

AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN

TLE SHEET

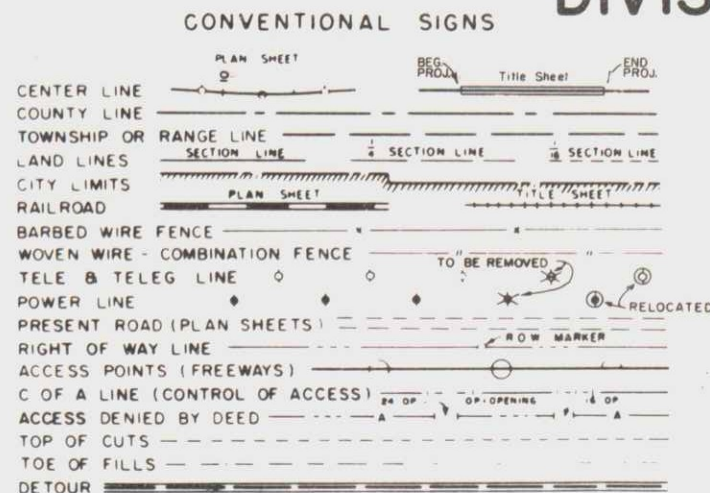
STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS—STATE OF COLORADO

R.O.W. Purchased under
Project No. F006-9(1) &
BF 010-1(1)

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	U 006-9(2)	1

AS CONSTRUCTED

INDEX OF SHEETS REVISED DATE 12-21-72

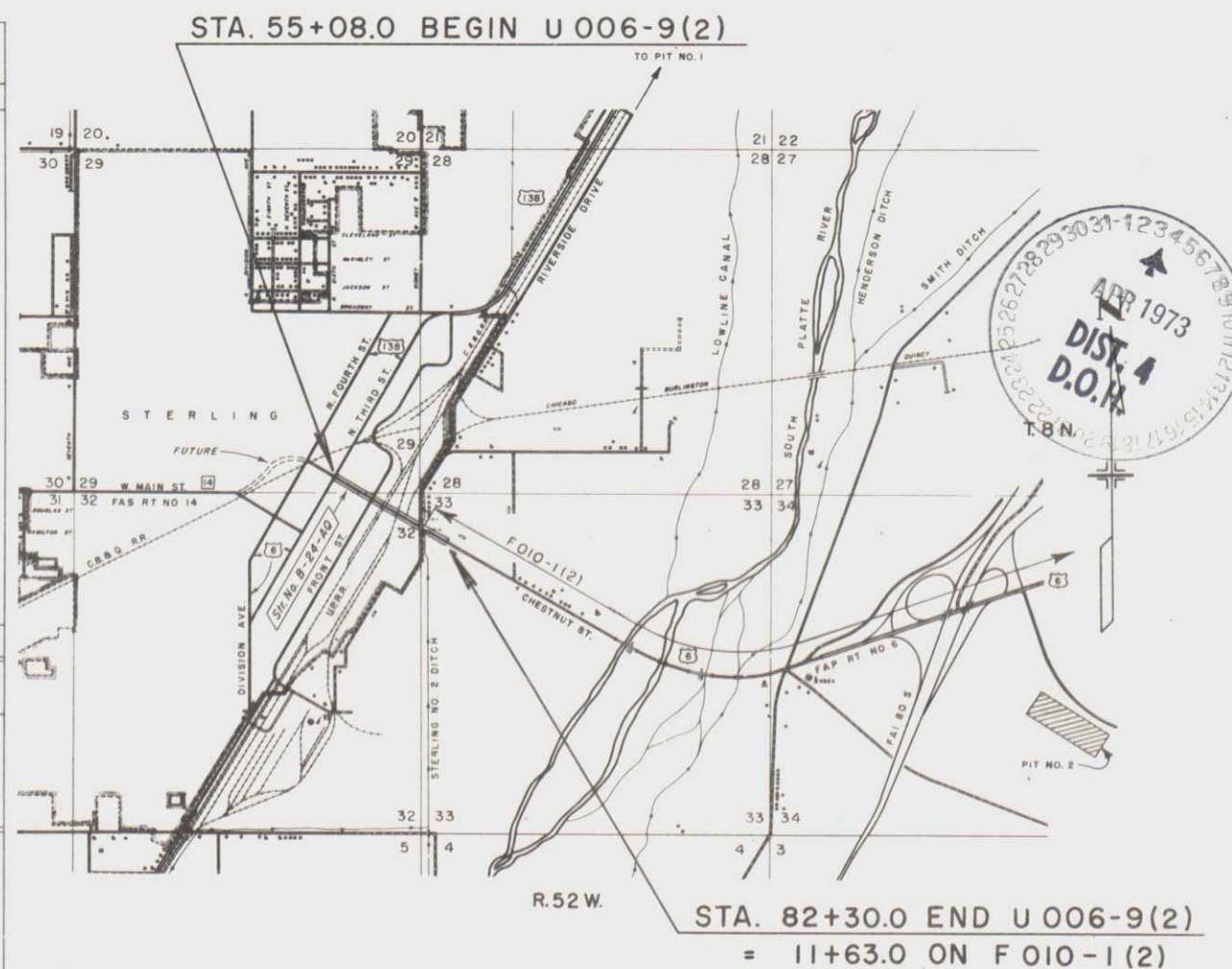


PLAN AND PROFILE OF PROPOSED FEDERAL AID PROJECT NO. U 006-9(2) STATE HIGHWAY NO. 6 LOGAN COUNTY

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 50 FT.
ON PROFILE, 1 IN. = 50 FT. HORIZONTAL
1 IN. = 5 FT. VERTICAL
GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
Contractor High Plains Const. Co.
Res. Eng. L.J. Van Kalkeren
Started July 26, 1971
Completed Dec. 21, 1972

TABULATION OF LENGTH AND DESIGN DATA

STATION	ROADWAY	MAJOR STRUCTURE	LOADING
	LIN. FT.	LIN. FT.	
55+08 BEGIN U 006-9(2)	329.8		
58+37.8		1213.4	
70+51.2 STERLING CITY LIMITS = -0+15.8 BEGIN FOIO-1(2)		295.6	HS-20-44
73+46.8	883.2		
82+30.0 END U 006-9(2) = 11+63.0 ON FOIO-1(2)			
TOTALS	1213.0	1509.0	
SUMMARY			
	LIN. FT.	MILES	
ROADWAY	1213.0	0.230	
MAJOR STRUCTURE	1509.0	0.286	
TOTAL (NET & GROSS LENGTH)	2722.0	0.516	
DESIGN DATA			
MAXIMUM DEGREE OF CURVE	1°00'		
MAXIMUM GRADE	6.00 %		
MINIMUM SSD HORIZONTAL	>1300 FT.		
MINIMUM SSD VERTICAL	375 FT.		
MAXIMUM DESIGN SPEED	50 MPH		
1989 DESIGN TRAFFIC VOLUME			
ADT	8540	5660	
DHV	940	620	



