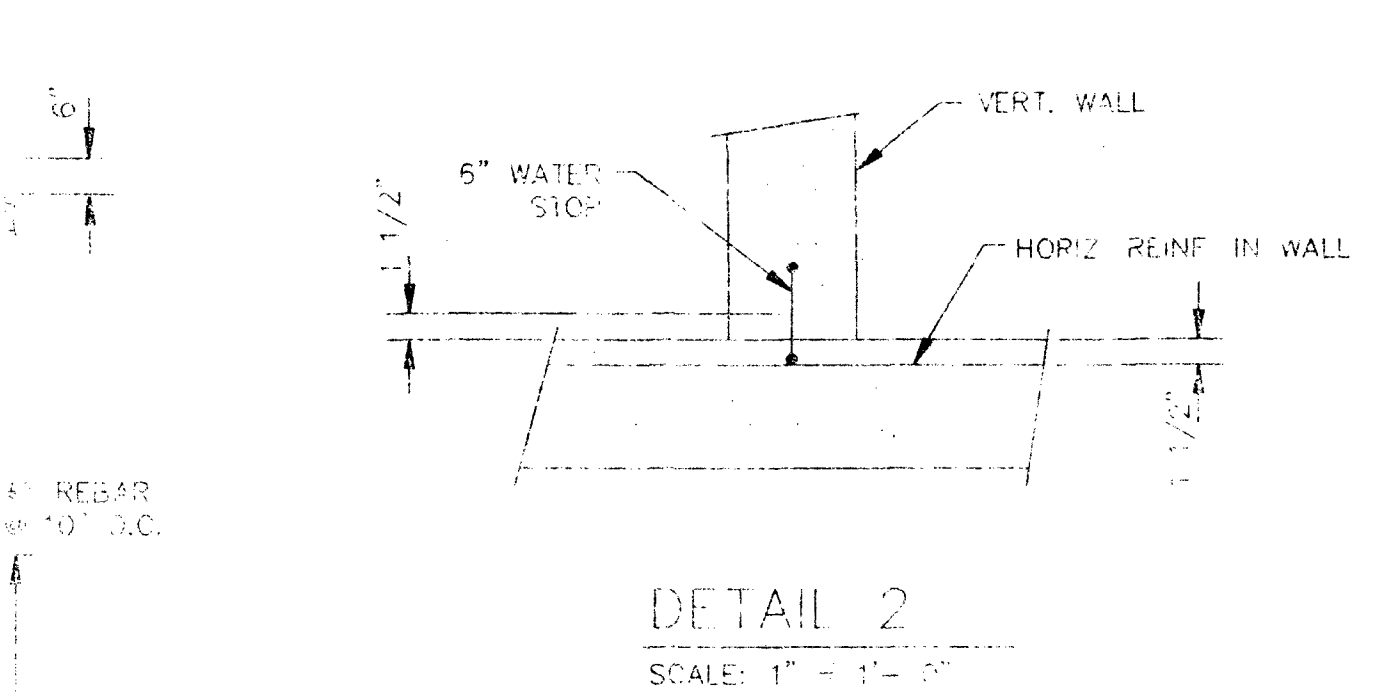
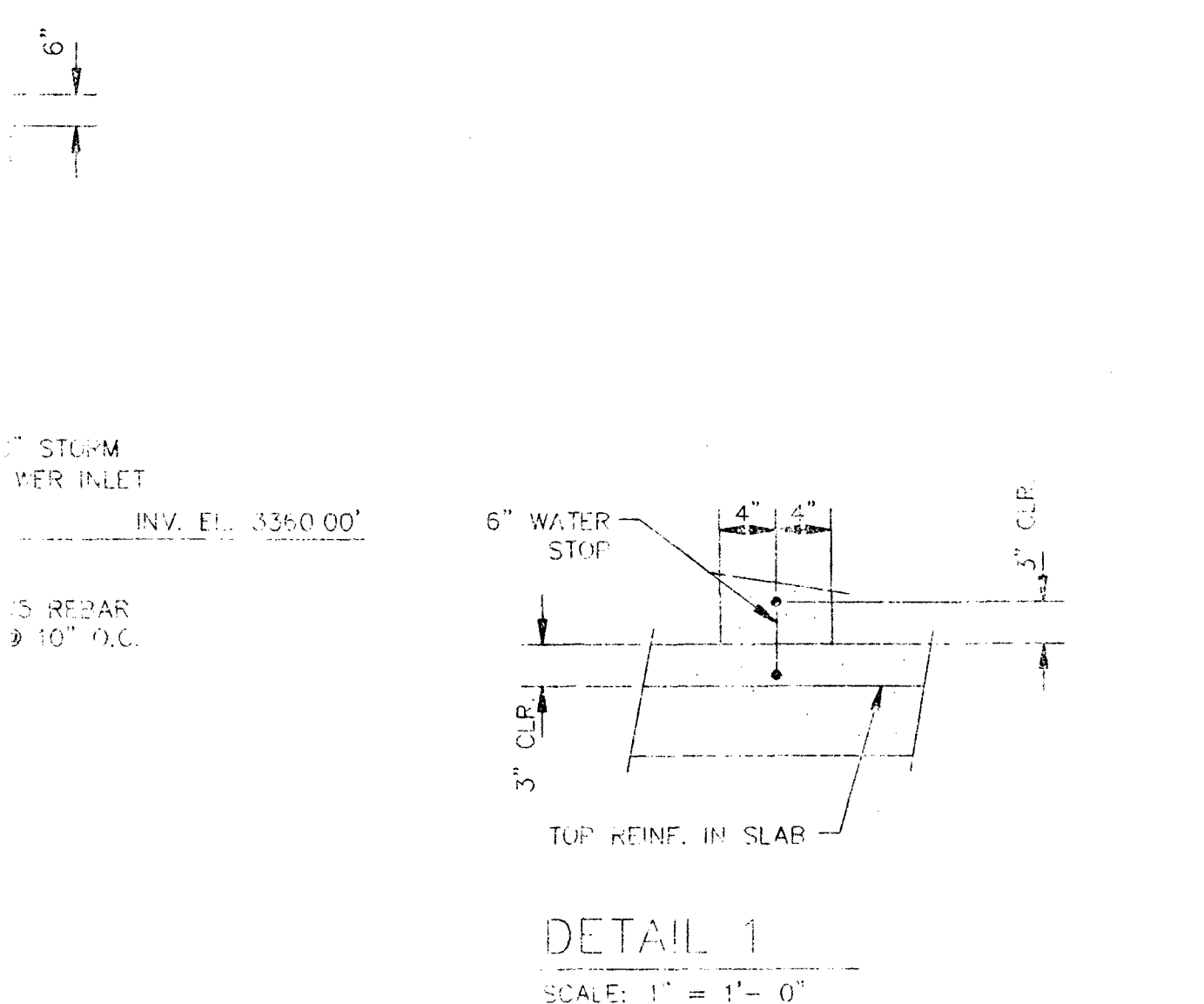
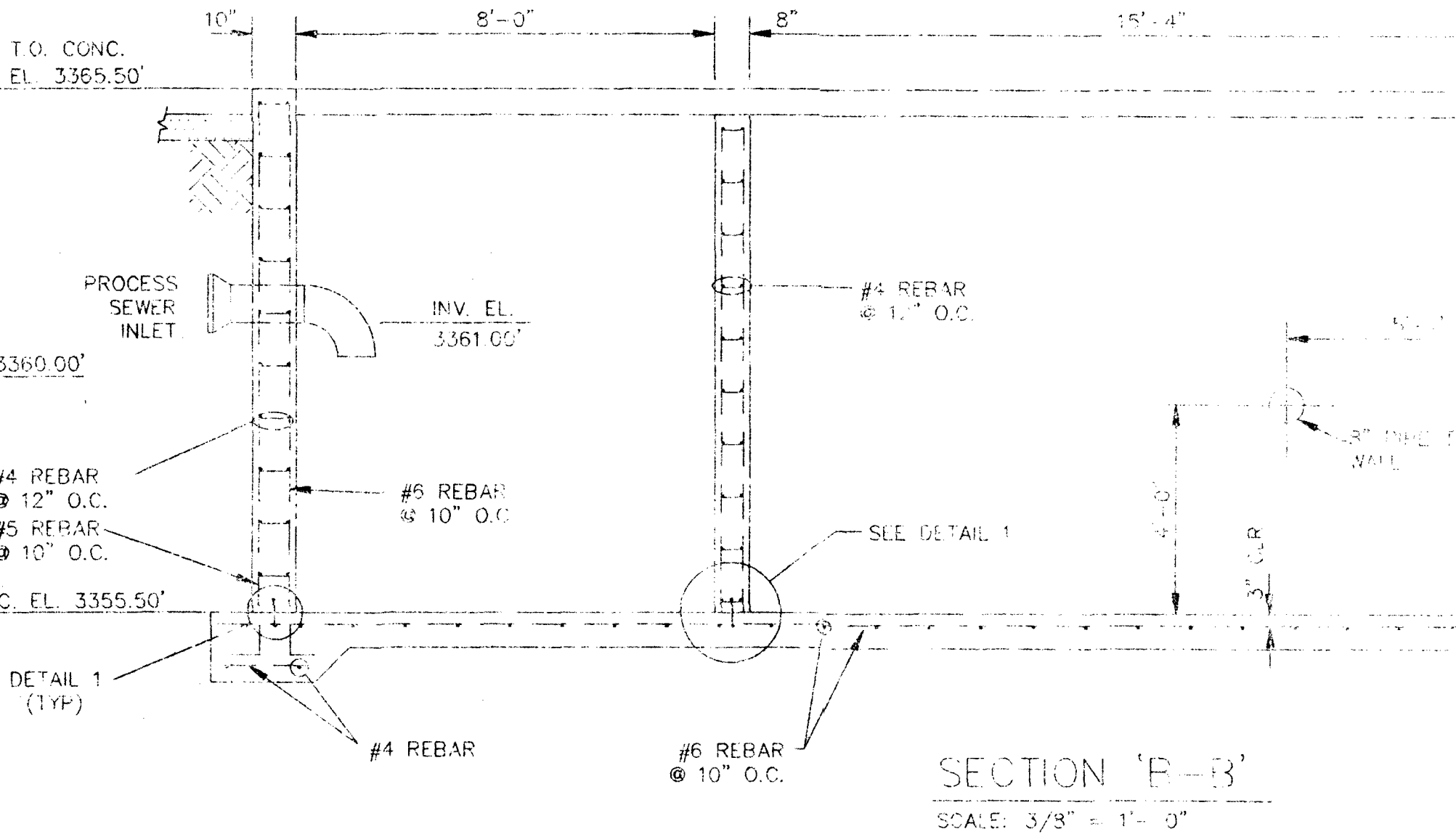
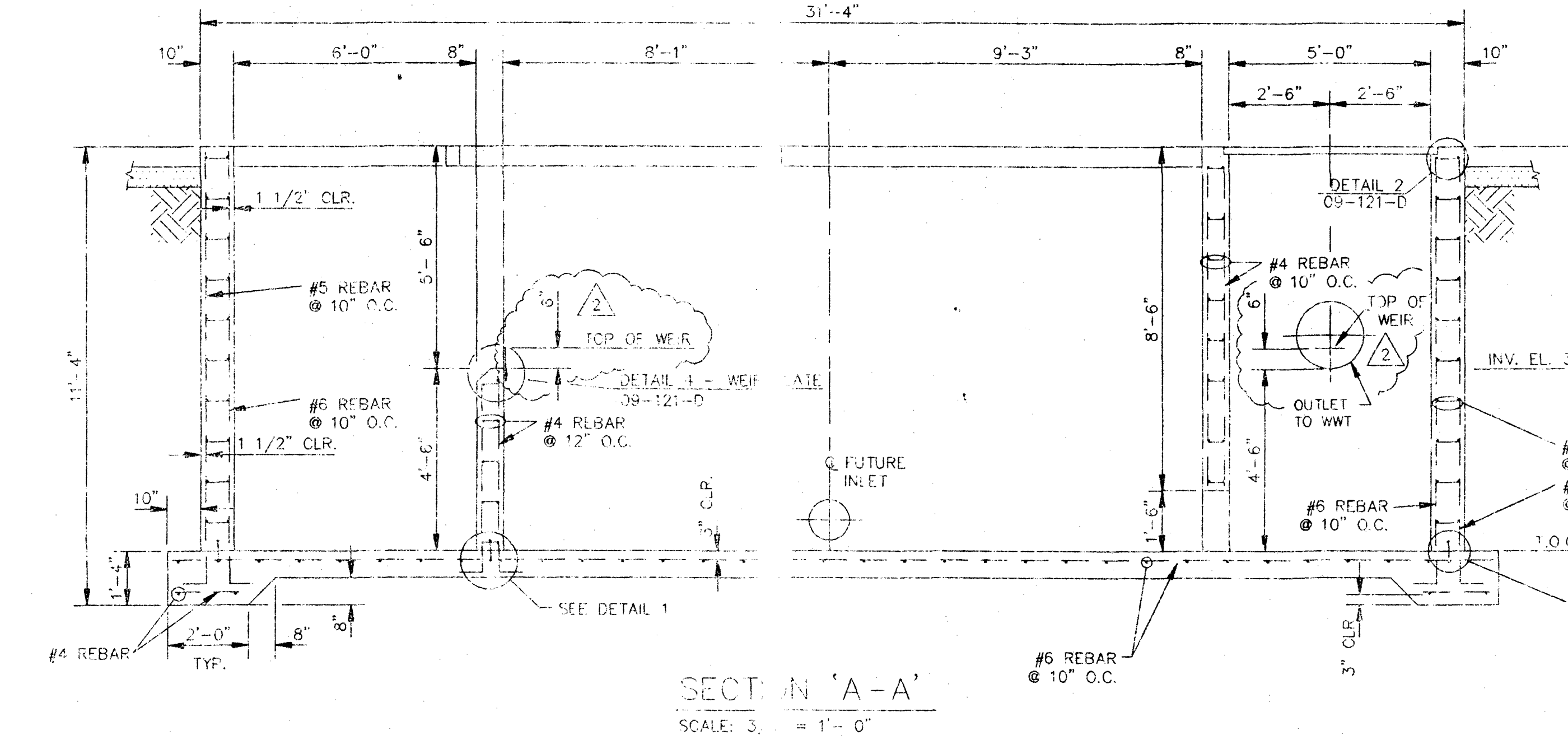
