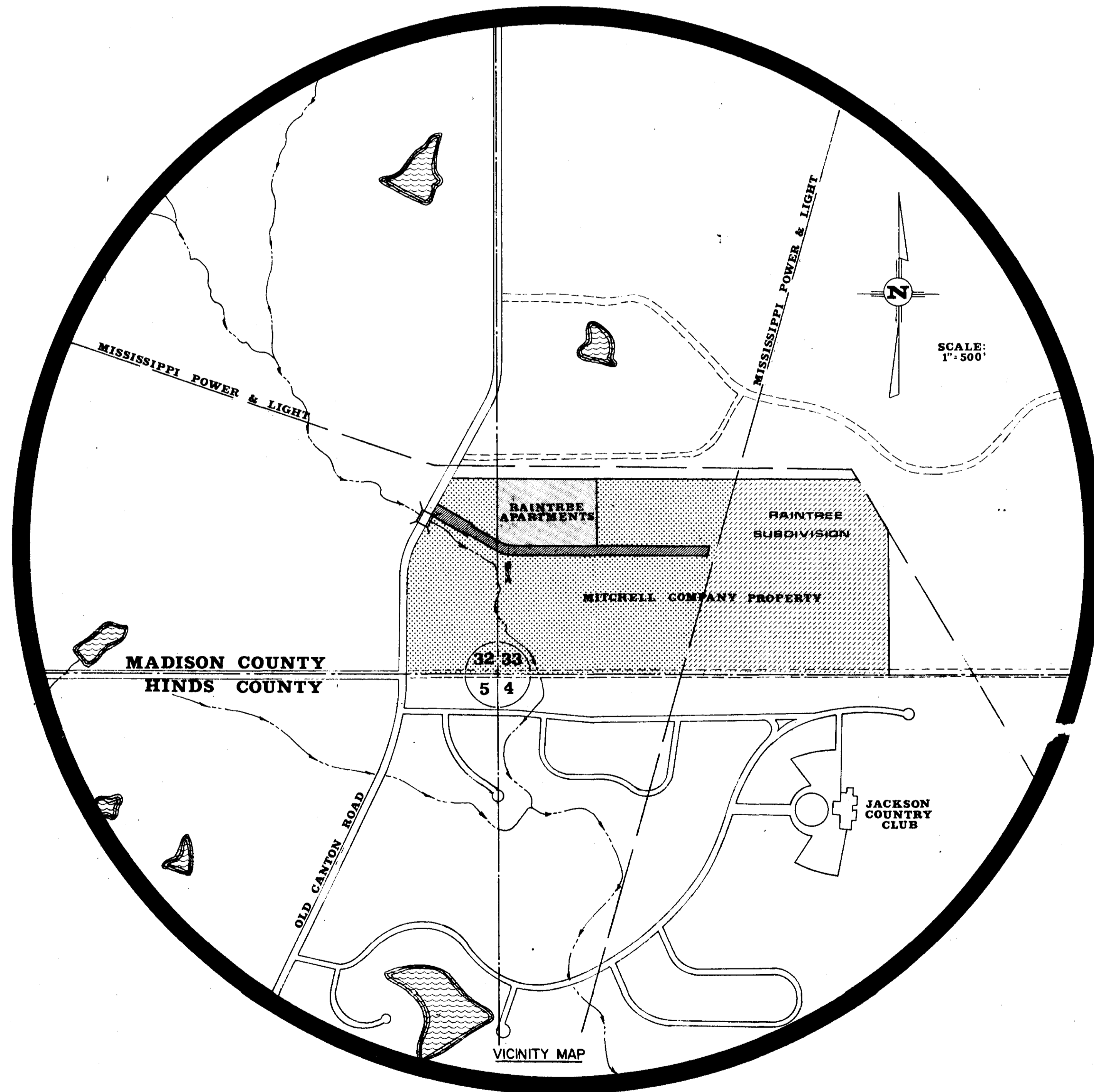


~~RAINTREE~~ SUBDIVISION

COUNTR CLUB WOODS

THE MITCHELL COMPANY

OWNER AND DEVELOPER

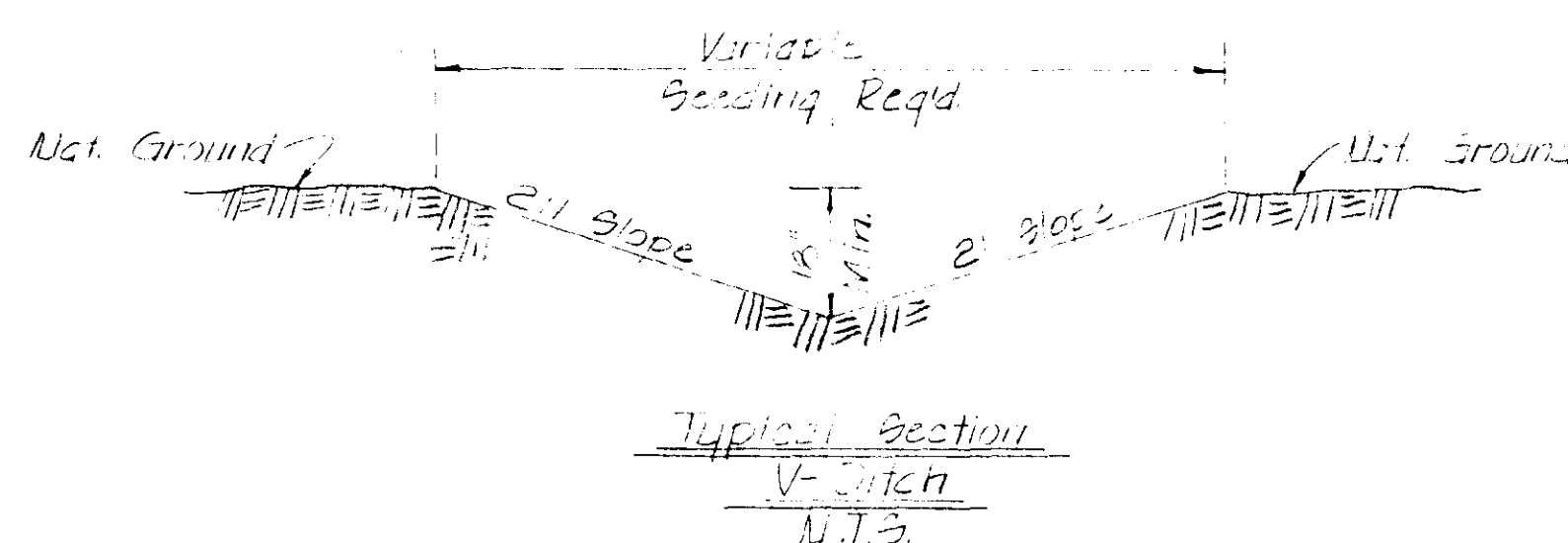


INDEX

SHEET	DESCRIPTION
1	COVER SHEET
2	LOT LAYOUT AND DRAINAGE
3	WATER AND SEWER LAYOUT
4-12	PLAN & PROFILE SHEETS
13	PUMP STATION PLAN AND DETAIL SHEET
14	CONSTRUCTION DETAILS FOR SEWER APPURTENANCES
15	CONSTRUCTION DETAILS FOR WATER DISTRIBUTION SYSTEM
16	CONSTRUCTION DETAILS FOR STANDARD STORM SEWER APPURTENANCES

LESTER ENGINEERING CO.
JACKSON, MISS.

PWP-00308



CENTERLINE CURVE DATA

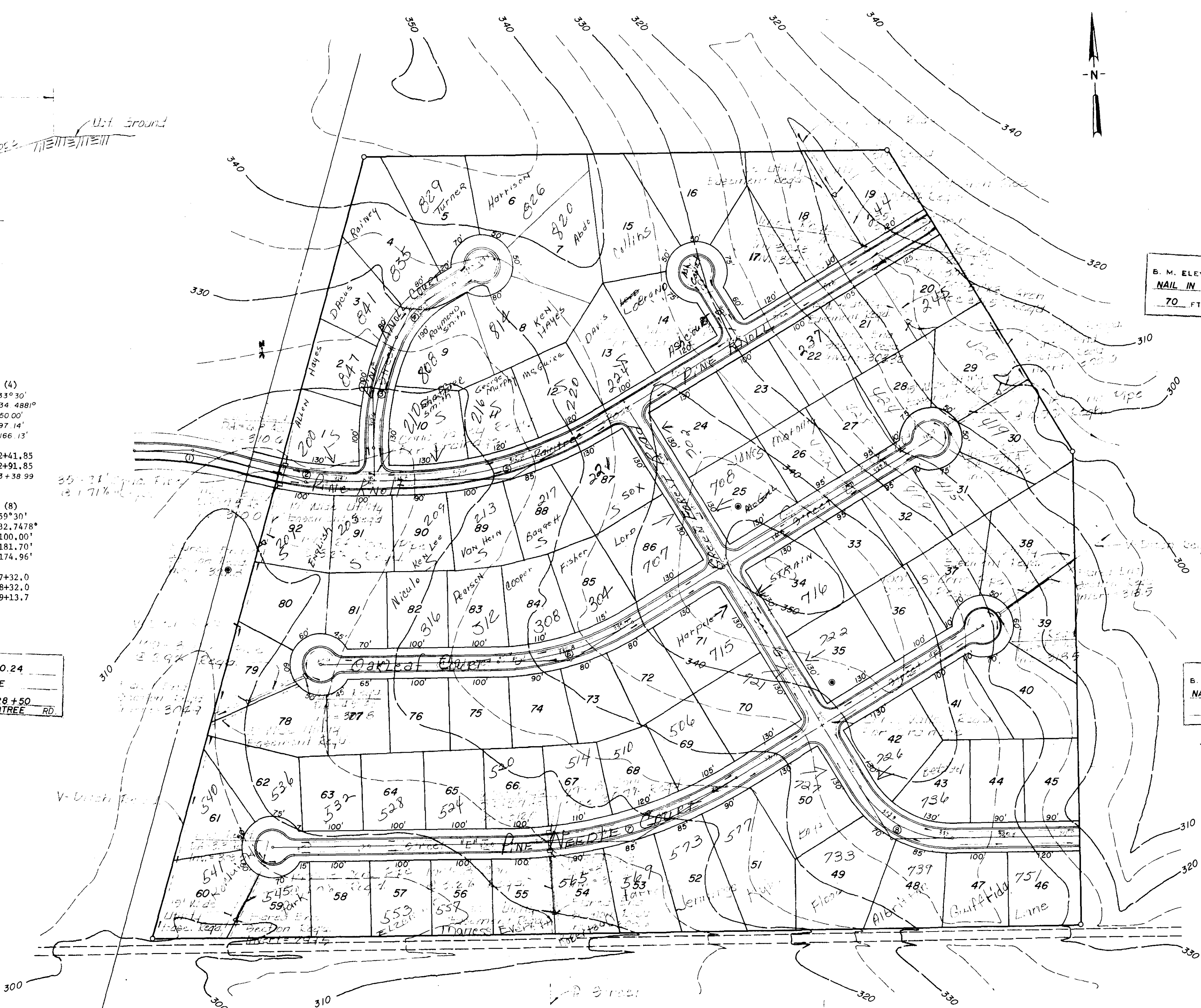
(1)	(2)	(3)	(4)
Δ = 16°32' Rt.	Δ = 16°32' Lt.	Δ = 25°30'	Δ = 33°30'
D = 9.4855'	D = 9.4855'	D = 13.6471'	D = 34.4889'
T = 87.76'	T = 87.76'	T = 95.50'	T = 50.00'
L = 174.30'	L = 174.30'	L = 186.85'	L = 97.14'
R = 604.03'	R = 604.03'	R = 419.84'	R = 166.13'
PC = 26+59.07	PT = 28+33.37	PC = 0+55.0	PCC = 2+41.85
PI = 27+46.83	PI = 29+21.13	PI = 1+50.0	PI = 2+91.85
PT = 28+33.37	PT = 30+07.67	PCC = 2+41.85	PT = 3+38.99

(5)	(6)	(7)	(8)
Δ = 30°30'	Δ = 30°28'	Δ = 30°28'	Δ = 59°30'
D = 8.6781'	D = 13.0023'	D = 7.8014'	D = 32.7478'
T = 180.00'	T = 120.00'	T = 200.00'	T = 100.00'
L = 351.46'	L = 234.32'	L = 390.53'	L = 181.70'
R = 660.23'	R = 440.66'	R = 734.43'	R = 174.96'
PC = 31+04.68	PC = 1+78	PC = 1+66.10	PC = 7+32.0
PI = 32+84.68	PI = 2+98	PI = 3+66.10	PI = 8+32.0
PT = 34+56.14	PT = 4+12.32	PT = 5+56.63	PT = 9+13.7

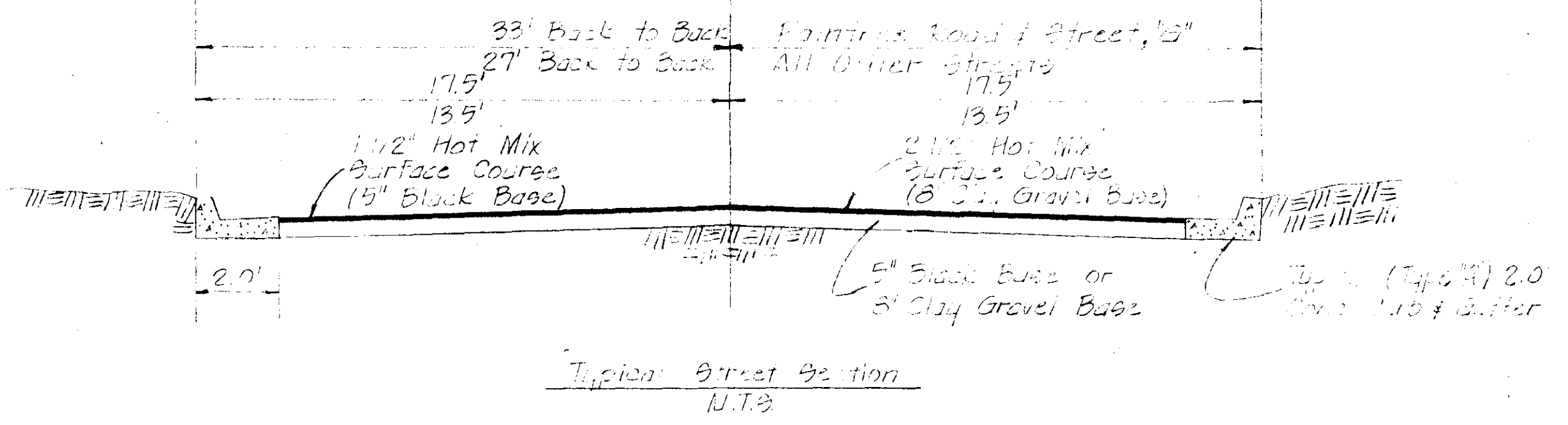
B. M. ELEVATION 310.24
 NAIL IN POWER POLE
 175 FT. RT. STA. 28+50
 RAINTREE RD.

B. M. ELEVATION 350.14
 NAIL IN SIDE 10" ELM
 70 FT. LT. STA. 0+70
 STREET "C"

B. M. ELEVATION 346.08
 NAIL IN ROOT 24" OAK
 75 FT. LT. STA. 0+50
 STREET "F"



- NOTES**
1. LOT DIMENSIONS SUBJECT TO MINOR CORRECTIONS.
 2. STORM SEWER BASED ON TALBOTS FORMULA USING 4" RAINFALL AND A RUNOFF COEFFICIENT OF 1.0.
 3. ALL DITCHES TO HAVE GROWING STAND OF BERBERIS.
 4. FLARED END SECTION REQ'D ON ALL DRAIN PIPE.
 5. ALL INLETS TO BE 5' STANDARD OR THE APPLICABLE STANDARD AS DIRECTED BY THE ENGINEER.
 6. ALL RADII ON CURB & GUTTER (a) STREET INTERSECTIONS TO BE 20'.
 7. FOR SANITARY SEWER AND DRAINAGE INSTALLATION DETAILS -- SEE SHEET NO. 3.



