

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

ASD-302-14.34

ASHLAND COUNTY
VILLAGE OF SAVANNAH

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	STATE	

1/14

ASD-302-14.34

PART-2.

FOR PART-1, SEE ASD-302-0.86.

CONVENTIONAL SIGNS

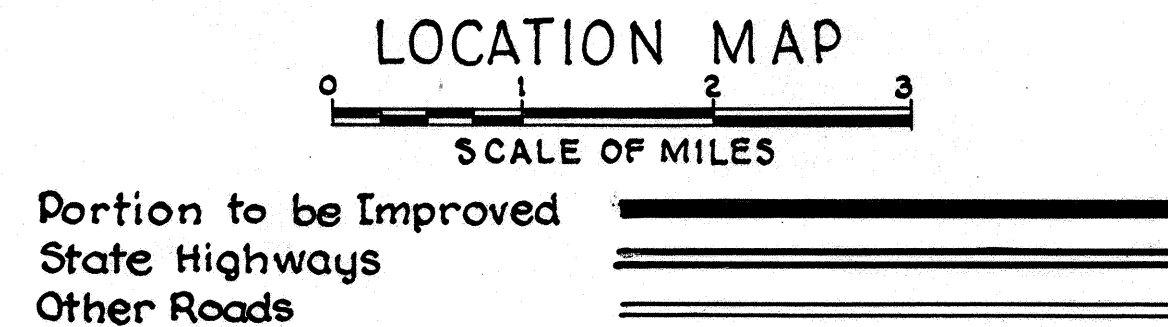
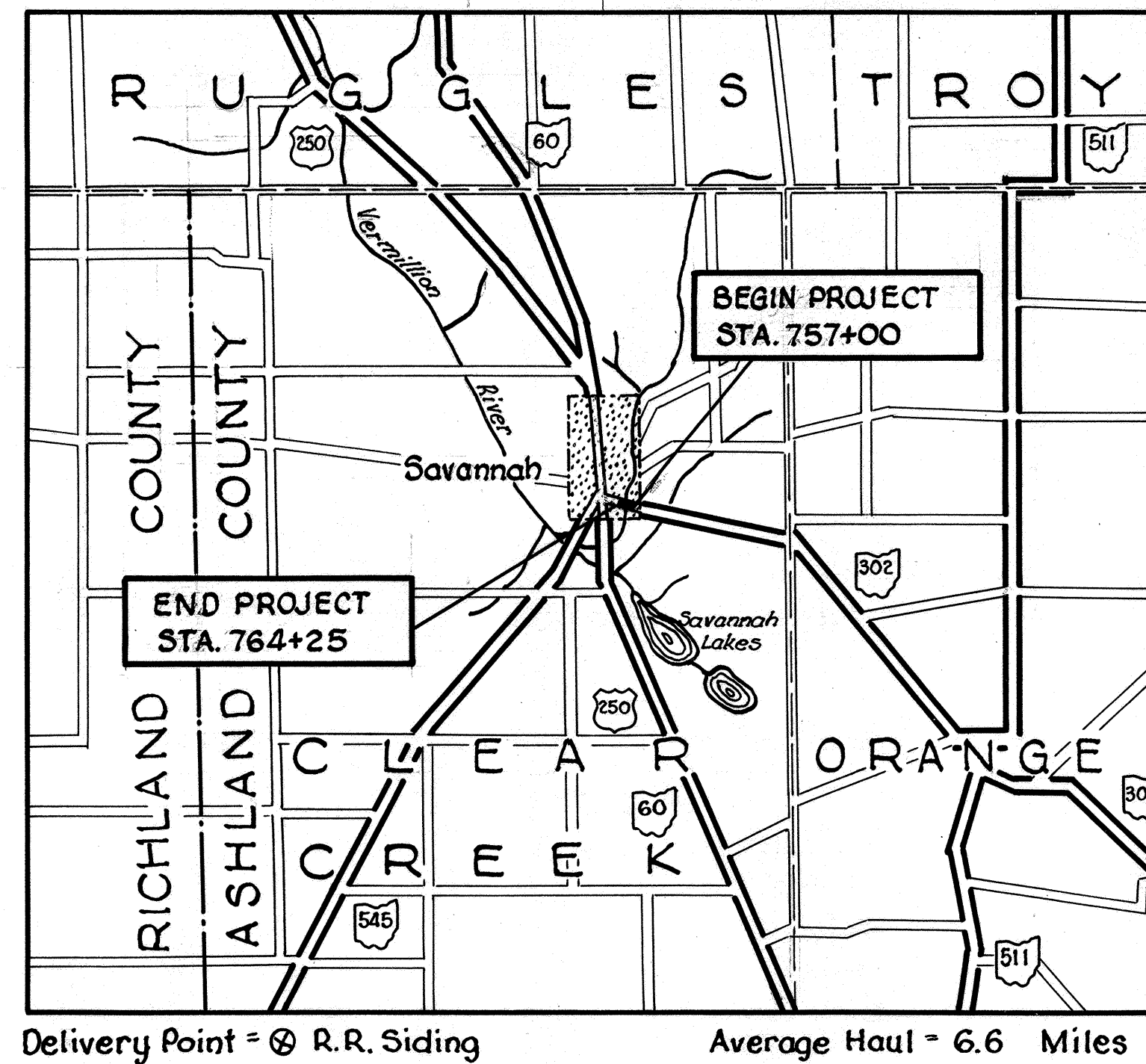
County Line	-----
Township Line	-----
Section Line	-----
Corporation Line	-----
Fence Line	-x-x-x-x-x-x-x-x-
Center Line	-----
Pole Line (Telephone & Power)	φ φ φ φ
Railroad	-----
Guard Rail (Existing & Proposed)	-----
Property Line	----- P/L

INDEX OF SHEETS

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LINE DATA

	WORK	PROJECT
Begin	Sta. 755+75	Sta. 757+00
End	Sta. 765+25	Sta. 764+25
Gross Length	950.00 Lin. Ft.	725.00 Lin. Ft.
No Additions or Deductions	0.00	0.00
Net Length	950.00 Lin. Ft.	725.00 Lin. Ft.
	or 0.179 Mile	or 0.137 Mile



SCALES

Plan	1" = 50'
Profile Horizontal	1" = 50'
Profile Vertical	1" = 5'
Cross Sections	1" = 5'

The Standard Specifications of the State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement.

The right of way necessary for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved _____
Date 6-7-55 Division Deputy Director

Approved _____
Date 6-24-55 Deputy Director of Planning and Programming

Approved _____
Date 6-22-55 Engineer of Bridges

Approved _____
Date 6-20-55 Engineer of Location and Design

Approved _____
Date 6-20-55 Deputy Director of Design and Construction

Approved _____
Date 6-27-55 First Assistant Director

Approved _____
Date 6-28-55 Director of Highways

STANDARD CONSTRUCTION DRAWINGS

RI-1	1-3-55	CS-1-54 (Shets. 1 & 2)	12-1-54
L-3	4-1-50	P-1-54	12-1-54
L-3A	4-1-50	A-1-54	12-1-54
T-35	10-1-52	L-1	4-1-50
I-15 No.1	12-1-54	I-1,2,3,4, & 5	2-20-45
I-15 No.2	12-1-54		
G-7.07	1-2-53		
AS-1-54	12-1-54		

SUPPLEMENTAL SPECIFICATIONS

L-209.12	7-17-54
B-119 Rev.	12-1-54
M-110.27	9-9-52

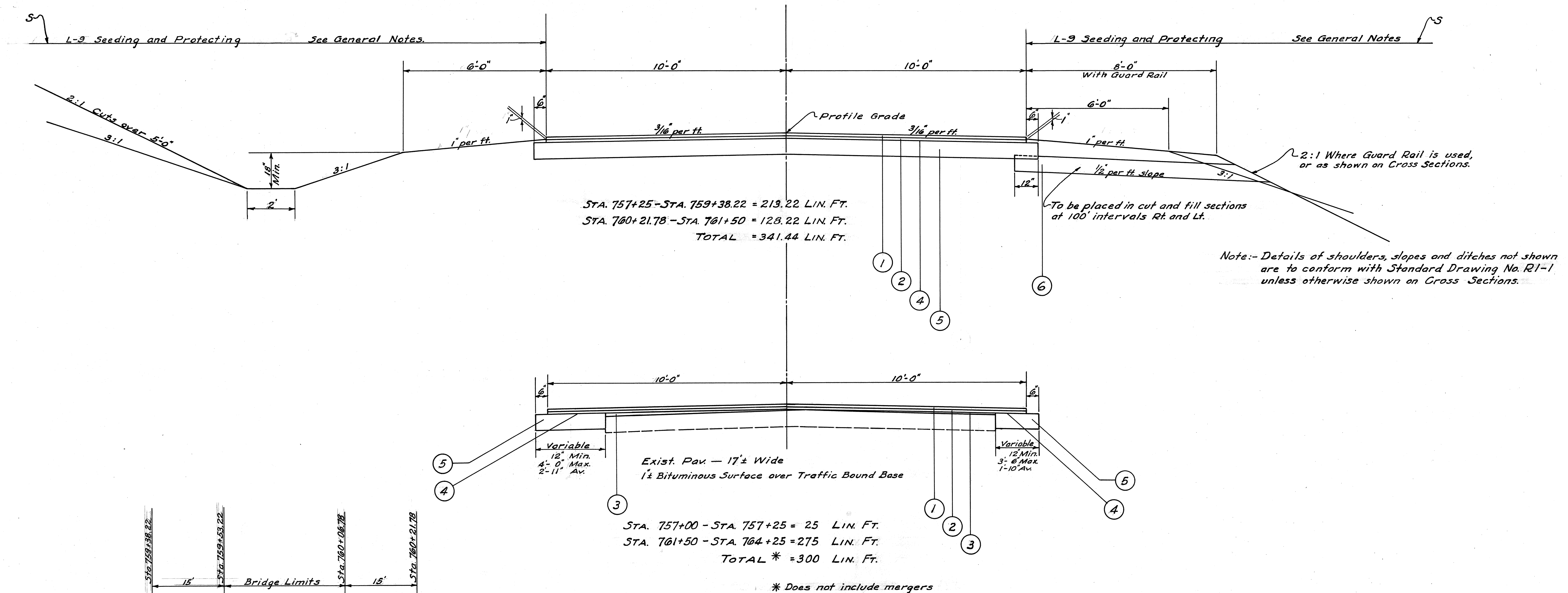
File No. ASD-302-14.34
Date of Letting _____
Contract No. 173-A

