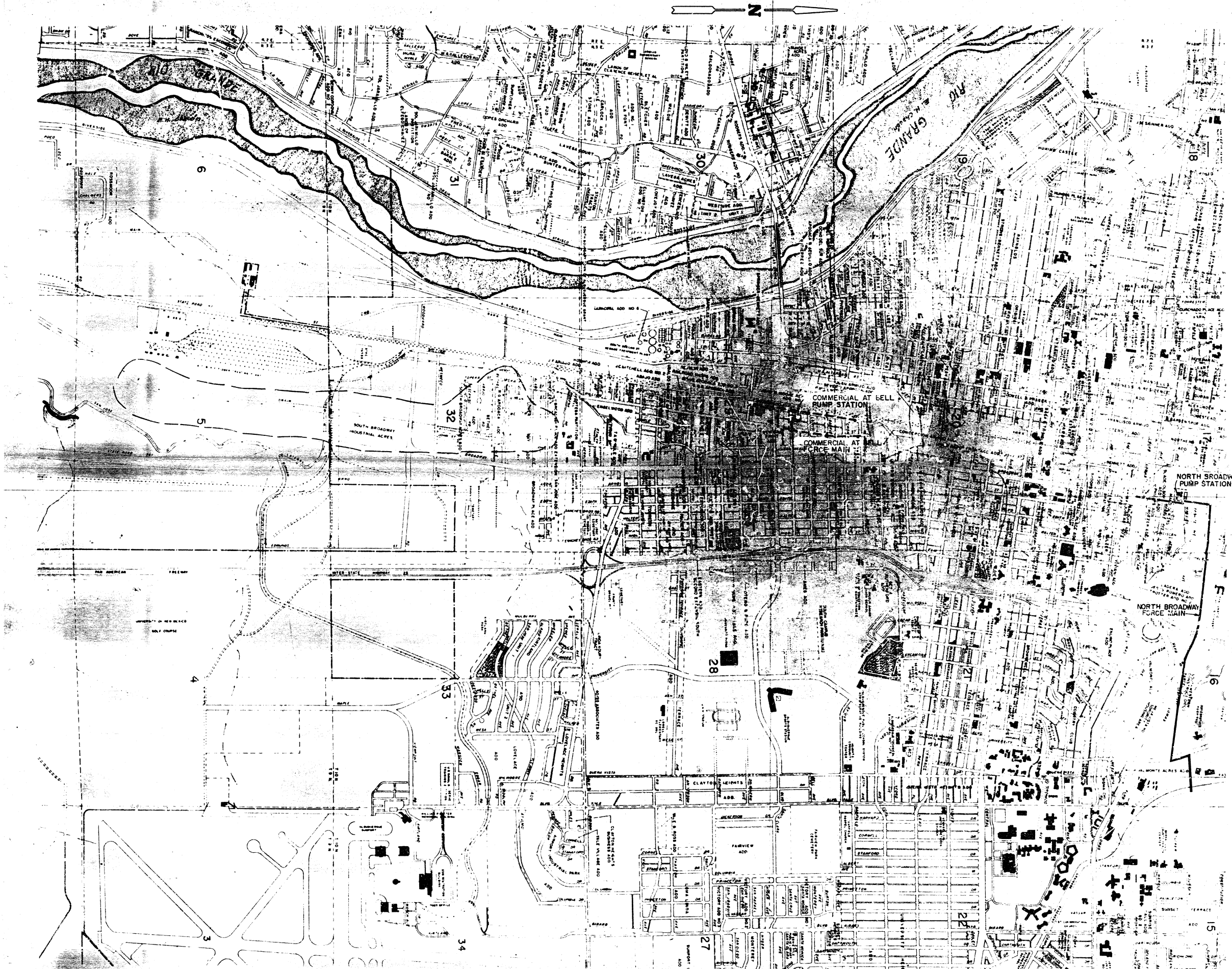
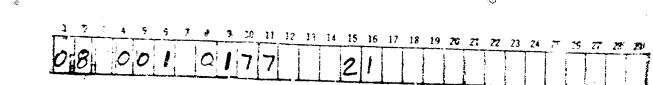




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55. PLAN AND PROFILE



ALBUQUERQUE, NEW MEXICO
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20

LOCATION MAP

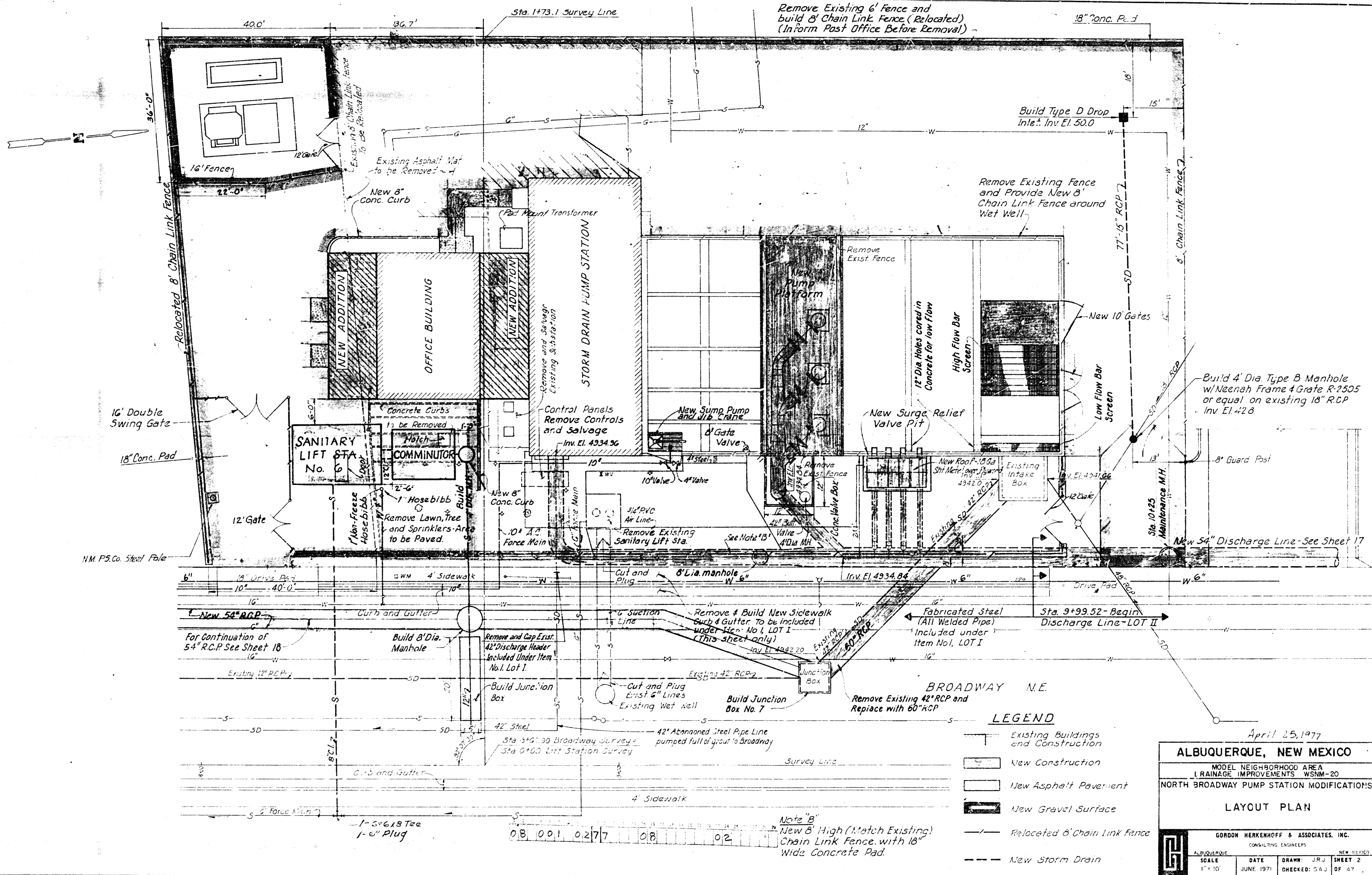
GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

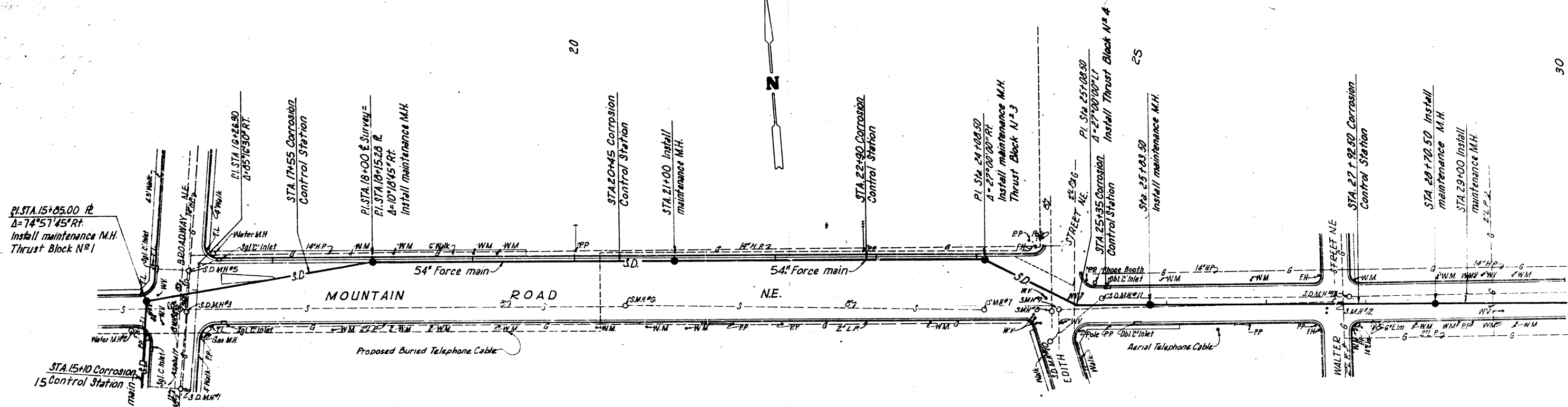


SCALE 1" = 1000'
DATE JUNE 1971
DRAWN LAB.
CHECKED C.A.J.
SHEET 1 OF 47

RECORD DATED
April 25, 1977

AS CONSTRUCTED





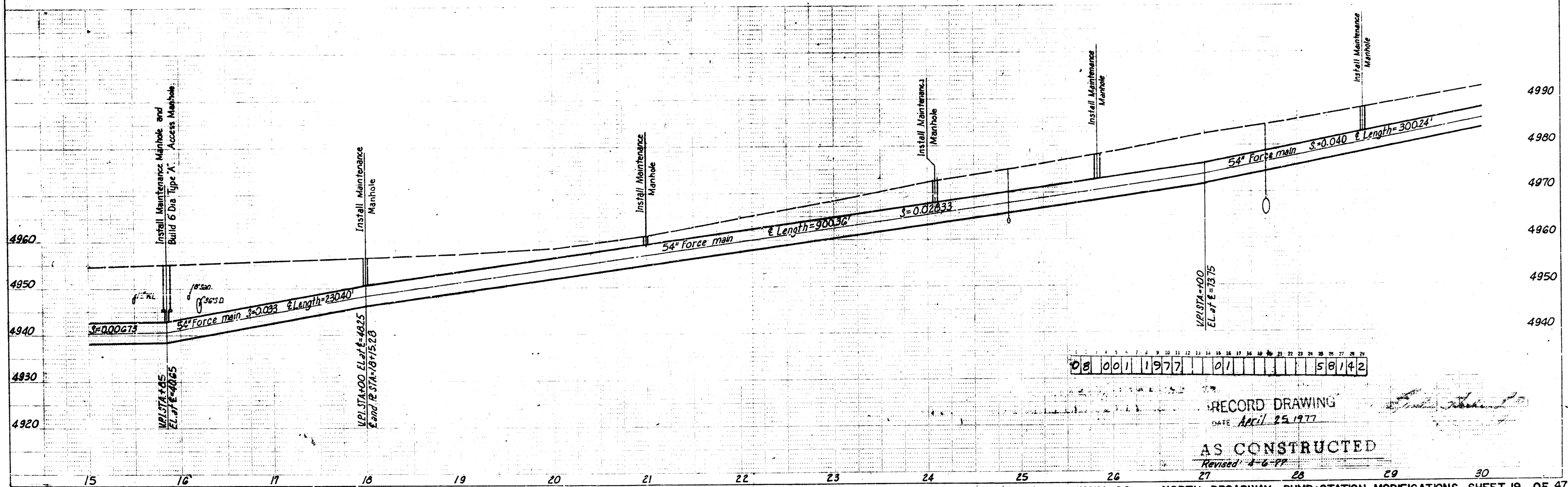
Bench mark: Chisled a south end south east return Mountain Rd. and Broadway. EL=4955.83 (City)

Bench mark: Chisled a west end south west return Mountain Rd. and Edith. EL= 4974.81

MANHOLE DATA

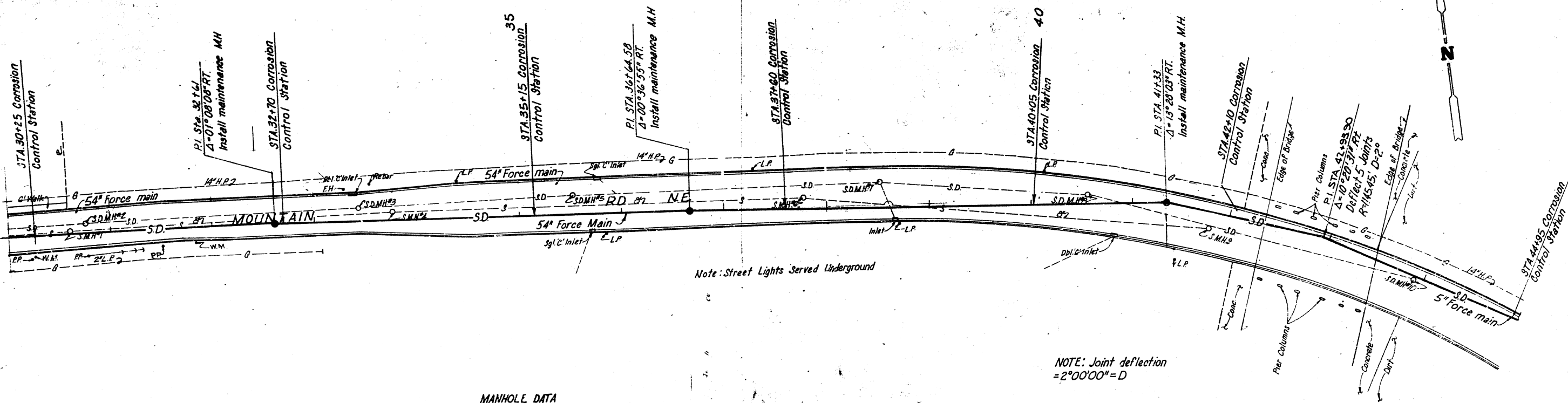
3D.M.H. #15-08.2 Rim EL=54.99 40" N. INVEL=43.89 40" S. INVEL=43.99 12" W. INVEL=50.19	3D.M.H. #9-15-78.8 Rim EL=55.19 36" N. INVEL=45.09 40" S. INVEL=44.99 Top 6" E-W INVEL=47.34	3D.M.H. #5-16-75.5 Rim EL=55.14 15" N. INVEL=43.29 36" S. INVEL=44.14 36" N. INVEL=44.14	3D.M.H. #7-24-22 Rim EL=72.51 6" W. INVEL=61.5 36" S. INVEL=63.56 Rim EL=74.66 6" E. INVEL=63.56 6" N. INVEL=63.41 6" S. INVEL=63.96	3D.M.H. #9-24-92.5 Rim EL=74.91 Large trunk line N.W. INVEL=82.88	3D.M.H. #12-27-65.2 Rim EL=84.60 Top trunk line N.W. EL=83.60
3D.M.H. #10-24-93 Rim EL=74.87 Bolted	3D.M.H. #13-27-80 Rim EL=84.95 Bolted	3D.M.H. #11-25-205.3 Rim EL=76.49 Bolted			

SCALES
1" = 50' Horiz.
1" = 10' Vert.



RECORD DRAWING
DATE April 25 1977
AS CONSTRUCTED
Revised 4-6-PP

30



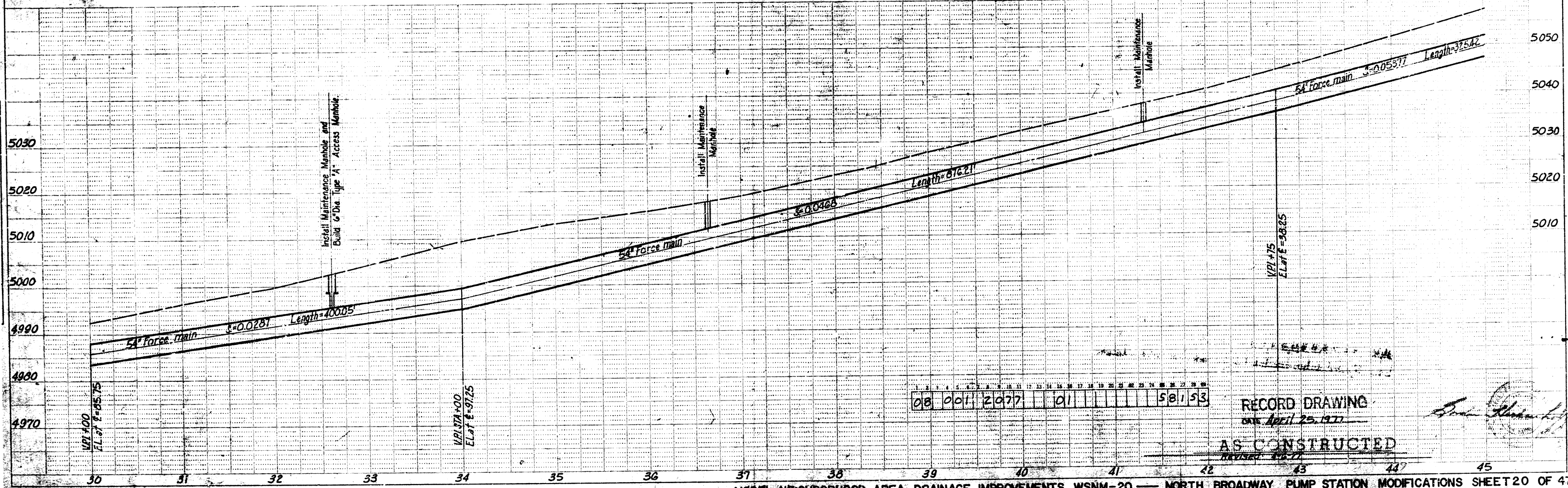
MANHOLE DATA

SMH#130+20 Rim EL=94.02 6" E. INV. EL=95.02 6" W. INV. EL=95.02	SDMH#33+43.5 Rim EL=96.95 Bolted	SDMH#35+53 Rim EL=96.00 Bolted	SDMH#39+51.0 Rim EL=95.52 Bolted	SMH#41+02.5 Rim EL=93.54 6" E. INV. EL=94.94 6" W. INV. EL=94.99
SDMH#250+61.0 Rim EL=94.82 Bolted	SMH#43+70 Rim EL=95.56 6" E. INV. EL=99.76 6" W. INV. EL=99.76	SMH#37+75 Rim EL=92.71 6" E. INV. EL=91.12 6" W. INV. EL=91.07	SDMH#40+52.5 Rim EL=94.57 Bolted	SDMH#43+89.9 Rim EL=91.73 Bolted

NOTE: Joint deflection
= 2°00'00" = D

Bench mark: Chisled on top south
curb Mountain Rd. and east edge
I-25 Bridge EL=5037.03

