

INDEX OF SHEETS		
SHEET NO.	TITLE	
" 2	TYPICAL CROSS SECTION OF IMPROVEMENT & ESTIMATE	
" 3	RIGHT OF WAY	
" 4	PLAN AND PROFILE STA. 128 TO STA. 158	
" 5	" " " 158 " " 188	
" 6	" " " 188 " " 218	
" 7	" " " 218 " " 248	
" 8	" " " 248 " " 278	
" 9	" " " 278 " " 308	
" 10	" " " 308 " " 323+00	
" 11-14	STD. DETAILS & DRAINAGE STRUCTURES.	
" 15-31	CROSS SECTIONS	

STATE	DIVISION	SHEET	TOTAL
JOB NO.	NO.	NO.	SHEETS
WISC.	9280	1	31

STATE OF WISCONSIN

WISCONSIN HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED

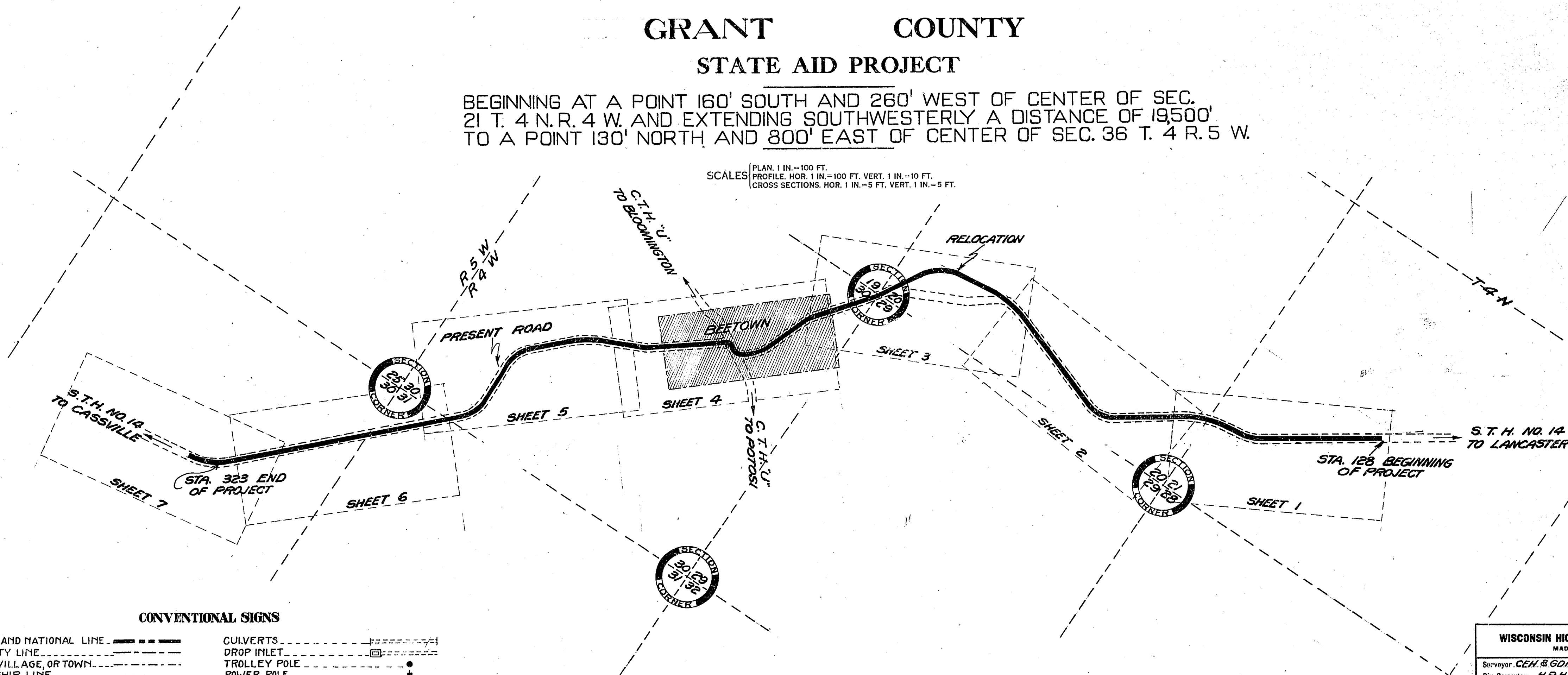
LANCASTER – CASSVILLE ROAD

GRANT COUNTY

STATE AID PROJECT

BEGINNING AT A POINT 160' SOUTH AND 260' WEST OF CENTER OF SEC. 21 T. 4 N. R. 4 W. AND EXTENDING SOUTHWESTERLY A DISTANCE OF 19,500' TO A POINT 130' NORTH AND 800' EAST OF CENTER OF SEC. 36 T. 4 R. 5 W.

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.



CONVENTIONAL SIGNS

STATE AND NATIONAL LINE
 COUNTY LINE
 CITY, VILLAGE, OR TOWN
 TOWNSHIP LINE
 SECTION LINE
 FENCE LINE
 GUARD RAIL
 UNFENCED PROPERTY
 RIGHT OF WAY LINE
 TRAVELED WAY
 RAILROADS
 RETAINING WALL
 LEVEE
 BASE OR SURVEY LINE

CULVERTS
 DROP INLET
 TROLLEY POLE
 POWER POLE
 TELEPHONE OR TELEGRAPH POLES
 MAIL BOX
 REFERENCE STAKES
 MARSH
 HEDGE
 TREES
 GROUND ELEVATION
 GRADE ELEVATION
 R.O.W. MARKER POSTS

LAYOUT

SCALE 6 IN. = 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 3.68 MI.

WISCONSIN HIGHWAY COMMISSION

MADISON, WIS.

Surveyor: *CEH & GDH* Note Book: 9280
 Div. Computer: *H.R.H.* M. O. Checker
 Div. Checker: *SGE* Correct

CORRECT: 4/20/29

RECOMMENDED FOR APPROVAL: *W.S. Buntow*
 DEPUTY STATE HIGHWAY ENGINEER

APPROVED: *W.S. Buntow*
 DATE: 4/25/29
 STATE HIGHWAY ENGINEER

FED. ROAD DIST. NO.	STATE	STATE AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
4	WISC.	9280	2	31

DIVISION JOB NO. 9280

DIVISION JOB NO. 9280

INTERCEPTING DITCH NOT LESS THAN 8' DEEP

POINT REFERRED TO ON CROSS SECTIONS AND PROFILE

CUT SECTION

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

CUT AND FILL SECTION

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

HIGH FILL SECTION
WHERE GUARD FENCE IS REQ'D

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

LOW FILL SECTION

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

SURFACING SECTION
 3" 1st COURSE = 16.05 C.Y. PER STA.
 2" 2nd " = 10.70 " " " "
 TOTAL = 26.75 " " " "
 TOTAL = 1500 C.Y. PER MILE

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

CUT AND FILL SECTION
WHERE BORROW DITCH IS REQ'D

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

SUPERELEVATED SECTION
SLOPE VARIABLE

POINT REFERRED TO ON PROFILE AND CROSS SECTIONS

CUT SECTION
WITH ROCK SLOPES

DEGREE OF CURVE	SUPER IN FEET PER FOOT	WIDENING	START AND END
1°	0.01		20'
2°	0.02		40'
3°	0.03		60'
4°	0.04		80'
5°	0.05		100'
6°	0.06		120'
7°	0.07	2.0	140'
8°	0.08	2.0	160'
9°	"	2.0	"
10°	"	2.0	"
10° 30'	10	3.0	"
14° 30'	10	4.0	"
19° 30'	10	5.0	"
24° 30'	10	6.0	160'

SUPER. IS CONSTANT FOR CURVES OVER 8° FOR 30° CURVES USE SUPER. OF NEXT LARGER CURVE.

RETAINING WALL

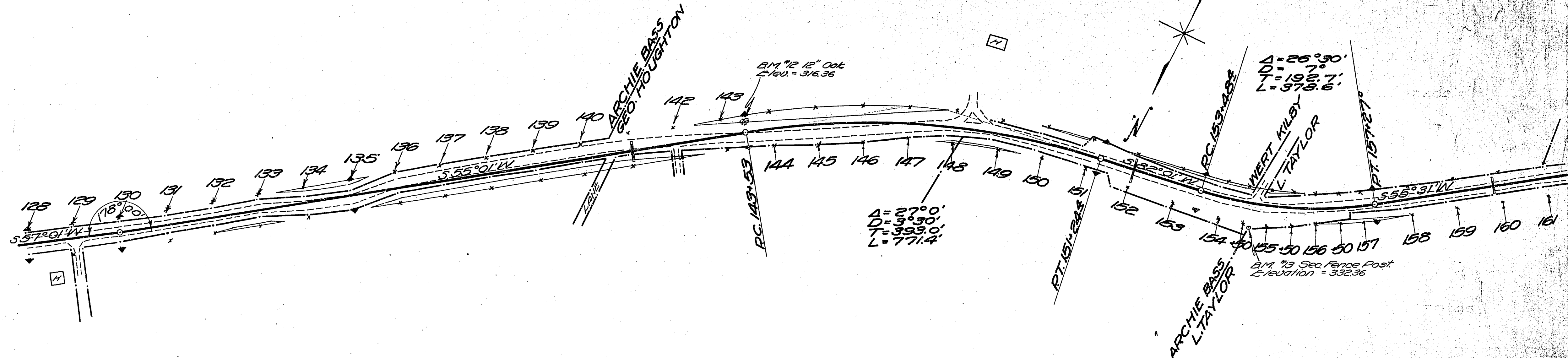
TYPICAL CROSS SECTION
FOR
26' FEATHEREDGE CRUSHED ROCK SURFACING

WISCONSIN HIGHWAY COMMISSION
MADISON - WIS.