SHEET NO.	TITLE PAGE, SKETCH MAP & TABULATION OF LENGTH AND DESIGN	
2 - 4	TYPICAL SECTIONS AND GENERAL NOTES	
5 - 9	SUMMARY OF APPROXIMATE QUANTITIES	
10 - 11	STRUCTURE QUANTITIES	
12	TOPSOIL, TREATED BASE & SURFACING, AND CURB, GUTTER & SIDEWALK TABULATION	
13	STORM SEWER, DELINEATOR AND REMOVAL OF STRUCTURES & OBSTRUCTION TABS	
14	SUMMARY OF EARTHWORK QUANTITIES, WETTING REQUIREMENTS AND DETAIL OF BRIDGE RUNDOWN	
15	LIGHTING TABULATION AND TRAFFIC SIGNAL QUANTITIES	
16	STANDARD M-604-AA, CONCRETE INLET TYPE 3 & 3 DOUBLE, (REVISED FOR THIS PROJECT)	
17	PIT LOCATION MAP	
18 - 23	LANDSCAPING PLANS	
24	TRAFFIC SIGNAL PLAN	
25	TRAFFIC SIGNAL DETAILS	
26 - 29	DETAILS OF CBC EXTENSIONS, STA. 70+65.00	
30 - 99	DETAILS OF BRIDGE PLANS	
100	DETAILS OF INTERSECTION, STA. 70+	
101-105	ALIGNMENT PLAN AND PROFILE	
106-107	UTILITY & LIGHTING PLAN	
108-124	CROSS SECTIONS	
M-203-B	APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING	4-27-70
M-206-AA	EXCAVATION AND BACKFILL FOR STRUCTURES	(2 SHEETS) 3-1-71
M-500-A	LETTERS AND FIGURES FOR STRUCTURE NUMBERS	7-1-65
M-601-C	WINGWALLS FOR CONCRETE BOX CULVERTS - 4:1 SIDE SLOPES	(2 SHEETS) 10-25-68
M-603-M	METAL CULVERT PIPE - H-20 LOADING	2-11-71
M-603-RC	REINFORCED CONCRETE PIPE	3-1-71
M-604-AB	CONCRETE INLET, TYPE 13	4-15-71
M-604-B	CONCRETE INLETS - TYPES A AND B	3-28-66
M-604-D	STEPS FOR MANHOLES AND INLETS	7-23-68
M-604-E	MANHOLES	4-20-71
M-607-A	WIRE FENCES AND GATES	(2 SHEETS) 9-15-69
M-609-A	CURBS AND GUTTERS	5-7-71
M-612-A	MARKER POSTS AND BENCH MARKS	5-7-71
M-612-C	DELINEATORS	(2 SHEETS) 7-11-68
M-613-AA	HIGHWAY LIGHTING	4-9-71
M-614-A	TIMBER BARRICADES	4-23-69
M-614-IC	STANDARD CONSTRUCTION IDENTIFICATION SIGNS	(2 SHEETS) 9-25-70
M-614-RB	STANDARD RAILROAD WARNING SIGNS	8-22-68
M-614-TB	TRAFFIC SIGNING FOR HIGHWAY CONSTRUCTION	(3 SHEETS) 12-24-68

DIVISION OF HIGHWAYS
STATE OF COLORADO

Final Approval As
Constructed Plans
District Construction Engineer
2/5/73
Date

DIVISION OF HIGHWAYS

APPROVED
Chief Engineer
6-7-71
DATE

"As Constructed NO Revisions"
Sheet 2, 4, 16-17, 20, 22, 24-26,
28-30, 34-44, 46-66, 68-70,
74-77 and 83-77

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

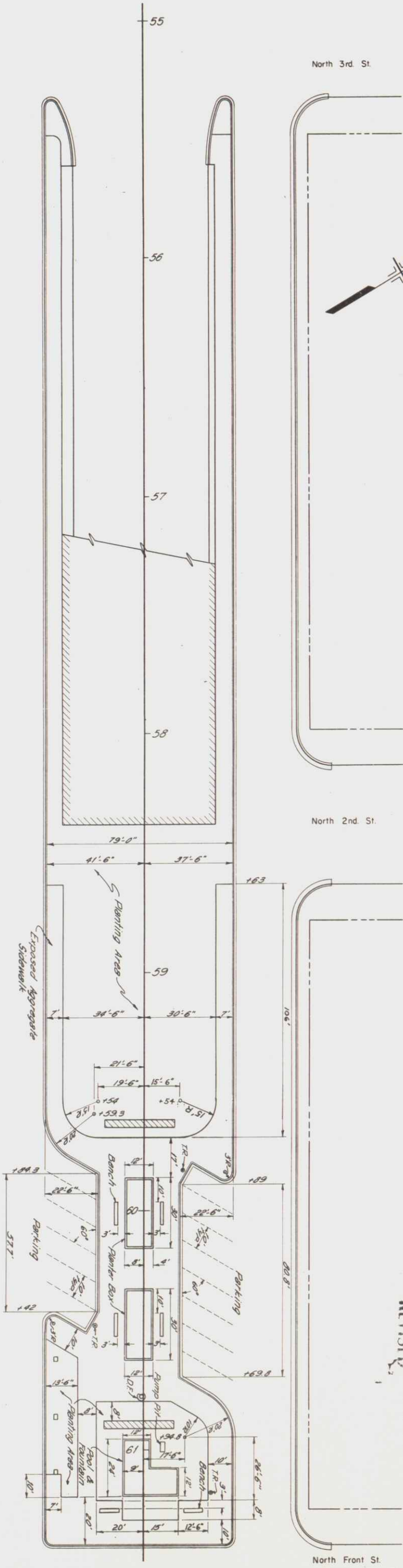
APPROVED
DATE
DIVISION ENGINEER

M.E.V.

PLOT PLAN

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO. ROAD	U006-9(2)	18	

AS CORRECTED
REVISED 12-21-72



Note: TR - Trash Receptacle
DR - Drinking Fountain

- 3 Trash Receptacles - With ca. 400-lb. capacity, w/center base mounting, color cinnamon (National Receptacle Co., Lawson Co. or equal)
- 1 Drinking Fountain - Howe Model #30 smooth polished finish color terra cotta beige (Murdock Co., Kahler Co. or equal)
- 2 Planter Boxes - Finish as noted in specifications
- 1 Fountain Pool - Finish as noted in specifications
- 6 Benches - Precast concrete finish as noted in specifications

MISCELLANEOUS QUANTITIES

- * Unclassified Excavation - 500 cu yd (Incl. in Roadway Quantities)
- * Structure Foundation - 100 cu yd
- * Structure Backfill (Class 2) - 25 cu yd
- * Concrete Sidewalk (Exposed Aggregate) - 353 sq ft

* Quantities carried to Structure Quantities

PLOT PLAN

SPRINKLER SYSTEM

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	U006-9(2)	19	

LANDSCAPING PLANS

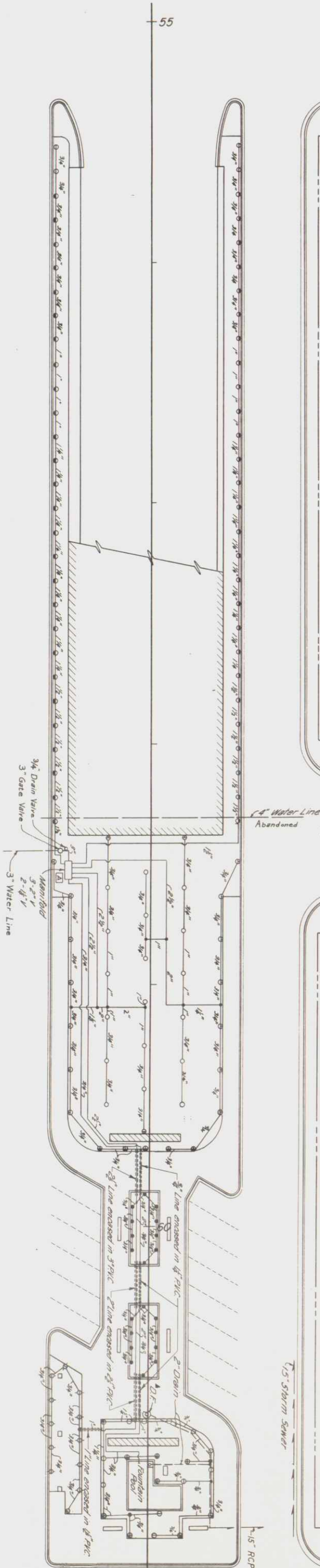
12-21-72

North 3rd St.

