

INDEX OF SHEETS

SHEET NO. 1 TITLE  
 SHEET NO. 2 TYPICAL CROSS SECTIONS  
 SHEET NO. 2 ESTIMATE OF QUANTITIES  
 SHEET NO. 2A-2B MISCELLANEOUS QUANTITIES  
 SHEET NO. 3-7 RIGHT OF WAY PLAT  
 SHEET NO. 3-7 PLAN AND PROFILE STA. 0+14 TO STA. 140+50  
 SHEET NO. 8-14 STANDARD DETAILS  
 SHEET NO. 15-16 DRAINAGE STRUCTURES  
 SHEET NO. 17-41 CROSS SECTIONS

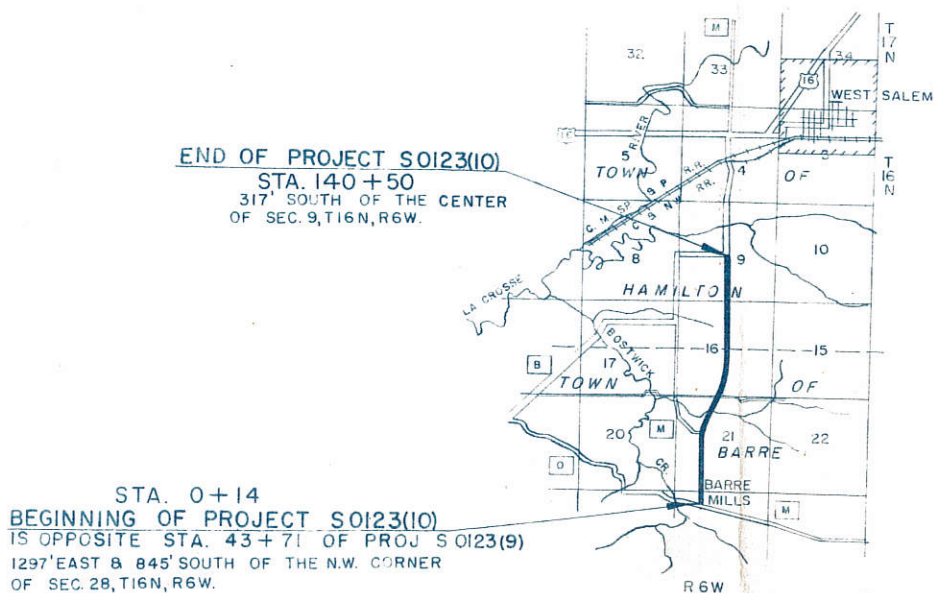


STATE OF WISCONSIN  
 STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
 C.T.H. "O" - U.S.H. 16 ROAD  
 C.T.H. "M"  
 LA CROSSE COUNTY  
 PROJECT S0123(10)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		FEDERAL DIVISION OFFICE	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
32.6	123.0		11.10	WIS. 4	1	41

SCALES PLAN 1 IN. = 100 FT.  
 PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.  
 CROSS SECTIONS HOR. 1 IN. = 10 FT. VERT. 1 IN. = 10 FT.



END OF PROJECT S0123(10)  
 STA. 140+50  
 317' SOUTH OF THE CENTER  
 OF SEC. 9, T16N, R6W.

STA. 0+14  
 BEGINNING OF PROJECT S0123(10)  
 IS OPPOSITE STA. 43+71 OF PROJ S0123(9)  
 1297' EAST & 845' SOUTH OF THE N.W. CORNER  
 OF SEC. 28, T16N, R6W.

LAYOUT

SCALE 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 2.658 MI.

CONVENTIONAL SIGNS

STATE LINE	-----	CULVERTS IN PLACE	-----
COUNTY LINE	-----	CULVERTS REQUIRED	-----
TOWNSHIP OR RANGE LINE	-----	DROP INLET	-----
SECTION LINE	-----	POWER POLE	-----
NEW RIGHT OF WAY LINE	-----	TELEPHONE OR TELEGRAPH POLE	-----
PRESENT RIGHT OF WAY LINE	-----	RIGHT OF WAY MARKERS	-----
WIRE FENCE { WOVEN	-----	REFERENCE STAKE FOR HUBS ONLY	-----
{ BARBED	-----	MARSH	-----
LOT LINE	-----	HEDGE	-----
CORPORATE OR CITY LIMITS	-----	TREES	-----
PROPERTY LINE	-----		
TRAVELED WAY OR P.E.	-----		
RAILROADS	-----		
BASE OR SURVEY LINE	-----		

Barre 1.72 mi  
 Hamilton .94 mi  
 2.66 "

APPROVED FOR LA CROSSE COUNTY BY:  
 DATE 7-27-58 COMMISSIONER

STATE HIGHWAY COMMISSION OF WISCONSIN  
 MADISON, WIS.

SURVEYOR R.W.S. NOTE BOOK L.L.  
 DIVISION COMPUTER A.E.J. M.O. CHECKER  
 DISTRICT CHECKER R.C.V. CORRECT

CORRECT:  
 DATE 7-25-58 V.D. Fickler DISTRICT ENGINEER

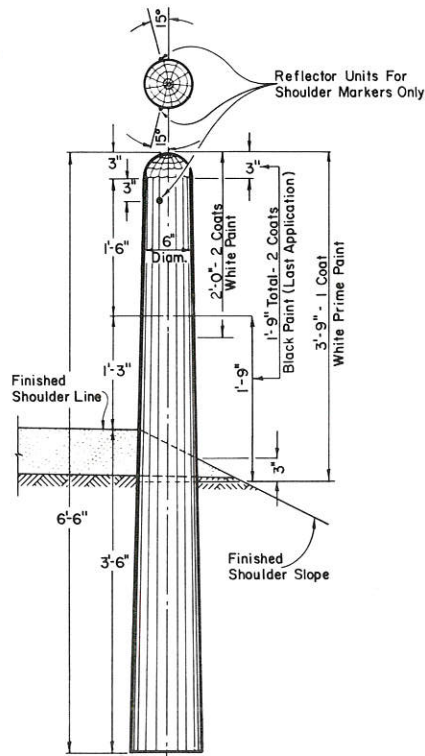
RECOMMENDED FOR APPROVAL:  
 DATE 7-28-58 J.D. Pelt ENGINEER OF DESIGN

APPROVED:  
 DATE 7/28/58 E.C. Rottman STATE HIGHWAY ENGINEER

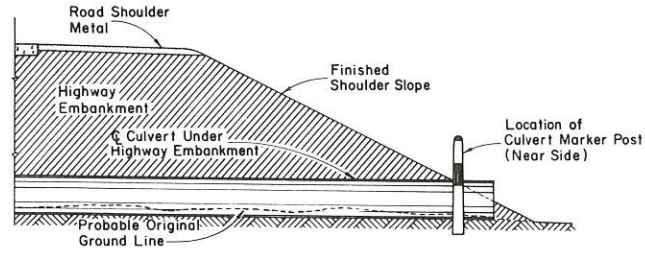
DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_  
 DISTRICT ENGINEER

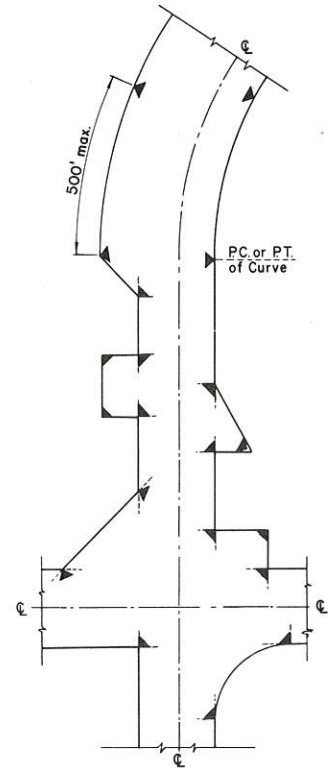




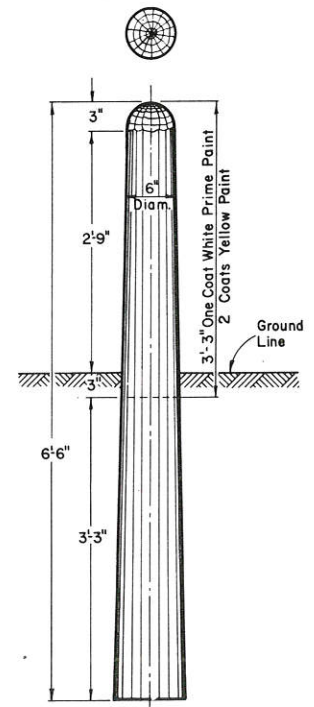
**MARKER POST FOR ROAD SHOULDERS AND CULVERTS**



