

**INDEX**

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	STANDARD CROSS SECTIONS Standard Divided Lane Sections For Federal Aid & Interstate Projects (Rev. 11-20-57)
SHEET NO. 3	STANDARD CROSS SECTION E-11 - J.R. Adopted Dec. 1956 ADOPT JAN. 1957
SHEET NO. 4-44-48	TYPICAL CROSS SECTIONS "Standard 10" Ramp Section" Nov. 1958
SHEET NO. 5	STD. PAVEMENT JOINTS Sheet A Adopted April 1957
SHEET NO. 6-24	PLAN AND PROFILE
SHEET NO. 25-26	BRIDGE AND CULVERT DATA - ESTIMATE OF QUANTITIES
SHEET NO. 27-29	MISCELLANEOUS STANDARDS Sheet "A" (Rev. 12-19-57); Sheet "B" Rev. 9-3-57; Sheet "C" Rev. 3-8-57
SHEET NO. 30-32	MISCELLANEOUS STANDARDS Sheet "G" Rev. 5-4-56; Sheet "D" Rev. 2-1-54; Sheet "H" Rev. 3-6-57
SHEET NO. 33-35	MISCELLANEOUS STANDARDS Sheet "E" Rev. 7-28-58; Sheet "I" Rev. 1-6-54; Sheet "J" Rev. 5-31-56
SHEET NO. 36-38	MISCELLANEOUS STANDARDS Sheet "K" Rev. 9-1-51; Sheet "L" Rev. 1-03-58; Sheet "P" Rev. 2-28-58
SHEET NO. 39-40	MISCELLANEOUS STANDARDS Sheet "Q" Rev. 4-25-58; Sheet "R" Rev. 4-25-58
SHEET NO.	STD. STRUCTURE CONNECTIONS FOR EXTENSIONS
SHEET NO.	STD. REINF. CONC. BOX CULVERT
SHEET NO.	STD. REINF. CONC. BOX CULVERT, SKEWED END AND WING DETAILS, SKEW
SHEET NO.	STD. REINF. CONC. BOX CULVERT, SKEWED END AND WING DETAILS, SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN)
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 15' SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 15' SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN) 30' SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 30' SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE WITHOUT FILL (10'-0" TO 20'-0" SPAN) 45' SKEW
SHEET NO.	STD. REINF. CONC. CULV. - SLAB TOP TYPE UNDER FILL 1'-0" TO 5'-0" (10'-0" TO 20'-0" SPAN) 45' SKEW
SHEET NO. 41	STD. GUARD RAIL Adopted July 1956
SHEET NO. 42	STEEL BEAM GUARD RAIL Rev. 1-10-57
SHEET NO. 43	DATA FOR SUPERELEVATING AND WIDENING OF CURVES Adopted Sept. 1932
SHEET NO. 44-45	STD. DETOUR SIGNS Sheet 1 Rev. 2-11-54, Sheet 2 Rev. 5-1-51
SHEET NO. 46-125	CROSS SECTIONS

\* 14A, 15A, 24A Through 24E, 24A, 124A Through 124F, 194A, 194B Added Sheets.

**CODE 0206**

**STATE OF INDIANA  
STATE HIGHWAY DEPARTMENT**

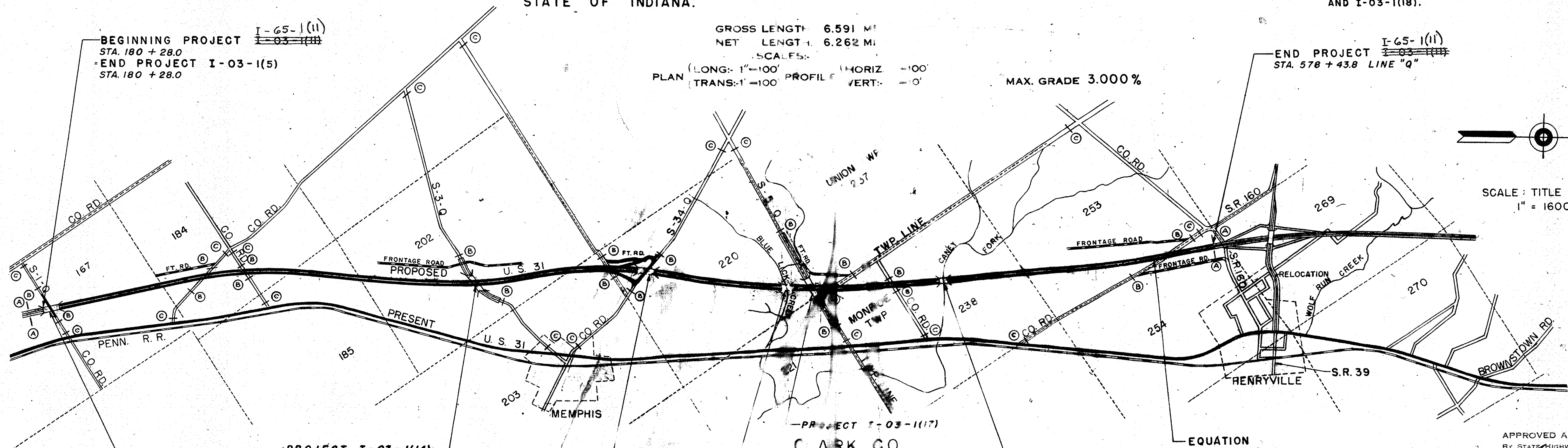
**PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
NEW PROJECT NO. I-65-1(11)  
PROJECT NO. I-03-1(11)**

BEGINNING AT A POINT ON PROPOSED U. S. ROAD 31  
3554.5' S. OF THE N. LINE OF GRANT 167 IN UNION TOWNSHIP; THENCE  
IN A NORTHERLY DIRECTION 34,802.3 FEET ALONG THE CENTERLINE  
TO THE POINT OF ENDING; SAID POINT BEING 610.4 FEET EAST AND  
65.8 FEET SOUTH OF THE NORTHWEST CORNER OF GRANT 254 IN  
MONROE TOWNSHIP, ALL IN CLARK MILITARY GRANT, CLARK COUNTY,  
STATE OF INDIANA.

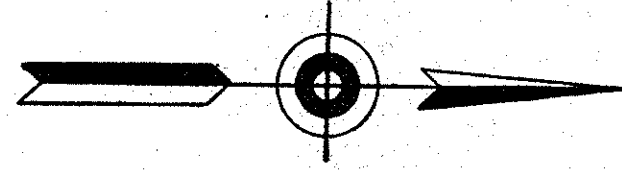
REVISIONS		
DATE	SHEET NO.	REVISED
5-5-1958	16	RIGHT OF WAY
10-30-58	1, 2 & 4	STD. DIVIDED LANE SECTIONS
11-3-58	1, 4, 4A, 14A, 15A, 24A thru 24G incl. 124 F incl., 194A, 194 B, 195	MEMPHIS INTERCHANGE ADDED
12-4-58	24E, 24F, 24A	Long Joint
10-19-52	9	DISPO. OF R/W

DESIGN DATA	
A.D.T. 1955	6266
A.D.T. 1975	17419
D.H.V. 1975	2090
DIRECTION	0.6
TRUCKS	13%
DESIGN SPEED	70 M.P.H.
ACCESS CONTROL	FULL

NOTE: RIGHT OF WAY SHOWN ON PLANS OF THIS PROJECT INCLUDE RIGHT OF WAY REQUIRED FOR SEPARATE CONTRACTS I-03-1(12), I-03-1(14), I-03-1(15), I-03-1(16), I-03-1(17), AND I-03-1(18).



GROSS LENGTH 6.591 MI  
NET LENGTH 6.262 MI  
SCALES:  
PLAN (LONG: 1"=100' HORIZ: 1"=100'  
TRANS: 1"=100' PROFILE VERT: 1"=10')



SCALE: TITLE SHEET  
1" = 1600'

EXCEPTION  
STA. 180 + 28 TO STA. 184 + 65  
PROJECT I-03-1(12)

EXCEPTION  
STA. 359 + 57 TO STA. 364 + 27  
PROJECT I-03-1(15)

EXCEPTION  
STA. 401 + 57 TO STA. 451 + 70  
PROJECT I-03-1(16)

EXCEPTION  
STA. 447 + 95 TO STA. 452 + 14  
PROJECT I-03-1(18)

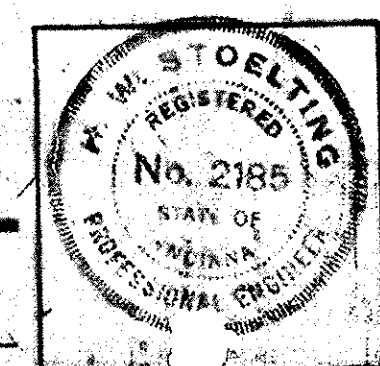
EQUATION  
STA. 515 + 86.5 =  
STA. 566 + 00

TRAFFIC VOLUMES SHOWN ARE D.H.V. 1975  
DIRECTIONAL FACTORS USED.

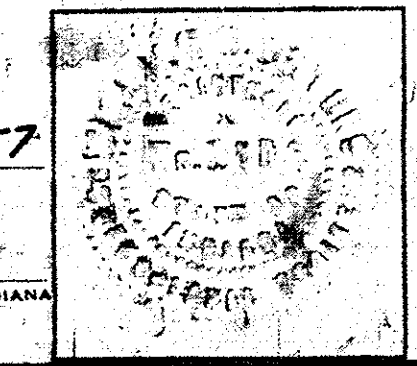
- LEGEND
- (A) STANDARD BARRICADE - TYPE "A"
  - (B) STANDARD BARRICADE - TYPE "B"
  - (C) TYPICAL SIGN STANDARDS

STATE HIGHWAY DEPARTMENT OF INDIANA.  
STANDARD SPECIFICATIONS DATED 1957  
TO BE USED WITH THESE PLANS.

THESE PLANS PREPARED BY  
**CLYDE E. WILLIAMS ASSOCIATES**  
PROFESSIONAL ENGINEERS  
SOUTH BEND, LAMAR, INDIANAPOLIS  
CERTIFIED 12/9/57



RECOMMENDED FOR APPROVAL 12-27-57  
*W.A. Behrens*  
ENGINEER OF ROAD DESIGN, STATE HIGHWAY DEPARTMENT OF INDIANA



APPROVED AND ADOPTED 12/30/57  
BY STATE HIGHWAY DEPARTMENT OF INDIANA  
*Carl E. Vezichewsky*  
CHIEF ENGINEER - STATE HIGHWAY DEPARTMENT OF INDIANA

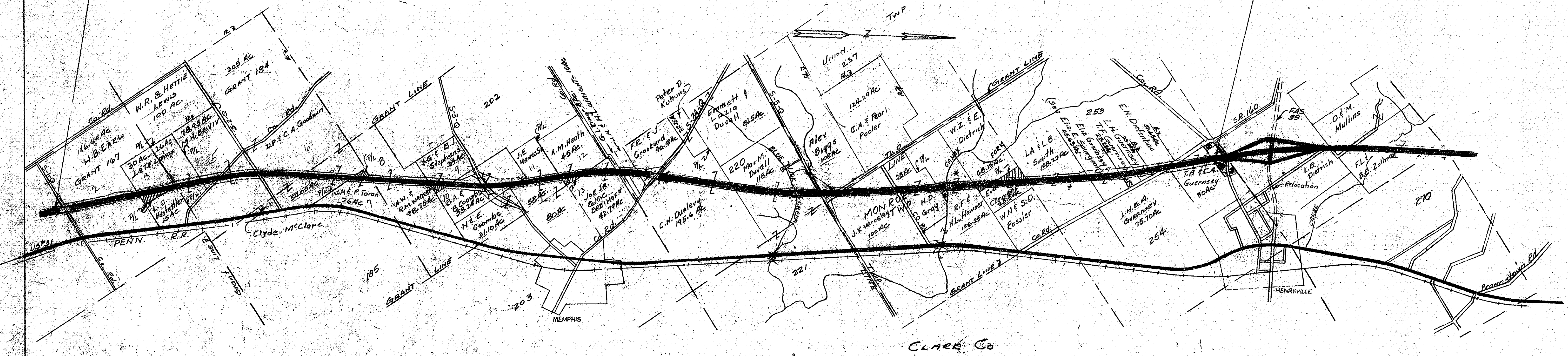
BUREAU OF PUBLIC ROADS  
DEPARTMENT OF COMMERCE  
APPROVED  
[Signature] DISTRICT ENGINEER  
DATE

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
A	IND.	65-1(11)	1957	2	26

14.00  
17.50  
51.50

BEGINNING PROJECT I-65-1(11)  
STA 180 + 28.0  
END PROJECT I-03-1(5)

END PROJECT I-65-1(11)  
STA 578 + 43.8



MAP SHOWING LAND BOUNDARIES  
INTERSTATE HIGHWAY 31  
PROJECT NO I-65-1(11)

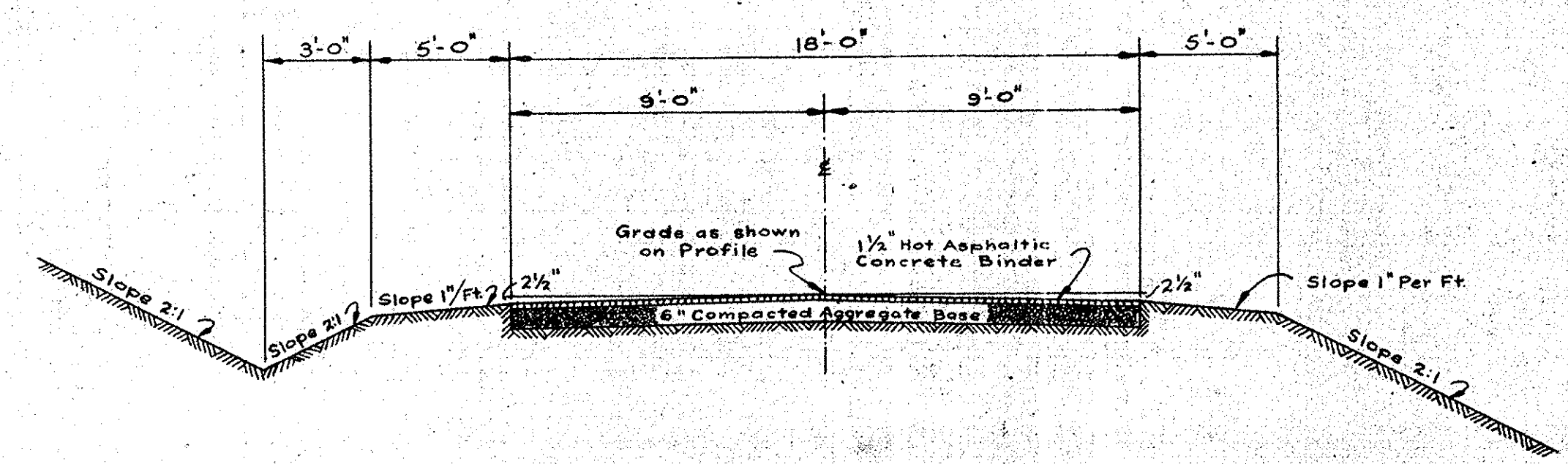
Scale 1" = 1600'

Plat No. 2  
For R/W Dept.

