

STATE DEPARTMENT OF HIGHWAYS DIVISION OF HIGHWAYS - STATE OF COLORADO

NEW & REVISED STANDARD PLANS

PLAN AND PROFILE OF PROPOSED

FEDERAL AID PROJECT NO. IR 25-3(83)

STATE HIGHWAY NO. 25

M-606-12 GUARD RAIL, TYPE 4, CONCRETE BARRIER (9 SHEETS)

2-18-83

LARIMER COUNTY
AS CONSTRUCTED PLANS
RETURN TO DIST. 4 DESIGN

As Constructed

FEDERAL ROAD DISTRICT NO.	DIVISION	PROJECT NO.	SHEET NO.
VIII	COLORADO	IR 25-3(83)	1

NO REVISIONS	6-23-87	REVISED	VOID
AS CONSTRUCTED			

1. TITLE SHEET, PROJECT LOCATION MAP, LENGTH AND DESIGN DATA
2. STANDARD PLANS LIST
- 3-4. TYPICAL SECTION & GENERAL NOTES
- 5-10. SUMMARY OF APPROXIMATE QUANTITIES
11. STRUCTURE QUANTITIES
12. TABULATION OF CONCRETE PAVEMENT
13. H&P SURFACING PLAN, CURB (MEDIAN) (SPECIAL) AND FENCE TABULATIONS
14. SUMMARY OF EARTHWORK QUANTITIES
15. TABULATION OF GUARD RAIL
- 16-17. TABULATION OF DELINEATORS
18. TABULATION OF EMBANKMENT PROTECTORS & TABULATION FOR THE REMOVAL OF OLD EMBANKMENT PROTECTOR ITEMS
19. DETAIL OF GUARD RAIL REFLECTOR TAB, AND GUARD RAIL TYPE 4 (CAST IN PLACE)
20. DETAIL OF TEMPORARY GUARD RAIL AND CONCRETE BARRIER AT STRUCTURES & DETAILS OF FOOTER SUPPORTS
21. DETAIL OF INLET SPECIAL & DETAIL OF CURB TYPE 2 (SECTION B) (AS EMBANKMENT PROTECTION)
22. PARK 'N RIDE DETAIL AND QUANTITIES
23. STANDARD M-412-1 (REVISED THIS PROJECT ONLY)
24. TABULATION OF SLAB REMOVAL AND REPLACEMENT
25. DETAILS OF CONCRETE REMOVAL AND PATCHING
26. DETAIL OF CONCRETE SLAB REPLACEMENT UNDER STR. B-17-RN
27. EXPANSION TERMINAL DETAILS
28. APPROACH SLAB DETAILS
29. MAPPING OF BRIDGE DECK DETERIORATION
- 30-38. MAJOR STRUCTURE DETAIL SHEETS
- 39-46. CONCRETE BOX CULVERT DETAILS AND LAYOUTS
47. INLET SPECIAL DETAIL (AT CBC LOCATIONS)
48. UNDERDRAIN DETAIL, TEMPORARY LIGHTING DETAIL, PLUGGED CBC DETAIL
- 49-50. LIGHTING PLAN AND TABULATION OF QUANTITIES
- 51-55. DETOUR PLAN AND DETAILS
56. DETAIL OF IMPACT ATTENUATOR
57. DETAIL OF TEMPORARY ASPHALT MEDIAN, DETAIL OF PAVEMENT TRANSITION
- 58-59. PLANS SHEETS FOR INTERCHANGES AT CO. RD. 26 AND AT S.H. 392
- 60-70. PLAN AND PROFILE SHEETS
71. TABULATION OF SIGNING QUANTITIES, SCHEDULE OF CONSTRUCTION TRAFFIC SIGNS
- 72-94. PERMANENT SIGNING SHEETS
- 95-111. CONSTRUCTION SIGNING SHEETS

