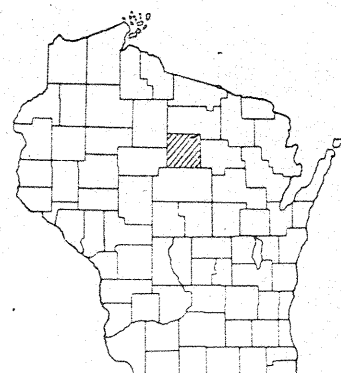


INDEX OF SHEETS

- SHEET NO. 1 TITLE
- SHEET NO. 2-3 TYPICAL CROSS SECTIONS
- SHEET NO. 3 ESTIMATE OF QUANTITIES
- SHEET NO. 3A MISCELLANEOUS QUANTITIES
- SHEET NO. - RIGHT OF WAY PLAT
- SHEET NO. 4-8 PLAN AND PROFILE STA. 94+55 TO STA. 216+22
- SHEET NO. 9-17 STANDARD DETAILS
- SHEET NO. - DRAINAGE STRUCTURES
- SHEET NO. 18-30 CROSS SECTIONS

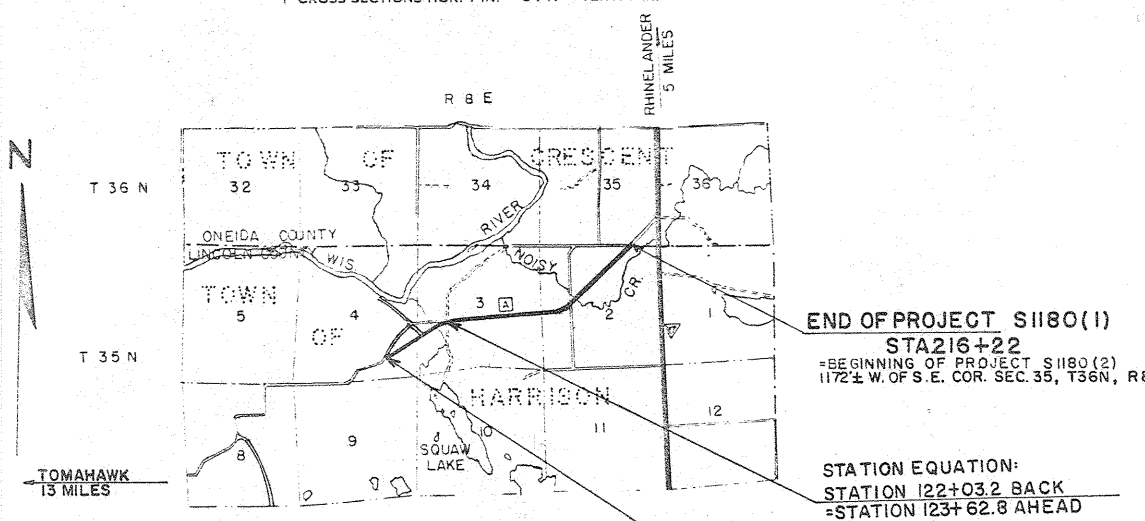


STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

PLAN AND PROFILE OF PROPOSED  
TOMAHAWK - S.T.H. 17 ROAD  
C.T.H. "A"  
LINCOLN COUNTY  
PROJECT S 1180 (1)

COUNTY AND HIGHWAY	ROUTE AND SECTION	CLASS AND AGREEMENT		S.P.P. REGION DIVISION	SHEET NUMBER	TOTAL SHEETS
		STATE	FEDERAL			
35.6	1180.0		11.1	4 WIS.	1	80

PLAN 1 IN. = 100 FT.  
PROFILE HOR. 1 IN. = 100 FT. VERT. 1 IN. = 10 FT.  
CROSS SECTIONS HOR. 1 IN. = 5 FT. VERT. 1 IN. = 5 FT.



END OF PROJECT S1180(1)  
STA 216+22  
= BEGINNING OF PROJECT S1180(2)  
1172' ± W. OF S.E. COR. SEC. 35, T36N, R8E

STATION EQUATION:  
STATION 122+03.2 BACK  
= STATION 123+62.8 AHEAD

BEGINNING OF PROJECT S1180(1)  
STA. 94+55  
1200' ± S. & 980' W. OF E. 1/4 COR.  
SEC. 4, T35N, R8E

APPROVED FOR  
*Francis X Fox*  
Date: Dec 20 '62 Title

CONVENTIONAL SIGNS

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>STATE LINE .....</li> <li>COUNTY LINE .....</li> <li>TOWNSHIP OR RANGE LINE .....</li> <li>SECTION LINE .....</li> <li>NEW RIGHT OF WAY LINE .....</li> <li>PRESENT RIGHT OF WAY LINE .....</li> <li>WIRE FENCE { WOVEN .....</li> <li style="padding-left: 20px;">BARBED .....</li> <li>LOT LINE .....</li> <li>CORPORATE OR CITY LIMITS .....</li> <li>PROPERTY LINE .....</li> <li>TRAVELED WAY OR P.E. ....</li> <li>RAILROADS .....</li> <li>BASE OR SURVEY LINE .....</li> </ul> | <ul style="list-style-type: none"> <li>CULVERTS IN PLACE .....</li> <li>CULVERTS REQUIRED .....</li> <li>DROP INLET .....</li> <li>POWER POLE .....</li> <li>TELEPHONE OR TELEGRAPH POLE .....</li> <li>RIGHT OF WAY MARKERS .....</li> <li>REFERENCE STAKE FOR HUBS ONLY .....</li> <li>MARSH .....</li> <li>HEDGE .....</li> <li>TREES .....</li> <li>GROUND ELEVATION .....</li> <li>GRADE ELEVATION .....</li> </ul> |
|---|--|

LAYOUT  
SCALE 1 MILE  
TOTAL NET LENGTH OF CENTERLINE = 2.274 MI.

