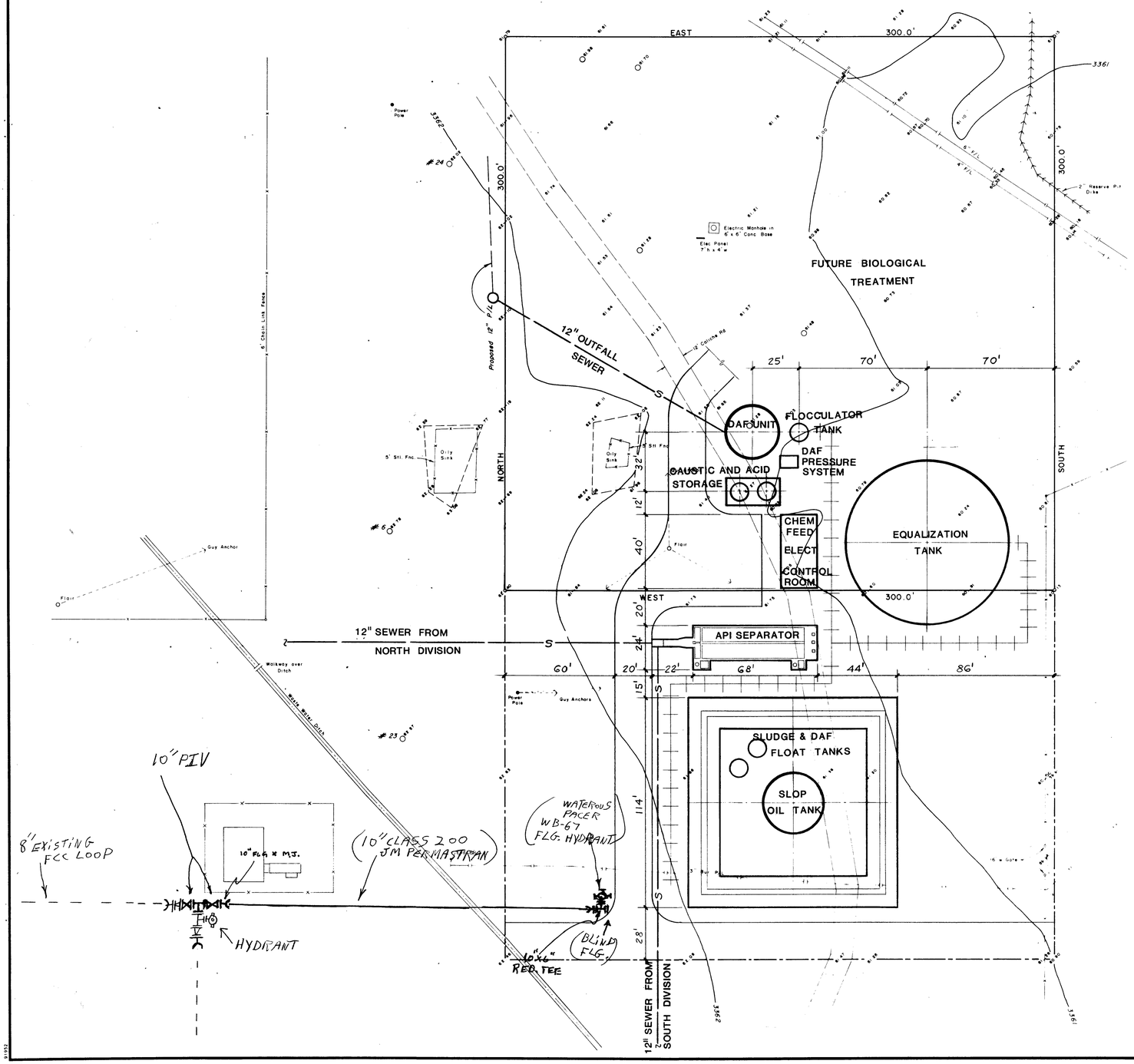
GW - 28

MONITORING REPORTS

DATE:

1986



Scale: 1" = 30'

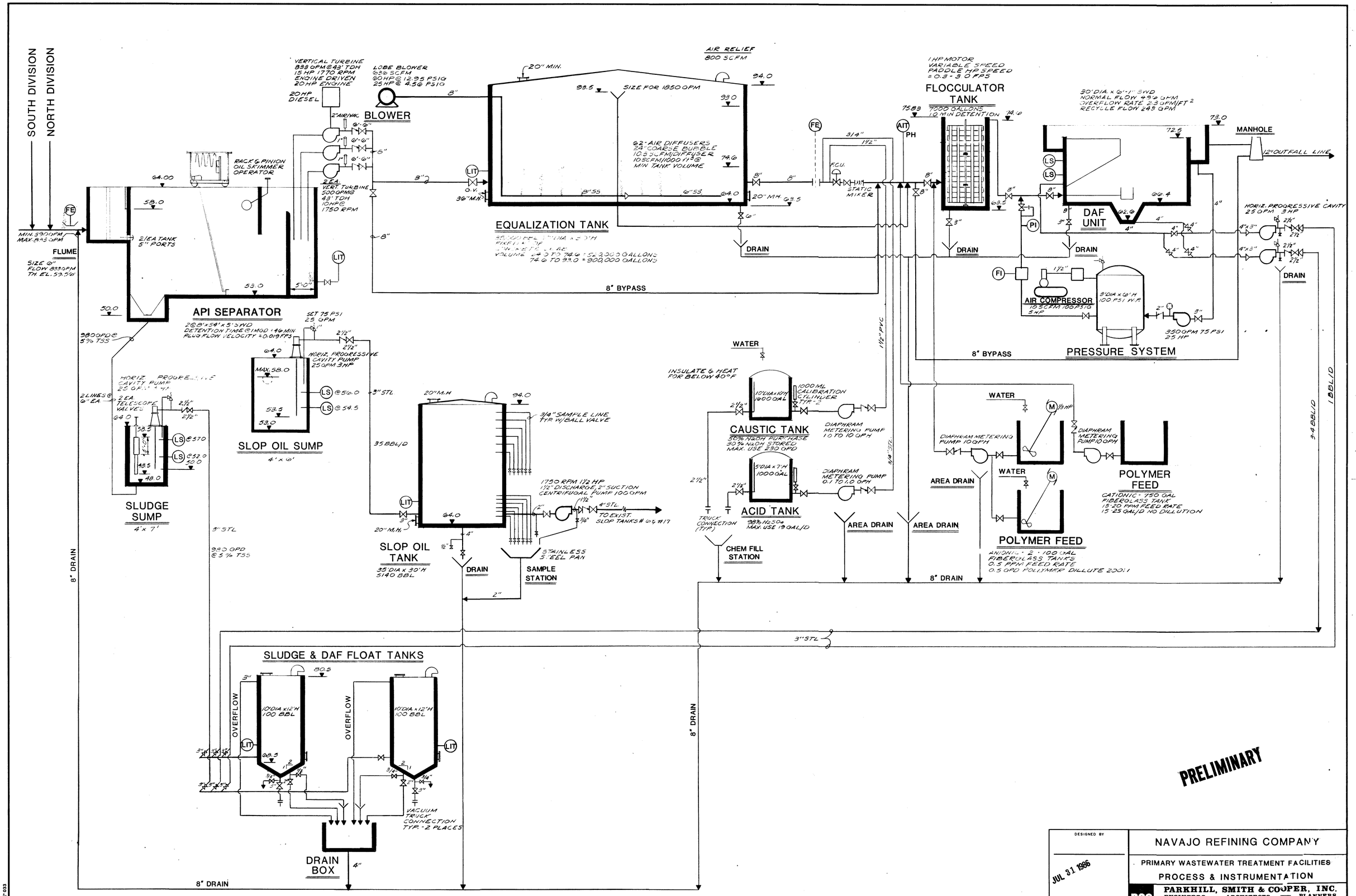
○ Indicates Moniter Well

NOTE Only natural ground shots were taken. Excess dirt and abandoned structures were not picked up.

PRELIMINARY

DESIGNED BY	NAVAJO REFINING COMPANY
JUL 31 1986	PRIMARY WASTEWATER TREATMENT FACILITIES
	PLANT LAYOUT
	PSC PARKHILL, SMITH & COOPER, INC. ENGINEERS — ARCHITECTS — PLANNERS LUBBOCK EL PASO MIDLAND
	DRAWN BY: SCALE: CHECKED BY: DATE: SHEET OF

LA 6483



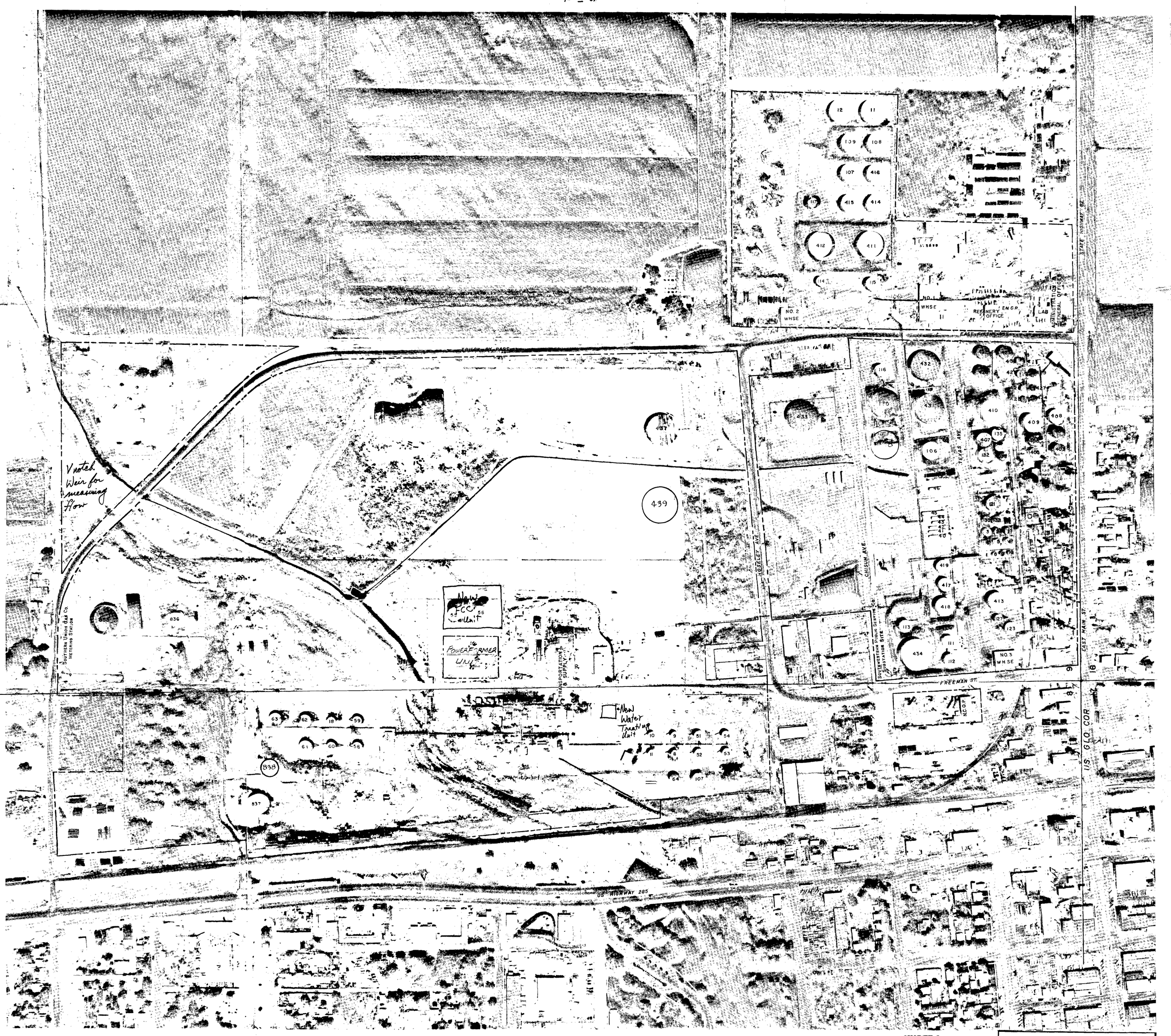
DESIGNED BY	NAVAJO REFINING COMPANY
JUL 31 1996	PRIMARY WASTEWATER TREATMENT FACILITIES
	PROCESS & INSTRUMENTATION
	PSC PARKHILL, SMITH & COOPER, INC. ENGINEERS — ARCHITECTS — PLANNERS LUBBOCK EL PASO MIDLAND
DRAWN BY : JJG&GA	SCALE : NONE
CHECKED BY : DBK	DATE : SHEET OF

AF 22470

POLYTRACE 033

T 17 S

R 26 E



KUCERA AND ASSOCIATES, INC.
PHOTOGRAMMETRIC CONSULTANTS
DENVER COL

DATE OF PHOTOGRAPHY: - 6

SCALE: 1"=150'

NOV 20 1980
FOR REFERENCE ONLY

Attachment 2

COMPOSITE PLOT PLAN
NORTH & SOUTH DIVISION
AS OF AUGUST 11, 1976

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

REVISIONS

NO.	DATE	BY
1		
2		
3		
4		
5		

DRAWN BY V.A.	SCALE 1"=150'	MATERIAL
CHK'D N.R.L.	DATE 9-15-76	DRAWING NO. 55-6-24B
TRACED	APP'D	

ENGINEER'S CERTIFICATE

I, N. Raymond Lamb, hereby certify that I am the registered land surveyor who caused the above plat to be prepared from field notes made under my direction and the same are true and correct to my best knowledge and belief.

N. Raymond Lamb

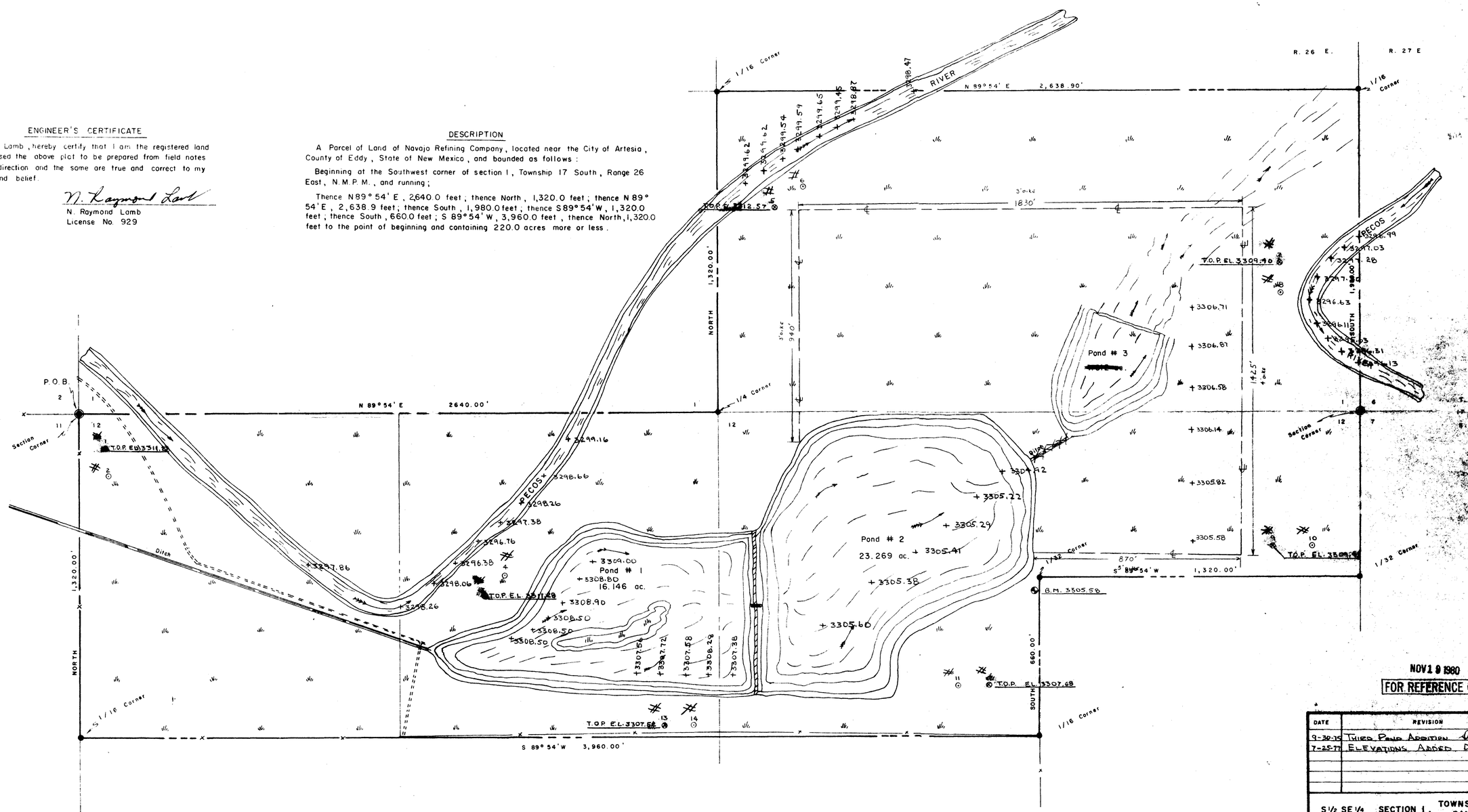
N. Raymond Lamb
License No. 929

DESCRIPTION

A Parcel of Land of Navajo Refining Company, located near the City of Artesia, County of Eddy, State of New Mexico, and bounded as follows:

Beginning at the Southwest corner of section 1, Township 17 South, Range 26 East, N.M.P.M., and running;

Thence N 89° 54' E, 2,640.0 feet, thence North, 1,320.0 feet; thence N 89° 54' E, 2,638.9 feet; thence South, 1,980.0 feet; thence S 89° 54' W, 1,320.0 feet, thence South, 660.0 feet; S 89° 54' W, 3,960.0 feet, thence North, 1,320.0 feet to the point of beginning and containing 220.0 acres more or less.



TYPICAL CROSS SECTIONS

NOV 1 9 1980

FOR REFERENCE ONLY

DATE	REVISION	
9-30-75	Third Pond Addition	DEL
7-25-77	Elevations Added D.R.G.	

S 1/2 SE 1/4 SECTION 1, TOWNSHIP 17 SOUTH, RANGE 26 EAST

N 1/2 NW 1/4, NW 1/2 NE 1/4, N 1/2 NE 1/4 NE 1/4 } SECTION 12, TOWNSHIP 17 SOUTH, RANGE 26 EAST

Navajo Refining Company

Artesia, New Mexico

N. RAYMOND LAMB ENGINEERING
Artesia, New Mexico

DATE	SCALE	DRAWN: C. Pierson	JOB NO:
July, 1975	1" = 200'	CHECKED:	PLATE NO:

Attachment 2

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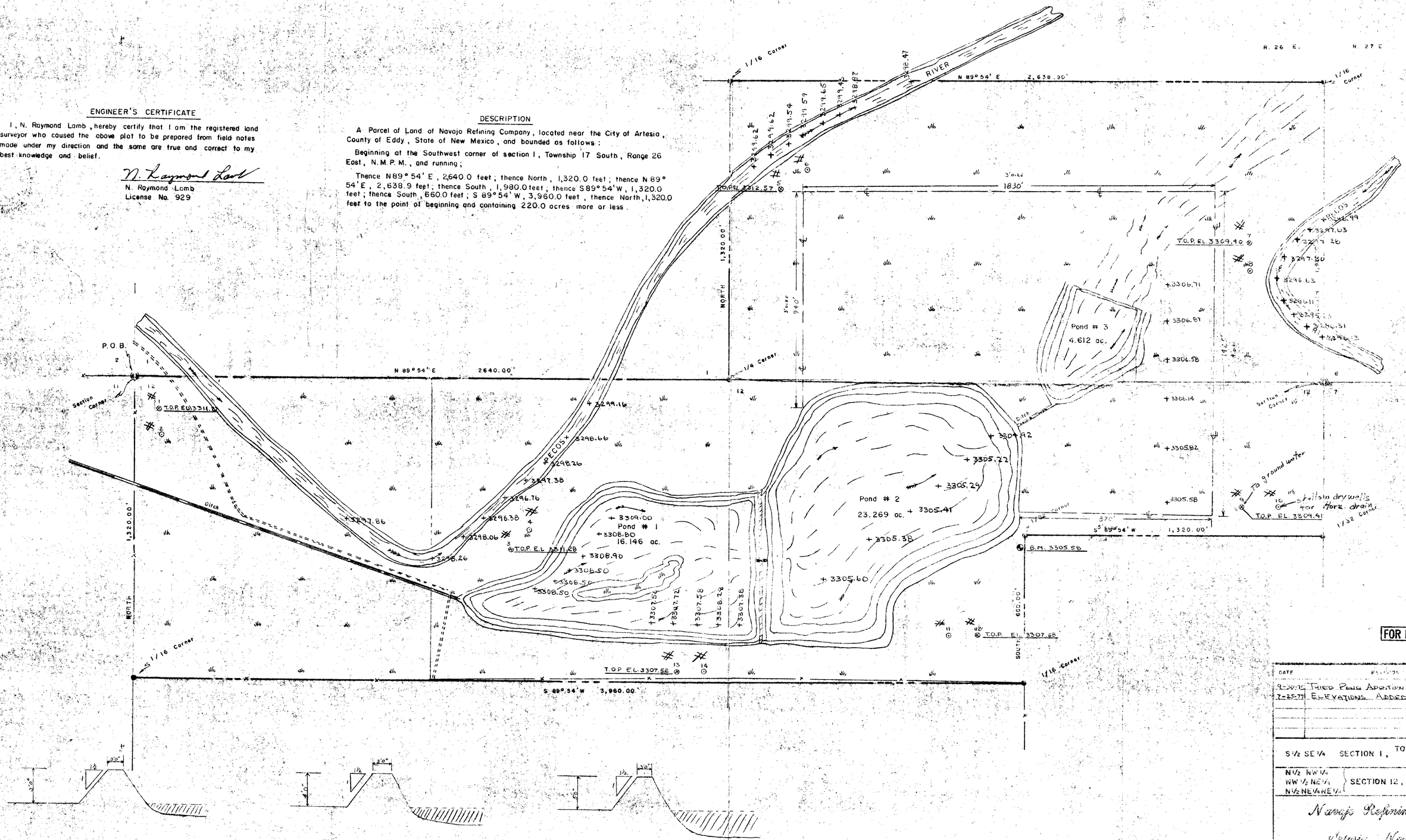


TYPICAL CROSS SECTIONS

JUN 4 1980

FOR REFERENCE ONLY

DATE	REVISION	BY
9-29-76	Third Pond Addition	HEW
7-25-77	Elevations Added D.R.G.	

S 1/2 SE 1/4 SECTION 1, TOWNSHIP 17 SOUTH, RANGE 26 EAST

N 1/2 NW 1/4, NW 1/4 NE 1/4, N 1/2 NE 1/4 NE 1/4 SECTION 12, TOWNSHIP 17 SOUTH, RANGE 26 EAST

Navajo Refining Company

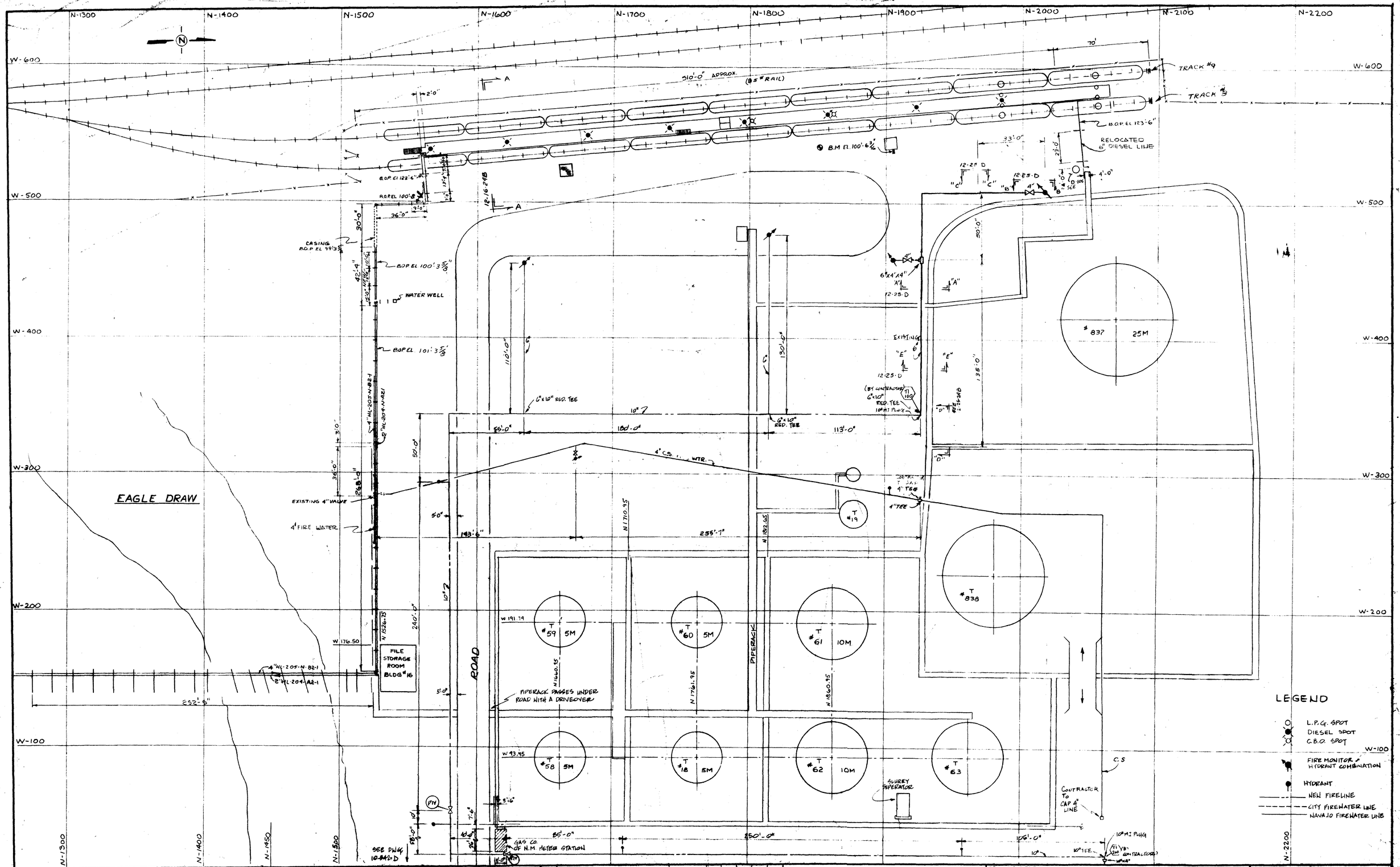
Artesia, New Mexico

N. RAYMOND LAMB ENGINEERING
Artesia, New Mexico

DATE	SCALE	DRAWN	JOB NO.
July, 1975	1" = 200'	D. Ribon	

CHECKED

55-56-243



NOTES

MONUMENT EL. 3366.30

MONUMENT EL. 3364.70

REFERENCE DRAWINGS

08-251-D } PIPING PLAN NORTH DIVISION TANK CAR LOADING STATIONS & RACK LOCATIONS
08-252-D } RAIL CAR LOADING STATION WALKWAYS SECTION DETAIL
08-249-D
08-275-D FLOW DIAG. FOR PIP RAIL CAR LOADING
08-255-D RACK LOADING RACK ADDITION STRUCTURAL & FOUNDATION PLANS & DETAILS
08-19-D PIPE SUPT DETAIL & SECTIONS

NO.	REVISIONS	BY	CHK	DATE	APPR.	APPR.
1	CHANGED BOP ON SUPT TEES	[illegible]	[illegible]	[illegible]		
2	CHANGED FIRE WATER	G.S.	[illegible]	[illegible]		
3	NEW TANK FARM LOOP	[illegible]	[illegible]	[illegible]		
4	ISSUED FOR CONSTRUCTION OF NEW FIRELINE	[illegible]	[illegible]	[illegible]		
5	ADDED GRID & TANKAGE [illegible]	[illegible]		[illegible]		

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

DRAWING TITLE

LPG RAIL CAR LOADING PLOT PLAN

DRAWN BY	CHECKED BY	SCALE
GM	NEL	1" = 30'
[illegible]	July 93	

Navajo

DRAWING NO. 08-248-D

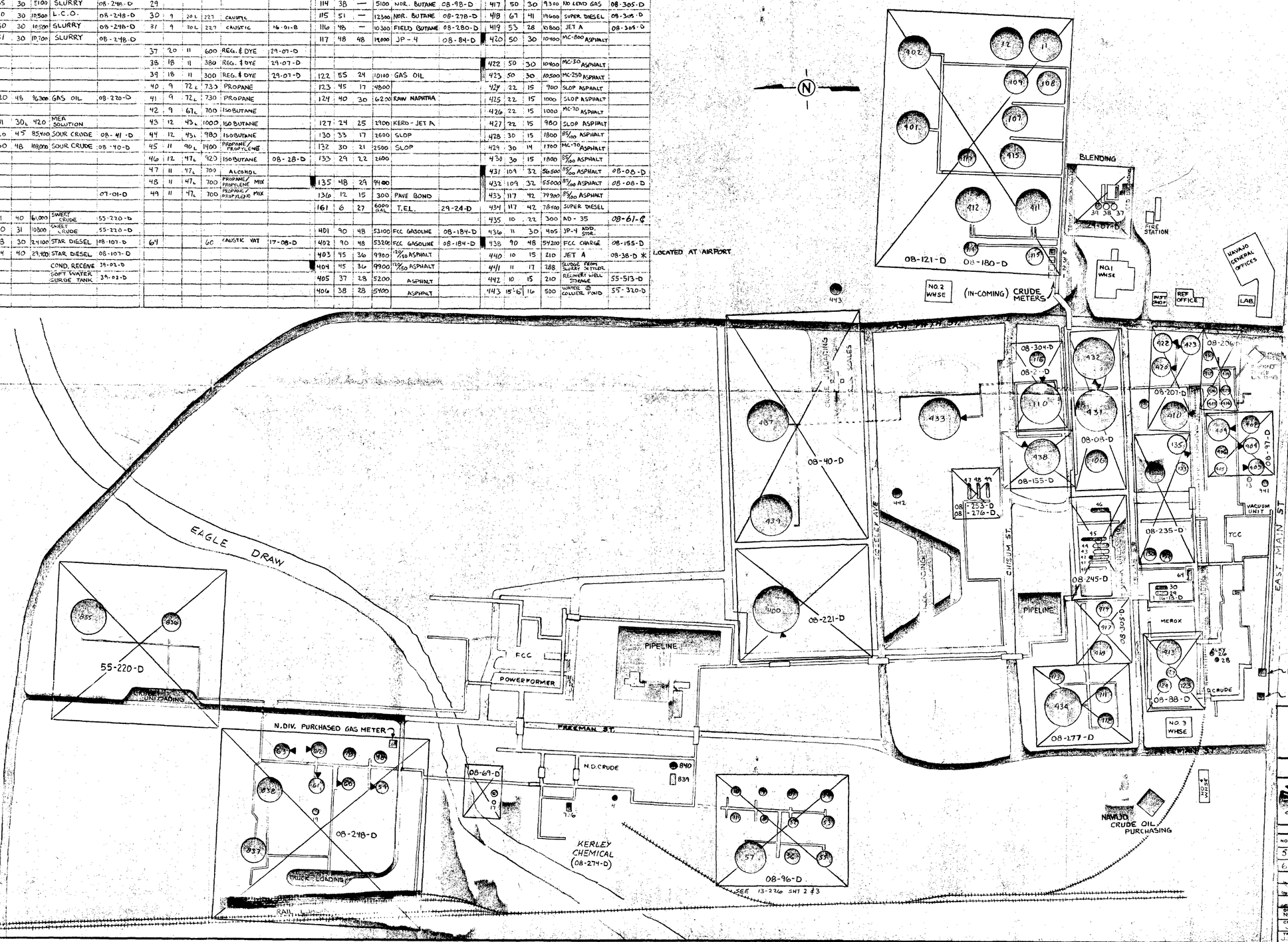
NORTH PLANT

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
4				CAUSTIC	13-301-D
6	20	11	600	SLOP-N.D.	08-69-D
8	28	30	3100	SLOP-N.D.	
9	28	30	3100	DES. NAPHTHA	
10	28	30	3100	RAW KERO.	
11	28	30	3100	RAW KERO.	
12	10	31L	450	BRINE STOR.	
17	10	16	225	SLOP-N.D.	08-69-D
18	29	29	2300	SLOP	08-248-D
19	21	16	825	OUT OF SERVICE	
22	4	41L	80	RAW CAUSTIC	
23	4	41L	80	STOR. 1 CAUSTIC SCRUB.	
51	35	29	5000	DES. NAPHTHA	
52	35	29	5000	RAW KERO	
53	35	30	5100	JET A	
54	35	30	5100	JET A	
55	48	36	11300	JET A	08-93-D
56	48	36	10800	RAW NAPHTHA	
57	90	48'8"	50400	RAW NAPHTHA	
58	35	30	5000	L.C.O.	08-248-D
59	35	30	5100	SLURRY	08-248-D
60	35	30	5100	SLURRY	08-248-D
61	50	30	10500	L.C.O.	08-248-D
62	50	30	10500	SLURRY	08-248-D
63	51	30	10700	SLURRY	08-248-D
400	120	46	96300	GAS OIL	08-220-D
436	11	30L	420	MEA SOLUTION	
437	120	45	85400	SOUR CRUDE	08-41-D
439	130	48	108000	SOUR CRUDE	08-40-D
730					07-01-D
835	111	40	61000	SWEET CRUDE	55-220-D
836	50	31	10800	SWEET CRUDE	55-220-D
837	73	30	24100	STAR. DIESEL	08-107-D
838	74	40	29400	STAR. DIESEL	08-107-D
839				COND. RECEIVE	39-02-D
840				SOFT WATER SURGE TANK	39-02-D