CONSTRUCTION BUREAU
FEB 19 1957
GROUND PHOTOLAB

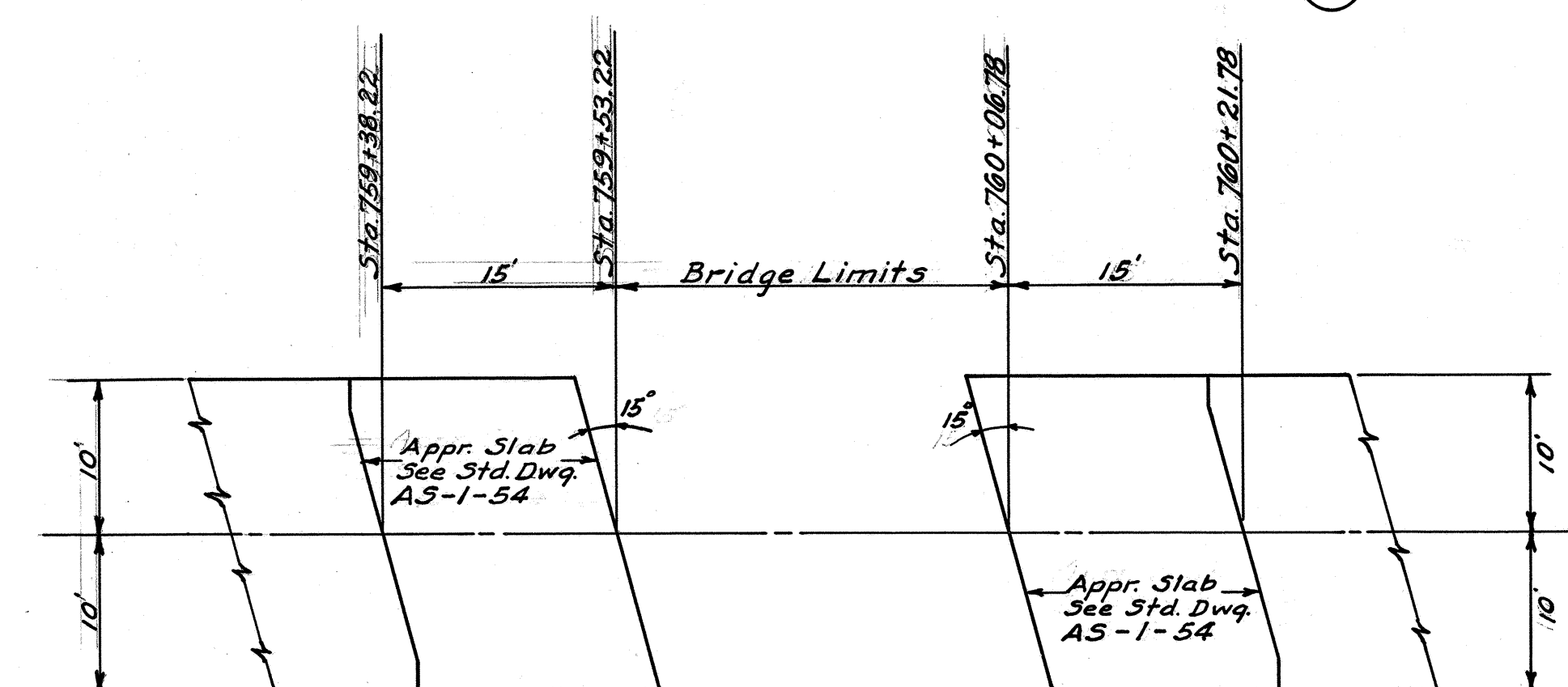
TYPICAL SECTION
TYPE - T-35

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

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Note:- Details of shoulders, slopes and ditches not shown are to conform with Standard Drawing No. R1-1 unless otherwise shown on Cross Sections.



ESTIMATED QUANTITIES APPROACH SLABS

○ T-35 1/4" Asphaltic Concrete Surface Course	66.67 Sq. Yds. or 2.32 Cu. Yds.
○ B-35 1/4" Asphaltic Concrete Leveling Course	66.67 Sq. Yds. or 2.32 Cu. Yds.
I-7 Reinforced Concrete Approach Slabs	67.0 Sq. Yds.
* T-30 Bituminous Tack Coat	7.0 Gals.

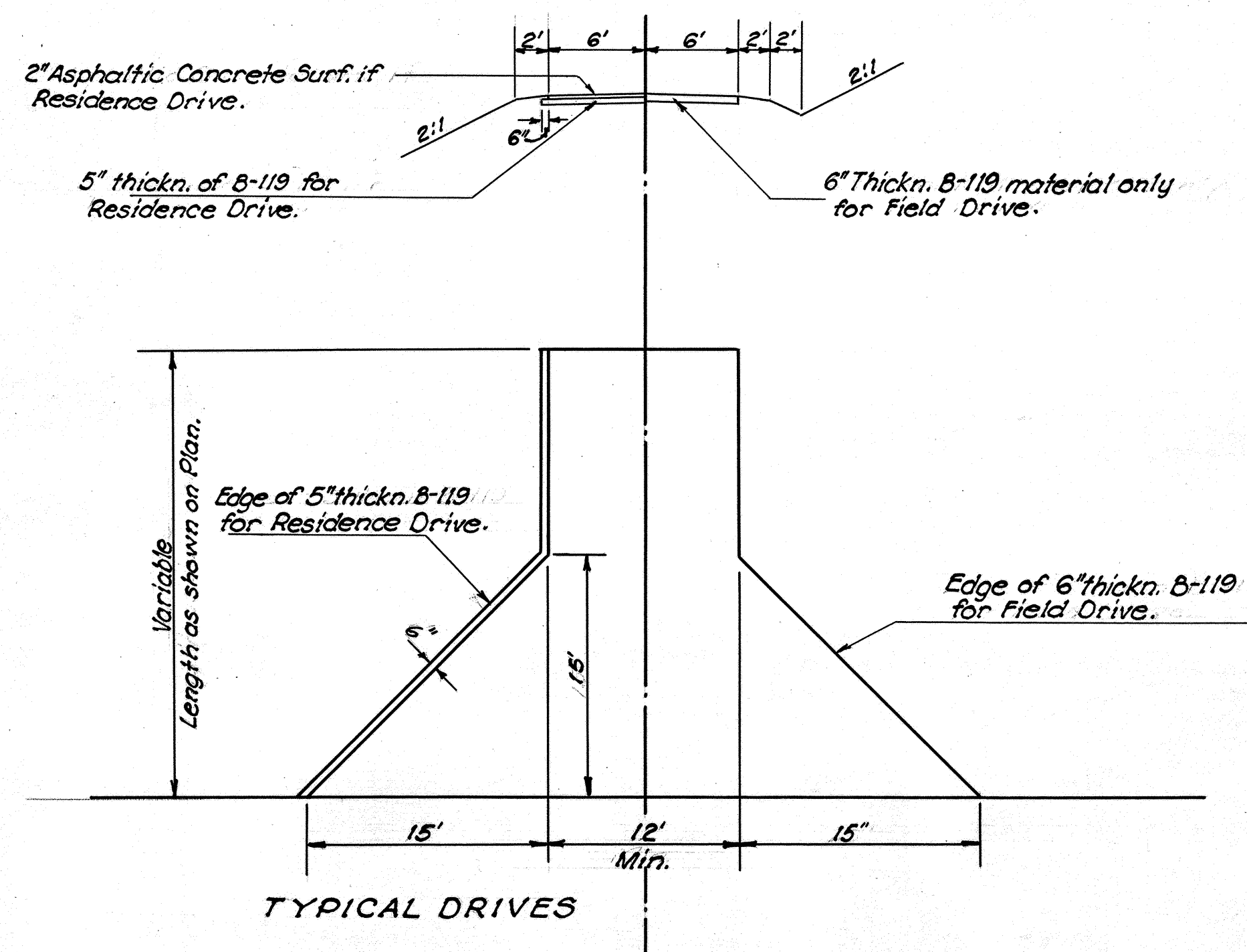
* T-30 Bituminous Tack Coat Sec. M-5.5 MS-2 or RS-1 or Sec. M-5.2 RC-1 or RC-2 applied at rate of 0.10 Gal. per Sq. Yd. (See note in Proposal)

○ Carried to Calculations

LEGEND

- ① T-35 1/4" Asphaltic Concrete Surface Course Type 'A' or 'C' (85-100)
- ② B-35 1/4" Asphaltic Concrete Leveling Course (85-100)
- ③ B-35 0 Min. Asphaltic Concrete Preleveling Course.
- ④ T-30 Bituminous Prime Coat Sec. M-5.7 (RT-2 or 3) or M-5.3 (MC-0 or 1), applied at the rate of 0.35 Gal. per Sq. Yd.
- ⑤ B-119 8" Crushed Aggregate Base Course
- ⑥ I-9 No. 2 Stone Underdrains.

GENERAL SUMMARY.



GENERAL NOTES

UTILITY ADJUSTMENTS:-Any and all work required for the adjustment of public and private utilities shall be done by and at the expense of their respective owners unless otherwise noted on the plans.

FIELD OFFICE:-The Contractor shall provide a suitable field office in accordance with Sec. S-0.01(b) having a minimum floor area of 150 Sq. Ft. The Contractor shall have a telephone installed and maintained during the construction of this project.

CALCULATIONS:-All calculations are on file in the Division Office.

SUPERELEVATION:-Superelevated curves shall be built without crown. The crown shall be worked out of the pavement in that portion between the beginning of the transition and the point where the superelevation equals twice the crown.

CRUSHED AGGREGATE BASE COURSE:-Material meeting Item I-18 requirements may be used in the B-119 construction.

PAVEMENT REMOVAL:-Existing pavement is non-rigid. All necessary pavement removal within the construction limits shall be considered E-1, Roadway Excavation and payment for removal shall be included in the unit price bid for Item E-1 Earthwork.

ITEM E-1 EARTHWORK:-All provisions of Item E-1 Roadway Excavation and Item E-4 Borrow apply here except payment shall be based on the number of Cubic Yards of the accepted roadway embankment compacted in place, measured by average end areas. Payment for Item E-1 Earthwork shall include the cost of making all indicated roadway excavation, roadway embankment and the furnishing and placing of all necessary borrow.

The portions of the temporary run-around that come within the final roadway slopes shall remain in place, and are measured and paid for as Item E-1 Earthwork, while only the portions outside the final roadway slopes are paid for under Item S-15 Temporary Run-around Bridge and Approaches. (See Structure Quantities)

CHANNEL EXCAVATION:-In lieu of placing suitable channel excavation in the highway embankment said material may be wasted.

MAINTENANCE OF LOCAL TRAFFIC:-Aggregate required for maintaining local traffic shall be measured and paid for as Item S-15, Aggregate for Temporary Run-Around.

Calculated	Totals from Sheet Nos.		ITEM	QUANT.	UNITS	DESCRIPTION
	2	5				
		1634	E-1	1634	Cu. Yds.	Earthwork - As per Plan
			E-9	Lump	Lump	Removal of Trees and Stumps
12			E-11	12	M-Gals.	Water
4800			L-9	4800	Sq. Yds.	Seeding and Protecting, As per Plan
0.324			L-9	0.33	Ton	Commercial Fertilizer (12-12-12), as per plan
		92.88	I-15	92.88	Lin. Ft.	Guard Rail - Steel Beam Type (C Deep)
						DRAINAGE
152			I-9	152	Lin. Ft.	No. 2 Stone Underdrains
		4	I-10	4	Sq. Yds.	Riprap, Type "A", Grout Filled
		28	I-1	28	Lin. Ft.	12" Pipe for Driveways
		18	E-12	18	Lin. Ft.	Pipe Removed 15" and Under
						PAVEMENT
71			T-35	71	Cu. Yds.	Asphaltic Concrete Surface Course-Type "A" or "C" (85-100)
136			B-35	136	Cu. Yds.	Asphaltic Concrete Leveling Course (85-100)
247			B-119	247	Cu. Yds.	Crushed Aggregate Base - As per Plan
	7		T-30	7	Gals.	Bituminous Tack Coat - As per Plan
320			T-30	320	Gals.	Bituminous Prime Coat - Sec. M-5.7 (RT-2 or 3) or Sec. M-5.3 (MC-0 or 1)
	67		I-7	67	Sq. Yds.	Reinforced Concrete Approach Slabs
						STRUCTURE OVER 20' SPAN
						See Sheet No. 13 for Quantities, Bridge No. AS-302-144

STONE UNDERDRAINS:-In the final finishing of slopes and ditches care shall be exercised to assure that the exposed edges of the Stone underdrains will be left free of earth cover that would impede free drainage.

TRAFFIC:-At least one way traffic shall be maintained at all times during the construction of this project, and during the paving operations the requirements of Sec. T-35.23 shall be strictly followed.

TREE AND STUMP REMOVAL:-The number of trees and stumps shown in the table is for information purposes only and the State of Ohio will not be responsible for any variations found during construction. The lump sum bid for Item E-9 Removal of Trees and Stumps shall constitute full payment for this item, and no additional compensation will be allowed. Trees and Stumps under 12" are not listed.

Description	12"-18"	18"-24"	24"-30"	30"-36"	36"-42"
Trees	1	1			
Stumps	2				

SEEDING AND PROTECTING:-Seed shall be sown at the rate of 3 pounds per 1000 square feet and shall have a formula of 70% Kentucky 31 Fescue, 15% Kentucky Blue Grass, 10% Domestic Rye Grass and 5% Alsike Clover. Quantities for seeding are calculated for soil areas to construction limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the Contractor shall be restored and seeded in accordance with the provisions of Sec. G-7.09 by the Contractor at his own expense.