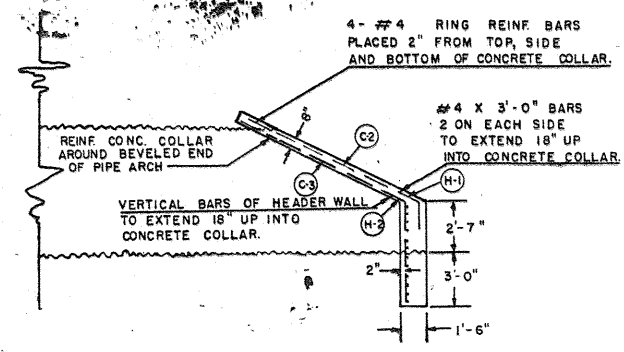
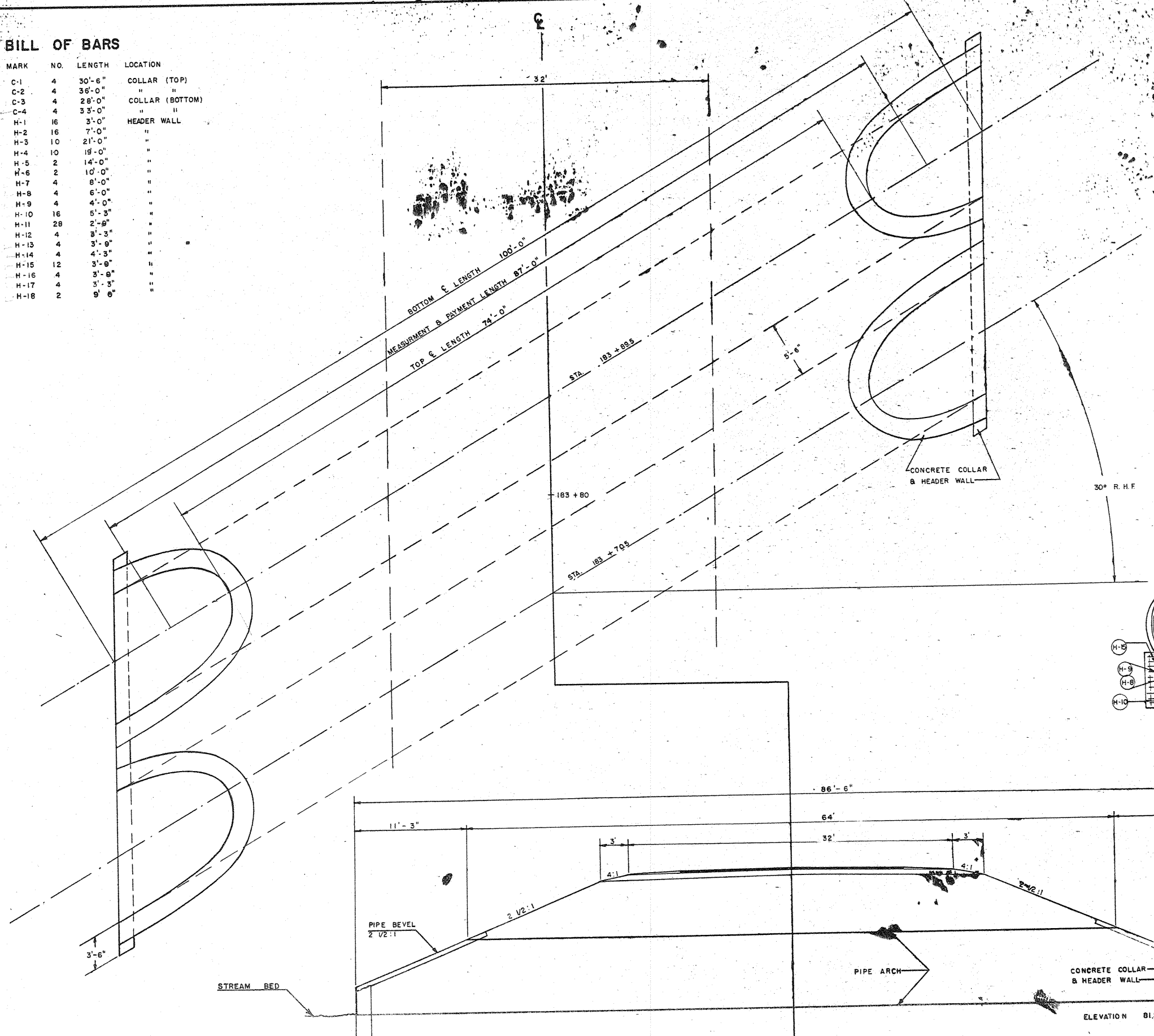
STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.	
SURVEYOR: H. OHM	NOTE BOOK: 195
DIVISION COMPUTER: MC NOWN	W. O. CHECKER: RLC
DISTRICT CHECKER: G. FUNK	CORRECT
CORRECT	
DATE: 11/15/62 <i>Mark J. Jett</i> DISTRICT ENGINEER	
RECOMMENDED FOR APPROVAL:	
DATE: 11/21/62 <i>J. J. Pelt</i> IN CHARGE OF DESIGN	
APPROVED	
DATE: 11/21/62 <i>E. L. Ruetten</i> STATE HIGHWAY ENGINEER	
DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS	
APPROVED	
DATE	
DIVISION ENGINEER	

S1180(1)

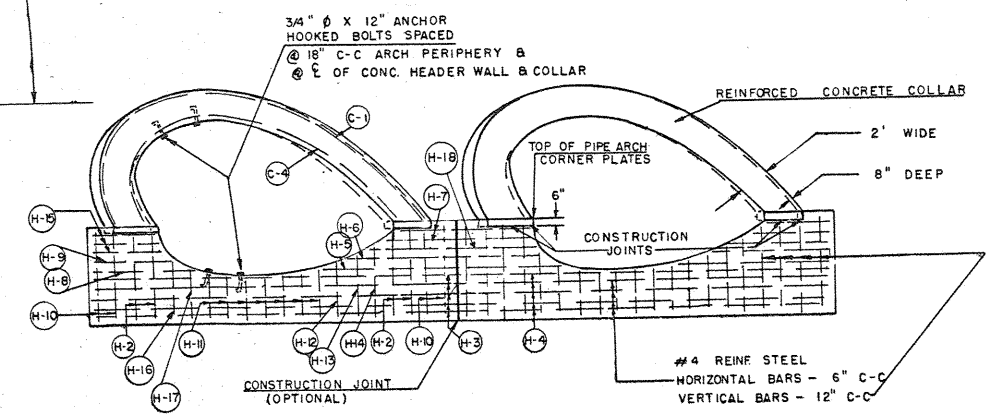
**BILL OF BARS**

MARK	NO.	LENGTH	LOCATION
C-1	4	30'-6"	COLLAR (TOP)
C-2	4	36'-0"	" "
C-3	4	28'-0"	COLLAR (BOTTOM)
C-4	4	33'-0"	" "
H-1	16	3'-0"	HEADER WALL
H-2	16	7'-0"	" "
H-3	10	21'-0"	" "
H-4	10	19'-0"	" "
H-5	2	14'-0"	" "
H-6	2	10'-0"	" "
H-7	4	8'-0"	" "
H-8	4	6'-0"	" "
H-9	4	4'-0"	" "
H-10	16	5'-3"	" "
H-11	28	2'-9"	" "
H-12	4	3'-3"	" "
H-13	4	3'-9"	" "
H-14	4	4'-3"	" "
H-15	12	3'-9"	" "
H-16	4	3'-9"	" "
H-17	4	3'-3"	" "
H-18	2	9' 0"	" "

**TWIN STRUCTURAL PLATE PIPE ARCHES**  
**STA. 183 + 80**  
**11' SPAN - 10' GAGE**



**SIDE ELEVATION**



**END ELEVATION**  
**BEVELLED-SKEWED ENDS**

**GENERAL NOTES-**

- ALL CONCRETE USED IN HEADER WALLS AND COLLARS TO BE GRADE A-A
- STANDARD SPECIFICATIONS REFERENCE, SECTION 2412
- ALL REINFORCING BARS TO BE SIZE #4
- NON-BID ITEM - 120 HOOKED ANCHOR BOLTS REQ'D.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED UNLESS OTHERWISE SHOWN OR NOTED.