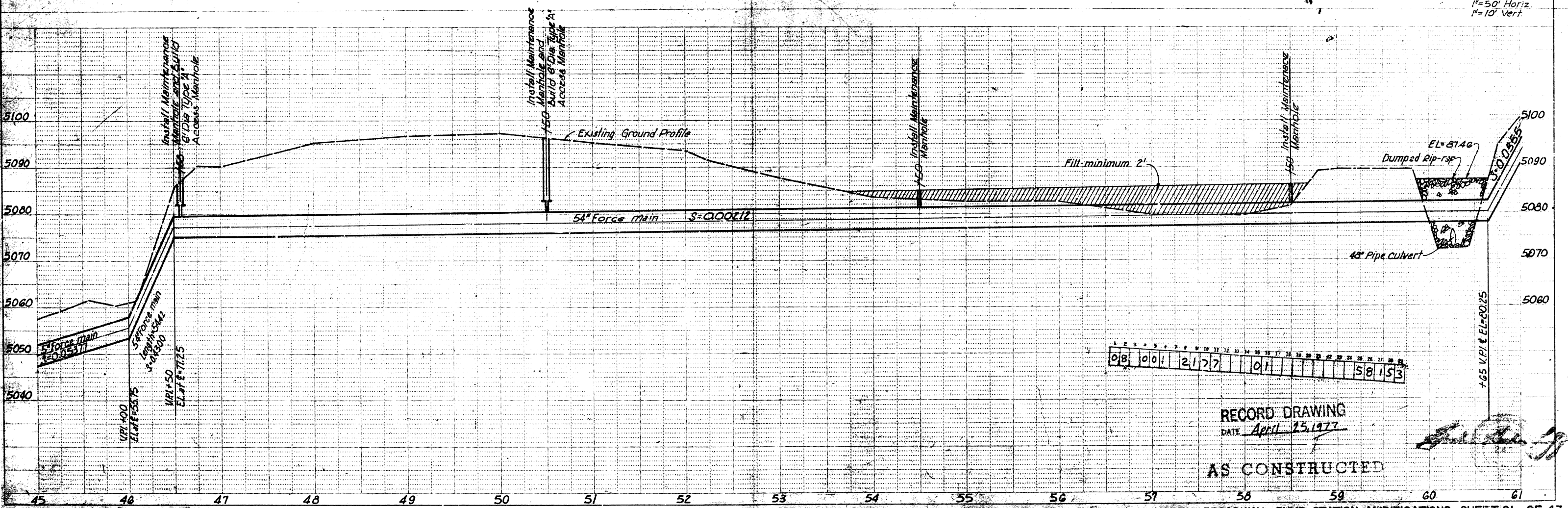
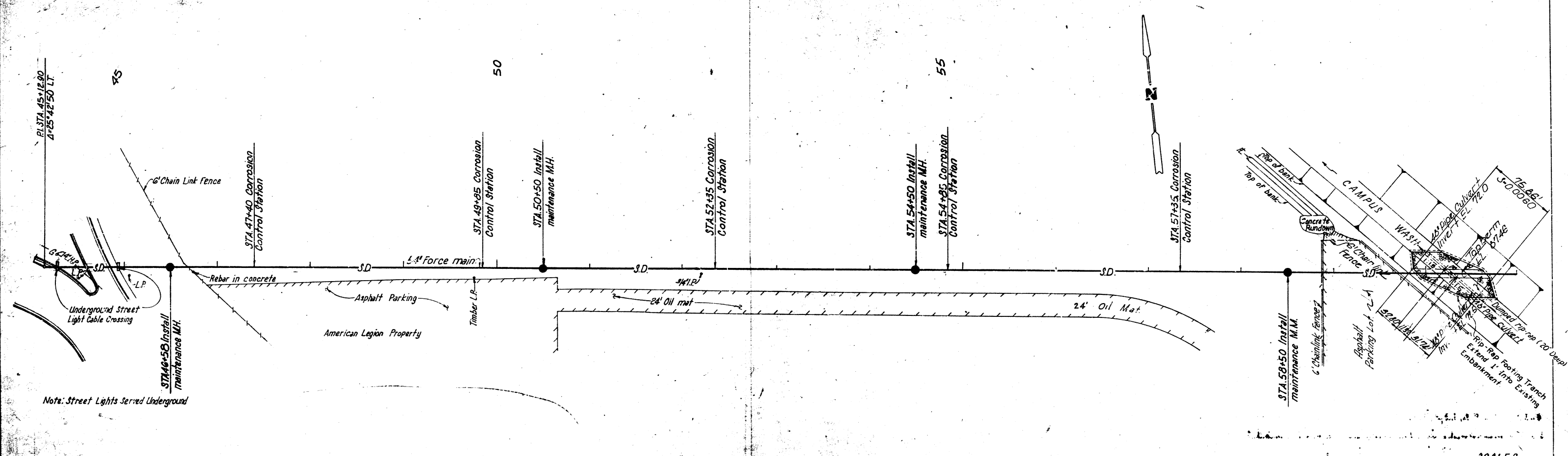
SCALE 3
1"=50' Horiz
1"=10' Vert



08 001 2077 01 581 53

RECORD DRAWING
DATE April 25, 1977

AS CONSTRUCTED

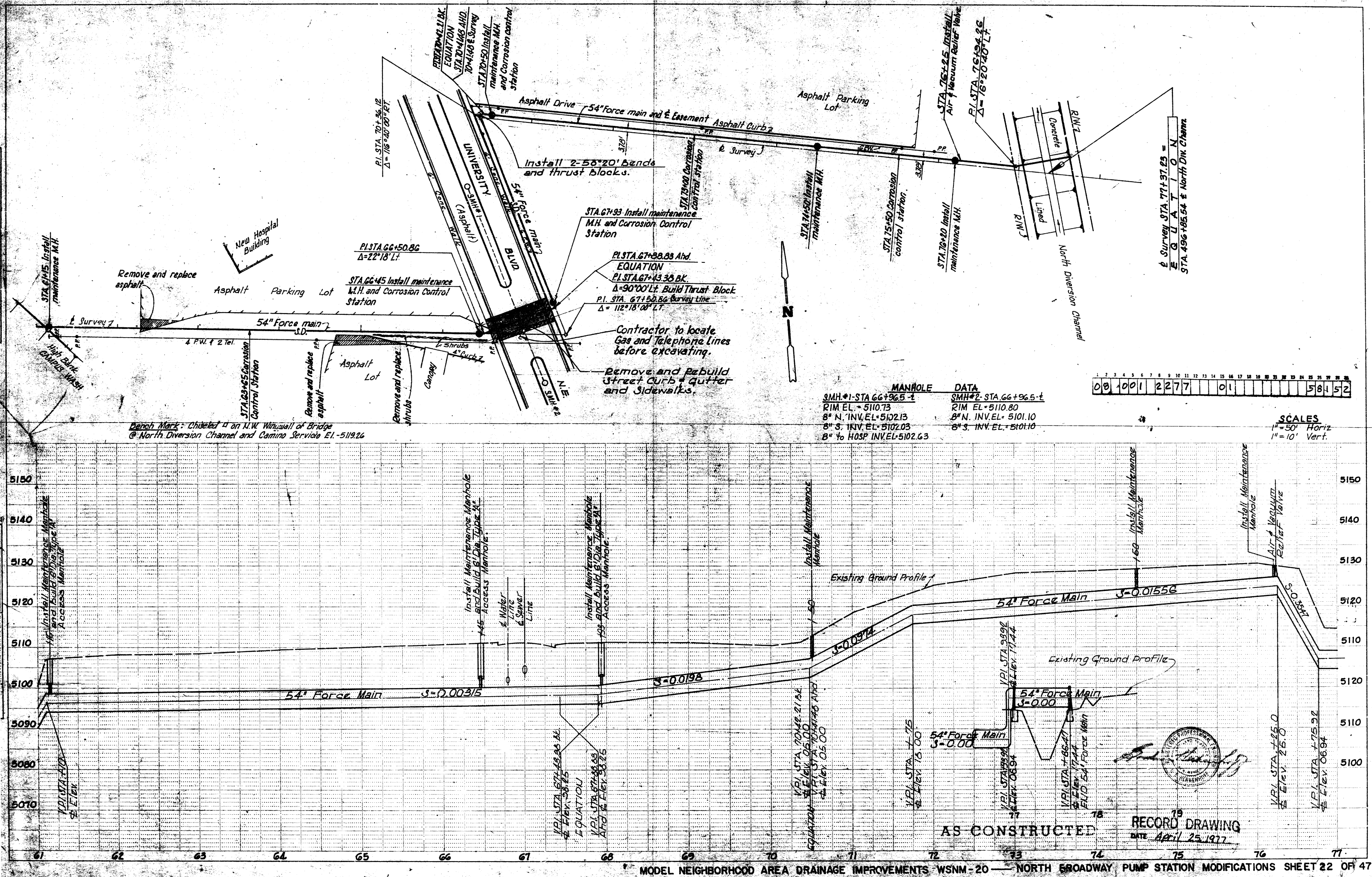


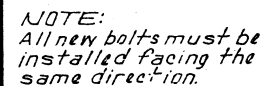
3 SCALES
 1" = 50' Horiz.
 1" = 10' Vert.

08 00 21 77 01 58 15 3

RECORD DRAWING
 DATE April 25, 1977

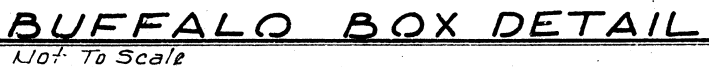
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Not To Scale

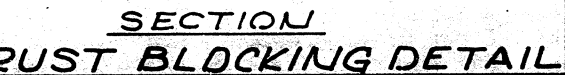
INSULATING FLANGE SCHEDULE



BUFFALO BOX DETAIL
Not To Scale



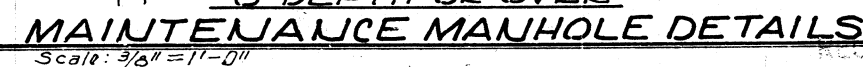
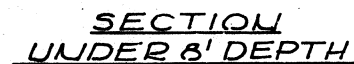
Not To Scale



THRUST BLOCKING SCHEDULE				
STATION	DEFLECTION	MAX. PRESSURE	RESULTANT SO. & AREA (kip) (2000psf)	"X" DIMENSION
15+85.00	74°57'45"	104 psi	283.28	141.64 12' x 12'
18+15.28	10°18'45"	95 psi	39.06	19.55 45' x 45'
24+00.00	15°54'20"	89 psi	56.39	28.20 55' x 55'
25+20.45	16°12'10"	87 psi	56.16	28.08 55' x 55'
PVI 46+50.00	SEE DETAIL	THIS SHEET		
58+92.42	32°46'20"	32 psi	41.35	20.67 45' x 45'
60+27.68	16°45'30"	30 psi	20.20	10.10 35' x 35'
62+78.18	15°01'00"	26 psi	15.55	7.78 3' x 3'
70+12.24	22°45'00"	21 psi	18.96	9.48 3.07' x 3.07'
81+11.11	77°45'55"	9 psi	25.88	12.94 3.6' x 3.6'



(AT PVI STA. 46+50)
Not to Scale



Scale: $3/8" = 1' - 0"$

ALBUQUERQUE, NEW MEXICO

MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
NORTH BROADWAY PUMP STATION MODIFICATIONS

54th FORCE MAIN DETAILS

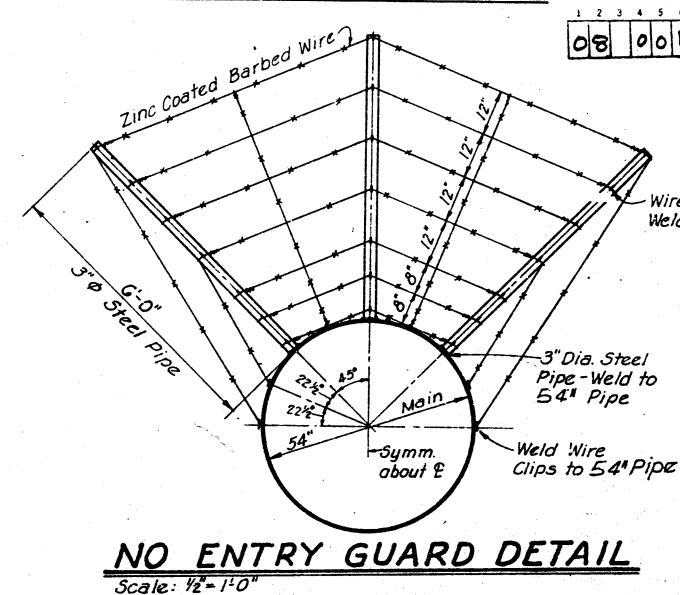
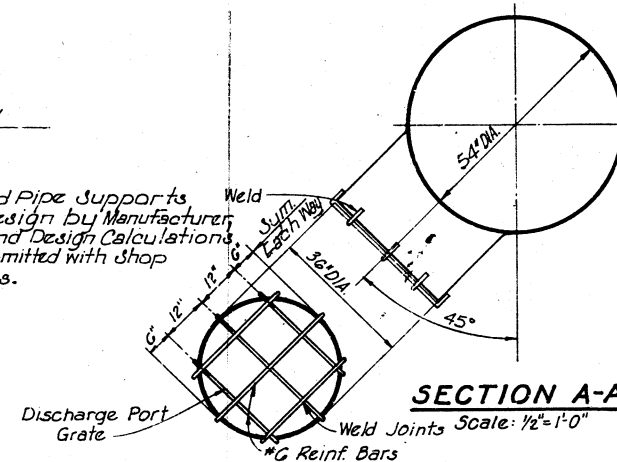
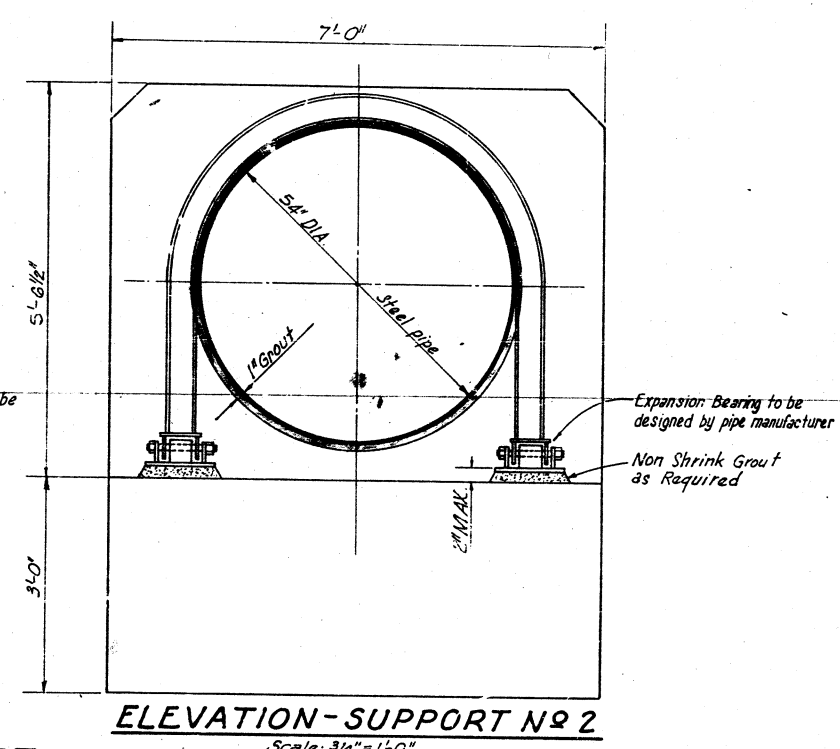
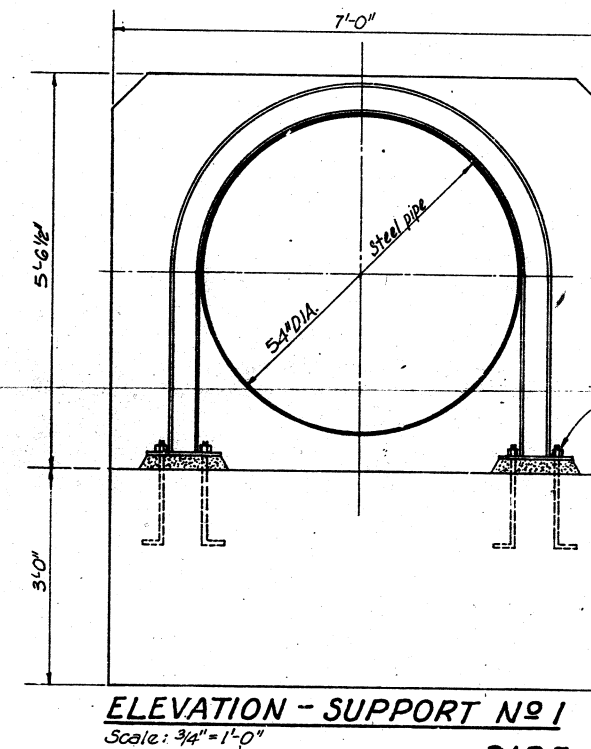
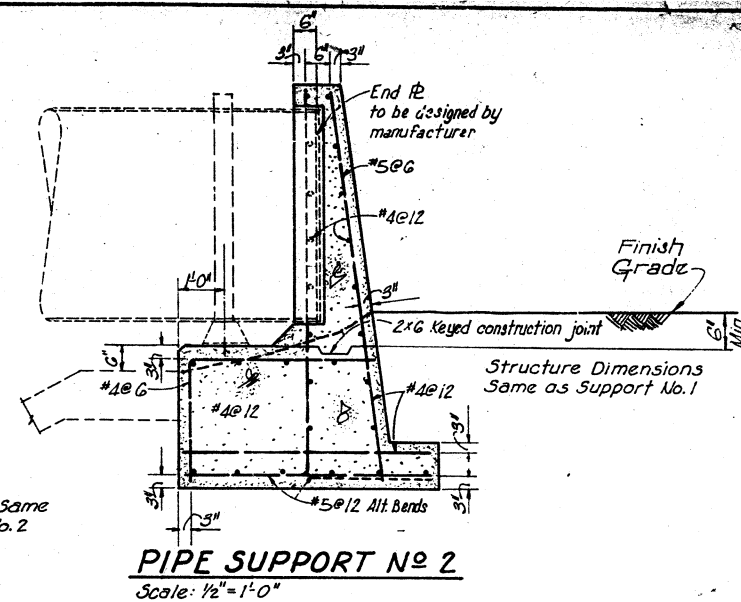
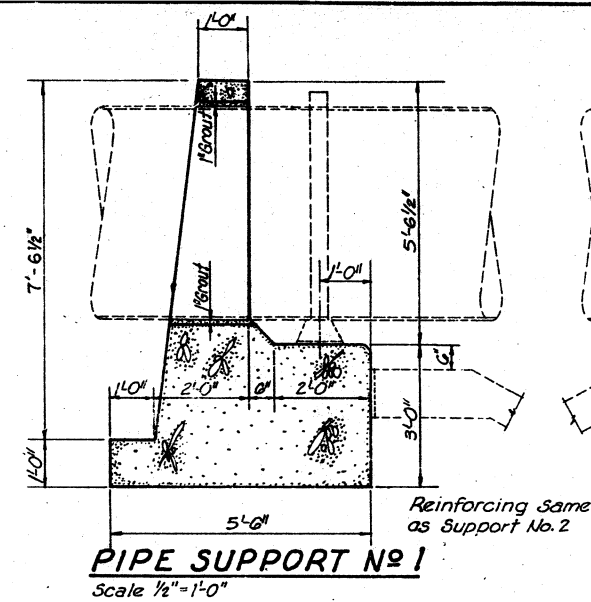
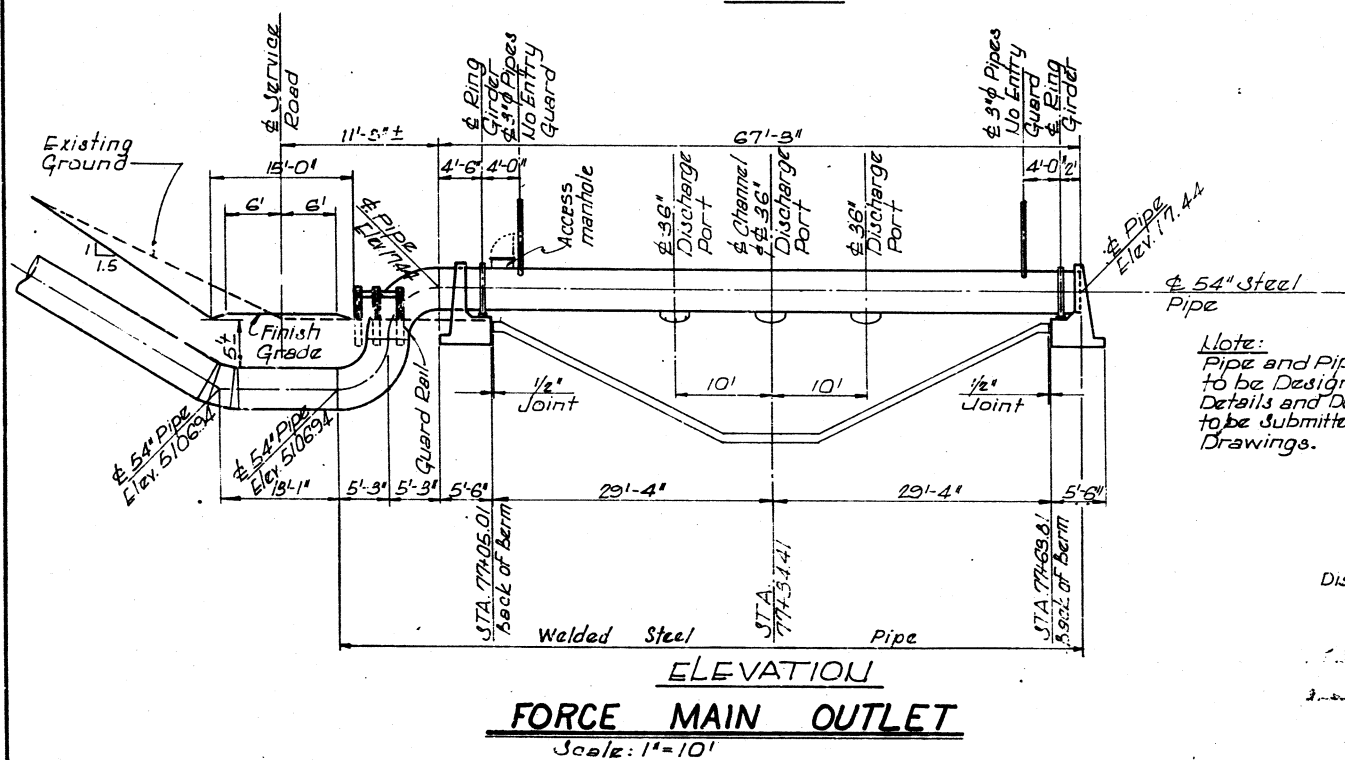
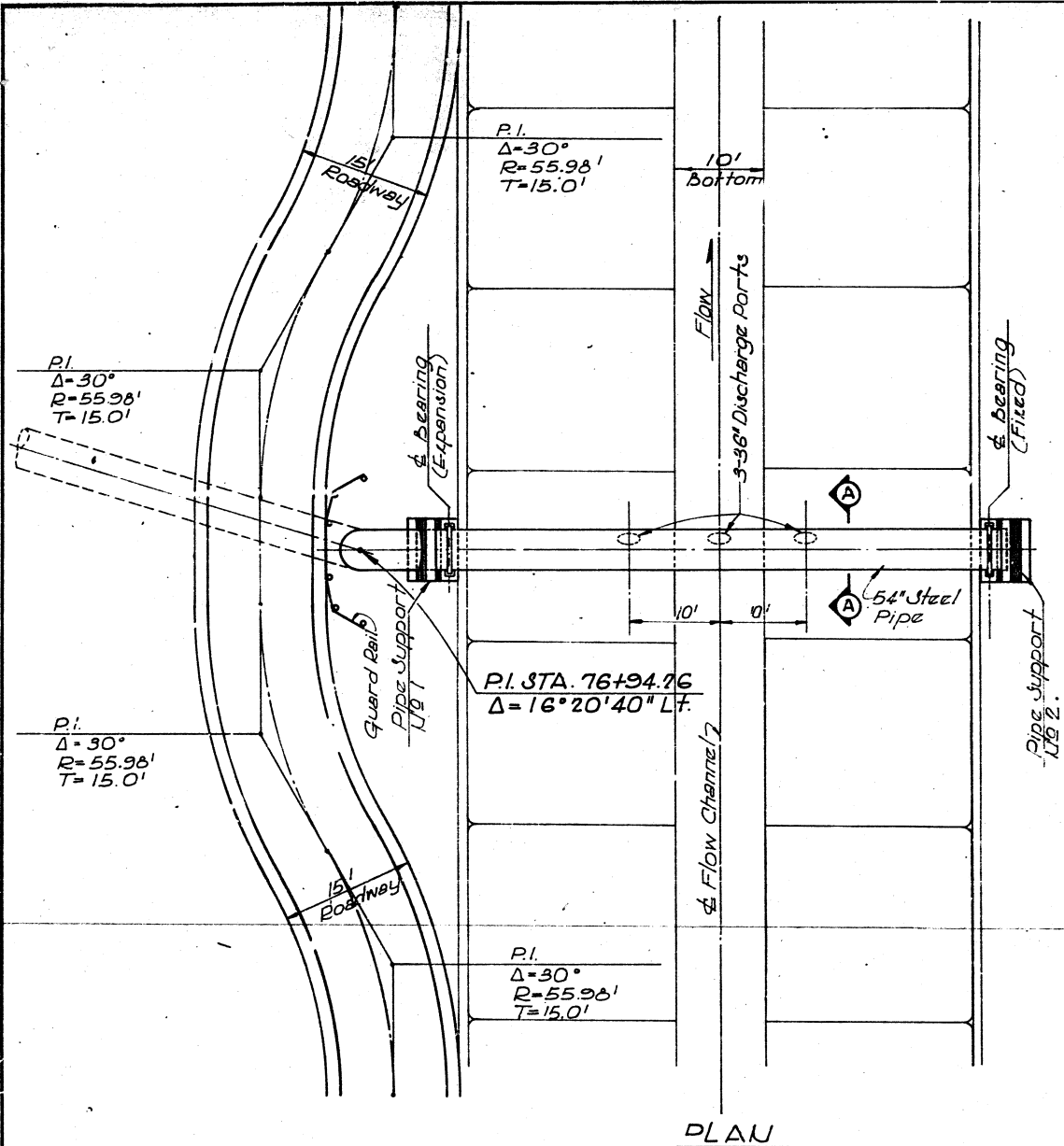
GORDON HERKENHOFF & ASSOCIATES, INC.