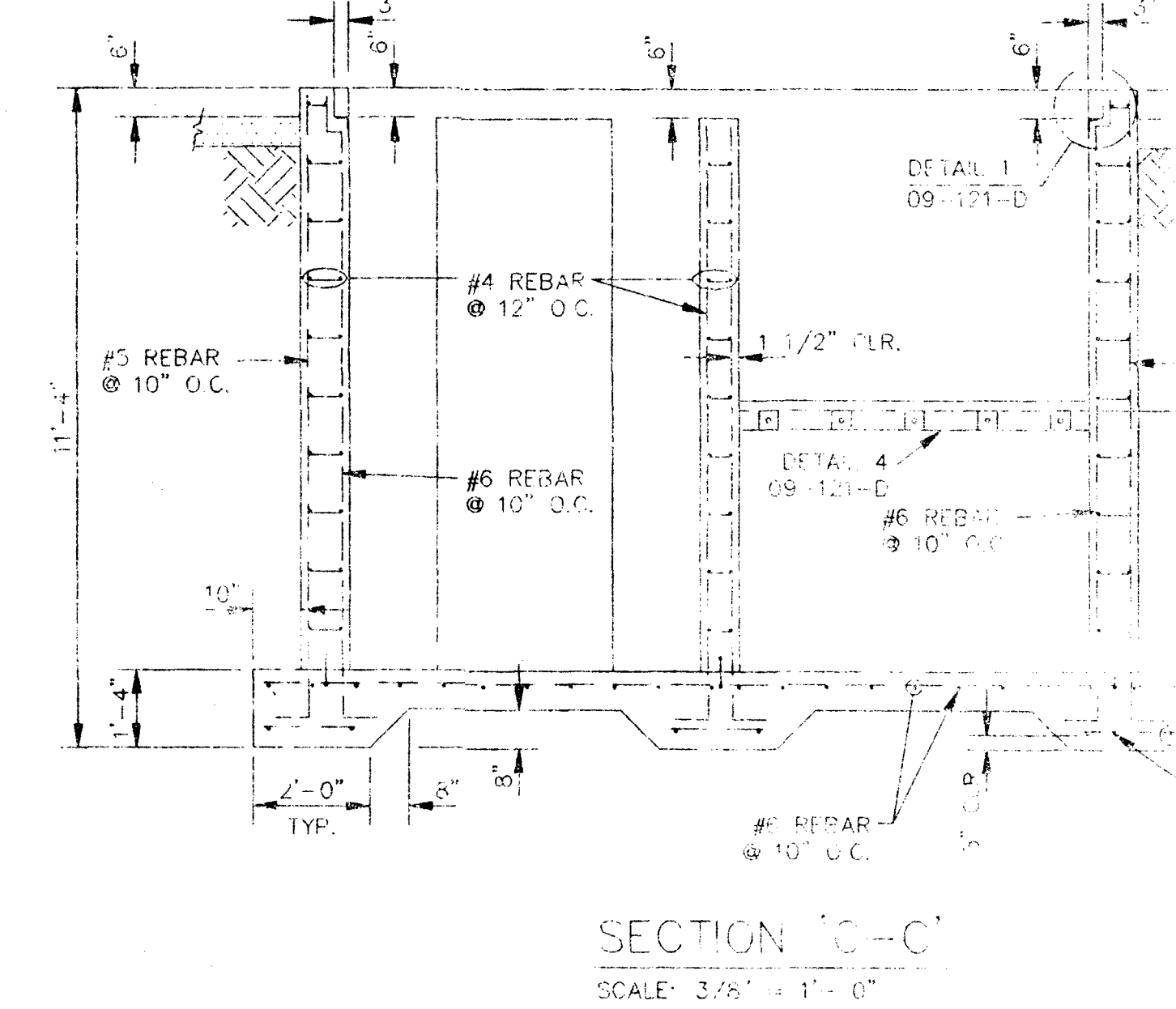
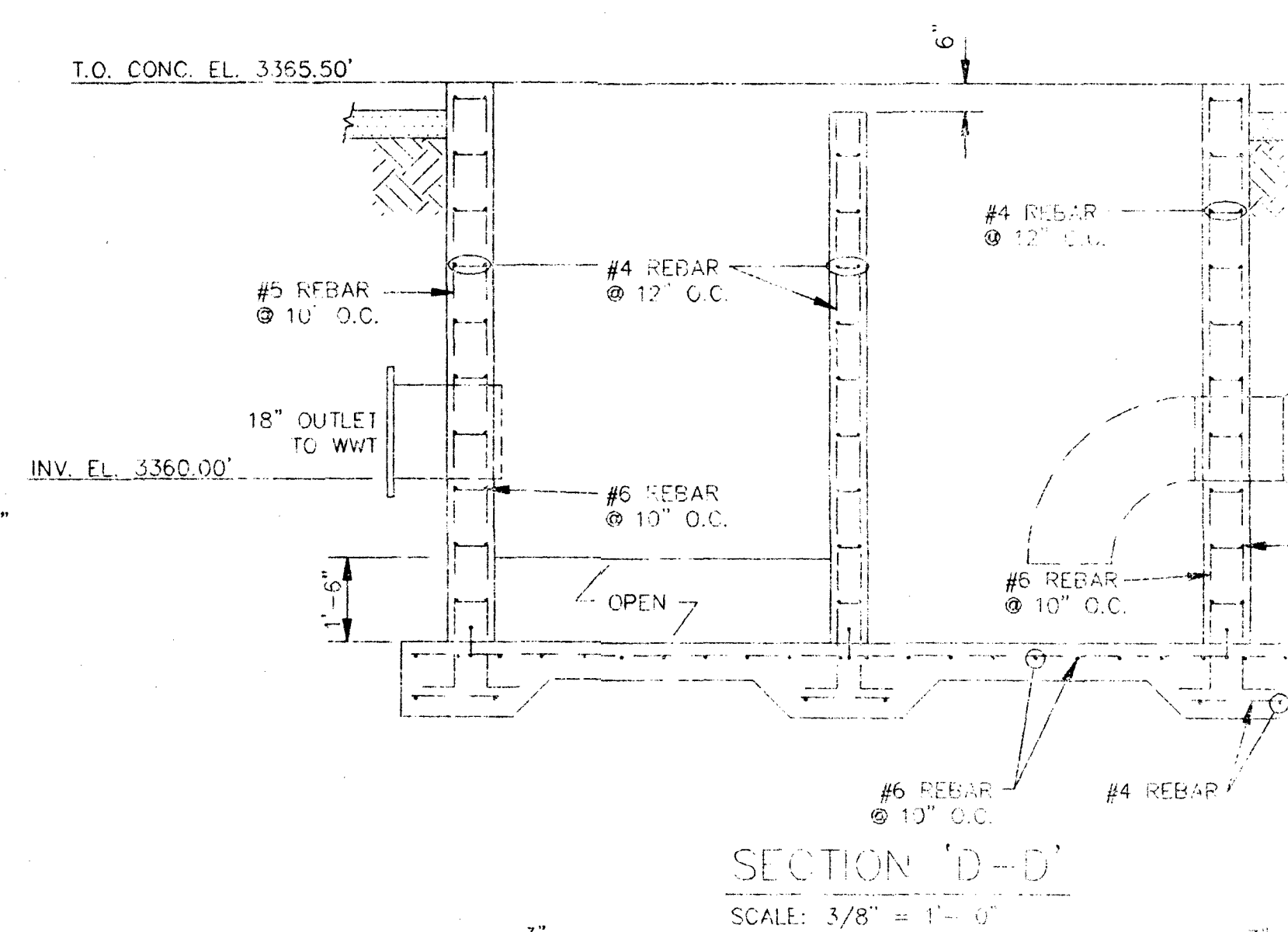
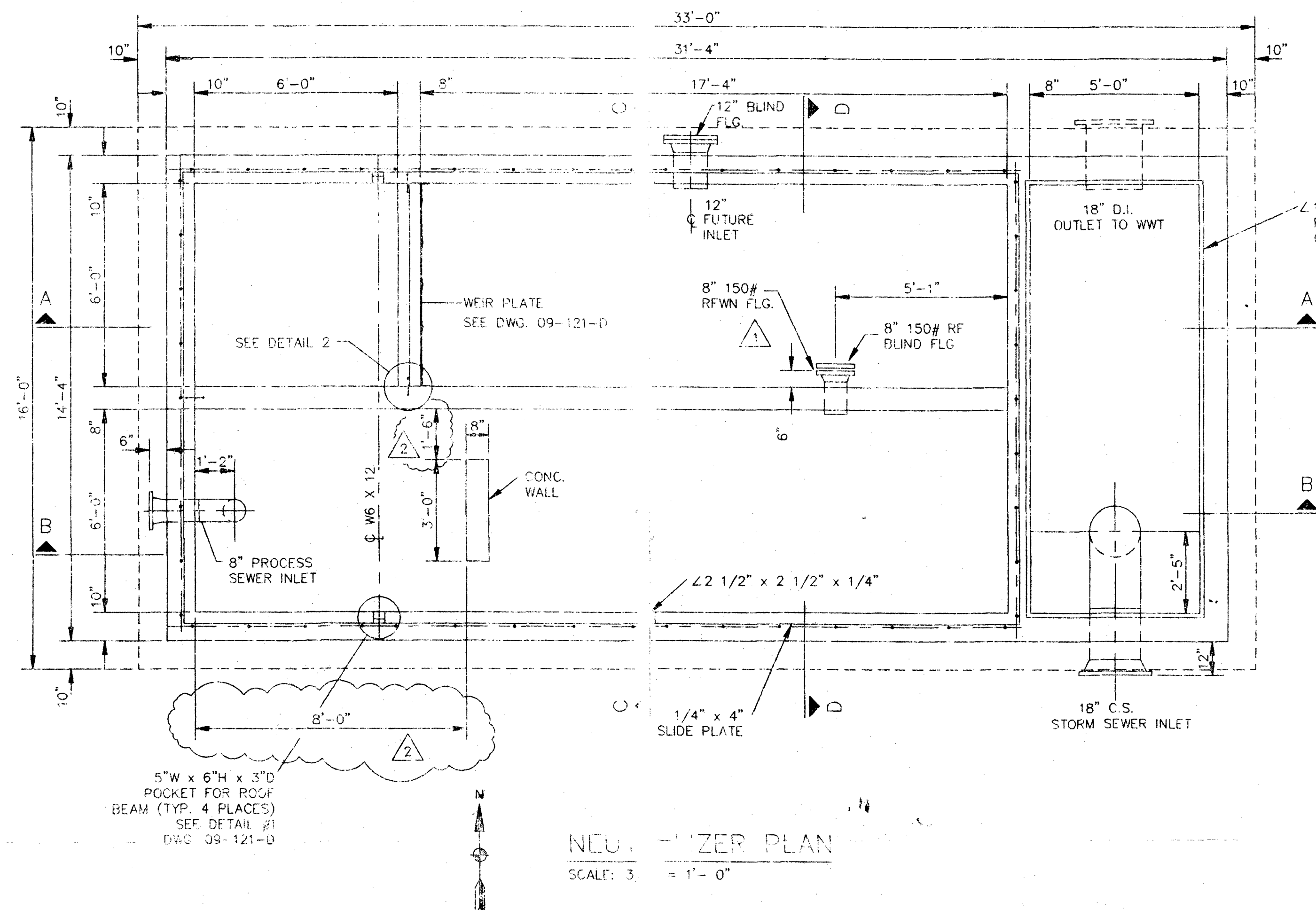
NOTES