**PLAN & PROFILE VIEWS**

# ESTIMATE OF QUANTITIES

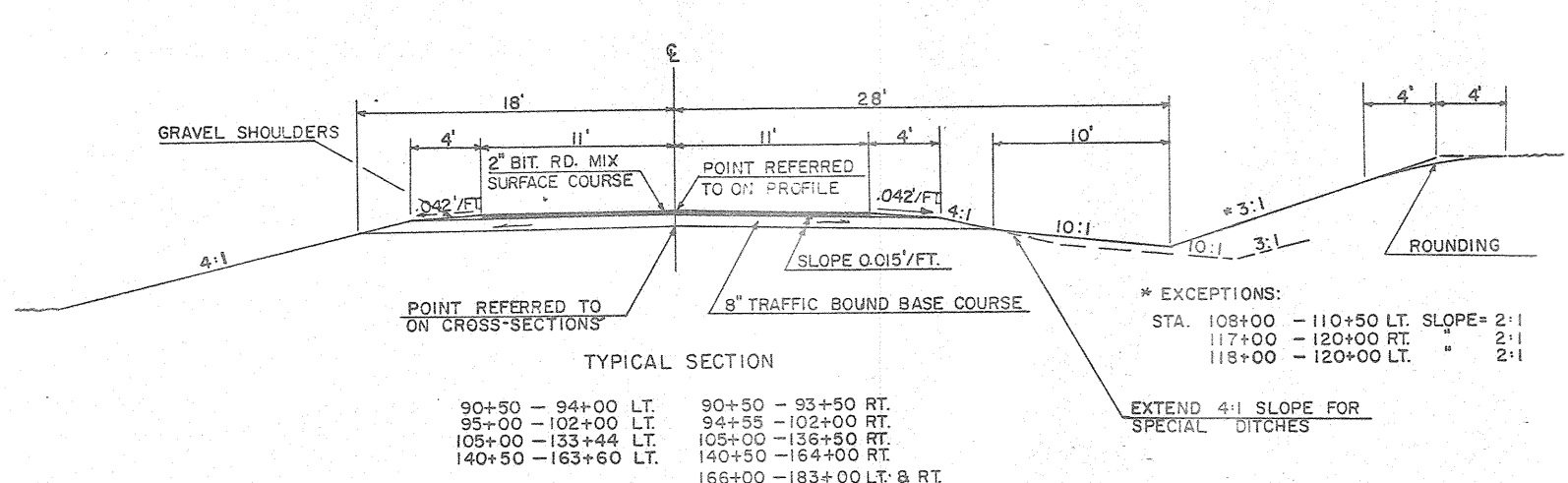
CONTRACT NO. 1

PROJECT	SHEET NUMBER	TOTAL SHEETS
S1180(1)	3	80

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

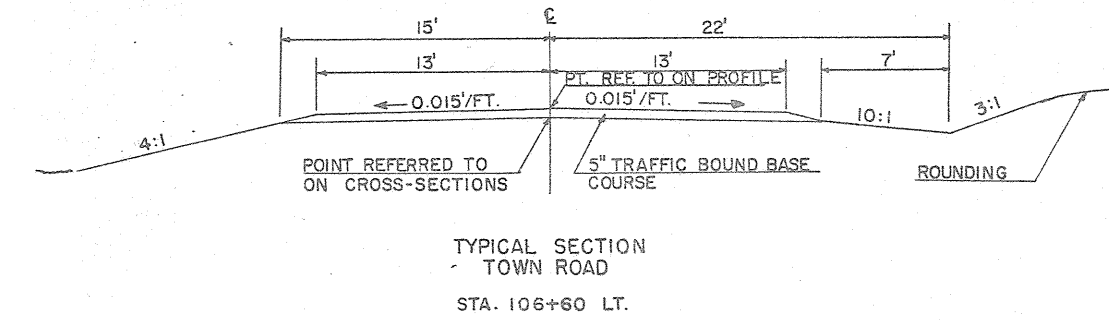
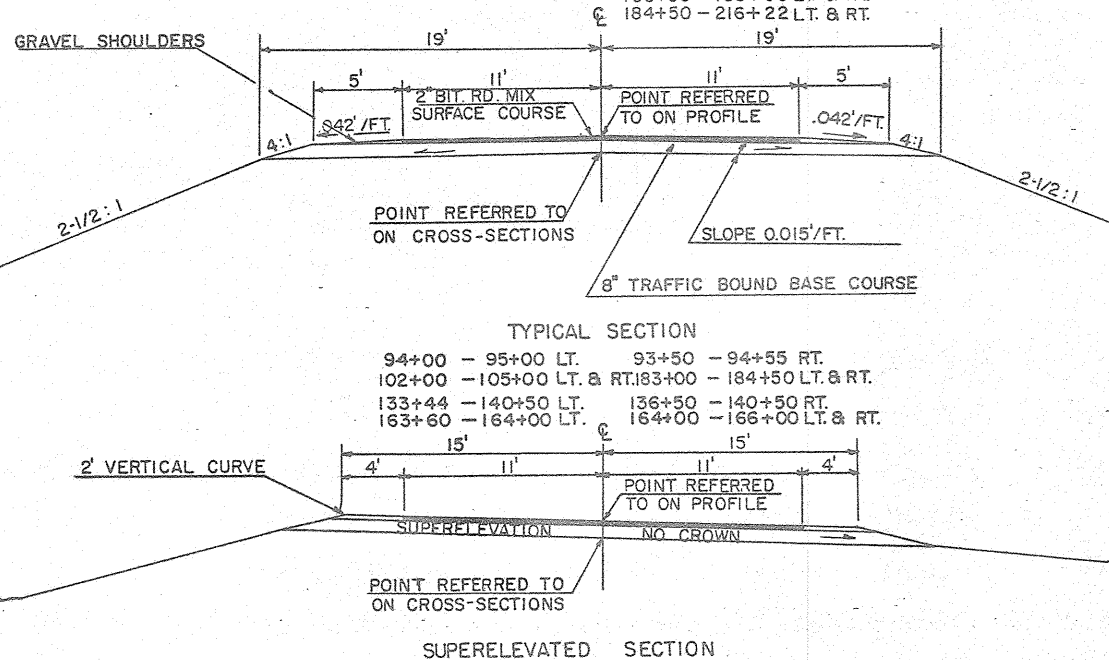
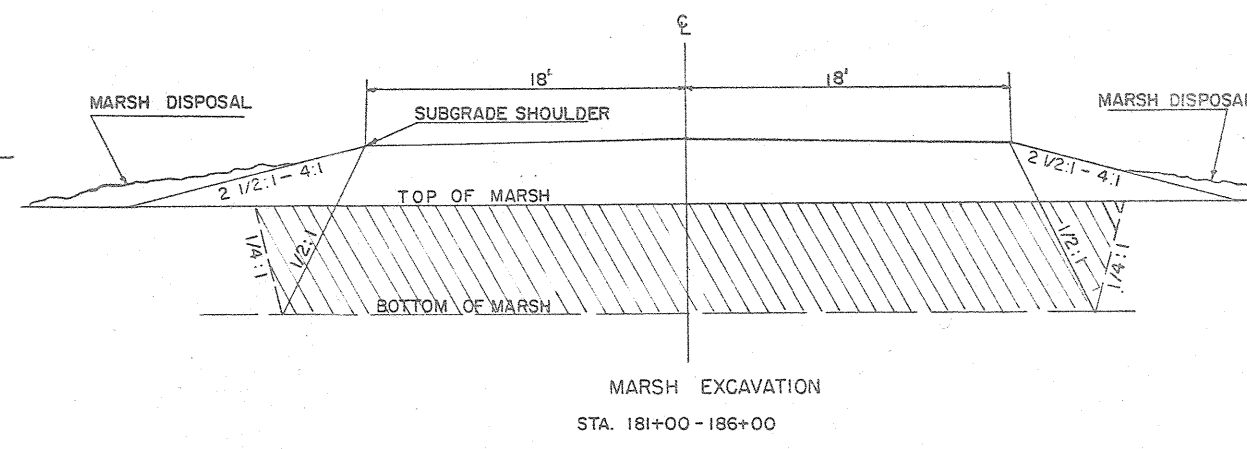
STATION TO STATION	NET LENGTH OF CENTER LINE	CLEAR-ING	GRUB-BING	MARSH EXCAVATION	UNCLASSIFIED EXCAVATION	FINISHING ROADWAY	TRAFFIC BOUND BASE COURSE	BITUMINOUS ROAD MIX SURFACE	AGGREGATES FOR BITUMINOUS ROAD MIX SURFACE	BITUMINOUS MATERIAL FOR SURFACE COURSE	CONCRETE MASONRY CULVERTS	BAR STEEL REINFORCEMENT CULVERTS	MORTAR RUBBLE MASONRY CULVERT PIPE 18 INCH	CULVERT PIPE 24 INCH	STRUCTURAL PLATE PIPE ARCH 8' SPAN 12 GAGE	STRUCTURAL PLATE PIPE ARCH 11' SPAN 10 GAGE	MARKER POSTS	SODDING	STEEL PLATE BEAM GUARD	EXCAVATION FOR STRUCTURES, CULVERTS, MARKER POSTS FOR RIGHT OF WAY				
ITEM NO.	LIN. FT.	ACRE	ACRE	CU.YD.	CU.YD.	LUMP SUM	CU.YD.	SQ.YD.	CU.YD.	GAL.	CU.YD.	LBS.	CU.YD.	LIN.FT.	LIN.FT.	LIN.FT.	EACH	SQ.YD.	LIN.FT.	CU.YD.	EACH			
87+60 - 94+55		1.8	1.8	0	11,048	0.03	420	1100	115	400	0	0	0	0	0	0	5	0	0	0	0			
TEMPORARY APPROACH																								
94+55 - 216+22	12,007.4	9.9	9.5	3038	151,652	0.97	13,280	29,400	2645	40,600	24.8	1000	50	240	444	110	174	57	2540	231	38	37		
<b>TOTALS</b>	12,007.4	11.7	11.3	3038	162,700	1	13,700	30,500	2760	41,000	24.8	1000	50	240	444	110	174	62	2540	231	38	37		