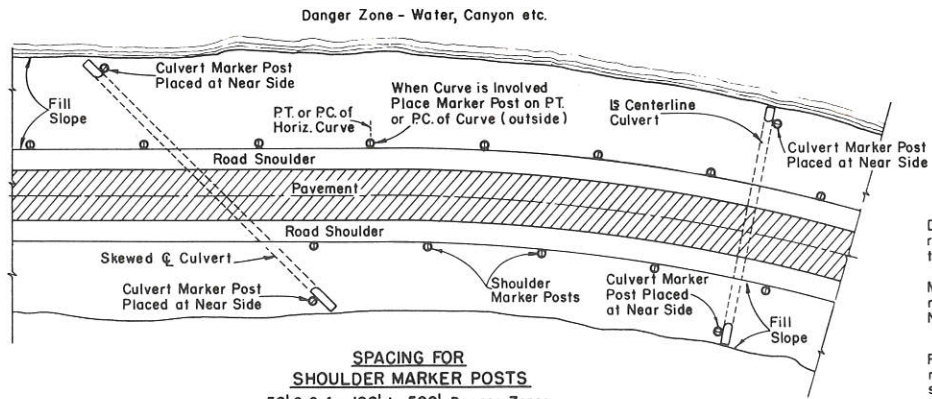
**SECTION SHOWING RELATIVE LOCATION OF MARKER POST FOR CULVERTS**



**LOCATION DIAGRAM SHOWING TYPICAL LOCATIONS OF MARKER POSTS FOR RIGHT OF WAY**



**MARKER POST FOR RIGHT OF WAY**



**SPACING FOR SHOULDER MARKER POSTS**  
 50' C:C for 100' to 500' Danger Zones  
 100' C:C for Over 500' Danger Zones  
**LOCATION DIAGRAM SHOWING RELATIVE LOCATIONS OF SHOULDER MARKER POSTS AND CULVERT MARKER POSTS**

**MARKER POSTS FOR ROAD SHOULDERS AND CULVERTS**

**MARKER POST FOR RIGHT OF WAY**

**GENERAL NOTES:**

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications Sections 2523, 4124 and 4125 and the applicable Special Provisions.

All posts for Road Shoulder Markers, Culvert Markers and Right of Way Markers are identical except for Painting and Reflector Units. All Posts shall be round and untreated and shall be either Northern White Cedar, Southern Yellow Pine, Norway Pine, White Pine or Jack Pine.

**MARKER POSTS FOR RIGHT OF WAY**

Right of Way Marker Posts shall be erected in advance of Grading Operations. Posts may be shaped and painted prior to erection. Any damaged areas occurring to paint surface during erection or other subsequent operations must be repainted prior to acceptance.

Posts shall be placed at the outer limits of the Highway Right of Way, but entirely within the Right of Way, and shall be so placed that the outer edge of the posts shall be tangent to the Right of Way line or lines extended. The exact location of all Right of Way Posts shall be staked in the field by the Engineer.

**REFLECTOR UNITS**

Reflector Units shall have plastic crystal lens 7/8" in diameter. Unit assembly shall be a minimum of 7/8" in length. Reflector Units shall be furnished with flared expanding metal clips for wood mounting. Units shall be mounted in tightest fit possible and securely stayed in posts. Reflector Units shall be installed in Road Shoulder Marker Posts only.

**BID ITEMS**

- No. 2523-5 Marker Posts ----- Each
- No. 2523-6 Marker Posts for Right of Way ----- Each

**MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL

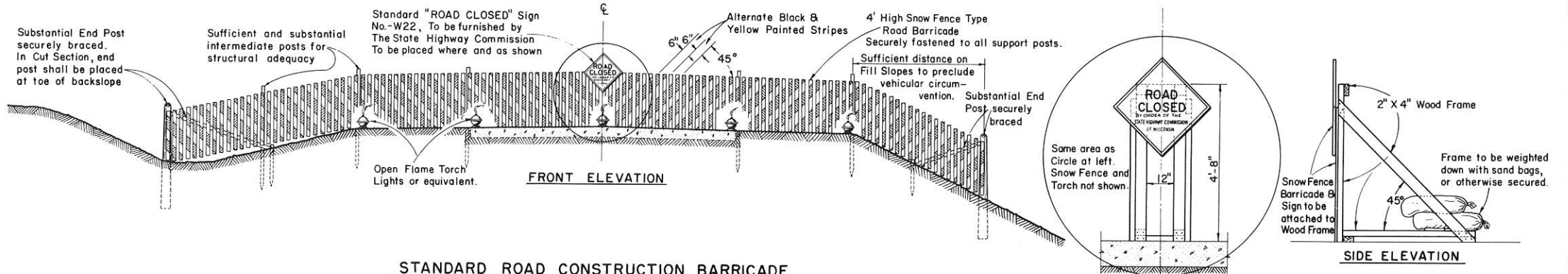
5/16/57  
DATE

*J. Pelt*  
ENGINEER OF DESIGN

APPROVED:

5/16/57  
DATE

*E. L. Rottiers*  
STATE HIGHWAY ENGINEER



**STANDARD ROAD CONSTRUCTION BARRICADE**

**SNOW FENCE TYPE-"A"**

**WOOD FRAME SUPPORT AT C FOR SNOWFENCE TYPE BARRICADE When Barricade is Erected on Rigid Type Surfacing**

**GENERAL NOTES**

The Contractor shall construct, place and maintain barricades as shown on this drawing and as required by the Standard Specifications Section 1107 for the duration of the project. Barricades shall be painted and structurally maintained for maximum visibility at all times. Provision shall be made in the construction of barricades to provide for ingress and egress for local access as may be required.

**ALTERNATE DESIGNS**

Contractors may submit to the Engineer for approval, designs for Barricades other than shown on this drawing, and upon the Engineer's approval may be used as alternates.

**MEASUREMENT & PAYMENT**

All Barricades, unless otherwise provided for in the Plans and/or Special Provisions shall be furnished, placed, and maintained as noted above, and no additional compensation will be allowed but shall be construed to be included in the price bid for other items.