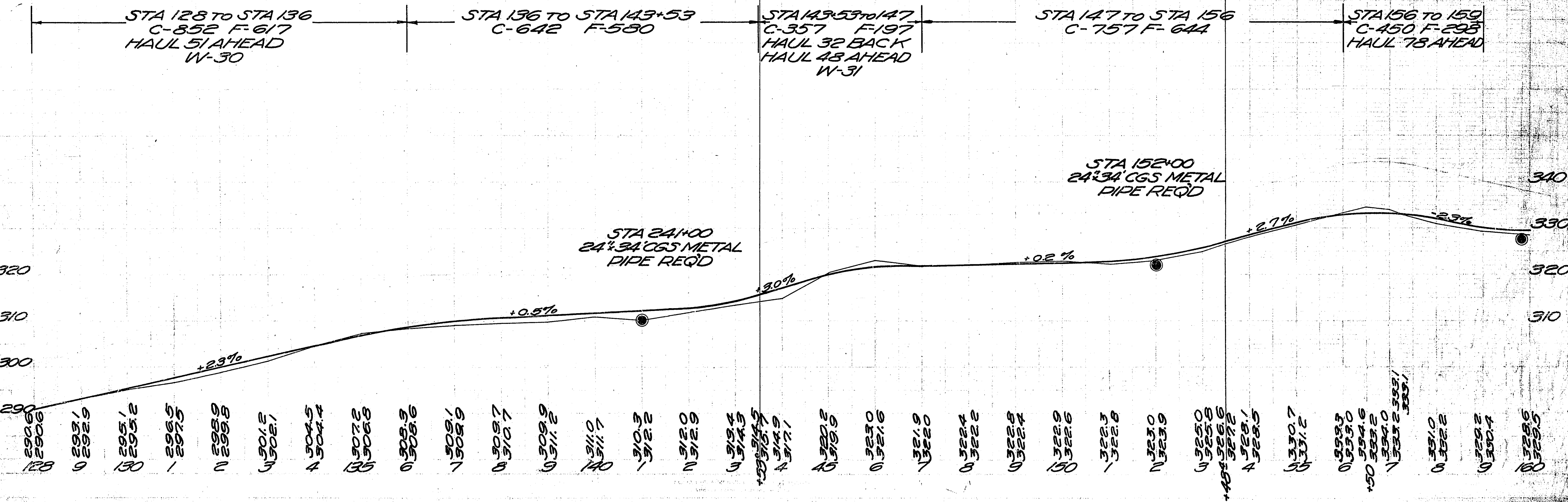
SCALE 1 IN = 10 FT.

GUARD FENCE
STA 141 CULVT. MARKER 1 POST TYPE "C"
STA 152 CULVT. MARKER 1 POST TYPE "C"

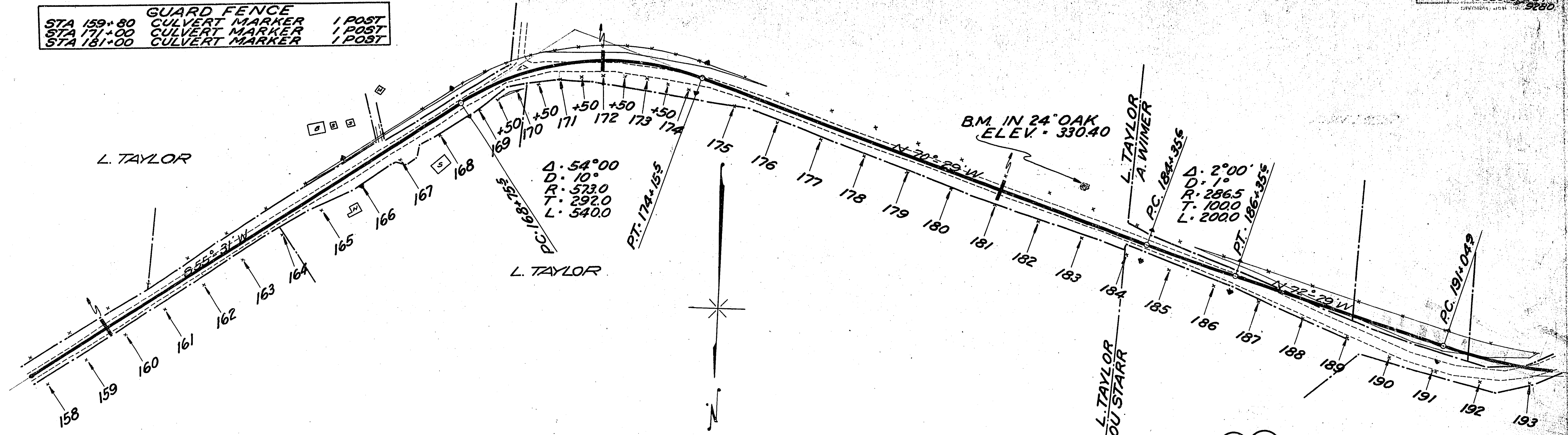
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NET E LENGTH STA 128 TO 158 = 3000 LIN. FT.

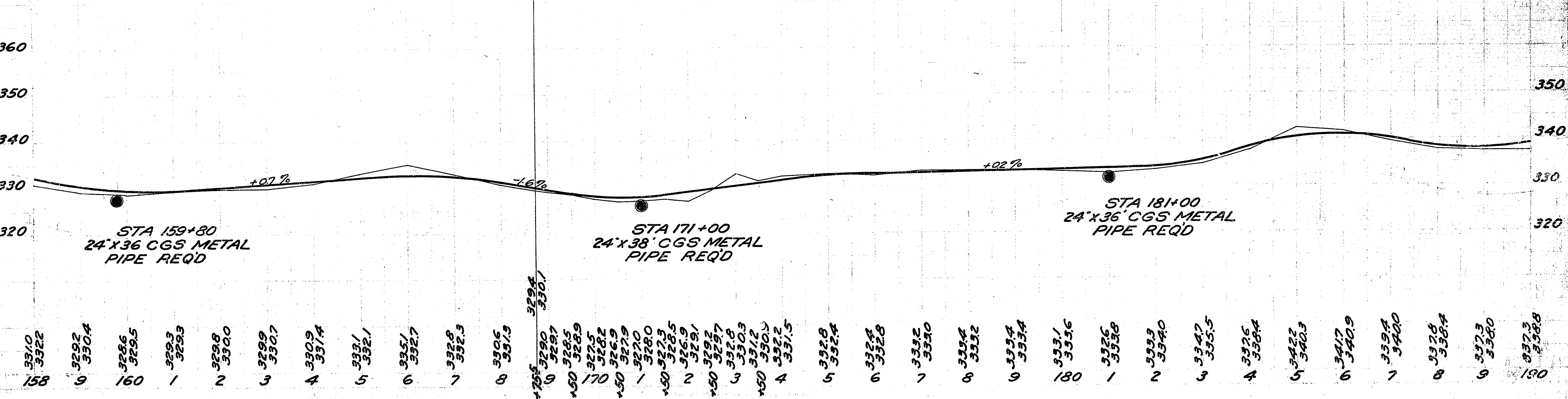
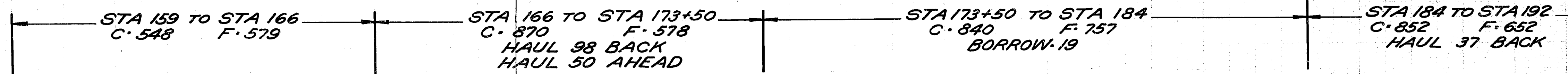


GUARD FENCE
 STA 159+80 CULVERT MARKER 1 POST
 STA 171+00 CULVERT MARKER 1 POST
 STA 181+00 CULVERT MARKER 1 POST



NET LENGTH STA 158 TO STA 184 = 2600 LIN. FT.

NET LENGTH STA 184 TO STA 188 400 LIN. FT.