⊗ INCLUDES SHOULDER GRAVEL



\* EXCEPTIONS:  
STA. 108+00 - 110+50 LT. SLOPE= 2:1  
117+00 - 120+00 RT.    "    2:1  
118+00 - 120+00 LT.    "    2:1

EXTEND 4:1 SLOPE FOR SPECIAL DITCHES



**GENERAL NOTES:**

NOTE: WHEN THE QUANTITY OF THE ITEMS OF SUBBASE, BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER

**APPLICABLE STANDARD DETAIL DRAWINGS**

- 1-3.1.1 DETAILS OF PRIVATE ENTRANCE AND SIDE ROAD APPROACHES
- 6-2.4.2 MORTAR RUBBLE MASONRY OR RIPRAP FOR CULVERT & CATTLE PASS END WALLS
- 6-2.5.1 RIPRAP AT SIDE ROAD CULVERTS & RIPRAP OR SOD AT PRIVATE ENTRANCE CULVERTS
- 6-5.3.1 STRUCTURAL PLATE PIPE ARCH & CORR. METAL PIPE ARCH
- 7-1.3.3 MARKER POST & MARKER POSTS FOR RIGHT OF WAY
- 8-1.3.1 DITCH CHECKS, MORTAR RUBBLE MASONRY & SOD
- 9-1.1.3 DESIGN AND LAYOUT DETAILS FOR SIDE ROAD AT GRADE INTERSECTIONS
- 7-4.1.3 CONSTRUCTION BARRICADE
- 7-2.4.9 STEEL PLATE BEAM GUARD

NOTE: THE TOP 6" OF THE SUBGRADE SOIL SHALL MEET THE REQUIREMENTS OF SECTION 3106.03 OF THE STANDARD SPECIFICATIONS, EDITION OF 1957, OR BE REPLACED BY SUITABLE MATERIAL.



### DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

CLEARING & GRUBBING	Acres CLEARING	Acres GRUBBING
87+60 - 94+55 (approach)	1.8	1.8
94+55 - 124+00	6.1	6.1
124+00 - 152+00	1.0	1.0
152+00 - 178+10	1.5	1.5
178+10 - 181+00	0	0
181+00 - 189+00	1.3	0.9
189+00 - 216+22	0	0
<b>TOTALS</b>	<b>11.7</b>	<b>11.3</b>

UNCLASSIFIED EXCAVATION	Location	Cu. Yards
Cross Sections--App. 87+60 - 94+55		11,048
Cross Sections 94+55 - 216+22		149,802
Channel Change 114+00 Rt.		100
E.E.S.		1,739
<b>TOTAL</b>		<b>162,700</b>

EXCAVATION BELOW SUBGRADE	Sta.-Sta.	Cu. Yd.
97+00 - 99+00		200
106+00 - 107+00		150
107+50 - 108+00		75
102+25 - 102+75		75
115+00 - 117+00		250
132+00 - 133+00		100
142+00 - 146+00		400
151+50 - 152+50		100
157+50 - 157+75		50
162+60 - 163+00		50
169+75 - 170+25		50
179+00 - 179+50		50
190+00 - 191+00		150
200+75 - 201+25		50
<b>TOTAL</b>		<b>1,750</b>

STEEL PLATE BEAM GUARD	Sta.	Lin. Ft.
	183+55 - 184+70 Lt.	115.5
	183+10 - 184+25 Rt.	115.5
<b>TOTAL</b>		<b>231.0</b>

CULVERT SCHEDULE		Culvert Pipe		Structural Plate		Mortar	Marker
Station	Location	18"	24"	12' span	10' span	Rubble Masonry	Posts
114+00	x		50	110		20.0	2
115+00	Tn. Rd.					2.0	
124+30	x		80			2.0	2
134+50	P.E.	30				2.0	
148+50	P.E.	30				2.0	
149+44	P.E.	30				2.0	
153+70	x		70			2.0	2
155+53	P.E.	30				2.0	
155+75	P.E.	30				2.0	
174+82	P.E.	30				2.0	
178+40	Tn. Rd.		50			2.0	
178+40	Tn. Rd.		50			2.0	
183+80	x			174			2
190+00	P.E.	30				2.0	
190+00	P.E.	30				2.0	
207+00	x		80			2.0	2
212+00	x		64			2.0	2
<b>TOTALS</b>		<b>240</b>	<b>444</b>	<b>110</b>	<b>174</b>	<b>50.0</b>	<b>12</b>

MARKER POSTS	Station-Station	No.
92+50 - 94+50 Rt.		5
94+00 - 95+00 Lt.		3
102+00 - 105+00 Rt.		7
102+00 - 105+50 Lt.		8
133+00 - 141+00 Lt.		8
136+00 - 141+00 Rt.		5
163+50 - 166+50 Lt.		7
163+50 - 166+50 Rt.		7
From Culvert Schedule		<b>12</b>
<b>TOTAL</b>		<b>62</b>

SCODING	Location	Type	No.	Size	Sq. Yds.
108+50 - 112+50	L & R	Checks	34	6x18	408
112+75 - 113+25	L & R	Flumes	2	18x50	200
115+00 - 115+50	Rt.	Flume	1	18x50	100
115+80 - 116+00	Lt.	Flume	1	18x50	100
116+00 - 121+00	L & R	Checks	24	6x18	288
125+50 - 129+00	L & R	Checks	14	6x18	168
141+00 - 141+50	L & R	Flumes	2	18x50	200
142+00 - 150+00	L	Checks	14	6x18	168
142+00 - 143+00	R	Checks	3	6x18	36
146+00 - 151+00	R	Checks	9	6x18	108
157+00 - 157+00	L & R	Checks	2	6x18	24
163+00 - 163+00	L & R	Checks	2	6x18	24
172+00 - 178+50	L & R	Checks	35	6x18	420
179+00 - 179+50	L & R	Flumes	2	18x62	22
190+00 - 192+00	L & R	Checks	6	6x18	72
<b>TOTAL</b>					<b>2,540</b>