DESIGNED:	SCALE: 1"=100'	LESTER ENGINEERING COMPANY CONSULTING ENGINEERS JACKSON, MISSISSIPPI			
DRAWN: C. SMITH	DRWG. NO. 73-601				
APPROVED:					
DATE: 6-10-74		RAINTREE SUBDIVISION LOT LAYOUT & DRAINAGE			
REV. NO.	DATE		NATURE OF REVISION		
		BY	CHKD.	APPD.	SHEET NO. 2

CENTERLINE CURVE DATA

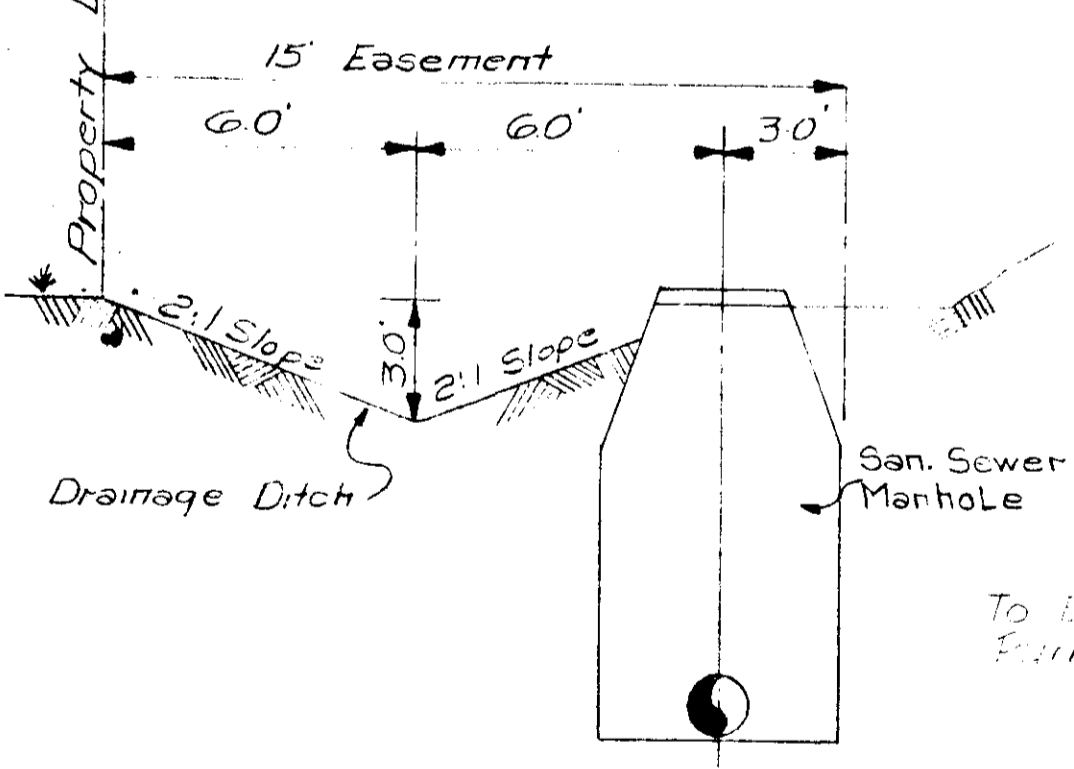
(1)	(2)	(3)	(4)
Δ = 16°32' Rt.	Δ = 16°32' Lt.	Δ = 25°30'	Δ = 33°30'
D = 9.4855'	D = 9.4855'	D = 13.6471'	D = 34.4886'
T = 87.76'	T = 87.76'	T = 95.50'	T = 50.00'
L = 174.30'	L = 174.30'	L = 186.85'	L = 97.14'
R = 604.03'	R = 604.03'	R = 419.84'	R = 166.13'
PC = 26+59.07	PRC = 28+33.37	PC = 0+55.0	PCC = 2+41.85
PI = 27+46.83	PI = 29+21.13	PI = 1+50.0	PI = 2+91.85
PT = 28+33.37	PT = 30+07.67	PCC = 2+41.85	PT = 3+38.99

(5)	(6)	(7)	(8)
Δ = 30°30'	Δ = 30°28'	Δ = 30°28'	Δ = 59°30'
D = 8.6781'	D = 13.0023'	D = 7.8014'	D = 32.7478'
T = 180.00'	T = 120.00'	T = 200.00'	T = 100.00'
L = 351.46'	L = 234.32'	L = 390.53'	L = 181.70'
R = 660.23'	R = 440.66'	R = 734.43'	R = 174.96'
PC = 31+04.68	PC = 1+78	PC = 1+66.10	PC = 7+32.0
PI = 32+84.68	PI = 2+98	PI = 3+66.10	PI = 8+32.0
PT = 34+56.14	PT = 4+12.32	PT = 5+56.63	PT = 9+13.7

B. M. ELEVATION 310.24
 NAIL IN POWER POLE
 175 FT. RT. STA. 28+50
 RAIN TREE RD.

B. M. ELEVATION 350.14
 NAIL IN SIDE 10" ELM
 70 FT. LT. STA. 0+70
 STREET "C"

B. M. ELEVATION 346.08
 NAIL IN ROOT 24" OAK
 75 FT. LT. STA. 0+50
 STREET "F"

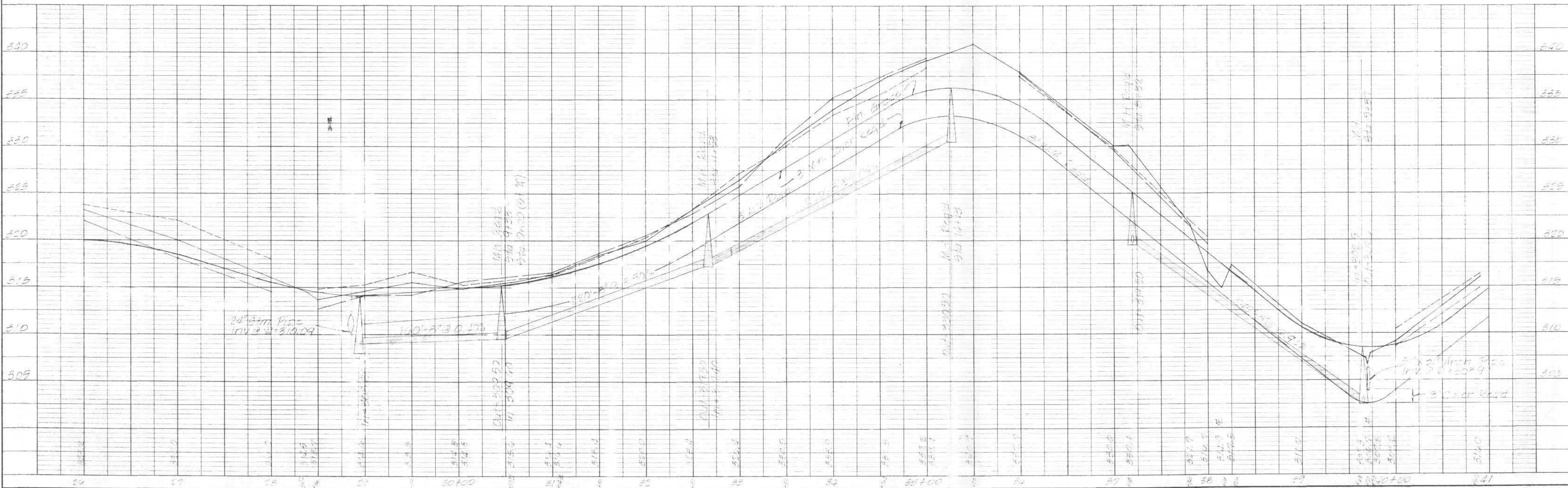
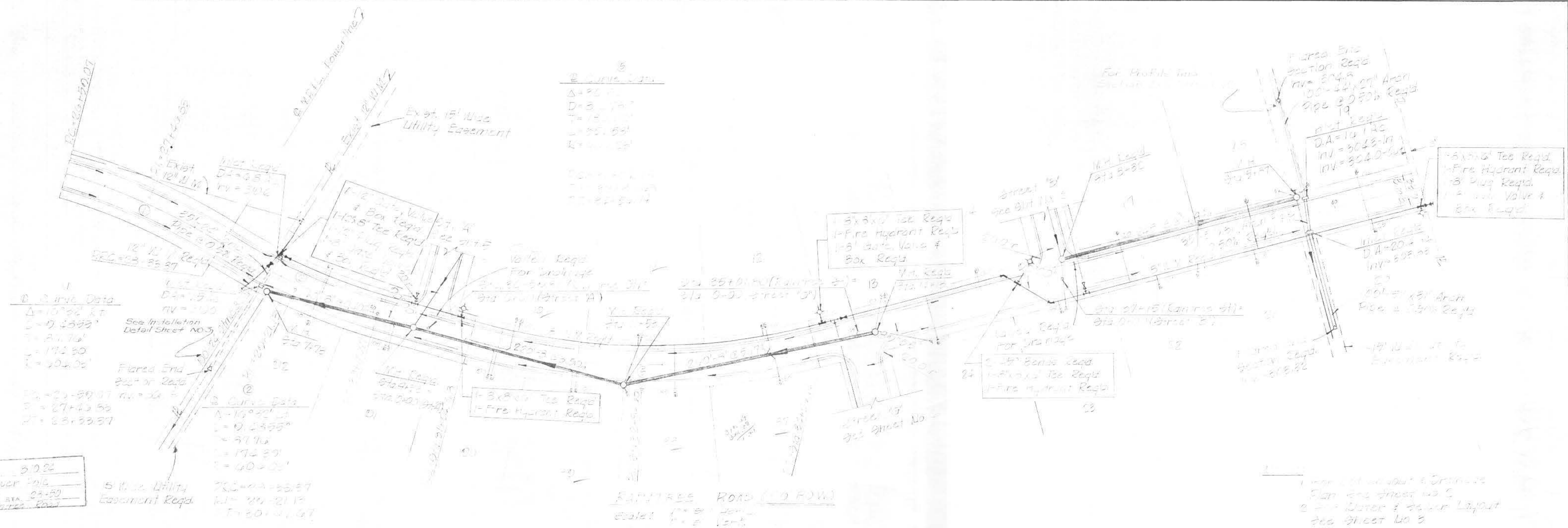
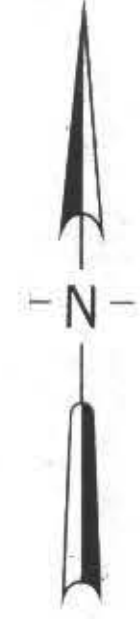


- NOTES**
1. Water and sewer construction to be in accordance with City of Jackson standard specifications.
 2. For water distribution system construction details, see sheet.
 3. For sanitary sewer system construction details, see sheet.
 4. Water and sewer mains are to be installed at least ten feet apart horizontally. Whenever a sewer main or service line crosses above a water main or within eighteen inches below a water main, the sewer main or service line must be cast iron for a distance of ten feet on either side of the water main.

DESIGNED:		SCALE: 1"=100'		LESTER ENGINEERING COMPANY CONSULTING ENGINEERS JACKSON, MISSISSIPPI	
DRAWN: C. SMITH		DRWG. NO. 73-601			
APPROVED:				RAINTREE SUBDIVISION WATER & SEWER LAYOUT	
DATE: 6-10-74					
REV. NO.	DATE	NATURE OF REVISION	BY	CHKD.	APPD.

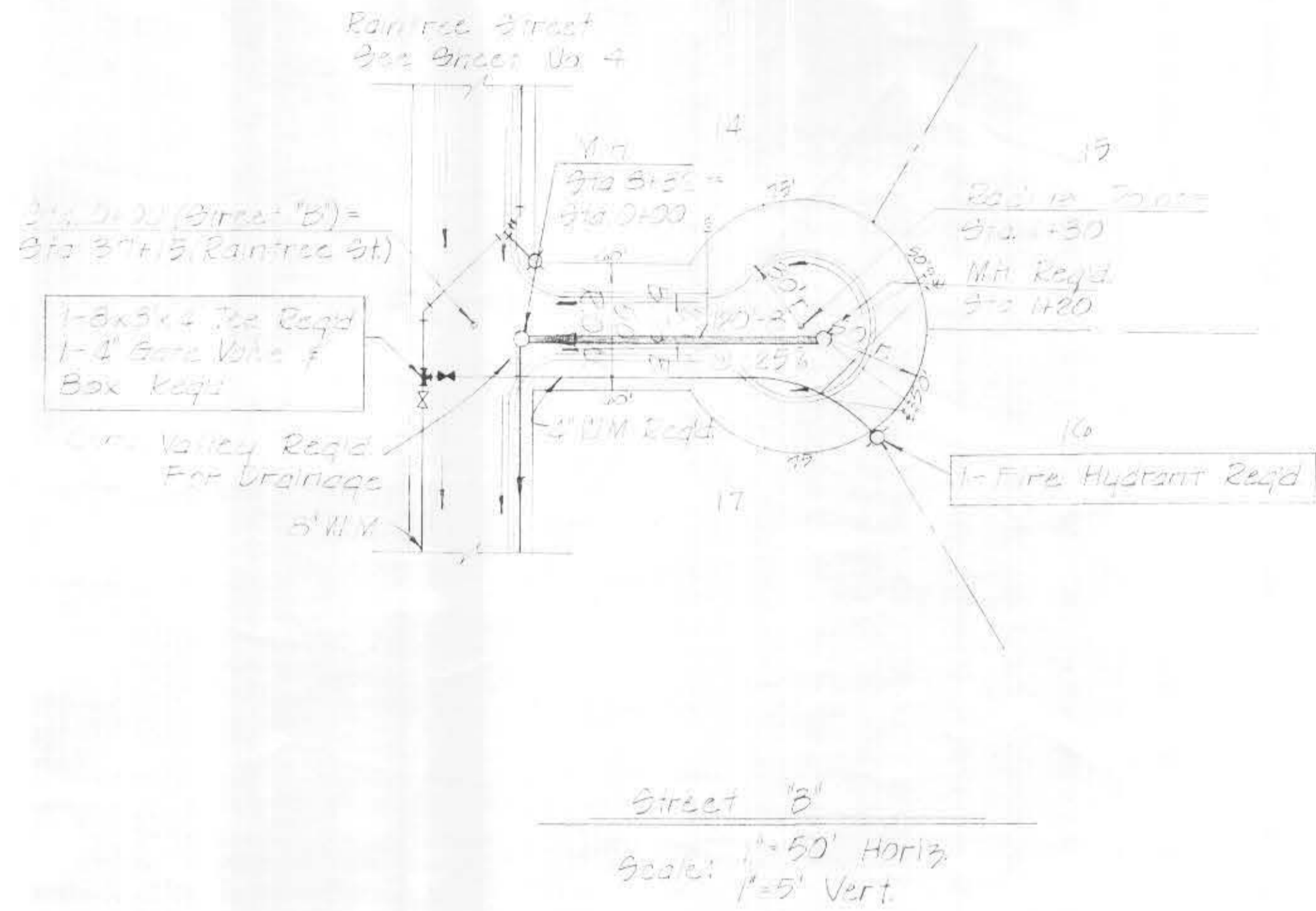
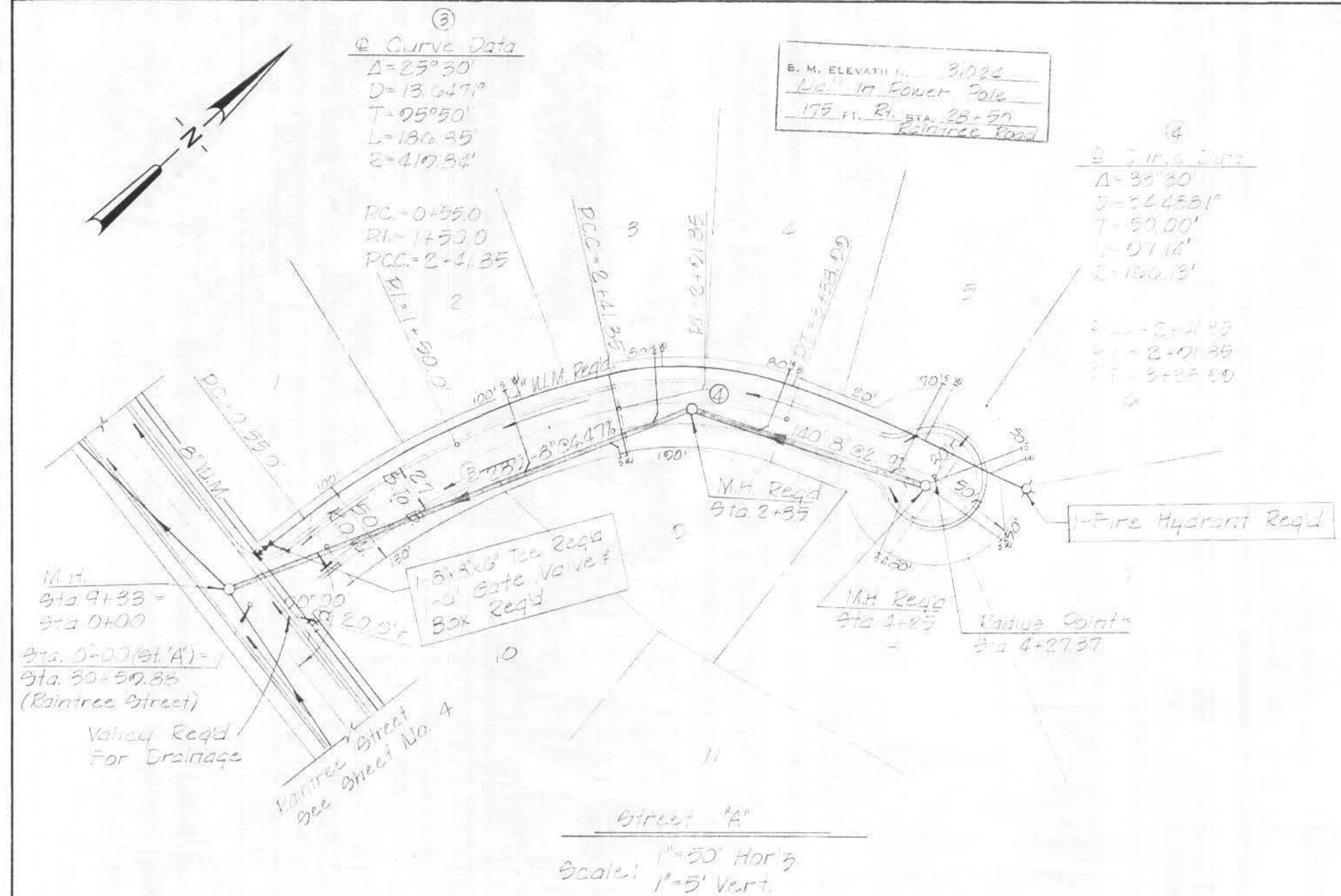
DATE: 7/22/17
 SURVEYED BY: C. COLLIER
 CHECKED BY: K. W. KISHA
 PROJECT: R. W. WAY CHECKED