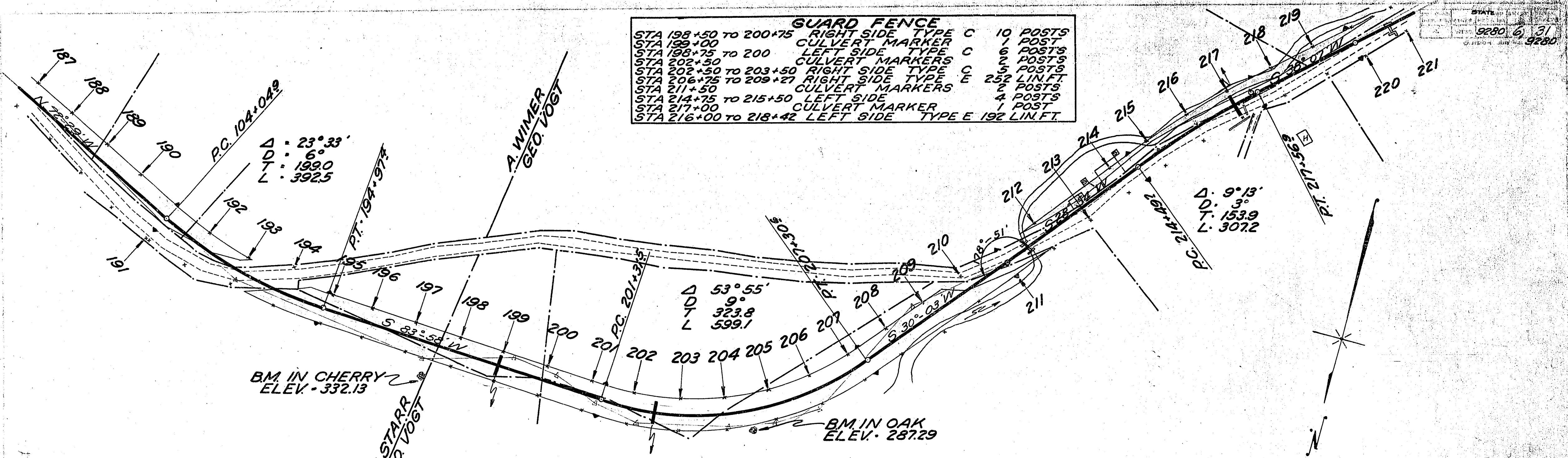
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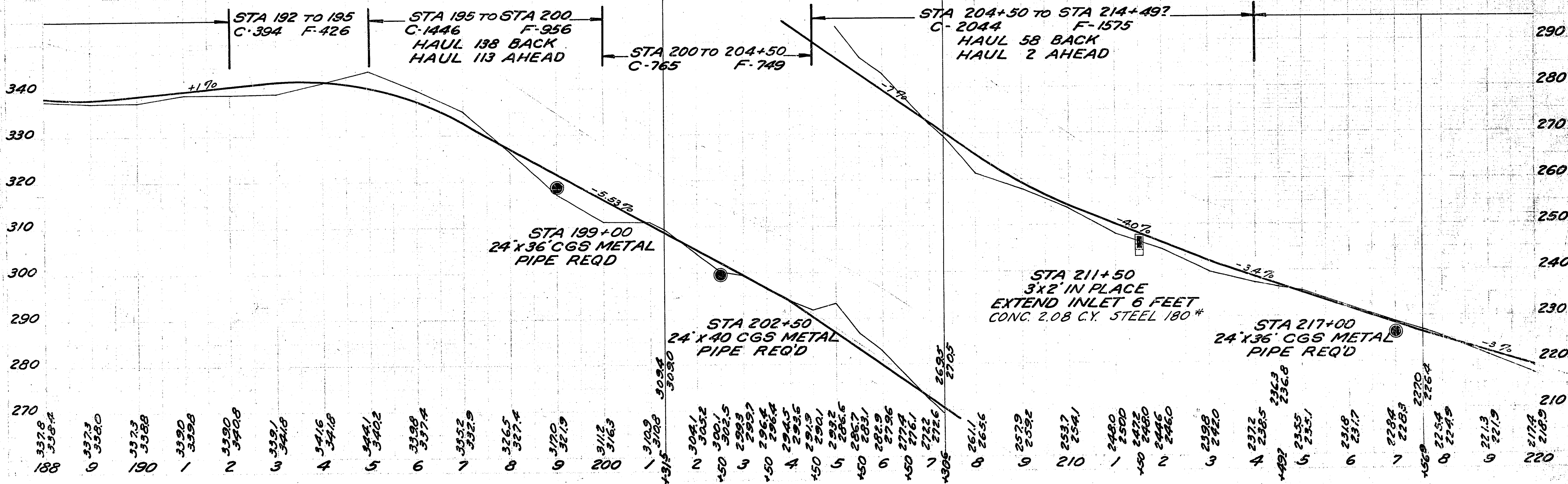
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GUARD FENCE			
STA 198+50 TO 200+75	RIGHT SIDE	TYPE C	10 POSTS
STA 199+00	CULVERT MARKER		1 POST
STA 198+75 TO 200	LEFT SIDE	TYPE C	6 POSTS
STA 202+50	CULVERT MARKERS		2 POSTS
STA 202+50 TO 203+50	RIGHT SIDE	TYPE C	5 POSTS
STA 206+75 TO 209+27	RIGHT SIDE	TYPE E	252 LIN. FT.
STA 211+50	CULVERT MARKERS		2 POSTS
STA 214+75 TO 215+50	LEFT SIDE		4 POSTS
STA 217+00	CULVERT MARKER		1 POST
STA 216+00 TO 218+42	LEFT SIDE	TYPE E	192 LIN. FT.

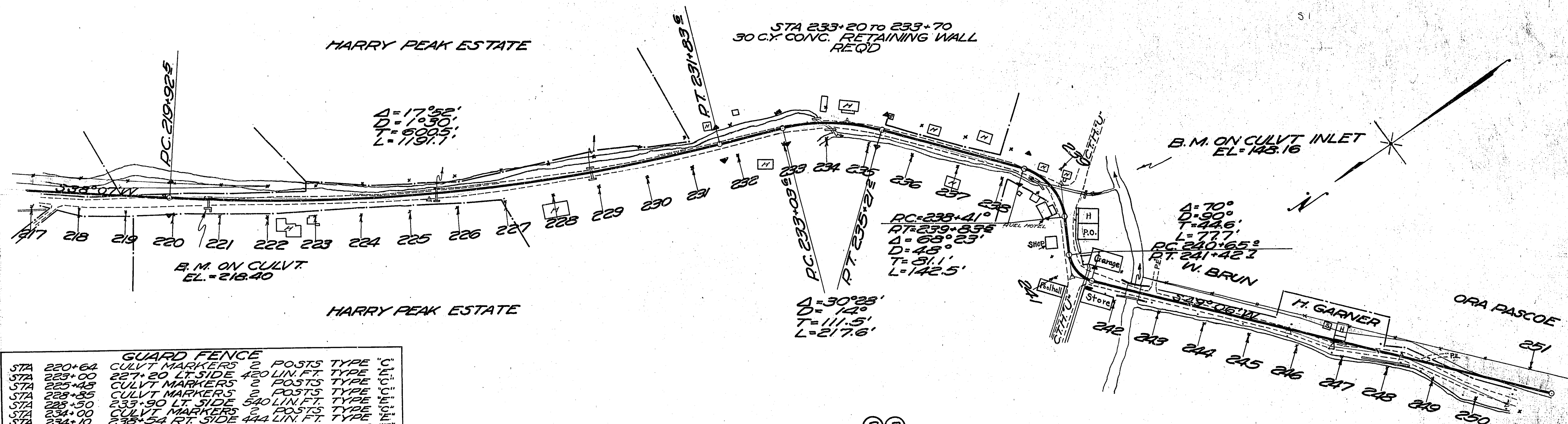


NET & LENGTH STA 188 TO STA 218 = 3000 LIN. FT.



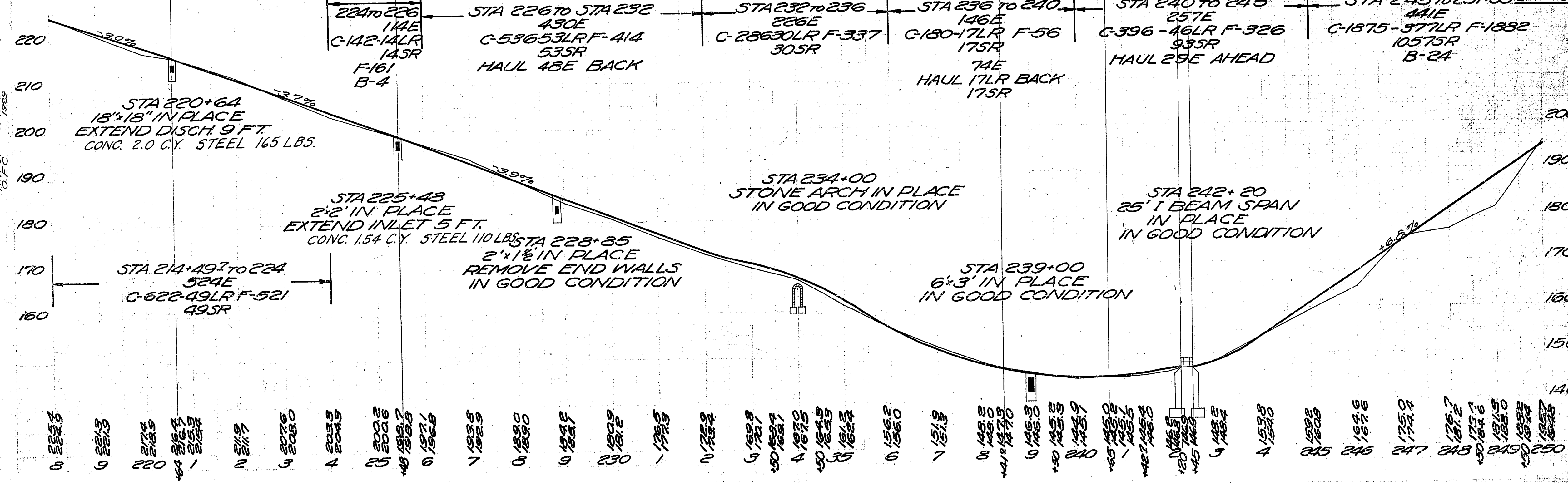
1927
C.E. Horne
1928
H.B. Hymer
1929
T.W. Kelly
1930
A.E. Pugh