TRAFFIC BOUND BASE COURSE	Sta.-Sta.	CU. YD.
90+50 - 94+55		420
94+55 - 216+22		12,322
106+60 Tn. Rd.		216
5 Tn. Rd.		250
P.E.s		492
<b>TOTAL</b>		<b>13,700</b>

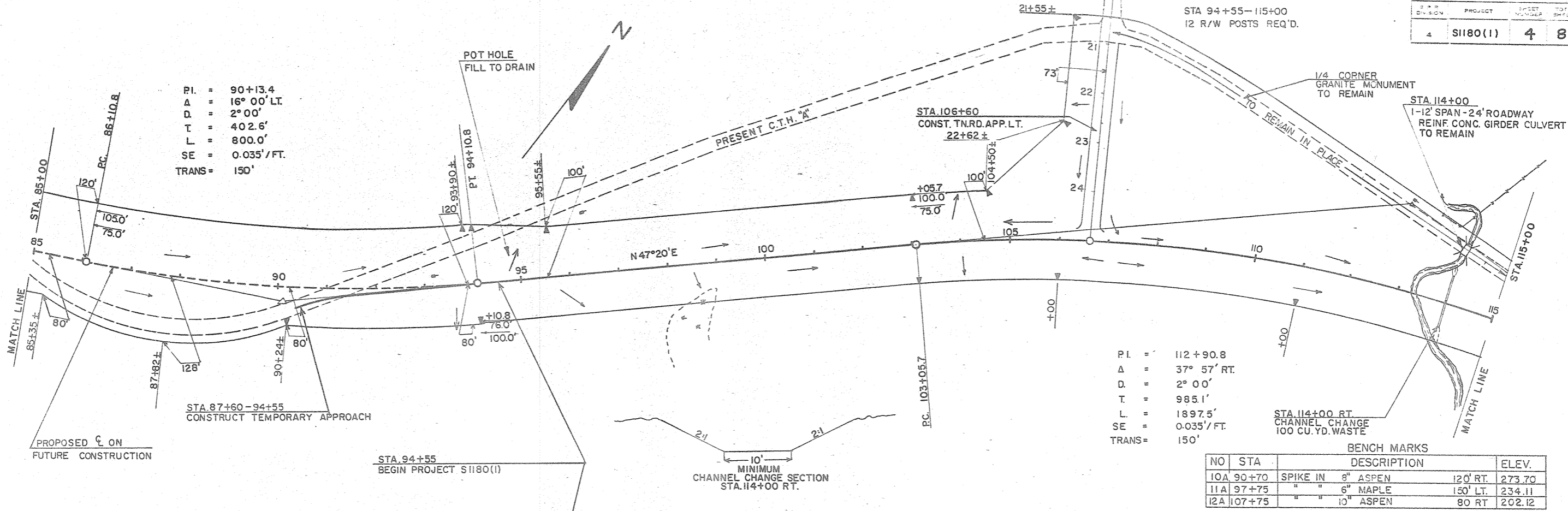
DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	SI180(1)	4	80

P.I. = 90+13.4  
 Δ = 16° 00' LT.  
 D. = 2° 00'  
 T = 402.6'  
 L = 800.0'  
 SE = 0.035'/FT.  
 TRANS = 150'

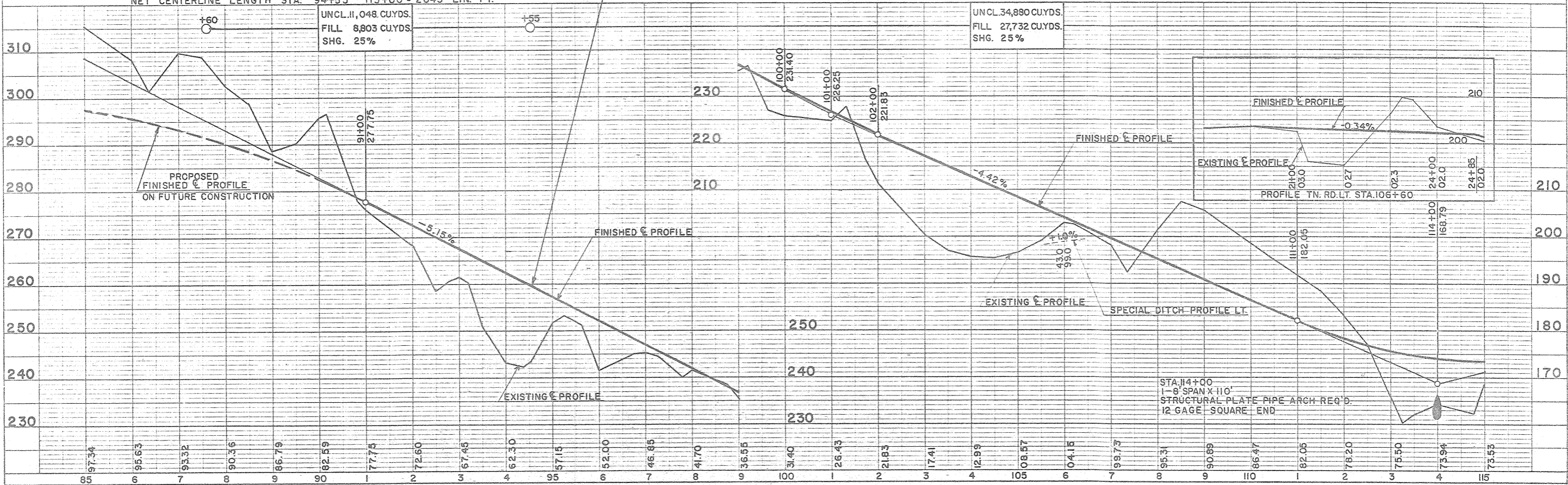
P.I. = 112+90.8  
 Δ = 37° 57' RT.  
 D. = 2° 00'  
 T = 985.1'  
 L = 1897.5'  
 SE = 0.035'/FT.  
 TRANS = 150'

BENCH MARKS

NO	STA	DESCRIPTION	ELEV.
10A	90+70	SPIKE IN 8" ASPEN 120' RT.	273.70
11A	97+75	" " 6" MAPLE 150' LT.	234.11
12A	107+75	" " 10" ASPEN 80 RT.	202.12



NET CENTERLINE LENGTH STA. 94+55 - 115+00 = 2045 LIN. FT.



PLAN  
 DATE: 196  
 DWG. NO. 196

PROFILE  
 DATE: 196  
 DWG. NO. 196

EXHIBIT NO. 40

PLATE 1: PLAN PROFILE P.P.P. & P.  
 CHARLES SWINNEY COMPANY, INC.