SOUTH PLANT

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
7	22	15	1000	SLOP	55-518-D
11	89	29	32600	POWERFORMATE	08-83-D
12	88	29	32300	POWERFORMATE	08-85-D
13	10	20	250	SLOP	
26	19	15	600	BRINE	43-
27	8	14	125	ALCOHOL	
28	10	18	250	SCRUBBER LIME H_2O	43-
29					
30	9	20L	227	CAUSTIC	
31	9	20L	227	CAUSTIC	16-01-B
37	20	11	600	REG. & DYE	29-07-D
38	18	11	380	REG. & DYE	29-07-D
39	18	11	300	REG. & DYE	29-07-D
40	9	72L	733	PROPANE	
41	9	72L	730	PROPANE	
42	9	67L	700	ISO BUTANE	
43	12	43L	1000	ISO BUTANE	
44	12	43L	980	ISO BUTANE	
45	11	90L	1400	PROPANE/PROPYLENE	
46	12	47L	920	ISO BUTANE	08-28-D
47	11	47L	700	ALCOHOL	
48	11	47L	700	PROPANE/PROPYLENE MIX	
49	11	47L	700	PROPANE/PROPYLENE MIX	
64			60	CAUSTIC VAT	17-08-D
100	67	40	21800	NO LEAD GAS	08-08-D
107	67	40	22000	ALKYLATE	08-84-D
108	67	40	22900	BASE	08-83-D
109	67	40	22300	BASE	08-85-D
110	108	35	57900		08-63-D
111	49	30	9100	REG. GAS	
112	49	30	10400		
113	48	—	10300	MTBE	08-212-D
114	38	—	5100	NOR. BUTANE	08-98-D
115	51	—	12500	NOR. BUTANE	08-278-D
116	48	—	10300	FIELD BUTANE	08-280-D
117	48	48	19000	JP-4	08-84-D
122	55	24	10100	GAS OIL	
123	45	17	4800		
124	40	30	6200	RAW NAPHTHA	
127	24	25	2900	KERO-JET A	
130	33	17	2600	SLOP	
132	30	21	2500	SLOP	
133	29	22	2600		
135	48	29	9400		
136	12	15	300	PAVE BOND	
161	6	27	6000 GAL	T.EL.	29-24-D
401	90	48	53100	FCC GASOLINE	08-184-D
402	90	48	53200	FCC GASOLINE	08-184-D
403	45	36	9900	120/150 ASPHALT	
404	45	36	9900	120/150 ASPHALT	
405	37	28	5200	ASPHALT	
406	38	28	5400	ASPHALT	
408	55	24	10100	CUTTER STOCK	
409	67	40	25100	85/100 ASPHALT	
410	79	40	35700	85/100 ASPHALT	
411	100	40	52,100		
412	100	40	51900		
413	67	39	21900	REG. GASOLINE	
415	67	39	29900		08-84-D
417	50	30	9300	NO LEAD GAS	08-305-D
418	67	41	19400	SUPER DIESEL	08-305-D
419	53	28	10800	JET A	08-305-D
420	50	30	10400	MC-800 ASPHALT	
422	50	30	10400	MC-30 ASPHALT	
423	50	30	10500	MC-250 ASPHALT	
424	22	15	900	SLOP ASPHALT	
425	22	15	1000	SLOP ASPHALT	
426	22	15	1000	MC-70 ASPHALT	
427	22	15	980	SLOP ASPHALT	
428	30	15	1800	85/100 ASPHALT	
429	30	14	1700	MC-70 ASPHALT	
430	30	15	1800	85/100 ASPHALT	
431	109	32	56500	85/100 ASPHALT	08-08-D
432	109	32	55000	85/100 ASPHALT	08-08-D
433	117	42	79900	85/100 ASPHALT	
434	117	42	78900	SUPER DIESEL	
435	10	22	300	AD-35	08-61-C
436	11	30	405	JP-4 ADD. STOR.	
438	90	48	59200	FCC CHARGE	08-155-D
440	10	15	210	JET A	08-38-D *
441	11	17	288	SLUDGE FROM SLURRY SETTLER	
442	10	15	210	REFINERY WELL STORAGE	55-513-D
443	15'6"	16	500	WATER TO COLLIER POND	55-320-D

LOCATED AT AIRPORT



NAVAJO TANKAGE

▶ SUCTION HEATER

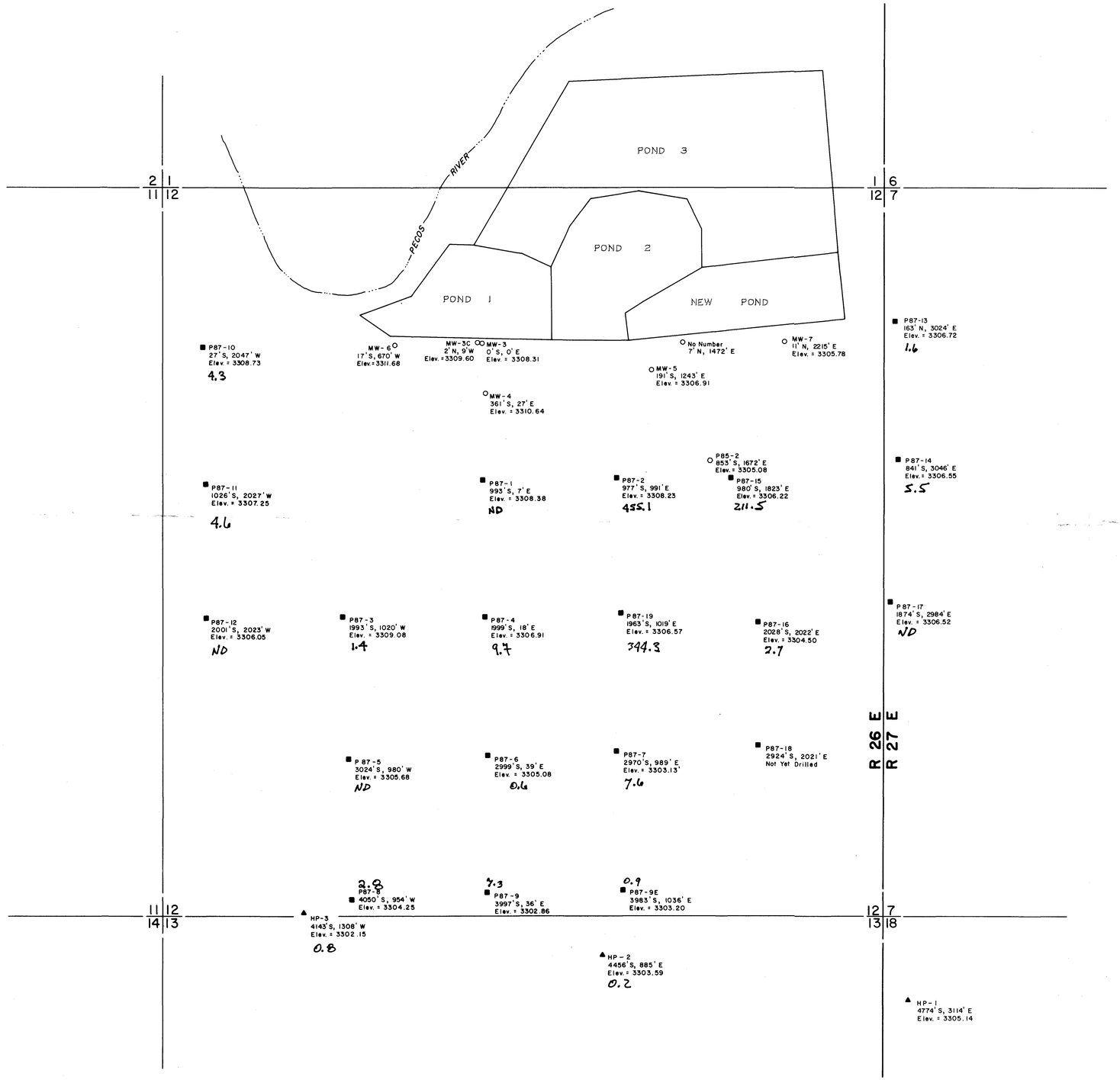
NAVAJO REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

REVISIONS

NO	DATE	BY	
5	JJW 9/85	REDRAWN - DWG. NO. 3 ADDED	
6	JJW 9/85	ADDED SUCTION HEATERS	

DRAWN BY N. LEWIS	DATE 3-25-75	APPD. 7-10-75	
CHK'D JDH	DRAWING NO 55-Z-6-D		REV 6
TRACED J. WILSON			

Revised 8/87



N

SCALE : 1" = 400'

- ○ MONITOR WELL
- ■ POINT INSTALLED IN THIS STUDY (1987)
- ○ POINT INSTALLED IN EARLIER STUDY (1985)
- ▲ POINT INSTALLED BY UNKNOWN AGENCY

NOTE: Coordinate origin is well MW-3
All elevations are to the top of well pipe.

I hereby certify that this plat was made from notes taken in the field in a bona fide survey made under my supervision, and that the same is true and correct to the best of my knowledge and belief.

John W. West, N.M. P.E. & L.S. No. 676

GEO SCIENCE CONSULTANTS

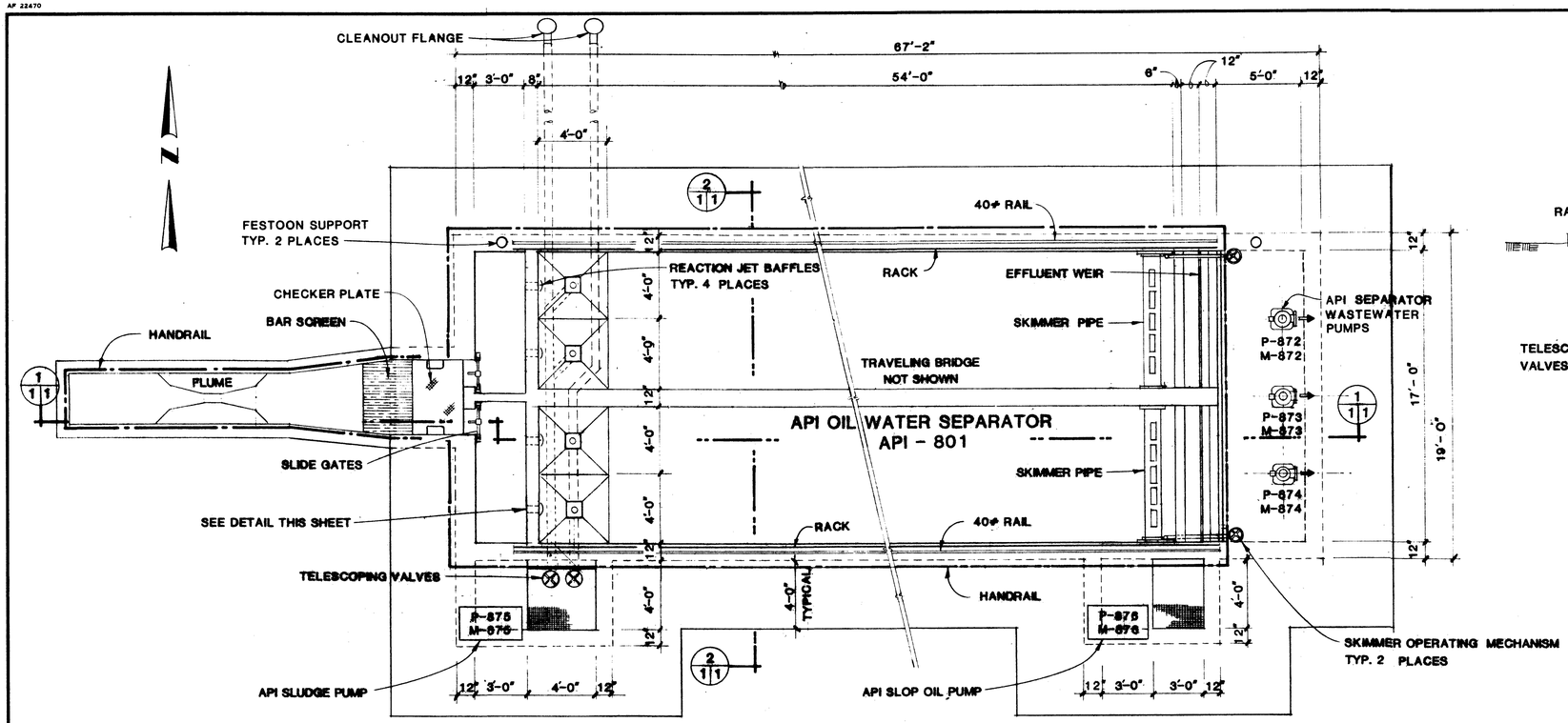
LOCATION OF MONITOR WELLS SITUATE WITHIN SECTIONS 12 & 13, T 17 S, R 26 E, AND IN SECTIONS 7 & 18, T 17 S, R 27 E, ALL N.M.P.M., EDDY COUNTY, NEW MEXICO.

JOHN WEST ENGINEERING CO.
CONSULTANTS
HOBBS NEW MEXICO

Surveyed By T. Asel	Drawn By M. Mitchell	Last Rev. Date	Drawing Number
Date Begin 3/11/87	Date 3/17/87	File No.	
Date End 3/12/87	Checked By	Sheet ___ Of ___	

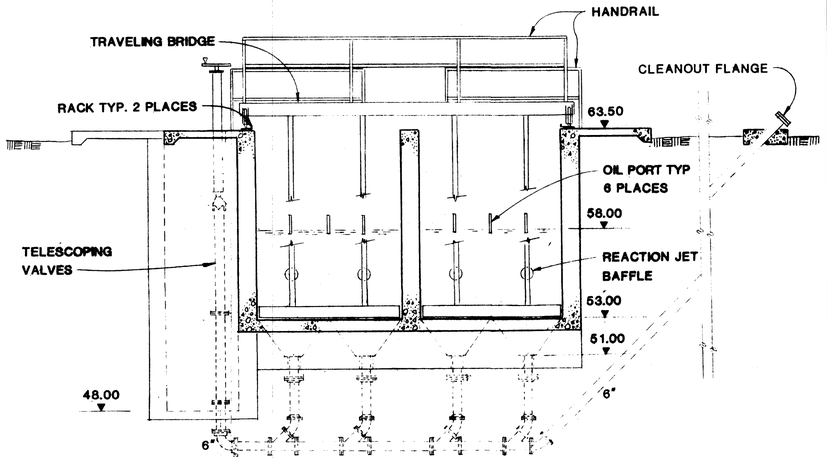
91552

LA 6493



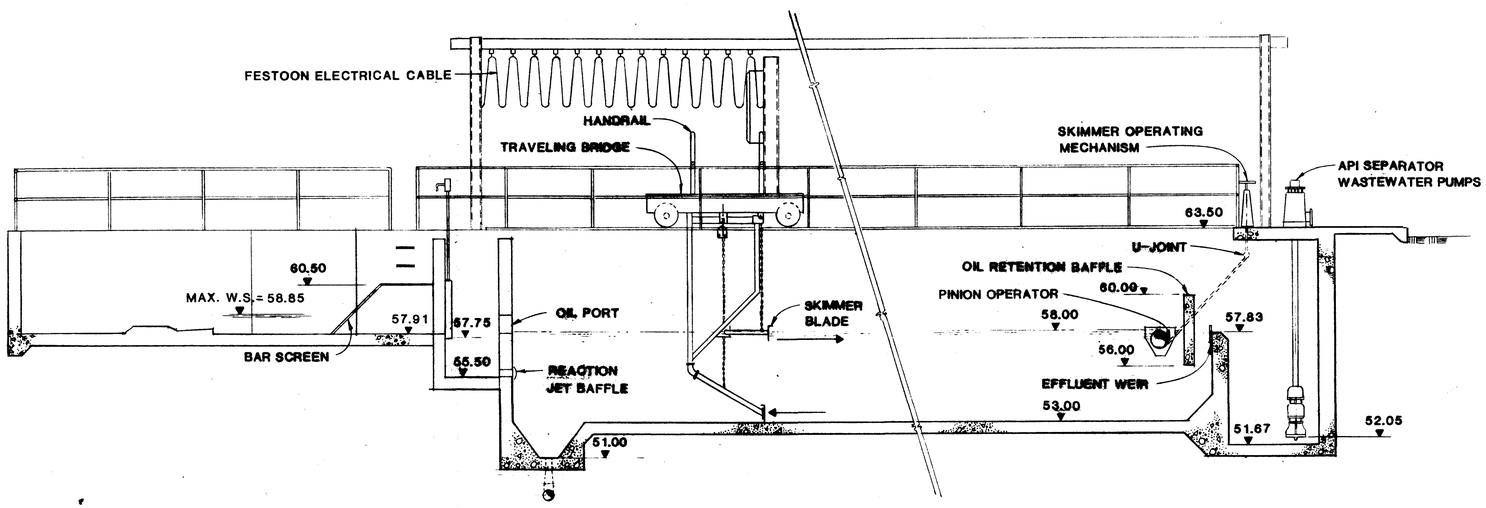
PLAN

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



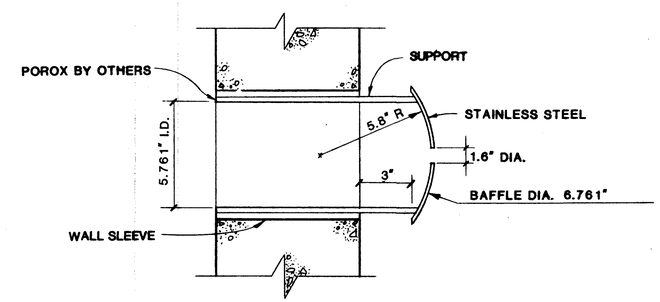
SECTION 2/1 1

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



SECTION 1/1 1

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



REACTION JET BAFFLE DETAIL

SCALE: 3" = 1'-0"

DESIGNED BY DBK	NAVAJO REFINING COMPANY
	PRIMARY WASTEWATER TREATMENT FACILITIES
	API SEPARATOR
	PSC PARKHILL, SMITH & COOPER, INC. ENGINEERS — ARCHITECTS — PLANNERS LUBBOCK EL PASO MIDLAND
	DRAWN BY: JJG · SCALE: AS SHOWN · SHEET 1 OF 1
	CHECKED BY: DBK · DATE: AUG. 13, 1986

COMPOSITE PLOT PLAN
NORTH & SOUTH DIVISION
AS OF AUGUST 11, 1976

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

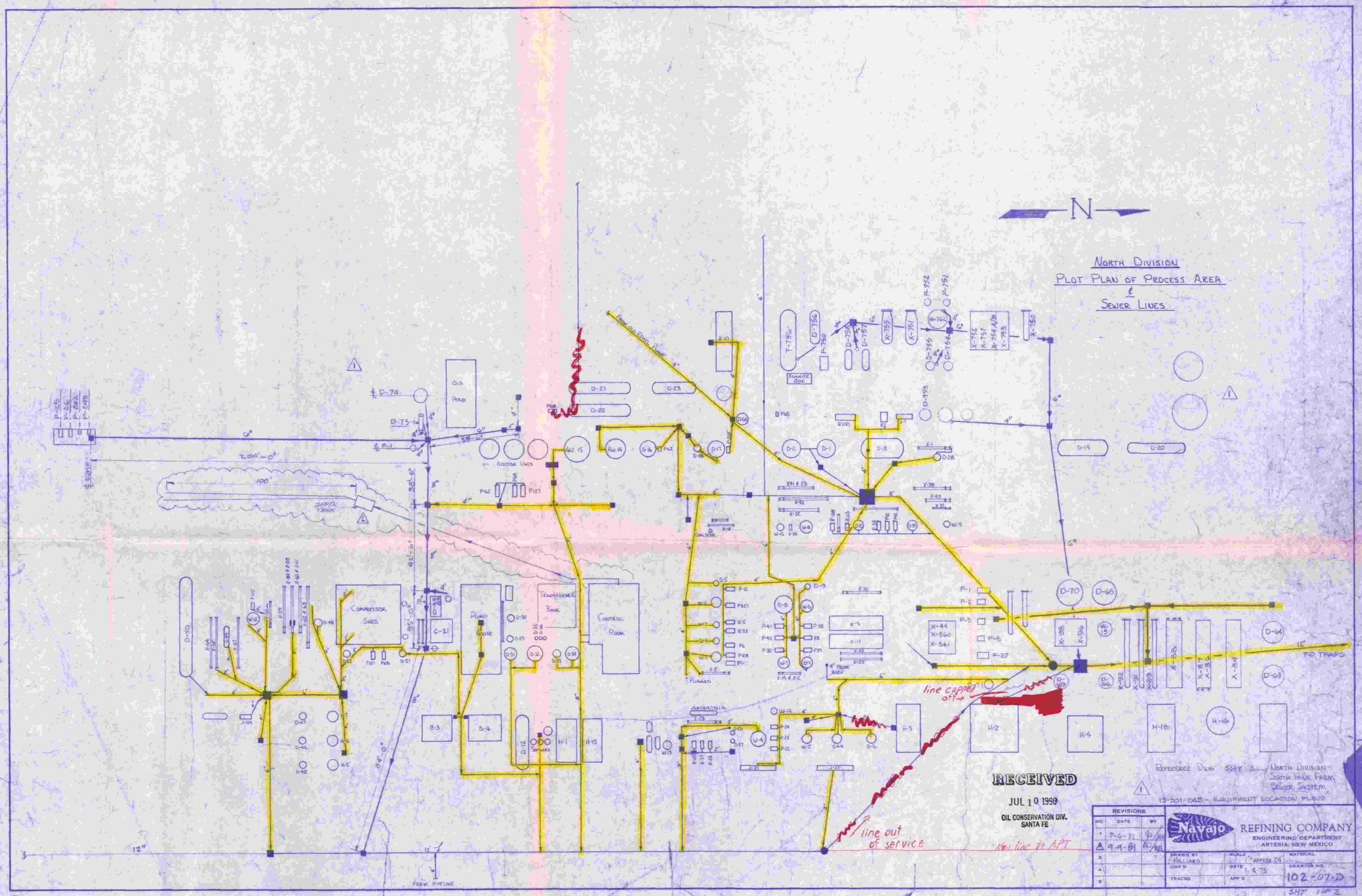
REVISIONS

NO.	DATE	BY	
1	7/81	A.D.	UPDATED
2	7/85	JJW	UPDATED
3			
4			
5			

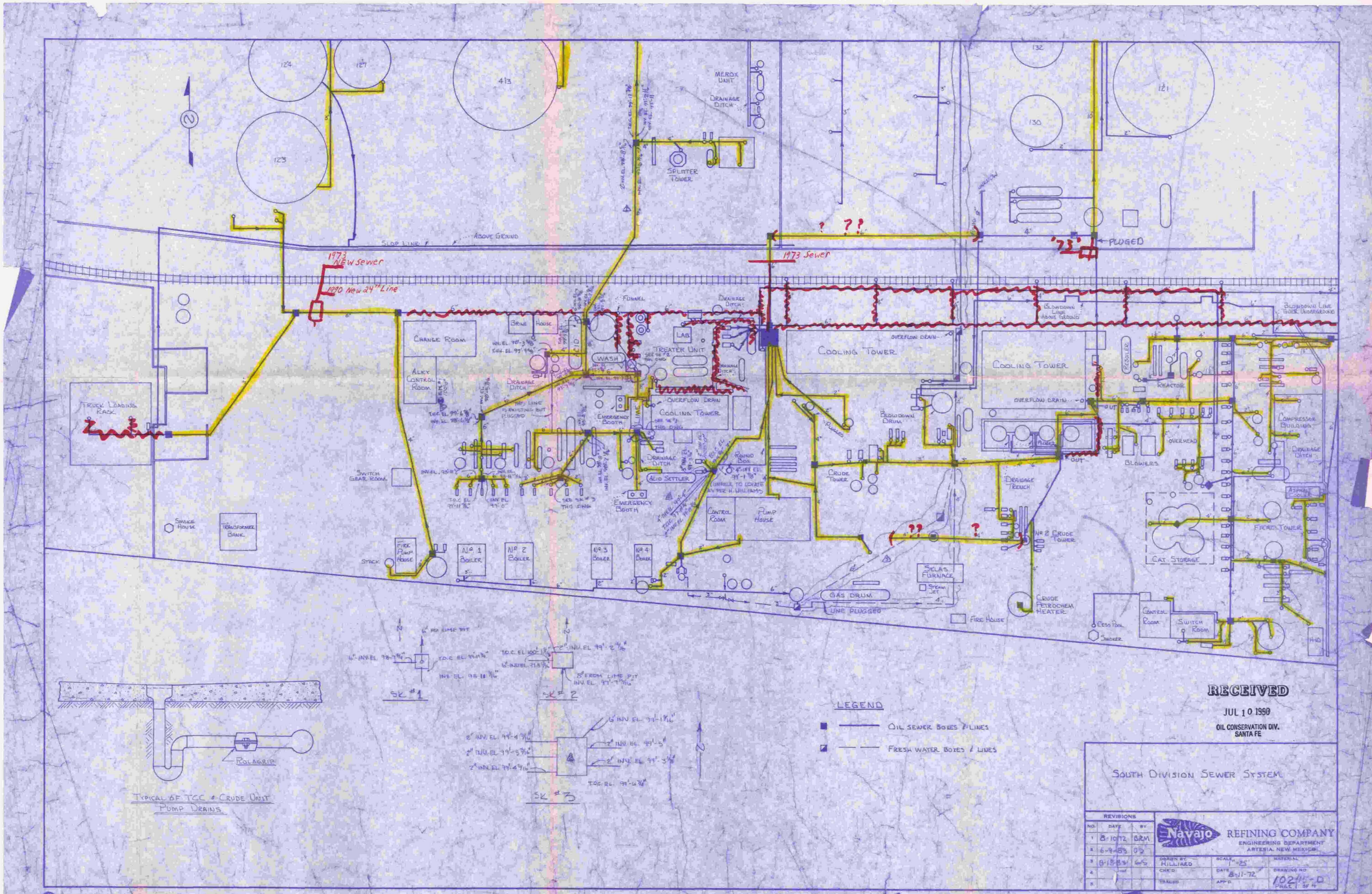
DRAWN BY V.A.	SCALE 1" = 150'	MATERIAL
CHK'D N.R.L.	DATE 9-15-76	DRAWING NO. 55-6 -D
TRACED	APP'D	