Seeding areas shall be fertilized using a Commercial Fertilizer having a formula of 12-12-12, applied at the rate of 15 pounds per 1000 square feet.

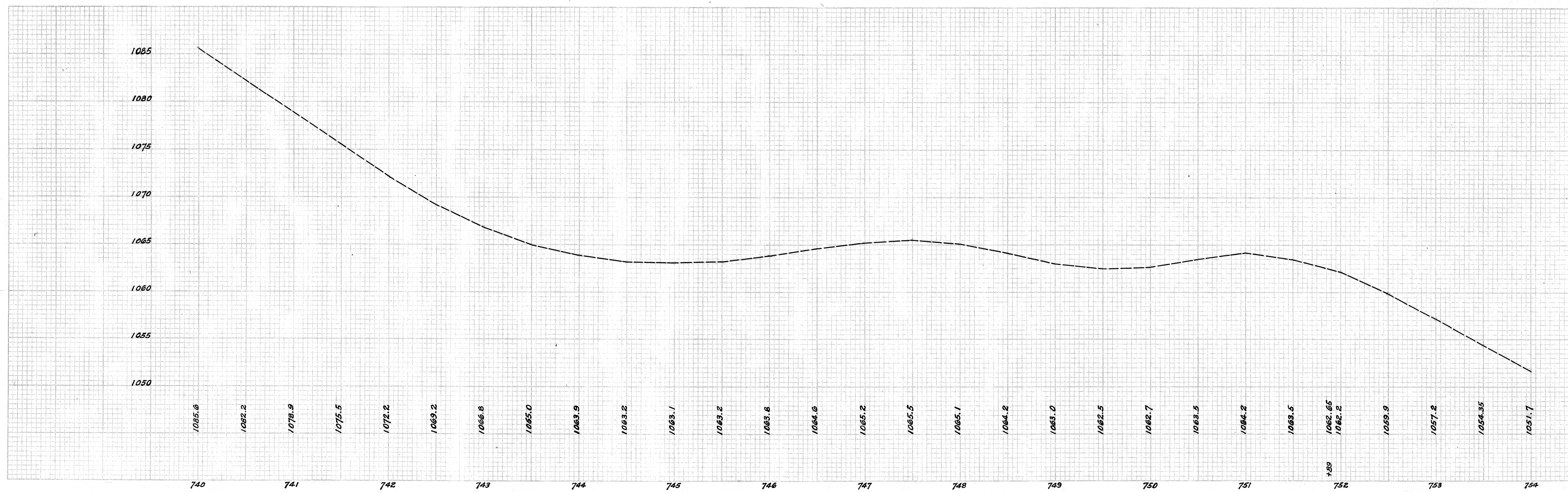
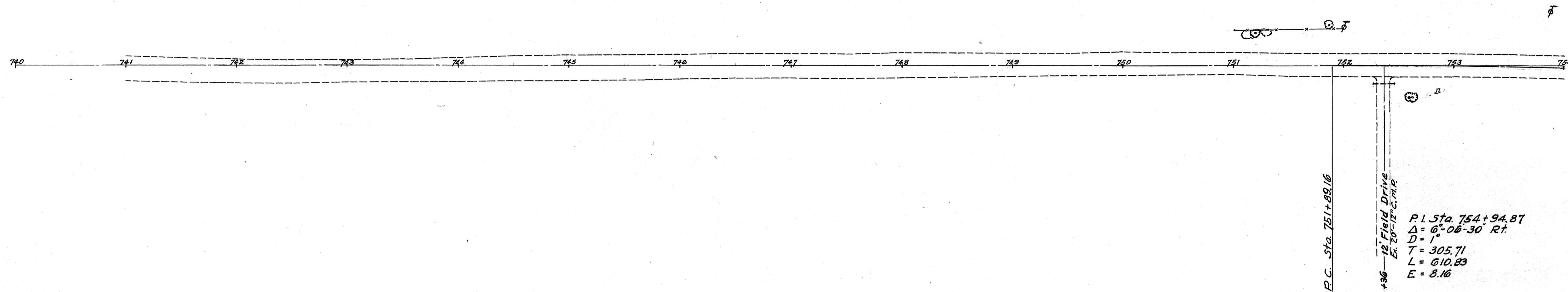
Seeding limits are indicated on the Cross Sections by the symbol "S."

COMPACTED SUBGRADE:-The Subgrade, including that of Drives, shall be compacted for a depth of six inches to the density requirements in Table III, Item E-1. Payment for subgrade compaction shall be included in the unit price bid for Item E-1, Earthwork.

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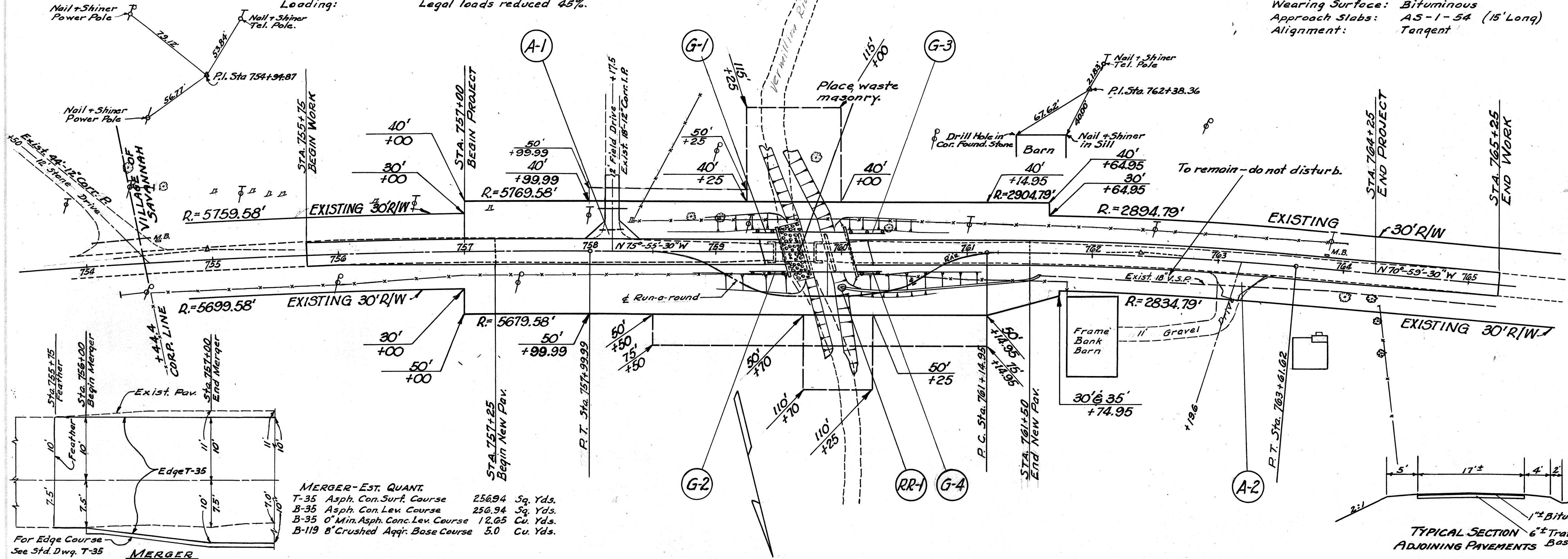
SUPPL. PLAN AND PROFILE STA 740+00 TO STA 754+00

P.I. Sta. 754+94.87
 $\Delta = 6^{\circ}-06'-30''$ Rt.
 $D = 1^{\circ}$
 $T = 305.71'$
 $L = 610.83'$
 $E = 8.16'$

EXISTING STRUCTURE
 Type: Low Truss
 Span: 31'-10" Clear
 Skew: None
 Roadway: 12'-8" Clear
 Wearing Surface: Oak Plank
 Condition: Poor
 Loading: Legal loads reduced 45%

P.I. Sta. 762+38.36
 $\Delta = 4^{\circ}-56'$ Rt.
 $D = 2^{\circ}$
 $T = 123.41'$
 $L = 246.87'$
 $E = 2.66'$

PROPOSED STRUCTURE
 Type: Continuous reinforced concrete slab with capped pile substructure.
 Spans: 16'-20" 16' 7 1/2 Bgs.
 Roadway: 32'-0" 7 1/2 Guard Rail
 Load Frequency: CF = 30 (51)
 Skew: 15" R.F.
 Wearing Surface: Bituminous
 Approach Slabs: AS-1-54 (15' Long)
 Alignment: Tangent



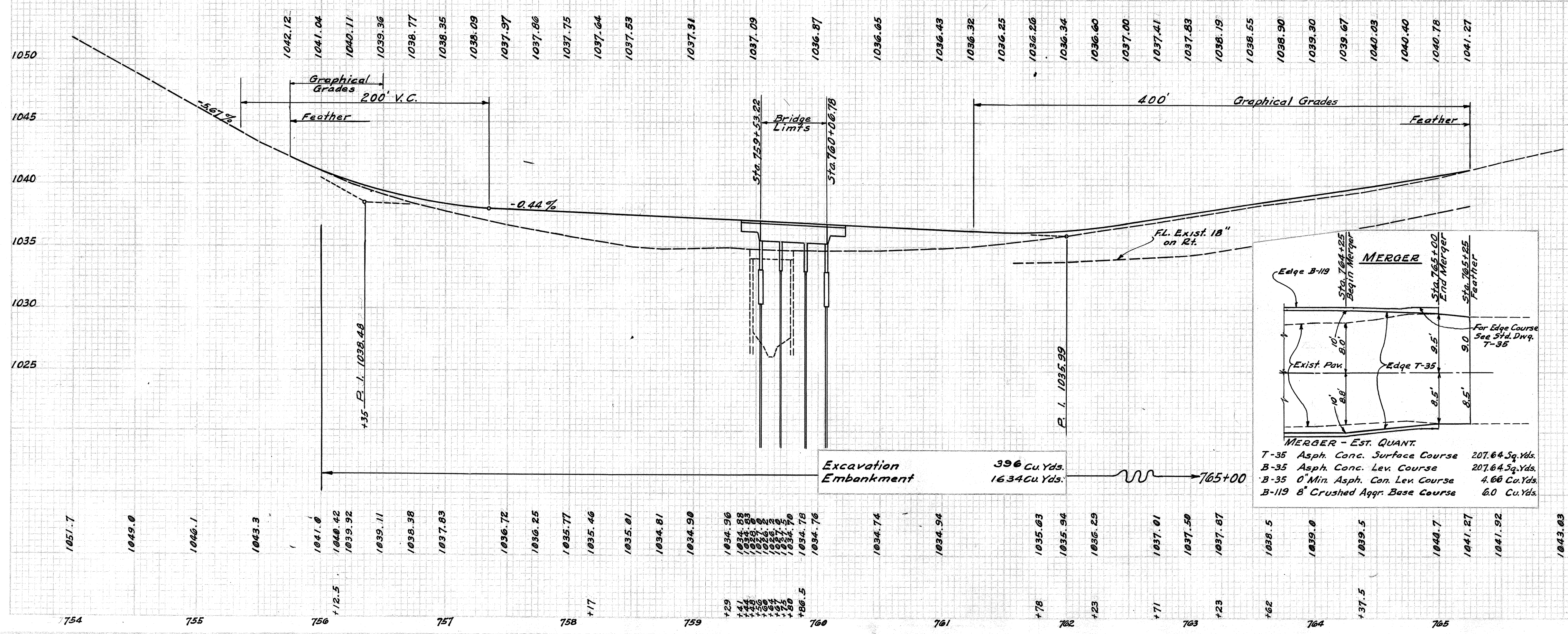
Ref. Station	T-35 2" Asphaltic Concrete Surface Course Cu.Yds.	B-119 Crushed Aggr. Base Course Cu.Yds.	I-1 Pipe for Driveways Lin.Ft.	I-10 Riprap Type A Grouted Sq.Yds.	I-15 Guard Rail Beam Type Lin.Ft.	E-12 Pipe Removed Lin.Ft.
A-1 758+17.5 Lt.		15	12"			12'
A-2 763+19.6 Rt.	3	8	28'			18'
RR-1 760+00 Rt.				4		
G-1 759+33.50-759+50.72					17.22	
G-2 759+26.00-759+55.72					29.72	
G-3 760+04.28-760+33.50					29.22	
G-4 760+03.28-760+26.00					16.72	
Totals	* 3	* 23	28	4	92.88	18

* Carried to Calculations

MERGER-EST. QUANT.