<b>CONSTRUCTION BARRICADE</b>	
<i>STATE HIGHWAY COMMISSION OF WISCONSIN</i>	
RECOMMENDED FOR APPROVAL:	
DATE <i>6/2/55</i>	ENGINEER OF DESIGN <i>J. S. Pelt</i>
APPROVED:	
DATE <i>6/2/55</i>	STATE HIGHWAY ENGINEER <i>E. C. Ruttiger</i>



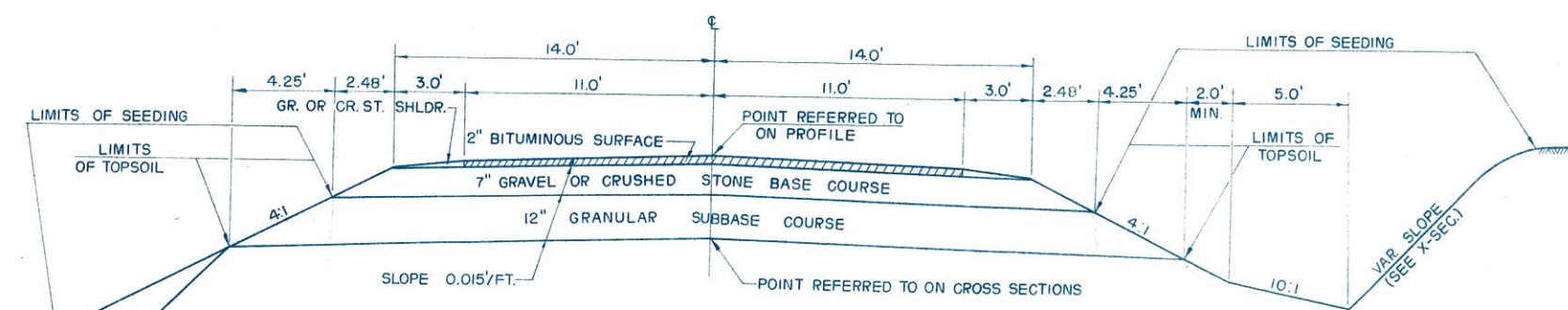
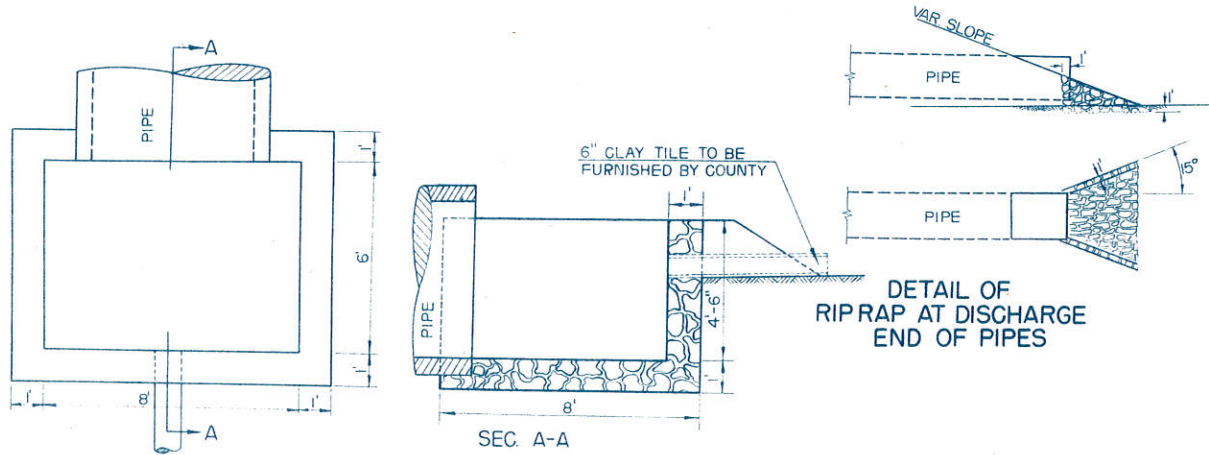
# ESTIMATE OF QUANTITIES

CONTRACT NO. 182

THIS PROJECT IS TO BE EXECUTED UNDER THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF WISCONSIN — EDITION OF 1957, APPROVED AUGUST 9, 1957, AND SPECIAL PROVISIONS AS ATTACHED TO PROPOSALS.

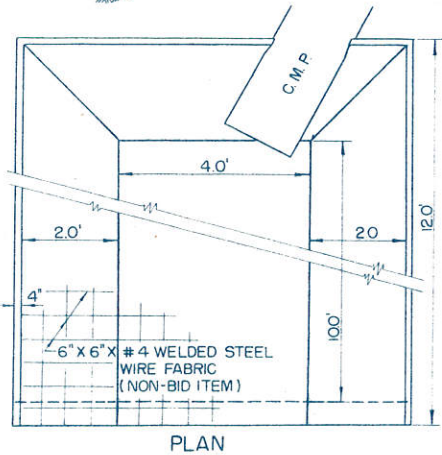
PROJECT	SHEET NUMBER	TOTAL SHEETS
S 0123 (10)	2	41

CONTRACT NO.	STATION TO STATION	NET LENGTH OF CENTER LINE	CLEARING	GRUBBING	EXCAVATION		SAND GRAVEL FILL	FINISHING ROADWAY	OBLITERATING OLD ROAD	GRAVEL OR CRUSHED STONE BASE COURSE	CULVERT PIPE										MARKER POSTS FOR R/W	MARKER POSTS FOR R/W	GRANULAR SUB-BASE COURSE	EXCAV. FOR STRUCT. BRIDGES	CONC. MASONRY BRIDGES	BAR STEEL REINF. BRIDGES	MORTAR RUBBLE MASONRY	GRANULAR BACK FILL	REMOVING PAVEMENT	RIP-RAP	SLOPE PAVING (CONCRETE)	MORTAR RUBBLE DITCH CHECKS	TOPSOIL		FERTILIZER	SEEDING	SODDING	
					UNCL.	BORROW					18"	24"	30"	36"	42"	60"	24" CORR. METAL	72" 8 GA. CORR. METAL	2523-5	2523-6													2201-1	2107-1				2401-1
ITEM NO.	UNIT	LIN. FT.	2101-1 STA.	2101-4 STA.	2106-5 C.Y.	2109-1 C.Y.	210 C.Y.	2110-1 C.Y.	2114-1 L.S.	2116-1 STA.	2203-1 C.Y.	23 C.Y.	2411-1 LIN. FT.	2411-2 LIN. FT.	2411-3 LIN. FT.	2411-4 LIN. FT.	2411-5 LIN. FT.	2411-6 LIN. FT.	2411-2 LIN. FT.	2411-2 LIN. FT.	2523-5 EACH	2523-6 EACH	2201-1 SQ. YD.	2107-1 C.Y.	2401-1 C.Y.	2406-1 LB.	2409-2 C.Y.	2110-1 C.Y.	2105-1 S.Y.	2512-1 C.Y.	2515-2 S.Y.	2516-3 C.Y.	2528-1 SQ. YD.	2528-2 SQ. YD.	2531-1 CWT.	2532-1 SQ. YD.	2533-1 SQ. YD.	
1	0+14 - 140+50	14,036.6	29	31	120,000	48,330							944	960	80	90	142	70	224	182		93	58,020	1,060	488	68,700	31	190		19	29	24	102	13,200		70,500	608	
2										13,400											94																	

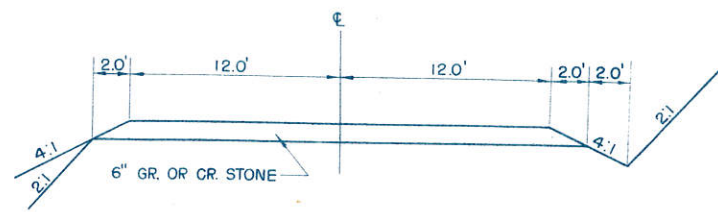
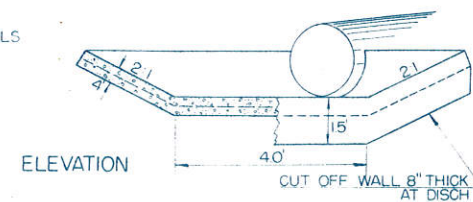


MORTAR RUBBLE MASONRY DROP INLET DETAIL  
STA. 123+67.5 RT.

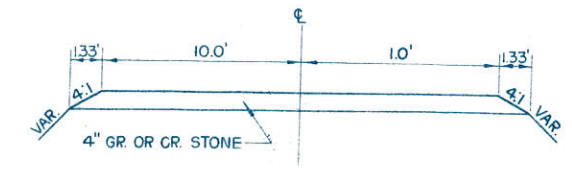
DETAIL OF SLOPE PAVING (CONCRETE)  
STA. 45+50 & 50+00 RT.