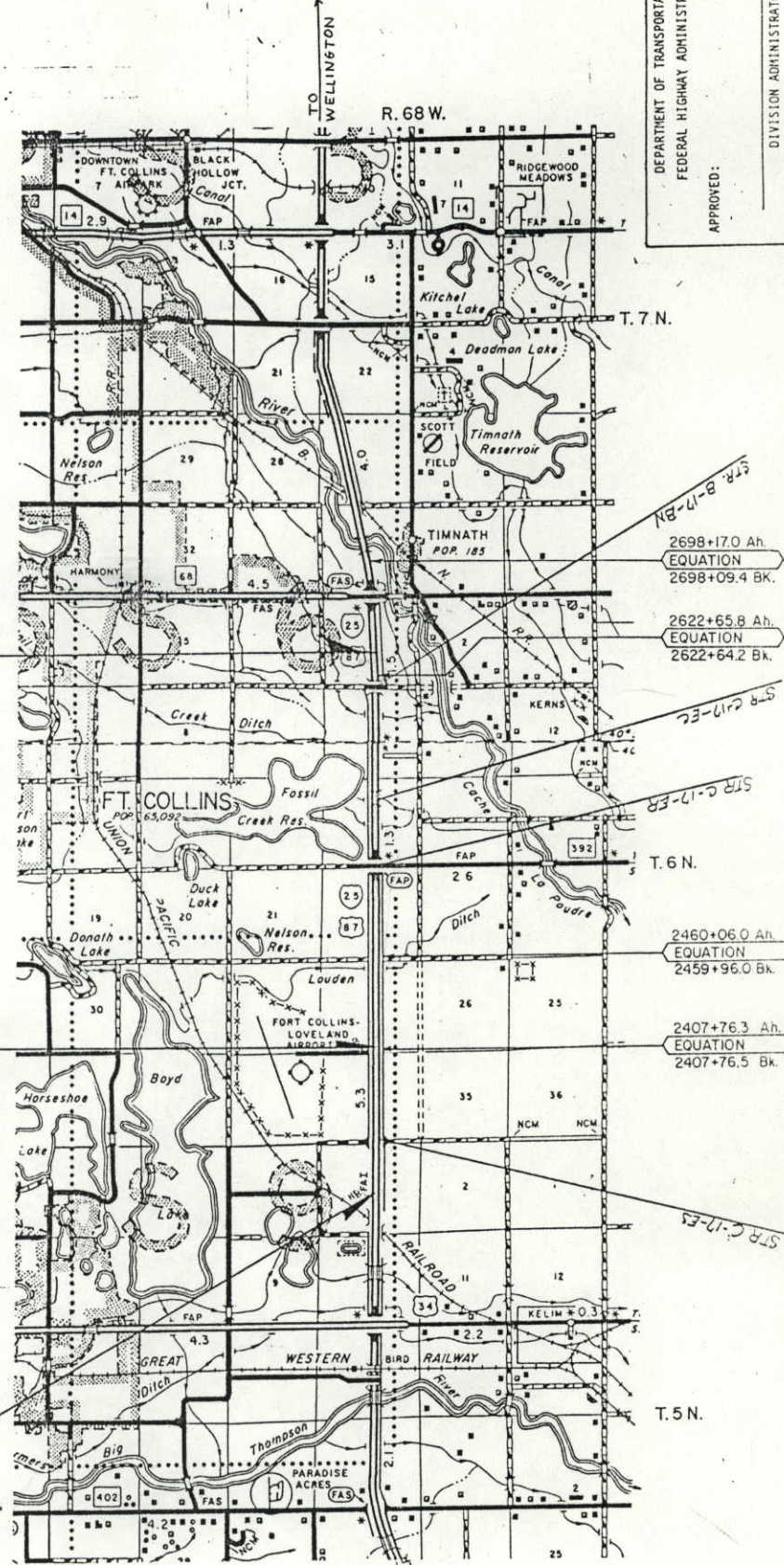
REVISIONS	NO.	DATE	DESCRIPTION
3-21-86	1		SHEET NO. 43

SCALES OF ORIGINAL DRAWINGS
ON PLAN, 1 IN. = 100 FT.
ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
1 IN. = 10 FT. VERTICAL

2410+00 ~ Begin IR 25-3(83) S.B.
=2410+00 End IR 25-3(79)
=2410+00 on I 25-3(35)258
M.P. 260.4

2325+00 Begin IR 25-3(83) N.B.
=2325+00 End IR 25-3(79) N.B.
=2325+00 on I 25-3(35)258
M.P. 258.8

2630+00 ~ End IR 25-3(83) =
2630+00 on I 25-3(35)258
M.P. 264.5



STATION	LENGTH AND DESIGN DATA		SOUTHBOUND LIN. FT. ROADWAY	LIN. FT. MAJOR STR.	LIN. FT. MAJOR STR.
	NORTHBOUND LIN. FT. ROADWAY	MAJOR STR.			
2325+00 BEGIN IR 25-3(83) NB 2325+00 END IR 25-3(79) NB M.P. 258.8	3003.25	93.50			
EQUATION 2407+76.50 BACK = 2407+76.30 AHEAD	5179.75				
2410+00 BEGIN IR 25-3(83) SB 2410+00 END IR 25-3(79) SB M.P. 260.4					
EQUATION 2622+64.2 BACK = 2622+65.8 AHEAD	16,257.60				
2630+00 END IR 25-3(83) = 2630+00 ON I 25-3(85) M.P. 264.6	734.20				
TOTALS	30,394.50	93.50			
SUMMARY					
AVERAGE OF SB AND NB LANES	MILES				
ROADWAY (NET LENGTH)	4.960				
MAJOR STRUCTURE	0.009				
PROJECT GROSS LENGTH	4.969				
DESIGN DATA*					
MAXIMUM DEGREE OF CURVE	0°30'				
MAXIMUM GRADE	8%				
MINIMUM SSD HORIZONTAL	600 FT.				
MINIMUM SSD VERTICAL	70 MPH				
2005 DESIGN TRAFFIC VOLUME ADT	43300				
DIV	4760				
% TRUCKS	14				



DIVISION OF HIGHWAYS
APPROVED: *Janette E. Sisk*
Asst. CHIEF ENGINEER
3-10-86
DATE

AS CONSTRUCTED INFORMATION
CONTRACTOR *Interstate Highway Const. Co.*
PROJECT ENGINEER *Charles A. Northrup*
(Project or Resident)
PROJECT STARTED *MAY 17, 1986*
PROJECT COMPLETED *JUNE 23, 1987*
AS CONSTRUCTED PLANS *L.C. P. 11-11-87*
APPROVED *Janette E. Sisk*
Dist. Const. *Edgar* 12-30-87
TITLE DATE

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED: _____
DATE _____
DIVISION ADMINISTRATOR

SW 4 SEC. 34
T. 6 N., R. 68 W.