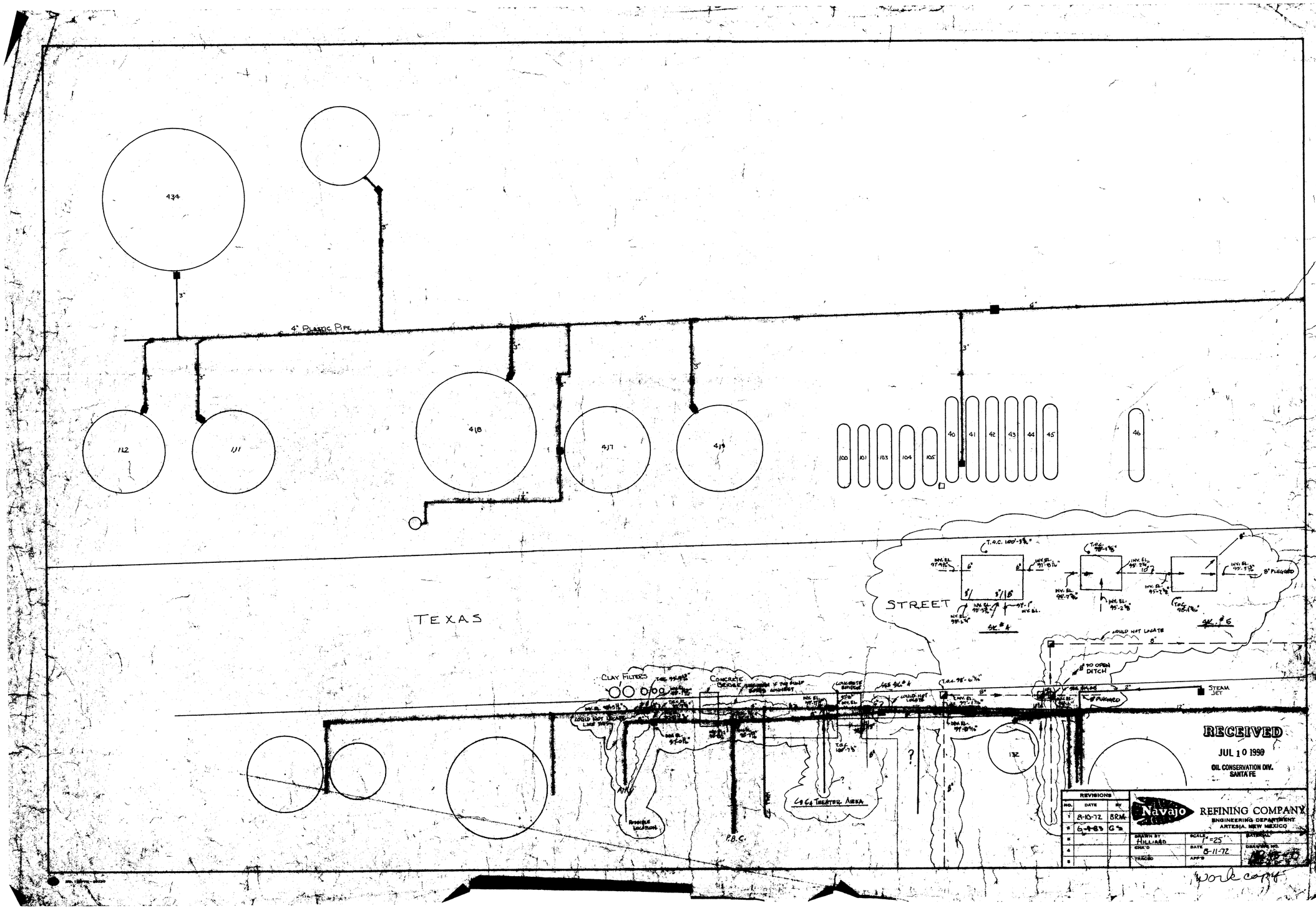
FOR REFERENCE ONLY

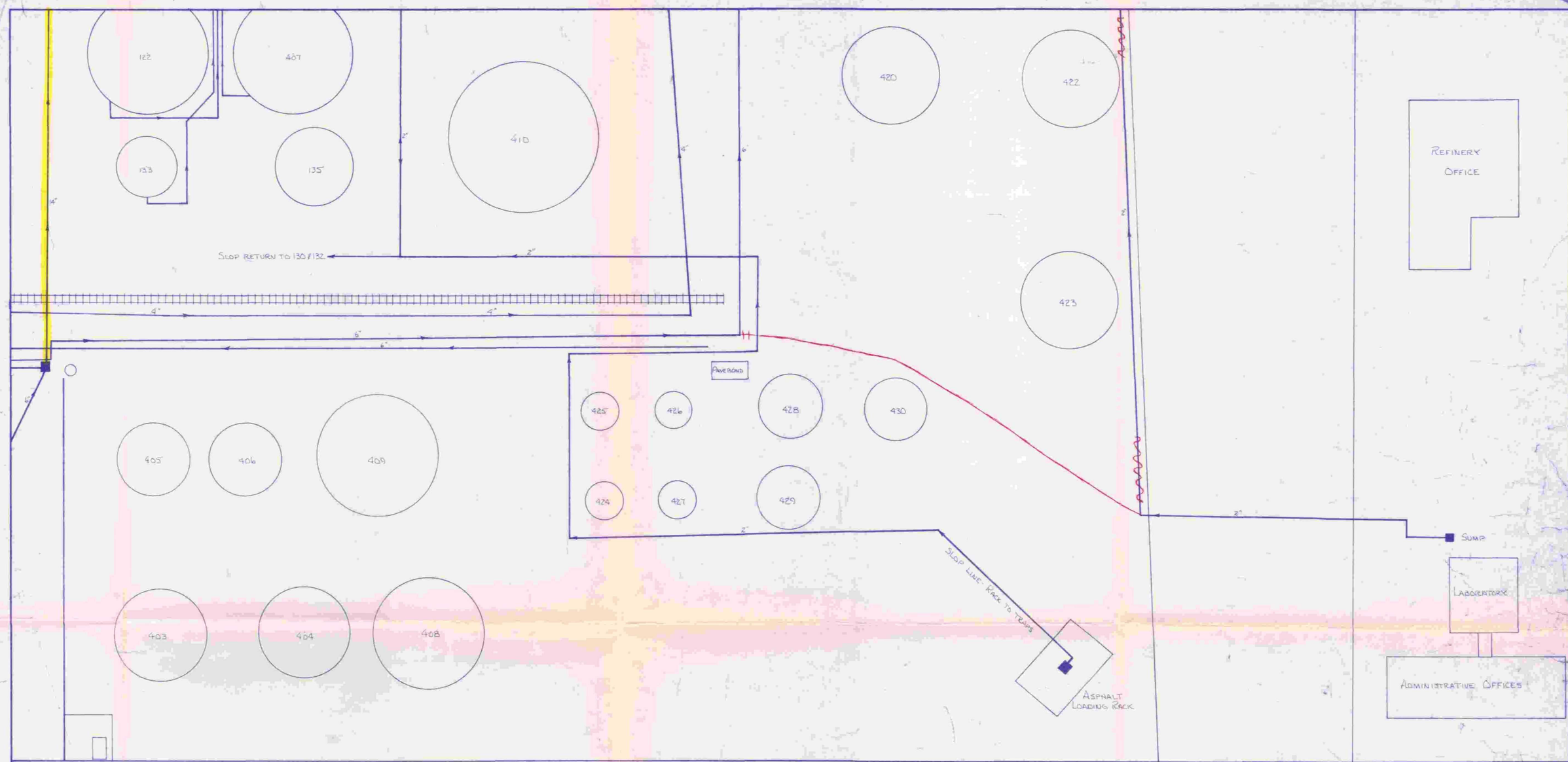
AUG 19 1986


N
NORTH DIVISION
PLOT PLAN OF PROCESS AREA
&
SEWER LINES
SEPTIC TANK
COMPRESSOR SHED
PUMP HOUSE
TRANSFORMER BANK
CONTROL ROOM
DOCTOR VATS
FOAMITE BOX
AMMONIA
TO TRAPS
FROM PIPELINE
line capped off
line out of service
New line to APT
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
REFERENCE DWG SHT 1 NORTH DIVISION SOUTH TANK FARM SEWER SYSTEM
13-301-245 - EQUIPMENT LOCATION PLANS
REVISIONS
NO. DATE BY
1 7-6-71
4 9-9-81
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY J. HILLIARD
SCALE 1" APPROX 24'
MATERIAL
CHK'D
DATE 1-9-73
DRAWING NO. 102-07-D
TRACED
APP'D
SHT 1 OF 2

work copy


124
127
413
123
132
130
121
MEROX UNIT
DRAINAGE DITCH
SPLINTER TOWER
SLOP LINE
ABOVE GROUND
1973 New Sewer
1990 New 24" Line
1973 Sewer
PLUGGED
'73'
TRUCK LOADING RACK
CHANGE ROOM
ALKY CONTROL ROOM
BRINE HOUSE
WASH
FUNNEL
DRAINAGE DITCH
LAB
TREATER UNIT
COOLING TOWER
OVERFLOW DRAIN
EMERGENCY BOOTH
ACID SETTLER
ROUND BOX
CONTROL ROOM
PUMP HOUSE
SWITCH GEAR ROOM
SMOKE HOUSE
TRANSFORMER BANK
FIRE PUMP HOUSE
STACK
Nº 1 BOILER
Nº 2 BOILER
Nº 3 BOILER
Nº 4 BOILER
BLOWDOWN DRUM
CRUDE TOWER
DRAINAGE TRENCH
GAS DRUM
LINE PLUGGED
SELAS FURNACE
STEAM JET
FIRE HOUSE
Nº 2 CRUDE TOWER
CRUDE PETROCHEM HEATER
BLOWDOWN LINE ABOVE GROUND
BLOWDOWN LINE GOES UNDERGROUND
DEHYDRATOR
REACTOR
OVERHEAD
BLOWERS
COMPRESSOR BUILDING
ASPHALT COVER
FRAC TOWER
CAT. STORAGE
CESS POOL
SINDER
CONTROL ROOM
SWITCH ROOM
H.O.
6" NO LIME PIT
6" INV. EL. 98-7 3/4"
T.O.C. EL. 99-1 3/8"
INV. EL. 98-10 7/16"
SK #1
T.O.C. EL. 100-1 3/8"
2" INV. EL. 99'-2 3/16"
6" INV. EL. 98-8 3/16"
8" FROM LIME PIT
INV. EL. 99'-9 7/16"
SK #2
6" INV. EL. 99'-1 3/16"
2" INV. EL. 99'-4 3/16"
3" INV. EL. 99'-5 3/16"
2" INV. EL. 99'-4 3/16"
2" INV. EL. 99'-5"
2" INV. EL. 99'-3 3/8"
T.O.C. EL. 99'-6 3/4"
SK #3
POLAGRIP
TYPICAL OF TCC & CRUDE UNIT PUMP DRAINS
LEGEND
OIL SEWER BOXES & LINES
FRESH WATER BOXES & LINES
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
SOUTH DIVISION SEWER SYSTEM
REVISIONS
NO. DATE BY
1 8-10-72 GRM
2 6-9-83 DS
3 8-18-83 GS
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY HILLIARD
SCALE 1"=25'
MATERIAL
CHK'D
DATE 8-11-72
DRAWING NO. 10244-D
TRACED
APP'D
PAGE 1 OF 4
Work copy


434
4" Plastic Pipe
112
111
418
417
419
100
101
103
104
105
40
41
42
43
44
45
46
TEXAS
STREET
T.O.C. 100'-3 1/2"
INV. EL. 97-7 1/2"
INV. EL. 97-0 1/2"
INV. EL. 95-2 1/2"
INV. EL. 95-7 1/2"
INV. EL. 95-1 1/2"
8" Plugged
SK. #4
SK. #5
Could not locate
8" to open ditch
Steam Jet
Clay Filters
Concrete Bridge
Concrete Bridge
Lab & Theater Area
P.B.C.
132
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
REVISIONS
NO. DATE BY
1 8-10-72 BRM
2 6-9-83 G's
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY Hilliard
SCALE 1"=25'
DATE 8-11-72
DRAWING NO.
Work copy



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JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

REVISIONS		
NO.	DATE	BY
1	8-10-72	BRM
2		
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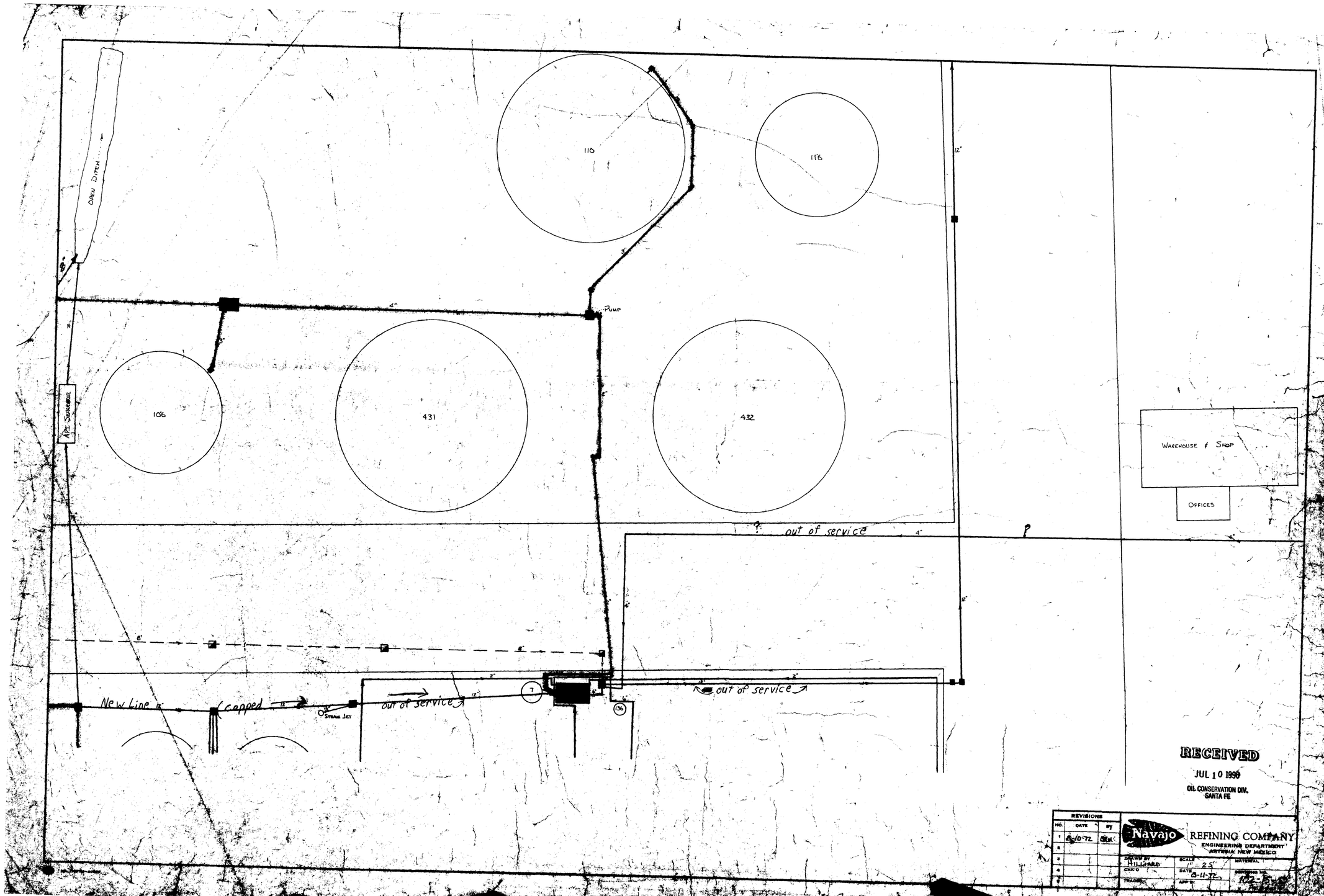
5		

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

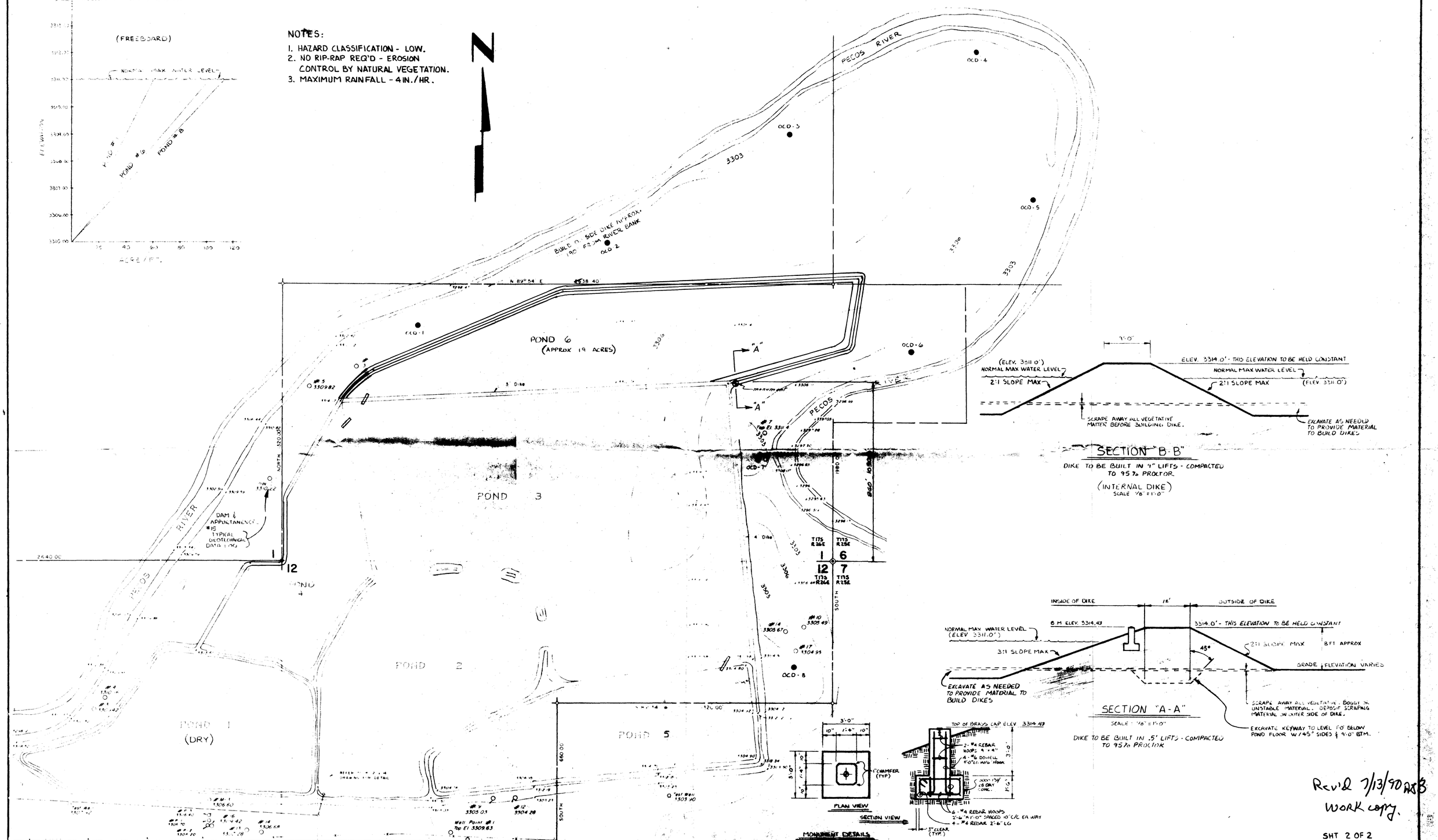
DRAWN BY Hilliard	SCALE 1"=25'	MATERIAL
CHK'D	DATE 8-11-72	DRAWING NO. 102-18-D
TRACED	APP'D	PAGE 3 OF 4

Work copy


OPEN DITCH
110
116
12"
3"
4"
PUMP
106
431
432
AIR SCRUBBER
WAREHOUSE & SHOP
OFFICES
out of service
New Line
capped
STEAM JET
out of service
out of service
7
136
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
REVISIONS
NO. DATE BY
1 8-10-72 DEM
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY HILLIARD
SCALE 1" = 25'
MATERIAL
CHK'D
DATE 8-11-72
TRACED
APP'D
DRAWING NO. 102-B-8

NOTES:

1. HAZARD CLASSIFICATION - LOW.
2. NO RIP-RAP REQ'D - EROSION CONTROL BY NATURAL VEGETATION.
3. MAXIMUM RAINFALL - 4 IN./HR.



SHT 2 OF 2

NOTES

PROPOSED CONSTRUCTION SHOWN W/ CONTOUR LINES

● PROPOSED OCD MONITOR WELLS

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK	DATE	APPR	APPR

NO.	REVISIONS	BY	CHK	DATE	APPR	APPR
1	ISSUE FOR APPROVAL OF PONDS 6,7 & 8	JJW	RES	7/90		
2	ADDITION OF OCD APPROVED MONITOR WELLS	JJW	RES	10/91		
3	ADDITION OF PONDS 6,7, & 8	JJW				
4	AS BUILT'S	BMS		7/96		

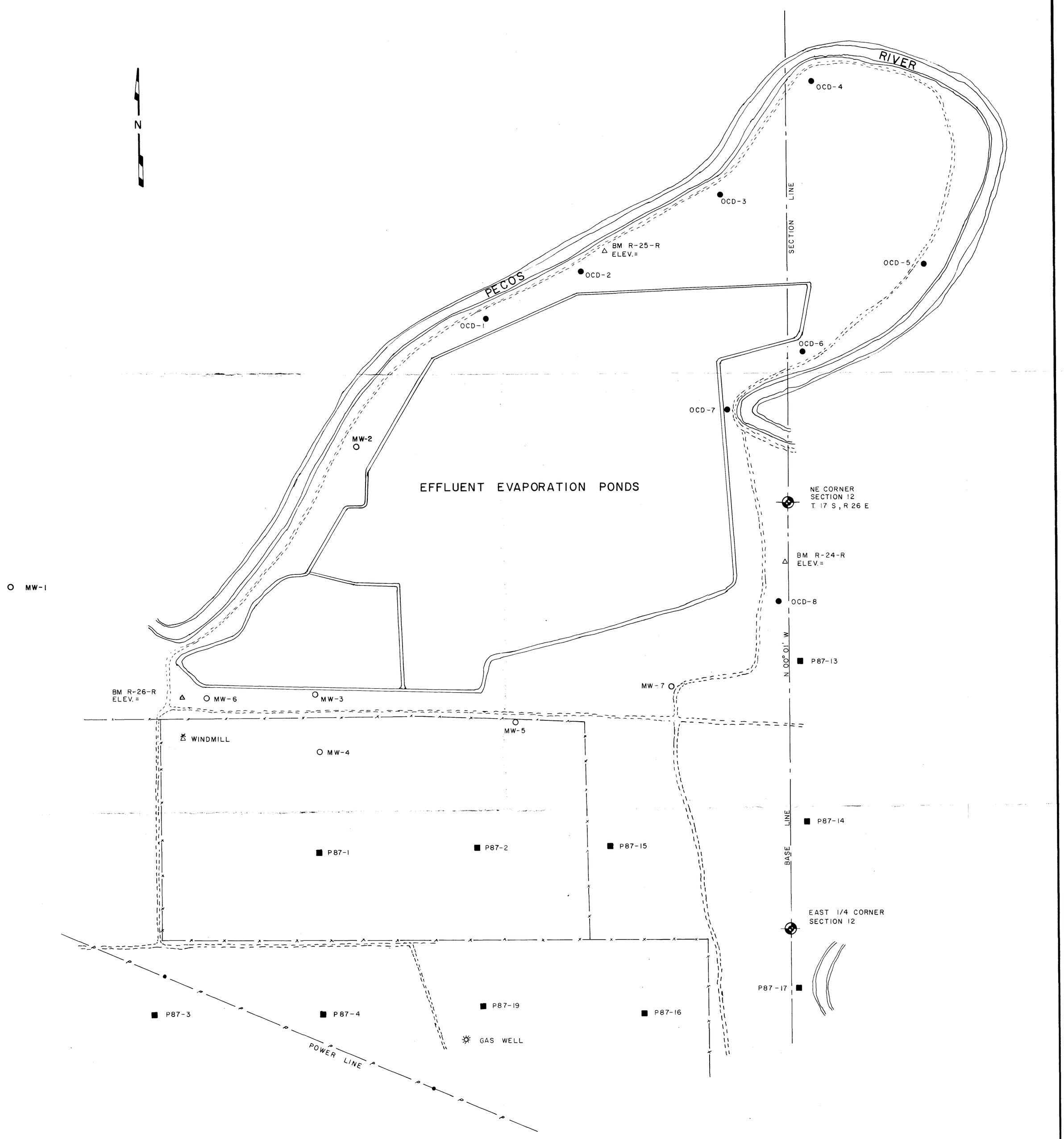
DRAWING TITLE

EFFLUENT EVAPORATION PONDS

(ADDITION OF PONDS 6, 7 & 8)

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
JJW	RES	1" = 200'
DATE 2-9-88	DATE 2/9/88	DRAWING NO. 102-25-D-2



RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

MONITORING WELLS

EFFLUENT EVAPORATION PONDS

NAVAJO REFINING COMPANY

ARTESIA EDDY COUNTY NEW MEXICO

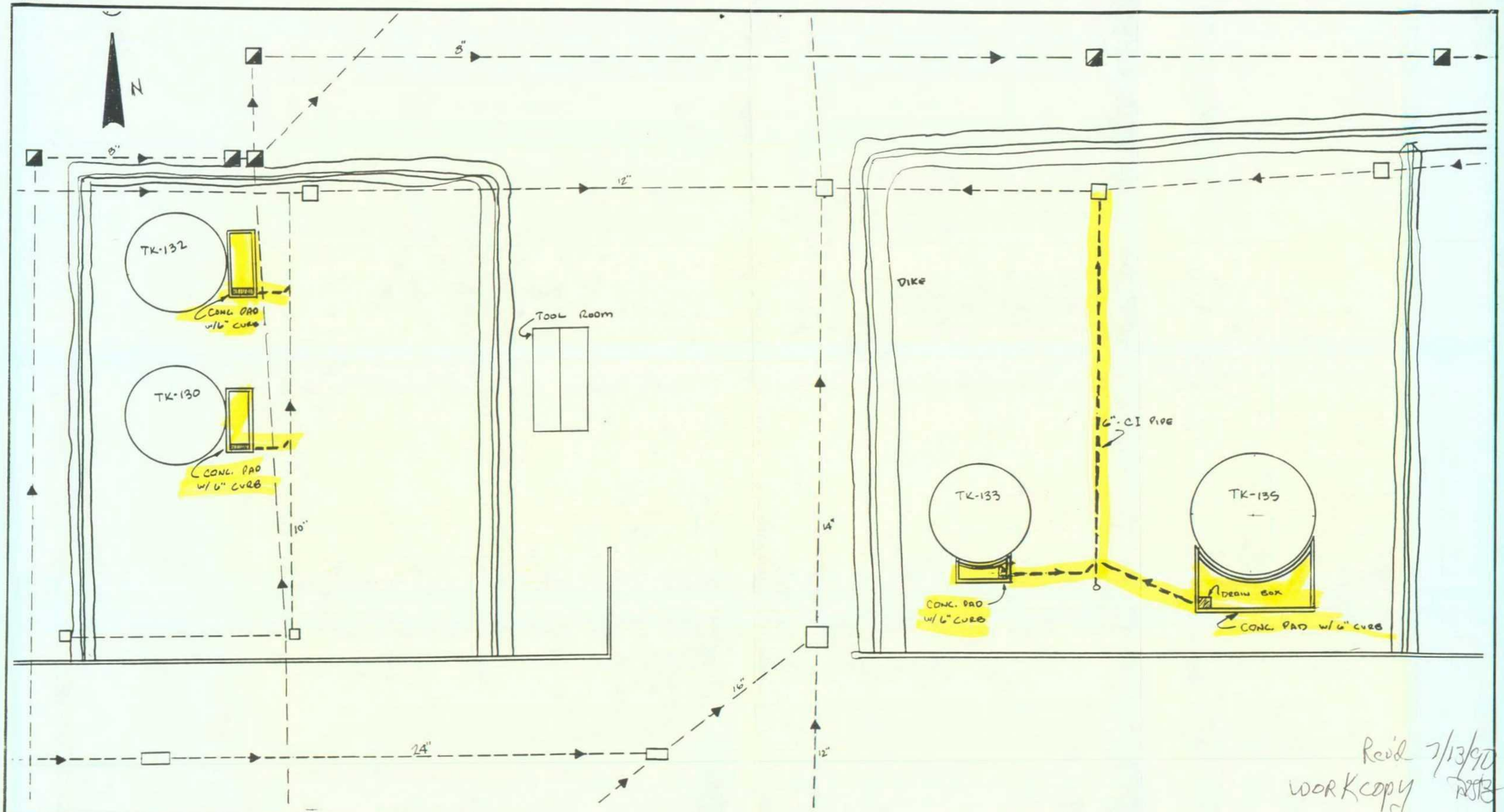
McFARLAND ENGINEERING

JOB NO.	DRAWN	SCALE	DATE	
89069	BMc	1"=300'	8/89	102-29-D

102-29-D

WORK copy

130860



Rev'd 7/13/90
WORK copy

REF. DWG'S

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
0						

DRAWING TITLE

PROPOSED SPILL CONTAINMENT

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
GLS		NONE	
DATE	APPR'D BY	DRAWING NO.	REV.
7-11-90		SK-0000	0

work copy

POINT	COORDINATE NORTH	COORDINATE EAST	ELEVATION (Top of Pipe)
BM INLET BOX			3311.50
NE COR. SEC. 12	10,000.00	10,000.00	
E¼ COR. SEC. 12	7,346.48	10,000.77	
P87-1	7,860.98	7,066.33	3308.17
P87-2	7,877.45	8,050.46	3308.22
P87-3	6,860.52	6,039.77	3308.74
P87-4	6,906.30	7,069.94	3307.14
P87-13	9,017.22	10,083.78	3306.47
P87-14	8,013.55	10,105.91	3306.60
P87-15	7,874.05	8,882.25	3306.52
P87-16	9,081.67	9,081.67	3304.78
P87-17	6,980.05	10,043.43	3306.91
P87-19	6,891.51	8,077.86	3306.99
MW-3	8,853.34	7,059.28	3308.42
MW-4	8,492.40	7,086.25	3310.81
MW-5	8,662.74	8,302.43	3307.27
MW-6	8,836.92	6,389.77	3311.85
MW-7	8,865.34	9,272.82	3306.15
OCD-1	11,151.77	8,123.67	3312.68
OCD-2	11,446.35	8,713.04	3312.50
OCD-3	11,926.99	9,580.72	3312.77
OCD-4	12,510.53	10,450.08	3312.23
OCD-5	11,492.04	10,851.91	3310.08
OCD-6	10,949.30	10,096.57	3309.93
OCD-7	10,584.02	9,617.71	3309.25
OCD-8	9,386.15	9,933.91	3308.05
MW-1	9,549.28	5,190.28	3311.93
MW-2	10,388.88	7,361.11	3311.36

work copy

NAVAJO REFINING COMPANY

(6-11-90)

POINT	*ELEVATION*	*GROUND WATER ELEVATION*
P87-1	3308.17	3299.15
P87-2	3308.22	3298.22
P87-3	3308.74	3298.37
P87-4	3307.14	3298.02
P87-13	3306.47	3298.64
P87-14	3306.60	3297.75
P87-15	3306.52	3298.75
P87-16	3304.78	3297.28
P87-17	3306.91	3297.70
P87-19	3306.99	3297.51
MW-1	3311.93	3302.89
MW-2	3311.36	3304.07
MW-3	3308.42	3300.55
MW-4	3310.81	3300.19
MW-5	3307.27	3299.27
MW-6	3311.85	3300.93
MW-7	3306.15	3299.61
OCD-1	3312.68	3305.18
OCD-2	3312.68	3302.15
OCD-3	3312.50	3302.50
OCD-4	3312.23	3302.29
OCD-5	3310.08	3301.85
OCD-6	3309.93	3302.39
OCD-7	3309.25	3303.17
OCD-8	3308.05	3299.88

FILENAME: EVAP-POND

CONTINENTAL OIL COMPANY

PONCA CITY, OKLAHOMA

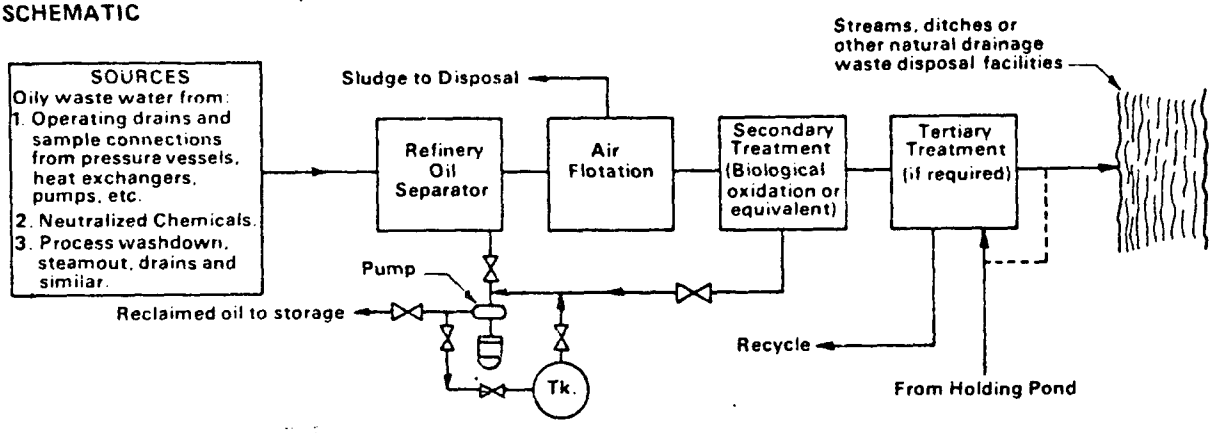
CENTRAL ENGINEERING DEPARTMENT STANDARDS

STD O-3

ISSUE No.	DATE
3	12-15-72

OILY WATER SYSTEMS

1. SCHEMATIC



2. OILY WATER SYSTEMS

2.1 Typical oily water systems as shown in Par. 1, terminate with final effluent disposal to natural drainage facilities, inland or coastal waterways, etc., or recycled to the plant.