REFERENCE DRAWINGS
09-Z-10-D EQUIPMENT SITE PLAN
09-Z-10-D-4 FOUNDATION PLAN - SHEET 4 OF 4
09-120-0 NEUTRALIZER PIT - PLAN & ELEVATIONS

NO.	REVISIONS	BY	CHK.	DATE	APPROVED	NO.	REVISIONS	BY	CHK.	DATE	APPROVED
2	REVISED PER NPL MODIFICATIONS					2	REVISED PER NPL MODIFICATIONS				
1	REVISED PER NPL MODIFICATIONS					1	REVISED PER NPL MODIFICATIONS				
0	ISSUED FOR CONSTRUCTION					0	ISSUED FOR CONSTRUCTION				
A	ISSUED FOR REVIEW					A	ISSUED FOR REVIEW				

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWING ROOM
ARTESIA, NEW MEXICO

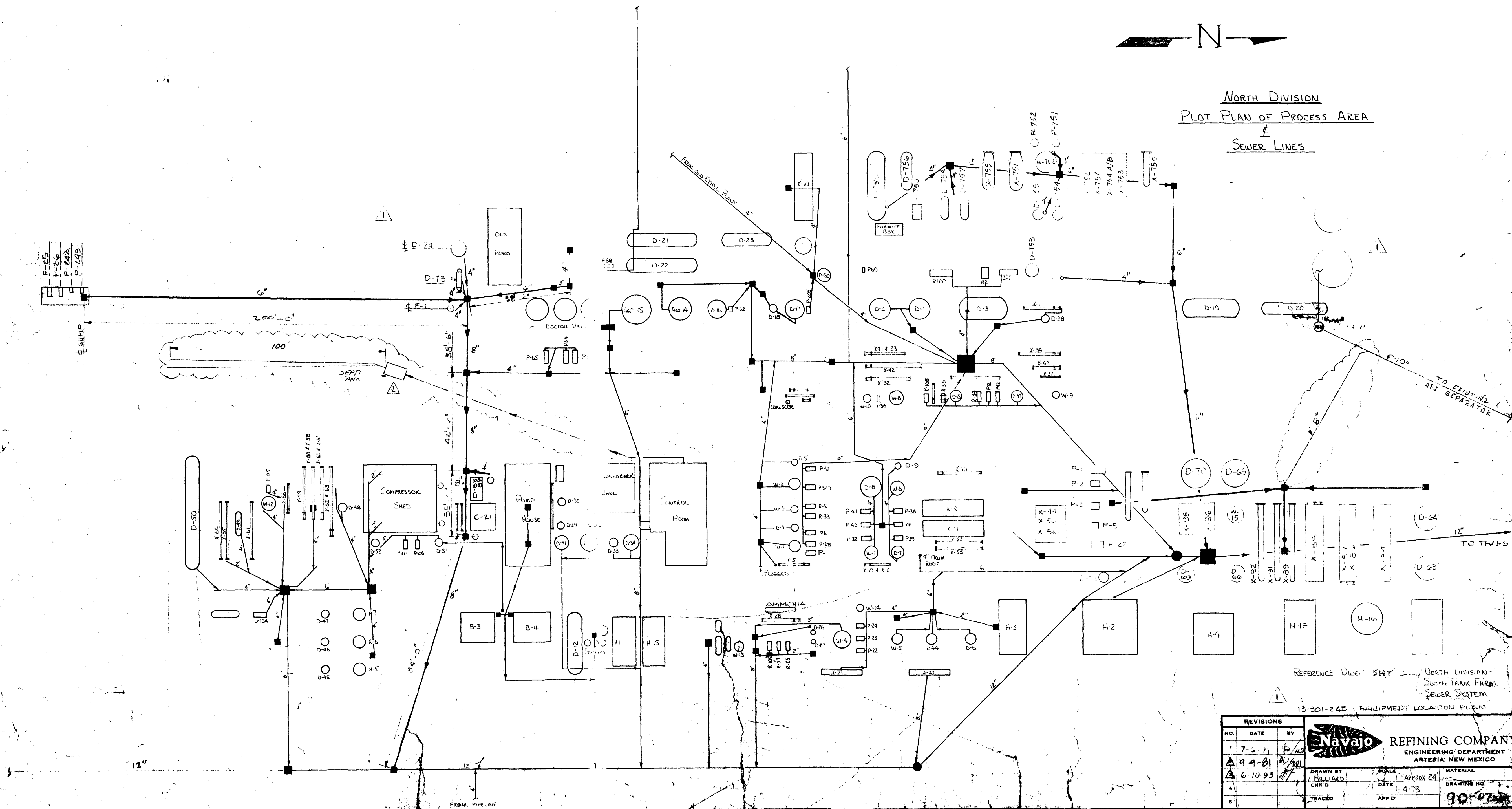
DRAWN BY S. ROCHA	DATE 03/10/91	APPROVED BY AS NOTED	REVISION NUMBER 09-121-0	REV 2
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NOTES		REFERENCE DRAWINGS		REVISIONS		BY		CHK		DATE		APPROV		NO.		REVISIONS		BY		CHK		DATE		APPROV		NO.	
1. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 P.S.I. AT 28 DAYS.		09-Z-100-10 EQUIPMENT SITE PLAN																									
2. ALL REINFORCING BARS SHALL BE AS PER DESIGNATION ASTM A-615, GRADE 60.		09-Z-100-11 FOUNDATION PLAN																									
3. BASIN SHALL BE COATED WITH A 2-PART H.F. ACID RESISTANT EPOXY AT A THICKNESS OF 5 MILS.		09-Z-100-12 SEWER PLAN																									
		09-121-00 NEUTRALIZER PIT - DETAILS																									
		09-E-100-10 ELECTRICAL POWER PLAN																									