T-35 Asph. Con. Surf. Course	256.94	Sq. Yds.
B-35 Asph. Con. Lev. Course	256.94	Sq. Yds.
B-35 0 Min. Asph. Con. Lev. Course	12.65	Cu. Yds.
B-119 8" Crushed Aggr. Base Course	5.0	Cu. Yds.

For Edge Course - See Std. Dwg. T-35

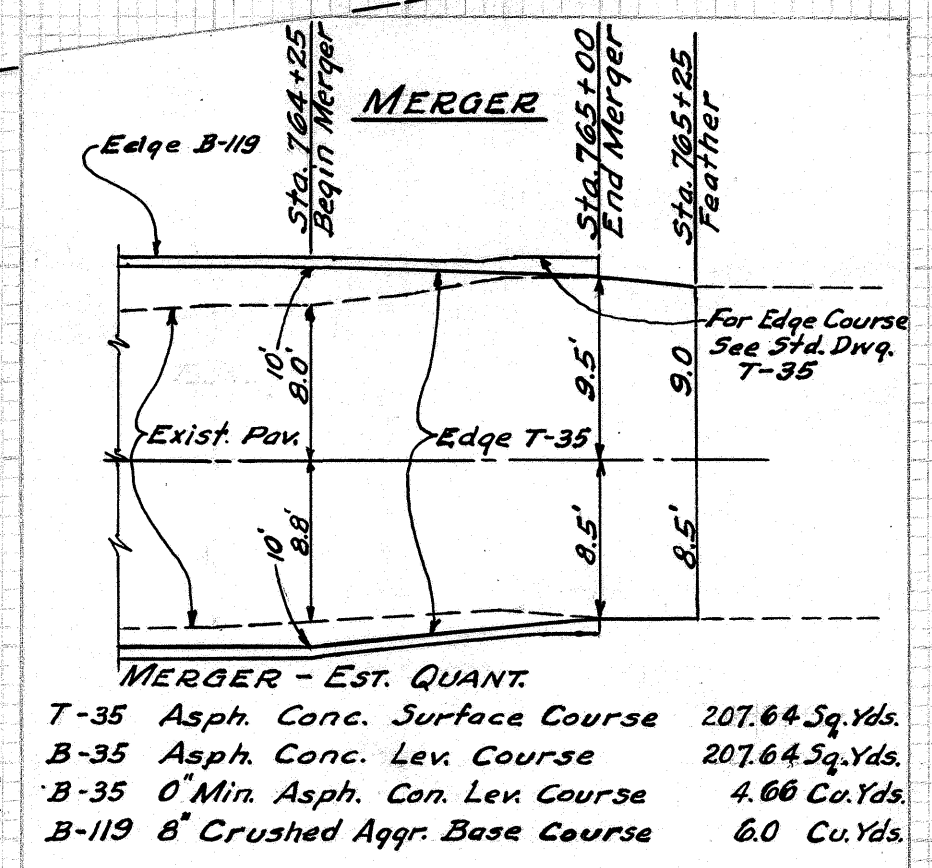


Superelevation Table

Lt. Edge Station	Station	Rt. Edge
1041.20	756+00	1040.88
1040.27	+25	1039.95
1039.52	+50	1039.20
1038.93	+75	1038.61
1038.51	757+00	1038.19
1038.25	+25	1037.93
1038.13	+50	1037.81
1037.97	+75	1037.70
1037.80	758+00	1037.59
1037.64	+25	1037.48
1037.48	+50	1037.37
1037.31	+75	1037.26
1037.15	759+00	1037.15

Superelevation Table

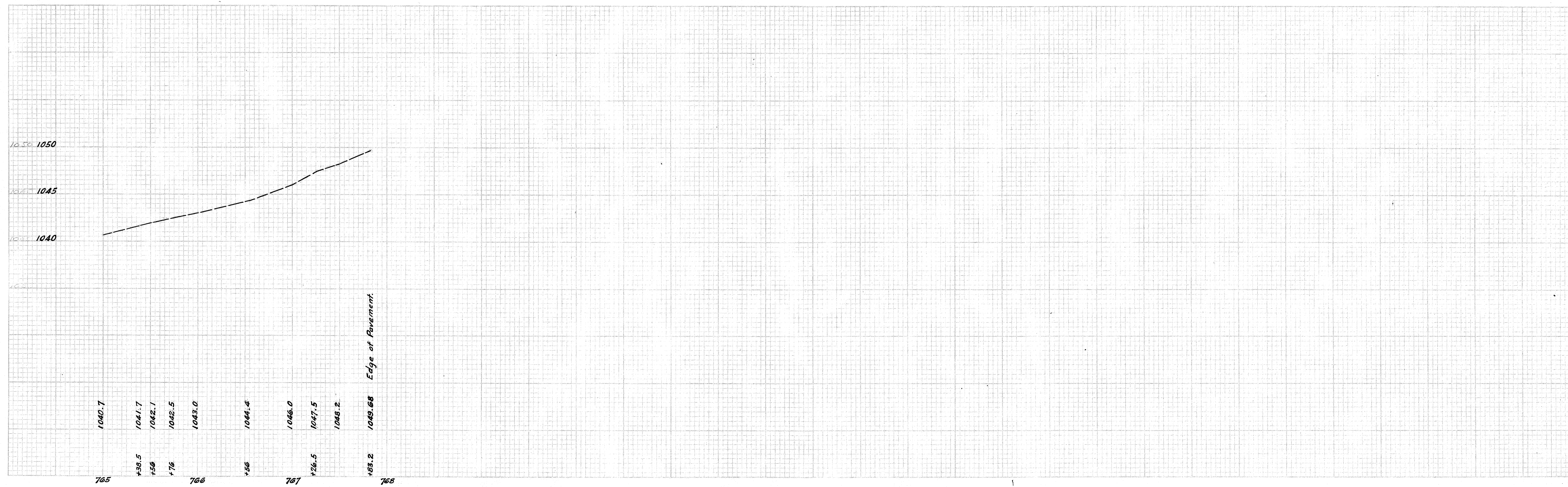
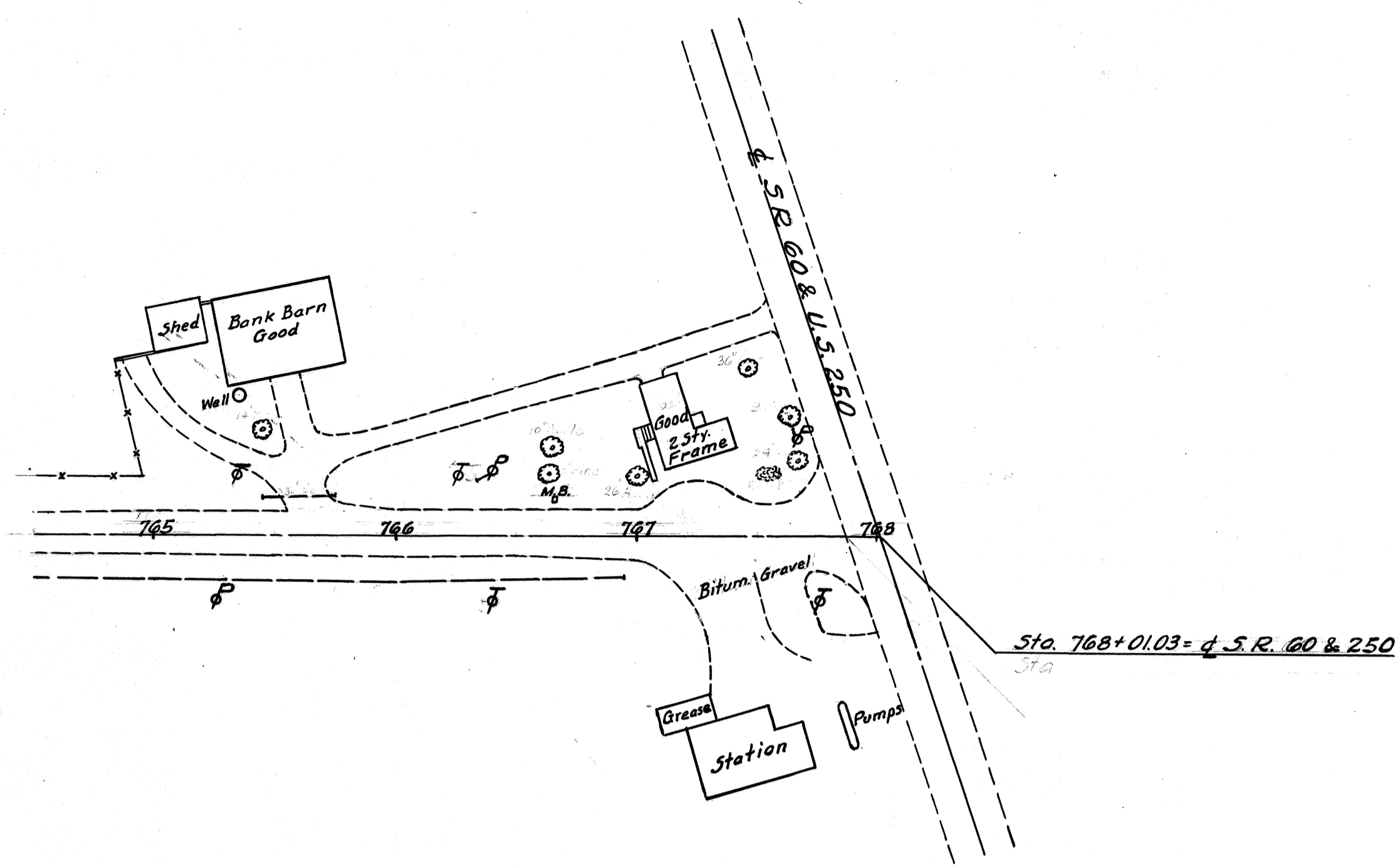
Lt. Edge Station	Station	Rt. Edge
1036.60	760+25	1036.60
1036.56	+50	1036.49
1036.52	+75	1036.38
1036.48	761+00	1036.27
1036.44	+25	1036.16
1036.44	+50	1036.09
1036.52	+75	1036.10
1036.60	762+00	1036.18
1036.86	+25	1036.44
1037.28	+50	1036.84
1037.67	+75	1037.25
1038.09	763+00	1037.67
1038.45	+25	1038.03
1038.74	+50	1038.39
1039.02	+75	1038.74
1039.35	764+00	1039.14
1039.65	+25	1039.51
1039.94	+50	1039.87
1040.24	+75	1040.24

