

INDEX OF SHEETS

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- SHEET NO. 4 RIGHT OF WAY PLAT
- SHEET NO. 5 PLAN AND PROFILE STA -6+00 TO STA 10+00
- SHEET NO. 6-12 DRAINAGE STRUCTURES AND STANDARD DETAILS
- SHEET NO. 13-24 CROSS SECTIONS

FED. ROAD DIST. NO.	STATE	F.A.S. PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	77A(1)	1	24

DIVISION JOB NO. 5079

STATE OF WISCONSIN  
STATE HIGHWAY COMMISSION OF WISCONSIN

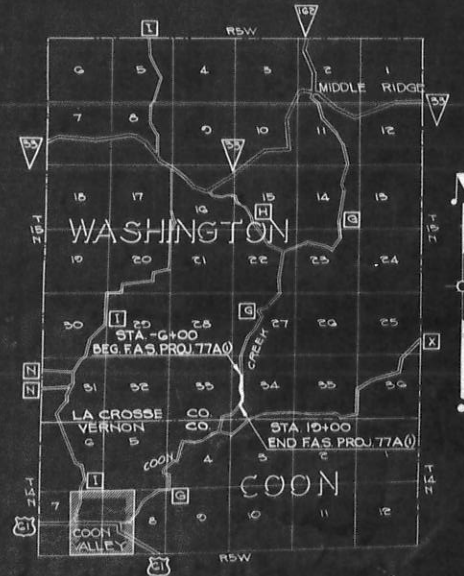
PLAN AND PROFILE OF PROPOSED  
**MIDDLE RIDGE — COON VALLEY ROAD**  
LA CROSSE COUNTY

FEDERAL AID SECONDARY PROJECT F.A.S. 77A(1)

BEGINNING AT A POINT 775 FT. EAST AND 855 FT. NORTH OF THE EAST 1/4 CORNER OF SEC. 34 T.15N. R.5W., THENCE SOUTHERLY TO A POINT 448 FT. WEST OF THE CENTER OF THE S.W. 1/4 OF SEC. 34 T.15N. R.5W.



SCALES  
 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.

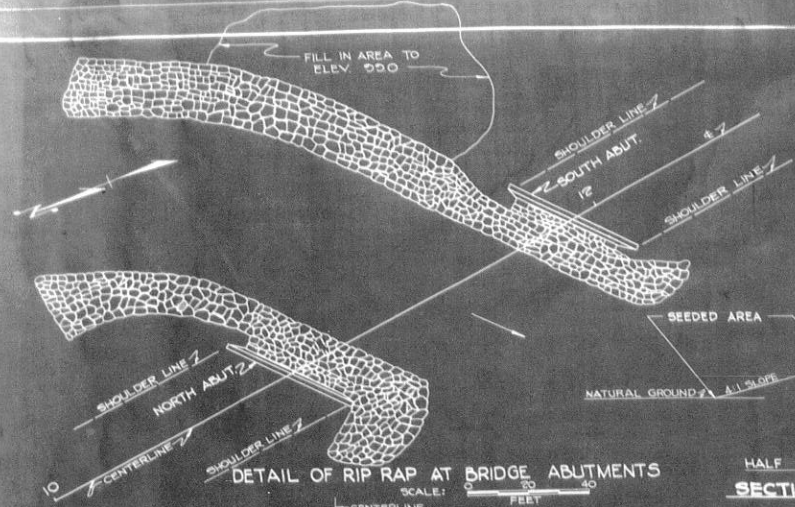


LAYOUT  
SCALE 0 1 2-MILES  
TOTAL NET LENGTH OF CENTERLINE = 0.475 MI.

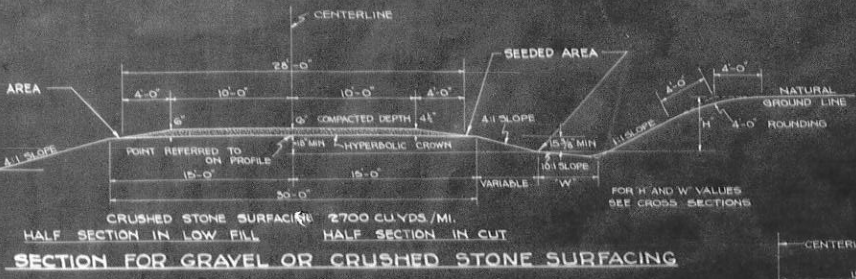
CONVENTIONAL SIGNS

- |                           |          |                               |            |
|---------------------------|----------|-------------------------------|------------|
| 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             | -----    | GROUND ELEVATION              | DATUM LINE |
| TRAVELED WAY OR P.E.      | -----    | GRADE ELEVATION               | DATUM LINE |
| RAILROADS                 | -----    |                               |            |
| BASE OR SURVEY LINE       | -----    |                               |            |

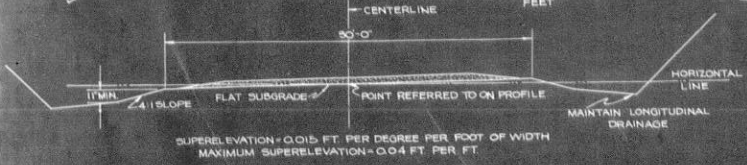
STATE HIGHWAY COMMISSION OF WISCONSIN MADISON, WIS.		U.S. DEPARTMENT OF AGRICULTURE BUREAU OF PUBLIC ROADS	
Surveyor	ERH	Dist. No.	1602-7053
Div. Computer	J.R.A.	Checked	W.F.M.
Div. Checker	A.M.S. VAS.	Checked	1-2-39
CONTRACT		RECOMMENDED FOR APPROVAL	
DATE	3/6 1939	DESIGN ENGINEER	T.M. Reynolds
RECOMMENDED FOR APPROVAL	3/10 39	APPROVED	
DESIGN ENGINEER		DATE	3/11 39
APPROVED		ASST. DIV. ENGINEER	
		CHECKED IN FIELD BY	R.C. [Signature]
			F.A.S. 77A(1)



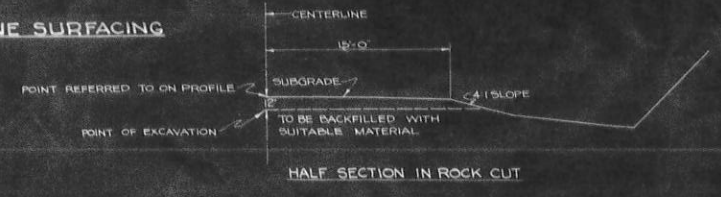
DETAIL OF RIP RAP AT BRIDGE ABUTMENTS



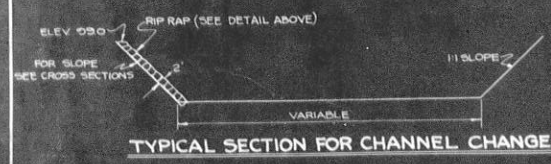
SECTION FOR GRAVEL OR CRUSHED STONE SURFACING