North 2nd St.

North Front St.

South Front St.



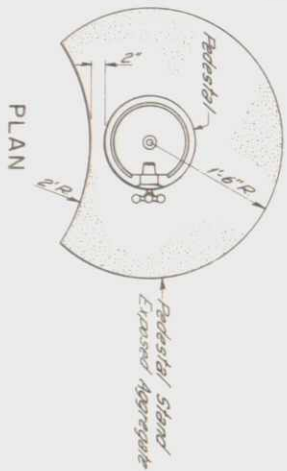
SPRINKLER SCHEDULE

ITEM NO	SYMBOL	* DESCRIPTION	UNIT	PATTERN	GPM	PSI	SPACING FT.	RADIUS FT.	FINAL	TOTAL
623	○	<u>SHRUBBERY - SPRAWL</u>								
623	○	Rain Bird 2400 ELT-H	Each	180°	1.03	20	10	8	5.4	56
623	○	Rain Bird 2400 ELT-H	Each	180°	1.35	35	10	10	15	14
623	○	Rain Bird 2400 ELT-H	Each	180°	0.90	15	12	7	7	8
623	○	Rain Bird 2400 ELT-F	Each	360°	2.30	35		10	6	1
623	○	Rain Bird 2400 ELT-F	Each	90°	0.97	35		10	20	20
623	○	Rain Bird 171-L4-H	Each	180°	0.80	15	6	6	20	20
623	○	Rain Bird 171-L4-H	Each	180°	1.10	25	10	6	11	11
623	○	Rain Bird 171-L4-Q	Each	90°	0.35	20		6	11	11
623	○	Rain Bird 2400 F	Each	360°	3.80	30	18	14	18	14
623	○	Rain Bird 2400 H	Each	180°	2.50	30	18	14	17	14
623	○	Rain Bird 2400 Q	Each	90°	1.10	15		11	0	2
619		3/4" Plastic Pipe	Lin Ft						1417	1899
619		1" Plastic Pipe	Lin Ft						206	231
619		1 1/2" Plastic Pipe	Lin Ft						315	344
619		2" Plastic Pipe	Lin Ft						223	244
619		2 1/2" Plastic Pipe	Lin Ft						141	142
619		3" Plastic Pipe	Lin Ft						316	473
623		3" Drain Valve	Each						2	1
623		3" Automatic Control Valve	Each						2	2
623		2" Automatic Control Valve	Each						3	3
623		2" Gate Valve	Each						1	1
623		6 Station Controller	Each						1	1

Note: All model numbers listed are by Rainbird to denote function only.

* Rainbird, Buckner, Manly or as approved equal

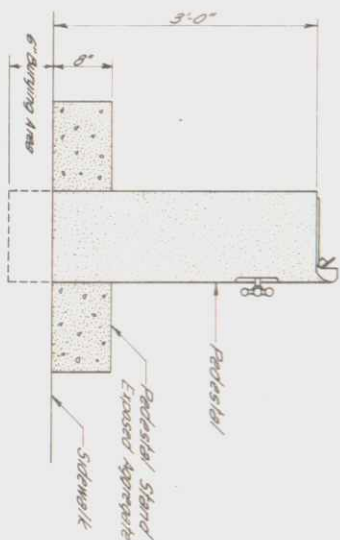
PLAN



Note: Casing shall run 1' beyond edge of sidewalk and/or footing of planter boxes.

