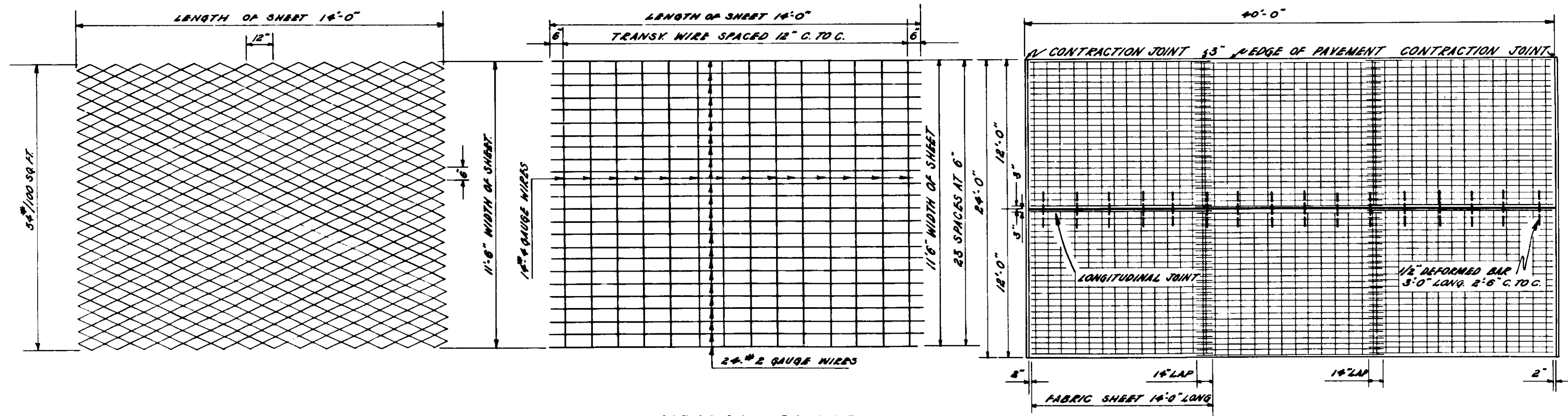


FEDERAL ROAD DIVISION NO.	STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	ADD/0	1955	2	229

REINFORCED CONCRETE PAVEMENT

SCALE - 1/4" = 1'-0"
 STA. 418+00 TO STA. 550+60
 STA. 571+60 TO STA. 776+10



NOTE - IF CONTRACTOR SO DELECTS HE WILL BE PERMITTED TO USE FABRIC SHEETS 10'-0" LONG WITH 12" TRANSVERSE LAP INSTEAD OF LENGTH OF SHEET AND LAP AS SHOWN.

TYPICAL SHEET EXPANDED WIRE FABRIC
 SCALE 3/8" = 1'-0"

TYPICAL SHEET WIRE FABRIC
 SCALE 3/8" = 1'-0"

PLAN OF REINFORCED CONCRETE SLAB
 SCALE 3/8" = 1'-0"

PAVEMENT OFFSETS FOR 24" PAVEMENT TO BE AS SHOWN ON MISC. STD. SHEET "A" FOR HALF 48" PAVT.

NOTE - WHERE IT BE NECESSARY TO MAKE A LONGITUDINAL LAP OF FABRIC SHEET DUE TO WIDENED PAVEMENT, THE MESH SHALL BE LAPPED NOT LESS THAN 6".

NOTE - FOR WIDTHS OF PAVEMENT SLABS OTHER THAN 12'-0" WIDTH OF FABRIC SHEET SHALL BE 6" LESS THAN THE WIDTH OF THE SLAB WITH THE WEIGHT AND SPACING AS SHOWN.

TYPICAL CROSS SECTIONS

SCALE - AS SHOWN

PREPARED AND RECOMMENDED FOR APPROVAL BY
 SHAFFER-PARRETT AND ASSOCIATES
 CONSULTING ENGINEERS - WOOSTER, OHIO

Edgar J. Parrett
 PARTNER 8-23-55 DATE

APPROVED *Wm. H. Miller* 3/31/58
 CHAIRMAN STATE HIGHWAY DEPT. OF INDIANA

APPROVED *Wm. H. Miller* 3/31/58
 CHIEF ENGINEER STATE HIGHWAY DEPT. OF INDIANA

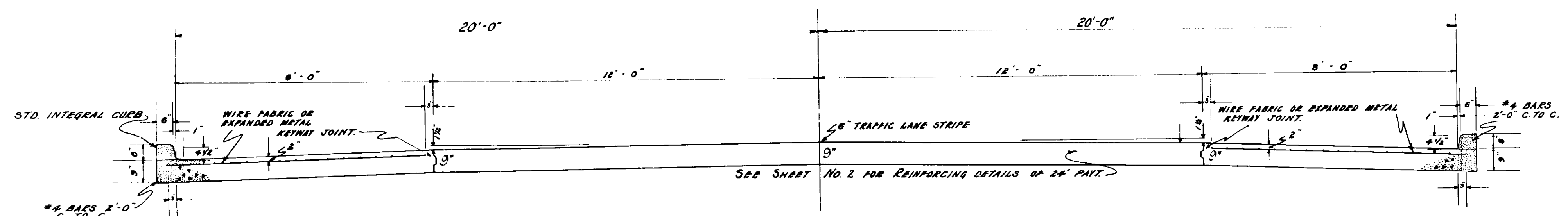
~~APPROVED~~ *Wm. H. Miller* 3/31/58
~~CHIEF ENGINEER STATE HIGHWAY DEPT. OF INDIANA~~

~~APPROVED~~ *Wm. H. Miller* 3/31/58
~~CHIEF ENGINEER STATE HIGHWAY DEPT. OF INDIANA~~

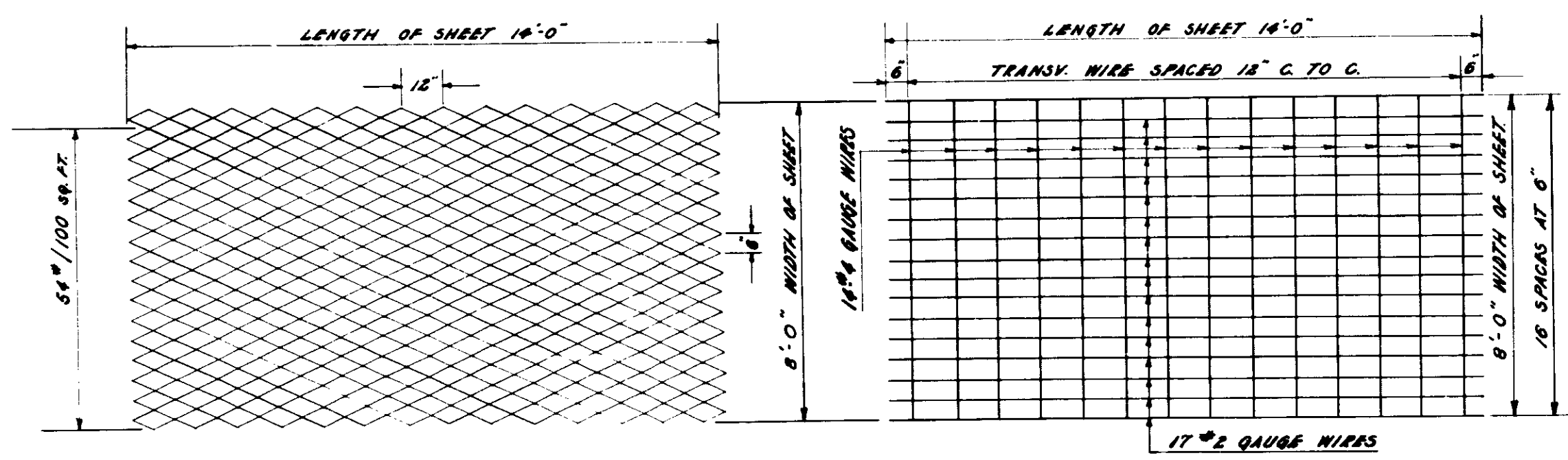
RECOMMENDED FOR APPROVAL ~~XXX~~ 3-26-58

Wm. H. Miller
 ENGINEER OF ROAD DESIGN STATE HIGHWAY DEPT. IND.

FEDERAL ROAD DIVISION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-39(16)	1955	3	229



REINFORCED CONCRETE PAVEMENT
 SCALE - 1/8" = 1'-0"
 STA. 550+60 TO STA. 571+70
 STA. 776+10 TO STA. 777+52



TYPICAL SHEET EXPANDED WIRE FABRIC
 SCALE 3/8" = 1'-0"

TYPICAL SHEET WIRE FABRIC
 SCALE 3/8" = 1'-0"

NOTE - WHERE IT BE NECESSARY TO MAKE A LONGITUDINAL LAP OF FABRIC SHEET DUE TO WIDENED PAVEMENT THE MESH SHALL BE LAPPED NOT LESS THAN 6".

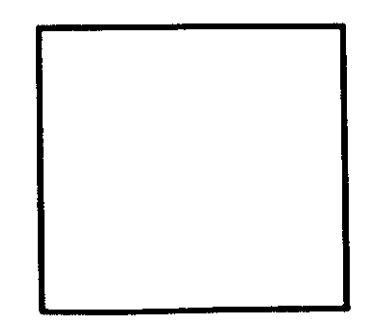
NOTE - FOR WIDTHS OF PAVEMENT SLABS OTHER THAN 8'-0" WIDTH OF FABRIC SHEET SHALL BE 6" LESS THAN THE WIDTH OF THE SLAB WITH THE WEIGHT AND SPACING AS SHOWN.

TYPICAL CROSS SECTIONS

SCALE - AS SHOWN

PREPARED AND RECOMMENDED FOR APPROVAL BY
 SHAFER - PARRETT AND ASSOCIATES
 CONSULTING ENGINEERS - WOOSTER, OHIO.

Shafar Parrett
 PARTNER
 8-22-55
 DATE



APPROVED *[Signature]*
 CHAIRMAN STATE HIGHWAY DEPT. OF INDIANA

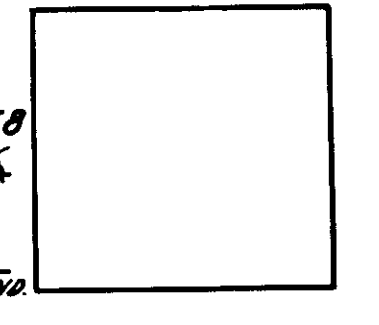
APPROVED *[Signature]*
 CHIEF ENGINEER STATE HIGHWAY DEPT. OF INDIANA

APPROVED *[Signature]*
 SUPERVISOR STATE HIGHWAY DEPT. OF INDIANA

APPROVED *[Signature]*
 CHIEF ENGINEER STATE HIGHWAY DEPT. OF INDIANA

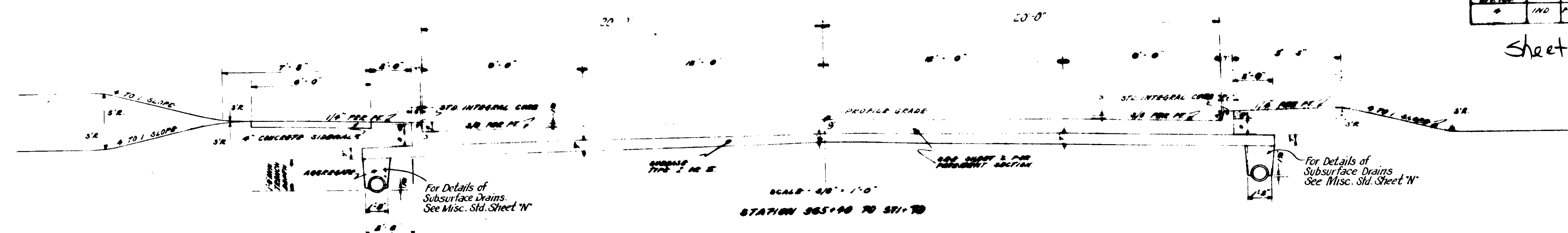
RECOMMENDED FOR APPROVAL *[Signature]*
 3-26-58

[Signature]
 ENGINEER OF ROAD DESIGN STATE HIGHWAY DEPT. OF IND.

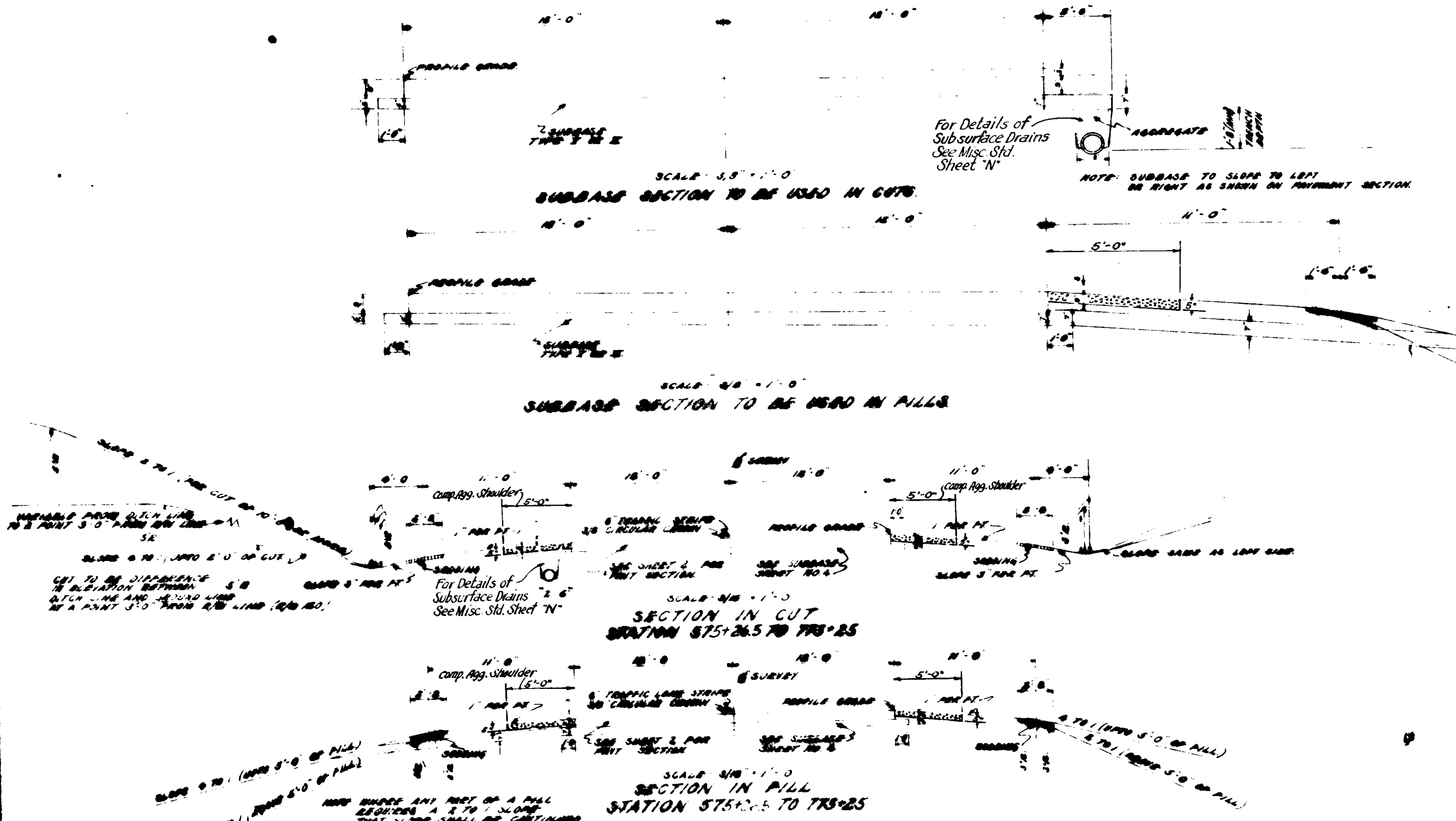


FED. ROAD DIST. NO.	STATE	PROJECT NO.	SCALE YEAR
0	IND	1281(8)	1958

Sheet No. 4



SUBSURFACE DRAIN PIPE				STRUCTURE NO.	SOOD. NO.
STATIONS	LENGTH	CONNECTIONS			
418+00 TO 418+30 LT	30	(1) 6" ON 12 TEE			
418+30 TO 422+30 LT	40	(1) 6" ON 12 TEE			
422+30 TO 427+00 RT	47	OUTLET INTO RT DITCH (CONCRETE CHANNEL)			
427+00 TO 428+40 RT	14	OUTLET INTO RT DITCH			
428+40 TO 430+00 RT	20	(1) 6" ON 12 TEE			
430+00 TO 435+00 RT	55	OUTLET INTO RT DITCH			
435+00 TO 436+80 RT	13	OUTLET INTO RT DITCH			
436+80 TO 437+40 RT	60	OUTLET INTO RT DITCH			
437+40 TO 438+00 RT	60	OUTLET INTO RT DITCH			
438+00 TO 439+00 RT	100	OUTLET INTO RT DITCH			
439+00 TO 440+00 RT	100	OUTLET INTO RT DITCH			
440+00 TO 441+00 RT	100	OUTLET INTO RT DITCH			
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497+00 TO 498+00 RT	100	OUTLET INTO RT DITCH			
498+00 TO 499+00 RT	100	OUTLET INTO RT DITCH			
499+00 TO 500+00 RT	100	OUTLET INTO RT DITCH			



TYPICAL CROSS SECTIONS

APPROVED C. E. Voelckmann 3/31/58
 ENGINEER - STATE HIGHWAY DEPT. OF INDIANA

APPROVED C. E. Voelckmann 3/31/58
 CHIEF ENGINEER - STATE HIGHWAY DEPT. OF INDIANA

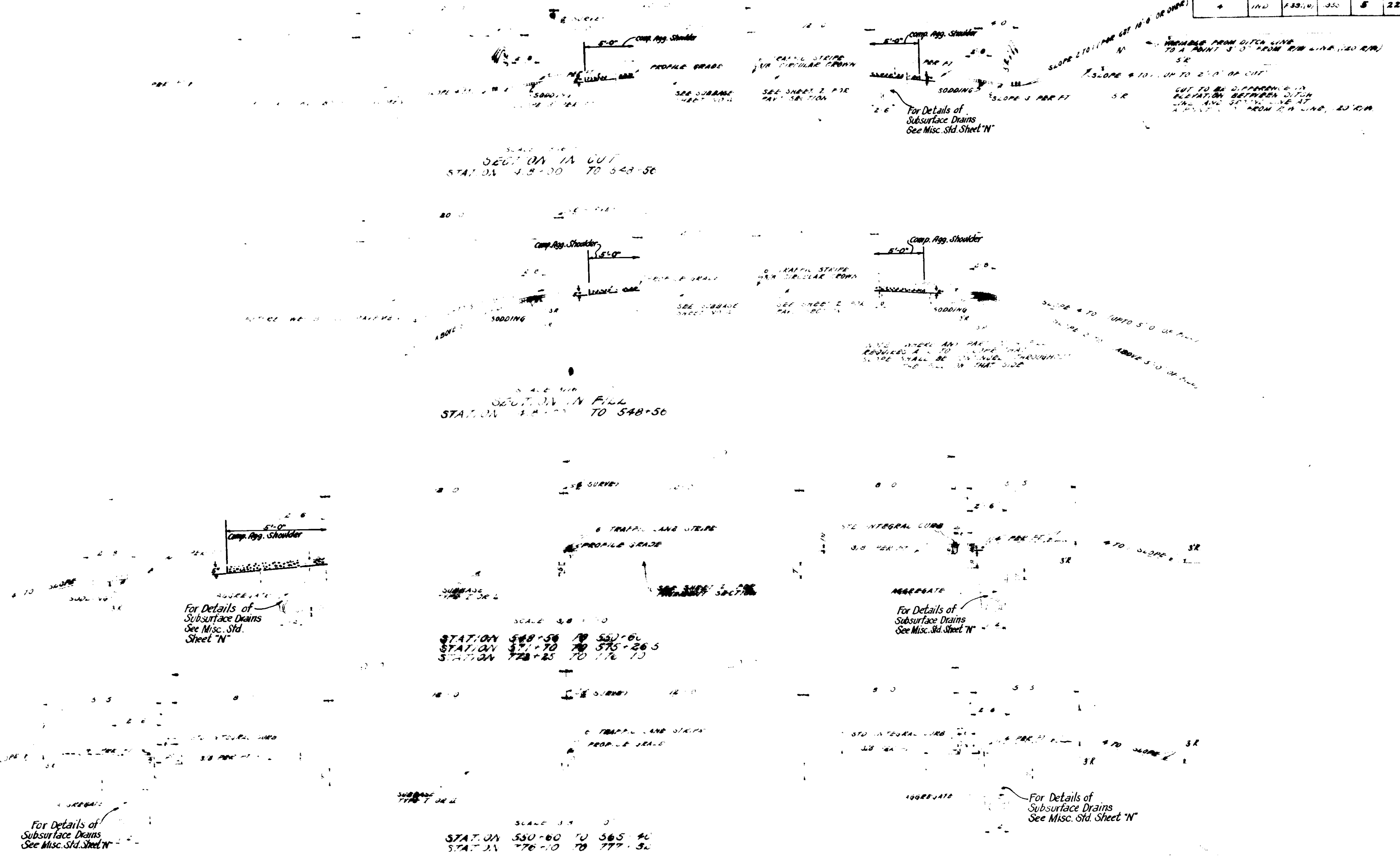
APPROVED [Signature] 3-26-58
 RECOMMENDED FOR APPROVAL

APPROVED [Signature]
 ENGINEER OF ROAD DESIGN - STATE HIGHWAY DEPT. IND.

PREPARED AND RECOMMENDED FOR APPROVAL BY
 SHAMPER-PARRETT AND ASSOCIATES
 CONSULTING ENGINEERS, NO. 1566, OHIO

FOR SPECIAL GRADES OF SUBSURFACE DRAINING SEE SHEET NO. 48, 49 & 50

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	IND.	1331.0	35	5	229



TYPICAL CROSS SECTIONS

APPROVED *[Signature]* 3/21/58
CHAIRMAN - STATE HIGHWAY DEPT. OF INDIANA.

APPROVED *[Signature]* 3/21/58
CHIEF ENGINEER - STATE HIGHWAY DEPT. OF INDIANA.

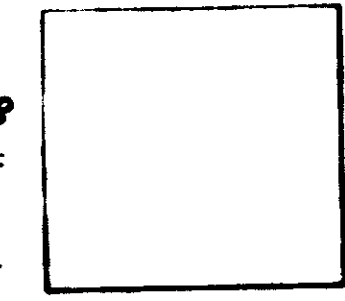
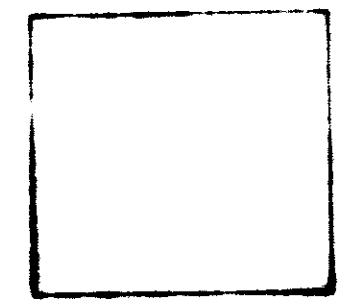
APPROVED *[Signature]* 3/21/58
RECOMMENDED FOR APPROVAL

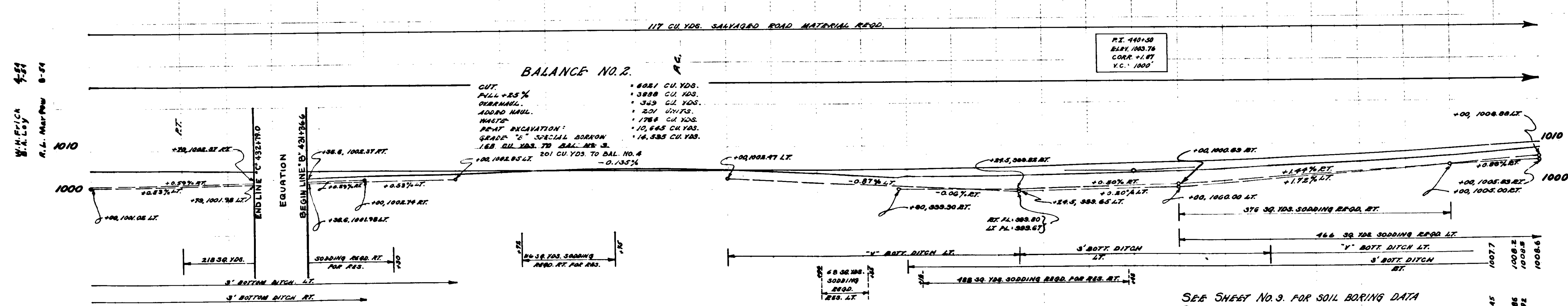
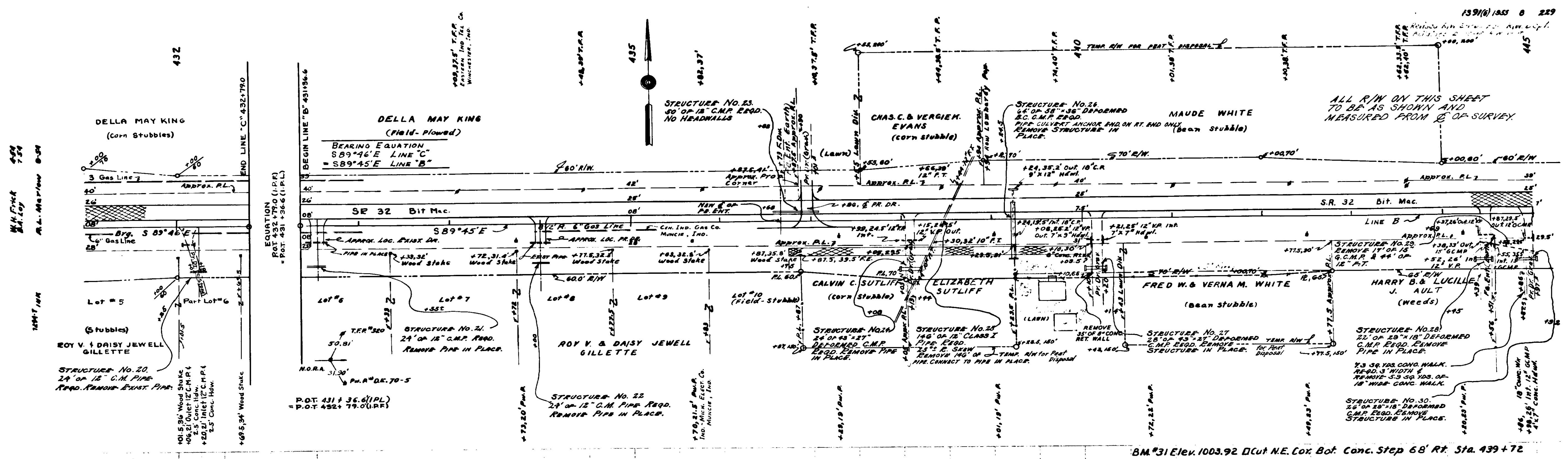
APPROVED *[Signature]* 3/21/58
MEMBER OF ROAD DESIGN STATE HIGHWAY DEPT. IND.

SCALE - AS SHOWN.

3-26-58

PREPARED AND REVISIONS BY: R. H. HARRIS
CHECKED BY: H. J. ARRETT, ASST. ASSOC. ENGR.
CONSULTING ENGINEERS, MOORE, ECKHART & CO.



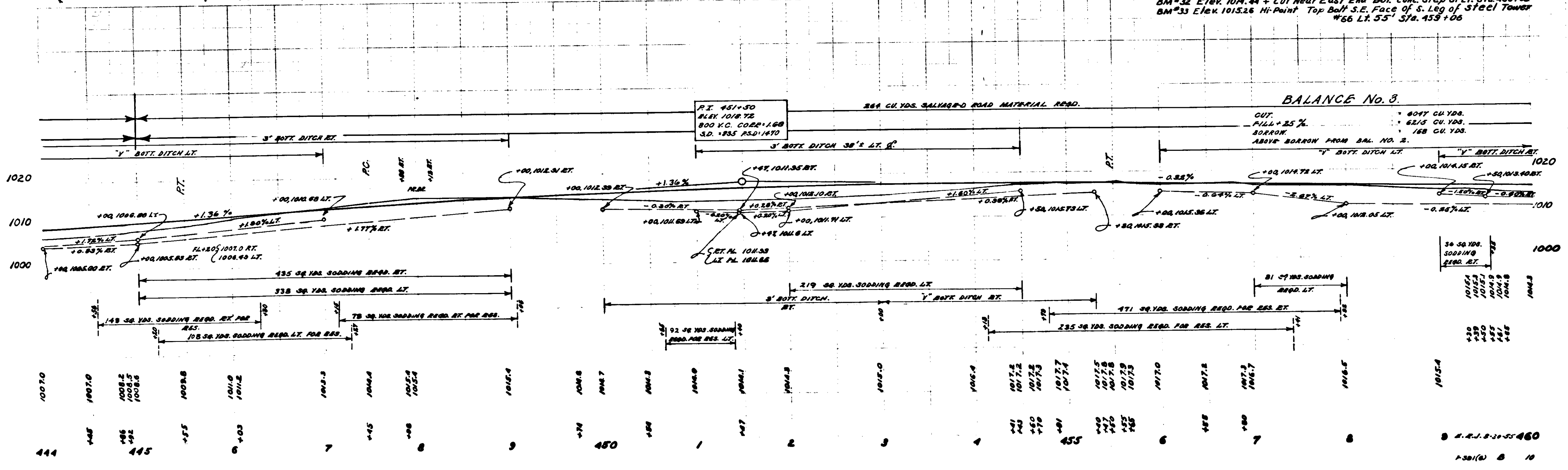
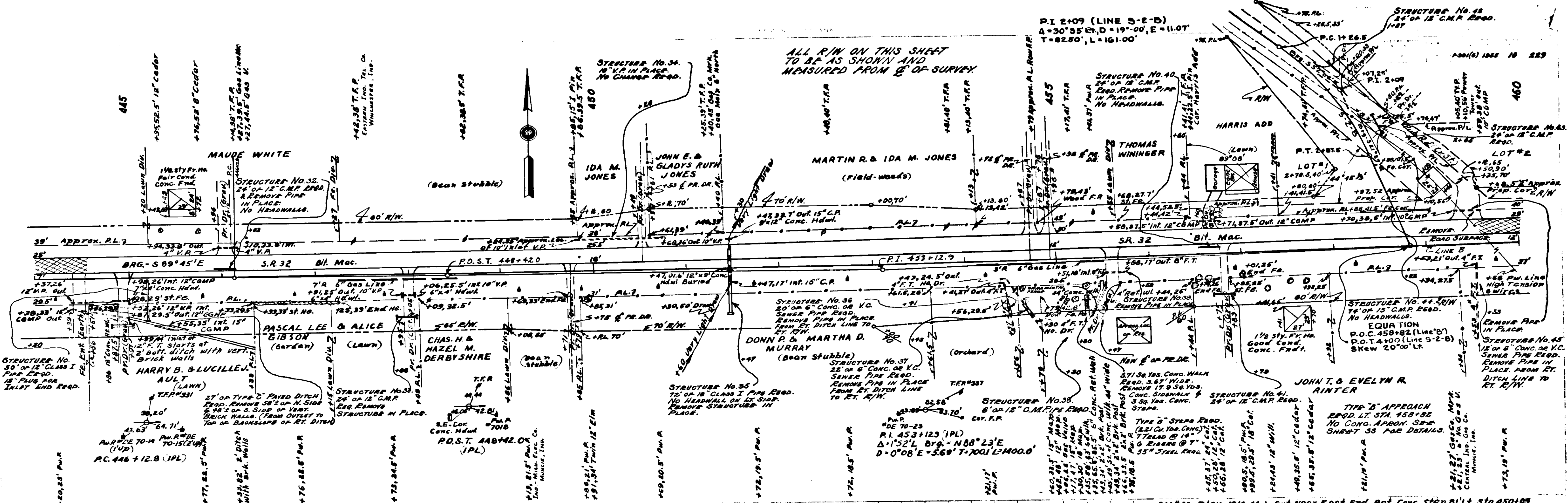


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431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500

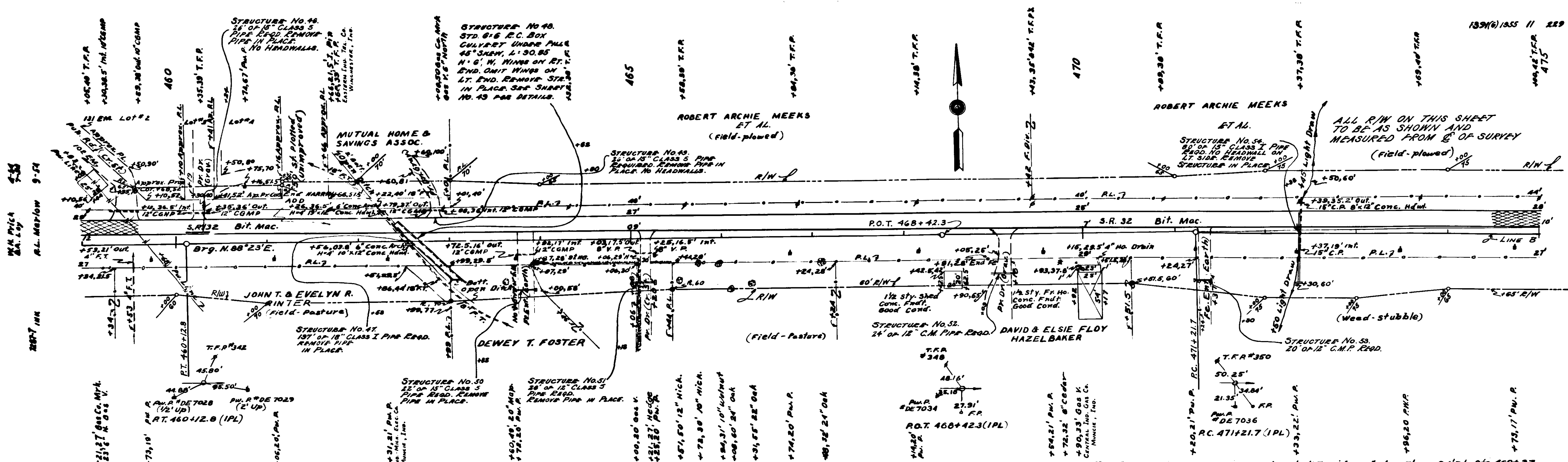
SEE SHEET NO. 9 FOR SOIL BORING DATA STATIONS 436+00 TO 444+00

W.M. Fitch
S.A. Ledy
R.L. Mearns
S-54

W.M. Fitch
S.A. Ledy
R.L. Mearns
S-54



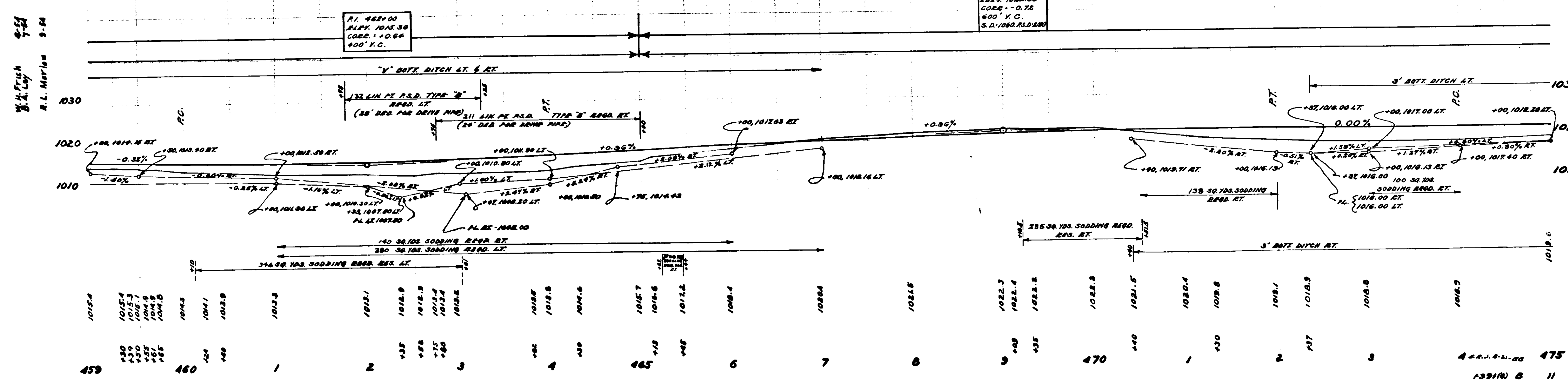
W.M. Fitch
S.A. Ledy
R.L. Mearns
S-54



ALL R/W ON THIS SHEET TO BE AS SHOWN AND MEASURED FROM B OF SURVEY (field-plowed)

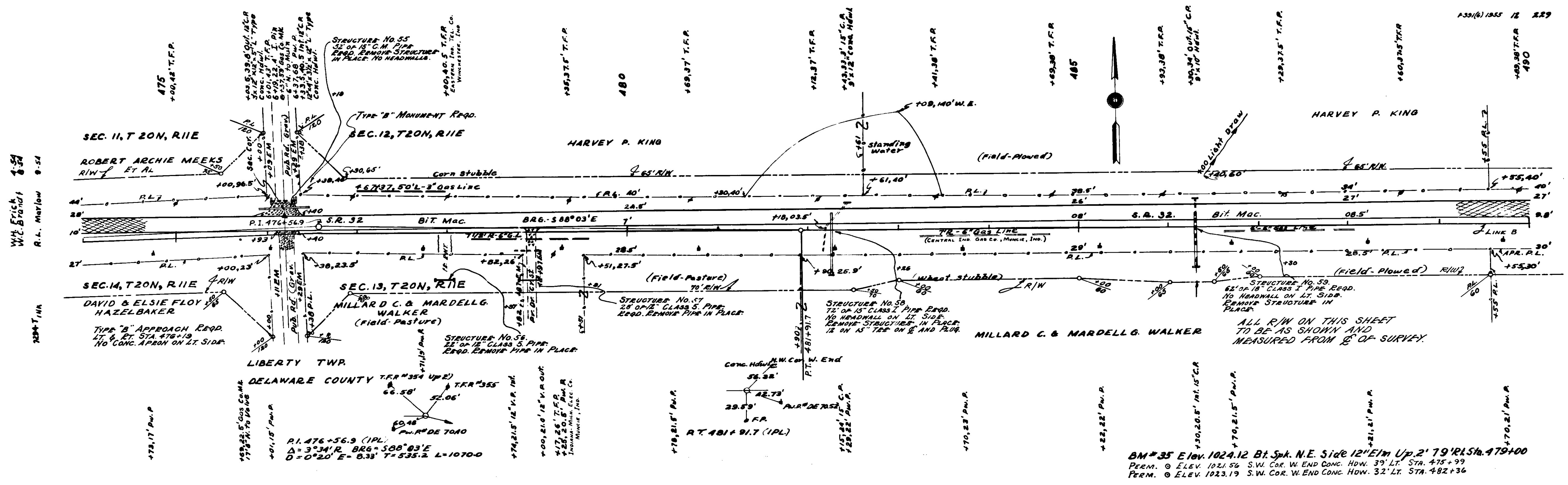
BM # 34 Elev. 1022.42 Bt. Spk. N.E. side 18" Elm 5' up 84' rt. Sta. 462+27
 Perm. @ Elev. 1012.98 S.W. Cor. W. End N. Conc. Hdwy. 36' Lt. Sta. 462+18

P.I. 462+00
 P.L.P. 1045.30
 CORR. +0.72
 600' Y.C.