CLYDE E. WILLIAMS & ASSOCIATES  
PROFESSIONAL ENGINEERS  
720 EAST 38th STREET  
INDIANAPOLIS 5, INDIANA

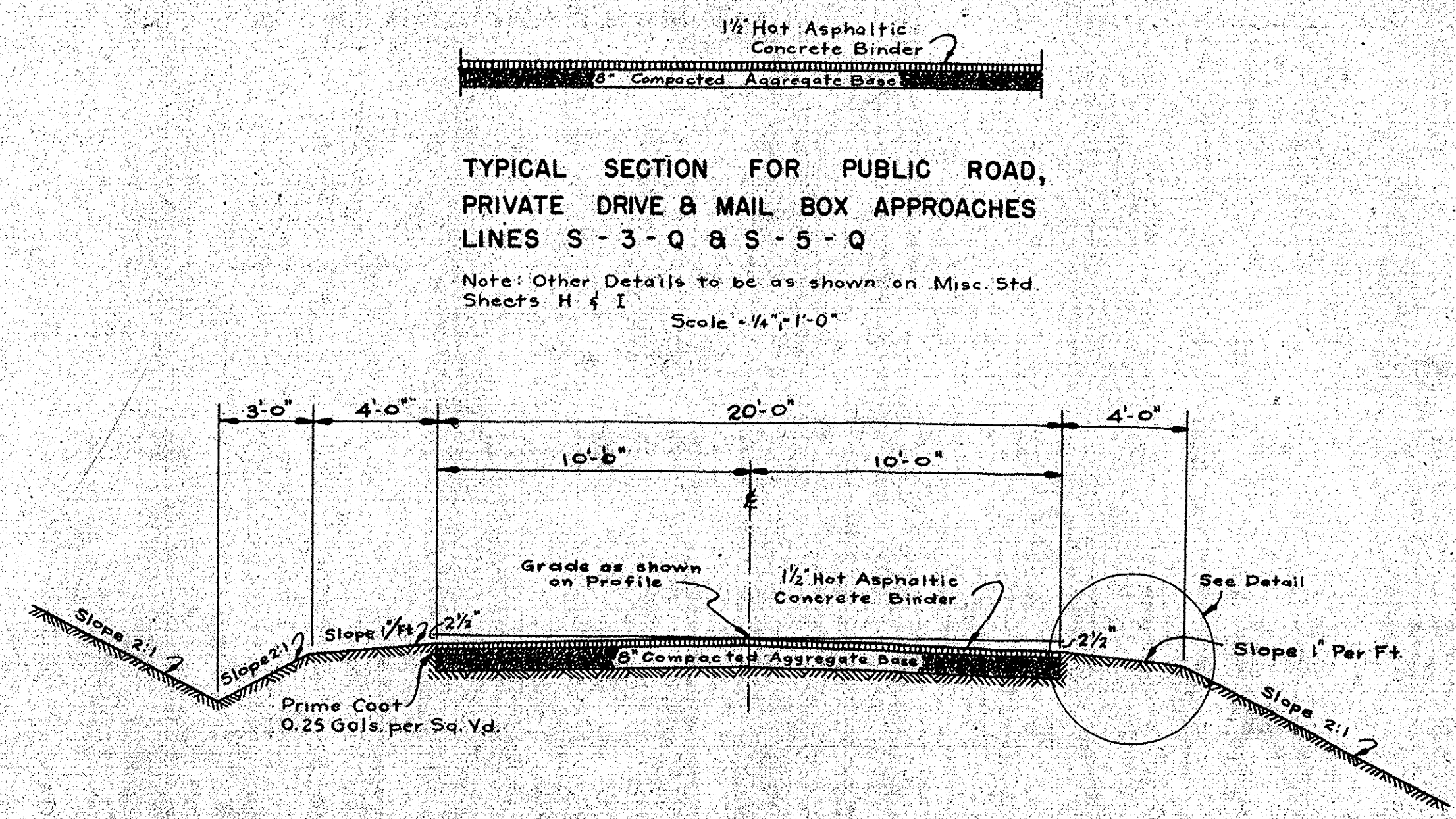
IND-65-1(11) 105A

FED. ROAD DIV. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-03-1 (11)	1957	34	26

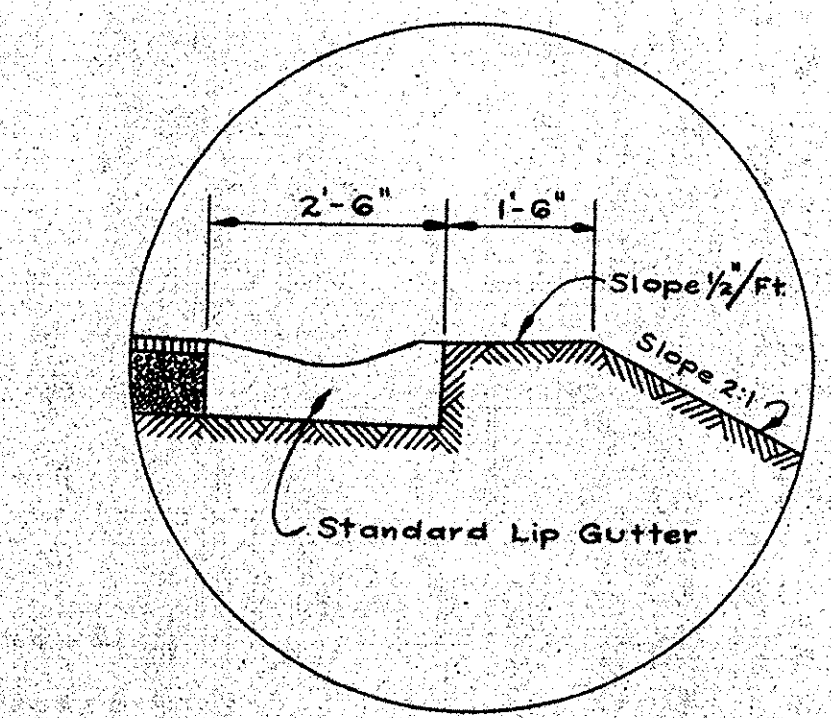


SCALE 1/4" = 1'-0"  
**TYPICAL PAVEMENT SECTION**  
 FOR SURFACED FRONTAGE ROAD PROJECT 1-03-1(17)

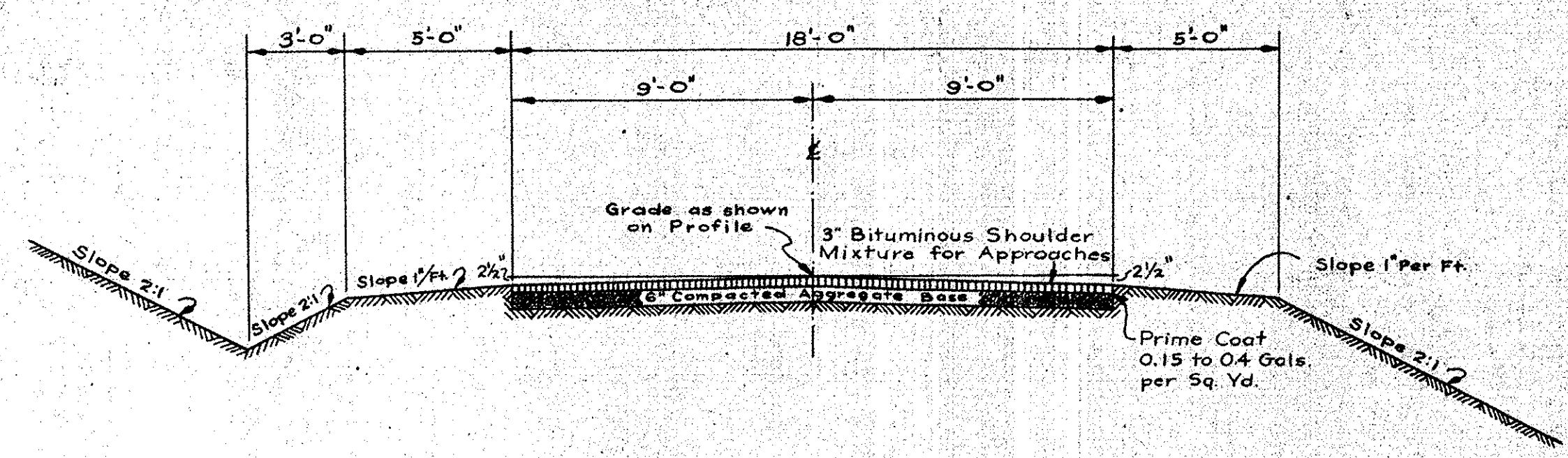
3" Bituminous Shoulder Mixture for Approaches  
 6" Compacted Aggregate Base  
 TYPICAL SECTION FOR PUBLIC ROAD, PRIVATE DRIVE & MAIL BOX APPROACHES ON SURFACED FRONTAGE ROADS.  
 Note: Other Details to be as shown on Misc. Std. Sheets H & I.  
 Scale 1/4" = 1'-0"



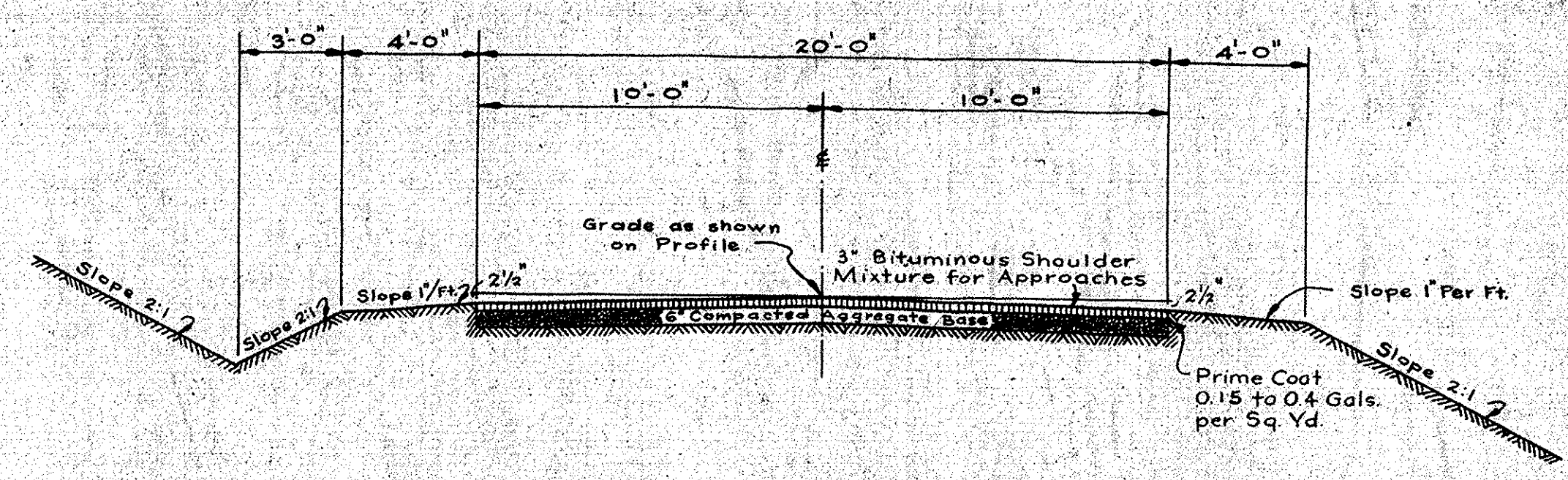
SCALE 1/4" = 1'-0"  
**TYPICAL PAVEMENT SECTION**  
 LINE S-3-Q PROJECT 1-03-1 (14)  
 LINE S-5-Q PROJECT 1-03-1 (17)



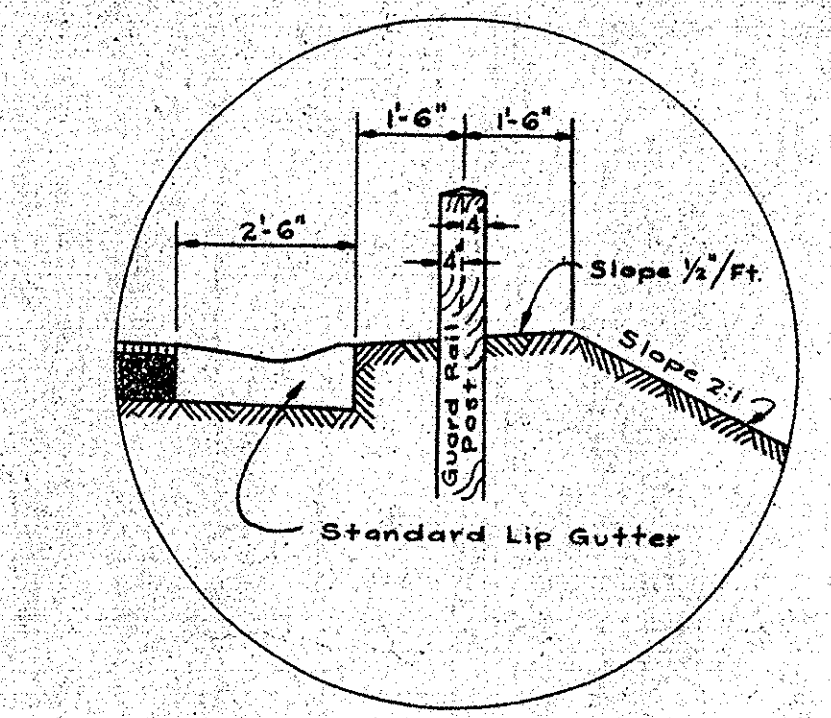
TYPICAL SHOULDER DETAIL  
 WHERE LIP GUTTER IS USED  
 SCALE 1/2" = 1'-0"



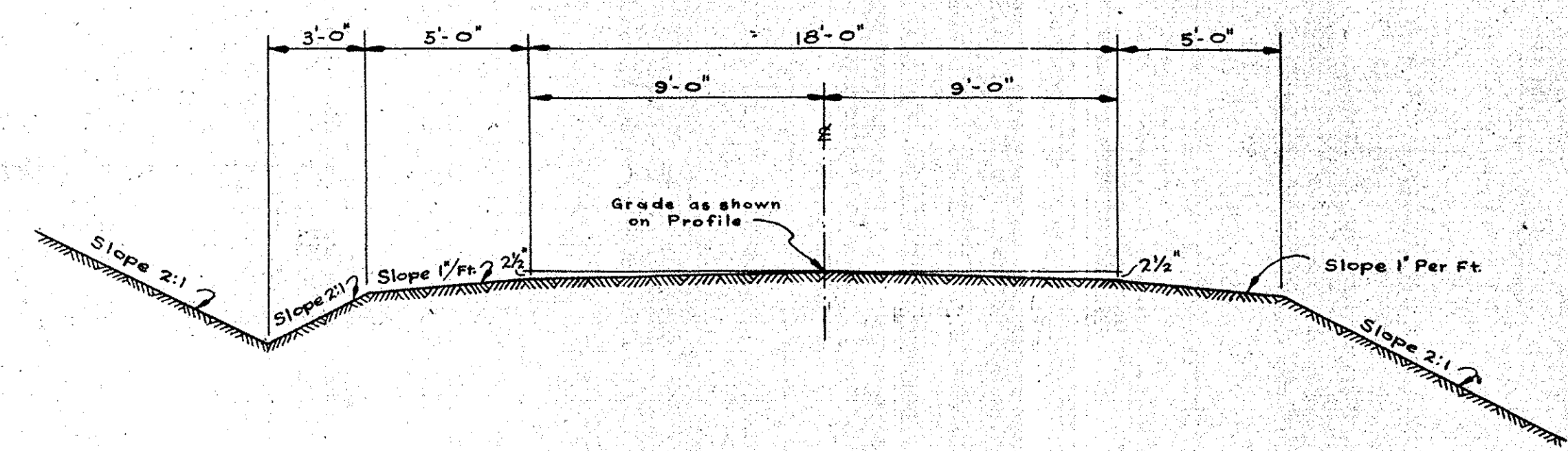
SCALE 1/4" = 1'-0"  
**TYPICAL PAVEMENT SECTION**  
 SURFACED FRONTAGE ROAD  
 PROJECT 1-03-1(11)



SCALE 1/4" = 1'-0"  
**TYPICAL PAVEMENT SECTION**  
 LINE S-1-Q PROJECT 1-03-1(11)  
 LINE S-34-Q PROJECT 1-03-1(15) & 1-03-1(15)



TYPICAL SHOULDER DETAIL  
 WHERE GUARD RAIL IS USED IN  
 CONJUNCTION WITH LIP GUTTER  
 SCALE 3/8" = 1'-0"



SCALE 1/4" = 1'-0"  
**TYPICAL PAVEMENT SECTION**  
 GRADED FRONTAGE ROAD

TYPICAL SECTION FOR PUBLIC ROAD,  
 PRIVATE DRIVE & MAIL BOX APPROACHES  
 LINES S-1-Q & S-34-Q  
 Note: Other Details to be as shown on Misc. Std. Sheets H & I.  
 Scale 1/4" = 1'-0"

# TYPICAL CROSS SECTIONS

SCALE: AS SHOWN

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
 REGISTERED PROFESSIONAL ENGINEER - STATE OF INDIANA

APPROVED \_\_\_\_\_  
 CHAIRMAN - STATE HIGHWAY DEPARTMENT OF INDIANA  
 RECOMMENDED FOR APPROVAL \_\_\_\_\_  
 APPROVED \_\_\_\_\_  
 CHIEF ENGINEER - STATE HIGHWAY DEPT. OF INDIANA  
 ENGINEER OF ROAD DESIGN - STATE HIGHWAY DEPT. - IND.