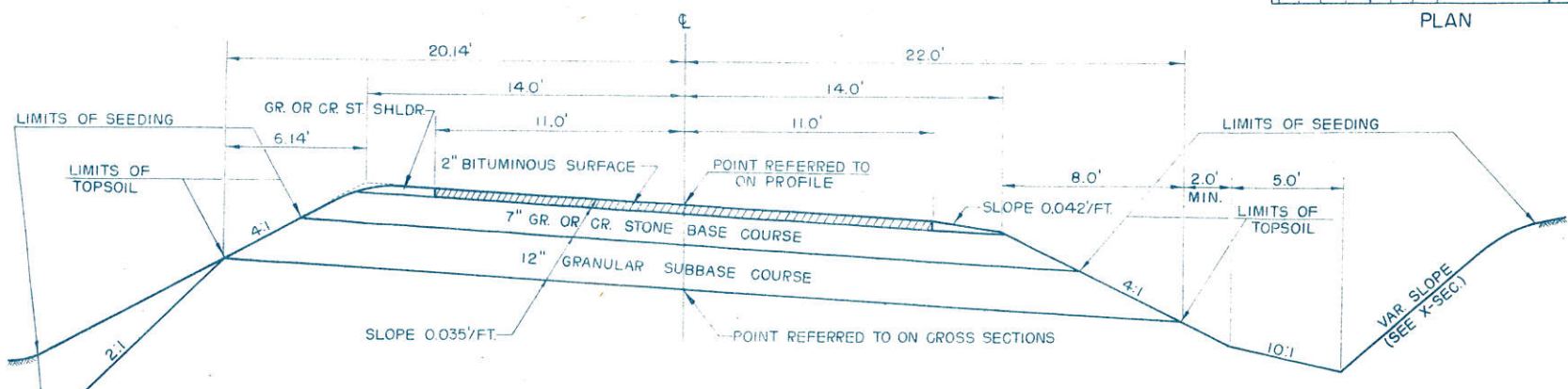
- APPLICABLE DETAIL DRAWINGS
- 1-3.1.1 DETAILS OF PRIVATE ENTRANCE AND SIDE ROAD APPROACHES
  - 1-4.1.1 OBLITERATING OLD ROAD
  - 6-2.4.2 MORTAR RUBBLE MASONRY OR RIPRAP FOR CULVERT & CATTLE PASS END WALLS
  - 7-1.3.3 MARKER POSTS & MARKER POSTS FOR RIGHT OF WAY
  - 7-4.1.2 CONSTRUCTION BARRICADE
  - 8-1.3.1 DITCH CHECKS, MORTAR RUBBLE MASONRY & SOD
  - 6-1.1.1 TREE PRESERVATION DETAILS



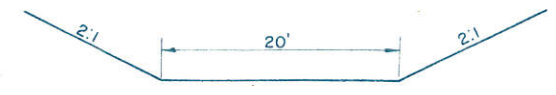
TYPICAL FINISHED SIDE ROAD SECTION



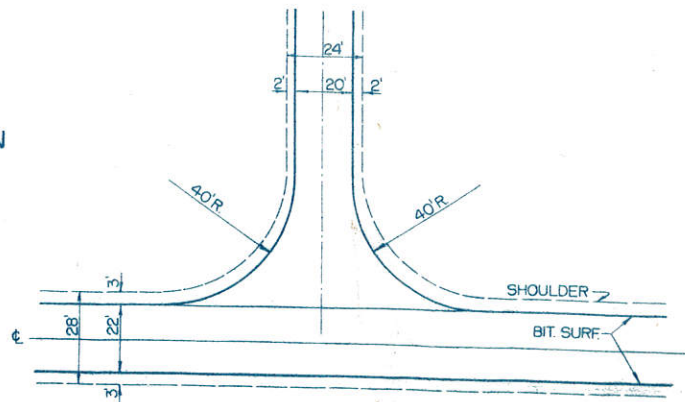
TYPICAL FINISHED PRIVATE ENTRANCE SECTION



TYPICAL FINISHED SUPERELEVATED SECTION



TYPICAL CHANNEL CHANGE SECTION



TYPICAL INTERSECTION DETAIL

NOTE — BITUMINOUS SURFACE NOT A PART OF THIS CONTRACT



# DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

## CLEARING AND GRUBBING

Station	Location	Clearing	Grubbing	C.Y.
1+00 - 2+00	Centerline	1	1	12,000
6+00 - 7+00	Side Rd., Sta. 40+75	1	1	180
8+00 - 9+00	Side Rd., Sta. 64+33	1	1	145
13+00 - 14+00	Side Rd., Sta. 117+23.8	1	1	275
21+00 - 22+00	Lt. Shoulder, Sta. 117+60-118+88	1	1	40
26+00 - 27+00	Private Entrances	1	1	90
30+00 - 32+00	Undistributed	2	2	670
35+00 - 36+00		1	1	
42+00 - 53+00		10	10	
54+00 - 56+00		2	2	
83+00 - 86+00		3	3	
107+00 - 110+00		3	3	
117+00 - 119+00		2	2	
<del>125+00 - 128+00</del>		<del>3</del>	<del>3</del>	
<del>129+00 - 133+00</del>		<del>3</del>	<del>3</del>	
<del>139+00 - 140+00</del>		<del>3</del>	<del>3</del>	
<del>140+00 - 140+00</del>		<del>4</del>	<del>4</del>	

## GRAVEL OR CRUSHED STONE BASE COURSE

Station	Location	C.Y.
Sta. 65 - 71	Centerline	7 Sta.

## SLOPE PAVING (CONCRETE)

Station	Location	S.Y.
45+40	Rt.	12
50+00	Rt.	12

## REMOVING PAVEMENT

Station	Location	S.Y.
125+79 - 125+98	Rt. Driveway	19

## MORTAR RUBBLE MASONRY

Station	Location	Mort. Rubble C.Y.	Sod S.Y.	C.Y.
22300 - 28+00	Rt.	19	76	19.8
23+90 - 28+00	Lt.	12	48	11.2
41+00 - 44+00	Rt.	10	56	
41+20 - 44+85	Lt.	14	24	
47+00 - 48+85	Rt.	6	60	
56+50 - 60+20	Lt.	15	64	
57+20 - 61+00	Rt.	16	92	
61+80 - 67+40	Rt.	23	60	
63+00 - 67+40	Lt.	15	44	
92+00 - 97+00	Lt.	11	44	
92+00 - 97+00	Rt.	11	44	

## DITCH CHECKS

Station	Location	No.	Mort. Rubble C.Y.
2+17	P.E. Rt.	18	12.73
2+58	P.E. Rt.	18	3.20
4+16.8	Centerline	30	6.70
8+68	P.E. Rt.	18	9.38
12+47	Centerline	24	4.02
13+37	P.E. Rt.	18	10.05
17+02	Centerline	24	10.72
21+72	F.E. Rt.	18	15.41
28+30	P.E. Lt.	18	10.05
31+62	P.E. Rt.	18	7.37
32+38	Centerline	24	7.37
39+00	Centerline	24	7.37
40+30	P.E. Rt.	18	7.37
40+71.7	Side Road Rt.	18	7.37
44+30-45+30	Rt. Downdrain	24	7.37
44+25	Centerline	24	7.37
45+84	Centerline	24	7.37
49+00-50+00	Rt. Downdrain	18	7.37
50+25	Centerline	72	7.37
54+00-56+25	Lt. Downdrain	18	7.37
57+00	Centerline	24	7.37
61+35	Centerline	24	7.37
61+35	Downdrain Lt.	24	7.37
64+33	Side Road Lt.	24	7.37
64+33	Side Road Rt.	24	7.37
73+52	Centerline	24	7.37
80+50	Centerline	24	7.37
84+20	P.E. Rt.	18	7.37
85+43	P.E. Lt.	18	7.37
87+36	Centerline	24	7.37
90+85	F.E. Rt.	18	7.37
93+35	F.E. Lt.	18	7.37
99+73	Centerline	36	7.37
108+00	P.E. Rt.	18	7.37
109+76	P.E. Lt.	18	7.37
113+88	Centerline	18	7.37
123+67.5	Centerline	42	7.37
133+25	Centerline	60	7.37
139+13	Centerline	42	7.37
18110+00	Ditch Lt.	24	7.37