Discharge regulations may be such that water recycle might be more desirable than having a plant effluent. These problems should be referred to:

Environmental Engineering Group
Process Engineering Department
Continental Oil Company
Ponca City, Oklahoma.

2.2 Salvagable oil shall be reclaimed and returned to slop tanks for reprocessing.

2.3 Oil-water separation facilities shall be provided for separating oil and water at all sources of oily waste which are remote from the oily water sewer system. The recovered oil shall be pumped to slop storage or collected by tank truck. The oil free water may be discharged without treatment if it is of sufficient quality. Otherwise, secondary treatment is required.

3. OFFSITE FACILITIES, UTILITIES, ETC.

3.1 Streams originating from offsite facilities, such as loading racks, pump houses, dock slop systems, ship ballast systems, hydrocarbon blowdown system drains, etc. may also enter this system.

4. REFINERY OIL SEPARATORS

4.1 Refinery oil separators shall be designed in accordance with "API Manual on Disposal of Refinery Wastes," latest edition. Parallel plate interceptors and corrugated plate interceptors are acceptable alternates.

5. RECOVERED OIL FACILITIES

5.1 Skimmed oil from oil separators, holding basins, and dock drainage shall be collected and pumped to suitably sized (normally 200-500 barrel) tanks equipped with heating coils. After separation of water, the oil shall be pumped to refinery slop tanks or crude storage unless further treatment is necessary. The separated water shall be returned to the process sewer.

6. BALLAST WATER SYSTEMS FOR TANKERS AND AT BARGE DOCKS

6.1 Tanker and/or barge ballast water shall be pumped from the vessels to a storage tank for oil removal. Recovered oil is sent to the slop oil tanks. Separated water may require treatment prior to discharge. Either a treatment facility at the dock or a tie-in to the plant treatment facility is required. Federal and state regulations should be reviewed to determine the water treatment scheme required.

7. TANKER AND BARGE DOCK DRAINAGE SYSTEM

7.1 Spilled and slopped material at tanker and barge loading docks shall be collected in suitable pans and drained to sump tanks located at docks. The collected material shall be pumped to oil recovery tanks and/or to the recovered oil sump at the oil separator.

8. SEWER SEALS

8.1 Sewer laterals shall be provided with liquid seals, either in manholes, sealed catch basins, or other suit-

able means, to isolate various areas and/or equipment where spills or leakage may occur.

8.2 Areas having accumulations of flammable gases in the sewer mains shall have manhole covers sealed or gasketed to prevent gases from escaping from the sewer and shall be provided with a four-inch minimum size vent. Vents shall extend to an area of safe release.

8.3 In areas having furnaces or other sources of ignition, manhole vents shall be run underground at least 100 feet from the source of ignition and at least ten feet above grade in a safe location. Lines shall be laid with enough slope to prevent liquid pockets.

8.4 Seals shall be provided to isolate any noxious or toxic materials that may be spilled or drained into the sewer system.

9. MATERIALS SPECIFICATIONS

9.1 Lines shall be welded carbon steel with the exterior painted one coat of asphaltum or equal.

9.2 Before backfilling, all new sewer lines shall be hydrostatically tested with a 4-foot static head of water for a minimum period of one hour. In the event repairs or additions are made in the line following the pressure tests, the affected sewer shall be retested.

RECEIVED

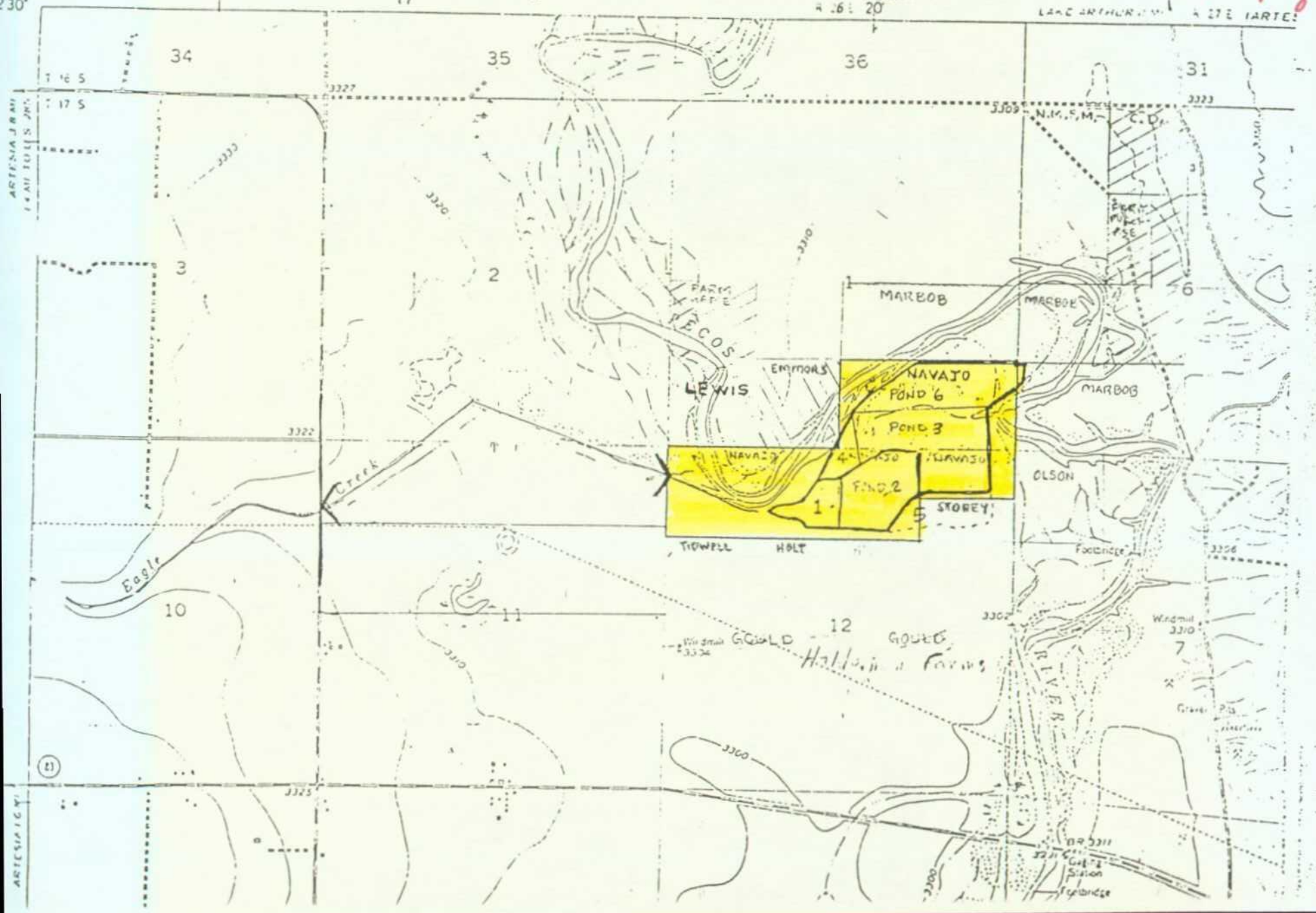
JUL 10 1990

OIL CONSERVATION DIV.
SANTA FE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

2-11 17-26

WORK copy



August 10, 1989

COMPLETION REPORT

NAVAJO EFFLUENT EVAPORATION PONDS

Pond No. 6 has been completed. The dike has been built to the elevation of 3,314 feet and has been given final grading and shaping on the sides and the top. The top is approximately twelve (12) feet wide, allowing for vehicular traffic. There are access ramps to the top at the northwest, southeast and at the point where the new dike joins the old dike. The dike slopes are approximately 3:1 all around. The height of the dike from the pond bottom varies from five (5) feet on the west end to eleven (11) feet on the east end. The project has proceeded reasonably well and has been built substantially according to the plans.

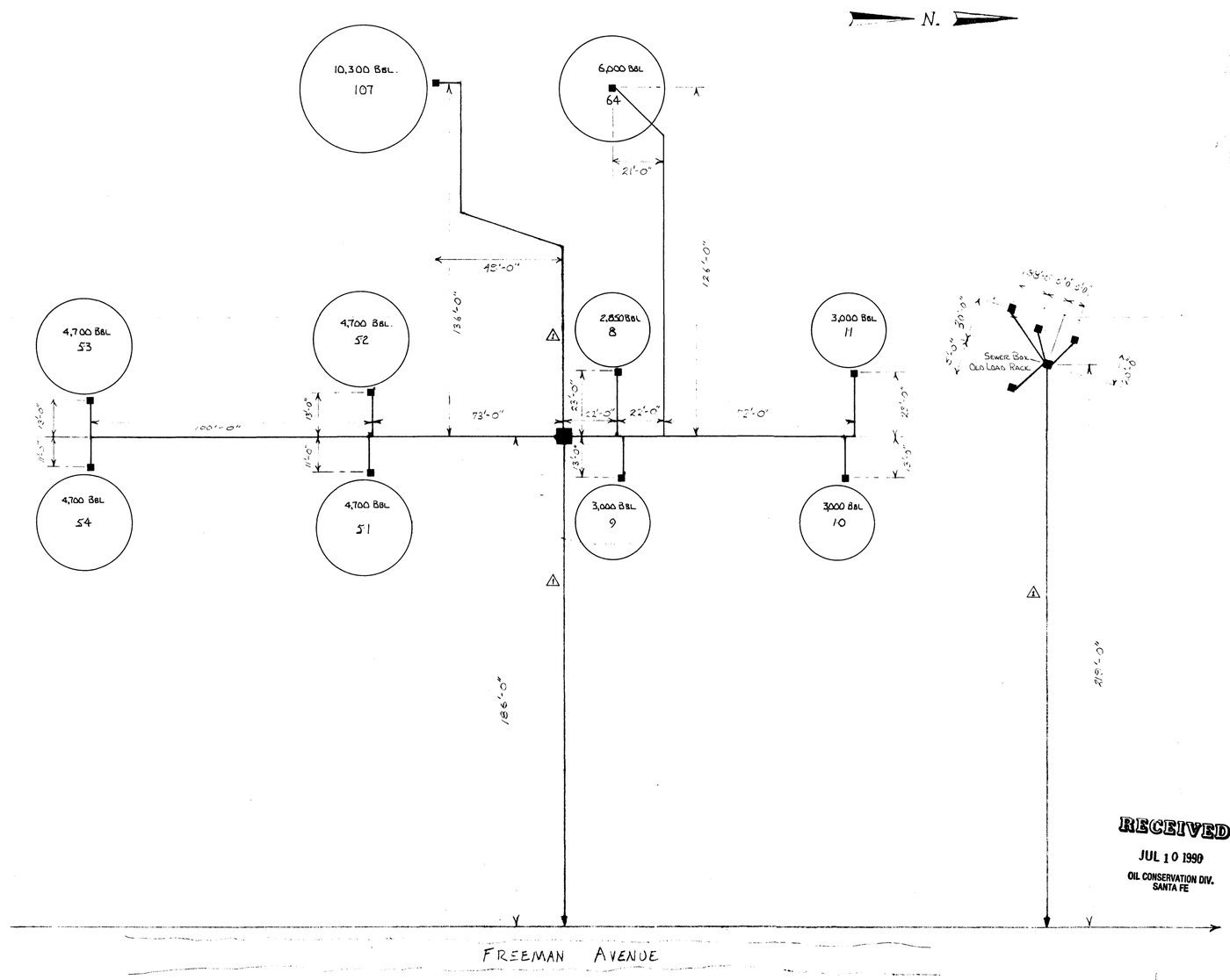
The only problems were encountered at the beginning of the project and were reported in the May 10th report. Soils on site had at least 70%, passing the No. 200 screen indicating soils with high volume change. Reducing the specified density from 95% to 90% was necessary due to these soils. This change allowed the Contractor to meet density requirements in all areas of the keyway and dike except the East dike where the compaction equipment used caused pumping from the high ground water table in the corner. On the keyway of the East dike densities of 86% to 87% were achieved.

After discussions between the Soils Engineer and myself, the Field Engineer, we decided to begin backfilling the keyway after letting it set for two days in hopes of allowing the groundwater to stabilize. We felt that further work on the keyway would only aggravate the situation. We also felt the keyway as cut and compacted would meet the intent of the design and prevent any sliding of the dike. This solution allowed project to proceed and no further problems were encountered.

Bill McFarland, P.E.
Project Monitor

Bill McFarland

WORK COPY



REFERENCE DWG: SHT 1 NORTH DIVISION - PLOT PLAN OF PROCESS AREA & SEWER LINES

RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

NORTH DIVISION

SOUTH TANK FARM - SEWER SYSTEM

REVISIONS		
NO.	DATE	BY
1	5-26-71	JAS
2		
3		
4		
5		

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY R. LUARD	SCALE 1" = APPROX. 24'	MATERIAL
CHK'D	DATE 1-11-73	DRAWING NO. 102-07-D
TRACED	APP'D	

NO. 173PTM - 20X30

Work copy

TELEPHONE
(505) 748-3311

EASYLINK
62905278

Navajo REFINING COMPANY
501 EAST MAIN STREET • P. O. DRAWER 159

ARTESIA, NEW MEXICO 88210

March 17, 1988

Mr. David Boyer
Hydrogeologist
P.O. Box 2088
Santa Fe, New Mexico 87501

RE: Navajo Refininery Commitments For Discharge Plan

Dear Mr. Boyer:

Please find enclosed copies of plans and specifications for Navajo's evaporation ponds expansion project. We have provided Mr. Don Lopez of the State Engineer's Office the originals for his review.

Contact me at (505) 748-3311 if I can be of any further assistance.

Regards,

Zeke Sherman
Environmenatl Engineer

ZRS:ks
Enclosures

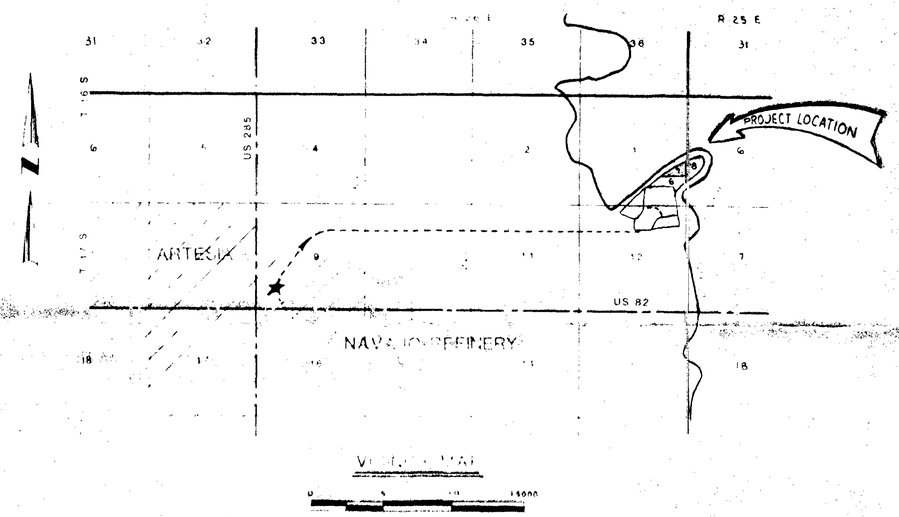
Memo to file on
Phone conversation with Zeke Sherman 3/21:
This letter is only correspondence regarding 3/11/88 Navajo Commitments for Discharge Plan.
Therefore, Commitments are now binding.
D.B. Boyer
3/21/88

NAVAJO REFINING COMPANY

ARTESIA, NEW MEXICO

EFFLUENT EVAPORATION PONDS

MARCH 1988



NAVAJO EFFLUENT EVAPORATION PONDS

NAVAJO REFINING COMPANY APPLICANT, LOCATED IN EDDY COUNTY, STATE OF NEW MEXICO. ALL COURSES TRUE. THE UNDERSIGNED, NAVAJO REFINING COMPANY, CLAIMANT, WHOSE POST OFFICE ADDRESS IS P.O. DRAWER 159, ARTESIA, COUNTY OF EDDY, STATE OF NEW MEXICO, HAS CAUSE TO BE LOCATED BY A QUALIFIED REGISTERED ENGINEER THE NAVAJO EFFLUENT EVAPORATION PONDS AS HEREINAFTER DESCRIBED AND INDICATED. HEREBY MAKES THESE SEVERAL STATEMENTS RELATIVE THERE AND OFFERS THIS MAP AND STATEMENTS FOR ACCEPTANCE AND FILING IN COMPLIANCE WITH THE LAWS OF THE STATE OF NEW MEXICO.

THE IRREGULAR SHAPED EFFLUENT EVAPORATION PONDS CONSIST OF 51 TOTAL ACRES. THE CENTER OF THE EFFLUENT EVAPORATION PONDS IS SITUATED AT THE NW ¼, OF SE ¼, OF SE ¼ OF SECTION 1, T. 17 S. R. 26 E. EDDY COUNTY, NEW MEXICO.

STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

I, D. O. STEVENSON, BEING FIRST DULY SWORN, UPON MY OATH, STATE I AM THE VICE PRESIDENT OF REFINING OF THE NAVAJO REFINING COMPANY, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, THAT THE ACCOMPANYING MAP AND STATEMENTS (MAPS AND STATEMENTS CONSISTING OF 2 SHEETS) WERE MADE UNDER AUTHORITY OF THE BOARD OF DIRECTORS OF SAID CORPORATION, AND THAT, IN THEIR BEHALF, I HAVE READ AND EXAMINED THE STATEMENTS AND REPRESENTATIONS THEREON AND STATE THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

D. O. Stevenson
AUTHORITY CLAIMANT

BY _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS 15th DAY OF March, 1988.

Sandra Earl
NOTARY PUBLIC

NOTARY PUBLIC STATE OF NEW MEXICO

MY COMMISSION EXPIRES:
July 24, 1988

STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

I, W. C. CHAMBERLAIN, STATE THAT I AM A REGISTERED PROFESSIONAL ENGINEER, NO. 25568, QUALIFIED IN CHEMICAL ENGINEERING AND THAT THE ACCOMPANYING PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

W. C. Chamberlain
W. C. CHAMBERLAIN
TEXAS REGISTERED
PROFESSIONAL ENGINEER
NO. 25568

STATE OF TEXAS W. C. CHAMBERLAIN 25568 REGISTERED PROFESSIONAL ENGINEER

SUBSCRIBED AND SWORN TO BEFORE ME THIS 15th DAY OF March, 1988.

Sandra Earl
NOTARY PUBLIC

NOTARY PUBLIC STATE OF NEW MEXICO

MY COMMISSION EXPIRES:
July 24, 1988

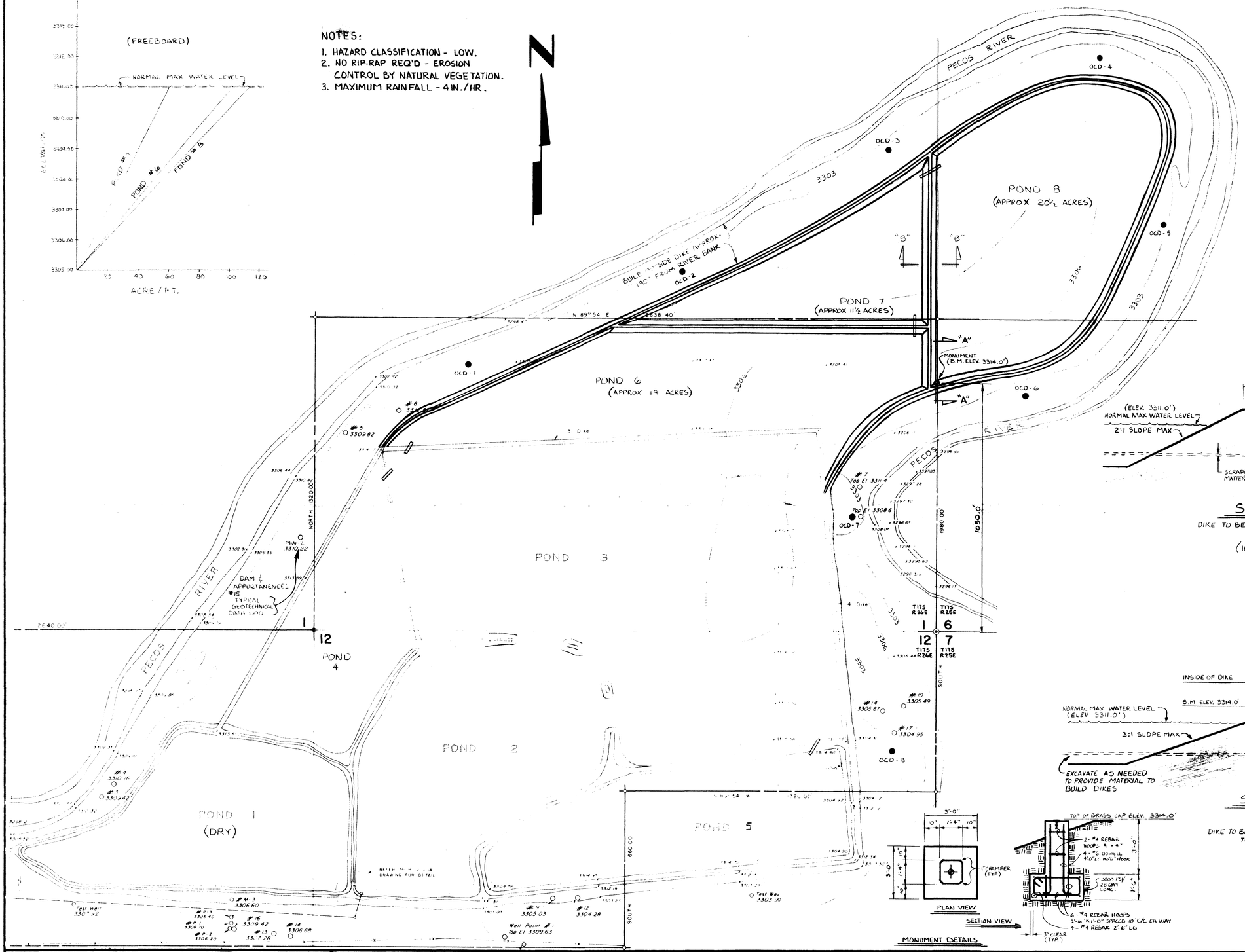
STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

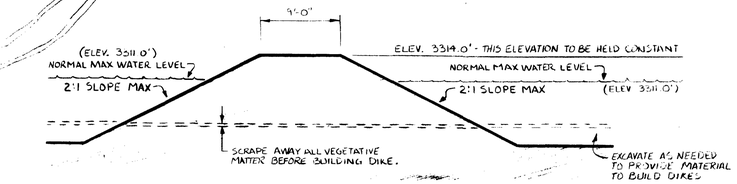
I HEREBY CERTIFY THAT THE ACCOMPANYING PLANS AND SPECIFICATIONS HAVE BEEN DULY EXAMINED BY ME AND APPROVED AS TO FORM AND CONTENT, AND WERE DULY ACCEPTED FOR FILING ON THE ____ DAY OF _____, 1988.

_____
FOR STATE ENGINEER

NOTES:

1. HAZARD CLASSIFICATION - LOW.
2. NO RIP-RAP REQ'D - EROSION CONTROL BY NATURAL VEGETATION.
3. MAXIMUM RAINFALL - 4 IN./HR.

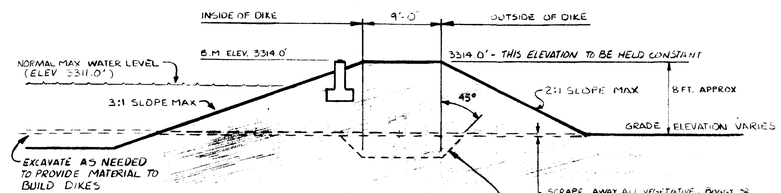




SECTION "B-B"

DIKE TO BE BUILT IN 9" LIFTS - COMPACTED TO 95% PROCTOR.

(INTERNAL DIKE)
SCALE 1/8" = 1'-0"



SECTION "A-A"

SCALE: 1/8" = 1'-0"

DIKE TO BE BUILT IN .5' LIFTS - COMPACTED TO 95% PROCTOR

MONUMENT DETAILS

SHT 2 OF 2

NOTES

PROPOSED CONSTRUCTION SHOWN W/ COLD LINES

● PROPOSED OCD MONITOR WELLS

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	ISSUE FOR APPROVAL OF PONDS 6,7,8	JJW	[illegible]	2/4/88	[illegible]	
2	ADDITION OF OCD APPROVED MONITOR WELLS	JJW	[illegible]	[illegible]	[illegible]	
3	ADDITION OF PONDS 6,7, & 8	JJW				

DRAWING TITLE EFFLUENT EVAPORATION PONDS

(ADDITION OF PONDS 6, 7 & 8)

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

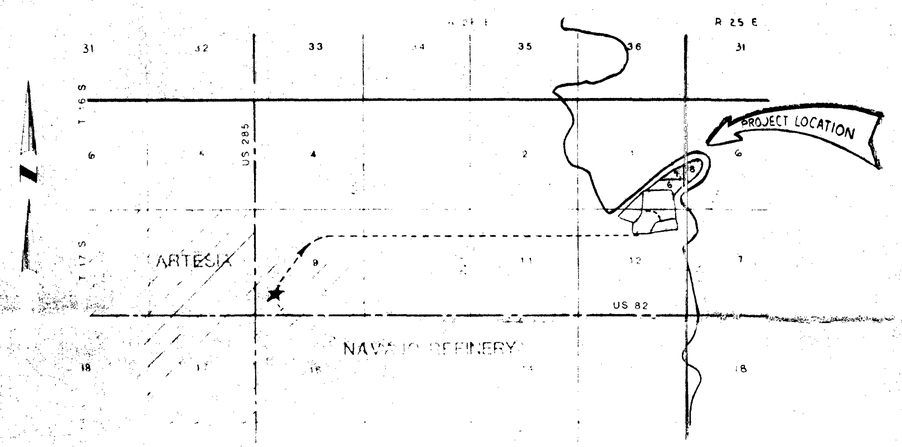
DRAWN BY	CHK'D BY	SCALE	
JJW	[illegible]	1" = 200'	
DATE 2-9-88	DATE 2/9/88	DRAWING NO. 102 - 25 - D	REV.

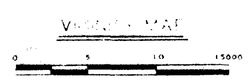
NAVAJO REFINING COMPANY

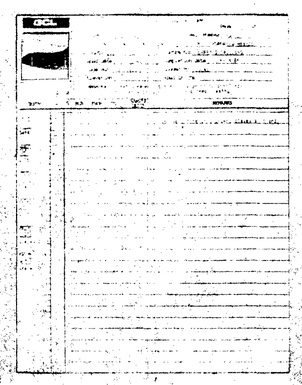
ARTESIA, NEW MEXICO

EFFLUENT EVAPORATION PONDS

MARCH 1988







NAVAJO EFFLUENT EVAPORATION PONDS

NAVAJO REFINING COMPANY APPLICANT, LOCATED IN EDDY COUNTY, STATE OF NEW MEXICO. ALL COURSES TRUE. THE UNDERSIGNED, NAVAJO REFINING COMPANY, CLAIMANT, WHOSE POST OFFICE ADDRESS IS P. O. DRAWER 159, ARTESIA, COUNTY OF EDDY, STATE OF NEW MEXICO, HAS CAUSE TO BE LOCATED BY A QUALIFIED REGISTERED ENGINEER THE NAVAJO EFFLUENT EVAPORATION PONDS AS HEREINAFTER DESCRIBED AND INDICATED, HEREBY MAKES THESE SEVERAL STATEMENTS RELATIVE THERE AND OFFERS THIS MAP AND STATEMENTS FOR ACCEPTANCE AND FILING IN COMPLIANCE WITH THE LAWS OF THE STATE OF NEW MEXICO.

THE IRREGULAR SHAPED EFFLUENT EVAPORATION PONDS CONSIST OF 51 TOTAL ACRES. THE CENTER OF THE EFFLUENT EVAPORATION PONDS IS SITUATED AT THE NW ¼, OF SE ¼, OF SE ¼ OF SECTION 1, T. 17 S, R. 26 E, EDDY COUNTY, NEW MEXICO.

STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

I, D. O. STEVENSON, BEING FIRST DULY SWORN, UPON MY OATH, STATE I AM THE VICE PRESIDENT OF REFINING OF THE NAVAJO REFINING COMPANY, A CORPORATION DULY ORGANIZED UNDER THE LAWS OF THE STATE OF DELAWARE, THAT THE ACCOMPANYING MAP AND STATEMENTS (MAPS AND STATEMENTS CONSISTING OF 2 SHEETS) WERE MADE UNDER AUTHORITY OF THE BOARD OF DIRECTORS OF SAID CORPORATION, AND THAT, IN THEIR BEHALF, I HAVE READ AND EXAMINED THE STATEMENTS AND REPRESENTATIONS THEREON AND STATE THAT THE SAME ARE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

D. O. Stevenson
AUTHORITY CLAIMANT

BY _____

SUBSCRIBED AND SWORN TO BEFORE ME THIS 15th DAY OF March, 1988.

Sandra Earl
NOTARY PUBLIC

NOTARY PUBLIC STATE OF NEW MEXICO

MY COMMISSION EXPIRES:
July 24, 1988

STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

I, W. C. CHAMBERLAIN, STATE THAT I AM A REGISTERED PROFESSIONAL ENGINEER, NO. 25568, QUALIFIED IN CHEMICAL ENGINEERING AND THAT THE ACCOMPANYING PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

W. C. Chamberlain
W. C. CHAMBERLAIN
TEXAS REGISTERED
PROFESSIONAL ENGINEER
NO. 25568

STATE OF TEXAS W. C. CHAMBERLAIN 25568 REGISTERED PROFESSIONAL ENGINEER

SUBSCRIBED AND SWORN TO BEFORE ME THIS 15th DAY OF March, 1988.