CONSULTING ENGINEERS

ALBUQUERQUE			NEW MEXICO
SCALE	DATE	DRAWN: B.G.C.	SHEET 23

AS SHOWN	JUNE 1971	CHECKED: G.A.J.	OF 47
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April 25, 1977



April 25, 1977

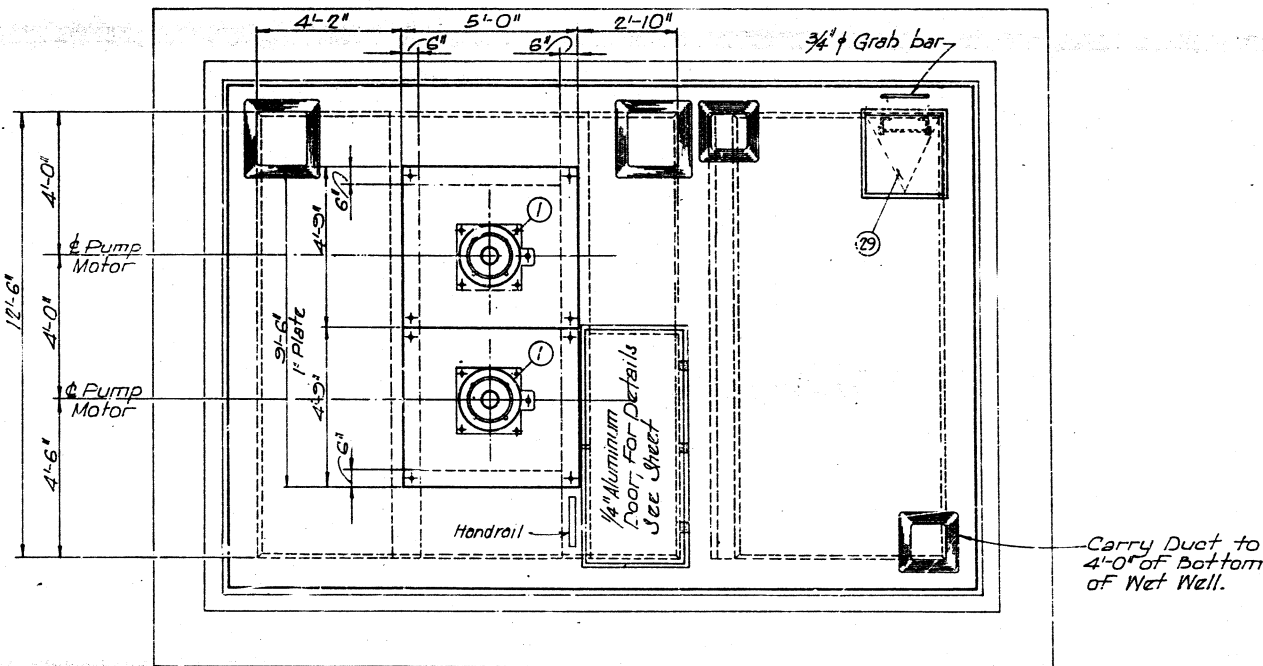
ALBUQUERQUE, NEW MEXICO

MODEL NEIGHBORHOOD AREA DRAINAGE IMPROVEMENTS WSNM-20
NORTH BROADWAY PUMP STATION MODIFICATIONS

OUTLET STRUCTURE

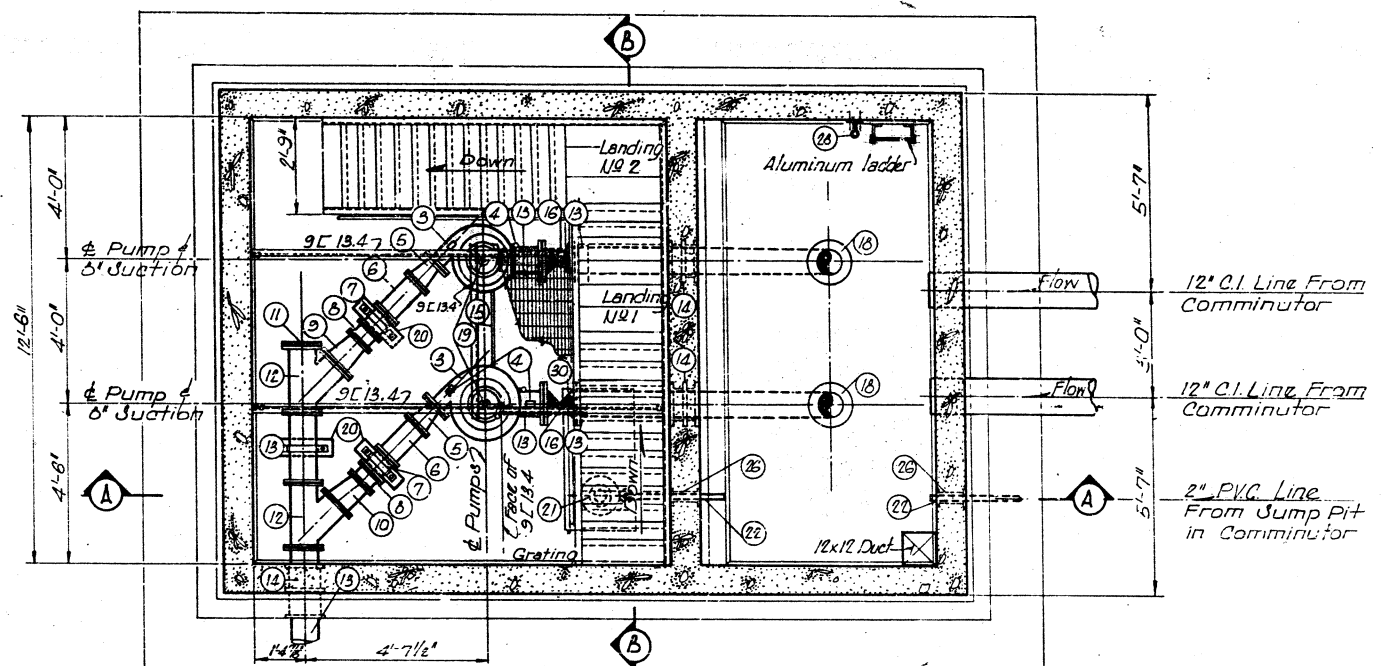
GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

ALBUQUERQUE		NEW MEXICO	
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AS SHOWN	JUNE 1971	CHECKED: G.A.J.	OF 47

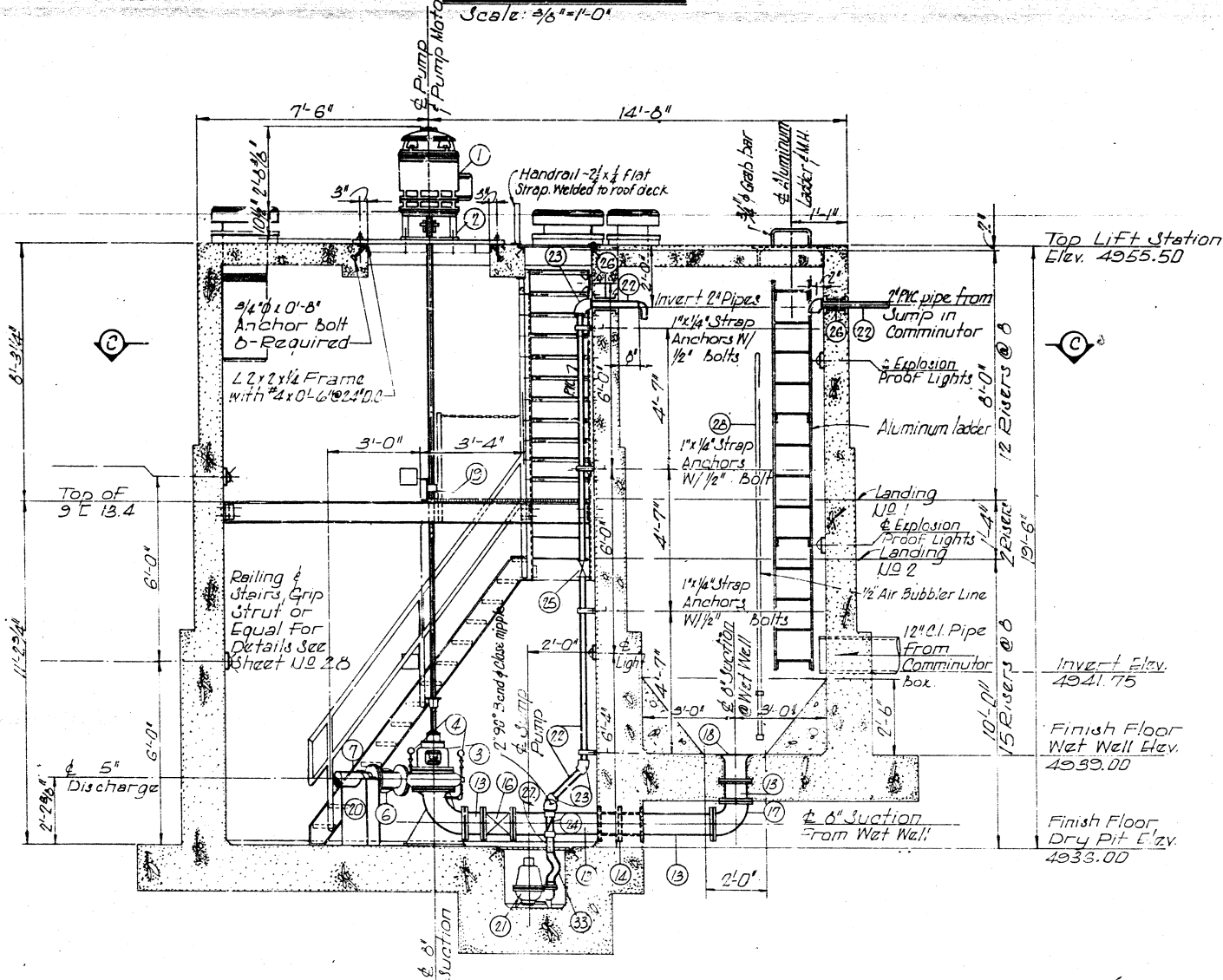


ROOF PLAN

Scale: 3/8" = 1'-0"

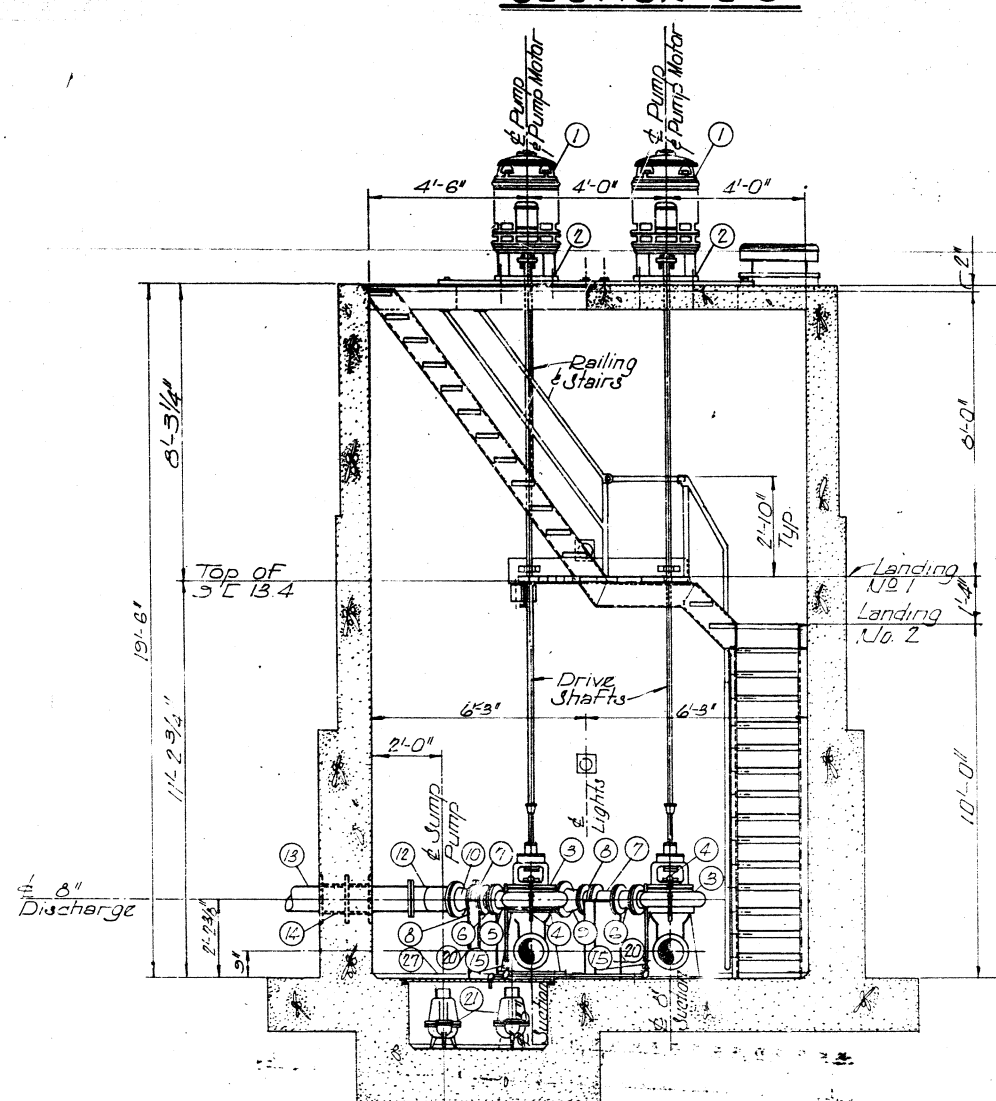


SECTION C-C



SECTION A-A

Scale: 3/8" = 1'-0"



SECTION B-B

Scale: 3/8" = 1'-0"

ITEM	DESCRIPTION
1	Vertical Solid Shaft Motor
2	Stand for Vertical Motor
3	Vertical Dry Pit Centrifugal Pump 700 GPM
4	4 1/2" Pressure Gages (Ashcraft or equal on 1/2" Line with Globe Valve - Two Each Pump - Stainless Movement)
5	5" to 6" C.I. Reducer FL
6	6" Check Valve FL (Crane 583 or Equal)
7	6" C.I. Spool FL
8	6" Gate Valve FL
9	6" to 8" C.I. Concentric Reducer FL
10	6" to 8" C.I. Eccentric Reducer FL
11	6" C.I. Blind Flange
12	6" x 8" x 8" Wye Lateral FL
13	6" C.I. Spool FL
14	6" Pipe Sleeve
15	1" Sewage Relief Valve
16	6" C.I. Butterfly Valve FL
17	6" C.I. 90° Bend FL
18	6" C.I. Suction Bell FL
19	SHAFT SUPPORT BEARINGS as Required by Pump Manufacturer
20	Concrete Pipe Support
21	50 GPM Sump Pump 1/2" x 20" Weirman Immersible or Equal
22	2" PVC Spool
23	2" PVC 45° Bend
24	2" Swing Check Valve
25	2" Gate Valve
26	2" Pipe Sleeve
27	Neenah R-4856 Grate and R-4855 Angle Frame or Equal
28	1/2" PVC Anchor for Bubbler 1/2" PVC Schedule 80 Bubbler Tube
29	24" x 24" Manhole Neenah R-6660-KH Light duty Frame & Cover
30	Steel Grating - Carrying bars 1 1/2" x 3/4" Spaced @ 1 1/2" o.c.
31	Ironing K' Bar or Equal
32	Intake Hood - See Details Sheet U9 29
33	Relief Hood - See Details Sheet U9 29
34	2" Rubber hose Connection (Flexible)