## CULVERT PIPE

Station	Location	Diameter Inches	Length Feet	Type	R4rap C.Y.
2+17	P.E. Rt.	18	32	C.P.	0.6
2+58	P.E. Rt.	18	32	C.P.	0.6
4+16.8	Centerline	30	80	C.P.	0.6
8+68	P.E. Rt.	18	32	C.P.	0.6
12+47	Centerline	24	50	C.P.	0.6
13+37	P.E. Rt.	18	44	C.P.	0.6
17+02	Centerline	24	62	C.P.	0.6
21+72	F.E. Rt.	18	32	C.P.	0.6
28+30	P.E. Lt.	18	32	C.P.	0.6
31+62	P.E. Rt.	18	32	C.P.	0.6
32+38	Centerline	24	72	C.P.	0.6
39+00	Centerline	24	52	C.P.	0.6
40+30	P.E. Rt.	18	36	C.P.	0.6
40+71.7	Side Road Rt.	18	100	C.P.	0.6
44+30-45+30	Rt. Downdrain	24	130	C.P.	0.6
44+25	Centerline	24	52	C.P.	0.6
45+84	Centerline	24	224	14 Ga. C.M.C.P.	0.6
49+00-50+00	Rt. Downdrain	18	120	C.P.	0.6
50+25	Centerline	72	182	8 Ga. C.M.C.P.	0.6
54+00-56+25	Lt. Downdrain	18	260	C.P.	0.6
57+00	Centerline	24	46	C.P.	0.6
61+35	Centerline	24	88	C.P.	0.6
61+35	Downdrain Lt.	24	32	C.P.	0.6
64+33	Side Road Lt.	24	90	C.P.	0.6
64+33	Side Road Rt.	24	74	C.P.	0.6
73+52	Centerline	24	60	C.P.	0.6
80+50	Centerline	24	56	C.P.	0.6
84+20	P.E. Rt.	18	32	C.P.	0.6
85+43	P.E. Lt.	18	32	C.P.	0.6
87+36	Centerline	24	52	C.P.	0.6
90+85	F.E. Rt.	18	32	C.P.	0.6
93+35	F.E. Lt.	18	32	C.P.	0.6
99+73	Centerline	36	90	C.P.	1.0
108+00	P.E. Rt.	18	32	C.P.	1.0
109+76	P.E. Lt.	18	32	C.P.	1.0
113+88	Centerline	18	80	C.P.	1.0
123+67.5	Centerline	42	70	C.P.	1.0
133+25	Centerline	60	62	C.P.	1.0
139+13	Centerline	42	62	C.P.	1.0
18110+00	Ditch Lt.	24	44	C.P.	2.0

CONTRACT # 1

PROJECT	S 0123 (10)
SHEET TOTAL	2A 41



# DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

WALKER POSTS (SHOULDER DEFINITION)				WALKER POSTS (CULVERTS)			
Sta. - Sta.	Location	No.	Sta.	No.			
44+50 - 46+50	Rt. Lt.	5	44+16.8	2			
45+00 - 46+85	Lt.	5	12+47	2			
47+50 - 56+00	Lt.	10	17+02	2			
49+25 - 50+80	Rt.	4	32+38	2			
52+00 - 56+80	Rt.	10	39+00	2			
112+50 - 115+50	Lt.	7	40+71.7	2			
113+50 - 117+00	Rt.	2	44+30 - 45+30	1			
122+50 - 125+50	Lt.	7	44+25	1			
123+50 - 124	Rt.	2	45+84	2			
			49+00 - 50+00	2			
			50+25	2			
			52+00 - 56+25	2			
			57+00	2			
			62+35	2			
			73+52	2			
			80+50	2			
			87+36	2			
			99+73	2			
			115+88	2			
			123+67.5	2			
			133+25	2			
			139+33	2			