ELEVATION

DETAIL OF DRINKING FOUNTAIN

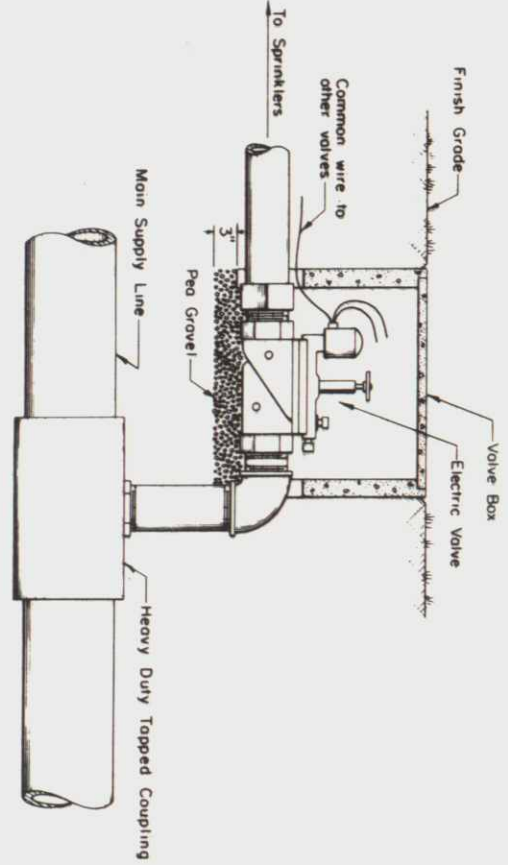


SPRINKLER SYSTEM

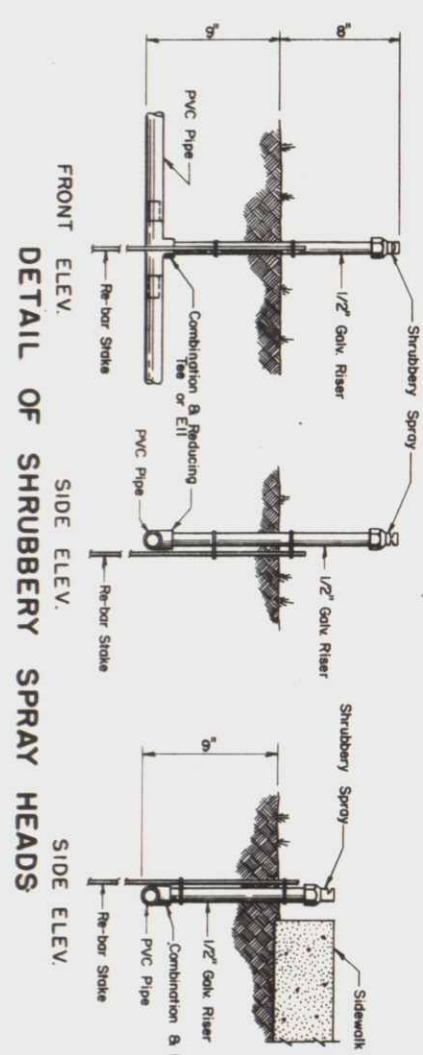
SPRINKLER DETAILS

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	U006-9(2)	20	

LANDSCAPING PLANS

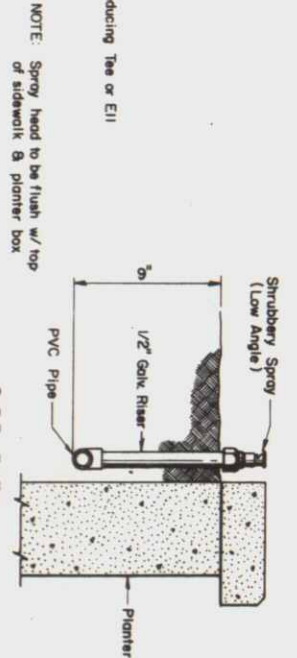


DETAIL OF AUTOMATIC VALVE

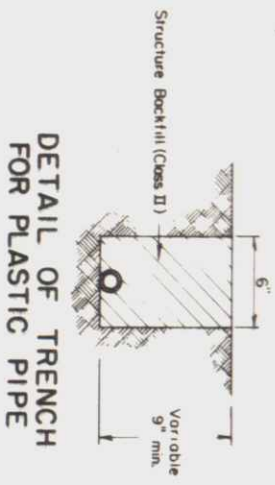


FRONT ELEV. SIDE ELEV. DETAIL OF SHRUBBERY SPRAY HEADS

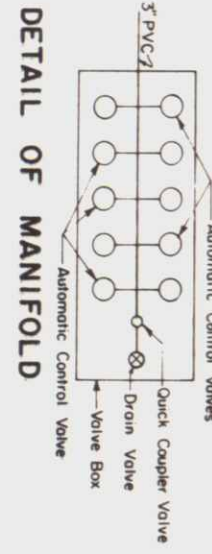
DETAIL OF SHRUBBERY SPRAY PLANTER BOX



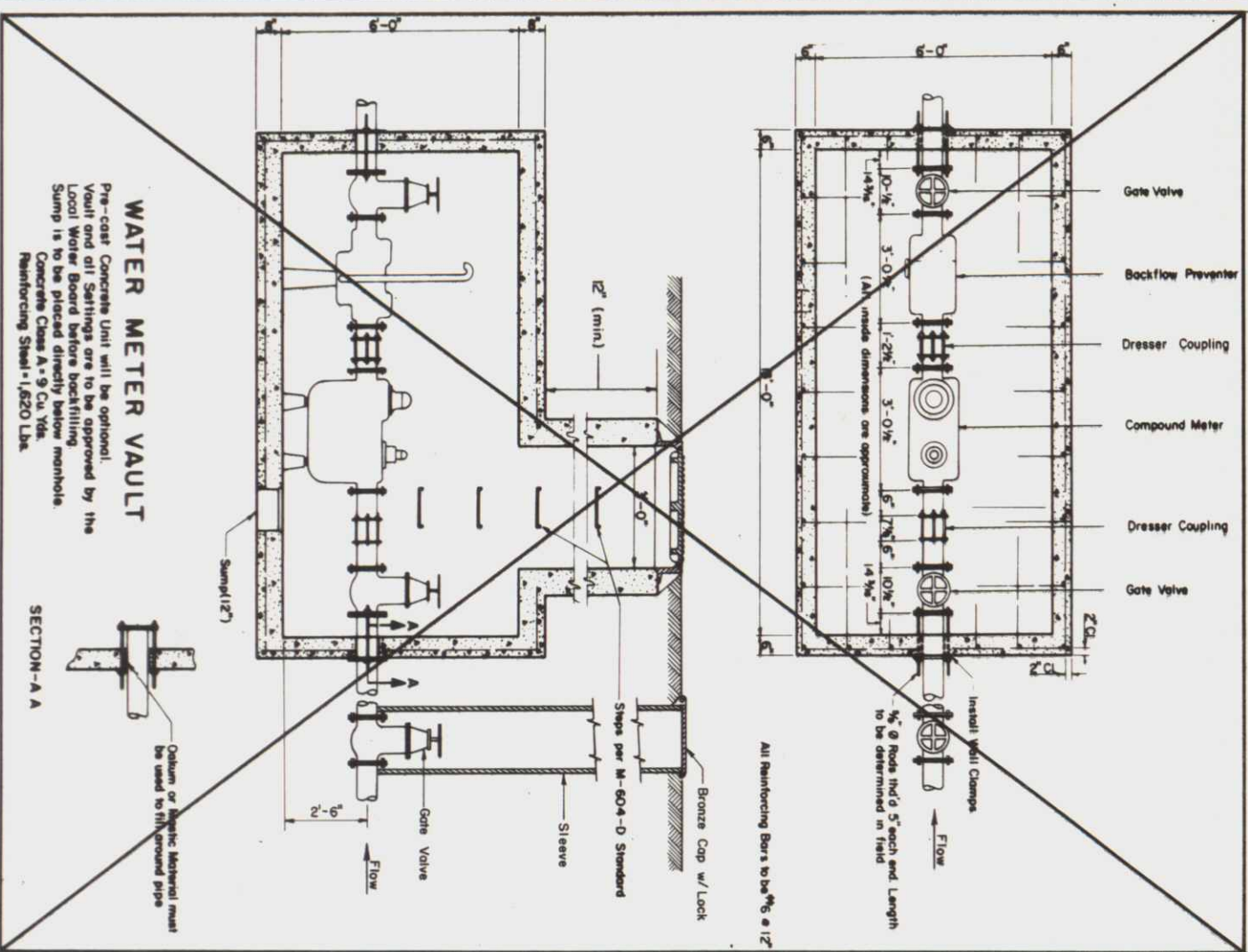
NOTE: Spray head to be flush w/ top of sidewalk & planter box



DETAIL OF TRENCH FOR PLASTIC PIPE



DETAIL OF MANIFOLD



WATER METER VAULT

Pre-cast Concrete Unit will be optional. Vault and all Settings are to be approved by the Local Water Board before backfilling. Sump is to be placed directly below manhole. Concrete Class A-9 Cu Yds. Reinforcing Steel - 1,620 Lbs.

SECTION-A-A

SPRINKLER DETAILS

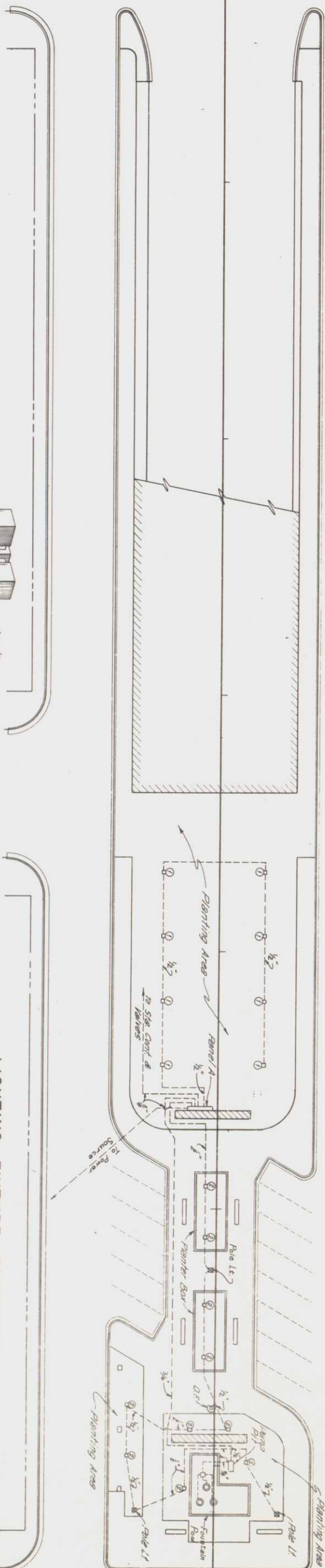
Original

LIGHTING PLAN
(Work by Public Service Co.)
(Work by Force Account)

(2-1) 6-16-71 MEV Public Service Co.

