

# DEPARTMENT OF TRANSPORTATION STATE OF COLORADO

93120

FEDERAL ROAD REGION NO.	DIVISION	PROJECT NO.	SHEET NO.
VII	COLORADO	NH(CX) 040-2(34)	1

AS CONSTRUCTED

NO REVISIONS  REVISED  VOID

REVISIONS		

## PLAN AND PROFILE OF PROPOSED COLORADO PROJECT NO. NH(CX) 040-2(34) STATE HIGHWAY NO. 40 GRAND COUNTY

TABULATION OF LENGTH AND DESIGN DATA		
STATION	ROADWAY LIN. FT.	MAJOR STRUCTURE
STA. 324+00 BEGIN PROJECT NH(CX) 040-2(34) APPROX. STA. 318+20.11 ON PROJECT F.A.P. 151-E, M.P. 207.51	13,576.25	107.50
STA. 459+76.25 BEGIN MAJOR STRUCTURE NO. D-13-F		
STA. 460+83.75 END MAJOR STRUCTURE NO. D-13-F		
STA. 514+50 END PROJECT NH(CX) 040-2(34) APPROX. STA. 508+68.86 ON PROJECT NRH 151-D, M.P. 211.04	5,336.25	
<b>TOTAL</b>	<b>18,942.50</b>	<b>107.50</b>
SUMMARY		
ROADWAY	18,942.50	3.588
MAJOR STRUCTURE	107.50	0.020
PROJECT GROSS LENGTH	19,050.00	3.608
DESIGN DATA		
MAXIMUM DEGREE OF CURVE	5°57'	
MAXIMUM GRADE	3.947%	
MINIMUM S.S.D. HORIZONTAL	450'	
MINIMUM S.S.D. VERTICAL	450'	
MAXIMUM DESIGN SPEED	55 MPH	
2010 DESIGN TRAFFIC VOLUMES	DHV = 588 ADT = 3675 7% TRUCKS	

SCALES OF ORIGINAL DRAWINGS

ON PLAN, 1 IN. = 50 FT.

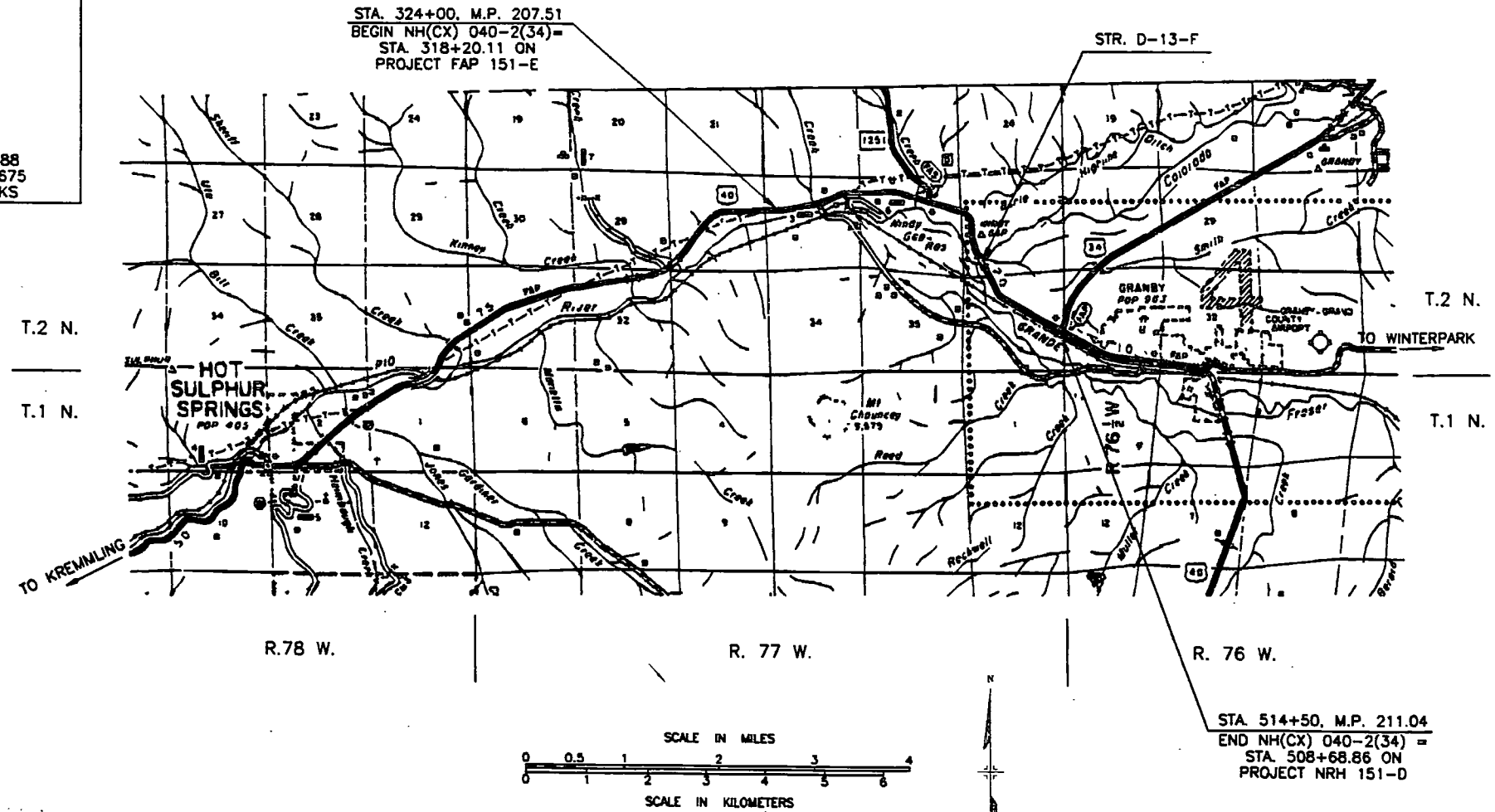
ON PROFILE { 1 IN. = 50 FT. HORIZONTAL  
1 IN. = 5 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD

FINAL VOUCHER PLANS

*E. M. Jamohlen*

SIGNATURE



SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STANDARD PLANS LIST
3	TYPICAL SECTIONS
4	GENERAL NOTES
5-7	SUMMARY OF APPROXIMATE QUANTITIES
8-9	STRUCTURE QUANTITIES
10	SURFACING PLAN TABULATION
11	TABULATION OF GUARDRAIL, CONCRETE BARRIER AND CURB & GUTTER
12	TABULATION OF REMOVALS
13	SUMMARY OF EARTHWORK QUANTITIES
14-15	TABULATION OF FENCING
16-17	TABLATIONS OF SIGNS, PAVEMENT MARKINGS AND DELINEATORS
18-19	TABULATION OF NPDES EROSION CONTROL ITEMS.
20	TABULATION OF CONSTRUCTION TRAFFIC SIGNS AND TRAFFIC SIGN NOTES
21	TABULATION OF HYDRAULIC DATA
22	TABULATION OF BORING SAMPLING
23	EROSION CONTROL DETAILS
24	TEMPORARY RIPRAP BERM DETAILS
25	DITCH RELOCATION DETAIL
26	PIPED IRRIGATION DITCH
27	S.H. 34 INTERSECTION DETAILS
28	H - PILE RETAINING WALL DETAILS
29-31	MISCELLANEOUS DETAILS
32	CONTROL DIAGRAM
33-48	COLORADO RIVER BRIDGE (D-13-F)
49-63	PLAN AND PROFILE SHEETS
64-70	SIGNING AND STRIPING PLANS
71-72	SURVEY MONUMENTS
201-208	CROSS CULVERT PROFILES
301-304	DRIVEWAY AND APPROACH PROFILES

NEW AND REVISED STANDARDS:

M-606-12 GUARDRAIL TYPE 4, CONCRETE BARRIER (9 SHEETS) (2-18-83)

M-620-2 FIELD LABORATORY CLASS 2 (1 SHEET) (5-25-88)

AS CONSTRUCTED INFORMATION	
CONTRACTOR	_____
ENGINEER (Project or Resident)	_____
PROJECT STARTED	_____
PROJECT COMPLETED	_____
AS CONSTRUCTED PLANS APPROVED	_____
TITLE	DATE

01/18/93 16:19:45 C:\GRANBY\FOR\GBCOVER D 203-768011.WS

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN NO. \_\_\_\_\_ DATE \_\_\_\_\_  
 SURVEYED \_\_\_\_\_ BY \_\_\_\_\_  
 PLOTTED \_\_\_\_\_  
 ALIGNMENT CHECKED \_\_\_\_\_  
 RT. OF WAY CHECKED \_\_\_\_\_  
 NO. \_\_\_\_\_

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AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED	VIII	COLO.	NH(CX) 040-2(34)	2	

PLAN NO.	TITLE	PAGE
<input checked="" type="checkbox"/> M-100-1	STANDARD SYMBOLS.....	1
<input checked="" type="checkbox"/> M-107-1	TEMPORARY EROSION CONTROL.....	2
<input checked="" type="checkbox"/> M-203-1	APPROACH ROADS, FLARING, CUT SLOPE TREATMENT, BRIDGE & CREST WIDENING.....	3
<input checked="" type="checkbox"/> M-203-2	DITCH TYPES.....	4
<input checked="" type="checkbox"/> M-203-10	SUPERELEVATION OF CURVES - CROWNED HIGHWAYS.....	5
<input type="checkbox"/> M-203-11	SUPERELEVATION OF CURVES - DIVIDED HIGHWAYS - SHOULDER PIVOT.....	6
<input type="checkbox"/> M-203-12	SUPERELEVATION OF CURVES - STREETS.....	7
<input type="checkbox"/> M-203-13	SUPERELEVATION OF CURVES - DIVIDED HIGHWAYS - CENTER PIVOT.....	8
<input checked="" type="checkbox"/> M-206-1	EXCAVATION AND BACKFILL FOR STRUCTURES.....(2 SHEETS)	9
<input checked="" type="checkbox"/> M-206-2	EXCAVATION AND BACKFILL FOR BRIDGES.....	11
<input type="checkbox"/> M-214-1	PLANTING DETAILS.....	12
<input type="checkbox"/> M-412-2	CONCRETE PAVEMENT JOINTS - URBAN AREAS.....	13
<input type="checkbox"/> M-504-1	STEEL CRIBBING.....	14
<input checked="" type="checkbox"/> M-506-1	GABIONS AND SLOPE MATTRESS.....	15
<input type="checkbox"/> M-510-1	STRUCTURAL PLATE CULVERT PIPE-- H-20 LOADING.....(2 SHEETS)	16
<input type="checkbox"/> M-601-1	SINGLE CONCRETE BOX CULVERT.....	18
<input type="checkbox"/> M-601-2	DOUBLE CONCRETE BOX CULVERT.....	19
<input type="checkbox"/> M-601-3	TRIPLE CONCRETE BOX CULVERT.....	20
<input type="checkbox"/> M-601-10	HEADWALL FOR PIPE CULVERTS.....	21
<input type="checkbox"/> M-601-11	TYPE "S" SADDLE HEADWALL FOR PIPE CULVERTS.....	22
<input type="checkbox"/> M-601-12	HEADWALL, INTERCEPTING HEADWALL AND CULVERT OUTLET PAVING.....	23
<input checked="" type="checkbox"/> M-601-20	WINGWALLS FOR PIPE OR BOX CULVERTS.....	24
<input checked="" type="checkbox"/> M-603-1	METAL CULVERT PIPE - H-20 LOADING.....(2 SHEETS)	25
<input checked="" type="checkbox"/> M-603-2	REINFORCED CONCRETE PIPE.....	27
<input type="checkbox"/> M-603-3	PRECAST CONCRETE BOX CULVERT.....	28
<input checked="" type="checkbox"/> M-603-10	CONCRETE AND METAL END SECTIONS.....	29
<input type="checkbox"/> M-604-1	PIPE SEWER IN TRENCH.....	30
<input checked="" type="checkbox"/> M-604-10	INLET, TYPE C.....	31
<input type="checkbox"/> M-604-11	INLET, TYPE D.....	32
<input type="checkbox"/> M-604-12	CURB INLET, TYPE R.....(2 SHEETS)	33
<input type="checkbox"/> M-604-13	CONCRETE INLET, TYPE 13.....	35
<input type="checkbox"/> M-604-20	MANHOLES.....	36
<input type="checkbox"/> M-604-21	STEPS FOR MANHOLES & INLETS.....	37
<input checked="" type="checkbox"/> M-606-1	GUARD RAIL, TYPE 3, W - BEAM.....(8 SHEETS)	38
<input type="checkbox"/> M-606-2	GUARD RAIL, TYPE 3, W - BEAM FOR LOCAL ROADS & STREETS.....(4 SHEETS)	46
<input type="checkbox"/> M-606-10	GUARD RAIL, TYPE 4, CONCRETE BARRIER, CAST IN PLACE.....	50
<input type="checkbox"/> M-606-11	GUARD RAIL, TYPE 4, CONCRETE BARRIER, PRECAST PORTABLE.....	51

PLAN NO.	TITLE	PAGE
<input checked="" type="checkbox"/> M-607-1	WIRE FENCES AND GATES.....(3 SHEETS)	52
<input type="checkbox"/> M-607-2	CHAIN LINK FENCE.....(2 SHEETS)	54
<input type="checkbox"/> M-607-3	BARRIER FENCE.....	57
<input type="checkbox"/> M-607-4	DEER FENCE AND GATE.....(2 SHEETS)	58
<input type="checkbox"/> M-607-10	PICKET SNOW FENCE.....	60
<input type="checkbox"/> M-608-1	CURB RAMPS.....	61
<input checked="" type="checkbox"/> M-609-1	CURBS AND GUTTERS.....	62
<input type="checkbox"/> M-611-1	CATTLE GUARD - WELDED GRILL UNITS - 10' THRU 42' ROADWAYS.....(2 SHEETS)	63
<input type="checkbox"/> M-613-1	HIGHWAY LIGHTING.....(2 SHEETS)	65
<input type="checkbox"/> M-615-1	EMBANKMENT PROTECTOR, TYPE 3 & 4.....	67
<input type="checkbox"/> M-615-2	EMBANKMENT PROTECTOR, TYPE 5.....	68
<input type="checkbox"/> M-616-1	INVERTED SIPHON..... 69 (ALSO USE M-603 OR M-604 AS REQUIRED)	
<input type="checkbox"/> M-620-1	FIELD LABORATORY - CLASS 1.....	70
<input type="checkbox"/> M-620-2	FIELD LABORATORY - CLASS 2.....	71
<input type="checkbox"/> M-620-11	FIELD OFFICE - CLASS 1.....	72
<input type="checkbox"/> M-620-12	FIELD OFFICE - CLASS 2.....	73

PLAN NO.	TITLE	PAGE
<input checked="" type="checkbox"/> S-612-1	TYPICAL DELINEATOR INSTALLATIONS.....(4 SHEETS)	75
<input checked="" type="checkbox"/> S-614-1	TYPICAL GROUND SIGN PLACEMENT.....	79
<input checked="" type="checkbox"/> S-614-2	CLASS 1 GROUND SIGN INSTALLATIONS.....	80
<input type="checkbox"/> S-614-3	CLASS II GROUND SIGN INSTALLATIONS.....	81
<input type="checkbox"/> S-614-4	CLASS III SIGNS, LAMINATED ALUMINUM PANELS AND POST SPACING TABLE.....(2 SHEETS)	82
<input type="checkbox"/> S-614-5	BREAK - AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS.....(2 SHEETS)	84
<input type="checkbox"/> S-614-6	CONCRETE FOOTINGS AND SIGN ISLANDS FOR CLASS III SIGNS.....(2 SHEETS)	86
<input type="checkbox"/> S-614-10	TYPICAL MARKER ASSEMBLY INSTALLATIONS.....	88
<input type="checkbox"/> S-614-11	MILEPOST SIGN AND INSTALLATION.....	89
<input checked="" type="checkbox"/> S-614-12	STRUCTURE NUMBER INSTALLATION (BRIDGE INFORMATION SHEET).....	90
<input type="checkbox"/> S-614-13	STANDARD RAILROAD CROSSING SIGNS AND MARKINGS.....	91
<input type="checkbox"/> S-614-20	TYPICAL POLE MOUNT SIGN INSTALLATION.....	92
<input type="checkbox"/> S-614-21	CONCRETE BARRIER SIGN POST INSTALLATIONS.....	93
<input checked="" type="checkbox"/> S-614-22	TYPICAL MULTI - SIGN INSTALLATIONS.....	94
<input type="checkbox"/> S-614-30	INTERSTATE ROUTE MARKERS.....	95
<input checked="" type="checkbox"/> S-614-31	U.S. & COLORADO ROUTE MARKERS.....	96
<input type="checkbox"/> S-614-32	AUXILIARY MARKERS.....	97
<input type="checkbox"/> S-614-40	TRAFFIC SIGNAL INSTALLATION DETAILS.....(3 SHEETS)	98
<input checked="" type="checkbox"/> S-614-50	TRAFFIC CONTROLS FOR HIGHWAY CONSTRUCTION.....(4 SHEETS)	101
<input checked="" type="checkbox"/> S-614-51	BARRICADES, DRUMS, CONCRETE BARRIER (TEMP) & VERTICAL PANELS.....	105
<input checked="" type="checkbox"/> S-627-1	TYPICAL PAVEMENT MARKINGS.....(3 SHEETS)	106

THE STANDARD PLAN SHEETS INDICATED HEREON BY A  
 MARKED BOX ARE TO BE USED TO CONSTRUCT THIS  
 PROJECT.

DEPARTMENT OF HIGHWAYS  
 STATE OF COLORADO  
 DIVISION OF HIGHWAYS

STANDARD PLANS LIST

M & S STANDARDS - JANUARY, 1982



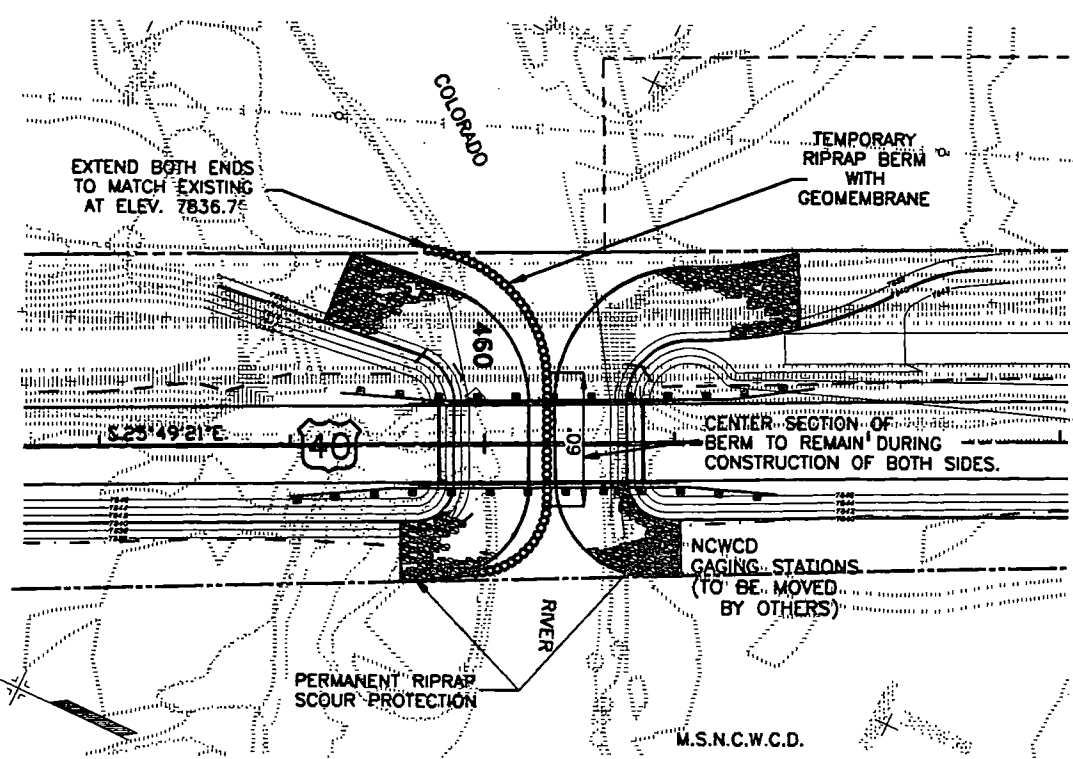
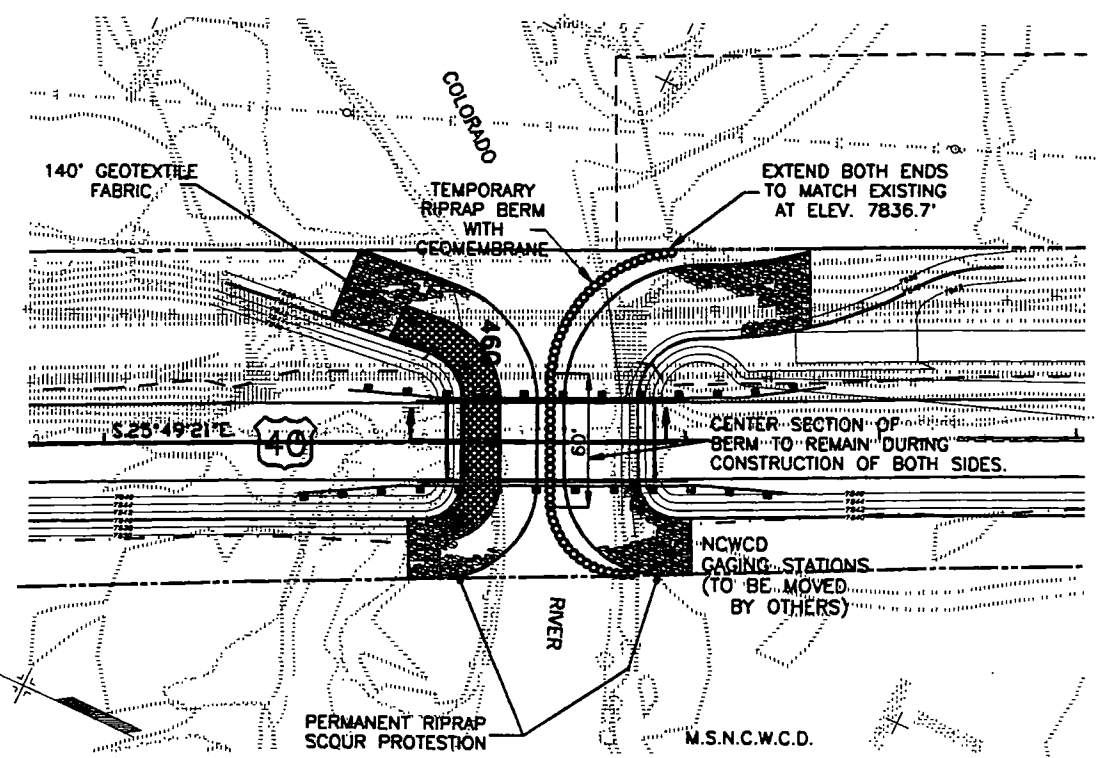


AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.	TOTAL SHEETS
NO REVISIONS	REVISED	VOID	VIII	COLO.	NH(CX) 040-2(34)	24

TEMPORARY RIPRAP BERM DETAILS

CONSTRUCTION PHASES  
1 THRU 4

CONSTRUCTION PHASES  
5 THRU 7



0 50 100 150  
 SCALE: 1" = 50'  
 (Original 22" x 34")  
 CONTOUR INTERVAL = 2'

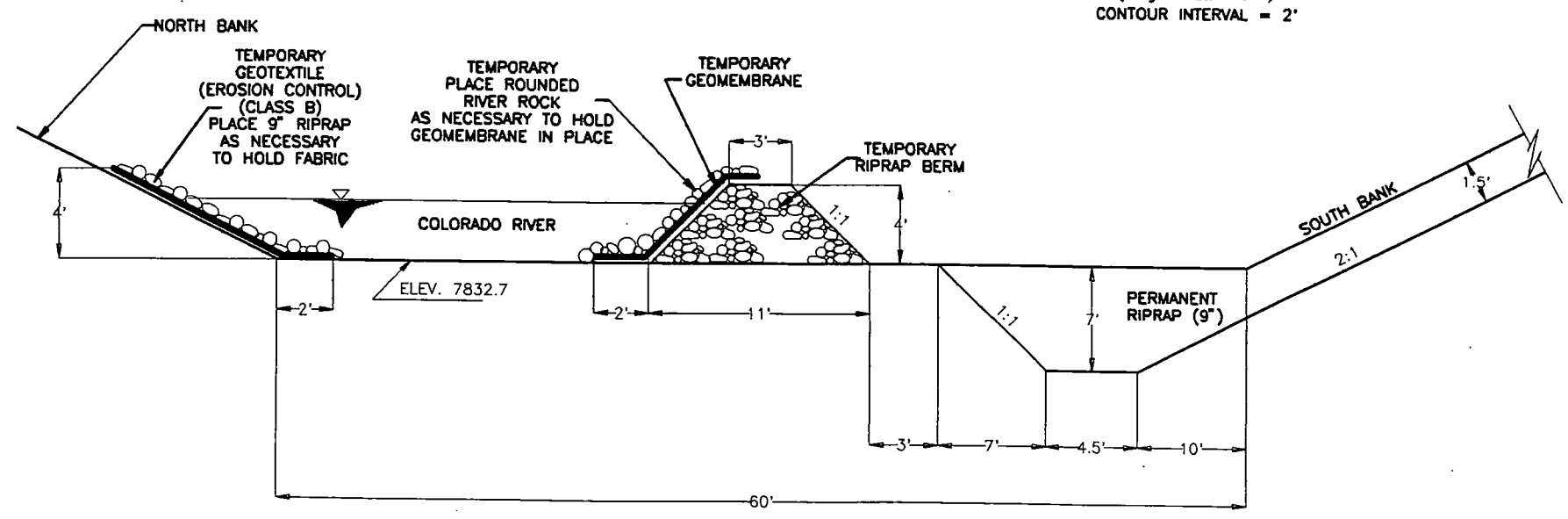
COLORADO RIVER BRIDGE SCOUR RIPRAP  
CONSTRUCTION PHASING

- PHASE 1. CONSTRUCT BRIDGE ABUTMENTS AND ROADWAY EMBANKMENT.
- PHASE 2. PLACE GEOTEXTILE FABRIC ALONG NORTH BANK - SEE DETAILS ON THIS SHEET.
- PHASE 3. CONSTRUCT TEMPORARY RIPRAP BERM WITH GEOMEMBRANE AROUND SOUTH BANK.
- PHASE 4. CONSTRUCT PERMANENT RIPRAP STRUCTURE ALONG SOUTH BANK.
- PHASE 5. MOVE TEMPORARY RIPRAP BERM (60' CENTER SECTION REMAINS IN PLACE) AROUND NORTH BANK AND REMOVE GEOTEXTILE FABRIC.
- PHASE 6. CONSTRUCT PERMANENT RIPRAP STRUCTURE ALONG NORTH BANK.
- PHASE 7. REMOVE TEMPORARY RIPRAP BERM.