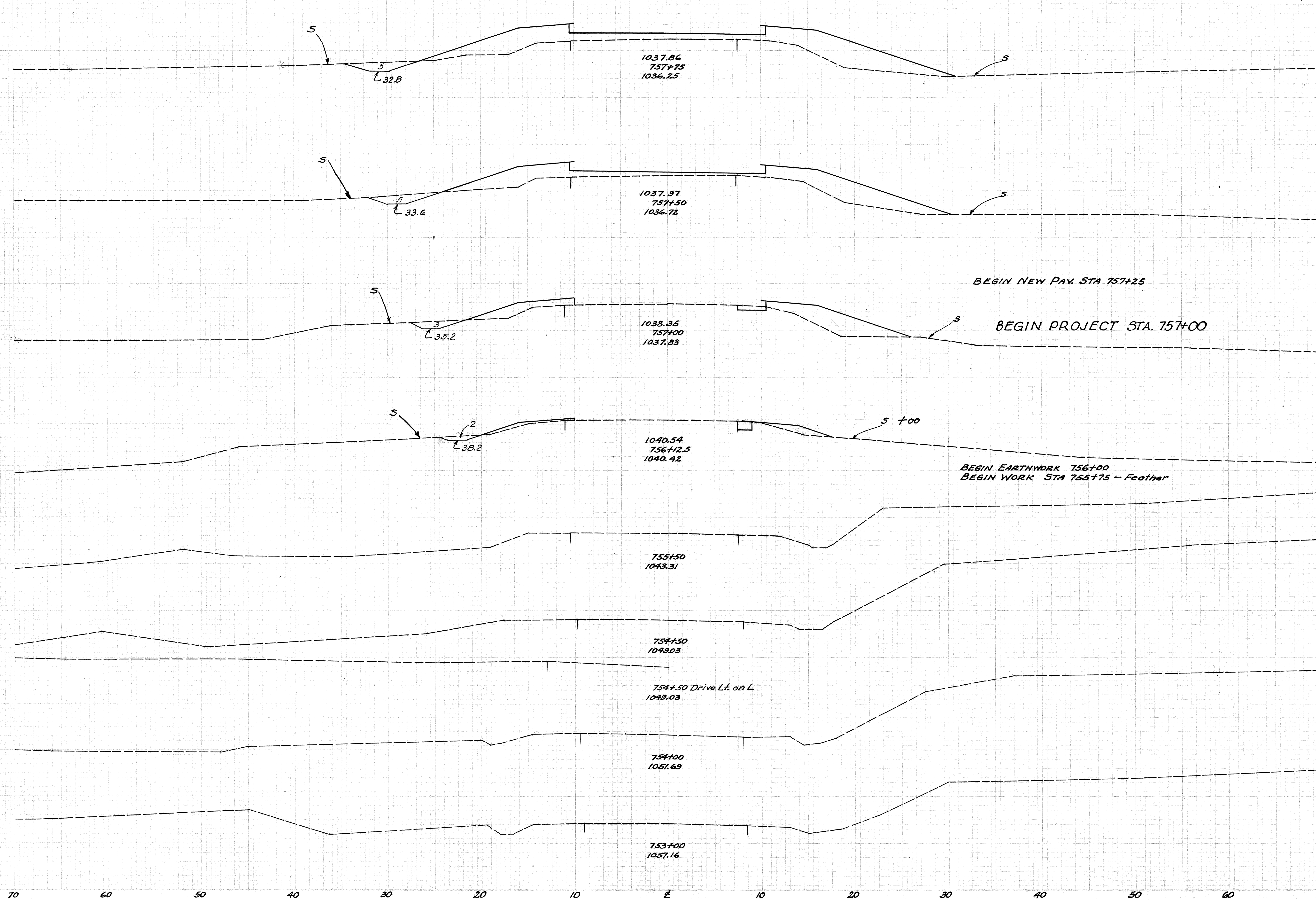


MERGER-EST. QUANT.

T-35 Asph. Conc. Surface Course	207.64	Sq. Yds.
B-35 Asph. Conc. Lev. Course	207.64	Sq. Yds.
B-35 0 Min. Asph. Con. Lev. Course	4.60	Cu. Yds.
B-119 8" Crushed Aggr. Base Course	6.0	Cu. Yds.

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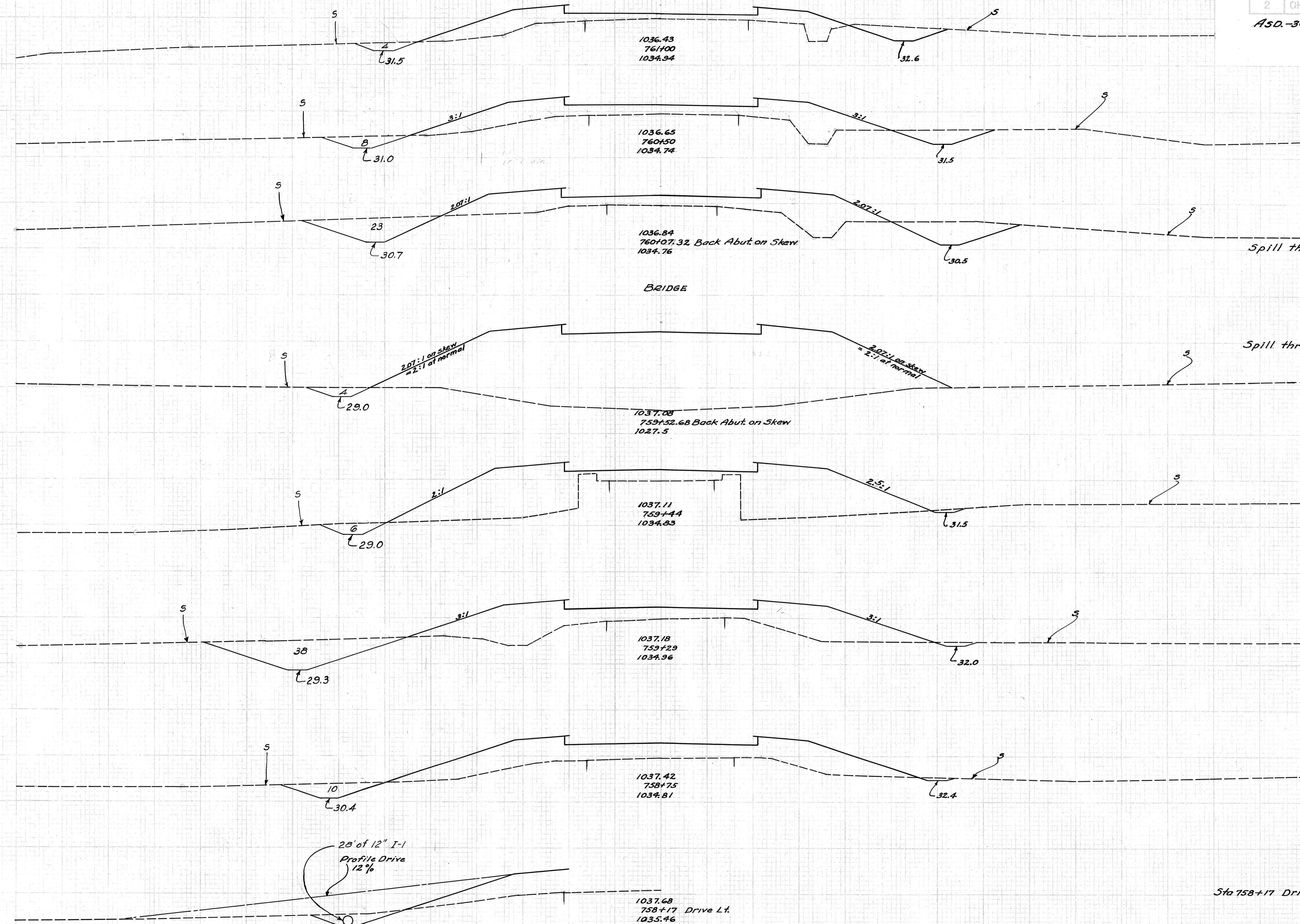




End Area	Cu. Yds.	
	Cut	Fill
5	77	
		5 64
5	60	
		10 86
5	33	
		15 65
4	7	
		1 2
756+00	1	0