TS. 0+00
Opp. 2370+247

SC. 1+50

2370

2375

2380

2385

2390

2395

NO REVISIONS

A: INSTRUCTED
REVISE: 6-23-87

FEDERAL ROAD DISTRICT NO. VII

PROJ. NO. IR 25-3(83)

SHEET NO. 62
TOTAL SHEETS

NW 4 SEC. 34
T. 6 N., R. 68 W.

+80-Mile mkr. 260

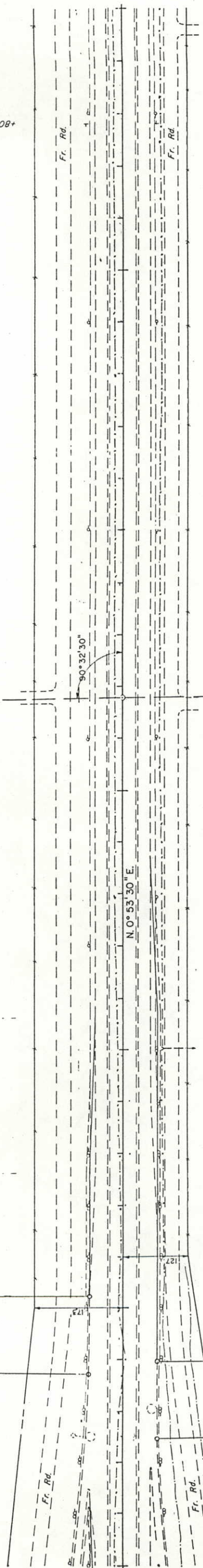
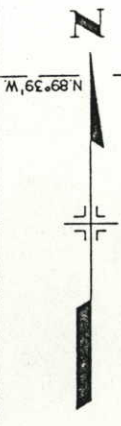
+81-Mile mkr. 260

+57-Field appr. 20'

+77-Field appr. 24'

+64-Field appr. 24'

P.O.T. 2381+78.1



830' ACCEL. LANE

300' TAPER

18" x 38" RCCP
Flagged

STW-2375+00 NB-PLUG-18" CMP-LT & RT

N 0° 53' 30" E

90° 32' 30"

B.M. No. 99 5068.61
Nail Rt. Sta. 2365+00

SE 4 SEC. 34
T. 6 N., R. 68 W.

B.M. No. 100 5070.61
Nail Rt. Sta. 2370+00

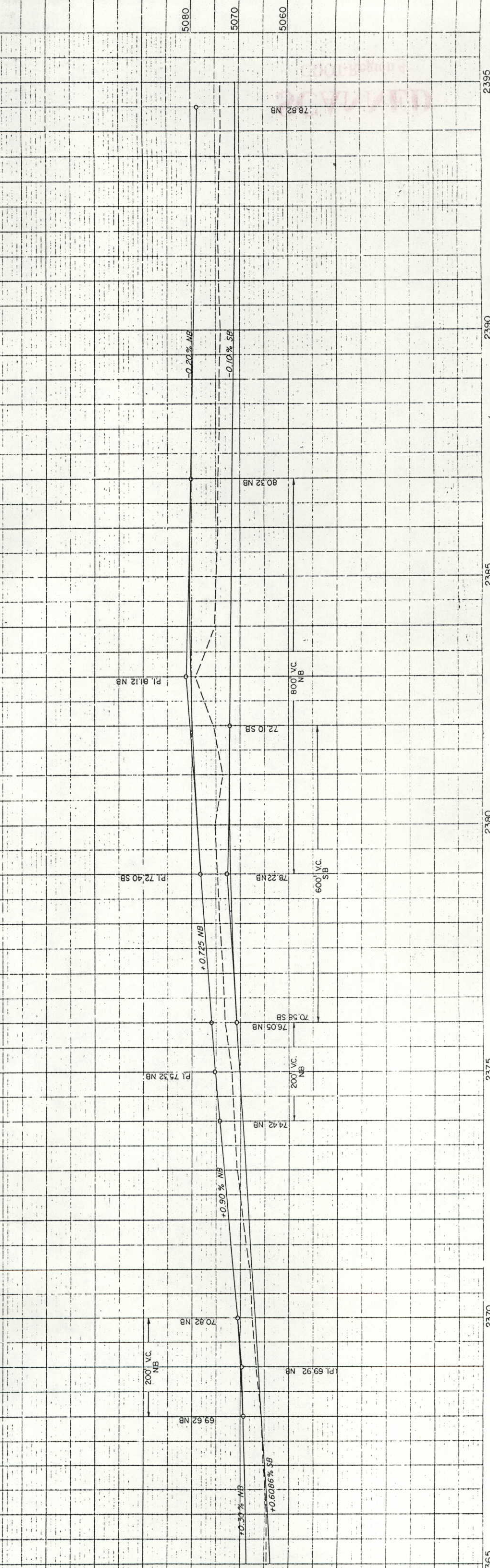
B.M. No. 101 5075.31
Nail Rt. Sta. 2375+00

B.M. No. 102 5078.81
Nail Rt. Sta. 2380+00

B.M. No. 103 5080.31
Nail Rt. Sta. 2385+00

B.M. No. 104 5079.69
Nail Rt. Sta. 2390+00

NE 4 SEC. 34
T. 6 N., R. 68 W.