PROJECT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	CO. 06/02	U 006-9 (2)	21	

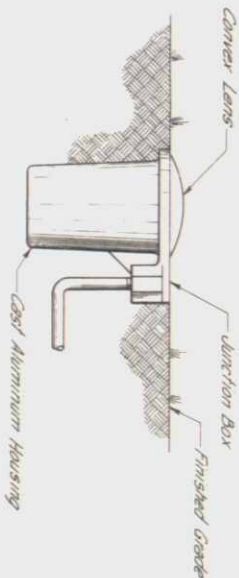
LANDSCAPING PLANS
AS CORRECTED
REVISED 12-21-72



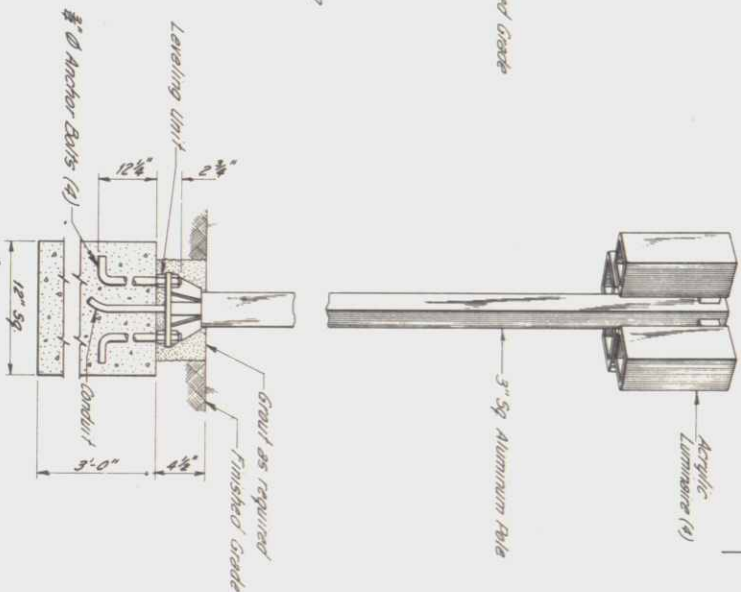
LIGHTING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION	UNIT	TOTAL
⊙	AREA LIGHTING *Kim Lighting *3010 Recessed up light 100 W. R type Flood	Each	8
⊙	*Kim Lighting *3010 Recessed up light 200 W. R type Flood	Each	10
⊙	*Kim Lighting *417 Luminaire & Diffusers 200 W each diffuser	Each	3
⊙	*Kim Lighting PD-12 3-Sq Pole w/convertible pole base Color - Dark Bronze	Each	2
⊙	*Kim Lighting PD-12 3-Sq Pole w/convertible pole base Color - Dark Bronze	Each	1
⊙	FOUNTAIN *Kim Lighting F-220 Underwater Fountain Light Base mounted 150 W. R40 Lamp	Each	3
⊙	*4" Electrical Conduit	Lin Ft	122
⊙	*4" Electrical Conduit	Lin Ft	582

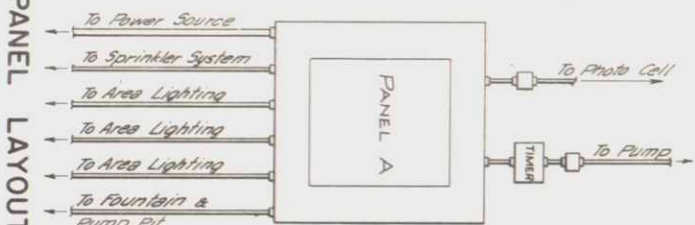
**DETAIL OF
RECESSED UP LIGHT**



DETAIL OF POLE & LUMINAIRE



PANEL LAYOUT



Note: Panel A shall be of the circuit breaker type, 125 A, 100/250 V, 1P, 3 wire system, surface mount, with plug in type breakers, tamper proof locking door.

LIGHTING PLAN



FOUNTAIN POOL SCHEDULE

* Kim Lighting Co., Penn Township & Lighting Co.
Rain Jet Corp. or an approved equal.

PLANTING PLAN

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	U 006-9(2)	23	

LANDSCAPING PLANS

AS

12-21-72

North 3rd St.

North 2nd St.

North Front St.

South Front St.

PLANT LIST

ITEM NO.	BOTANICAL NAME	COMMON NAME	UNIT	SIZE	SPACING	CONDITION	TOTAL
214	Acer circinnaleum	Vine Maple (multi trunk)	Each	6"-8"	18"oc	* B & B	5
214	Hedera helix	English Ivy	Each	1 1/2' #1		3" Band or Pot	10,800
214	Morone aquifolium	Oregongrape	Each	24"		5gal. Container	61
214	Nandina domestica	Nandina	Each	18"-24"		5gal. Container	41
214	Prunus laurocerasus	Label Common Laurelherry	Each	24"	3'-4'oc	5gal. Container	62
214	Tulipa red emperor	Red Emperor Tulip	Each		6"oc		300
214	Crocus susianus	Clothbold Crocus	Each		6"oc		200
214	Planter Soil Mix		Cu Yd				48
206	Filter Material (Class C)		Cu Yd				20 22
207	Topsoil		Cu Yd				800 190

Note: Plants shall be placed carefully with respect to sprinkler heads so as not to interfere with sprinkler lines.

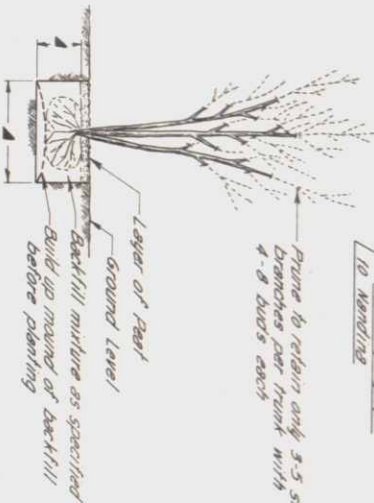
24 Cu Yds Planter Soil Mix and 20 Cu Yds Filter Material (Class C) per Planter Box.

Tulip and Crocus bulbs to be planted in Planter Boxes only.