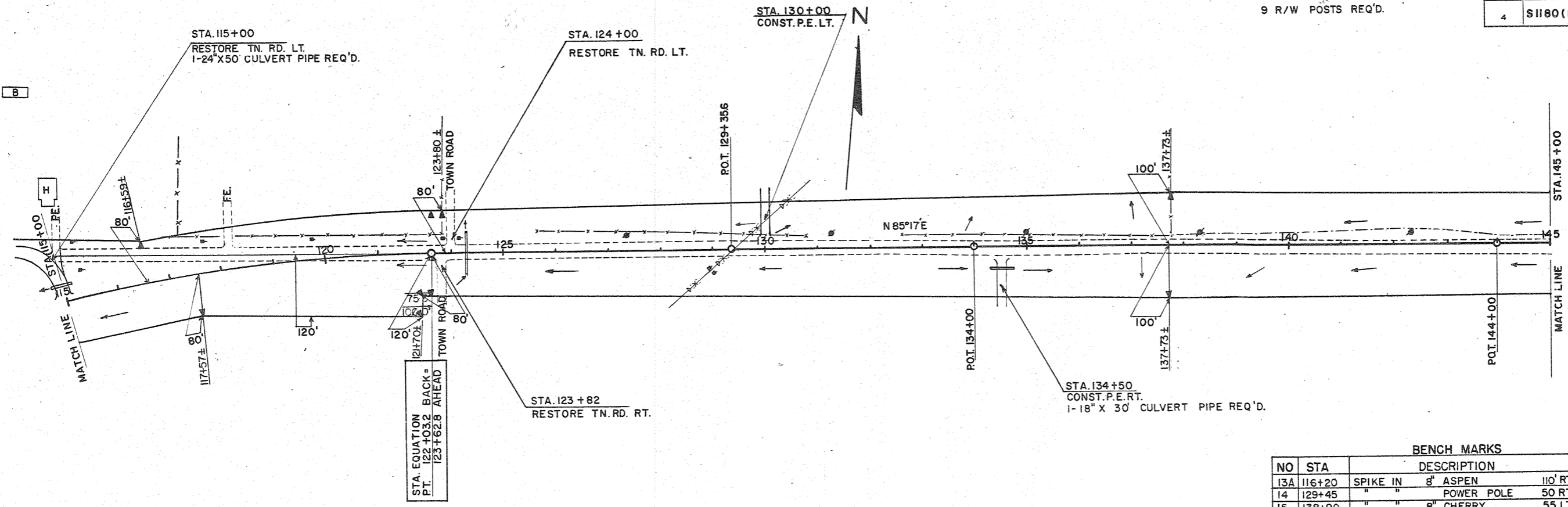
PLAN & PROFILE STA. 85+00-115+00



STA. 115+00-145+00  
9 R/W POSTS REQ'D.

S. P. R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1180(1)	5	80

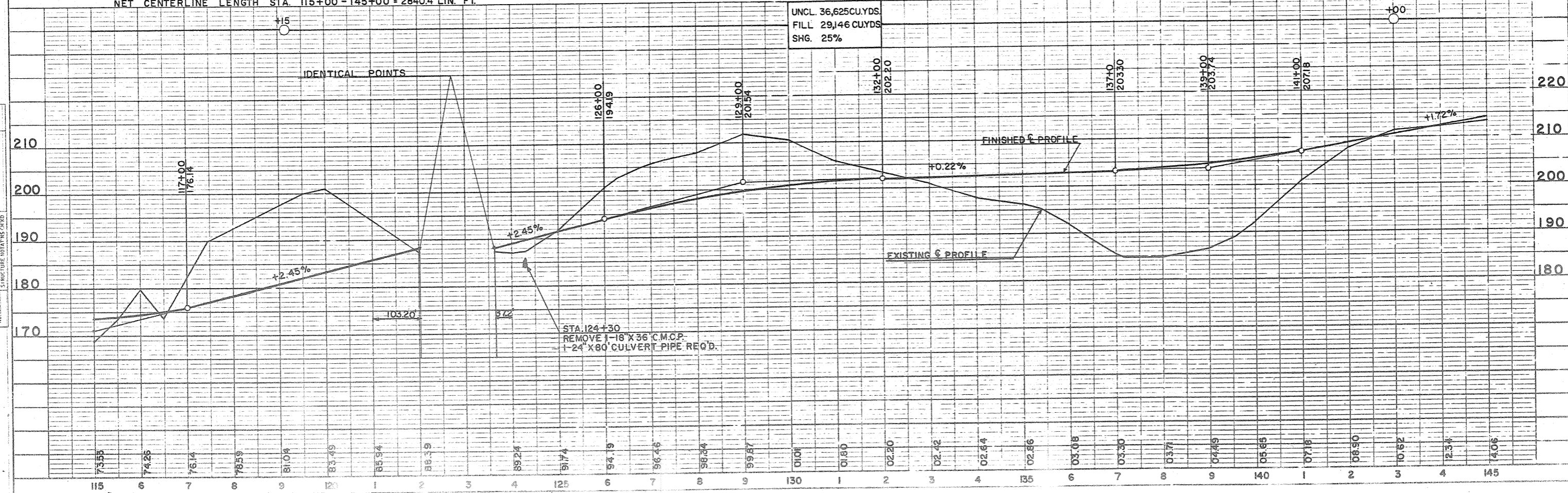
PLAN  
NO. 196  
DATE 12-61  
BY OHM  
CHECKED BY M.M. NOTED BY J.V.  
SURVEYED BY M.M. NOTED BY J.V.  
PROF. BY M.M. NOTED BY J.V.  
NOTE BOOK NO. 196



BENCH MARKS

NO	STA	DESCRIPTION	ELEV.
13A	116+20	SPIKE IN 8" ASPEN	110' RT. 179.20
14	129+45	" " POWER POLE	50 RT. 208.67
15	138+90	" " 8" CHERRY	55 LT. 187.09

NET CENTERLINE LENGTH STA. 115+00 - 145+00 = 2940.4 LIN. FT.



PROFILE  
NO. 196  
DATE 12-61  
BY OHM  
CHECKED BY M.M. NOTED BY J.V.  
SURVEYED BY M.M. NOTED BY J.V.  
PROF. BY M.M. NOTED BY J.V.  
NOTE BOOK NO. 196