Sandra Earl
NOTARY PUBLIC

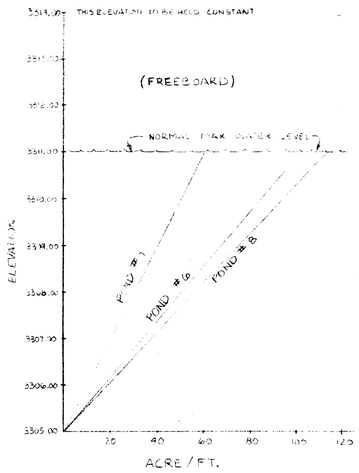
NOTARY PUBLIC STATE OF NEW MEXICO

MY COMMISSION EXPIRES:
July 24, 1988

STATE OF NEW MEXICO)
:SS
COUNTY OF EDDY)

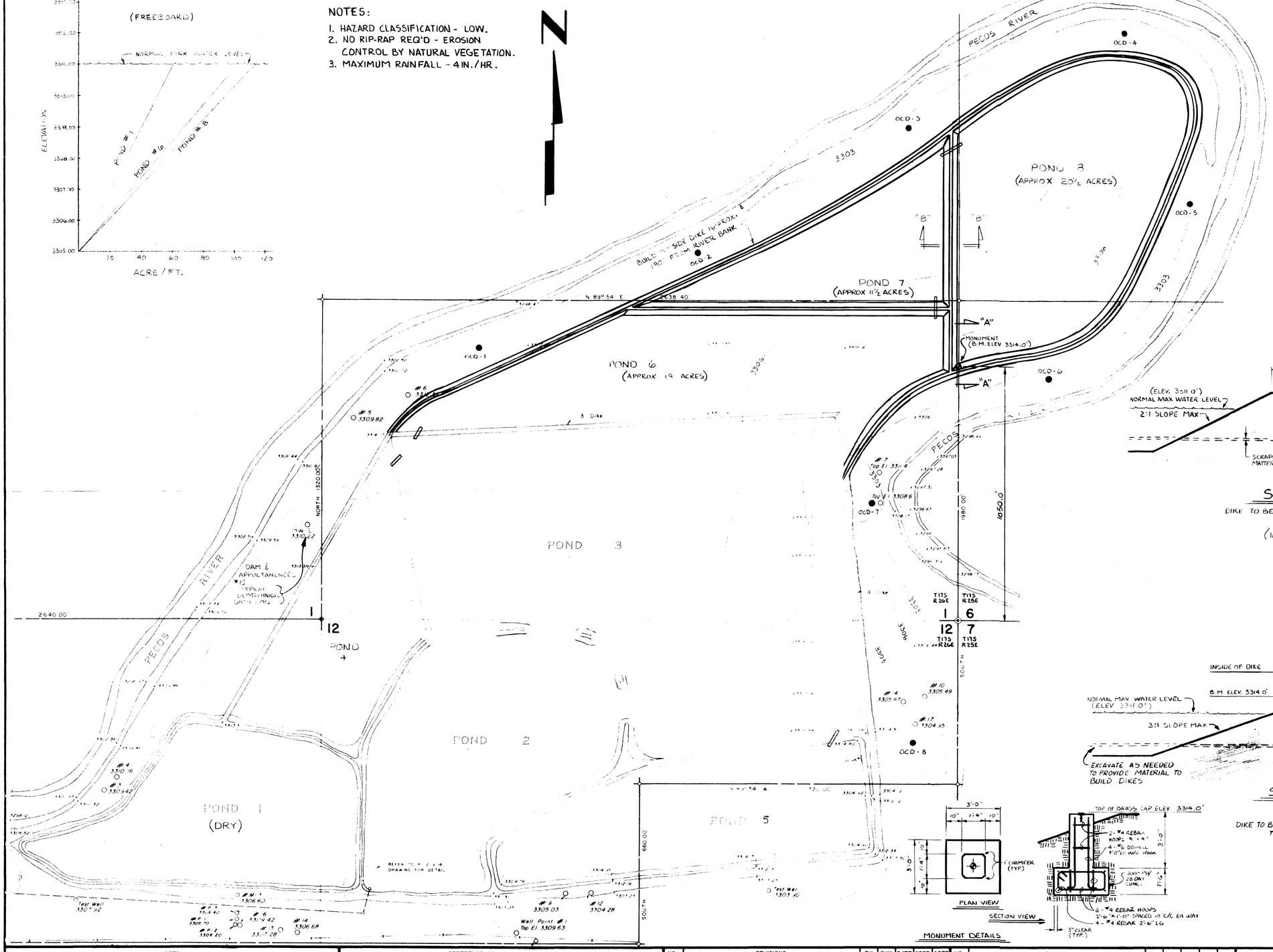
I HEREBY CERTIFY THAT THE ACCOMPANYING PLANS AND SPECIFICATIONS HAVE BEEN DULY EXAMINED BY ME AND APPROVED AS TO FORM AND CONTENT, AND WERE DULY ACCEPTED FOR FILING ON THE _____ DAY OF _____, 1988.

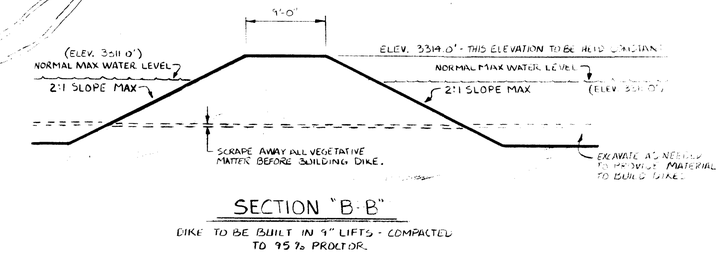
_____
FOR STATE ENGINEER



NOTES:

1. HAZARD CLASSIFICATION - LOW.
2. NO RIP-RAP REQ'D - EROSION CONTROL BY NATURAL VEGETATION.
3. MAXIMUM RAINFALL - 4 IN./HR.

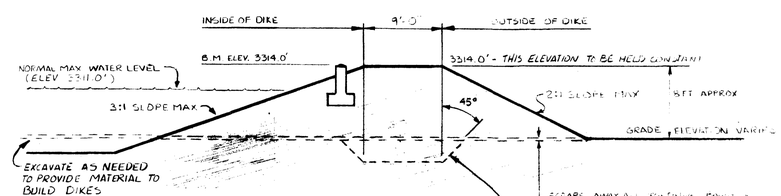




SECTION "B-B"

DIKE TO BE BUILT IN 9" LIFTS - COMPACTED TO 95% PROCTOR.

(INTERNAL DIKE)
SCALE 1/8" = 1'-0"



SECTION "A-A"

SCALE: 1/8" = 1'-0"

DIKE TO BE BUILT IN .5' LIFTS - COMPACTED TO 95% PROCTOR

MONUMENT DETAILS

SHT 2 OF 2

NOTES

PROPOSED CONSTRUCTION SHOWN W/ DOUBLE LINES

● PROPOSED OCD MONITOR WELLS

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

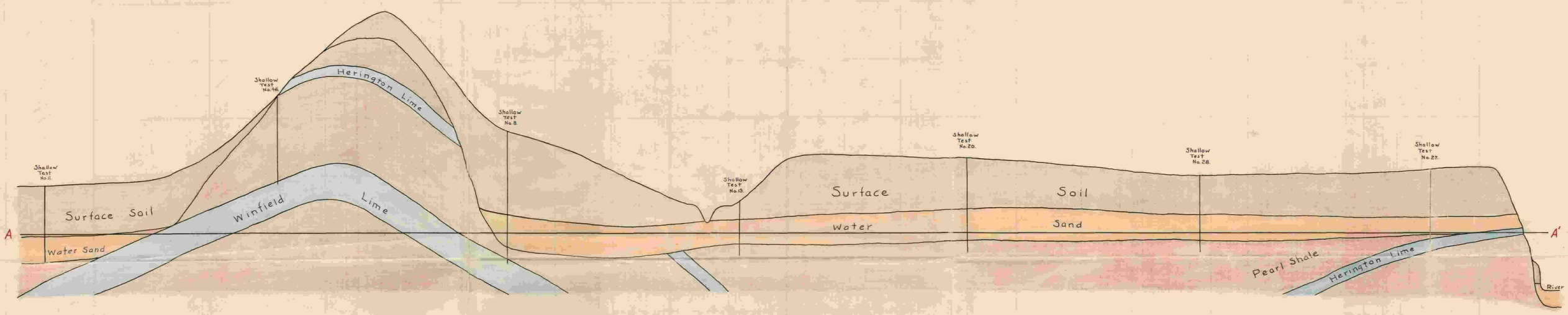
NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	ISSUE FOR APPROVAL OF PONDS 6,7 & 8	JJW	[illegible]	2/4/88	[illegible]	
2	ADDITION OF OCD APPROVED MONITOR WELLS	JJW	[illegible]	[illegible]	[illegible]	
3	ADDITION OF PONDS 6,7 & 8	JJW				

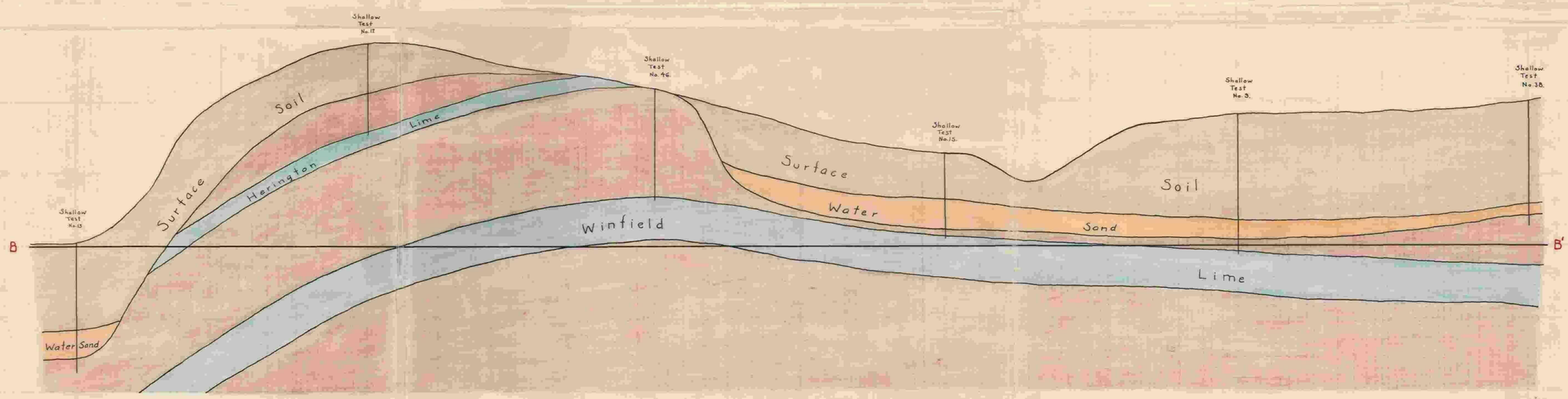
DRAWING TITLE: **EFFLUENT EVAPORATION PONDS**

(ADDITION OF PONDS 6, 7 & 8)

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
JJW	[illegible]	1" = 200'	
DATE 2-9-88	DATE 2/9/88	DRAWING NO 102-25-D	REV.

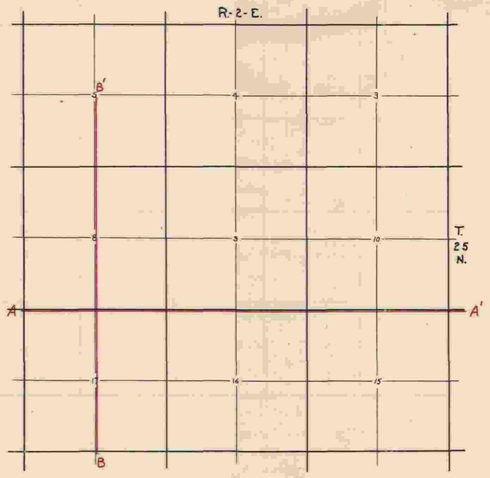




CROSS SECTIONS

Showing the extent, thickness and attitude of recent water bearing sand deposits in the vicinity of the South Ponca Field.

Scale Vertical 1 inch = 20 feet.
Horizontal 1 inch = 2000 feet.



COMPOSITE PLOT PLAN
NORTH & SOUTH DIVISION
AS OF AUGUST 11, 1976

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

REVISIONS

NO.	DATE	BY	
1	7/81	A.D.	UPDATED
2	7/85	JJW	UPDATED
3			
4			
5			

DRAWN BY V.A.	SCALE 1" = 150'	MATERIAL
CHK'D N.R.L.	DATE 9-15-76	DRAWING NO. 55-Z-1-D
TRACED	APP'D	

FOR REFERENCE ONLY
AUG 5 1987

NORTH PLANT

TK.	DIA	HT	BBLS	CONTENTS	DWG. NO.
4				CAUSTIC	13-301-D
6	20	11	600	SLOP-N.D.	08-69-D
8	28	30	3100	SLOP-N.D.	
9	28	30	3100	DES. NAPHTHA	
10	28	30	3100	RAW KERO.	
11	28	30	3100	RAW KERO.	
12	10	37L	450	BRINE STOR.	
17	10	16	220	SLOP-N.D.	08-69-D
18	29	24	2300	SLOP	08-248-D
19	21	16	825	OUT OF SERVICE	
22	4	41L	80	RAW CAUSTIC	
23	4	41L	80	STOR & CAUSTIC SCRUB	

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
51	35	29	5000	DES. NAPHTHA	
52	35	29	5000	RAW KERO	
53	35	30	5100	JET A	
54	35	30	5100	JET A	
55	48	36	11300	JET A	08-93-D
56	48	36	10800	RAW NAPHTHA	
57	90	48'8"	50000	RAW NAPHTHA	
58	35	30	5000	L.C.O.	08-248-D
59	35	30	5100	SLURRY	08-248-D
60	35	30	5100	SLURRY	08-248-D
61	50	30	10500	L.C.O.	08-248-D
62	50	30	10500	SLURRY	08-248-D
63	51	30	10700	SLURRY	08-248-D
400	120	48	96300	GAS OIL	08-220-D
436	11	30L	420	MEA SOLUTION	
437	120	45	85400	SOUR CRUDE	08-41-D
437	130	48	108000	SOUR CRUDE	08-40-D
736					07-01-D
835	111	40	61000	SWEET CRUDE	55-220-D
836	50	31	10500	SWEET CRUDE	55-220-D
837	78	30	24100	STAR DIESEL	08-107-D
838	74	40	29400	STAR DIESEL	08-107-D
839				COND. RECEIVE	39-02-D
840				SOFT WATER SURGE TANK	39-02-D

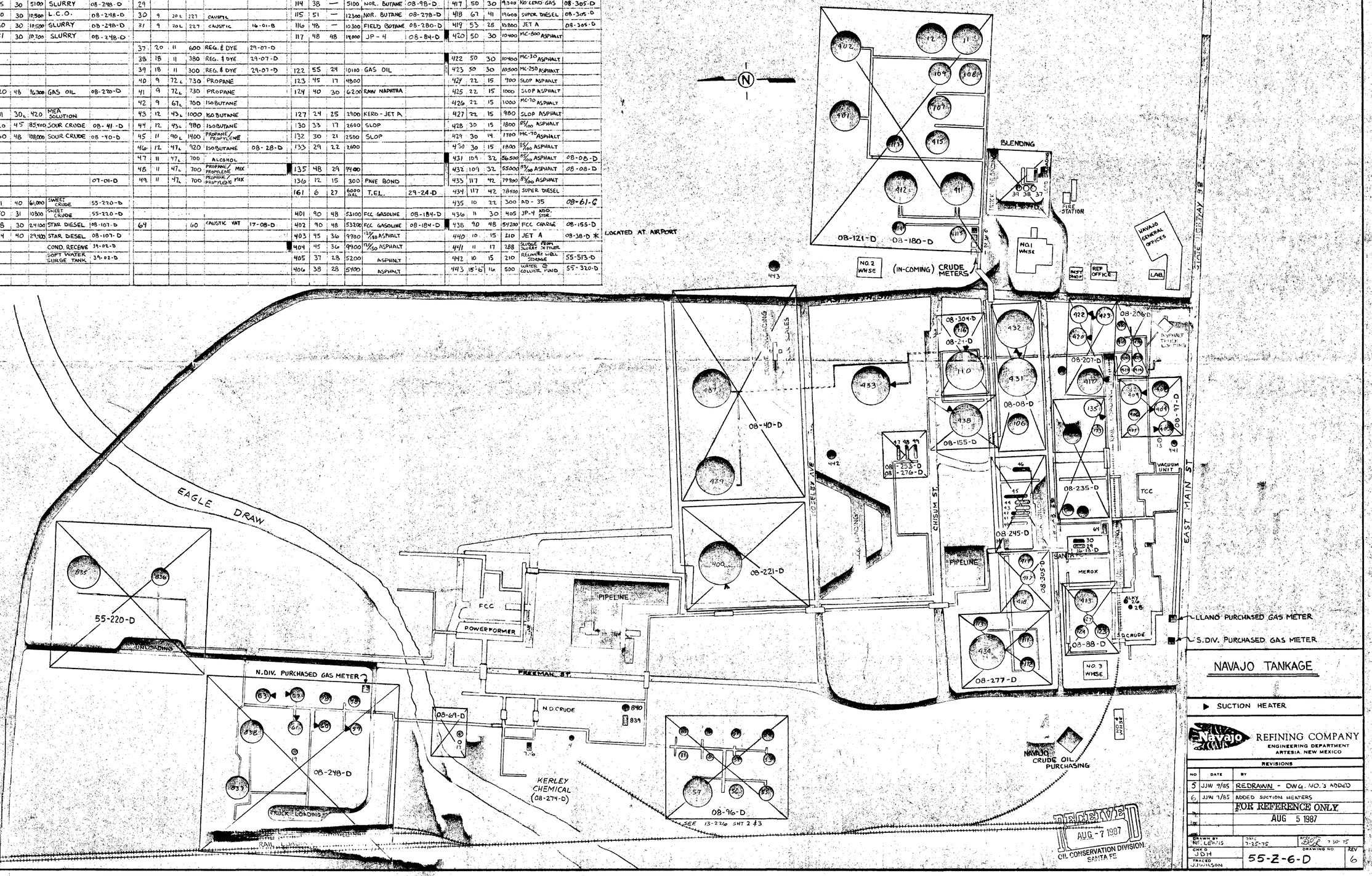
SOUTH PLANT

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
7	22	15	1000	SLOP	55-518-D
11	89	29	32600	POWERFORMATE	08-83-D
12	88	29	32300	POWERFORMATE	08-85-D
13	10	20	250	SLOP	
26	19	15	600	BRINE	43-
27	8	14	125	ALCOHOL	
28	10	18	250	SCRUBBER LIME H_2O	43-
29					
30	9	20L	227	CAUSTIC	
31	9	20L	227	CAUSTIC	16-01-B
37	20	11	600	REG. & DYE	29-07-D
38	18	11	380	REG. & DYE	29-07-D
39	18	11	300	REG. & DYE	29-07-D
40	9	72L	730	PROPANE	
41	9	72L	730	PROPANE	
42	9	67L	700	ISOBUTANE	
43	12	43L	1000	ISOBUTANE	
44	12	43L	980	ISOBUTANE	
45	11	90L	1400	PROPANE/PROPYLENE	
46	12	47L	920	ISOBUTANE	08-28-D
47	11	47L	700	ALCOHOL	
48	11	47L	700	PROPANE/PROPYLENE MIX	
49	11	47L	700	PROPANE/PROPYLENE MIX	
64		60		CAUSTIC VAT	17-08-D

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
106	67	40	21800	NO LEAD GAS	08-08-D
107	67	40	21800	ALKYLATE	08-84-D
108	67	40	22900	BASE	08-83-D
109	67	40	22300	BASE	08-85-D
110	108	35	57900		08-63-D
111	49	30	9100	REG. GAS	
112	49	30	10400		
113	48	—	10300	MTBE	08-212-D
114	38	—	5100	NOR. BUTANE	08-98-D
115	51	—	12300	NOR. BUTANE	08-278-D
116	98	—	10300	FIELD BUTANE	08-280-D
117	48	48	14000	JP-4	08-84-D
122	55	24	10100	GAS OIL	
123	45	17	4800		
124	40	30	6200	RAW NAPHTHA	
127	24	25	2900	KERO-JET A	
130	33	17	2600	SLOP	
132	30	21	2500	SLOP	
133	24	22	2600		
135	48	24	14400		
136	12	15	300	PAVE BOND	
161	6	27	6000 GAL	T.EL.	29-24-D
401	90	48	53100	FCC GASOLINE	08-184-D
402	90	48	53200	FCC GASOLINE	08-184-D
403	45	36	9900	12% 88% ASPHALT	
404	45	36	9900	12% 88% ASPHALT	
405	37	28	5200	ASPHALT	
406	38	28	5400	ASPHALT	

TK	DIA	HT	BBLS	CONTENTS	DWG. NO.
408	55	24	10100	CUTTER STOCK	
409	67	40	25100	85/100 ASPHALT	
410	79	40	35100	85/100 ASPHALT	
411	100	40	52,100		
412	100	40	51900		
413	67	39	21,900	REG. GASOLINE	
415	67	39	29,900		08-84-D
417	50	30	9300	NO LEAD GAS	08-305-D
418	67	41	19600	SUPER DIESEL	08-305-D
419	53	28	10800	JET A	08-305-D
420	50	30	10400	MC-800 ASPHALT	
422	50	30	10400	MC-30 ASPHALT	
423	50	30	10500	MC-250 ASPHALT	
424	22	15	900	SLOP ASPHALT	
425	22	15	1000	SLOP ASPHALT	
426	22	15	1000	MC-70 ASPHALT	
427	22	15	980	SLOP ASPHALT	
428	30	15	1800	85/100 ASPHALT	
429	30	14	1700	MC-70 ASPHALT	
430	30	15	1800	85/100 ASPHALT	
431	109	32	56500	85/100 ASPHALT	08-08-D
432	109	32	55000	85/100 ASPHALT	08-08-D
433	117	42	79900	85/100 ASPHALT	
434	117	42	78900	SUPER DIESEL	
435	10	22	300	AD-35	08-61-C
436	11	30	405	JP-4 ADD. STOR.	
438	90	48	54200	FCC CHARGE	08-155-D
440	10	15	210	JET A	08-38-D *
441	11	17	288	SLUDGE FROM SLURRY SETTLER	
442	10	15	210	REFINERY WELL STORAGE	55-513-D
443	15'-6"	16	500	WATER @ COLLECT. POND	55-320-D

* LOCATED AT AIRPORT



NAVAJO TANKAGE

▶ SUCTION HEATER

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

REVISIONS

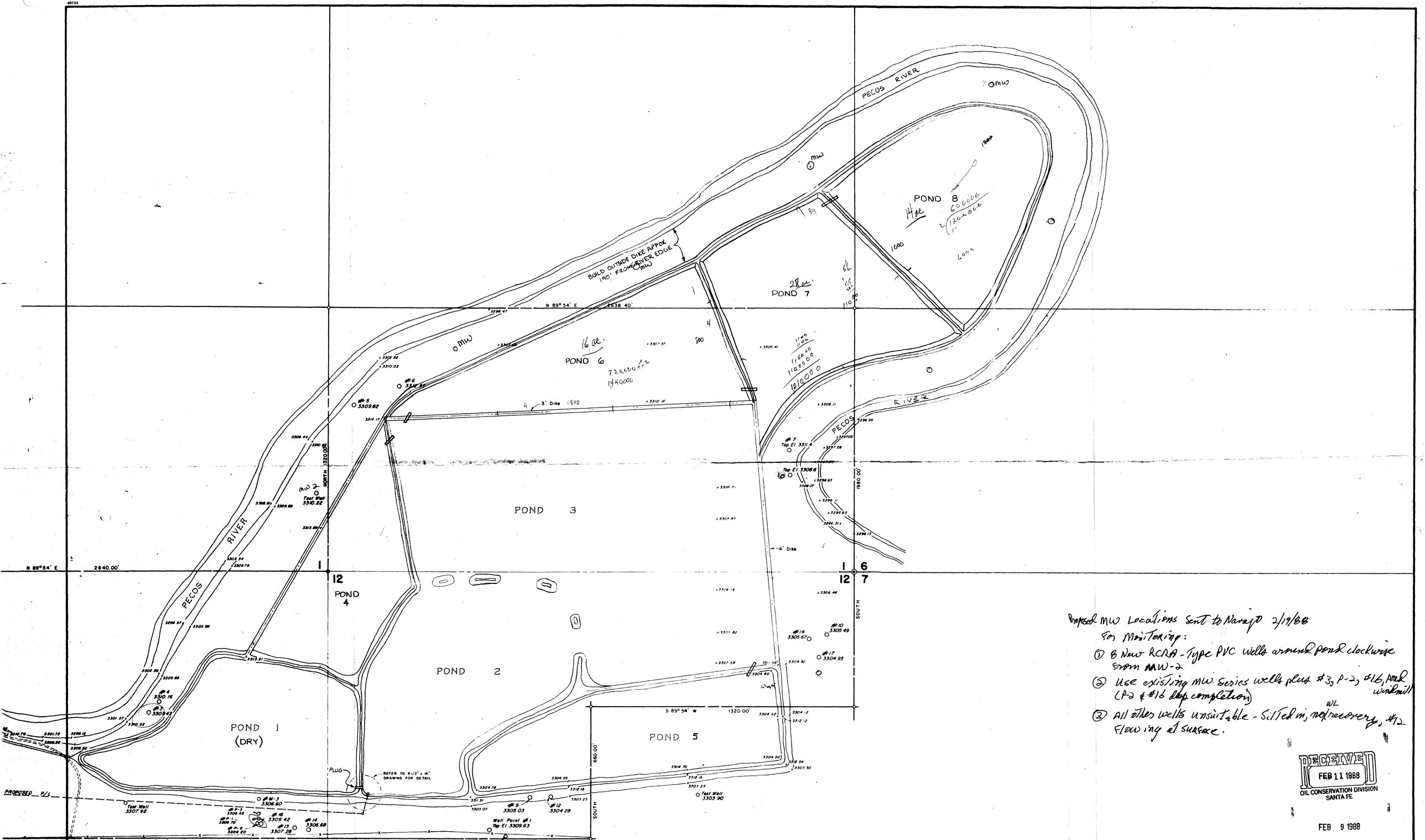
NO	DATE	BY	
5	JJW 9/85	REDRAWN - DWG. NO.'S ADDED	
6	JJW 7/85	ADDED SUCTION HEATERS	

FOR REFERENCE ONLY
AUG 5 1987

RECEIVED
AUG 7 1987
OIL CONSERVATION DIVISION
SANTA FE

DRAWN BY M. LEWIS	DATE 7-25-75	APD. BCL 7-30-75
CHK'D JDH	DRAWING NO 55-Z-6-D	REV 6
TRACED JJWILSON		

90723



Proposed MW Locations sent to Navajo 2/19/88 for Monitoring:

1. 8 New RCRA-Type PVC Wells around pond clockwise from MW-2
2. Use existing MW Series wells plus #3, P-2, #16, pond windmill (P-2 & #16 deep completion)
3. All other wells unsuitable - Silted in, no recovery, #12 flowing at surface. WL

RECEIVED
FEB 11 1988
OIL CONSERVATION DIVISION
SANTA FE

FEB 9 1988

NOTES

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	[redacted] PONDS 6,7 & 8	JJW		3/4/88		

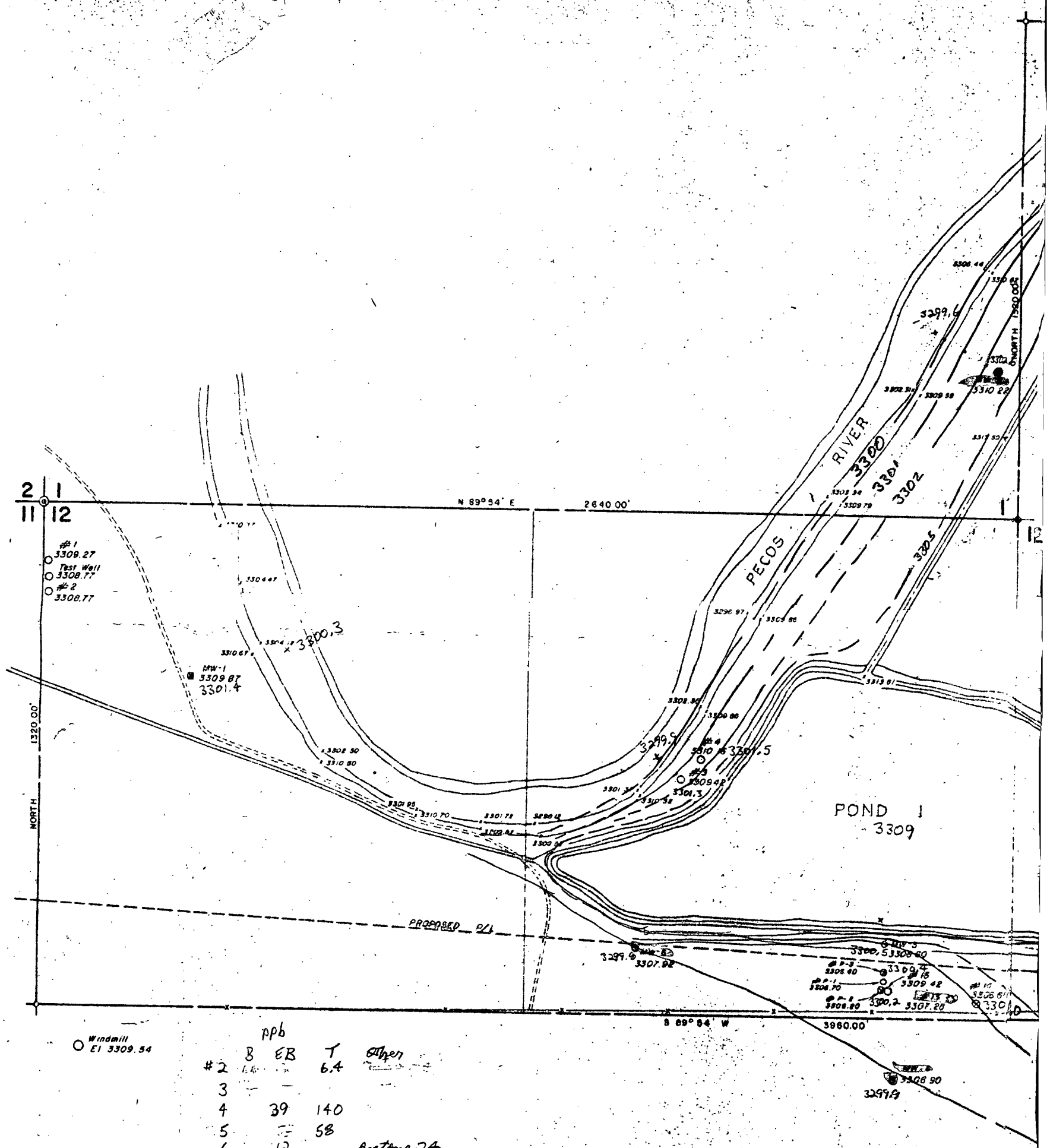
DRAWING TITLE

EVAPORATION PONDS

ADDITION OF PONDS 6, 7 & 8

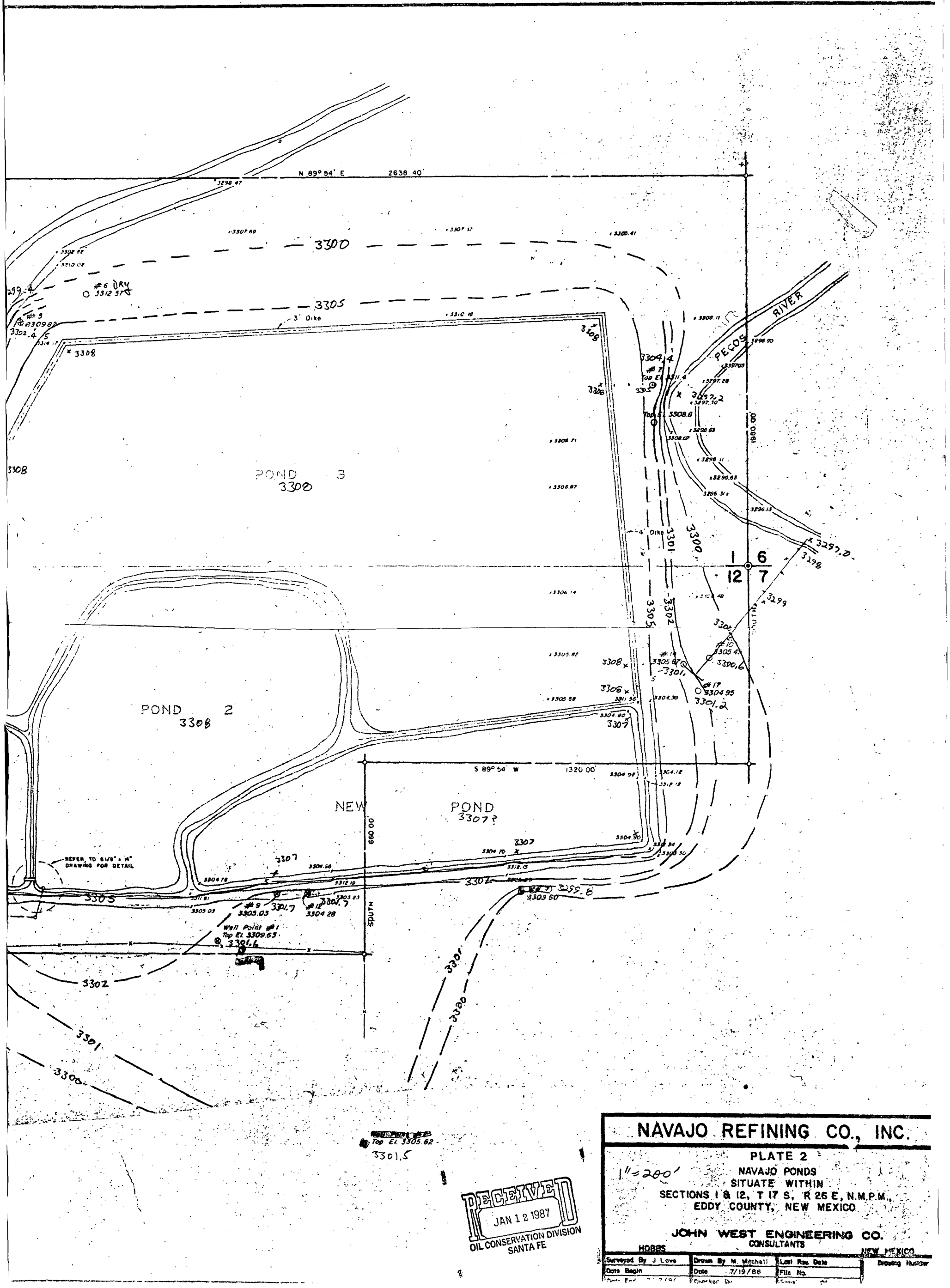
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
JJW		1" = 200'	
DATE	DATE	DRAWING NO.	REV.
2-9-88		102 - 25 - D	