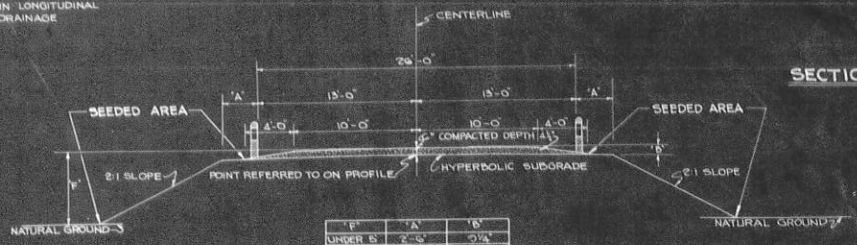
TYPICAL SECTION ON CURVES



SECTION FOR ROCK EXCAVATION

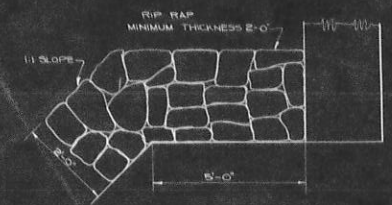


TYPICAL SECTION FOR CHANNEL CHANGE

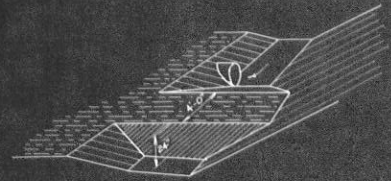


GUARD FENCE SECTION FOR GRAVEL OR CRUSHED STONE SURFACING

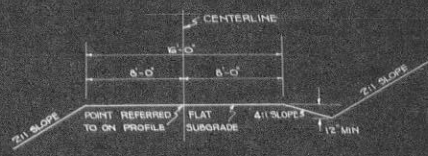
'F'	'A'	'B'
UNDER 5'	2'-6"	0 1/2"
5' TO 10'	3'-6"	0 1/2"
OVER 10'	4'-6"	0 3/4"



DETAIL OF RIP RAP AT BRIDGE B-50



PERSPECTIVE SKETCH OF EARTH DAM



TYPICAL SECTION FOR PRIVATE ENTRANCE

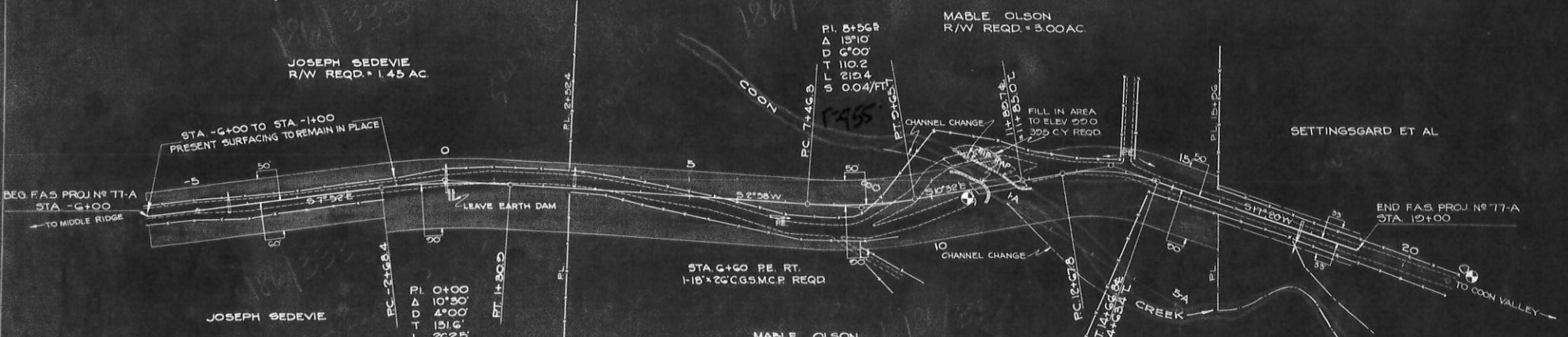
APPROVED APPLICABLE DETAIL DRAWINGS ARE:  
 3 WIRE CABLE GUARD FENCE.....SD-15.2  
 MARKER POSTS.....SD-12.3  
 BARRICADE.....SD-16.1

TYPICAL CROSS SECTION FOR  
 26' ROADBED





10-300



r=1432.5

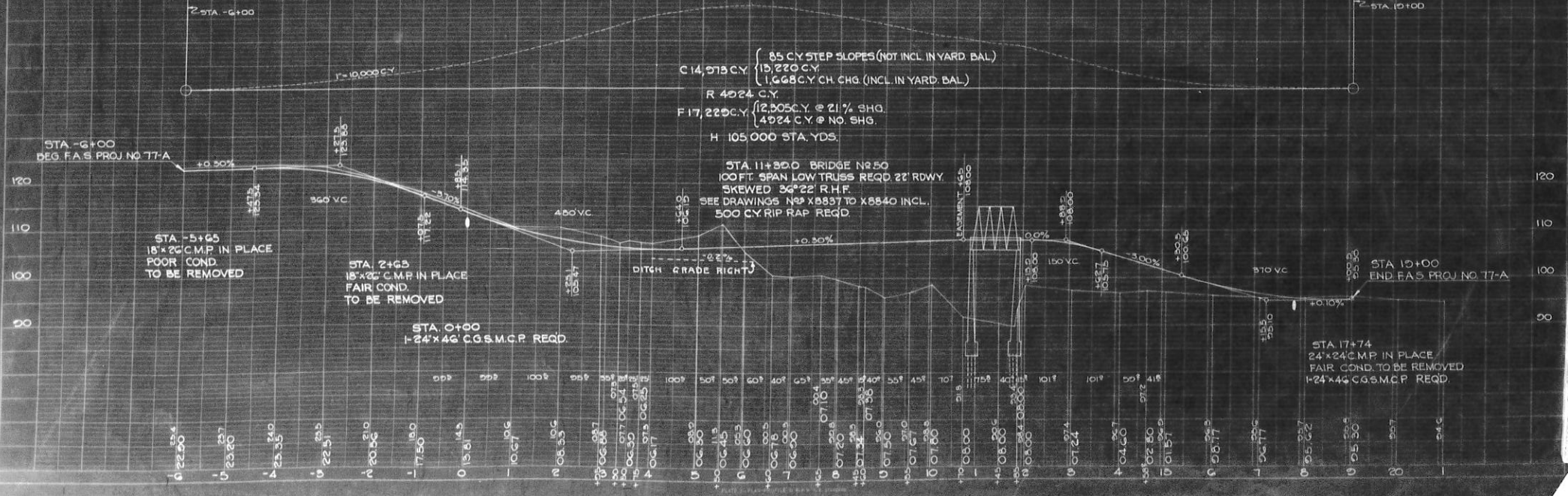
PI. 13+69.3  
Δ 27°52'  
D 14°00'  
T 101.8'  
L 139.0'  
S 0.04/FT.

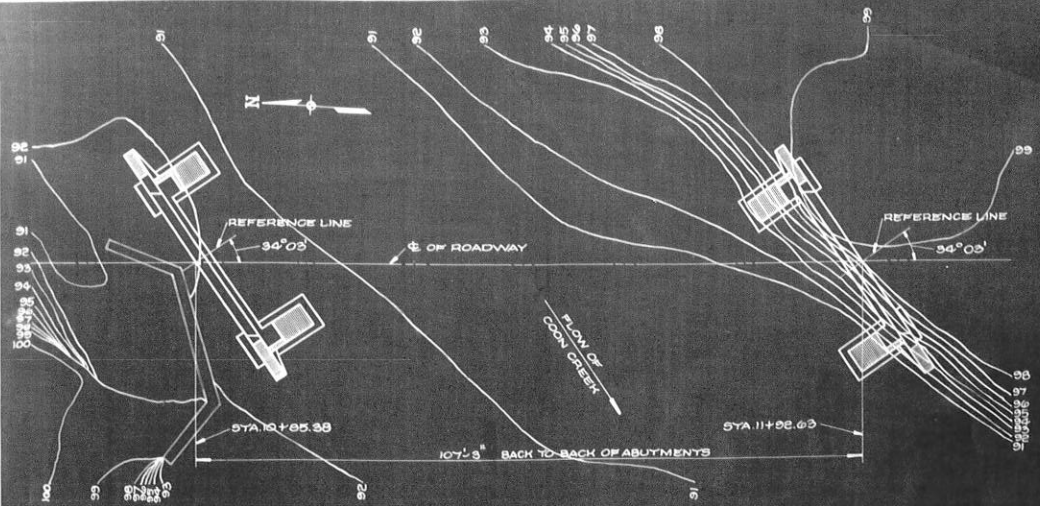
r=401.3

**BENCH MARKS**

NO.	STATION	DESCRIPTION	EL.
		SPK. IN GUARD POST	124.26
	10+10	BR. SEAT OF OLD ABUT. LT.	100.82
	21+15	SPK. IN 14' ELM.	94.16

NET LENGTH OF CENTERLINE, STA. -6+00 TO STA. 19+00 = 2508.1 LIN. FT.