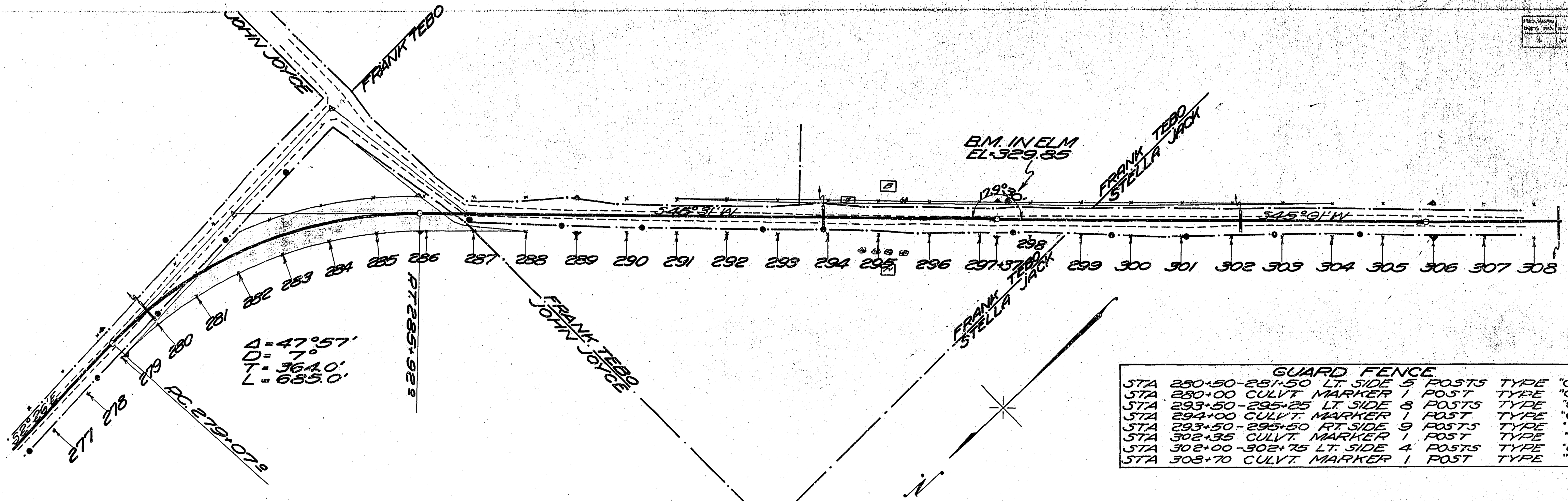
9280



GUARD FENCE				
STA 220+64	CULVT MARKERS	2 POSTS	TYPE "C"	
STA 223+00	227+20 LT. SIDE	420 LIN. FT.	TYPE "E"	
STA 225+48	CULVT MARKERS	2 POSTS	TYPE "C"	
STA 228+85	CULVT MARKERS	2 POSTS	TYPE "C"	
STA 233+90	233+90 LT. SIDE	540 LIN. FT.	TYPE "E"	
STA 234+00	CULVT MARKERS	2 POSTS	TYPE "E"	
STA 234+10	238+54 RT. SIDE	444 LIN. FT.	TYPE "E"	
STA 242+50	249+70 RT. SIDE	120 LIN. FT.	TYPE "E"	
STA 247+15	249+50 LT. SIDE	8 POSTS	TYPE "C"	

NET & LENGTH STA 218 TO 236 = 1300 LIN. FT. (2) (3) STA 236 TO 243 = 1200 FT.

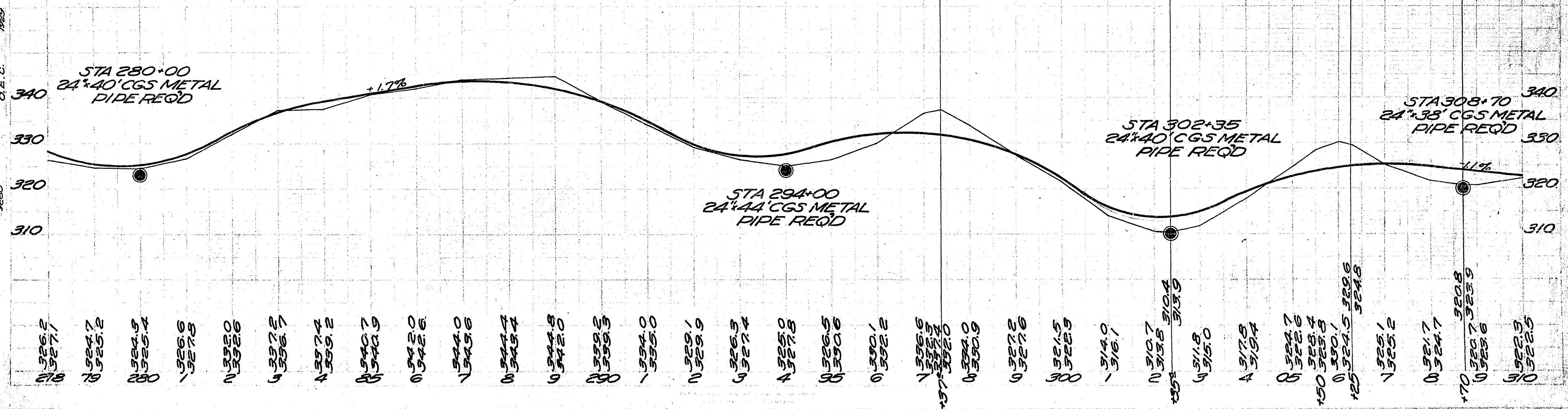


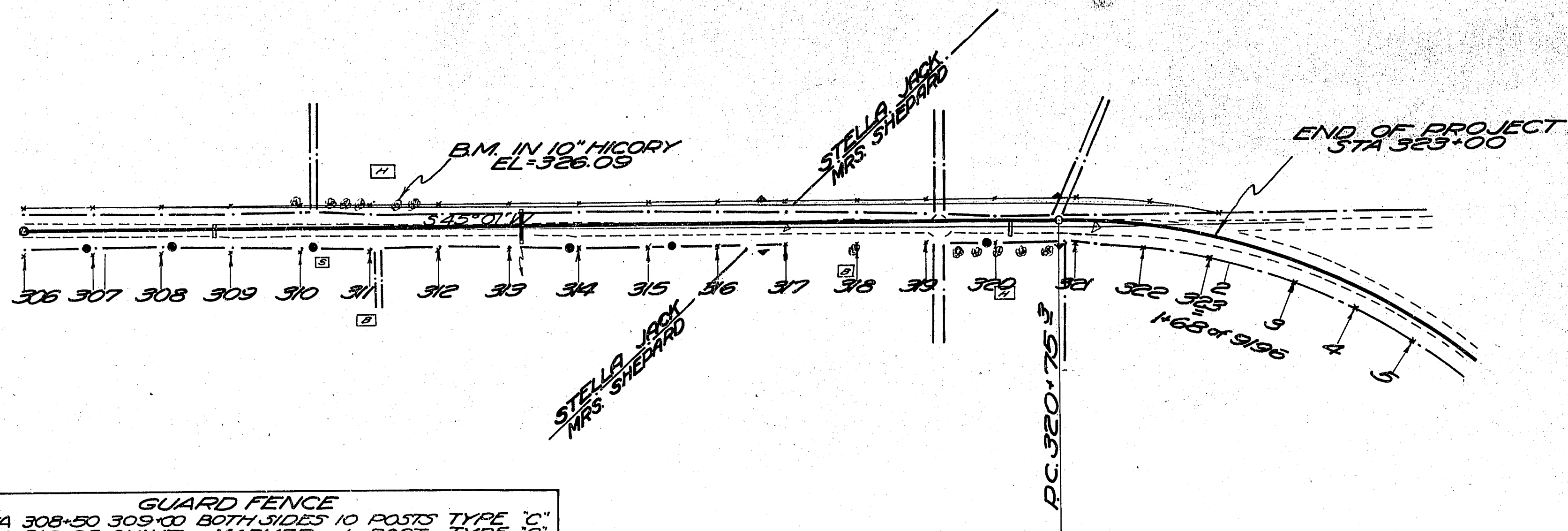


GUARD FENCE			
STA 280+50-281+50	LT. SIDE 5	POSTS	TYPE "C"
STA 280+00	CULVT. MARKER 1	POST	TYPE
STA 293+50-295+25	LT. SIDE 8	POSTS	TYPE
STA 294+00	CULVT. MARKER 1	POST	TYPE
STA 293+50-295+50	RT. SIDE 9	POSTS	TYPE
STA 302+35	CULVT. MARKER 1	POST	TYPE
STA 302+00-302+75	LT. SIDE 4	POSTS	TYPE
STA 308+70	CULVT. MARKER 1	POST	TYPE

NET & LENGTH STA 278 TO 288=1000 LIN. FT. ③ ④ STA 288 TO 308=2000 LIN. FT.