2365

2370

2375

2380

2385

2390

2395

NE 1/4 SEC. 34
T. 6 N., R. 68 W.

2395

2400

2405

2410

2415

2420

2425

AS CONSTRUCTED
 NO REVISIONS
 REVISION 6-22-87 VOID

FEDERAL ROAD DISTRICT NO. VIII
 COLORADO
 PROJ. NO. IR 25-3(83)

SHEET NO. 63
 TOTAL SHEETS

SW 1/4 SEC. 27
 T. 6 N., R. 68 W.

Asph emb. prot.

Asph-emb-prot.

24x55' RCCP
 S. 89° 56' W.
 SEC. LINE

+41' Air Port Rd. 24'

24x62' CMP
 TYPE C W/CT, RT

24x62' CMP
 TYPE C W/CT, RT

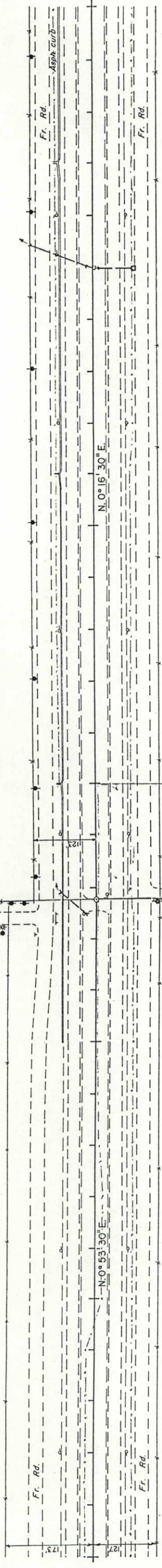
24x62' CMP
 TYPE C W/CT, RT

2410
 Asph emb. prot.

2415
 Asph-emb-prot.

2420
 12x
 24x44' RCCP
 TYPE C W/CT, RT

2425



2410+00 Begin IR 25-3(83) S.B.
 =2410+00 End IR 25-3(79)
 =2410+00 on 125-3(35)258
 M.P. 260.4

SEC. LINE
 N. 89° 42' E
 +87' Field opp. 18'
 P.I. 2407+76.3 AN
 Δ=0° 37' Lt

B.M. No. 107 5064.71
 Nail Rt. Sta. 2405+00

B.M. No. 106 5074.12
 Nail Rt. Sta. 2400+00

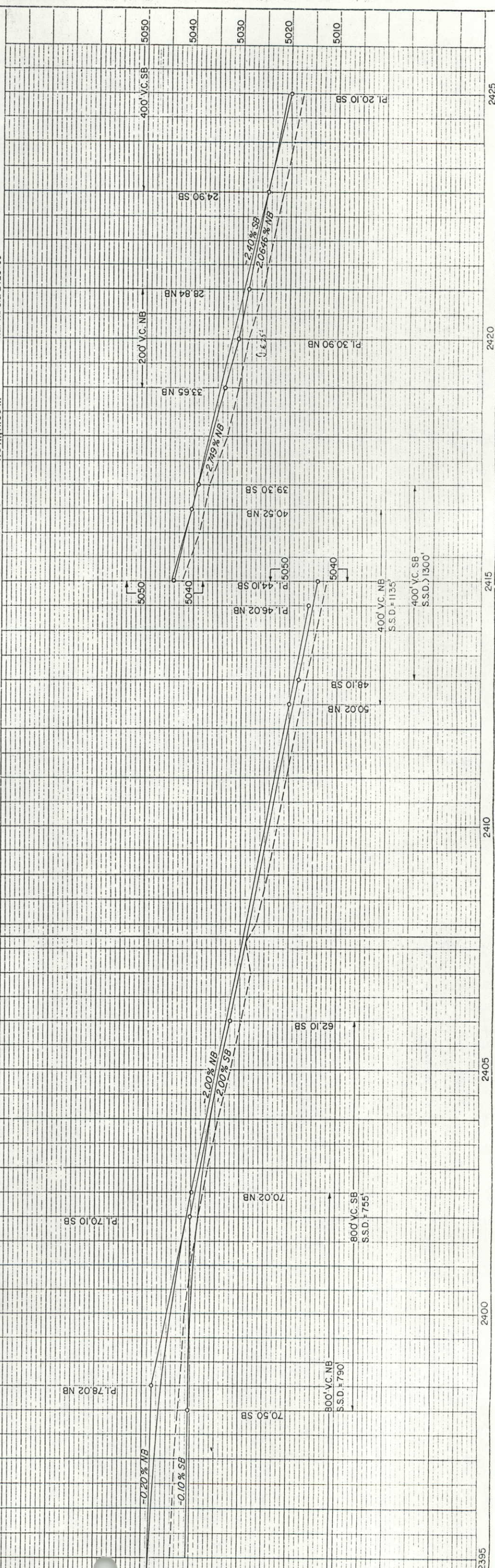
NE 1/4 SEC. 34
 T. 6 N., R. 68 W.