DATE: 2-51  
 BY: MEYER  
 CHECKED: WHAT  
 U.I.  
 7-52

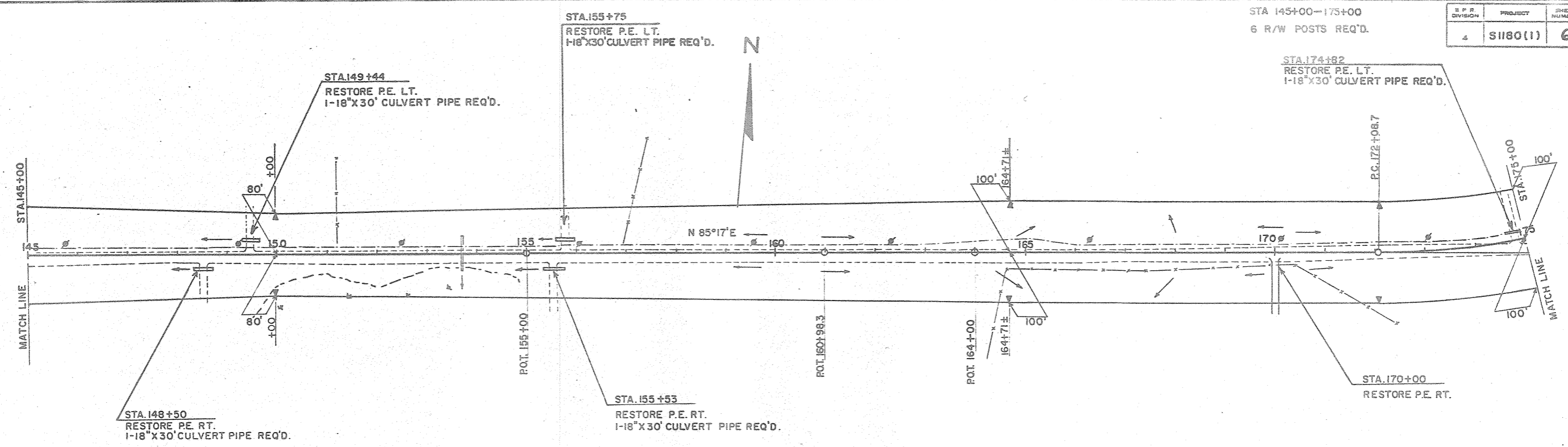
NO. 198

DATE: 2-51  
 BY: MEYER  
 CHECKED: WHAT  
 U.I.  
 7-52

NO. 198

S.P.D. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1180(1)	6	80

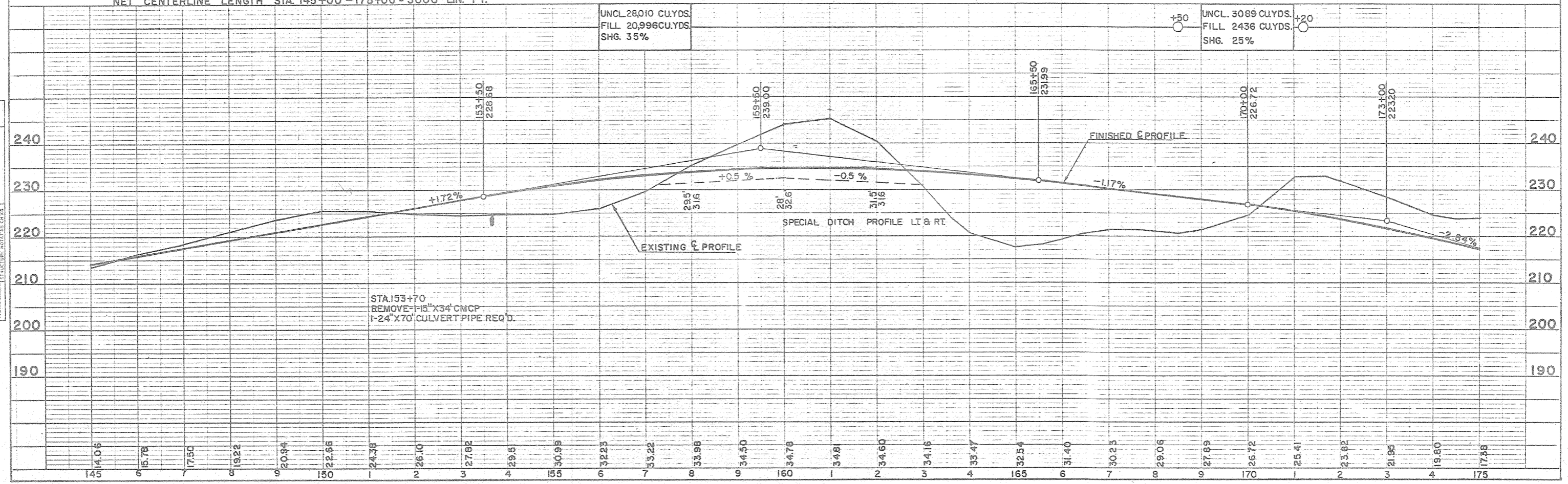
STA 145+00-175+00  
 6 R/W POSTS REQ'D.



BENCH MARKS

NO	STA	DESCRIPTION	ELEV.
16	148+90	SPIKE IN 6" BIRCH 50' RT.	224.73
17	157+40	" " 8" WHITE PINE 70' LT.	234.51
18	169+00	" " 20" WHITE PINE 80' LT.	218.06

NET CENTERLINE LENGTH STA. 145+00 - 175+00 = 3000 LIN. FT.



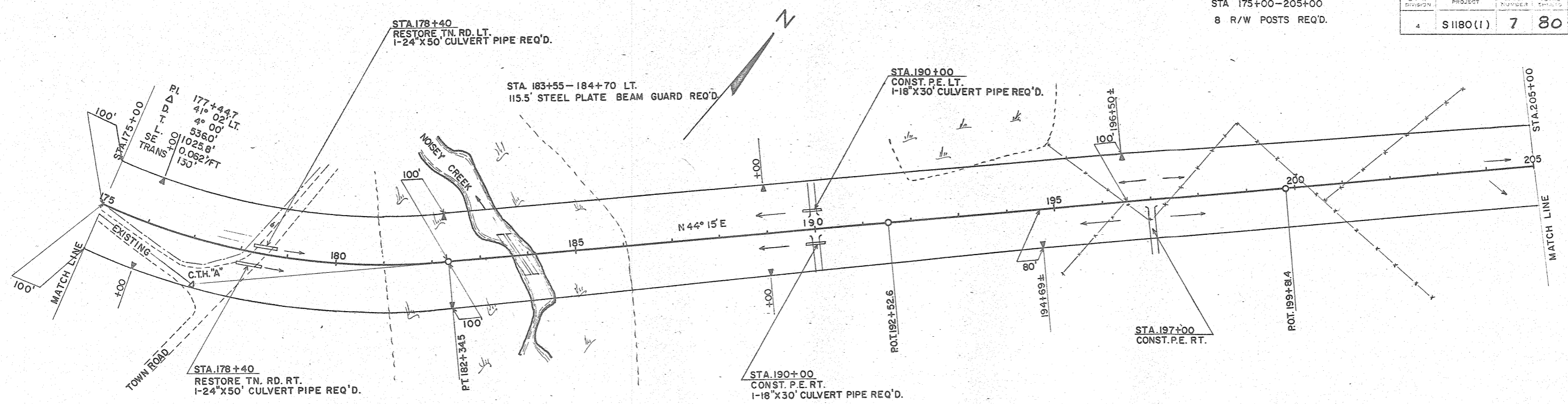
UNCL. 28,010 CU.YDS.  
 FILL 20,996 CU.YDS.  
 SHG. 35%

UNCL. 30,899 CU.YDS.  
 FILL 2436 CU.YDS.  
 SHG. 25%

STA 175+00-205+00  
8 R/W POSTS REQ'D.