NORTH DIVISION
PLOT PLAN OF PROCESS AREA
&
SEWER LINES

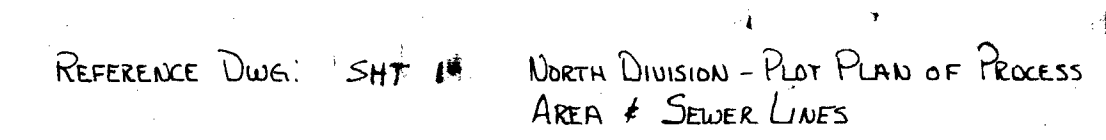


REFERENCE DWG. SHY 1 NORTH DIVISION
SOUTH TANK FARM
SEWER SYSTEM
13-301-245 - EQUIPMENT LOCATION PLAN

REVISIONS				DRAWN BY HILLIARD	DATE 1-4-73	SCALE AS SHOWN	MATERIAL
NO.	DATE	BY	REASON				
1	7-6-71	6/75					
2	9-9-81	6/75					
3	6-10-93	6/75					

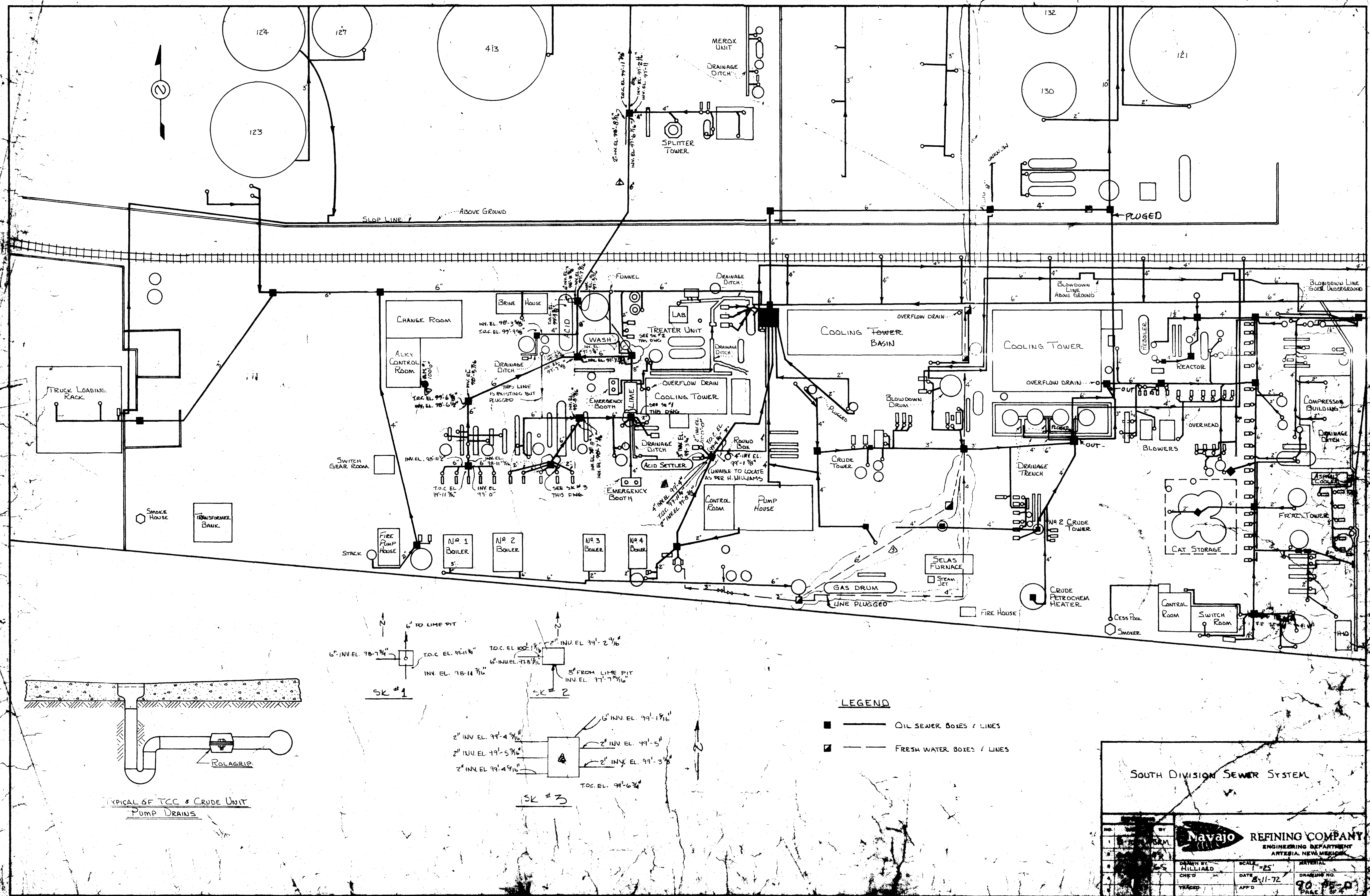
TRACED	APP'D	DRAWING NO. 90-075
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MAY 15 2002

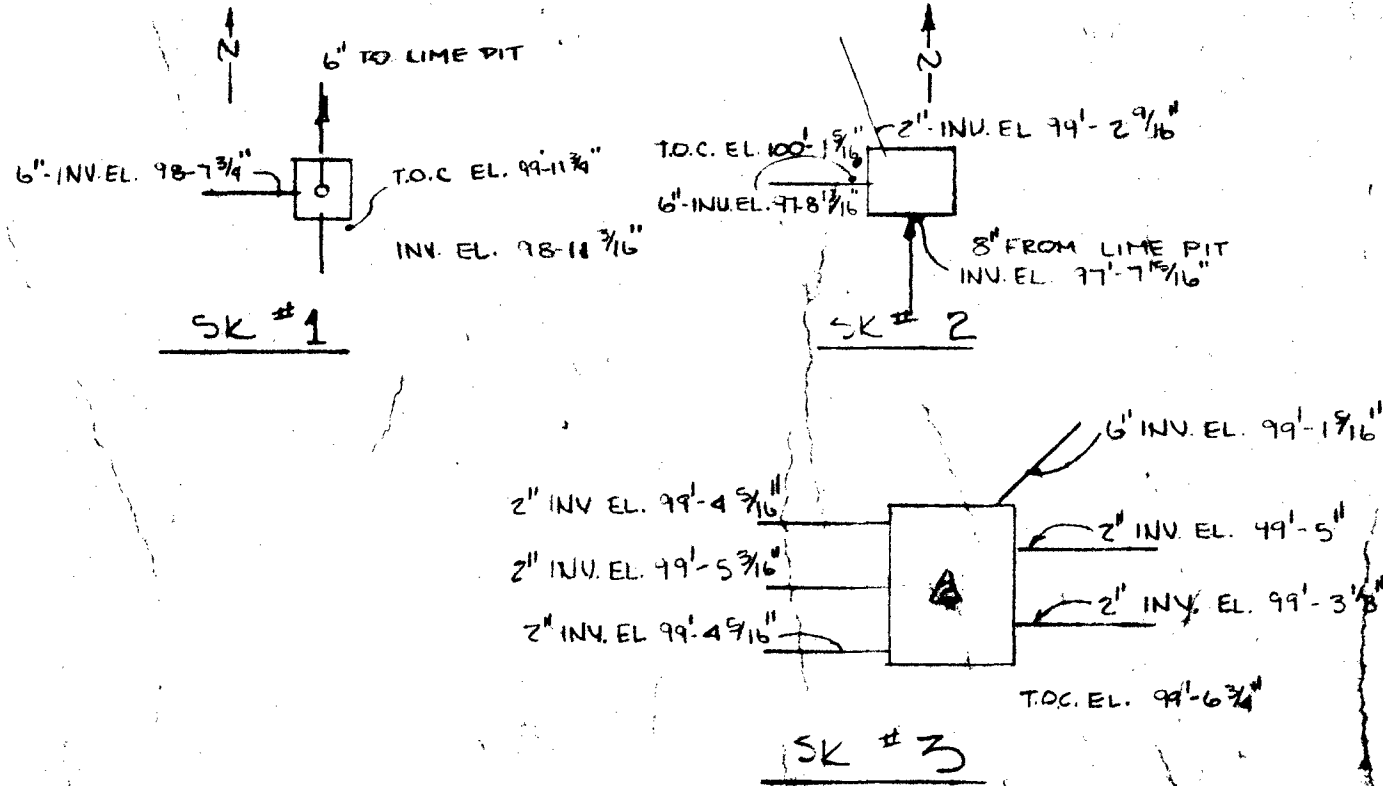


NORTH DIVISION SOUTH TANK FARM - SEWER SYSTEM																				
REVISIONS <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5-26-79</td> <td>JAS</td> </tr> <tr> <td>2</td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> </tr> </tbody> </table>			NO.	DATE	BY	1	5-26-79	JAS	2			3			4			5		
NO.	DATE	BY																		
1	5-26-79	JAS																		
2																				
3																				
4																				
5																				
 REFINING COMPANY ENGINEERING DEPARTMENT ARTERIA, NEW MEXICO																				
<table border="1" style="width: 100%;"> <tr> <td style="width: 33%;"> DRAWN BY HILLIARD CH'D TRACED </td> <td style="width: 33%;"> SCALE 1" = APPROX. 25' DATE 1-11-73 APP'D </td> <td style="width: 33%;"> MATERIAL DRAWING NO. </td> </tr> </table>			DRAWN BY HILLIARD CH'D TRACED	SCALE 1" = APPROX. 25' DATE 1-11-73 APP'D	MATERIAL DRAWING NO.															
DRAWN BY HILLIARD CH'D TRACED	SCALE 1" = APPROX. 25' DATE 1-11-73 APP'D	MATERIAL DRAWING NO.																		