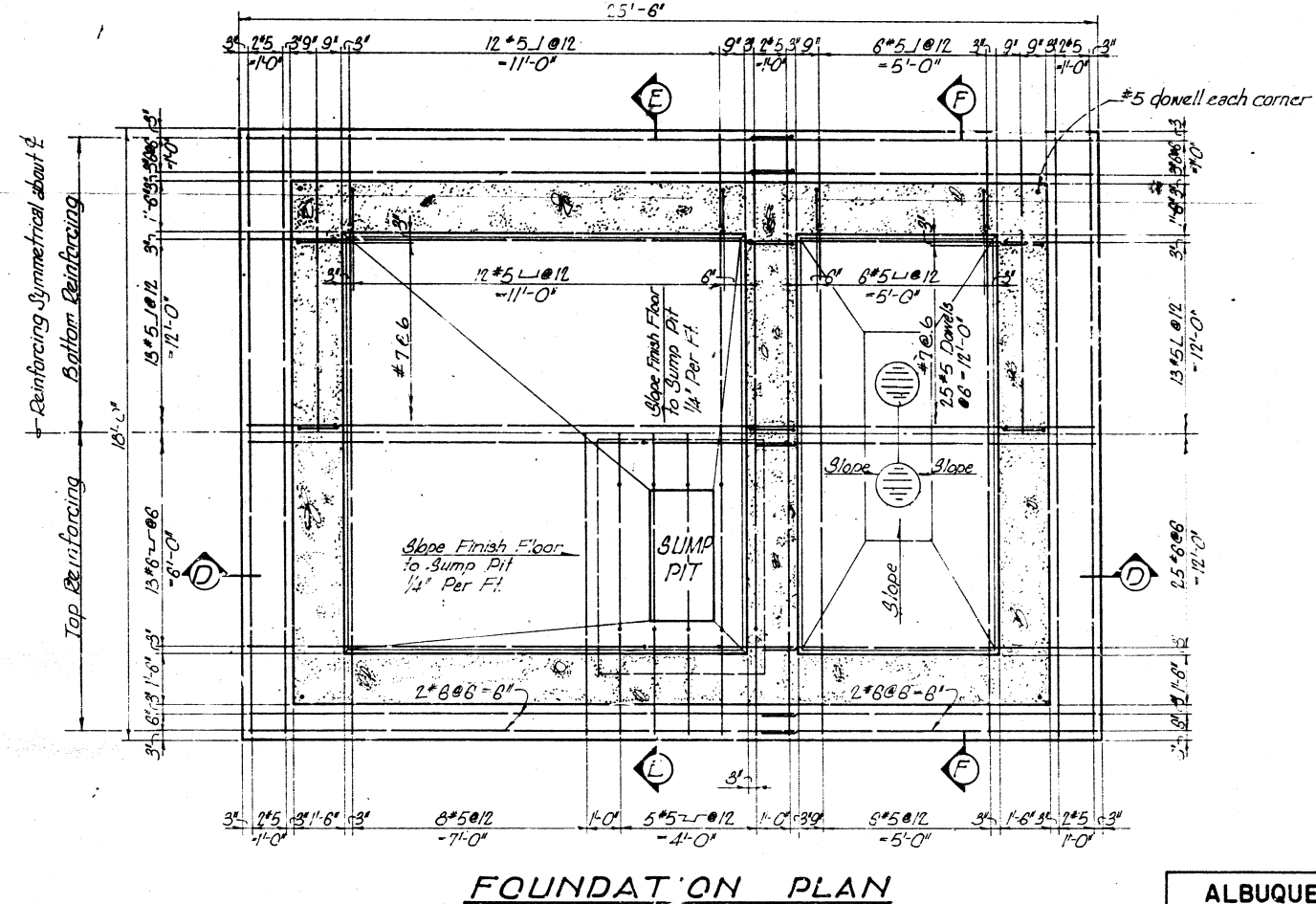
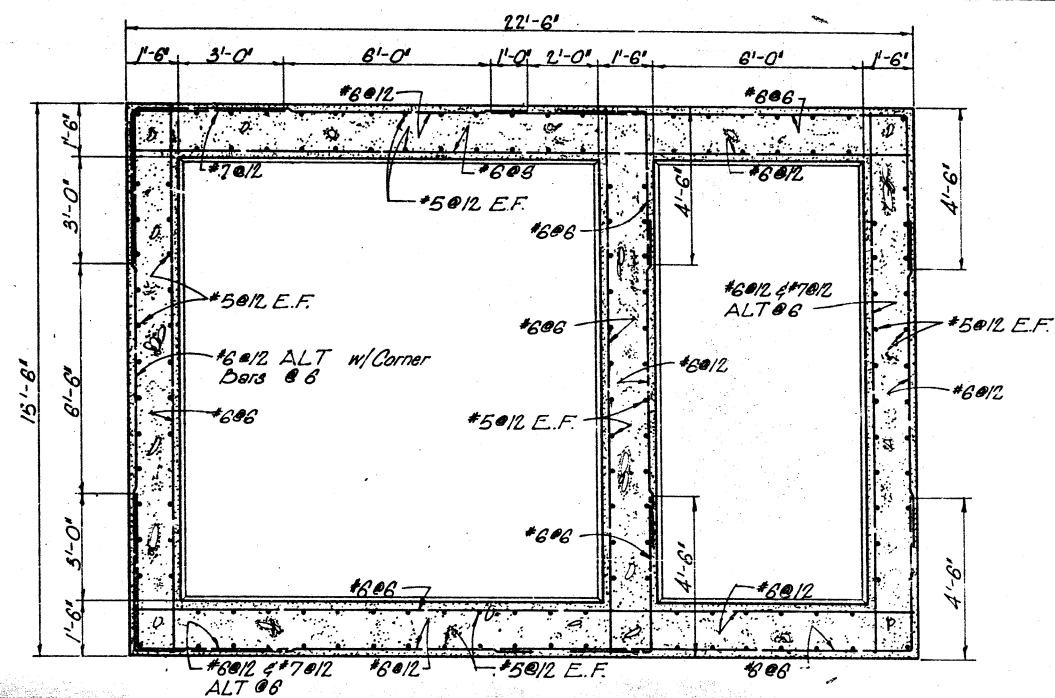
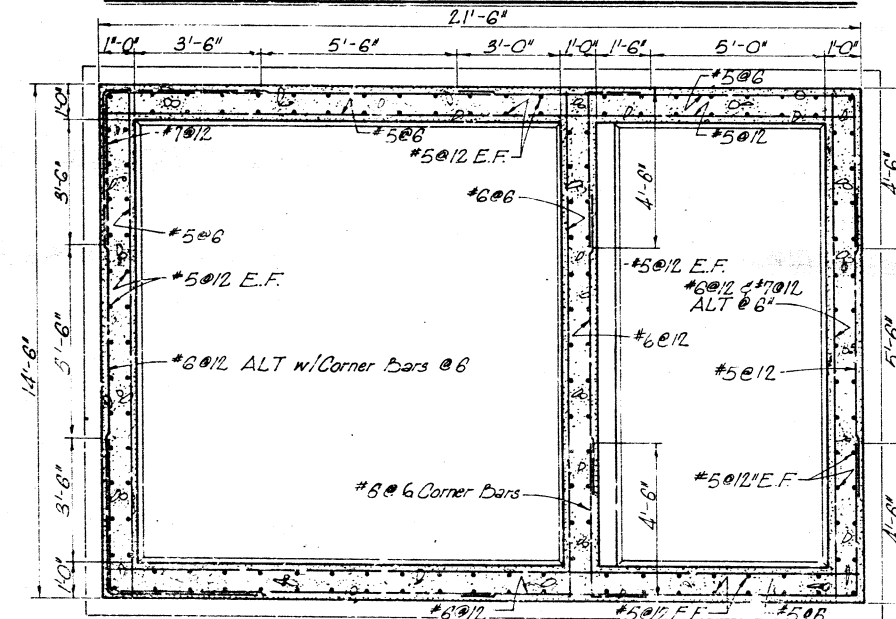
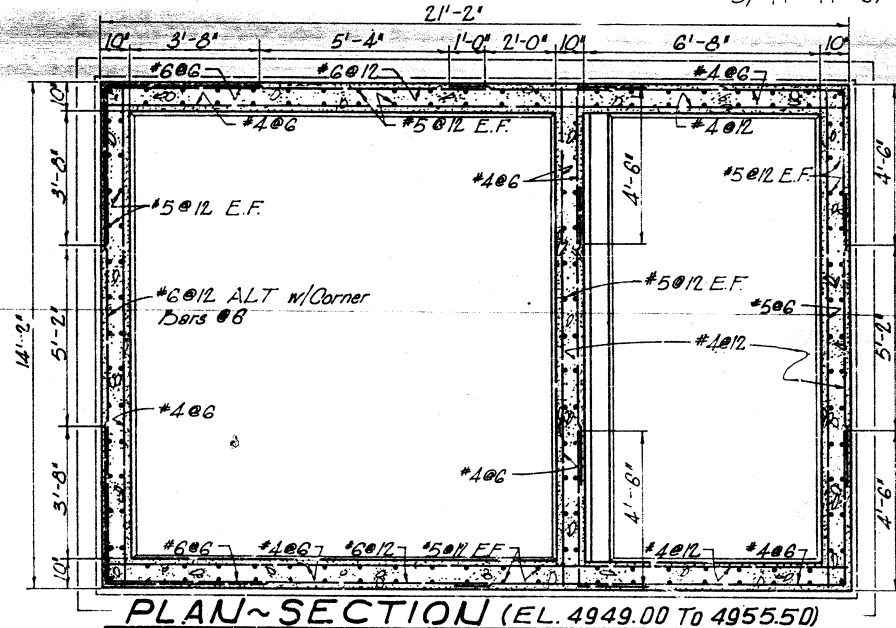
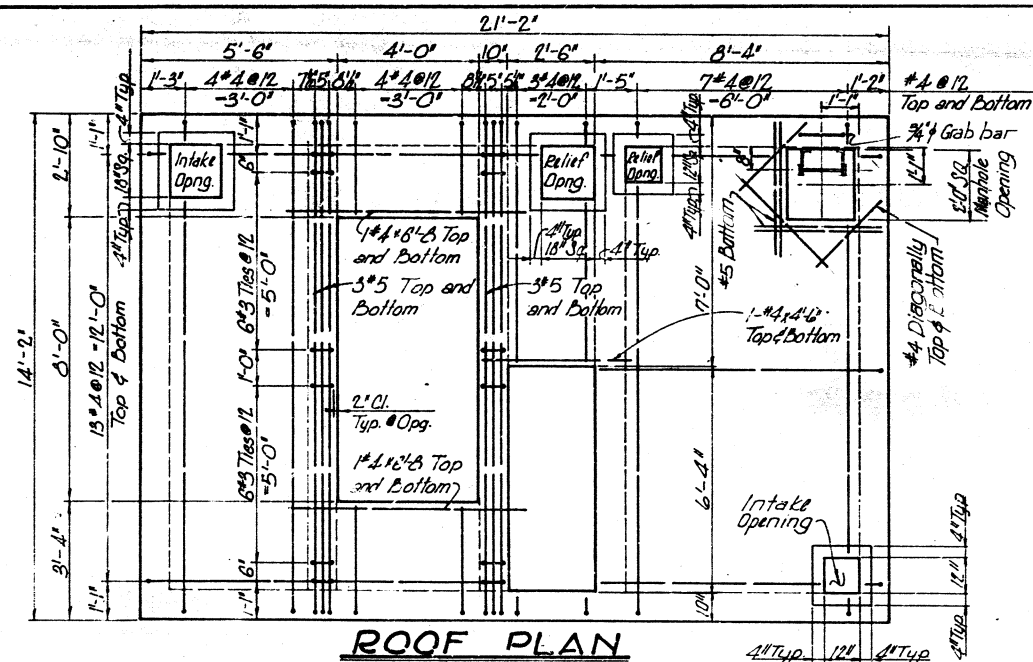
ALBUQUERQUE, NEW MEXICO

MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
NORTH BROADWAY PUMP STATION MODIFICATIONS
SANITARY SEWER LIFT STATION NO. 6
PLAN, SECTIONS AND SCHEDULES

	GORDON HERKENHOFF & ASSOCIATES, INC.		
	CONSULTING ENGINEERS		
	ALBUQUERQUE	NEW MEXICO	
SCALE	DATE	DRAWN: RAG	SHEET 25
3/8" = 1'-0"	SEPT. 1971	CHECKED: GAJ	OF 47

08 001 2577 08 02

April 25, 1977



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
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April 25, 1977

ALBUQUERQUE, NEW MEXICO

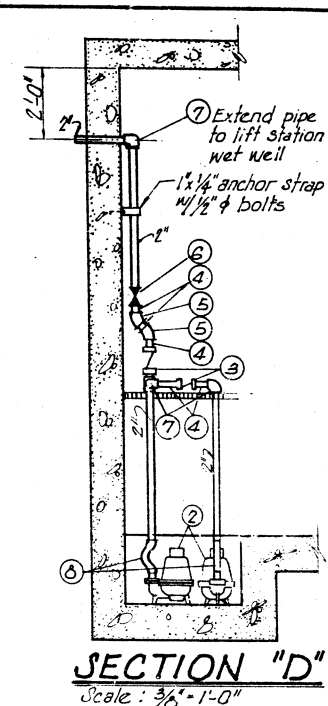
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20

NORTH BROADWAY PUMP STATION MODIFICATION

SANITARY SEWER LIFT STATION NO.6 STRUCTURAL DETAILS

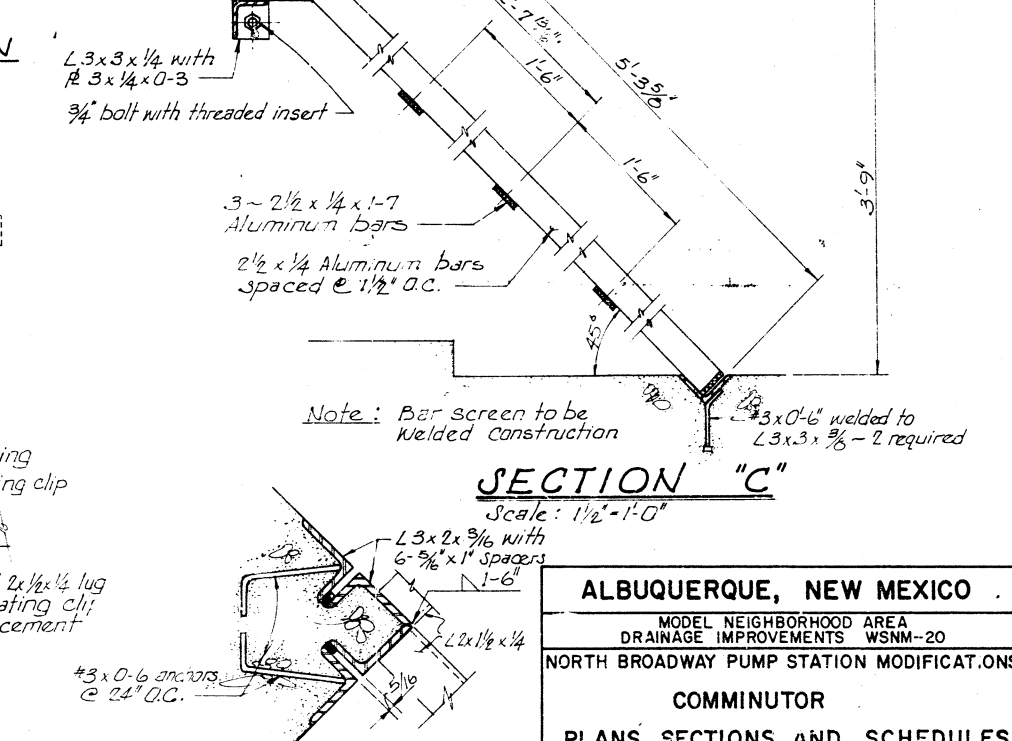
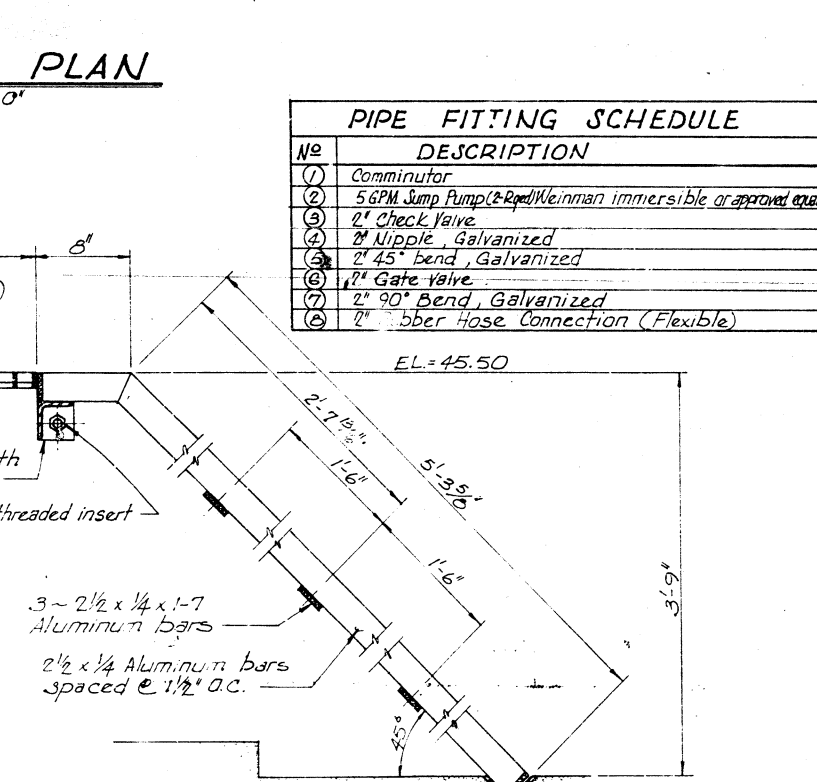
GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

ALBUQUERQUE		NEW MEXICO	
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3/8" = 1'-0"	SEPT. 1971	CHECKED: GAJ.	OF 47



PIPING PLAN

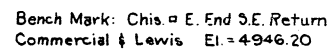
Scale: $\frac{3}{8}" = 1'-0"$



CHANNEL NOSE DETAIL
Scale : 3"=1'-0"

A hand-drawn stratigraphic column with depth markers on the left and descriptive text on the right. The column is divided into sections with different patterns: cross-hatching for the top section, dots for the middle section, and diagonal hatching for a gravel layer. The depth markers are in feet, with some additional markings like '450' and '40' at the bottom.

Depth (ft)	Description
0 - 5'	Brown to Light Tan, Silty to Very Silty Sand and Sandy, Clayey Silt.
5' - 10'	Light Brown to Gray, Primarily Medium to Fine Graded River Deposited Sands.
10' - 15'	
15' - 20'	
20' - 25'	Traces to a Little Small Sized Gravel
25' - 30'	A Few Thin Silty Clay Layers Noted at Approximately 27 Foot and 37 Foot Depths.
30' - 35'	
35' - 40'	
40' - 450'	

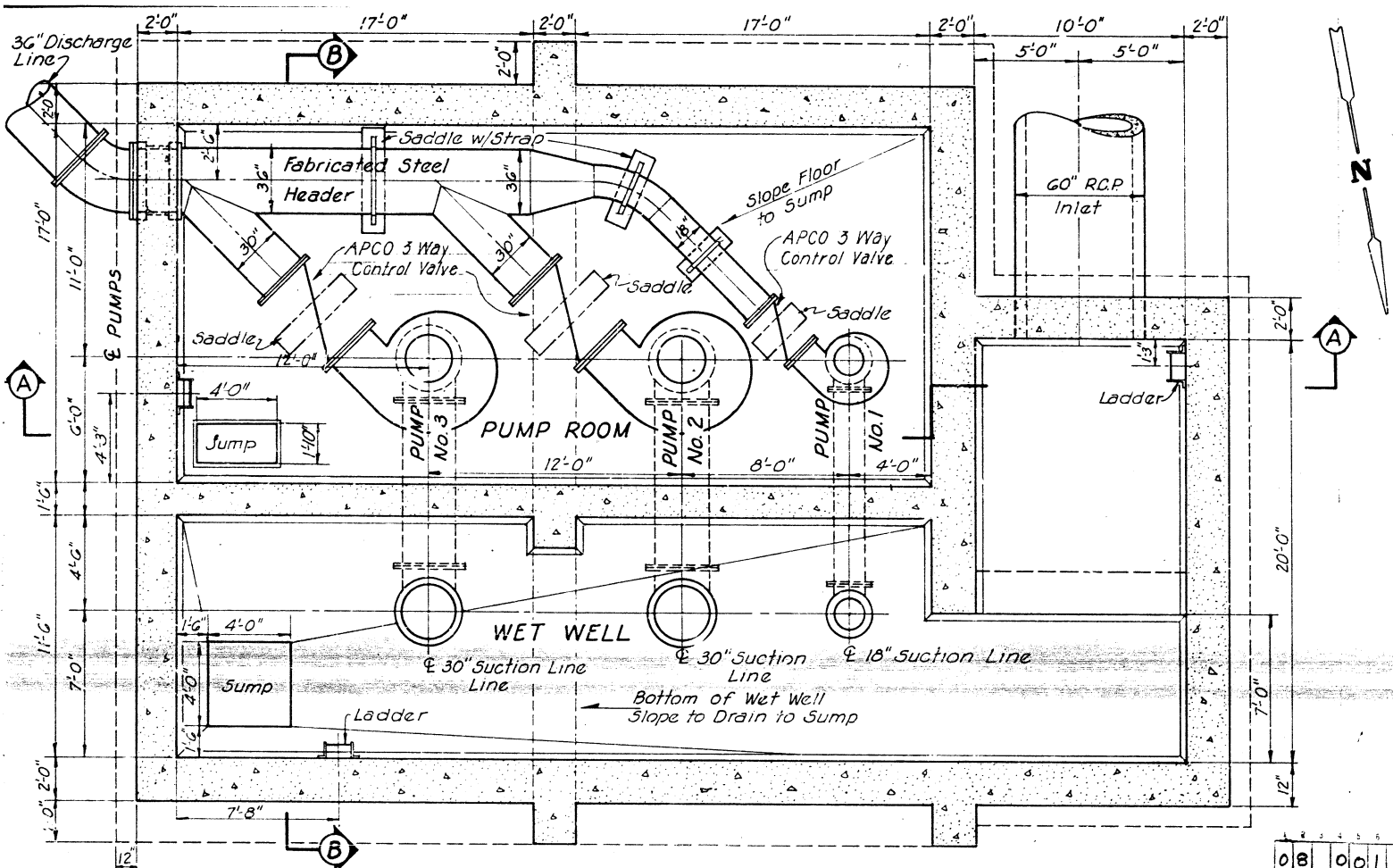


Scale: 1" = 10'