B.M. No. 105 5078.46
 Nail Rt. Sta. 2395+00

SE SEC. 27
 T. 6 N., R. 68 W.

B.M. No. 109 5043.82
 Nail Rt. Sta. 2415+00

B.M. No. 110 5030.54
 Nail Rt. Sta. 2420+00



2395 2400 2405 2410 2415 2420 2425

SW 4 SEC. 27
T. 6 N., R. 68 W.

AS CONSTRUCTED
REVISION: 5-22-57
VOID

IR 25-3(83)

SHEET NO. 64

FEDERAL HIGHWAY REGION VIII

DIVISION CALIFORNIA

NO REVISIONS

NY 4 SEC. 27
T. 6 N., R. 68 W.



2425 2430 2435 2440 2445 2450 2455

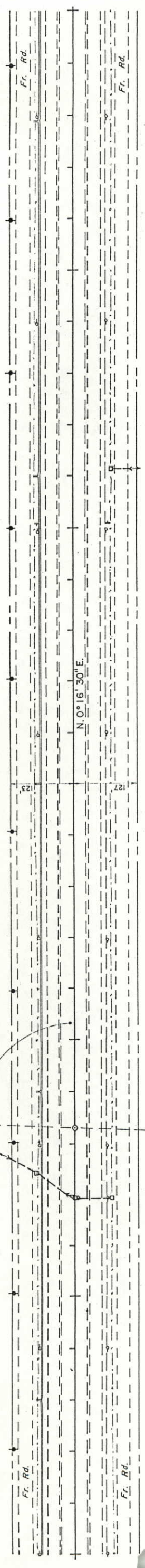
Asph-emb-prot.

Asph-emb-prot.

Asph-emb-prot.

Asph-emb-prot.

Asph-emb-prot.



N. 0° 16' 30" E.

24' x 56' CMP
Type C Inlet
RT & L

18' x 30' RCCP
Type C Inlet
RT

1/2" Mile mkr. 261

57A-2431+94

NO

57A-2446+11

← FR RD

REMOVE END SECTION RT. INLET TYPE C (12.5 FT.) & RT. (3 FT.).
EXTEND 24' CMP TO 10 FT. LT. & 6 FT. RT. AND CONNECT TO INLET TYPE C. REQ'D
CONCRETE SLOPE AND DITCH PAWING AND DIKES LT. & RT. FOR INLETS.

REMOVE END SECTION RT. EXCEED 24' REP. 22' FT. RT. AND CONNECT TO INLET TYPE C.
REMOVE GRATE AND MODIFY EXIST. INLET TO INLET TYPE C LT. (3 FT.) REQ'D CONCRETE
SLOPE AND DITCH PAWING (REINFORCED) LT. FOR INLET.

B.M. No. 112 5010.42
Nail Rt. Sta. 2430+00

SE 4 SEC. 27
T. 6 N., R. 68 W.

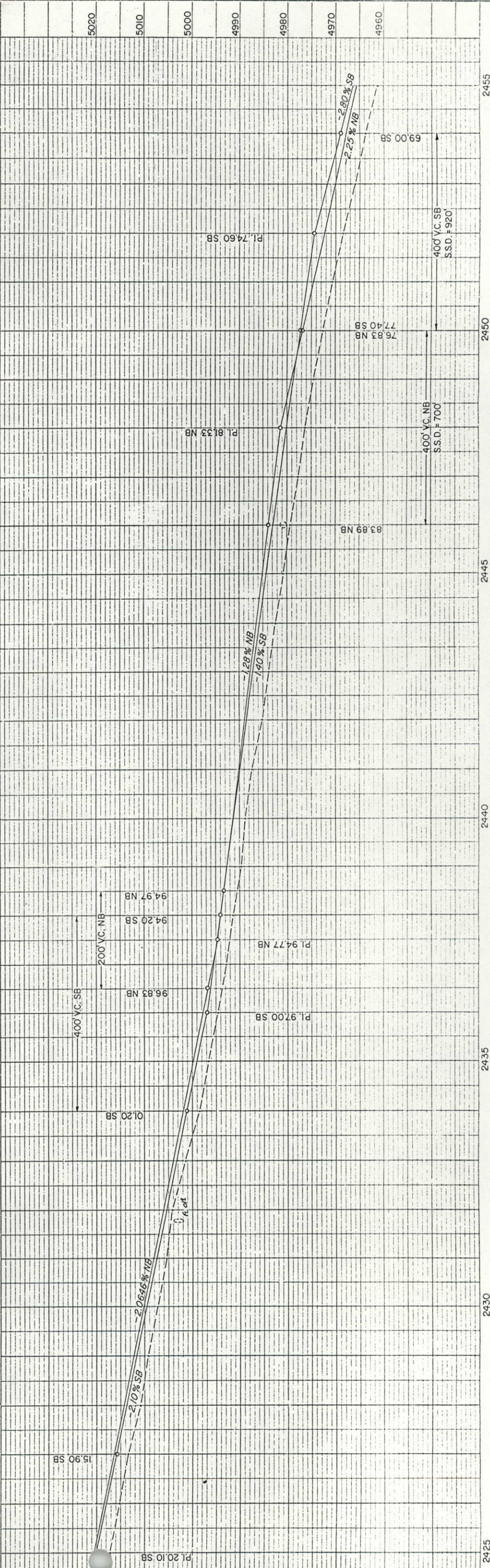
B.M. No. 111 5020.25
Nail Rt. Sta. 2425+00