NOTE: PUMPING AND WATER CONTROL FOR CONSTRUCTION OF ALL PERMANENT RIPRAP SHALL BE CONSIDERED SUBSIDIARY TO THE WORK AND WILL NOT BE PAID FOR SEPARATELY.

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED BY: CHECKED BY: APPROVED BY: LFT  
 JOB NUMBER: 203-7680

PLAN	DATE
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	



CHANNEL CROSS SECTION  
 CONSTRUCTION PHASES 1 THRU 4  
 N.T.S.



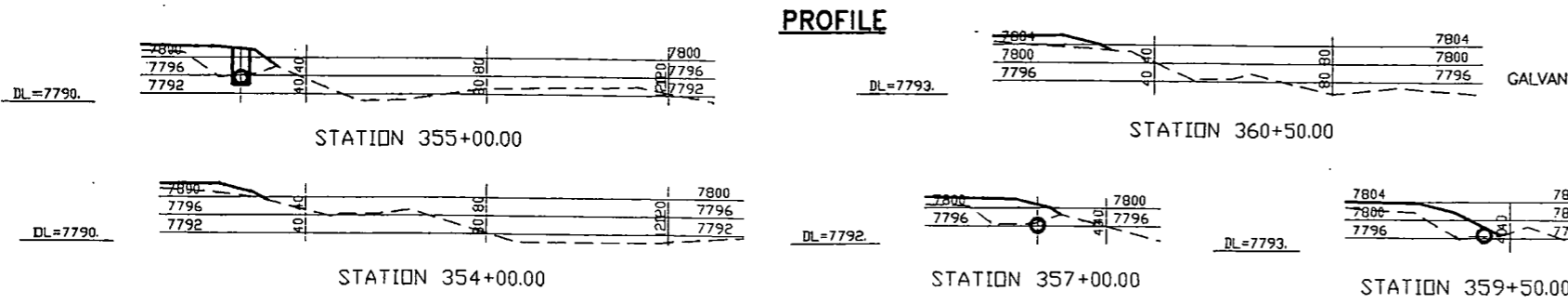
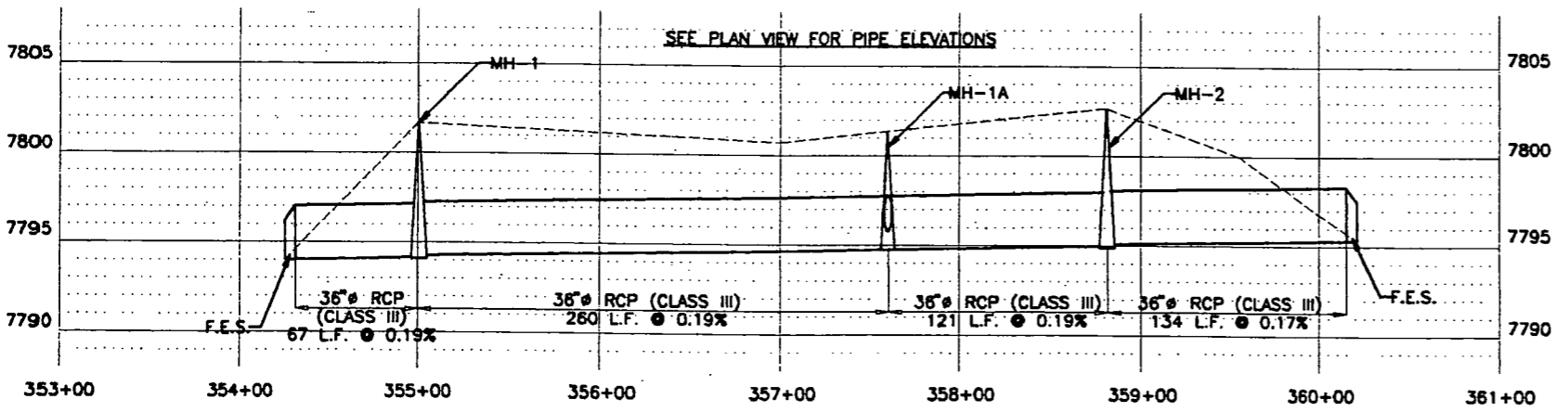
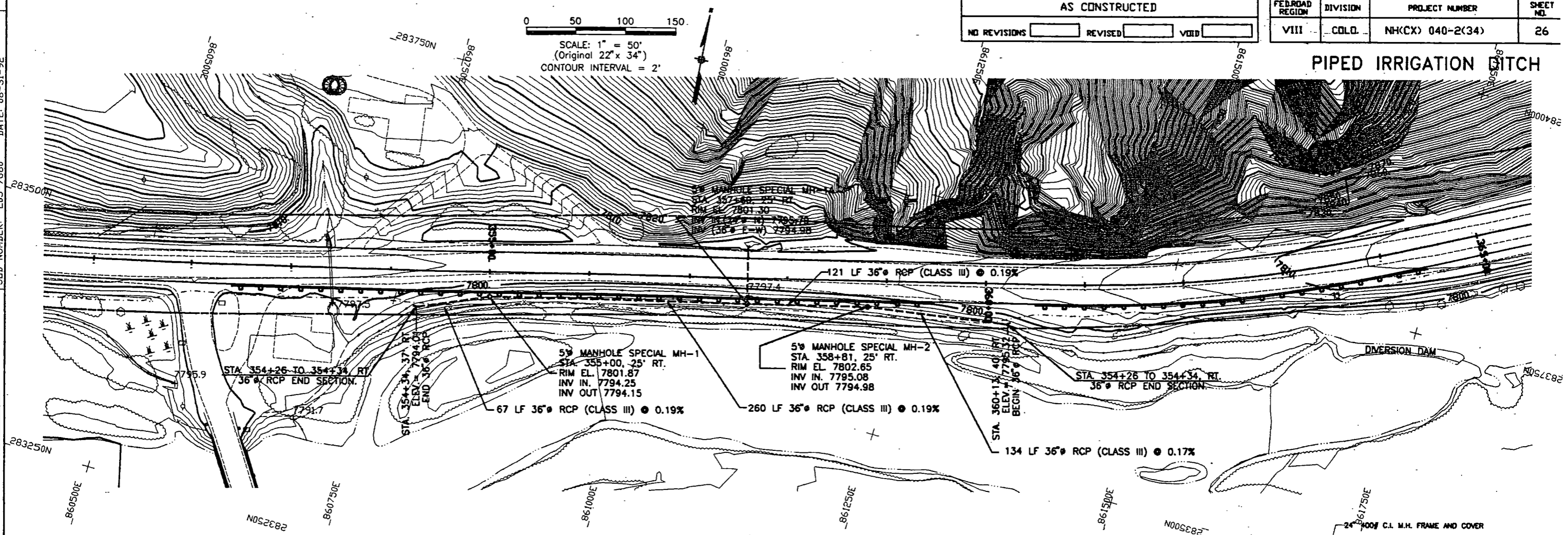
MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 08-31-92

PLAN	DATE
SURVEYED	
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REL. BY	
DATE	

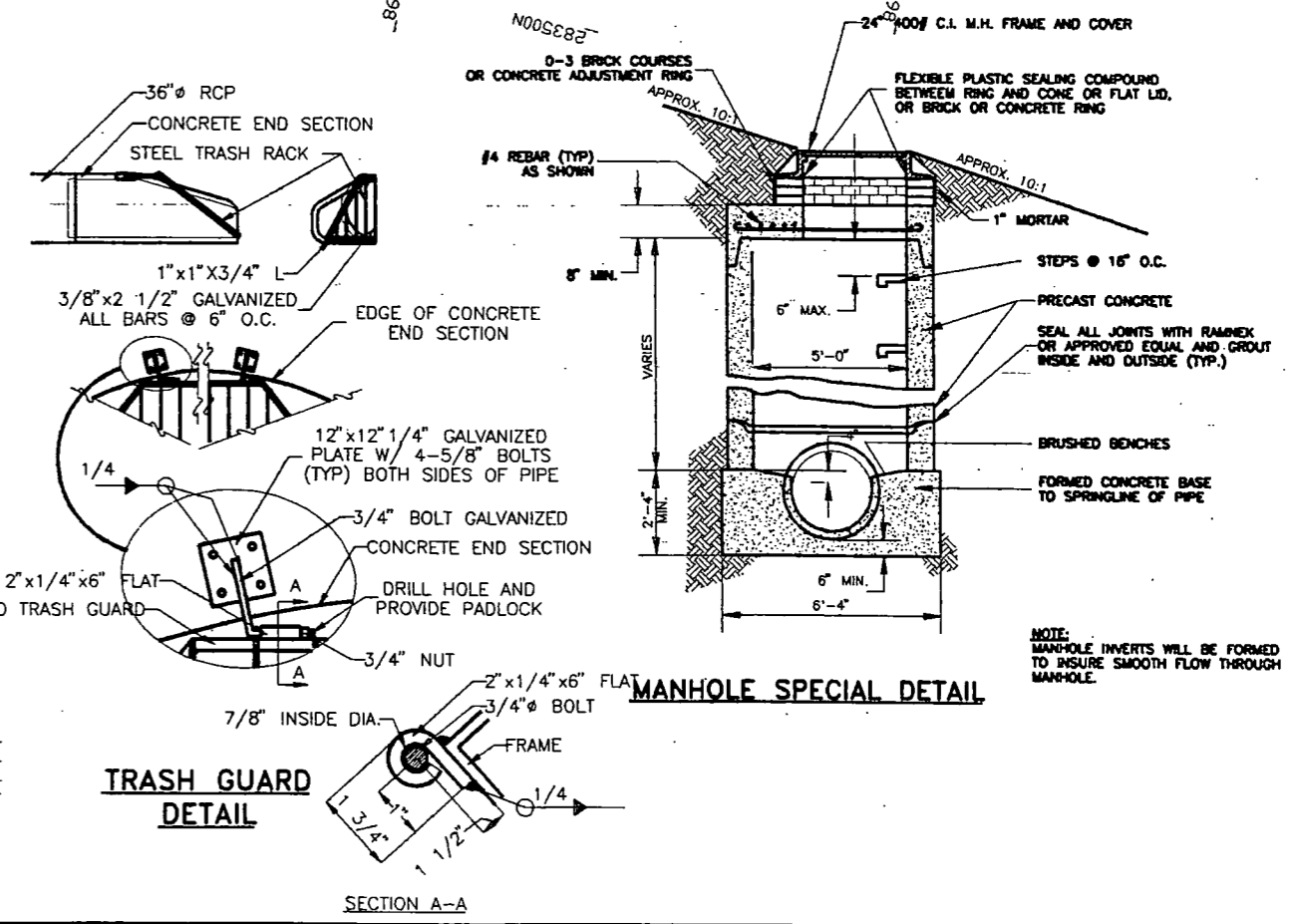
MERRICK  
 TRANSPORTATION  
 12/14/92 C. GRANBY FOR DITCH#6 D 203-768011 WS

AS CONSTRUCTED			
NO REVISIONS	REVISED	VOID	
FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	26

PIPED IRRIGATION DITCH



CROSS SECTION

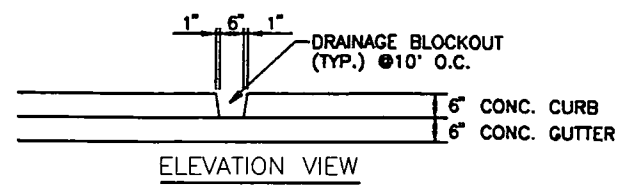
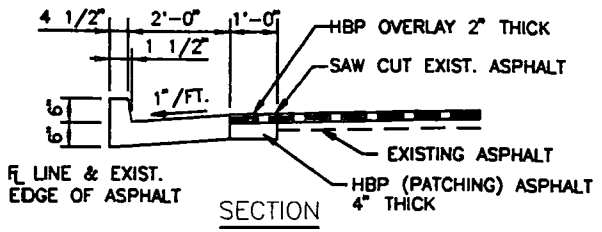


NOTE: MANHOLE INVERTS WILL BE FORMED TO INSURE SMOOTH FLOW THROUGH MANHOLE.

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	27

**S.H. 34 INTERSECTION DETAILS**



**CURB AND GUTTER TYPE 2 SPECIAL**  
 (6" BARRIER-2' GUTTER)

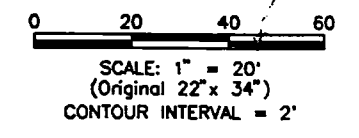
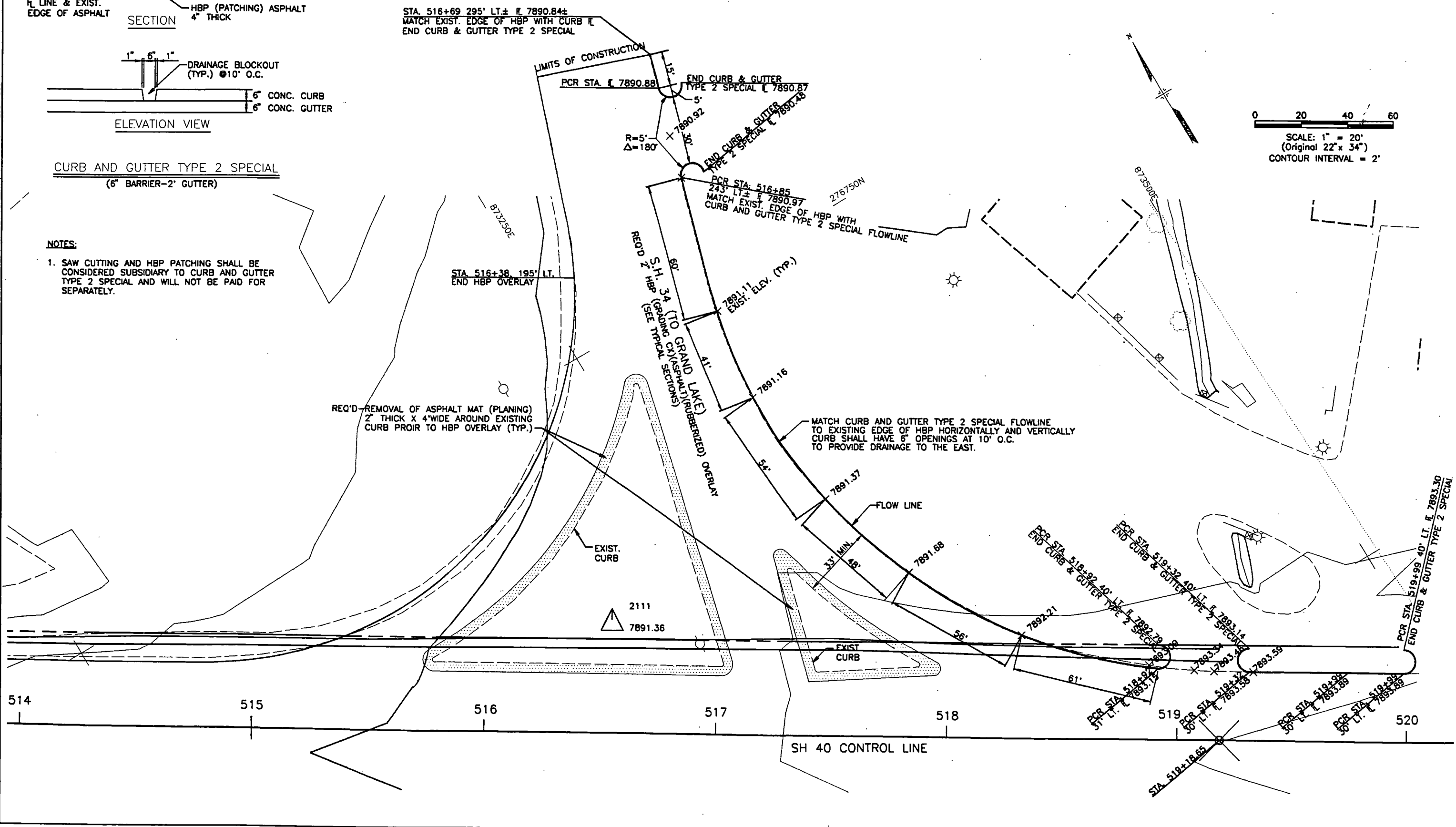
**NOTES:**

1. SAW CUTTING AND HBP PATCHING SHALL BE CONSIDERED SUBSIDIARY TO CURB AND GUTTER TYPE 2 SPECIAL AND WILL NOT BE PAID FOR SEPARATELY.

MERRICK PROJECT: VEST OF GRANBY  
 DESIGNED VS. CHECKED: RFE  
 APPROVED: LFT  
 JOB NUMBER: 203-7680

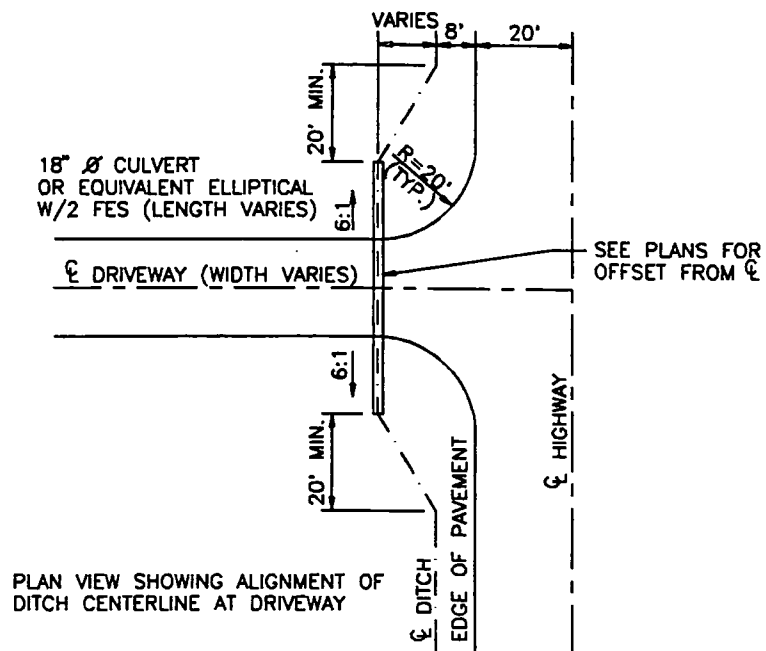
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RT. OF WAY CHECKED	

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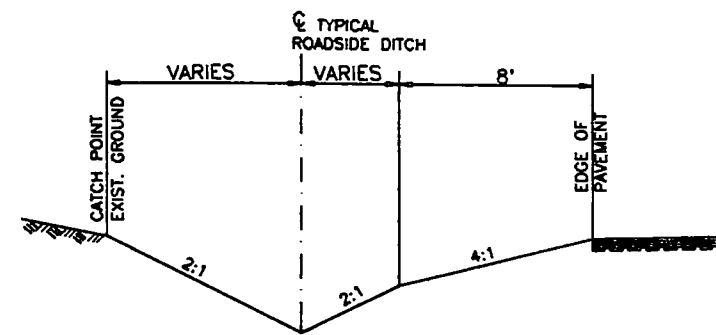


AS CONSTRUCTED			FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VOID	VIII	COLO.	NH(CX) 040-2(34)	29

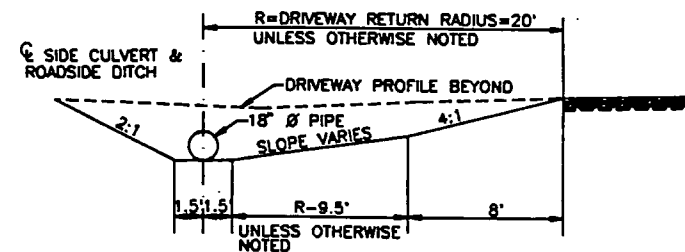
MISC. DETAILS



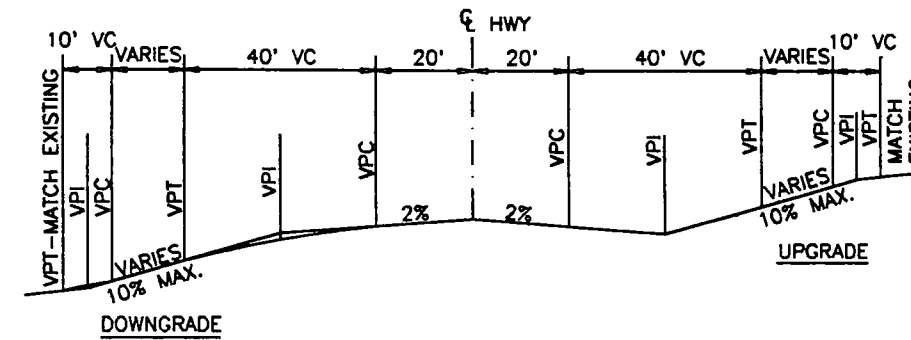
PLAN VIEW - SIDE DITCH CULVERT



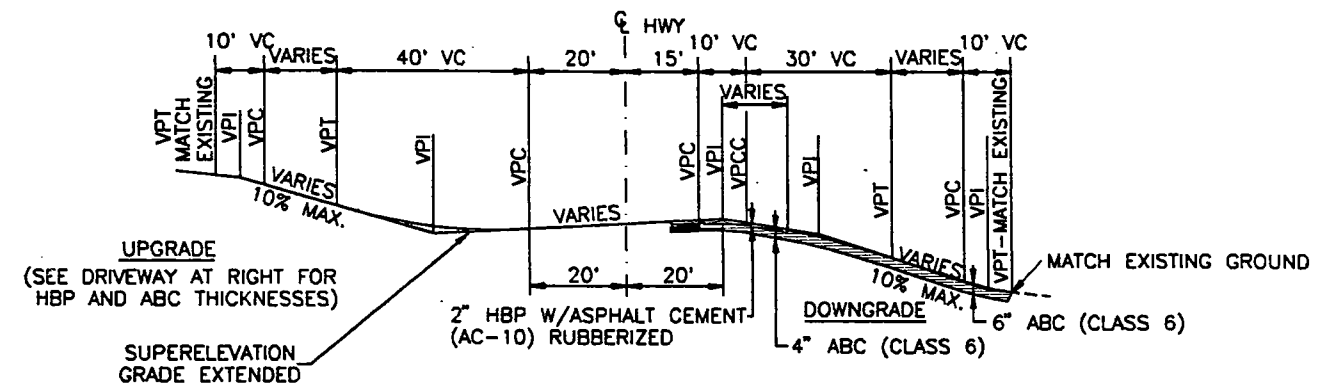
TYPICAL STANDARD ROADSIDE DITCH



TYPICAL STANDARD ROADSIDE DITCH AT SIDE CULVERT ENTRANCES AND EXITS



NORMAL CROWN SECTION  
 (SEE SECTION BELOW FOR HBP AND ABC THICKNESS)



SUPERELEVATED SECTION

TYPICAL DRIVEWAY PROFILES

- NOTES:
1. THE ROADSIDE DITCH IS LOCATED WHERE THE ROADWAY IS IN EXCAVATION OR THE EMBANKMENT SLOPE MATCHES AN EXISTING DITCH.
  2. AT THE DRIVEWAYS, SIDE CULVERT INSTALLATIONS WILL REQUIRE THAT THE CENTERLINE OF THE ROADSIDE DITCH TRANSITION FROM ITS NORMAL LOCATION TO COINCIDE WITH THE CENTERLINE OF THE SIDE CULVERT. AT THE CULVERT ENTRANCES AND EXITS THE BOTTOM OF THE DITCH SHALL BE 3' WIDE.