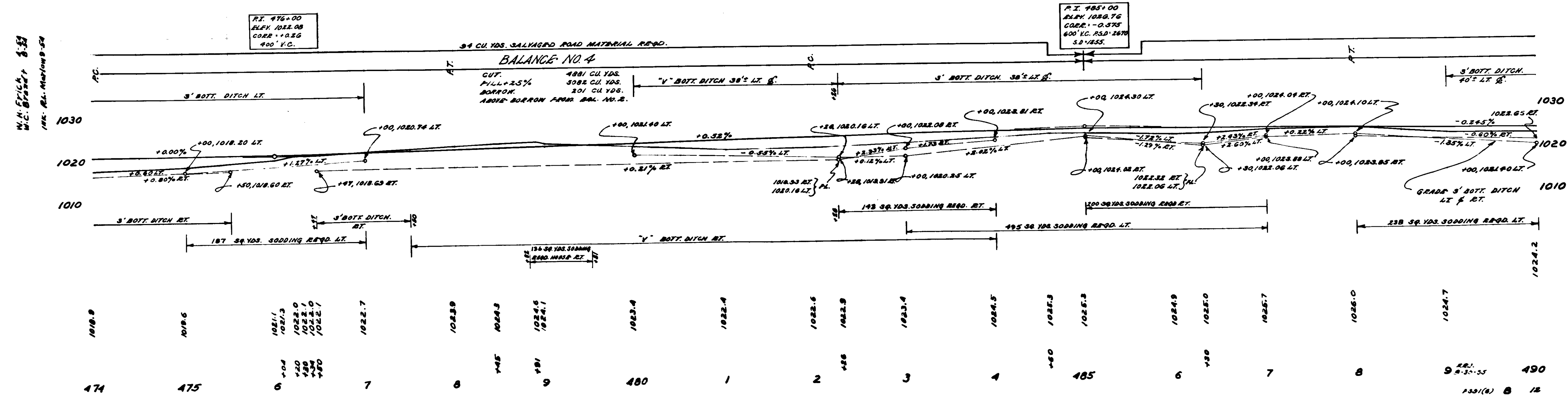


W.H. Pritch
 B.A. Coy
 R.L. Marlow
 9-54

W.H. Pritch
 B.A. Coy
 R.L. Marlow
 9-54



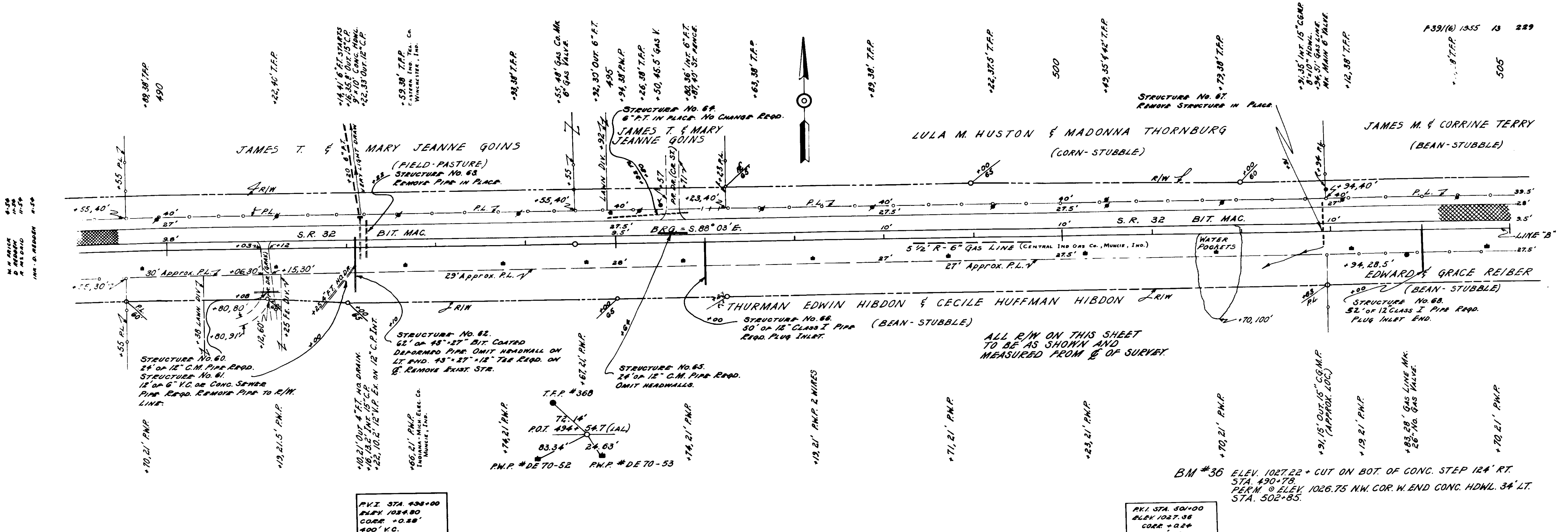
BM #35 Elev. 1024.12 Bt. Spk. N.E. Side 12" Elm Up 2' 79' 15" Sta. 479+00
 PERM. @ ELEV. 1021.56 S.W. COR. W. END CONC. HDW. 39' LT. STA. 478+99
 PERM. @ ELEV. 1023.19 S.W. COR. W. END CONC. HDW. 32' LT. STA. 482+36



W.H. Fitch
W.C. Sprayer
R.L. Maylow
9-54

2024 T.M.A.

W.H. Fitch
W.C. Sprayer
R.L. Maylow
9-54



M. H. REEDNEY
 CIVIL ENGINEER
 11-54

M. H. REEDNEY
 CIVIL ENGINEER
 11-54

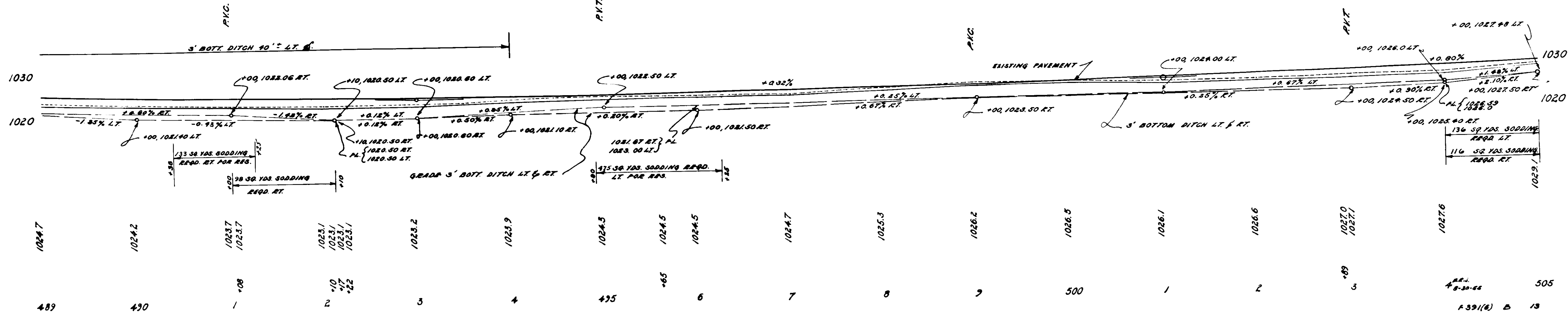
PVI STA. 438+00
 PLY 103+80
 CORR. +0.50'
 400' VC.

PVI STA. 50+00
 ELEV. 1027.36
 CORR. +0.24'
 400' VC.

17 CU. YDS. SALVAGED ROAD MATERIAL REQD.

BALANCE No. 5.

CUT	3689 CU. YDS.
FILL +25%	4339 CU. YDS.
SPECIAL BORROW	310 CU. YDS.

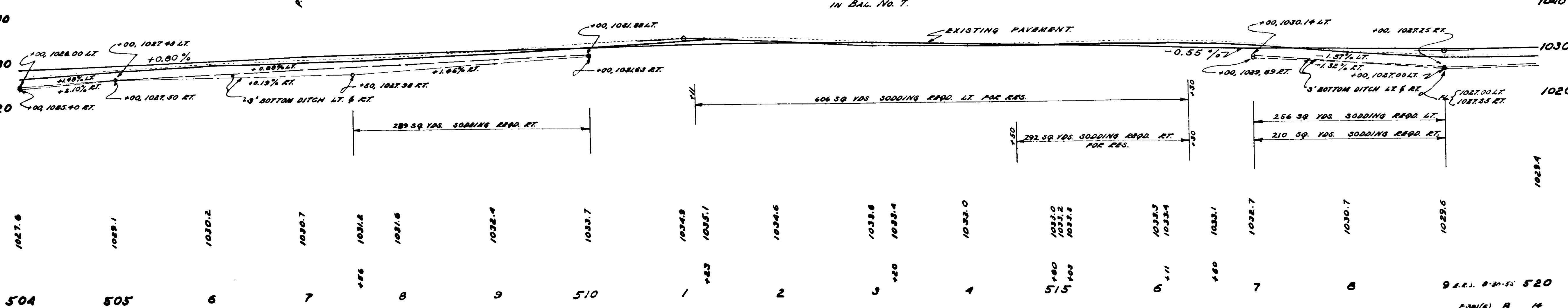
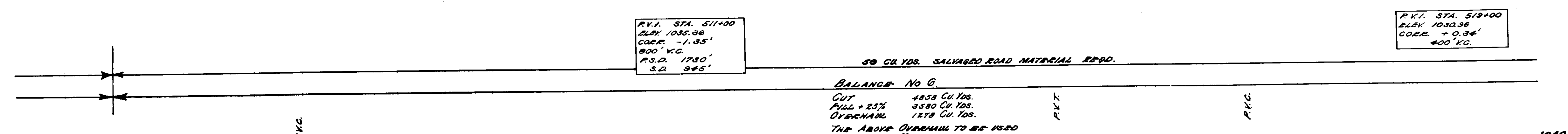
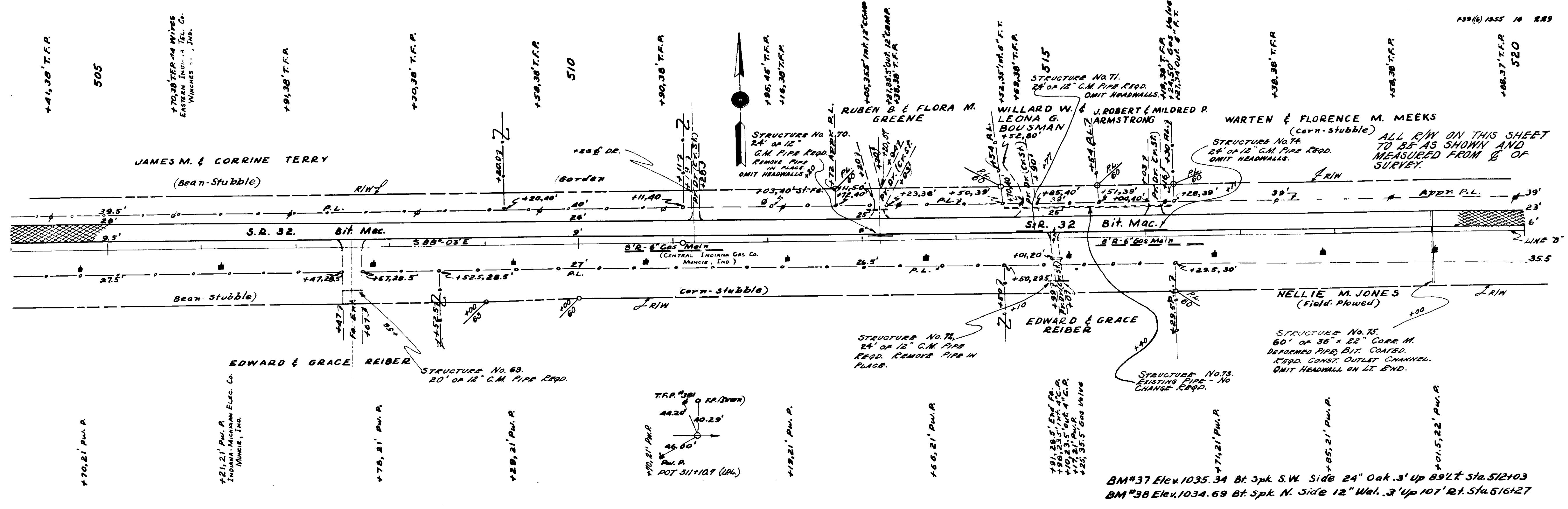


1024.7	1024.2	1023.7	1023.1	1023.2	1023.9	1024.3	1024.5	1024.5	1024.7	1025.3	1026.2	1026.5	1026.1	1026.6	1027.0	1027.1	1027.6	505
489	430	1	2	3	4	435	465	6	7	8	9	500	1	2	3	4	505	

W.M. Frick
 4-29
 13-34-04
 1111
 R.L. Matthews 54

TRIP, T.M.K.

W.M. Frick
 4-29
 13-34-04
 1111
 R.L. Matthews 54



1027.6	1028.1	1030.2	1030.7	1031.2	1031.6	1032.4	1033.7	1034.9	1035.1	1035.6	1036.6	1038.4	1039.0	1039.2	1039.2	1039.2	1039.3	1039.4	1039.1	1039.7	1039.7	1039.6
504	505	6	7	8	8	9	510	1	1	2	3	4	5	5	5	6	6	6	7	7	8	520

130(6) 1035 M 229

1035.37 T.F.P. 520

ALL R/W ON THIS SHEET TO BE AS SHOWN AND MEASURED FROM 1/2 OF SURVEY.

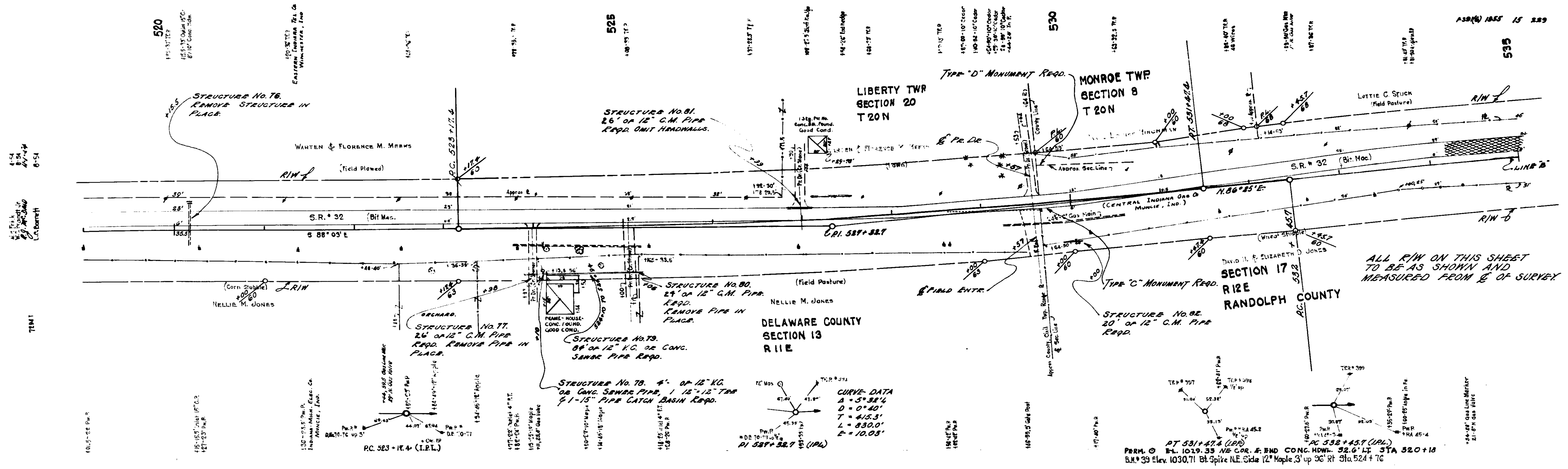
BM #37 Elev. 1035.34 Bt. Spk. S.W. Side 24" Oak .3' up 89' Lt. Sta. 512+03
 BM #38 Elev. 1034.69 Bt. Spk. N. Side 12" Wal. .3' up 107' Rt. Sta. 516+27

P.V.I. STA. 511+00
 B.L.K. 1035.36
 C.O.R. -1.35'
 800' V.C.
 P.S.D. 1750'
 3.2 3+5'

P.V.I. STA. 519+00
 B.L.K. 1030.96
 C.O.R. +0.34'
 400' V.C.

BALANCE No. 0
 CUT 4858 Cu. Yds.
 FILL + 25% 3580 Cu. Yds.
 OVERHAUL 1278 Cu. Yds.
 THE ABOVE OVERHAUL TO BE USED IN BAL. No. 7.

606 SQ. YDS. SODDING REQD. LT. FOR RES.
 292 SQ. YDS. SODDING REQD. RT. FOR RES.
 256 SQ. YDS. SODDING REQD. LT.
 210 SQ. YDS. SODDING REQD. RT.

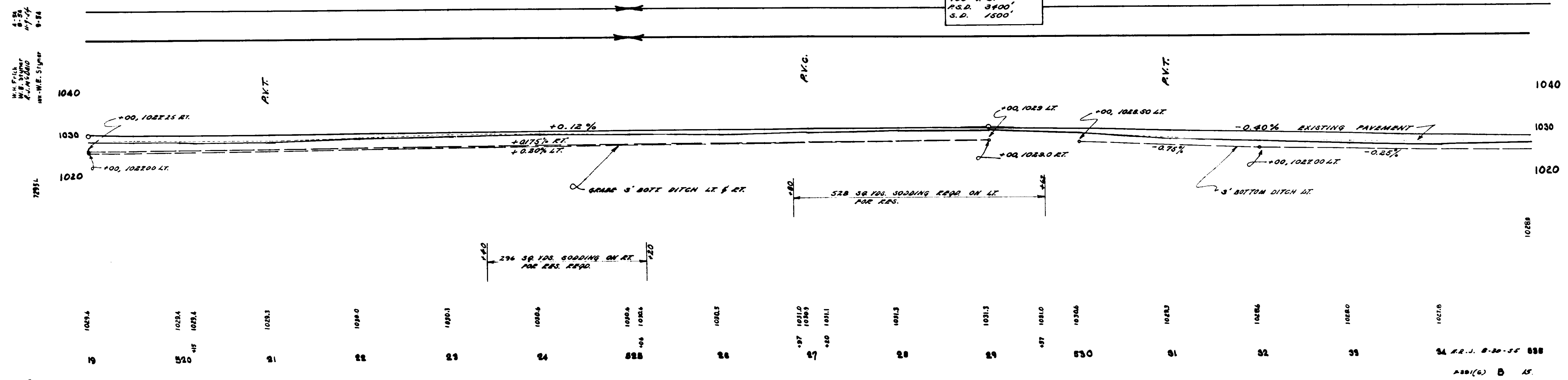


CURVE DATA
 Δ = 5° 38' 14"
 D = 0' 40"
 T = 4' 15.3"
 L = 830.0'
 E = 10.05'

PK 1 STA. 529+00
 ELEV. 1032.16
 CORR. -0.26'
 100' V.C.
 P.S.D. 3400'
 S.D. 1500'

PC 528+47.4 (I.P.R.)
 PT 531+47.4 (I.P.R.)
 PERM. @ Sta. 1019.35 NE COR. E. END CONC. HWY. 32.6' LT. STA 520+18
 BM* 39 Elev. 1030.71 Bl. Spike NE Side 12" Maple 3' up 30" RT Sta. 524+70

ALL R/W ON THIS SHEET
 TO BE AS SHOWN AND
 MEASURED FROM E OF SURVEY



STREET APPROACH RT 551+78
SEE SHEET 35 FOR DETAILS

STREET APPROACH RT LT STA 555+00
SEE SHEET 35 FOR DETAILS

ALLEY APPROACH
LT STA 556+56.5

STREET APPROACH RT 558+88
SEE SHEET 35 FOR DETAILS

STREET APPROACH RT 561+51.5
SEE SHEET 36 FOR DETAILS

ALLEY APPROACH
RT STA 563+36.75

PARKER CITY
MONROE TWP T20N SEC. 8

JOHN E. HARTY
(weeds)

STRUCTURE No. 108
STRUCTURE No. 105

REBA ANN
Lot # 1
Lot # 2

MARTHA HARNES

REED & HARNES SUBDIVISION
R12 RANDOLPH COUNTY
SEC. 17

LOT # 3

LOT # 4

LOT # 5

LOT # 6

LOT # 7

LOT # 8

LOT # 9

LOT # 10

LOT # 11

LOT # 12

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LOT # 14

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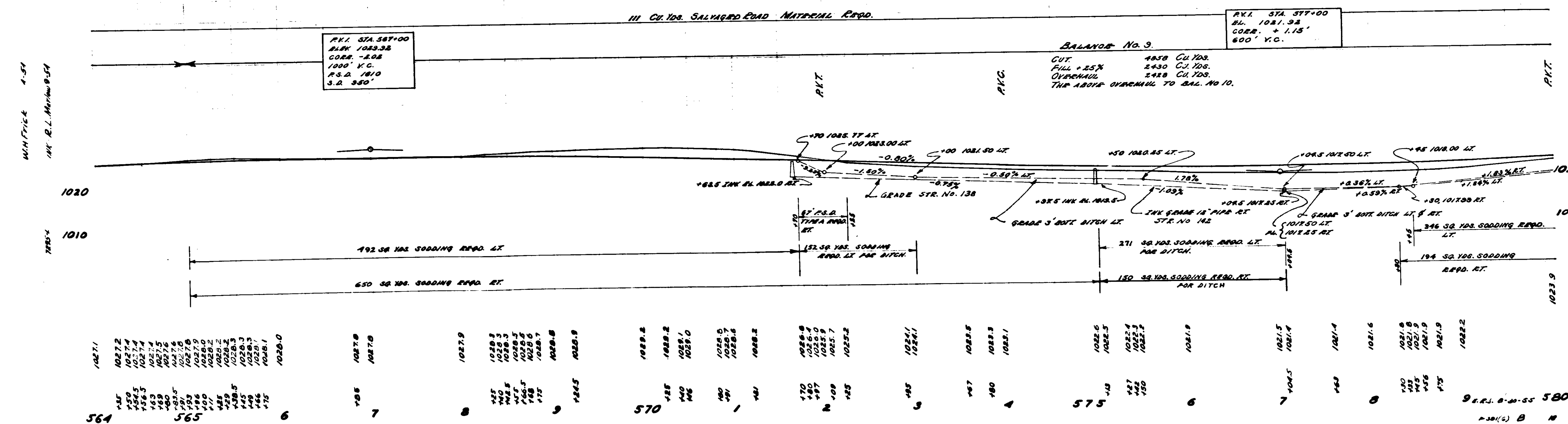
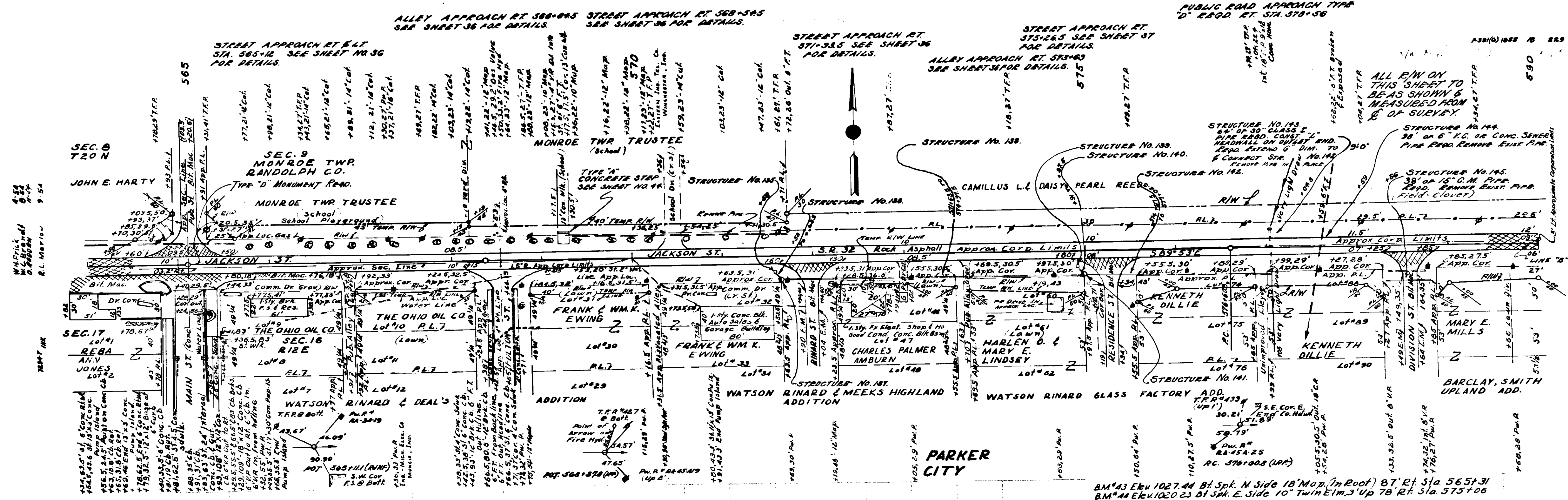
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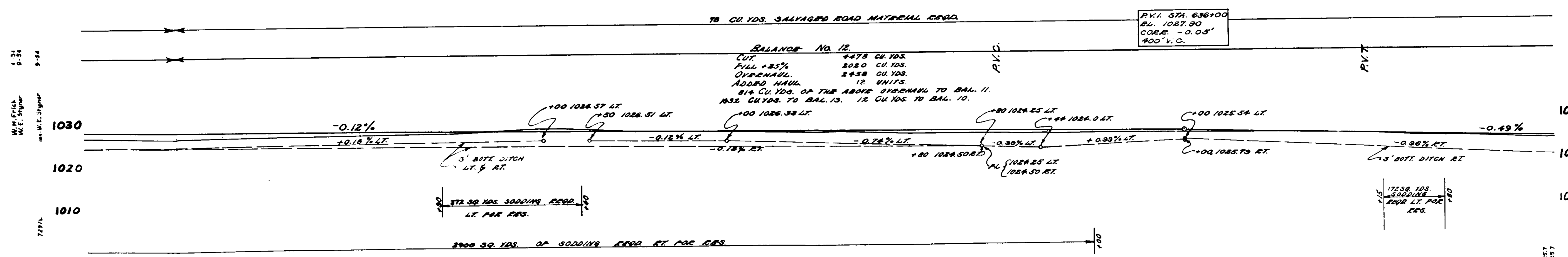
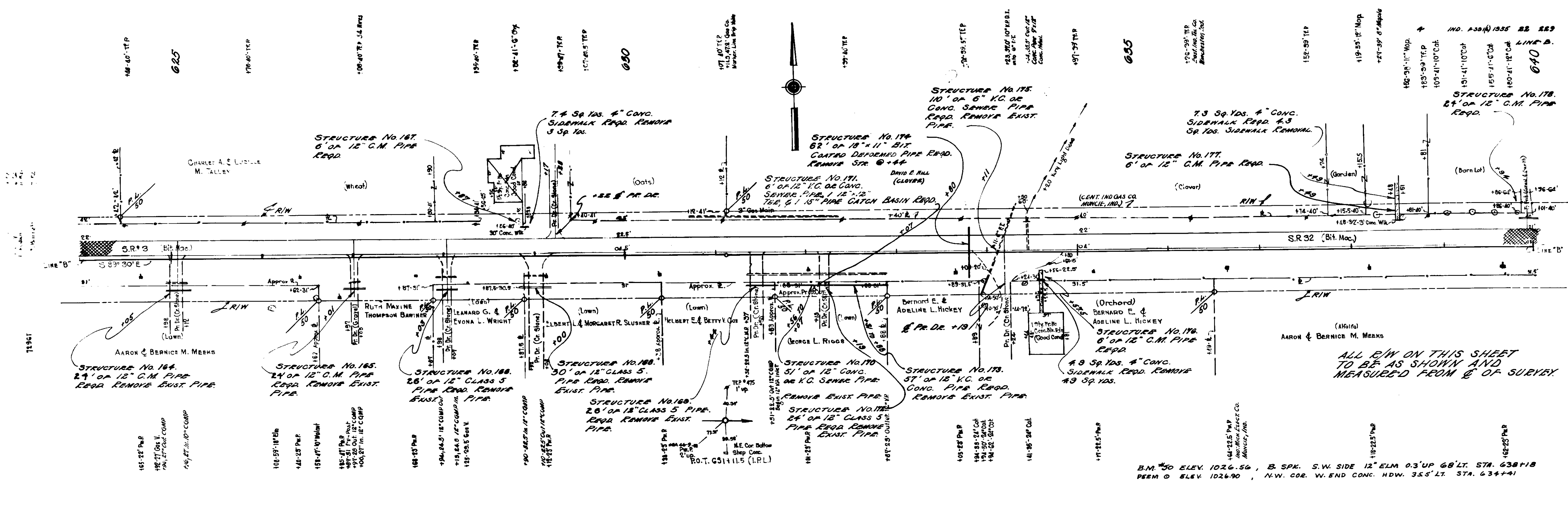
LOT # 263

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LOT # 266





STATION	ELEVATION	REMARKS
634	1026.50	B.M. 50 ELEV. 1026.50
635	1027.90	B.M. 50 ELEV. 1027.90
636	1028.50	1028.50
637	1029.00	1029.00
638	1029.50	1029.50
639	1030.00	1030.00
640	1030.50	1030.50

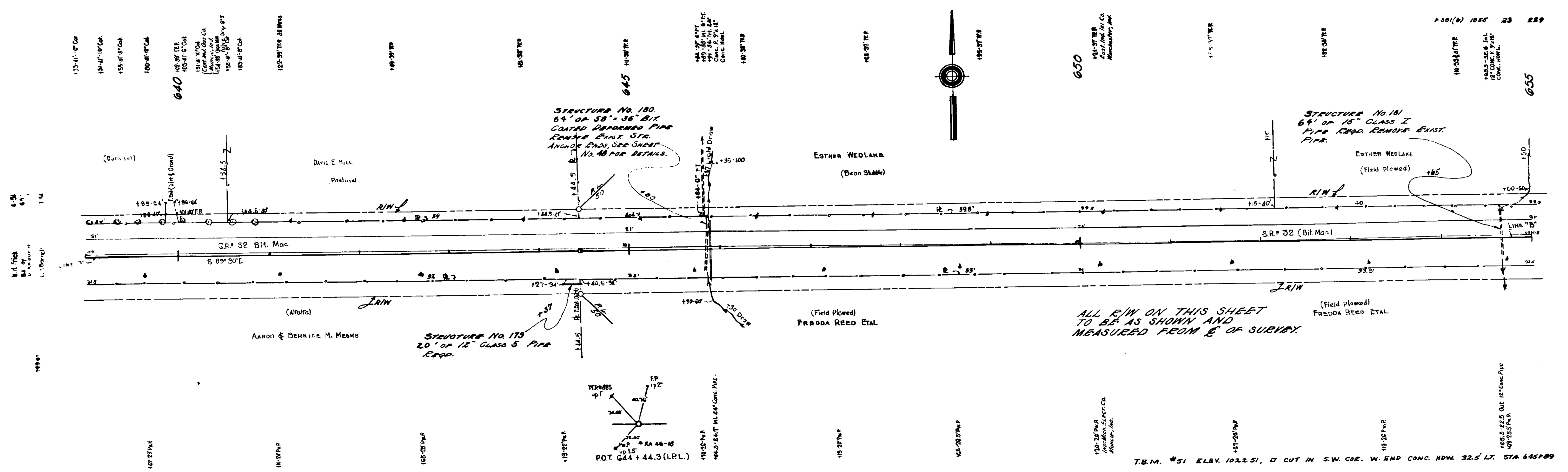
ALL E/W ON THIS SHEET TO BE AS SHOWN AND MEASURED FROM Q OF SURVEY

B.M. 50 ELEV. 1026.50, B. SPK. S.W. SIDE 12" ELM 0.3' UP 68' LT. STA. 638+18
 PERM 0 ELEV. 1026.90, N.W. COR. W. END CONC. HDW. 355' LT. STA. 634+41

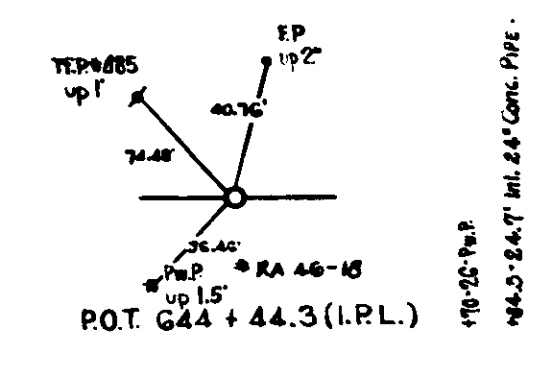
P.V. STA. 636+00
 ELEV. 1027.90
 COR. -0.05'
 400' V. C.