B.M. No. 114 4991.94
Nail Rt. Sta. 2440+00

B.M. No. 115 4984.86
Nail Rt. Sta. 2445+00

NE 4 SEC. 27
T. 6 N., R. 68 W.

B.M. No. 115 4976.93
Nail Rt. Sta. 2450+00



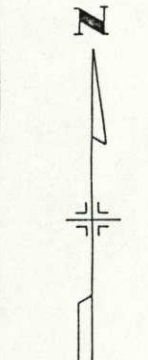
5020 5010 5000 4990 4980 4970 4960

2425 2430 2435 2440 2445 2450 2455

NW 4 SEC. 27
T. 6 N., R. 68 W.

ST. 2468

REMOVE PORTIONS OF PRESENT STRUCTURE (HANDSALLS, CONCRETE DITCH LINER) AT EXTEND
 10'-0" TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET
 REMOVE PORTIONS OF PRESENT STRUCTURE (HANDSALLS, CONCRETE DITCH LINER) AT RT.
 EXTEND TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET



AS CONSTRUCTED
 NO REVISIONS
 REVISED 5-22-57
 VOID

FEDERAL ROAD DISTRICT NO. VIII
 DIVISION DELOURO
 PROJ. NO. IR 25-3(83)
 SHEET NO. 65
 TOTAL SHEETS

+9-Ditch rider appr. 12' B.W. gate
 Mile mkr. 261.26
 10' x 4' x 300' CBC
 INLETS, RT., LT., E

2455

2465

2470

2475

2480

2485

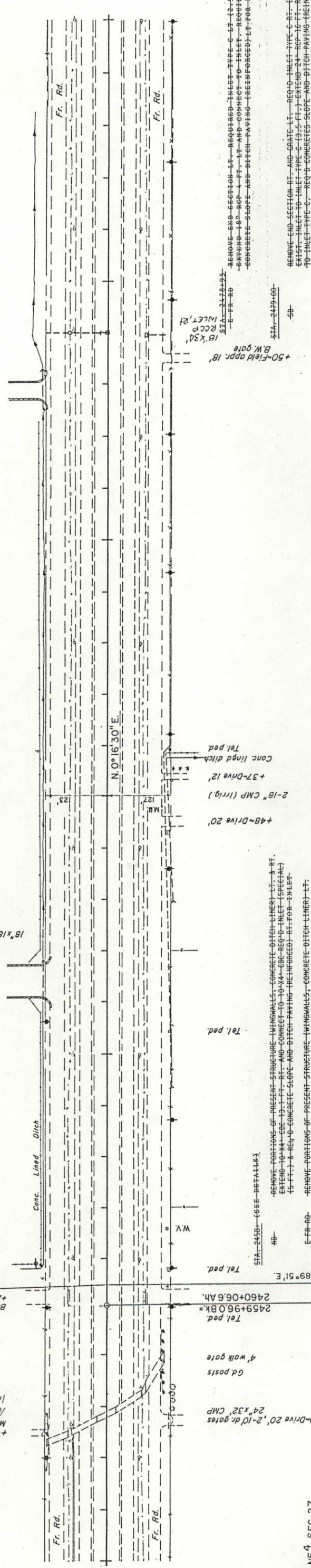
+89 Street
 18' x 80' CMP (Irrig.)
 24' x 58' RCCP
 24' x 42' RCCP
 2 W/End Section
 4 LT

+41 Street
 18' x 80' CMP (Irrig.)
 18' x 18' CMP (Irrig.)

+37-Drive 12'
 2-18" CMP (Irrig.)
 Conc lined ditch
 Tel. ped.

+48-Drive 20'
 Tel. ped.

+50-Field appr. 18'
 B.W. gate
 18' x 34' RCCP
 18' x 34' INLET, RT.



REMOVE PORTIONS OF PRESENT STRUCTURE (HANDSALLS, CONCRETE DITCH LINER) AT RT.
 EXTEND TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET

REMOVE PORTIONS OF PRESENT STRUCTURE (HANDSALLS, CONCRETE DITCH LINER) AT
 EXTEND TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET

REMOVE END SECTION AT AND GRADE AT. REPAIR INLET TYPE C AT (3'-5'-FT.) HANDSALLS
 EXTEND TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET

REMOVE END SECTION AT AND GRADE AT. REPAIR INLET TYPE C AT (2'-5'-FT.) HANDSALLS
 EXTEND TO 14'-0" FROM RT. AND CONNECT TO EXISTING CONC. DITCH LINER AT RT. AND
 REQ'D CONCRETE SLOPE AND DITCH PAVING (REINFORCED) FOR INLET

NE 4 SEC. 27
T. 6 N., R. 68 W.