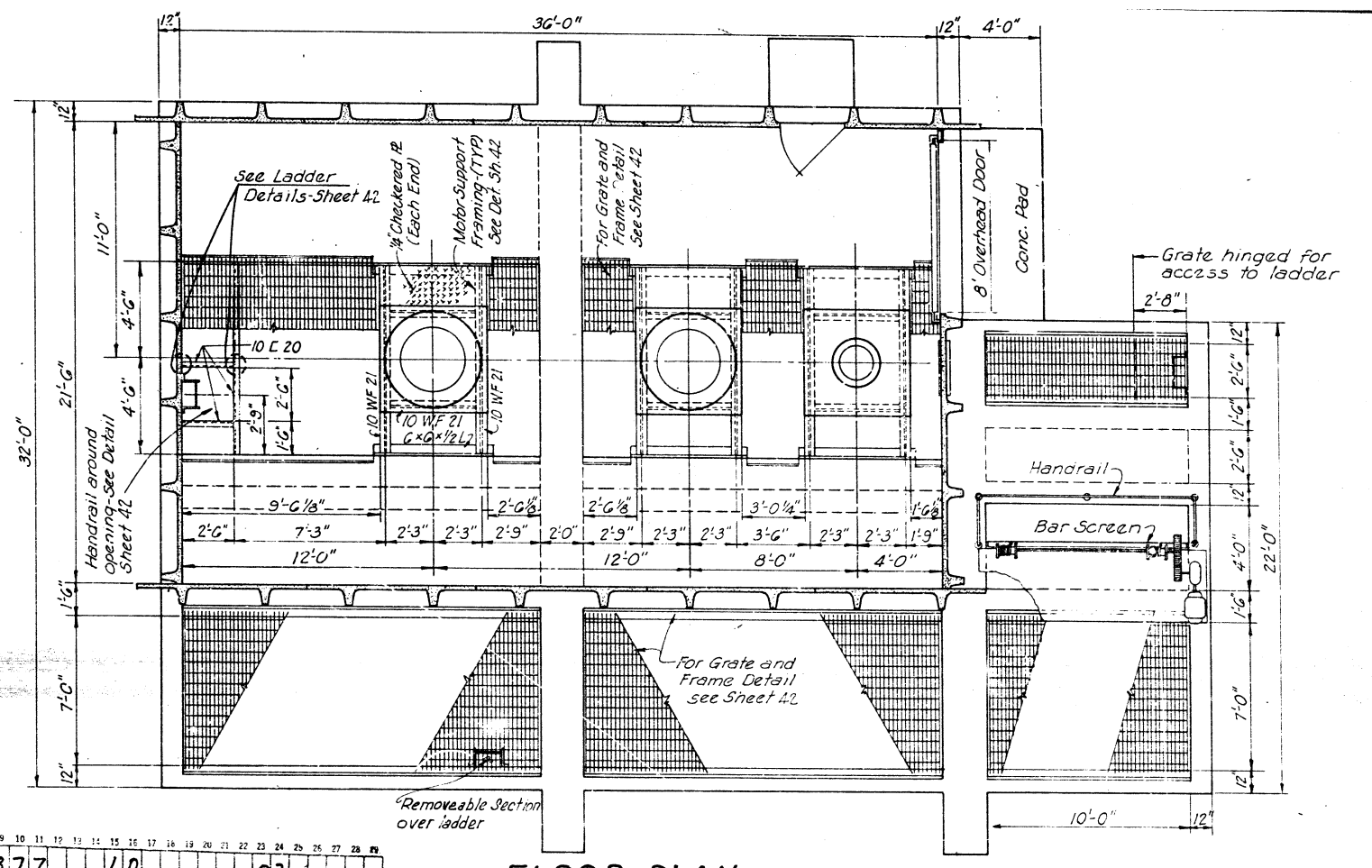
Scale: 1" = 10'

ALBUQUERQUE		NEW MEXICO	
SCALE AS SHOWN	DATE JUNE 1971	DRAWN: G.C. CHECKED: G.A.J.	SHEET 37 OF 47

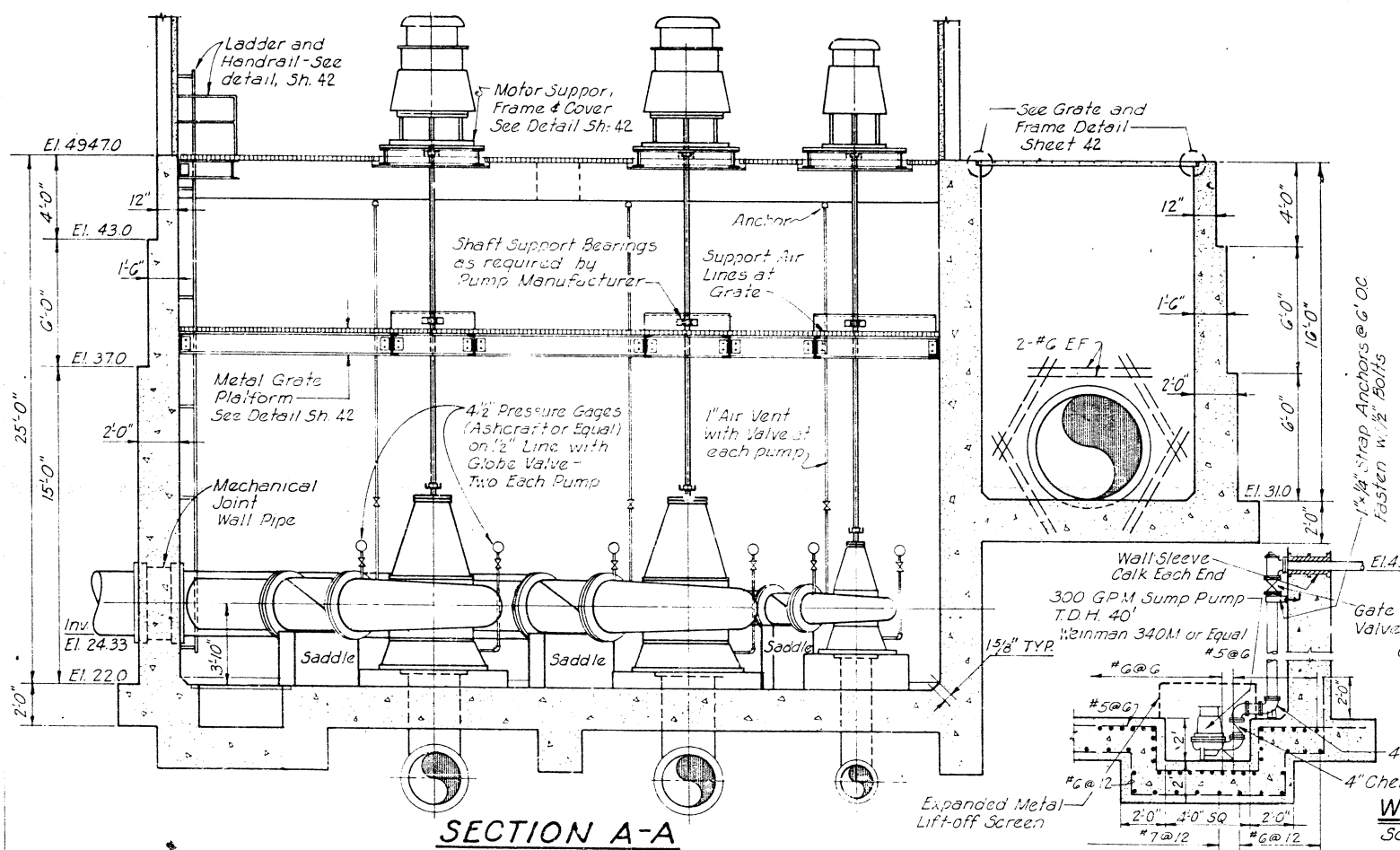
April 25, 1977



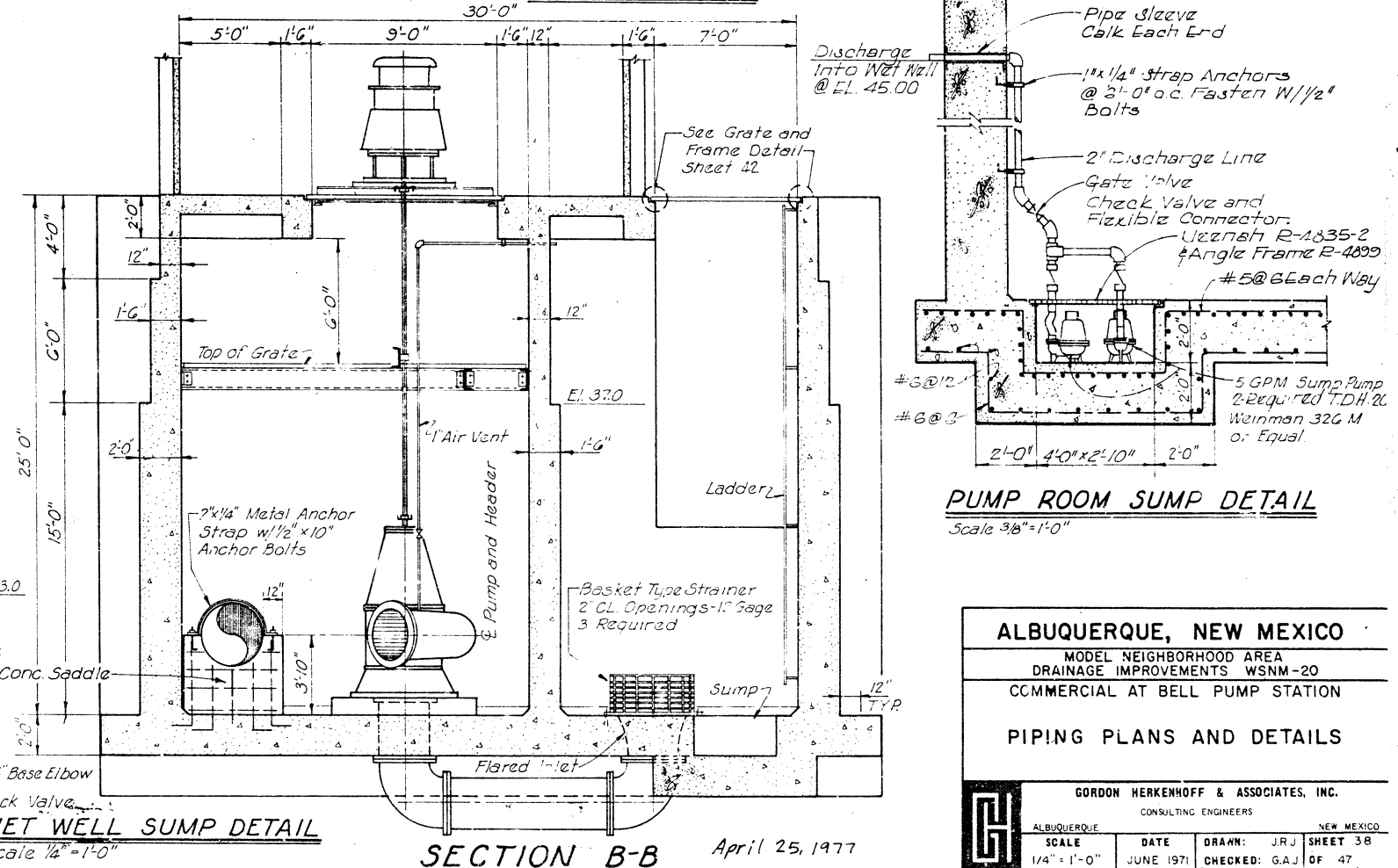
PUMP ROOM AND FOUNDATION PLAN - SECTION C-C



FLOOR PLAN



SECTION A-A



WET WELL SUMP DETAIL
Scale 1/4" = 1'-0"

SECTION B-B

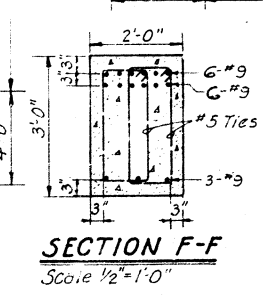
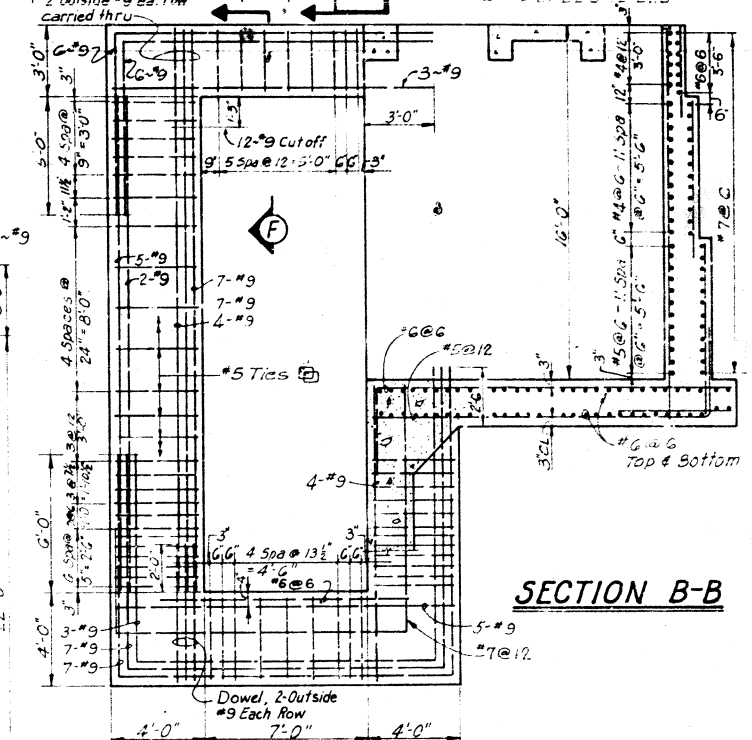
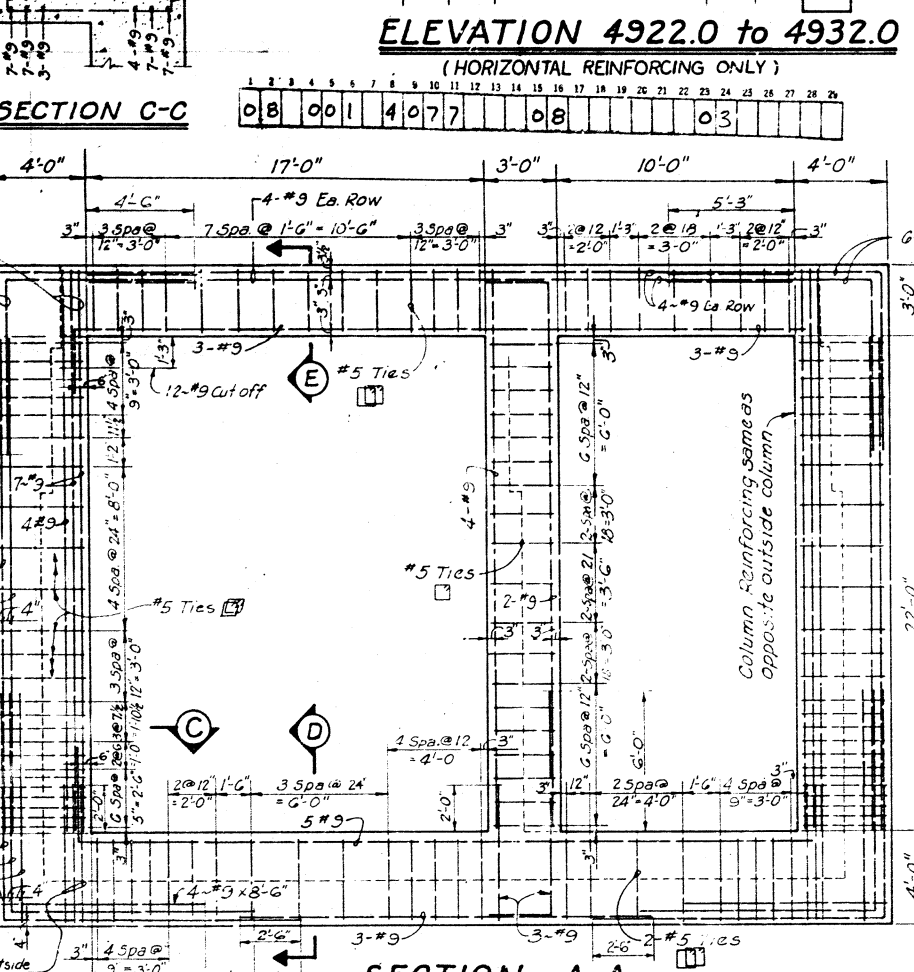
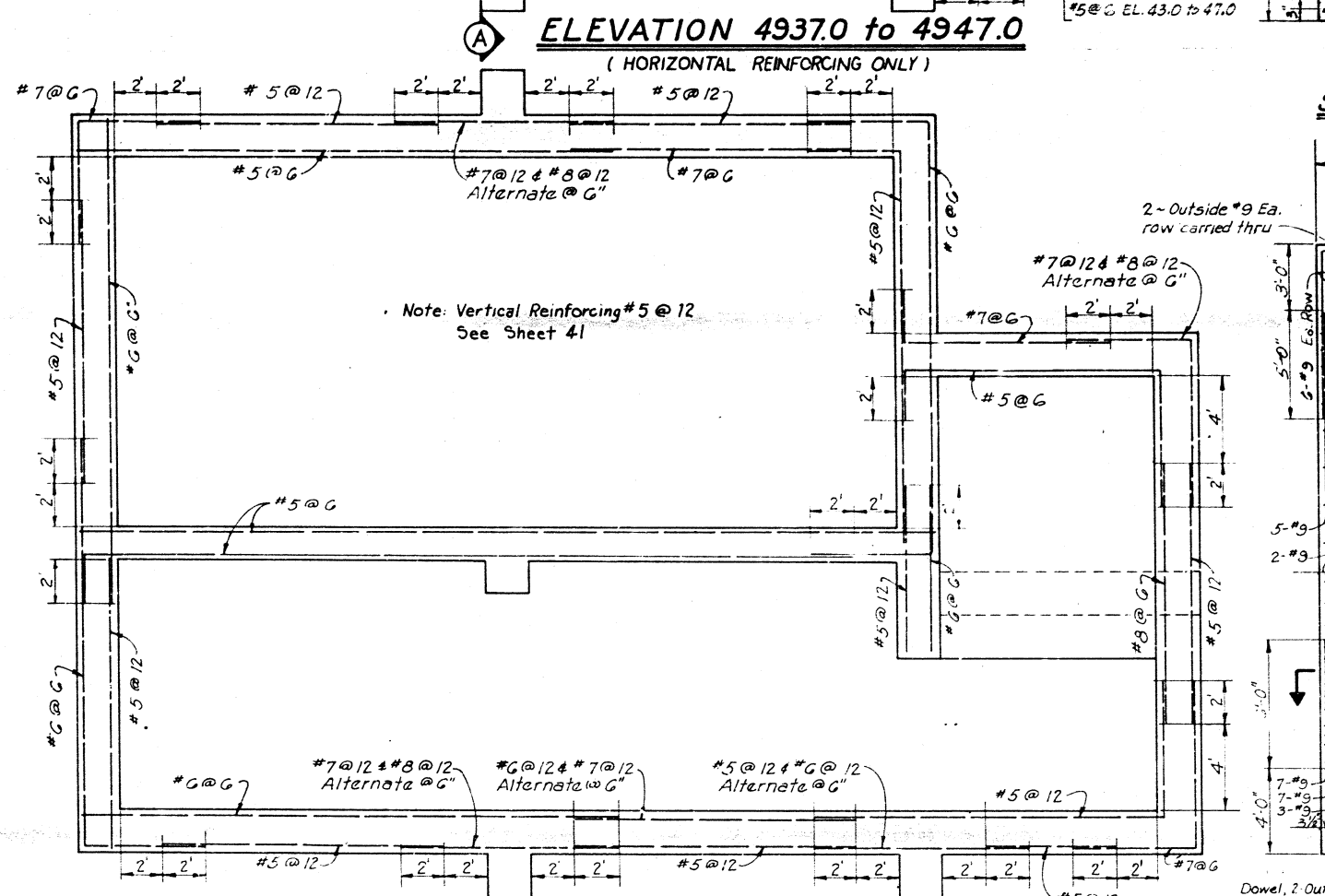
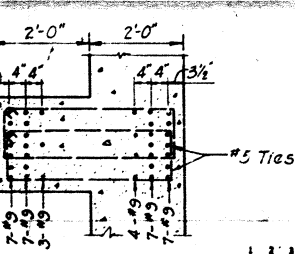
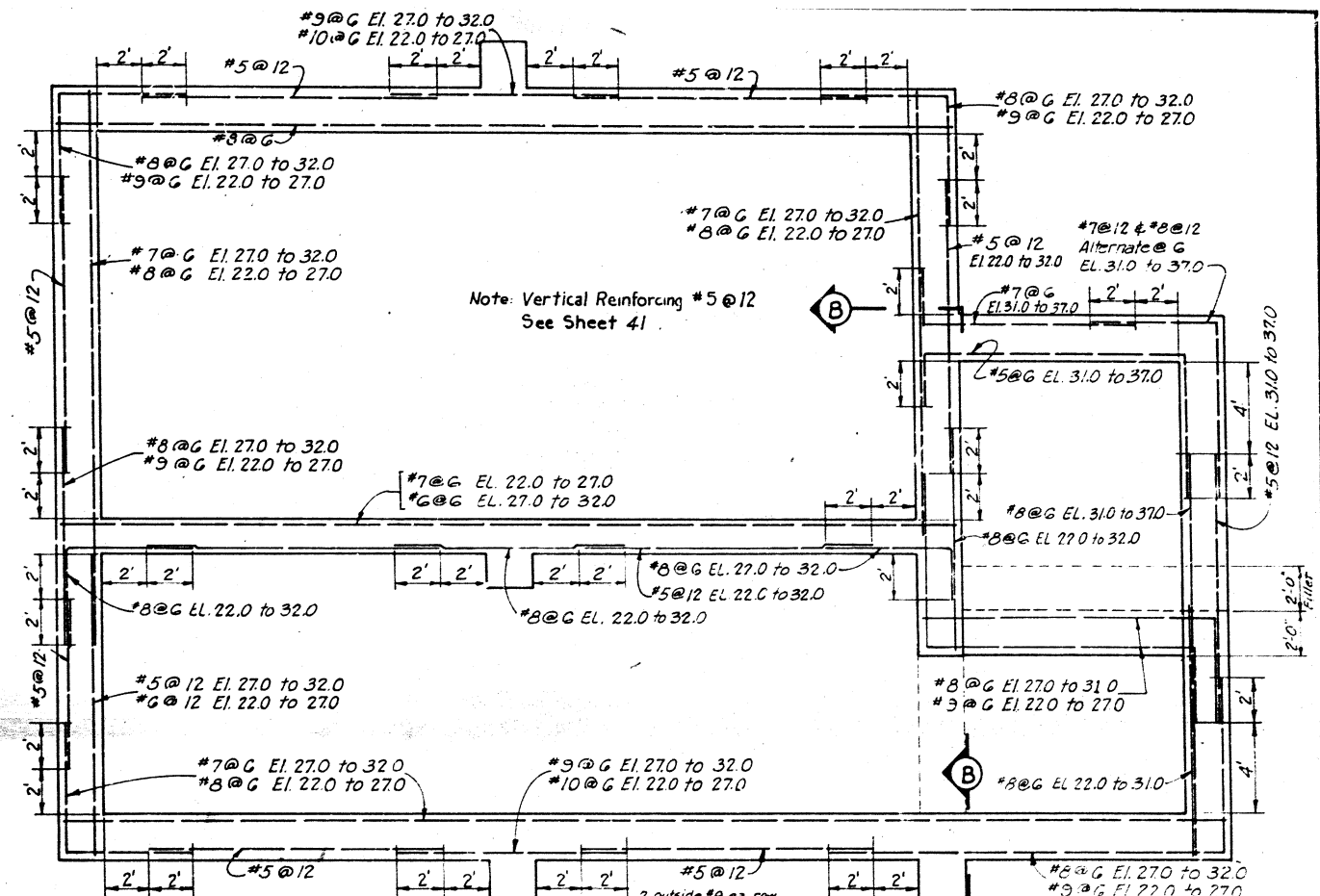
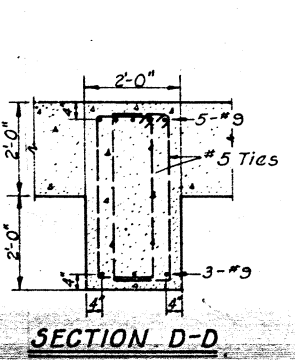
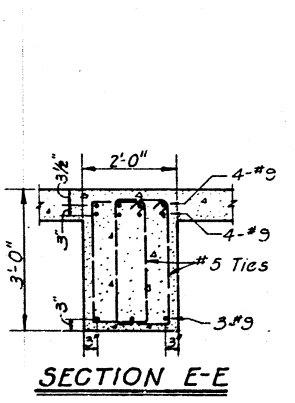
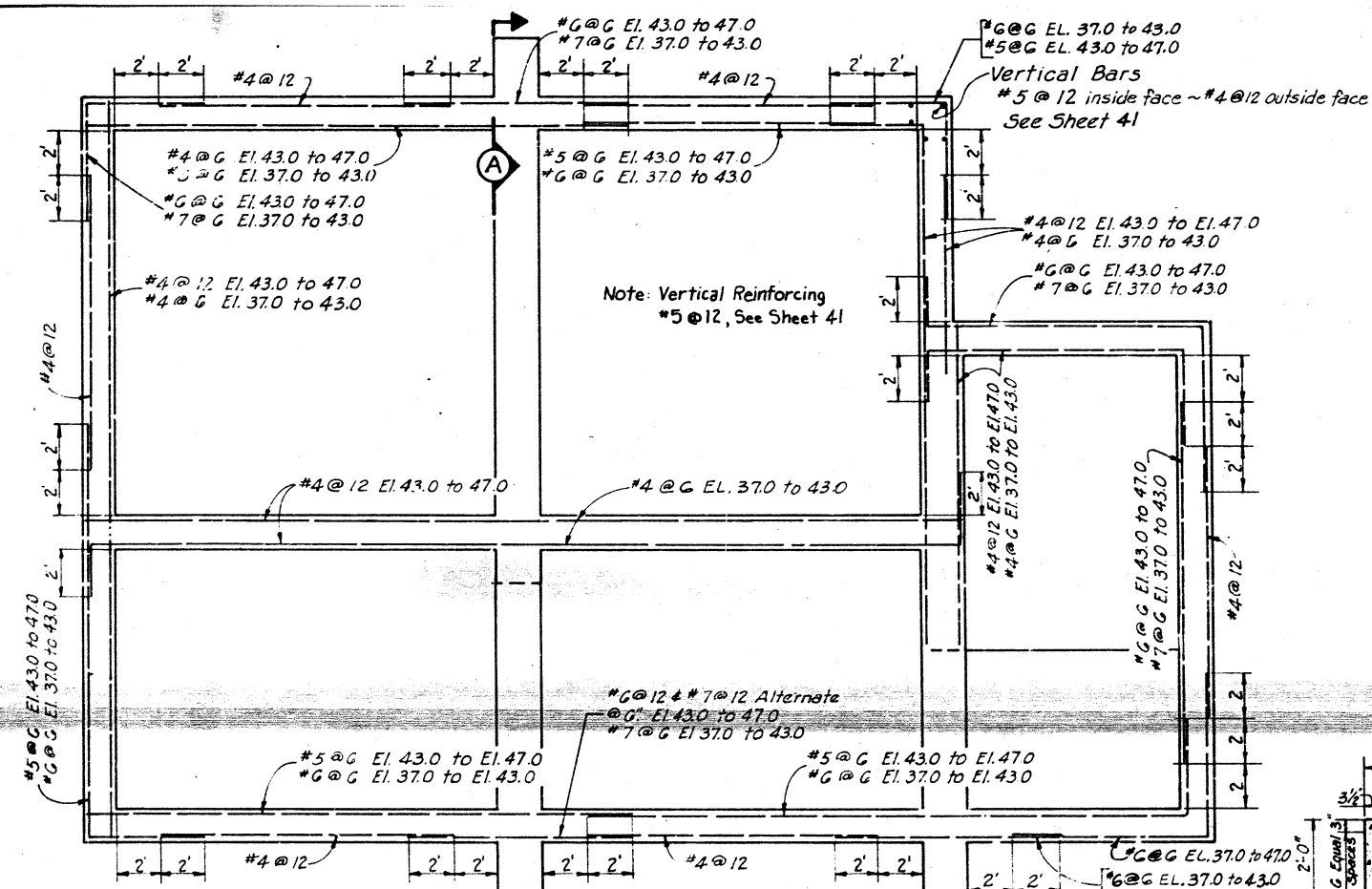
April 25, 1977