DATE: 7/22/17
 SURVEYED BY: C. COLLIER
 CHECKED BY: K. W. KISHA
 PROJECT: R. W. WAY CHECKED

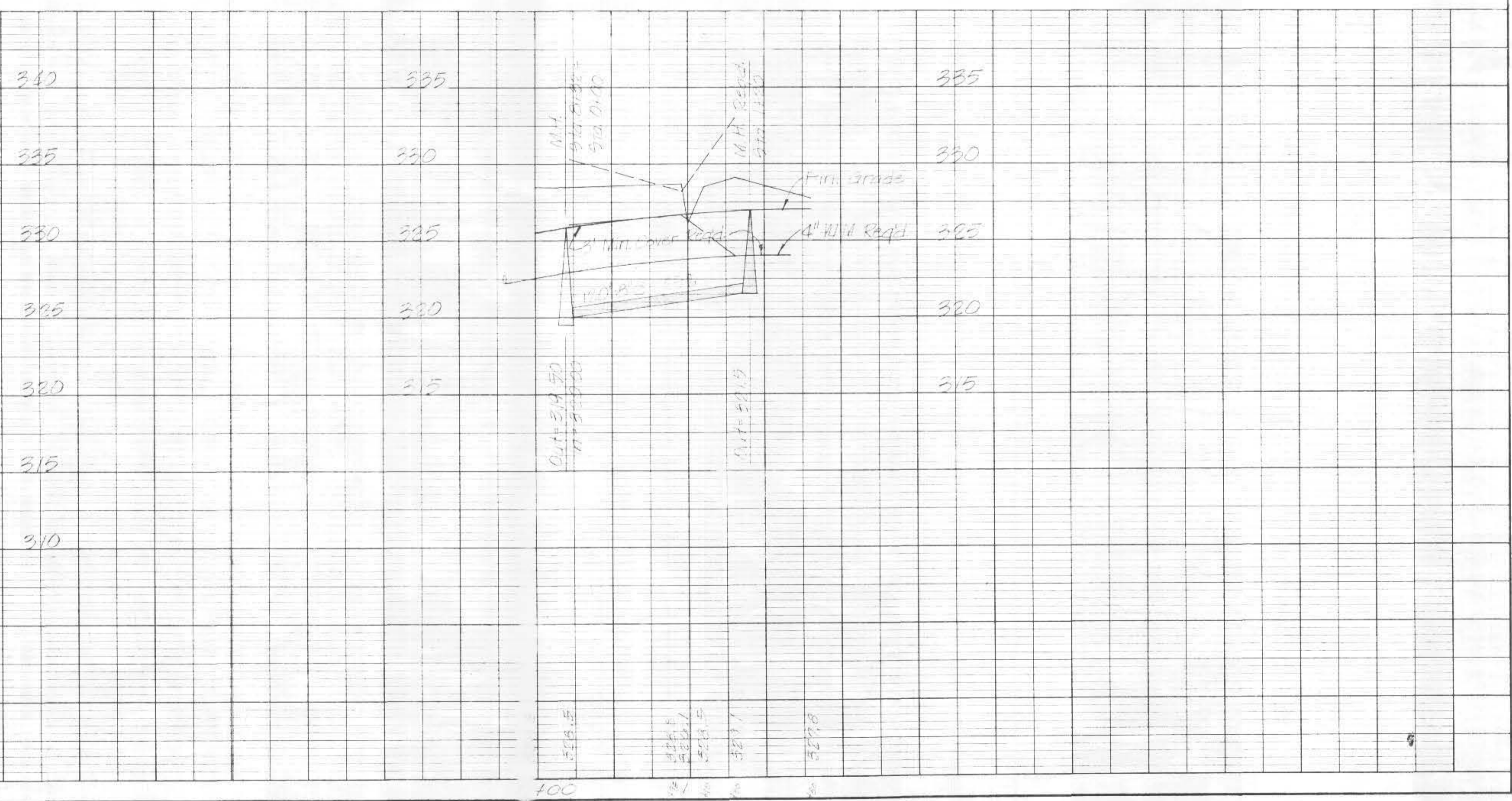
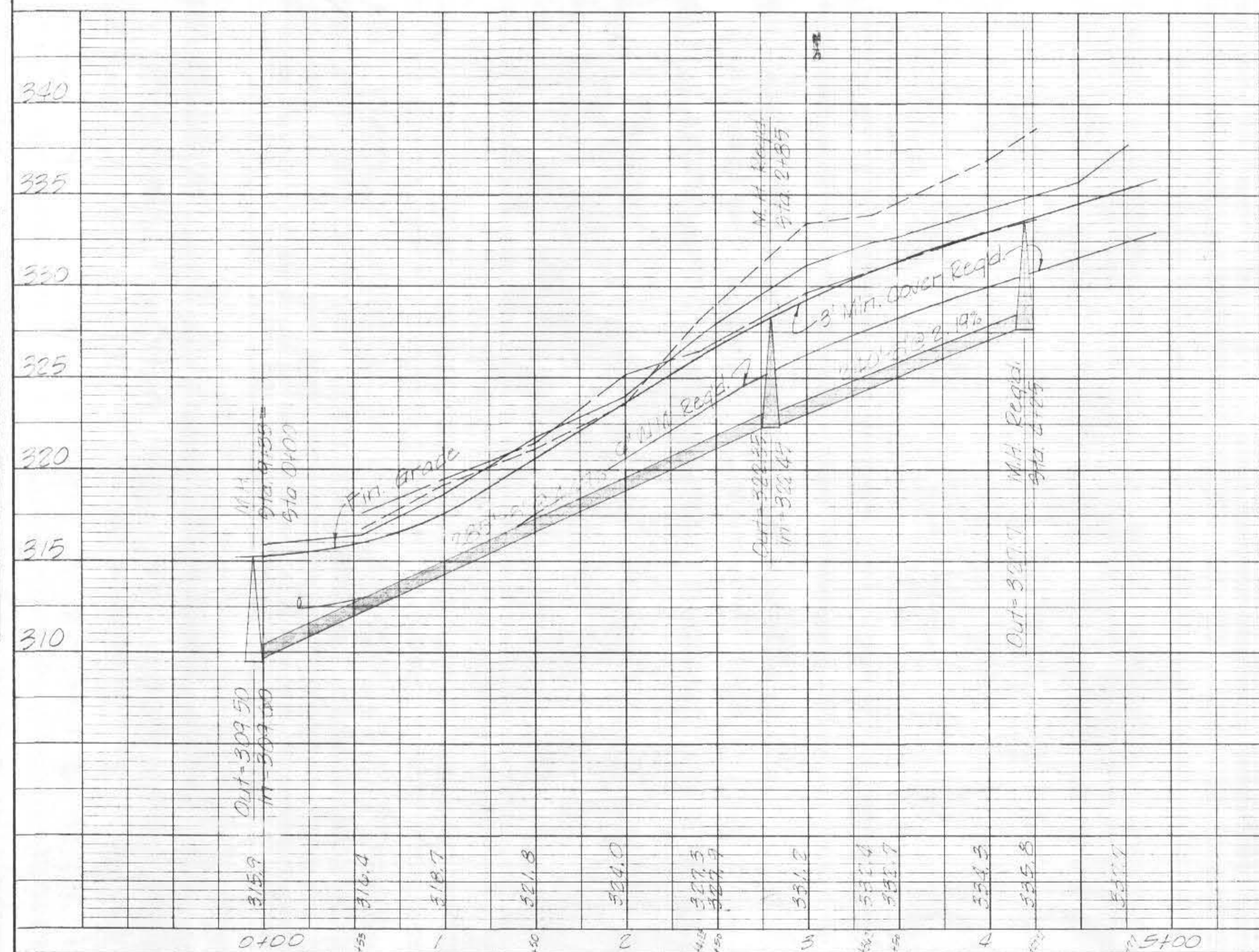


DATE: 12-1-72
 BY: J. J. Smith
 SURVEY: ALIQUOT CHECKED BY: J. J. Smith
 NOTE BOOK No. 48704

DATE: 12-1-72
 BY: J. J. Smith
 SURVEY: GRADES CHECKED BY: J. J. Smith
 NOTE BOOK No. 48704



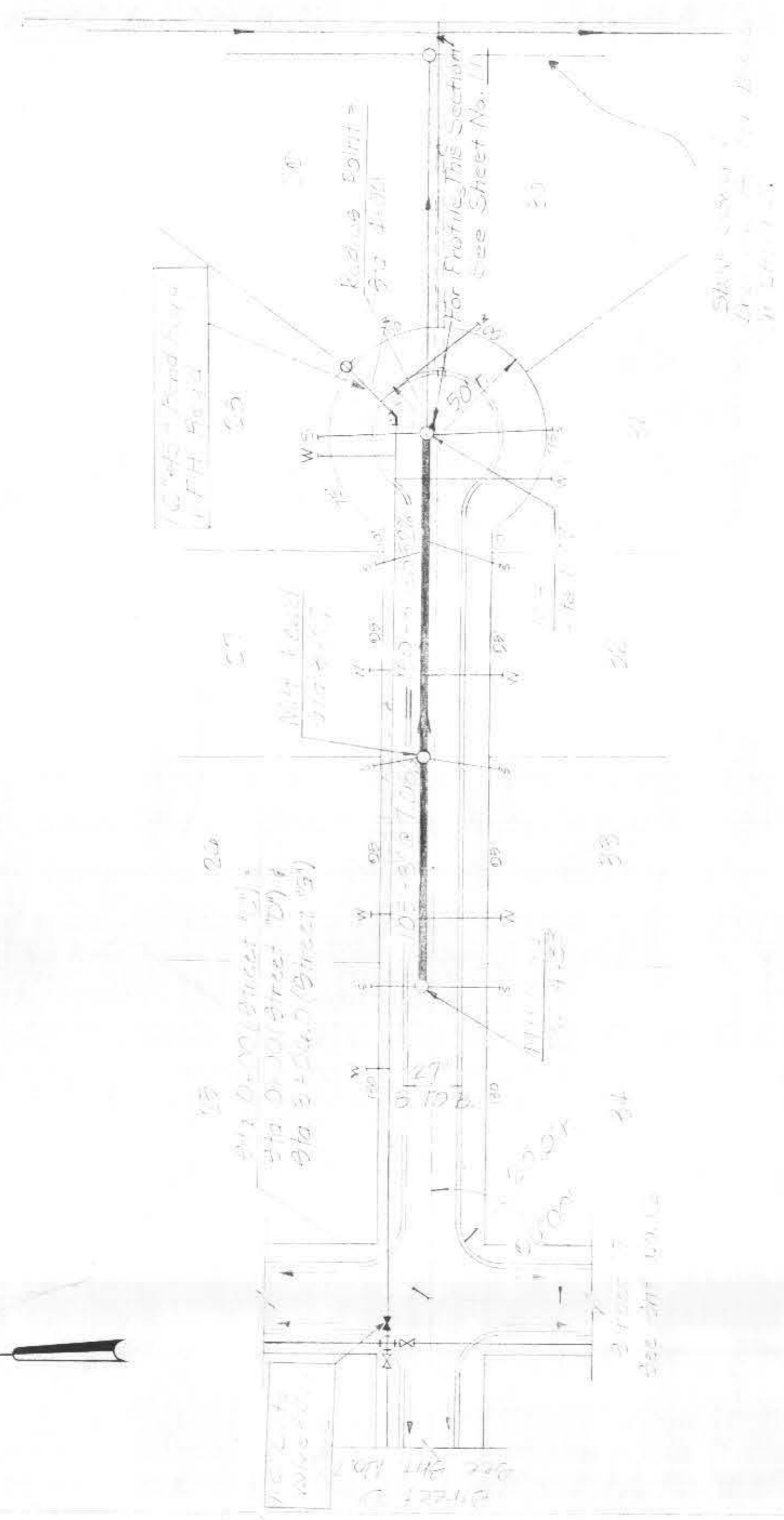
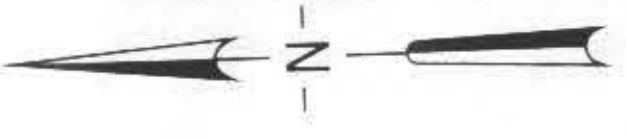
NOTES:
 1. For lot layout & drainage plan see sheet No. 2
 2. For water & power layout see sheet No. 3



Notes

1. For lot layout & coverage
 2. For lot area & perimeter
 3. For lot & street layout
 4. For lot & street layout

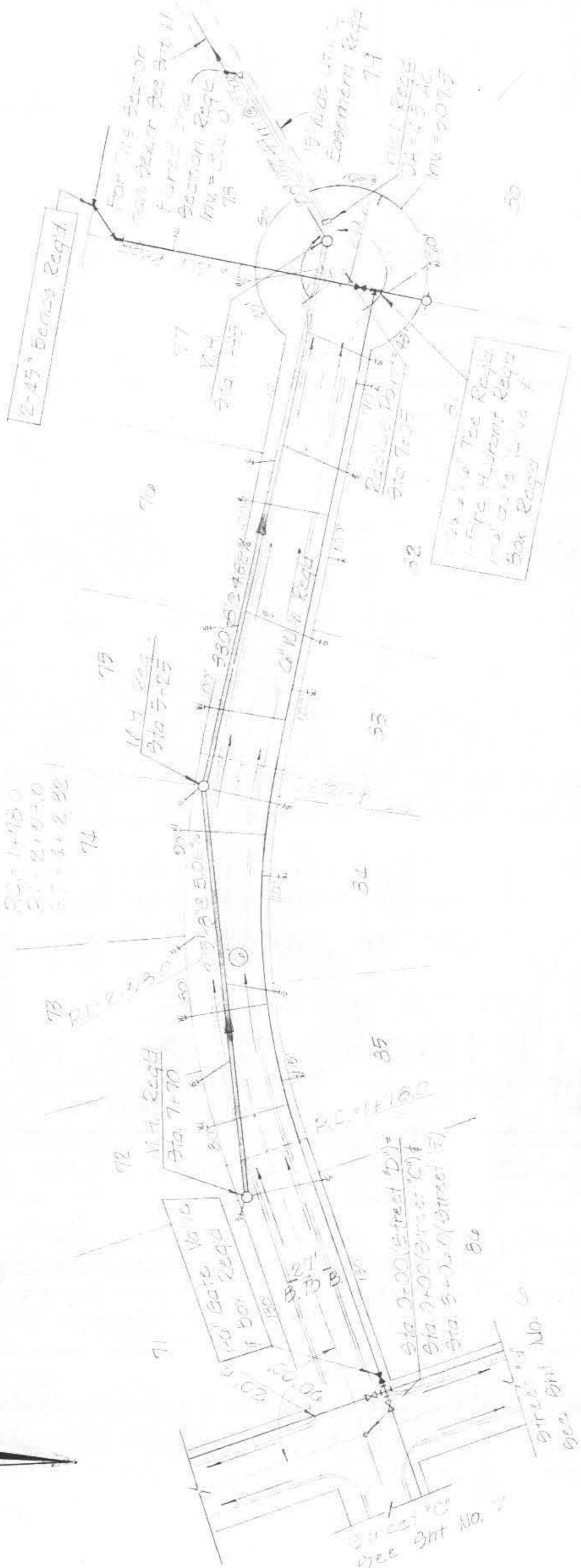
B. M. ELEVATION
 390.12
 10' 11" 1/2
 10' 11" 1/2
 10' 11" 1/2



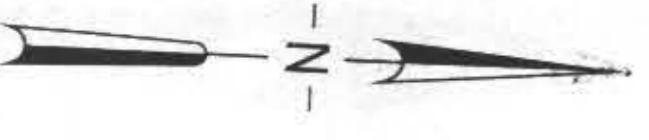
Street 'C'
 Scale 1"=50' Horiz.
 Scale 1"=5' Vert.