B.M. No. 117 4965.60
Nail Rt. Sta. 2455+00

B.M. No. 118 4957.04
Nail Rt. of Equation

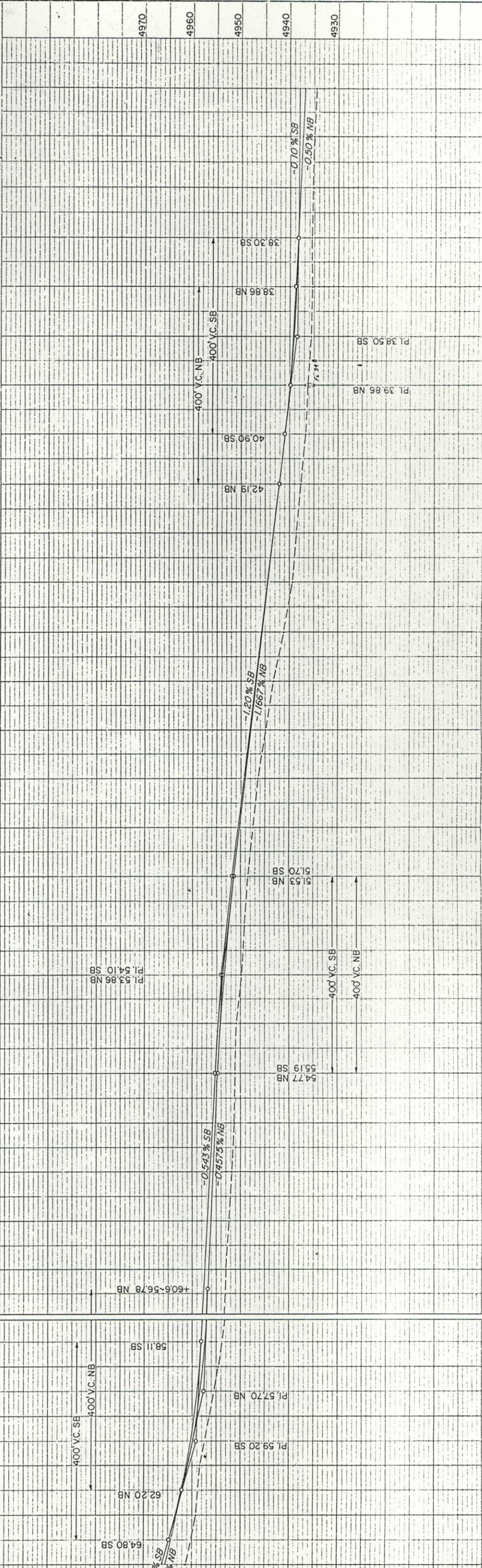
B.M. No. 119 4955.09
Nail Rt. Sta. 2465+00

B.M. No. 120 4950.69
Nail Rt. Sta. 2470+00

B.M. No. 121 4944.47
Nail Rt. Sta. 2475+00

B.M. No. 122 4339.69
Nail Rt. Sta. 2480+00

SE 4 SEC. 22
T. 6 N., R. 68 W.