MAY 15 2002



TYPICAL OF TCC & CRUDE UNIT
PUMP DRAINS

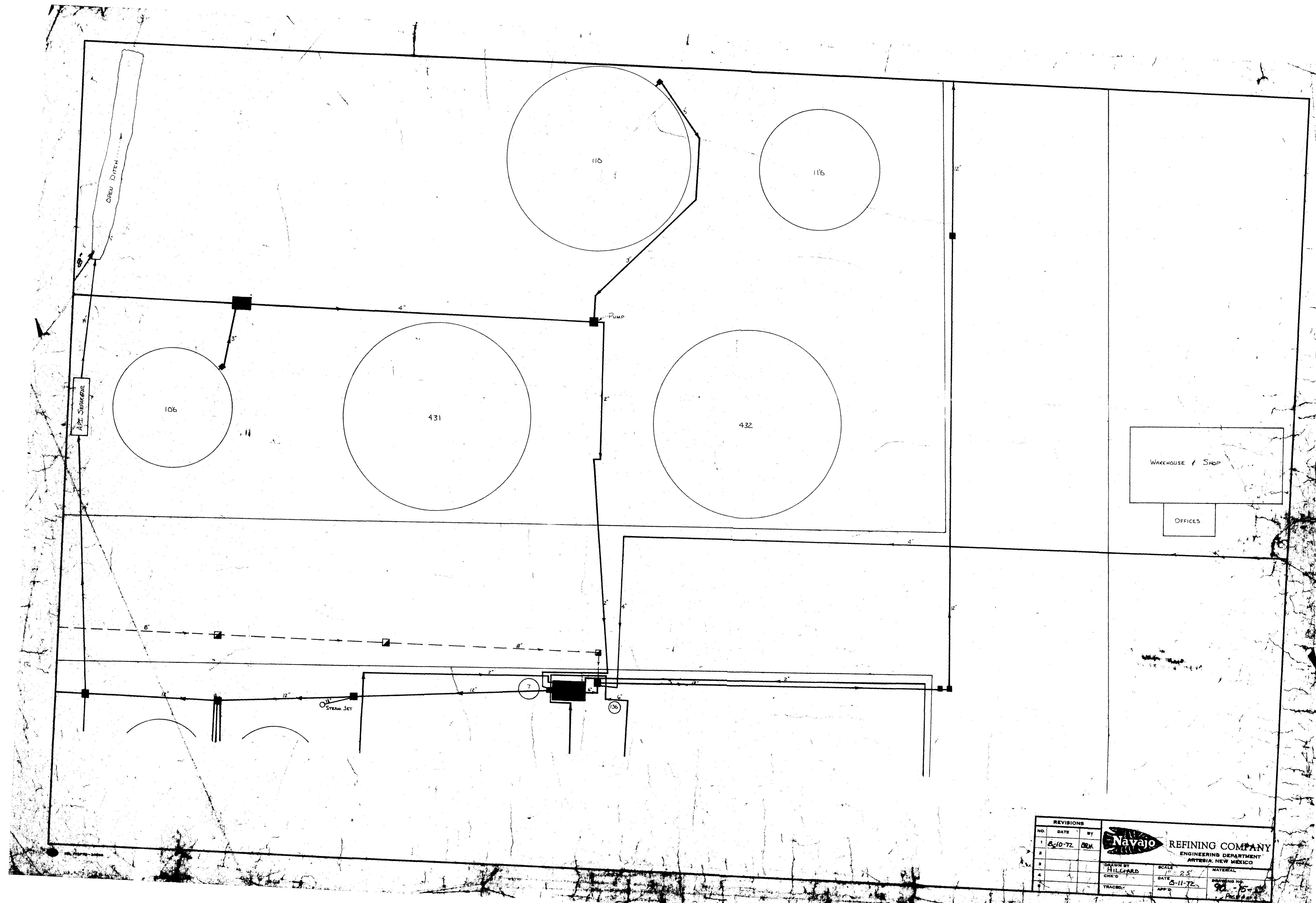


LEGEND

- OIL SEWER BOXES & LINES
- - - FRESH WATER BOXES & LINES

SOUTH DIVISION SEWER SYSTEM

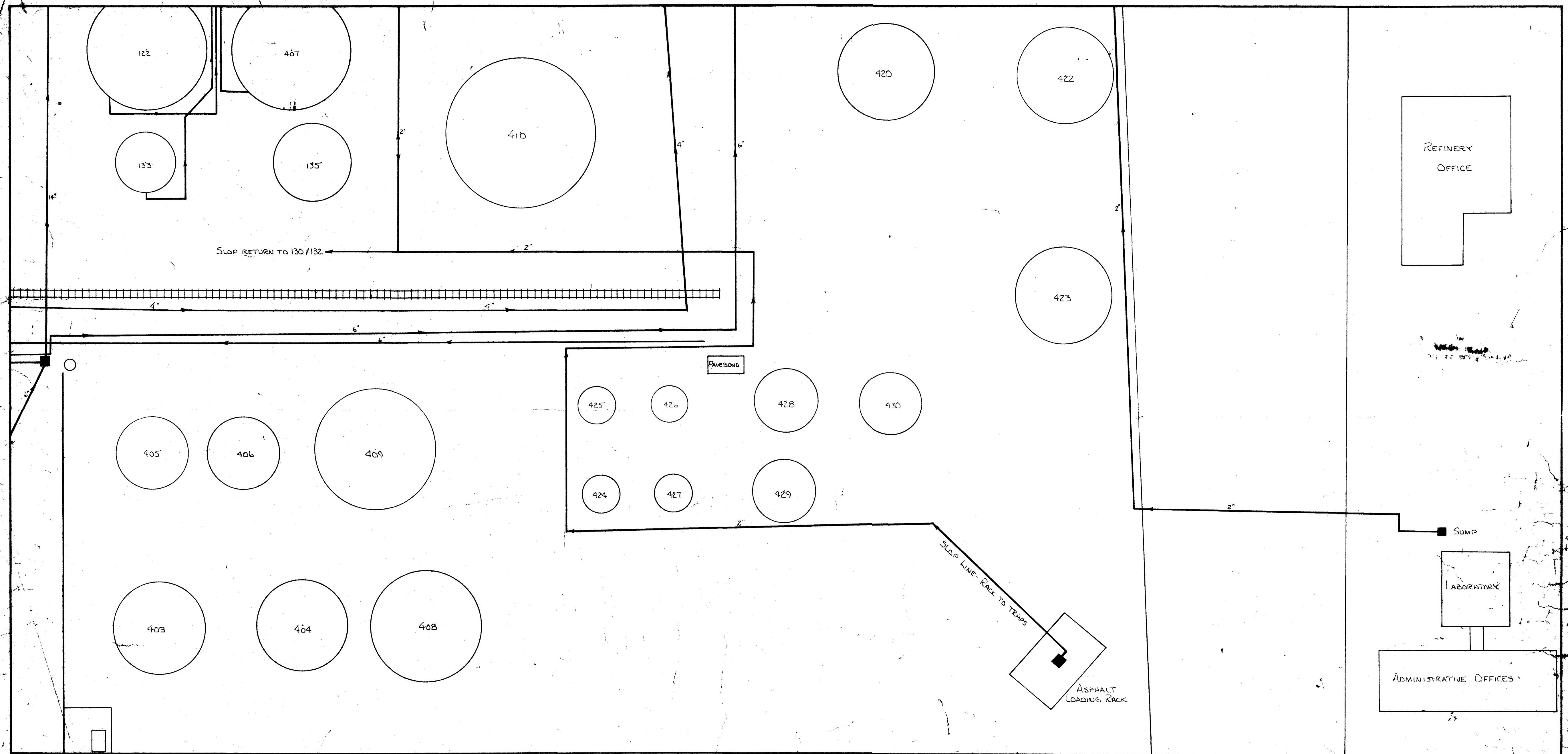
Navajo REFINING COMPANY ENGINEERING DEPARTMENT ARTERIA, NEW MEXICO	
DRAWN BY MILLIARD CHECKED DATE 8/11/72 TRACED APP'D	SCALE 1"=25' DRAWING NO. 92-15-0 PAGE 1 OF 1



REVISIONS			DRAWN BY	SCALE	DATE	MATERIAL
NO.	DATE	BY				
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2			CHKD			
3			TRACED			
4						
5						

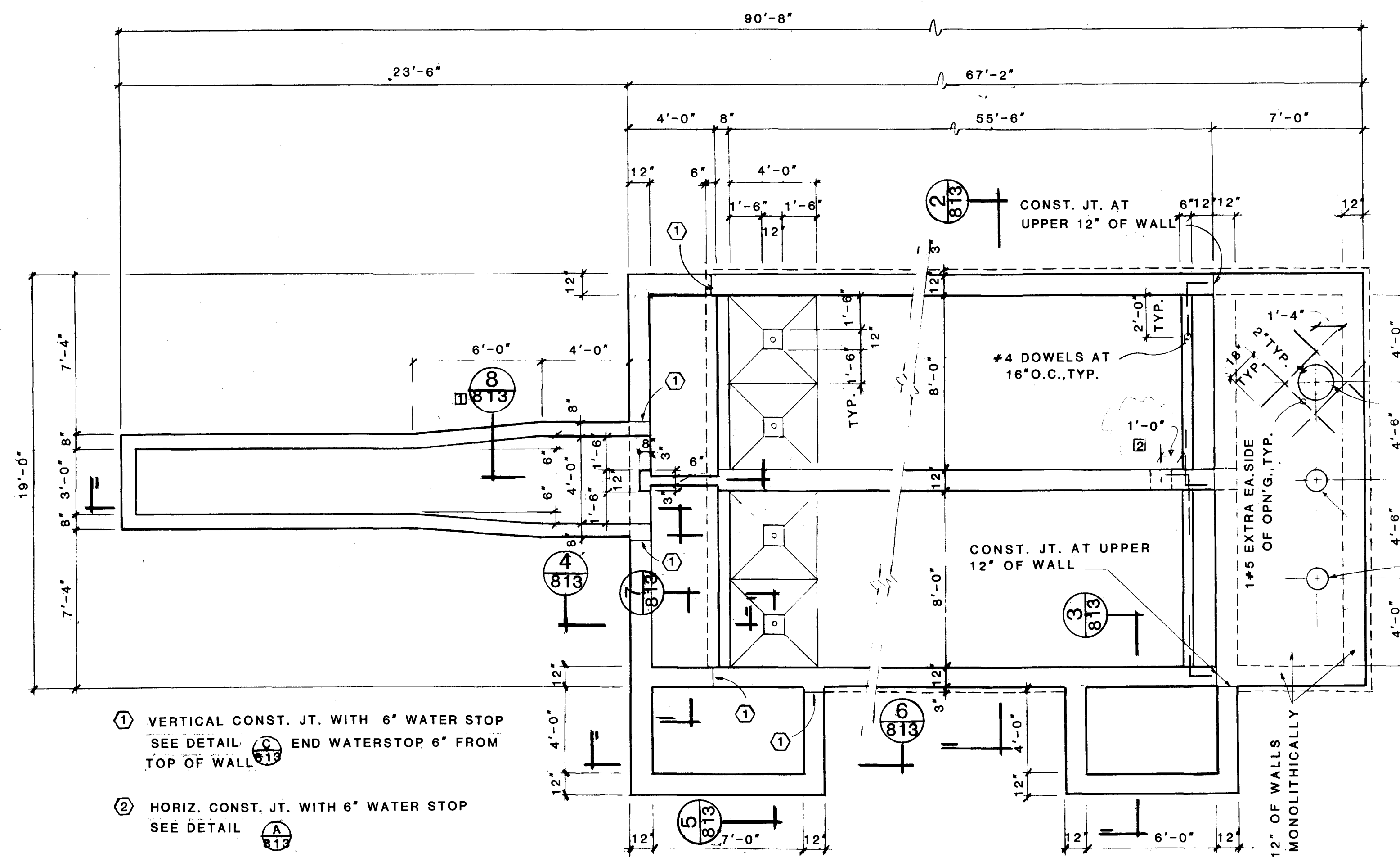
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTERIA, NEW MEXICO