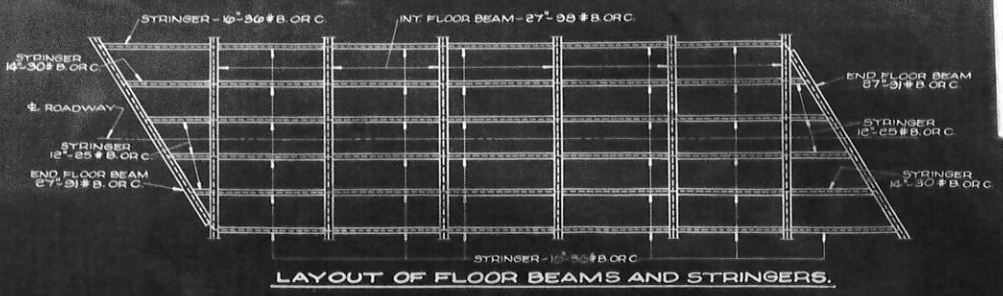




**LAYOUT.**

**LIST OF DRAWINGS.**

- |                             |       |
|-----------------------------|-------|
| 1 - LAYOUT & DETAILS        | X8837 |
| 2 - TRUSS & BEARING DETAILS | X8838 |
| 3 - RAILING & DRAIN DETAILS | X8839 |
| 4 - ABUTMENT DETAILS        | X8840 |



**LAYOUT OF FLOOR BEAMS AND STRINGERS.**

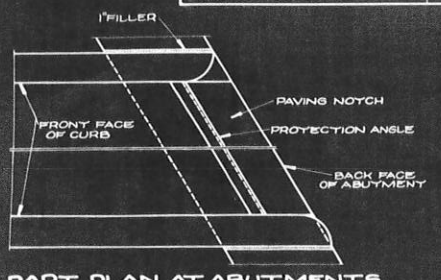
**STRINGER CONNECTIONS.**

STRINGER	ONE COMPLETE CONNECTION AT END FLOOR BEAM			ONE COMPLETE CONNECTION AT INT. FLOOR BEAM	
	BENT PLATES	TOTAL NUMBER OF RIVETS REQUIRED THRU STRINGER	THRU FLOOR BEAM	ANGLES	TOTAL NUMBER OF RIVETS REQUIRED THRU STRINGER THRU FLOOR BEAM
14'-25" #8 O.R.C.	2 PLS - 12" x 3/8"	4 FIELD	3 SHOP & 3 SHOP	2B - 6" x 3 1/2" x 3/8"	4 SHOP 6 FIELD
14'-30" #8 O.R.C.	2 PLS - 12" x 3/8"	4 FIELD	3 FIELD & 3 SHOP	2B - 6" x 3 1/2" x 3/8"	4 SHOP 6 FIELD
14'-30" #8 O.R.C.	2 PLS - 12" x 3/8"	4 FIELD	4 FIELD & 4 SHOP	2B - 3 1/2" x 3 1/2" x 3/8"	4 SHOP 8 FIELD

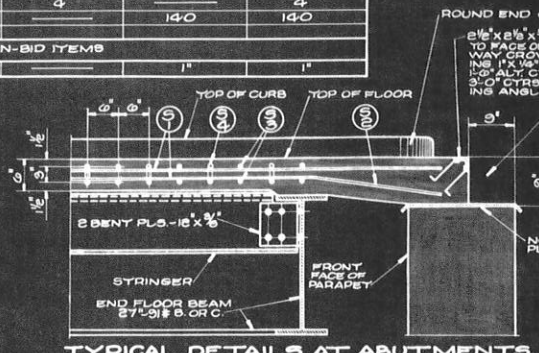
NOTE 1 - THE 6" LEGS OF THE 6" x 3 1/2" x 3/8" CONNECTION ANGLES SHALL BE PLACED ALONG WEB OF STRINGERS

**TOTAL ESTIMATED QUANTITIES.**

ITEM	UNIT	SUPERSTRUCTURE	ABUTMENTS	TOTAL
BID ITEMS				
EXCAVATION FOR STRUCTURES	C.Y.		210	210
CONCRETE MASONRY	C.Y.	48.0	151.8	199.8
BAR STEEL REINFORCEMENT	LB.	11,410	6,320	17,730
STRUCTURAL STEEL	LB.	110,120		110,120
CAST STEEL	LB.	1,400		1,400
STEEL FORGINGS	LB.	220		220
SHEET LEAD	LB.	463		463
ZINC PLATES	LB.	98		98
STEEL PILING DELIVERED	LB.		19,840	19,840
STEEL PILING DRIVEN	L.F.		640	640
FLOOR DRAINS	NO.	4		4
RIPRAP	C.Y.		140	140
NON-BID ITEMS				
EXPANSION JOINT FILLER	SIZE		1"	1"

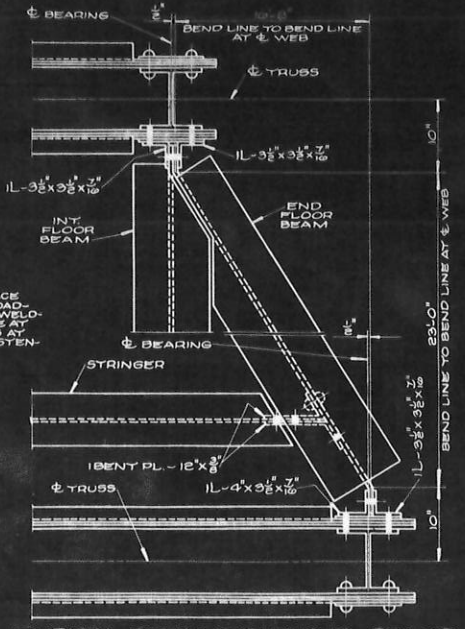


**PART PLAN AT ABUTMENTS.**



**TYPICAL DETAILS AT ABUTMENTS.**

TAKEN PARALLEL TO ROADWAY



**TYPICAL DETAILS AT END FL. BEAMS.**

**GENERAL NOTES.**

ALL CONCRETE MASONRY SHALL BE GRADE "A".  
 BEVEL ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE SPECIFIED.  
 BAR STEEL REINFORCEMENT DIMENSIONS APPLY ALONG  $\phi$  OF BAR.  
 THE BERM SLOPES AT ABUTMENTS SHALL BE RIPRAPPED WITH RIPRAP 2' THICK FROM FACE OF CROSS GIRDER TO STREAM BED. (SEE X8840).  
 STRUCTURAL STEEL QUANTITIES ARE BASED ON THE SECTIONS AS CALLED FOR OR SHOWN ON THE DRAWINGS. IF EQUIVALENT SECTIONS OF GREATER WEIGHT THAN THOSE SPECIFIED ON THE DRAWINGS ARE USED, THE CONTRACTOR MUST BEAR THE COST OF THE ADDITIONAL WEIGHT.  
 STEEL PILING SHALL BE DRIVEN TO REFUSAL OR THE FULL LENGTH CALLED FOR.  
 TOP AND SLOPE OF BERM AT ABUTMENTS SHALL BE RIPRAPPED AS SHOWN ON X8840 WITHIN THE LIMITS OF THE ENDS OF THE WINGS.

1 OF 4 STRUCTURE JOB NO. 5265

STATE HIGHWAY COMMISSION OF WISCONSIN  
 FOR  
**BRIDGE NO. 50**  
 STA. 11+38.00  
 TOWN OF WASHINGTON - LA CROSSE CO.