B. M. ELEVATION
 350.1
 10' 11" 1/2
 10' 11" 1/2
 10' 11" 1/2

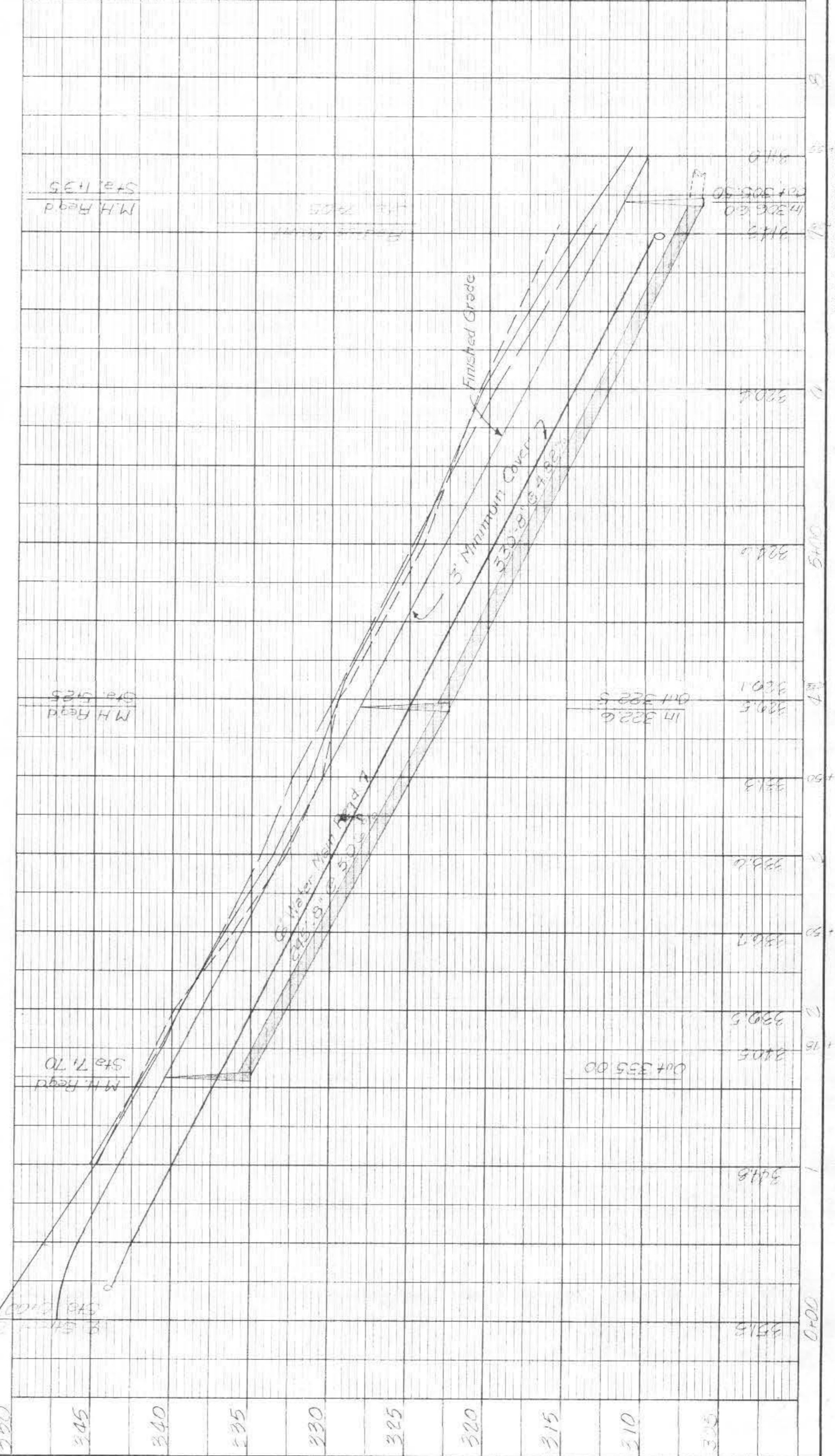
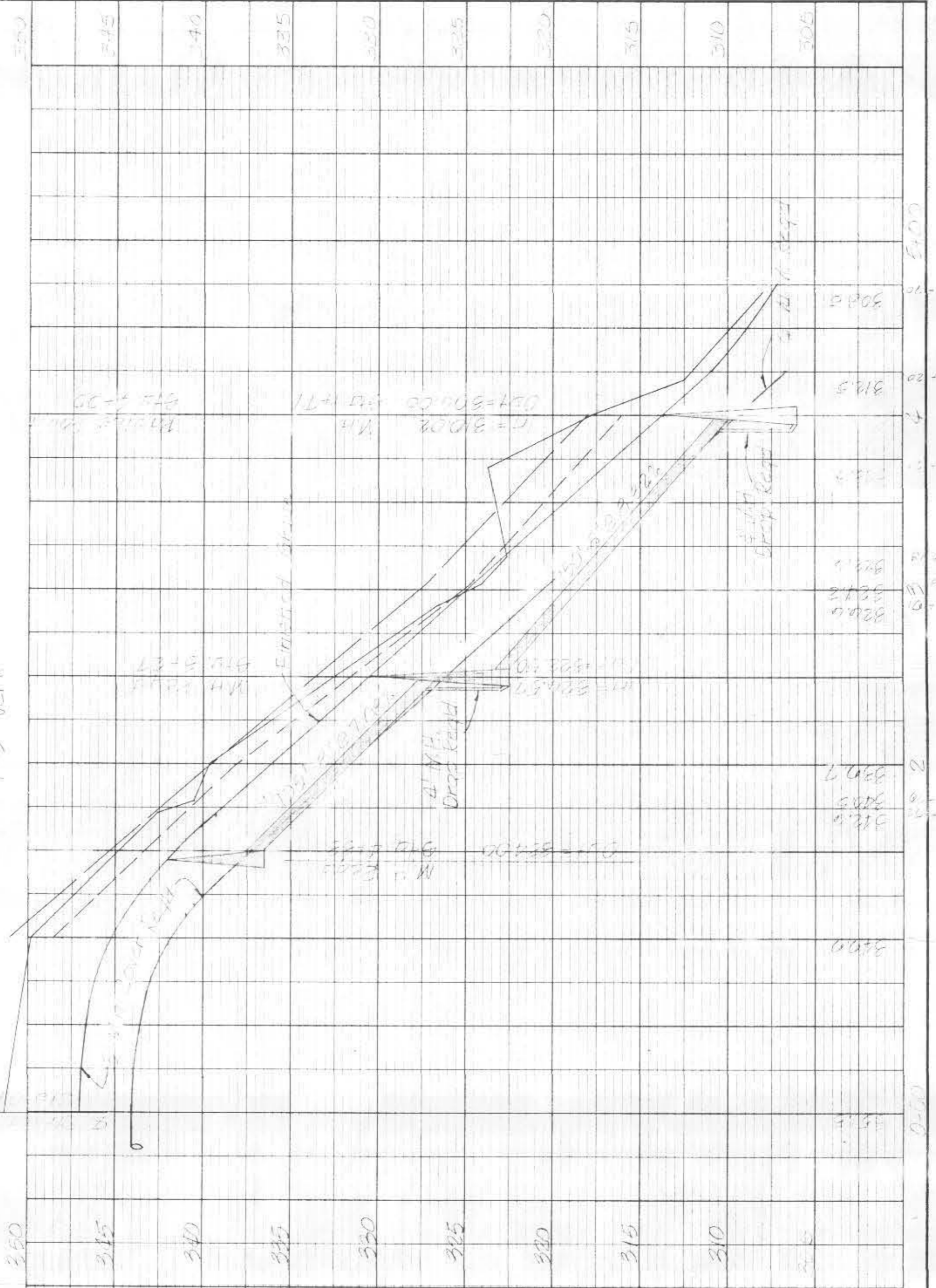
Curve Data
 Δ=30° 26'
 D=130.785'
 T=181.5'
 L=251.80'
 R=410.10'



Street 'D'
 Scale 1"=50' Horiz.
 Scale 1"=5' Vert.

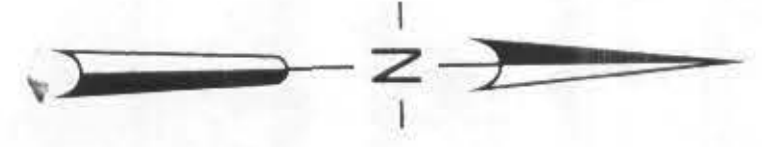


DATE	BY	SCALE	PROJECT
10-27-11	J. Smith	1"=50'	STREET IMPROVEMENT
NO.	REVISIONS	BY	DATE
1			

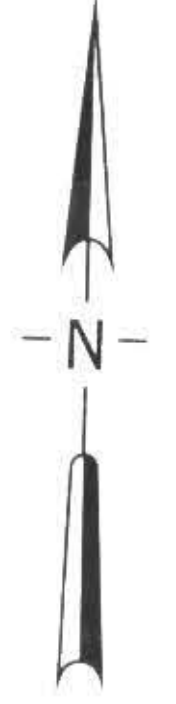


DATE	BY	SCALE	PROJECT
10-27-11	J. Smith	1"=50'	STREET IMPROVEMENT
NO.	REVISIONS	BY	DATE
1			

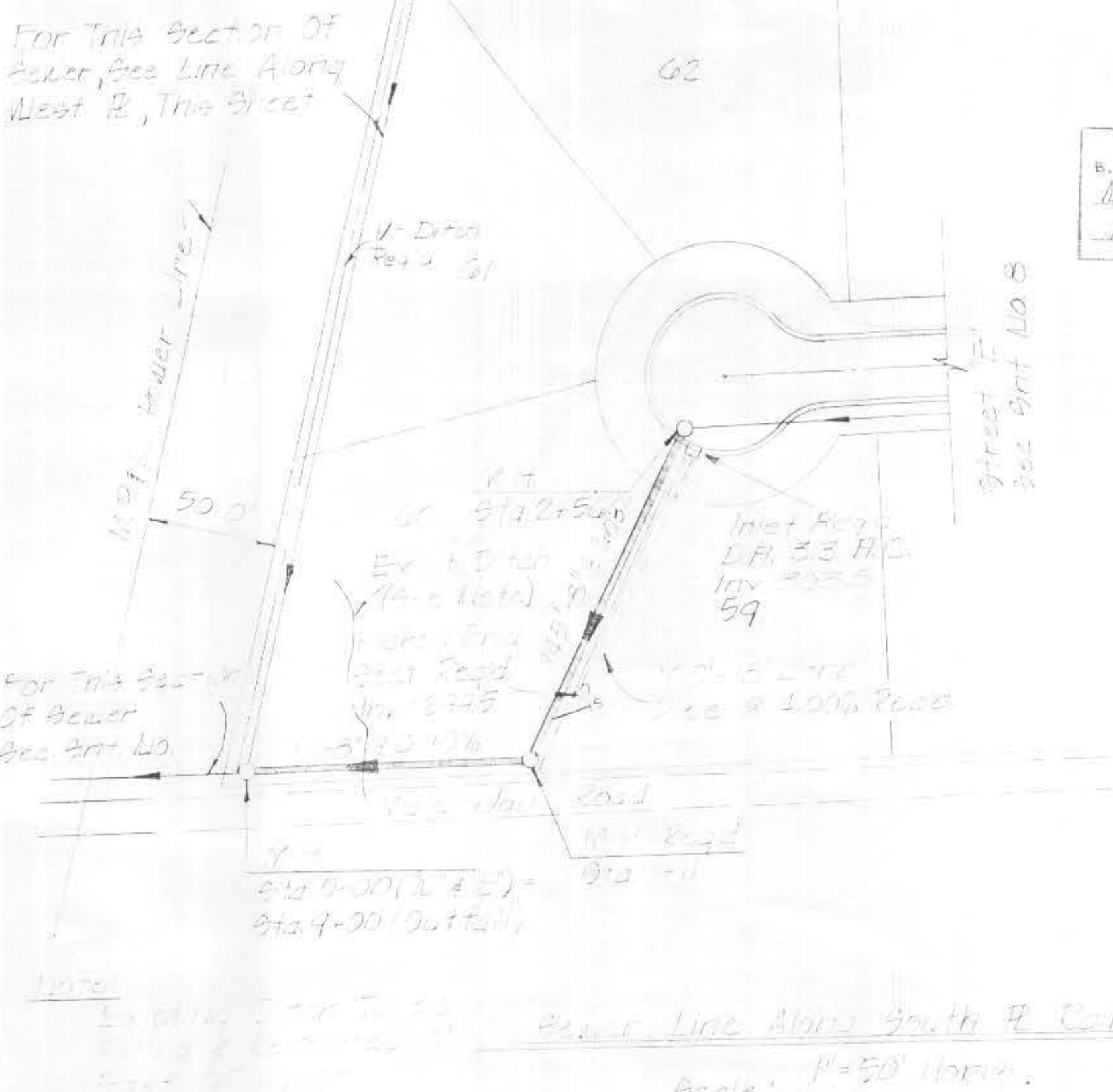
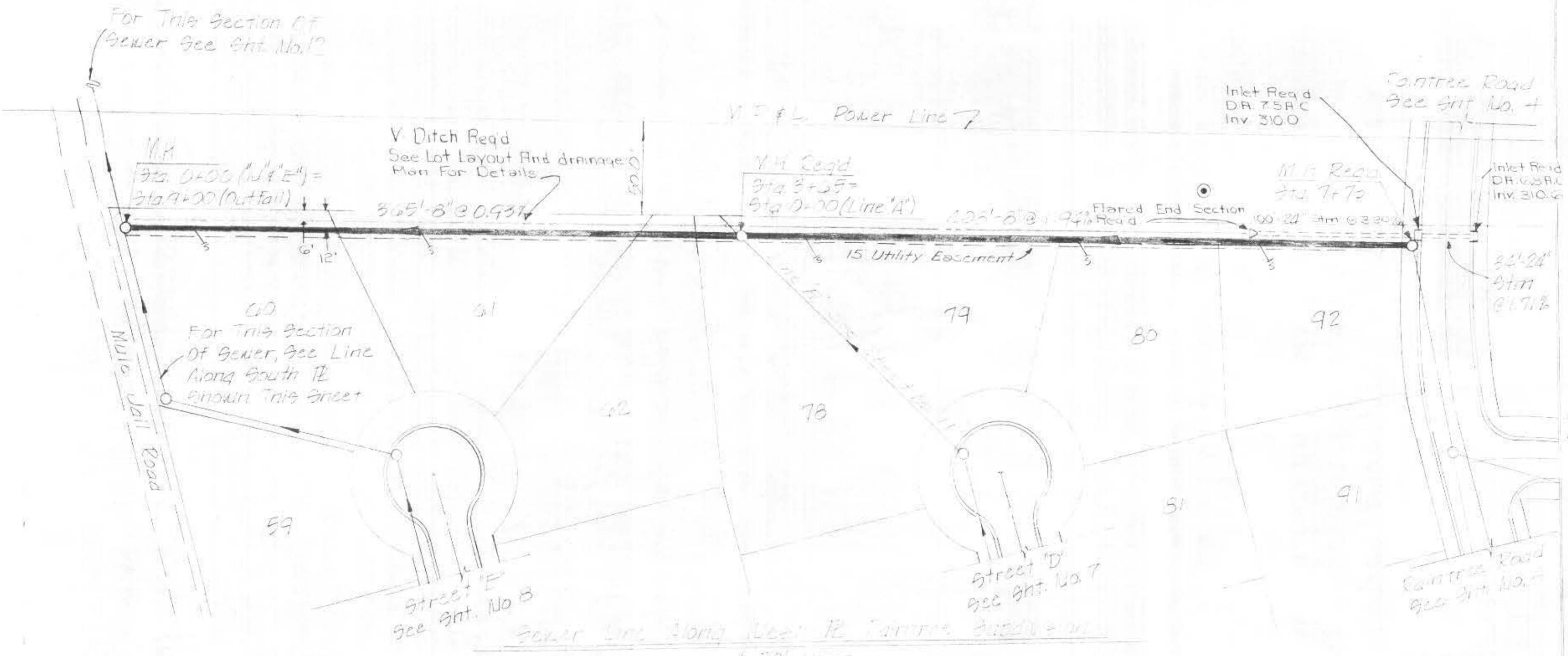
S. M. ELEVATION 310.24
 Mail in Power Pole
 175 n. Rt. Sta. 28+52
 Raintree St



S. M. ELEVATION 310.24
 Mail in Power Pole
 175 n. Rt. Sta. 28+52
 Raintree St



DATE
 BY
 SURVEYED
 ROUTED
 NOTE BOOK
 NO.

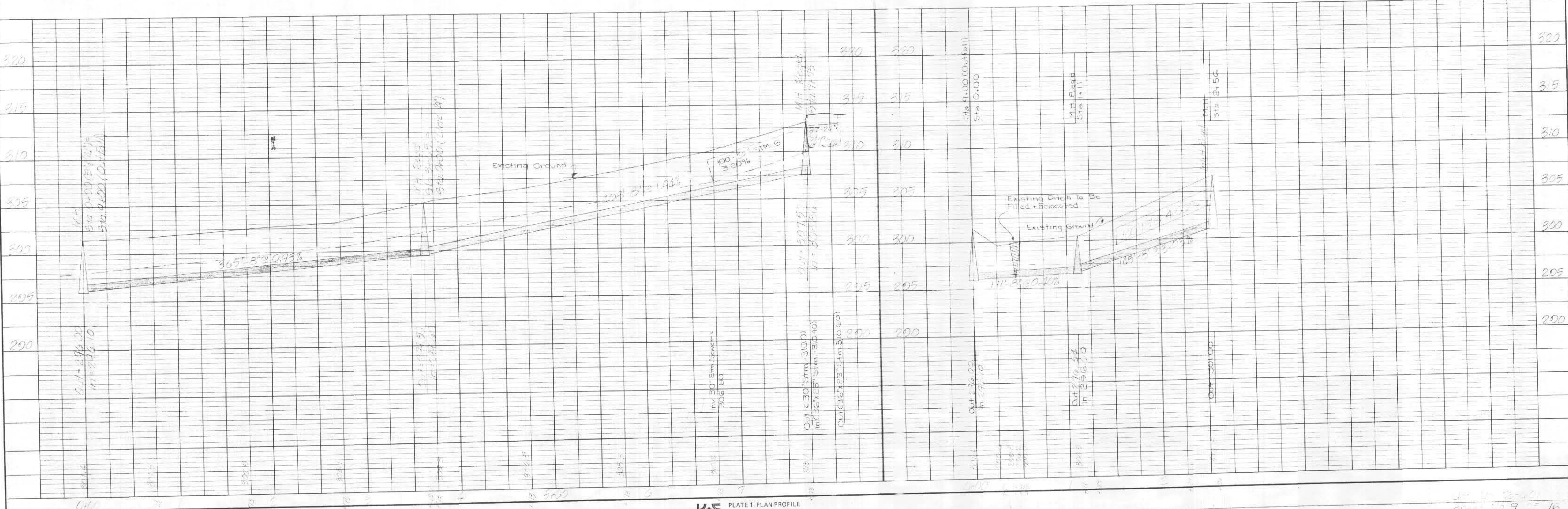


Note: See Typical Sanitary Sewer & Drainage Installation West Property Line, See Sheet No. 8.

Scale: 1"=5' Vert.