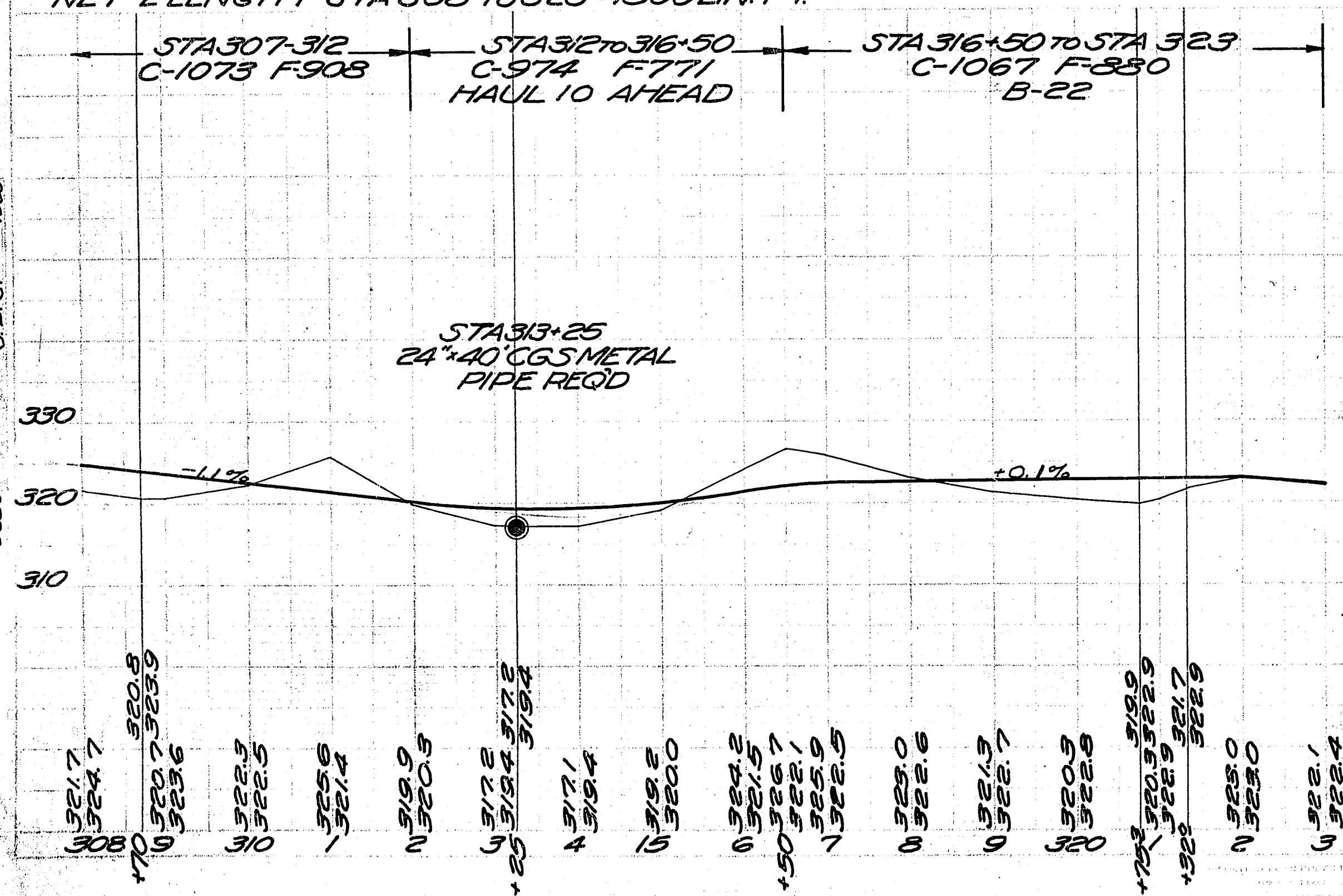
STA 281 TO 284 C-330 F-276 B-15	STA 284 TO 288 C-221 F-229	STA 288 TO STA 293 C-987 F-400 HAUL 65 BACK HAUL 422 AHEAD	STA 293 TO STA 298 C-1459 F-1670	STA 298 TO 301 C-659 F-361 HAUL 207 BACK	STA 301 TO STA 307 C-1789 F-1345 HAUL 108 AHEAD
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GUARD FENCE
 STA 308+50 309+00 BOTH SIDES 10 POSTS TYPE "C"
 STA 313+25 CULVT MARKER 1 POST TYPE "C"
 STA 319+75 321+50 RTSIDE 8 POSTS TYPE "C"

NET E LENGTH STA 308 TO 323 = 1500 LIN. FT.



CULVERT SCHEDULE

NAME OF ROAD LANCASTER-CASSVILLE WIDTH OF ROADWAY 26 TYPE OF SURFACING CRUSHED-ROCK COUNTY GRANT PROJ. NO. 9280 DIV. JOB NO. 9280

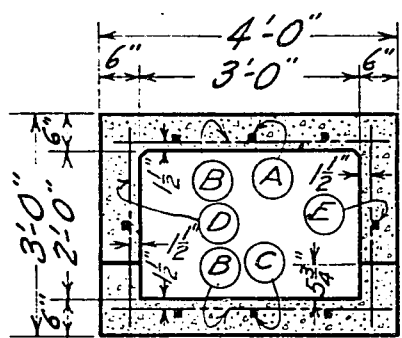
NAME OF ROADLANCASTER-CASSVILLE																			WIDTH OF ROADWAY 26				TYPE OF SURFINGCONCRETE ASPHALT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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SUMMARY OF PIPE CULVERTS

CORRUGATED SHEET METAL PIPE (Total Lineal Feet)												CAST IRON PIPE		CONCRETE PIPE	
TYPE	Diam.	24" Diam.	30" Diam.	Diam.	Diam.	Diam.	Diam.	Diam.	Diam.	Diam.	Diam.	Diam.	Total Lineal Feet	Diam.	Total Lineal Feet
Pure Iron															
Copper Pure Iron															
Copper Iron		528'	62'												
Molybdenum															
Copper Steel															