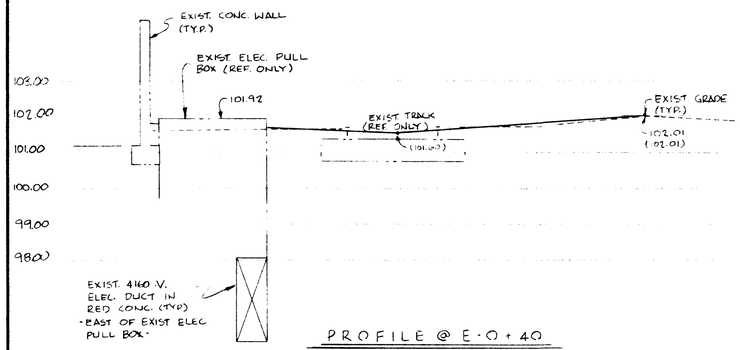


	ppb B	EB	T	Other
#2	[illegible]	[illegible]	6.4	
3	—	—		
4	39	140		
5	—	58		
6	12			Acetone-74
7	[illegible]	7.2		
#13	5			2,4-Dimethylphenol-19
WP#2	70	70		
#1				

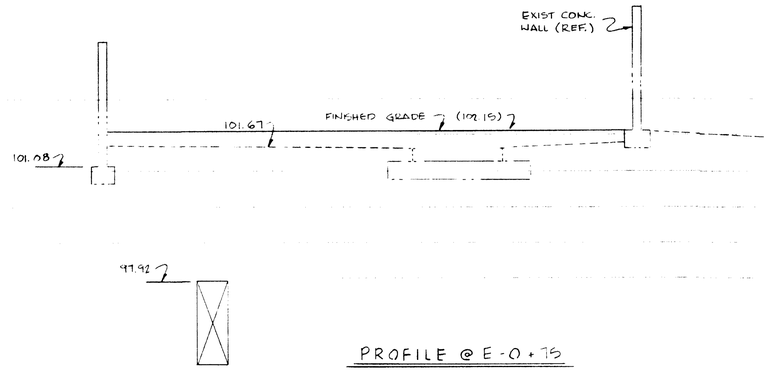
Attachment to 3/30/87 Ltr. to Navajo
Water Level Contours 8/7/86
Contours plotted: 3300, 3301, 3302, 3305 ft
Drawn by RJB 3/17/87 (OCD)



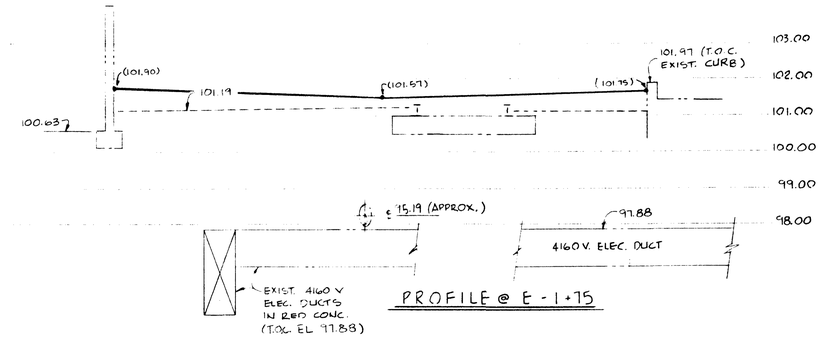
90733



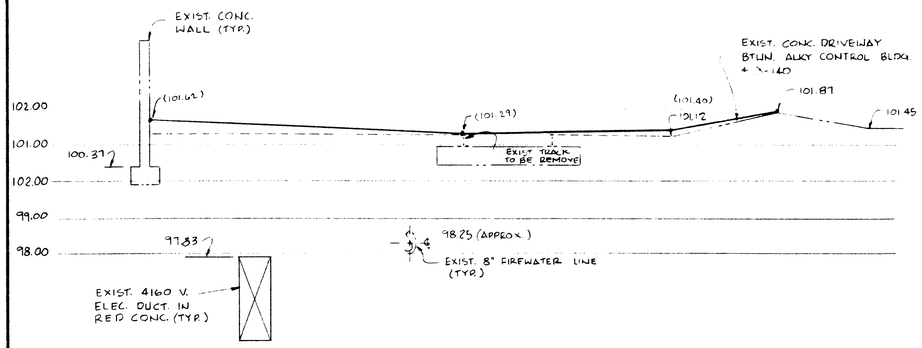
PROFILE @ E-0+40



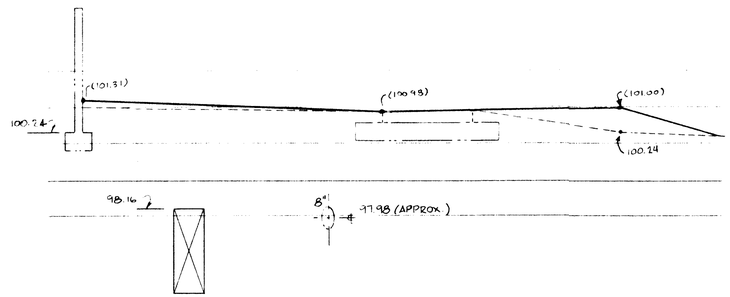
PROFILE @ E-0+75



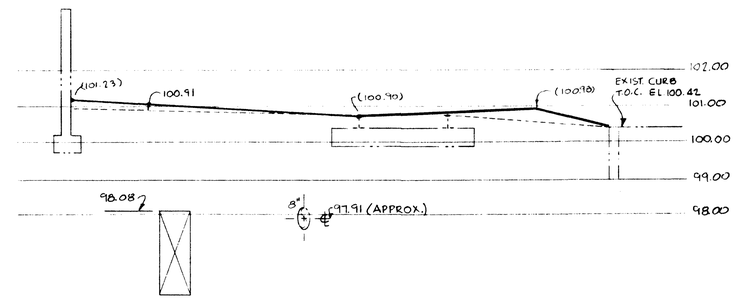
PROFILE @ E-1+75



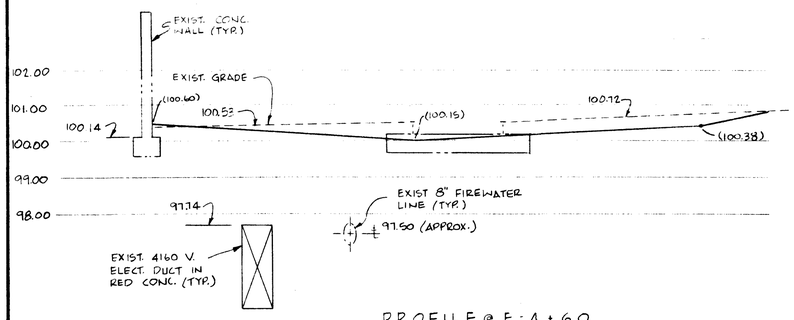
PROFILE @ E-2+40



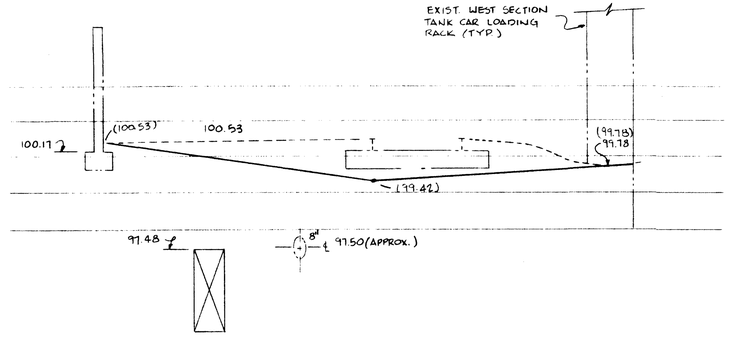
PROFILE @ E-3+00



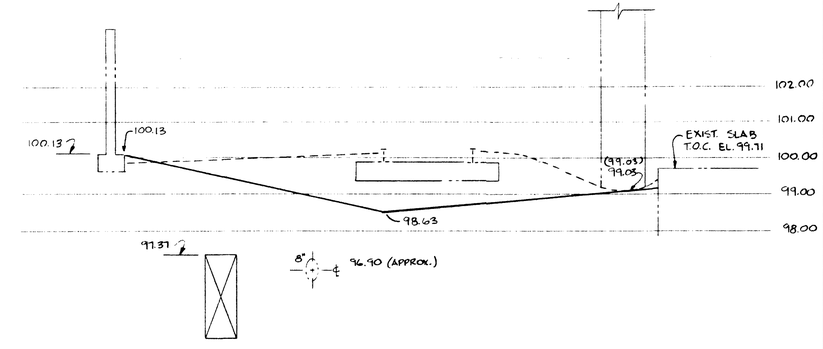
PROFILE @ E-3+15



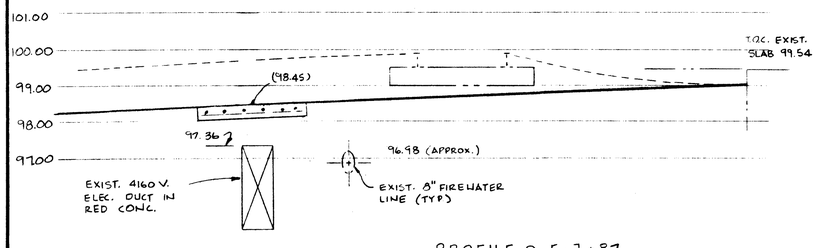
PROFILE @ E-4+60



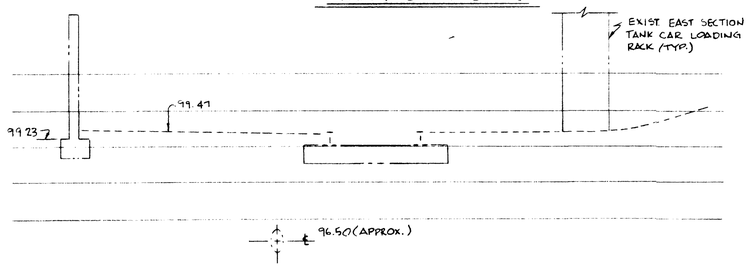
PROFILE @ E-6+05



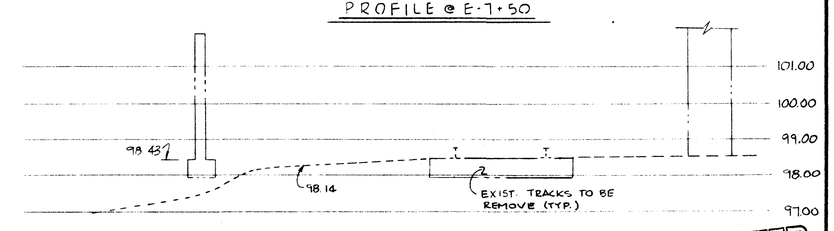
PROFILE @ E-7+50



PROFILE @ E-7+87



PROFILE @ E-8+35



PROFILE @ E-10+75

NOTES

1. ELEV. SHOWN ON DWG ARE IN FEET BASED ON PLANT B.M. EL. 101.50'
2. FINISH GRADE ELEV'S ARE SHOWN IN PARENTHESIS (101.50) EXIST. TRACK + GRADE ELEV'S ARE SHOWN W/OUT PARENTHESIS AND FOR REF ONLY

REFERENCE DRAWINGS

55-36-D-1	PLANS + SECTION S.P. R/R SPUR	WEST OF FREEMAN ST.
55-36-D-2	PLANS + PROFILES @	S.P. R/R SPUR
55-36-D-3	PLANS + PROFILES AND MISC. DET.	S.P. R/R SPUR

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
0	PROPOSED GRADING	GLS				

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

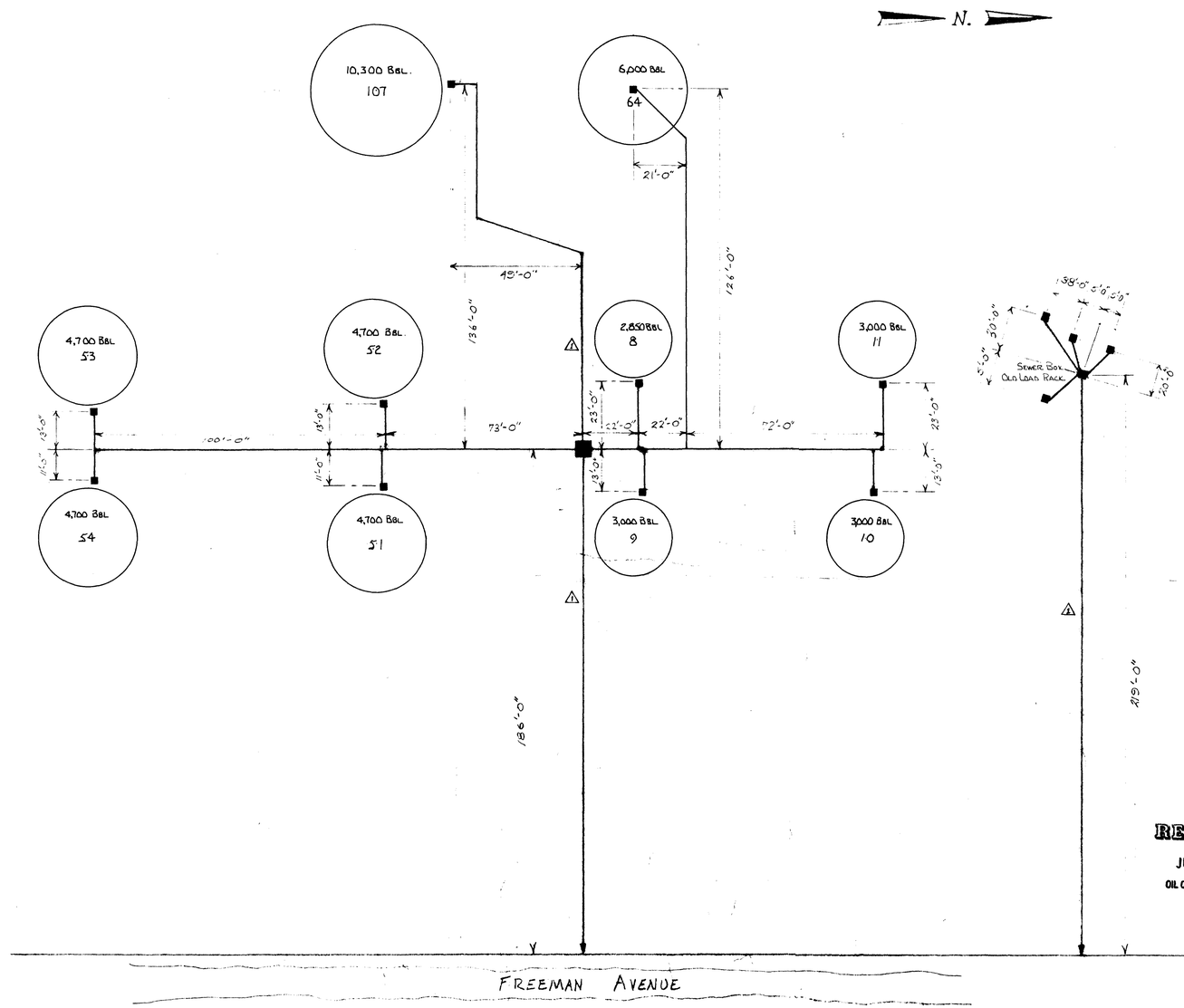
DRAWING TITLE

N-S PROFILES

S. PLANT RAILROAD SPUR

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE HORIZ. 1/4" : 1'-0" VERT. 1/2" : 1'-0"	
GLS			
DATE 2-8-88	DATE	DRAWING NO. 55-36-D-4 OF 4	REV. 0



Reference Dwg: SHT. 1 North Division - Plot Plan of Process Area & Sewer Lines

RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

North Division
South Tank Farm - Sewer System

REVISIONS		
NO.	DATE	BY
1	5-26-79	JAS
2		
3		
4		
5		

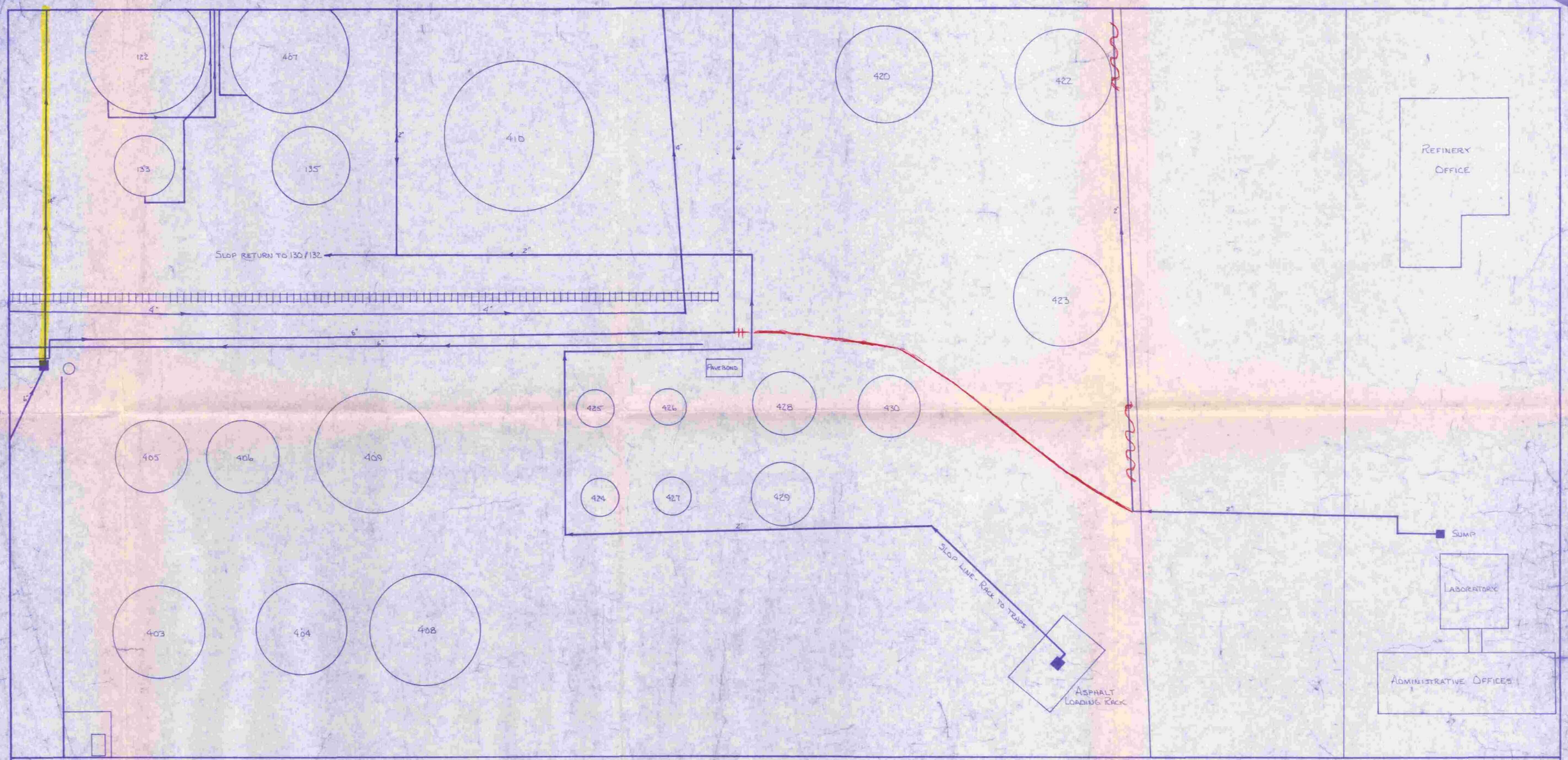
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY HILLIARD	SCALE 1" = APPROX. 24'	MATERIAL
CHK'D	DATE 1-11-73	DRAWING NO. 102-07-D
TRACED	APP'D	

SHT 2 of 2

NO. 173PTM - 20X30

File Copy



RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

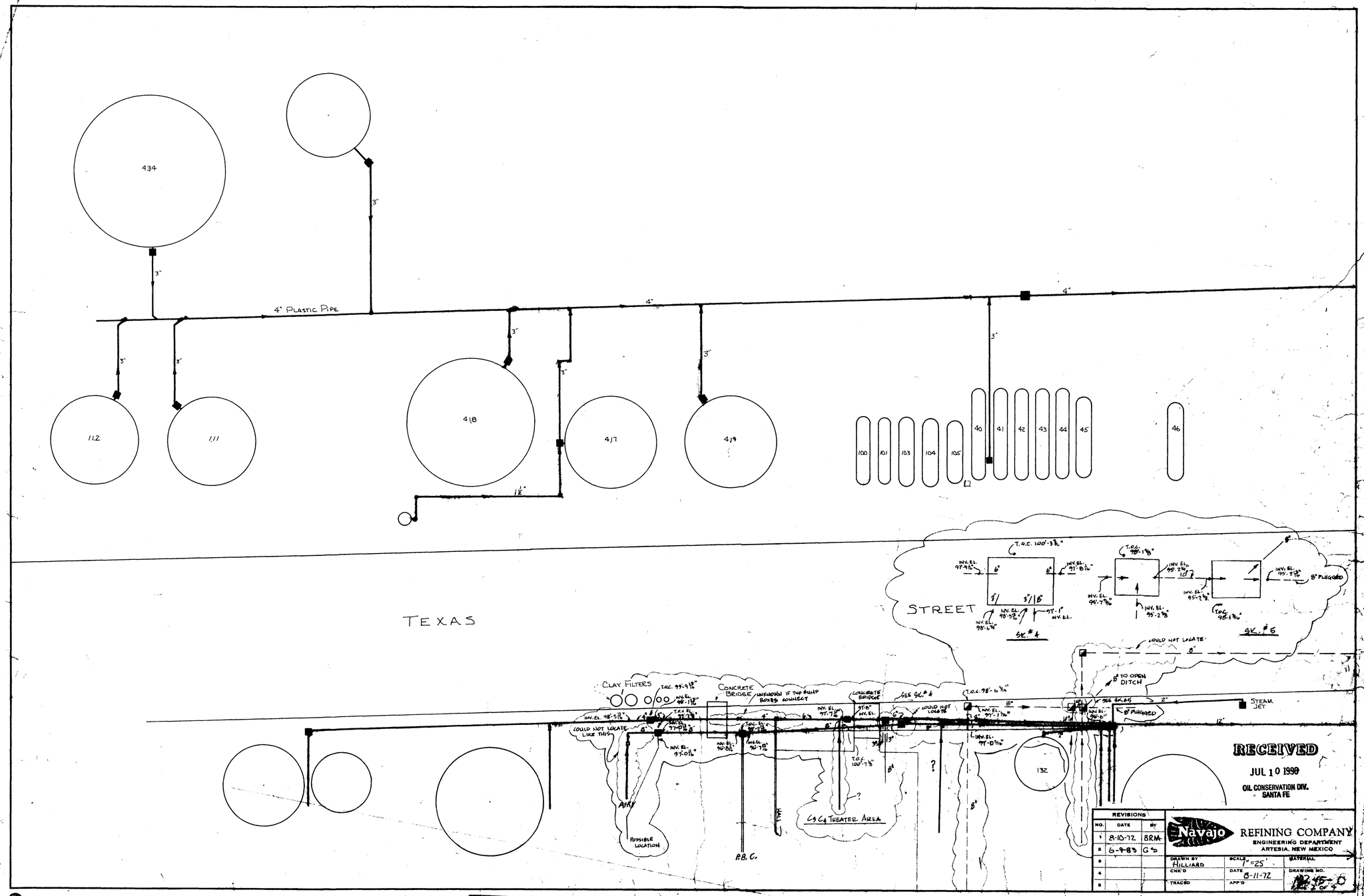
File Copy

REVISIONS		
NO.	DATE	BY
1	8-10-72	BRM
2		
3		
4		
5		

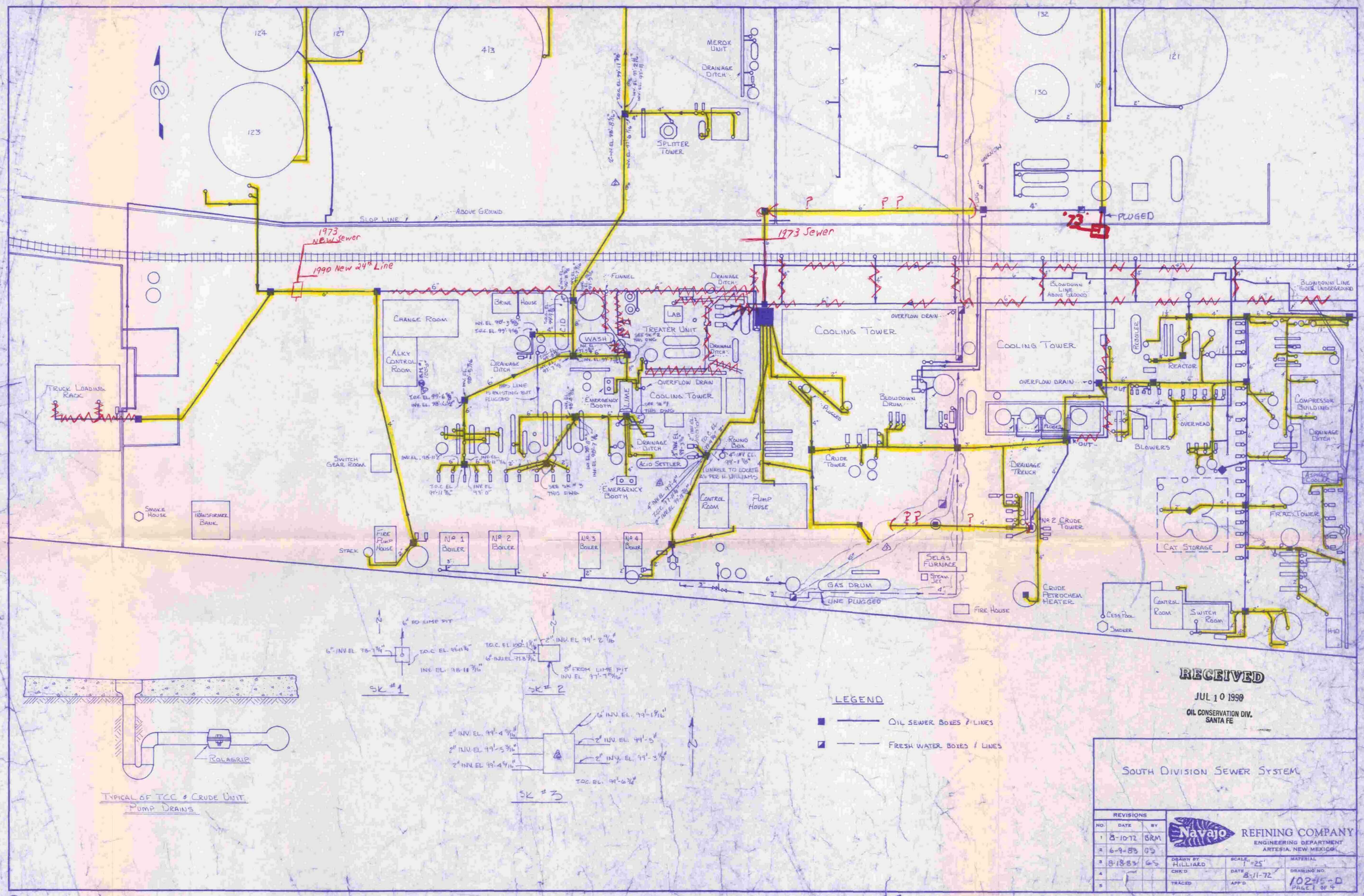
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY Hillard	SCALE 1" = 25'	MATERIAL
CHK'D	DATE 8-11-72	DRAWING NO. 102-16-D
TRACED	APR'D	PAGE 3 OF 4