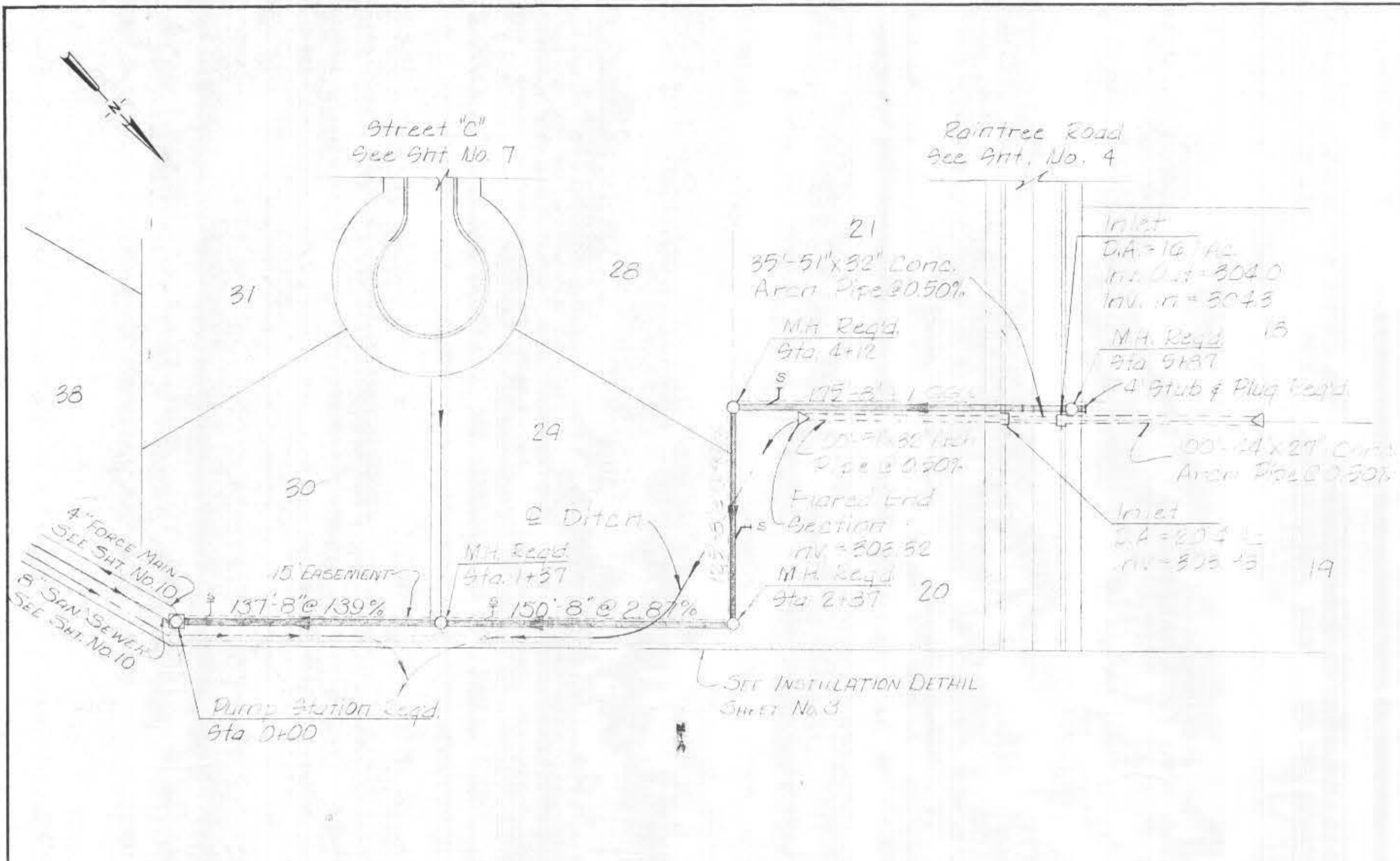
Scale: 1"=5' Vert.

DATE
 BY
 SURVEYED
 ROUTED
 NOTE BOOK
 NO.



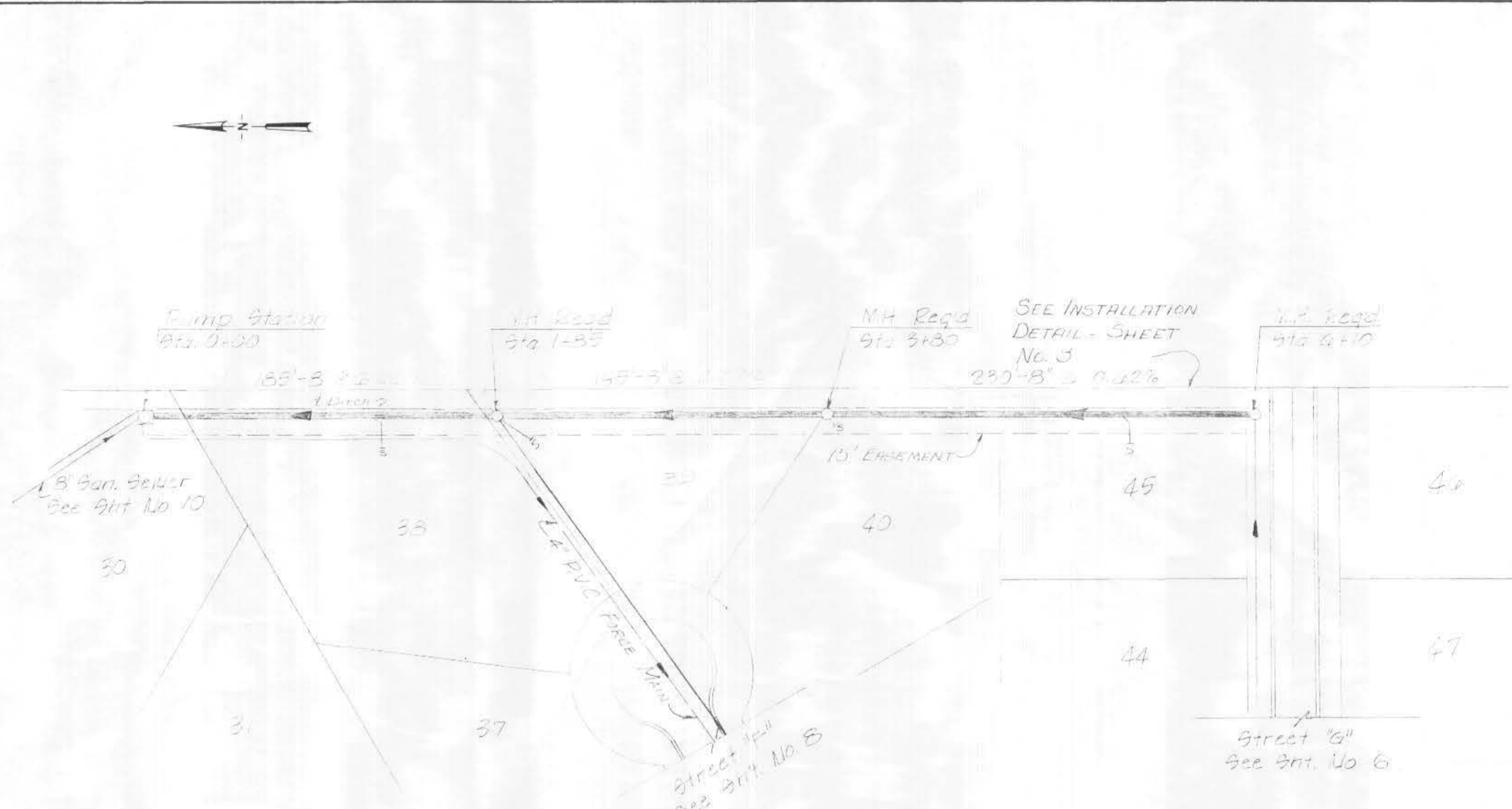
Sta. 28+52
 28+52.9 16

DATE: _____ BY: _____
 PLAN
 SURVEYED, PLOTTED, ALIGNED, CHECKED, INSTRUCTIONS CHECKED, No.



B. M. ELEV. 350.14
 Nail in side 10" Elm.
 70 ft. Lt. Sta. 0+70
 Street

Sewer Line From Pump Station North
 Basis: 1"=50' Horiz.
 1"=7' Vert.



B. M. ELEV. 215.05
 Nail in east 24" Oak
 12 ft. Lt. Sta. 0+90
 Street

Sewer Line From Pump Station South
 Basis: 1"=50' Horiz.
 1"=7' Vert.

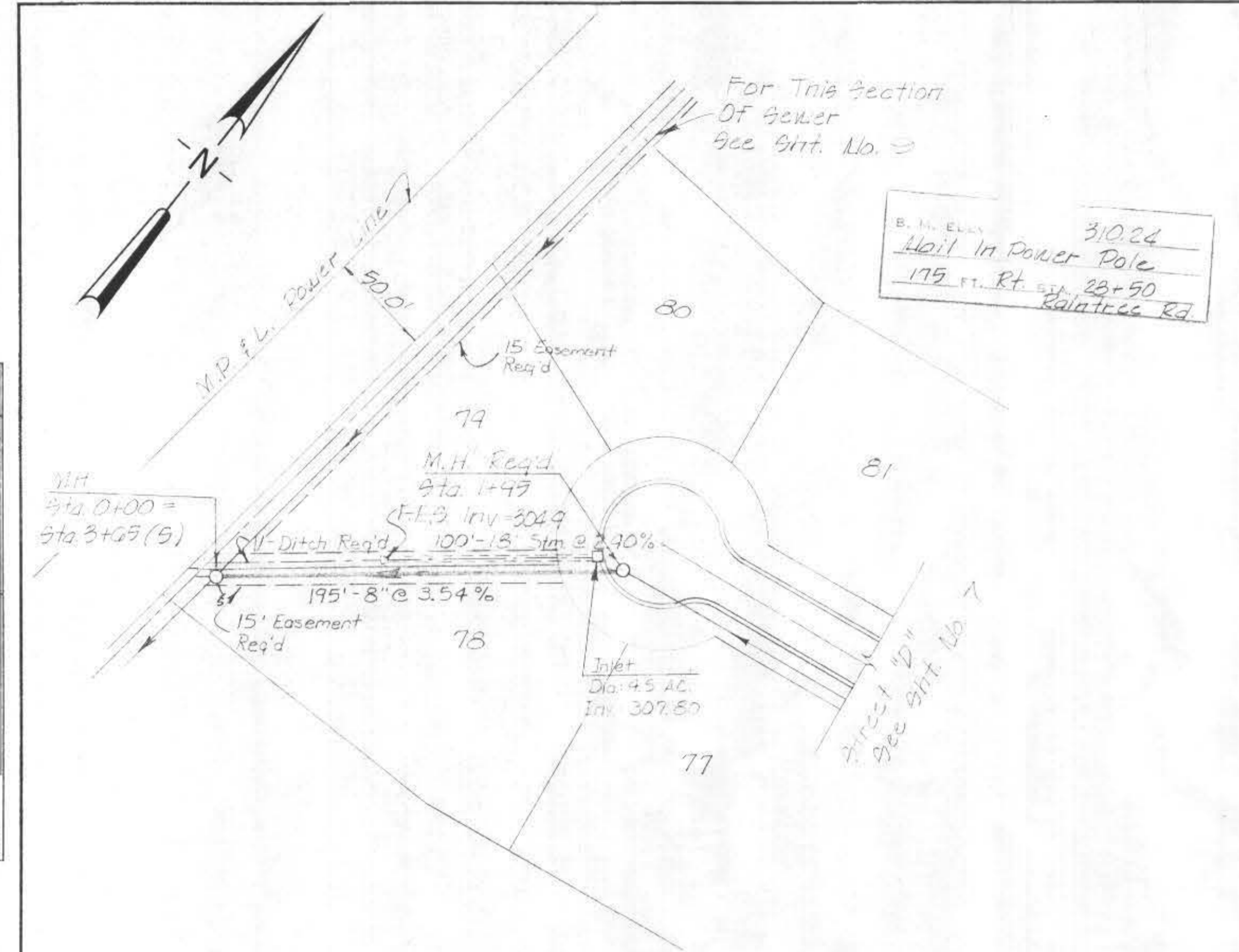
Notes:
 1. From Lot Layout & Drainage Plan See Sheet No. 2
 2. For Meter & Bower Layout See Sheet No. 3

DATE: _____ BY: _____
 PROFILE
 SURVEYED, PLOTTED, GRADES CHECKED, SECTIONS LOCATIONS CHECKED, No.

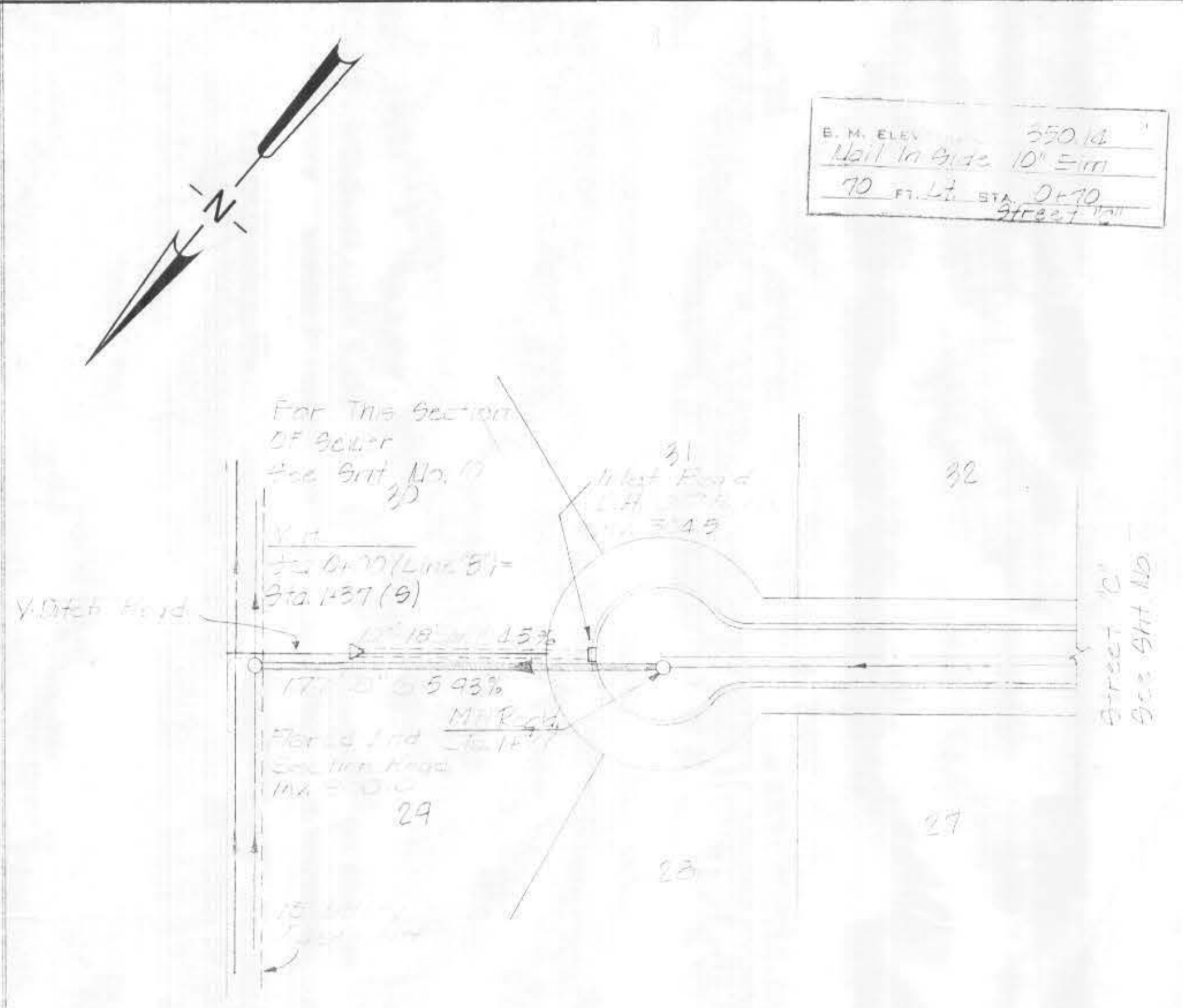


DATE
BY
SURVEYED
NOTED
NOTE BOOK
NO.

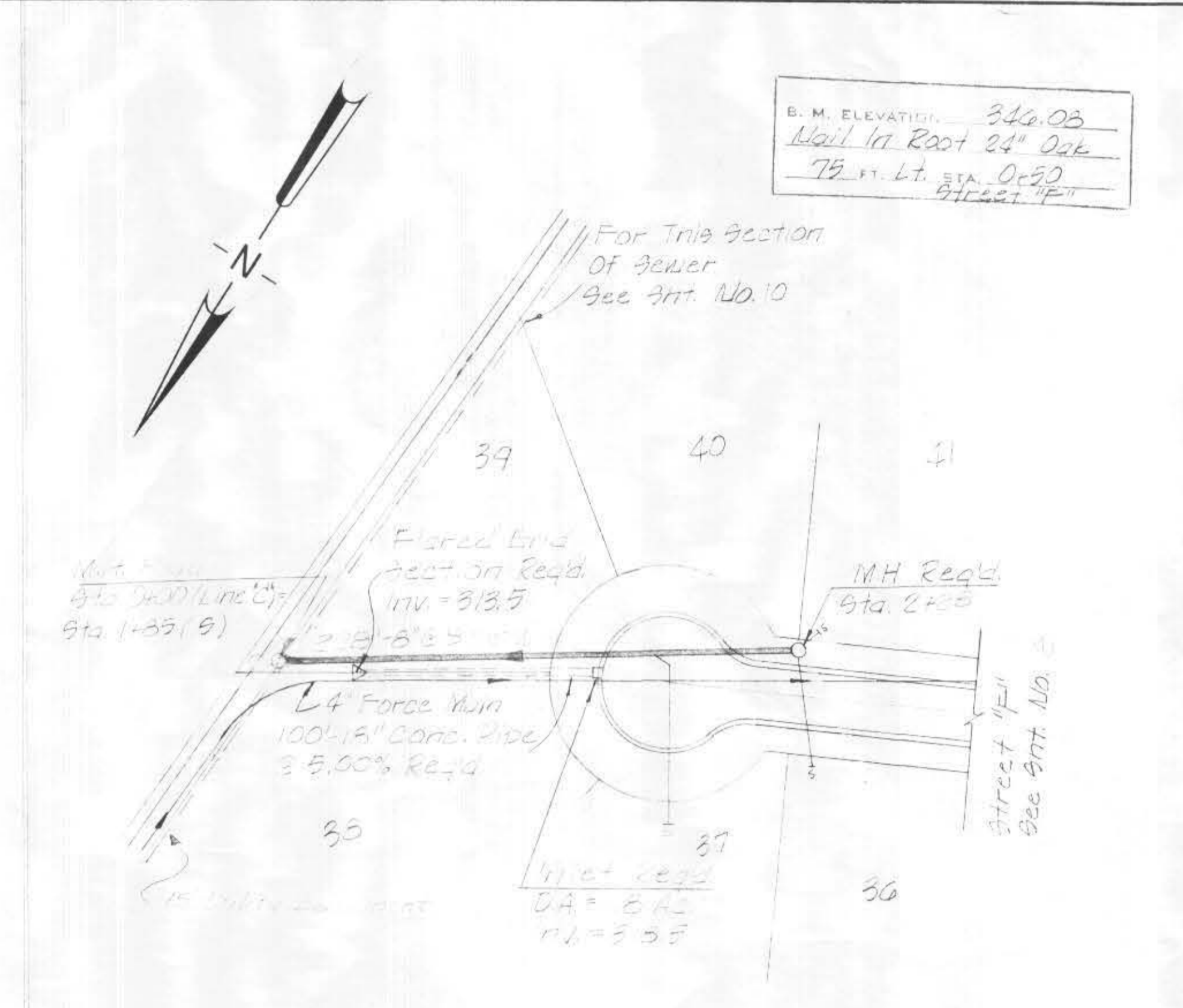
DATE
BY
SURVEYED
NOTED
NOTE BOOK
NO.