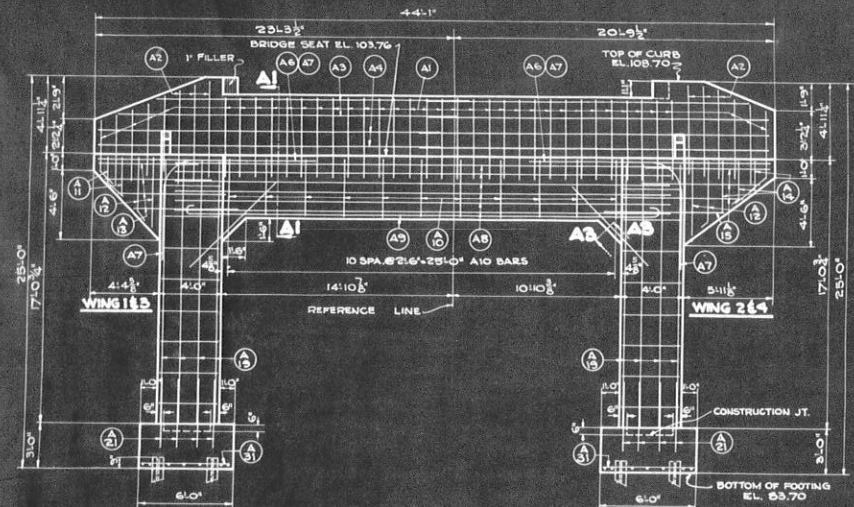
CORRECTED: *H. K. Smith*  
 BRIDGE ENGINEER

APPROVED: *H. K. Smith*  
 STATE HIGHWAY ENGINEER

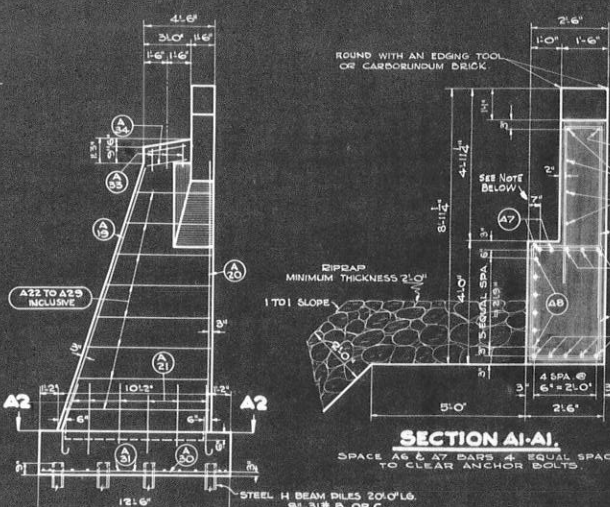




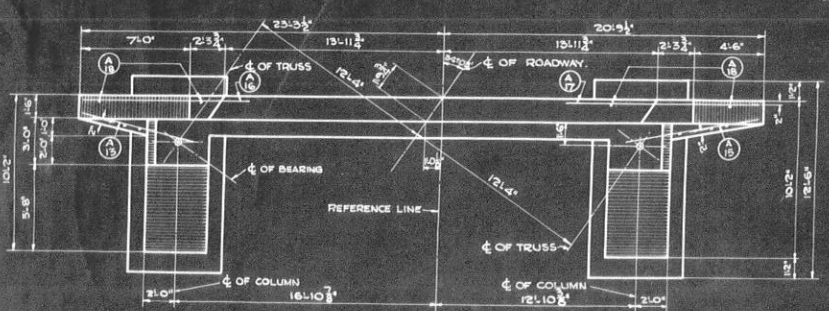




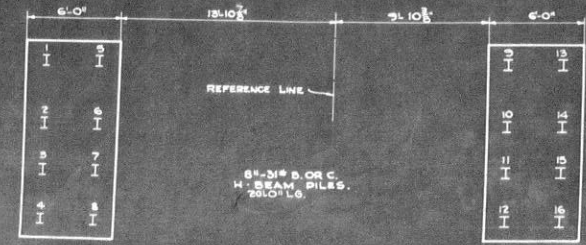
**ELEVATION.**  
SHOWING FRONT FACE REINFORCEMENT.