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN NO.	DATE	BY

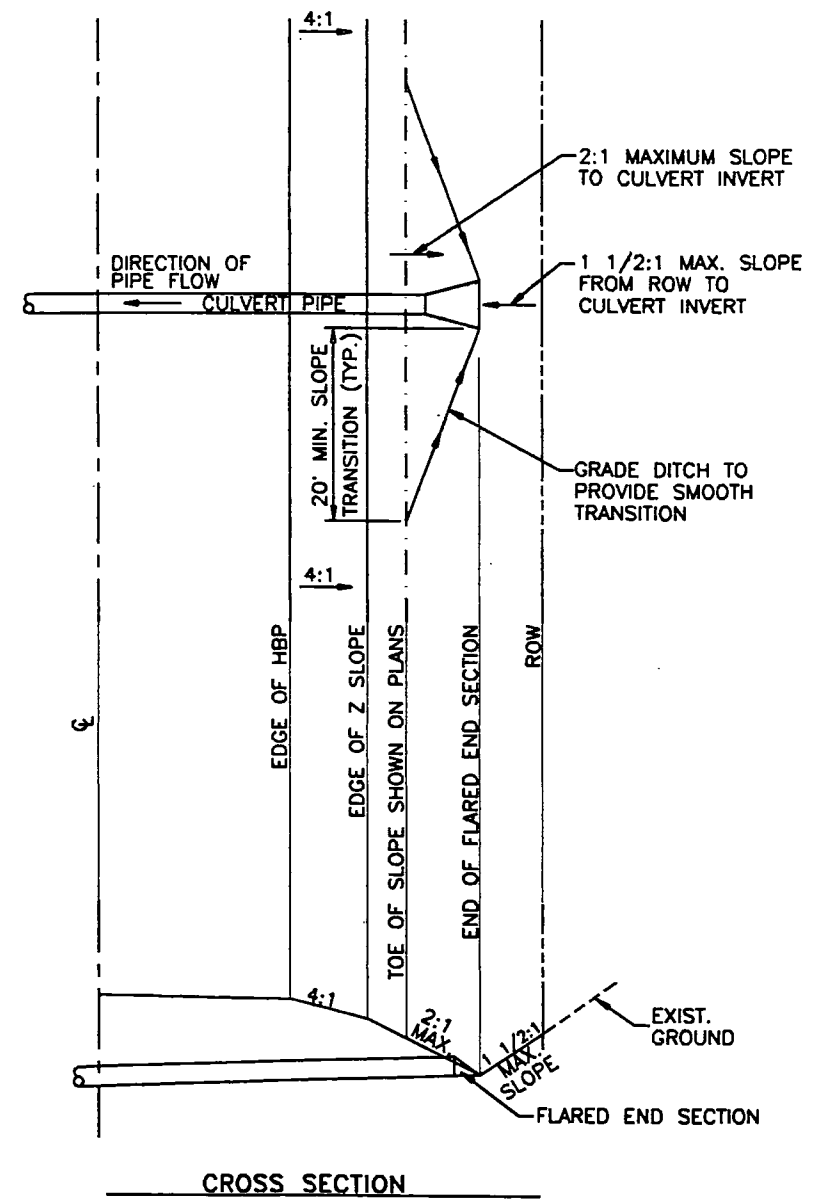
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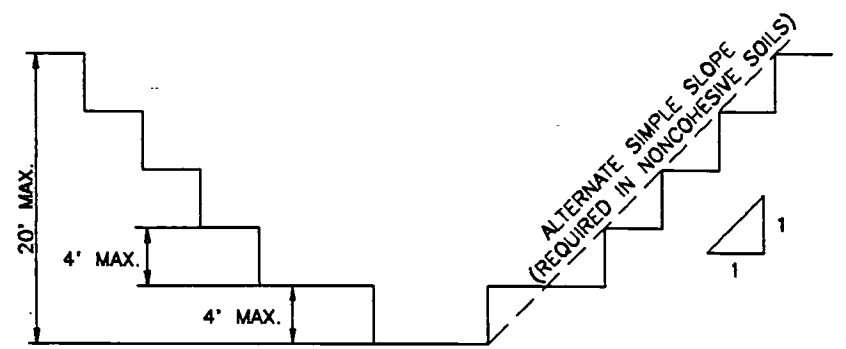
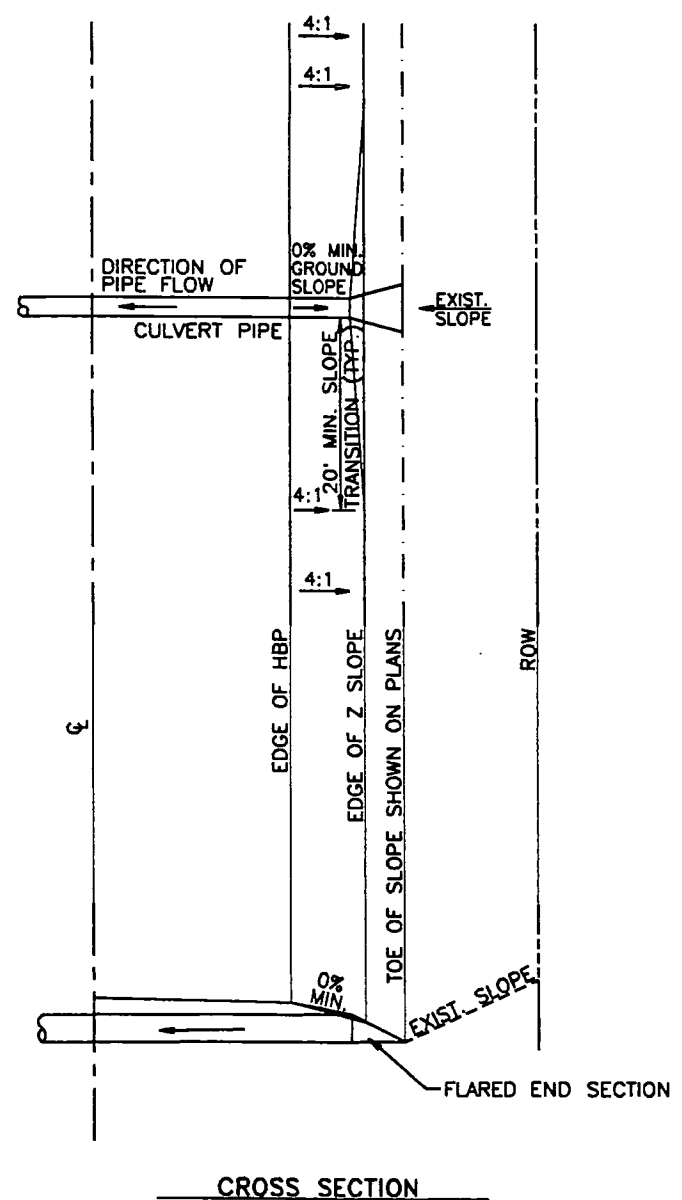
AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VIII	COLO.	NH(CX) 040-2(34)	30

MISC. DETAILS

**SPECIAL CULVERT GRADING PLAN  
 WHEN INVERT IS BELOW TOE OF SLOPE**

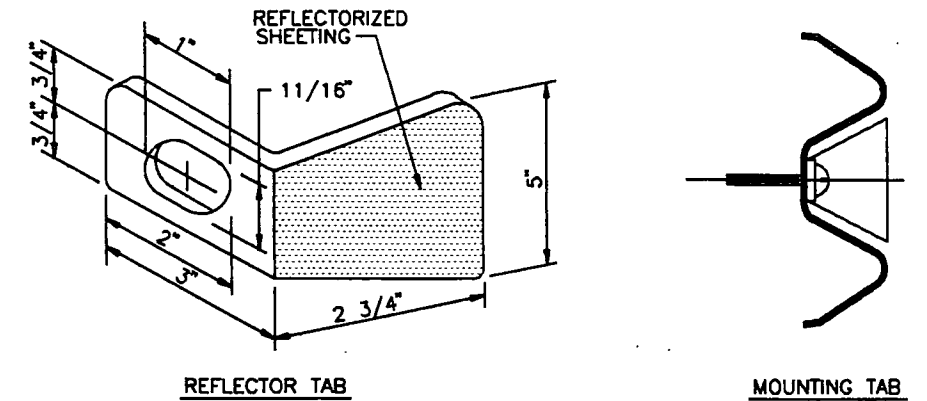


**SPECIAL CULVERT GRADING PLAN  
 WHEN SHALLOW COVER OCCURS  
 DUE TO OUTLET RESTRICTION OR  
 IRRIGATION CONSTRAINT**



ALL EXCAVATION 20 FEET OR LESS IN DEPTH WHICH HAVE VERTICALLY SIDED LOWER PORTIONS SHALL BE SHIELDED OR SUPPORTED TO A HEIGHT AT LEAST 18 INCHES ABOVE THE TOP OF THE VERTICAL SIDE. ALL SUCH EXCAVATIONS SHALL HAVE A MAXIMUM ALLOWABLE SLOPE OF 1:1. ALL EXCAVATIONS IN NONCOHESIVE SOILS SHALL HAVE A MAXIMUM ALLOWABLE SIMPLE SLOPE OF 1:1

**MULTIPLE BENCH  
 O.S.H.A. EXCAVATION STANDARD**



**DETAIL OF GUARD RAIL REFLECTOR TAB**

REFLECTOR TAB SHALL BE MANUFACTURED FROM 14 GAUGE OR HEAVIER GALVANIZED STEEL TO THE DIMENSIONS SHOWN ON DETAIL ABOVE.

SMOOTH SURFACE TYPE REFLECTIVE SHEETING AS SPECIFIED IN SECTION 713.10 OF THE STANDARD SPECIFICATIONS SHALL BE APPLIED TO THE REFLECTOR TAB.

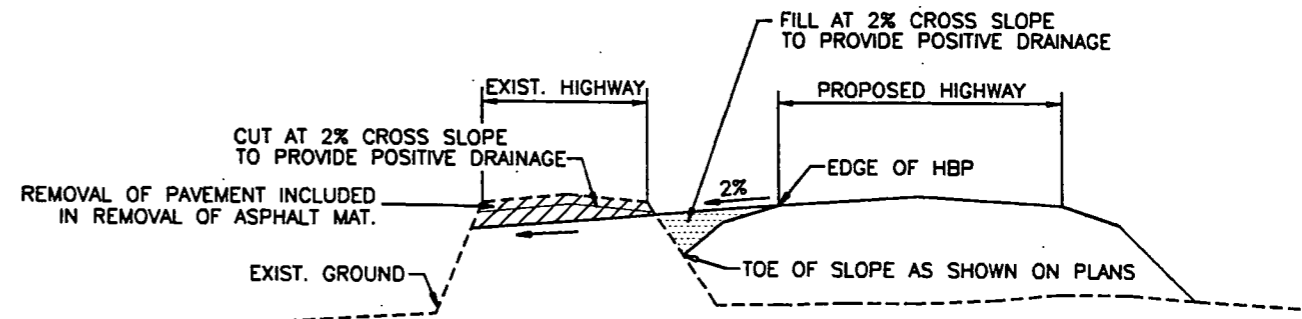
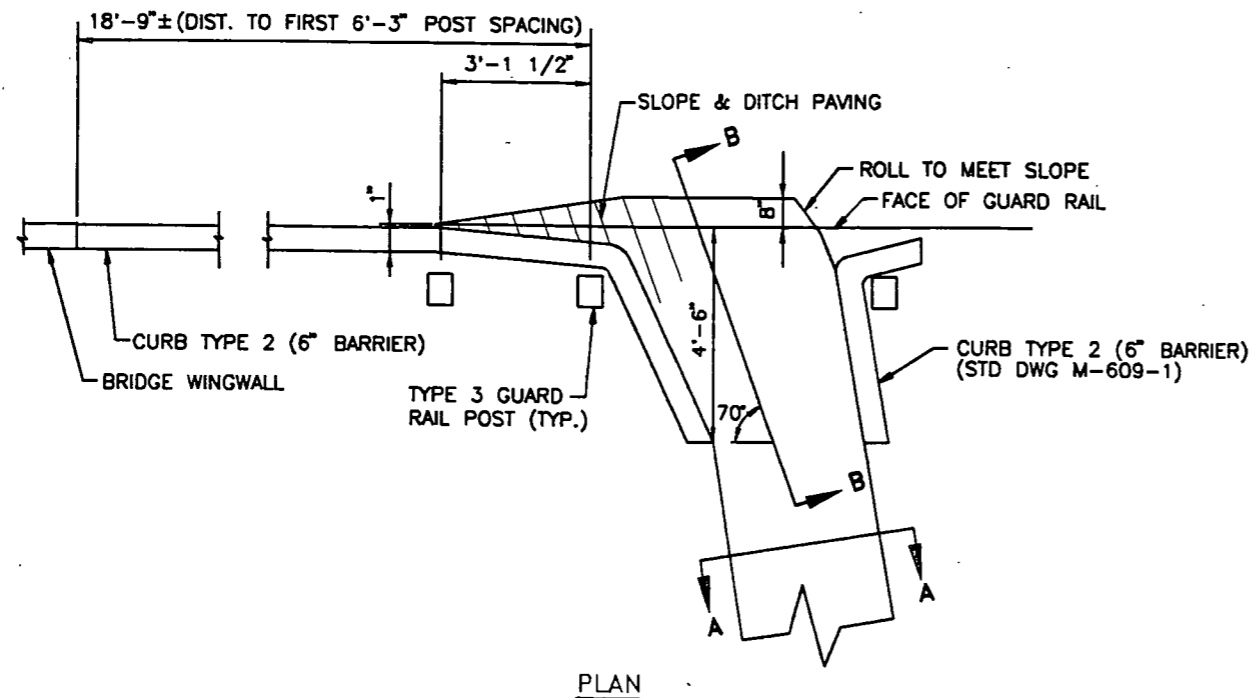
REFLECTOR TAB SHALL BE MOUNTED WITH REFLECTORIZED SURFACE FACING APPROACHING TRAFFIC. REFLECTOR TAB SHALL MATCH THE PAVEMENT MARKING EDGE STRIPE COLOR FOR TWO LANE ROADWAY, BOTH SIDES OF TAB SHALL BE REFLECTORIZED. REFLECTOR TABS SHALL BE MOUNTED ON ALL GUARD RAIL TYPE 3 AT ALTERNATE POSTS OR A MINIMUM SPACING OF 12'-6" BEGINNING AT THE NINTH POST FROM THE END SECTION. IF THE TAB SHOULD FALL ON A GUARD RAIL SPLICE, A RECTANGULAR WASHER SHALL BE PLACED BETWEEN THE REFLECTOR TAB AND THE GUARD RAIL.

REFLECTOR TABS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF GUARD RAIL.

SEE COLORADO STANDARD PLANS M-606-1 FOR GUARD RAIL STANDARDS.

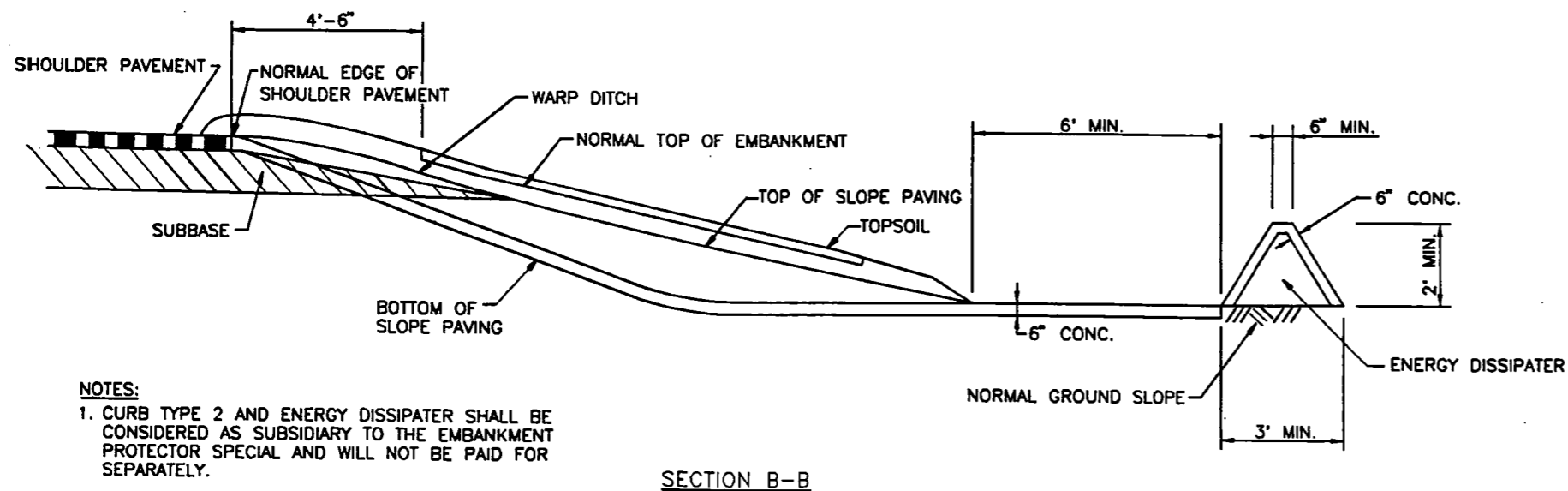
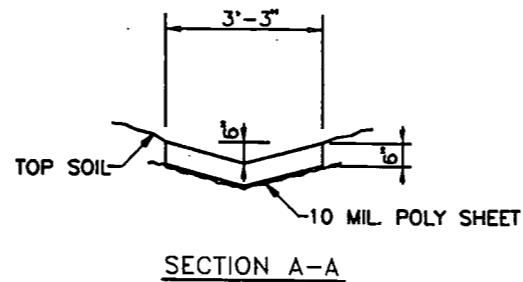
AS CONSTRUCTED			
NO REVISIONS	REVISED	VOID	
FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII.	COLO.	NH(CX) 040-2(34)	31

MISCELLANEOUS DETAILS



EARTHWORK TO CUT EXISTING HIGHWAY AND FILL AREA BETWEEN EXISTING HIGHWAY AND PROPOSED HIGHWAY WILL BE PAID FOR UNDER ITEM NO. 203 (BLADING)

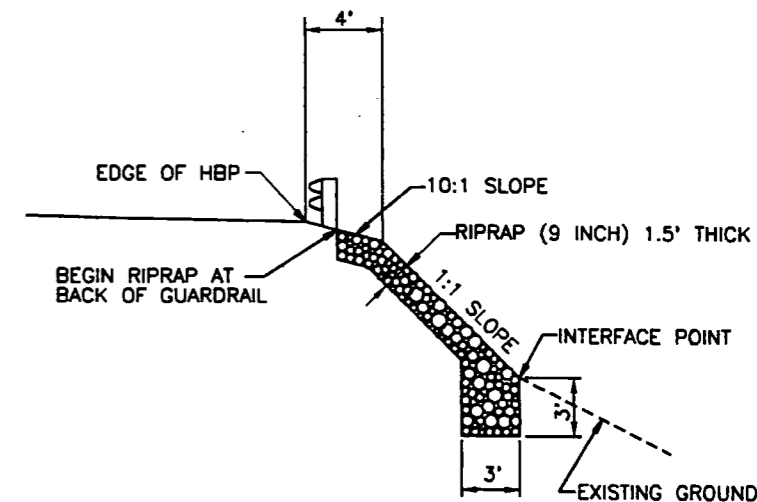
CROSS SECTION GRADING DETAIL  
 (STA. 446+00 TO 472+08)



NOTES:  
 1. CURB TYPE 2 AND ENERGY DISSIPATER SHALL BE CONSIDERED AS SUBSIDIARY TO THE EMBANKMENT PROTECTOR SPECIAL AND WILL NOT BE PAID FOR SEPARATELY.

SECTION B-B

EMBANKMENT PROTECTOR SPECIAL DETAILS



ROCK FILL DETAIL  
 (STA. 360+50 TO 364+50 RT.)

01/22/93 16:19:45 C:\GRANBY\FOR DET2 D 203-768011 RMH

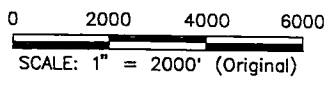
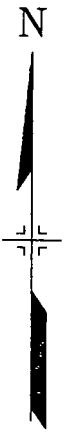


FED. ROAD REGION	DIVISION	PROJ. NO.	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	32

### SURVEY CONTROL SYSTEM AND ALIQUOT CORNERS

#### SURVEY CONTROL SYSTEM

PT#	MP#	NORTHING	EASTING	ELEV
2014	201.4	270715.357	830445.703	7698.88
2016	201.6	270543.045	831217.850	7694.41
2018	201.8	270445.069	832385.426	7735.43
2020	202.0	270478.285	833199.204	7744.82
2022	202.2	270845.407	833888.293	7747.58
2024	202.4	271916.044	834948.228	7719.56
2027	202.7	272648.102	835924.693	7718.41
2028	202.8	273204.695	836520.195	7711.49
2031	203.1	273770.662	837662.912	7706.51
2033	203.3	274438.157	838669.380	7717.44
2035	203.5	274604.353	839469.324	7722.00
2037	203.7	275087.865	840530.803	7762.12
2039	203.9	275771.412	840982.746	7766.55
2040	204.0	276552.248	841514.263	7772.48
2042	204.2	277403.624	842560.845	7820.45
2045	204.5	277971.518	843700.039	7752.44
2047	204.7	278513.499	844776.656	7762.64
2049	204.9	278782.658	845939.890	7747.14
2053	205.3	279396.549	847582.962	7793.91
2055	205.5	279597.373	848834.743	7789.18
2059	205.9	279806.458	850879.896	7770.04
2062	206.2	279987.069	852188.145	7826.39
2063	206.3	280230.721	852752.789	7815.33
2065	206.5	281146.907	853542.938	7771.02
2068	206.8	282304.659	854356.955	7816.11
2070	207.0	283168.355	855370.385	7808.41
2073	207.3	283147.916	856977.360	7793.68
2075	207.5	283225.441	857743.332	7790.04
2077	207.7	283135.979	858609.310	7797.74
2079	207.9	283289.874	859790.150	7796.06
2084	208.4	284139.080	862267.068	7841.90
2086	208.6	284076.063	863525.603	7841.47
2089	208.9	284051.272	864786.104	7856.33
2091	209.1	283606.062	865761.952	7846.73
2093	209.3	283441.628	866794.534	7860.92
2096	209.6	282782.430	868224.298	7879.46
2099	209.9	281275.752	868598.906	7858.22
2102	210.2	279964.026	869278.505	7841.83
2104	210.4	278741.410	869894.139	7852.33
2107	210.7	277976.989	870995.440	7862.67
2109	210.9	277275.137	872013.332	7878.23
2111	211.1	276645.079	873204.122	7891.36



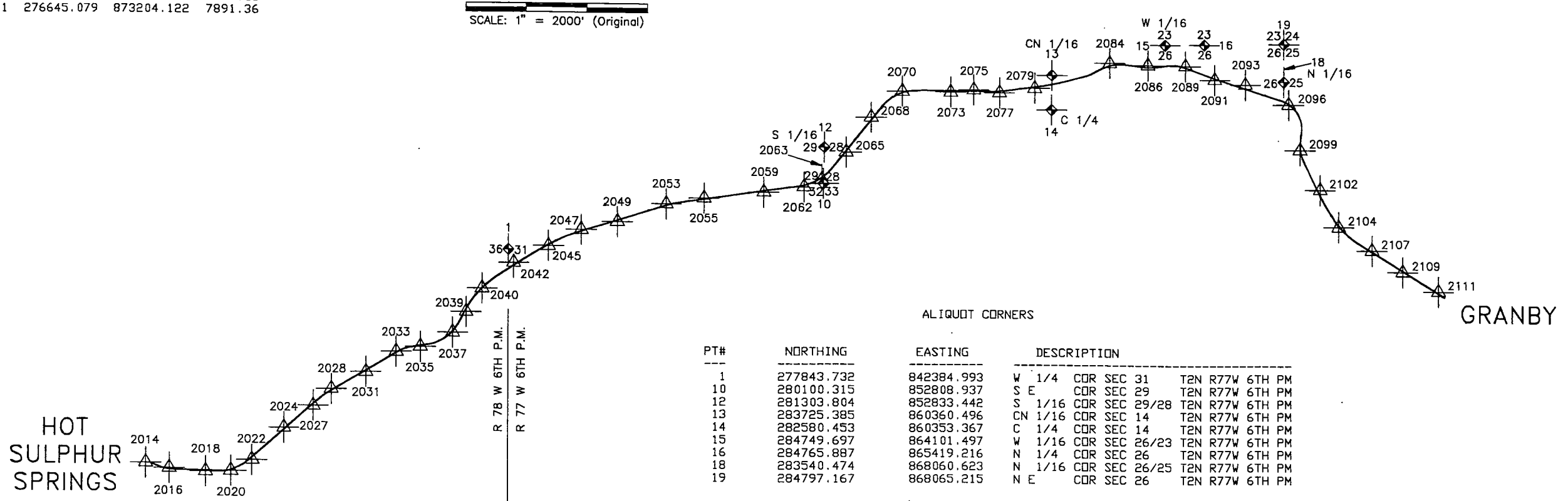
#### COORDINATE DATUM INFORMATION

DATUM: NAD83  
 ZONE: 0501 COLORADO NORTH  
 STATE PLANE IN: US SURVEY FEET

NOTE: COORDINATES ARE MODIFIED STATE PLANE COORDINATES  
 BASED ON AN AVERAGE ELEVATION OF 7698.88 FEET AND AN AVERAGE  
 LATITUDE OF 40° 06' 08.99910" IN THE COLORADO NORTH ZONE (NAD83).