BALANCE NO. 12
 CUT 4478 CU. YDS.
 FILL +25% 2080 CU. YDS.
 OPENHAUL 2458 CU. YDS.
 ADD'D HAUL 12 UNITS.
 814 CU. YDS. OF THE ABOVE OPENHAUL TO BAL. 11.
 1032 CU. YDS. TO BAL. 13. 12 CU. YDS. TO BAL. 10.

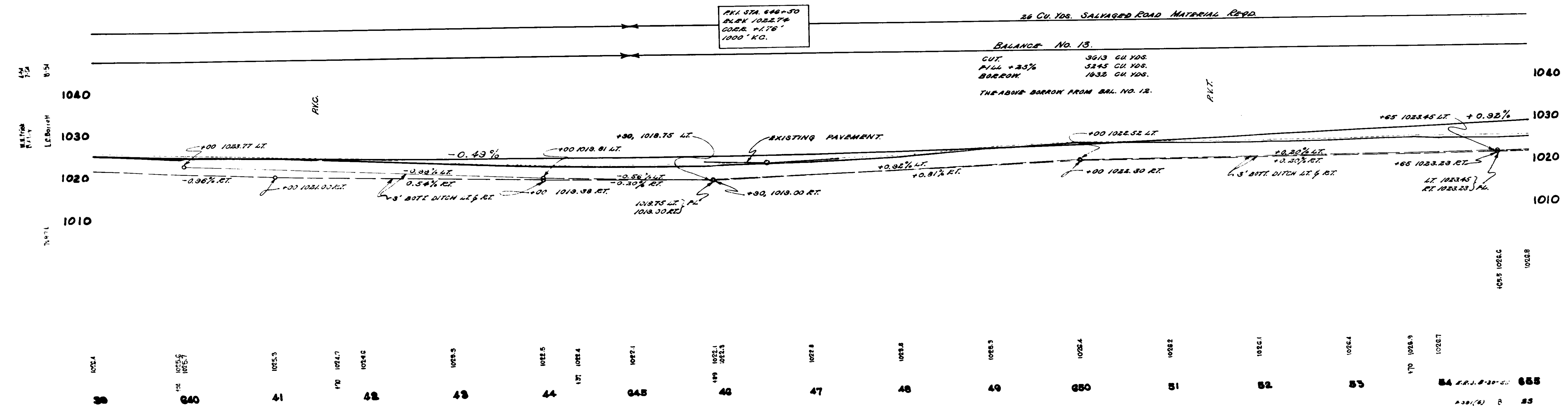
PROJ.	LINE	SHEET	TOTAL
A-307(6)	B	22	640



ALL E/W ON THIS SHEET TO BE AS SHOWN AND MEASURED FROM E OF SURVEY.



T.B.M. #51 ELEV. 1022.51, 0 CUT IN S.W. COR. W. END CONC. HDW. 32.5' LT. STA. 645+00



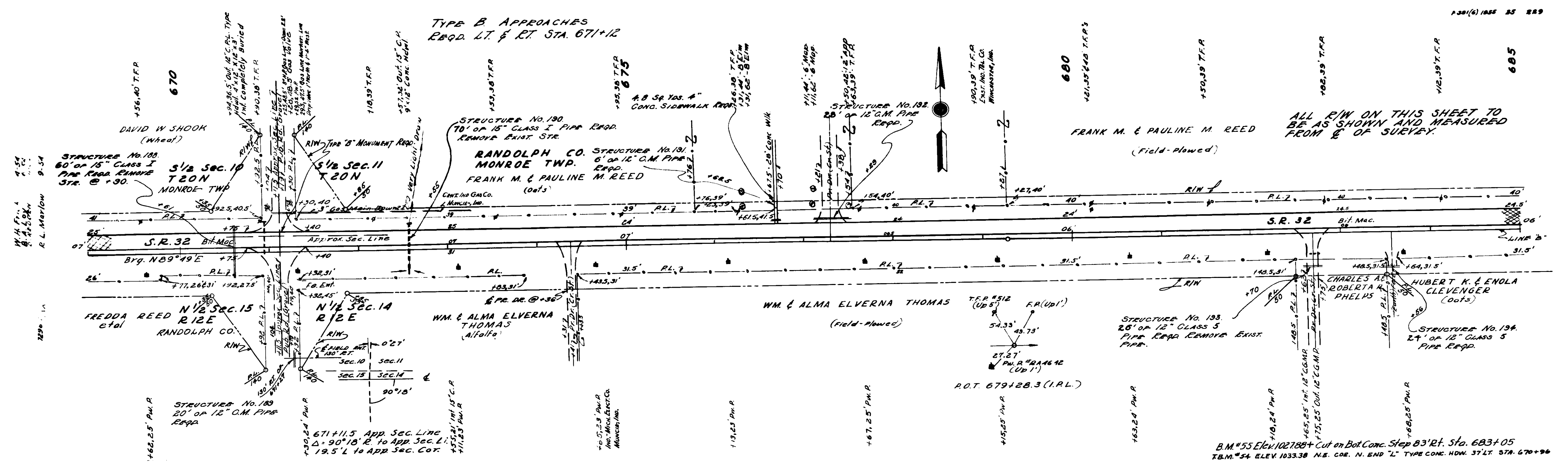
PKI STA. 644+30
BLK 1022.7
CORR. +1.76'
1000' KG.

26 CU. YDS. SALVAGED ROAD MATERIAL REQD.

BALANCE NO. 13.
CUT 3613 CU YDS.
FILL 3245 CU YDS.
BORROW 1833 CU YDS.
THE ABOVE BORROW FROM BAL. NO. 12.

1024.4 1025.5 1026.7 1027.5 1028.4 1029.5 1030.5 1031.5 1032.4 1033.1 1034.1 1035.1 1036.1 1037.1 1038.1 1039.1 1040.1 1041.1 1042.1 1043.1 1044.1 1045.1 1046.1 1047.1 1048.1 1049.1 1050.1 1051.1 1052.1 1053.1 1054.1 1055.1 1056.1 1057.1 1058.1 1059.1 1060.1 1061.1 1062.1 1063.1 1064.1 1065.1 1066.1 1067.1 1068.1 1069.1 1070.1 1071.1 1072.1 1073.1 1074.1 1075.1 1076.1 1077.1 1078.1 1079.1 1080.1 1081.1 1082.1 1083.1 1084.1 1085.1 1086.1 1087.1 1088.1 1089.1 1090.1 1091.1 1092.1 1093.1 1094.1 1095.1 1096.1 1097.1 1098.1 1099.1 1100.1

TYPE B APPROACHES
REQD. LT. & RT. STA. 671+12



ALL R/W ON THIS SHEET TO
BE AS SHOWN AND MEASURED
FROM E. OF SURVEY.

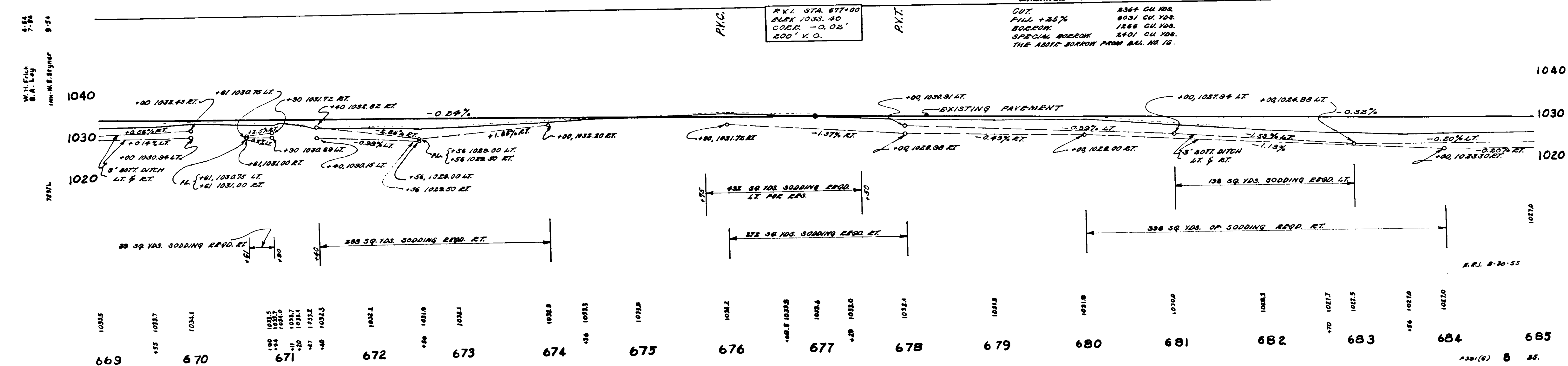
B.M. #55 ELEV. 1027.00+ Cut on Bot. Conc. Step 0.3' RT. Sta. 683+05
T.B.M. #54 ELEV. 1033.38 N.E. COR. N. END 'L' TYPE CONC. HDW. 37' LT. STA. 670+96

81 CU. YDS. OF SALVAGED ROAD MATERIAL REQD.

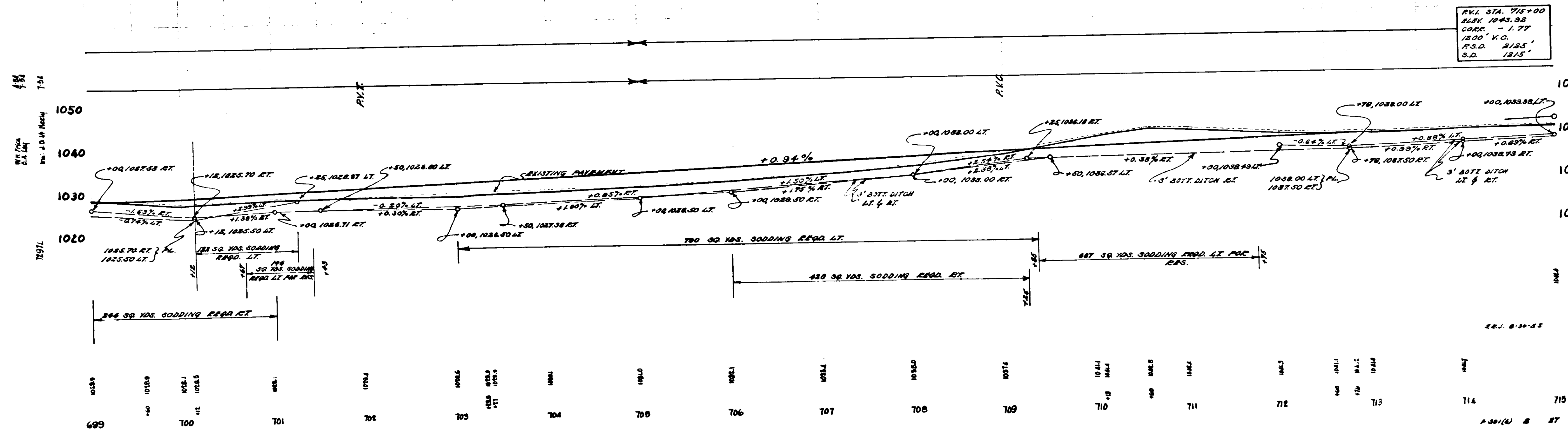
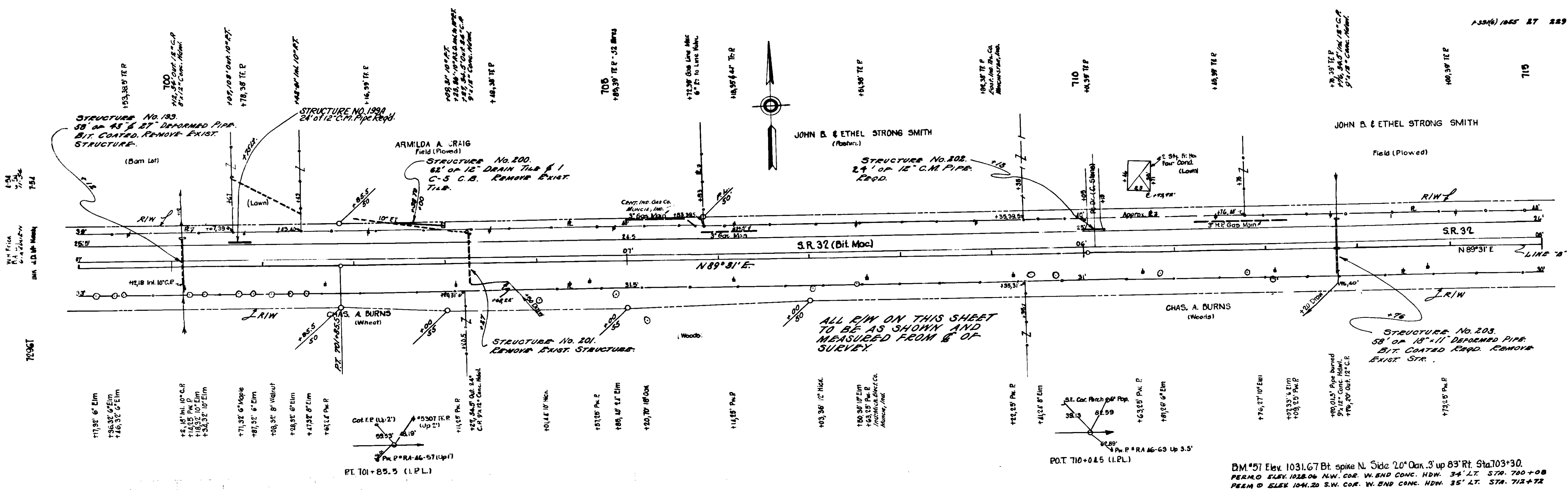
BALANCE NO. 14

P.K. STA. 677+00
BLK. 1033.40
COR. = 0.02'
200' V.C.

OUT 8364 CU. YDS.
FILL +25% 8091 CU. YDS.
SODDING 1266 CU. YDS.
SPECIAL BORROW 2401 CU. YDS.
THE ABOVE BORROW FROM BAL. NO. 16.



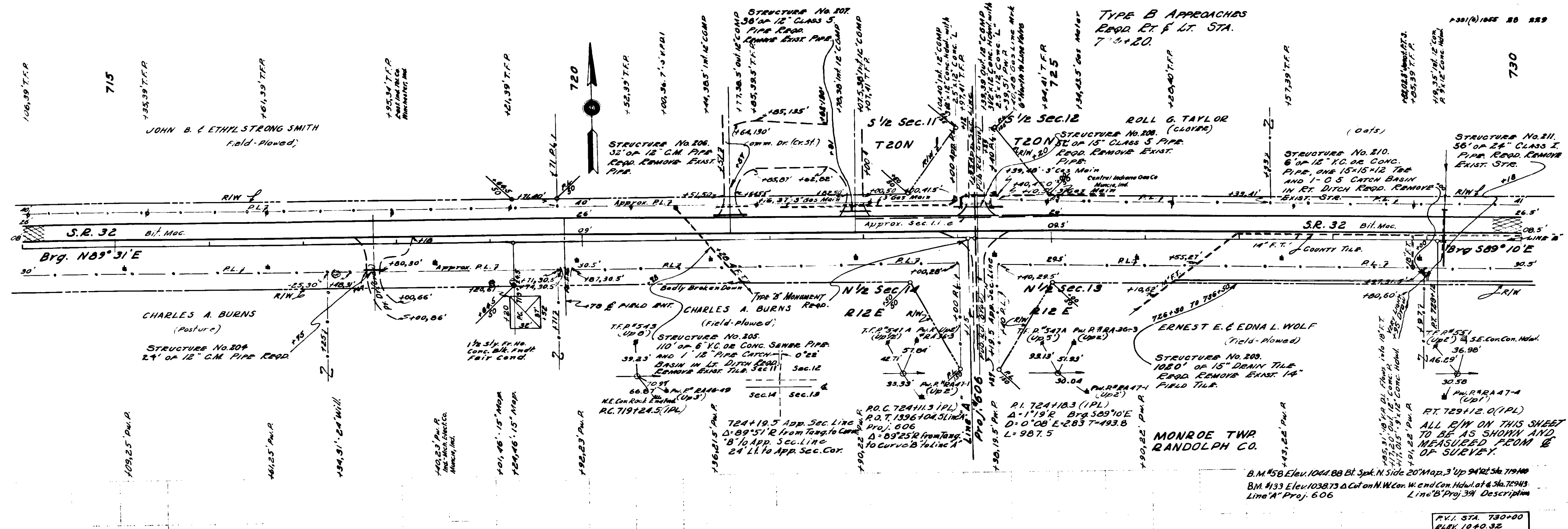
S.P. 8-30-55



P.V.I. STA. 715+00
BLK. 1043.92
CORR. - 1.77
1200' V.O.
P.S.D. 2/25'
S.D. 1215'

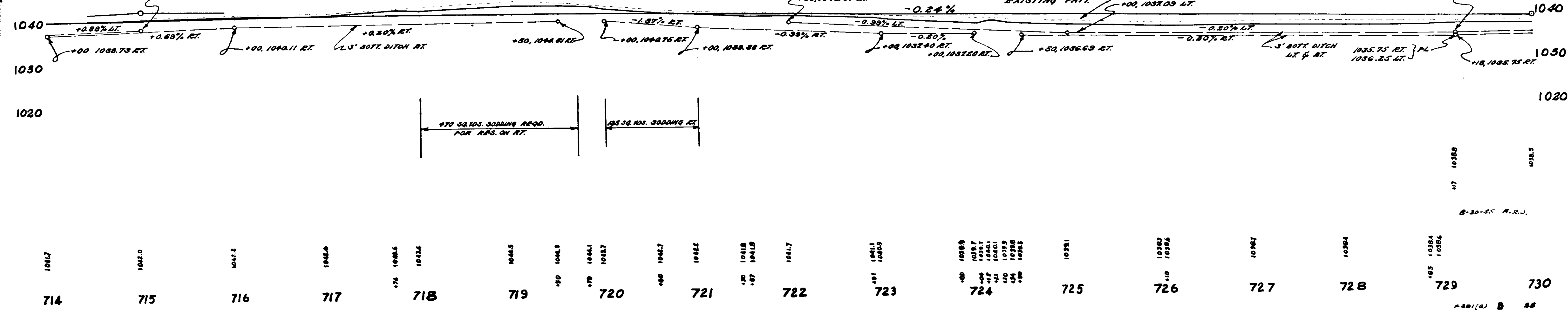
S.S. 8-30-55

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100 CU YDS. SALVAGED ROAD MATERIAL ROAD

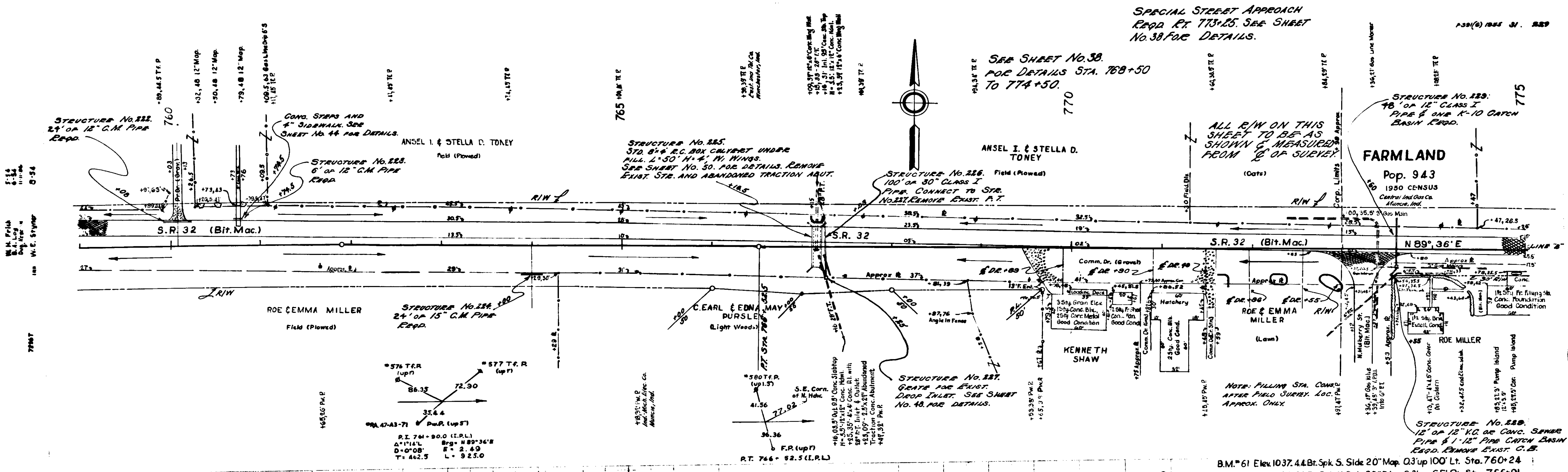
BALANCE NO. 18	
CUT	8826 CU YDS
FILL	3176 CU YDS
OVERHAUL	3650 CU YDS
ADDED MAUL.	1266 UNITS
2584 CU YDS. OF THE ABOVE WAREHOUSE TO BAL. 15.	
1266 CU YDS. OF THE ABOVE OVERHAUL TO BAL. 16.	



B.M. #58 Elev. 1044.88 Bl. Spk. N. Side 20' Map. 3' up 9412 Sta. 71940
 B.M. #133 Elev. 1038.73 Bl. Cut on N.W. Cor. W. end Con. Hd. lat. 4 Sta. 72943
 Line 'A' Proj. 606 Line 'B' Proj. 391 Description

PVI STA. 730+00
 EL. 1043.92
 G.O.E. -1.77'
 1800' V.C.
 R.S.D. 8/85
 S.D. 1215

8-20-55 K.R.J.



SPECIAL STREET APPROACH
REQD. RT. 773+25. SEE SHEET
NO. 38 FOR DETAILS.

SEE SHEET No. 38.
FOR DETAILS STA. 768+50
TO 774+50.

STRUCTURE No. 229:
12' x 12' CLASS I
PIPE & 10' x 10' CATCH
BASIN REQD.

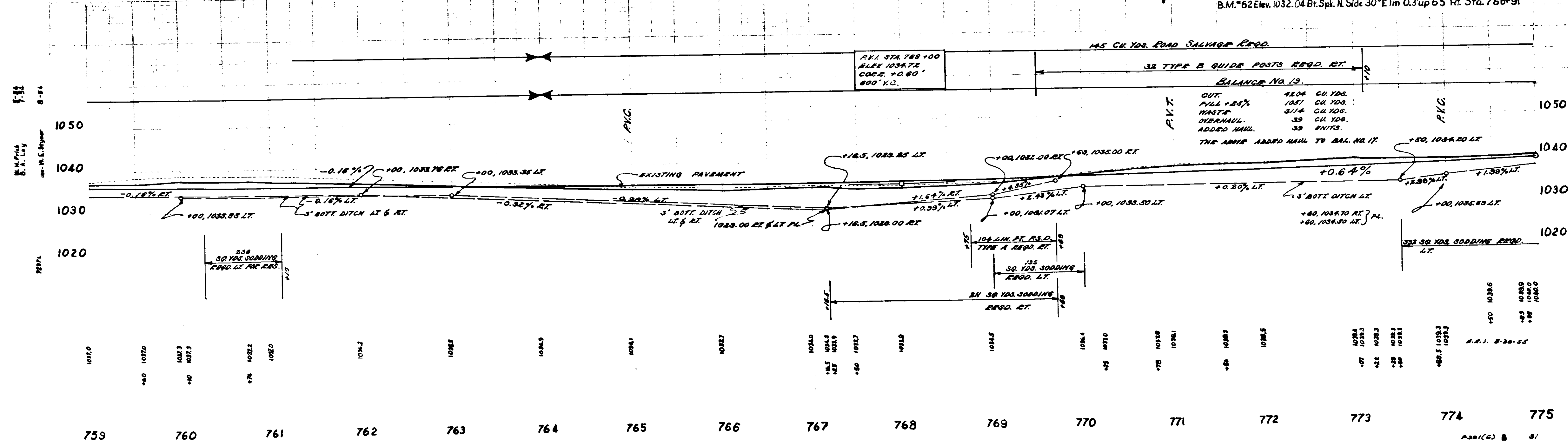
FARMLAND
Pop. 943
1930 CENSUS

ALL R/W ON THIS
SHEET TO BE AS
SHOWN & MEASURED
FROM 1/2" OF SURVEY

NOTE: FILLING STA. CORRS.
AFTER FIELD SURVEY. LOC.
APPROX. ONLY.

STRUCTURE No. 228:
12' x 12' C.C. OR CONC. SEWER
PIPE & 1' x 12' PIPE CATCH BASIN
REQD. REMOVE EXIST. C.B.

B.M. #61 Elev. 1037.44 Br. Spk. S. Side 20" Map. 0.3' up 100' Lt. Sta. 760+24
B.M. #62 Elev. 1032.04 Br. Spk. N. Side 30" E 1m 0.3' up 65' Rt. Sta. 766+91

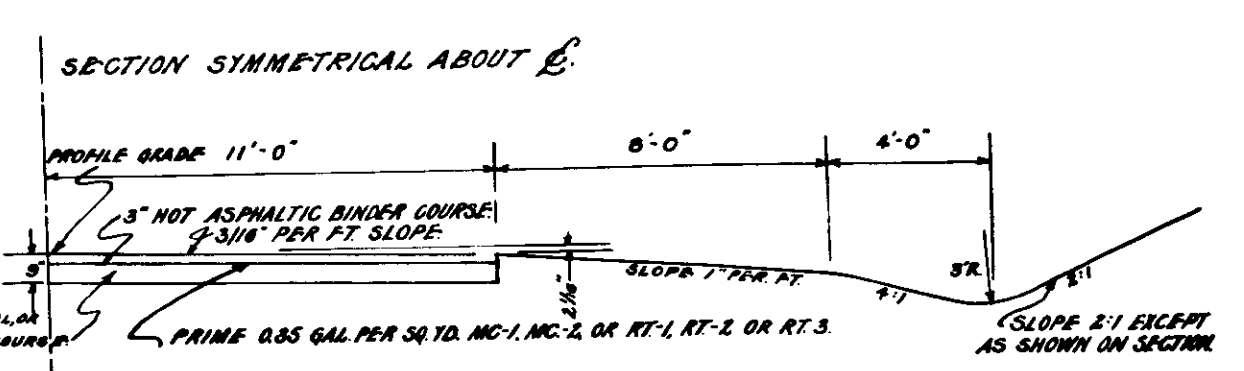
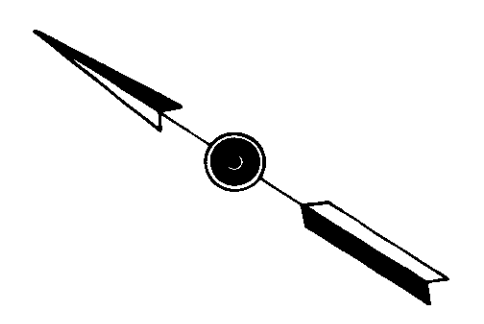
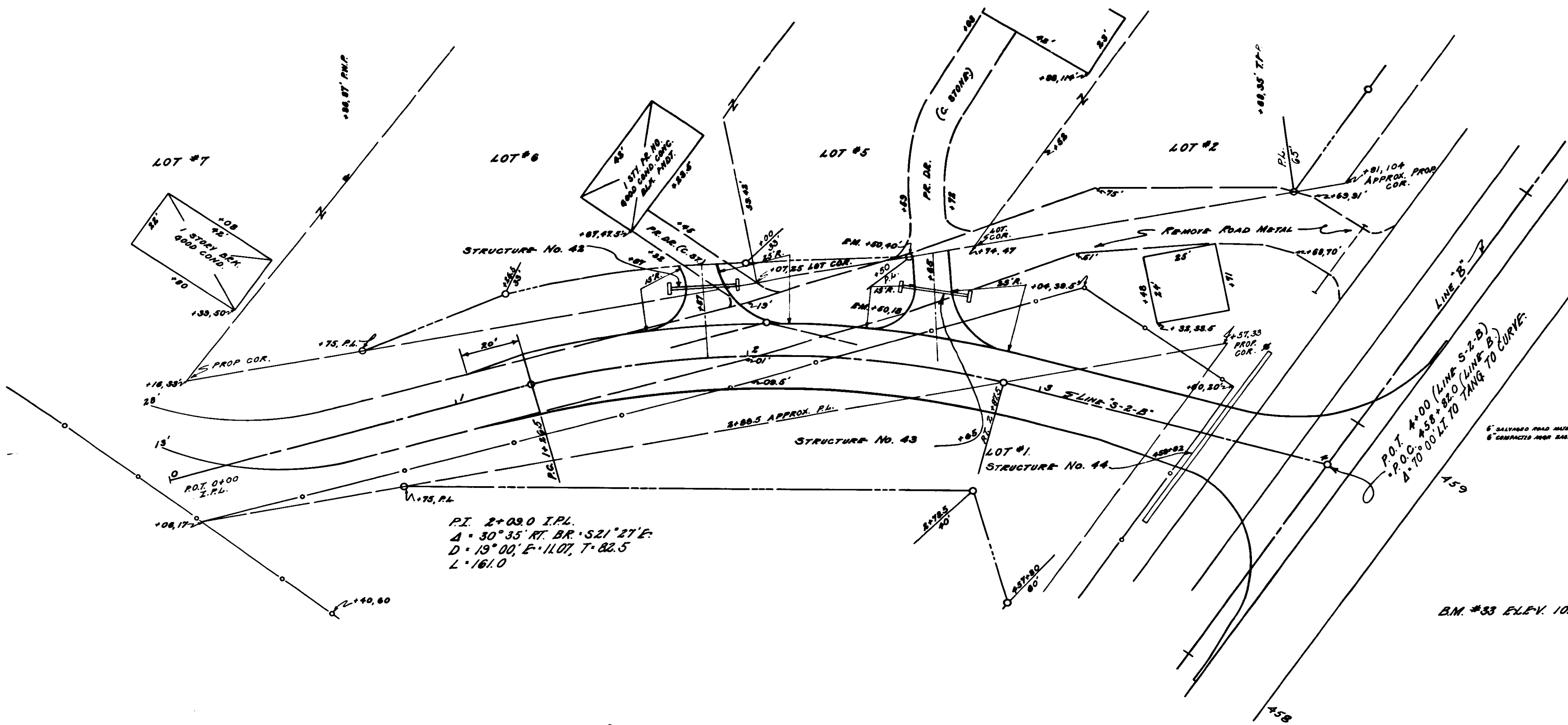


BALANCE No. 19

ITEM	QUANTITY	UNIT PRICE	TOTAL
CUT	4204	CU. YDS.	
FILL	1051	CU. YDS.	
WASTE	3174	CU. YDS.	
DYKEMAN	39	CU. YDS.	
ADDED MAUL	39	UNITS	

THE ABOVE ADDED MAUL TO BAL. NO. 17.

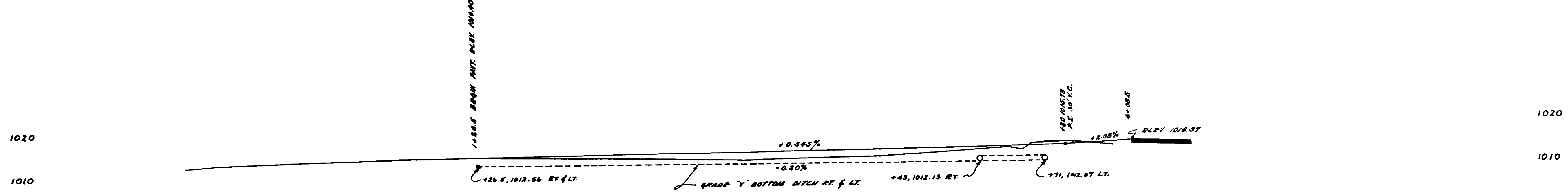
759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775



SECTION FOR SIDEROADS.
SCALE: 1/4" = 1'-0"

ALL R/W ON THIS SHEET TO
B.E. AS SHOWN AND MEASURED
FROM E OF SURVEY.

B.M. #33 ELEV. 1015.26, HI. POINT TOP BOLT S.E. FACE OF S. LEG OF STEEL.
TOWER #60, 55' LT. STA. 459+00.