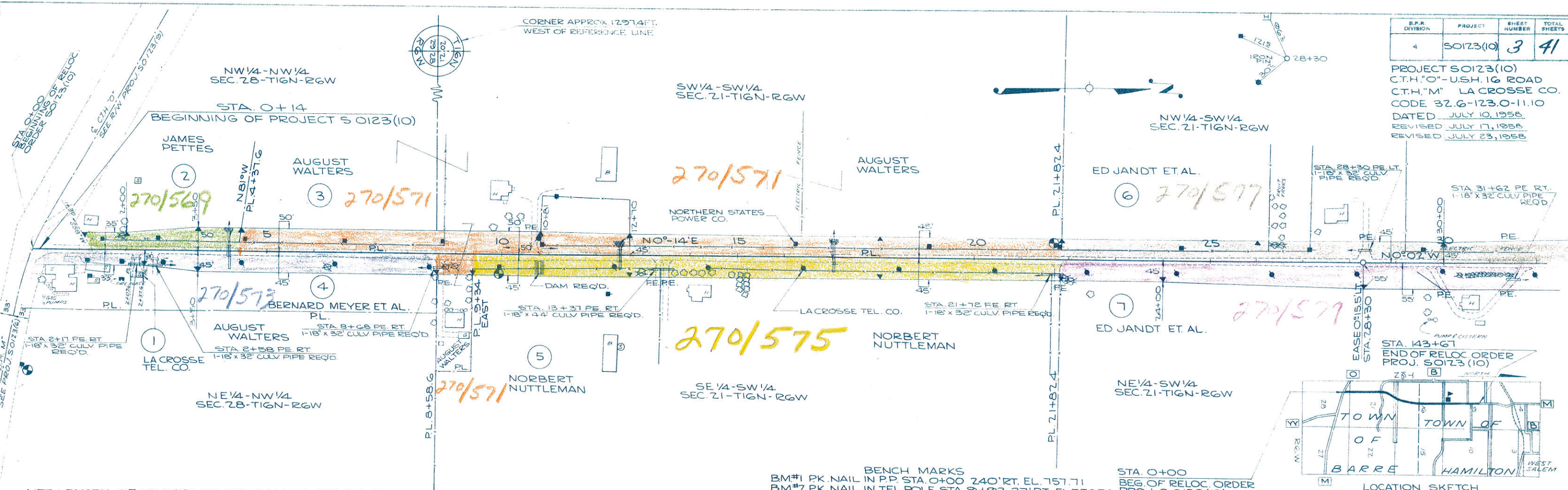
CONTRACT #2

PROJECT	S 0123 (10)
SHEET TOTAL	2B 41
NO. SHEETS	



S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	50123(10)	3	41

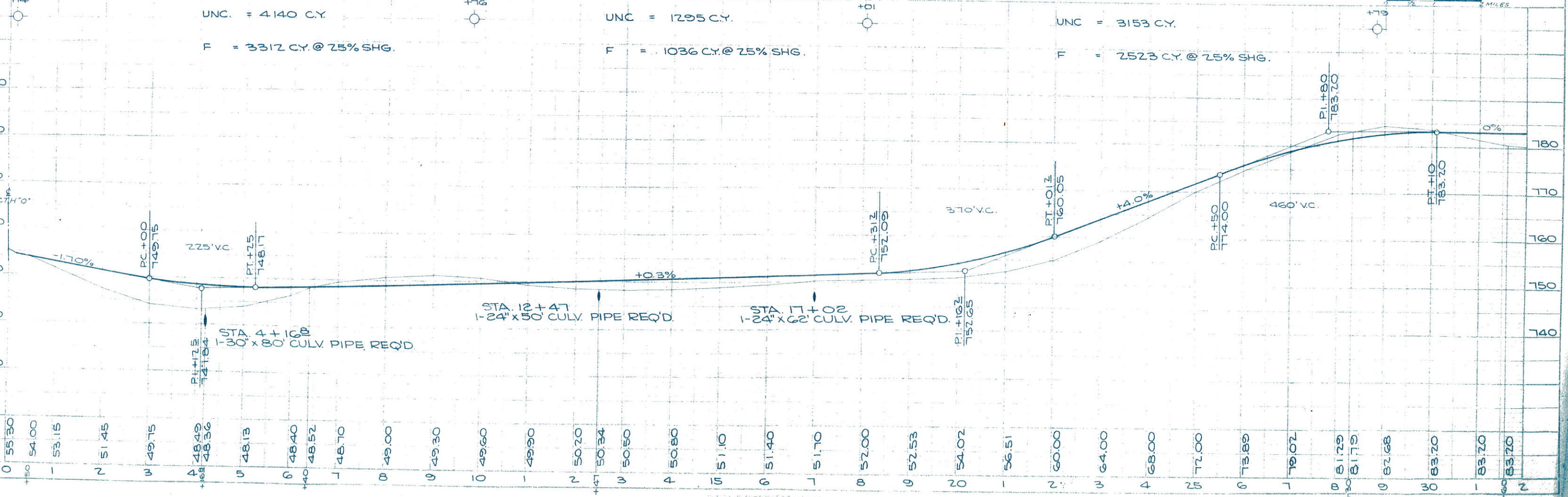
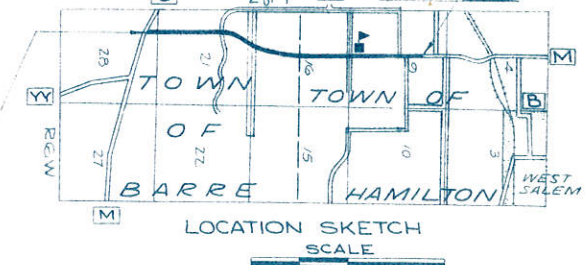
PROJECT 50123(10)  
 C.T.H. "O" - U.S.H. 16 ROAD  
 C.T.H. "M" LA CROSSE CO.  
 CODE 32.6-123.0-11.10  
 DATED JULY 10, 1958  
 REVISED JULY 17, 1958  
 REVISED JULY 23, 1958



NET LENGTH OF CENTERLINE STA. 0+14 TO STA. 30+00 = 2986 LIN. FT.

BENCH MARKS  
 BM#1 PK. NAIL IN PP. STA. 0+00 240' RT. EL. 757.71  
 BM#2 PK. NAIL IN TEL. POLE STA. 9+93 27' RT. EL. 750.74  
 BM#3 PK. NAIL IN PP. STA. 21+81 26' LT. EL. 755.05

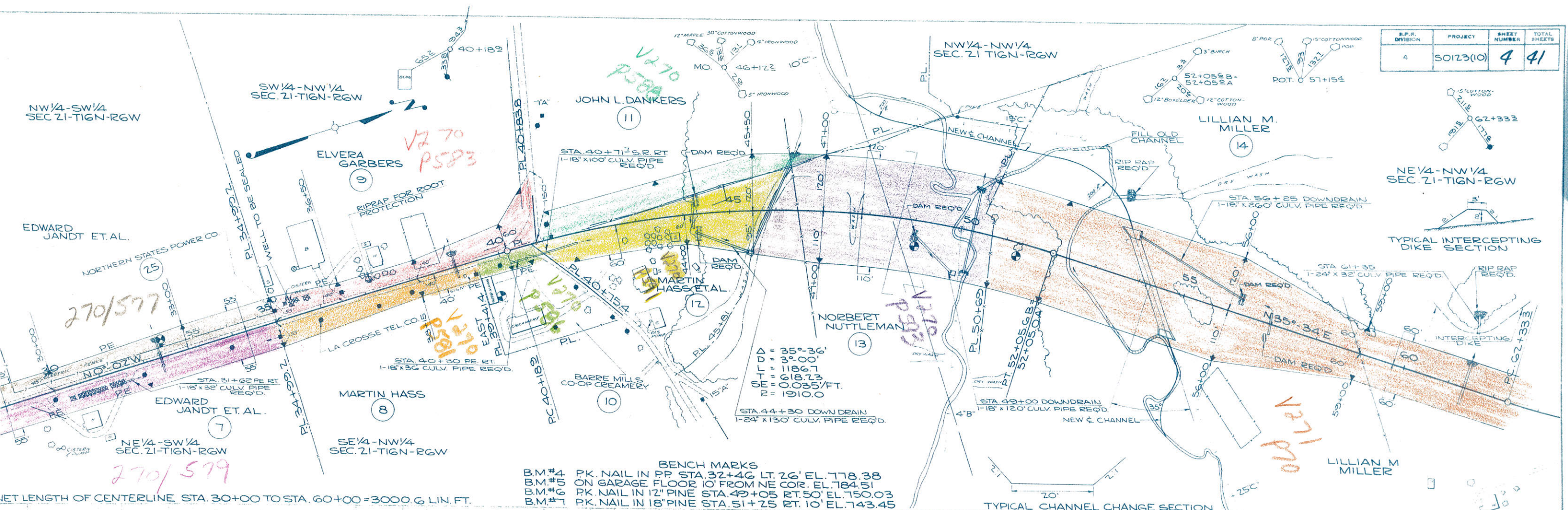
STA. 0+00  
 BEG. OF RELOC. ORDER  
 PROJ. 50123(10)



Station	Elevation (ft)
0	55.30
+50	54.00
-	53.15
N	51.45
W	49.75
+4	48.49
+68	48.36
U	48.13
0	48.40
+40	48.52
-1	48.70
0	49.00
0	49.30
0	49.60
-	49.90
N	50.20
+47	50.34
W	50.50
4	50.80
5	51.10
0	51.40
-1	51.70
0	52.00
0	52.53
20	54.02
-	56.51
0	60.00
0	64.00
4	68.00
25	72.00
0	73.89
-1	76.02
0	81.29
30	81.79
0	82.68
0	83.20
-1	83.70
60	83.70