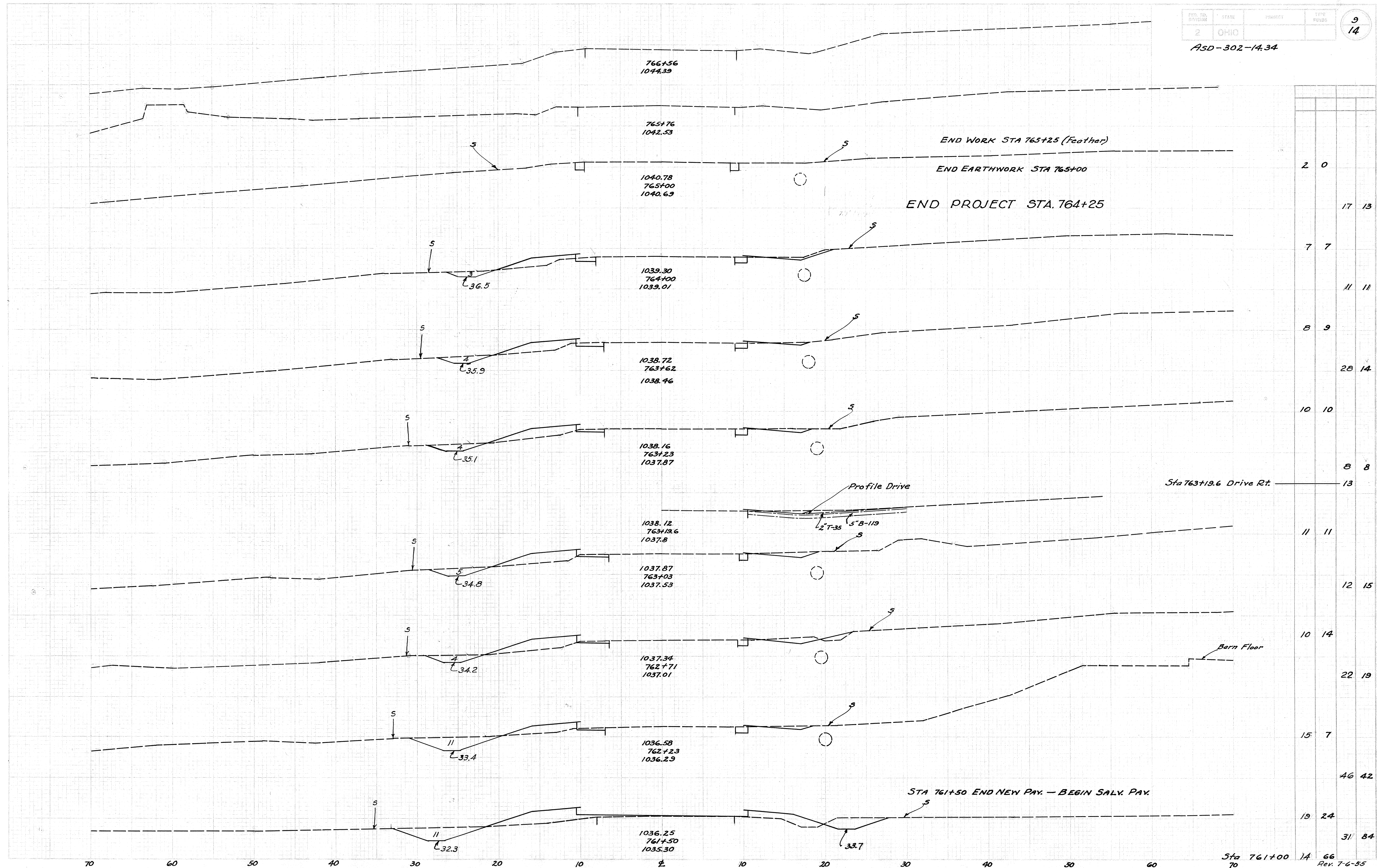
CROSS SECTIONS STA 753+00 TO STA 757+75

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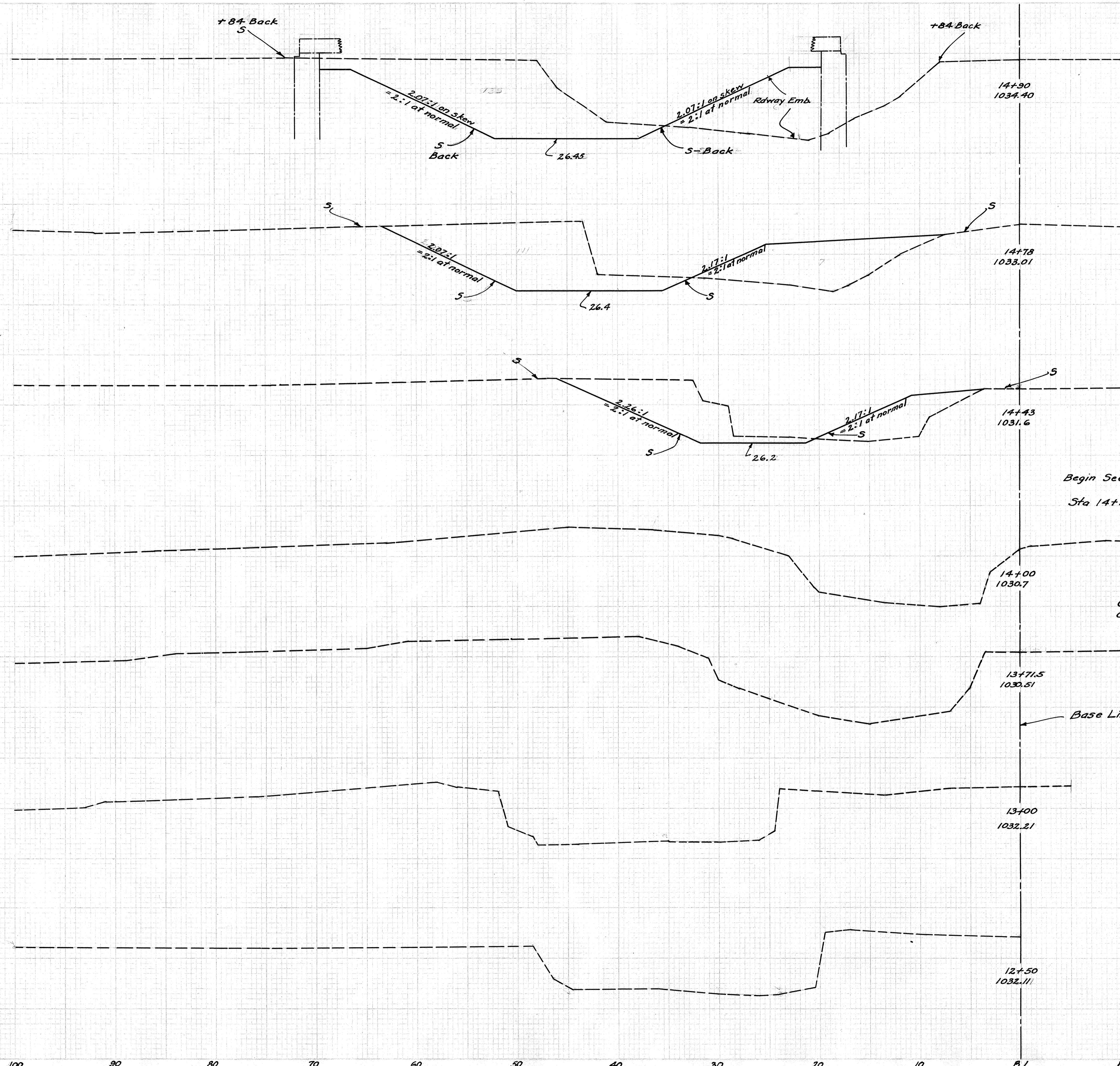
End Area	Cu. Yds.
14 66	
18 84	30 139
44 86	51 134
44 86	
Spill thru Emb.	15
4 382	90
2 123	
Ahead Back	7 382 7 180
13 84	
40 121	
51 232	
11 111	
30 348	
Sta 758+17 Drive Lt.	46

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20	17	13
7	7	11
8	9	28
10	10	10
8	8	13
11	11	11
12	15	12
10	14	10
22	19	19
15	7	7
46	42	42
19	24	24
31	84	84

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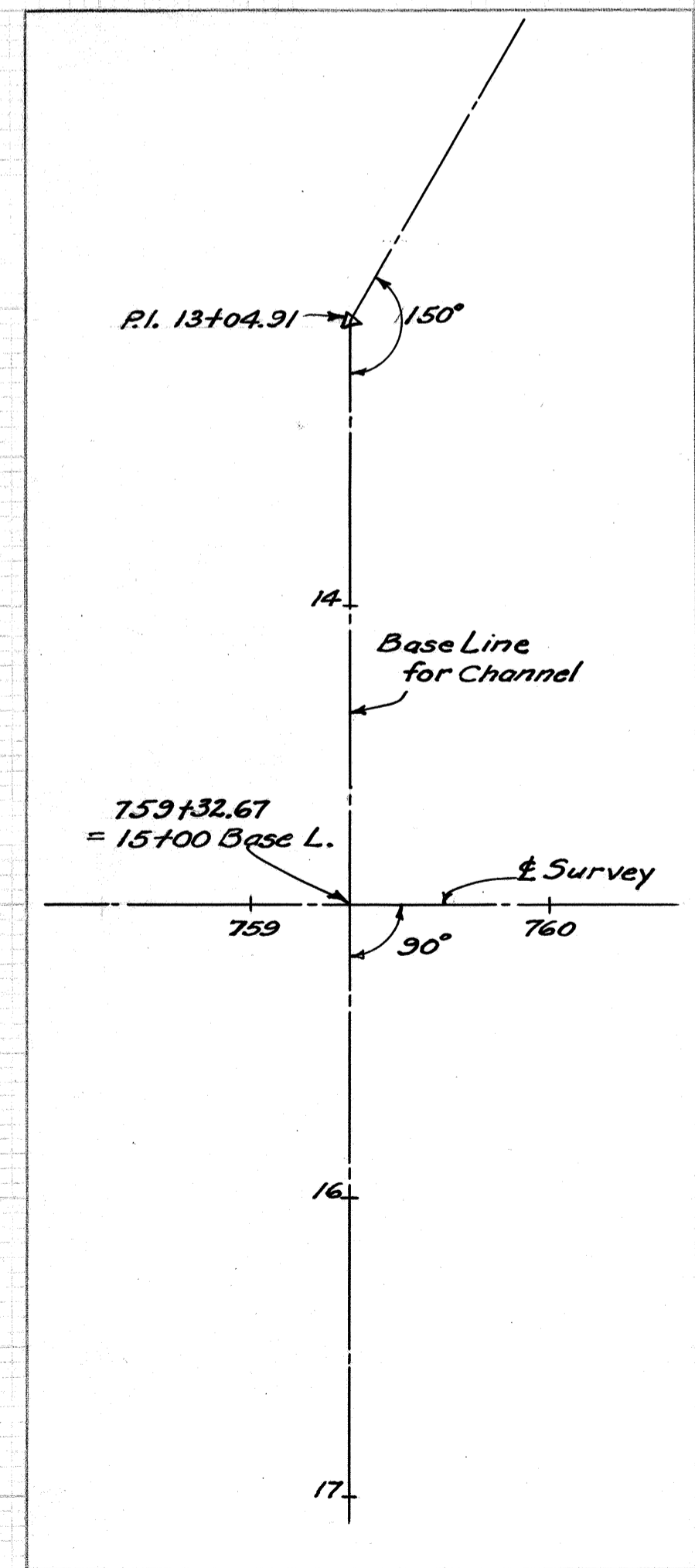


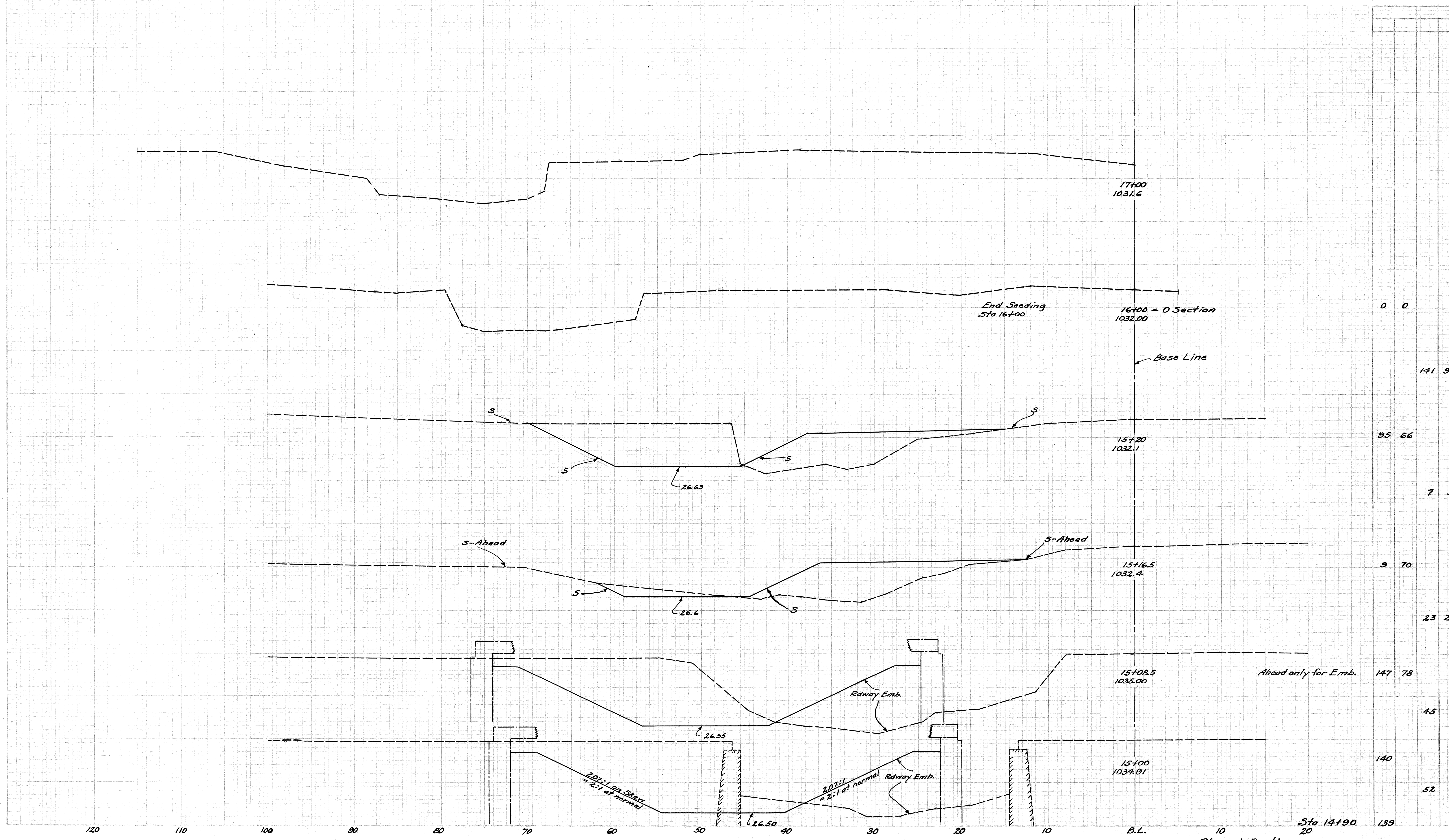
End Area		Cu. Yds.	
Cut	Fill	Cut	Fill
139	69		
		56	32
111	73		
		112	71
62	37		
		32	19
0	0		

Back only for Emb.