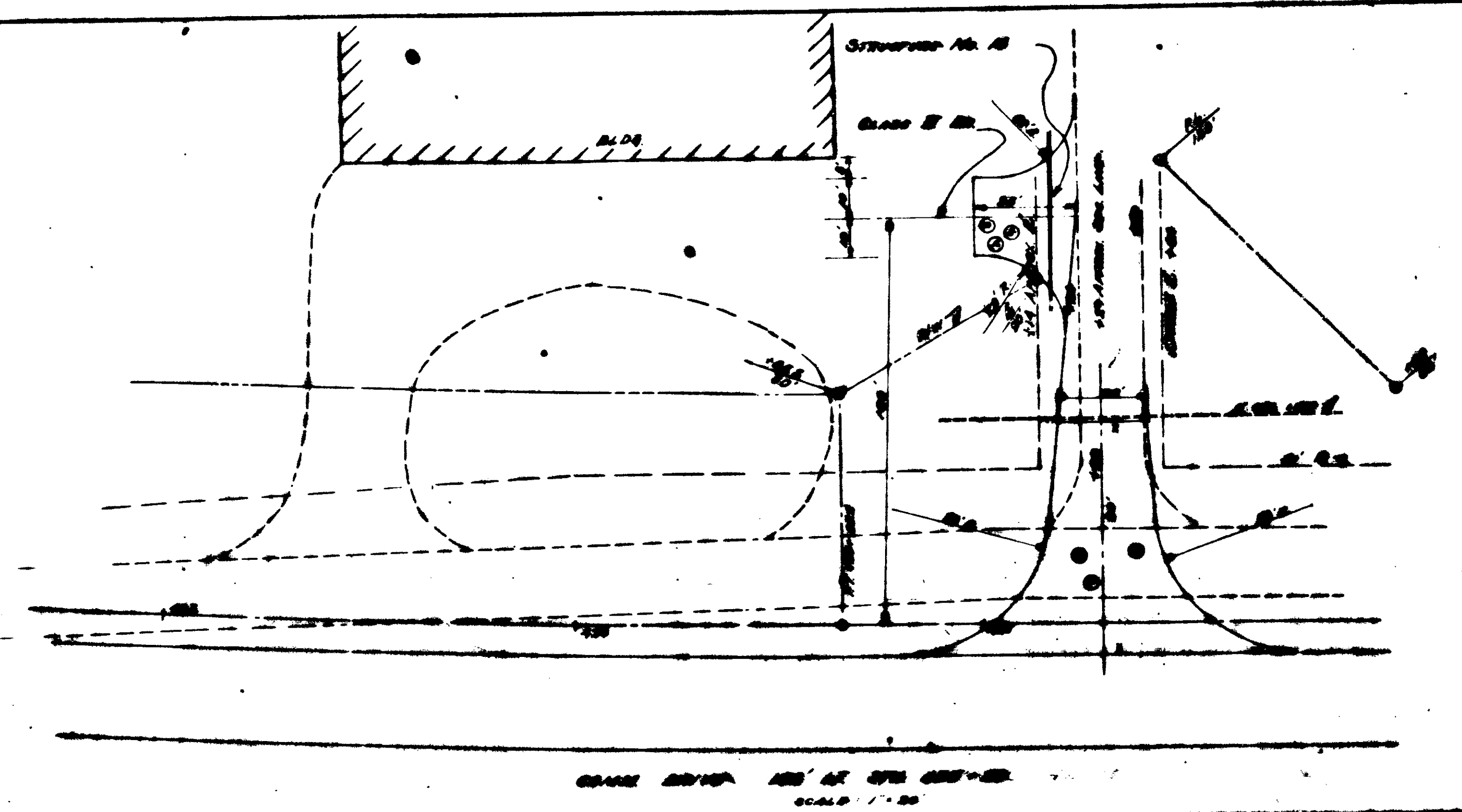


S-2-B

1014.0	1014.5	1014.8	1015.0	1015.2	1015.5	1015.8	1016.0	1016.2	1016.5
0	1	2	3	4	5	6	7	8	9

8-20-55 R.R.J.

ADD(2) 0-2-B-33

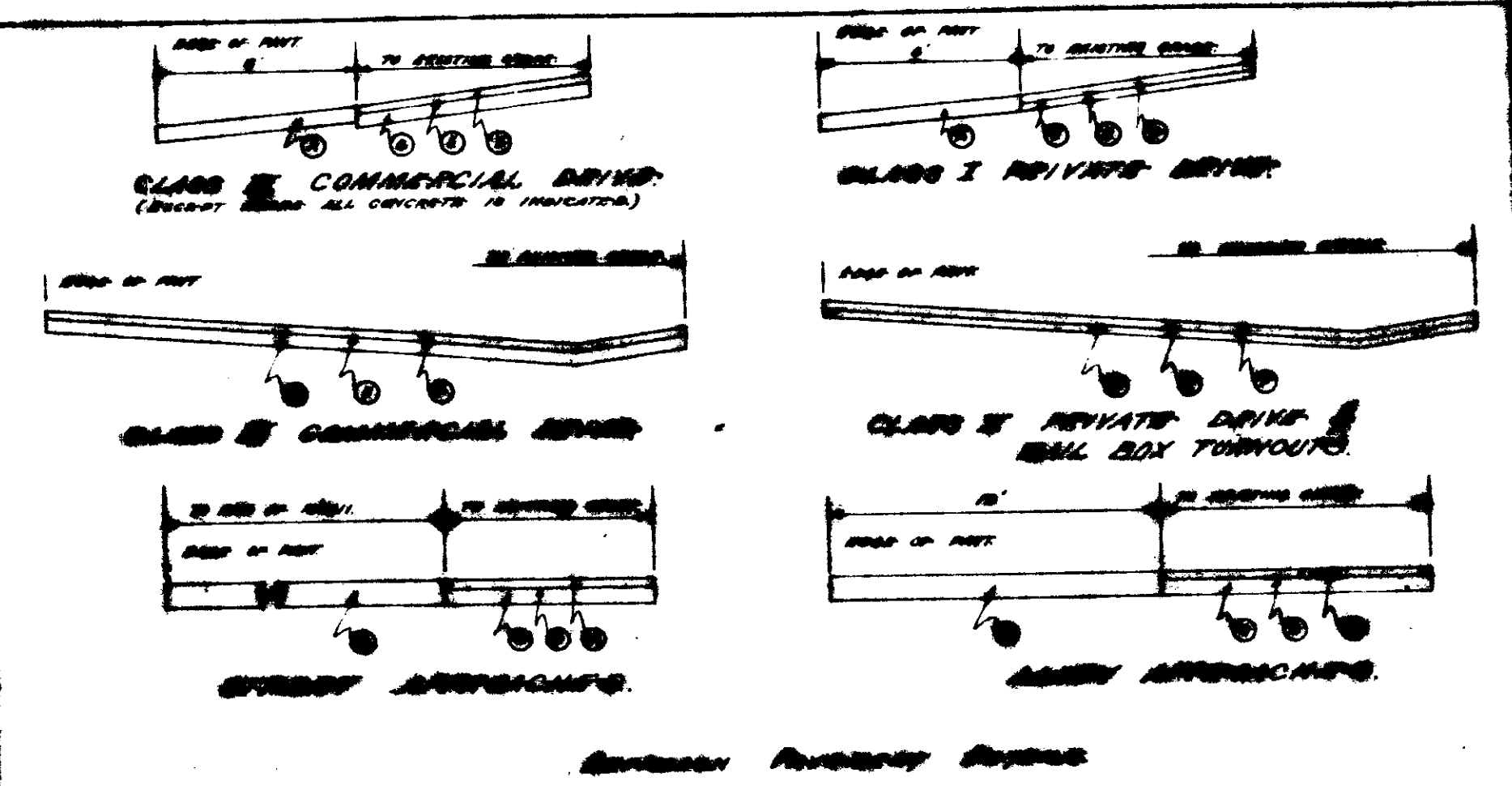


CLASS II BRIDGE 100' AT STA 545+00
SCALE: 1" = 20'

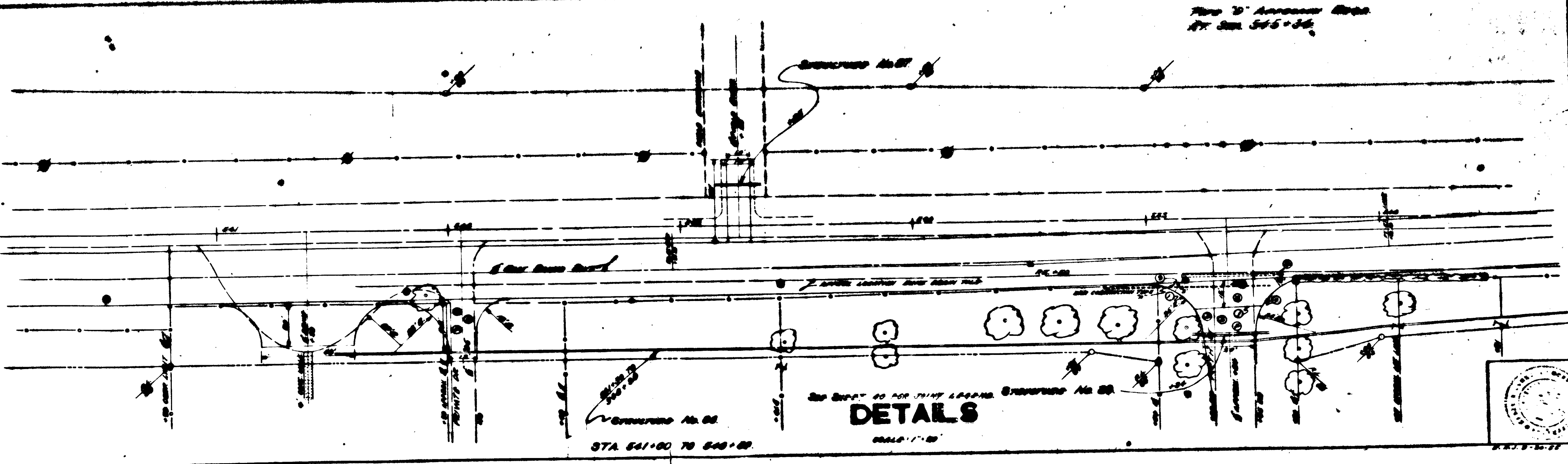
ADDITIONAL QUANTITIES
 6" SAL. ROAD MAT OF CORR. ASPHALTIC SAND 200.5 SQ. YD.
 2 1/2" INT. ASPHALTIC CONCRETE BINDER COURSE 81.1 TONS.

STATE	NO.	DATE	BY	CHKD.	DATE
IND	5916	1955	SA	EE9	

SECTION THREE: STABILIZED SUBGRADE
 STATION 545+15 TO 545+60.5
 SCALE: 1" = 5'

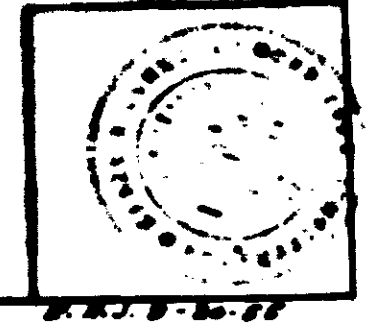


- 6" Plain Concrete
- 5" Salinated Road Mat. at
- 3" Contracted Aggregate Base
- 6" Salinated Road Mat. at
- 5" Contracted Aggregate Base
- 6" Salinated Road Mat. at
- 5" Contracted Aggregate Base
- 6" Salinated Road Mat. at
- 5" Contracted Aggregate Base
- 6" Salinated Road Mat. at
- 5" Contracted Aggregate Base
- 6" Salinated Road Mat. at
- 5" Contracted Aggregate Base

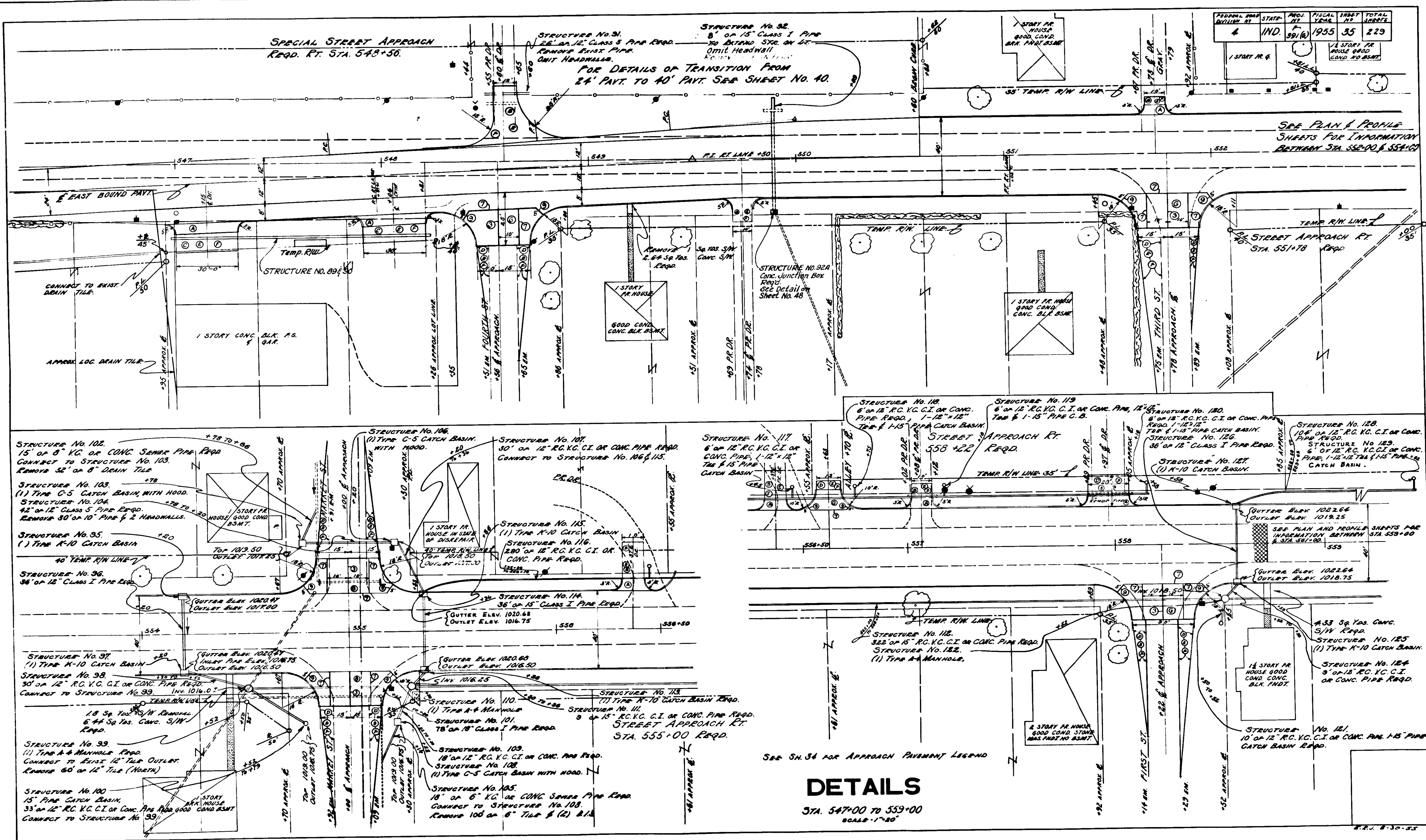


DETAILS
 SCALE: 1" = 20'

STRUCTURE NO. 49
 STA. 541+00 TO 542+00



FEDERAL AID DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	591(6)	1955	35	229



DETAILS

STA. 547+00 TO 553+00
SCALE 1"=80'

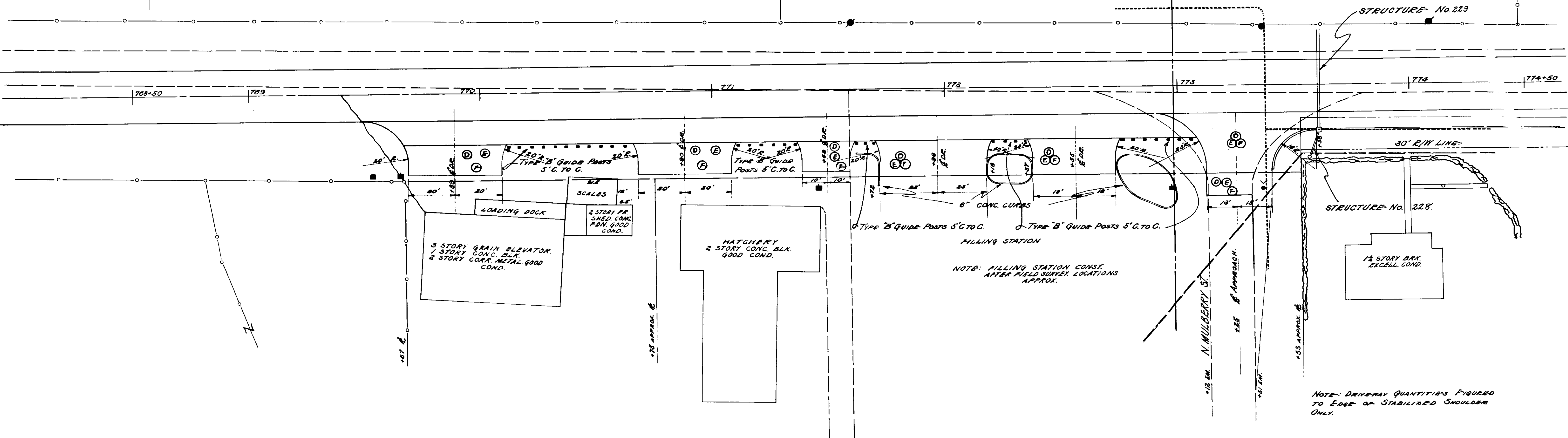
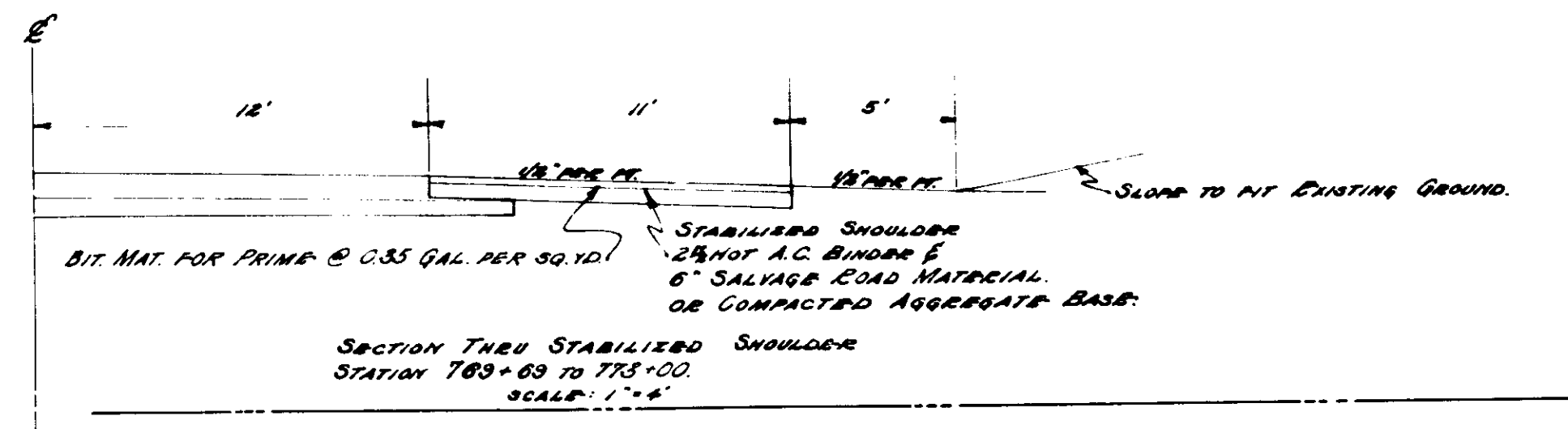
SEE SH. 34 FOR APPROACH PAVEMENT LEGEND

8-30-55

PROJ. DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	891.0	1955	58	229

ESTIMATED ADDITIONAL QUANTITIES
 STA. 769+50 TO 773+58
 STABILIZED SHOULDER STA. 769+50 TO 773+00 RT.
 2 1/2" HOT A.C. BINDER 56.0 TONS.
 6" SALV. ED. MAT. OR CONR. AGGR. BASE. 4268 SQ. YDS.

SPECIAL STREET APPROACH
 REQD. RT. STA. 773+25



SEE SHEET 34 FOR APPROACH PAVEMENT LEGEND.

DETAILS

STA. 768+50 TO 774+50
 SCALE: 1"=20'

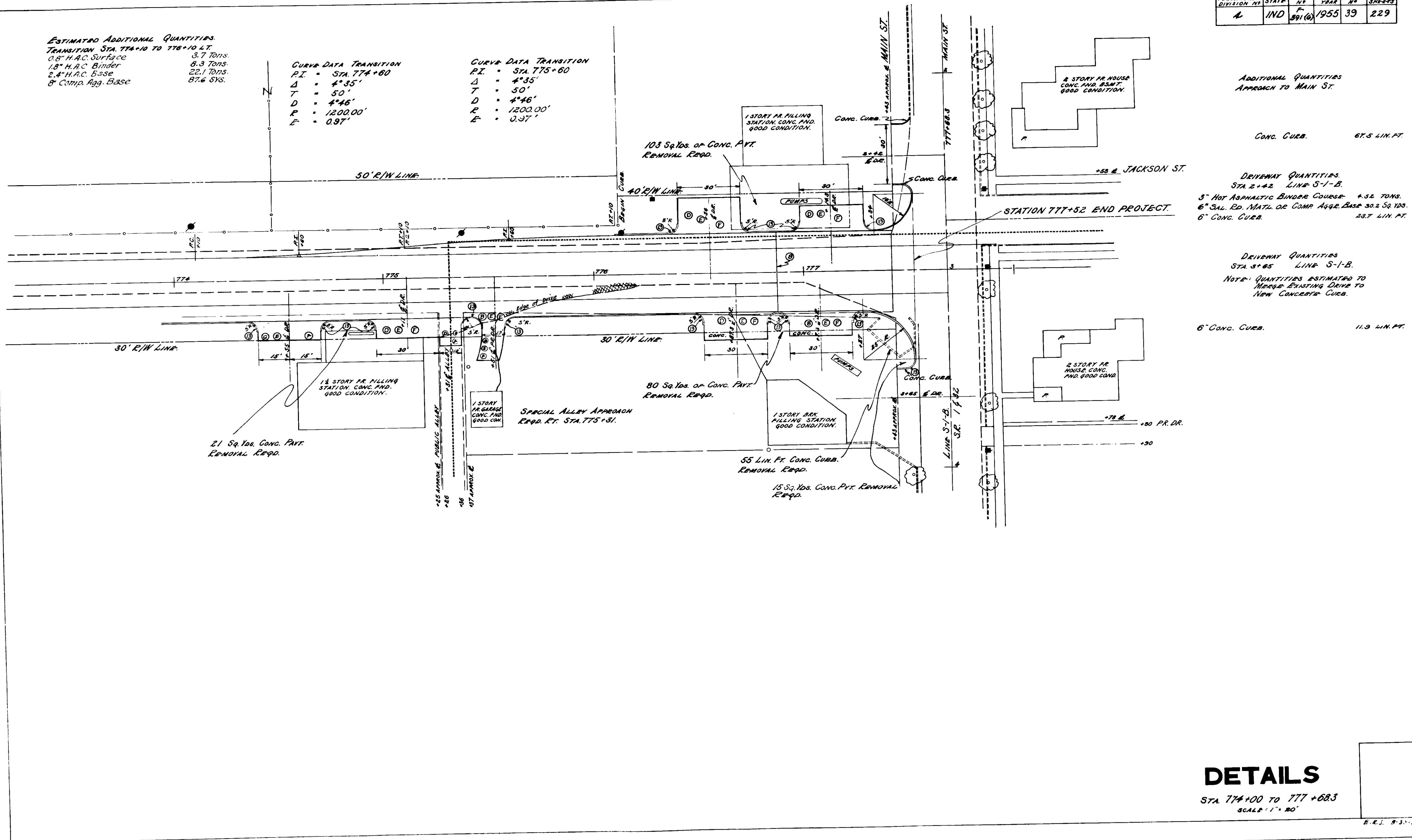
NOV 30 1955

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	PHYSICAL YEAR	SHEET NO.	TOTAL SHEETS
A	IND	891(6)	1955	39	229

ESTIMATED ADDITIONAL QUANTITIES
 TRANSITION STA. 774+00 TO 778+00 L.T.
 0.8" H.A.C. Surface 3.7 TONS
 1.8" H.A.C. Binder 8.3 TONS
 2.4" H.A.C. Base 22.1 TONS
 8" Comp. Agg. Base 87.6 SYS.

CURVE DATA TRANSITION
 P.I. = STA. 774+60
 Δ = 4°35'
 T = 50'
 D = 4°46'
 P = 1200.00'
 E = 0.97'

CURVE DATA TRANSITION
 P.I. = STA. 775+60
 Δ = 4°35'
 T = 50'
 D = 4°46'
 P = 1200.00'
 E = 0.97'



ADDITIONAL QUANTITIES
 APPROACH TO MAIN ST.

CONC. CURB. 67.5 LIN. FT.

DRIVEWAY QUANTITIES
 STA. 2+42 LINE S-1-B.

3" HOT ASPHALTIC BINDER COURSE 4.52 TONS
 6" SAL. ED. MATL. OR COMP. AGG. BASE 30.2 SQ. YDS.
 6" CONC. CURB. 23.7 LIN. FT.

DRIVEWAY QUANTITIES
 STA. 5+85 LINE S-1-B.

NOTE: QUANTITIES ESTIMATED TO
 ADJUST EXISTING DRIVE TO
 NEW CONCRETE CURB.

6" CONC. CURB. 11.9 LIN. FT.

DETAILS

STA. 774+00 TO 777+68.3
 SCALE: 1" = 80'

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1331(6)	1955	40	229

TRANSITION SECTION LT. EDGE PAVT.
Sta. 548+20 to 551+02.71
3" H.A.C. Binder Course 27.6 Tons
6" Salv. Rd. Mat'l. or Comp. App. Base 176.25 Ys.

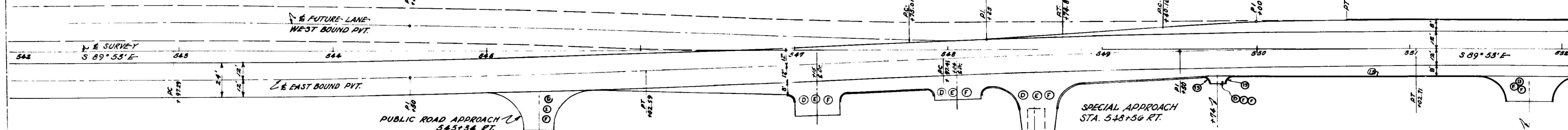
EXTENDED SECTION RT. EDGE
Sta. 548+80 to 551+02.71
3" H.A.C. Binder Course 26.2 Tons
6" Salv. Rd. Mat'l. or Comp. App. Base 166.33 Ys.

CURVE DATA - LT. EDGE TRANS.
PI 548+25
Δ 1°53'
D 1°53'
T 50'
R 3048.78'
PC 547+75
PT 548+74.07

CURVE DATA - LT. EDGE TRANS.
PI 550+00
Δ 4°10'
D 3°28'
T 60'
R 1049.26'
PC 549+40.10
PT 550+60

FOR DRIVE & APPROACH
DETAILS SEE SHEET
NO 34 & 35

6" CURVE DATA FUTURE PVT. LT. LANE-
PI STA. 544+50
SAME AS RT. LANE-



CURVE DATA & RT. LANE-
PI STA 544+50
Δ 2°17' LT.
D 0°45'
T 152.71
R 7939.44'
L 305.44
PC 542+97.29
PT 546+02.59

NOTE:
ALL STA. NOTED FROM 6" SURVEY

- ① 3" Salv. Rd. Mat'l. or 3" Comp. App. Base
- ② 6" Salv. Rd. Mat'l. or 6" Comp. App. Base
- ③ B.H. Mat'l. For Prime @ 0.50 Gal/SY.
- ④ 3" Hot Asphaltic Binder Course
- ⑤ Concrete Curb

CURVE DATA & RT. LANE-
PI 549+50
Δ 2°17' RT.
D 0°45'
T 152.71
R 7939.44'
L 305.44
PC 547+97.41
PT 551+02.71

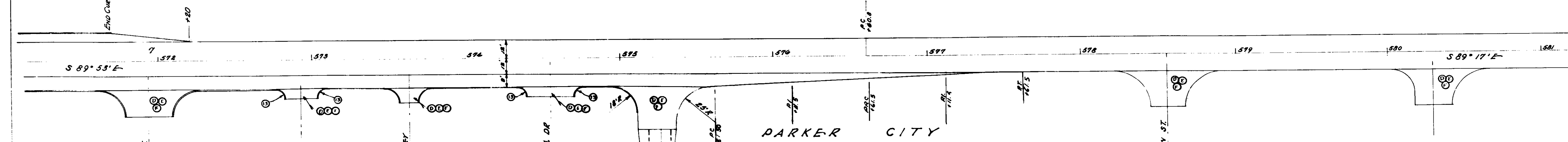
DETAIL OF TRANSITION FROM 24' SECTION
TO 40' CURB SECTION, STA. 542+97.29 TO 551+02.71
SCALE: 1" = 30'

ADDITIONAL QUANTITIES
Transition Sta. 571+70 to 572+20 LT.
3" H.A.C. Binder Course 36 Tons
6" Salv. Rd. Mat'l. or Comp. App. Base 226.5 Ys.

ADDITIONAL QUANTITIES
Transition Sta. 575+61.5 to 577+61.5
3" H.A.C. Binder Course 14.2 Tons
6" Salv. Rd. Mat'l. or Comp. App. Base 50.25 Ys.

CURVE DATA & SURVEY
PI 581+10.8
Δ 0°56' RT.
D 0°04'
T 118'
R 450'
L 900'

FOR DRIVE & APPROACH DETAILS
SEE SHEET NO 36 & 37.

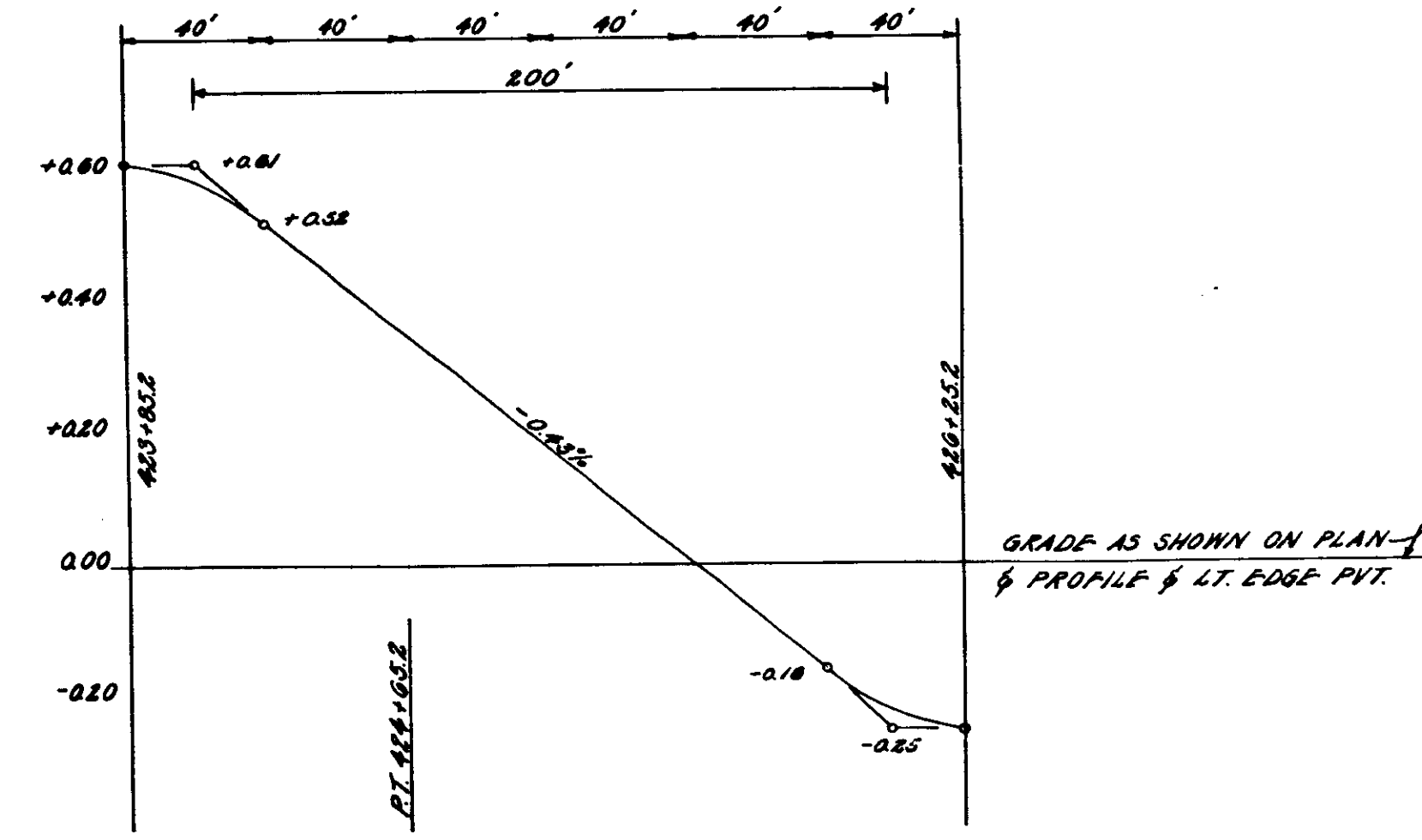
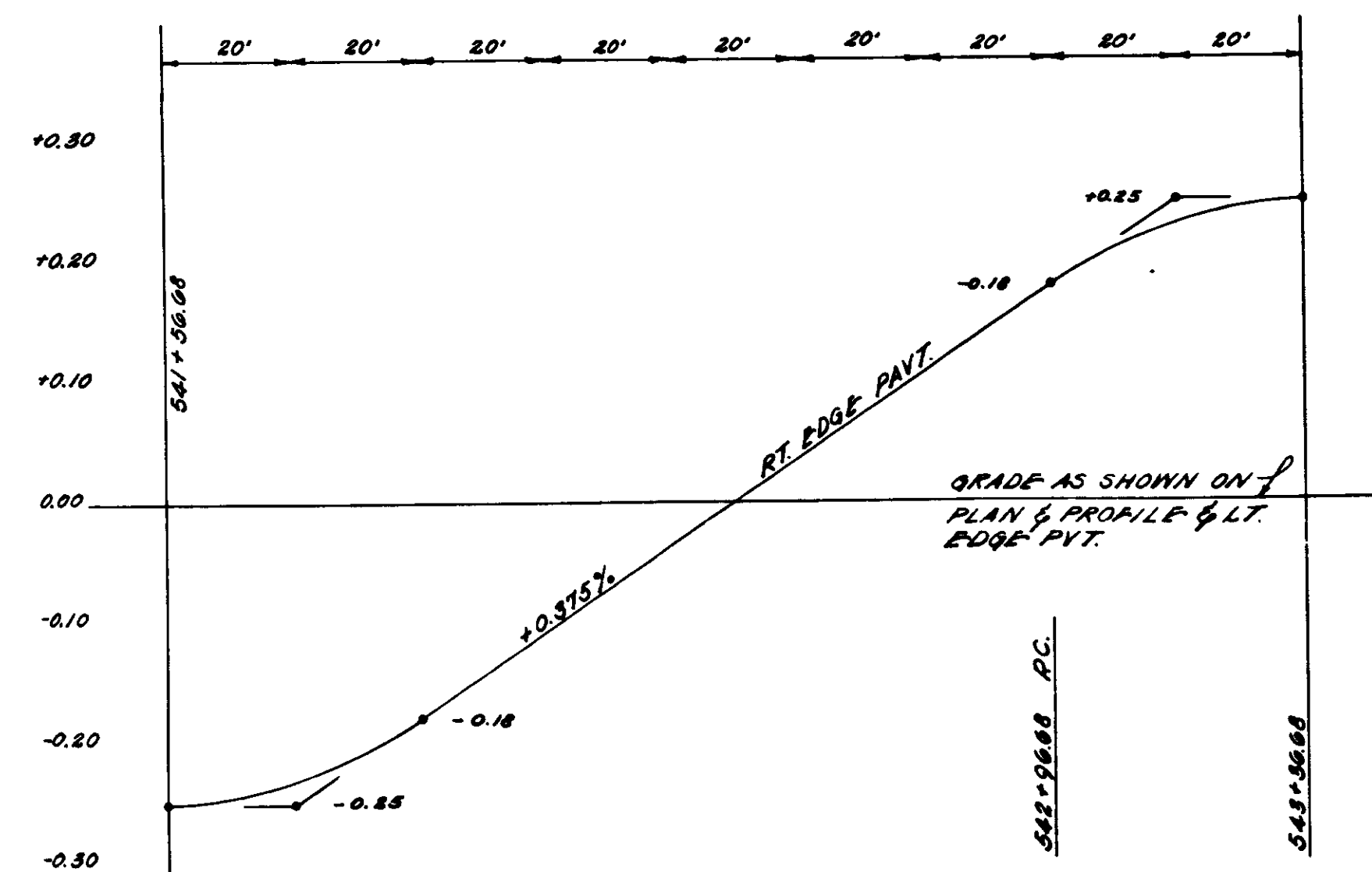
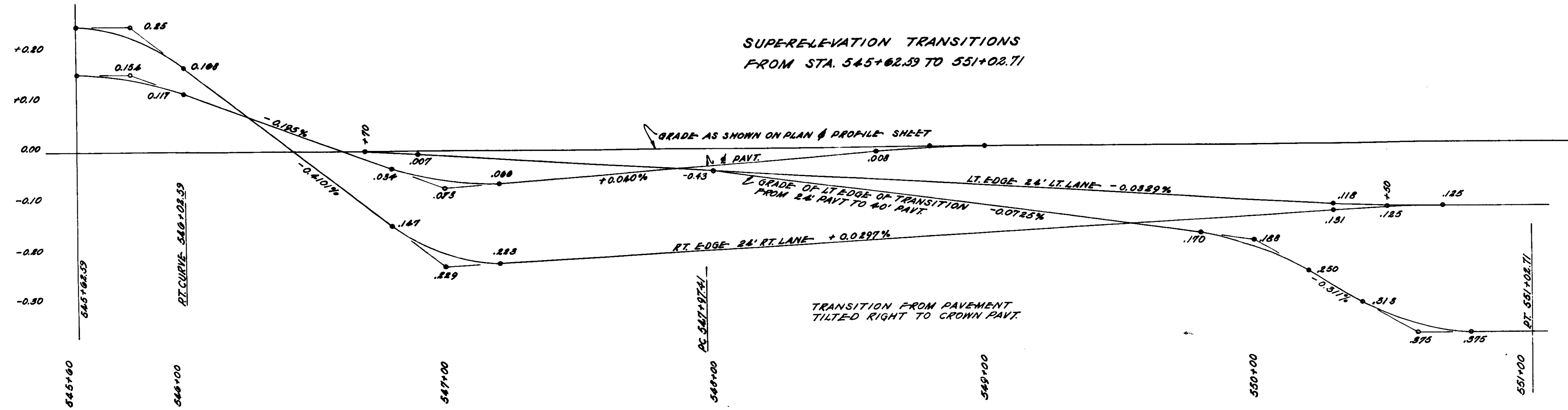


RESIDENCE ST. APPROACH - STA 575+24.50 RT.
6" SALVAGE ROAD MATERIAL BASE COURSE: 137.9 Sq. Yds.
3" HOT ASPHALTIC BINDER COURSE: 21.2 TONS.