Δ 14° 16' 30" Lt  
D = 0° 45'  
T = 956.7'  
L = 1903.3  
E = 596.7

DATE: 1/27/57  
BY: J.D. [Signature]  
SURVEYED: [Signature]  
PLANNED: [Signature]  
NOTE BOOK: [Signature]  
ALIGNED CHECKED: [Signature]  
RT. OF WAY CHECKED: [Signature]

DATE: [Blank]  
BY: [Blank]  
SURVEYED: [Blank]  
PLANNED: [Blank]  
NOTE BOOK: [Blank]  
GRADES CHECKED: [Blank]  
NO. 2552-718 R.S. NOTED: [Blank]  
STRUCTURE NOTATIONS CHECKED: [Blank]

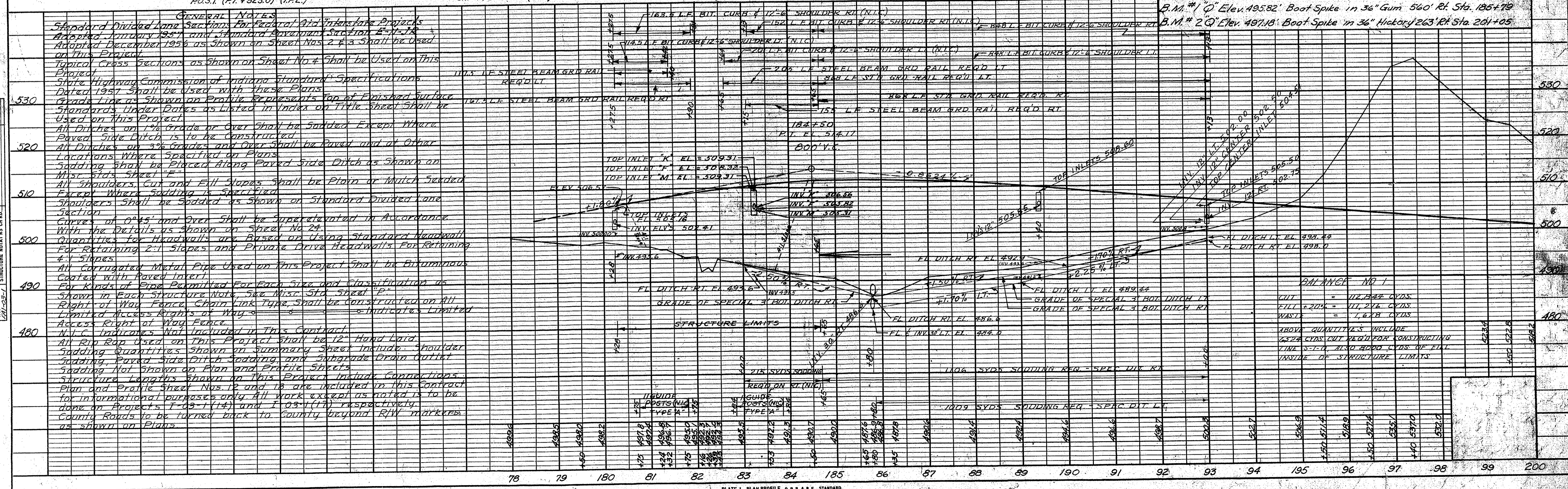
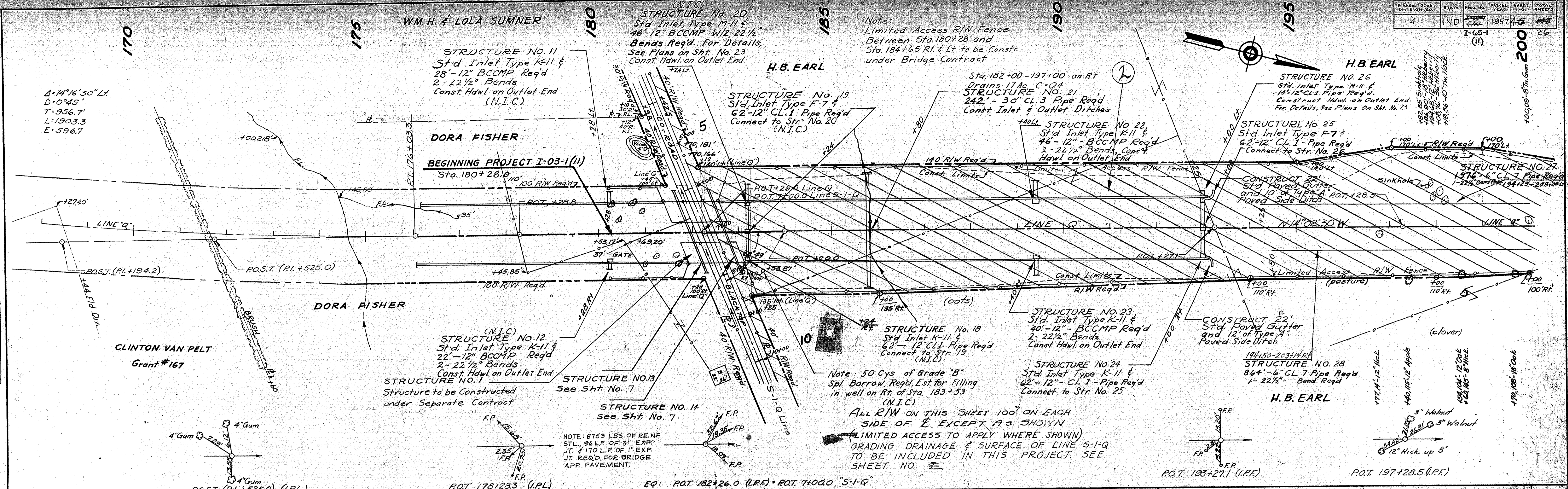


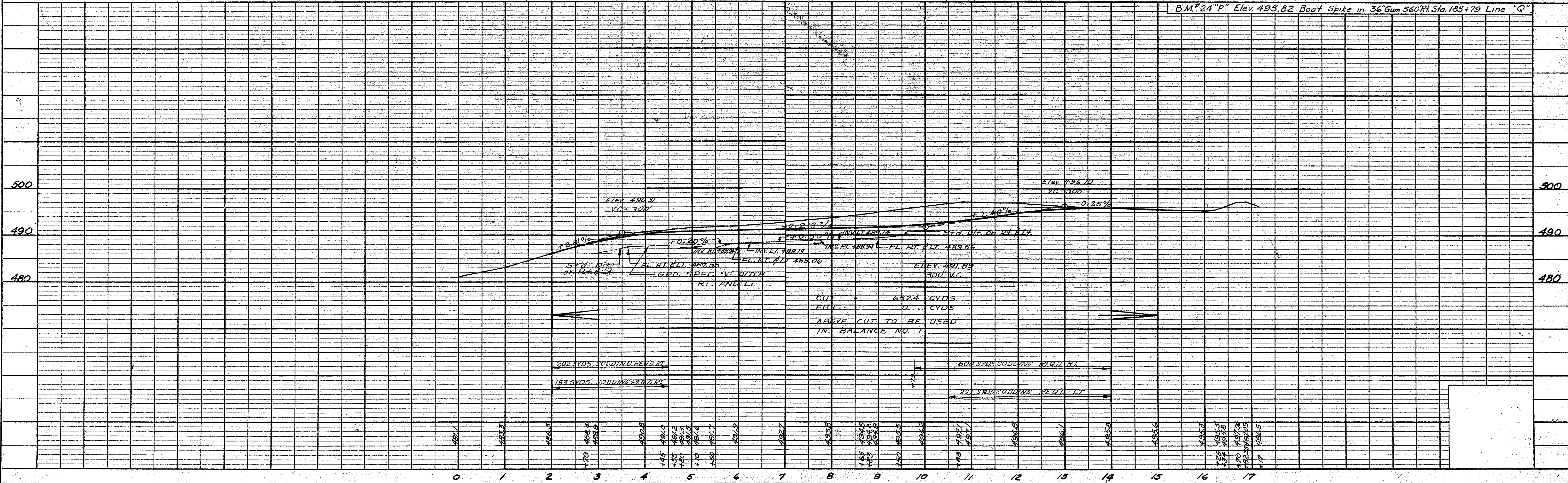
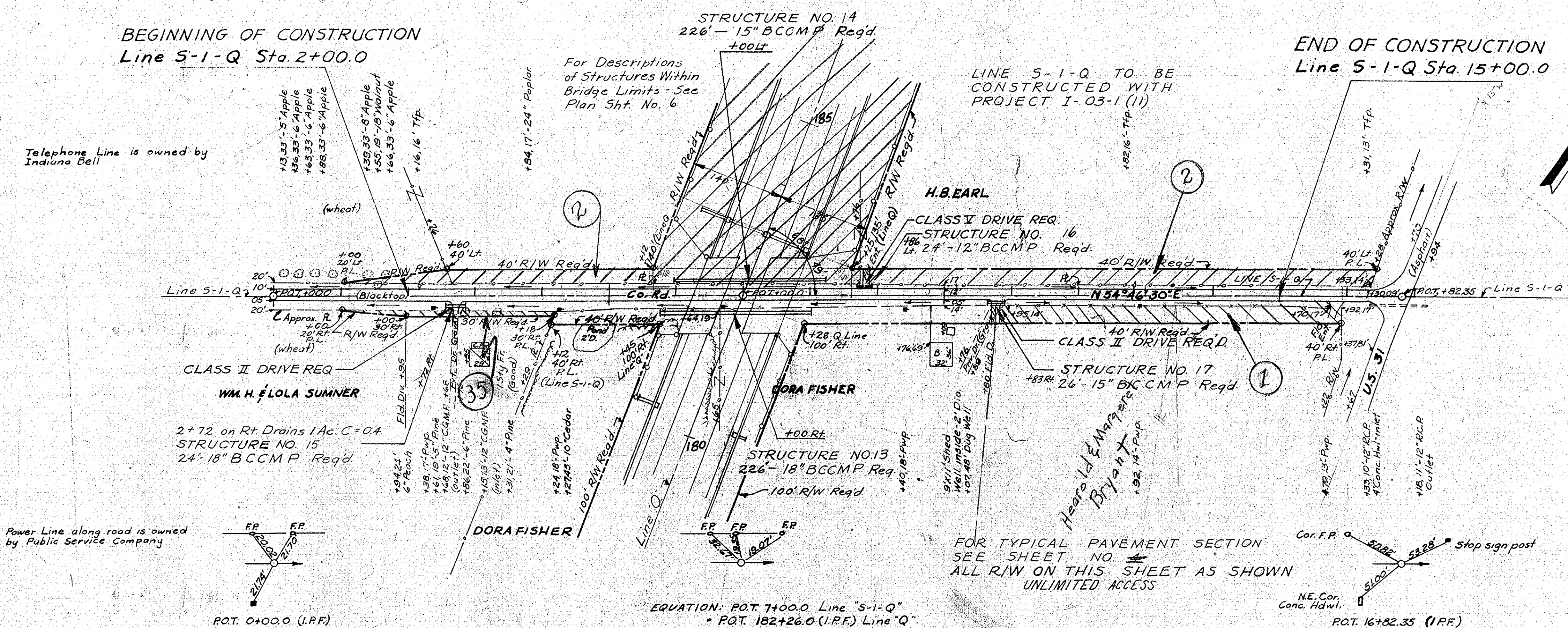
PLATE 1 - PLAN PROFILE O.P.R. & R.E. STANDARD  
THE FREDERICK POST CO., Chicago

DATE	3-27
BY	E.L. Lutz
DESIGNED	E.L. Lutz
PLANNED	E.L. Lutz
ALIGNED CHECKED	
RT. OF WAY CHECKED	
PLAN	NO. 26627
NOTE BOOK	Page 21

DATE	3-27
BY	E.L. Lutz
DESIGNED	E.L. Lutz
PLANNED	E.L. Lutz
GRADES CHECKED	
STRUCTURE NOTINGS CHKD.	
PROFILE	NO. 26627
NOTE BOOK	Page 21

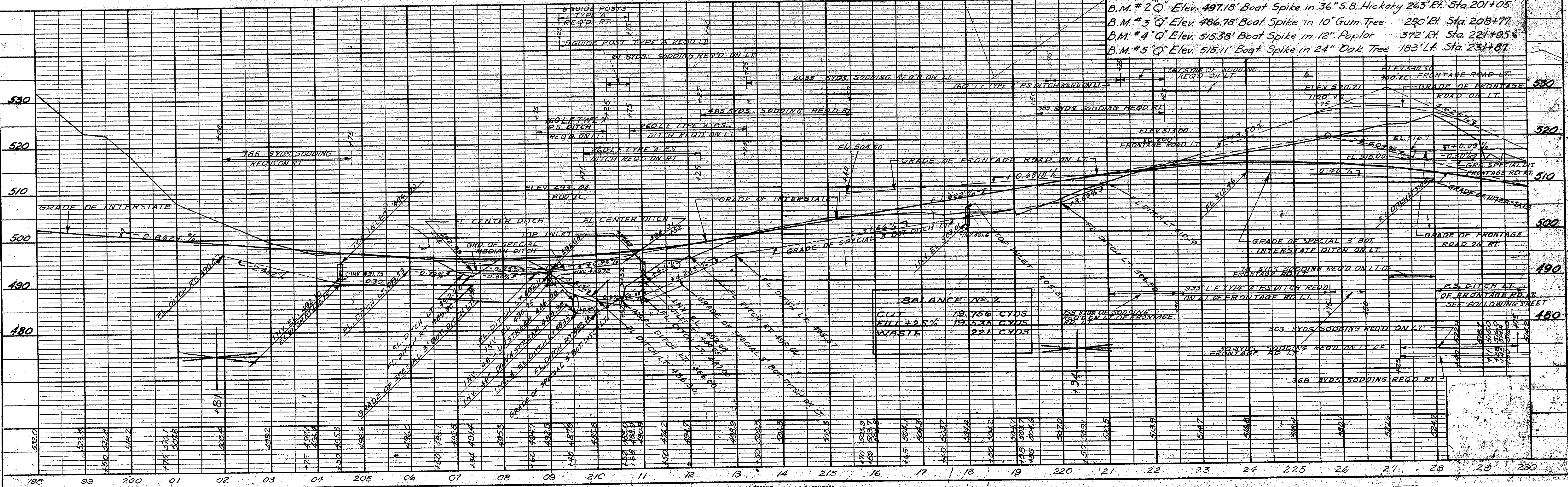
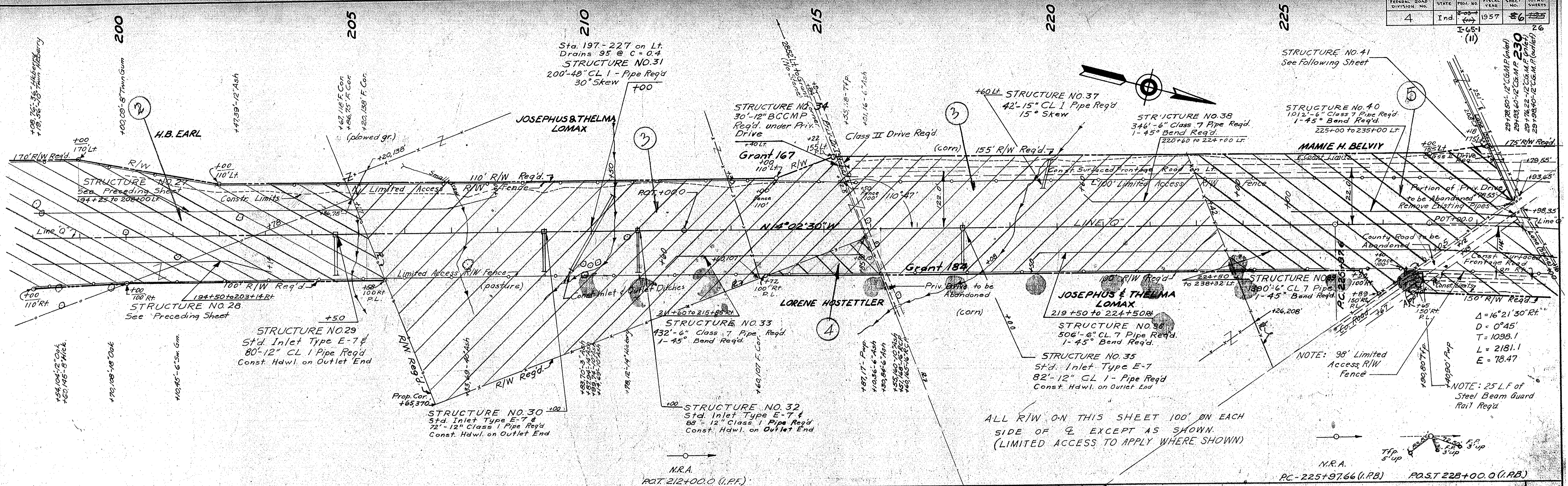
BEGINNING OF CONSTRUCTION  
Line 5-1-Q Sta. 2+00.0

END OF CONSTRUCTION  
Line 5-1-Q Sta. 15+00.0



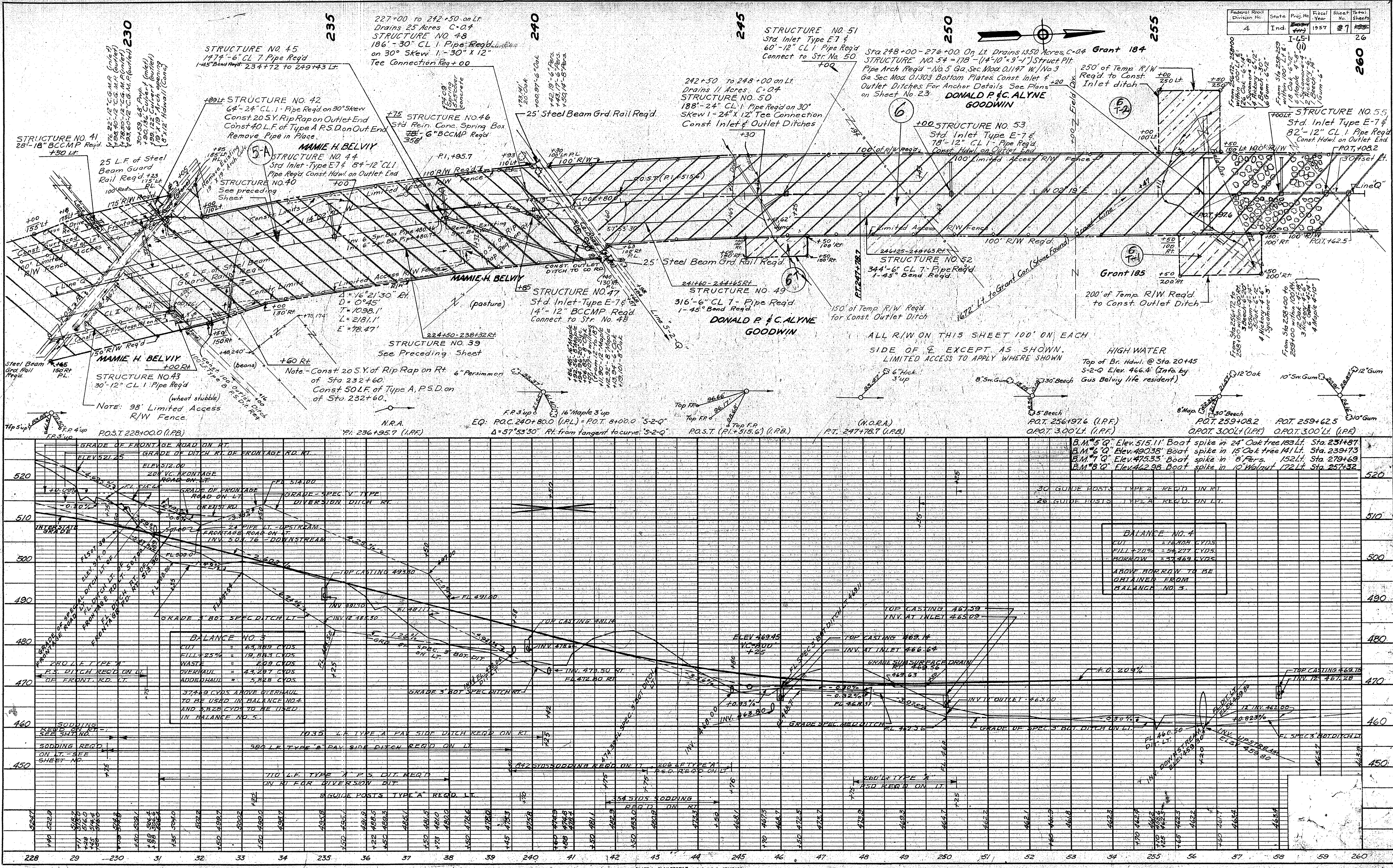
DATE 6-56  
BY V.D. D'Arcangelo  
CHECKED E.D. Luce  
SURVEYED  
NOTE BOOK ALIGNED CHECKED  
NO. 25937 RT. OF WAY CHECKED  
PLAN