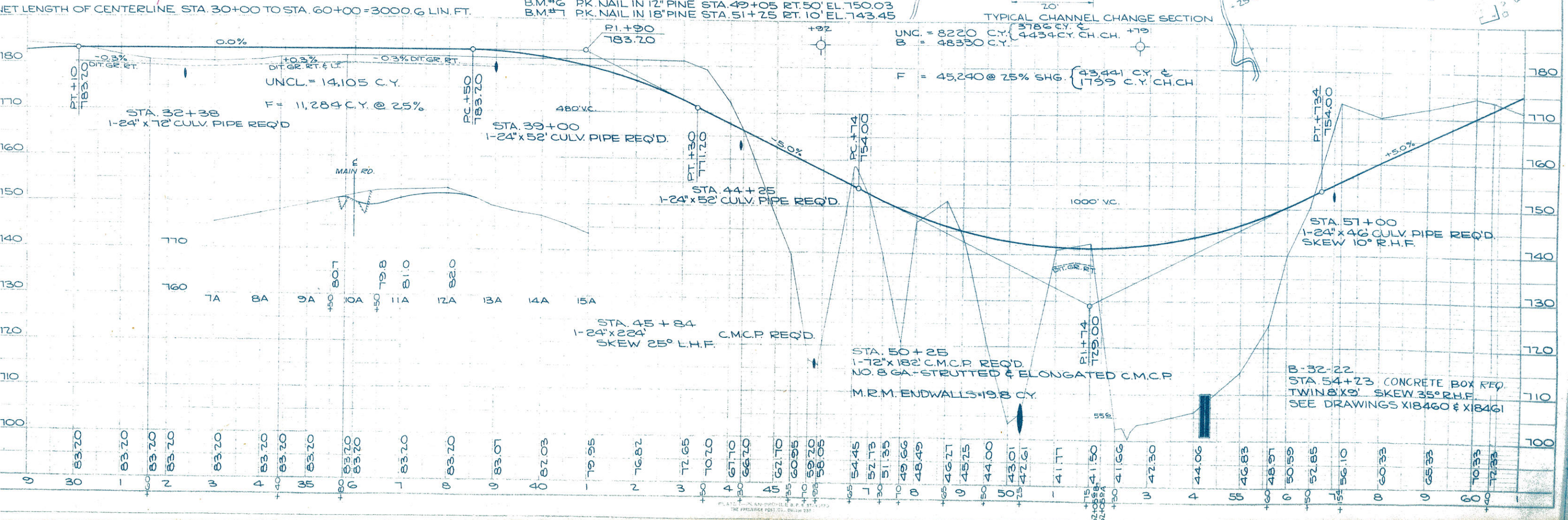


R.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	50123(10)	4	41



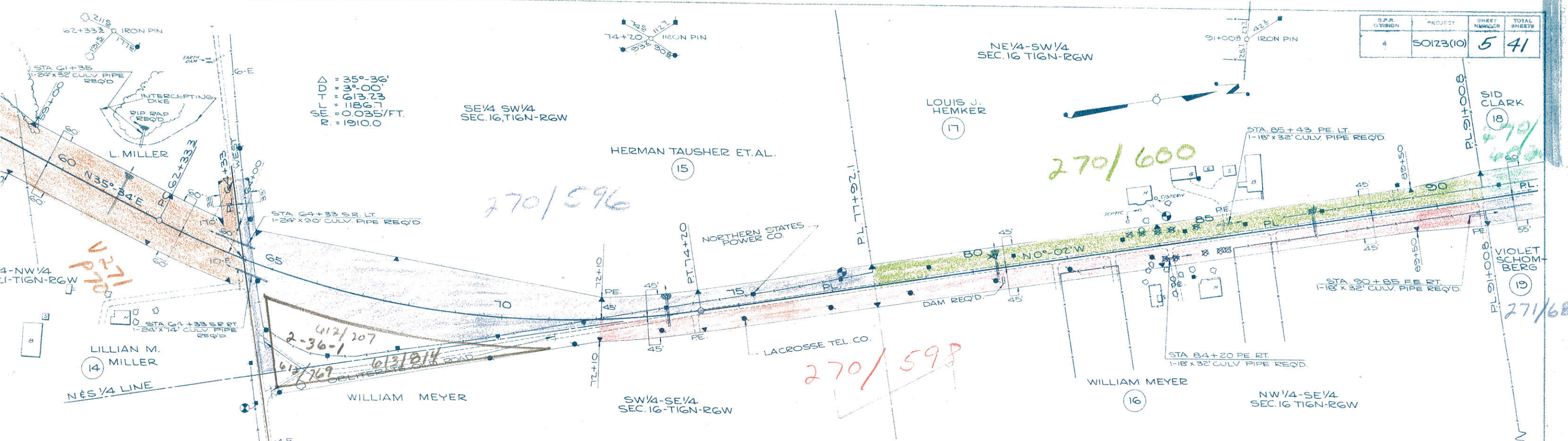
**BENCH MARKS**

B.M.#4	PK. NAIL IN PP STA. 32+46 LT. 26' EL. 778.38
B.M.#5	ON GARAGE FLOOR 10' FROM NE COR. EL. 784.51
B.M.#6	PK. NAIL IN 12' PINE STA. 49+05 RT. 50' EL. 750.03
B.M.#7	PK. NAIL IN 18' PINE STA. 51+25 RT. 10' EL. 743.45





S.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	SO123(10)	5	41



$\Delta = 35^\circ-36'$   
 $TD = 139.00'$   
 $SELT = 613.23$   
 $R = 1186.7$   
 $R = 0.035'/FT.$   
 $R = 1910.0$

SE 1/4 SW 1/4 SEC. 16, T1G-N-RGW

NE 1/4-SW 1/4 SEC. 16 T1G-N-RGW

BENCH MARKS  
 BM#8 SE COR. HEADWALL STA. 4'E+50 - EL. 765.24  
 BM#9 PK. NAIL IN PP STA. 65+60 RT. 2.80' EL. 803.87  
 BM#10 PK. NAIL IN PP STA. 77+17 LT. 2.3' EL. 795.96  
 BM#11 N. COR. OF FIRST STEP OF HOUSE STA. 84+00 LT. 8.1' EL. 795.90

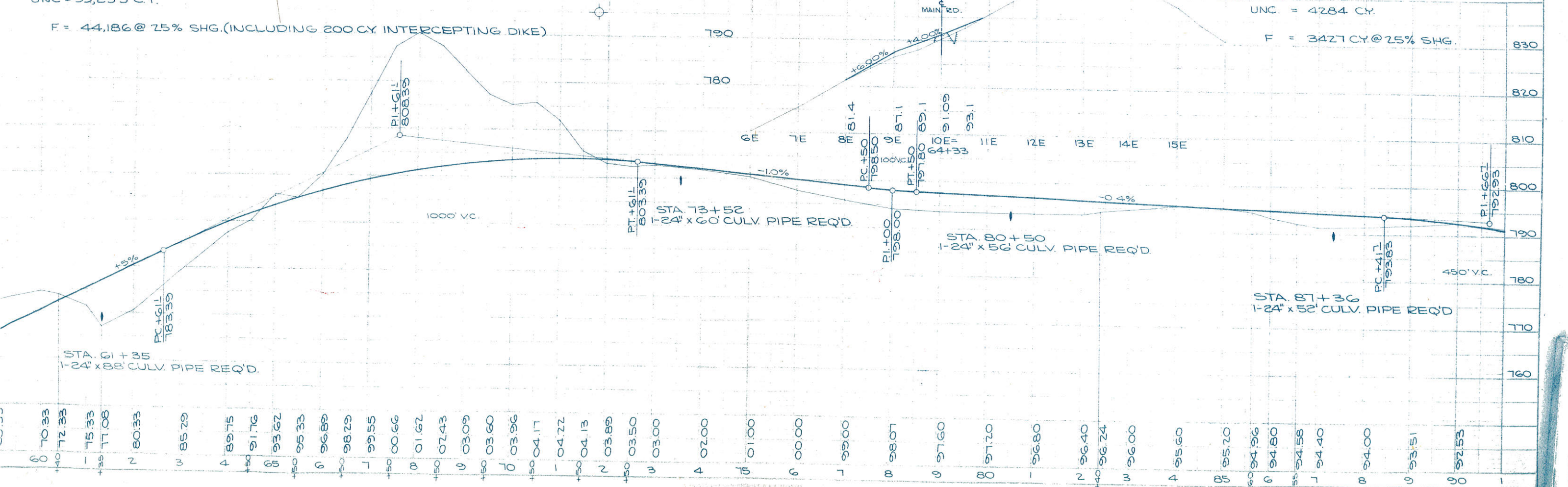
LENGTH OF CENTERLINE STA. 60+00 TO STA. 90+00 = 3000 LIN. FT.

UNC = 55,233 C.Y.

UNC. = 4284 C.Y.

F = 44,186 @ 75% SHG. (INCLUDING 200 C.Y. INTERCEPTING DIKE)