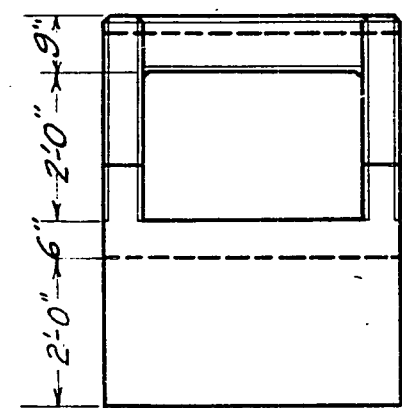
STATE PROJ.# 9280—A

SECTION A-A



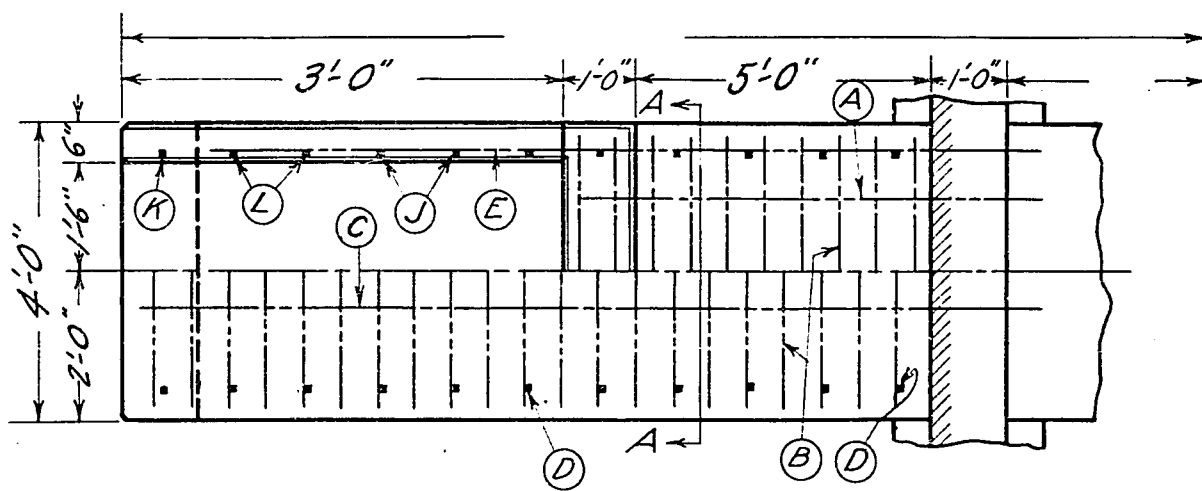
SHOWING REINFORCEMENT

NOT DRAWN TO SCALE

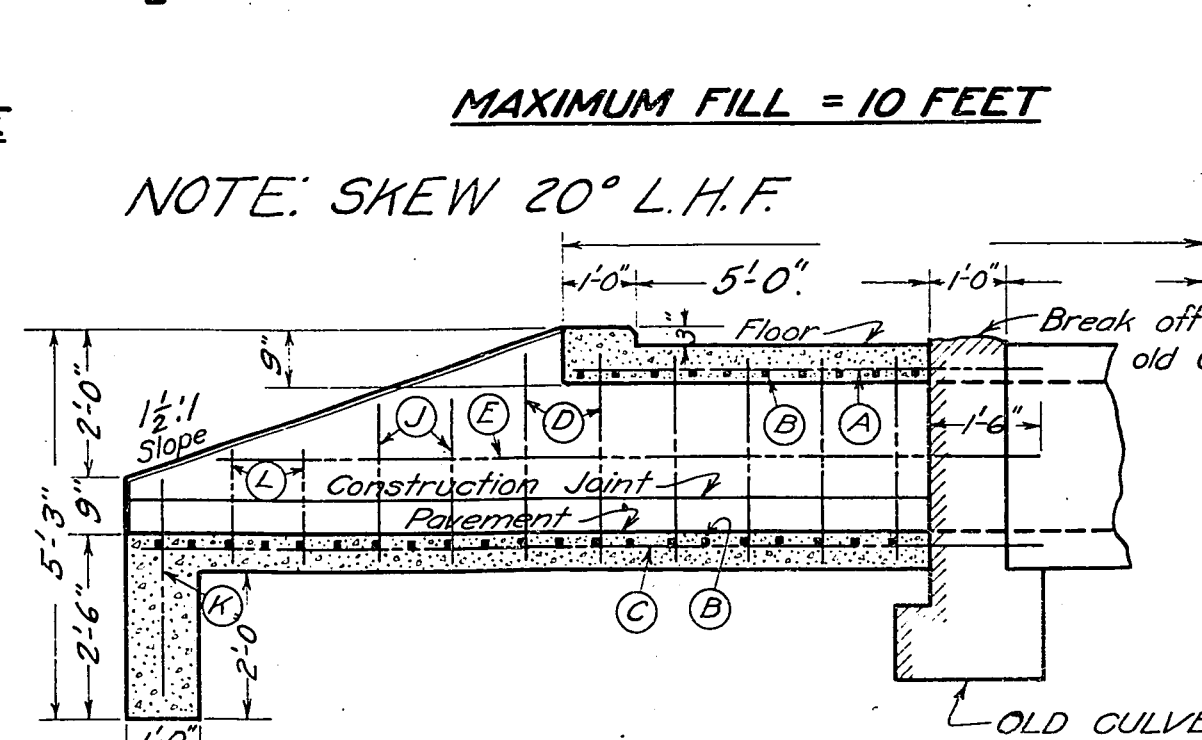


END ELEVATION

1/2 PLAN OF TOP REINFORCEMENT



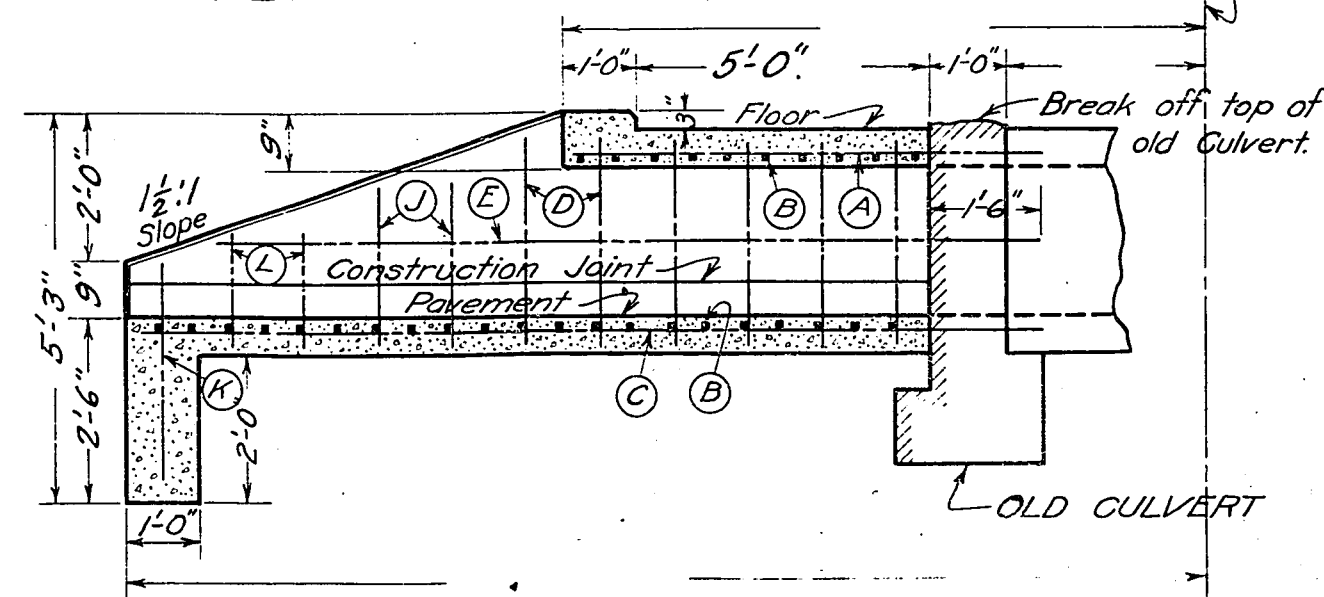
1/2 PLAN OF BOTTOM REINFORCEMENT



MAXIMUM FILL = 10 FEET

NOTE: SKEW 20° L.H.F.

1/2 TRANSVERSE SECTION ON C



BILL OF REINFORCING

MARK	NUMBER	LENGTH	SPACING
A	3	7'-3"	1'-0"
B	22	3'-9"	0'-7"
C	3	10'-3"	1'-0"
D	16	2'-9"	1'-0"
E	2	9'-9"	1'-0"
J	2	2'-0"	1'-0"
K	2	3'-3"	1'-0"
L			1'-0"
Total Steel		180	Lbs.
Total Concrete		2.08	Cu. Yds.
Cement			Bbls.
Sand			Cu. Yds.
Stone			Cu. Yds.

GENERAL NOTES.

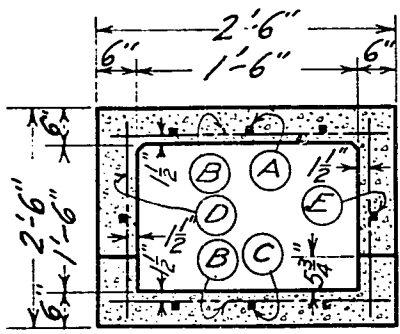
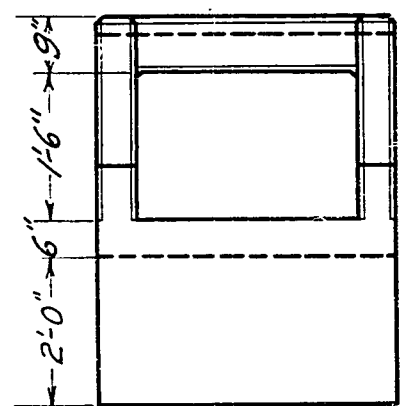
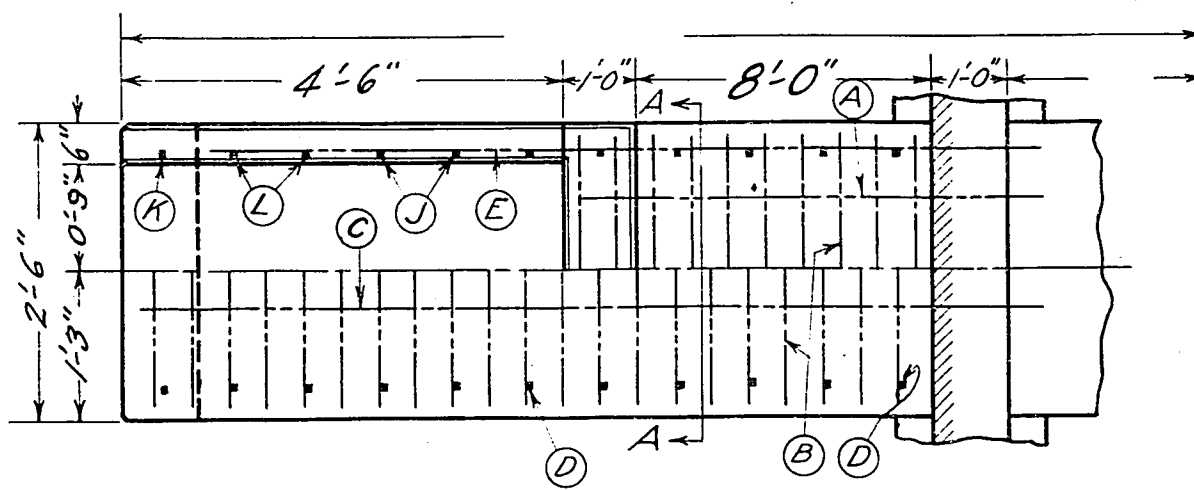
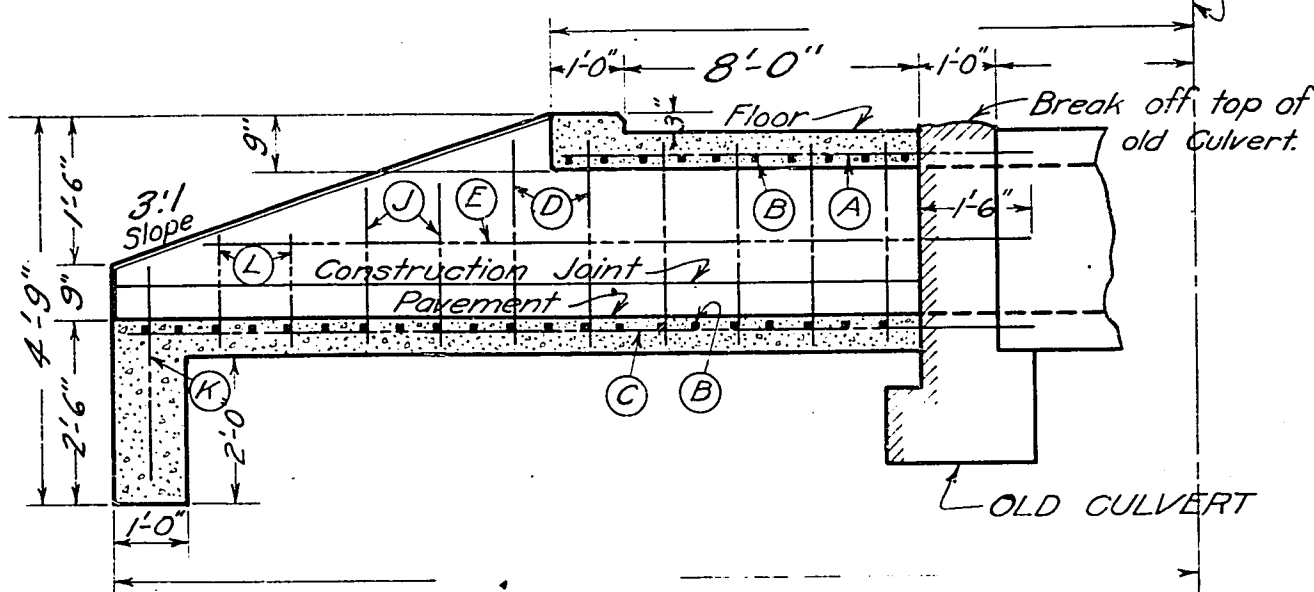
2 1/2
All concrete shall be Class A - 1:2:4 proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges with a triangular strip from a 3/4 x 3/4 piece.

All bar reinforcement shall be 1/2" square deformed mechanical bond bars properly supported with approved metallic bar spacers. Bars shall lap 40 diameters where spliced and shall be securely wired with #16 wire. Dowel longitudinal steel 18" into old culvert.

Standard specifications of the Wisconsin Highway Commission.