SEA LEVEL FACTOR = 0.999631874  
 SCALE FACTOR = 0.999960174  
 COMBINED FACTOR = 1.000408102

1,000,000 WAS SUBTRACTED FROM THE NORTHING TO GET PROJECT COORDINATES  
 2,000,000 WAS SUBTRACTED FROM THE EASTING TO GET PROJECT COORDINATES



PT#	NORTHING	EASTING	DESCRIPTION
1	277843.732	842384.993	W 1/4 COR SEC 31 T2N R77W 6TH PM
10	280100.315	852808.937	S E COR SEC 29 T2N R77W 6TH PM
12	281303.804	852833.442	S 1/16 COR SEC 29/28 T2N R77W 6TH PM
13	283725.385	860360.496	CN 1/16 COR SEC 14 T2N R77W 6TH PM
14	282580.453	860353.367	C 1/4 COR SEC 14 T2N R77W 6TH PM
15	284749.697	864101.497	W 1/16 COR SEC 26/23 T2N R77W 6TH PM
16	284765.887	865419.216	N 1/4 COR SEC 26 T2N R77W 6TH PM
18	283540.474	868060.623	N 1/16 COR SEC 26/25 T2N R77W 6TH PM
19	284797.167	868065.215	N E COR SEC 26 T2N R77W 6TH PM

UTILITY CONTACTS

Name	Contact	Phone No.
Granby Public Works (W & S)	Shorty Holmes	887-2448
Hot Sulphur Springs (W & S)	Gary Eddy	725-3380
Public Service Company (Granby)	Gary Salisbury	887-3387
Mountain Parks Electric (Granby)	Rod Broome	887-3378
U.S. West Communications (Silverthorne)	Terry Baker	887-2526
Heritage Cablevision (Granby)	Jim Steffen	887-2175
Division of Water Resources (Ditches)	Jim Daxton	726-5253
Northern Colorado Water Conservancy District	Dennis Baker	667-2437
Tri-State Generation and Transmission (Denver)	Paul Johnson	452-6111

T2N, R77W, 6th. PM

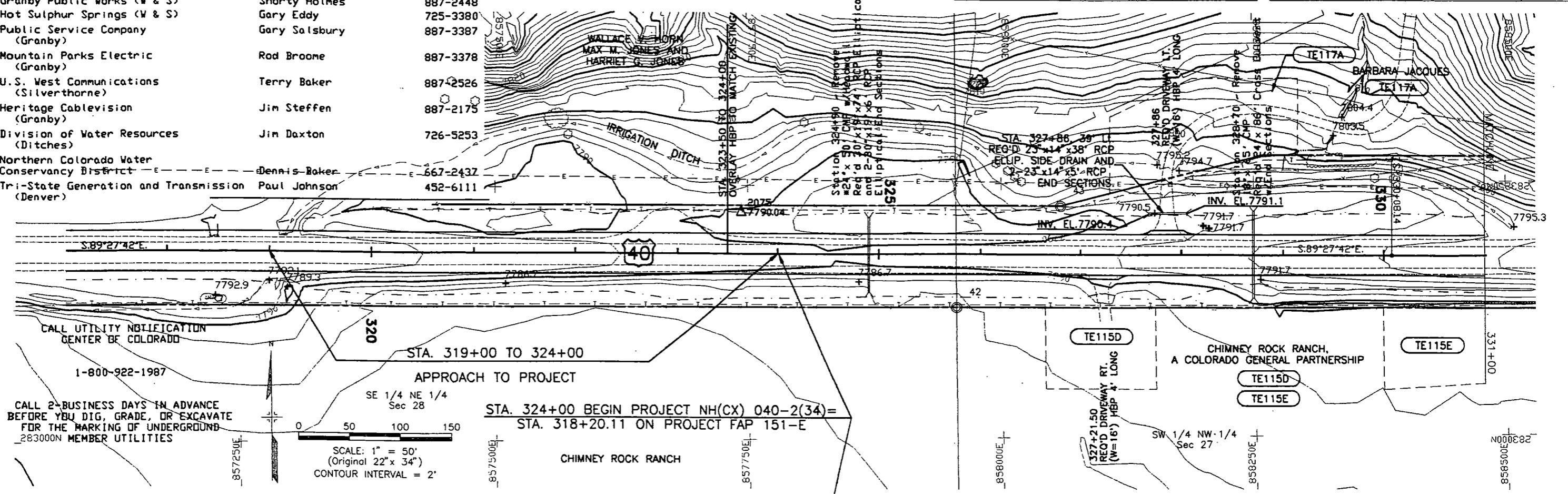
AS CONSTRUCTED

NO REVISIONS  REVISED  VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	49

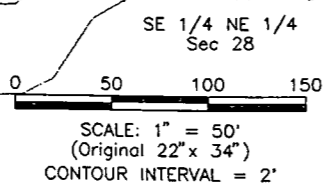
MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN	DATE
BY	
DATE	
BY	
DATE	



CALL UTILITY NOTIFICATION CENTER OF COLORADO  
 1-800-922-1987

CALL 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES

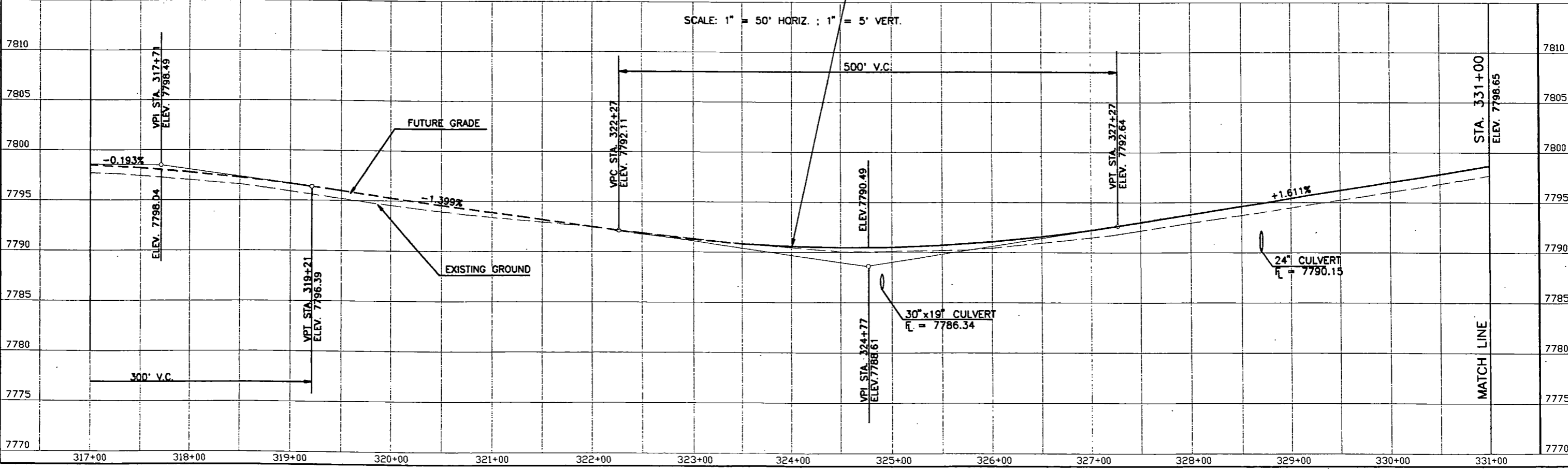


STA. 319+00 TO 324+00  
 APPROACH TO PROJECT

SE 1/4 NE 1/4 Sec 28

STA. 324+00 BEGIN PROJECT NH(CX) 040-2(34) = STA. 318+20.11 ON PROJECT FAP 151-E

SCALE: 1" = 50' HORIZ. ; 1" = 5' VERT.



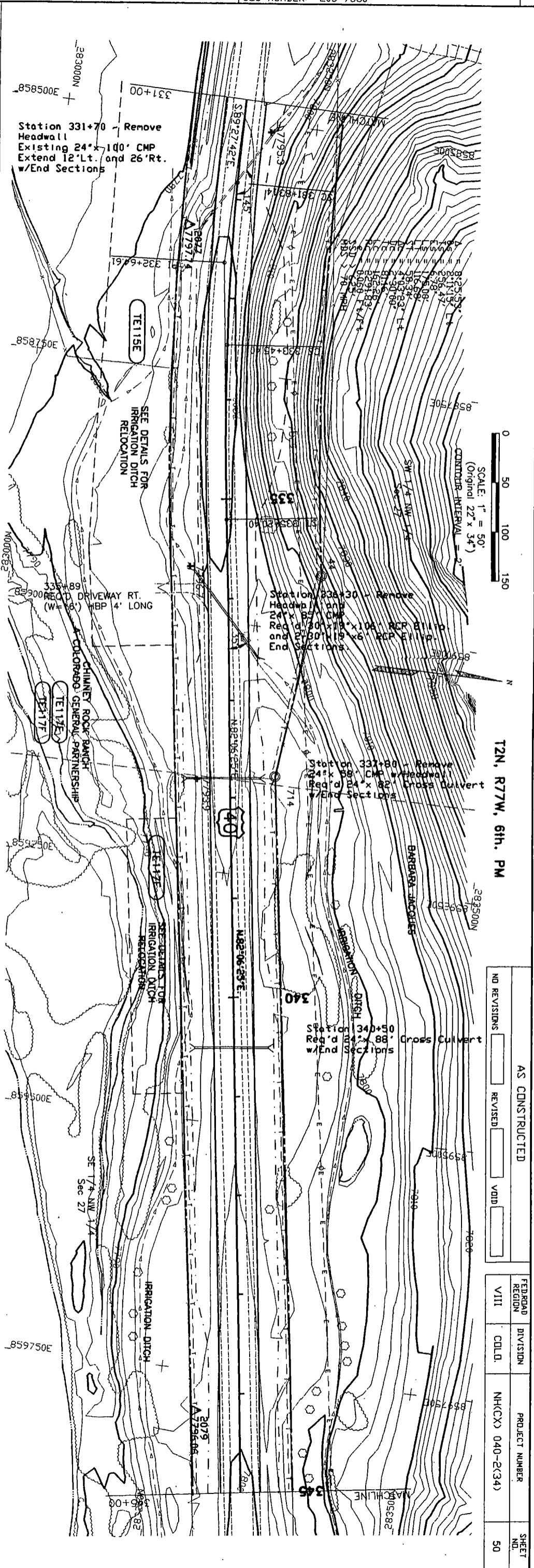
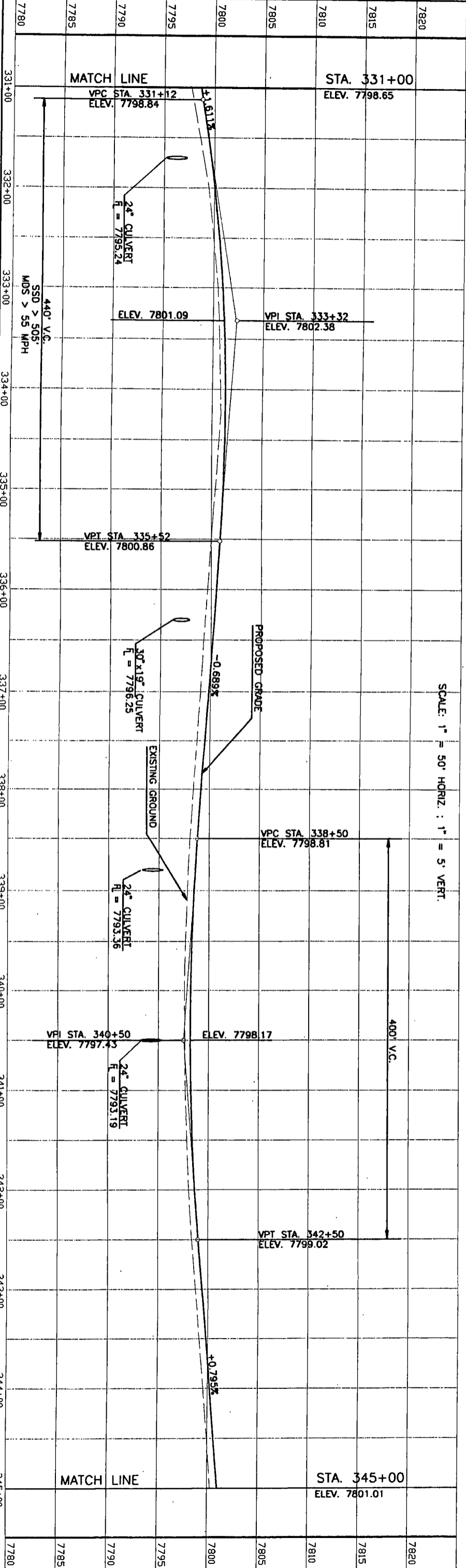
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PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY  
DESIGNED: WS CHECKED: MFE APPROVED: LFT  
JOB NUMBER: 203-7680

01/21/93 16:19:45 C:\GRANBY\PP\FORPP28 D 203-768011 WS

STATE OF COLORADO  
DEPARTMENT OF TRANSPORTATION  
SECTION OF HIGHWAYS  
FORM NO. 134  
JULY 1982



T2N, R77W, 6th. PM

NO REVISIONS	AS CONSTRUCTED	FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
REVISED	VOID	VIII	COLL. D.	NH(CX) 040-2(34)	50

AS CONSTRUCTED

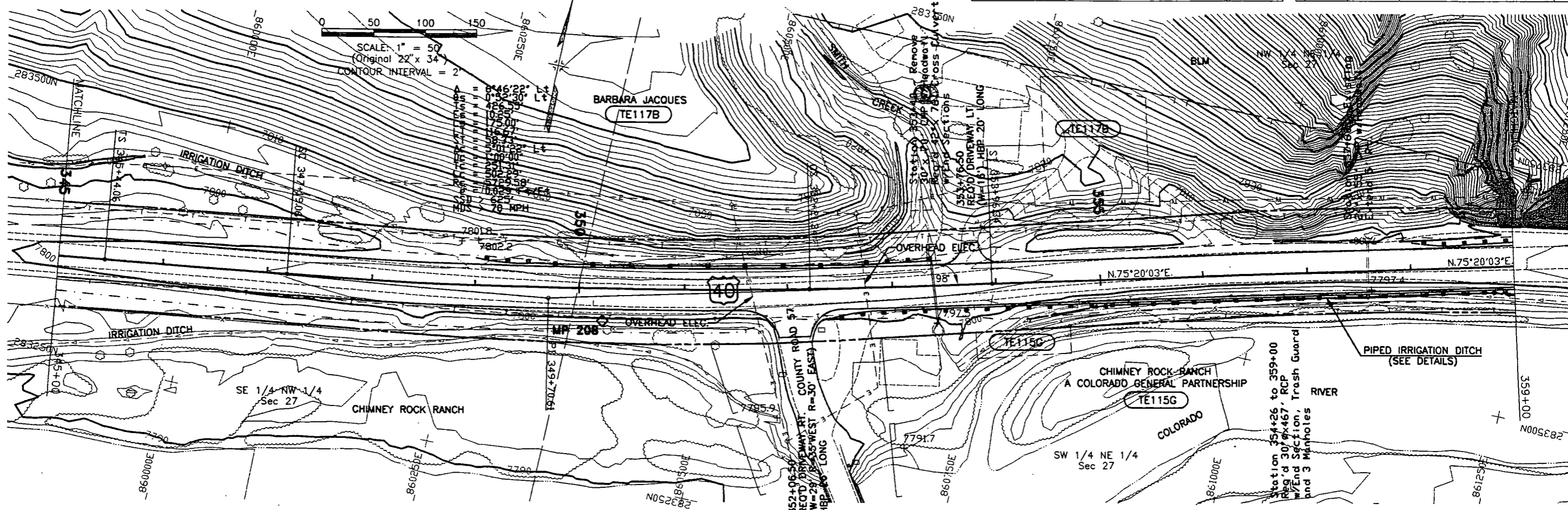
NO REVISIONS  REVISED  VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	51

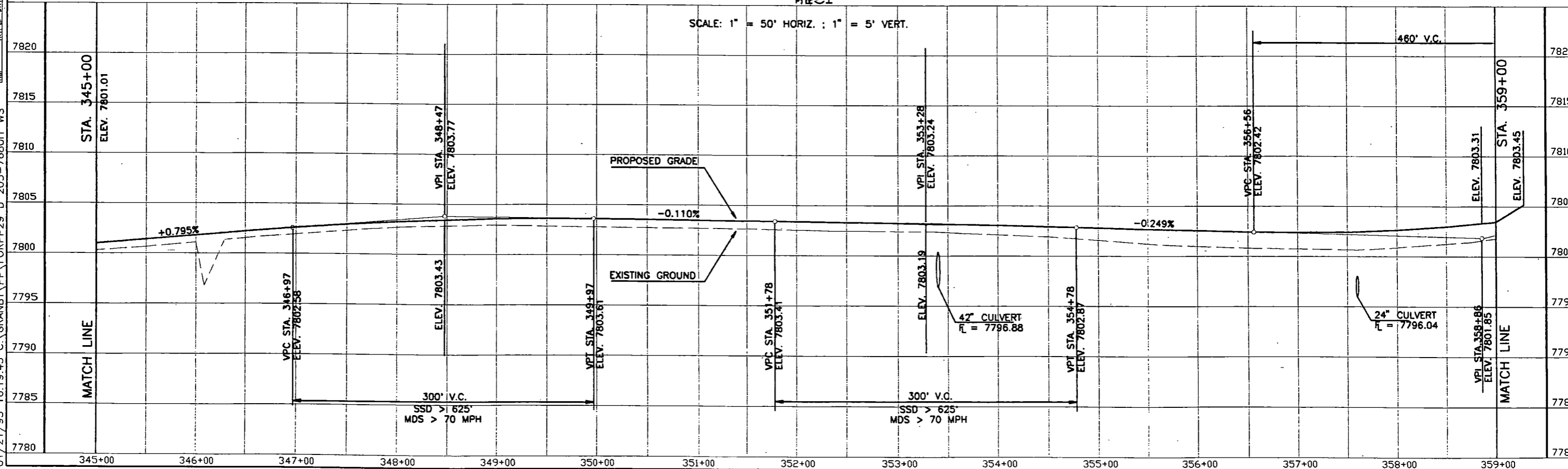
MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	

T2N, R77W, 6th. PM



SCALE: 1" = 50' HORIZ. ; 1" = 5' VERT.

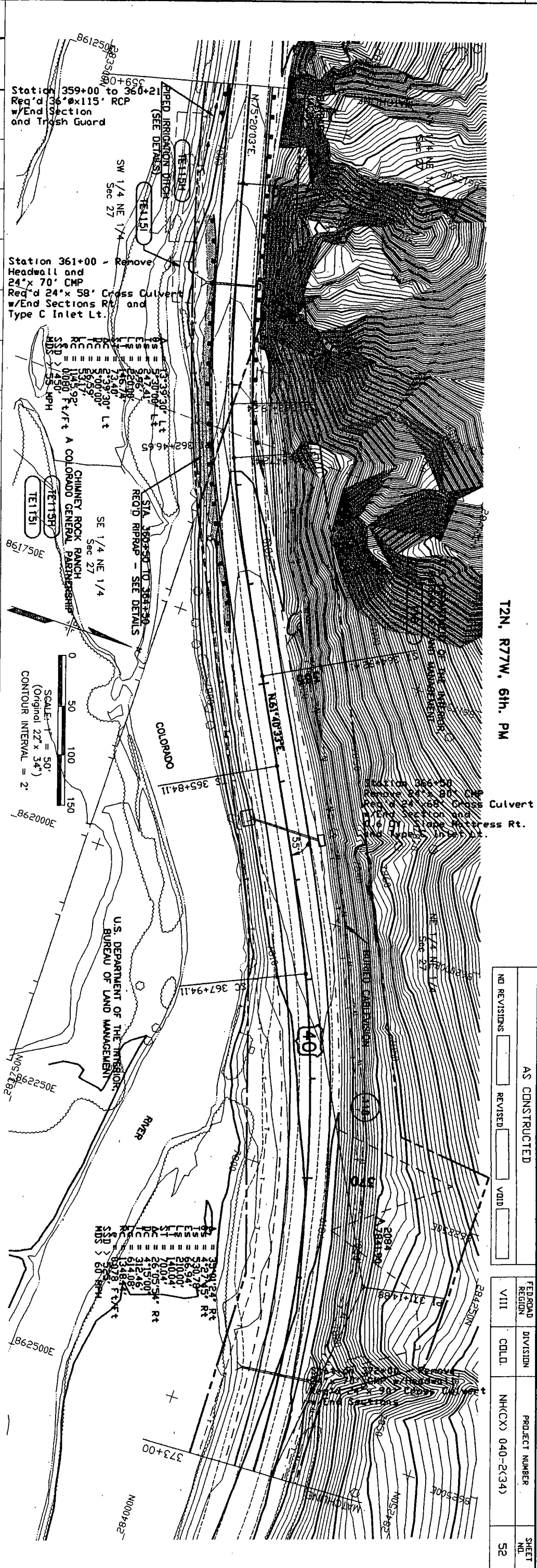
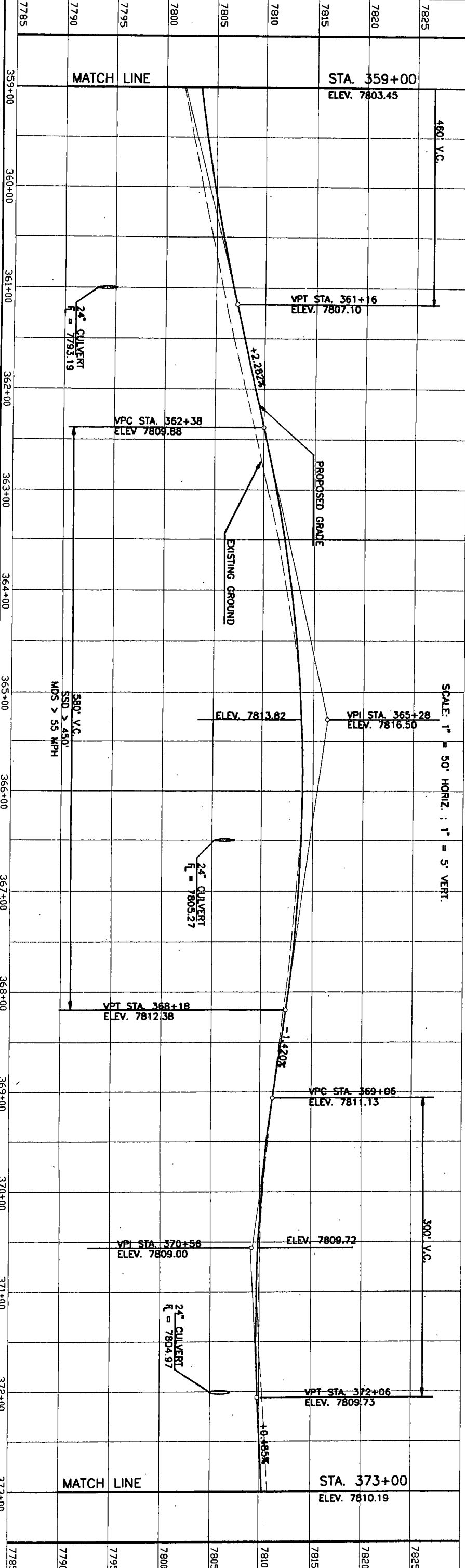


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PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY			
DESIGNED: WS	CHECKED: MFE	APPROVED: LFT	
JOB NUMBER: 203-7680			