Sewer Line "A"
Scale: 1"=50' Horiz.
1"=5' Vert.

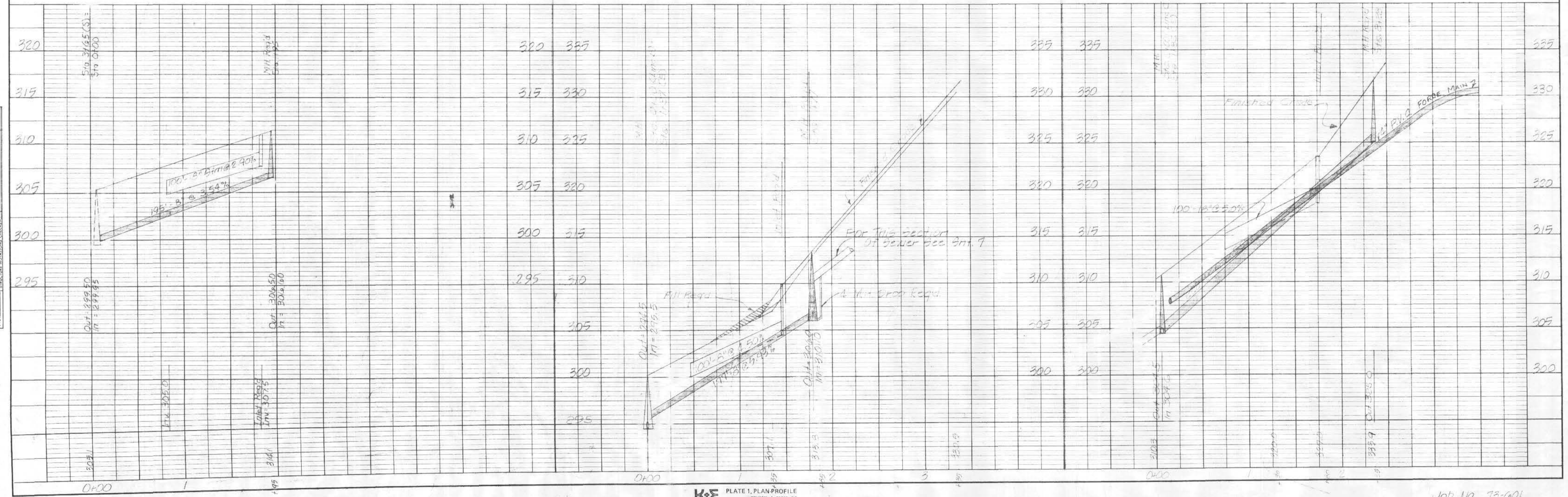


Sewer Line "B"
Scale: 1"=50' Horiz.
1"=5' Vert.



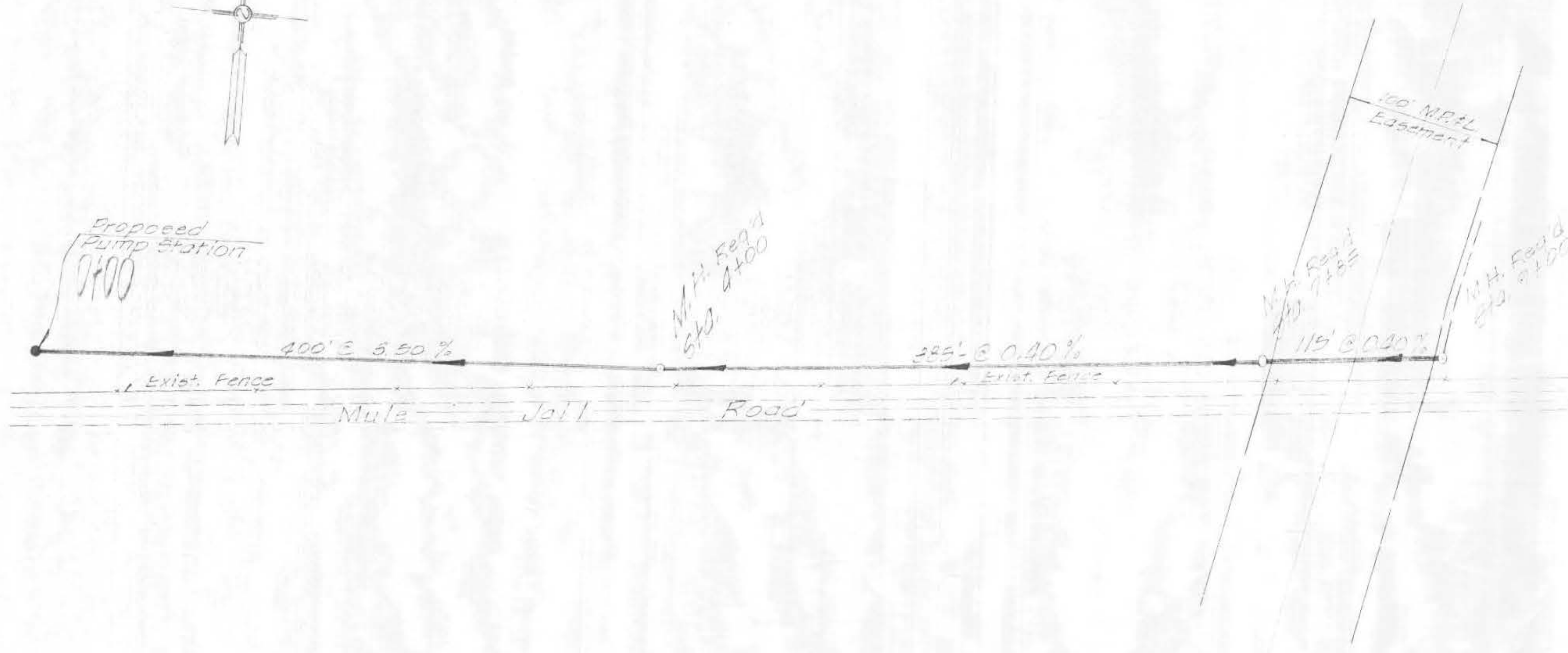
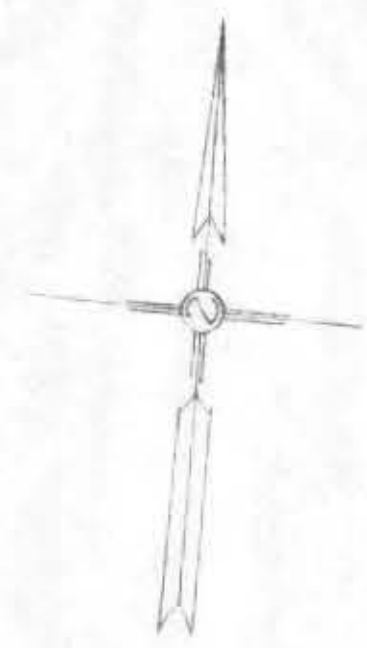
Sewer Line "C"
Scale: 1"=50' Horiz.
1"=5' Vert.

Notes:
1. For Lot Layout & Drainage Plan see Sheet No. 2
2. For Water & Sewer Layout see Sheet No. 3



DATE
BY
SURVEYED
NOTED
NOTE BOOK
No.

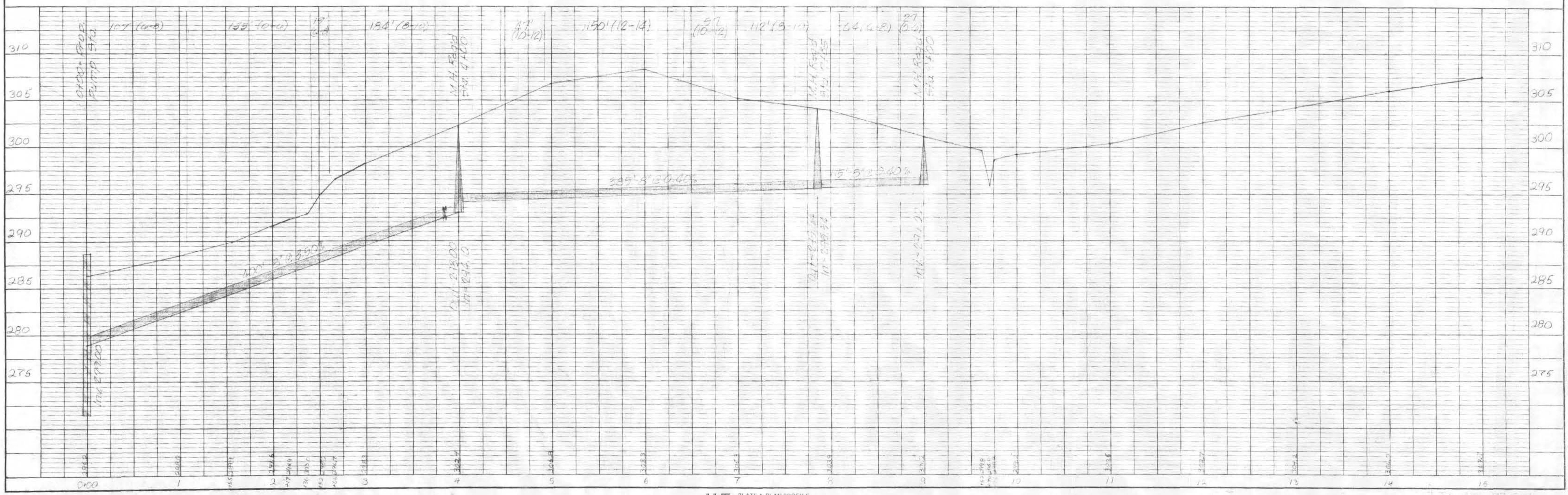
DATE
BY
SURVEYED
NOTED
NOTE BOOK
No.

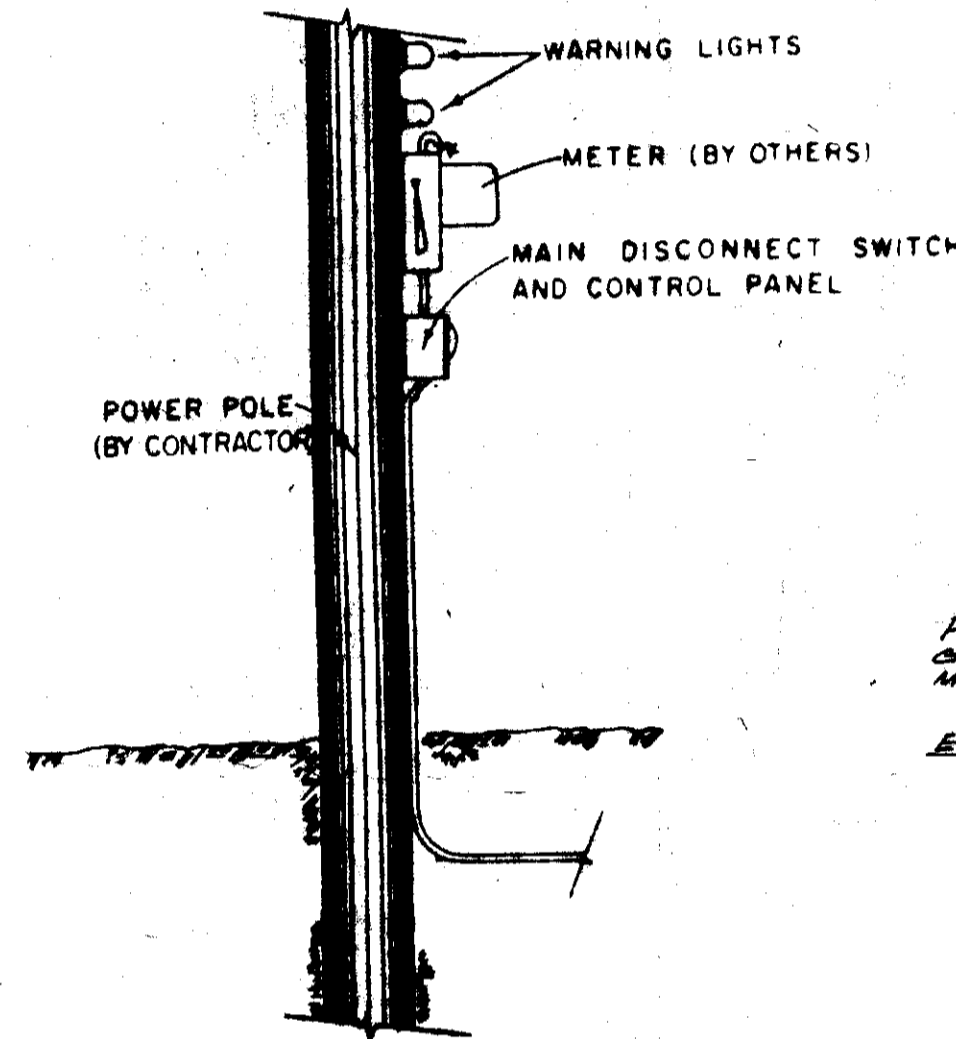
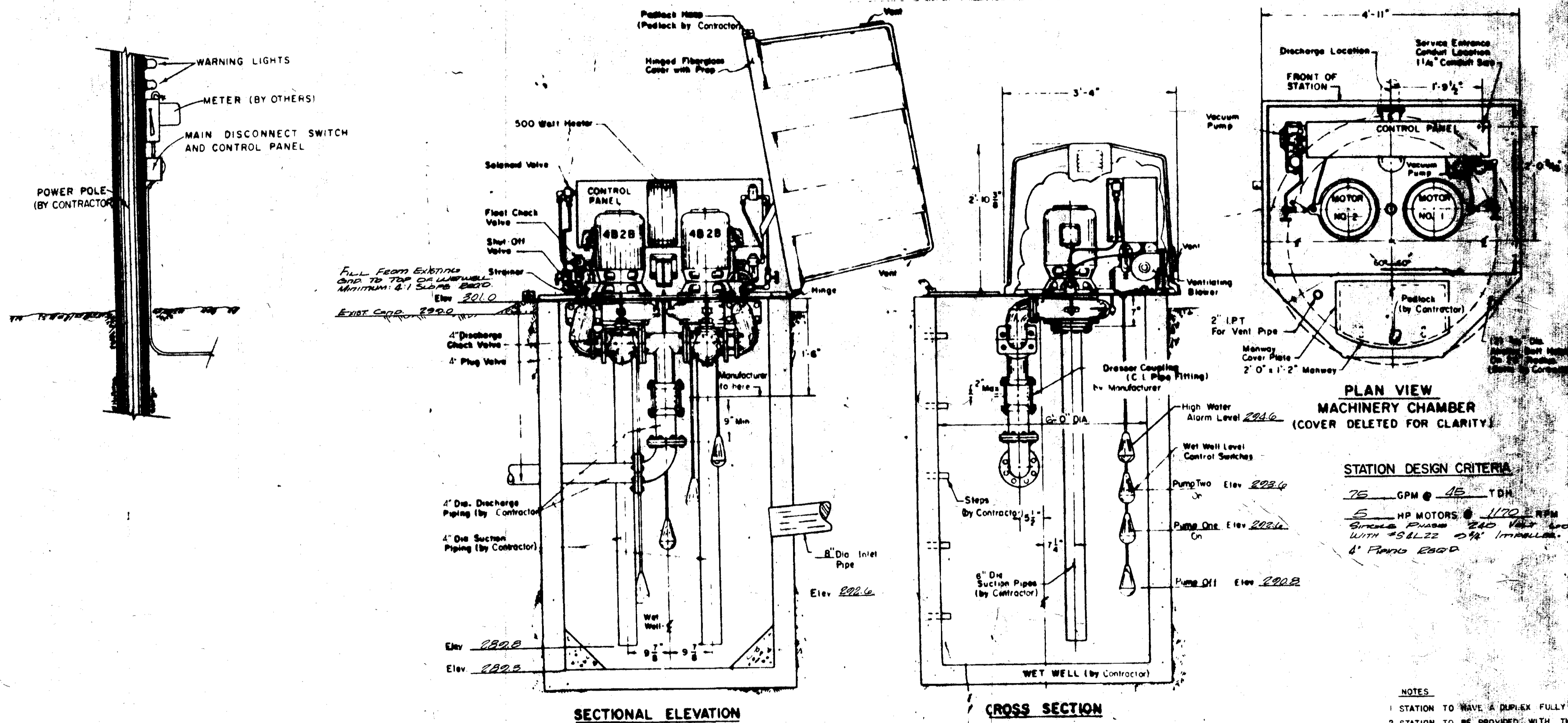


Note:
This portion of sewer
is being constructed
by the town of ...