ALBUQUERQUE, NEW MEXICO
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
COMMERCIAL AT BELL PUMP STATION

PIPING PLANS AND DETAILS

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

ALBUQUERQUE NEW MEXICO
SCALE 1/4" = 1'-0" DATE JUNE 1971 DRAWN: JRJ SHEET 38
CHECKED: G.A.J. OF 47

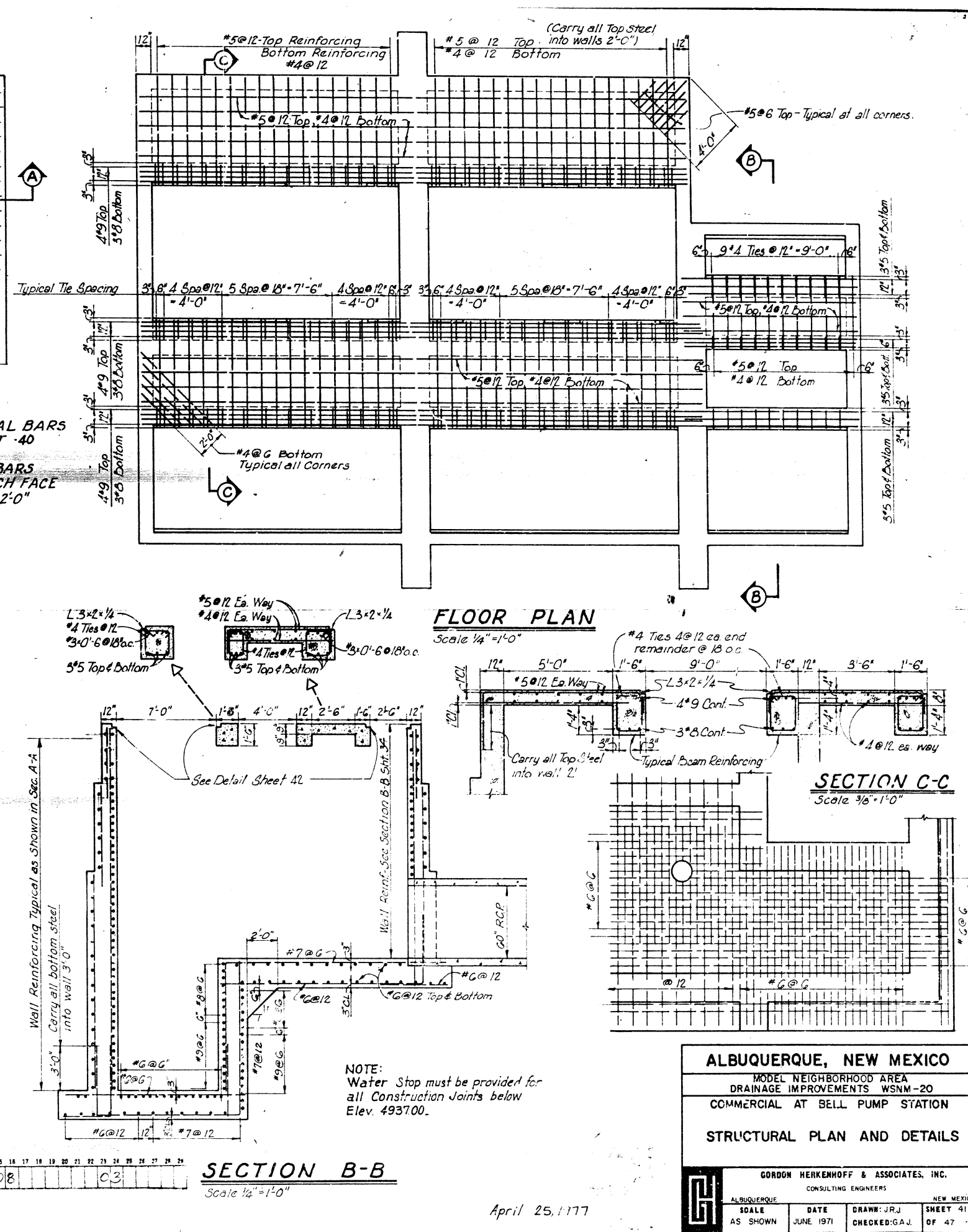
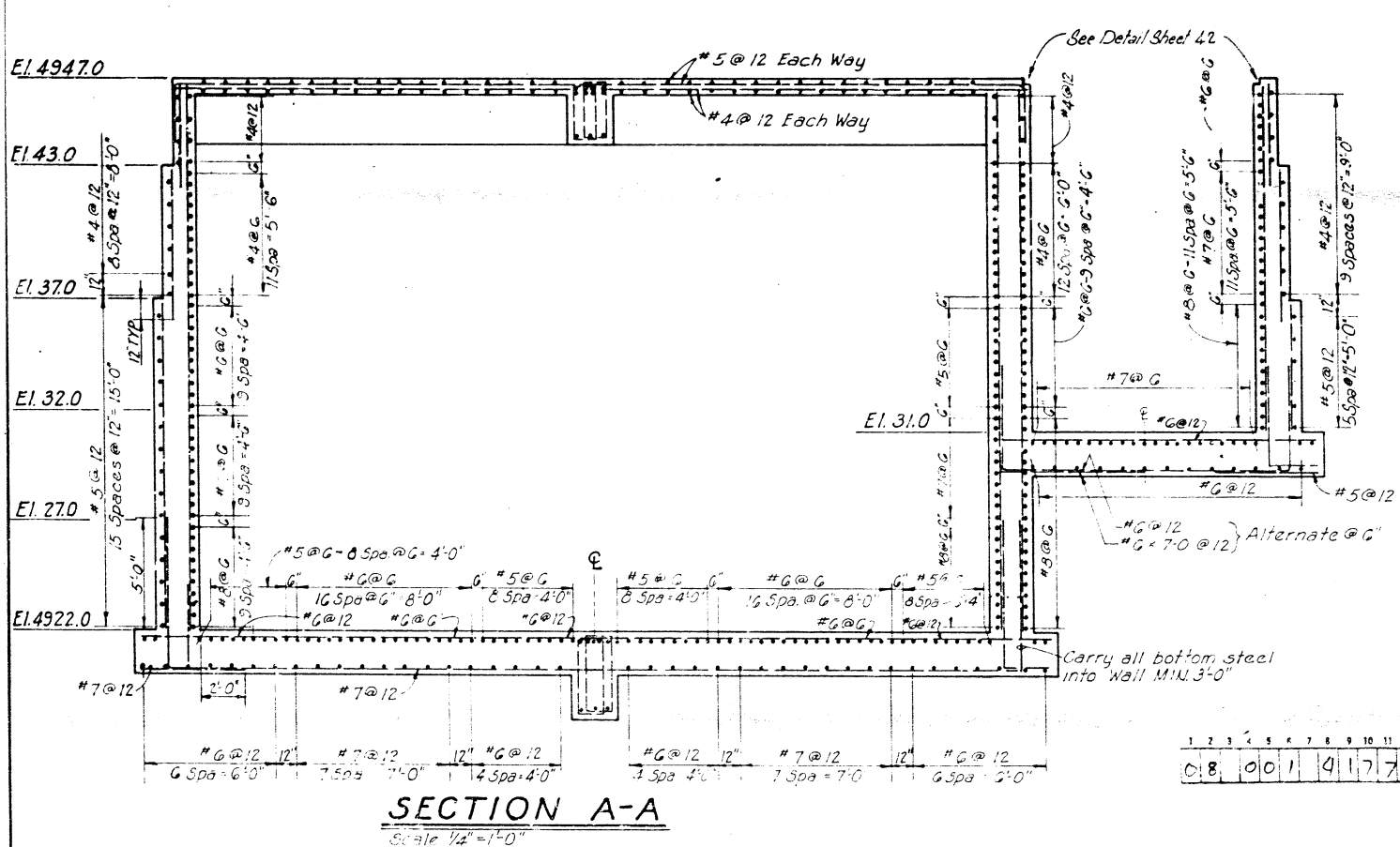
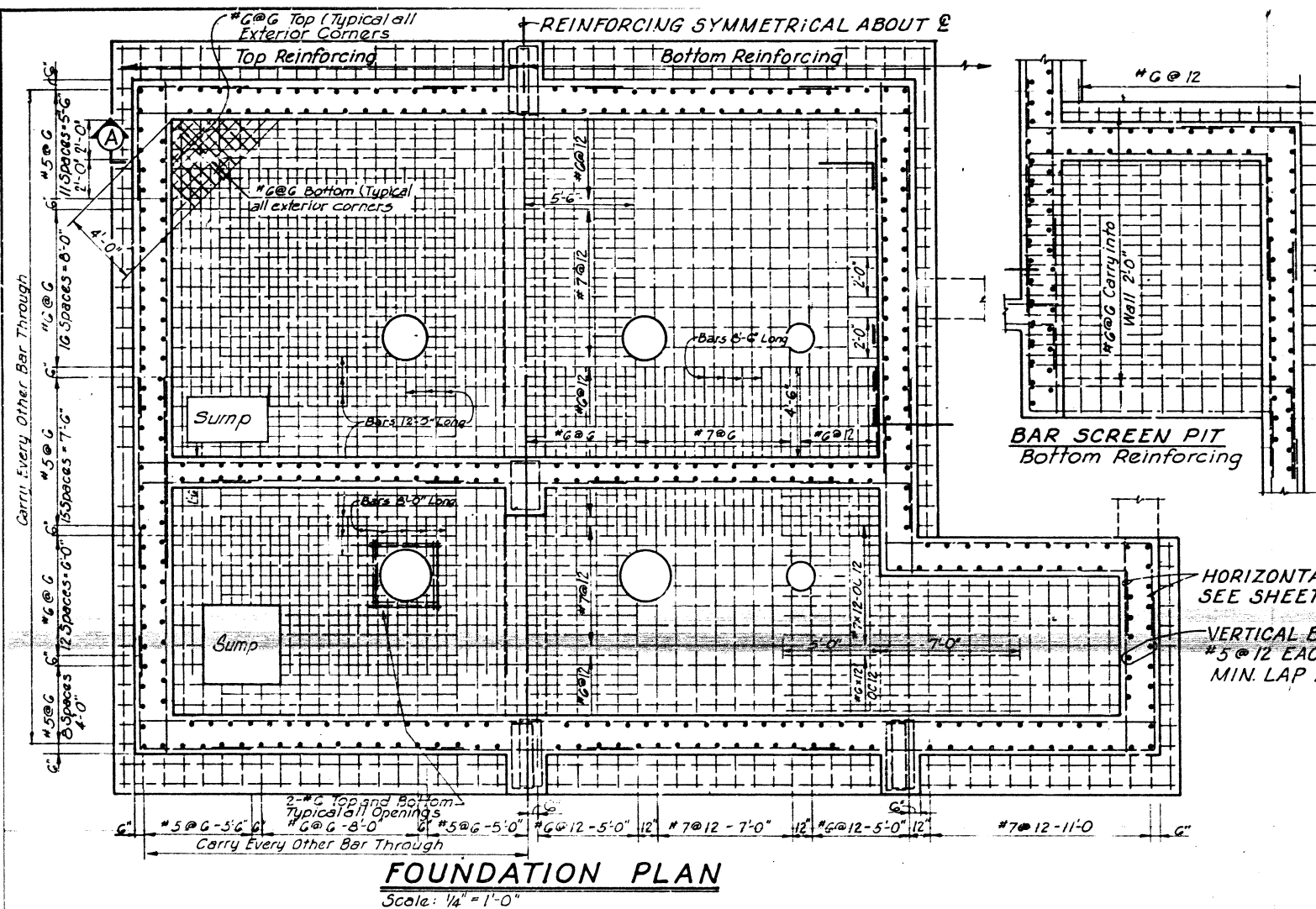


ALBUQUERQUE, NEW MEXICO
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
COMMERCIAL AT BELL PUMP STATION
STRUCTURAL PLAN AND DETAILS

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

ALBUQUERQUE, NEW MEXICO
SCALE 1/4"=1'-0" DATE JUNE 1971 DRAWN: RDM SHEET 40
CHECKED: G.A.J. OF 47.