15 OF COLORADO  
STATE OF HIGHWAYS  
FORM NO. 134  
JULY 1992



T2N, R77W, 6th. PM

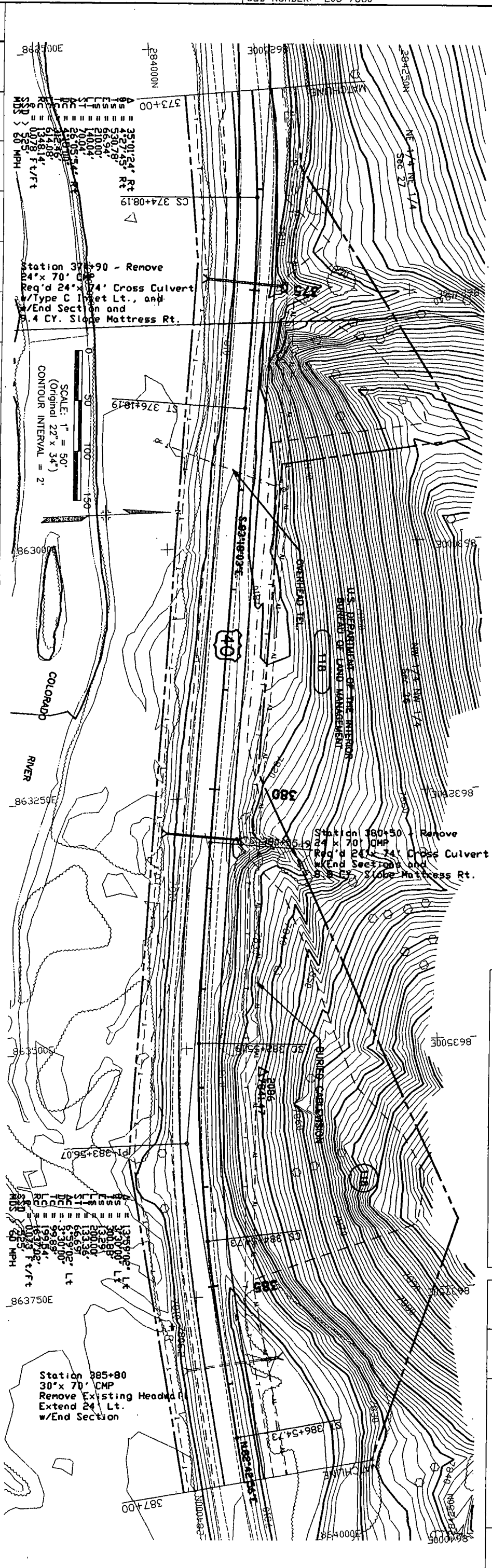
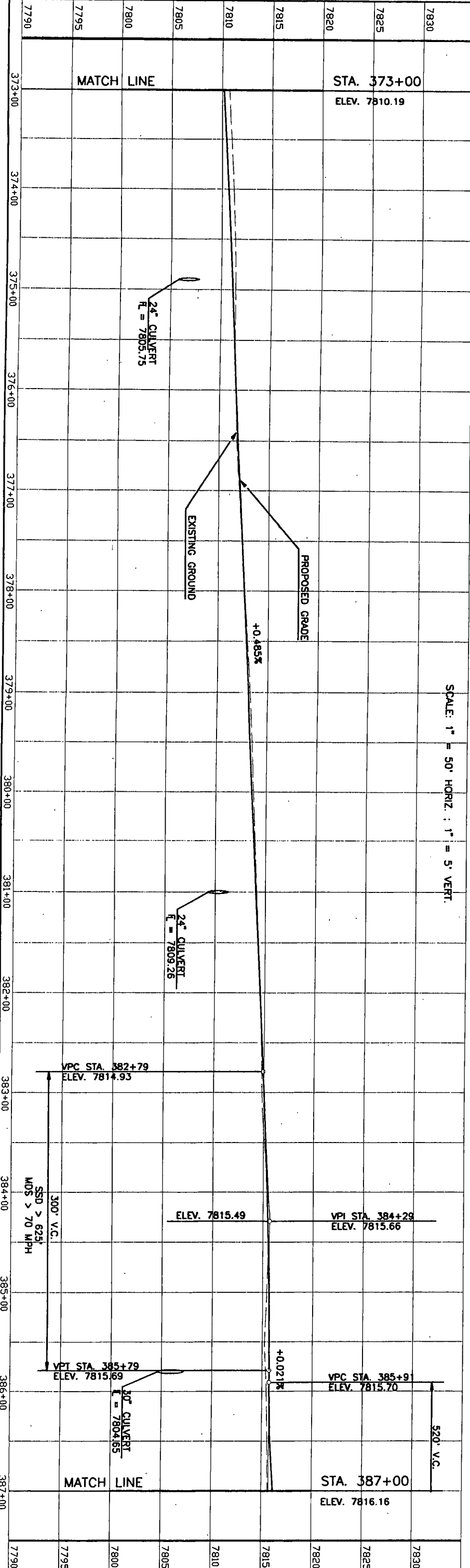
AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VIII	COLL.	NH(CX) 040-2(34)	52



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PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680



T2N, R77W, 6th. PM

AS CONSTRUCTED

NO REVISIONS	REVISED	VOID
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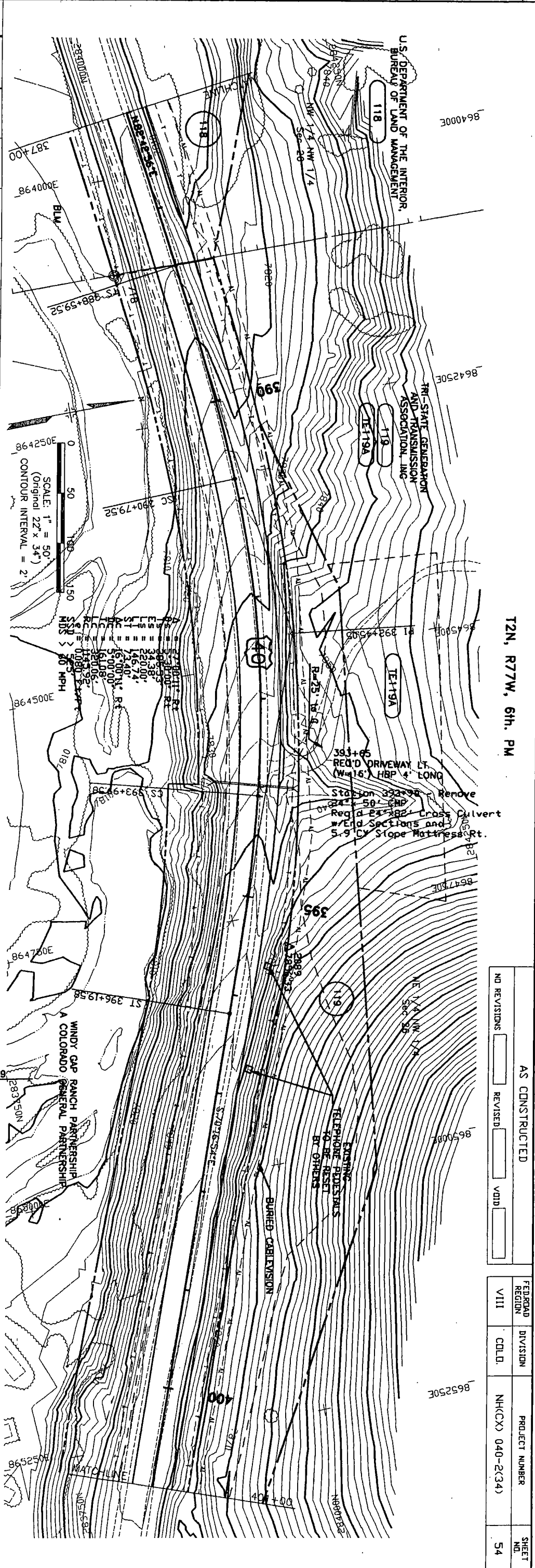
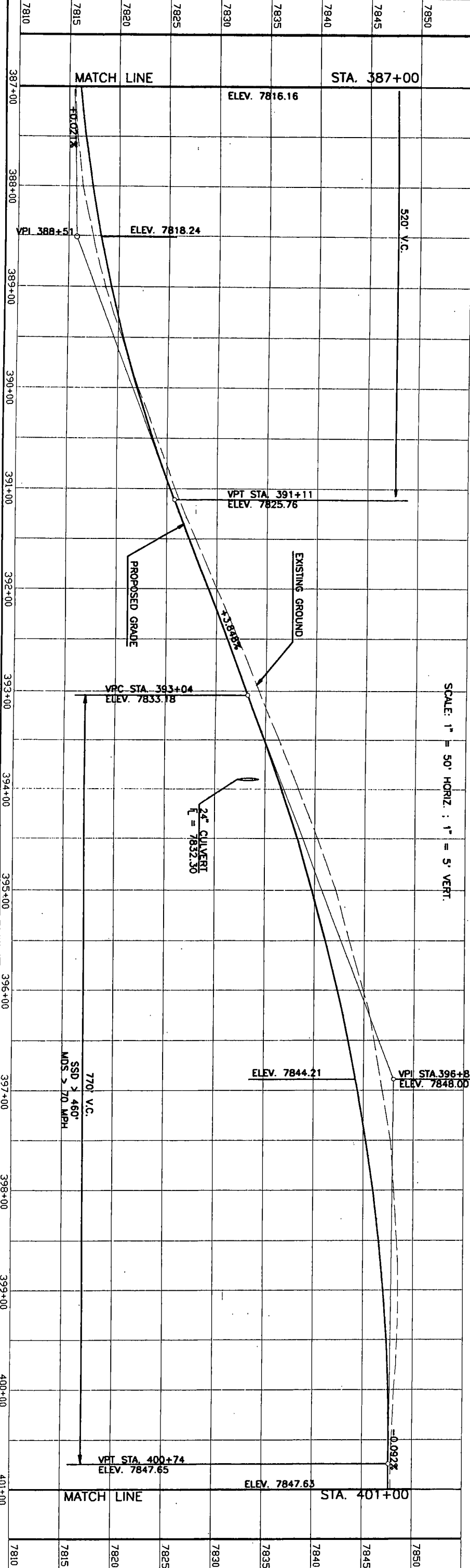
FEDERAL REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	CCLD	NHCX) 040-2(34)	53

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY  
DESIGNED: WS CHECKED: MFE APPROVED: LFT  
JOB NUMBER: 203-7680

01/21/93 16:19:45 C:\GRANBY\PP\FORPP32 D 203-768011 WS

STATE OF COLORADO  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
DATE: JULY 1993



T2N, R77W, 6th. PM

AS CONSTRUCTED	
NO REVISIONS	REVISED
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FEDERAL REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLL.	NHCX) 040-(2)34	54

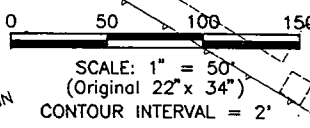
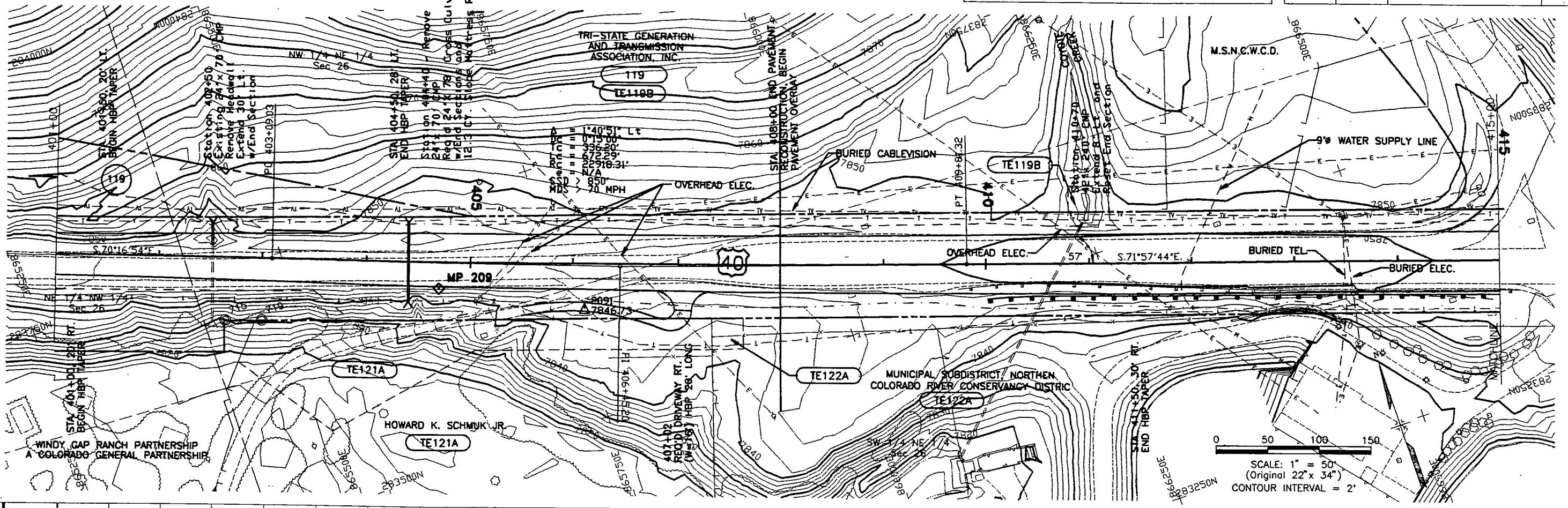
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 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN NO.	DATE	BY	REVISIONS

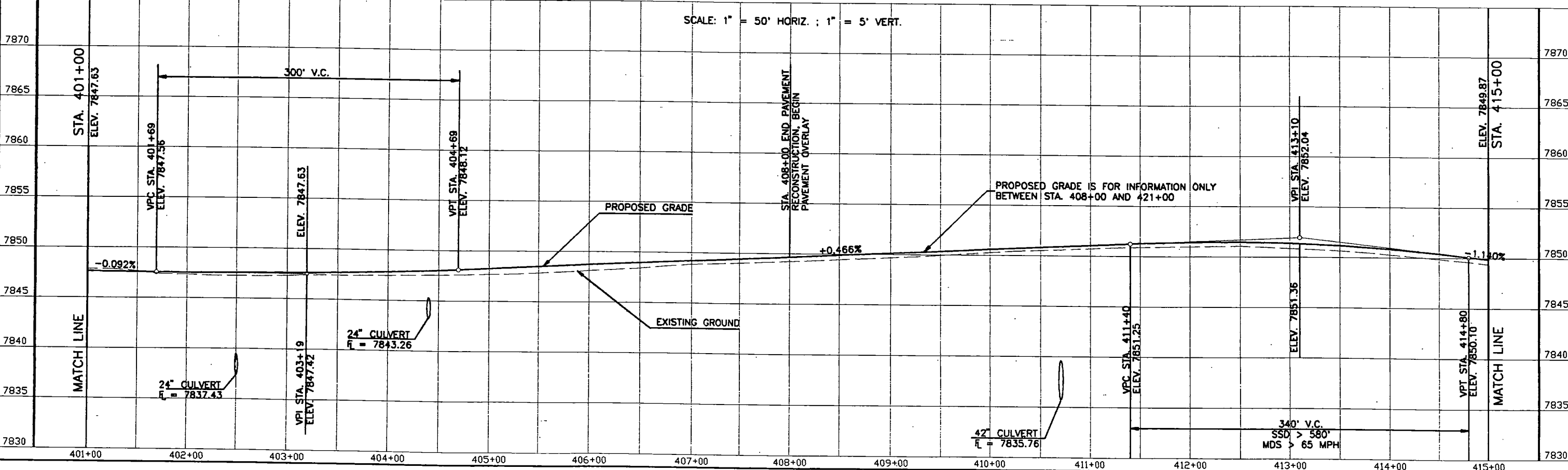
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AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VIII	COLD.	NHCCX) 040-2(34)	55

T2N, R77W, 6th. PM



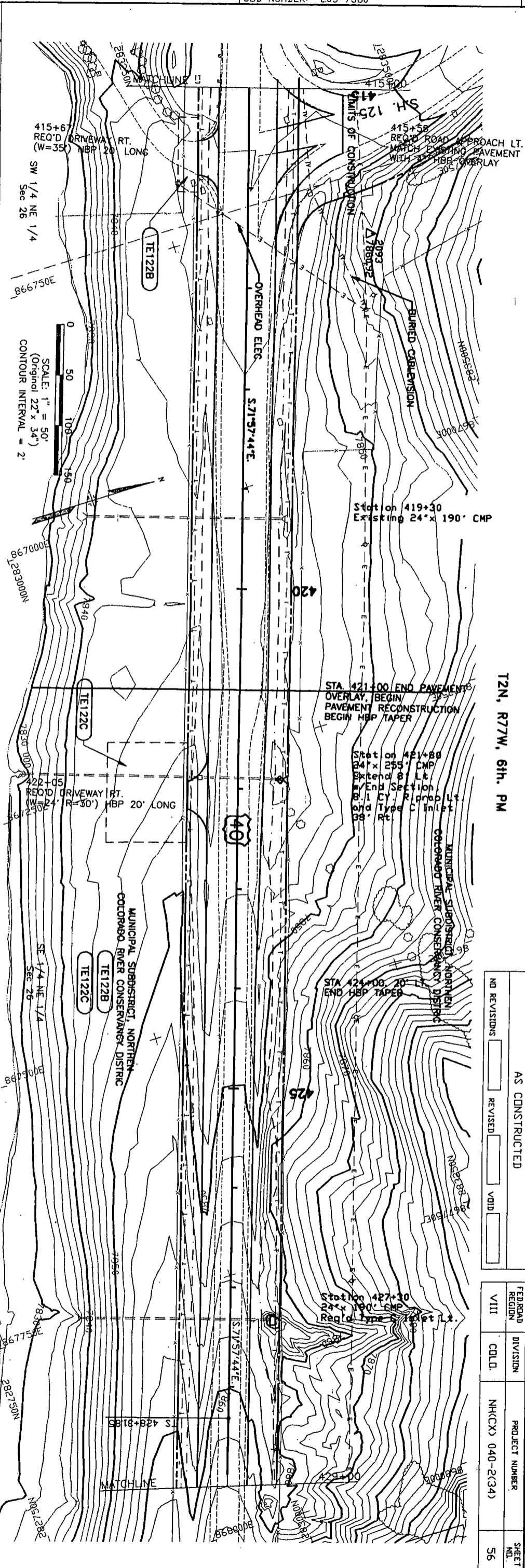
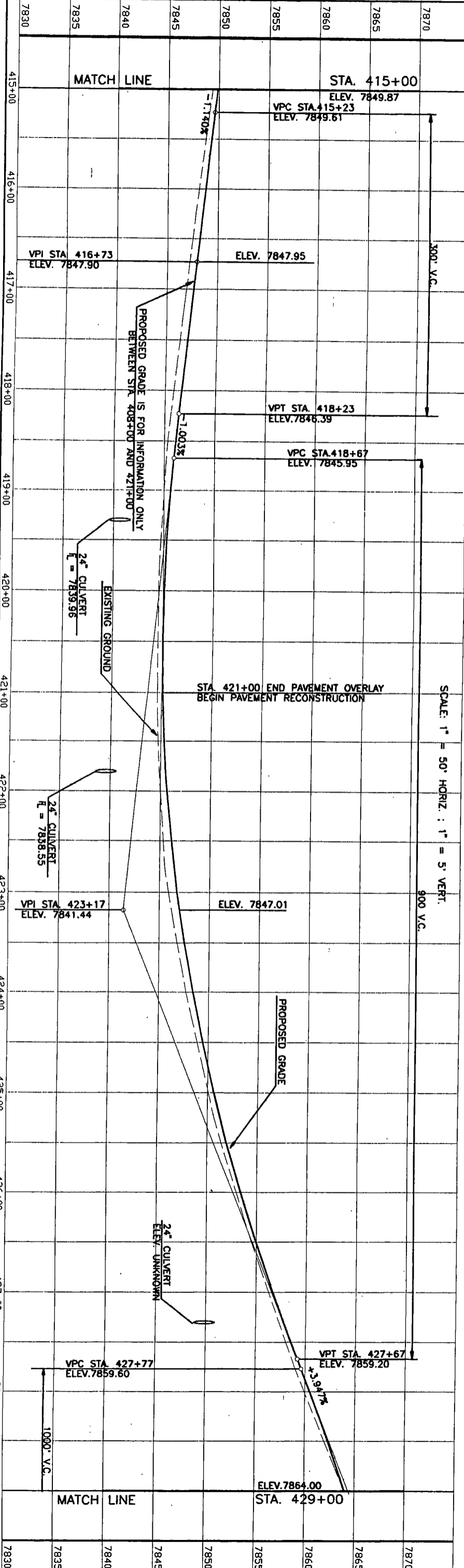
SCALE: 1" = 50' HORIZ. ; 1" = 5' VERT.



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY		
DESIGNED: WS	CHECKED: MFE	APPROVED: LFT
JOB NUMBER: 203-7680		

STATE OF COLORADO  
DEPARTMENT OF TRANSPORTATION  
FOPR NO. 134  
JULY 1992



T2N, R77W, 6th. PM

AS CONSTRUCTED	
NO REVISIONS	REVISED
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FEDERAL REGION	VIII
DIVISION	CDL
PROJECT NUMBER	NH(CX) 040-2(34)
SHEET NO.	56

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
ALIGNMENT	CHECKED		
REL. OF WAY	CHECKED		

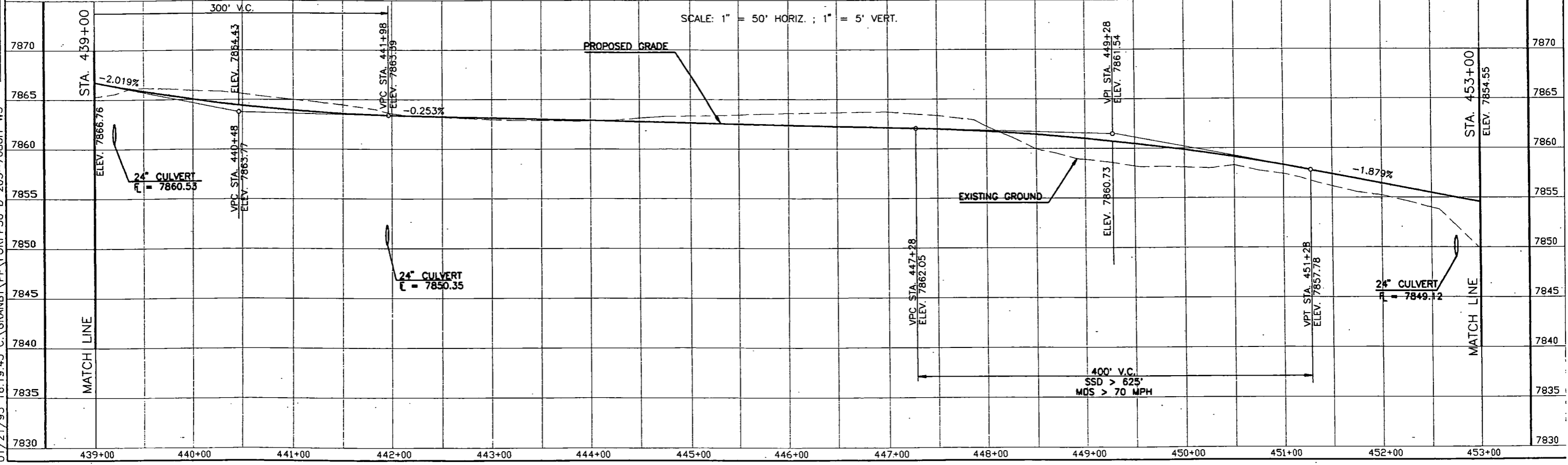
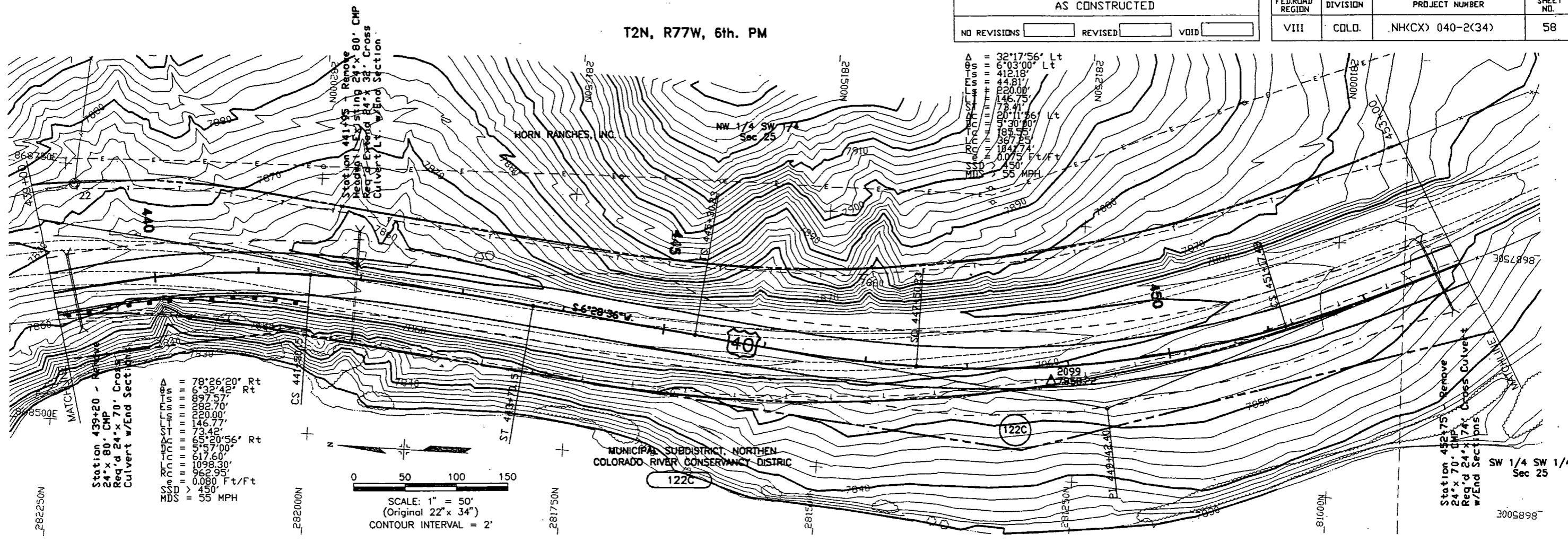
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**MERRICK**  
 TRANSPORTATION