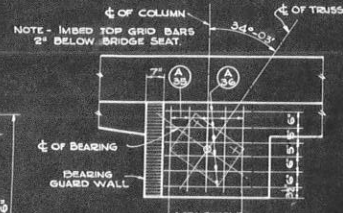
**END VIEW.**



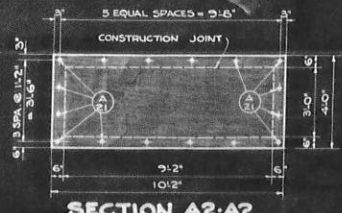
**PLAN.**



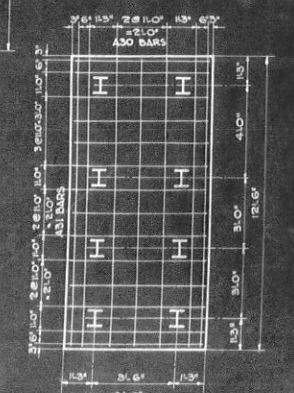
**PILE DIAGRAM.**



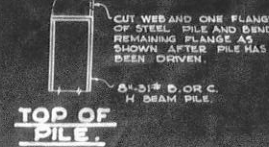
**GRID DETAILS.**



**SECTION A2-A2.**



**FOOTING PLAN.**



**TOP OF PILE.**

**SECTION THRU BEARING GUARD WALL.**



**SECTION A3-A3.**

**BILL OF BARS.**

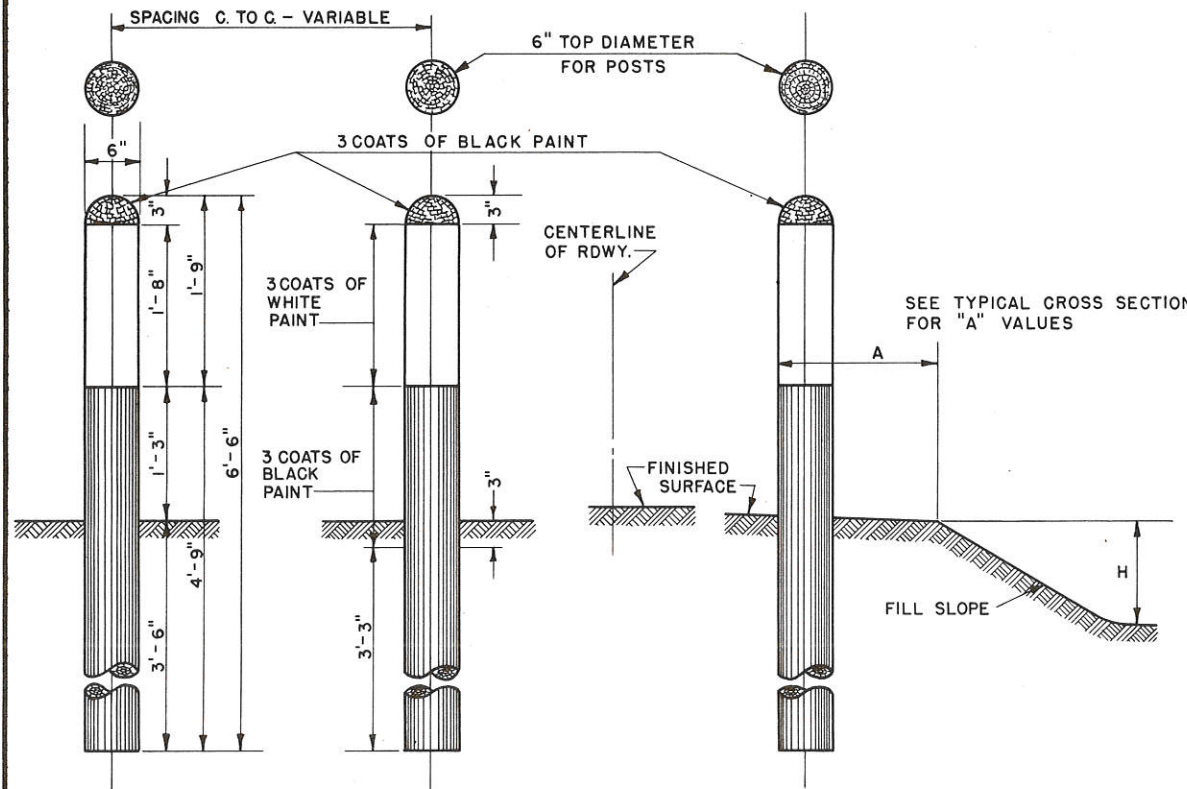
NO	MARK	SIZE	LENGTH	SPECINGS	LOCATION	TYPE
76	A1	1/2"	121.6'	10'CTS	VERT. IN PARAPET & WINGS.	A
12	A2	1/2"	141.6'	"	" " " " " " " "	A
8	A3	1/2"	221.0'	"	HOR. " " " " " " " "	A
8	A4	1/2"	231.0'	"	" " " " " " " "	A
4	A5	1/2"	22.0'	SHOWN	IN TOP OF PARAPET, BACK FACE	B
12	A6	1/2"	121.6'	"	LONG. IN TOP OF CROSS GIRDER & WING.	B
8	A7	1/2"	181.0'	"	" " " " " " " "	B
12	A8	1/2"	291.0'	"	LONG. IN F. FACE OF CROSS GIRDER	B
10	A9	1/2"	331.0'	"	LONG. IN BOTTOM OF CROSS GIRDER.	C
22	A10	1/2"	131.0'	"	STIRRUPS IN CROSS GIRDER.	B
4	A11	1/2"	21.6'	1.0'CTS	VEST. IN WINGS 1E3 FRONT FACE	D
8	A12	1/2"	41.6'	"	" " " " " " " "	D
6	A13	1/2"	71.0'	"	HOR. " " " " " " " "	D
6	A14	1/2"	31.0'	"	VERT. IN WINGS 2E4 FRONT FACE	D
8	A15	1/2"	81.0'	"	HOR. " " " " " " " "	D
8	A16	1/2"	91.0'	"	HOR. IN WINGS 1E3 BACK FACE	D
8	A17	1/2"	111.0'	"	" " " " " " " "	D
8	A18	1/2"	81.6'	SHOWN	TIE BARS FOR A16 & A17	D
16	A19	1/2"	171.9'	"	VERT. IN COLUMNS FRONT FACE	D
16	A20	1/2"	161.9'	"	" " " " " " " "	D
64	A21	1/2"	51.9'	"	DOWELS INTO FOOTING.	E
4	A22	1/2"	171.6'	2.0'CTS	ROOFS IN COLUMNS.	D
4	A23	1/2"	181.9'	"	" " " " " " " "	D
4	A24	1/2"	201.0'	"	" " " " " " " "	D
4	A25	1/2"	21.6'	"	" " " " " " " "	D
4	A26	1/2"	221.9'	"	" " " " " " " "	D
4	A27	1/2"	241.0'	"	" " " " " " " "	D
4	A28	1/2"	251.6'	"	" " " " " " " "	D
4	A29	1/2"	261.9'	"	" " " " " " " "	D
28	A30	1/2"	121.3'	SHOWN	LONG. IN FOOTING	D
56	A31	1/2"	51.9'	"	TRANS " " " " " " " "	D
16	A32	1/2"	71.0'	"	IN CROSS GIRDER FILLLET	D
24	A33	1/2"	21.0'	"	VERT. IN BEARING GUARD WALL.	D
16	A34	1/2"	21.6'	"	HOR. " " " " " " " "	D
20	A35	1/2"	31.9'	"	LONG. IN GRIDS	G
24	A36	1/2"	21.9'	"	TRANS " " " " " " " "	G

**BAR DETAILS.**

TYPE	A	B	C	D	E
TYPE 'A'	1.2"	1.2"	1.2"	1.2"	1.2"
TYPE 'B'	1.2"	1.2"	1.2"	1.2"	1.2"
TYPE 'C'	1.2"	1.2"	1.2"	1.2"	1.2"
TYPE 'D'	1.2"	1.2"	1.2"	1.2"	1.2"
TYPE 'E'	1.2"	1.2"	1.2"	1.2"	1.2"

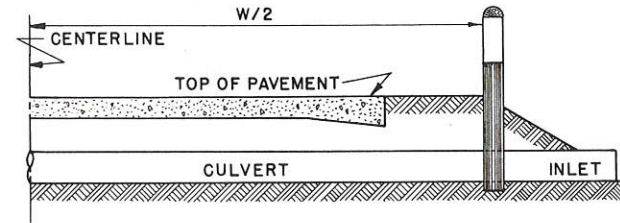
STATE HIGHWAY COMMISSION OF WISCONSIN  
**ABUTMENT DETAILS**  
 FOR  
**BRIDGE NO. 50**  
 STA. 11+35.00  
 TOWN OF WASHINGTON - LA CROSSE CO. WIS.

DATE: 10/15/58  
 DRAWN BY: J. A. S.  
 CHECKED BY: R. H. B.  
 ENGINEER: R. H. B.

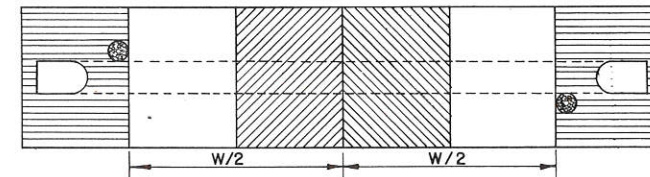


ELEVATION SHOWING SPACING

ELEVATION SHOWING LOCATION ON ROAD SHOULDER



SECTION WITH CULVERT MARKER



PLAN SKETCH

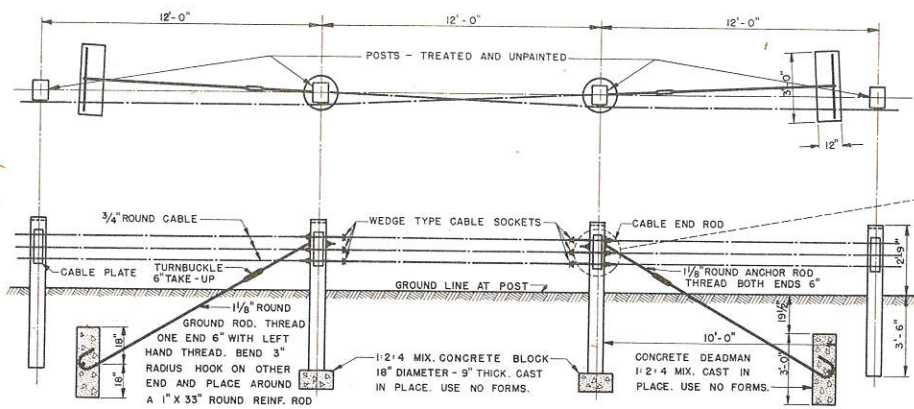
SPACING OF MARKER POSTS FOR VARYING LENGTHS OF SHOULDER TO BE PROTECTED.