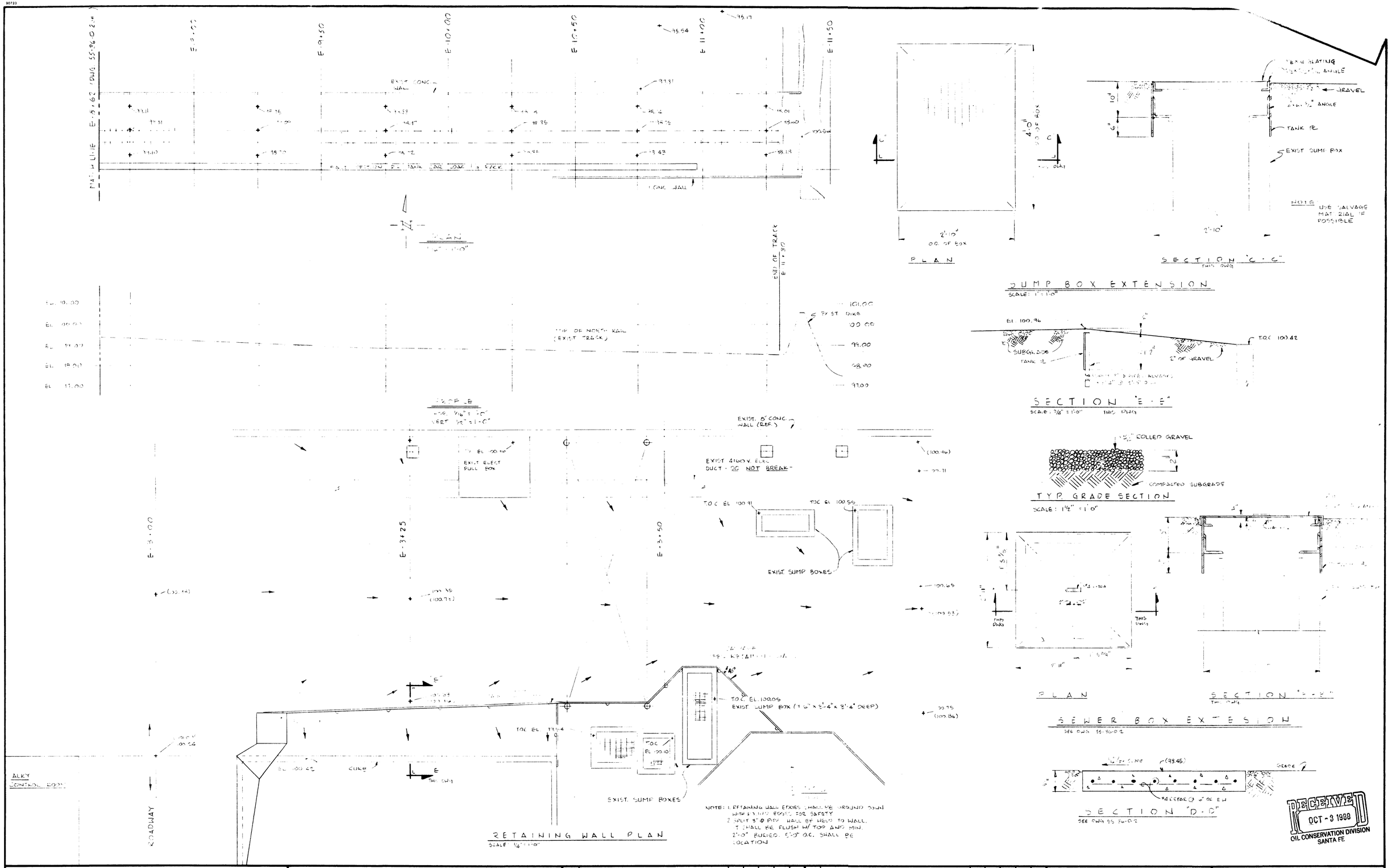
NO. 723PEM—20X30


434
4" Plastic Pipe
112
111
418
417
419
100
101
103
104
105
40
41
42
43
44
45
46
TEXAS
STREET
Sk. # 4
Sk. # 5
Could not locate
8" to open ditch
Steam Jet
Clay Filters
Concrete Bridge
Unknown if two build boxes connect
See Sk. # 4
See Sk. # 5
Could not locate like this
Possible location
P.B.C.
G & C Treater Area
132
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
REVISIONS
NO. DATE BY
1 8-10-72 BRM
2 6-9-83 GS
Navajo
REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY Hilliard
SCALE 1"=25'
MATERIAL
CHK'D
DATE 8-11-72
DRAWING NO.
TRACED
APP'D

File Copy


124
127
413
123
132
130
121
MEROX UNIT
DRAINAGE DITCH
SPLITTER TOWER
SLOP LINE
ABOVE GROUND
1973 New 6" Sewer
1990 New 24" Line
1973 Sewer
PLUGGED
'72
CHANGE ROOM
ALKY CONTROL ROOM
TRUCK LOADING RACK
BRINE HOUSE
ACID
WASH
FUNNEL
TREATER UNIT
LAB
COOLING TOWER
OVERFLOW DRAIN
EMERGENCY BOOTH
LIME
ACID SETTLER
ROUND BOX
(UNABLE TO LOCATE AS PER H. WILLIAMS)
CONTROL ROOM
PUMP HOUSE
SWITCH GEAR ROOM
SMOKE HOUSE
TRANSFORMER BANK
STACK
FIRE PUMP HOUSE
Nº 1 BOILER
Nº 2 BOILER
Nº 3 BOILER
Nº 4 BOILER
CRUDE TOWER
BLOWDOWN DRUM
DRAINAGE TRENCH
Nº 2 CRUDE TOWER
CRUDE PETROCHEM. HEATER
SELAS FURNACE
STEAM JET
GAS DRUM
LINE PLUGGED
FIRE HOUSE
CESS POOL
SMOLDER
CONTROL ROOM
SWITCH ROOM
BLOWDOWN LINE ABOVE GROUND
BLOWDOWN LINE GOES UNDERGROUND
REACTOR
MODULER
BLOWERS
OVERHEAD
COMPRESSOR BUILDING
ASPHALT COOLER
CAT STORAGE
FRACK TOWER
H-10
6" TO LIME PIT
6" INV. EL. 98-7 3/16"
T.O.C. EL. 98-11 3/16"
INV. EL. 98-11 3/16"
SK #1
T.O.C. EL. 100'-1 3/8"
6" INV. EL. 97-8 3/16"
2" INV. EL. 99'-2 9/16"
8" FROM LIME PIT
INV. EL. 97'-7 9/16"
SK #2
6" INV. EL. 99'-1 9/16"
2" INV. EL. 99'-4 9/16"
2" INV. EL. 99'-5 3/16"
2" INV. EL. 99'-4 9/16"
2" INV. EL. 99'-5"
2" INV. EL. 99'-3 1/8"
T.O.C. EL. 99'-6 3/16"
SK #3
ROLAGRIP
TYPICAL OF TCC & CRUDE UNIT PUMP DRAINS
LEGEND
OIL SEWER BOXES & LINES
FRESH WATER BOXES & LINES
RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE
SOUTH DIVISION SEWER SYSTEM
REVISIONS
NO. DATE BY
1 8-10-72 BRM
2 6-9-83 GS
3 8-18-83 GS
4
5
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY HILLIARD
CHK'D
TRACED
SCALE 1"=25'
DATE 8-11-72
APP'D
MATERIAL
DRAWING NO. 10215-D
PAGE 1 OF 4

File Copy



NOTES

1. ELEVATIONS SHOWN ON DRAWINGS ARE IN FEET BASED ON PLANT B.M. EL. 100.00'
2. ENGINEERED GRADE ELEVATIONS ARE SHOWN IN PARENTHESIS (100.00')
   EXIST. TRAIN & GRADE ELEV. SHOWN WITH 1/2" PARENTHESIS FOR REF ONLY
3. ↓ GRADE INDICATES DIRECTION OF SLOPE ON FIN. GRADE FOR DRAINAGE
4. CONSIST. OF EXTENSION OF CONCRETE 2 2.5 BAG 3000 P.S.I
5. REINFORCING STEEL SHALL BE ASTM A-615 (GR 60) BILLET STEEL

REFERENCE DRAWINGS

55-36-D-2 PLAN & PROF. EL. & C.P. R/R SPUR

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
0	PROPOSED GRADING	GLS				

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

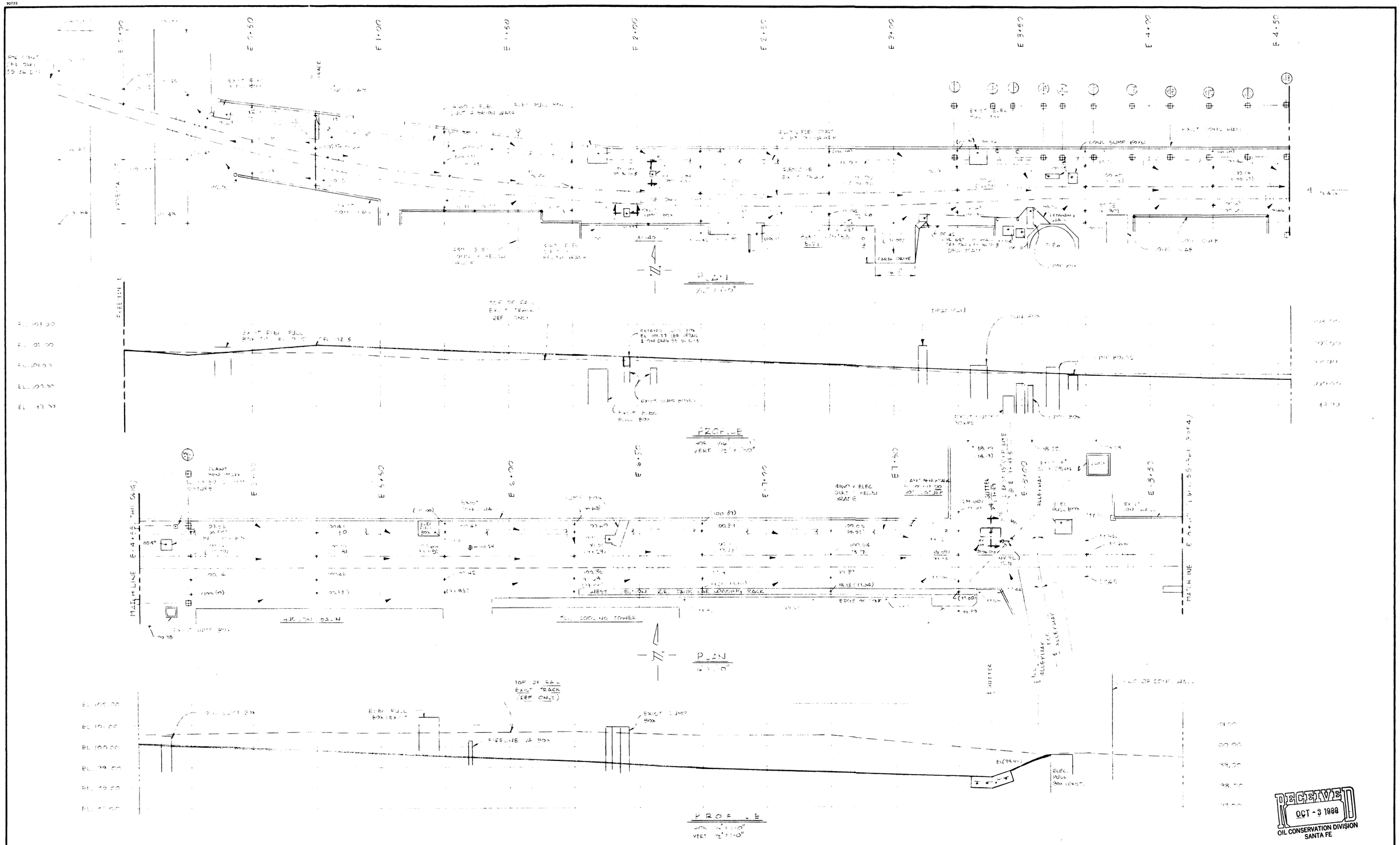
DRAWING TITLE

PLAN - PROFILE
& MISC. DETAILS
S. PLANT R.R. SPUR

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
GLS		AS SHOWN
DATE 2-4-93	DATE	DRAWING NO. 55-36-D-3 of 4

REV. 0



RECEIVED
OCT - 3 1988
OIL CONSERVATION DIVISION
SANTA FE

NOTES

1. ELEV SHOWN ON DWG ARE IN FEET BASED ON PLANT B.M. EL 101.50'
2. FINISH GRADE ELEV ARE SHOWN IN PARENTHESIS (101.50) EXIST TRACK + GRADE ELEV SHOWN W/OUT PARENTHESIS FOR REF ONLY
3. ARROWS INDICATE DIRECTION OF SLOPE ON FINISH GRADE FOR DRAINAGE
4. 6" FIREWATER LINE WAS OMITTED ON THIS DWG FOR CLARITY. SEE DWG 55-36-D-3 FOR APPROX ELEV

REFERENCE DRAWINGS

55-36-D-1	PLANS + SECTION S.P. R/R SPUR WEST OF FREEMAN ST
55-36-D-3	PLANS + PROFILES & MISC DET S.P. R/R SPUR
55-36-D-4	N-S PROFILES SP R/R SPUR

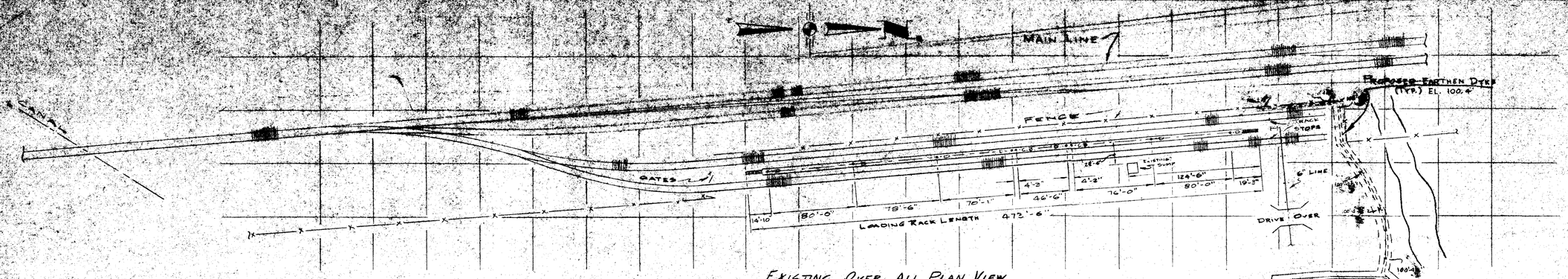
NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
0	PROPOSED	GLS				

DRAWING TITLE

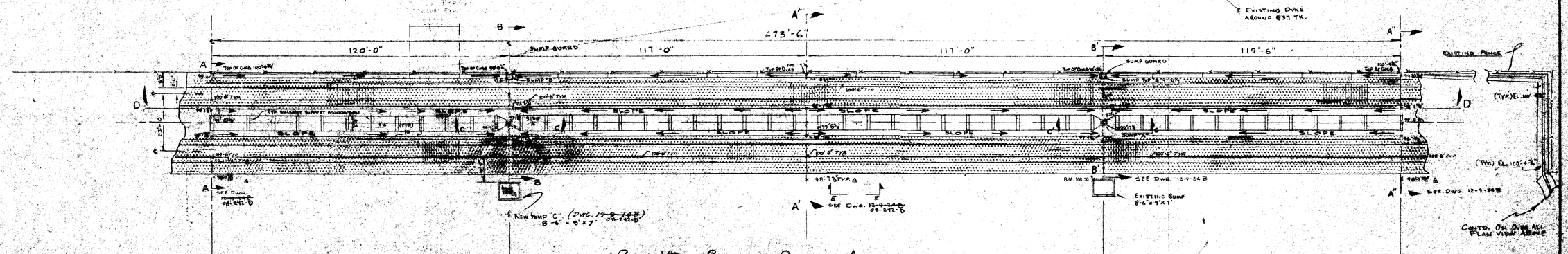
PLANS + PROFILES
@
S. PLANT R.R. SPUR

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

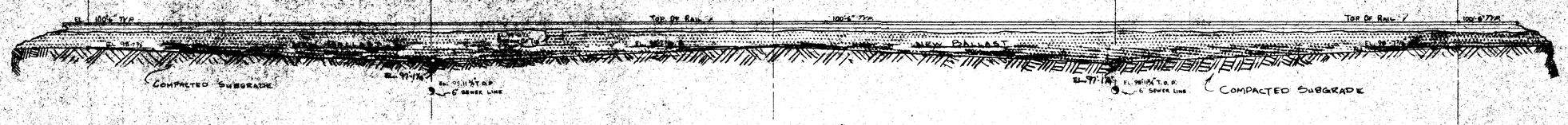
DRAWN BY	CHK'D BY	SCALE	
GLS		AS SHOWN	
DATE	DATE	DRAWING NO.	REV.
2-4-88		55-36-D-2	0



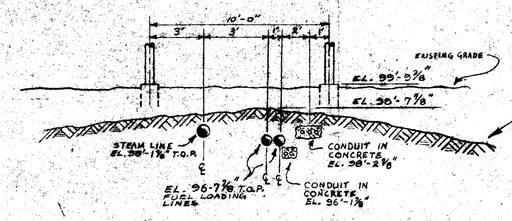
EXISTING OVER ALL PLAN VIEW
(Scale: 1"=50')



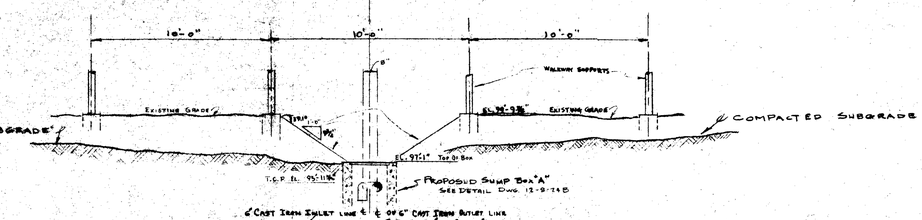
PLAN VIEW - PROPOSED DRAINAGE AREA.
(SCALE 1" = 20 FT.)



SECTION D-D
(HORZ. SCALE: 1"=20')
(VERT. SCALE: 1/8"=1')



SECTION E-E
(SCALE 1/4"=1 FT. APROX.)



SECTION C-C & C'-C'
(SCALE: 1/4"=1 FT.)

RECEIVED
JAN 13 1988
OIL CONSERVATION DIVISION
SANTA FE

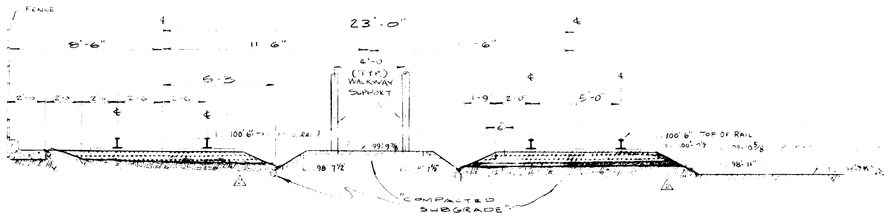
NOTES	REFERENCE DRAWINGS	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
	12-9-D Cross sections of trackage, sump details	1 SAND PAP REVISION	DRG	HRL	7/1/76	HRL	
		2 ADD SECTION E-E	JRS		1/10/77		

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

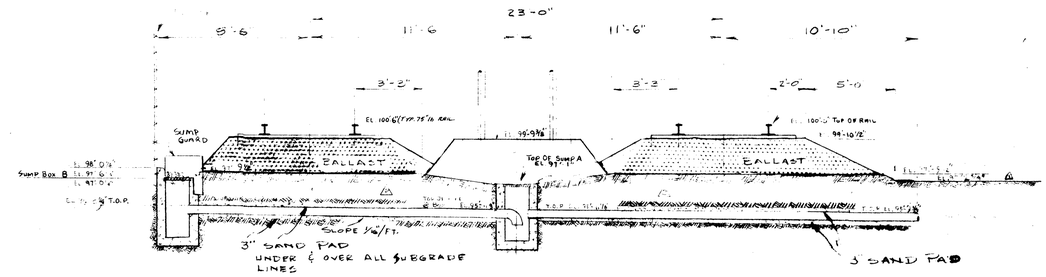
DRAWN BY: W.R. LEWIS
DATE 8-18-75
SCALE NOTED
DATE 1/28/76

DRAWING TITLE
PLAN VIEW of TRACKAGE & BALLASTING
for
N. DIV. R.R. LOADING RACK

Navajo



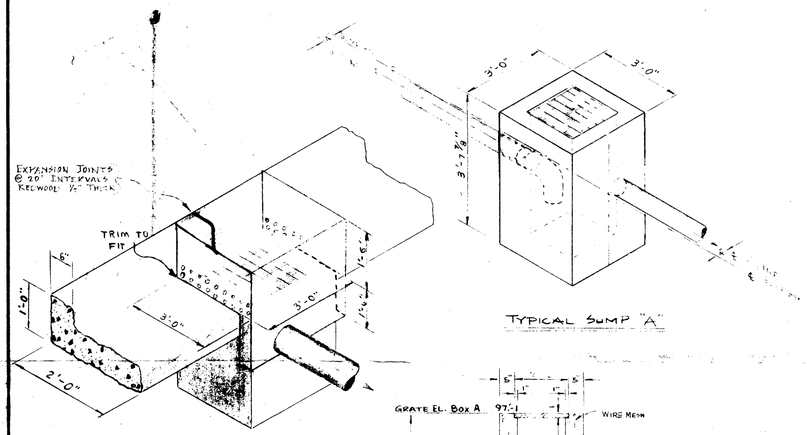
SECTION A-A, A'-A' & A"-A"
DWG. 12-8-24B



SECTION B-B & B'-B'
DWG. 12-8-24B

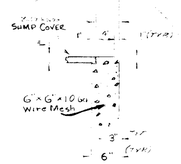
CROSS SECTIONS

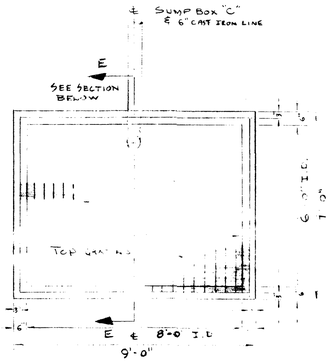
(Scale: 1/4" = 1 FT.)



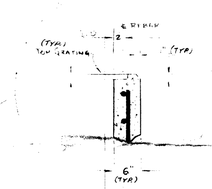
TYPICAL SUMP "A"

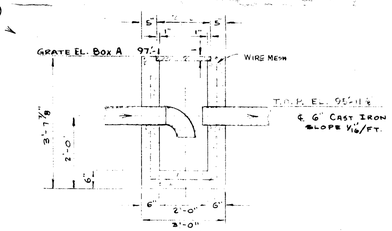
TYPICAL SUMP BOX "B" & DRAINAGE GUTTER



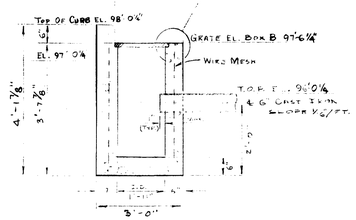


PLAN VIEW

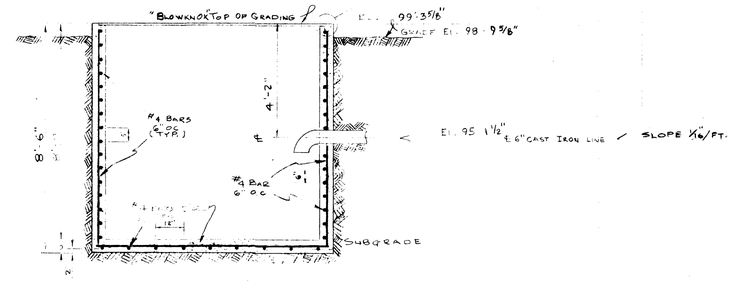




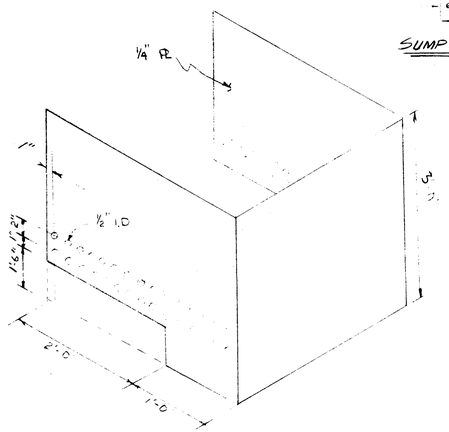
SUMP BOX-A DETAIL
2 - REQ'D



SUMP BOX-B DETAIL
2 - REQ'D



ELEVATION VIEW
SECTION E-E
SUMP BOX "C"
(Scale: 3/8" = 1 FT.)
1 - REQ'D



SUMP GUARD DETAIL
2 - REQ'D

BILL OF MATERIAL

REQ	UNIT	DESCRIPTION
83	FT.	6" CAST IRON, 98 THICKNESS 6.9 [illegible]
4	EA.	6" CAST IRON ELBS 90°
2.5	Yds³	SAND
3.01	Yds³	3000# CONCRETE SMALL SUMPS 4.11
5.61	Yds³	3000# CONCRETE LARGE SUMPS 1 REQ.
64	EA	1/2" ϕ X 8'-6" REBAR
32	EA.	1/2" ϕ x 6'-6 REBAR
32	EA.	1/2" ϕ x 8'-6" REBAR
22	Yd³	3000# CONCRETE (CURB & GUTTER)
77.75	Ft²	BLOWKNOX GRATING
212.00	Ft.²	6" x 6" x 10 GA. WIRE MESH
28.75	Ft²	REDWOOD 1/2" THICK FOR EXPANSION JOINTS
19.5	FT.²	1/4" PLATE

RECEIVED
JAN 13 1993
OIL CONSERVATION DIV.
SANTA FE

REFERENCE DRAWINGS

12-8-D = Overall plan of drainage & spill containment.

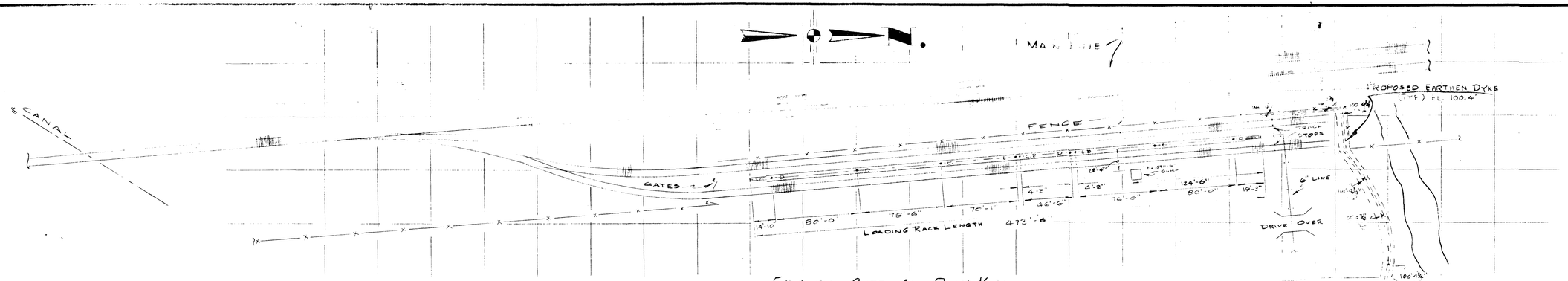
NO	REVISIONS	BY	CHK	DATE	APPR.	APPR.
1	SAND PAD REVISION	DC	NRL	1/6/77		
2	REMOVED SAND & PLASTIC SHEET	GHL		9-7-77		

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY:	CHK'D. BY:	SCALE:
[illegible]	[illegible]	NOTED
DATE 10-28-75	DATE [illegible]	[illegible]

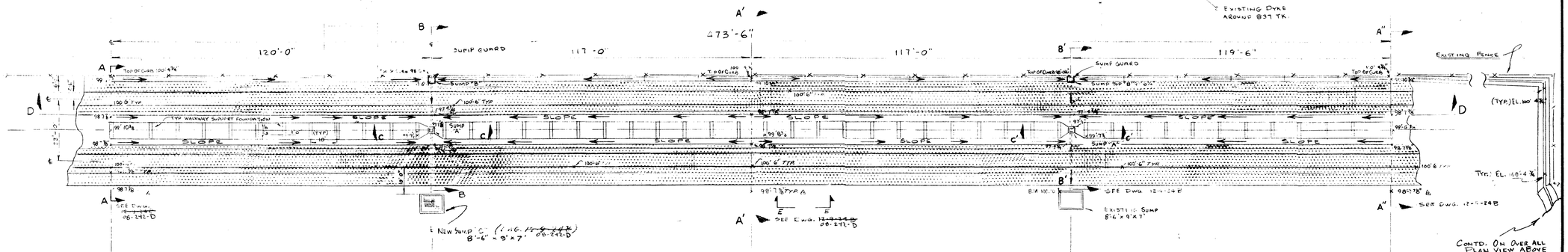
DRAWING TITLE
CROSS SECTIONS of BALLAST & SUMP DETAILS
FOR
N. DIV K.R. LOALING RACK DRAINAGE
&
SPILL CONTAINMENT

Navajo
DRAWING NO. 08-242-D
REV. - 2

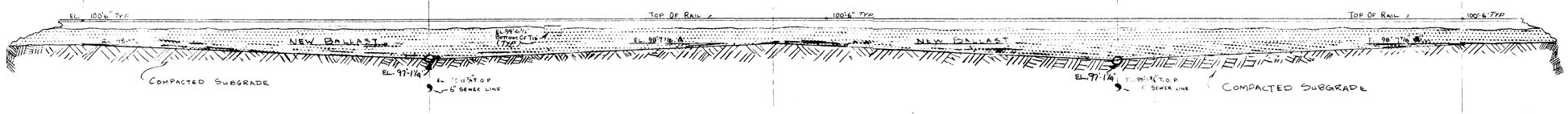


EXISTING OVER ALL PLAN VIEW
(Scale: 1" = 50')

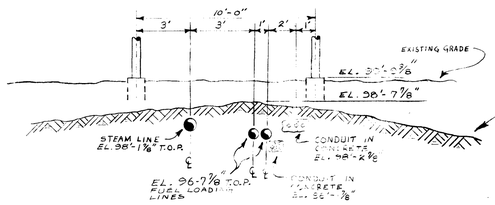
• - O (DIESEL FUEL) FILL RISER
• - B (CARBON BLACK) FILL RISER



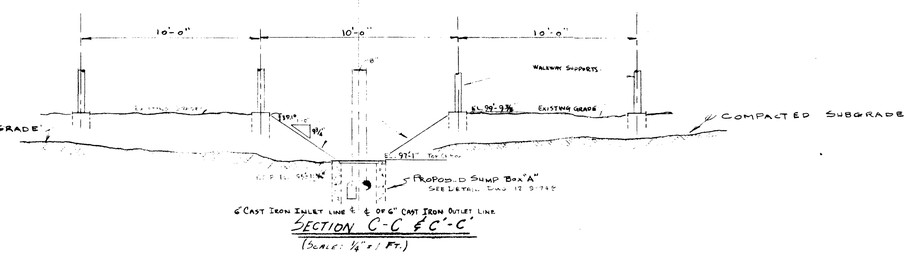
PLAN VIEW - PROPOSED DRAINAGE AREA.
(SCALE 1" = 20 FT.)



SECTION D-D
(HORZ. SCALE: 1" = 20')
(VERT. SCALE: 1/4" = 1')



SECTION E-E
(SCALE 1/4" = 1 FT. APROX.)



SECTION C-C & C'-C'
(SCALE: 1/4" = 1 FT.)