DATE 6-56  
BY V.D. D'Arcangelo  
CHECKED E.D. Luce  
SURVEYED  
NOTE BOOK PLOTTED  
GRADES CHECKED  
B.M.'S. NOTED  
NO. 25937 STRUCTURE NOTATION CHYD.  
PROFILE



DATE: 12-22-56  
 BY: J.D. Donnell  
 SURVEYED: 12-22-56  
 ALIGNED: 12-22-56  
 GRADES CHECKED: 12-22-56  
 B.M.'S NOTED: 12-22-56  
 STRUCTURE NOTATIONS CHD: 12-22-56

DATE: 12-22-56  
 BY: J.D. Donnell  
 SURVEYED: 12-22-56  
 ALIGNED: 12-22-56  
 GRADES CHECKED: 12-22-56  
 B.M.'S NOTED: 12-22-56  
 STRUCTURE NOTATIONS CHD: 12-22-56



Federal Road Division No.	State	Proj. No.	Fiscal Year	Sheet No.	Total Sheets
4	IND	1957	1957	78	26

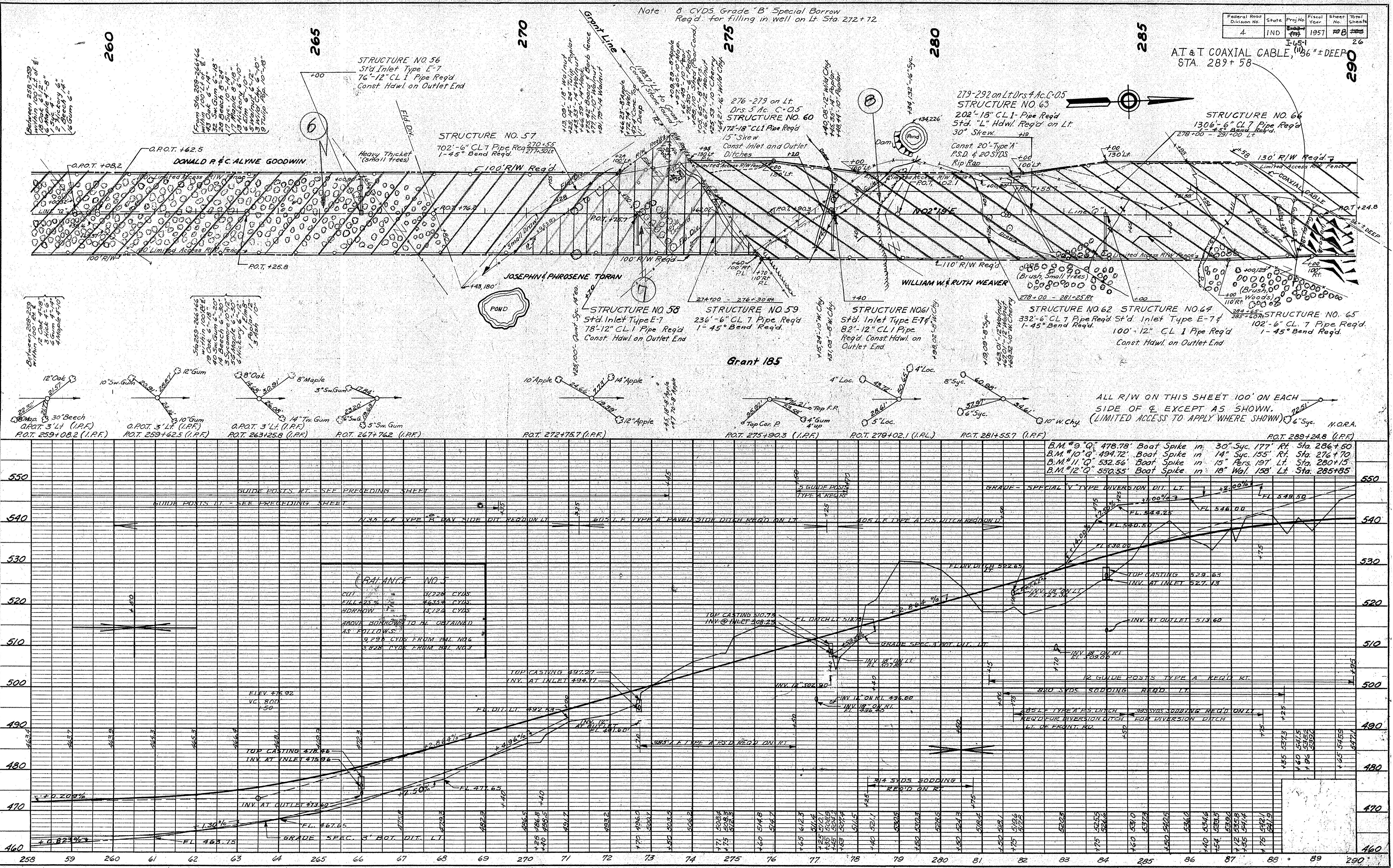
A.T. & T. COAXIAL CABLE, 1.56" ± DEEP  
STA. 289+58

DATE	BY	REVISION
7-56	V.D. McDaniel	2-56
7-57	R.D. Luce	3-57

PLAN  
NOTE BOOK  
NO. 22632Z  
STRUCTURE NOTATIONS CHFD.  
252.1652Z

DATE	BY	REVISION
7-56	V.D. McDaniel	2-56
7-57	R.D. Luce	3-57

PROFILE  
NOTE BOOK  
NO. 22632Z  
STRUCTURE NOTATIONS CHFD.  
252.1652Z



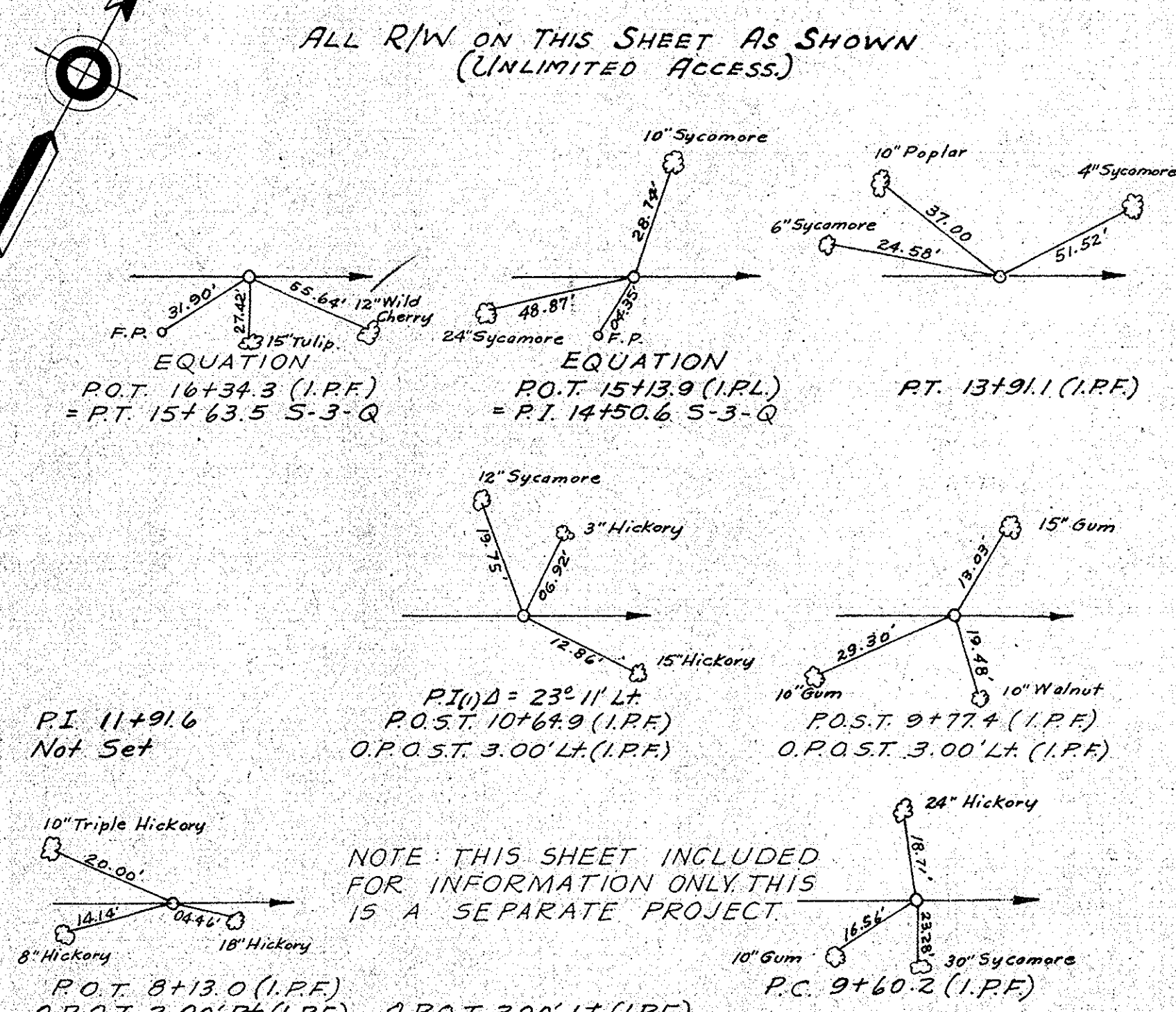
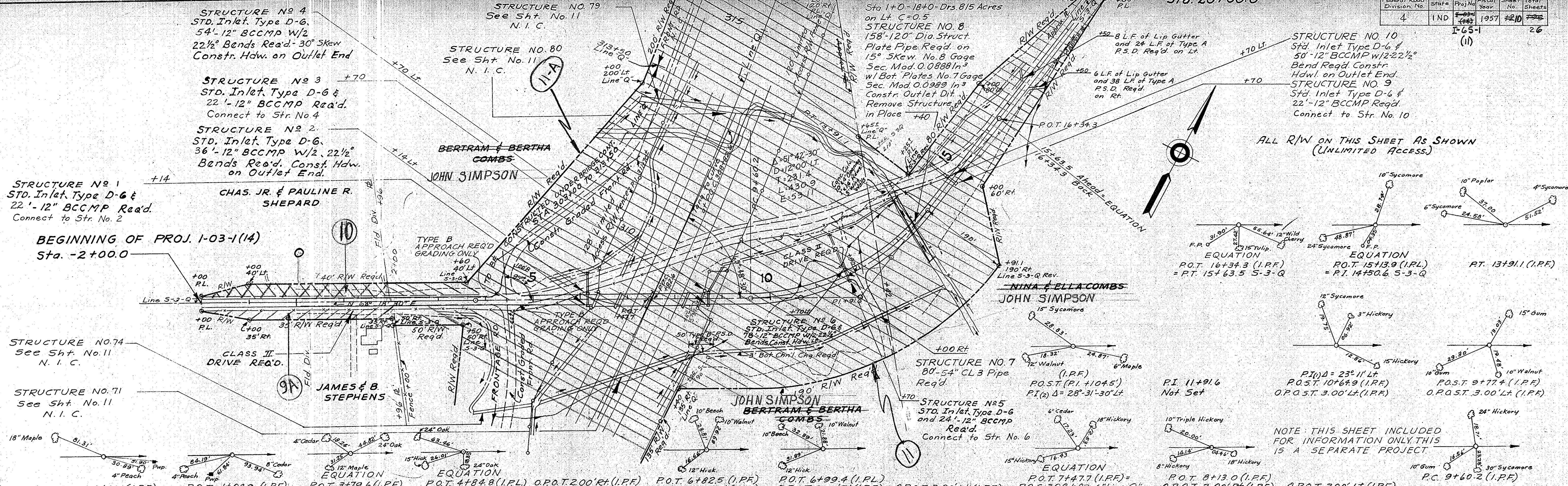




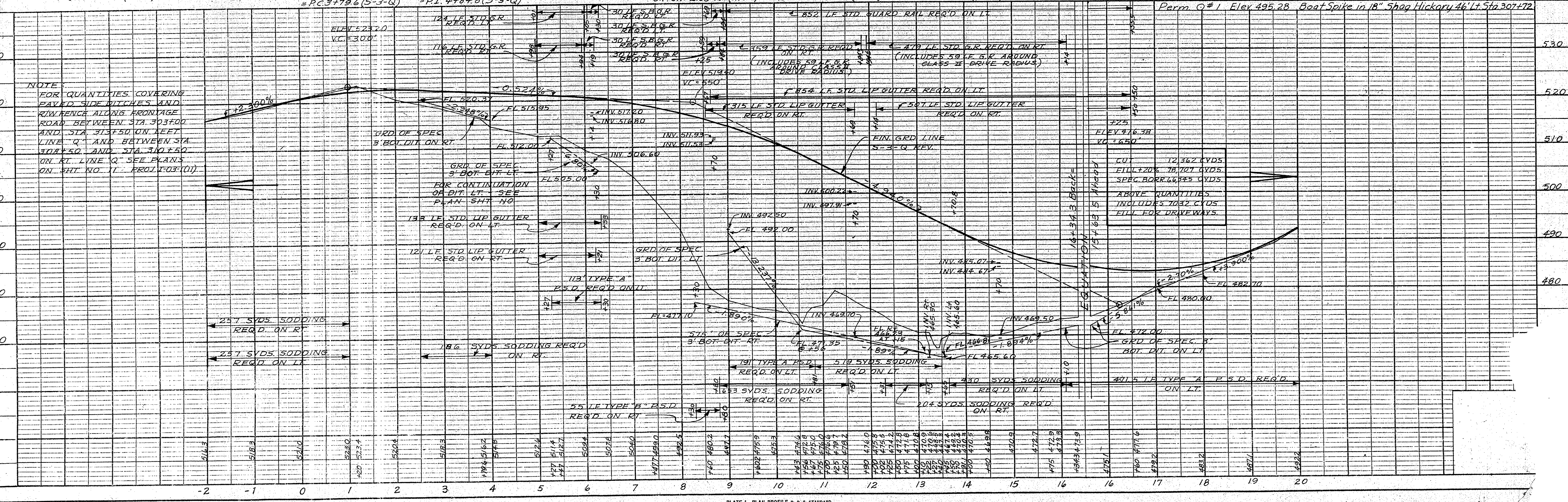
Federal Road Division No.	State	Proj. No.	Fiscal Year	Sheet No.	Total Sheets
4	IND	1957	1957	26	26

DATE	BY	REVISION
7-10-57	R.D. Luce	1-03-1(14)

DATE	BY	REVISION
7-10-57	R.D. Luce	1-03-1(14)

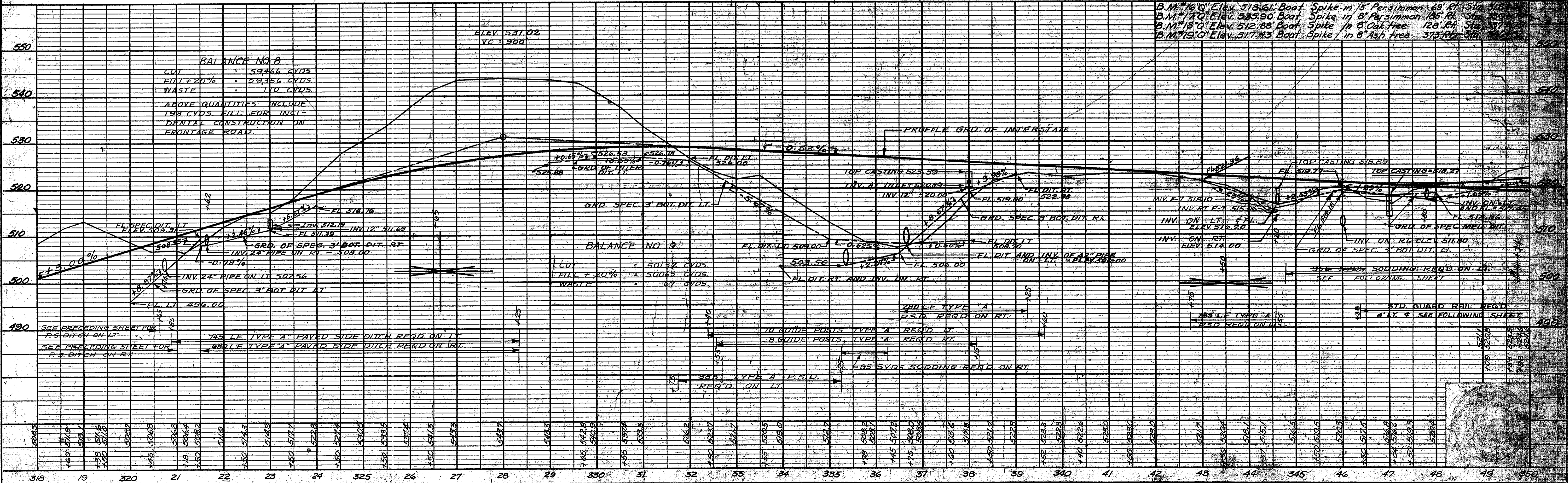
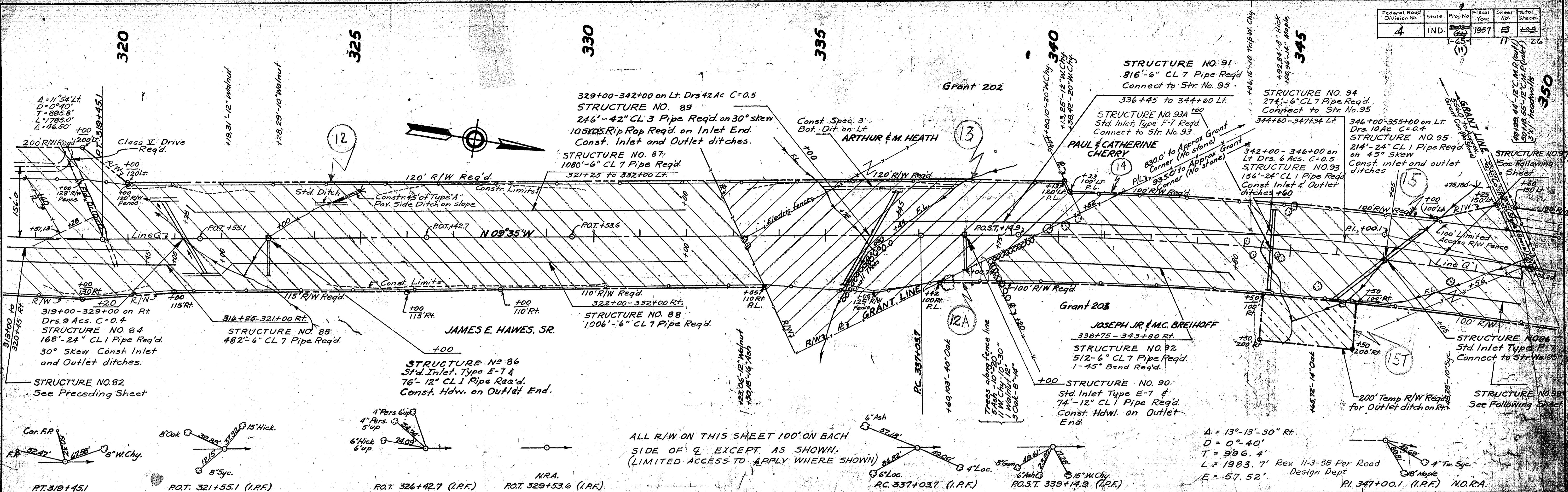


NOTE: THIS SHEET INCLUDED FOR INFORMATION ONLY. THIS IS A SEPARATE PROJECT.