CURVE DATA - RT. EDGE TRANSITION - CURVE DATA
PI 576+11.5
Δ 4°35'
T 50'
D 4°46'
R 1200.00'
E 0.97'

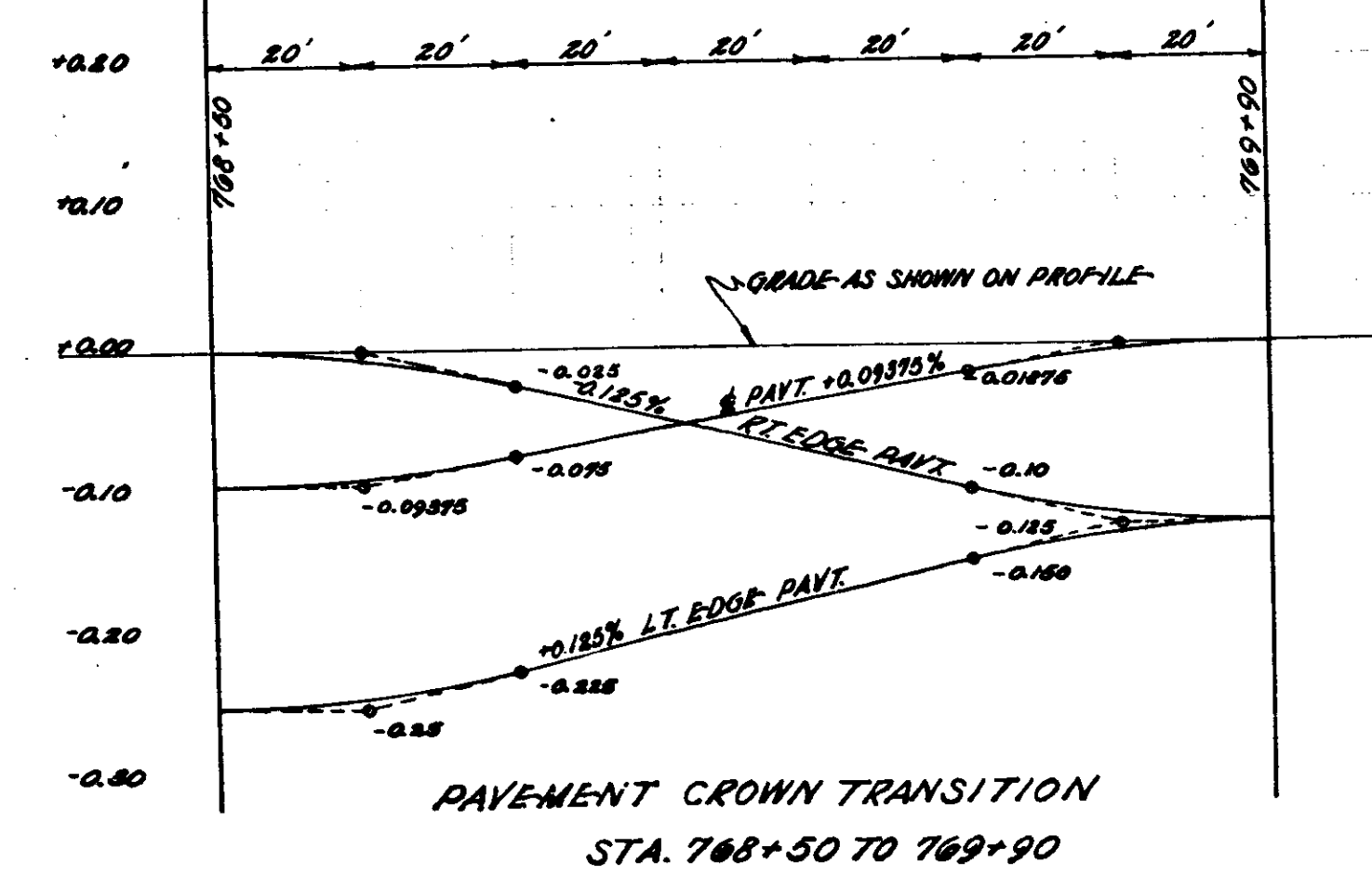
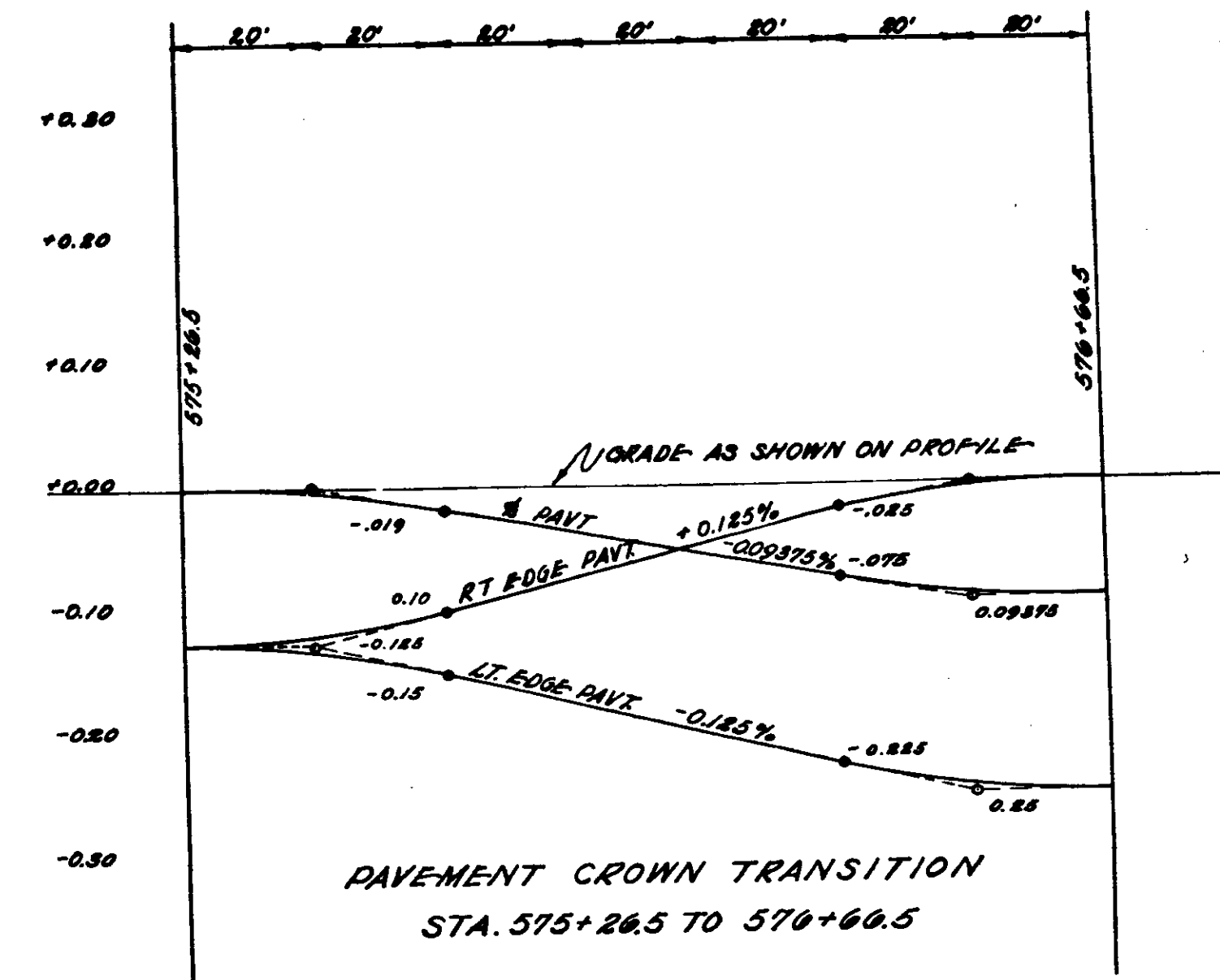
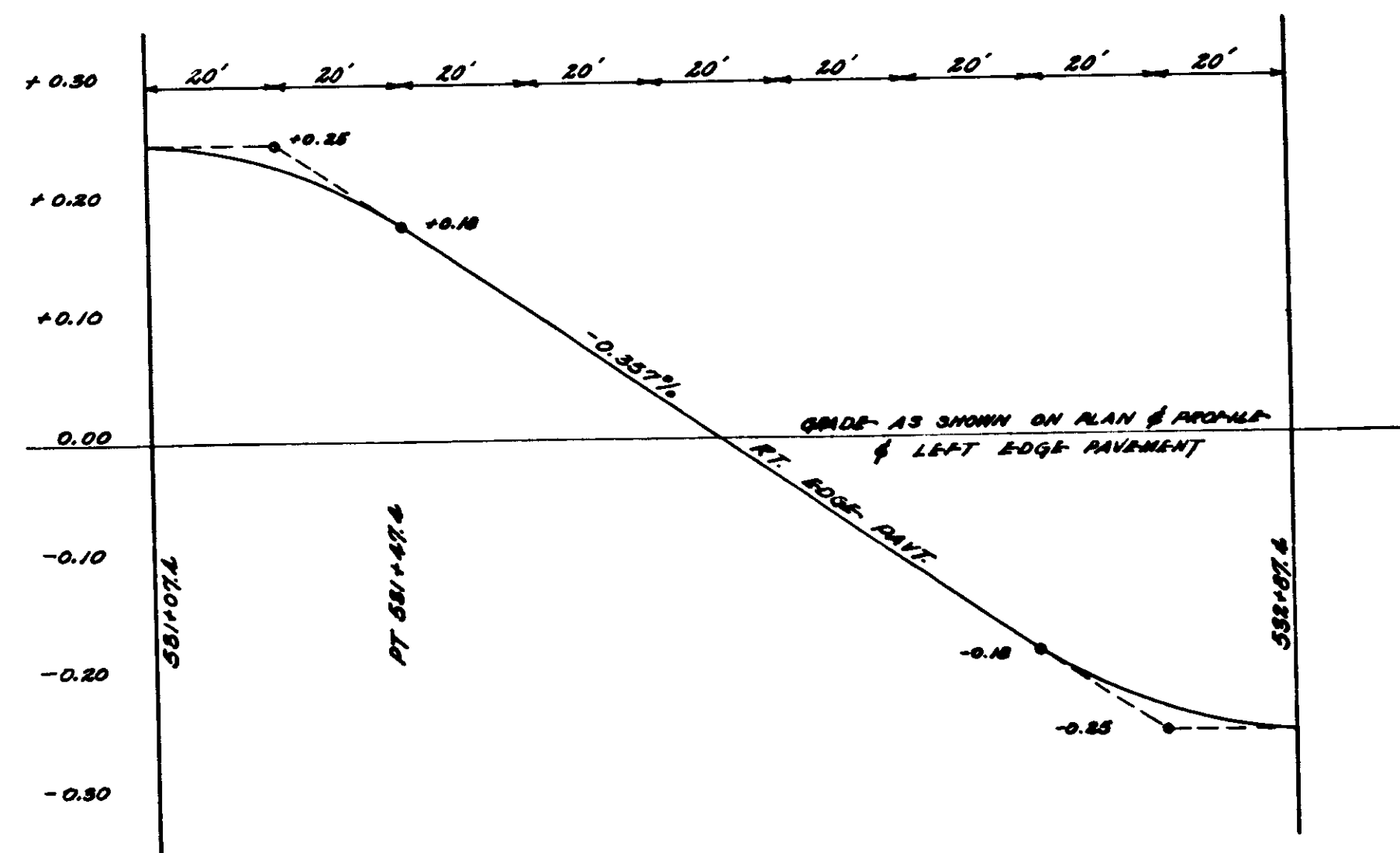
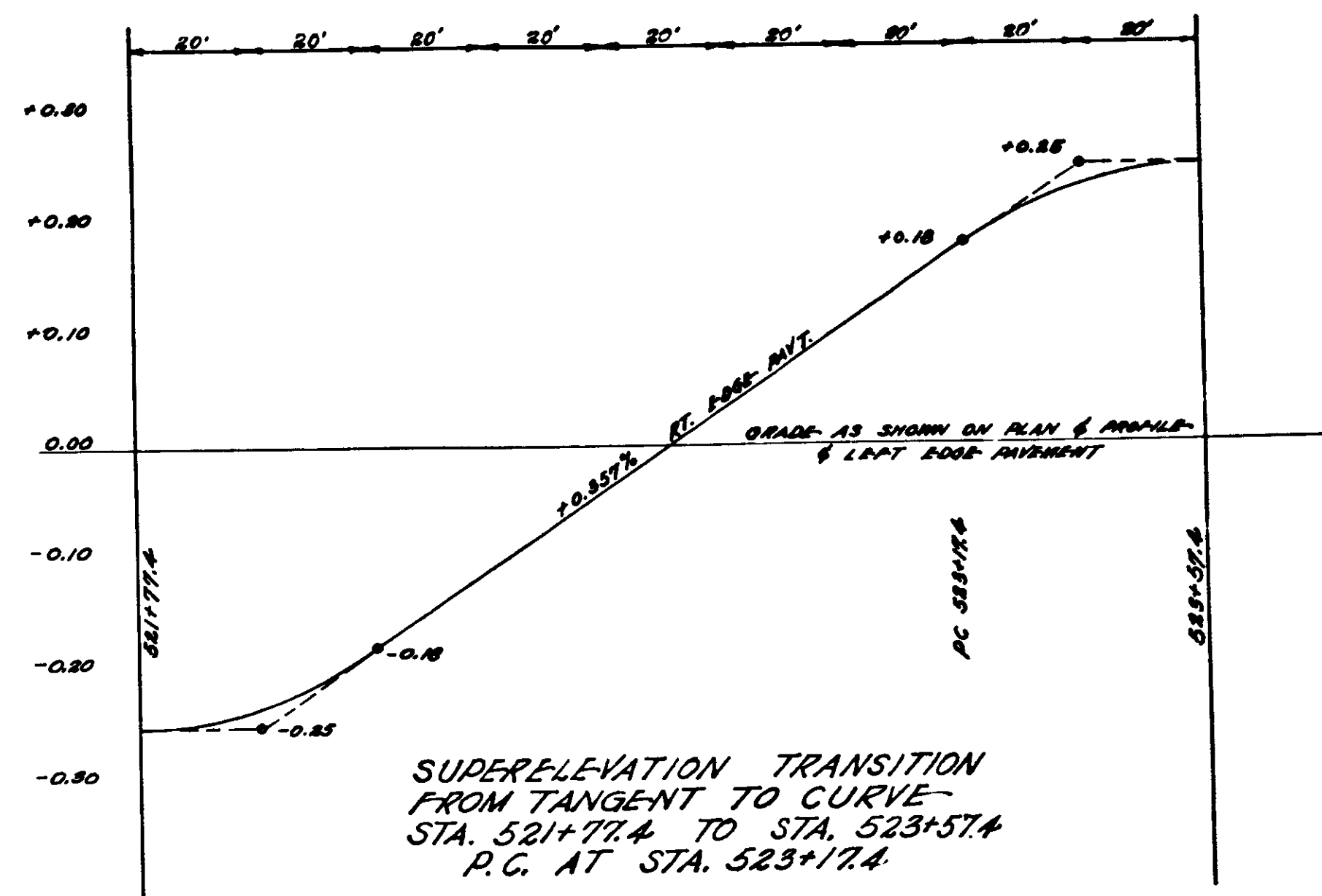
DETAIL OF TRANSITION FROM 40' CURB SECTION
TO 24' SECTION, STA. 571+70 TO 577+61.50
SCALE: 1" = 30'

DETAILS
SCALE: 1" = 30'

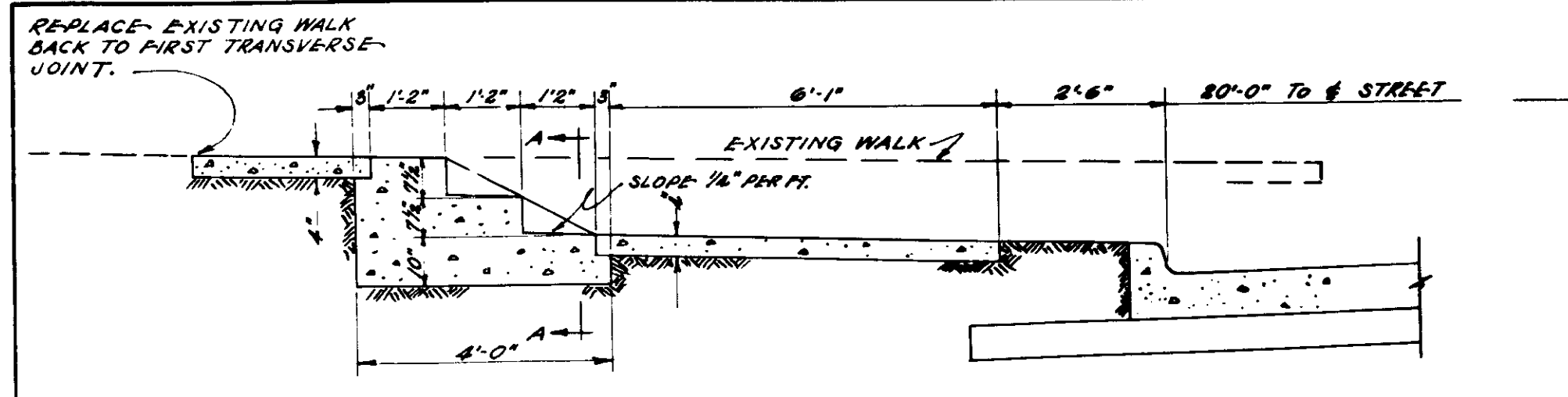


**CROWN AND SUPERELEVATION
TRANSITIONS**

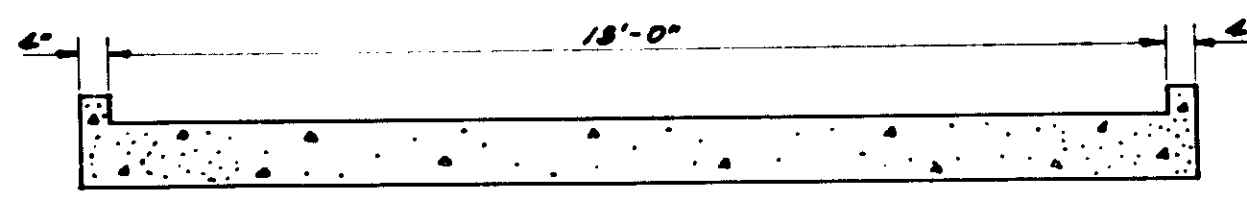
INWFO 1-28-55 888R



CROWN AND SUPERELEVATION TRANSITIONS



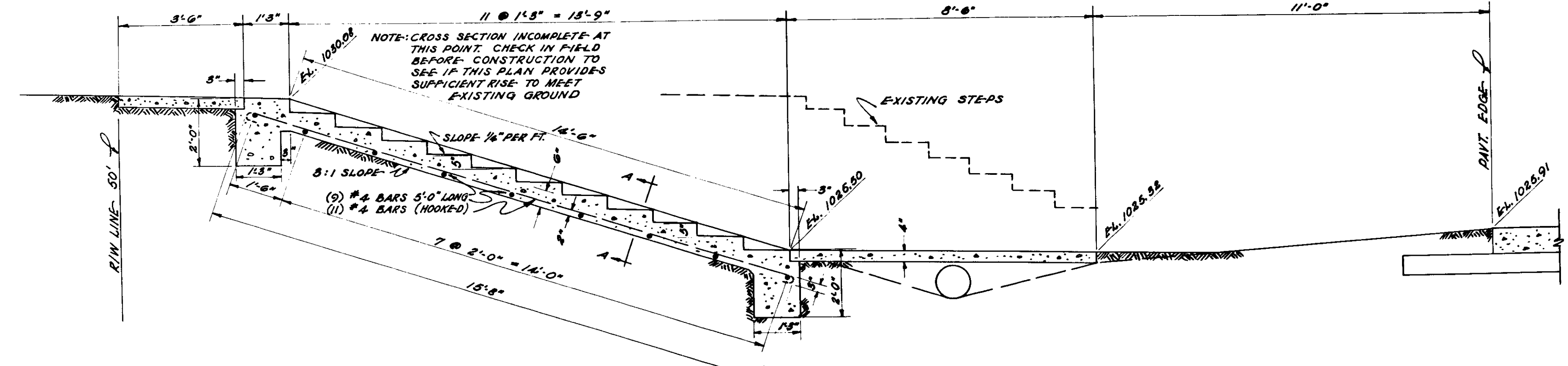
DETAIL OF CONCRETE STEPS LT. STA. 569+24



SECTION A-A

ESTIMATED QUANTITIES
 WALK REMOVAL 24.0 Sq. Yd.
 CEMENT CONCRETE SIDEWALK - 4" 4.0 Sq. Yd.
 CONCRETE FOR STRUCTURES, CLASS "D" 2.9 Cu. Yd.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	A38/64	1955	44	228

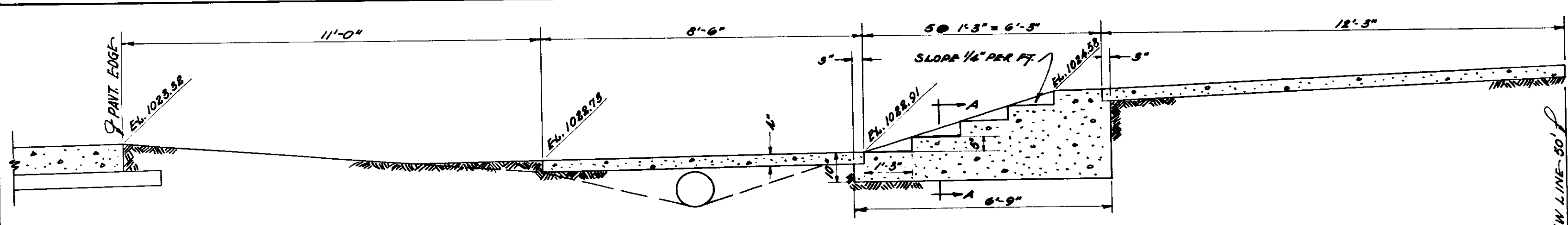


DETAIL OF CONCRETE WALK & STEPS LT. STA. 586+77.5

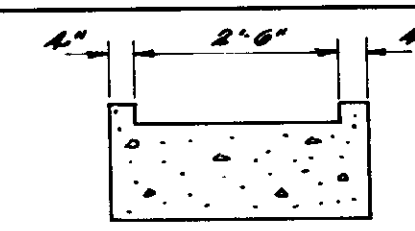


SECTION A-A

ESTIMATED QUANTITIES
 WALK REMOVAL 2.0 Sq. Yd.
 STEPS REMOVAL 4.0 Sq. Yd.
 CEMENT CONCRETE SIDEWALK - 4" 0.7 Sq. Yd.
 CONCRETE FOR STRUCTURES, CLASS "D" 3.0 Cu. Yd.
 REINFORCING STEEL 148 Lb.

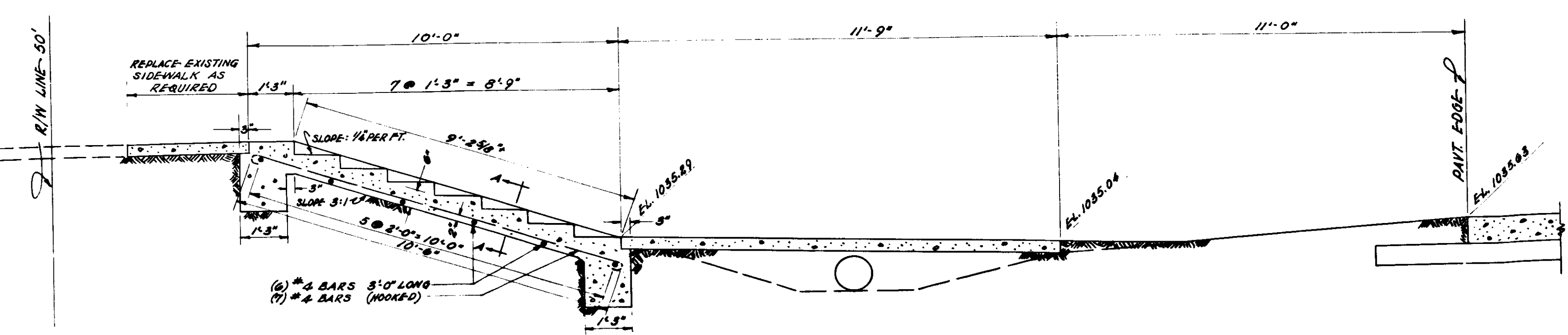


DETAIL OF CONCRETE WALK & STEPS RT. STA. 590+54

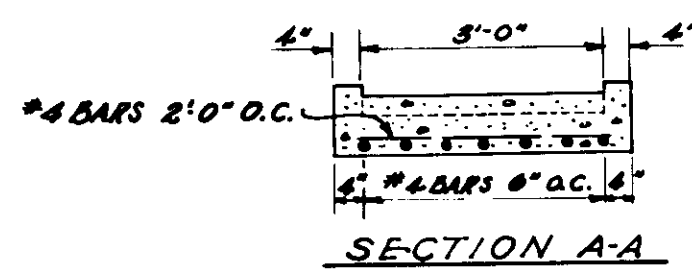


SECTION A-A

ESTIMATED QUANTITIES
 WALK REMOVAL 7.0 Sq. Yd.
 CEMENT CONCRETE SIDEWALK - 4" 5.8 Sq. Yd.
 CONCRETE FOR STRUCTURES, CLASS "D" 1.8 Cu. Yd.