NO REVISIONS

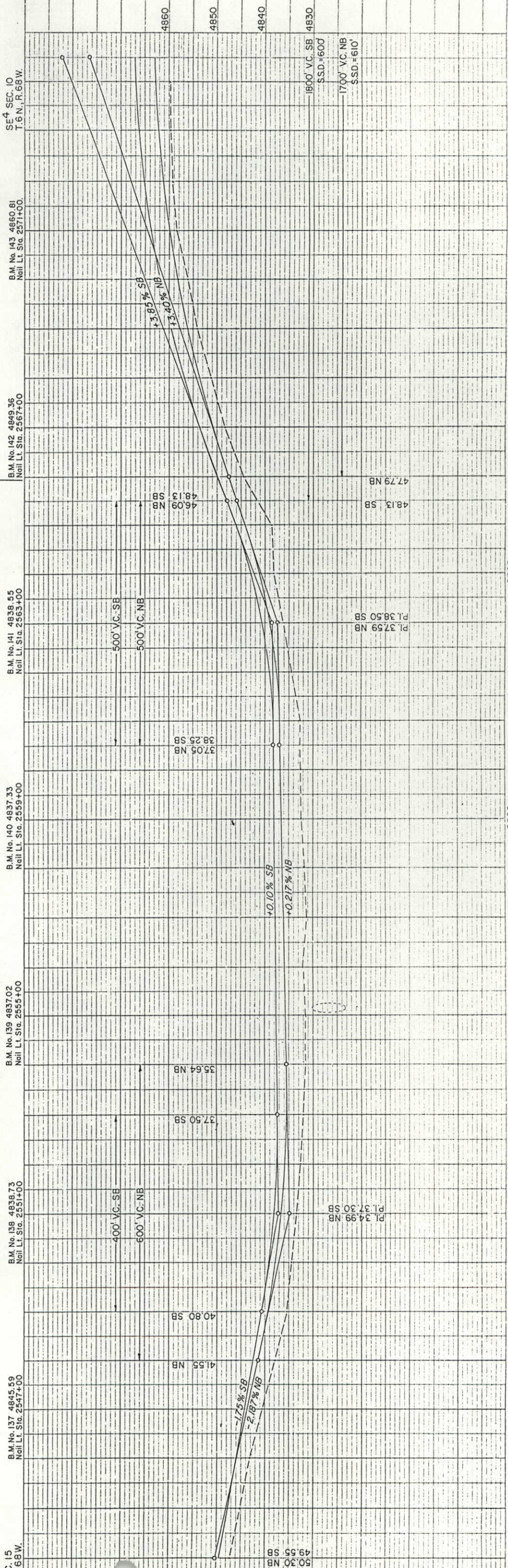
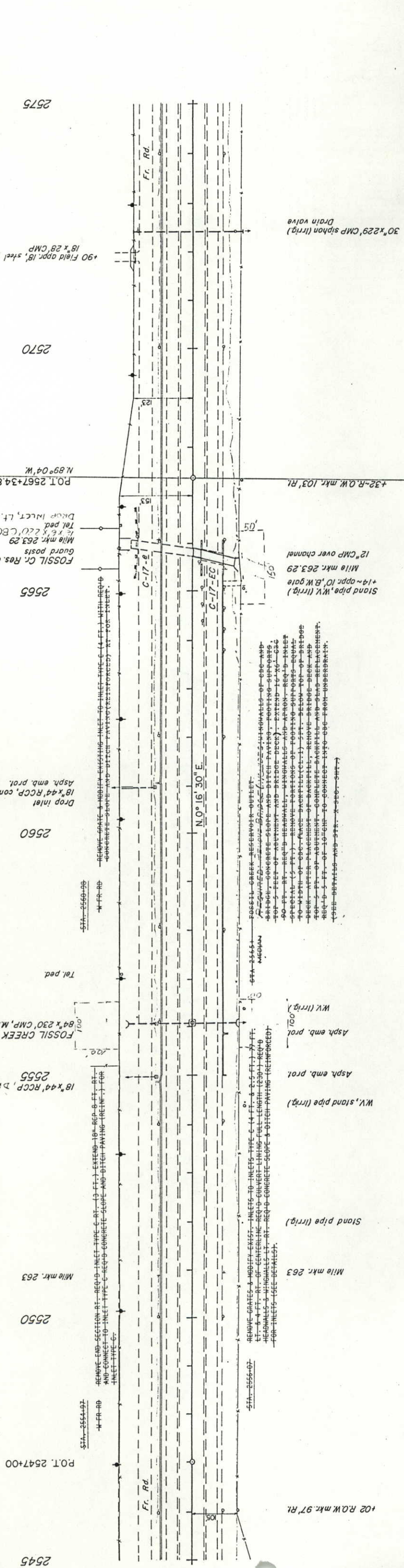
AS CONSTRUCTED

REVISED 6-23-87

TOTAL SHEETS 68

FEDERAL ROAD DISTRICT NO. VIII COLORADO PROJECT NO. IR 25-3(83)

SW⁴ SEC. 10 T. 6N., R. 68W.



FOSSIL CREEK RESERVOIR OUTLET
 64x230 CMP (SEE DETAILS)
 BRIDGE, CONCRETE SLOPE AND DITCH PAVING (REINFORCED)
 TOP 5 FEET OF ADJUTANT AND BRIDGE DECK - EXTEND TO 100 FT
 90 FT. RT. HEADWALL, WINGWALLS AND APRON - REQ'D INLET
 SPECIAL (5 FT.) - REMOVE PORTIONS OF FOOTING-SUPPORTS EQUAL
 TO WIDTH OF C.C. FACE BACKLIFT (1) 5 FT. BELOW TOP OF BRIDGE
 DECK. AFTER PLACEMENT OF BACKFILL, REMOVE BRIDGE DECK AND
 TOP 5 FT. OF ADJUTANT - COMPLETE BACKFILL AND GRASS REPLACEMENT.
 REQ'D 5 FT. OF LIGHT TO CONNECT INTO C.C. FROM UNDERDRAIN.
 (SEE DETAILS AND SEE STA. 2560-2563)

REMOVE GRATES & MODIFY EXIST. INLETS TO INLETS TYPE C (14 FT. x 25 FT.) 7 FT.
 LT. & 4 FT. RT. OF CENTERLINE REQ'D CURVE LENGTH (200 FT.) REQ'D
 HEADWALLS & WINGWALLS LT. RT. REQ'D CONCRETE SLOPE & DITCH PAVING (REINFORCED)
 FOR INLETS (SEE DETAILS)

REMOVE GRATES & MODIFY EXIST. INLETS TO INLETS TYPE C (14 FT. x 25 FT.) 7 FT.
 LT. & 4 FT. RT. OF CENTERLINE REQ'D CURVE LENGTH (200 FT.) REQ'D
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 FOR INLETS (SEE DETAILS)

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 (SEE DETAILS AND SEE STA. 2560-2563)