100 FT. TO 500 FT. .... 50 FT.  
 500 FT. OR MORE ..... 100 FT.  
 SEE MISCELLANEOUS QUANTITY SHEET OF PLANS.

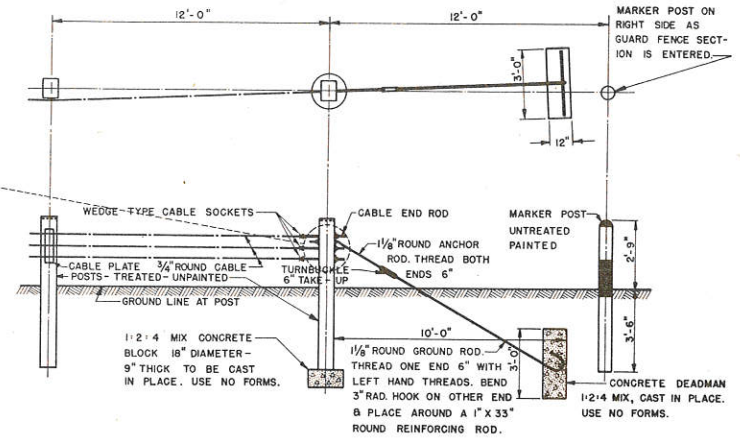
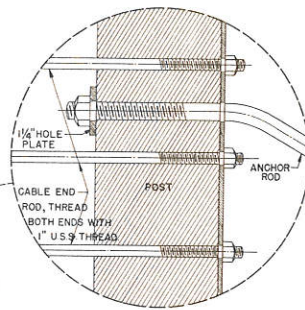
GENERAL NOTES

- TOP OF POST SHALL BE NEATLY ROUNDED.
- POSTS TO BE CUT AND MANUFACTURED FROM LIVE, GREEN, GROWING NORTHERN WHITE CEDAR, YELLOW PINE, NORWAY PINE, JACK PINE, OR WHITE PINE, STACKED & SEASONED IN AN APPROVED MANNER.
- PAINT AND APPLICATION SHALL CONFORM TO PERTINENT SPECIFICATIONS.
- PORTION OF POST TO BE PAINTED SHALL BE SHAVED TO THE WHITE BEFORE PAINTING.
- DETAILS OF CONSTRUCTION NOT COVERED ON THIS SHEET SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- MARKER POST AS CULVERT MARKER TO BE PLACED AT BOTH ENDS OF CULVERT ON NEAR SIDE OF CULVERT.
- MARKER POSTS FOR RIGHT OF WAY MARKERS SHALL BE PLACED WHERE DIRECTED BY THE ENGINEER.

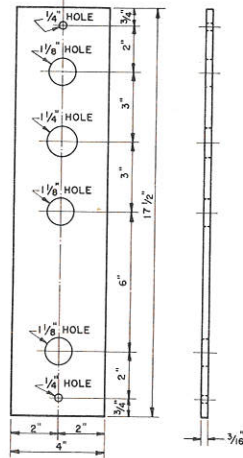
<u>MARKER POSTS</u>	
STATE HIGHWAY COMMISSION OF WISC.	
RECOMMENDED FOR APPROVAL:	
<i>Frank Crum</i> DESIGN ENGINEER	
3/1/39 DATE	<i>W. Bluh</i> CONSTRUCTION ENGINEER
APPROVED:..	
DRAWN C.A.L.	3/1/39 <i>E. L. Reagin</i> DATE STATE HIGHWAY ENGINEER
CHECKED D.F.C.	



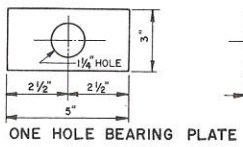
INTERMEDIATE ANCHOR



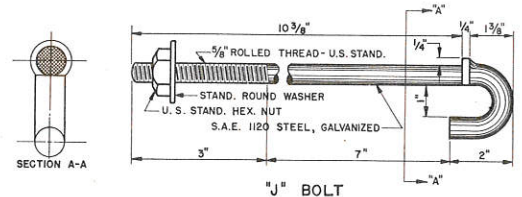
END ANCHOR



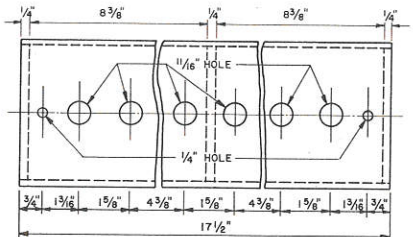
BEARING PLATE



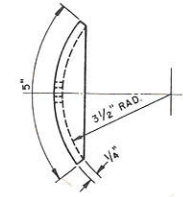
ONE HOLE BEARING PLATE



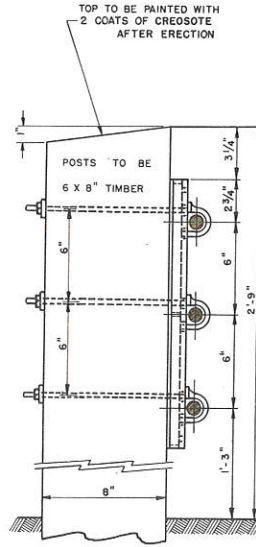
"J" BOLT



CABLE



PLATE



SIDE ELEVATION

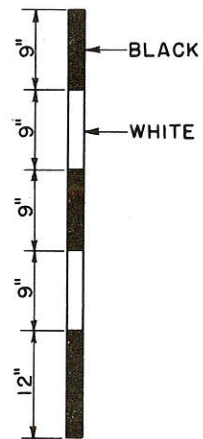
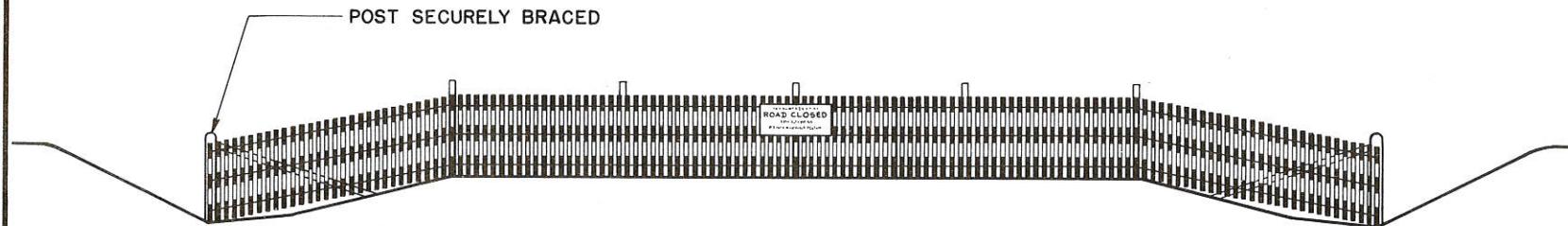
GENERAL CONSTRUCTION NOTES

DETAILS OF CONSTRUCTION NOT COVERED ON THIS SHEET SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FOUR DETAILED DRAWINGS OF SOCKETS, TURNBUCKLES AND PLATES MUST BE SUBMITTED TO THE STATE HIGHWAY COMMISSION FOR APPROVAL BEFORE THEIR USE WILL BE PERMITTED. ALL PLATES TO BE MALLEABLE IRON CASTINGS. ALL FITTINGS TO BE GALVANIZED, AND BREAKAGE OF GALVANIZING DURING ERECTION WILL BE CAUSE FOR REJECTION AND MUST BE REPLACED. AFTER ERECTION, ALL CABLE END BOLTS AND "J" BOLTS PROJECTING MORE THAN ONE INCH FROM NUT SHALL BE CUT OFF ONE HALF INCH FROM NUT AND CHECKED. VARIATIONS FROM THESE DESIGNS OF FITTINGS WILL BE CONSIDERED UPON SUBMISSION OF FOUR COPIES OF DETAILED PLANS FOR APPROVAL. IN GENERAL, NO CONTINUOUS SECTION OF CABLE SHALL EXCEED 750 FEET WITHOUT INTERMEDIATE ANCHORAGE. SEE TYPICAL SECTION SHEET FOR LOCATION OF RAIL IN REFERENCE TO SHOULDER.

STANDARD DESIGN FOR	
<b>3 WIRE CABLE GUARD FENCE</b>	
STATE HIGHWAY COMMISSION OF WISCONSIN	
RECOMMENDED FOR APPROVAL:	
<i>Frank Crane</i> DESIGN ENGINEER	<i>W. B. ...</i> CONSTRUCTION ENGINEER
APPROVED	DATE 4/31/1939
CHECKED BY N.E.C.	<i>E.C. ...</i> STATE HIGHWAY ENGINEER

SECTION OF SNOW FENCE TO BE PAINTED ALTERNATELY BLACK AND WHITE AS SHOWN BELOW.  
 LENGTH TO BE SUFFICIENT TO REACH FROM TOE OF THE BACKSLOPE TO TOE OF THE BACKSLOPE.  
 PROVIDE SUFFICIENT NUMBER OF INTERMEDIATE POSTS TO ADEQUATELY SUPPORT THE FENCE.