DETAIL OF CONCRETE WALK & STEPS LT. STA. 760+74.5

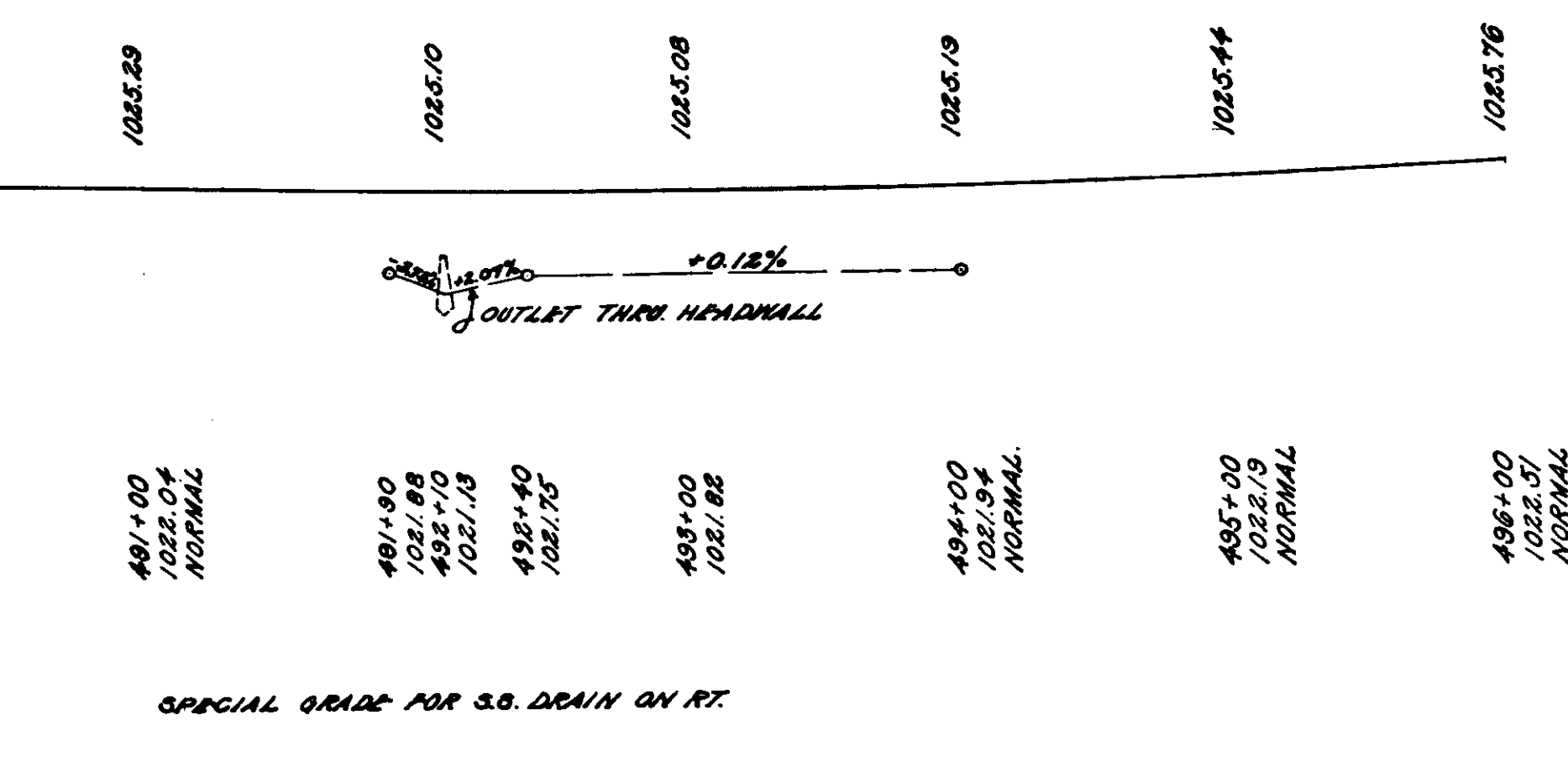
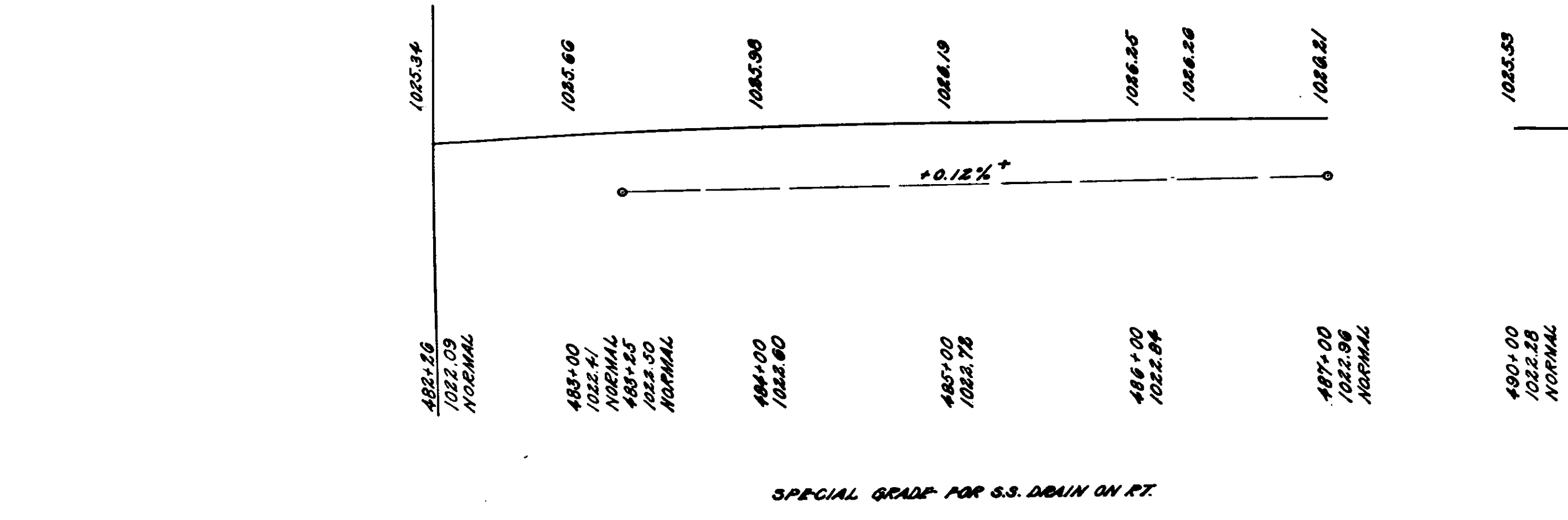
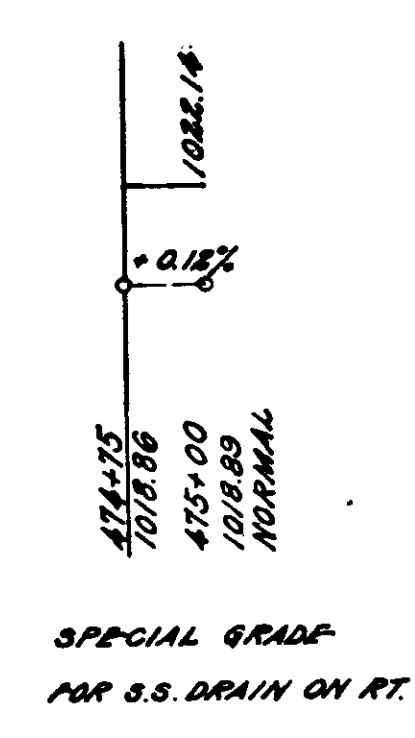
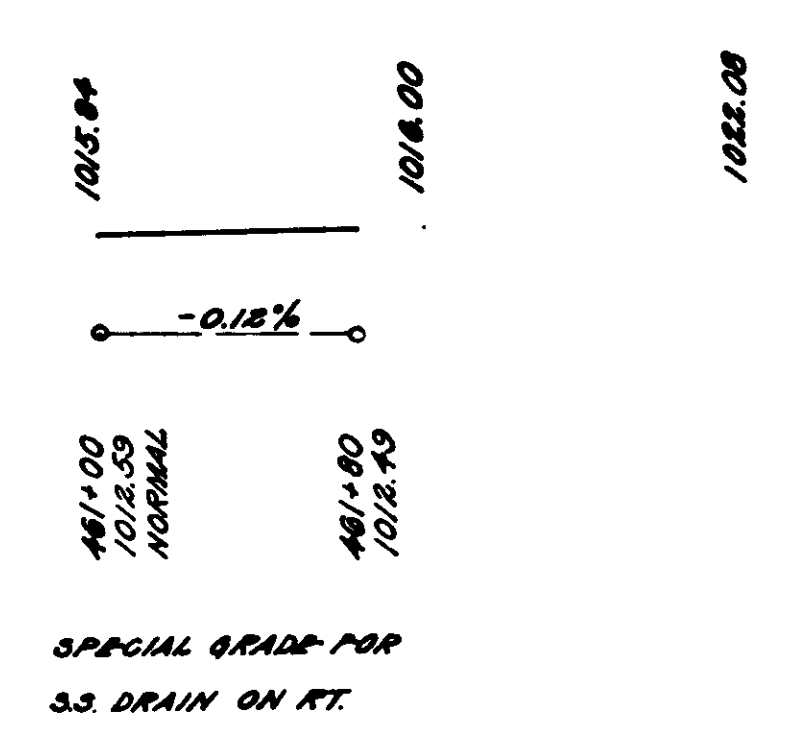
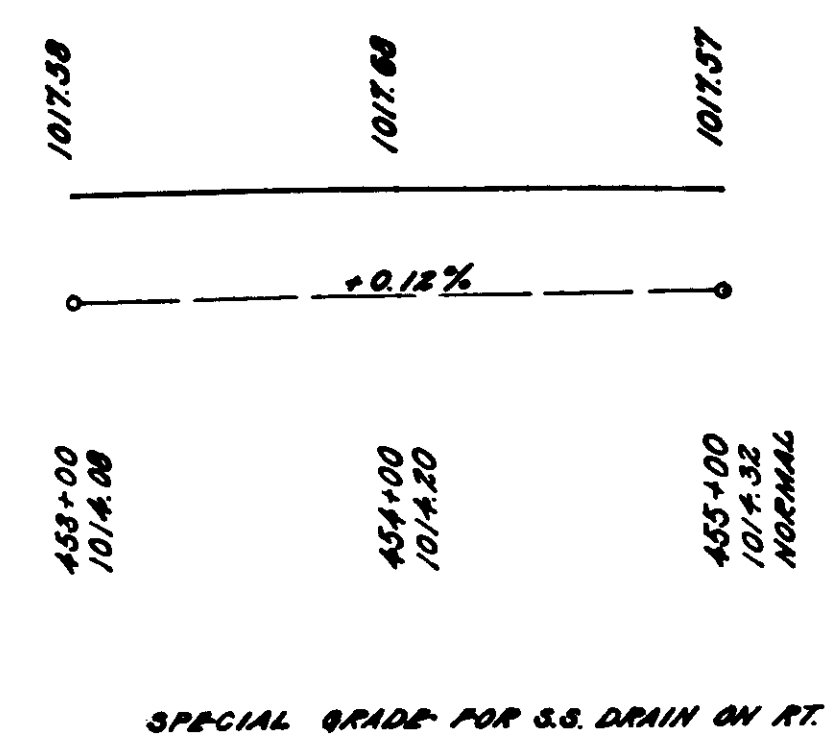
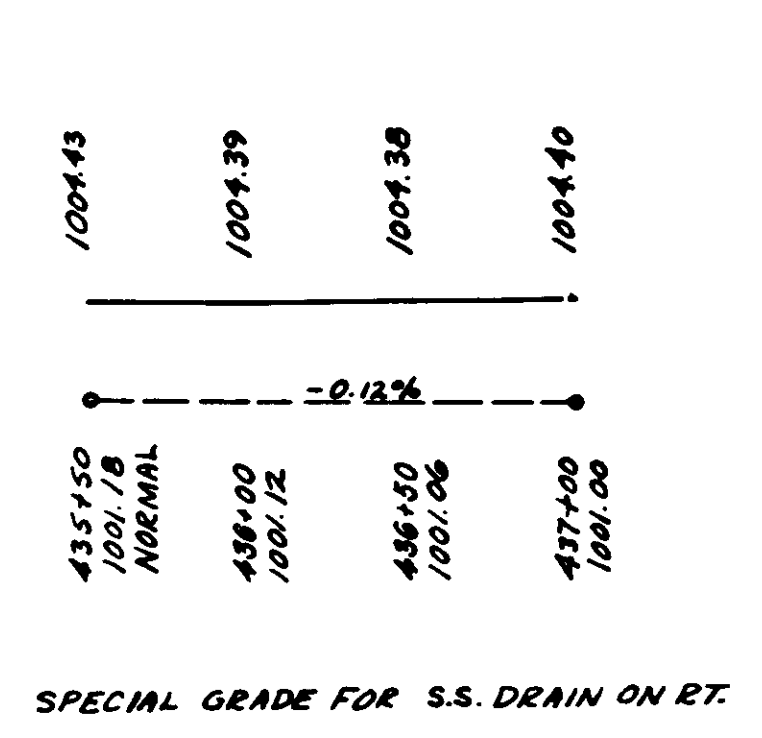
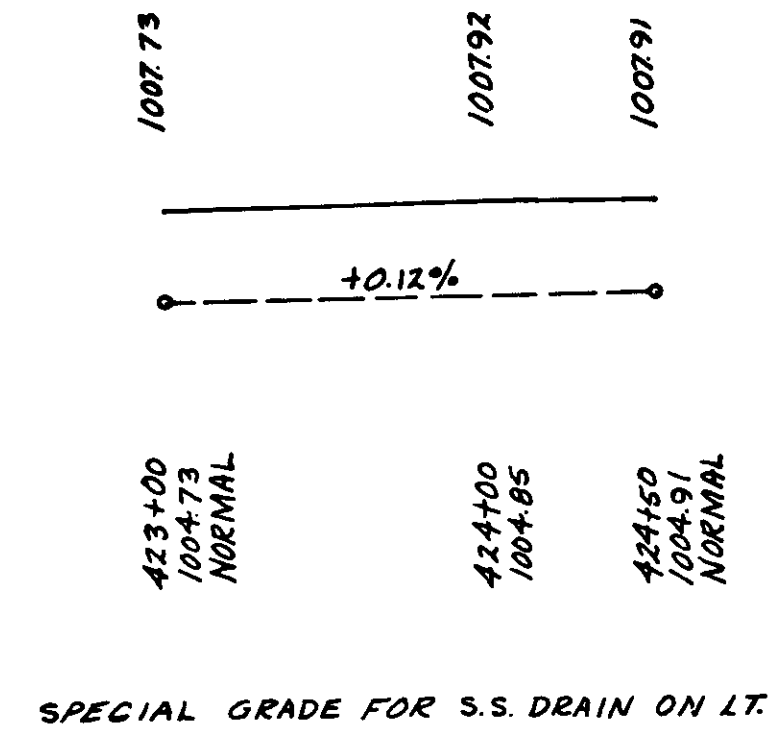


SECTION A-A

ESTIMATED QUANTITIES
 WALK REMOVAL 1.0 Sq. Yd.
 CEMENT CONCRETE SIDEWALK - 4" 5.0 Sq. Yd.
 CONCRETE FOR STRUCTURES, CLASS "D" 1.5 Cu. Yd.
 REINFORCING STEEL 65 Lb.

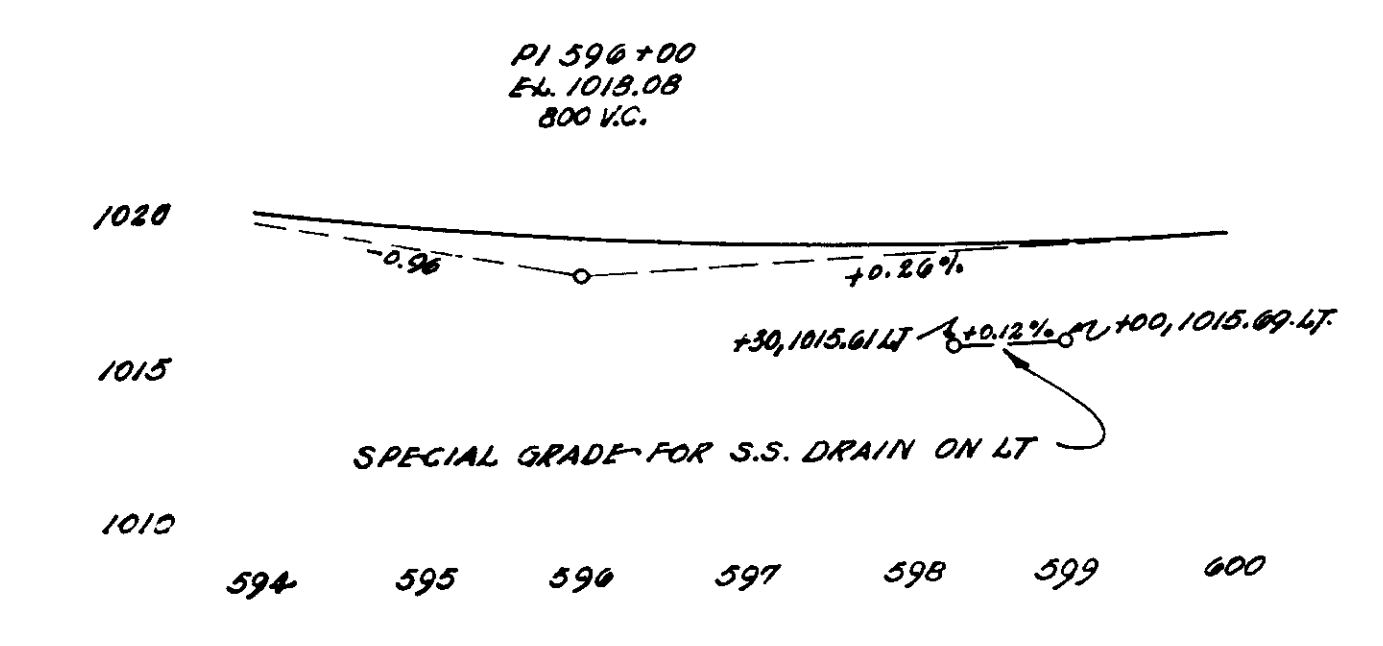
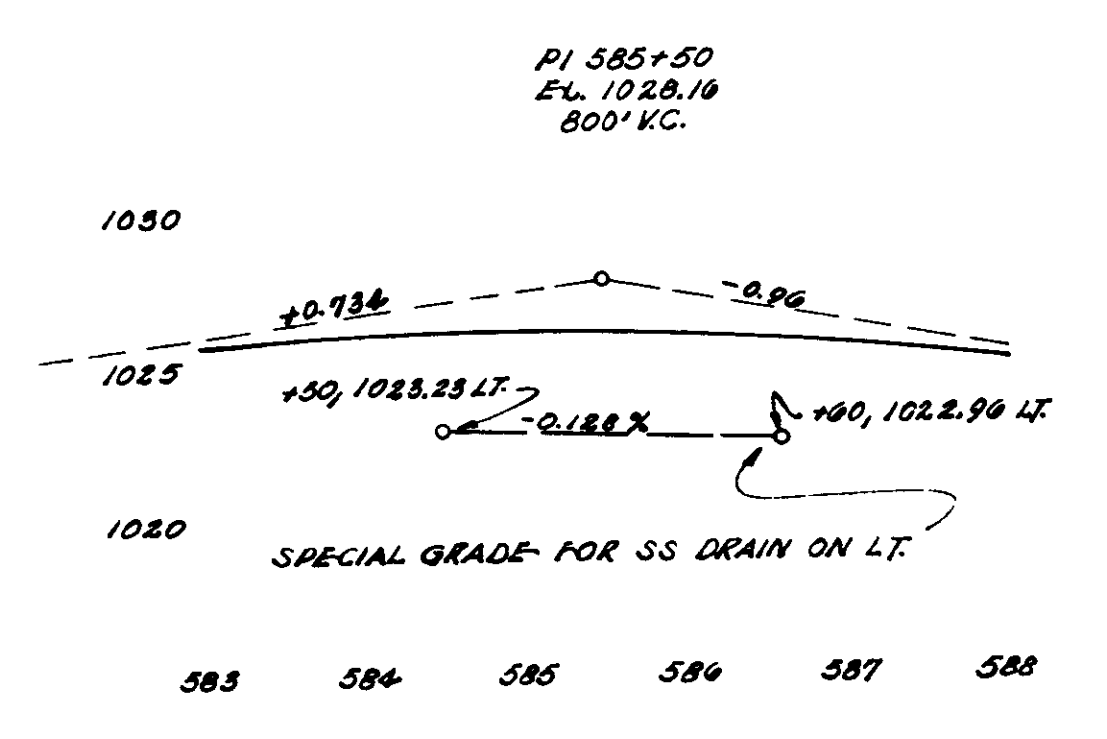
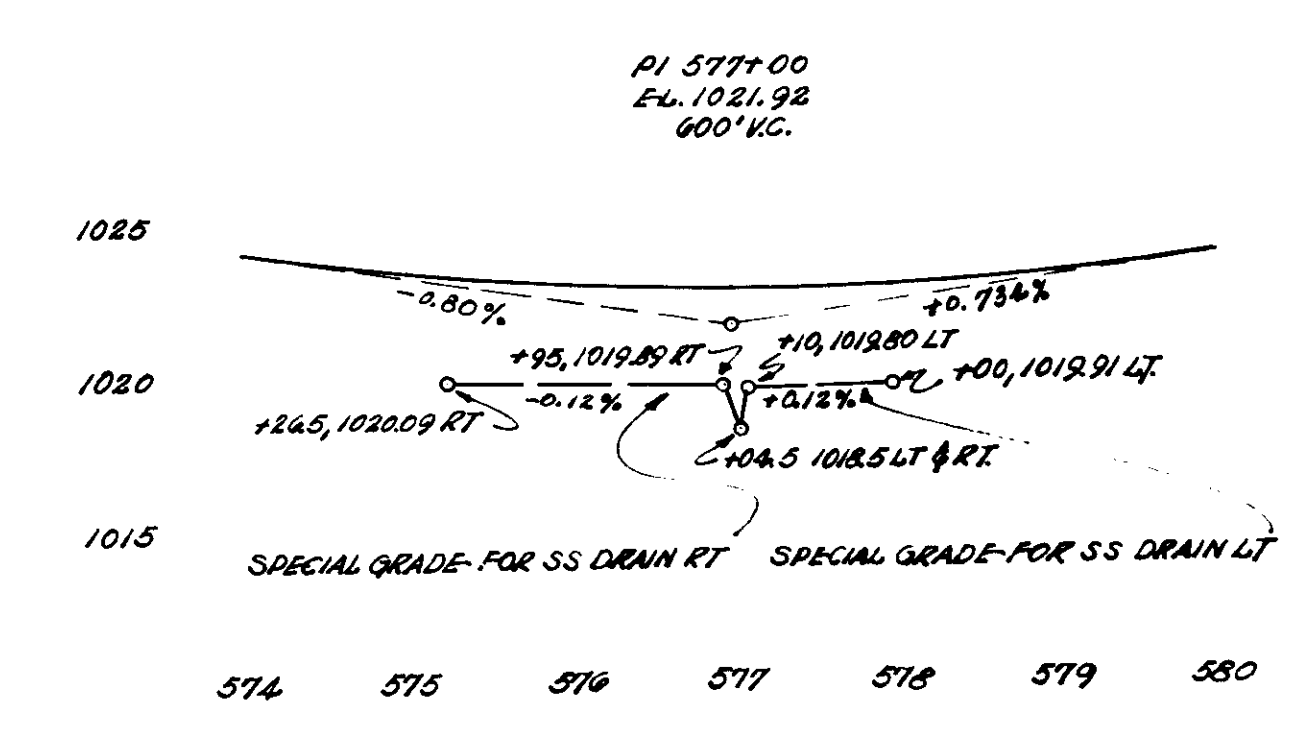
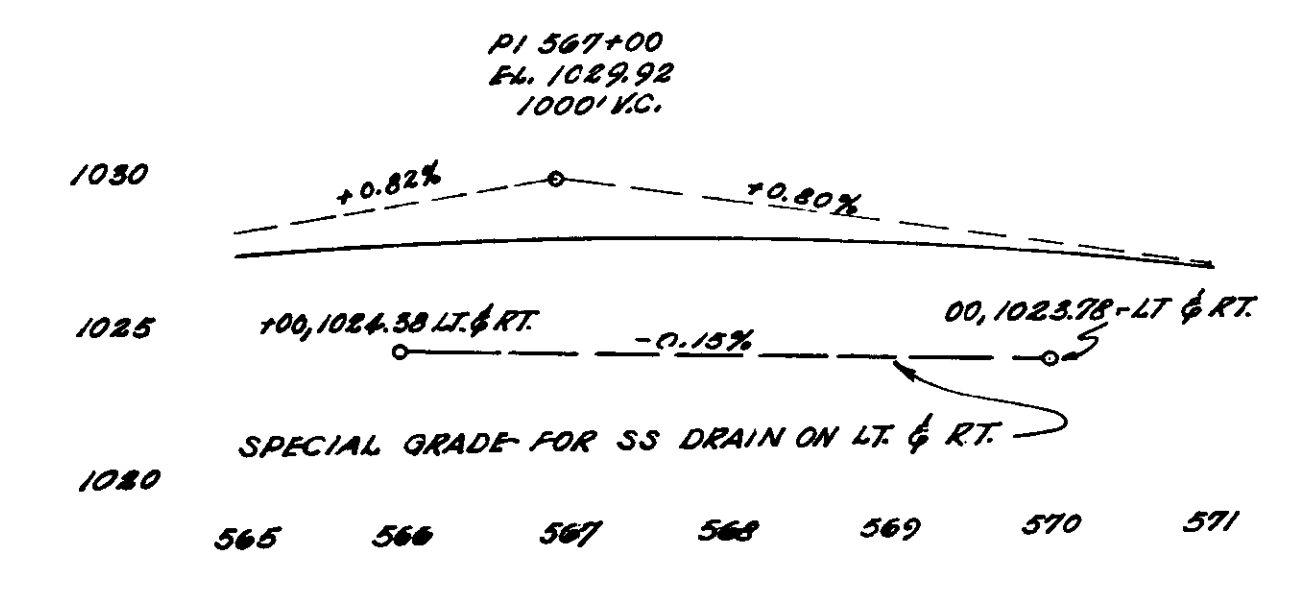
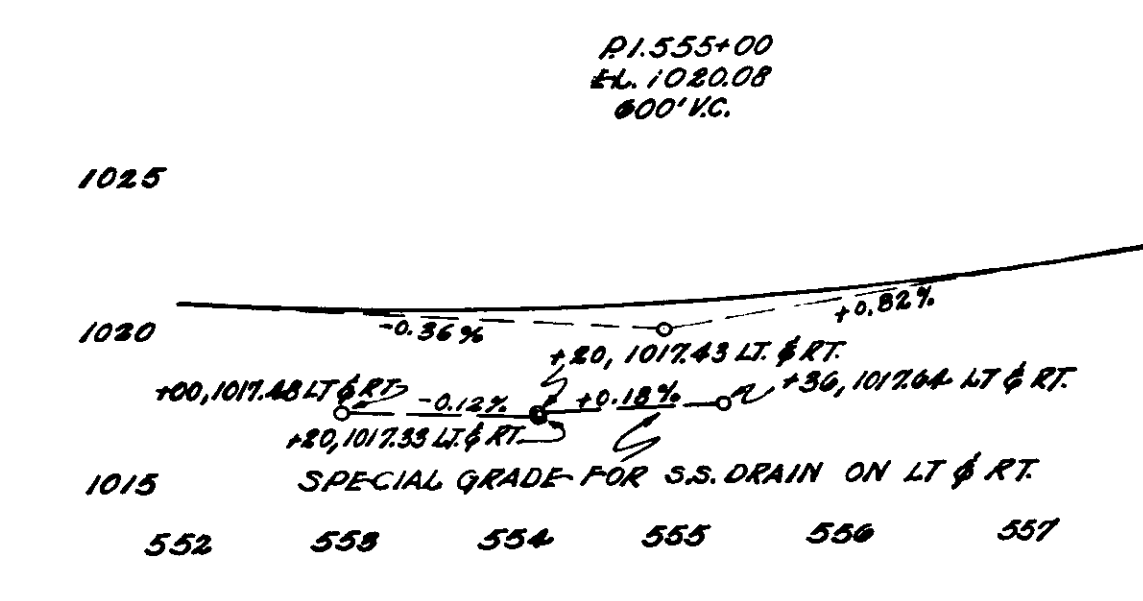
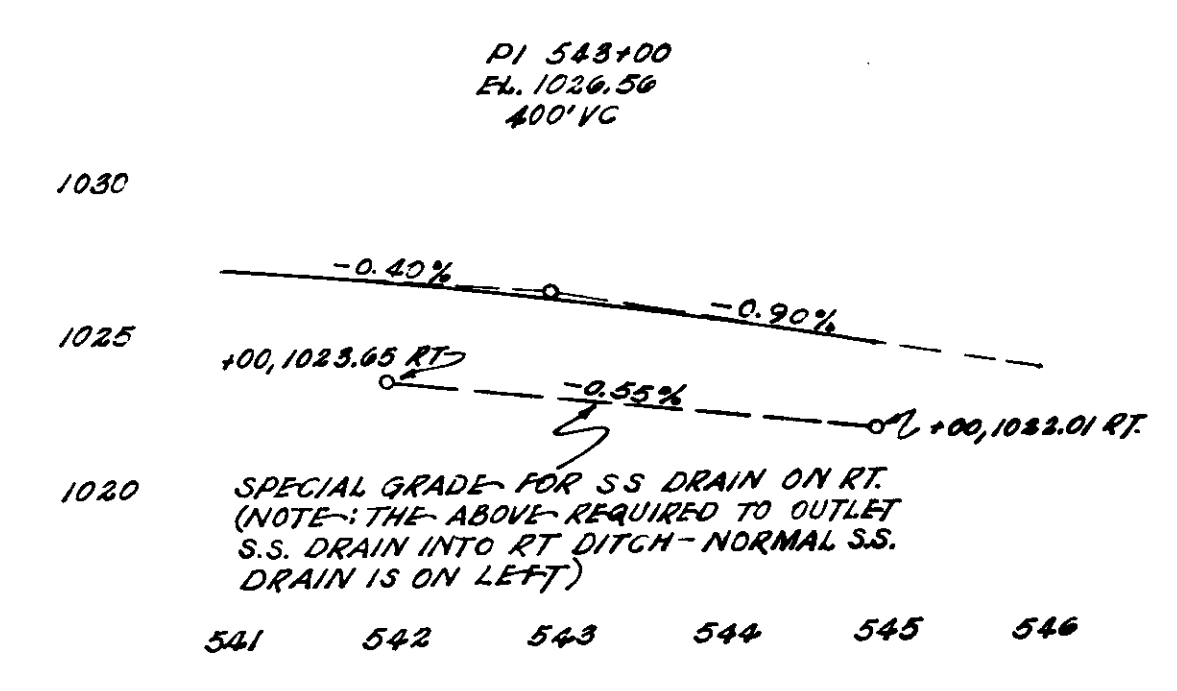
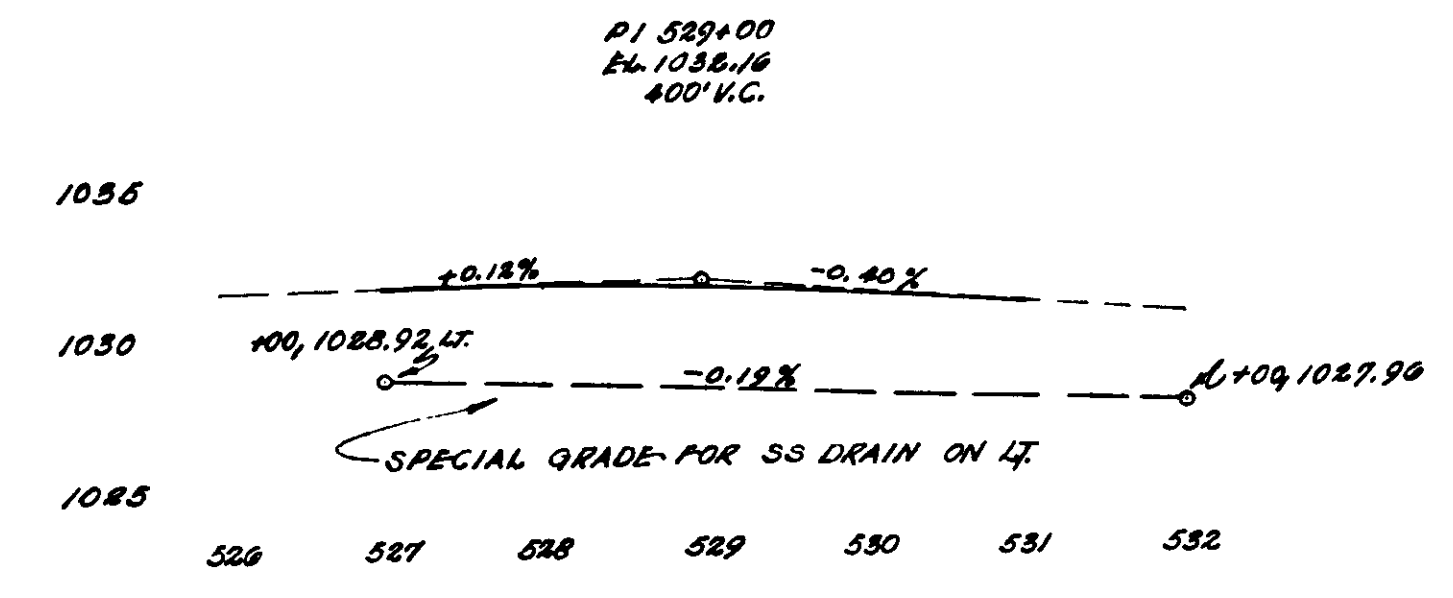
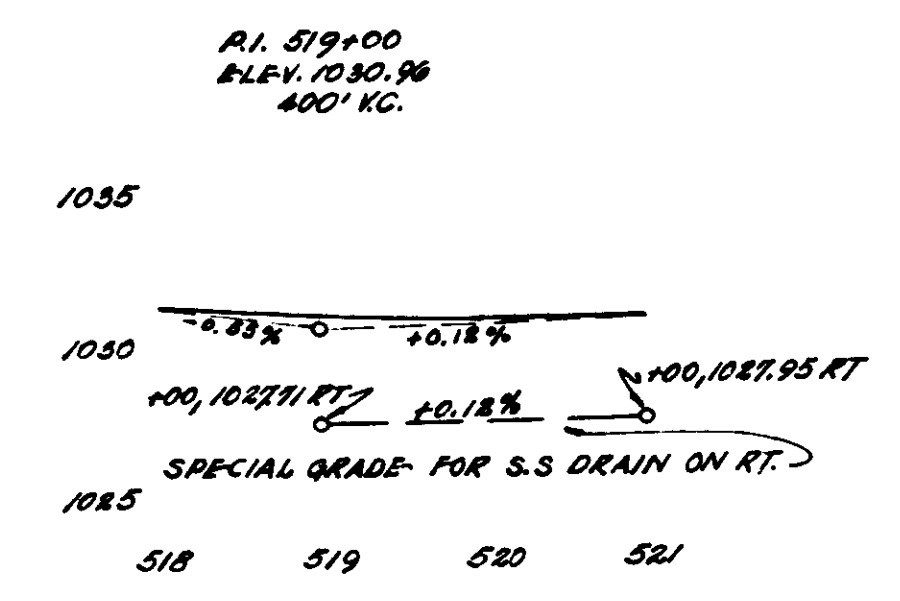
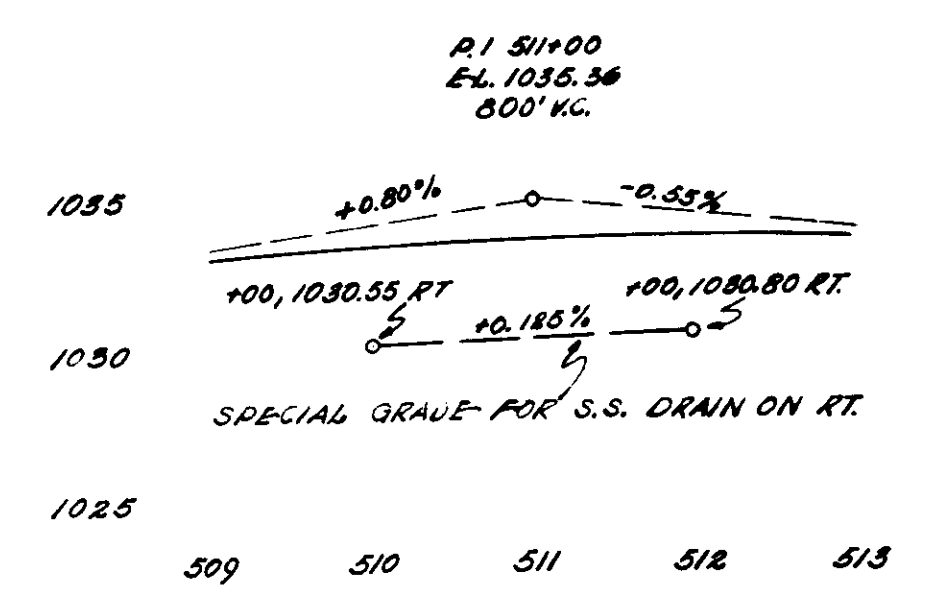
STEP DETAILS

SCALE 1/2" = 1'-0"
 SEE MISCELLANEOUS STANDARDS SHEET "A"