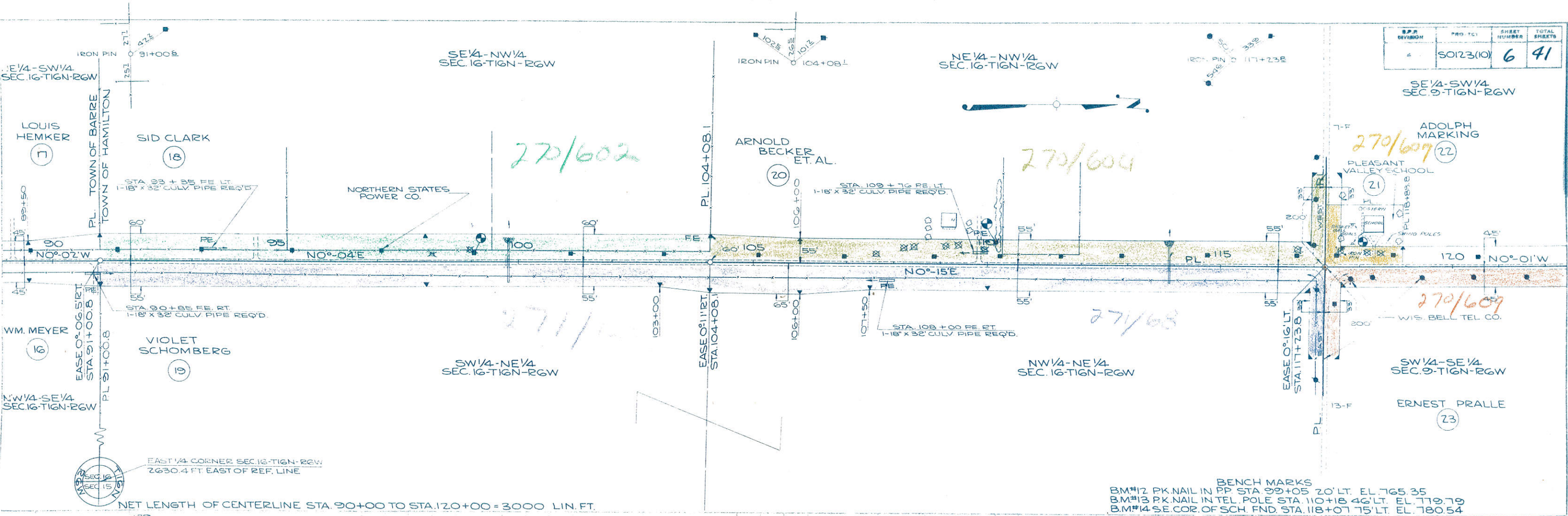
F = 3427 C.Y. @ 75% SHG.



0	70.33	1	71.33	2	72.33	3	73.33	4	74.08	5	75.03	6	76.03	7	77.03	8	78.03	9	79.03	10	80.03	11	81.03	12	82.03	13	83.03	14	84.03	15	85.03	16	86.03	17	87.03	18	88.03	19	89.03	20	90.03
---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	---	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------	----	-------

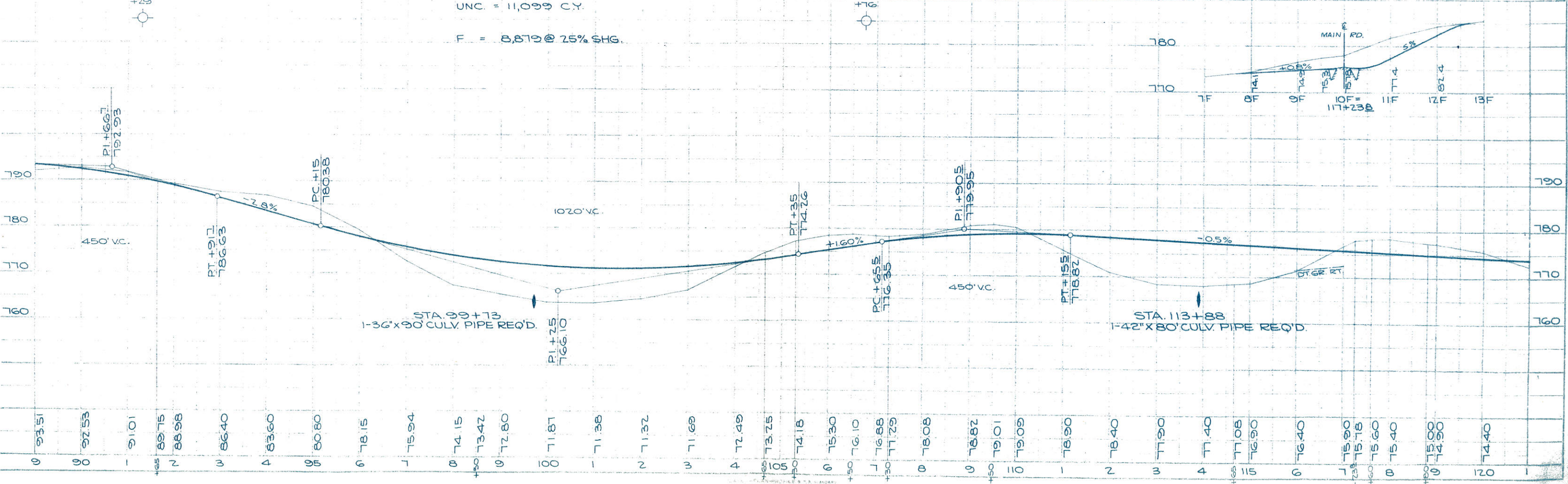


S.P. DEVISION	PROJ. NO.	SHEET NUMBER	TOTAL SHEETS
4	50123(10)	6	41



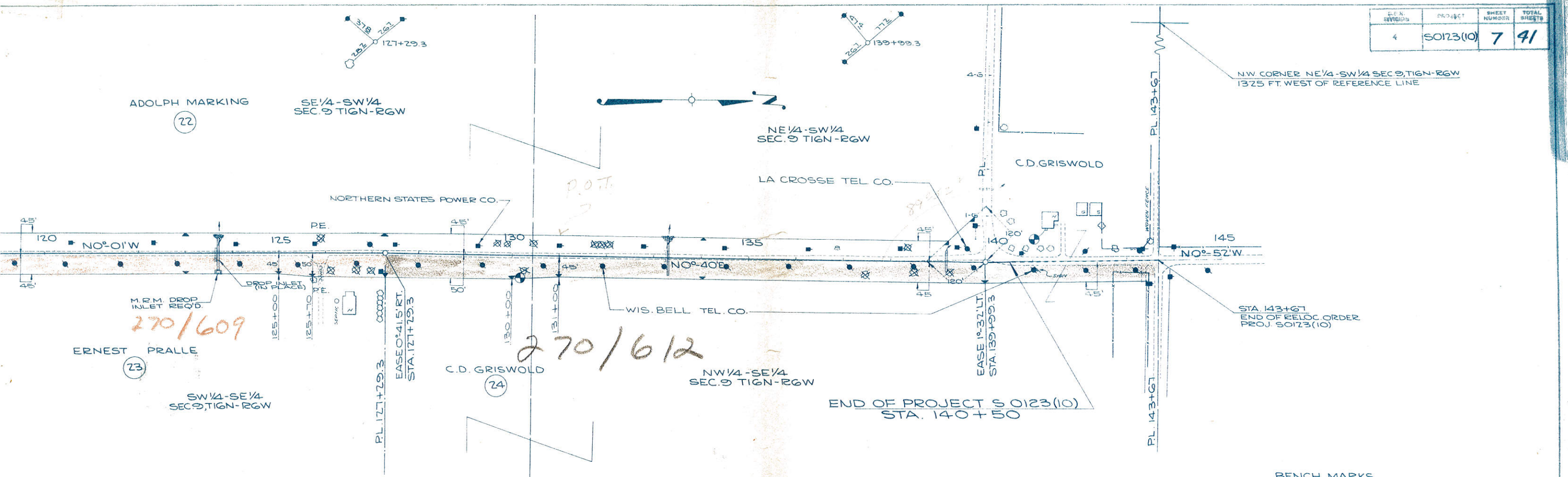
NET LENGTH OF CENTERLINE STA. 90+00 TO STA. 120+00 = 3000 LIN. FT.  
 UNC. = 11,099 C.Y.  
 F = 8,879 @ 25% SHG.

BENCH MARKS  
 B.M.#12 PK. NAIL IN PP STA. 99+05 20' LT. EL. 765.35  
 B.M.#13 PK. NAIL IN TEL. POLE STA. 110+18 46' LT. EL. 779.79  
 B.M.#14 SE. COR. OF SCH. FND. STA. 118+07 75' LT. EL. 780.54





D.E.S. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	SO123(10)	7	41



NET LENGTH OF CENTERLINE STA. 120+00 TO STA. 140+50 = 20500 LIN. FT.

UNC. = 18,471 CY.  
 F = 14,777 CY. @ 25% SHG.

BENCH MARKS  
 BM#15 PK NAIL IN ELM STA. 130+23 26' RT. EL. 772.74  
 BM#16 S.E. COR. STEP OF HOUSE STA. 141+30 70' LT. EL. 769.51