DRAWING NO. 90-15-10
PAGE 1 OF 1



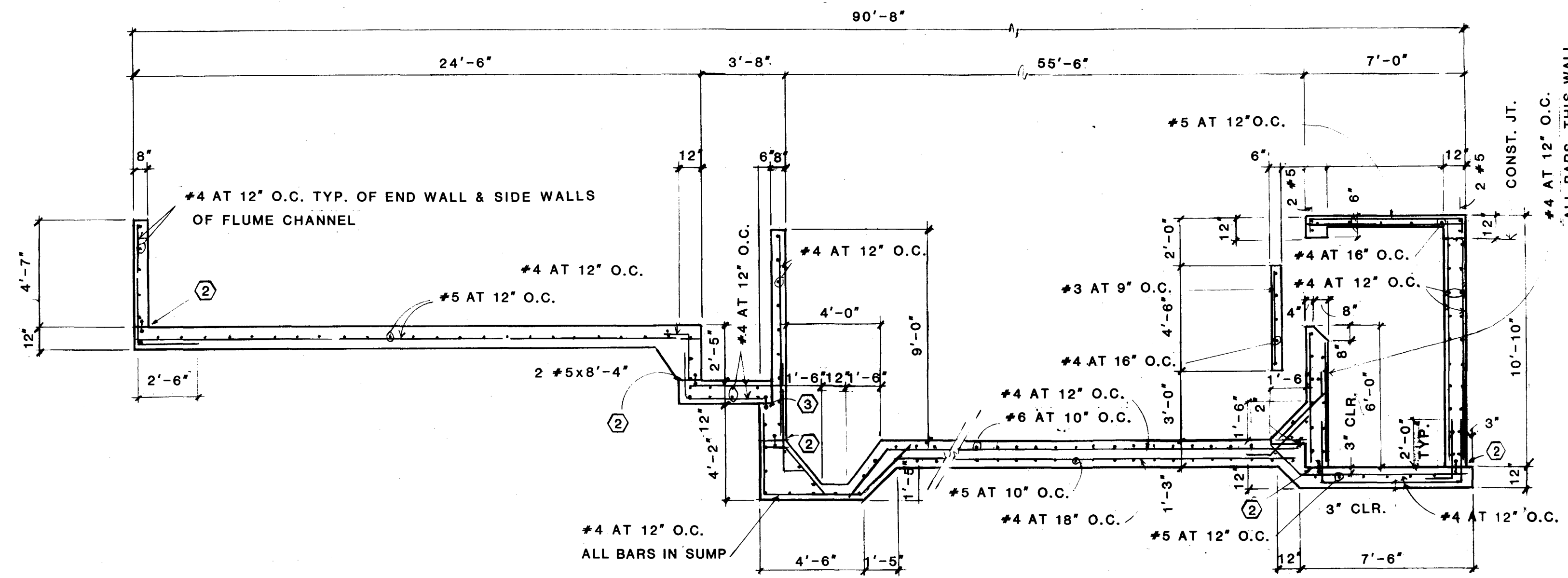
REVISIONS			 Navajo REFINING COMPANY ENGINEERING DEPARTMENT ARTESIA, NEW MEXICO		
NO.	DATE	BY			
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2			CHIEF	1"=25'	9023
3			DATE	APPROVED	
4			TRACED		
5					

MAY 13 1973



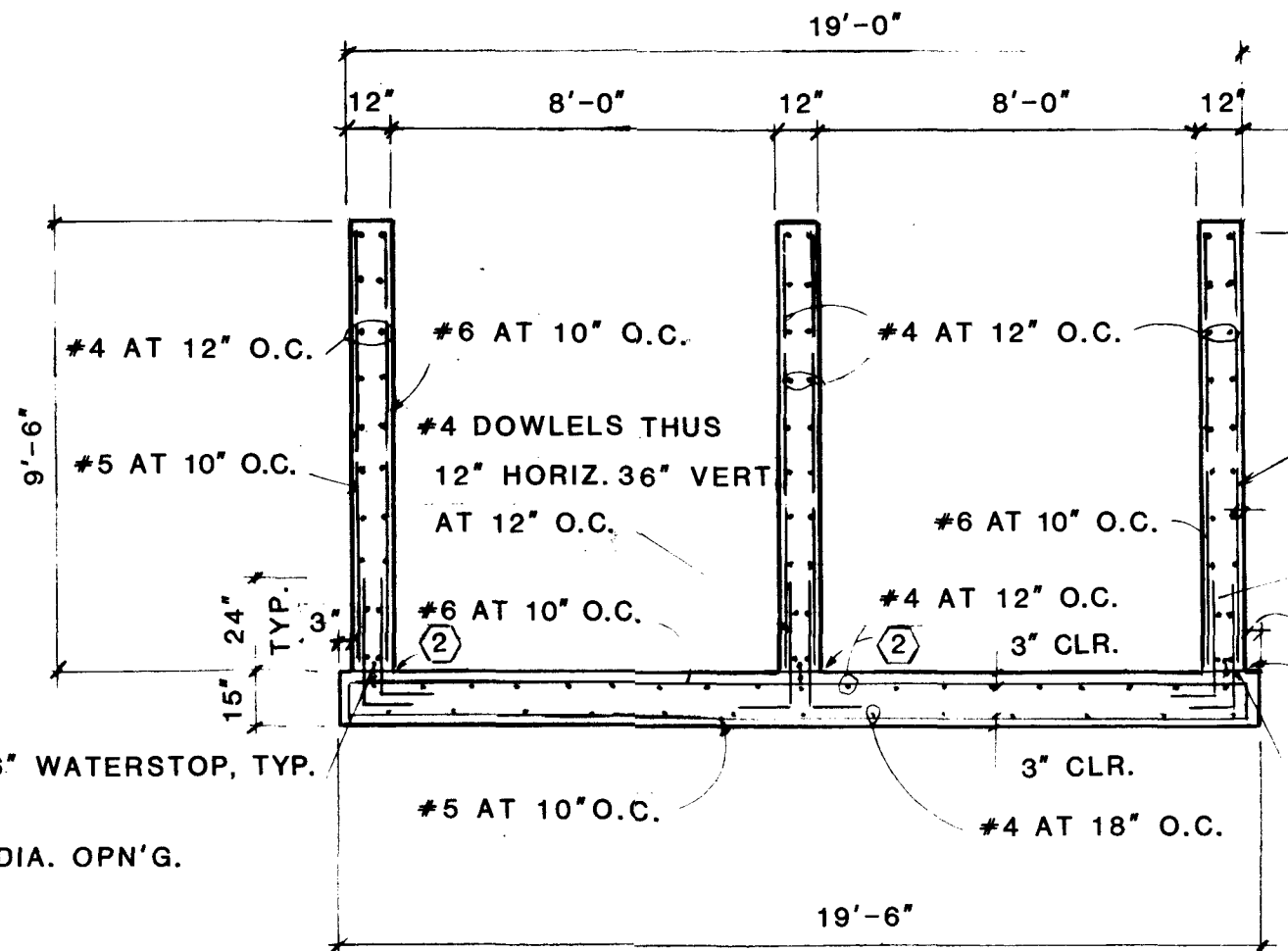
PLAN
SCALE: 1/4" 1'-0"

- ① VERTICAL CONST. JT. WITH 6" WATER STOP
SEE DETAIL 813 END WATERSTOP 6" FROM
TOP OF WALL
- ② HORIZ. CONST. JT. WITH 6" WATER STOP
SEE DETAIL 813
- ③ SPECIAL HORIZ. CONST. JT. WITH 6" WATER STOP
SEE DETAIL 813

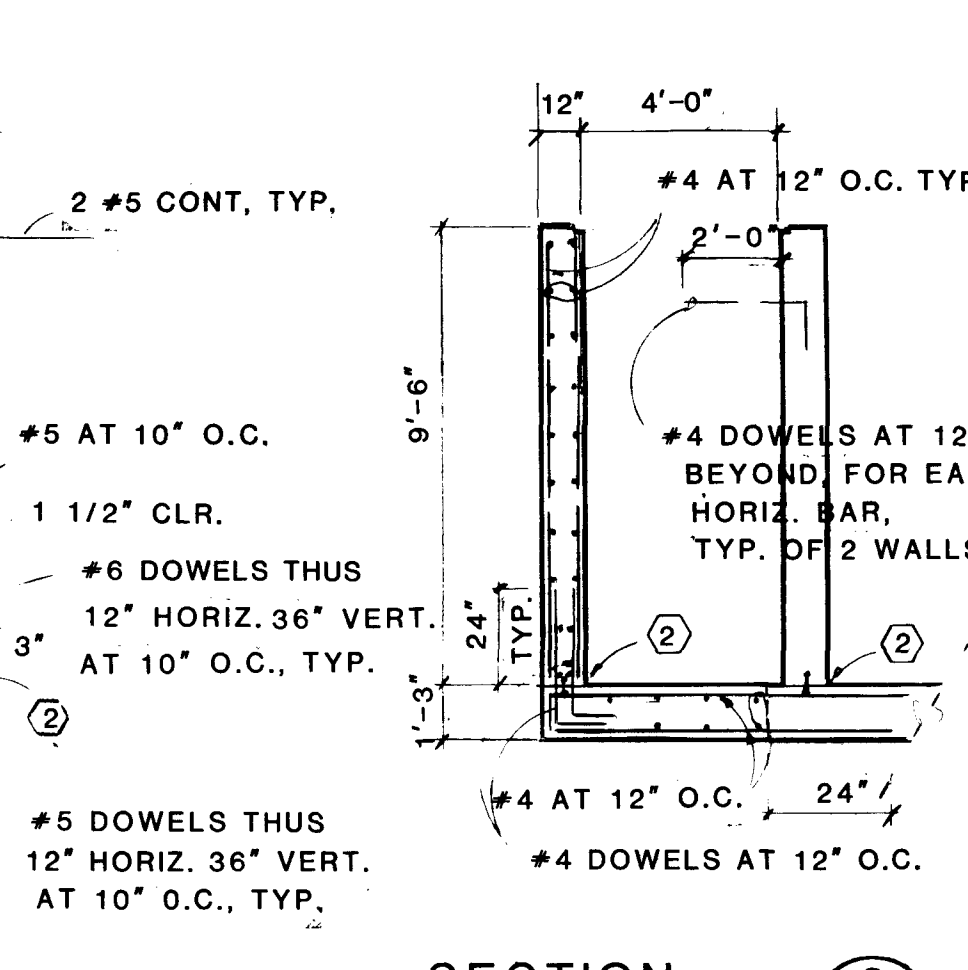


SECTION 1
SCALE: 1/4" 1'-0"