T2N, R77W, 6th. PM

AS CONSTRUCTED  
 NO REVISIONS  REVISED  VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLD.	NH(CX) 040-2(34)	58



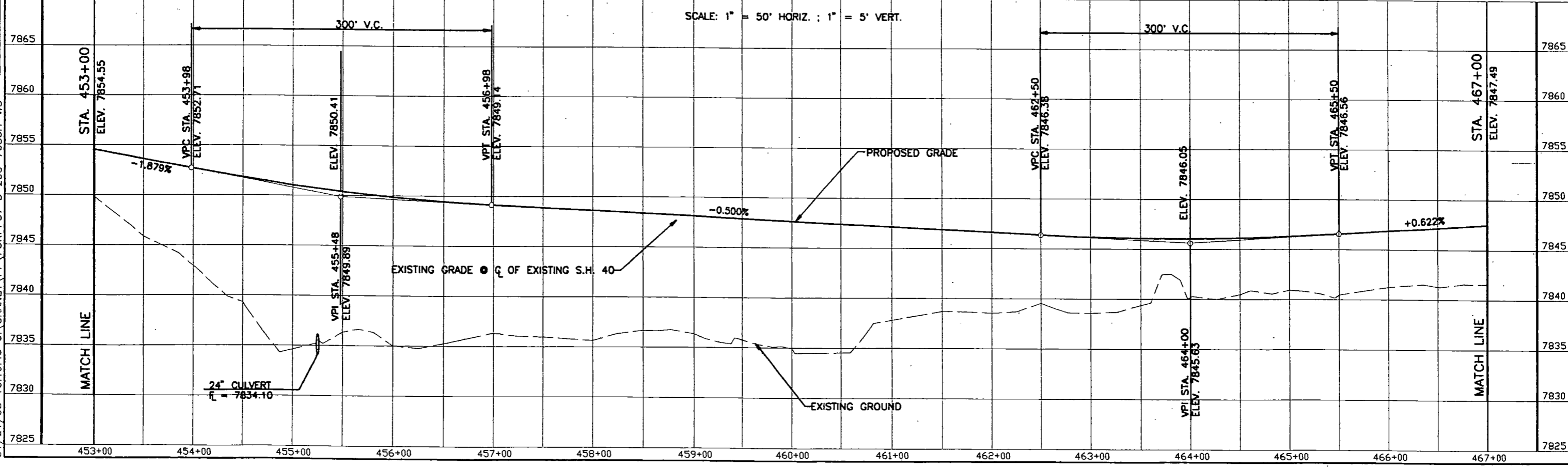
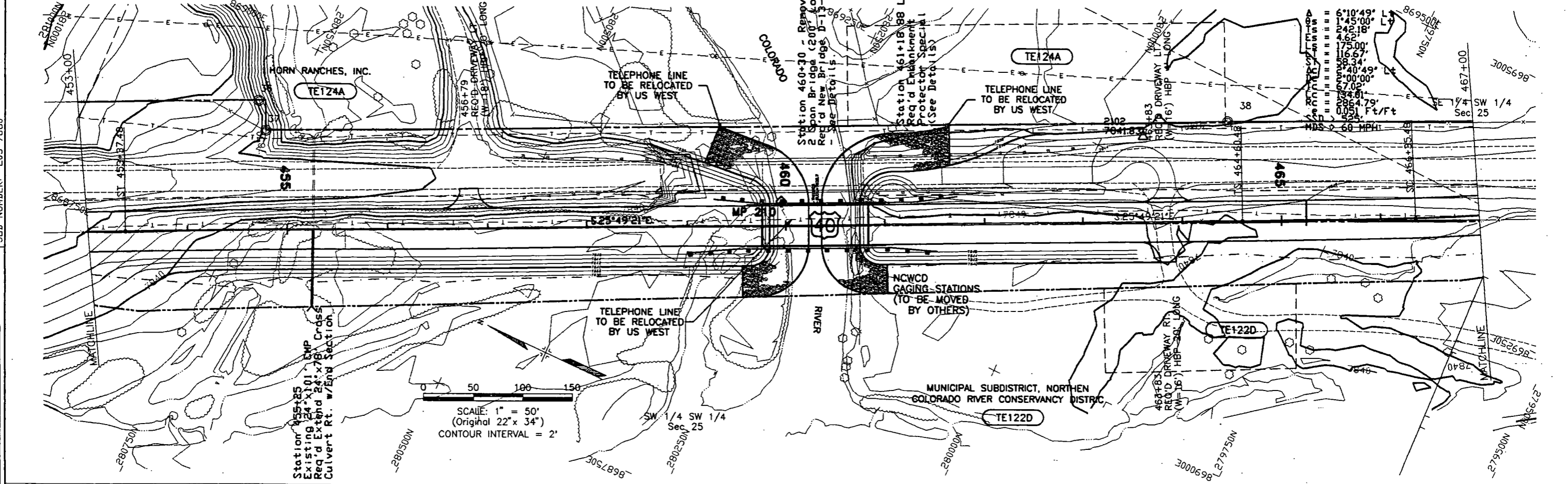
MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: WS CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
ALIGNMENT CHECKED	
BLD. OF WAY CHECKED	

T2N, R77W, 6th. PM

AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLD.	NH(CX) 040-2(34)	59



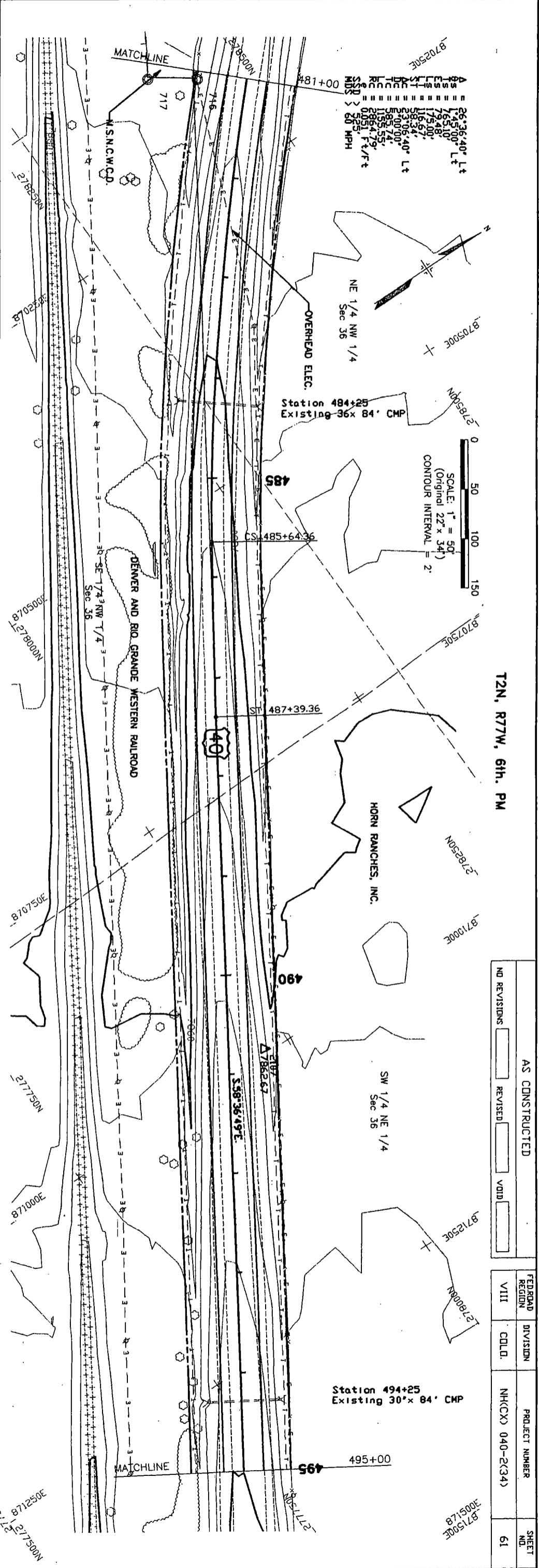
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PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY  
DESIGNED: WS CHECKED: MFE APPROVED: LFT  
JOB NUMBER: 203-7680

DE. COL. GRABO  
TR. OF HIGHWAYS  
FORM 1992  
JULY 1992

7845	481+00	MATCH LINE	STA. 481+00
7850	482+00		
7855	483+00		
7860	484+00	24' CULVERT L = 7853.10	
7865	485+00		
7870	486+00		
7875	487+00	EXISTING GROUND	
7880	488+00		
7885	489+00		
	490+00		
	491+00		
	492+00		
	493+00		
	494+00	24' CULVERT L = 7862.98	
	495+00	MATCH LINE	STA. 495+00
7845			
7850			
7855			
7860			
7865			
7870			
7875			
7880			
7885			



$\Delta s = 26^{\circ}36'40''$  Lt  
 $\Delta s = 145.00'$  Lt  
 $\Delta s = 79.48'$  Lt  
 $\Delta s = 175.00'$  Lt  
 $\Delta s = 16.57'$  Lt  
 $\Delta s = 53.06'$  Lt  
 $\Delta s = 90.00'$  Lt  
 $\Delta s = 158.55'$  Lt  
 $\Delta s = 202.79'$  Lt  
 $\Delta s = 10.95'$  Lt  
 $\Delta s = 52.51'$  Lt  
 $\Delta s > 50$  MPH

SCALE: 1" = 50'  
(Original 22" x 34")  
CONTOUR INTERVAL = 2'

T2N, R77W, 6th. PM

NO REVISIONS	AS CONSTRUCTED	FED. ROAD REGION	VIII	DIVISION	COLL.	PROJECT NUMBER	NHCCX 040-2(34)	SHEET NO.	61
	REVISED								
	VOID								

3005128  
871500E



MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: V.S. CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680

PLAN	DATE
SURVEYED	
NOTED	
ALIGNED	
CHECKED	
PL. OF. WAY CHECKED	

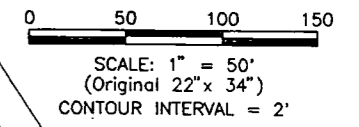
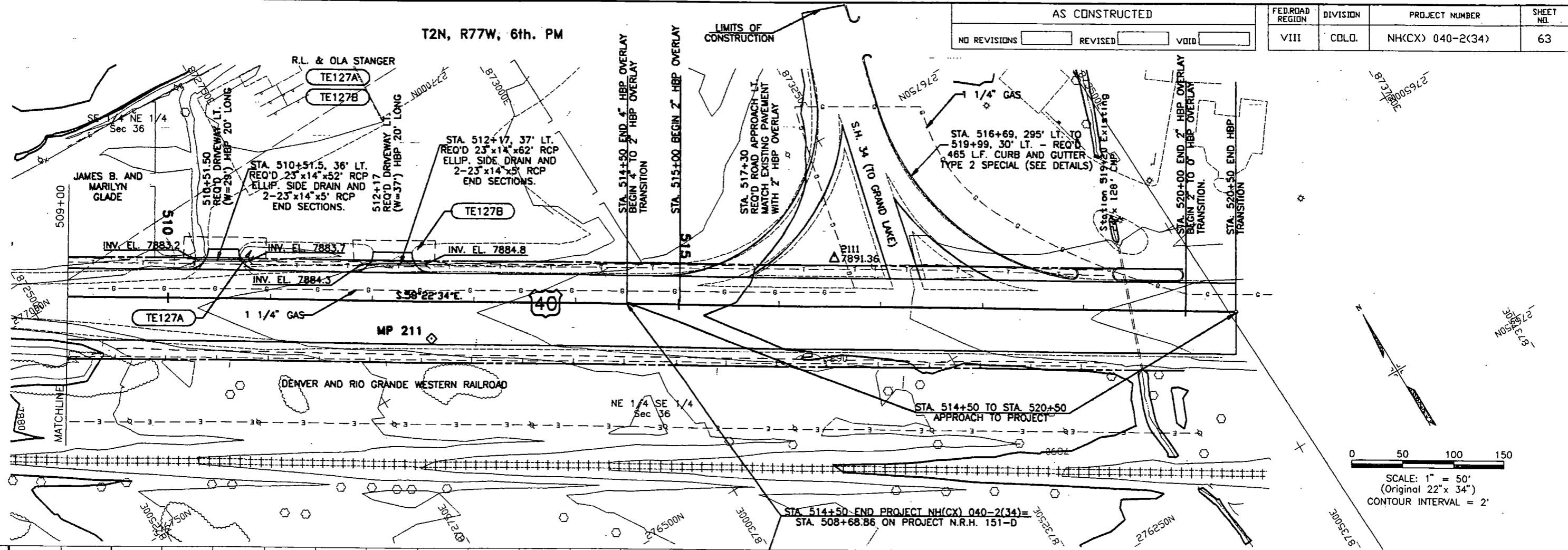
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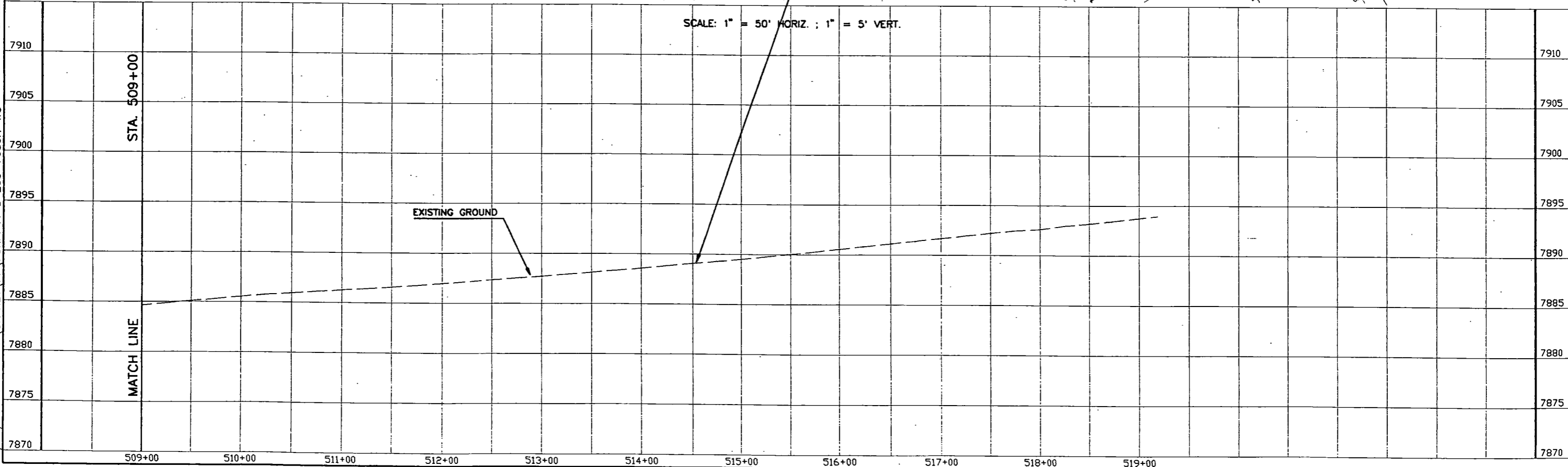
AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	63

T2N, R77W, 6th. PM



SCALE: 1" = 50' HORIZ. ; 1" = 5' VERT.



MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

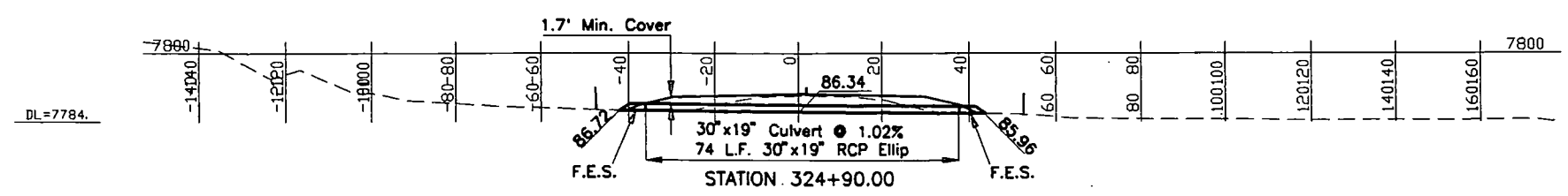
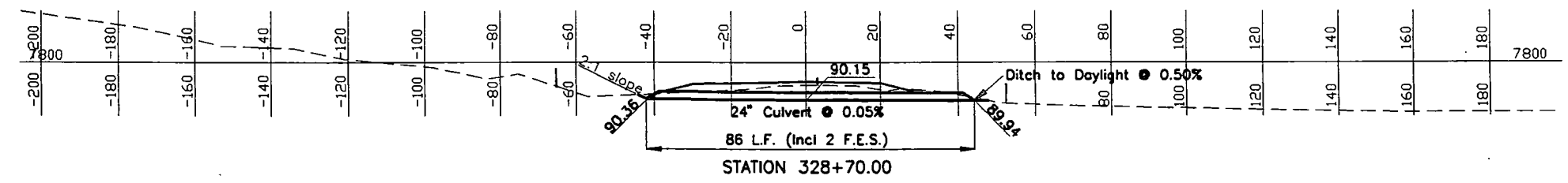
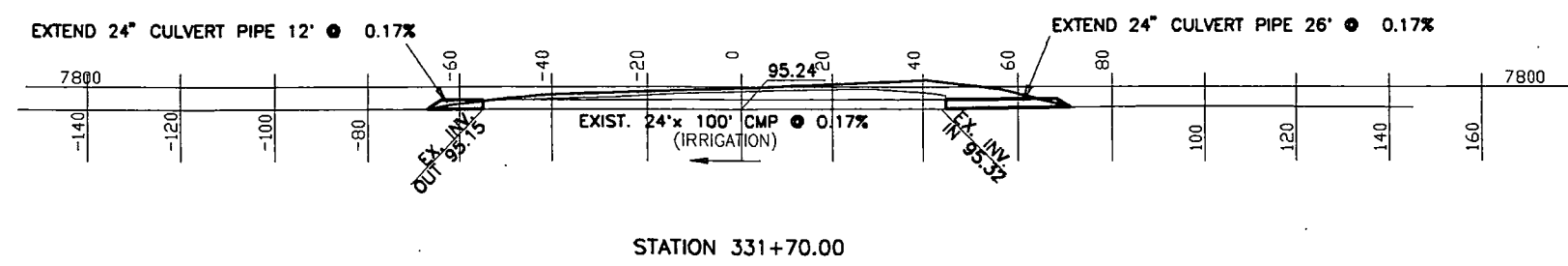
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AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	201

CROSS CULVERT PROFILES



MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNMENT CHECKED	
	PT. OF WAY CHECKED	

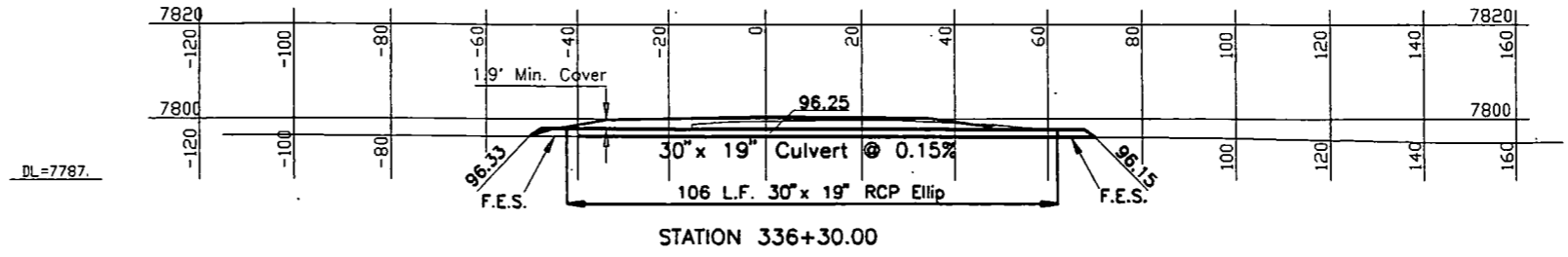
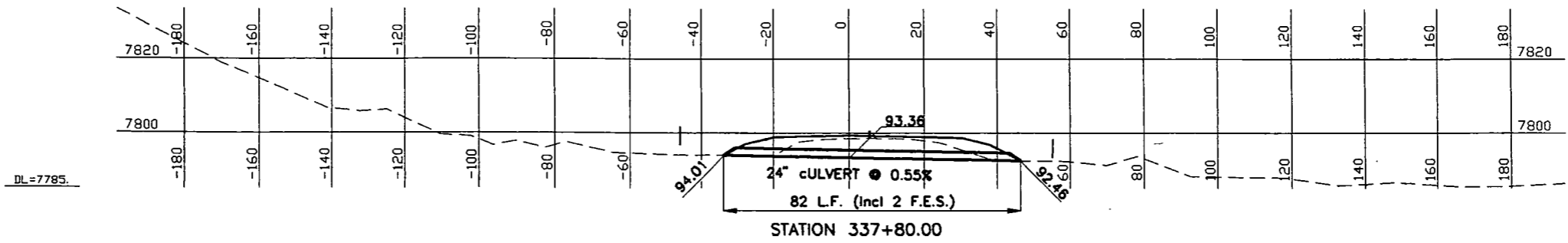
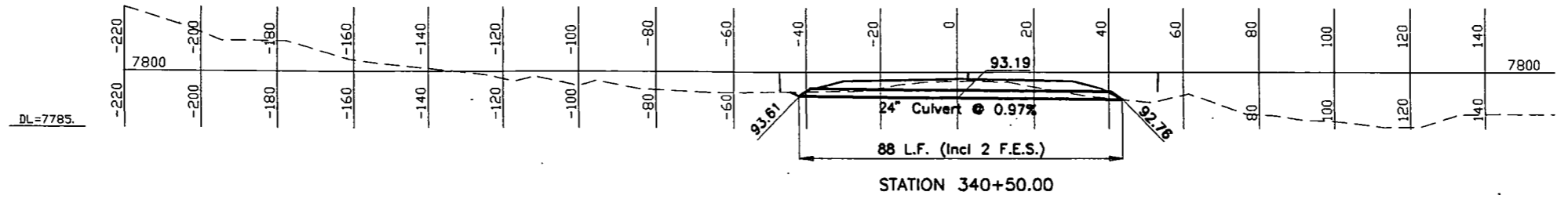
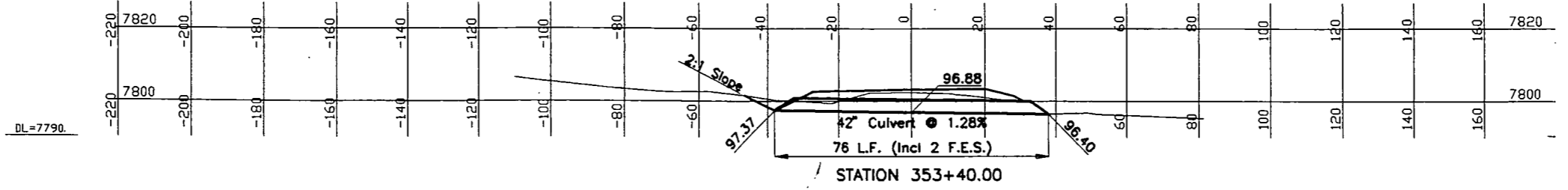
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AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLD.	NH(CX) 040-2(34)	202