STANDARD "ROAD CLOSED" SIGN (W.H.C. - NO. R-6) TO BE ERECTED ON FENCE AT THE TOP ON  
 THE CENTERLINE OF ROAD.



DETAIL SHOWING METHOD OF STRIPING  
 FOR 4' SNOW FENCE.

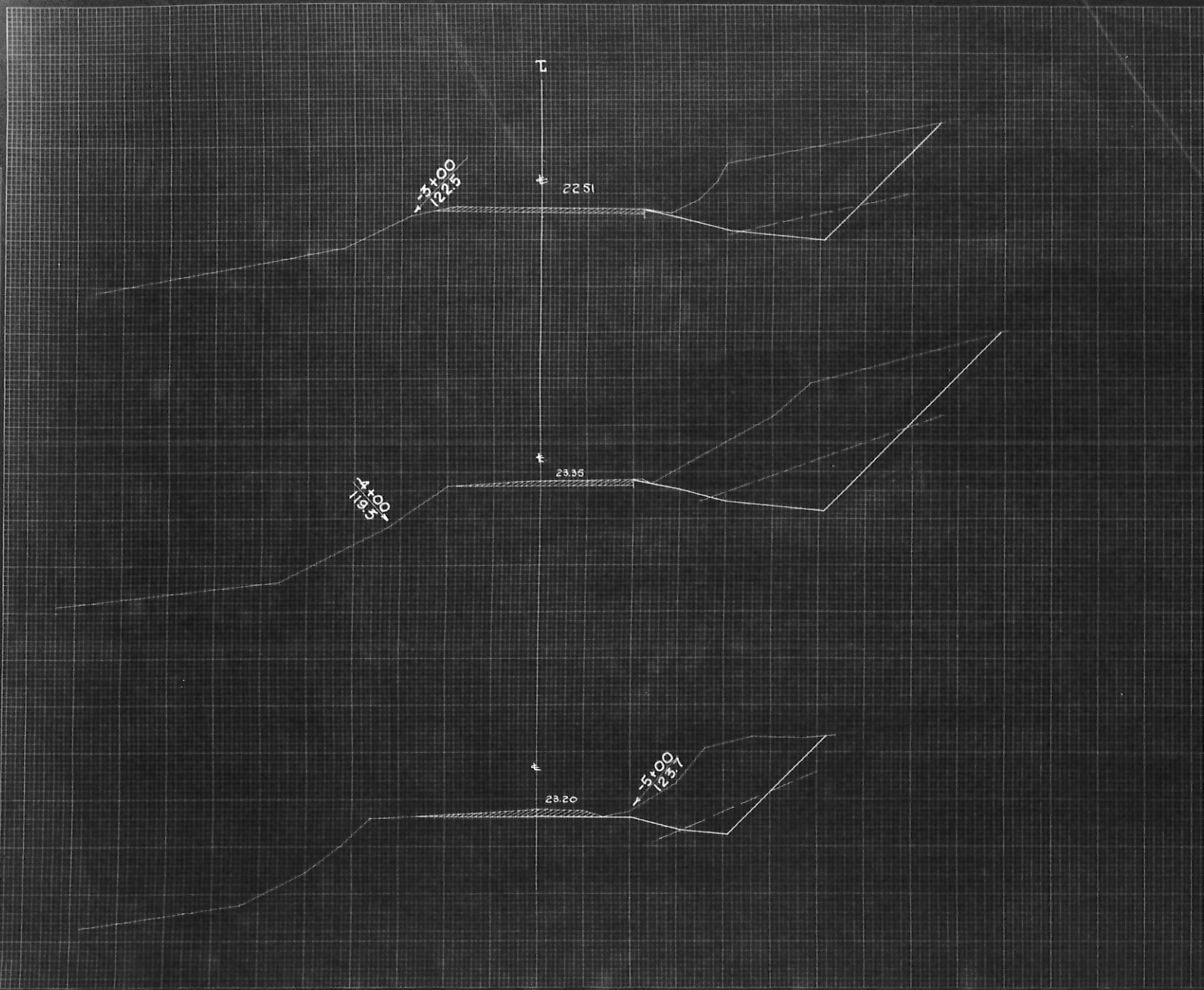
STATE HIGHWAY COMMISSION	
ROAD UNDER CONSTRUCTION	
F.A.P. NO.	
CONTRACTORS	
BRIDGE	MILES
GRADING	MILES
PAVING	MILES
COUNTY	

THIS SIGN TO BE PLACED  
 AT BEGINNING OF DETOUR

STATE HIGHWAY COMMISSION OF WISCONSIN	
<b>CONSTRUCTION BARRICADE</b>	
RECOMMENDED FOR APPROVAL:	
<i>Frank Chase</i> DESIGN ENGINEER	
<i>[Signature]</i> CONSTRUCTION ENGINEER	
APPROVED:	
DRAWN: HM	3/28/38
CHECKED: WHG	DATE: <i>E. G. Rettig</i> STATE HIGHWAY ENGINEER

FINAL SURVEY SHEET NO. 13  
 DRAWN BY: J. R. H. J. R. H. J. R. H.  
 CHECKED BY: J. R. H. J. R. H. J. R. H.  
 DATE: 10/15/55

GENERAL SURVEY SHEET NO. 13  
 DRAWN BY: J. R. H. J. R. H. J. R. H.  
 CHECKED BY: J. R. H. J. R. H. J. R. H.  
 DATE: 10/15/55