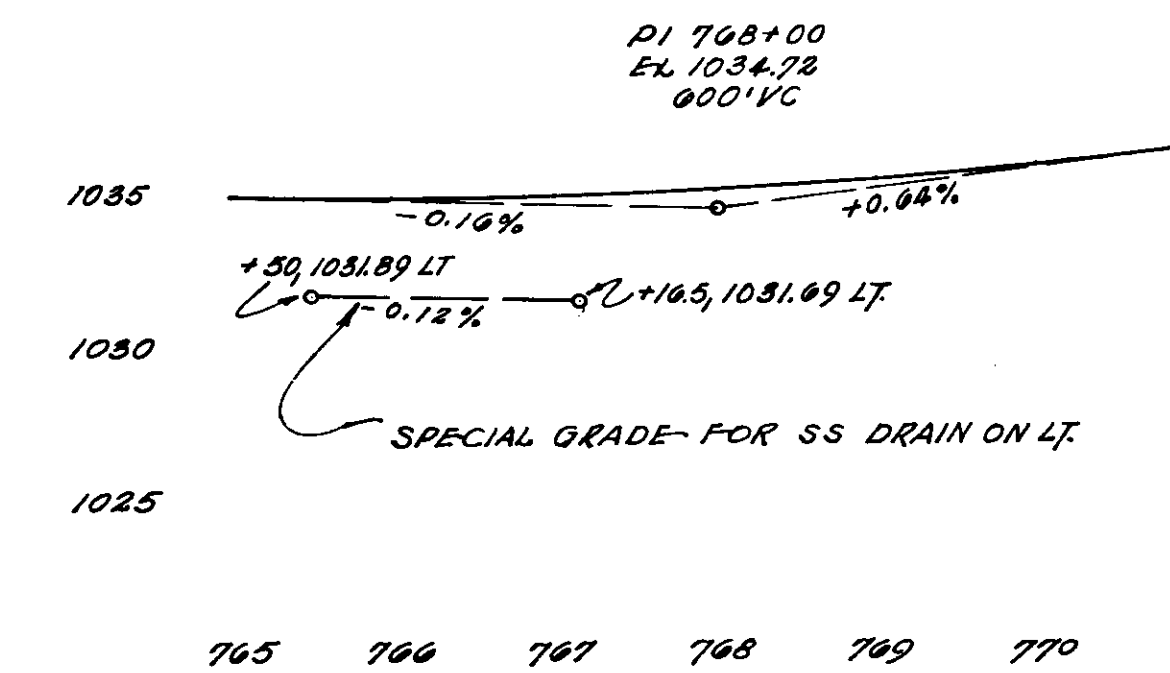
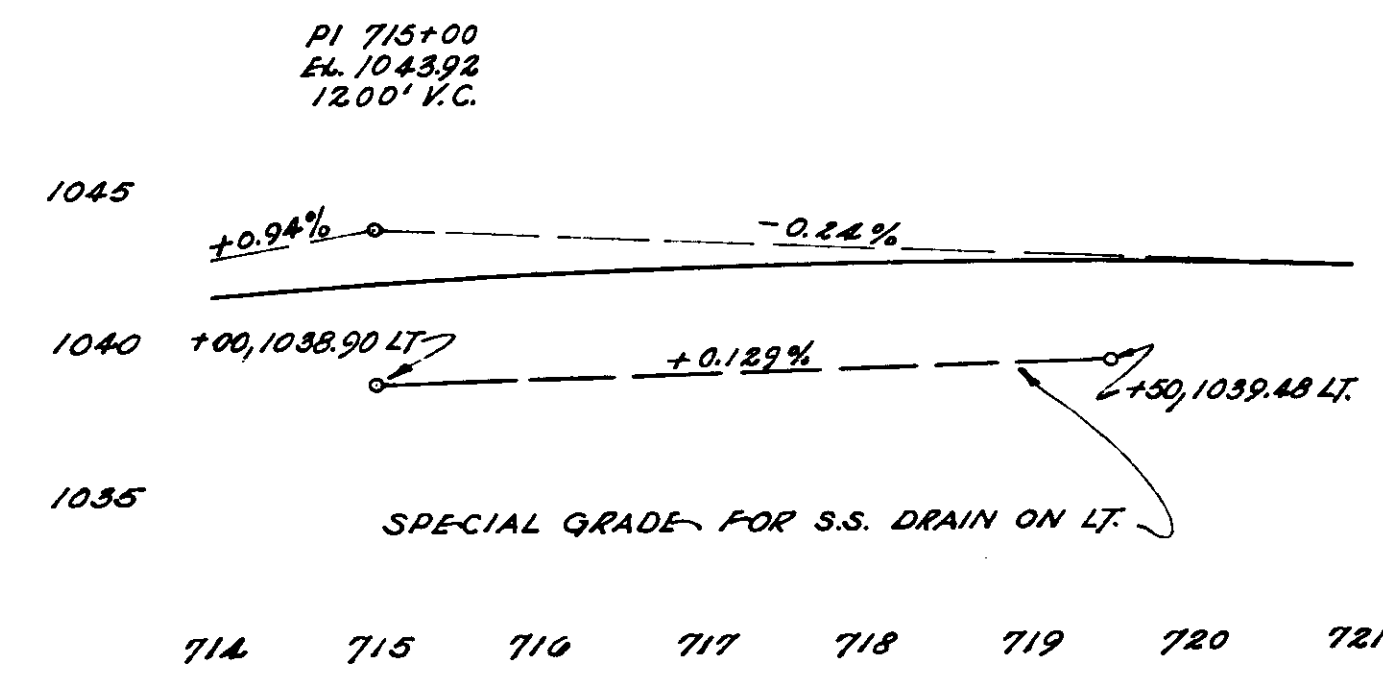
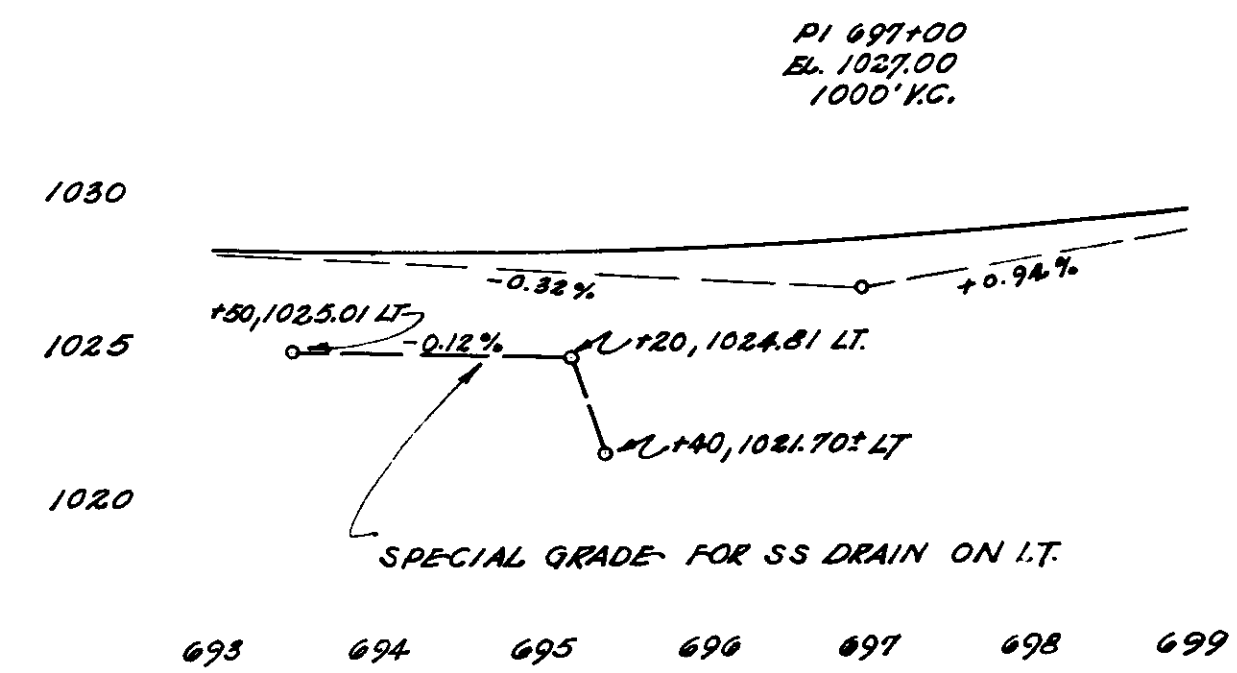
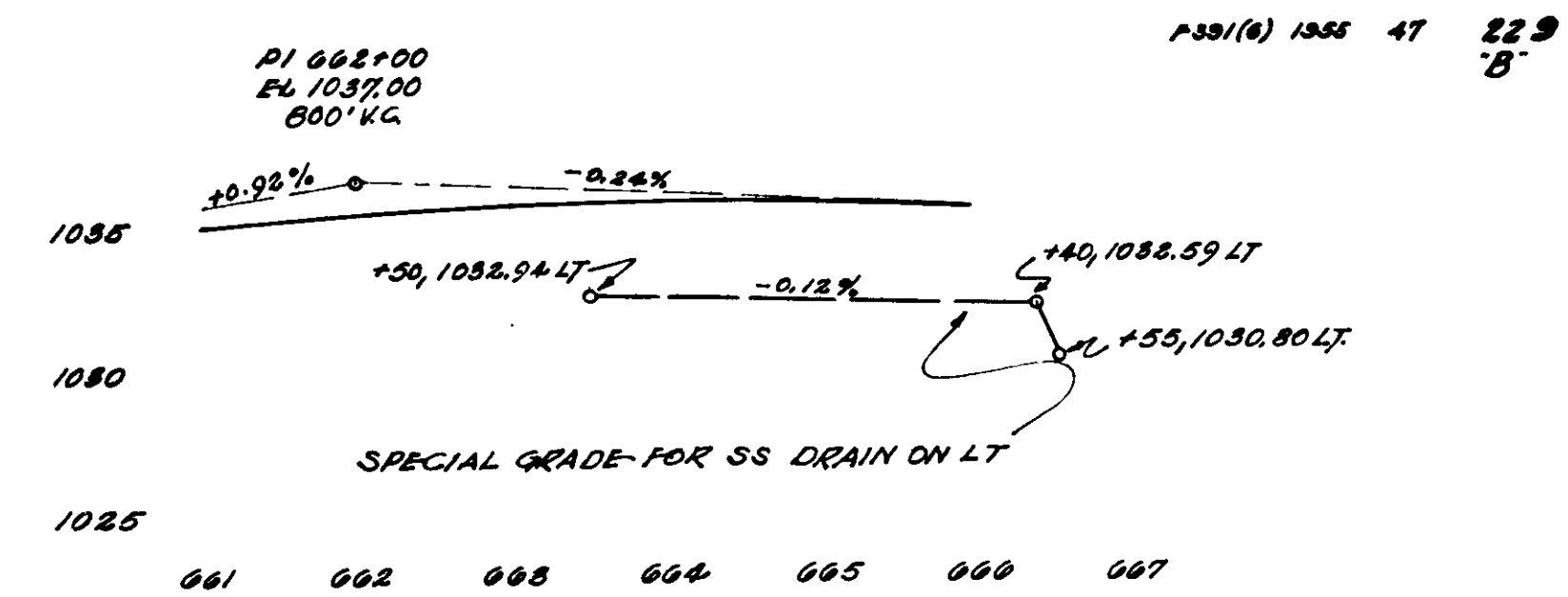
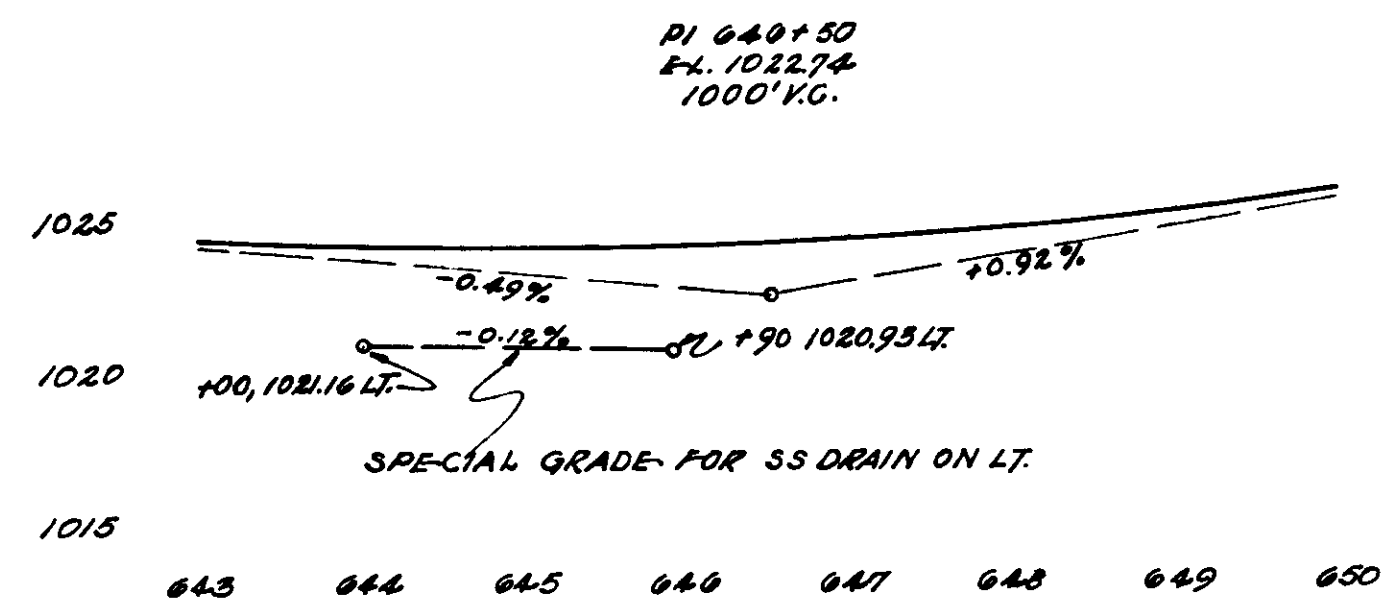
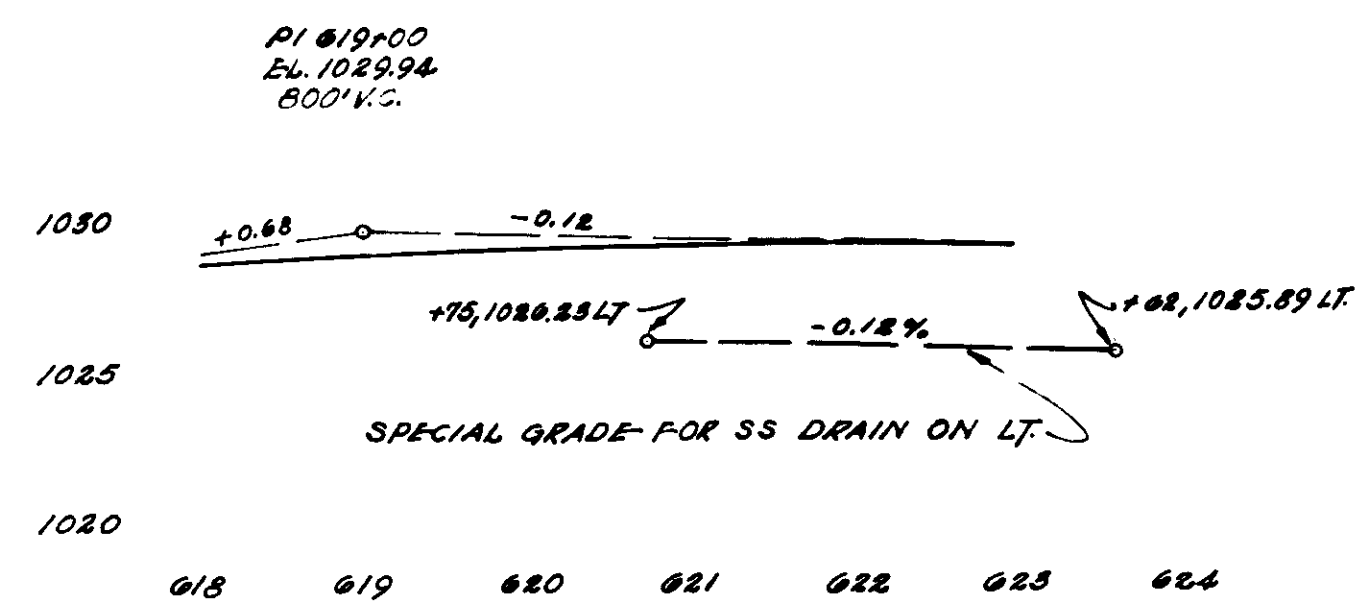


SPECIAL GRADES FOR SUBSURFACE DRAINS

SPECIAL GRADES FOR SUBSURFACE DRAINS.

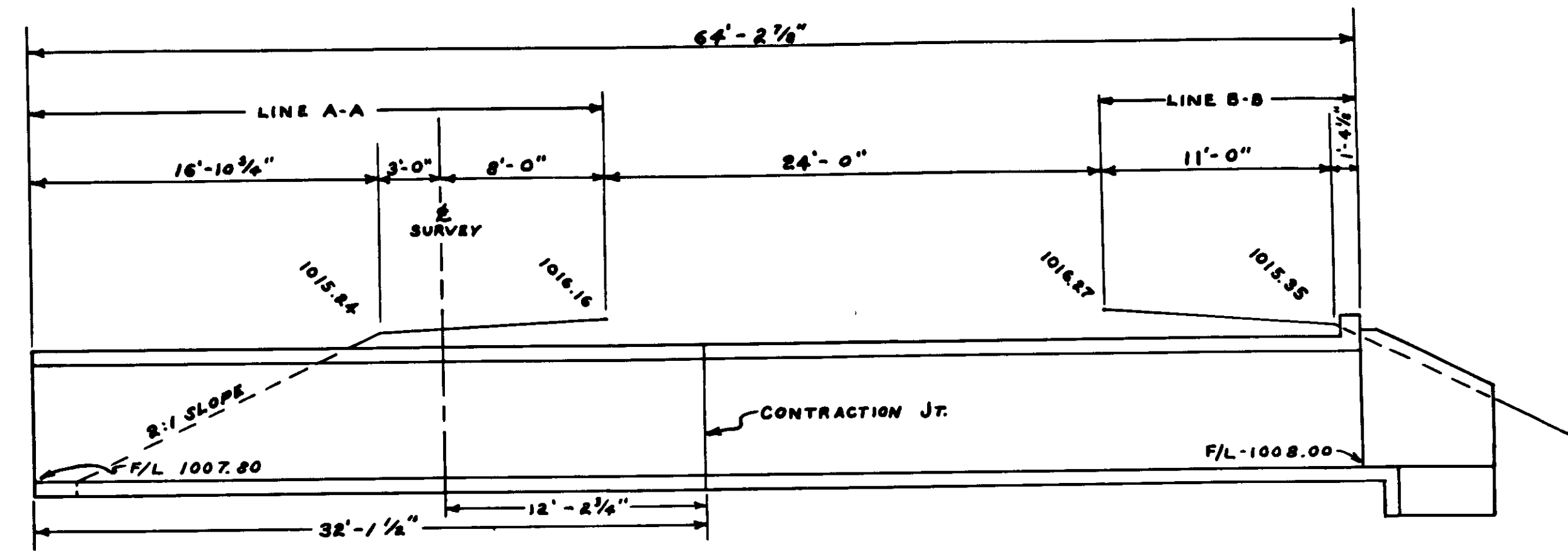
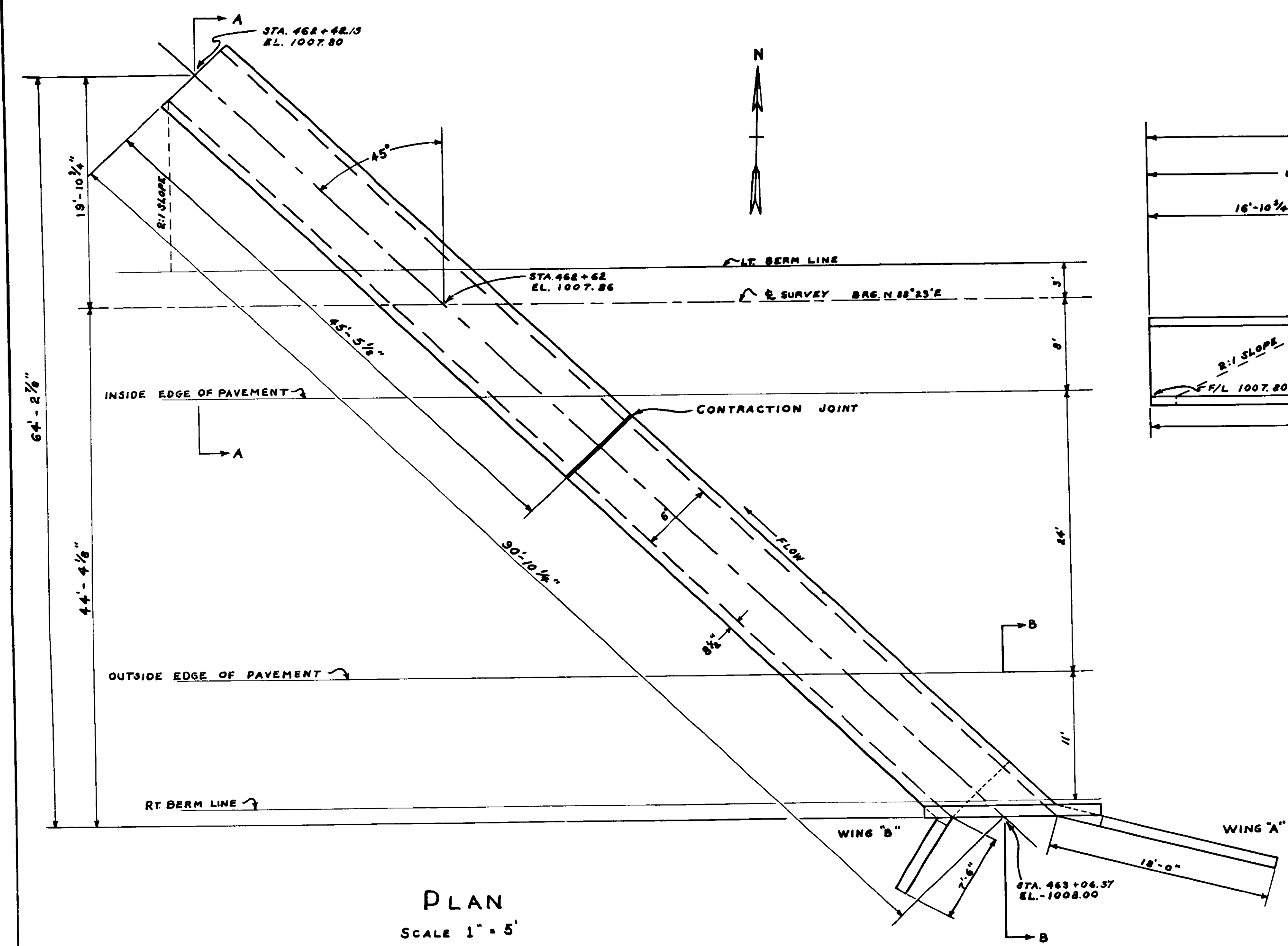


SPECIAL GRADES FOR SUBSURFACE DRAINS



SPECIAL GRADES FOR SUBSURFACE DRAINS

PER. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F.33(6)	1955	49	229

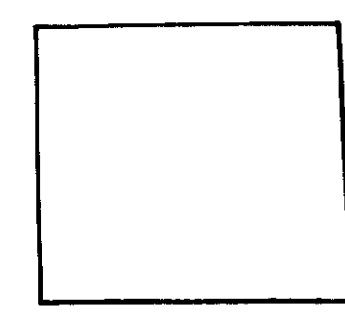


SECTION PERPENDICULAR TO SURVEY
SCALE 1" = 5'

<u>CLASS "D" CONCRETE</u>		
BOX 87.85 x .704	=	61.85 CU.YDS.
BOX END & TWO W. WING WALLS	=	13.4 " "
	TOTAL =	75.25 CU.YDS.
<u>REINFORCING STEEL</u>		
BOX 87.85 x 136.88	=	17,296 LBS.
LAPS FOR BARS MK-C 2 x 86.8	=	174 " "
BOX END & TWO W. WING WALLS	=	2,000 " "
	TOTAL =	19,470 LBS.
GRADE "B" SPECIAL BORROW	=	72.4 CU.YDS.

Note:
For Concrete and steel details not shown
on this drawing refer to drawing for
Standard Reinf. Concrete Box Culverts. (FILL 1PT TO 20PT)

STRUCTURE No. 48
STA. 462 + 62
6'x6'x90.85 R.C. Box CULVERT

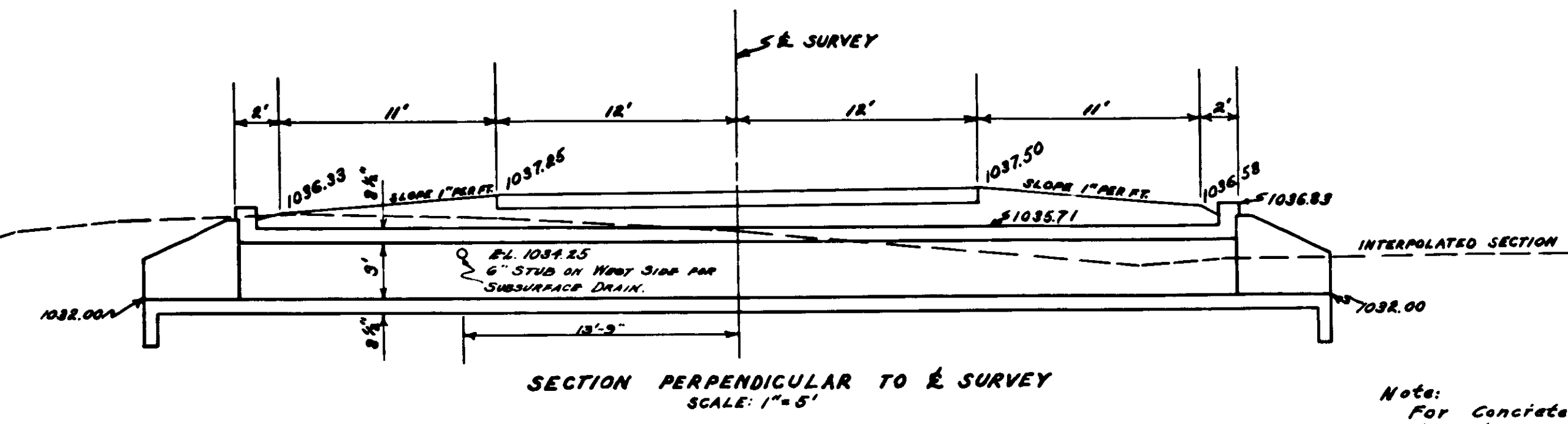


FED. RD. DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F.33(6)	1955	50	229

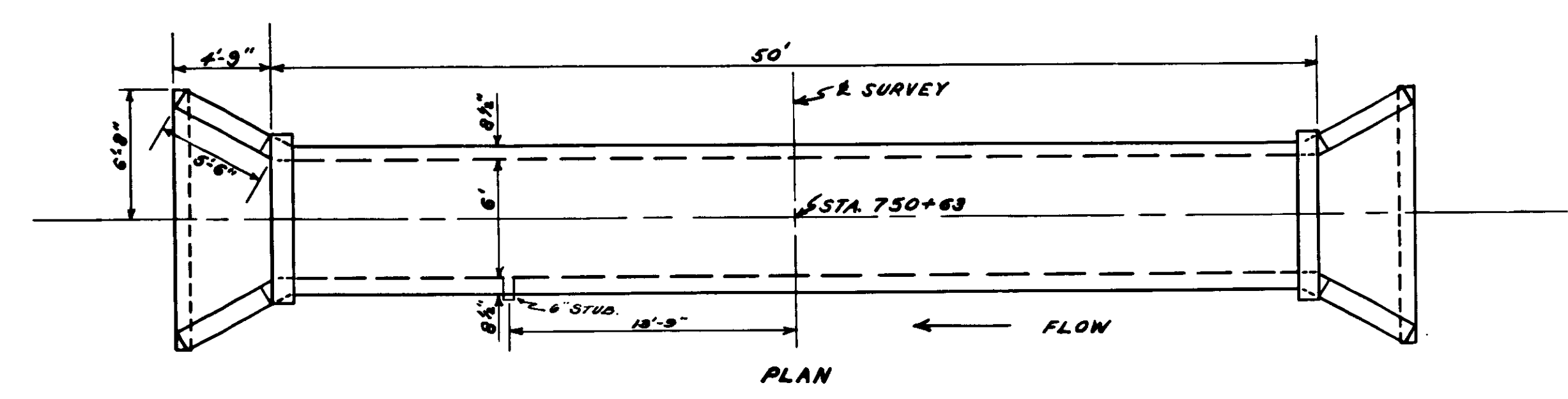
CLASS "D" CONCRETE
 50' X 0.897 = 27.95 CU. YDS.
 W/ WINGS = 7.40 " "
 TOTAL 35.35 " "

REINFORCING STEEL
 50' X 147.91 = 7395.50 LBS.
 1 LAP = 66.00 "
 W/ WINGS = 614.00 "
 TOTAL 8076.50 "

GRADE "B" SPECIAL BORROW = 39.0 CU. YDS.



Note:
 For Concrete and steel details not shown on this drawing refer to drawing for Standard Reinf. Concrete Box Culverts.

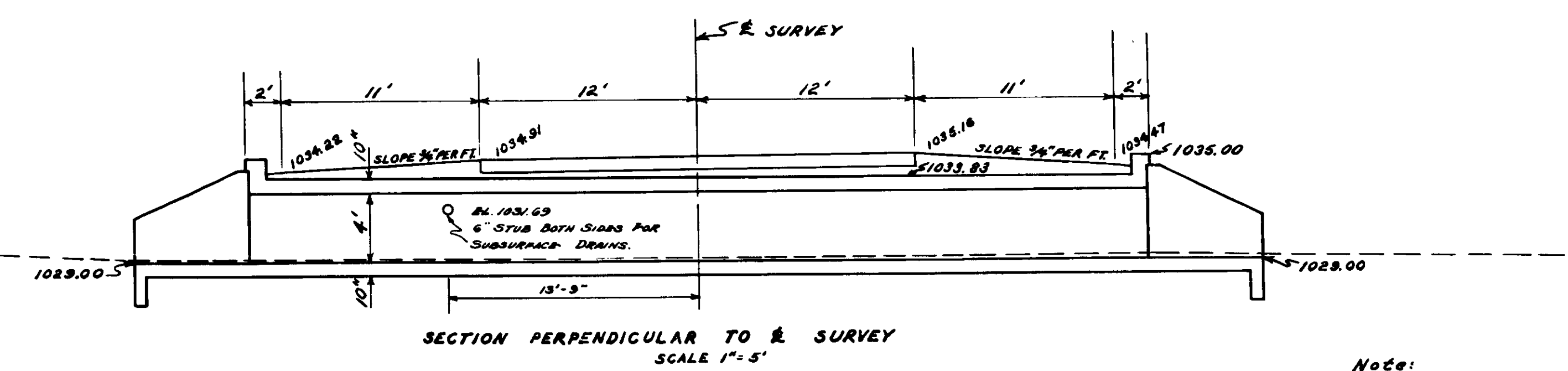


STRUCTURE No. 220
 STA 750 + 63
 6'x3'x 50' R.C. Box Culvert

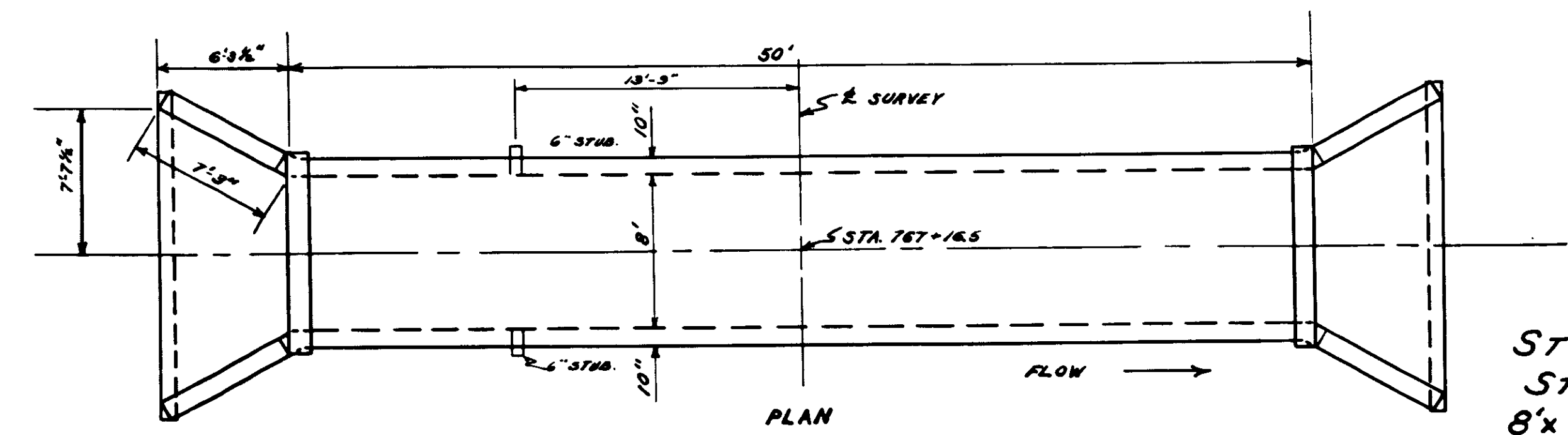
CLASS "D" CONCRETE
 50' X 0.897 = 42.2 CU. YDS.
 W/ WINGS = 12.0 " "
 TOTAL 54.2 " "

REINFORCING STEEL
 50' X 208.96 = 14473.0 LBS.
 1 LAP = 86.8 "
 W/ WINGS = 822.0 "
 TOTAL 11,441.8 "

GRADE "B" SPECIAL BORROW = 44.0 CU. YDS.



Note:
 For Concrete and steel details not shown on this drawing refer to drawing for Standard Reinf. Concrete Box Culverts.