REFERENCE DRAWINGS

12-9-D = Crossections of ballast, Sump details

NO	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	SAND PAD REVISION	DS	NRL	1/14/76	NRL	
2	ADD SECTION E-E	RS	NRB	1/20/76	NRB	

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY:	CHK'D BY:	SCALE:
N.R. LEWIS	NRB	NOTED
DATE 10-28-75	DATE 1/14/76	1-23-76

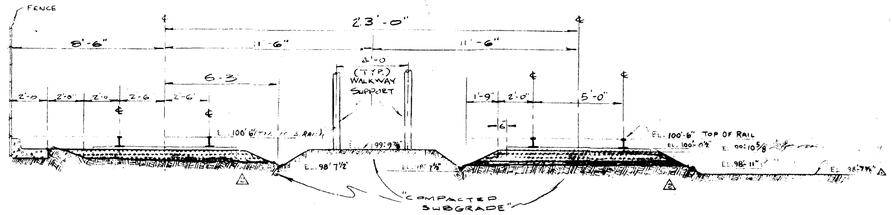
DRAWING TITLE

PLAN VIEW of TRACKAGE & BALLASTING
— for —
N. DIV K.K. LOADING RACK
&
DRAINAGE, SPILL CONTAINMENT

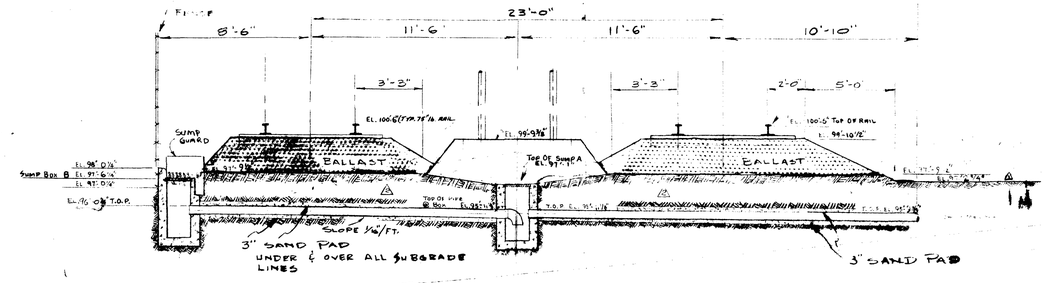
Navajo

DRAWING NO. 08-241-D - 1

Rev 1/13/88 COPY



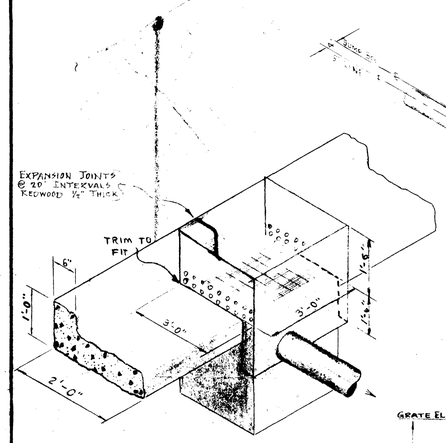
SECTION A-A, A'-A' & A"-A"
DWG. 12-8-24B



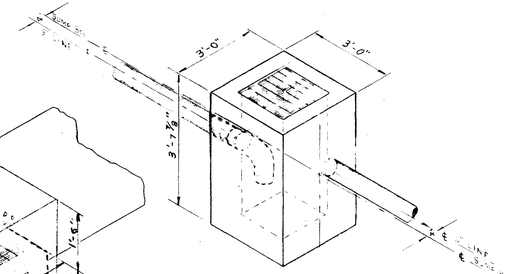
SECTION B-B & B'-B'
DWG. 12-8-24B

CROSS SECTIONS

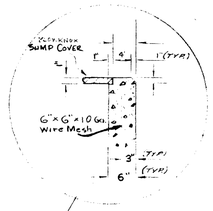
(Scale: 1/4" = 1 Ft.)

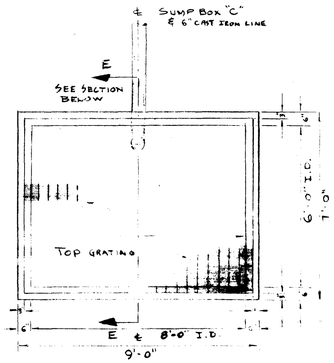


TYPICAL SUMP BOX "B"
& DRAINAGE GUTTER

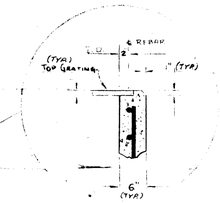


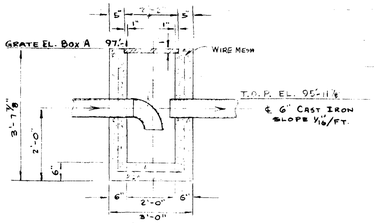
TYPICAL SUMP "A"



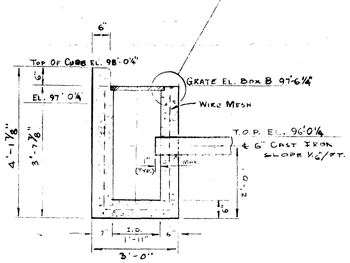


PLAN VIEW

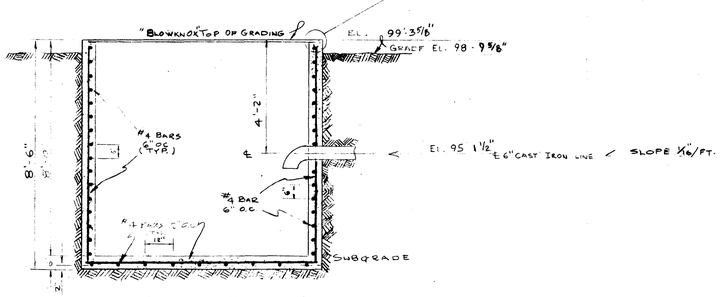




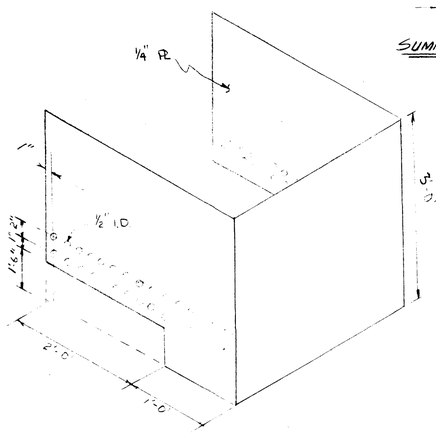
SUMP BOX-A DETAIL
2-REQ'D



SUMP BOX-B DETAIL
2-REQ'D



ELEVATION VIEW
SECTION E-E
SUMP BOX "C"
(Scale: 3/8" = 1 FT.)
1-REQ'D



SUMP GUARD DETAIL
2-REQ'D

BILL OF MATERIAL		
REQ	UNIT	DESCRIPTION
83	FT.	6" CAST IRON .38" THICKNESS B&S 2.50-2.22/LB/FT
4	EA.	6" CAST IRON ELLS 90°
2.5	Yds³	SAND
3.01	Yds³	3000# CONCRETE SUMP BOXES & FILL
5.61	Yds³	3000# CONCRETE MEGA SUMPS & KEYS
64	EA	1/2" Φ X 8' LG. REBAR
32	EA.	1/2" Φ X 6'-6 REBAR
32	EA.	1/2" Φ X 8'-6" REBAR
22	Yd³	3000# CONCRETE (CURB & GUTTER)
77.75	FT²	BLOWKNOX GRATING
212.00	FT.²	6"x6"x10 GA. WIRE MESH
28.75	FT²	REDWOOD 1/2" THICK FOR EXPANSION JOINTS
19.5	FT²	1/4" PLATE

REFERENCE DRAWINGS

12-8-D = Overall plan of drainage & spill containment.

NO.	REVISIONS	BY	CHK	DATE	APPR.	APPR.
1	SAND PAD & REVISION	DG	NRL		NRL	
2	REMOVED SAND & PLASTIC SHEET	GH		9-7-77		

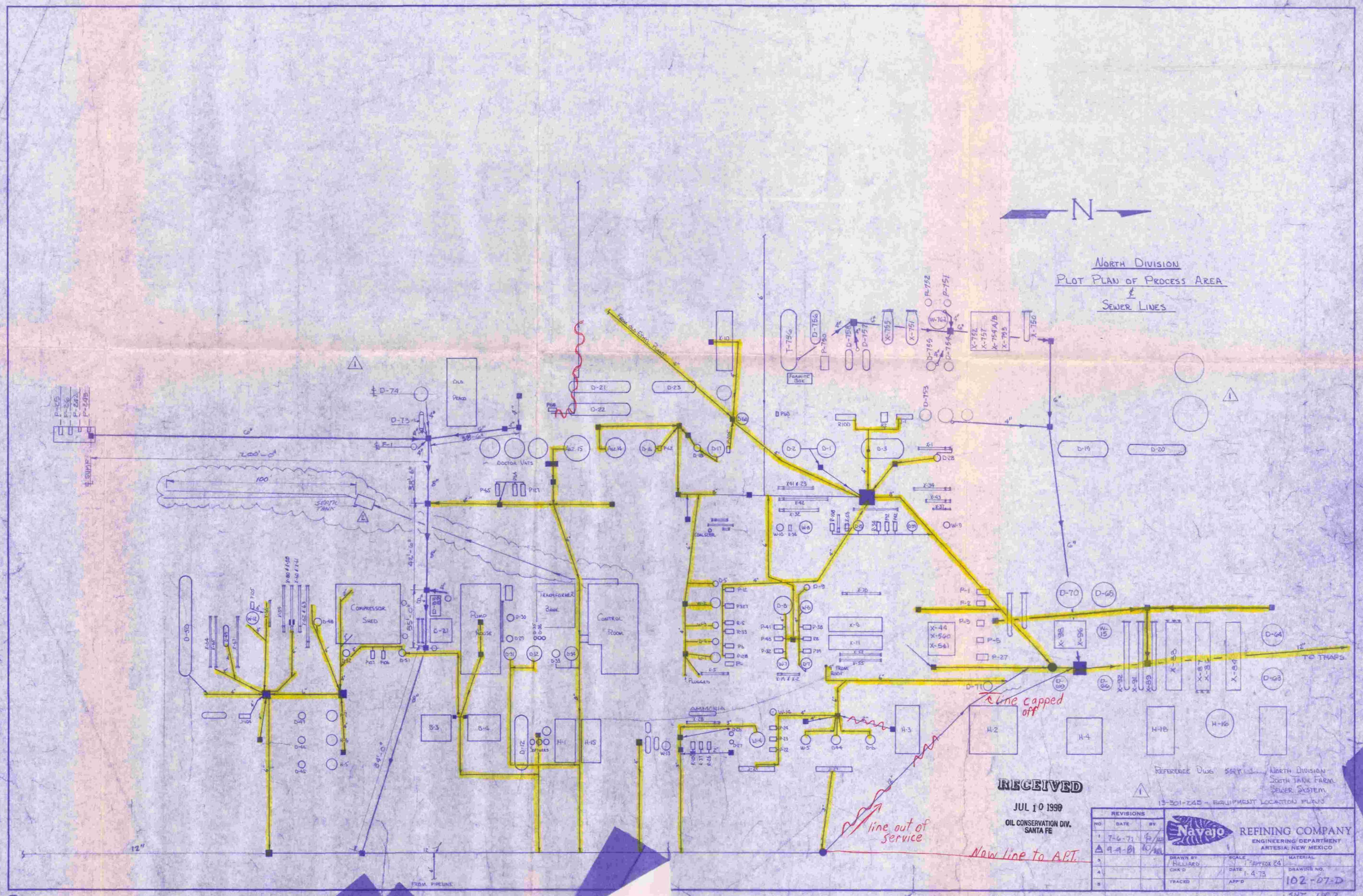
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

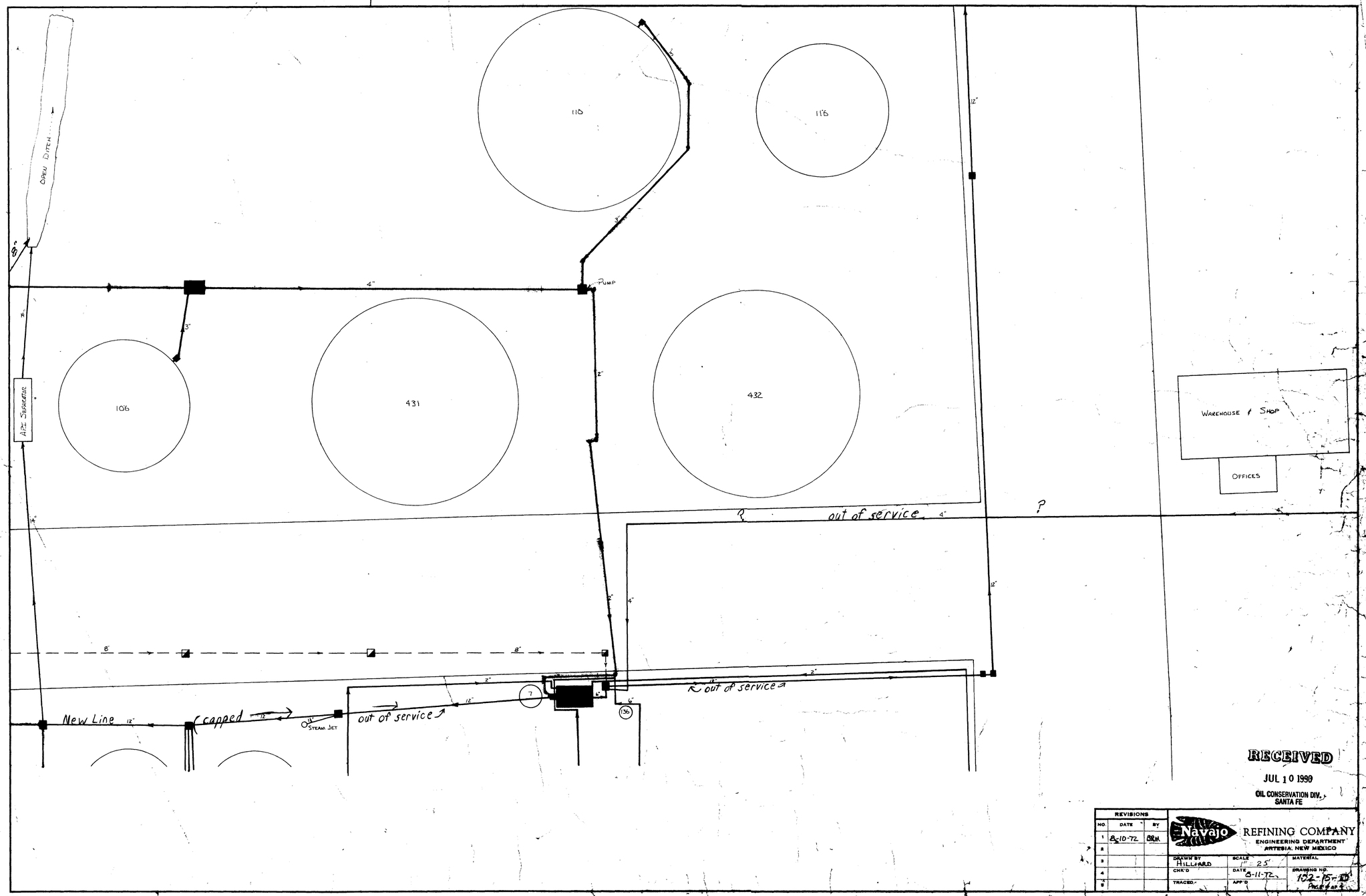
DRAWN BY:	CHK'D. BY:	SCALE:
NRL-SWC	[illegible]	NOTED
DATE 10-28-76	DATE 11/15/76	[illegible]

DRAWING TITLE
CROSS SECTIONS of BALLAST & SUMP DETAILS
For
N. DIV R.R. LOADING RACK DRAINAGE
&
SPILL CONTAINMENT

Navajo
DRAWING NO. 08-242-D REV. -12

Rev'd 1/13/88 copy


N
NORTH DIVISION
PLOT PLAN OF PROCESS AREA
&
SEWER LINES
COMPRESSOR SHED
PUMP HOUSE
TRANSFORMER BANK
CONTROL ROOM
SEPTIC TANK
DOCTOR VATS
OLD PENCO
FERMATE BOX
TO THAPS
line capped off
line out of service
New line to A.P.T.
FROM PIPELINE
REFERENCE DWGS SHT 1 NORTH DIVISION SOUTH TANK FARM SEWER SYSTEM
13-301-245 - EQUIPMENT LOCATION PLANS
RECEIVED
JUL 10 1999
OIL CONSERVATION DIV. SANTA FE
REVISIONS
NO. DATE BY
1 7-6-72
2 9-9-81
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO
DRAWN BY HILLIARD
CHK'D
TRACED
SCALE 1" = APPROX 24'
DATE 1-4-73
APP'D
MATERIAL
DRAWING NO. 102-07-D
SHT 1 OF 2
File Copy



RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

REVISIONS		
NO.	DATE	BY
1	8-10-72	GRM
2		
3		
4		
5		
6		

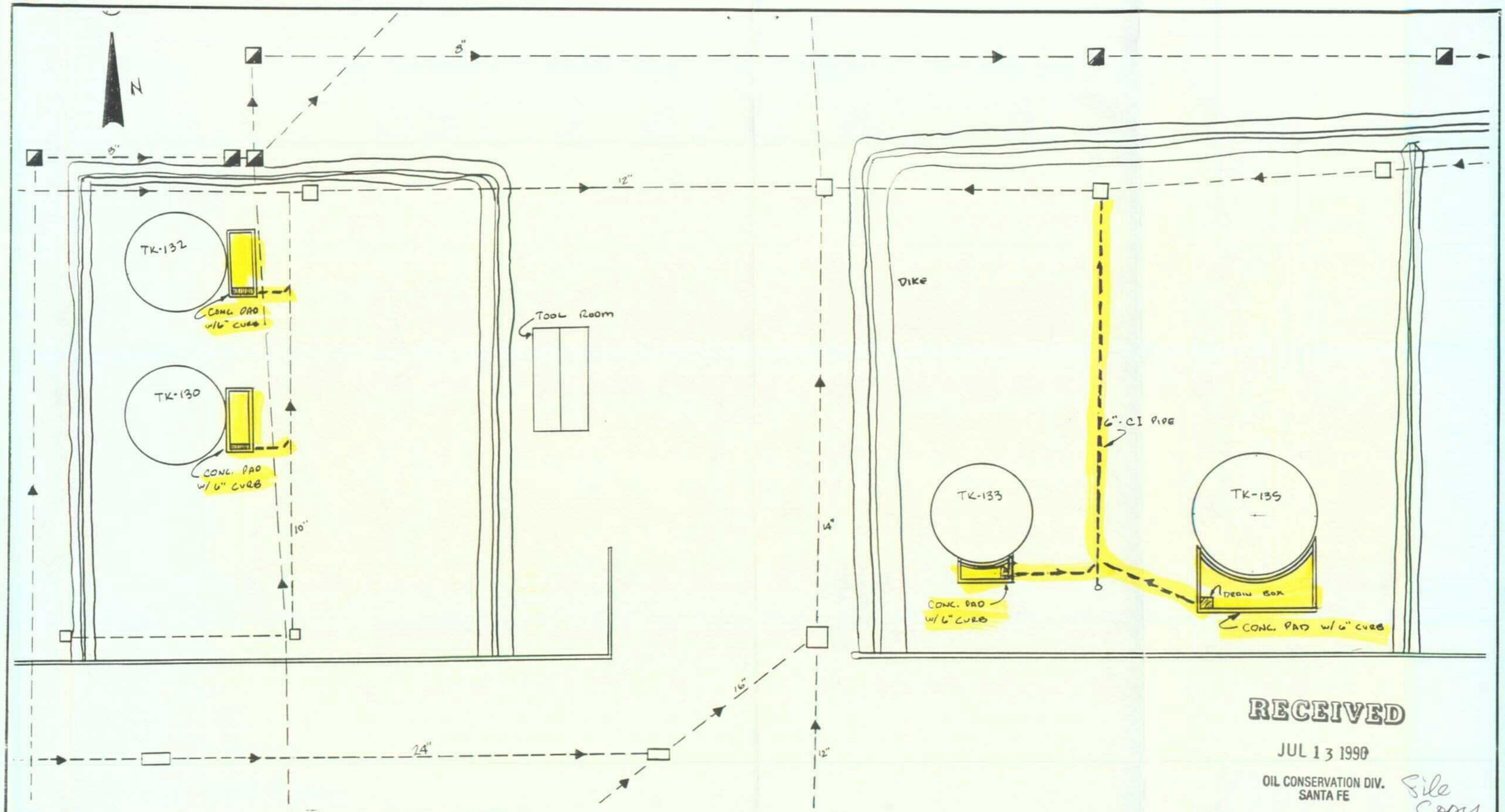
Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY HILLIARD	SCALE 1" = 25'	MATERIAL
CHK'D	DATE 8-11-72	DRAWING NO. 102-15-B
TRACED	APP'D	PAGE 1 OF 2

NO. 172PTN - 20X30

File copy

130860



RECEIVED
JUL 13 1990
OIL CONSERVATION DIV.
SANTA FE

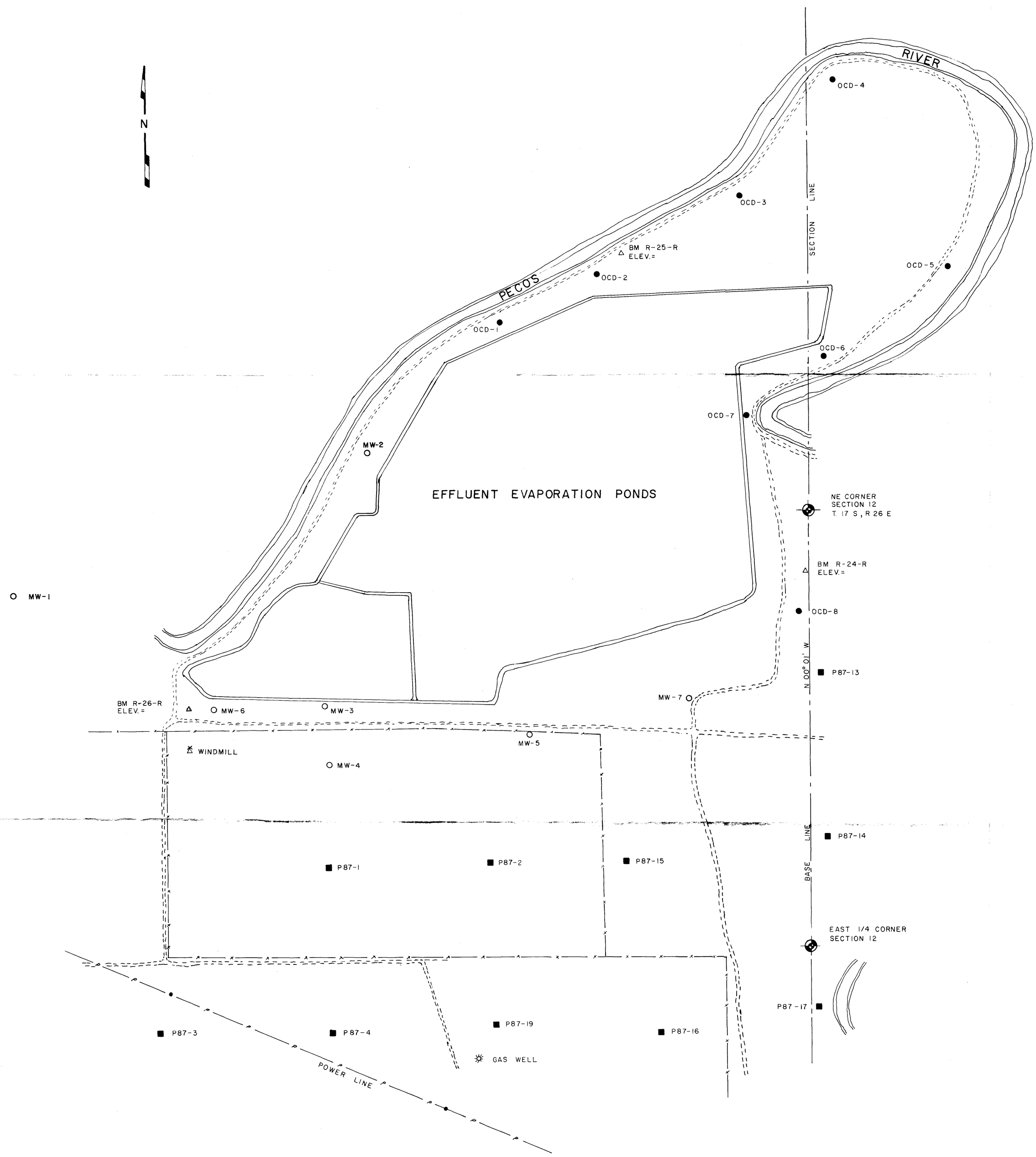
File Copy

REF. DWG'S	NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
	0						

DRAWING TITLE: PROPOSED SPILL CONTAINMENT

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA, NEW MEXICO

DRAWN BY	CHK'D BY	SCALE	
GLS		NONE	
DATE	APPR'D BY	DRAWING NO.	REV.
7-11-90		SK-0000	0



RECEIVED
JUL 10 1990
OIL CONSERVATION DIV.
SANTA FE

MONITORING WELLS

EFFLUENT EVAPORATION PONDS

NAVAJO REFINING COMPANY

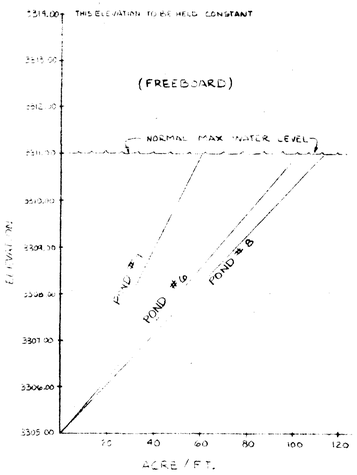
ARTESIA EDDY COUNTY NEW MEXICO

McFARLAND ENGINEERING

JOB NO.	DRAWN	SCALE	DATE	
89069	BMc	1"=300'	8/89	102-29-D

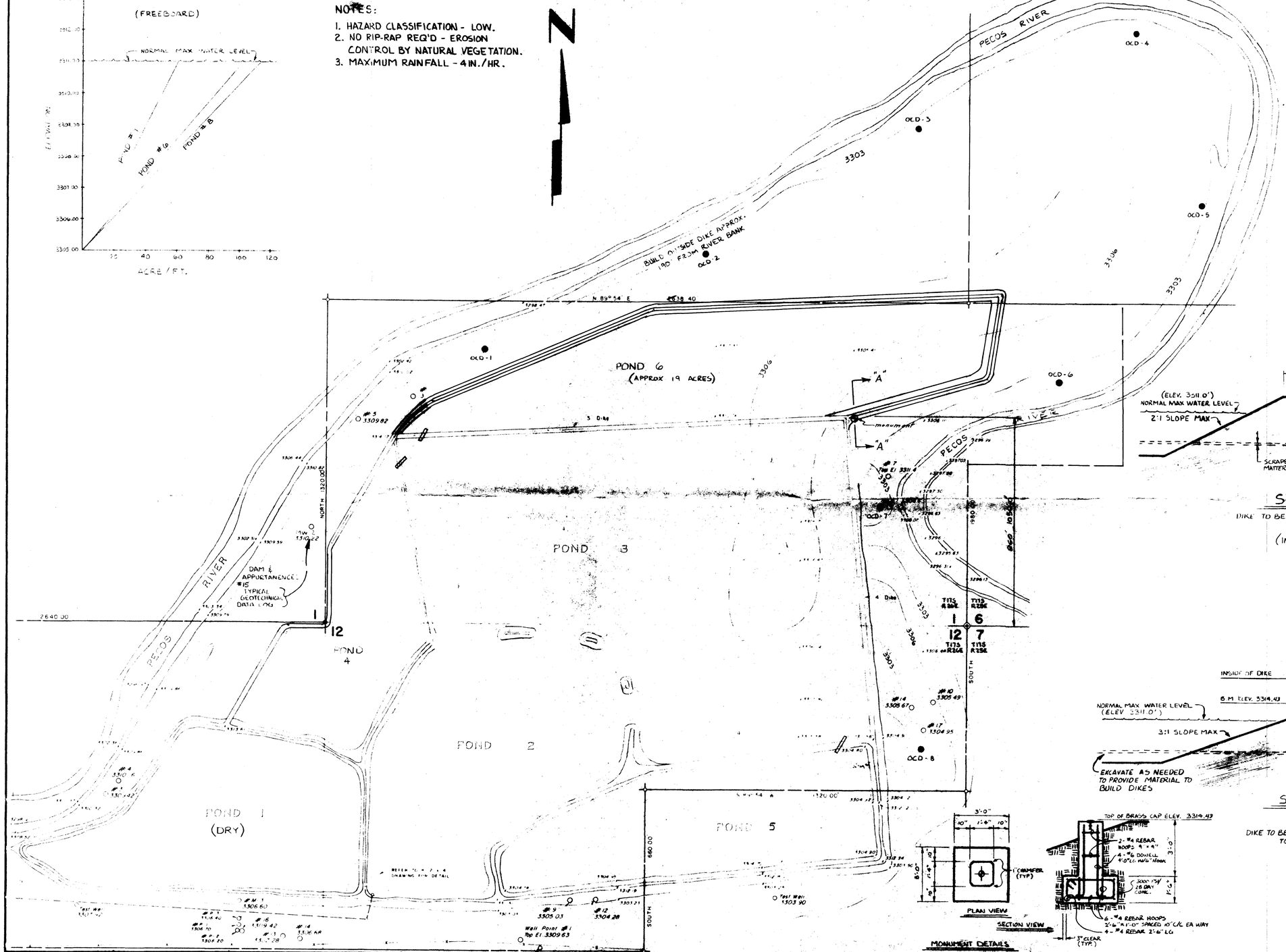
File Copy

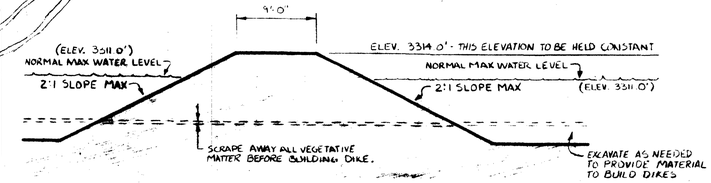
102-29-D



NOTES:

1. HAZARD CLASSIFICATION - LOW.
2. NO RIP-RAP REQ'D - EROSION CONTROL BY NATURAL VEGETATION.
3. MAXIMUM RAINFALL - 4 IN./HR.

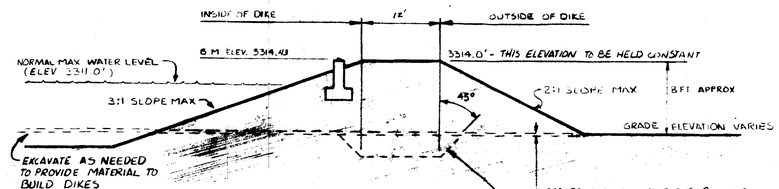




SECTION "B-B"

DIKE TO BE BUILT IN 9" LIFTS - COMPACTED TO 95% PROCTOR

(INTERNAL DIKE)
SCALE 1/8" = 1'-0"



SECTION "A-A"

SCALE : 1/8" = 1'-0"

DIKE TO BE BUILT IN .5' LIFTS - COMPACTED TO 95% PROCTOR

MONUMENT DETAILS

RECEIVED
JUL 13 1990
OIL CONSERVATION DIV.
SANTA FE

SHT 2 OF 2

NOTES

PROPOSED CONSTRUCTION SHOWN W/ RED LINES

● PROPOSED OCD MONITOR WELLS

REFERENCE DRAWINGS

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.

NO.	REVISIONS	BY	CHK.	DATE	APPR.	APPR.
1	ISSUE FOR APPROVAL OF PONDS 6,7 & 8	JJW	RCS	7/7/88		
2	ADDITION OF OCD APPROVED MONITOR WELLS	JJW	RCS	7/27/88		
3	ADDITION OF PONDS 6,7 & 8	JJW				
4	AS BUILT'S	BMS		7/9/90		

DRAWING TITLE

EFFLUENT EVAPORATION PONDS

(ADDITION OF PONDS 6, 7 & 8)

Navajo REFINING COMPANY
ENGINEERING DEPARTMENT
ARTESIA NEW MEXICO

DRAWN BY	CHK'D BY	SCALE
JJW	DGC	1" = 200'
DATE	DATE	DRAWING NO.
2-9-88	2/9/88	102 - 25 - D-2

File com