DATE: 7-5-57  
 BY: W.D. Donald  
 PLOTTED: E.D. Lane  
 SURVEYED: 1-2-57  
 ALIGNED: 1-2-57  
 CHECKED: W.S. W. NOTED: 1-2-57  
 NO. 22897  
 RT. OF WAY CHECKED: 1-2-57

DATE: 7-5-57  
 BY: W.D. Donald  
 PLOTTED: E.D. Lane  
 SURVEYED: 1-2-57  
 GRADES CHECKED: W.S. W. NOTED: 1-2-57  
 NO. 22897  
 STRUCTURE NOTAS: S. CHY



BALANCE NO. 8

CUT	59,266 CYDS
FILL + 20%	29,356 CYDS
WASTE	110 CYDS

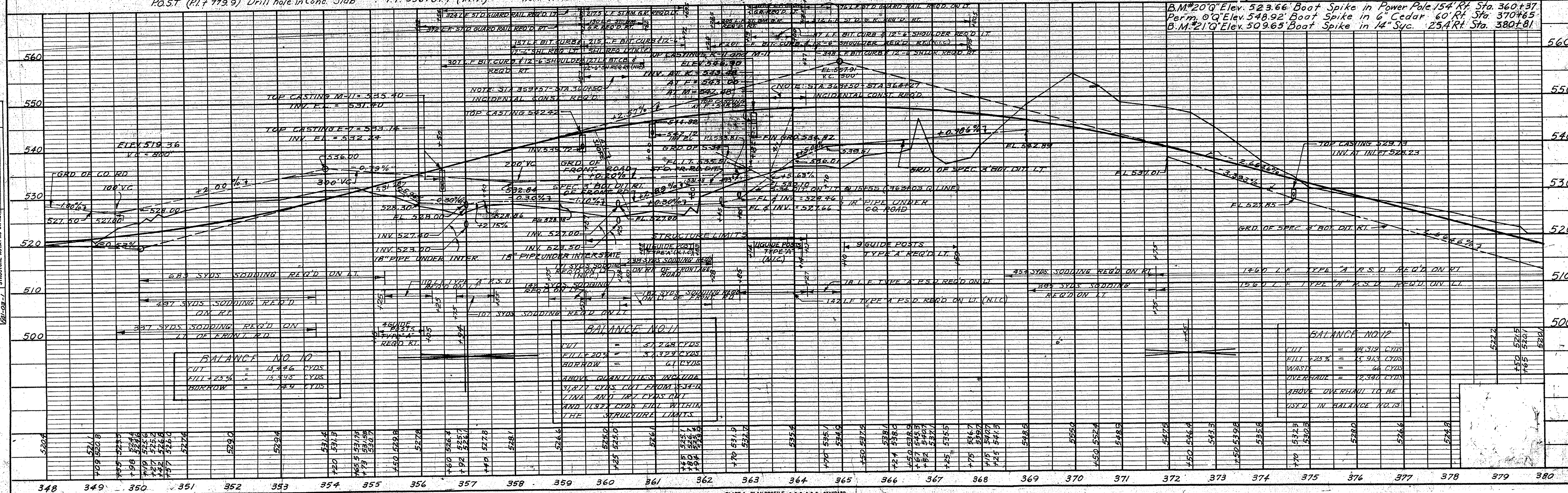
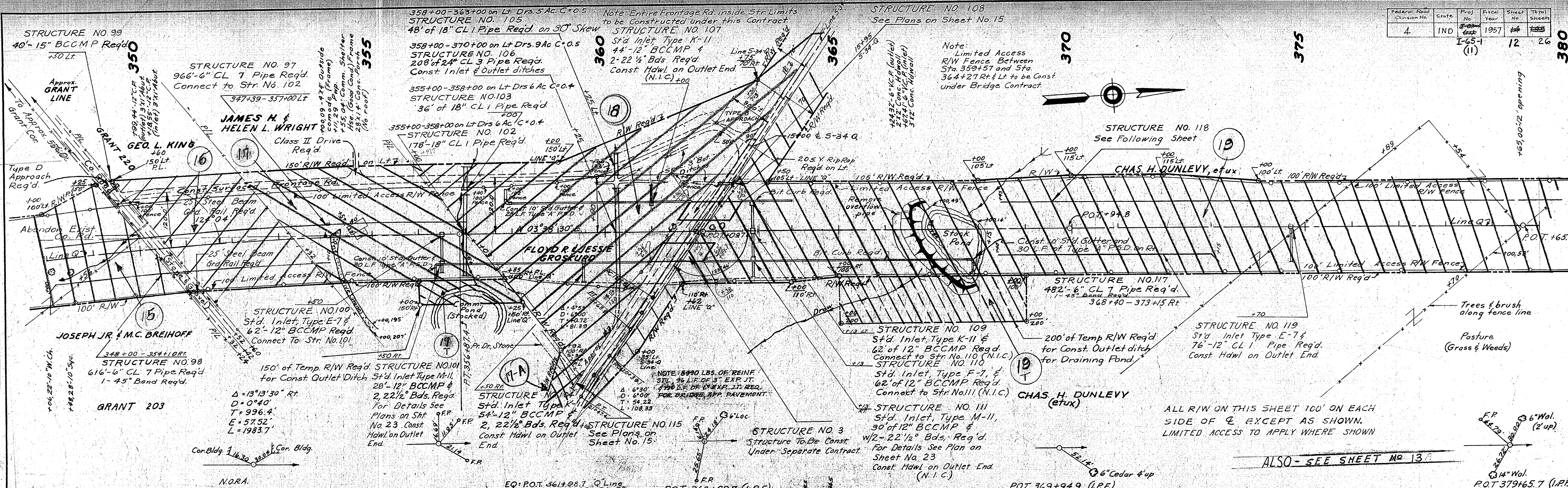
ABOVE QUANTITIES INCLUDE 124 CYDS FILL FOR INFRASTRUCTURE CONSTRUCTION ON FRONTAGE ROAD.

BALANCE NO. 9

CUT	501.22 CYDS
FILL + 20%	500.65 CYDS
WASTE	67 CYDS

DATE: 7-25-57  
 BY: V.D. McDonald  
 SURVEYED: ALIGNED  
 PLAN: NOTE BOOK GRADES CHECKED  
 NO. 2552-1  
 RT. OF WAY CHECKED  
 21-1-57

DATE: 7-25-57  
 BY: V.D. McDonald  
 SURVEYED: GRADES CHECKED  
 PROFILE: NOTE BOOK GRADES CHECKED  
 NO. 2552-1  
 STRUCTURE NOTATIONS CHKD.  
 21-1-57



**BALANCE NO. 10**

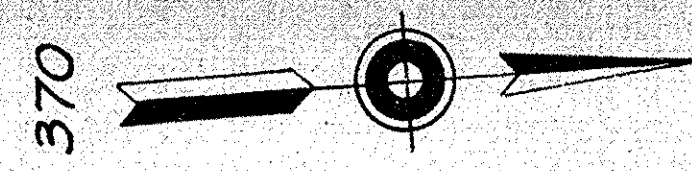
CUT	15,226 CYDS
FILL - 25%	15,393 CYDS
BORROW	724 CYDS

**BALANCE NO. 11**

CUT	37,248 CYDS
FILL 20%	37,329 CYDS
BORROW	61 CYDS

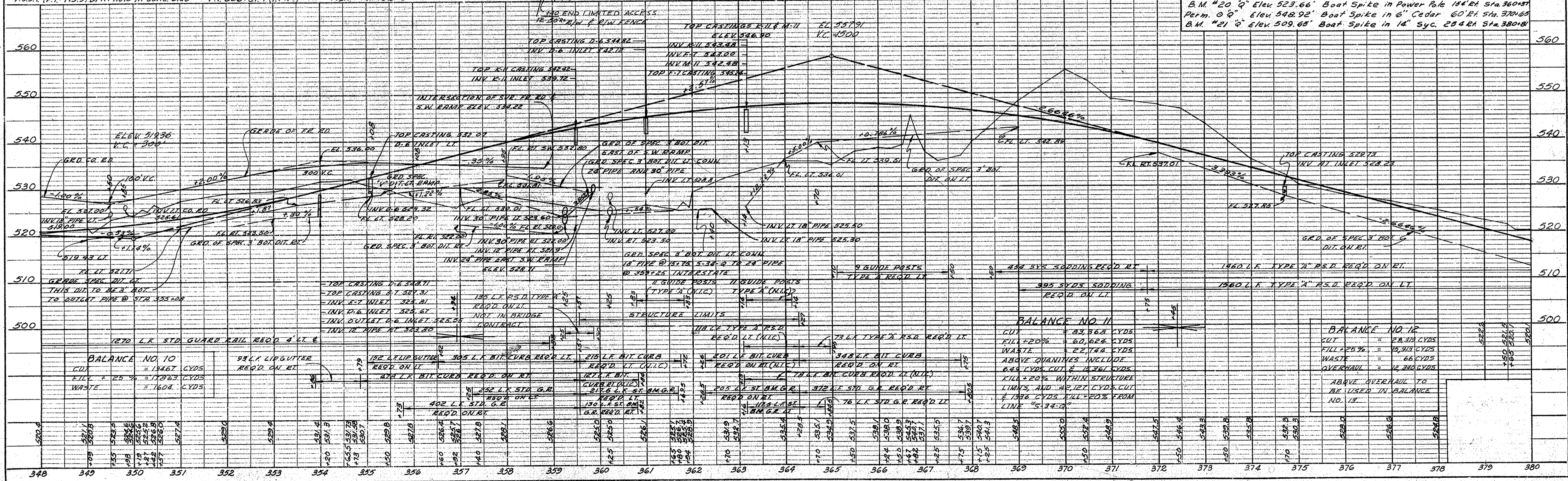
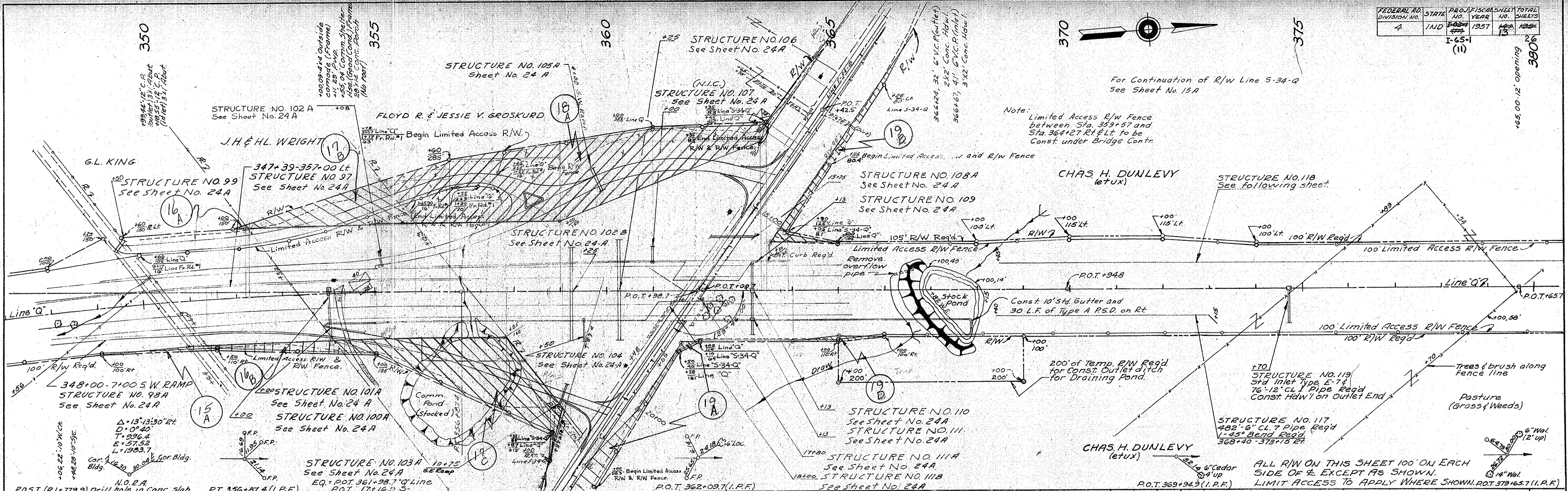
**BALANCE NO. 12**

CUT	18,319 CYDS
FILL - 25%	13,913 CYDS
WASTE	66 CYDS
OVERHAUL	12,340 CYDS



For Continuation of R/W Line 5-34-Q See Sheet No. 15A

Note: Limited Access R/W Fence between Sta. 359+67 and Sta. 364+27 R/W Ft. to be Const. under Bridge Contr.

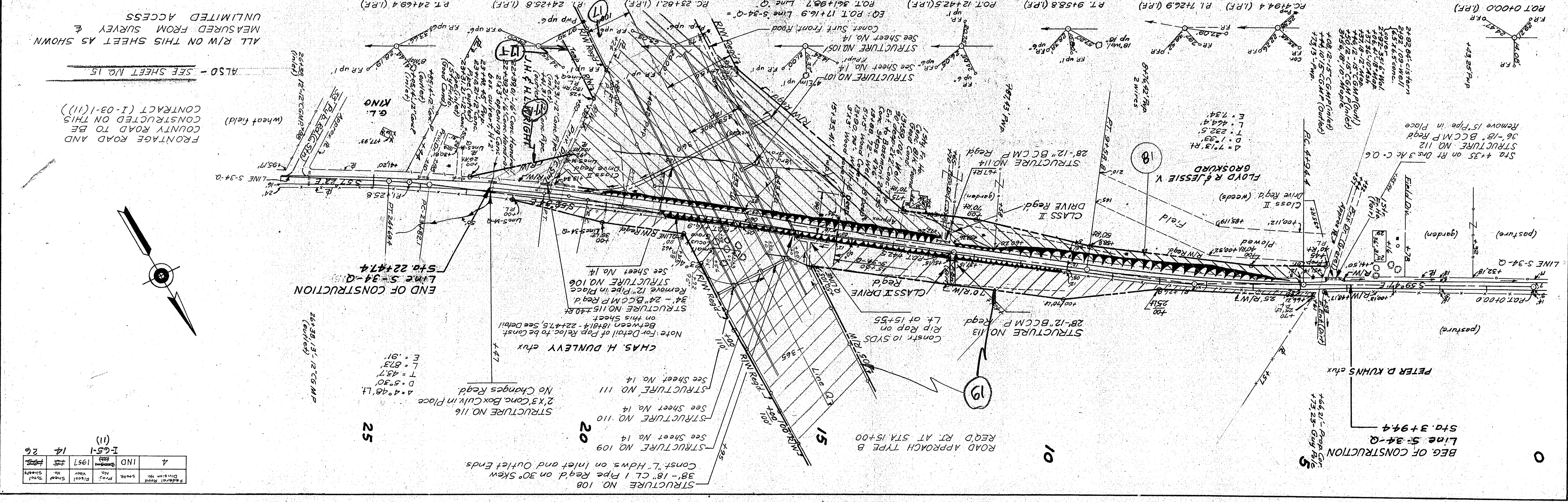
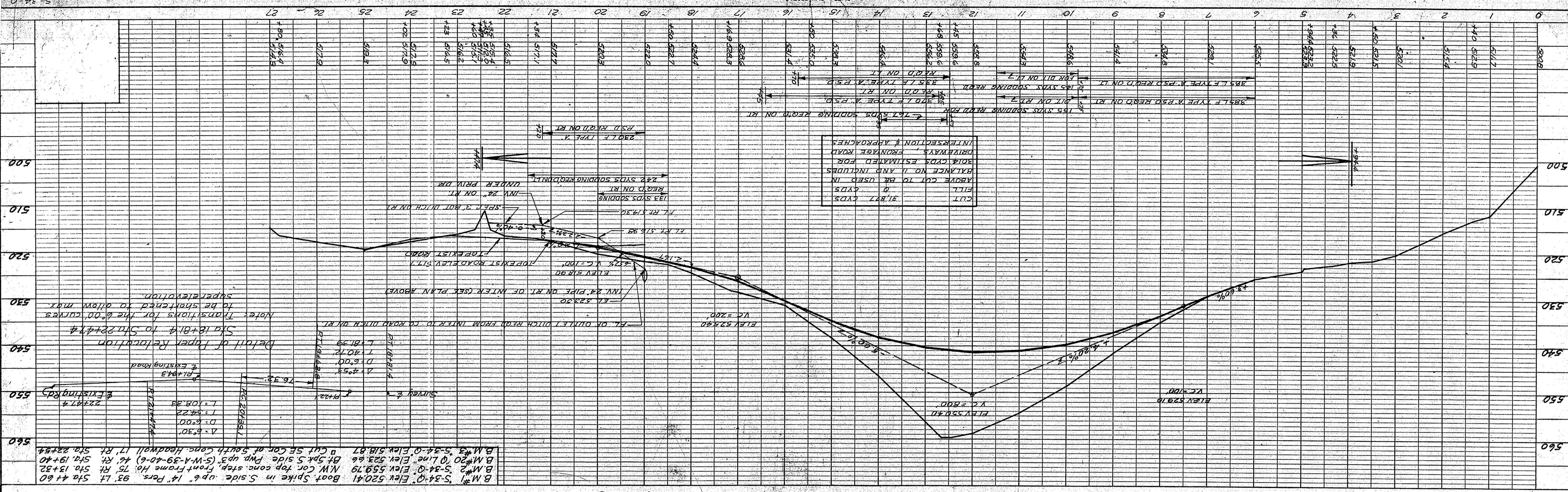


SURVEYED  
 NOTE BOOK NO. 100  
 PLOTTED  
 ALIGNMENT CHECKED  
 RT. OF WAY CHECKED

SURVEYED  
 NOTE BOOK NO. 100  
 CHANGES CHECKED  
 B.M.'S NOTED  
 STRUCTURE NOTATIONS CHD.