B.P.R. DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	SI180(1)	7	80

DATE	BY
61	OHM
12-61	MEYER
12-61	WINAT
7-62	J.J.
REVISIONS	REASON
NO. 196	NO. 196

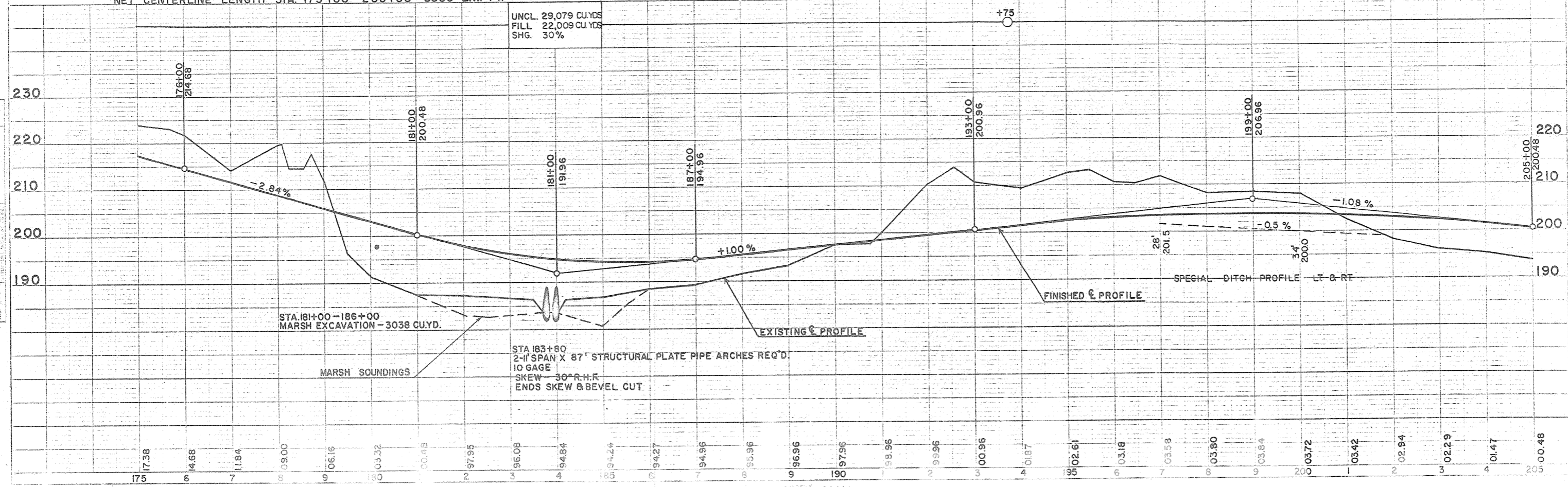


BENCH MARKS

NO	STA	DESCRIPTION	ELEV.
19	179+00	SPIKE IN 10" TWIN ASPEN 150' LT.	193.41
20	188+15	" " 10" ASPEN 65' LT.	192.65
21	196+80	" " 8" WHITE PINE 65' RT.	207.76
22	200+00	" " 12" BALSAM 65' RT.	199.34

NET CENTERLINE LENGTH STA. 175+00-205+00 = 3000 LIN. FT.

UNCL. 29,079 CU.YDS  
FILL 22,009 CU.YDS  
SHG. 30%



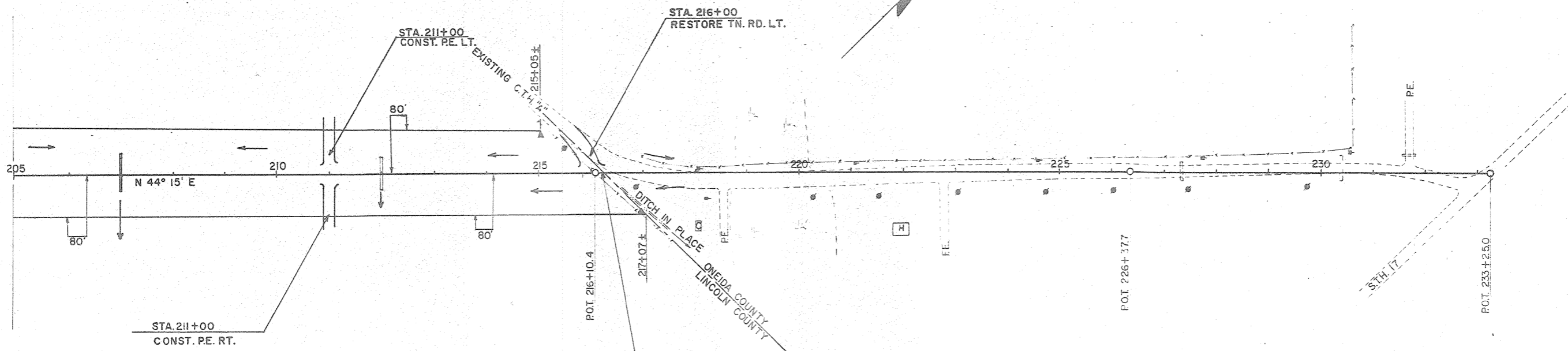
DATE	BY
61	OHM
1-62	F.V.S.
7-62	J.J.
REVISIONS	REASON
NO. 196	NO. 196



STA 205+00-216+22  
2 R/W POSTS REQ'D.

DIVISION	PROJECT	SHEET NUMBER	TOTAL SHEETS
4	S1180(1)	8	80

DATE: 61  
1-62  
7-62  
BY: OHM MEYER  
WJMAT  
SUPERVISOR  
NOTE BOOK ALIGNED CHECKED  
NO. 196



BENCH MARKS

NO	STA	DESCRIPTION	ELEV.
23	214+30	SPIKE IN 24" NORWAY PINE 135' RT	195.68
24	218+85	" " " SPRUCE 55' RT	191.28
25	227+90	" " " ASPEN 53' RT	189.32

NET CENTERLINE LENGTH STA. 205+00-216+22 = 1122 LIN. FT.

UNCL. 18,119 CU.YDS.  
FILL 13,410 CU.YDS.  
SHG. 35%

DATE: 61  
1-62  
7-62  
BY: OHM F.V.S.  
J.J.  
SUPERVISOR  
NOTE BOOK GRADES CHECKED  
NO. 196

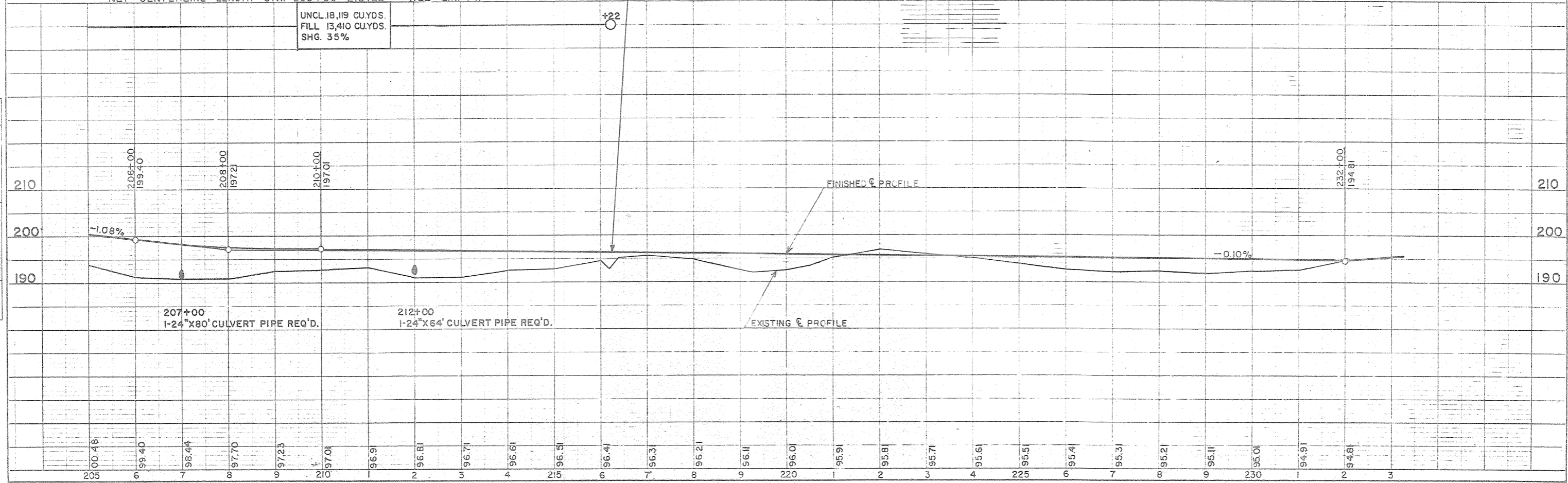


PLATE 1 - PLAN - PROFILE