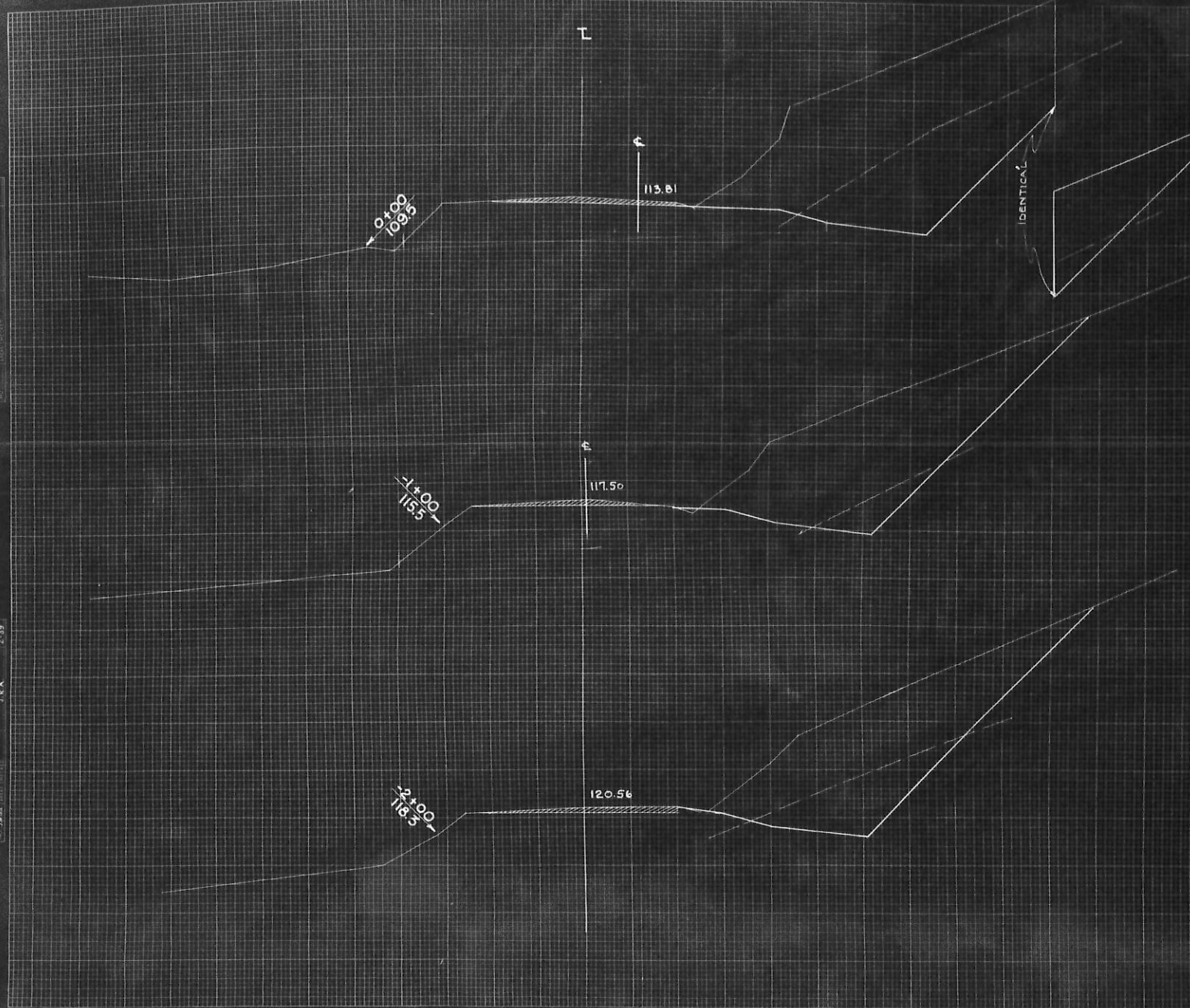


FED. ROAD DIST. NO. 4 STATE WISC PROJ. NO. 77-A(1) SHEET NO. 13 TOTAL SHEETS 24  
 DIVISION JOB NO. 5676

CY STEP SLOPES	STATION	END AREA			DISTANCE	YARDAGE			TOTAL FILL
		EXCAVATION		FILL		EXCAVATION		TOTAL	
		COMMON	ROCK			COMMON	ROCK		
	6+00	0			100	194	28	222	0
	5+00	105	15	0	1000	583	143	726	0
	4+00	210	62	0	1000	681	152	833	0
	3+00	158	20	0	1000				
SUB TOTAL - MILE									
SHEET TOTAL						14.58	323	1781	0

FINAL SURVEY  
 DATE: 10/15/14  
 BY: J.A.B.

ORIGINAL SURVEY  
 DATE: 10/15/14  
 BY: J.A.B.



FED. ROAD DIST. NO. 4 STATE WISCONSIN DIST. NO. 177A JOB NO. 14 24 DIVISION JOB NO. 5676

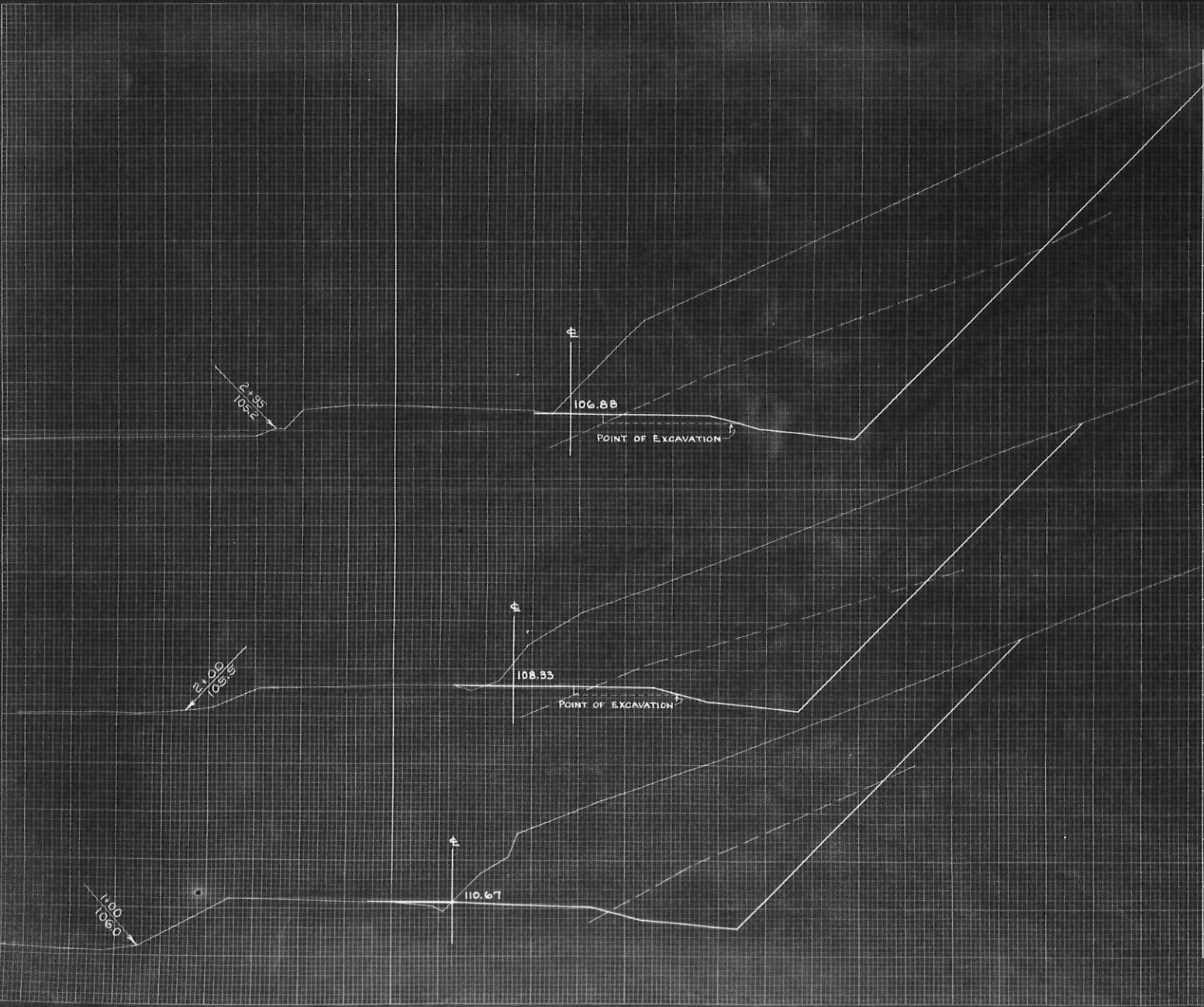
CY STER SLOPES	STATION	END AREA			DISTANCE	YARDAGE			TOTAL FILL
		EXCAVATION		FILL		EXCAVATION		TOTAL	
		COMMON	ROCK			COMMON	ROCK		
	3+00	158	20	0					
	2+00	221	81	0	1000	702	187	889	0
	1+00	288	26	0	1000	943	198	1141	0
	0+00	402	184	0	995	1270	387	1657	0

SUB TOTAL - MILE \_\_\_\_\_  
 SHEET TOTAL 2915 772 3687 0

DIVISION JOB NO. 5676

FINAL SURVEY  
SOURCE: FIELD DATA  
DATE: 10/15/52

ORIGINAL SURVEY  
PROJECT: F.R.A. 3  
DATE: 10/15/52



C.Y. STEP SLOPES	STATION	END AREA			DISTANCE	YARDAGE			
		EXCAVATION		FILL		EXCAVATION			TOTAL FILL
		COMMON	ROCK			COMMON	ROCK	TOTAL	
	0+00	402	184	0					
	1+00	470	135	2	995	1605	589	2194	2
	2+00	464	180	10	1005	1737	587	2324	22
	2+95	608	290	12	955	1897	831	2728	39

SUB TOTAL - MILE

SHEET TOTAL

5239 2007 7246 63