- 150 LF (12-13)
- 104 LF (10-12)
- 295 LF (13-10)
- 182 LF (14-8)
- 150 LF (10-4)
- 1 Conr. To Wetwell
- 8 M.H. (2-10)
- 1 M.H. (3-8)
- Mobilization or Export L.B.
- Cleaning & Grubbing L.B.
- Worked gravel

Plan: Sewer Along Mule Jail Road
Scale: 1" = 5' Vertical



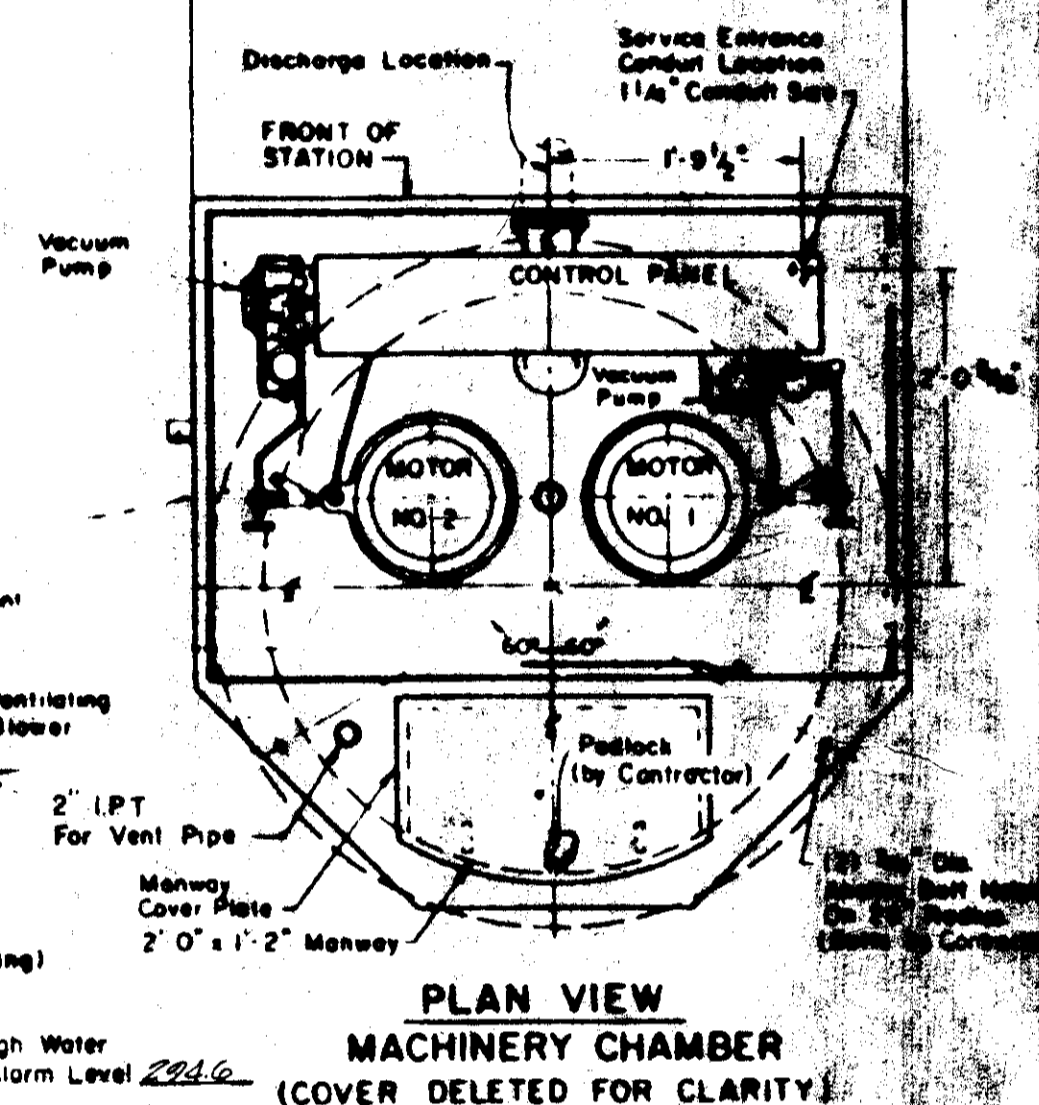


FILL FROM EXISTING
DND TO TOP OF WETWELL
MINIMUM 2' SLABS 2000
Elev 2010
EXIST. CORR. 2000

4" Discharge
Check Valve
4" Plug Valve
4" Discharge
Piping (by Contractor)
4" Dia Suction
Piping (by Contractor)
Elev 2000
Elev 2002

8" Dia Inlet
Pipe
Elev 2006
Wet Well
9" Min
Manufacturer
to here

2" 10 3/8"
3'-4"
2'-10 3/8"
2" Dia
Dresser Coupling
(C 1 Pipe Fitting)
by Manufacturer
High Water
Alarm Level 2006
Wet Well Level
Control Switches
Pump Two Elev 2004
Pump One Elev 2004
Pump Off Elev 2002
6" Dia
Suction Pipes
(by Contractor)
Steps
By Contractor
WET WELL (by Contractor)

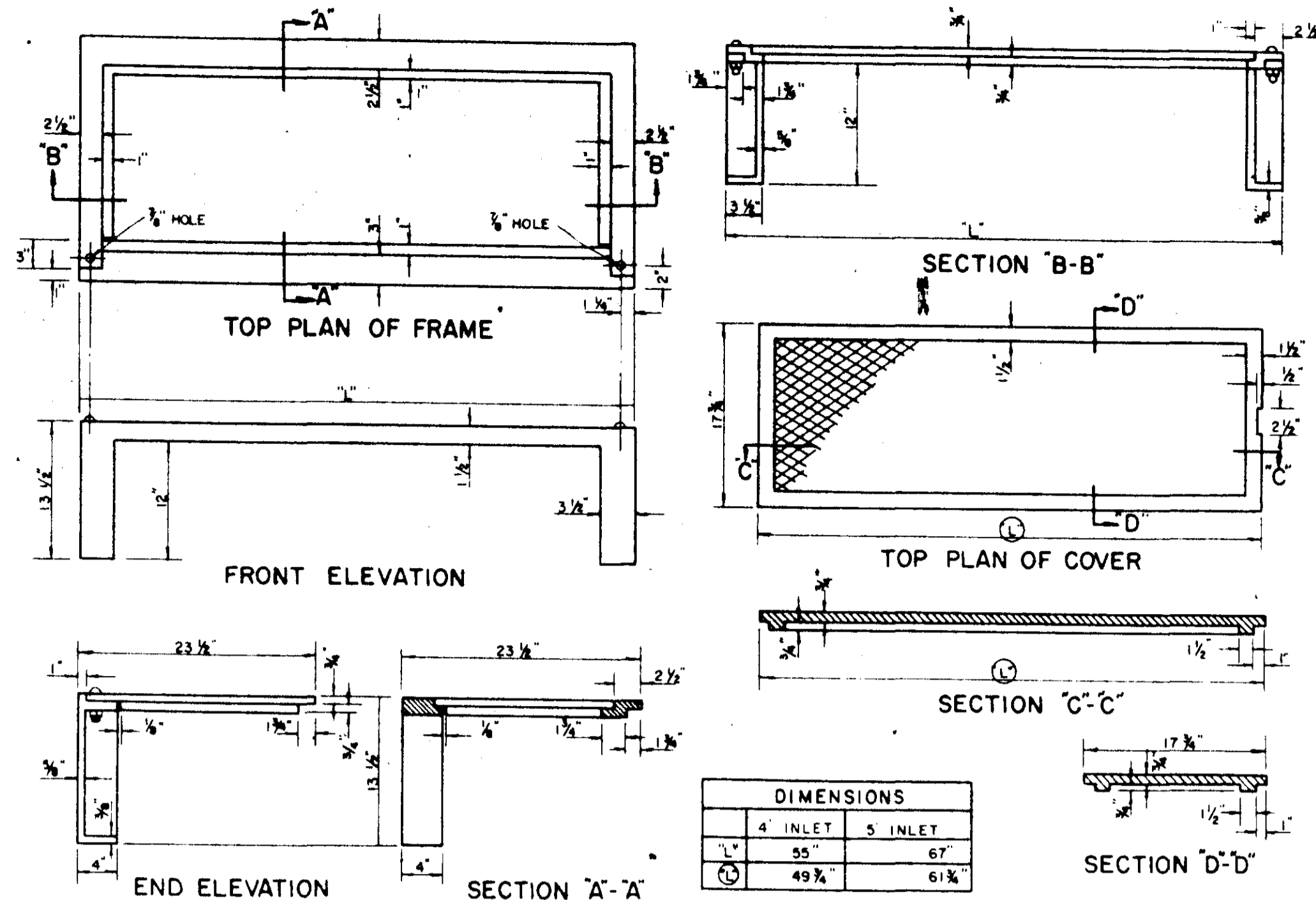


STATION DESIGN CRITERIA

75 GPM @ 45 TDH
5 HP MOTORS @ 1170 RPM
Single Phase 240 Volt 60 Hz
With #14-22 0.75" IMPELLER
4" Piping 2000

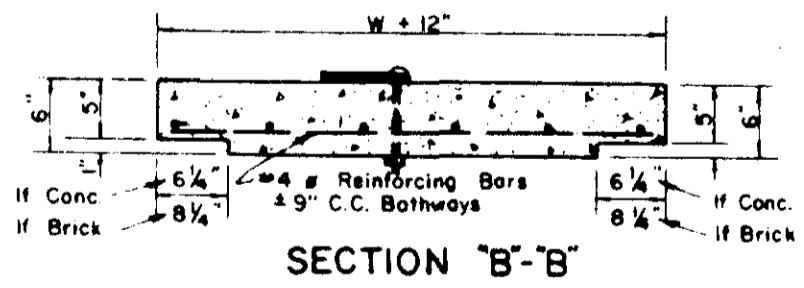
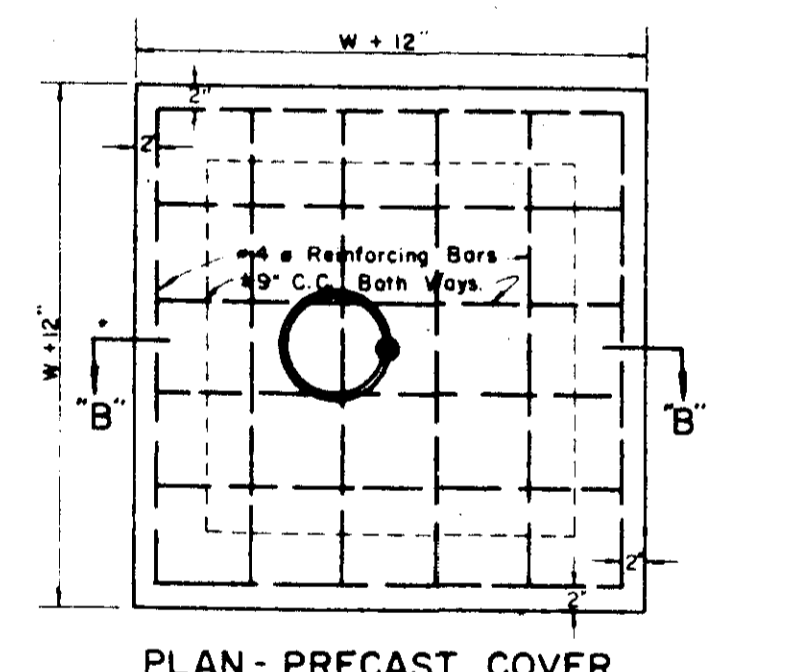
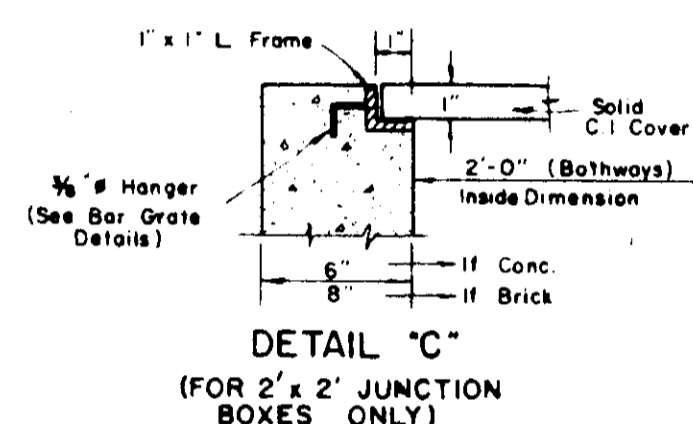
- NOTES**
- STATION TO HAVE A DUPLEX FULLY AUTOMATIC CONTROL SYSTEM
 - STATION TO BE PROVIDED WITH THE FOLLOWING ADDITIONAL FEATURES:
 - HIGH WATER ALARM SENSOR
 - RED ALARM LIGHT
 - GREEN "POWER ON" LIGHT
 - TWO (2) ELAPSED TIME METER

DESIGNED	
DRAWN	
APPROVED	
DATE	
REV	
NO.	



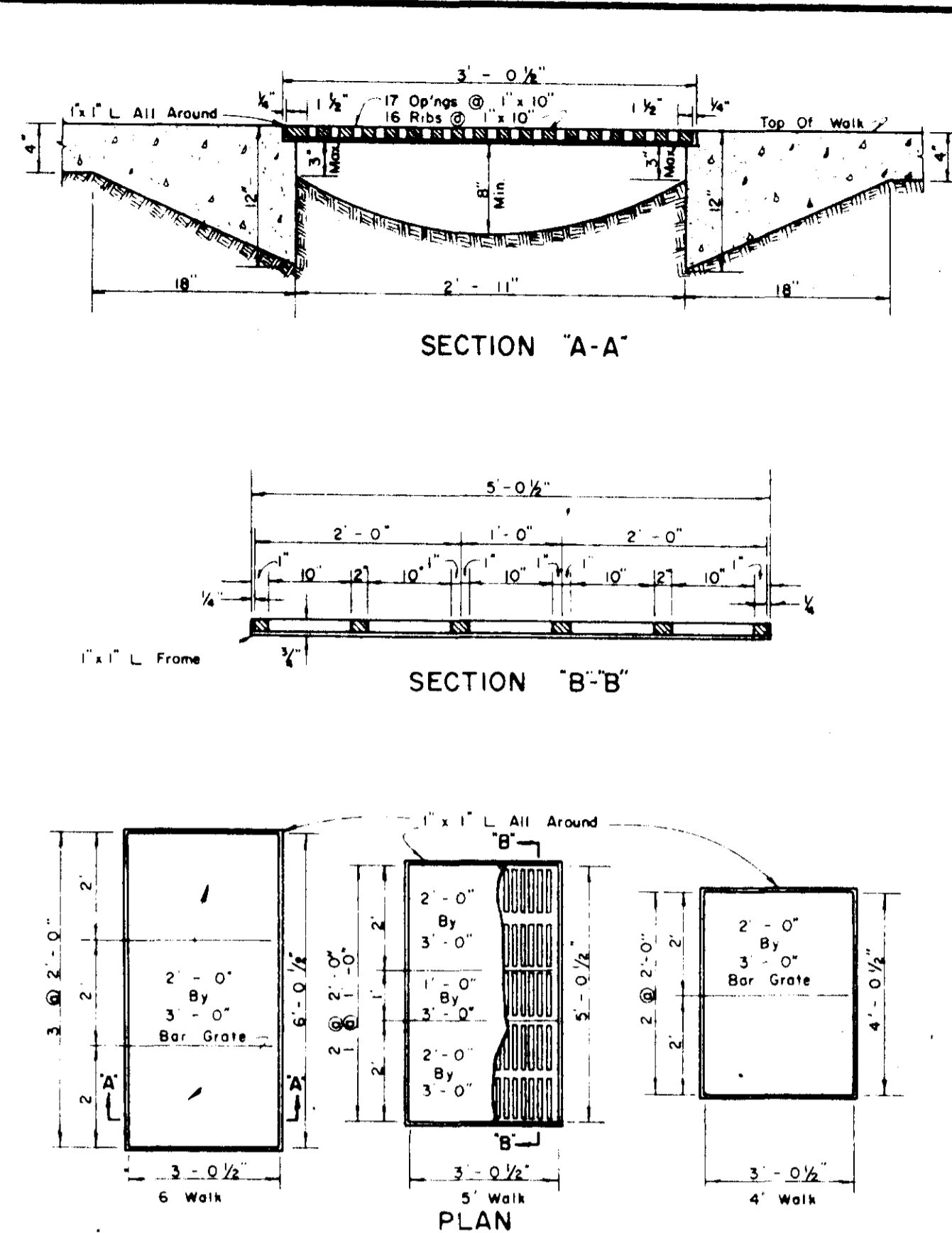
CURB INLET CASTING DETAILS
(NON-TRAFFIC)

DIMENSIONS	
4 INLET	5 INLET
55"	67"
49 1/2"	61 1/2"