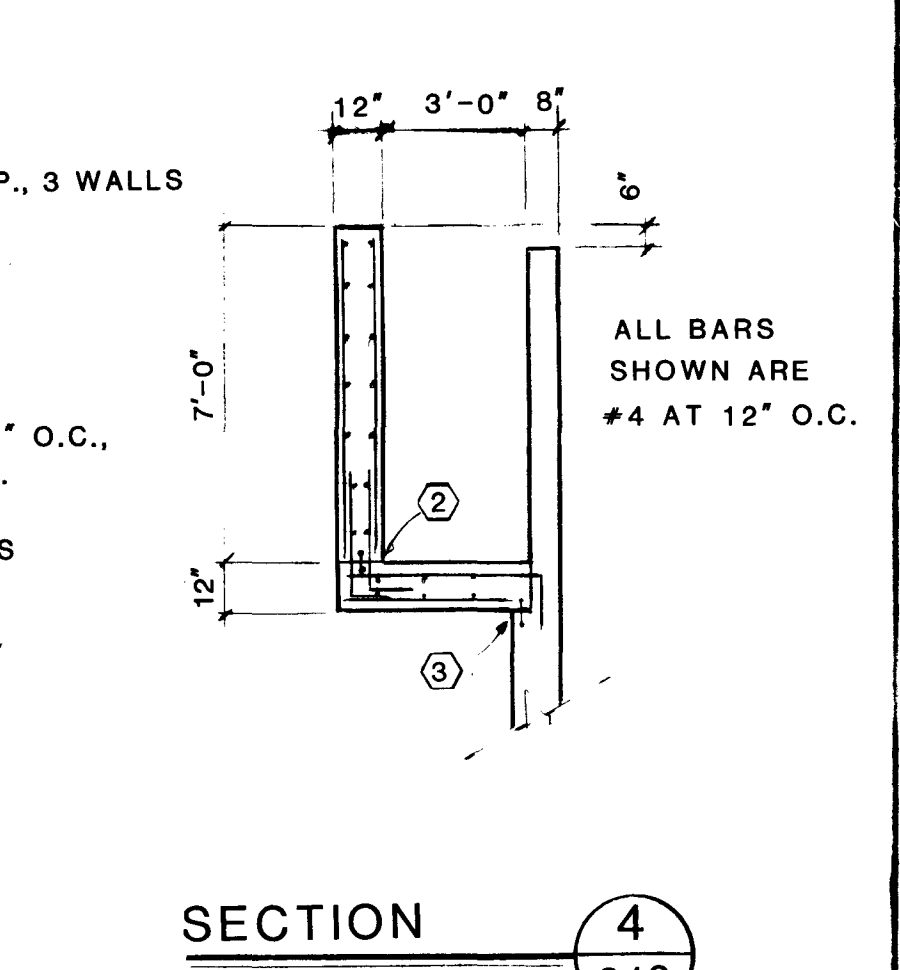
ALL BARS, THIS WALL
#4 AT 12" O.C.



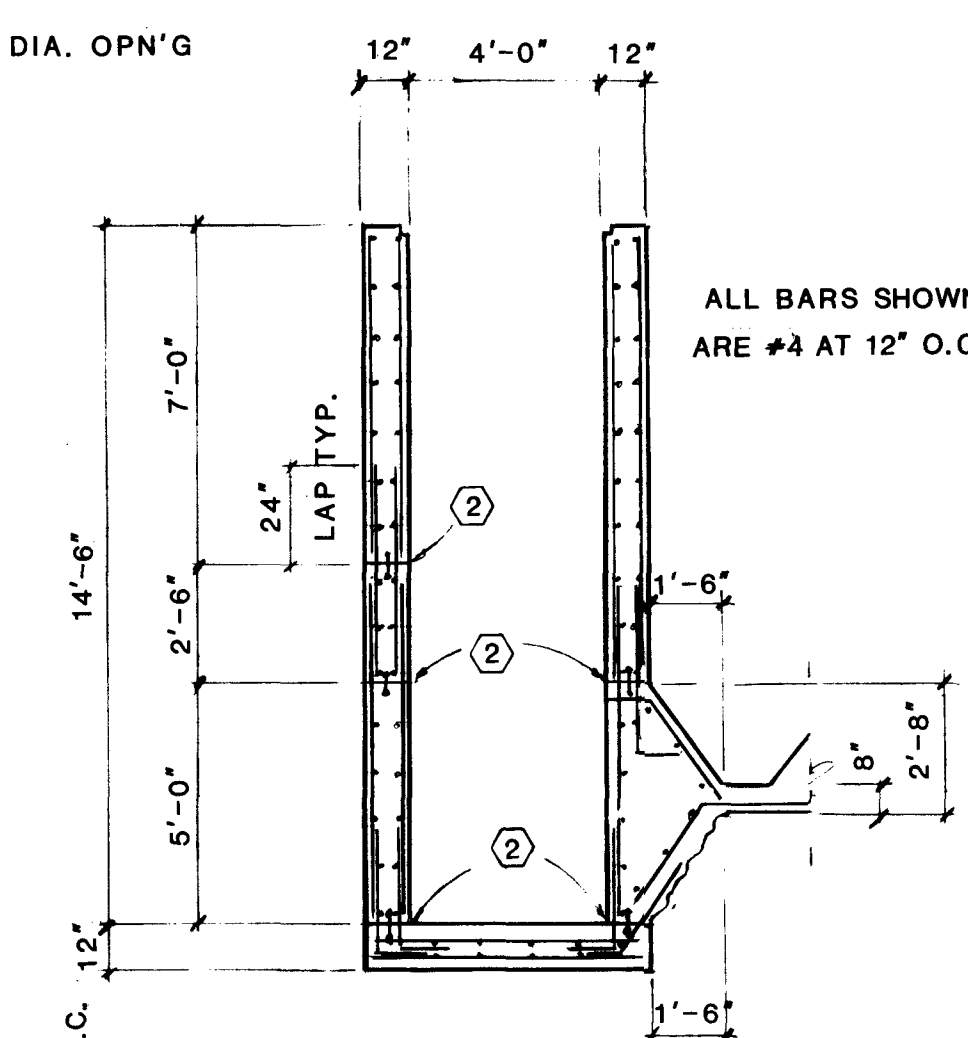
SECTION 2
SCALE: 1/4" 1'-0"



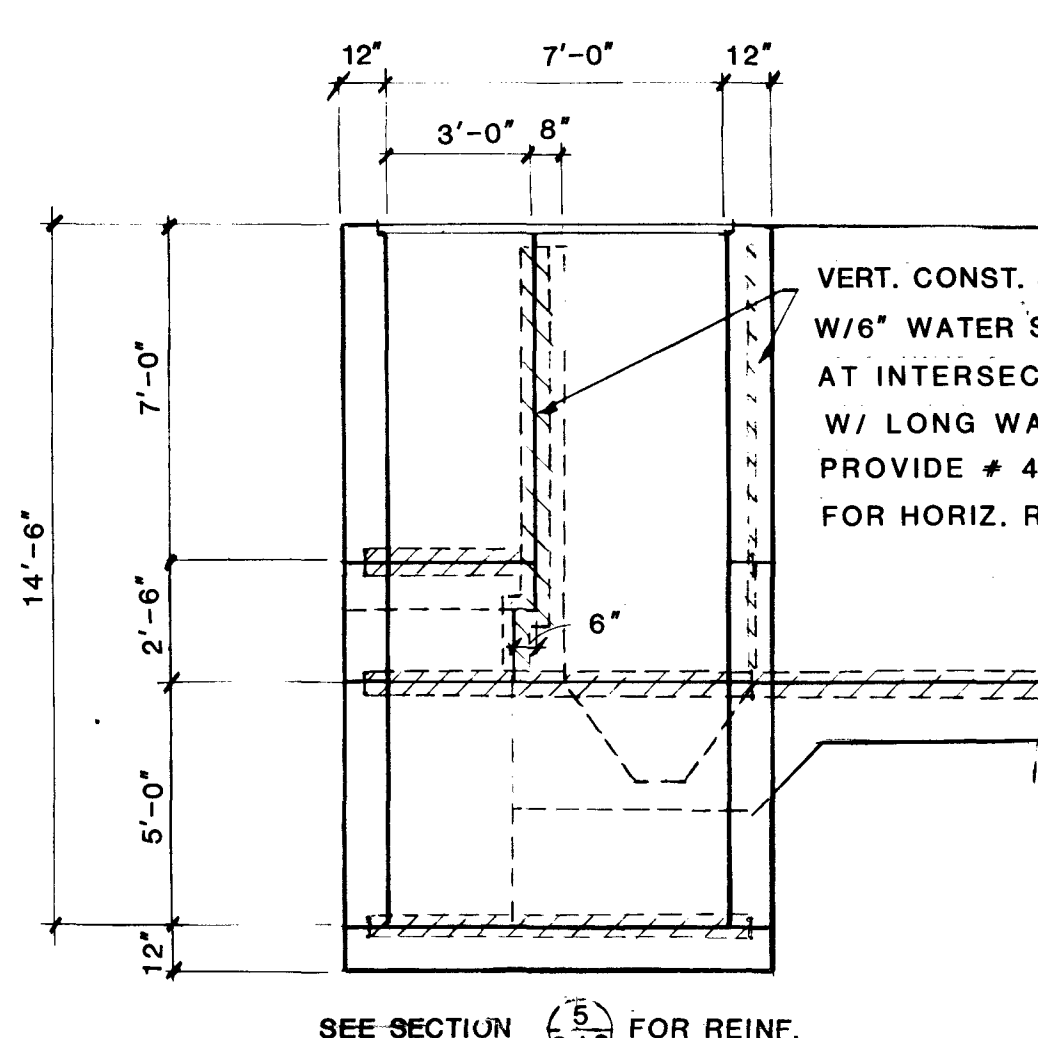
SECTION 3
SCALE: 1/4" 1'-0"