DATE	6-57
BY	R. G. Shaw
SURVEYED	
PLANNED	
GRADES CHECKED	
NOTED BOOK	
NO. 25242	

DATE	6-57
BY	R. G. Shaw
SURVEYED	
PLANNED	
GRADES CHECKED	
NOTED BOOK	
NO. 25242	



4	IND	1957	14	26
4	IND	1957	14	26
4	IND	1957	14	26
4	IND	1957	14	26

S-34-Q

PLATE 1 - PLAN PROFILE & P.S.D. STANDARDS





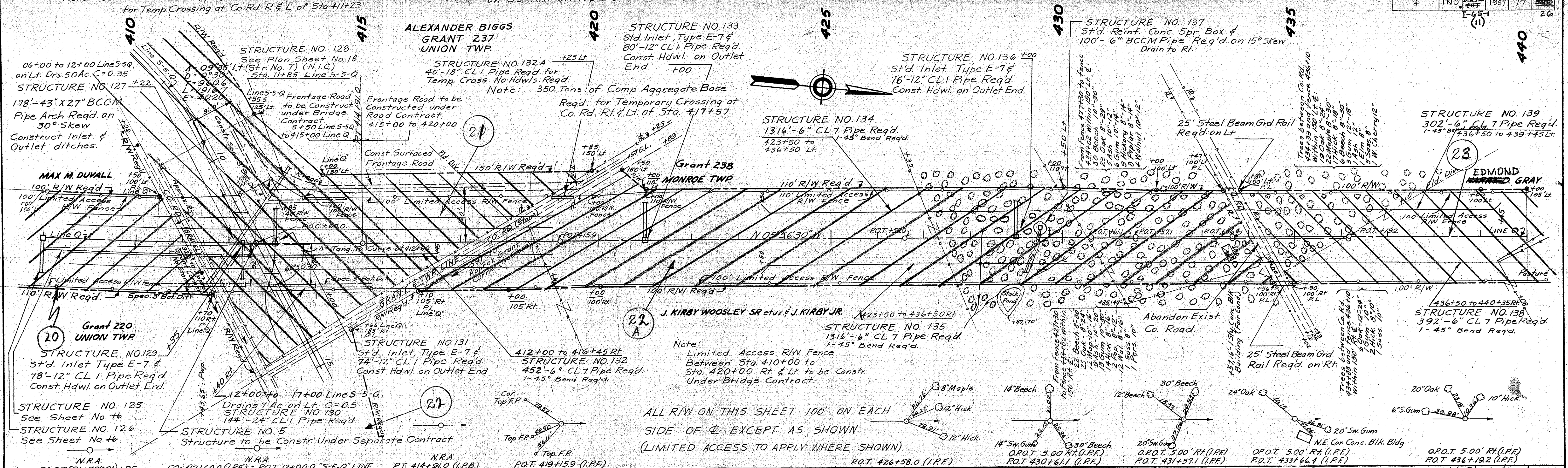


Note: -50 Tons of Comp. Aggregate Base Req'd for Temp Crossing at Co. Rd. R & L of Sta. 411+23

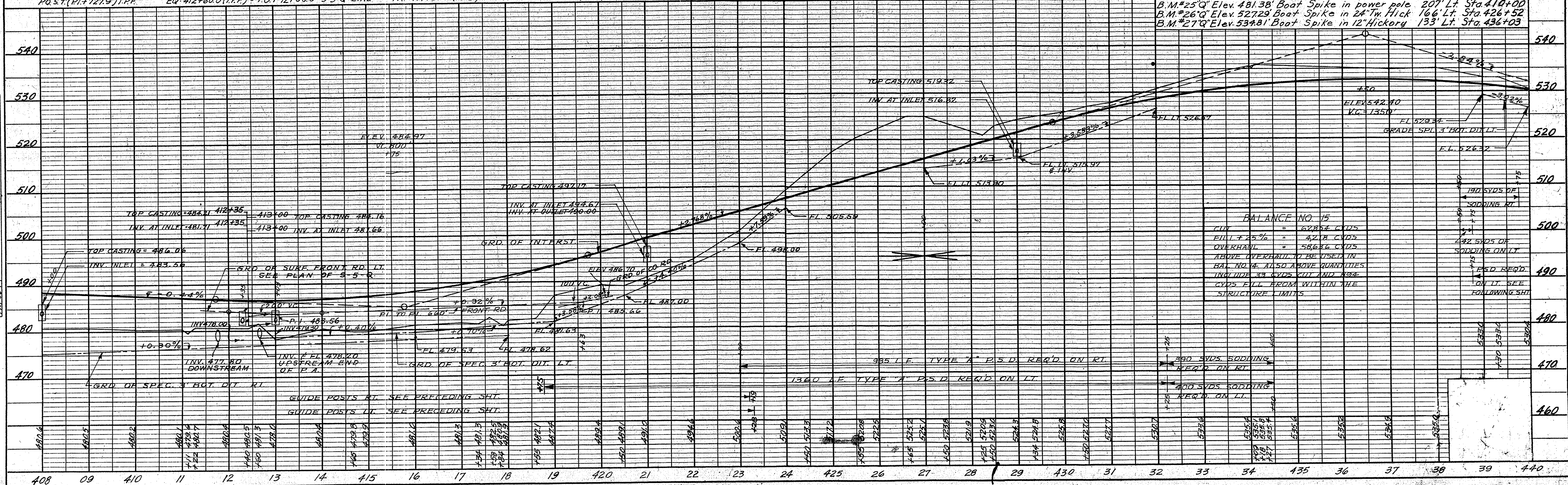
Note: 90 CYDS of Exist. Rd Mat'l. to be Salvaged on Co. Rd. on R&L of Sta. 417+57

DATE: 5-26  
BY: E.D. McDonald  
CHECKED: E.D. Luce  
PLANNED: E.D. Luce  
SURVEYED: E.D. McDonald  
NOTED: E.D. McDonald  
NOTE BOOK NO. 25297  
RT. OF WAY CHECKED: E.D. Luce  
DATE: 5-27

DATE: 8-5-56  
BY: E.D. McDonald  
CHECKED: E.D. Luce  
PLANNED: E.D. Luce  
SURVEYED: E.D. McDonald  
NOTED: E.D. McDonald  
NOTE BOOK NO. 25297  
STRUCTURE NOTATIONS CHD.



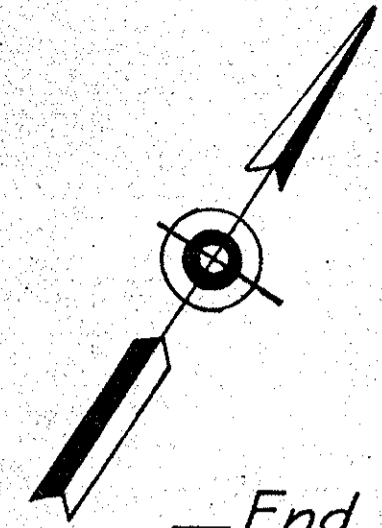
ALL R/W ON THIS SHEET 100' ON EACH SIDE OF & EXCEPT AS SHOWN. (LIMITED ACCESS TO APPLY WHERE SHOWN)



BALANCE NO. 15  
 CUT = 62,854 CYDS  
 FILL @ 25% = 42,18 CYDS  
 OVERHAUL = 58,636 CYDS  
 ABOVE OVERHAUL TO BE USED IN BAL. NO. 14 ALSO ABOVE QUANTITIES INCLUDE 35 CYDS CUT AND 194 CYDS FILL FROM WITHIN THE STRUCTURE LIMITS

Federal Road Division No.	State	Proj No.	Fiscal Year	Sheet No.	Total Sheets
4	Ind.	604	1957	18	26

I-65-1  
(11)



DATE	BY
8-26	V.D. McDonald
8-27	R.D. Lange

DATE	BY
8-26	V.D. McDonald
8-27	R.D. Lange

**Beginning of Project**  
I-03-1(17)  
Sta. 3+06.0

**End of Project I-03-1(17)**  
Sta. 22+68.3

57'x9' Steel Truss Bridge  
Wood Plank over Steel I-beams  
Stone Abutments - 12' Clear Rd. Way

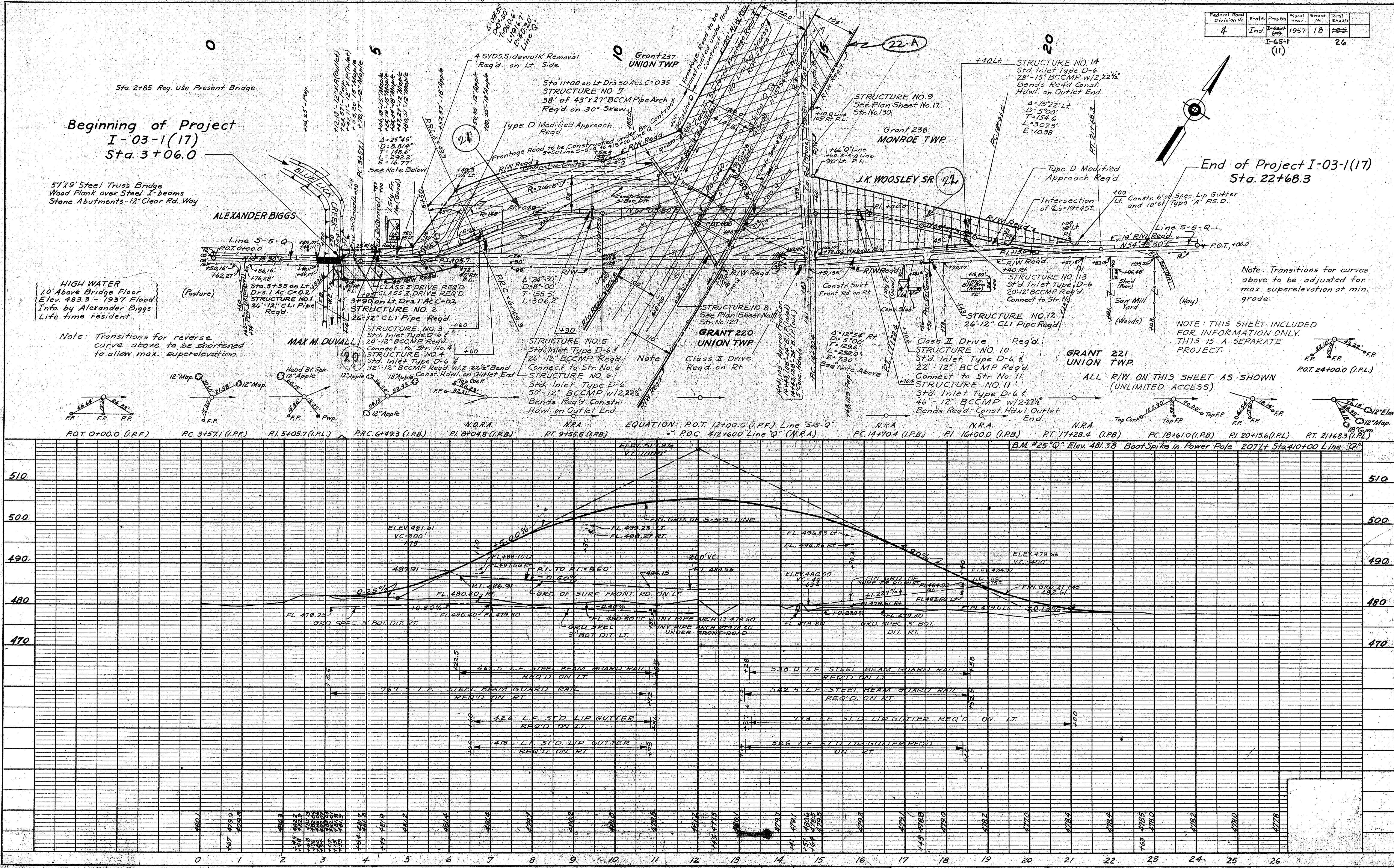
**HIGH WATER**  
10' Above Bridge Floor  
Elev 483.3 - 1937 Flood  
Info by Alexander Biggs  
Life time resident.

Note: Transitions for reverse curve above to be shortened to allow max. superelevation.

Note: Transitions for curves above to be adjusted for max. superelevation at min. grade.

NOTE: THIS SHEET INCLUDED FOR INFORMATION ONLY. THIS IS A SEPARATE PROJECT.

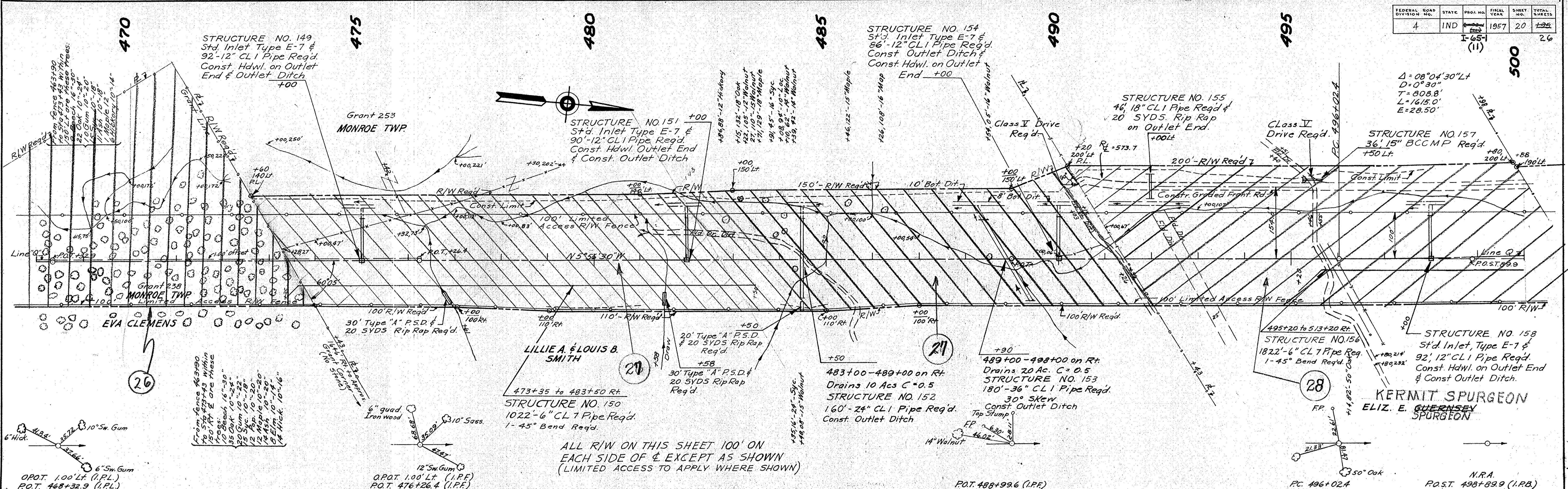
ALL R/W ON THIS SHEET AS SHOWN (UNLIMITED ACCESS)