Begin Seeding 14+15
Sta 14+15=0 Section

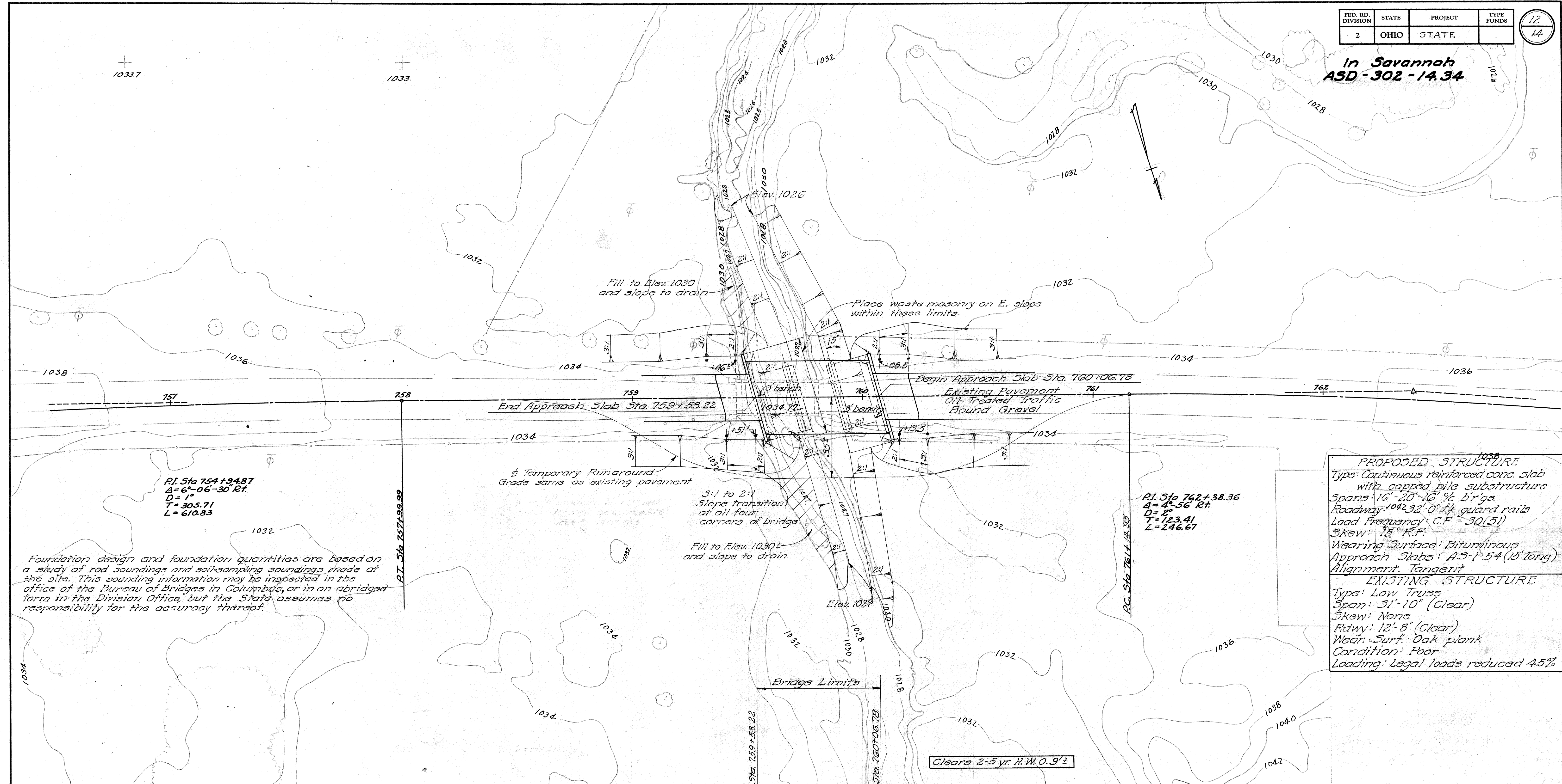
Channel Excav. = 468 Cu. Yds.
Channel Emb. = 251 Cu. Yds.





	0	0
	141	98
	95	66
	7	9
	9	70
	23	22
	147	78
	45	0
	140	
	52	0
	139	

In Savannah
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P.I. Sta 754+94.87
Δ = 6'-06"-30" Rt.
D = 17'
T = 305.71
L = 610.83

Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus, or in an abridged form in the Division Office, but the State assumes no responsibility for the accuracy thereof.

P.T. Sta 757+99.99

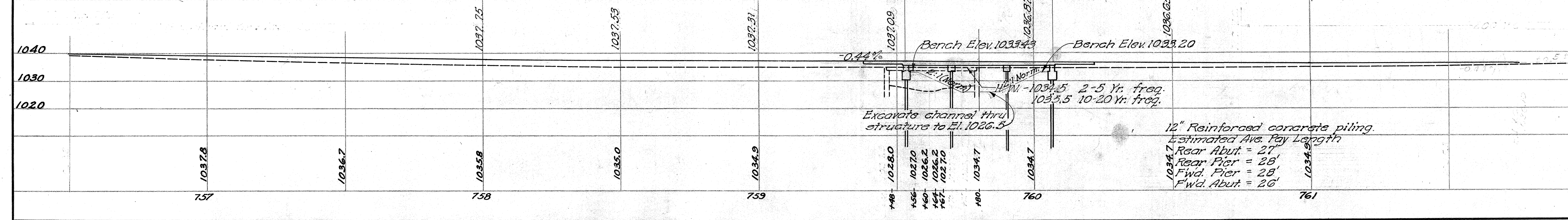
P.I. Sta 762+38.36
Δ = 4'-56" Rt.
D = 8'
T = 123.41
L = 246.67

PROPOSED STRUCTURE
Type: Continuous reinforced conc. slab with capped pile substructure
Spans: 16'-20'-16' 1/2 br'gs.
Roadway: 104' 32" 0" 1/4 guard rails
Load Frequency: C.F. = 30(51)
Skew: 15° R.F.
Wearing Surface: Bituminous
Approach Slabs: AS-1-54 (15' long)
Alignment: Tangent

EXISTING STRUCTURE
Type: Low Truss
Span: 31'-10" (Clear)
Skew: None
Rdwy: 12'-8" (Clear)
Wear. Surf: Oak plank
Condition: Poor
Loading: Legal loads reduced 45%

Clears 2-5 yr. H.W. 0.9'±

Drainage Area - 37.5 Sq. Miles



Excavate channel thru structures to El. 1026.5
12" Reinforced concrete piling.
Estimated Ave. Pile Length
Rear Abut. = 20'
Rear Pier = 28'
Fwd. Pier = 28'
Fwd. Abut. = 26'

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
BUREAU OF BRIDGES

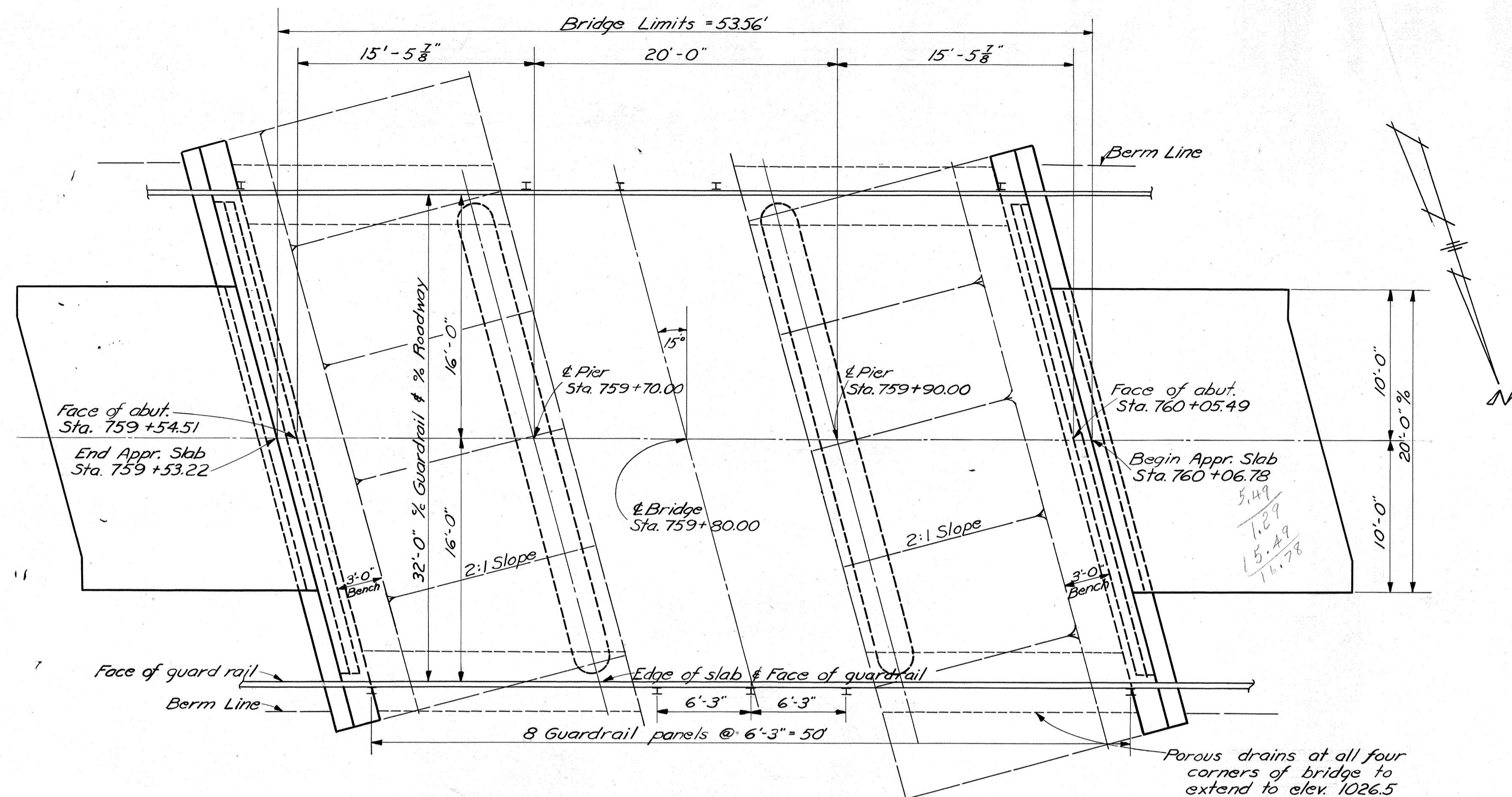
SITE PLAN
BRIDGE NO. AS-302-144
OVER VERMILION RIVER
ASHLAND CO S.R. 302
STA. 759+53.22
SCALE 1"=20'
760+06.78

PRESENT SURVEYED	TOPOGRAPHY DRAWN	PROPOSED WORK DESIGNED	DRAWN	CHECKED	REVIEWED
Aerial Survey	Aerial Survey	ADC	ADC	J.H.B.	C.T.A.

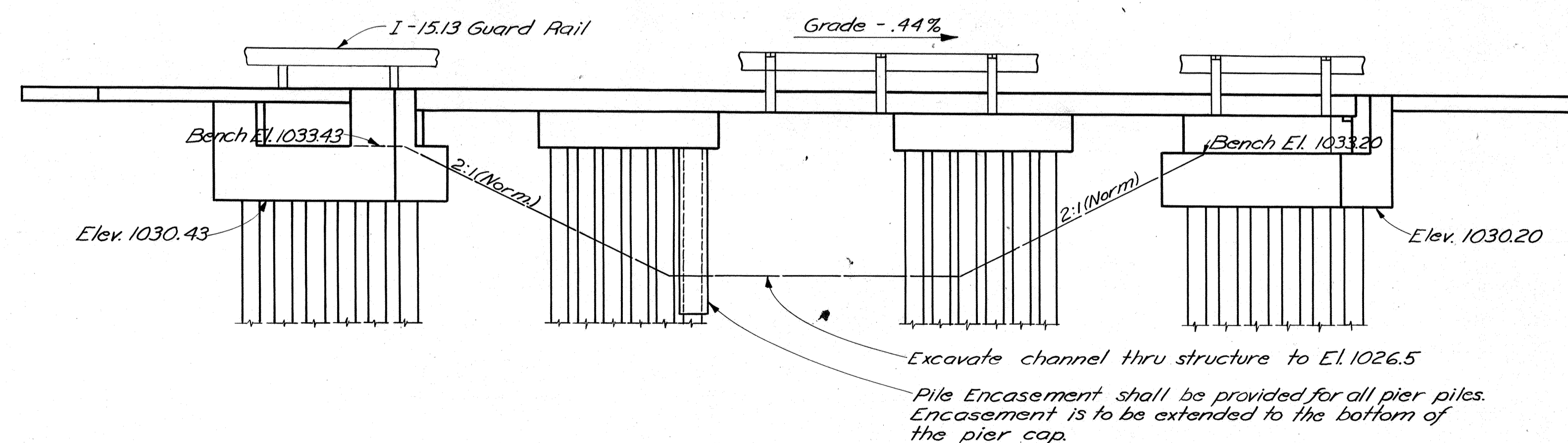
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GENERAL NOTES