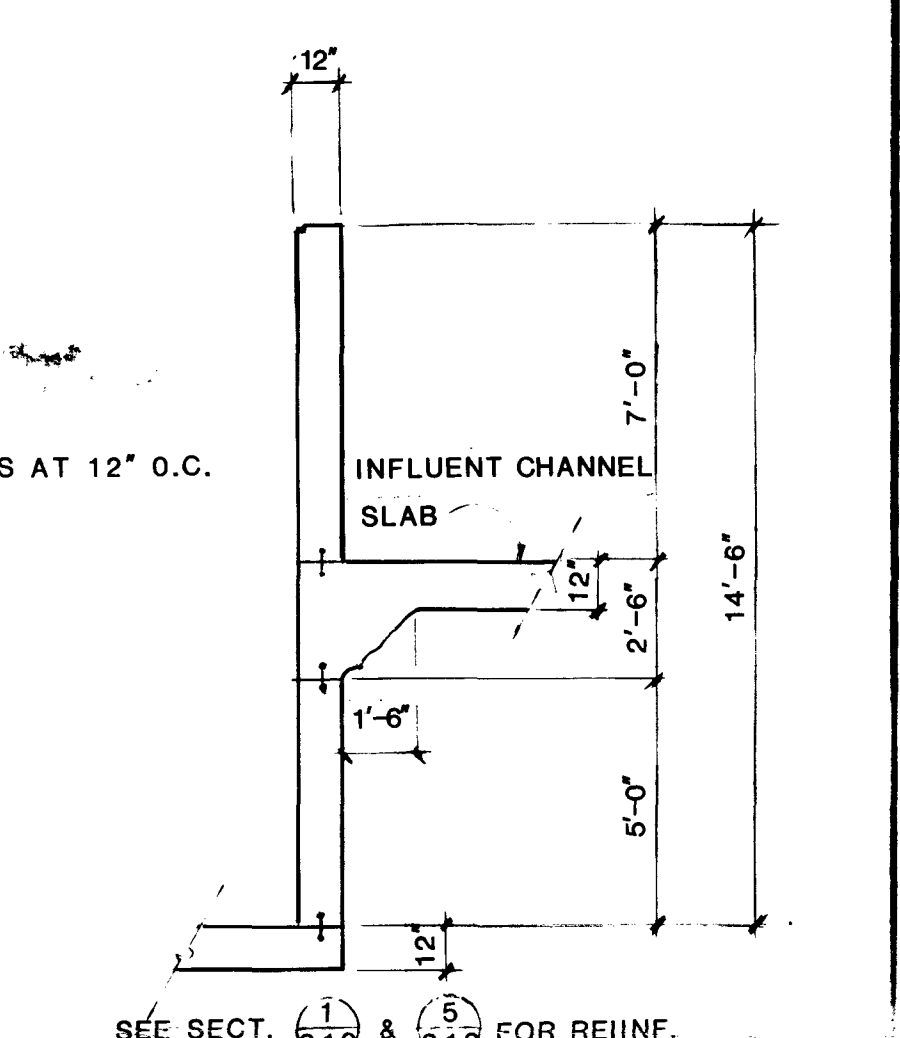
SECTION 4
SCALE: 1/4" 1'-0"



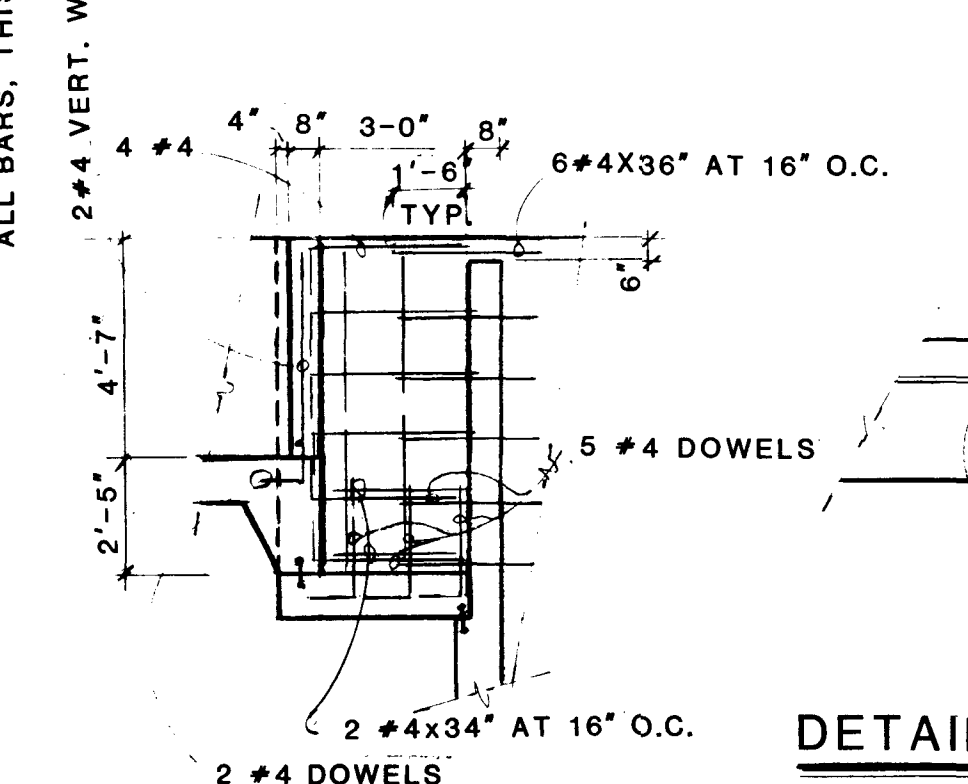
SECTION 5
SCALE: 1/4" 1'-0"



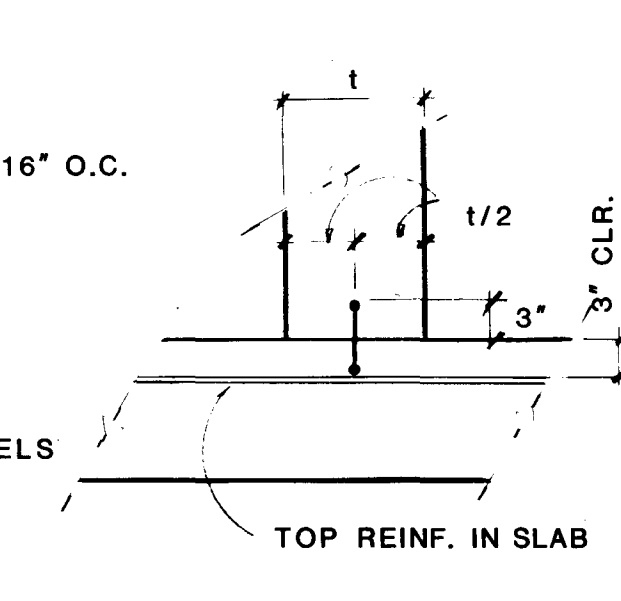
SECTION 6
SCALE: 1/4" 1'-0"



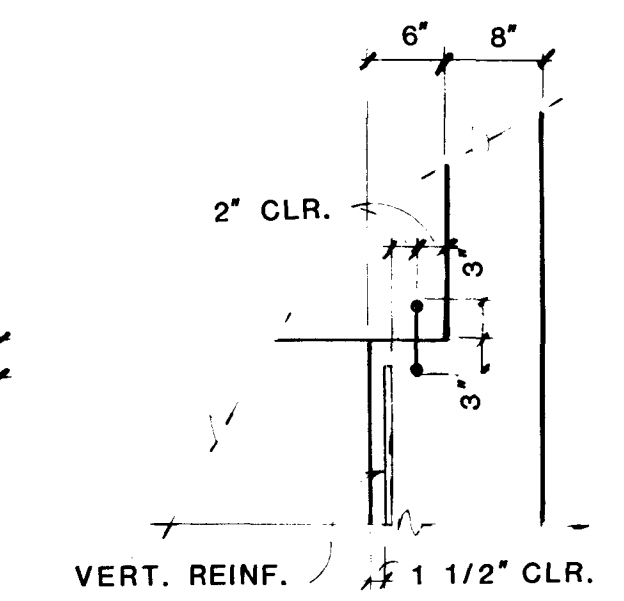
SECTION 7
SCALE: 1/4" 1'-0"



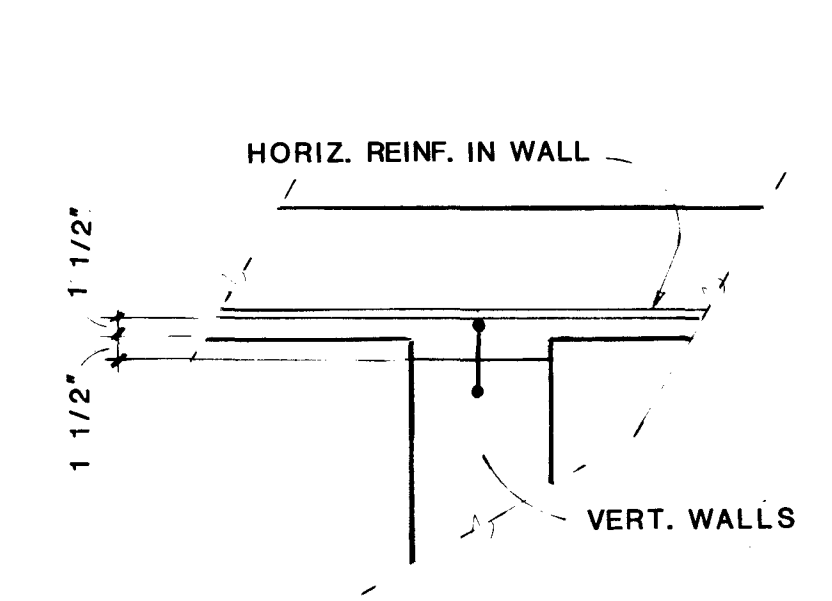
SECTION 8
SCALE: 1/4" 1'-0"



DETAIL A
SCALE: 3/4" 1'-0"



DETAIL B
SCALE: 3/4" 1'-0"



DETAIL C
SCALE: 3/4" 1'-0"

NOTES

- 1. SEE "MISCELLANEOUS DETAILS" SHEET 815 FOR EXTRA
CORNER REINFORCEMENT REQUIREMENTS AND
GENERAL NOTES
- 2. WATER STOPS ARE REQUIRED ON ALL
CONSTRUCTION JOINTS

REFERENCE DRAWINGS

- 808 - PLANT PROCESS PIPING SOUTH
- 812 - API SEPARATOR
- 815 - MISCELLANEOUS DETAILS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.	DRAWING TITLE
1	CORRECTED SECTION LINE	SR		5/2/87										PRIMARY
2	ADDED WALL SLEEVE LOCATION	SR		5/7/87										WASTEWATER TREATMENT PLANT
														API SEPARATOR
														STRUCTURAL

PSC Parkhill, Smith & Cooper, Inc.
Engineers - Architects - Planners
810 E. Yandell, El Paso, Texas 79902

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	AS SHOWN
RRM	RWR		
DATE	DATE	DRAWING NO.	REV.
2/18/87	2/18/87	80-1-D-2	2