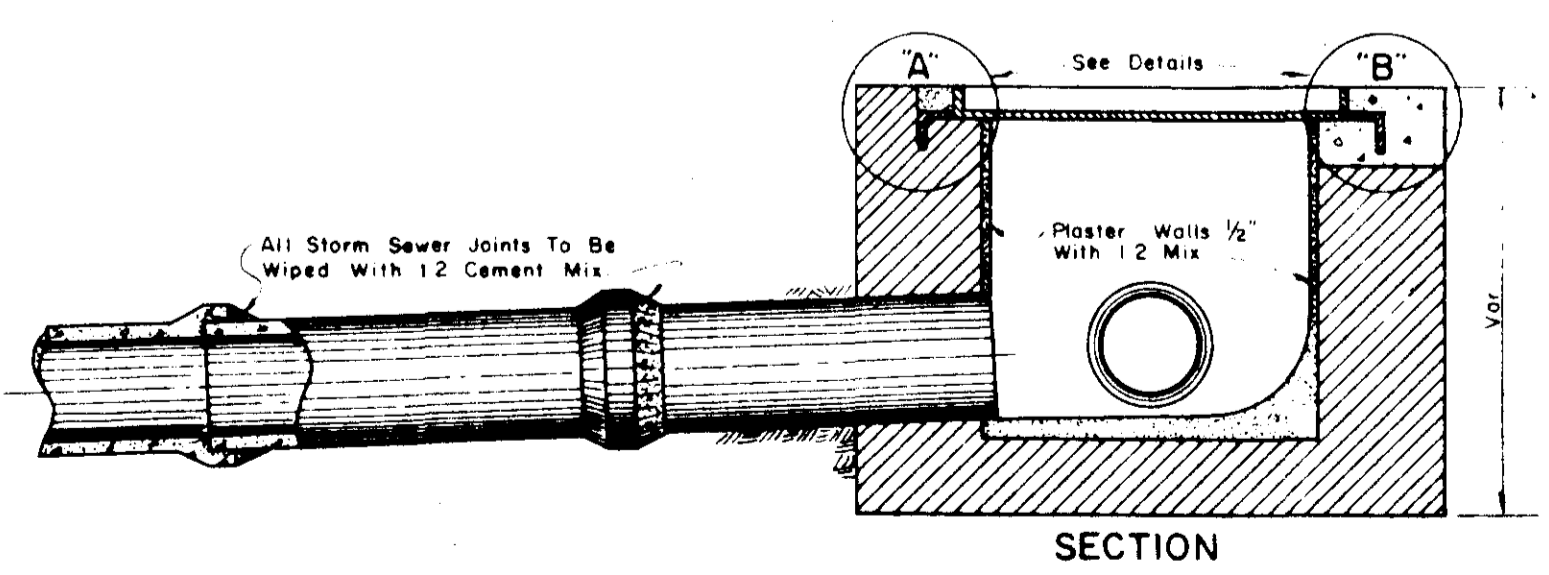
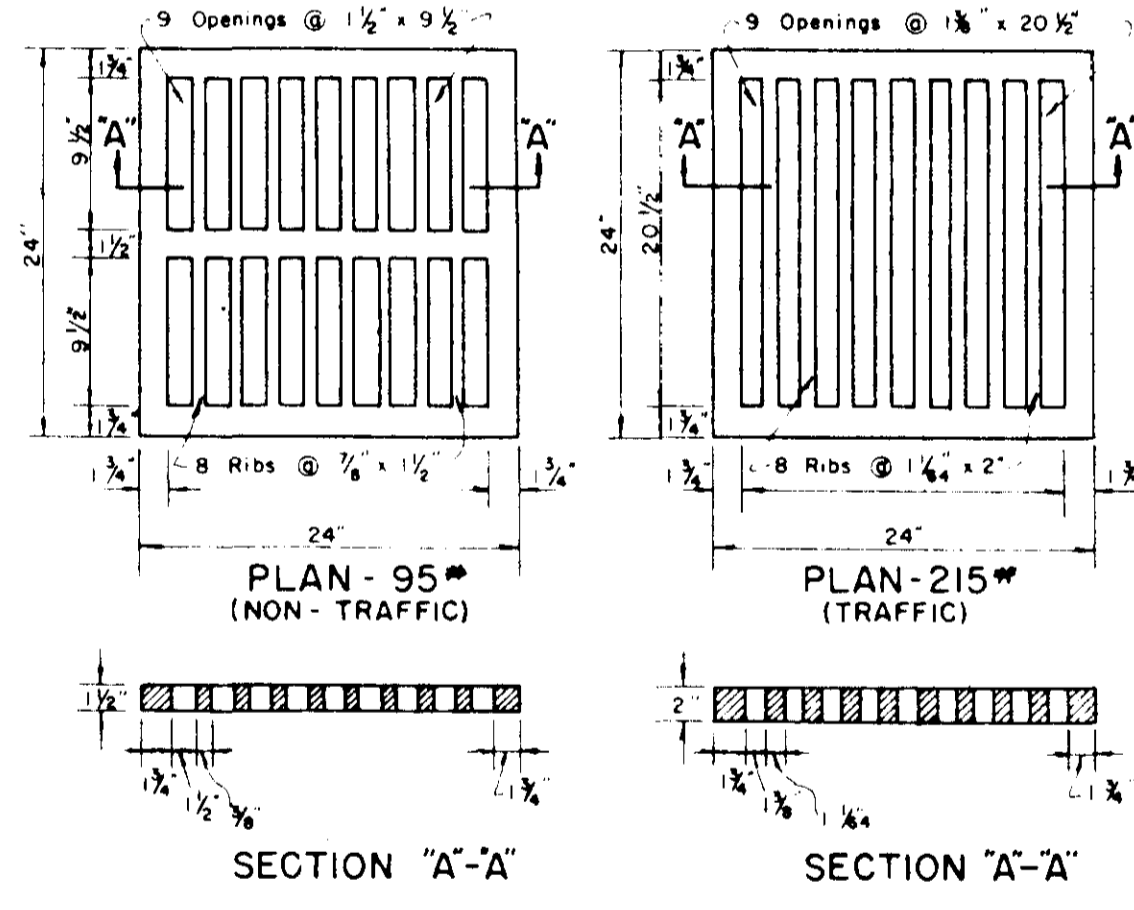
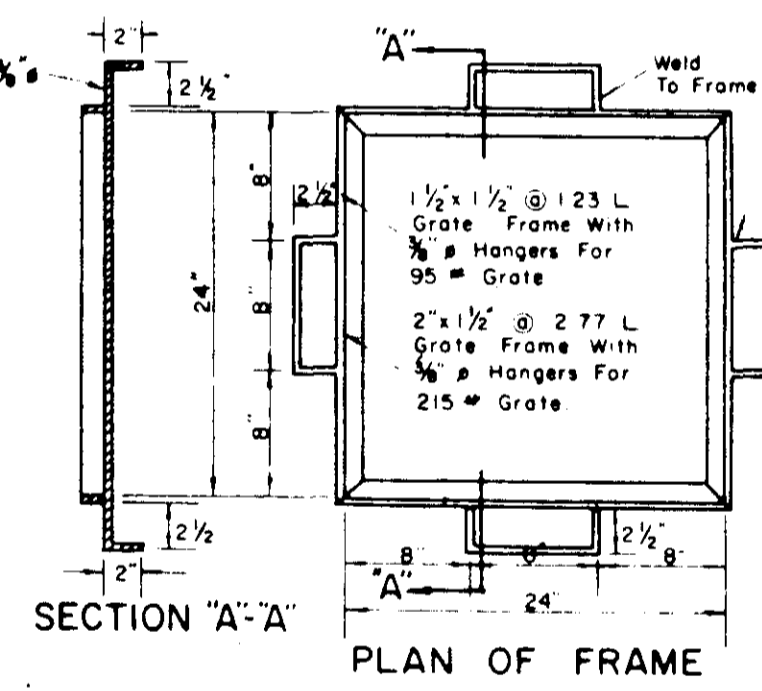


CONCRETE		JUNCTION		BOX	
DIMENSIONS		QUANTITIES		BAR LIST	
TYPE	DIA OF PIPE	MIN CONC	MIN CONC	CONC	STEEL
A	12"	2.27	0.87	0.18	0.024
B	15"	2.28	0.81	0.21	0.036
A	18"	2.31	0.81	0.23	0.049
A	21"	2.34	0.81	0.25	0.066
A	24"	2.37	0.81	0.27	0.085
B	27"	2.42	0.84	0.30	0.111
B	30"	2.48	0.84	0.38	0.135
B	36"	2.57	0.84	0.58	0.187
C	42"	2.59	0.84	0.67	0.233
C	48"	2.72	0.84	0.73	0.288
D	54"	2.77	0.84	1.00	0.427
D	60"	2.81	0.84	1.09	0.524

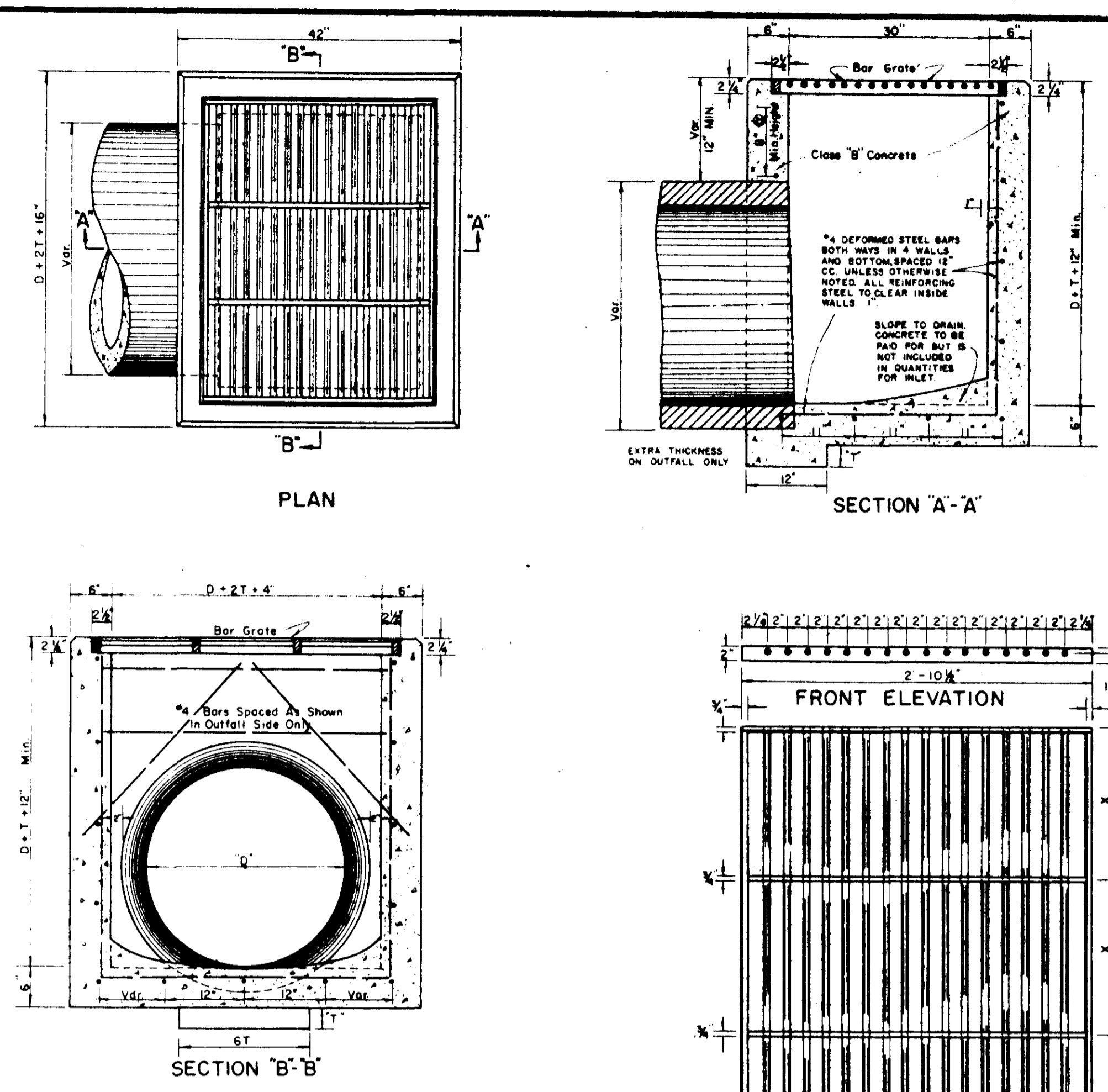
JUNCTION BOX DETAILS



WALK GRATING DETAILS
(NON-TRAFFIC)

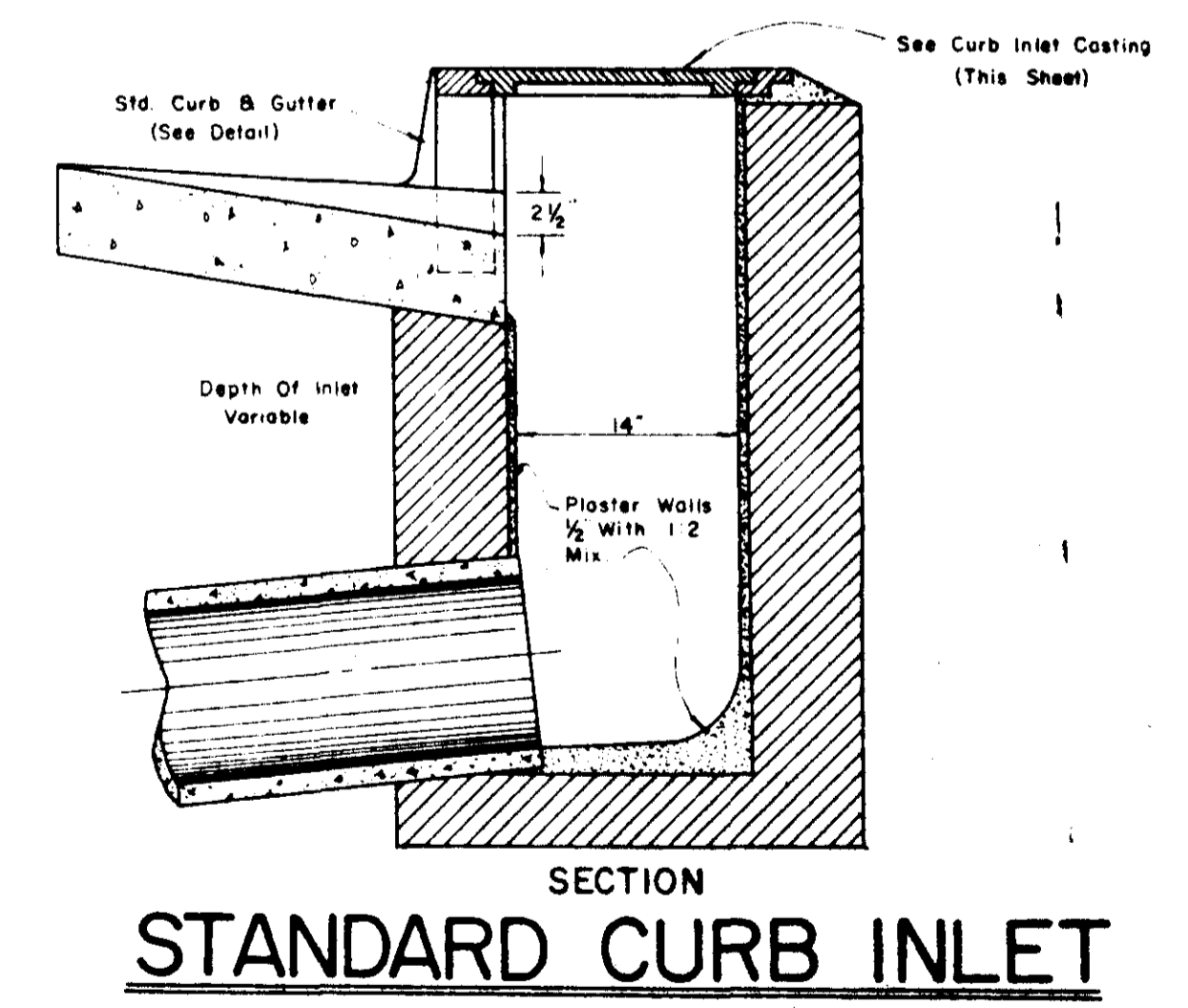


GRATE INLET & COVER DETAILS

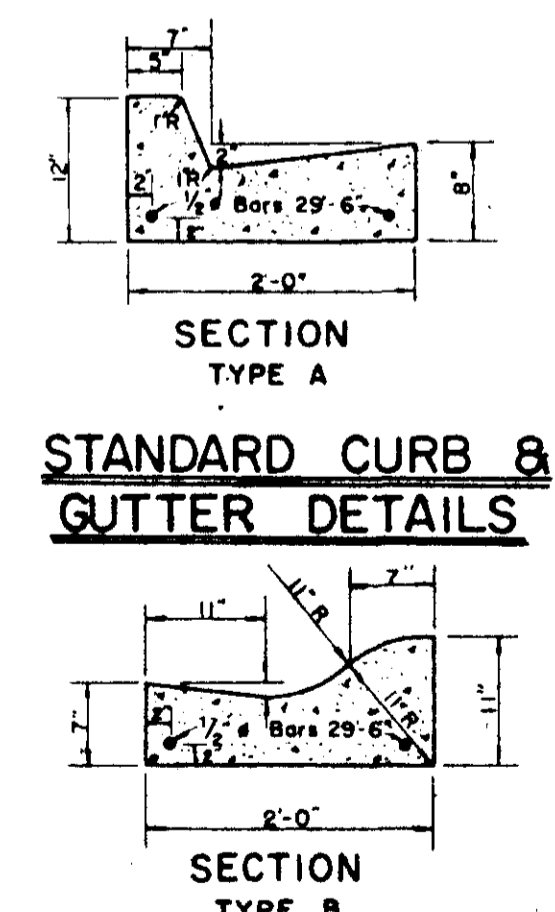


REDUCTION FOR EACH ADDITIONAL PIPE OPENING	QUANTITIES FOR AREA INLET				QUANTITIES & DIM FOR BAR GRATE					
	CONC	STEEL	CONC	STEEL	CONC	STEEL	NO. SPANS	WT. LBS.		
0.36	1.5	2.47	0.850	41	2.201	13	2.372	1.174	2	118
0.49	1.8	2.687	0.708	44	2.210	13	2.812	1.314	2	134
0.66	2.1	2.937	0.799	48	2.221	14	2.110	1.154	2	130
0.85	2.4	3.208	0.884	57	2.231	14	2.172	1.154	2	140
1.10	2.7	3.500	1.000	61	2.244	14	3.202	1.154	3	188
1.35	3.0	3.771	1.107	74	2.255	16	3.9	1.3	3	178
1.67	3.6	4.292	1.310	88	2.275	17	4.312	1.370	3	197
2.03	4.2	4.893	1.525	97	2.286	18	4.612	1.384	4	229
2.29	4.8	5.375	1.783	112	2.318	18	5.112	1.438	4	249
4.27	5.4	5.958	2.071	141	2.343	21	6.112	1.438	4	272
3.24	6.0	6.500	2.381	160	2.364	21	6.812	1.438	5	300

AREA INLET DETAILS
(NON-TRAFFIC)



STANDARD CURB INLET



STANDARD CURB & GUTTER DETAILS

DESIGNED	SCALE: NONE	LESTER ENGINEERING COMPANY	
DRAWN: T.B.	DRWG. NO. 72-602	CONSULTING ENGINEERS	
APPROVED:		JACKSON, MISSISSIPPI	
DATE:			
REV. NO.	DATE	NATURE OF REVISION	BY CHKD. APPD.
STANDARD STORM SEWER APPURTENANCES			SHEET NO. 16