April 25, 1977



ALBUQUERQUE, NEW MEXICO

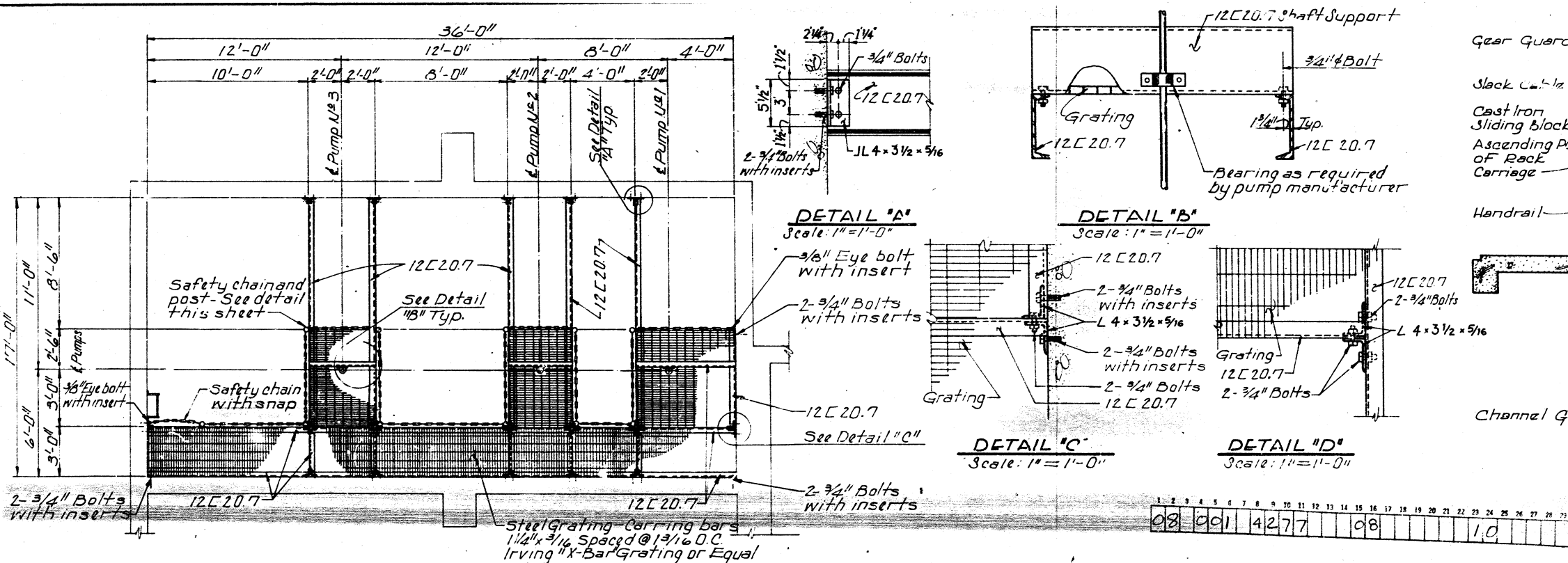
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
COMMERCIAL AT BELL PUMP STATION

STRUCTURAL PLAN AND DETAILS

GORDON HEIKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

ALBUQUERQUE	DATE	DRAWN: J.R.J.	NEW MEXICO
SCALE AS SHOWN	JUNE 1971	CHECKED: G.A.J.	SHEET 41 OF 47

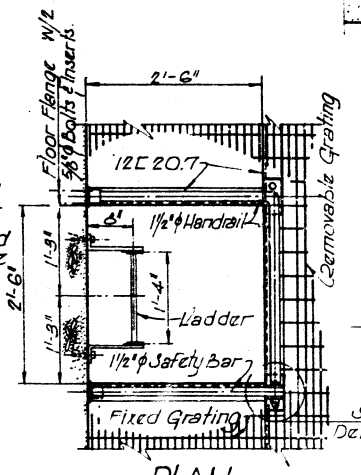
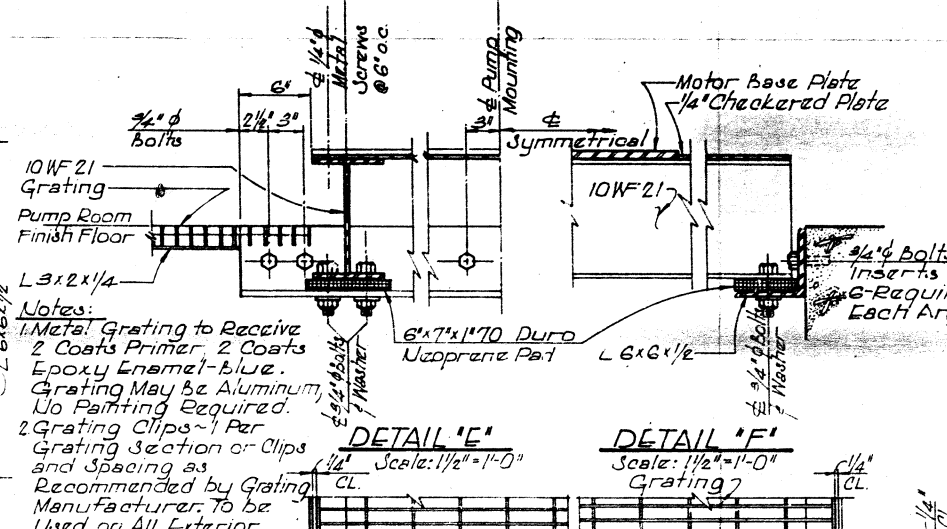
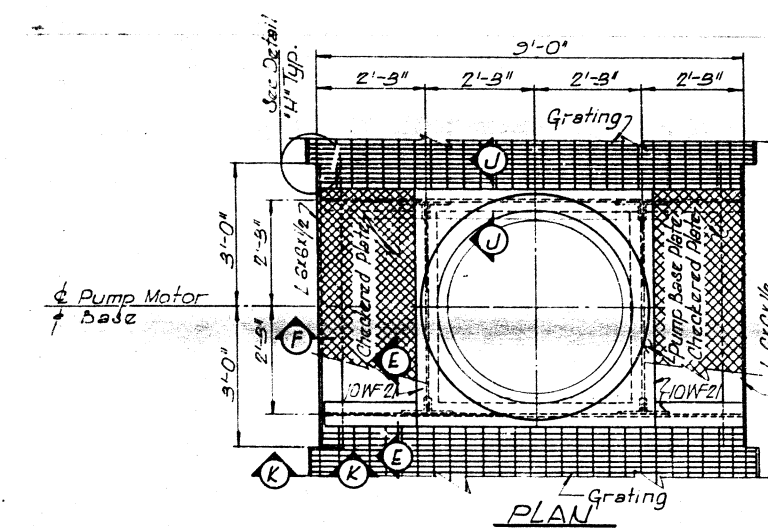
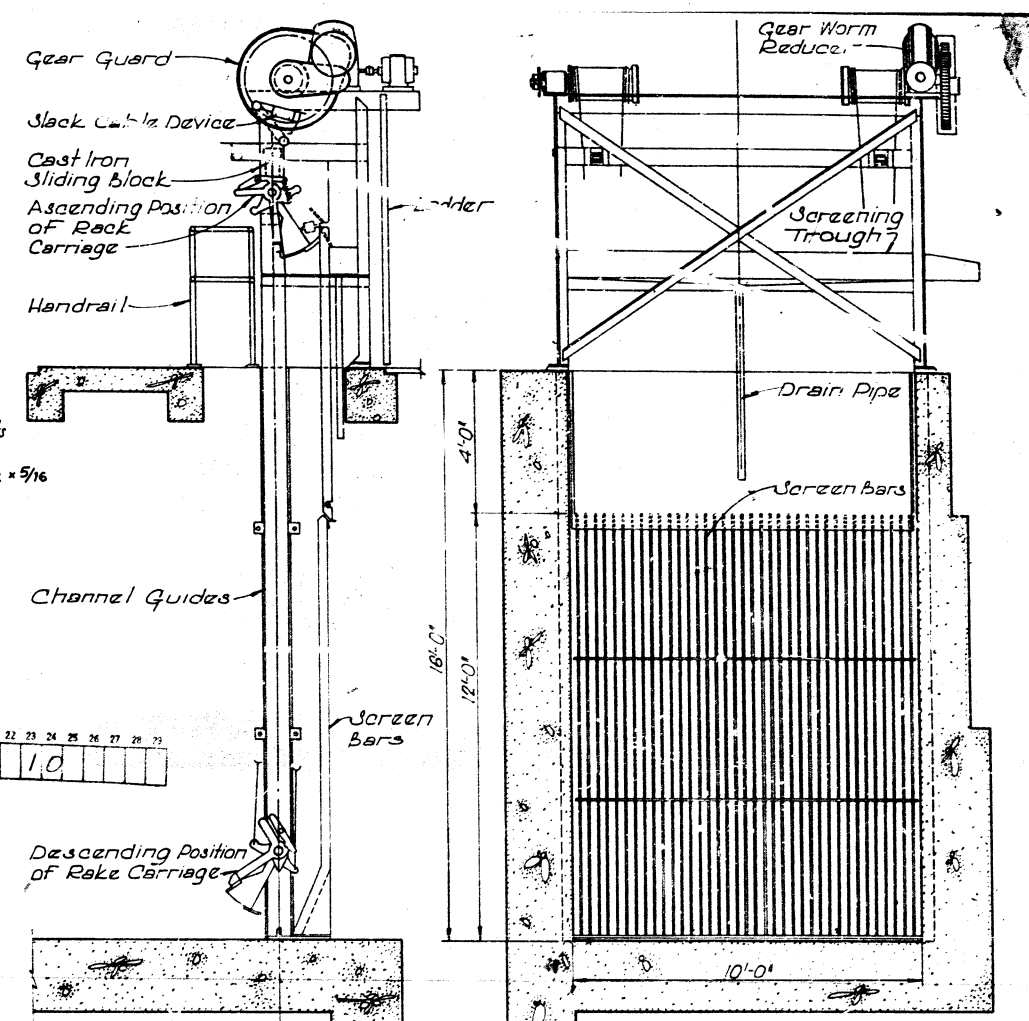
April 25, 1977



NOTE: Grating Clips - 2 each end each section or clips and spacing as recommended by manufacturer. See detail this sheet

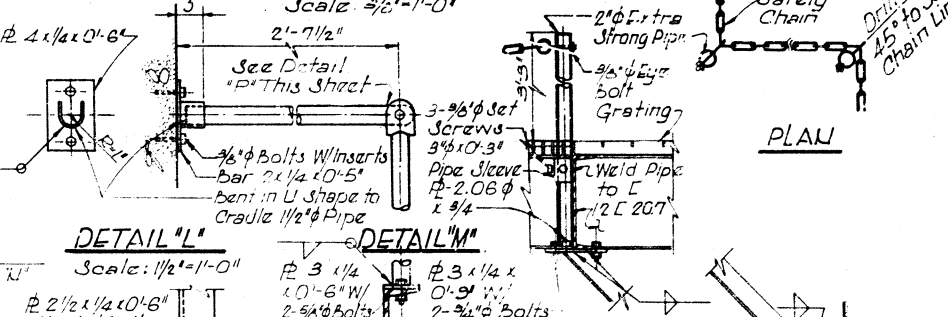
INTERMEDIATE LEVEL GRATING AND FRAMING PLAN AND DETAILS

Scale: As Shown.



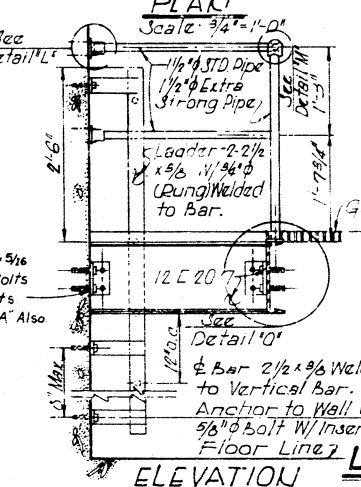
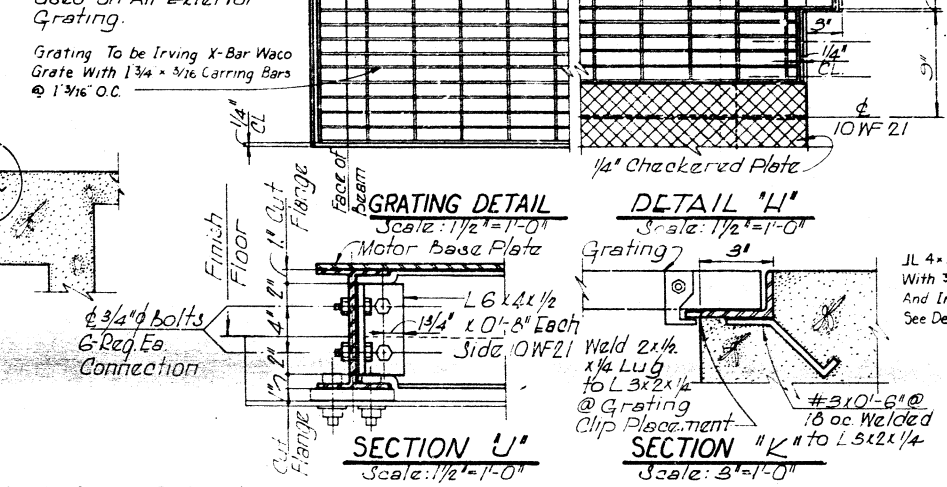
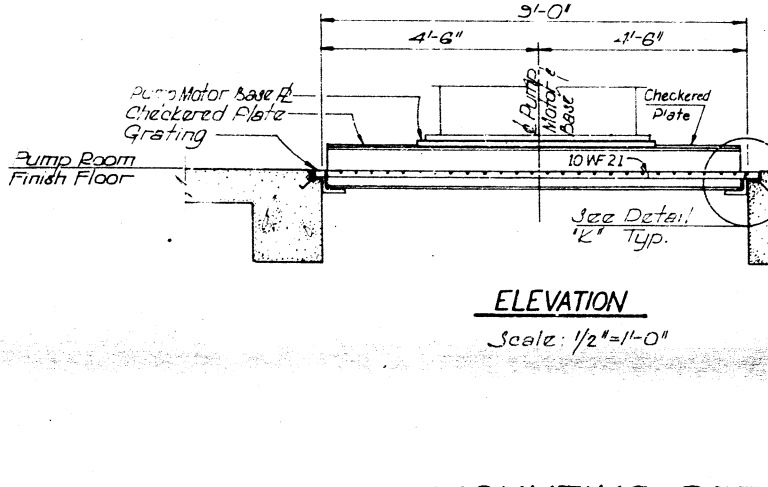
SECTION

BAR SCREEN



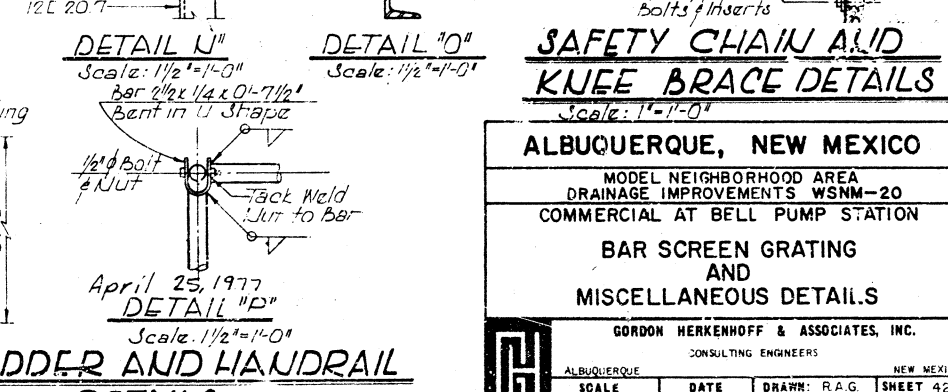
SAFETY CHAIN AND KNEE BRACE DETAILS

Scale: 1" = 1'-0"



SECTION

BAR SCREEN



MOUNTING DETAILS FOR MOTORS

Scale: As Shown

LADDER AND HANDRAIL DETAILS

Scale: As Shown

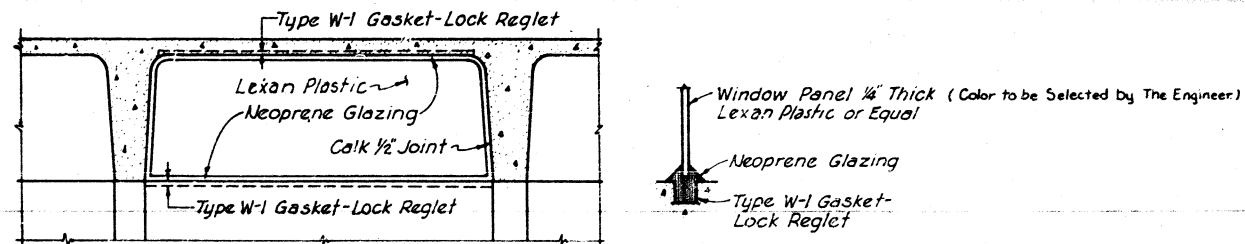
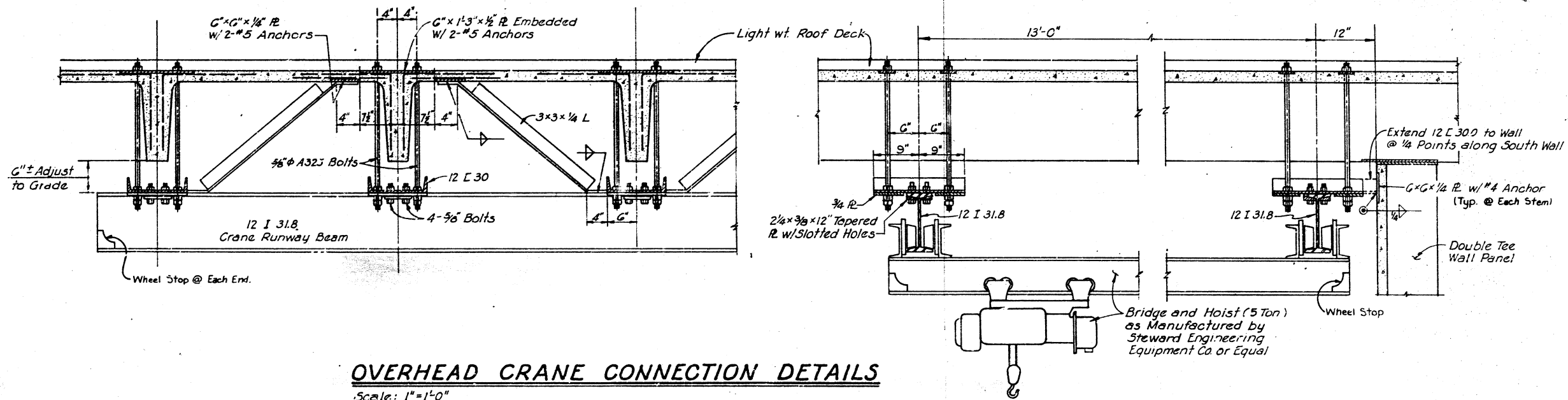
ALBUQUERQUE, NEW MEXICO

MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
COMMERCIAL AT BELL PUMP STATION

**BAR SCREEN GRATING
AND
MISCELLANEOUS DETAILS**

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

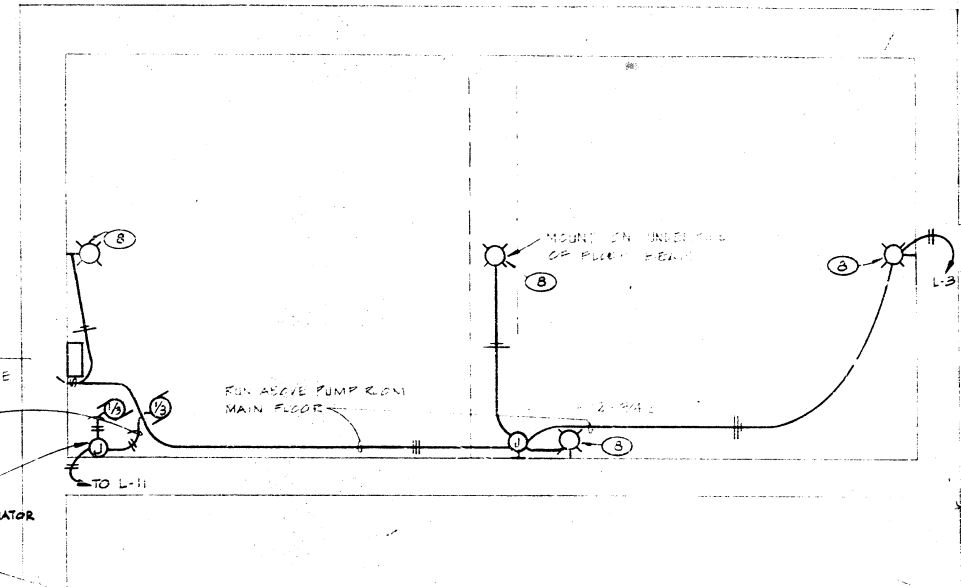
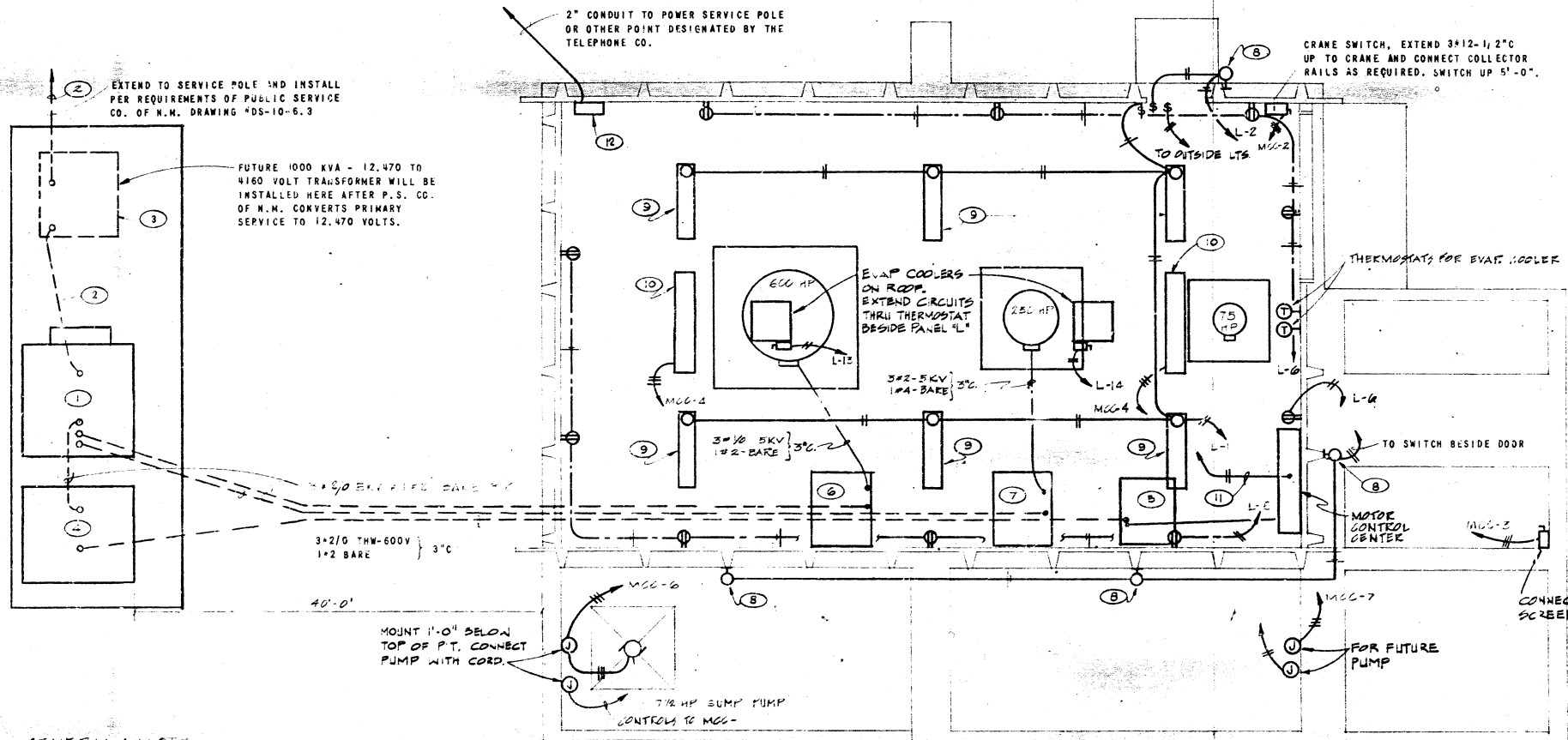
ALBUQUERQUE SCALE AS SHOWN DATE JUNE 1971 DRAWN: R.A.G. CHECKED: G.A.J. SHEET 42 OF 47