SPECIAL DESIGN
CONC. CULVERT EXTENSION
SLOPING ENDWALLS
SIZE: 3'X2'— STA. 211+50
WISCONSIN HIGHWAY COMMISSION

Corrected: *[Signature]*
Approved: *[Signature]*
Approved: *[Signature]*

SECTION A-A**SHOWING
REINFORCEMENT****NOT DRAWN TO SCALE****END ELEVATION****1/2 PLAN OF TOP REINFORCEMENT****1/2 PLAN OF BOTTOM REINFORCEMENT****MAXIMUM FILL = 10 FEET****1/2 TRANSVERSE SECTION ON C****BILL OF REINFORCING**

MARK	NUMBER	LENGTH	SPACING
A	2	10'-3"	1'-0"
B	23	2'-3"	1'-0"
C	2	14'-9"	1'-0"
D	22	2'-3"	1'-0"
E	2	14'-0"	1'-0"
J	4	1'-9"	1'-0"
K	2	3'-3"	1'-0"
L	-	-	1'-0"
Total Steel		165	Lbs.
Total Concrete		2.0	Cu. Yds.
Cement		-	Bbls.
Sand		-	Cu. Yds.
Stone		-	Cu. Yds.

GENERAL NOTES. 2 1/2

All concrete shall be Class A - 1:2:4 proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges with a triangular strip from a 3/4 x 3/4 piece.

All bar reinforcement shall be 1/2 square deformed mechanical bond bars properly supported with approved metallic bar spacers. Bars shall lap 40 diameters where spliced and shall be securely wired with #16 wire. Dowel longitudinal steel 18" into old culvert.

Standard specifications of the Wisconsin Highway Commission.

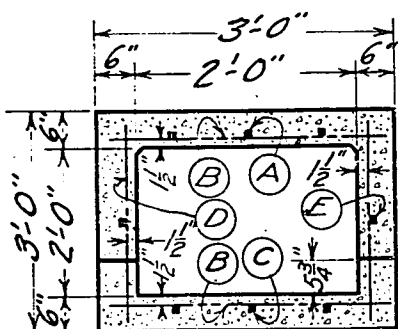
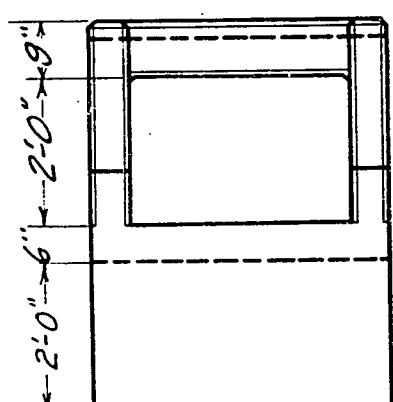
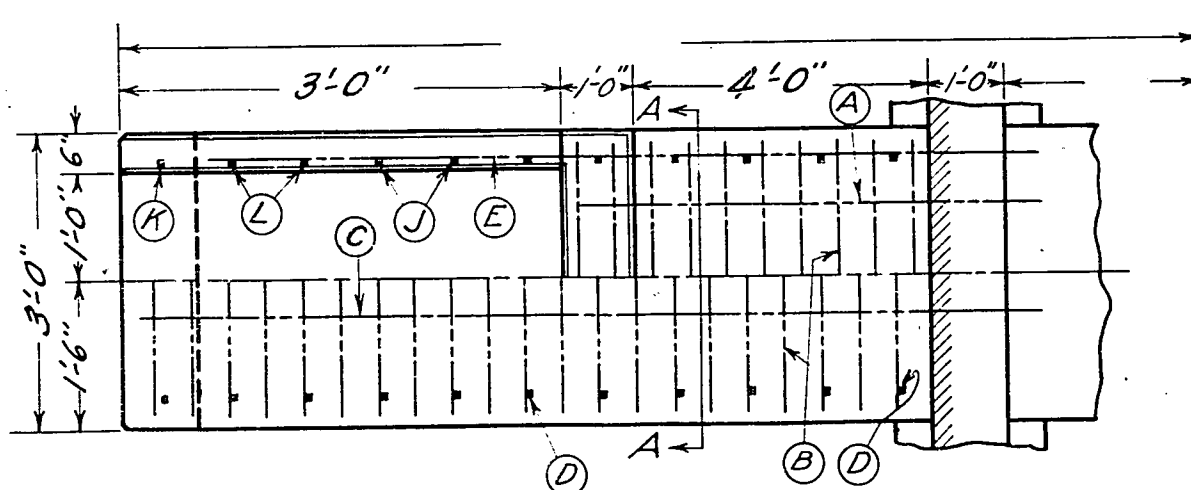
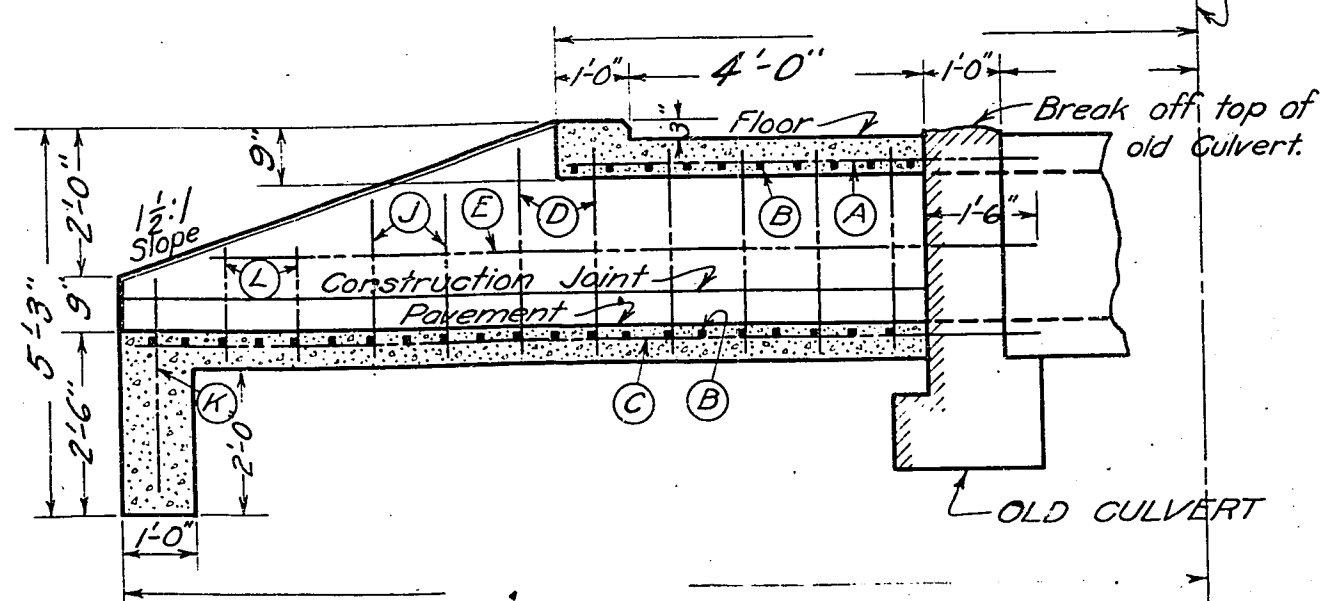
**SPECIAL DESIGN
CONC. CULVERT EXTENSION
SLOPING ENDWALLS**

SIZE: 1 1/2 x 1 1/2 STA. 220 + 64
WISCONSIN HIGHWAY COMMISSION

Corrected: *J. Crave*
PLAN ENGINEER.
Approved: *[Signature]*
DEPUTY STATE HIGHWAY ENG.
Approved: *[Signature]*
STATE HIGHWAY ENGINEER.

To be used on Extensions up to 2'-6" Height.

C - 145

SECTION A-A**SHOWING
REINFORCEMENT****NOT DRAWN TO SCALE****END ELEVATION****1/2 PLAN OF TOP REINFORCEMENT****1/2 PLAN OF BOTTOM REINFORCEMENT****MAXIMUM FILL = 10 FEET****1/2 TRANSVERSE SECTION ON C****BILL OF REINFORCING**

MARK	NUMBER	LENGTH	SPACING
A	2	6'-3"	1'-0"
B	13	2'-9"	1'-0"
C	2	9'-3"	1'-0"
D	12	2'-9"	1'-0"
E	2	8'-9"	1'-0"
J	2	2'-0"	1'-0"
K	2	3'-3"	1'-0"
L	-	-	1'-0"
Total Steel		110	Lbs.
Total Concrete		1.54	Cu. Yds.
Cement		-	Bbls.
Sand		-	Cu. Yds.
Stone		-	Cu. Yds.

GENERAL NOTES. 2 1/2

All concrete shall be Class A - 1:2:4 proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges with a triangular strip from a 3/4 x 3/4 piece.

All bar reinforcement shall be 1/2 square deformed mechanical bond bars properly supported with approved metallic bar spacers. Bars shall lap 40 diameters where spliced and shall be securely wired with #16 wire. Dowel longitudinal steel 18" into old culvert.

Standard specifications of the Wisconsin Highway Commission.

**SPECIAL DESIGN
CONC. CULVERT EXTENSION
SLOPING ENDWALLS**

SIZE: 2' x 2' STA. 225 + 05.7
WISCONSIN HIGHWAY COMMISSION

Corrected: *J. Crave*
PLAN ENGINEER.
Approved: *[Signature]*
DEPUTY STATE HIGHWAY ENG.
Approved: *[Signature]*
STATE HIGHWAY ENGINEER.