* B & B - Balled and Burlapped

DETAIL OF TREE PLANTING

1 Variable - See Planting Specifications



PLANTER

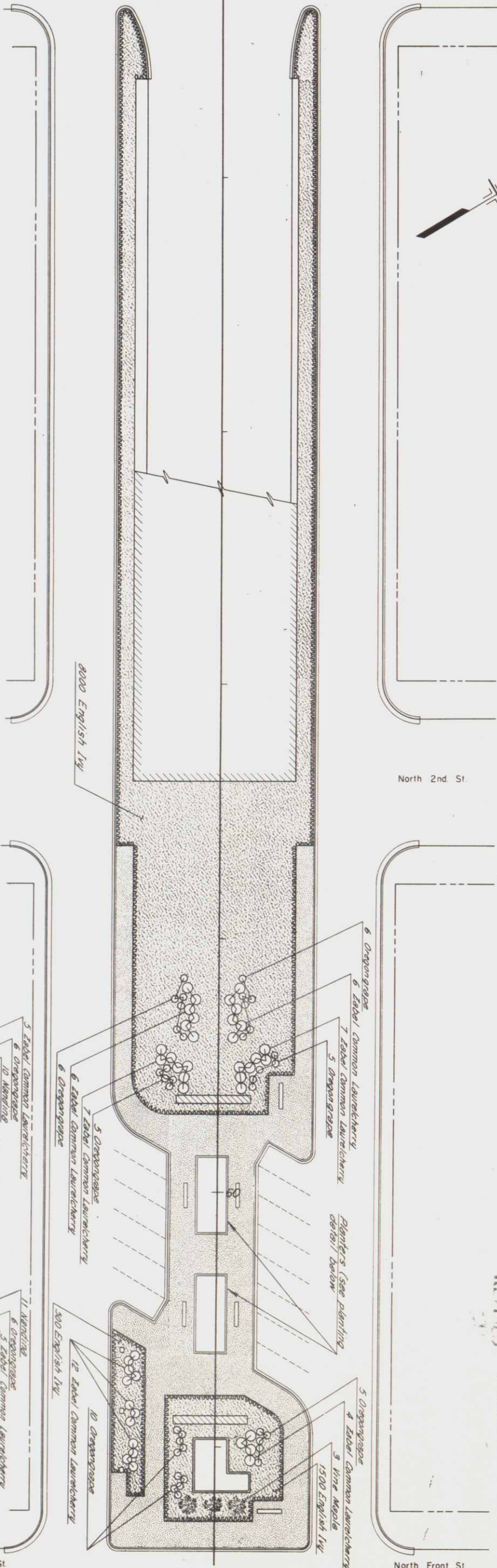


DETAIL OF BULB PLANTING

TULIP

CROCUS

PLANTING PLAN



LEGEND
Curb & gutter Type 2
Section I B
Section II B
Storm Sewers
Existing
New
Manhole
Inlet
Sewer Line

NOTE: All Water & Sewer Lines are City of Sterling
All Gas Lines are Iowa Gas & Electric
All underground power Lines are P.S. Co.
All Telephone Lines are M.S.T. & T. Co.

S.E. 1/4 SEC. 29
R. 52 W., T. 8 N.

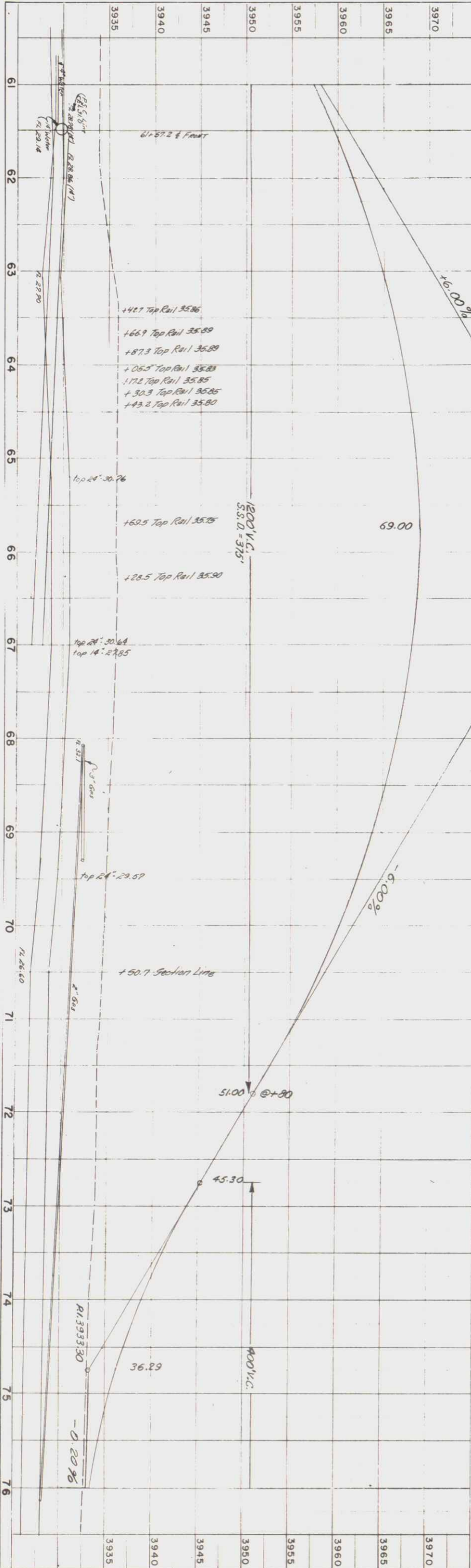
STA. 55+08.0 BEGIN U006-9 (2)

55+48 $\approx$ ~~Proposed~~ Inlet #9, Type 3 Rt. with 15"x38' RCP to Inlet #10
55+48 $\approx$ ~~Proposed~~ Inlet #10, Type 3 Rt. 15"x36" with 15"x48' RCP to existing manhole at 55+20
57+98 $\approx$ ~~Proposed~~ Inlet #7, Type 3 Rt. with 15"x78' RCP to Inlet #5
58+38 $\approx$ ~~Proposed~~ Street Approach Lt. & Rt.
58+78 $\approx$ ~~Proposed~~ Inlet #5, Type 3 Rt. with 15"x130' RCP to Inlet #6
58+ to 61+ $\approx$ ~~Proposed~~ Landscaping in Median Area (Details on Sh. Nos. 18-23)
58+ to 73+ $\approx$ ~~Proposed~~ Overpass Sh. No. B-24-AQ (Details on Sh. Nos. 30-99)
60+04 $\approx$ ~~Proposed~~ Alley Approach Lt. & Rt.

55+ $\approx$ ~~Proposed~~ Traffic Signalization (Details on Sh. Nos. 24-25)
55+20 $\approx$ ~~Proposed~~ Manhole #2, Slab Base, 66' Lt. on existing 36" Storm Sewer
55+48 $\approx$ ~~Proposed~~ Inlet #11, Type 3 Lt. with 15"x34' RCP to Inlet #12
55+48 $\approx$ ~~Proposed~~ Inlet #12, Type 3 Lt. 18"x24" with 18"x48' RCP to Manhole #2 at 55+20
56+74 $\approx$ ~~Proposed~~ Alley Approach Lt. 15"x18' RCP Inlet #12
57+98 $\approx$ ~~Proposed~~ Inlet #8, Type 3 Lt. with 18"x246' RCP to Inlet #12
58+32 $\approx$ ~~Proposed~~ Manhole #1, Slab Base Lt. 18"x32' RCP to Inlet #8, Special Inlet for Bridge Drain Lt. & Rt. (Details Sh. Nos. 65-66) 12" Bit Coated CSP Rundown from Bridge Drains to Manhole #1 (Detail on Sh. No. 14)
58+78 $\approx$ ~~Proposed~~ Inlet #6, Type 3 Lt. with 18"x44' RCP to Manhole #1 at 58+32

U006-9 (2)
101
12-21-72





61+25 $\hookrightarrow$ Reqd. Inlet #2,
Type 3, Rt. with 15"x130'
RCP to Inlet #4

61+25 $\hookrightarrow$ Reqd. Inlet #4
Type 3, Lt. with
18"x244' RCP to Inlet #6

61+40 to 63+40 $\hookrightarrow$ Reqd.
Fr. Rd. Transition with
Street Approach Lt. & Rt.