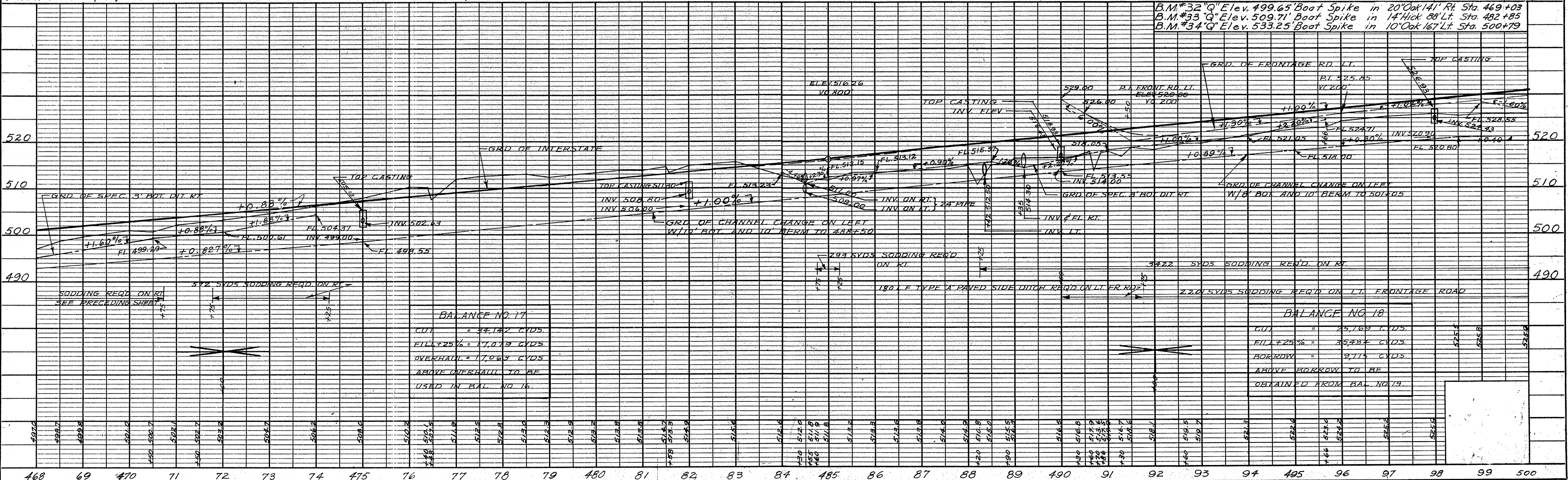


DATE 9-26  
 BY V.D. McDonald  
 P.D. Luce  
 SURVEYED  
 PLAN NOTE BOOK NO. 72594  
 ALIGNMENT CHECKED  
 RT. OF WAY CHECKED  
 12/1/57

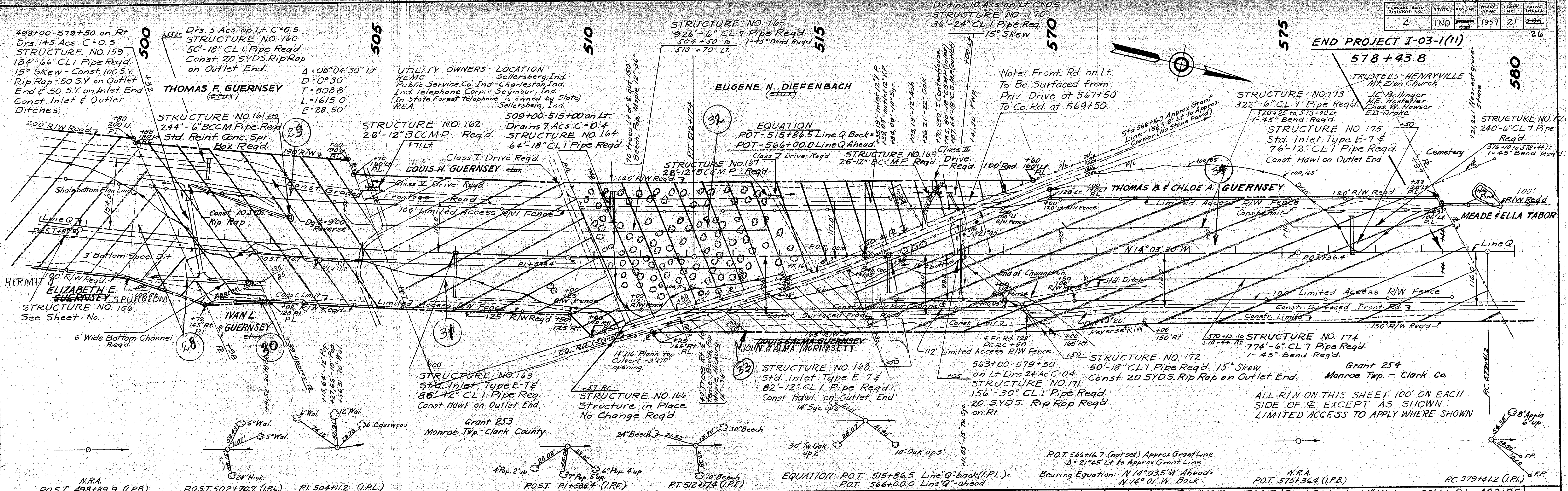
DATE 9-26  
 BY V.D. McDonald  
 P.D. Luce  
 SURVEYED  
 PROFILE NOTE BOOK NO. 72594  
 GRADES CHECKED  
 SUBSTANTIAL NOTATIONS CHECKED  
 12/1/57



ALL R/W ON THIS SHEET 100' ON EACH SIDE OF & EXCEPT AS SHOWN (LIMITED ACCESS TO APPLY WHERE SHOWN)

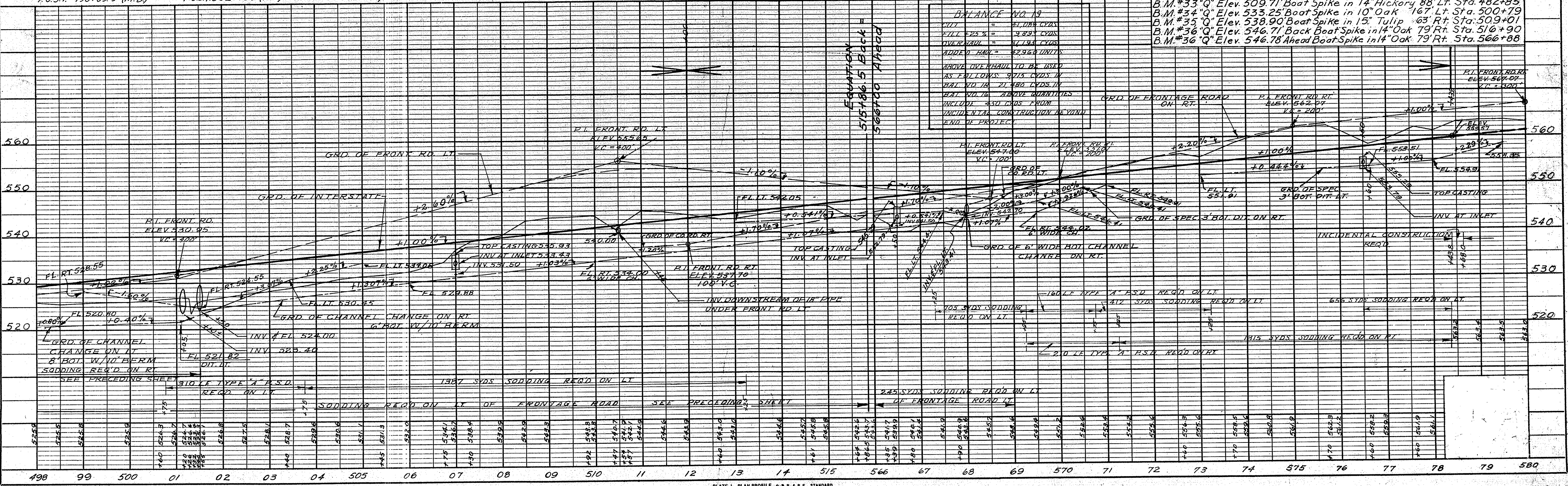


END PROJECT I-03-1(11)



DATE BY  
 9-54 V.D. McDonald  
 9-57 R.D. Luce  
 SURVEYED & CHECKED  
 PLANNED & CHECKED  
 NOTE BOOK NO. 5255 L  
 NO. 2257  
 RIT. OF WAY CHECKED

DATE BY  
 9-54 V.D. McDonald  
 9-57 R.D. Luce  
 SURVEYED & CHECKED  
 PROFILE GRADES CHECKED  
 STRUCTURE NOTATIONS CHECKED  
 NO. 5255 L  
 NO. 2257



BALANCE NO. 19

CUT	=	21,088 CYAS
FILL	=	9,893 CYAS
OVER PAUL	=	41,193 CYAS
AIDED HAY	=	22,960 UNITS

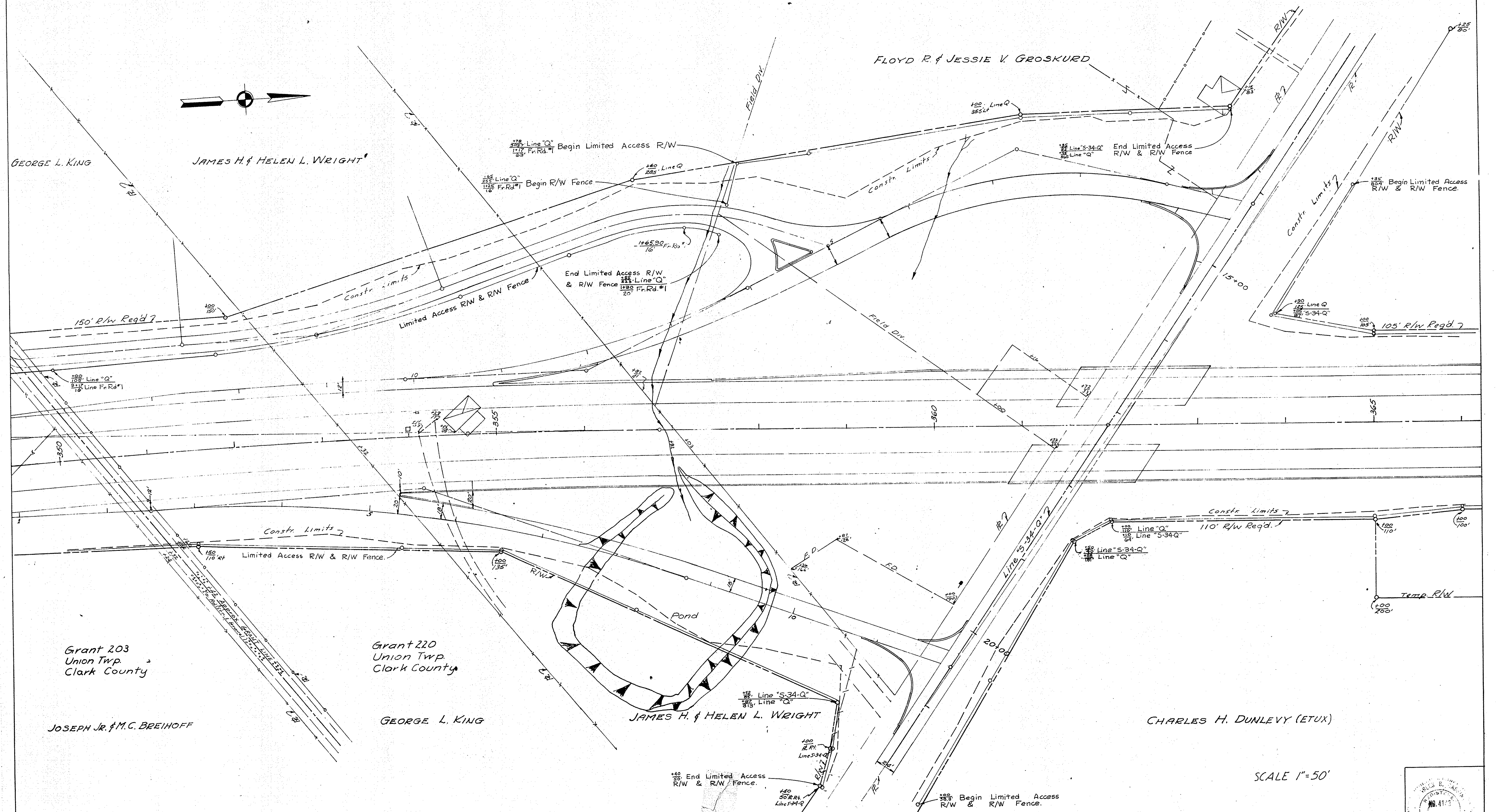
ABOVE OVERHAUL TO BE USED AS FOLLOWS: 9715 CYAS IN BAL. NO. 18, 21,480 CYAS IN BAL. NO. 16. ABOVE QUANTITIES INCLUDE 430 CYAS FROM INCIDENTAL CONSTRUCTION BEYOND END OF PROJECT.

- B.M. #33 "Q" Elev. 509.71' Boat Spike in 14" Hickory 88' Lt. Sta. 482+85
- B.M. #34 "Q" Elev. 533.25' Boat Spike in 10" Oak 167' Lt. Sta. 500+79
- B.M. #35 "Q" Elev. 538.90' Boat Spike in 15" Tulip 63' Rt. Sta. 509+01
- B.M. #36 "Q" Elev. 546.71' Boat Spike in 14" Oak 79' Rt. Sta. 516+90
- B.M. #37 "Q" Elev. 546.78' Ahead Boat Spike in 14" Oak 79' Rt. Sta. 566+88



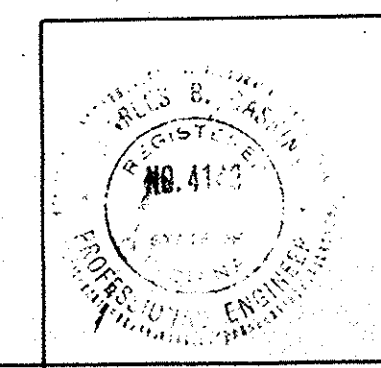
P.C.	R.O.D.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.			1957	23	26

I-65-1  
(11)



# PLAN OF RIGHT-OF-WAY MEMPHIS INTERCHANGE

SCALE 1"=50'







# STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	DESCRIPTION	SKEW	LENGTH	HEIGHT	WINGS	FLOW LINE		CONCRETE CLASS	SPECIAL BOBROW GRADE	REINFORCING STEEL	REMARKS	PLANS ON SHEET NO.	STRUCTURE NUMBER	LOCATION	DESCRIPTION	SKEW	LENGTH	HEIGHT	WINGS	FLOW LINE		CONCRETE CLASS	SPECIAL BOBROW GRADE	REINFORCING STEEL	REMARKS	
							UP STREAM ELEV.	DOWN STREAM ELEV.													UP STREAM ELEV.	DOWN STREAM ELEV.					
69	299+00	St'd. Inlet Type E-7					523.19	522.3	0.64	10		Const. Hdwl. on Outlet End.	11	134	222+50 L	6" Class 7 Pipe		1316							1-45° Bend Req'd.		
		Class 1 Pipe		88'									11	135	222+50 R	6" Class 7 Pipe		1316								1-45° Bend Req'd.	
70	305+00	St'd. Inlet Type E-7					505.19	492.96	0.64	10		Const. Hdwl. on Outlet End.	11	136	429+00	12" St'd. Inlet Type E-7		76'			516.82	515.97	0.29	10		Const. Hdwl. on Outlet End	
		Class 1 Pipe	45°	330'			480.55	477.10	3.18	600		Const. Inlet and Outlet Ditches.	11	137	429+50 L	6" St'd. Reinf. Conc. Spr. Box		15'	100'					0.64			
71	307+00	Class 3 Pipe											11	138	429+50 R	6" Class 7 Pipe		392'								1-45° Bend Req'd.	
72	308+50	St'd. Inlet Type E-7					494.39	478.40	0.64	10		Const. Hdwl. on Outlet End.	11	139	429+50 L	6" Class 7 Pipe		302'								1-45° Bend Req'd.	
		Class 1 Pipe	30°	124'								Const. Inlet Ditch (Frontage Road)	11	140	441+20	12" St'd. Inlet Type F-7		15'	158'			521.75	520.00	2.50	25		Connect to Structure No. 141
74	305+50	Class 3 Pipe											11	141	441+20	24" Class 1 Pipe		15'	158'							Const. Inlet and Outlet Ditches	
75	312+96	St'd. R.C. Spr. Box					469.50	468.50	1.64	5			11	142	441+20	6" Class 7 Pipe		382'								1-45° Bend Req'd.	
76	312+96	BCCM Pipe											11	143	441+20	6" Class 7 Pipe		506'								1-45° Bend Req'd.	
77	317+50	Class 7 Pipe											11	144	448+90	6" St'd. Inlet Type E-7		78'			501.81	499.87	0.64	10		Const. Hdwl. on Outlet End Not Included in this Contract	
78	313+00	St'd. Inlet Type E-7					487.94	483.63	0.64	10		Const. Hdwl. on Outlet End Const. Outlet Ditch.	11	145	456+00	12" Class 1 Pipe		74'			487.46	486.00	0.64	10		Const. Hdwl. on Outlet End	
		Class 1 Pipe		106'								Na.7 Gage Sec. Mod. 0.0989 in <sup>3</sup> w/ No.5 Gage Bot. Plates Sec. Mod. 0.1147 in <sup>3</sup>	11	146	459+00	12" Class 1 Pipe		74'								Const. Hdwl. on Outlet End	
79	312+65L	Corr. Structural Plate							8.32	1140		For Details of Anchors See Plan Sheet No. 23	11	147	466+25	7'0" Structural Plate		15'	166'		488.55	487.40	0.64	10		Const. Hdwl. on Outlet End	
		Pipe Arch	15°	72'			470.70	467.80	8.32	75		Na.5 Gage Sec. Mod. 0.1147 in <sup>3</sup> w/ No.3 Gage Bot. Plates Sec. Mod. 0.1303 in <sup>3</sup>	11	148	467+00	12" Class 1 Pipe		74'			495.59	494.20	0.64	10		Const. Hdwl. on Outlet End	
80	313+20	Corr. Structural Plate										For Details of Anchors See Plan Sheet No. 23	11	149	475+00	12" Class 1 Pipe		92'			502.63	499.00	0.29	10		Const. Hdwl. on Outlet End, Const. Outlet Ditch	
81	316+00	St'd. Inlet Type E-7					512.19	512.14	0.64	10		Const. Hdwl. on Outlet End.	11	150	475+00	6" Class 7 Pipe		1022'								1-45° Bend Req'd.	
		Class 1 Pipe		74'								1-45° Bend Req'd.	11	151	482+00	12" Class 1 Pipe		90'			508.80	506.00	0.29	10		Const. Hdwl. on Outlet End, Const. Outlet Ditch	
82	315+00	Class 7 Pipe										1-45° Bend Req'd.	11	152	484+50	24" Class 1 Pipe		160'			511.00	509.00	1.24	30		Const. Outlet Ditch	
83	316+00	Class 7 Pipe										1-45° Bend Req'd.	13	153	488+90	36" Class 1 Pipe		30'	180'		514.30	512.50	3.14	65		Const. Outlet Ditch	
84	321+20	Class 1 Pipe	30°	168'			508.00	502.56	2.50	30		Const. Inlet and Outlet Ditches	13	154	490+00	12" Class 1 Pipe		86'			516.43	514.00	0.29	10		Const. Hdwl. on Outlet End, Const. Outlet Ditch	
85	322+00	Class 7 Pipe										1-45° Bend Req'd.	13	155	492+00	18" Class 1 Pipe		46'			520.50	516.00	0.80	5		(Frontage Road)	
86	323+00	St'd. Inlet Type E-7					512.19	511.69	0.29	10		Const. Hdwl. on Outlet End.	13	156	495+00	6" Class 7 Pipe		1822'								1-45° Bend Req'd.	
		Class 1 Pipe		76'								1-45° Bend Req'd.	13	157	495+50L	15" BCCM Pipe		36'								(Frontage Road)	
87	321+50	Class 7 Pipe										1-45° Bend Req'd.	13	158	498+00	12" Class 1 Pipe		92'			524.43	520.90	0.29	10		Const. Hdwl. on Outlet End, Const. Outlet Ditch	
88	322+00	Class 7 Pipe										1-45° Bend Req'd.	13	159	501+32	66" Class 1 Pipe		15'	184'		524.00	523.40	3.92	95		Const. Inlet and Outlet Ditches	
89	336+00	Class 3 Pipe	30°	246'			508.00	503.50	2.50	160		Const. Inlet and Outlet Ditches. Fill = 18'	13	160	501+55L	18" Class 1 Pipe		150'			529.20	524.00	0.80				
90	338+00	St'd. Inlet Type E-7					520.89	520.00	0.64	10		Const. Hdwl. on Outlet End.	13	161	503+40L	6" St'd. Reinf. Conc. Spr. Box		244'									
		Class 1 Pipe		76'								Connect to Structure No. 93	13	162	505+71L	12" BCCM Pipe		26'									Const. Hdwl. on Outlet End, Const. Outlet Ditch
91	324+00	Class 7 Pipe										1-45° Bend Req'd.	13	163	507+00	12" Class 1 Pipe		86'			533.43	531.50	0.29	10		(Frontage Road)	
92	325+00	Class 7 Pipe										1-45° Bend Req'd.	13	164	510+48L	18" Class 1 Pipe		64'			548.00	540.00	2.29	5		Const. Hdwl. on Outlet End	
93	344+60	Class 1 Pipe					516.20	514.00	2.50	30		Const. Inlet and Outlet Ditches	13	165	515+00	6" Class 7 Pipe		926'									1-45° Bend Req'd.
94	347+00	Class 7 Pipe										1-45° Bend Req'd.	13	166	510+57R	3x10" Plank Top Culvert		28'									Structure in Place No Change Req'd.
95	347+05	Class 1 Pipe	45°	214'			517.45	511.80	2.50	30		Connect to Structure No. 95	13	167	514+00L	12" BCCM Pipe											
96	347+05	St'd. Inlet Type F-7										Connect to Structure No. 95	13	168	516+50	12" St'd. Inlet Type E-7		82'			542.79	541.50	0.29	10		Const. Hdwl. on Outlet End.	
97	347+05	Class 7 Pipe										Connect to Structure No. 102	13	169	517+50L	12" BCCM Pipe		26'									
98	347+05	Class 7 Pipe										1-45° Bend Req'd.	13	170	518+00L	24" Class 1 Pipe		15'	36'		543.70	543.46	3.75	5			
99	349+50L	BCCM Pipe							0.69			1-45° Bend Req'd.	14	171	518+10	30" Class 1 Pipe		156'			543.41	542.70	2.49	65			
100	356+50	St'd. Inlet Type E-7										1-45° Bend Req'd.	14	172	516+50R	18" Class 1 Pipe		15'	50'		544.40	544.20	2.29	5			
		BCCM Pipe		62'			532.84	531.40		10		Connect to Structure No. 101	14	173	517+50	6" Class 7 Pipe		322'									1-45° Bend Req'd.
101	356+50R	St'd. Inlet Type M-II										Connect to Structure No. 101	14	174	517+50	6" Class 7 Pipe		774'									1-45° Bend Req'd.
		BCCM Pipe		28'			531.40	525.80	0.64			For Details See Plans on Sheet No. 23	14	175	516+50	12" Class 1 Pipe		82'			553.79	553.49	0.29	10		Const. Hdwl. on Outlet End	
102	357+00	Class 1 Pipe					527.10	523.00	2.29	25		2-22 1/2° Bends Req'd. Const. Hdwl. on Outlet End	14	176	514+00L	12" BCCM Pipe											
103	357+00L	Class 1 Pipe					536.80	529.00	2.29	5		Const. Inlet and Outlet Ditches	14														
104	358+50L	St'd. Inlet Type K-II										2-22 1/2° Bends Req'd. Const. Hdwl. on Outlet End.	14														
		BCCM Pipe		54'			539.72	521.90	0.64			Not Included in this Contract	14														
105	360+00	Class 1 Pipe	30°	48'			528.50	528.00	2.29			2-22 1/2° Bends Req'd. Const. Hdwl. on Outlet End	14														
106	360+25	Class 3 Pipe					527.00	523.50	3.75	25		Not Included in this Contract	14														
107	361+00L	St'd. Inlet Type K-II					542.12	528.80	0.64			St'd. L-Type Hdwl. on Inlet and Outlet End.	14														
		BCCM Pipe		44'								Not Included in this Contract	14														
108	363+00	Class 1 Pipe	30°	38'			528.48	527.66	0.91	5		Connect to Structure No. 110	14														
109	363+13L	St'd. Inlet Type K-II										Not Included in this Contract	14														
		BCCM Pipe		62'			543.48	543.00				Connect to Structure No. 111	14														
110	363+13	St'd. Inlet Type F-7					543.00	542.48		15		Connect to Structure No. 111	14														
		BCCM Pipe		62'								2-22 1/2° Bends Req'd. Const. Hdwl. on Outlet End.	14														

GRADING		
ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS.	130.121
SOLID ROCK EXCAVATION	CYS.	
SPECIAL BORROW	CYS.	
OVERHAUL	CYS.	
ADDED HAUL	UNITS	
PEAT EXCAVATION	CYS.	
SURCHARGE 4'	LFT.	
SURCHARGE 4'-8'	LFT.	
SURCHARGE 8'-12'	LFT.	
MACHINE OPERATION	HRS.	
MACHINE AVAILABILITY	HRS.	
DYNAMITE	LBS.	
TEST HOLES	LFT.	
GASED DYNAMITE HOLES	LFT.	
GRADE 10" SPECIAL BORROW	CYS.	1365
TOP SOIL	CYS.	
PAVEMENT REMOVAL	SYS.	
SALVAGED PAVEMENT	SYS.	
PAVEMENT SURFACE REMOVAL	SYS.	
BREAKING PAVEMENT	SYS.	
CURB REMOVAL	LFT.	
CENTER CURB REMOVAL	LFT.	
COMB. CURB & GUTTER REMOVAL	LFT.	
GUTTER REMOVAL	LFT.	
GUTTER REMOVAL	LFT.	
WALK REMOVAL	SYS.	
STEPS REMOVAL	SYS.	
RETAINING WALL REMOVAL	LFT.	
PAVED SIDE DITCH REMOVAL	LFT.	
STOCKPILED SELECTED MATERIAL	CYS.	
SALVAGING STOCKPILED	CYS.	
SELECTED MATERIAL	CYS.	
SALVAGED ROAD MATERIAL	CYS.	

PAVEMENT		
ITEM	UNIT	QUANTITY
SUBBASE, TYPE "I" OR "II"	CYS.	12159
REINFORCED CONCRETE	SYS.	110,370
PLAIN CONCRETE	SYS.	
H.E.S. REINFORCED CONCRETE	SYS.	
H.E.S. PLAIN CONCRETE	SYS.	
PLAIN CONCRETE FOR PRIVATE DRIVE CROSSOVERS	SYS.	
PRIVATE DRIVE	SYS.	
REINFORCING STEEL	LBS.	762
CONTRACTION JOINTS, TYPE D-1	LFT.	12368
EXPANSION JT., 1" PREF. BITUM.	LFT.	
EXPANSION JT., 1" CORK OR CORK RUBBER	LFT.	
EXPANSION JT., 1" PREF. FIBER	LFT.	75
EXPANSION JT., " PREF.	LFT.	
EXPANSION JT., 1" PREFORMED WITH LOAD TRANSFER	LFT.	48
3" PREFORMED BITUM. EXP. JT.	LFT.	
CONCRETE BASE		
H.E.S. CONCRETE BASE		
CONCRETE PATCHES	SYS.	
CLASS I CONCRETE PATCHES	SYS.	
CLASS II CONCRETE PATCHES	SYS.	
CLASS III CONCRETE PATCHES	SYS.	
CLASS IV CONCRETE PATCHES	SYS.	
CONCRETE WIDENING	SYS.	
FILLING CRACKS AND JOINTS	GALS.	
BITUMINOUS SHOULDERS	TONS	271
BIT. SHOULDER MIXTURE FOR APPROACHES	TONS	399
AGGREGATE FOR COMPACTED		
AGGREGATE BASE	TONS	2055
AGGREGATE FOR COMPACTED		
AGGREGATE SURFACE	TONS	
WATER FOR COMPACTED	M. GALS.	12
AGGREGATE BASE		
WATER FOR COMPACTED	M. GALS.	
AGGREGATE SURFACE		
AGGREGATE FOR SHOULDER DRAINS	TONS	

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
SODDING	SYS.	1614
FURNISHING & PLACING SEED MIXTURE	LBS.	379
FURNISHING & PLACING FERTILIZER	TONS	1.7
FURNISHING & PLACING AGR. LIMESTONE	TONS	10.8
FURNISHING & APPLYING MULCH MATL.	TONS	18.0
GUARD RAIL	LFT.	1228
FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
STEEL BEAM GUARD RAIL	LFT.	
SHOP CURVED STEEL BEAM GUARD RAIL	LFT.	
WIRE ROPE GUARD RAIL	LFT.	
WOVEN WIRE FABRIC GUARD RAIL	LFT.	
FLEXIBLE STEEL PLATE OR STEEL BEAM GUARD RAIL	LFT.	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
RESET STEEL BEAM GUARD RAIL	LFT.	
RESET WIRE ROPE GUARD RAIL	LFT.	
GUARD RAIL SALVAGE	LFT.	
GUIDE POSTS, TYPE "A"	EA.	3
GUIDE POSTS, TYPE "B"	EA.	
RESET GUIDE POSTS	EA.	
BARRICADES, TYPE "A"	EA.	
BARRICADES, TYPE "B"	EA.	
TYPICAL SIGN STANDARDS	EA.	
RAILROAD CROSSING SIGN, TYPE "A"	EA.	
RAILROAD CROSSING SIGN, TYPE "B"	EA.	
ADVANCE RAILROAD WARNING SIGN	EA.	
PAVED SIDE DITCH, TYPE "A"	LFT.	287
PAVED SIDE DITCH, TYPE "B"	LFT.	
PAVED SIDE DITCH, TYPE "C"	LFT.	
LIP GUTTER	LFT.	245
COMBINED CURB AND GUTTER	LFT.	
CONCRETE CURB	LFT.	
CONCRETE CURB TYPE "B"	LFT.	142
INTEGRAL CONCRETE CURB	LFT.	
INTEGRAL CONCRETE CURB TYPE "B"	LFT.	519
BITUMINOUS CURB	LFT.	319
CONCRETE CENTER CURB		
6" HAND LAID RIP RAP	SYS.	
12" HAND LAID RIP RAP	SYS.	120
GROUTED RIP RAP	SYS.	
PLACING 6" HAND LAID RIP RAP	SYS.	
PLACING 12" HAND LAID RIP RAP	SYS.	
PLACING GROUTED RIP RAP	SYS.	
PRECAST CONCRETE RIP RAP	SYS.	
RIGHT OF WAY MARKERS	EA.	15
PLACING RIGHT OF WAY MARKERS	EA.	
RESET RIGHT OF WAY MARKERS	EA.	
MONUMENTS, TYPE "A"	EA.	
MONUMENTS, TYPE "B"	EA.	
MONUMENTS, RE-ESTABLISHED	EA.	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EA.	
R/W FENCE FARM FIELD TYPE	L. FT.	106
BENCH MARK POSTS	EA.	
RESETTING BENCH MARK POSTS	EA.	

STRUCTURES											
ITEM	PIPE - LINEAL FEET										
	4"	6"	8"	10"	12"	15"	18"	24"	30"		
REINFORCED METAL					1140		220	162	154		
RC. CONC. OR CONC.									1202		
VC. CONC. OR CONC.											
PIPE											
PIPE TO BE RELAID											
EXTRA STRENGTH REINFORCED CONCRETE											
VT. CLAY OR CONC. SEWER											
SEWER											
VT. CLAY SEWER											
REINFORCED CONCRETE											
BITUM. COATED CORR. METAL											
DEFORMED CORR. METAL											
DRAIN TILE											

SUBSURFACE DRAINAGE		
ITEM	UNIT	QUANTITY
PIPE - LINEAL FEET	AGG. CU. YDS.	12520
6" PERFORM. VC. SEWER, CEM. CONC. SEWER OR PERFORM. VC. SEWER		1197
6" BIT. COATED PERFORM. VC. SEWER, CEM. CONC. SEWER OR PERFORM. VC. SEWER		

FOR STRUCTURES		
ITEM	UNIT	QUANTITY
CONCRETE CLASS "D"	CYS.	15.1
REINFORCING STEEL	LBS.	

GATE VALVES		
ITEM	UNIT	QUANTITY
SIZE	HEAD	EA.

CATCH BASINS	
TYPE	EACH
PIPE CATCH BASIN	
SIZE	EACH
12"	
15"	
18"	
24"	

INLETS	
TYPE	EACH
F-7	1
D-2	2
M-1	1

MANHOLES	
TYPE	EACH
A-4	
B-4	

RECONSTRUCTED	
TYPE	LN. FT.
MANHOLE	
CATCH BASIN	
INLET	

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	SKEW	LENGTH L'	HEIGHT H'	WINGS W'	FLOW LINE		CONCRETE CLASS "D" CU. YDS.	SPECIAL BORROW GRADE "B" CU. YDS.	REINFORCING STEEL LBS.	REMARKS
								UP STREAM ELEV.	DOWN STREAM ELEV.				
93A	344+60 Lt.	6"	Std. Inlet, Type F-7					515.10	515.06				Connect to Str. No. 93
98A	348+700 Lt.	6"	Class 7 Pipe		752								S.W. Ramp 1-45° Bend Req'd
100A	354+00 Lt.	12"	Std. Inlet Type E-7					525.81	525.67				Connect to Structure No. 101A
101A	354+00 Lt.	12"	Class 1 Pipe		64			525.67	525.55		10		Const. Hdwl. on Outlet end
102A	355+08 Lt.	12"	Std. Inlet Type D-6		44			525.55	523.80	.64	5		Const. Hdwl. on Outlet end
102B	359+25	30"	Class 1 Pipe		32			529.32	528.20	.64	5		Const. Hdwl. on Outlet end
103A	10+75	30"	Class 3 Pipe		202			523.60	522.00	5.78	150		S.E. Ramp
105A	4+00	24"	Class 1 Pipe		54			516.06	516.06	5.78	50		S.W. Ramp
108A	15+75	18"	Class 1 Pipe	30°	62			530.97	528.71	3.75	10		Line 5-34-q
111A	17+80 Lt.	12"	Std. C. Basin Type C-7		80			525.50	525.30	2.29	10		Not Included in this Contract
111B	18+00 Lt.	12"	B.C.C.M. Pipe										Not Included in this Contract
112A	7+00 Rt.	12"	Std. C. Basin Type C-7										Not Included in this Contract
113A	8+00 Lt.	12"	B.C.C.M. Pipe		24					0.58			Line 5-34-q
114A	16+95 Rt.	6"	B.C.C.M. Pipe		20					0.58			Line 5-34-q
115A	16+95 Rt.	6"	Class 7 Pipe		1000								Line 5-34-q 2-45° Bends
116A	22+47 Lt.	43x27"	Class 7 Pipe		704								Line 5-34-q 2-45° Bends
117A	23+99	43x27"	B.C.C.M. Pipe		60			519.50	510.59	6.09	125		Line 5-34-q Remove 2'3" Conc. Box Culvert in Place
118A	18+30-20 Rt.	6"	Class 7 Pipe		538								Line 5-34-q 1-45° Bend Req'd
119A	24+00 Rt.	12"	Class 7 Pipe		202					0.58			Line 5-34-q 1-45° Bend Req'd
			B.C.C.M. Pipe		24								Line 5-34-q