STRUCTURE No. 225
 STA. 767+16.5
 8'x 4' x 50' R.C. Box Culvert

2.000 2.000 2.000

ESTIMATE OF QUANTITIES

GRADING			PAVEMENT			MISCELLANEOUS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS	79,881	SUBBASE, TYPE "I" OR "II"	CYS	20,810	SODDING	SYS	50,566
EXCAVATION FOR SPECIAL BORROW	CYS	3,463	REINFORCED CONCRETE 9"	SYS	102,884	SEED MIXTURE	LBS	5,382
OVERHAUL ADDED	CYS	18,076	PLAIN CONCRETE	SYS		FURNISHING & PLACING FERTILIZER	TONS	17.0
PEAK EXCAVATION SURCHARGE 4'	CYS	10,645	H.E.S. REINFORCED CONCRETE	SYS		FURNISHING & PLACING AGRICULTURAL LIMESTONE	TONS	118
PEAK EXCAVATION SURCHARGE 2'	CYS	2,453	H.E.S. PLAIN CONCRETE	SYS		FURNISHING & PLACING MULCHING MATERIAL	TONS	182
WATER OPERATION	HRS		PLAIN CONCRETE FOR PRIVATE DRIVE CROSSOVERS	SYS	647	FLEXIBLE STEEL PLATE GUARD RAIL	LFT	
MAINTENANCE AVAILABILITY	LBS		REINFORCING STEEL	LBS	1208	STEEL BEAM GUARD RAIL	LFT	
TEST HOLES	LFT		CONTRACTION JOINTS TYPE D-1, D-4, D-5	LFT	22,920	SHOP CURVED STEEL BEAM	LFT	
CASED DYNAMITE HOLES	LFT		EXPANSION JOINT, 1" PREF. BITUM. WITH LOAD TRANSFER	LFT	259	GUARD RAIL	LFT	
GRADE TO SPECIAL BORROW TOP SOIL	CYS	15,516	OR PREF. FIBER	LFT		WIRE ROPE GUARD RAIL	LFT	
PAVEMENT REMOVAL	SYS	367	EXPANSION JOINT, 1" PREF. TYPE D	LFT		WOVEN WIRE FABRIC GUARD RAIL	LFT	
PAVED SURFACE REMOVAL	SYS		EXPANSION JOINT, 1" PREF. BITUM. WITH LOAD TRANSFER	LFT	41	FLEXIBLE STEEL PLATE OR STEEL BEAM GUARD RAIL	LFT	
PAVED SIDE DITCH REMOVAL	LFT	196	3" PREFORMED BITUM. EXP. JOINT	LFT		RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT	
LEAFER CURB REMOVAL	LFT	7	CONCRETE BASE	SYS		SET STEEL BEAM	LFT	
COMB. CURB & GUTTER REMOVAL	LFT	7	H.E.S. CONCRETE BASE	SYS		RESET WIRE ROPE GUARD RAIL	LFT	
GUTTER REMOVAL	LFT	104	CONCRETE PATCHES	SYS		GUARD RAIL SALVAGE	LFT	
W.A. REMOVAL	SYS	35	CLASS I CONCRETE PATCHES	SYS		GUIDE POSTS TYPE "A"	EA	19
STEPS REMOVAL	SYS		CLASS II CONCRETE PATCHES	SYS		GUIDE POSTS TYPE "B"	EA	80
RETAINING WALL REMOVAL	LFT		CLASS III CONCRETE PATCHES	SYS		RESET GUIDE POSTS	EA	
PAVED SIDE DITCH REMOVAL	LFT		CLASS IV CONCRETE PATCHES	SYS		BARRICADES, TYPE "A"	EA	2
STOCKPILED SELECTED MATERIAL	CYS		CONCRETE WIDENING	SYS		BARRICADES, TYPE "B"	EA	12
SAVING STOCKPILED SELECTED MATERIAL	CYS	1495	FILLING CRACKS AND JOINTS	SYS		TYPICAL SIGN STANDARDS	EA	29
SAVING ROAD MATERIAL FOR APPROACHES	CYS		AGGREGATE FOR COMPACTED AGGREGATE BASE	TONS	90.4	RAILROAD CROSSING SIGN, TYPE "W"	EA	
			AGGREGATE FOR COMPACTED AGGREGATE SURFACE	TONS		RAILROAD CROSSING SIGN, TYPE "B"	EA	
			AGGREGATE BASE	M.GALS	0.80	ADVANCE RAILROAD WARNING SIGN	EA	
			WATER FOR COMPACTED AGGREGATE BASE	M.GALS		PAVED SIDE DITCH, TYPE "A"	LFT	252
			WATER FOR COMPACTED AGGREGATE SURFACE	M.GALS		PAVED SIDE DITCH, TYPE "B"	LFT	343
			AGGREGATE FOR SHOULDER DRAINS	TONS		PAVED SIDE DITCH, TYPE "C"	LFT	27
						BITUM. MIXTURE FOR APPROACHES	TONS	
						CONCRETE SIDEWALK	SYS	540
						1" PREF. BITUM. EXP. JOINT FOR SIDEWALK	LFT	
						CROSSWALK	SYS	
						1/2" CORK, CORK RUBBER OR FIBER EXPANSION JOINT	LFT	18
						CONCRETE HEADER	LFT	4,440
						INTEGRAL CONCRETE CURB TYPE "B"	LFT	
						CONCRETE CENTER CURB	LFT	
						6" HAND LAID RIP RAP	SYS	
						8" HAND LAID RIP RAP	SYS	
						ROUTED RIP RAP	SYS	
						PLACING 6" HAND LAID RIP RAP	SYS	
						PLACING 8" HAND LAID RIP RAP	SYS	
						PLACING ROUTED RIP RAP	SYS	
						PRECAST CONCRETE RIP RAP	SYS	
						RIGHT OF WAY MARKERS	EA	225
						PLACING RIGHT OF WAY MARKERS	EA	
						RESET RIGHT OF WAY MARKERS	EA	
						MONUMENTS, TYPE "A"	EA	4
						MONUMENTS, TYPE "B"	EA	2
						MONUMENTS, TYPE "C"	EA	2
						MONUMENTS, TYPE "D"	EA	
						MONUMENTS, RE-ESTABLISHED	EA	
						CASTINGS ADJUSTED TO GRADE	EA	
						MONUMENTS	EA	
						BENCH MARK POSTS	EA	5
						RESETTING BENCH MARK POSTS	EA	
						CONCRETE CLASS "D"	CYS	269.0
						REINFORCING STEEL	LBS	40,063

STRUCTURES

PIPE - LINEAL FEET

ITEM	4"	6"	8"	10"	12"	15"	18"	24"	30"	36"	48"	60"	72"	84"	96"
REINFORCED CONCRETE															
CLASS 1 PIPE						1358	238								
CLASS 5 PIPE						679	640	747	190	232	60				
R.C. V.C. C.I. OR CONC.						642	222								
PIPE TO BE RELIED						1437	331								
EXTRA STRENGTH REINFORCED CONCRETE															
CLAY OR CONC. SEWER															
CLAY SEWER															
REF. CONC. SEWER															
REF. CONC. CORR. METAL															
DEFORMED CORR. METAL, BITUM. COATED															
DEFORMED CORR. METAL															

SUBSURFACE DRAINAGE

PIPE - LINEAL FEET	AGG. CU YDS.	CASTINGS ADJUSTED TO GRADE	FOR STRUCTURES	GATE VALVES
6" PERM. V.C. SEWER, CONC. SEWER OR PERM. V.C. SEWER	2,510			
6" PERM. V.C. SEWER, CONC. SEWER OR PERM. V.C. SEWER				

CATCH BASINS		PIPE CATCH BASIN		INLETS		MANHOLES		RECONSTRUCTED	
TYPE	EACH	SIZE	EACH	TYPE	EACH	TYPE	EACH	TYPE	LN FT.
K-10	11	12"	11	A-4	6	A-4	6	MANHOLE	
C-8	0	15"	11	B-4	6	B-4	6	CATCH BASIN	
		24"	1					INLET	

STRUCTURE DATA

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	P-301(8)	1955	87	279

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH	HEIGHT	WINGS	FLOW LINE		CONCRETE CLASS	SPECIAL CONC. OR CORR. METAL	REINFORCING STEEL	REMARKS
						UP STREAM ELEV.	DN. STREAM ELEV.				
11	418+00	6" V.C. OR CONC. SEWER PIPE	15'	17.0			1001.0	1001.1	0.88	7.0	REMOVE EXIST. PIPE. OMIT HEADWALL ON LT. END. REMOVE EXIST. PIPE. OMIT HEADWALLS.
12	418+00	24" CLASS I PIPE	15'	6.0							REMOVE EXIST. PIPE. OMIT HEADWALLS.
13	418+05 LT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
14	421+05 LT.	6" C.M. PIPE	38'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
15	421+05 LT.	6" C.M. PIPE	46'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
16	422+00 RT.	6" C.M. PIPE	6'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
17	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
18	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
19	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
20	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
21	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
22	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
23	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
24	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
25	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
26	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
27	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
28	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
29	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
30	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
31	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
32	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
33	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
34	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
35	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
36	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
37	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
38	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
39	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
40	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
41	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
42	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
43	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
44	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
45	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
46	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
47	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
48	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
49	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
50	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
51	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
52	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
53	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
54	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
55	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
56	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
57	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
58	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
59	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
60	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
61	422+00 RT.	6" C.M. PIPE	28'								REMOVE EXIST. PIPE. OMIT HEADWALLS.
62	422+00 RT.										

ESTIMATE OF QUANTITIES

STRUCTURE DATA

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	P-381(1)	1955	53	229

GRADING			PAVEMENT			MISCELLANEOUS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS.		SUBBASE TYPE "A"	CYS.		SODDING	SYS.	
SOIL ROCK EXCAVATION	CYS.		REINFORCED CONCRETE	SYS.		FURNISHING MATERIAL FOR PLAIN SEEDING	ACRES	
SPECIAL BORROW	CYS.		PLAIN CONCRETE	SYS.		PLAIN SEEDING	ACRES	
			H.E.S. REINFORCED CONCRETE	SYS.		MULCHED SEEDING	SYS.	
			H.E.S. PLAIN CONCRETE	SYS.				
OVERHAUL	CYS.		PLAIN CONCRETE FOR PRIVATE DRIVE CROSSOVERS	SYS.		GUARD RAIL	LFT.	
ADDED HAUL	UNITS		PRIVATE DRIVE	SYS.		FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
						STEEL BEAM GUARD RAIL	LFT.	
						SHOP CURVED STEEL BEAM GUARD RAIL	LFT.	
PEA EXCAVATION	CYS.		REINFORCING STEEL	LBS.		WIRE ROPE GUARD RAIL	LFT.	
SURFACE - 4' B'	LFT.					WOVEN WIRE FABRIC GUARD RAIL	LFT.	
5' SURFACE - 8' B'	LFT.		CONTRACTION JOINTS, TYPE	LFT.		FLEXIBLE STEEL PLATE OR STEEL BEAM GUARD RAIL	LFT.	
MAINTENANCE OPERATION	HRS.					SETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
MACHINE AVAILABILITY	HRS.		EXPANSION JT. 1" PREF. BITUM. EXPANSION JT. 1" PREF. CORK OR CORK RUBBER	LFT.		RESET STEEL BEAM GUARD RAIL	LFT.	
DYNAMITE	LBS.		EXPANSION JT. 1" PREF. FIBER	LFT.		GUARD RAIL	LFT.	
TEST HOLES	LFT.		EXPANSION JT. 1" PREFORMED WITH LOAD TRANSFER	LFT.		GUIDE POSTS TYPE "A"	EA.	
CASED DYNAMITE HOLES	LFT.		3" PREFORMED BITUM. EXP. JT.	LFT.		GUIDE POSTS TYPE "B"	EA.	
						RESET GUIDE POSTS	EA.	
GRADE "B" SPECIAL BORROW	CYS.		CONCRETE BASE					
OF SOIL	CYS.		H.E.S. CONCRETE BASE					
			CONCRETE PATCHES	SYS.				
PAVEMENT REMOVAL	SYS.		CLASS I CONCRETE PATCHES	SYS.				
SALVAGED PAVEMENT	SYS.		CLASS II CONCRETE PATCHES	SYS.				
PAVEMENT SURFACE REMOVAL	SYS.		CLASS III CONCRETE PATCHES	SYS.				
REPAVING PAVEMENT	SYS.		CLASS IV CONCRETE PATCHES	SYS.				
CURB REMOVAL	LFT.							
CENTER CURB REMOVAL	LFT.							
COMB. CURB & GUTTER REMOVAL	LFT.							
LIP GUTTER REMOVAL	LFT.							
GUTTER REMOVAL	LFT.							
STEPS REMOVAL	SYS.							
RETAINING WALL REMOVAL	LFT.							
PAVED SIDE DITCH REMOVAL	LFT.							
STOCKPILED, SELECTED MATERIAL	CYS.							
EXHAUSTING STOCKPILED	CYS.							
SELECTED MATERIAL	CYS.							
SALVAGED ROAD MATERIAL	CYS.							

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH	HEIGHT	WINGS	FLOW LINE		CONCRETE CLASS "D"	SPECIAL CASTING	REINFORCING STEEL	REMARKS	PLANS OR SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.					
187	600+55 RT.	CLASS 3 PIPE	24'					0.58				
188	610+70 LT.	C.M. PIPE	20'					0.58				
189	615+25 LT.	C.M. PIPE	24'					0.58				
190	616+16	CLASS 3 PIPE	24'			1024.00	1024.50	0.58			REMOVE EXIST. PIPE.	
191	617+70 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
192	617+85 LT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
193	623+62	CLASS 3 PIPE	24'			1024.70	1024.70	0.58	8.07		REMOVE EXIST. PIPE.	
194	625+05 RT.	C.M. PIPE	24'					0.58			REMOVE EXIST. PIPE.	
195	627+01 RT.	C.M. PIPE	24'					0.58			REMOVE EXIST. PIPE.	
196	628+00 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
197	628+07 LT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
198	629+00 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 170.	
199	631+44 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 171 & 169.	
200	631+58 RT.	V.C. OR CONC. SEWER PIPE	51'									
201	632+07 RT.	V.C. OR CONC. SEWER PIPE & 1-18" PIPE CATCH BASIN	6'								1-18" DIA. TYP. CONNECT TO STRUCTURE NO. 170 & 171.	
202	633+10 RT.	C.M. PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 171 & 170.	
203	633+10 RT.	V.C. OR CONC. SEWER PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 171.	
204	633+80	BIT. COATED DEFORMED PIPE	62'			1024.50	1024.25	0.58	9.43		1/2" TYPE HEADWALL ON RT. REMOVE EXIST. STRUCTURE AT 634+25.	
205	634+11	V.C. OR CONC. SEWER PIPE	110'					0.58	2.93		REMOVE EXIST. PIPE.	
206	634+315 RT.	C.M. PIPE	6'					0.58				
207	634+34 RT.	C.M. PIPE	24'					0.58				
208	644+37 RT.	CLASS 3 PIPE	20'					0.58				
209	645+00	BIT. COATED DEFORMED PIPE	64'			1018.00	1018.75	3.00	2.5.17		REMOVE EXIST. PIPE. ANCHOR ENDS.	
210	644+05	CLASS 3 PIPE	24'			1022.45	1022.20	1.71	7.61		REMOVE EXIST. PIPE.	
211	650+15 LT.	CLASS 3 PIPE	24'					0.58				
212	651+00 LT.	V.C. OR CONC. SEWER PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 184.	
213	651+70 LT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 182.	
214	651+70 RT.	CLASS 3 PIPE	24'					0.58				
215	651+70 RT.	CLASS 3 PIPE	24'					0.58				
216	644+01 LT.	C.M. PIPE	24'			1020.50	1020.50	0.58			REMOVE EXIST. PIPE.	
217	648+35	CLASS 3 PIPE	70'			1020.50	1020.50	0.58	11.2		REMOVE EXIST. PIPE.	
218	670+61	CLASS 3 PIPE	80'			1021.00	1020.75	0.58	11.0		REMOVE EXIST. PIPE. AT 670+60.	
219	671+27 RT.	C.M. PIPE	70'			1020.50	1020.50	0.58	2.20		FIELD ENTRANCE ON SIDE ROAD - 150' RT. E.	
220	672+55	CLASS 3 PIPE	70'					0.58			REMOVE EXIST. PIPE.	
221	676+68.5 LT.	C.M. PIPE	6'					0.58				
222	677+20 LT.	C.M. PIPE	24'					0.58				
223	682+70 RT.	CLASS 3 PIPE	24'					0.58				
224	683+36 RT.	CLASS 3 PIPE	24'					0.58				
225	688+04	CLASS 3 PIPE	24'			1022.40	1022.00	0.58	25.6		REMOVE EXIST. PIPE.	
226	688+34 RT.	C.M. PIPE	24'			1022.00	1021.60	1.40	10.48		REMOVE EXIST. PIPE.	
227	688+34 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
228	688+34 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
229	688+34 RT.	CLASS 3 PIPE	24'					0.58			REMOVE EXIST. PIPE.	
230	700+15	BIT. COATED DEFORMED PIPE	38'			1025.70	1025.50	2.25	12.70		REMOVE EXIST. PIPE TO R/W LINE & REPLACE TO LX DITCH LINE.	
231	702+30 LT.	DRAIN TILE & 1-C-5 CATCH BASIN	18'					0.58			REMOVE EXIST. PIPE.	
232	702+30 LT.	C.M. PIPE	24'					0.58			REMOVE EXIST. TILE. C.B. IN LX DITCH.	
233	703+15	C.M. PIPE	24'					0.58				
234	710+10 LT.	C.M. PIPE	24'					0.58				
235	712+70	BIT. COATED DEFORMED PIPE	24'			1026.00	1025.5	0.45	6.5		REMOVE EXIST. STRUCTURE.	
236	717+15 RT.	C.M. PIPE	24'					0.58				
237	721+28	V.C. OR CONC. SEWER PIPE & 1-18" PIPE CATCH BASIN	110'					0.58			REMOVE EXIST. PIPE. CATCH BASIN IN LX DITCH.	
238	721+28	C.M. PIPE	24'					0.58				
239	722+01 LT.	CLASS 3 PIPE	24'					0.58				
240	724+20 LT.	CLASS 3 PIPE	30'					0.58				
241	726+30 RT.	DRAIN TILE	1020'					0.58	80.0		72630 TO 726150 CONNECT TO EXIST. TILE & STR. NO. 214. REMOVE EXIST. TILE.	
242	728+00 RT.	V.C. OR CONC. SEWER PIPE & 1-C-5 CATCH BASIN	6'					0.58			1-18" DIA. TYP. CONNECT TO STR. NO. 208. REMOVE EXIST. STR. C.B. IN RT. DITCH.	
243	728+00 RT.	C.M. PIPE	24'					0.58				
244	728+00 RT.	CLASS 3 PIPE	24'			1026.15	1025.75	1.54	10.40		REMOVE EXIST. STRUCTURE.	
245	728+00 RT.	CLASS 3 PIPE	24'			1026.00	1025.75	0.80	7.88		REMOVE EXIST. STRUCTURE.	
246	728+00 RT.	V.C. OR CONC. SEWER PIPE & 1-C-5 CATCH BASIN	10'					0.58			1-18" DIA. TYP. CONNECT TO STRUCTURE NO. 208. REMOVE EXIST. STRUCTURE.	
247	728+00 RT.	CLASS 3 PIPE	20'					0.58			CONNECT TO STRUCTURE NO. 208. & FIELD TILE ON NORTH. REMOVE EXIST. PIPE.	
248	742+15 LT.	C.M. PIPE	6'					0.58				
249	742+55 LT.	C.M. PIPE	24'					0.58				
250	742+80 LT.	CLASS 3 PIPE	24'					0.58				
251	742+80 LT.	DEFORMED PIPE	24'					1.71	8.0			
252	742+80 RT.	R.C. BOX CULVERT	30'			1022.00	1022.00	24.75	28.5	BOY	REMOVE EXIST. STRUCTURE.	50
253	750+70	CLASS 3 PIPE	100'					0.58	6.0		REMOVE EXIST. PIPE.	
254	750+90 LT.	C.M. PIPE	24'					0.58				
255	750+90 LT.	C.M. PIPE	6'					0.58				
256	754+00 RT.	C.M. PIPE	24'					0.58				
257	767+16.5	R.C. BOX CULVERT	50'			1022.00	1022.00	24.5	44.0	11.442	REMOVE EXIST. STRUCTURE & ABANDONED TRACTION ADJUSTMENT.	50
258	767+23	CLASS 3 PIPE	100'					0.58	26.4		REMOVE EXIST. PIPE. CONNECT TO STRUCTURE NO. 247.	
259	767+23 RT.	GRATE FOR DROP INLET									CONSTRUCT GRATE FOR EXISTING DROP INLET.	
260	773+22 RT.	V.C. OR CONC. SEWER PIPE & 1-18" PIPE CATCH BASIN	18'					0.58			REMOVE EXIST. CATCH BASIN. CONNECT TO STRUCTURE NO. 229.	
261	773+22 RT.	CLASS 3 PIPE & 1-R-10 CATCH BASIN	60'			1024.70	1024.50	0.58	5.60			

STRUCTURES												
PIPE - LINEAL FEET												
ITEM	4"	6"	8"	10"	12"	15"	18"	24"				
REINFORCED CONCRETE												
EXTRA STRENGTH REINFORCED CONCRETE												
CONCRETE												
CORRUGATED METAL												
V.C. OR CONC.												
PIPE												
PIPE TO BE RELAID												
EXTRA STRENGTH REINFORCED CONCRETE												

ESTIMATE OF QUANTITIES

FEDERAL ROAD DIVISION NO.	STATE	F. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	391(8)	1958	53A	229

GRADING		
ITEM	UNIT	QUANTITY
COMMON EXCAVATION	CYS.	79321
SOLID ROCK EXCAVATION	CYS.	
1" LA. SIFIED EXCAVATION	CYS.	
SPECIAL BORROW	CYS.	3463
OVERHAUL	CYS.	15078
ADDED HAUL	UNITS	2453
PEAT EXCAVATION	CYS.	10645
SURCHARGE - 4'	LFT.	
SURCHARGE - 4'-8"	LFT.	
SURCHARGE - 8'-12"	LFT.	
SURCHARGE - 12'-16"	LFT.	
SURCHARGE - 16'-20"	LFT.	
SURCHARGE - 20'-24"	LFT.	
MACHINE OPERATION	HRS.	
MACHINE AVAILABILITY	HRS.	
DYNAMITE	LBS.	
2" CASED TEST HOLES	LFT.	
4" CASED TEST HOLES	LFT.	
6" CASED TEST HOLES	LFT.	
2" CASED DYNAMITE HOLES	LFT.	
4" CASED DYNAMITE HOLES	LFT.	
6" CASED DYNAMITE HOLES	LFT.	
GRADE "B" SPECIAL BORROW	CYS.	15516
PAVEMENT REMOVAL	SYS.	307
SALVAGED PAVEMENT	SYS.	
SURFACE REMOVAL	SYS.	
BREAKING PAVEMENT	SYS.	
CURB REMOVAL	LFT.	196
CENTER CURB REMOVAL	LFT.	
COMB. CURB & GUTTER REMOVAL	LFT.	7
LIP GUTTER REMOVAL	LFT.	
GUTTER REMOVAL	LFT.	
WALK REPAIR	SYS.	104
STEPS REMOVAL	SYS.	7
GUARD RAIL SALVAGE	LFT.	
RETAINING WALL REMOVAL	LFT.	35
RETAINING WALL REMOVAL	CYS.	
PAVED SIDE DITCH REMOVAL	LFT.	
SALVAGED ROAD MATERIAL	CYS.	

PAVEMENT		
ITEM	UNIT	QUANTITY
SUBBASE TYPE "I" OR "II"	CYS.	20810
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS.	
H.E.S. PLAIN CONCRETE	SYS.	
REINFORCED CONCRETE 9"	SYS.	103044
PLAIN CONCRETE	SYS.	
H.E.S. REINFORCED CONCRETE	SYS.	
PLAIN CEMENT CONCRETE FOR CROSSOVERS	SYS.	
BITUMINOUS MIXTURE FOR CROSSOVERS	TONS.	
COVERING AGGREGATE	TONS.	
SUBGRADE FINE AGGREGATE	TONS.	
COMPACTED AGGREGATE	TONS.	
PRIVATE DRIVE PAVEMENT	SYS.	709
COMMERCIAL DRIVE PAVEMENT	SYS.	
REINFORCING STEEL	LBS.	1203
CONTRACTION JOINTS, TYPE "D-1"	LFT.	22820
1" PREFORMED JOINT FILLER	LFT.	259
1/2" PREFORMED JOINT FILLER	LFT.	18
1" PREFORMED EXPANSION JOINT WITH LOAD TRANSFER	LFT.	41
3" EXPANSION JOINT	LFT.	
CONCRETE BASE	SYS.	
H.E.S. CONCRETE BASE	SYS.	
CONCRETE PATCHES	SYS.	
CONCRETE PATCHES CLASS I	SYS.	
CONCRETE PATCHES CLASS II	SYS.	
CONCRETE PATCHES CLASS III	SYS.	
CONCRETE PATCHES CLASS IV	SYS.	
CONCRETE WIDENING	SYS.	
FILLING CRACKS AND JOINTS	TONS.	
BITUMINOUS MATERIAL FOR UNDERSEAL	TONS.	
DRILLING HOLES	EACH.	
AGGREGATE FOR COMPACTED AGGREGATE BASE	TONS.	90.4
WATER FOR COMPACTED AGGREGATE BASE	MGALS.	0.00
AGGREGATE FOR SHOULDER DRAINS	TONS.	
COMPACTED AGGREGATE SHOULDER	TONS.	9708
CALCIUM CHLORIDE	TONS.	22
BITUMINOUS MATERIAL FOR PRIME	TONS.	19.9
BITUMINOUS MATERIAL FOR SEAL	TONS.	
COVERING AGGREGATE	TONS.	
HOT ASPHALTIC CONCRETE BINDER (1)	TONS.	1942
HOT ASPHALTIC CONCRETE SURFACE TYPE "B"	TONS.	
BITUMINOUS COATED BLENDED AGGREGATE BINDER	(1) TONS.	
BITUMINOUS COATED BLENDED AGGREGATE SURFACE	TONS.	
BITUMINOUS COATED AGGREGATE BINDER	(1) TONS.	
BITUMINOUS COATED AGGREGATE SURFACE	TONS.	

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
BITUM. MIXTURE FOR APPROACHES	TONS.	
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS.	1545
BITUMINOUS SHOULDER	TONS.	
BITUMINOUS MATERIAL FOR SEAL	TONS.	
COVERING AGGREGATE	TONS.	
STANDARD LIP GUTTER	LFT.	
PAVED SIDE DITCH TYPE "A"	LFT.	252
PAVED SIDE DITCH TYPE "B"	LFT.	343
PAVED SIDE DITCH TYPE "C"	LFT.	27
INTEGRAL CONCRETE CURB	LFT.	4520
INTEGRAL CONCRETE CURB TYPE "B"	LFT.	
BITUMINOUS CURB	LFT.	
CONCRETE CURB	LFT.	36
CONCRETE CURB TYPE "B"	LFT.	
CONCRETE GUTTER	LFT.	
COMB. CONC. CURB AND GUTTER	LFT.	
RECONSTRUCTED CONC. CURB	LFT.	
RECONSTRUCTED CONC. GUTTER	LFT.	
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT.	
RESET CURB	LFT.	
RESET COMB. CONC. CURB & GUTTER	LFT.	
CONCRETE CENTER CURB	LFT.	
CONCRETE CENTER CURB	SYS.	
FLEXIBLE STEEL PLATE GUARDRAIL	LFT.	
STEEL BEAM GUARD RAIL	LFT.	
SHOP CURVED STEEL BEAM GUARDRAIL	LFT.	
DOUBLE FACE STEEL BEAM GUARDRAIL	LFT.	
WIRE ROPE GUARD RAIL	LFT.	
WOVEN WIRE FABRIC GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
GUARD RAIL POSTS	EA.	
RESETTING STEEL BEAM GUARD RAIL	LFT.	
RESETTING WIRE ROPE GUARD RAIL	LFT.	
RESET WOVEN WIRE FABRIC G. RAIL	LFT.	
GUARD FENCE	LFT.	
GUIDE POSTS, TYPE "A"	EA.	16
GUIDE POSTS, TYPE "B"	EA.	80
BARRICADES, TYPE "A"	EA.	2
BARRICADES, TYPE "B"	EA.	12
TYPICAL SIGN STANDARDS	EA.	29
RAILROAD CROSSING SIGN, TYPE "A"	EA.	
RAILROAD CROSSING SIGN, TYPE "B"	EA.	
ADVANCE RAILROAD WARNING SIGN	EA.	
CONCRETE HEADER	LFT.	
RECONSTRUCTED CONCRETE HEADER	LFT.	
CEMENT CONCRETE SIDEWALK	SYS.	540
RECONSTRUCTED CONCRETE SIDEWALK	SYS.	
CROSSWALK	SYS.	
RIGHT OF WAY MARKERS	EA.	225
RESET RIGHT OF WAY MARKERS	EA.	4
MONUMENTS, TYPE "B"	EA.	2
MONUMENTS, TYPE "C"	EA.	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EA.	
MONUMENTS, RE-ESTABLISHED	EA.	2
MONUMENTS, TYPE "D"	EA.	
BENCH MARK POSTS	EA.	5
RESETTING BENCH MARK POSTS	EA.	
SODDING	SYS.	50566
FURNISHING AND PLACING: AGRICULTURAL LIMESTONE FERTILIZER	TONS.	82
FERTILIZER	TONS.	123
FURNISHING AND APPLYING MULCHING MATERIAL	TONS.	2876
MULCHING MATERIAL	TONS.	122
PLAIN SEEDING	SYS.	
MULCHED SEEDING	SYS.	
TOP SOIL	CYS.	
FENCE (CHAIN LINK TYPE)	LFT.	

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
6" HAND LAID RIP RAP	SYS.	
12" HAND LAID RIP RAP	SYS.	
CROUTED RIP RAP	SYS.	
PLACING CROUTED RIP RAP	SYS.	
PLACING 6" HAND LAID RIP RAP	SYS.	
PLACING 12" HAND LAID RIP RAP	SYS.	
PRECAST CONCRETE RIP RAP	SYS.	
CONCRETE CURB	LFT.	36
CONCRETE CURB TYPE "B"	LFT.	
CONCRETE GUTTER	LFT.	
COMB. CONC. CURB AND GUTTER	LFT.	
RECONSTRUCTED CONC. CURB	LFT.	
RECONSTRUCTED CONC. GUTTER	LFT.	
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT.	
RESET CURB	LFT.	
RESET COMB. CONC. CURB & GUTTER	LFT.	
CONCRETE CENTER CURB	LFT.	
CONCRETE CENTER CURB	SYS.	
FLEXIBLE STEEL PLATE GUARDRAIL	LFT.	
STEEL BEAM GUARD RAIL	LFT.	
SHOP CURVED STEEL BEAM GUARDRAIL	LFT.	
DOUBLE FACE STEEL BEAM GUARDRAIL	LFT.	
WIRE ROPE GUARD RAIL	LFT.	
WOVEN WIRE FABRIC GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
GUARD RAIL POSTS	EA.	
RESETTING STEEL BEAM GUARD RAIL	LFT.	
RESETTING WIRE ROPE GUARD RAIL	LFT.	
RESET WOVEN WIRE FABRIC G. RAIL	LFT.	
GUARD FENCE	LFT.	
GUIDE POSTS, TYPE "A"	EA.	16
GUIDE POSTS, TYPE "B"	EA.	80
BARRICADES, TYPE "A"	EA.	2
BARRICADES, TYPE "B"	EA.	12
TYPICAL SIGN STANDARDS	EA.	29
RAILROAD CROSSING SIGN, TYPE "A"	EA.	
RAILROAD CROSSING SIGN, TYPE "B"	EA.	
ADVANCE RAILROAD WARNING SIGN	EA.	
CONCRETE HEADER	LFT.	
RECONSTRUCTED CONCRETE HEADER	LFT.	
CEMENT CONCRETE SIDEWALK	SYS.	540
RECONSTRUCTED CONCRETE SIDEWALK	SYS.	
CROSSWALK	SYS.	
RIGHT OF WAY MARKERS	EA.	225
RESET RIGHT OF WAY MARKERS	EA.	4
MONUMENTS, TYPE "B"	EA.	2
MONUMENTS, TYPE "C"	EA.	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EA.	
MONUMENTS, RE-ESTABLISHED	EA.	2
MONUMENTS, TYPE "D"	EA.	
BENCH MARK POSTS	EA.	5
RESETTING BENCH MARK POSTS	EA.	
SODDING	SYS.	50566
FURNISHING AND PLACING: AGRICULTURAL LIMESTONE FERTILIZER	TONS.	82
FERTILIZER	TONS.	123
FURNISHING AND APPLYING MULCHING MATERIAL	TONS.	2876
MULCHING MATERIAL	TONS.	122
PLAIN SEEDING	SYS.	
MULCHED SEEDING	SYS.	
TOP SOIL	CYS.	
FENCE (CHAIN LINK TYPE)	LFT.	

MISCELLANEOUS		
ITEM	UNIT	QUANTITY
6" HAND LAID RIP RAP	SYS.	
12" HAND LAID RIP RAP	SYS.	
CROUTED RIP RAP	SYS.	
PLACING CROUTED RIP RAP	SYS.	
PLACING 6" HAND LAID RIP RAP	SYS.	
PLACING 12" HAND LAID RIP RAP	SYS.	
PRECAST CONCRETE RIP RAP	SYS.	
CONCRETE CURB	LFT.	36
CONCRETE CURB TYPE "B"	LFT.	
CONCRETE GUTTER	LFT.	
COMB. CONC. CURB AND GUTTER	LFT.	
RECONSTRUCTED CONC. CURB	LFT.	
RECONSTRUCTED CONC. GUTTER	LFT.	
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT.	
RESET CURB	LFT.	
RESET COMB. CONC. CURB & GUTTER	LFT.	
CONCRETE CENTER CURB	LFT.	
CONCRETE CENTER CURB	SYS.	
FLEXIBLE STEEL PLATE GUARDRAIL	LFT.	
STEEL BEAM GUARD RAIL	LFT.	
SHOP CURVED STEEL BEAM GUARDRAIL	LFT.	
DOUBLE FACE STEEL BEAM GUARDRAIL	LFT.	
WIRE ROPE GUARD RAIL	LFT.	
WOVEN WIRE FABRIC GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
RESETTING FLEXIBLE STEEL PLATE GUARD RAIL	LFT.	
GUARD RAIL	LFT.	
GUARD RAIL POSTS	EA.	
RESETTING STEEL BEAM GUARD RAIL	LFT.	
RESETTING WIRE ROPE GUARD RAIL	LFT.	
RESET WOVEN WIRE FABRIC G. RAIL	LFT.	
GUARD FENCE	LFT.	
GUIDE POSTS, TYPE "A"	EA.	16
GUIDE POSTS, TYPE "B"	EA.	80
BARRICADES, TYPE "A"	EA.	2
BARRICADES, TYPE "B"	EA.	12
TYPICAL SIGN STANDARDS	EA.	29
RAILROAD CROSSING SIGN, TYPE "A"	EA.	
RAILROAD CROSSING SIGN, TYPE "B"	EA.	
ADVANCE RAILROAD WARNING SIGN	EA.	
CONCRETE HEADER	LFT.	
RECONSTRUCTED CONCRETE HEADER	LFT.	
CEMENT CONCRETE SIDEWALK	SYS.	540
RECONSTRUCTED CONCRETE SIDEWALK	SYS.	
CROSSWALK	SYS.	
RIGHT OF WAY MARKERS	EA.	225
RESET RIGHT OF WAY MARKERS	EA.	4
MONUMENTS, TYPE "B"	EA.	2
MONUMENTS, TYPE "C"	EA.	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EA.	
MONUMENTS, RE-ESTABLISHED	EA.	2
MONUMENTS, TYPE "D"	EA.	
BENCH MARK POSTS	EA.	5
RESETTING BENCH MARK POSTS	EA.	
SODDING	SYS.	50566
FURNISHING AND PLACING: AGRICULTURAL LIMESTONE FERTILIZER	TONS.	82
FERTILIZER	TONS.	123
FURNISHING AND APPLYING MULCHING MATERIAL	TONS.	2876
MULCHING MATERIAL	TONS.	122
PLAIN SEEDING	SYS.	
MULCHED SEEDING	SYS.	
TOP SOIL	CYS.	
FENCE (CHAIN LINK TYPE)	LFT.	

STRUCTURES																
ITEM	PIPE - LINEAL FEET															
	4"	6"	8"	10"	12"	15"	18"	24"	30"	36"	48"	10'11"	20'10"	34'22"	43'27"	56'36"
CLASS I						679	689	747	190	252	60	54				
CLASS II																
CLASS III																
CLASS IV																
CLASS V						646	222									
RC V.C. C.I. OR CONC.						1437	331									
REINFORCED CONCRETE VITRIFIED CLAY CONCRETE																
CORRUGATED METAL BITUMINOUS COATED CORRUGATED METAL SEWER						1402	1503	400	292	506						
RC or VC SEWER DEFORMED CORRUGATED METAL																
CORRUGATED METAL PIPE ARCH																
BITUM. COATED CORR. METAL PIPE ARCH																
DRAIN TILE						62	1024									

SUBSURFACE DRAINAGE				CASTINGS ADJUSTED TO GRADE		FOR STRUCTURES			AUTO DRAINAGE GATES			
PIPE - LINEAL FEET				AGG-CUYDS		ITEM			SIZE			
6" CLASS VII				2510		CONCRETE CLASS "D"			271.4			
						REINFORCING STEEL			40,086			
CATCH BASINS				PIPE CATCH BASIN		INLETS		MANHOLES		RECONSTRUCTED		
TYPE	EACH	SIZE	EACH	TYPE	EACH	TYPE	EACH	TYPE	LN FT.			
K-10	11	12"	2	A-4	6			MANHOLE				
C-5	6	15"	11	B-4	6			CATCH BASIN				
		18"	1					INLET				
		24"						RC SPRING BOX				