61+96 $\hookrightarrow$ Reqd. Inlet #1
Type 3 Rt. with 15"x66'
15"x68' RCP to Inlet #2

61+96 $\hookrightarrow$ Reqd. Inlet #3,
Type 3 Lt. with
15"x68' RCP to Inlet #4

68+ to 71+ $\hookrightarrow$ Reqd. Inlet #13,
Type 13 Lt. with 18"x50' CSP
to Canal, Rd. Approach
Lt. & Rt., Reqd. Road approach
inlet as directed

70+65 $\hookrightarrow$ Remove Wingwalls,
Headwalls & Sidewalks Lt. & Rt.
Extend 12'x3' CBC 62' Lt. &
85' Rt. (4:1 Wingwalls) Ditch
Check with Access Gate Lt. &
Slide Headgate Lt.
(Details on Sh. Nos. 26-29)
Road Approach to Riverside
Drive Lt.

70+ to 72+ $\hookrightarrow$ Reqd. 21"x246'
RCP Irrigation Outlet from
Headgate in CBC to Lt. of Sta. 72+80

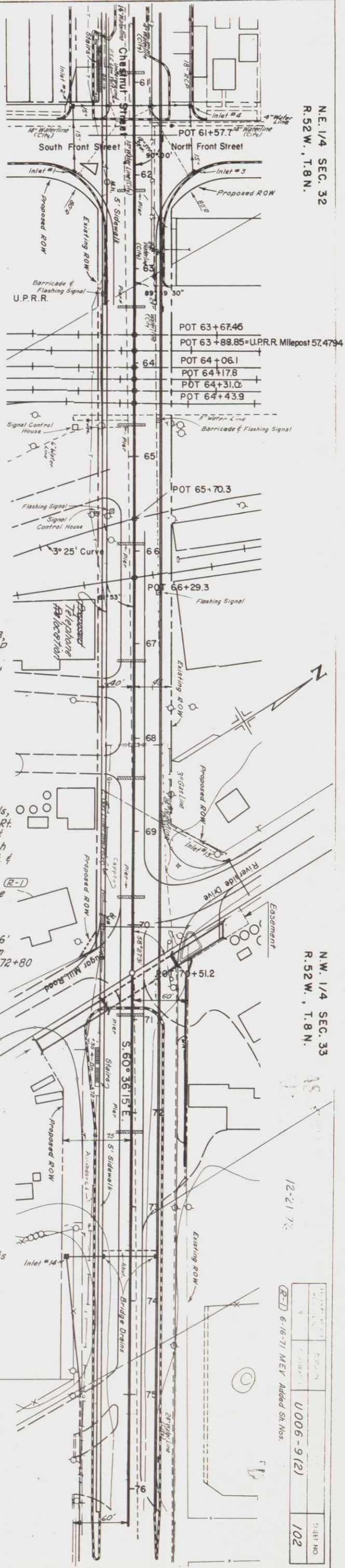
71+00 $\hookrightarrow$ Reqd.
Road Approach Lt.

72+50 $\hookrightarrow$ Reqd.
Road Approach Lt.

73+24 to 74+85 $\hookrightarrow$ Remove
150' Lin Ft. of Fence Rt.
Reqd. 165' Lin Ft. Barbed
Wire Fence, 2 Corner and
Line Stake Posts

73+53 $\hookrightarrow$ Reqd. Special Inlets
for Bridge Drain Lt. & Rt.
(Details on Sh. Nos. 65-66)
12" Bit. Coated CSP Rundown
from Bridge Drains to Inlet
#14, Type A Rt.
(Details on Sh. No. 14)

73+53 to 74+95 $\hookrightarrow$ Reqd.
21"x140' CSP Outlet from
Type A Inlet Rt. to existing
21" CSP Side Drain Rt. of
74+95



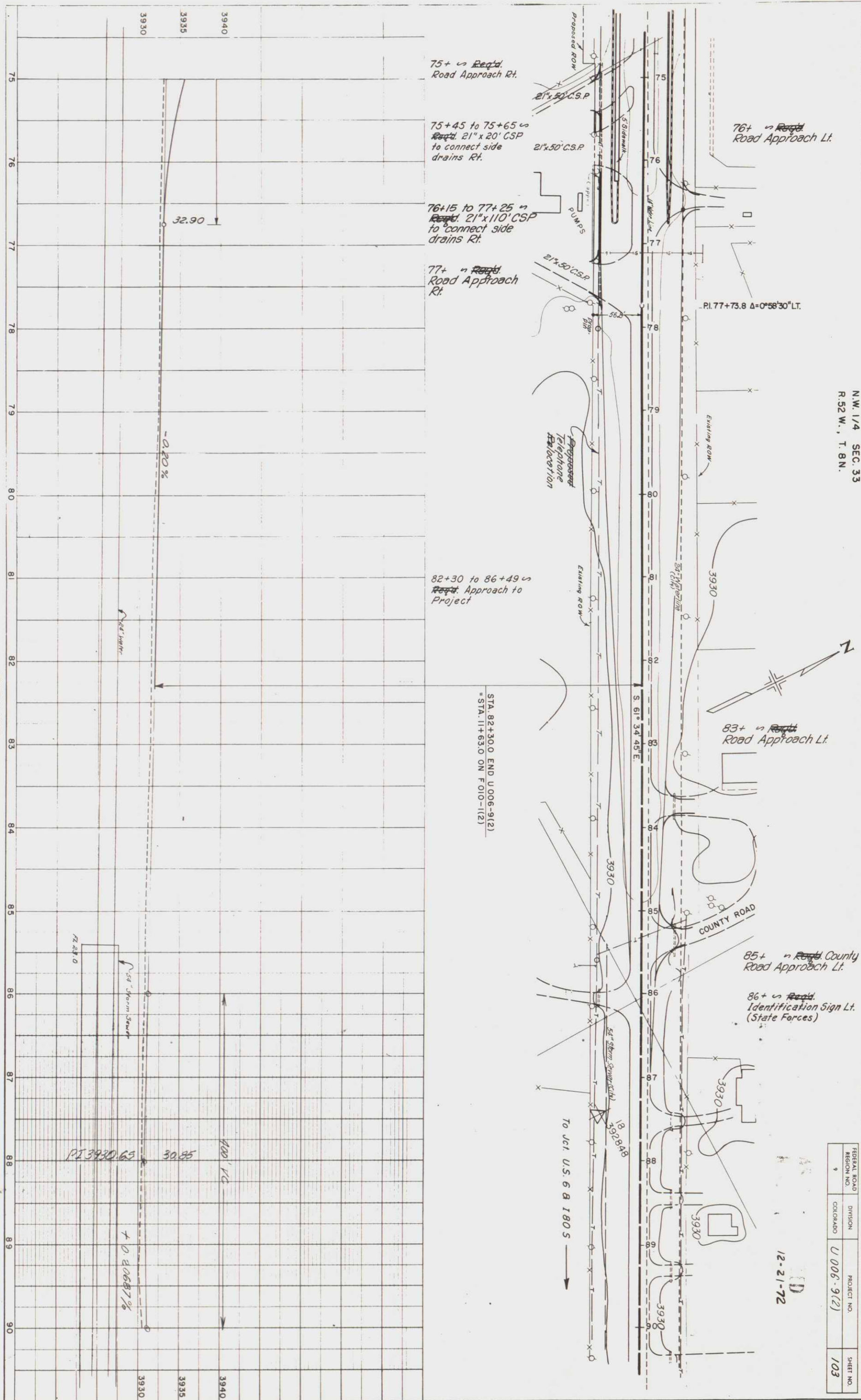
N.E. 1/4 SEC. 32
R.52W., T.8N.