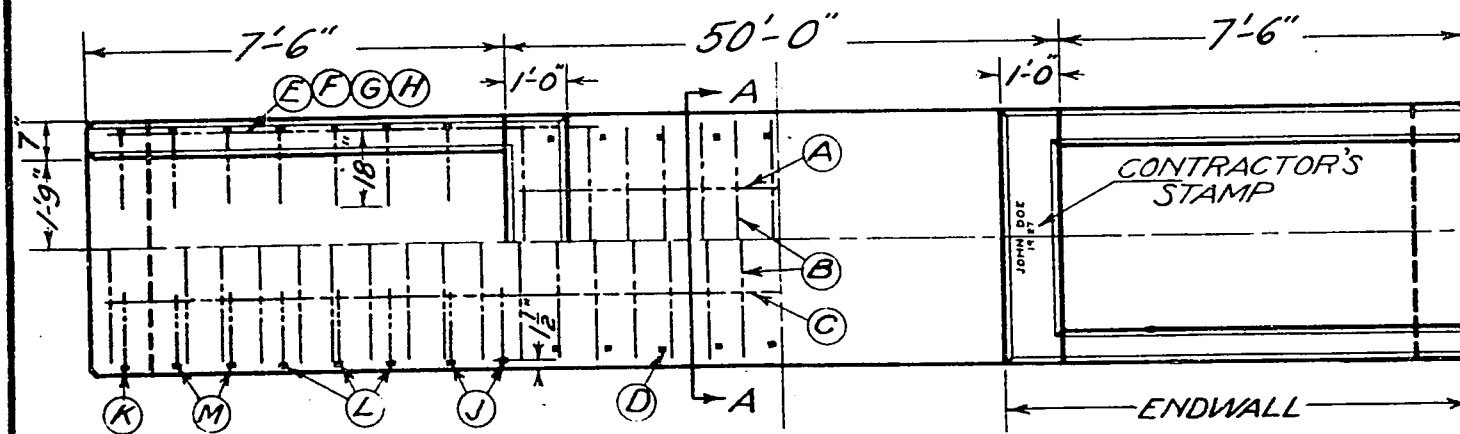
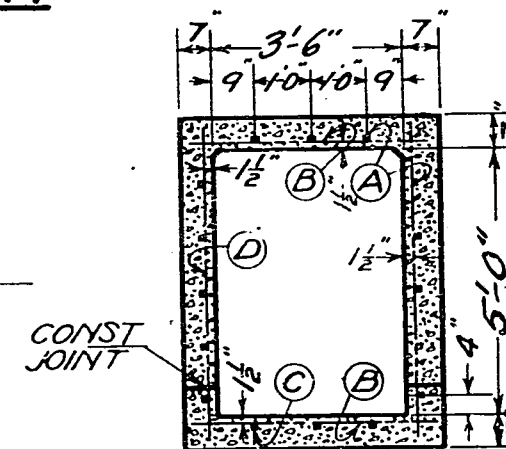
To be used on Extensions up to 2'-6" Height.

C - 145

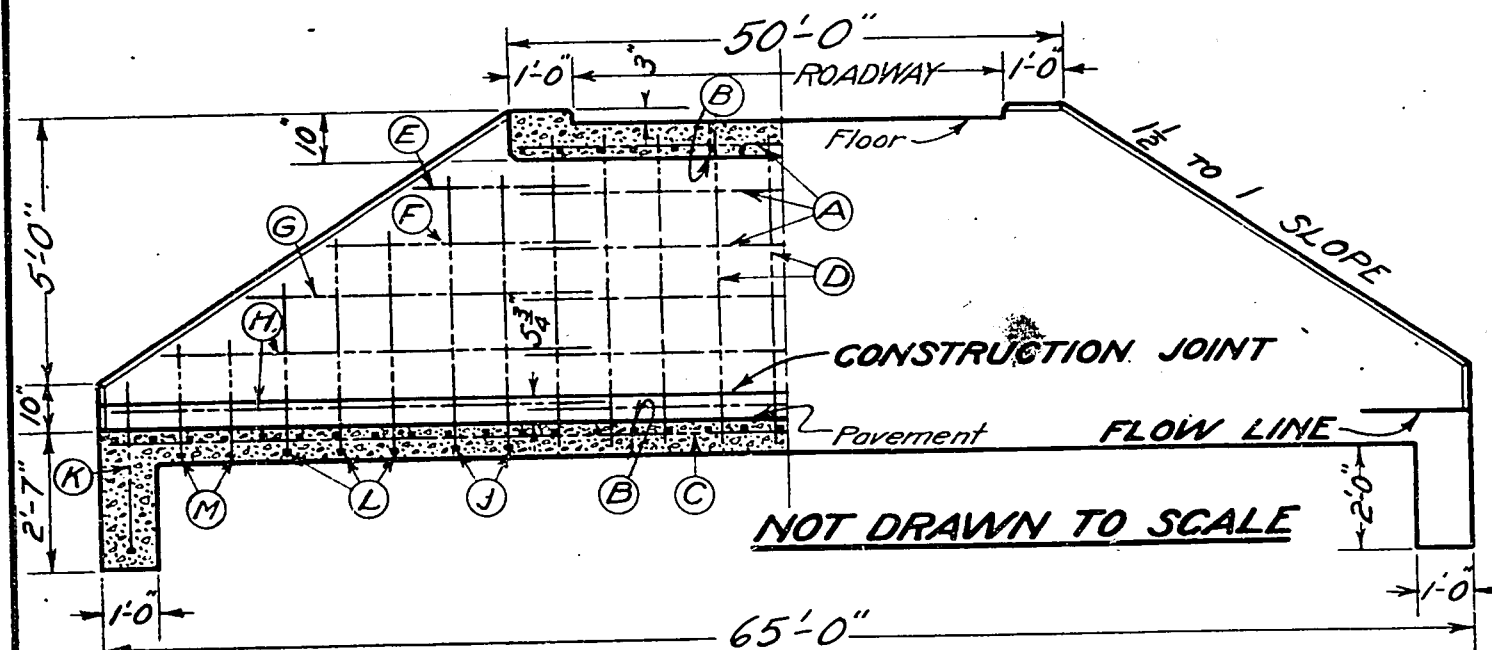
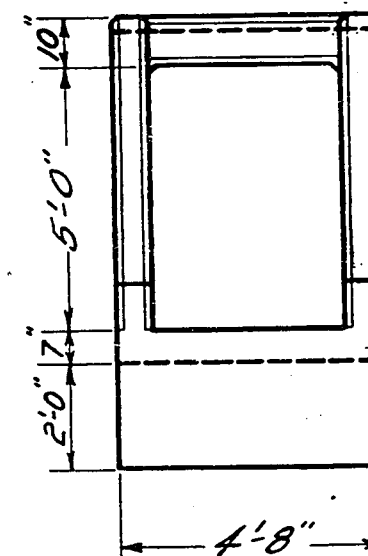
STA. 220 + 64

STA. 225 + 05.7

USE THIS COLUMN ONLY

1/4 PLAN TOP REINFORCEMENT 1/2 PLAN FINISHED CULVERT1/4 PLAN BOTTOM REINFORCEMENTSECTION A-ASHOWING REINFORCEMENT

MAXIMUM FILL = 10 FEET

1/2 TRANSVERSE ELEVATION ON 1/2 SIDE ELEVATIONEND ELEVATIONGENERAL NOTES

All concrete shall be Class -1:2:2 1/2 proportions. Slope barrel 1/4 inch per foot toward discharge end unless otherwise specified. Bottom to be poured monolithic to construction joint. Bevel all exposed edges

with a triangular strip from a 3/4 x 3/4 piece. Depth of cut-off wall to vary with soil conditions. All reinforcement shall be 1/2 square deformed mechanical bond bars properly supported

with approved metallic bar spacers. Bars shall lap 40 diameters where spliced and shall be securely wired with #16 wire. Standard specifications of the Wisconsin Highway Commission.

Span & Height	3 1/2 x 5	3 1/2 x 6
No. & Spac.	13 @ 1'-0"	13 @ 1'-0"
Length	49'-9"	
Number	230	
Length	4'-5"	4'-5"
Spacing	0'-6"	0'-6"
No. & Spac.	3 @ 1'-0"	3 @ 1'-0"
Length	64'-9"	
No. & Spac.	100	
Length	5'-11"	6'-11"
No. & Spac.	4 @ 1'-0"	8 @ 1'-0"
Length	4'-0"	4'-6"
No. & Spac.	4 @ 1'-0"	8 @ 1'-0"
Length	5'-6"	7'-0"
No. & Spac.	4 @ 1'-0"	8 @ 1'-0"
Length	7'-0"	10'-0"
No. & Spac.	8 @ 1'-0"	0
Length	8'-6"	
No. & Spac.	8 @ 1'-0"	12 @ 1'-0"
Length	6'-11"	6'-11"
No. & Spac.	4 @ 1'-0"	4 @ 1'-0"
Length	3'-5"	3'-5"
No. & Spac.	12 @ 1'-0"	12 @ 1'-0"
Length	4'-11"	4'-11"
No. & Spac.	8 @ 1'-0"	8 @ 1'-0"
Length	3'-8"	3'-8"
Concrete in Endwall	2.64	3.246
Cu. Yds. Conc.	25.3	
Cu. Yds. Conc.	418	461
Lin. Ft. Barres		
Lbs. Steel	2330	
Lbs. Steel	38.68	42.00
Lin. Ft. Barres		

STANDARD DESIGN
CONCRETE CATTLE PASS
 1 1/2 TO 1 SLOPING ENDWALLS
 SIZE: 3 1/2' x 5' x 50' STA. 259+20

WISCONSIN HIGHWAY COMMISSION

Corrected: J. CraieApproved: W. S. BuehlerApproved: W. S. BuehlerApproved: W. S. BuehlerApproved: W. S. BuehlerApproved: W. S. Buehler