CROSS CULVERT PROFILES



MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

PLAN	SURVEYED	BY
NOTE BOOK	PLOTTED	
ALIGNMENT	CHECKED	
DATE	BY	
	DATE	

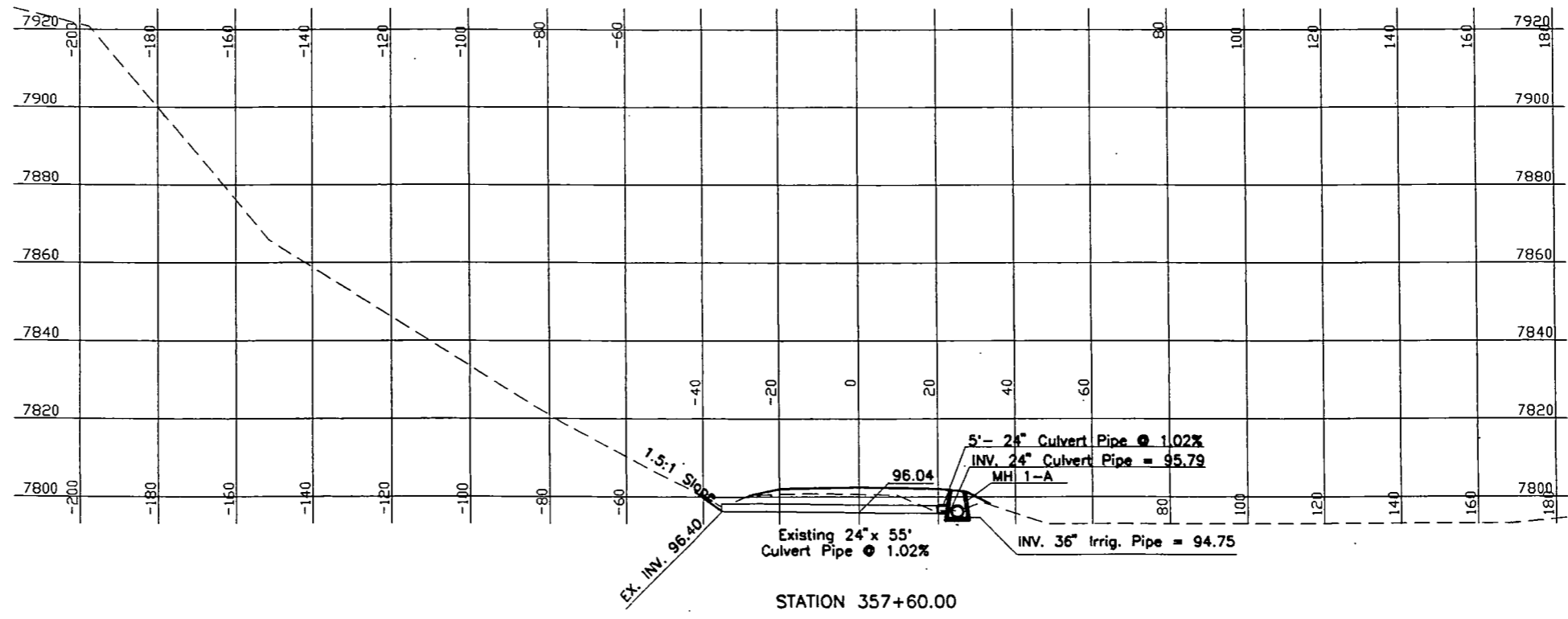
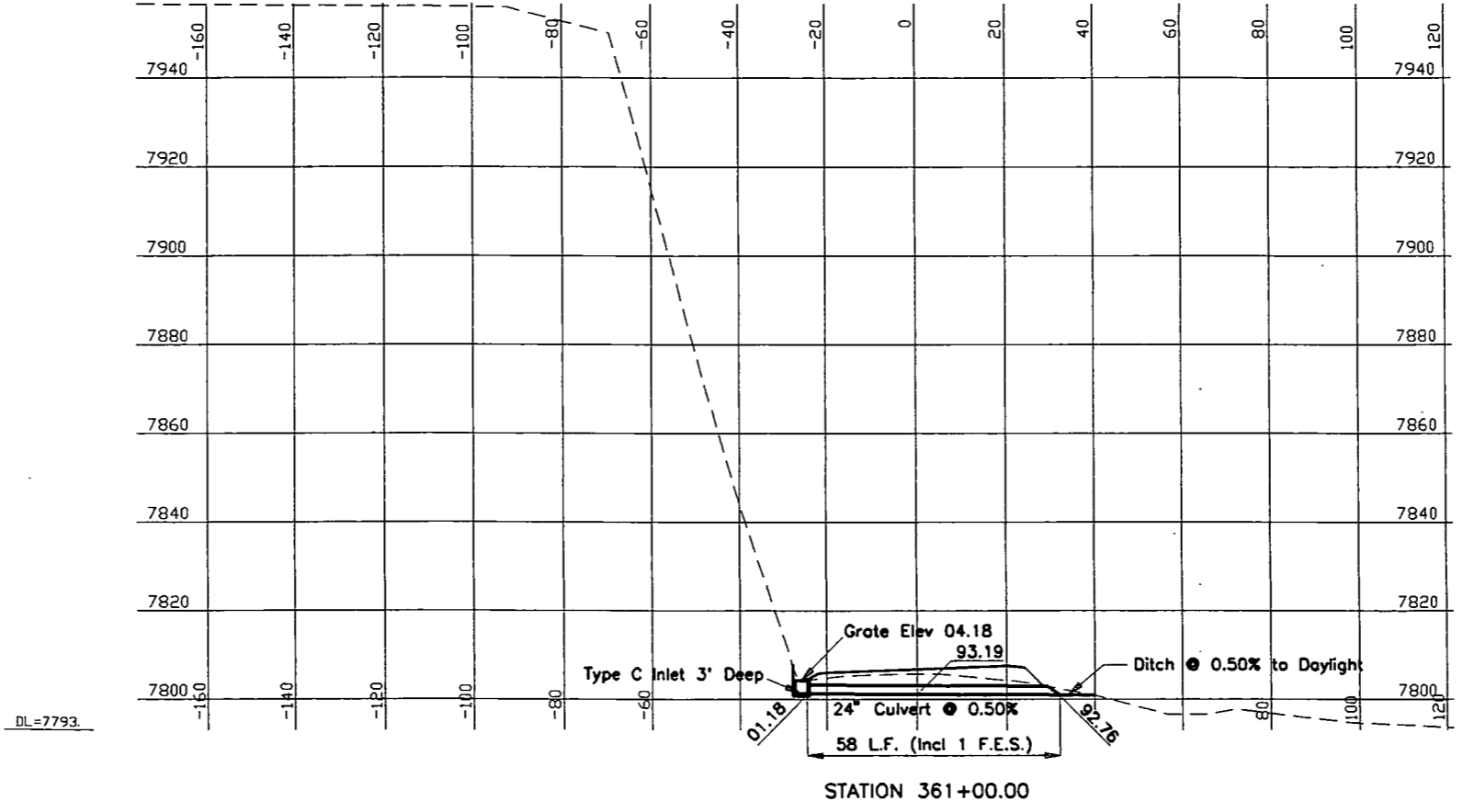
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AS CONSTRUCTED  
 NO REVISIONS [ ] REVISED [ ] VOID [ ]

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	203

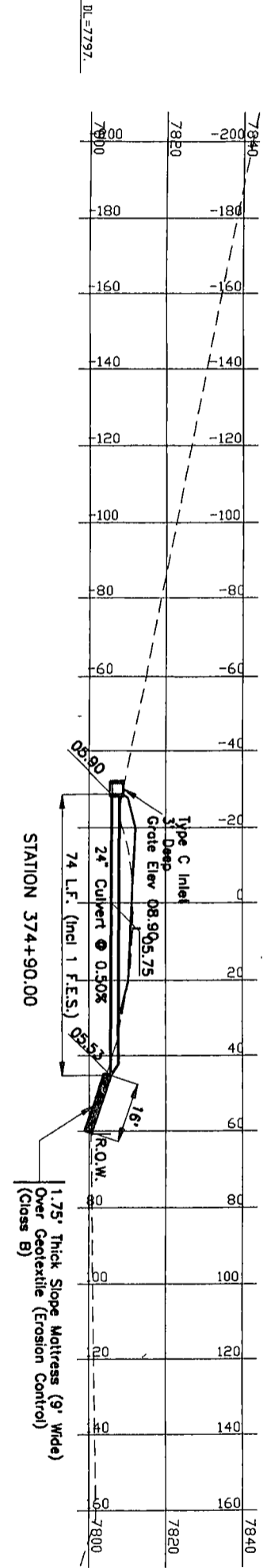
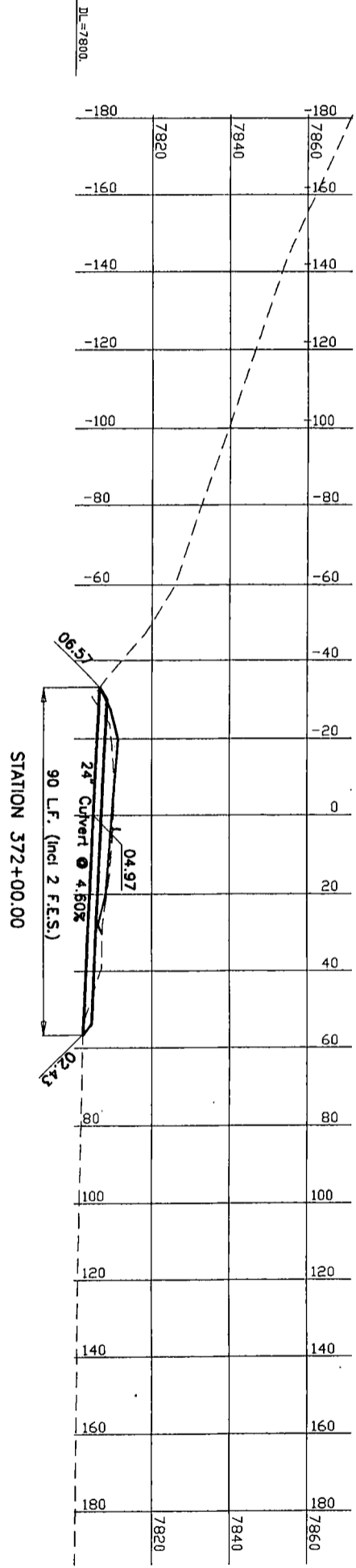
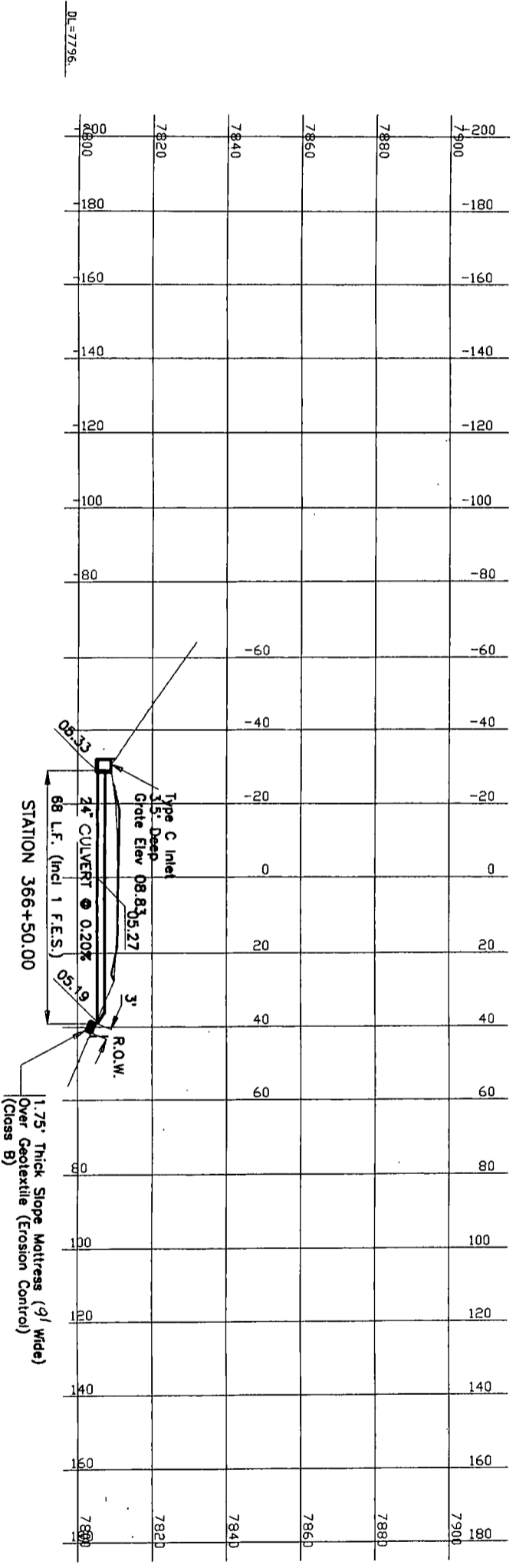
CROSS CULVERT PROFILES



PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY			
DESIGNED: JVH	CHECKED: MFE	APPROVED: LFT	
JOB NUMBER: 203-7680	DATE: 12-21-92		

OF COL DRABO  
TRIDENT OF TRANSPORTATION  
JULY 1992



CROSS CULVERT PROFILES

AS CONSTRUCTED	FEDERAL REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	VIII	COLL.	NH(CX) 040-(234)	204
REVISED				
VOID				

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

PLAN	DATE
DESIGNED	
CHECKED	
APPROVED	
NOTE BOOK	
ALIGNED CHECKED	
BY	
DATE	

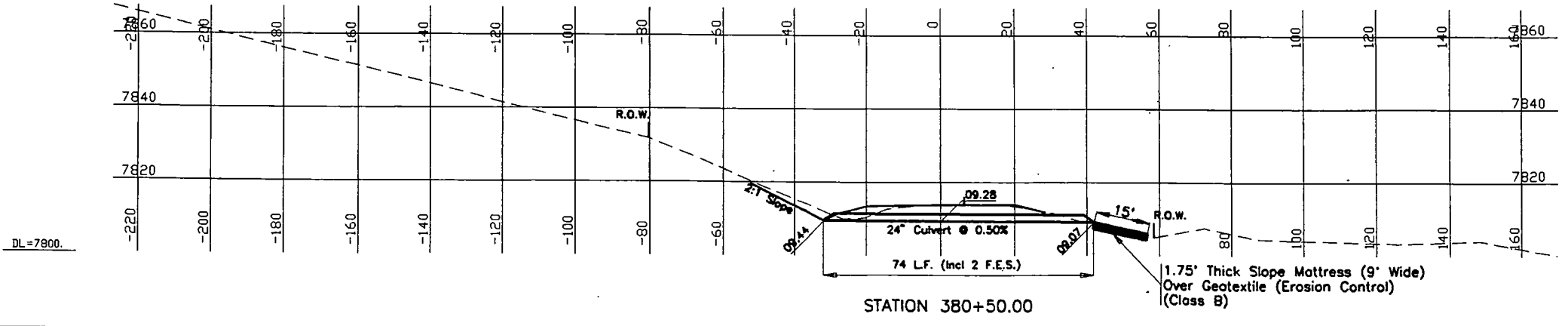
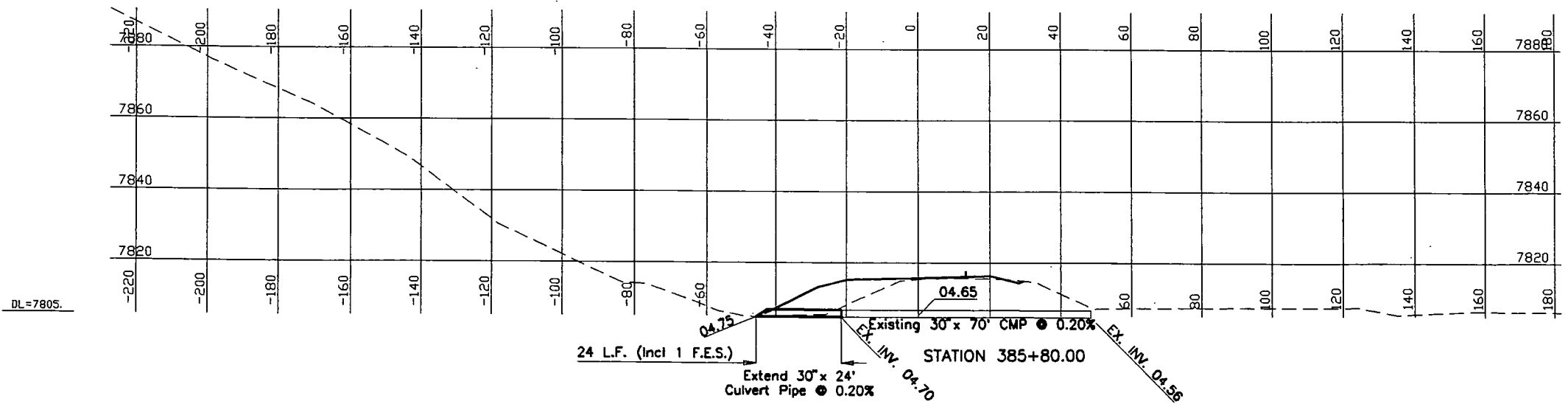
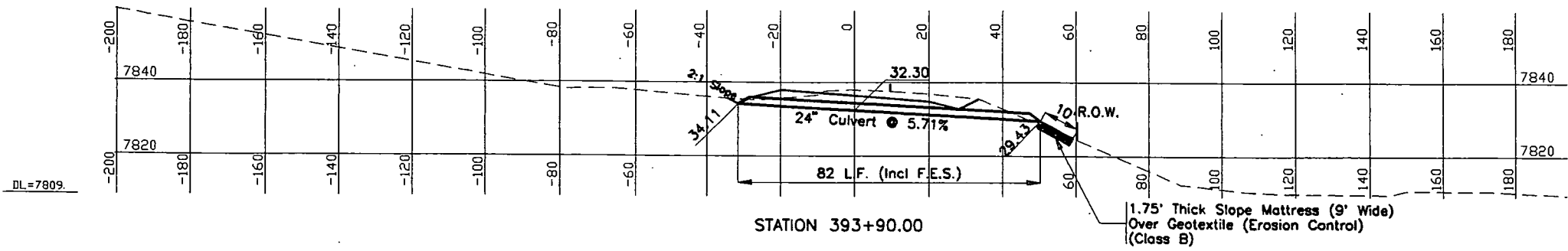
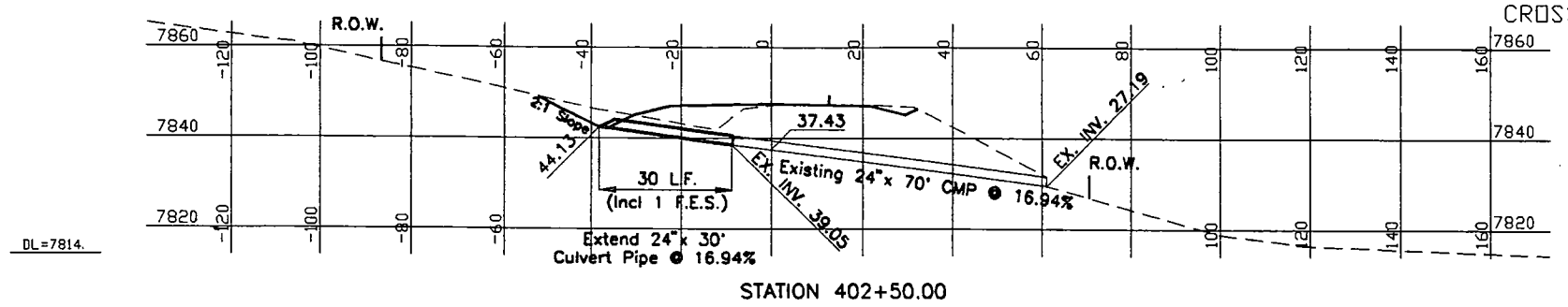
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AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	205

CROSS CULVERT PROFILES



MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	

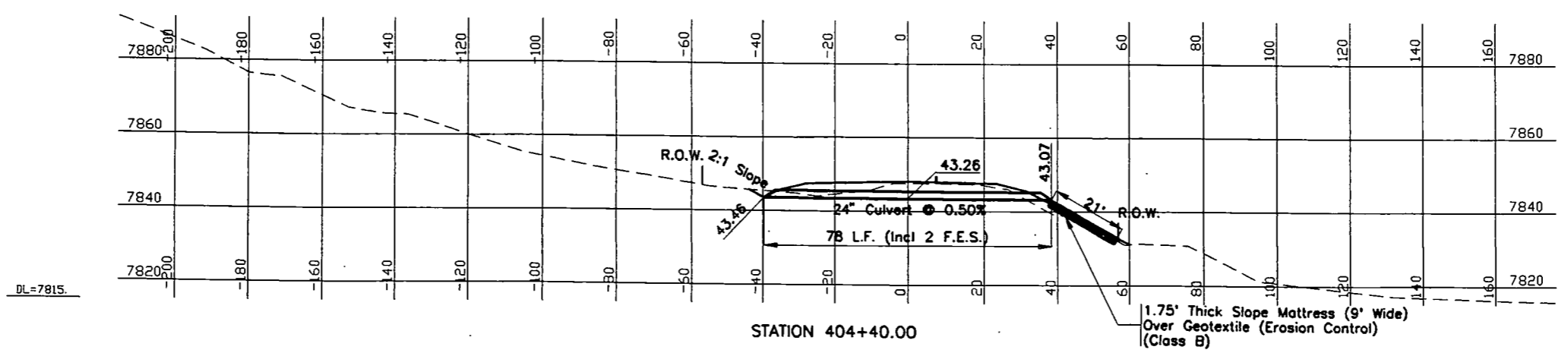
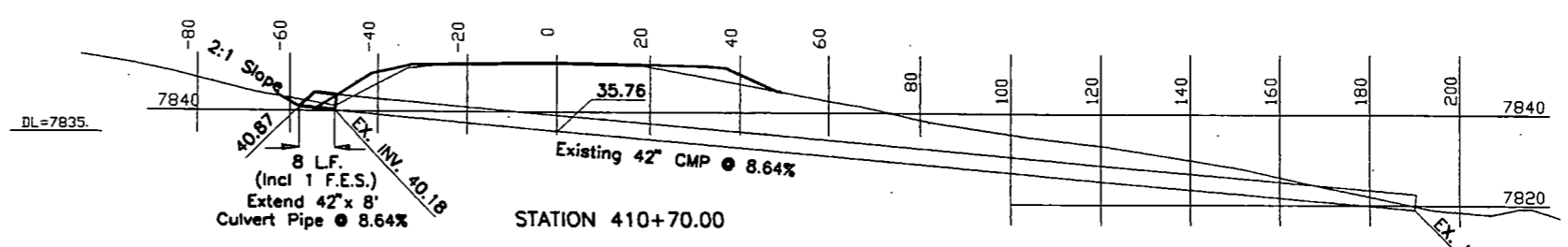
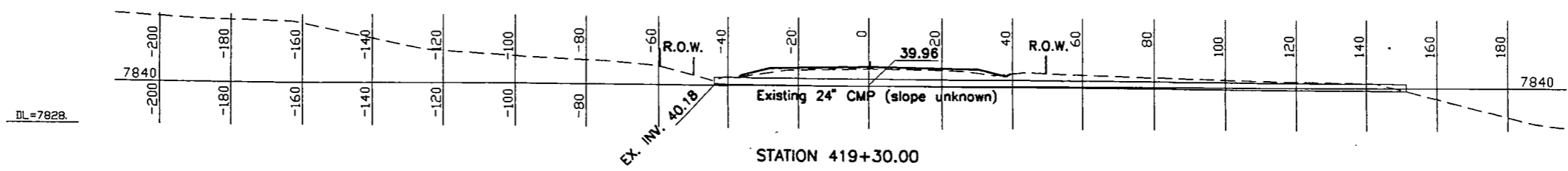
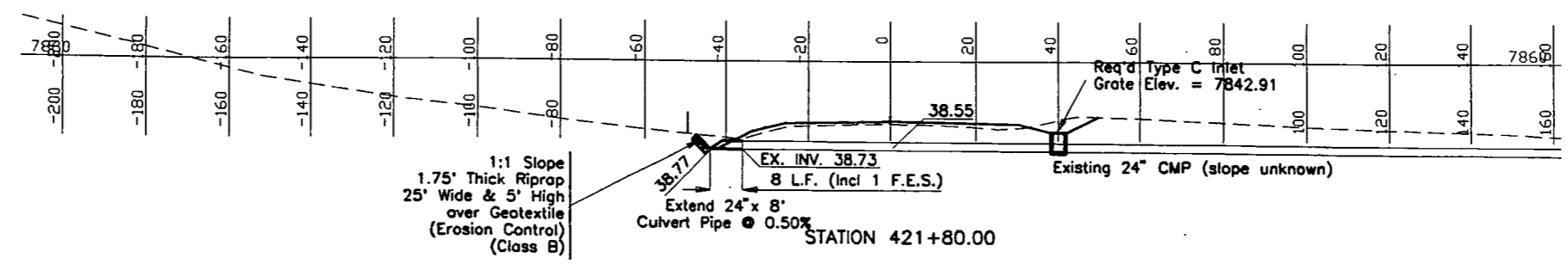
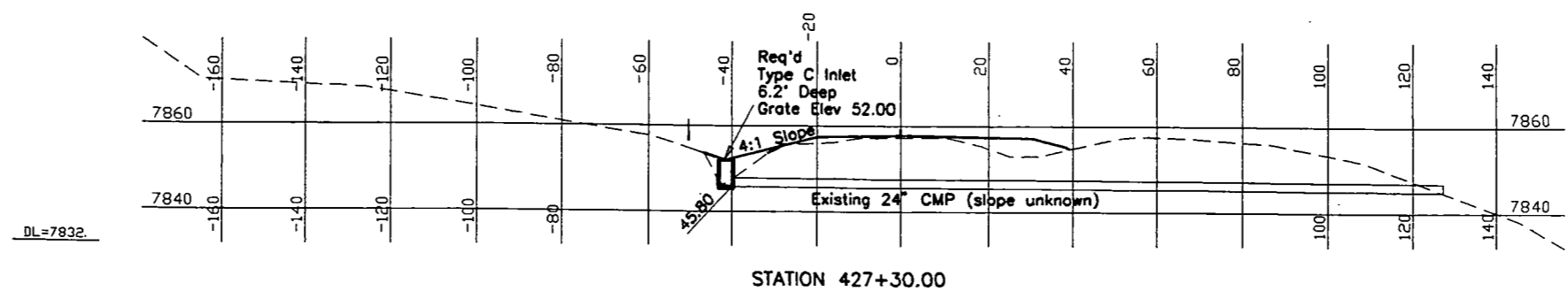
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AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
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CROSS CULVERT PROFILES