N.W. 1/4 SEC. 33
R.52W., T.8N.

12-21-76

PROJECT NO.	U006-9121
SHEET NO.	102

(2-1) 6-16-71 MEV Added Sh. Nos.



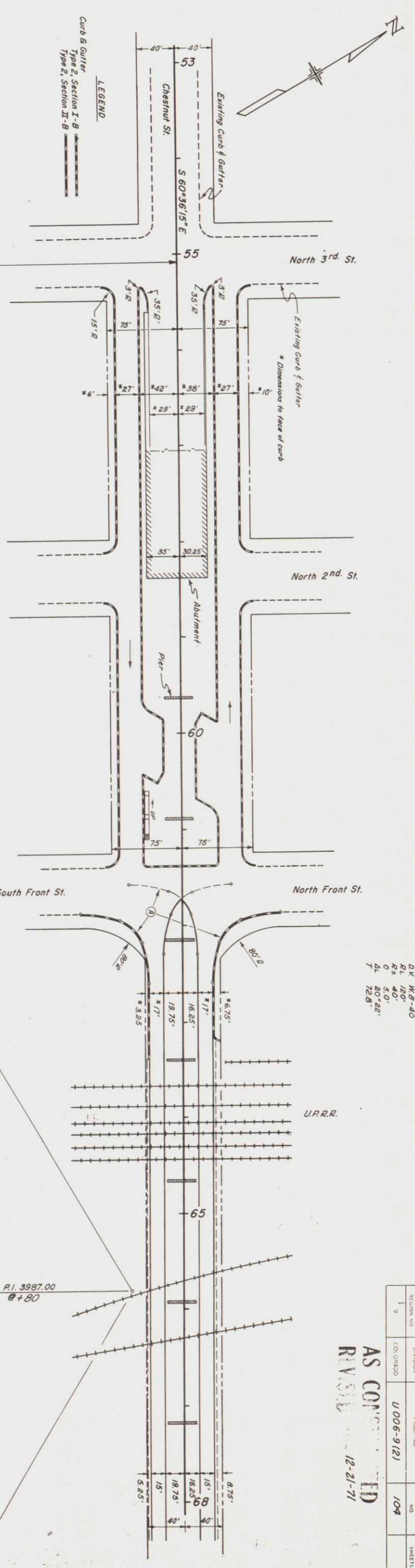
N.W. 1/4 SEC. 33
R. 52 W., T. 8 N.

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
9	COLORADO	U 006-9(2)	103

12-21-72

PLAN	NOTED	ALIGNED	CHECKED
NOTE BOOK	NO.	BY	DATE

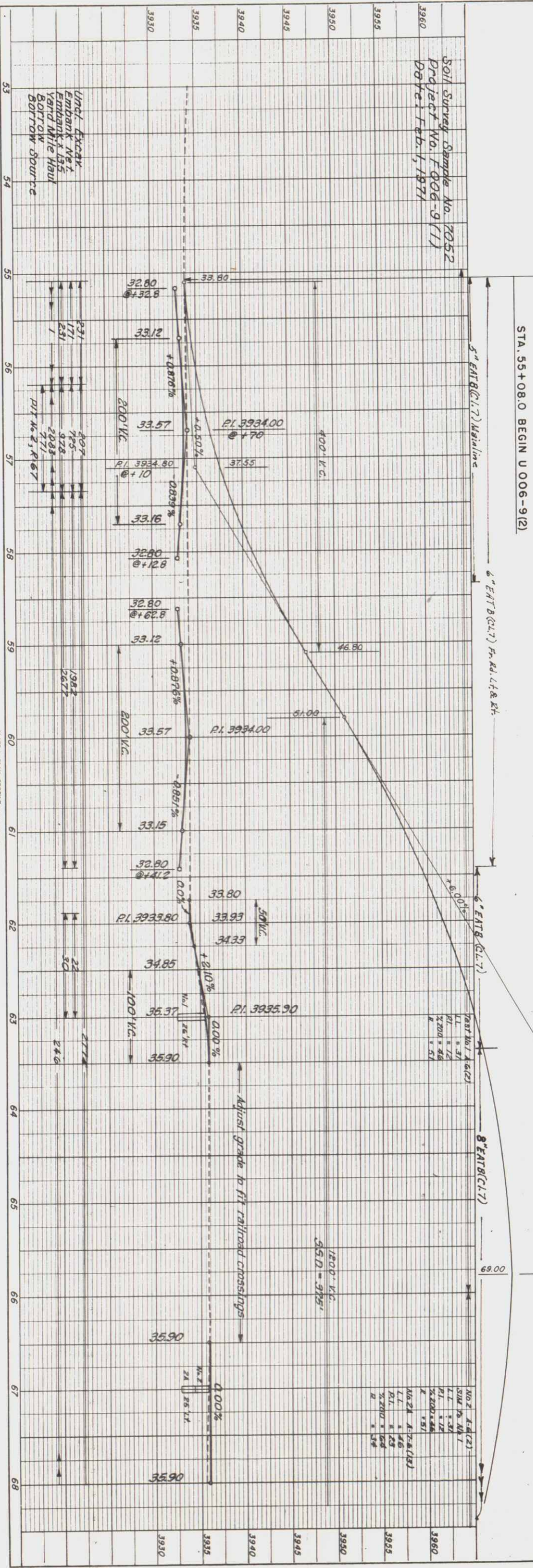
PROFILE	NOTED	GRADED	CHECKED
NOTE BOOK	NO.	BY	DATE



②
Δ V M.B.-40
R.L. 120'
R.S. 40'
O 5.0'
Δ L 20' 22"
7 12.8'

AS COMPLETED
REVISED 12-21-71

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.	TOTAL SHEETS
9	U 006-9(2)	104		



NO. 2 A-4(2)
S.I.M. 75 M.T.
L.I. 1.30
P.I. 1.12
% 200' 48"
R 531'
NO. 24 A-7-A(12)
L.I. 1.46
P.I. 1.29
% 220' 128"
R 514'

PLATE 1 - PLAN, PROFILE, & ELEVATION