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ALBUQUERQUE, NEW MEXICO			
MODEL NEIGHBORHOOD AREA			
DRAINAGE IMPROVEMENTS WSNM-20			
COMMERCIAL AT BELL PUMP STATION			
CRANE SUPPORT DETAILS			
GORDON HERKENHOFF & ASSOCIATES, INC.			
CONSULTING ENGINEERS			
ALBUQUERQUE	DATE	DRAWN: JRJ	NEW MEXICO
SCALE	JUNE 1971	CHECKED: GAJ	SHEET 43
1" = 1'-0"			OF 47

April 25, 1977



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

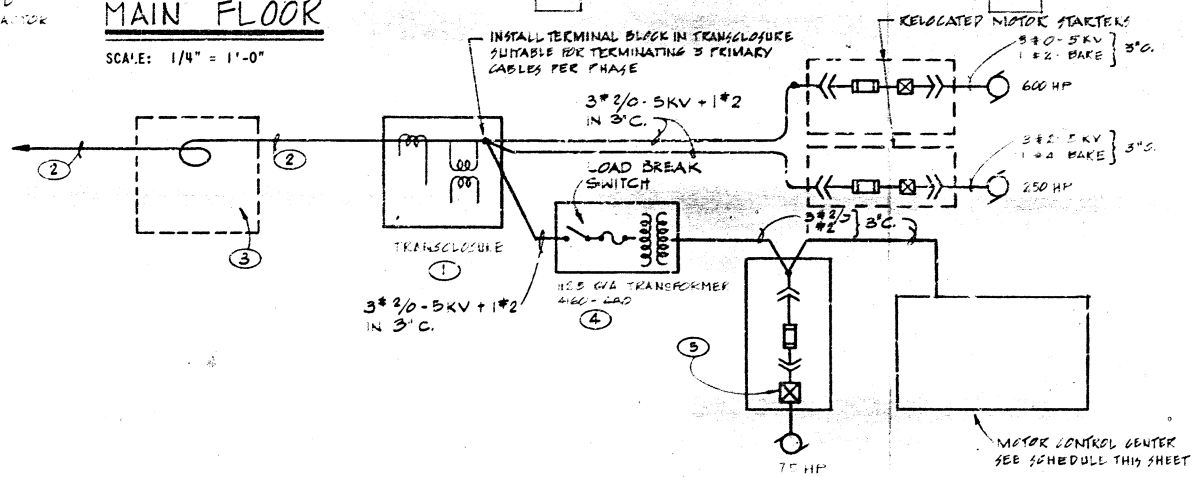
CONTROL NOTES

- SEE SHEET 10. THIS STATION WILL REQUIRE VERTICAL CONTROLS EXCEPT TELEMTRY. EQUIPMENT WILL BE NEW. PROVIDE ALL EQUIPMENT, CONNECTIONS, CONDUIT AND WIRE REQUIRED AND CO-ORDINATE WITH FINAL EQUIPMENT FURNISHED.

GENERAL NOTES

- DIMENSIONS ARE BASED ON PUBLIC SERVICE CO. OF N.M. DRAWING #DS-10-6.3. ALL DIMENSIONS AND CONDUIT STUD UPS SHALL BE VERIFIED BY CONTRACTOR BEFORE PAD IS POURED.
- ALL CONDUCTOR SIZES SHOWN ARE FOR COTTER WIRE.

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



SINGLE LINE DIAGRAM
NO SCALE

MOTOR CONTROL CENTER SCHEDULE														
MCC UNIT NO.	EQUIPMENT	H.P.	VOLTAGE	POLES	SWITCH SIZE	FUSIBLE SIZE	NEMA SIZE	TYPE	SELECTOR SWITCH		COIL VOLTAGE	PILOTS LAMPS		REMARKS
									OFF AUTO	HOA		RED	GRN	
1	MAIN SWITCH	-	480	3	200	150	-	-	-	-	-	-	-	-
2	CRANE FEEDER	-	480	3	30	9	-	-	-	-	-	-	-	-
3	TRASH RACK FEEDER	-	480	3	30	9	-	-	-	-	-	-	-	-
4	HEATERS	-	480	3	30	20	-	-	-	-	-	-	-	-
5	TRANSFORMER	-	480	2	30	20	-	-	-	-	-	-	-	FEEDER TO SKVA TRANSFORMER
6	SUMP PUMP	7 1/2	480	3	30	15	1 FVNR	●	-	-	120	●	-	-
7	SUMP PUMP	7 1/2	480	3	30	15	1 FVNF	●	-	-	120	●	-	(FUTURE)
8	SPARE	-	480	3	30	-	1 FVNR	●	-	-	120	●	-	-
9	SPARE	-	480	3	30	-	-	-	-	-	-	-	-	SWITCH ONLY
10	5 KVA - 480 TO 120V/240V	-	-	-	-	-	-	-	-	-	-	-	-	DRY TYPE TRANSFORMER
11	PANEL "L" - 120/240V	-	-	-	-	-	-	-	-	-	-	-	-	120/240VOLT PANEL "L"

MOTOR CONTROL CENTER NOTES 1 THRU 5 ON SHEET 10 APPLY TO THIS MCC ALSO.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
08		00	01			44	77							08								02							

KEYED NOTES

- INCOMING METERING, 4160-30 Y. INSTALL TRANSCLUSURE PER PUBLIC SERVICE CO. OF NEW MEXICO DRAWING #DS-19-79. AND METERING ENCLOSURE PER DRAWING #DS-19-23.0.
- INCOMING LINE 3-3/0 15 KV SHIELDED CONDUCTOR + 1#2 BARE IN 4" GALVANIZED IRON CONDUIT. INSTALL PER SPECIFICATIONS & REQUIREMENTS OF THE PUBLIC SERVICE CO. OF N.M.
- INSTALL TRANSCLUSURE, GENERAL ELECTRIC OR EQUAL. MIN. 3'x3'x3' OVER CABLE COIL.
- PAD MOUNTED COMPAD, 112.5 KVA-30, 12470Δ -480/277 Y TRANSFORMER
- VARIABLE SPEED, 480 VOLT MOTOR CONTROLLER.
- 4160 VOLT REDUCED VOLTAGE CONTROLLER RELOCATED FROM NORTH BROADWAY STATION.
- 4160 VOLT REDUCED VOLTAGE CONTROLLER RELOCATED FROM NORTH BROADWAY STATION.
- INSTALL CROUSE HINDS #47797 FIXTURE WITH 500W T3QCL LAMP.
- INSTALL 4'-0" TWO LAMP HI-OUTPUT INDUSTRIAL SURFACE MOUNTED FIXTURES.
- CHRONALOX RDB46 52 KW, 480V, 30, 4 WIRE COMPLETE WITH CONTACTOR AND THERMISTAT.
- EXTEND CIRCUIT TO BUBBLER CONTROLLER AND CONNECT.
- FURNISH AND INSTALL 18"x24"x4" TELEPHONE CABINET. EXTEND 2" TO SERVICE POINT DESIGNATED BY TELEPHONE CO. EXTEND 2" CONDUITS AND CONDUCTORS REQUIRED TO TELEMTRY AND CONTROL PANELS.

April 25, 1977

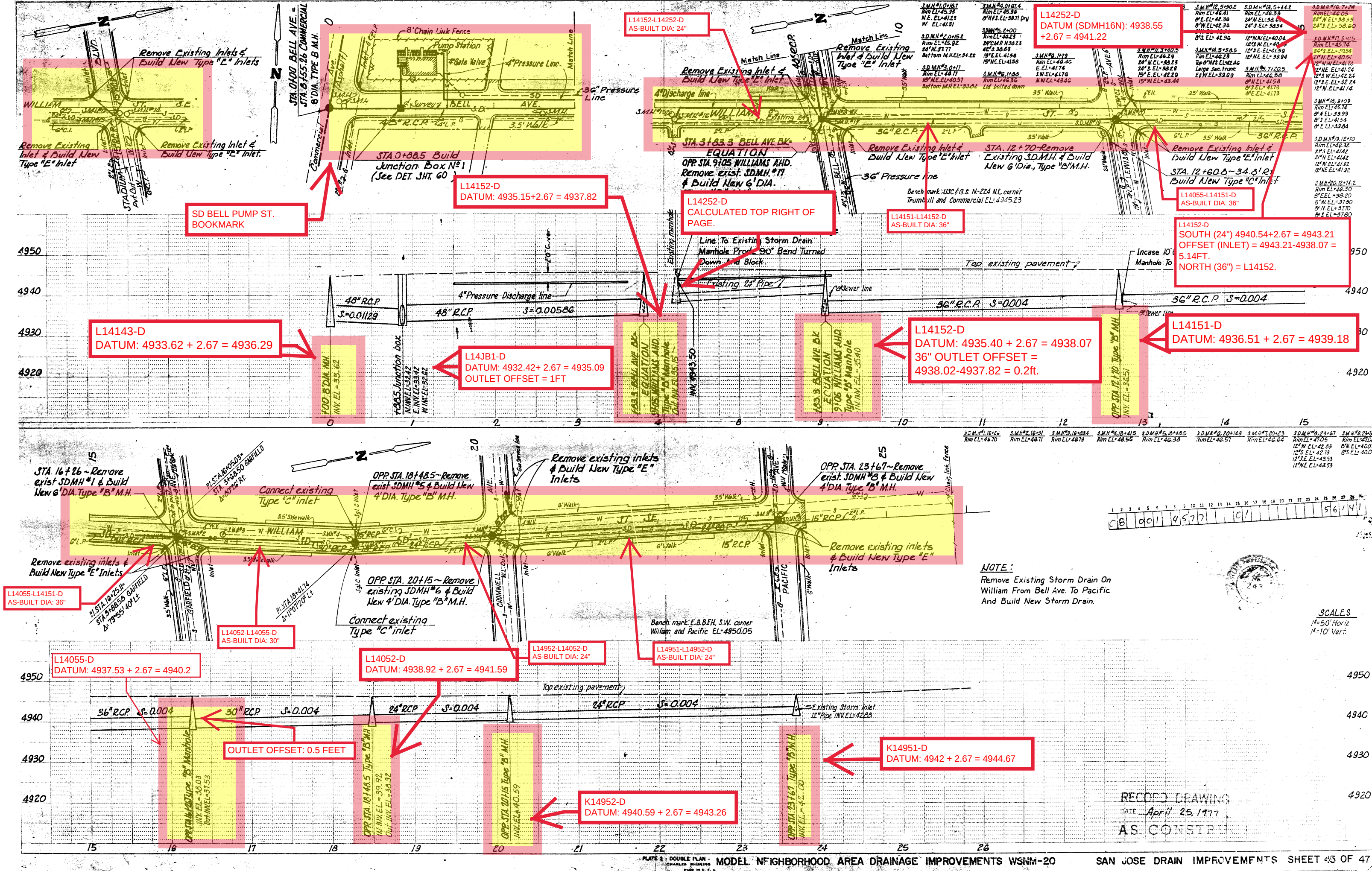
ALBUQUERQUE, NEW MEXICO

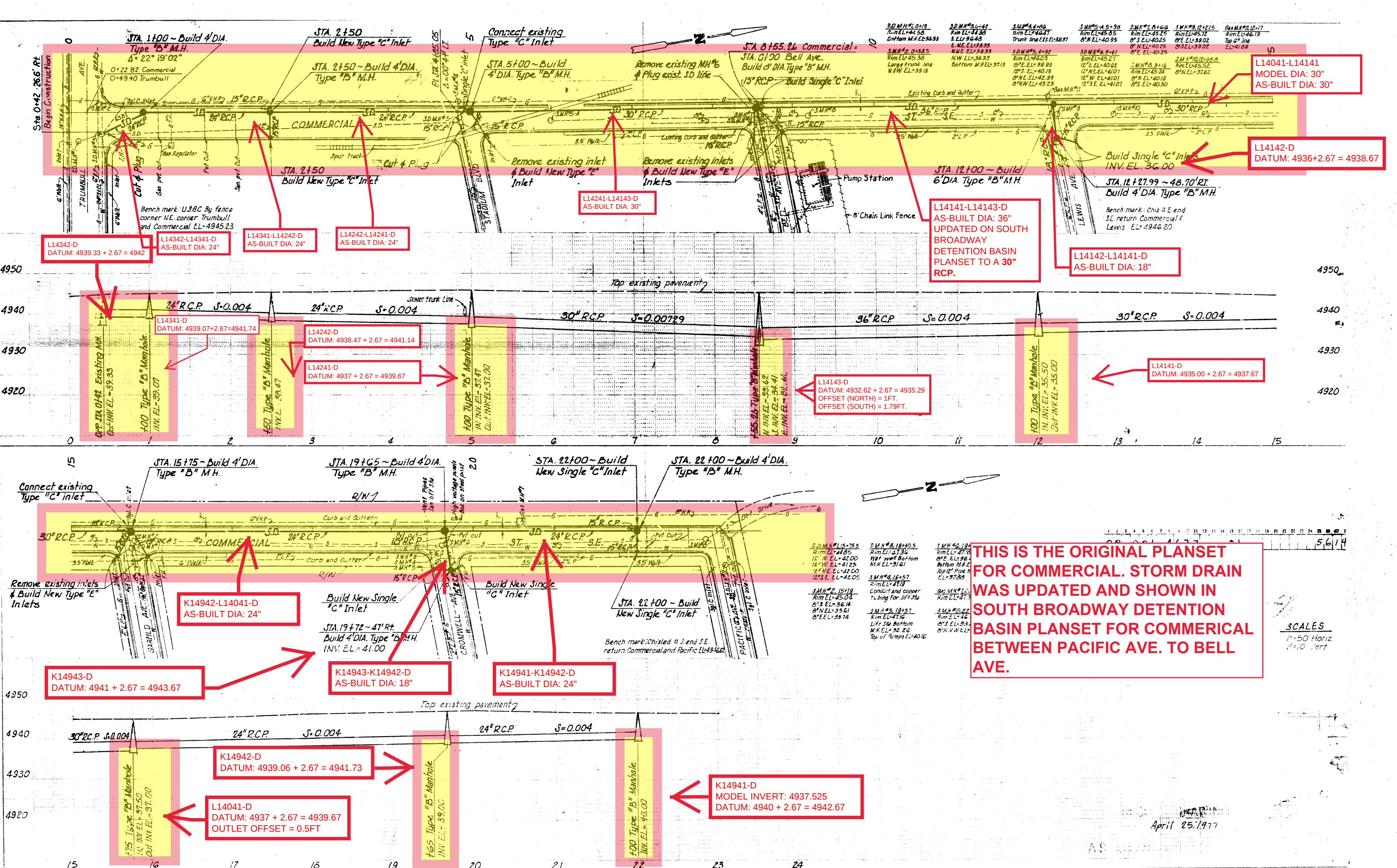
MODEL NEIGHBORHOOD AREA
DRAINAGE IMPROVEMENTS WSNM-20
COMMERCIAL AT BELL PUMP STATION

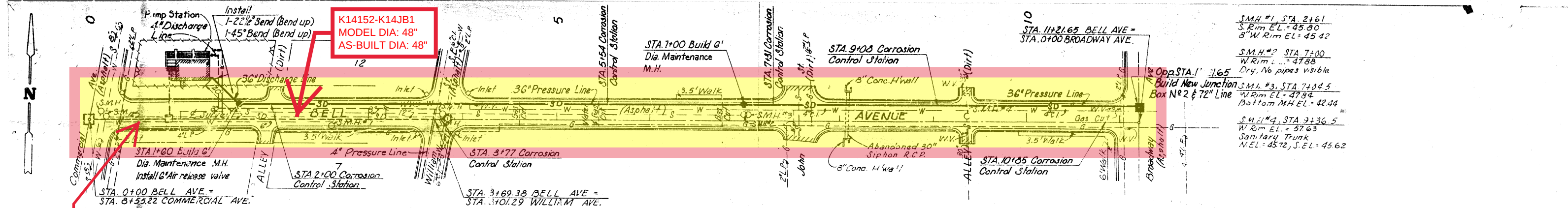
ELECTRICAL PLAN

GORDON HERKENHOFF & ASSOCIATES, INC.
CONSULTING ENGINEERS

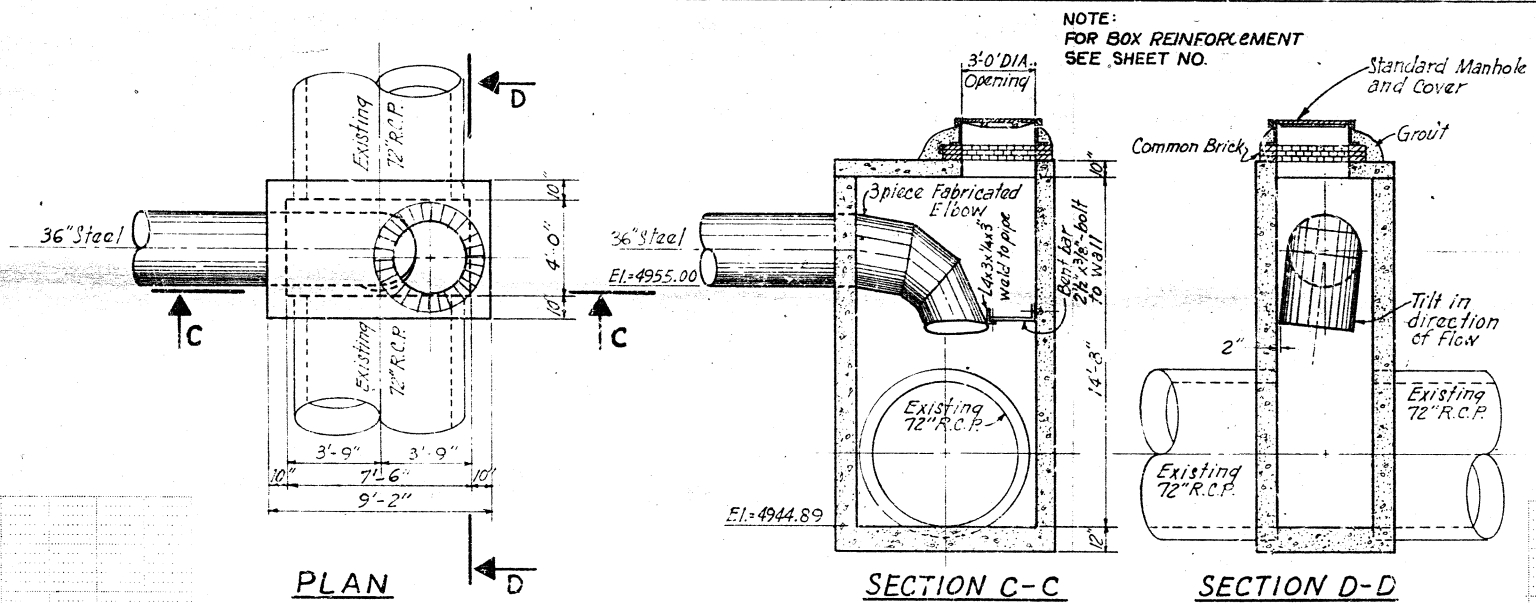
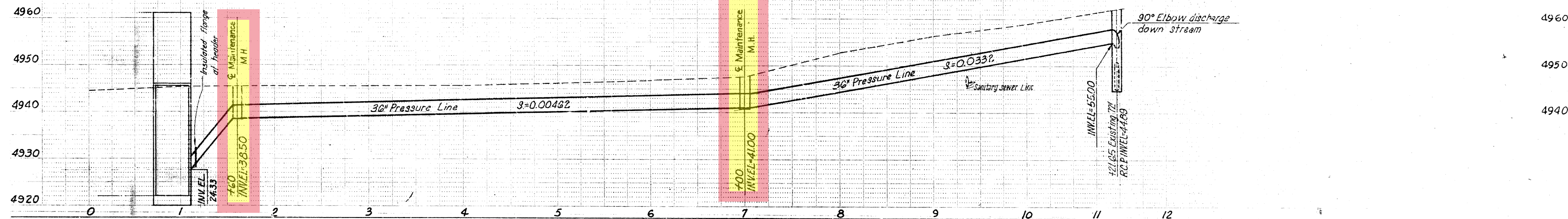
ALBUQUERQUE	DATE	DRAWN	SHEET
SCALE AS SHOWN	SEPT. 1971	CHECKED: G.A.J.	44 OF 47







K14143-K14JB1
MODEL DIA: 48"
AS-BUILT DIA: 48"



JUNCTION BOX NO. 2
Scale: 1/4" = 1'-0"

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