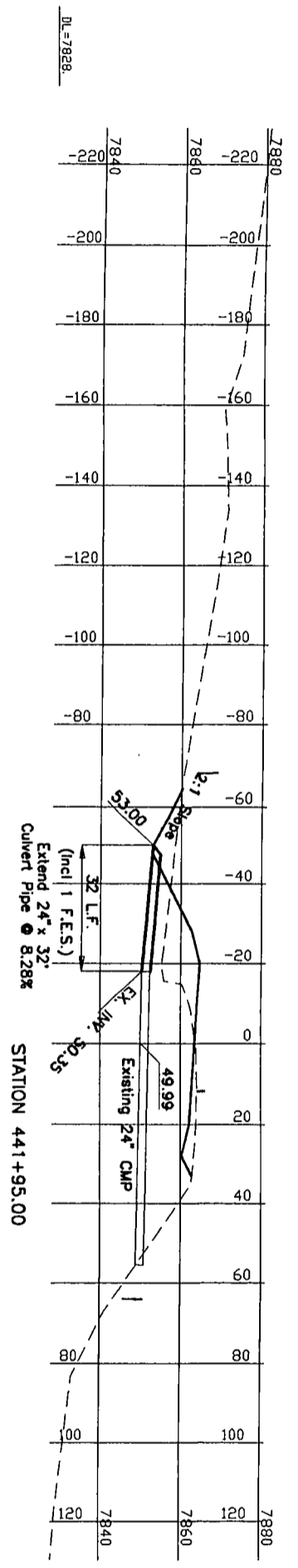
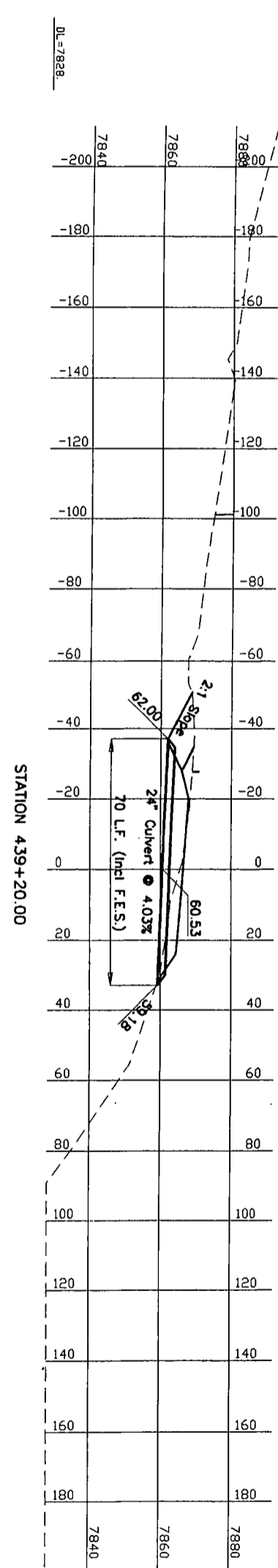
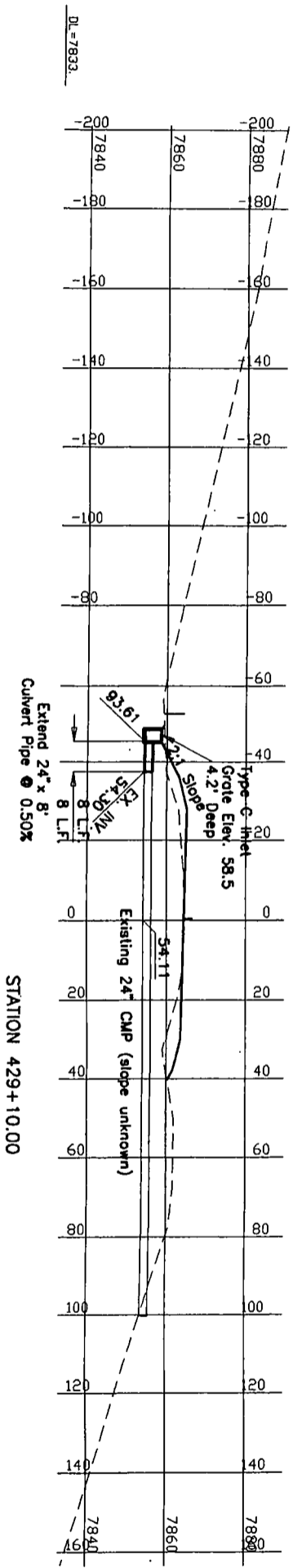


PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY  
DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
JOB NUMBER: 203-7680

12/21/92 11:31:05 C:\GRANBY\CULVERTS\CUL207B S 203-7680R1 JVH

THE NEW HAMPSHIRE  
DEPARTMENT OF  
TRANSPORTATION  
DIVISION OF  
HIGHWAYS  
DRAFT  
JULY 1992



CROSS CULVERT PROFILES

NO REVISIONS	AS CONSTRUCTED	FEDERAL REGION	DIVISION	PROJECT NUMBER	SHEET NO.
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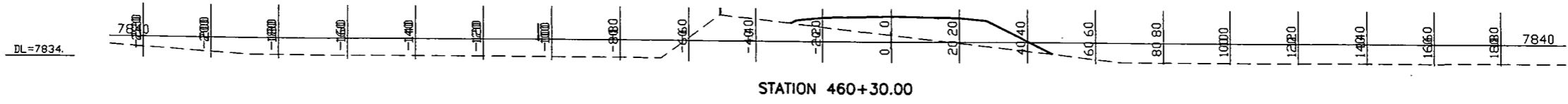
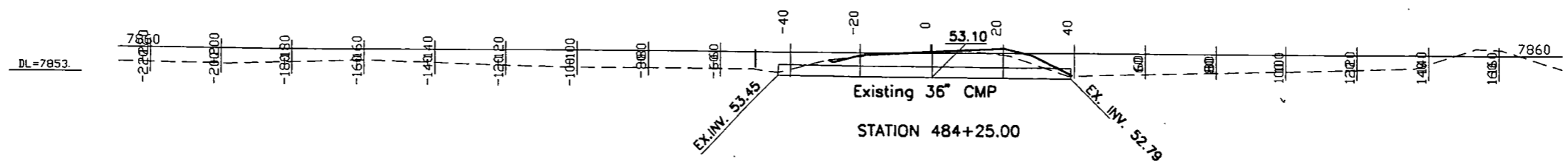
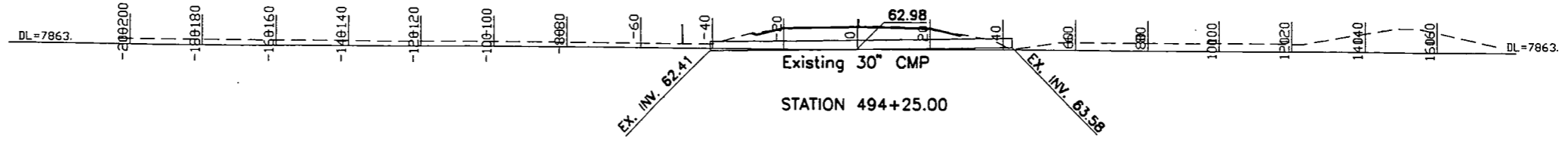
AS CONSTRUCTED		
NO REVISIONS	REVISED	VOID

FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	208

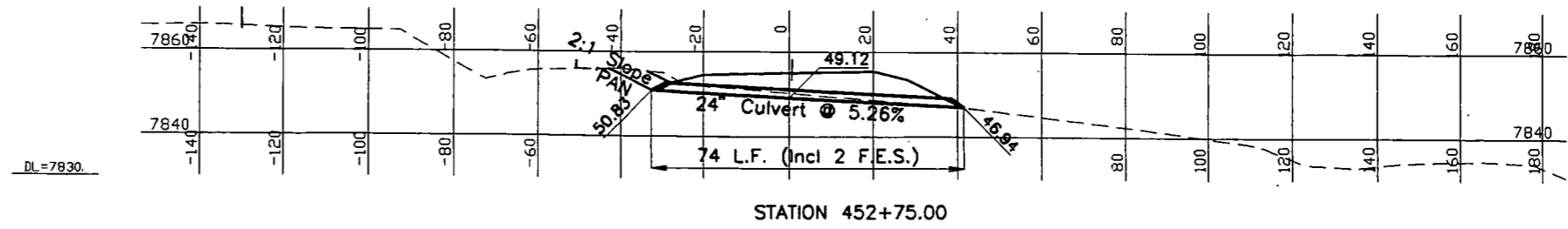
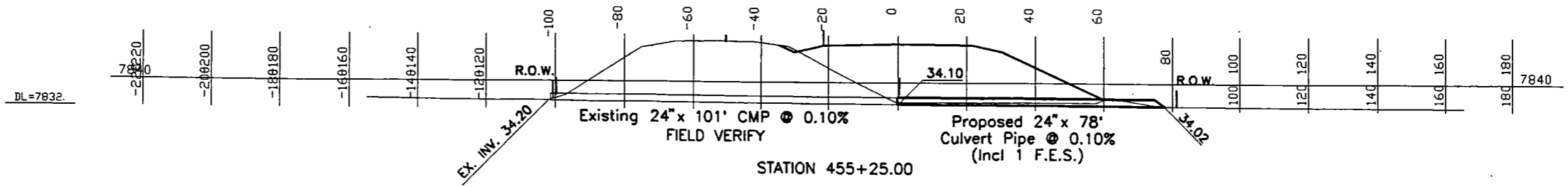
CROSS CULVERT PROFILES

MERRICK PROJECT: WEST OF GRANBY  
 DESIGNED: JVH CHECKED: MFE APPROVED: LFT  
 JOB NUMBER: 203-7680 DATE: 12-21-92

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	



COLORADO RIVER BRIDGE (See Bridge Plans)

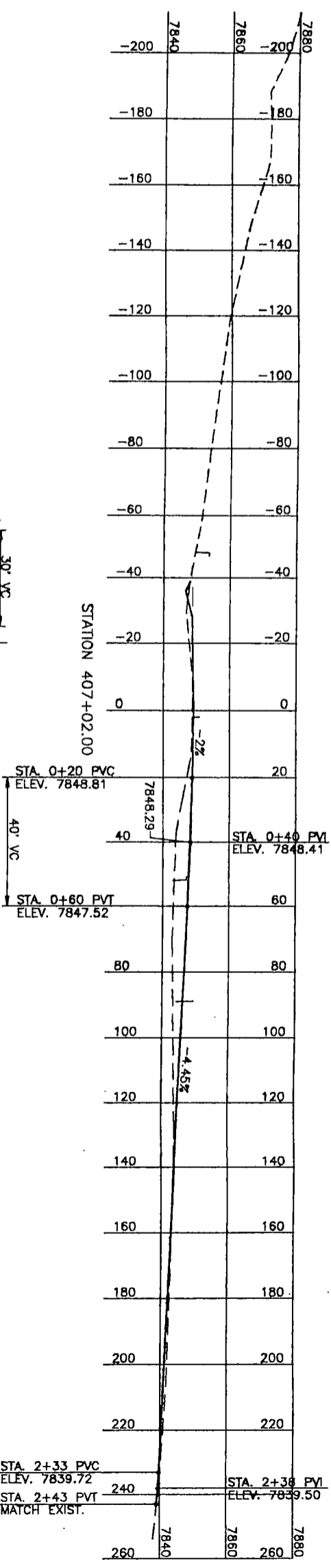
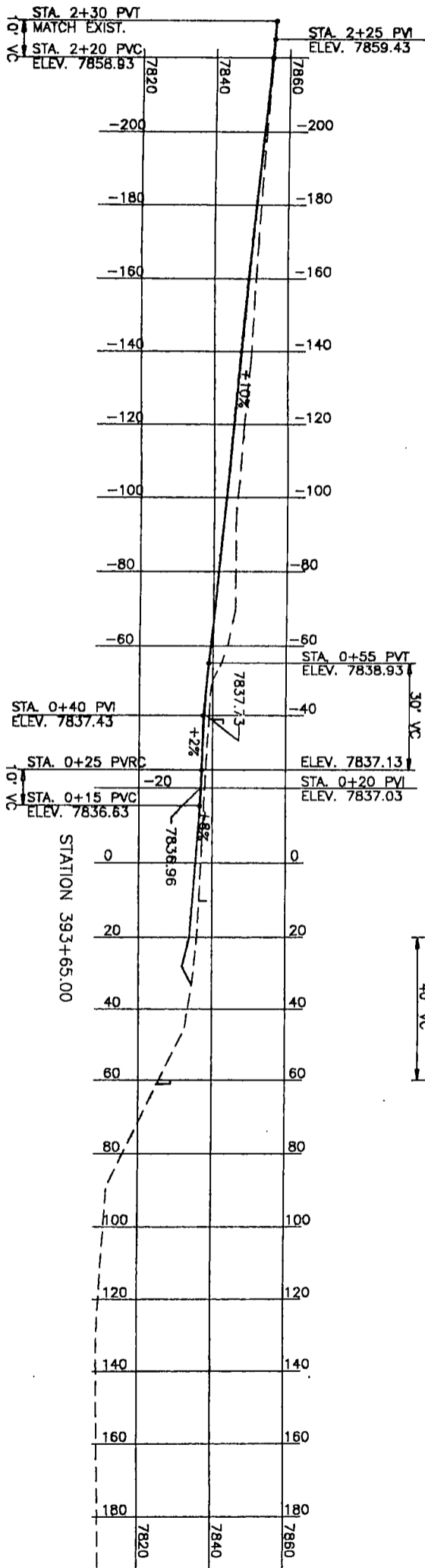
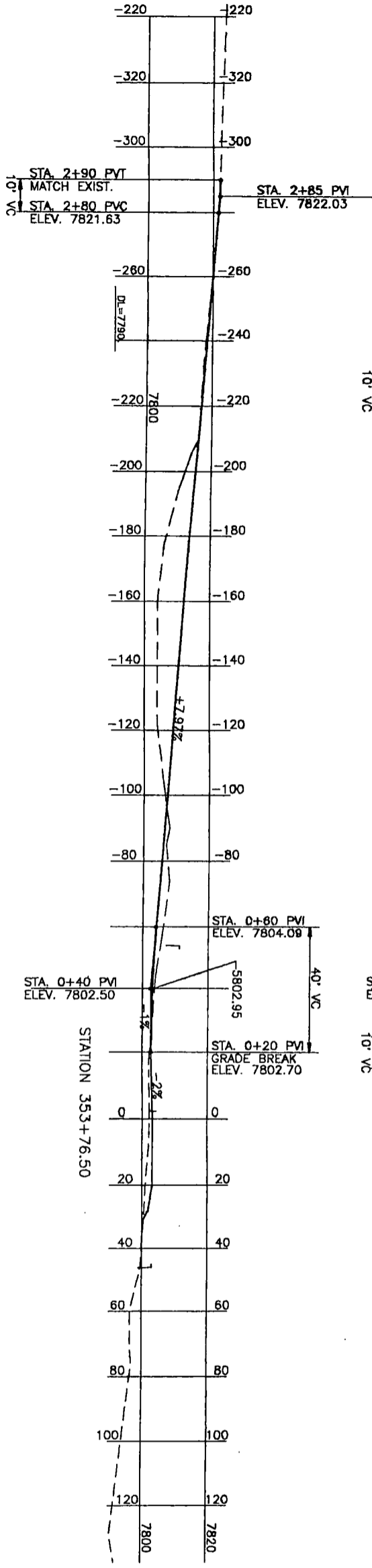


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PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY			
DESIGNED: JVH	CHECKED: MFE	APPROVED: LFT	
JOB NUMBER: 203-7680		DATE: 07-31-92	

OF COLORADO  
 DEPARTMENT OF TRANSPORTATION  
 JULY 1992



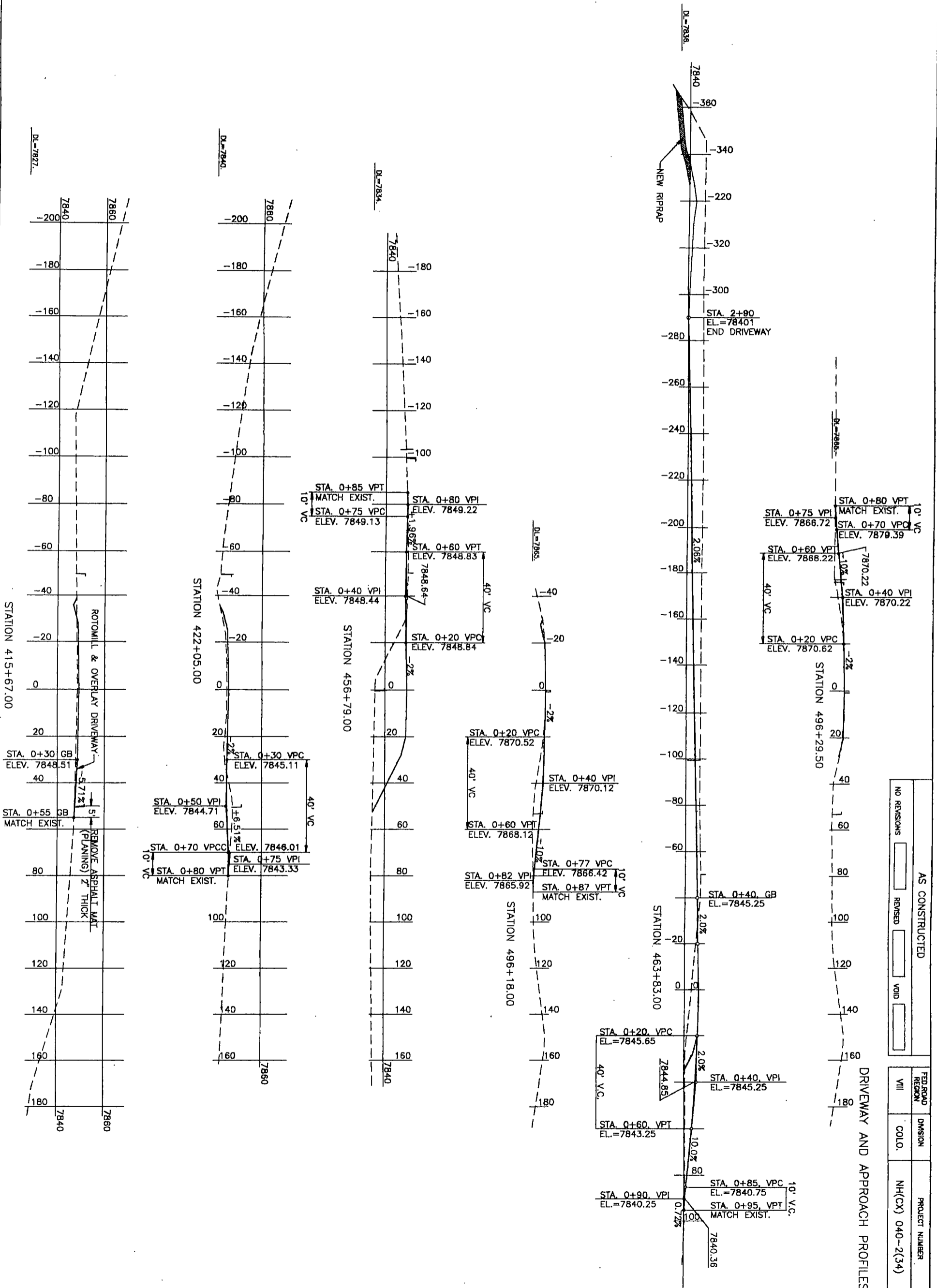
DRIVEWAY AND APPROACH PROFILES

AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VIII	COLO.	NH(CX) 040-2(34)	302
VOID					

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY			
DESIGNED: JVH	CHECKED: MFE	APPROVED: LFT	
JOB NUMBER: 203-7680	DATE: 07-31-92		

OF COURSE  
MERRICK TRANSPORTATION  
FORM NO. 134  
JULY 1982



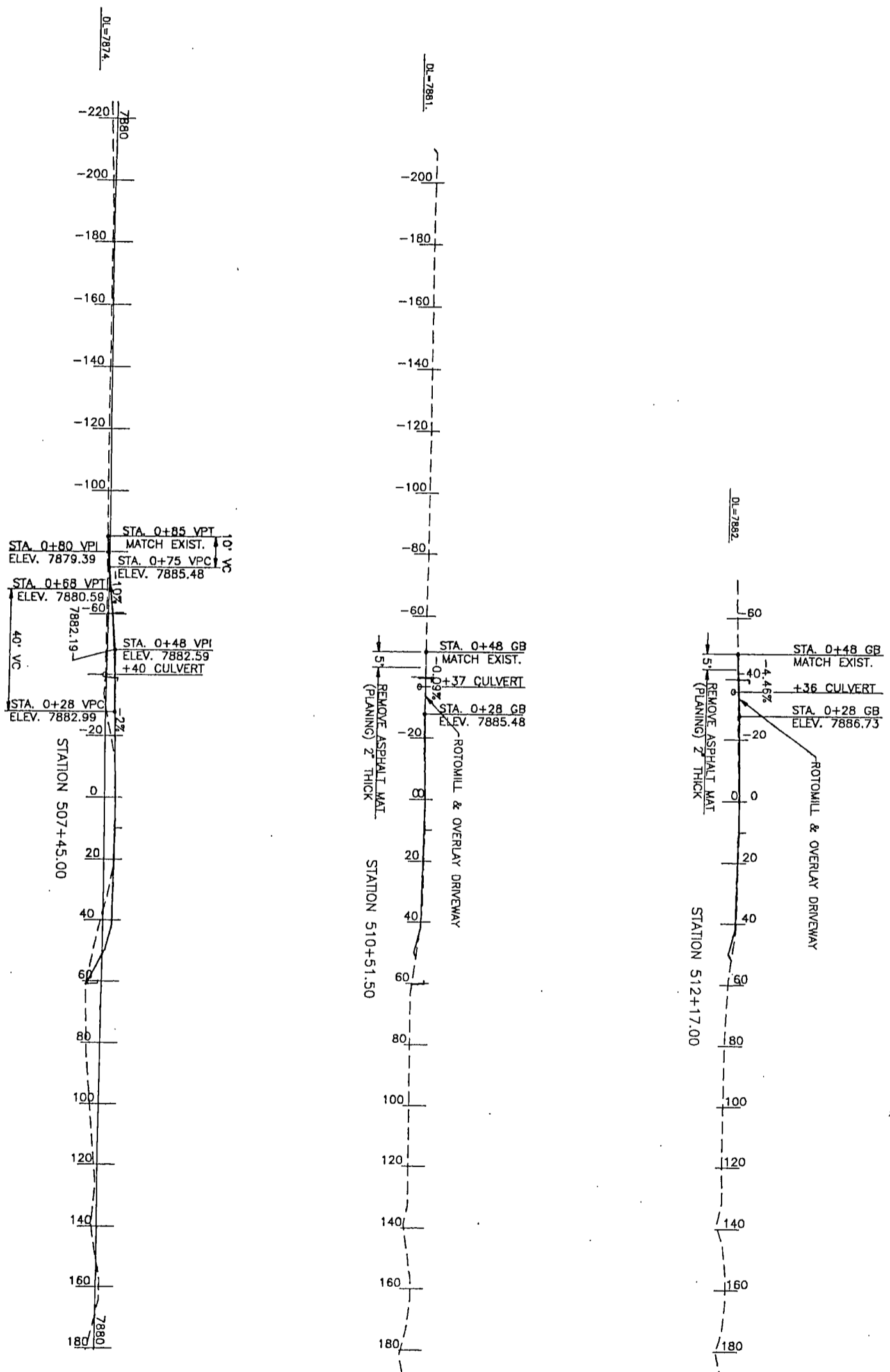
AS CONSTRUCTED		FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
NO REVISIONS	REVISED	VIII	COLO.	NH(CX) 040-2(34)	303
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DRIVEWAY AND APPROACH PROFILES

PLAN	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

MERRICK PROJECT: WEST OF GRANBY			
DESIGNED: JVH	CHECKED: MFE	APPROVED: LFT	
JOB NUMBER: 203-7680	DATE: 07-31-92		

STATE OF NEW HAMPSHIRE  
DEPARTMENT OF TRANSPORTATION  
STANDARD PLAN NO. 234  
JULY 1992



AS CONSTRUCTED			
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FED. ROAD REGION	DIVISION	PROJECT NUMBER	SHEET NO.
VIII	COLO.	NH(CX) 040-2(34)	304

DRIVEWAY AND APPROACH PROFILES