- REFERENCE shall be made to Standard Drawings CS-1-54, A-1-54, and P-1-54, all revised 12-1-54.
- TEMPORARY RUN-AROUND BRIDGE AND APPROACHES. Bridge frequency rating, CF=30 with 14' roadway. T-10 surface course 16' wide on approaches, and embankment 22' out-to-out at the shoulders. Grade of run-around to be the same as existing structure. Existing bridge may be moved and used without widening if present posting is maintained.
- REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed. The West abutment shall be removed to proposed ground lines. The East abutment shall be removed to 3' below proposed ground lines. Waste masonry shall be used as bank protection where shown on the site plan. The remainder of the removed materials shall become the property of the Contractor.
- PILING shall be driven to a minimum bearing capacity of nineteen tons.
- POROUS DRAINS extending from face of abutment to Elev. 1026.5, shall be placed at all four corners of the bridge. The drains shall be 4ft. wide and one foot thick.
- GRAVEL, if used as the coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class "C" concrete, superstructure and pier caps. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.
- ASPHALTIC CONCRETE SURFACE COURSE, Item T-35 laid in two courses, shall be provided.
- GALVANIZING of all members which are specified to be galvanized, shall be as called for in Sec. M-7.4(d)



GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Superstr.	Abut.	Piers	Gen.
E-2	52	cu.yd.	Unclassified excavation		52		
E-3	468	cu.yd.	Channel excavation				468
S-1	67	cu.yd.	Class "C" concrete, superstructure and pier caps.	55		12	
S-1	39	cu.yd.	Class "E" concrete, abutments.		39		
S-3	203	sq.yd.	Type "C" waterproofing	203			
S-4	21061	lbs.	Reinforcing steel	13,334	4,315	3,314	98
S-14	10712	lin.ft.	Railing (Type I-15.13 with galvanized steel posts)	10712			
S-15		lump sum	Temporary run-around bridge & approaches				lump
S-16		lump sum	First test pile				lump
S-18	660	lin.ft.	12" cast-in-place reinforced concrete piling		320	340	
S-24		lump sum	Removal of existing structure				lump
S-29	11	cu.yd.	Porous drains on embankment slopes				11
S-29	12	cu.yd.	Porous backfill		12		
T-35	12	cu.yd.	Asphaltic concrete surface course, Type "A" or "C" (85-100)	12			
S-15	162	cu.yd.	T-10 surface course for run-around approaches				162
S-15	4	tons	Chloride (M-10) for surface course of run-around approaches				4

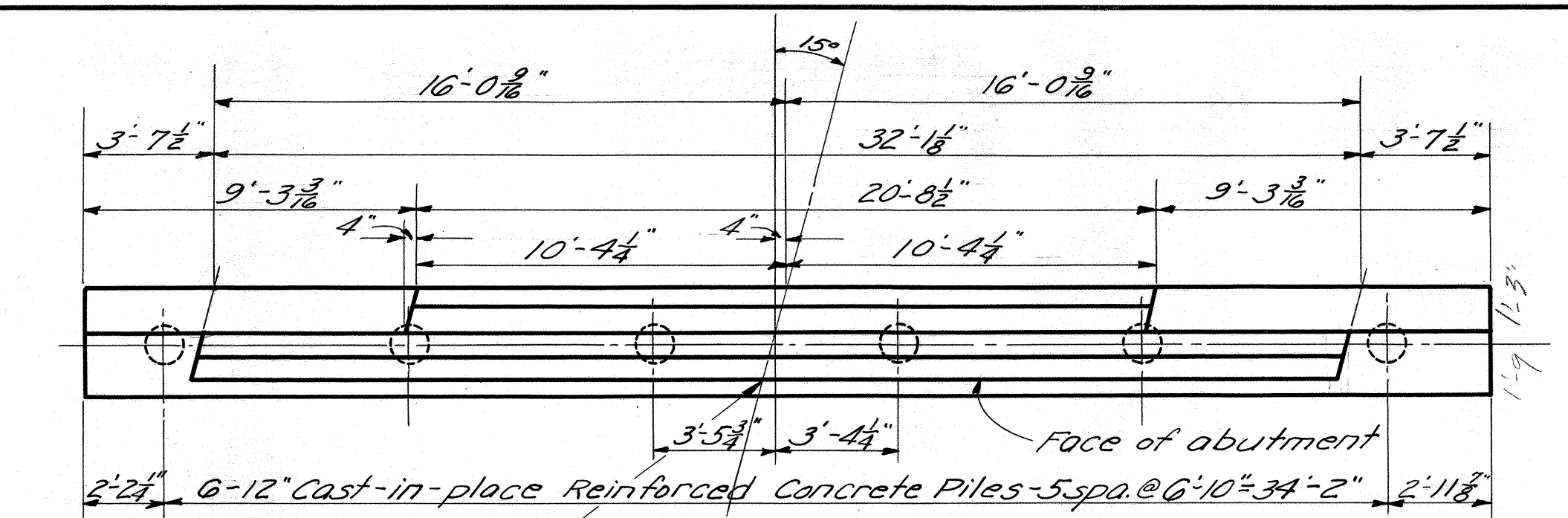
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

**GENERAL PLAN & ELEVATION
NOTES & ESTIMATED QUANTITIES**

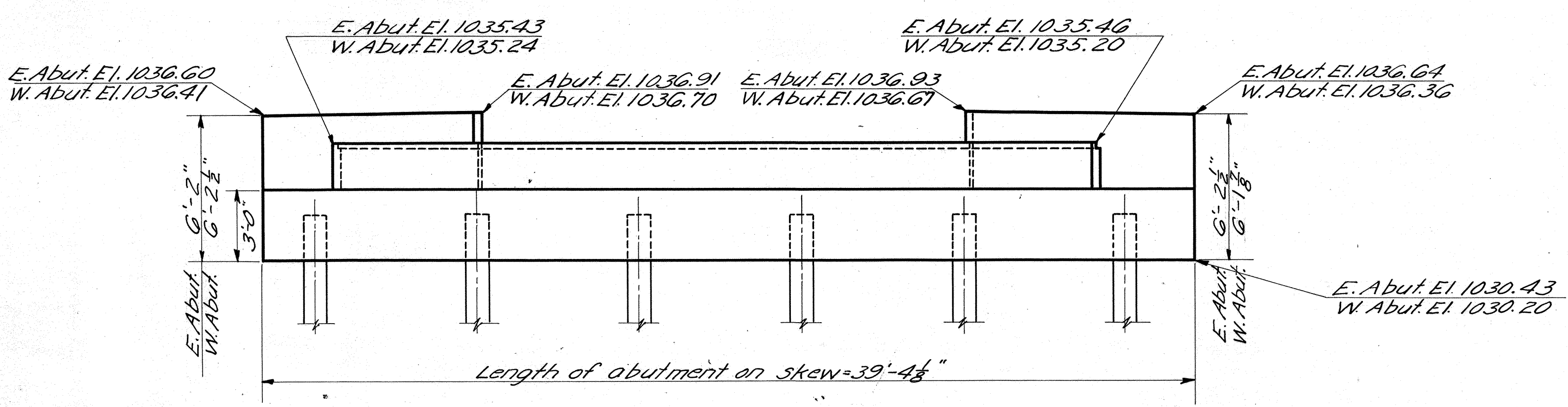
BRIDGE NO. AS-302-144
OVER VERMILION RIVER
ASHLAND COUNTY STA. 759+53.22
STA. 760+06.78

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E. B. L.	E. B. L.	BCM	C.P.D.	BFG	2-28-55	

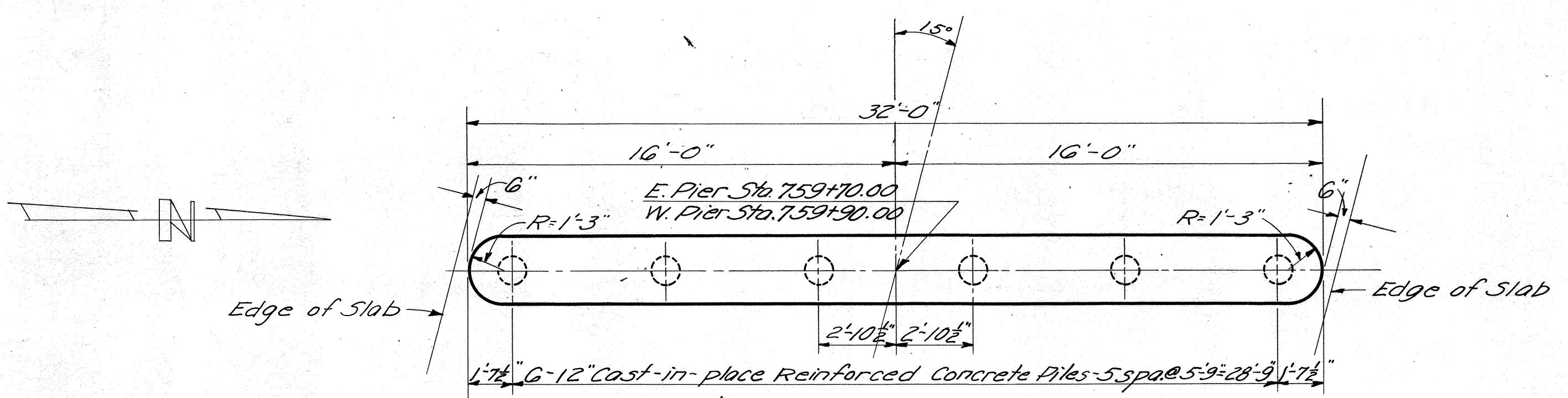
ASD-302-14.34



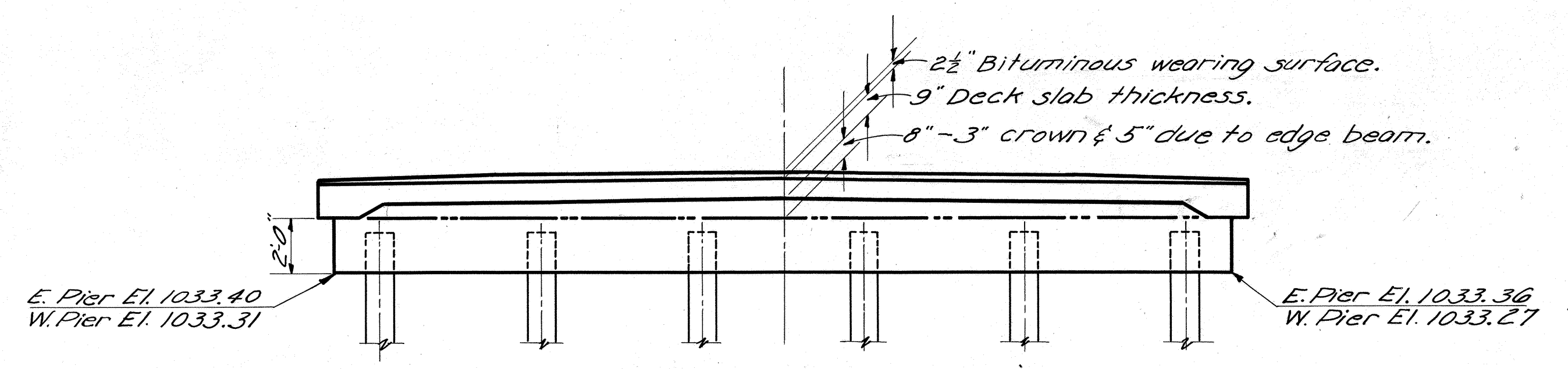
ABUTMENT PLAN
E. Abut. Sta. 759+54.51
W. Abut. Sta. 760+05.49



ABUTMENT ELEVATION



PIER PLAN



PIER ELEVATION

REINFORCING STEEL LIST					BENDING DIAGRAMS	
MARK	NO.	LENGTH	WEIGHT	SHA		
ABUTMENTS						
R401	48	5'-5"	174	B	1-11/4"	
R501	16	20'-3"	338	S	2-1/4"	
R502	16	6'-7"	797	B	3-3/4"	
R503	8	16'-7"	138	S	3'-0"	
R504	24	5'-4"	134	S	3'-3/4"	
R505	28	7'-11"	231	B		
R506	8	8'-7"	72	S		
R507	16	5'-1"	85	S		
R508	16	6'-8"	111	B		
R509	16	8'-5"	140	B		
R801	16	20'-10"	890	S		
R1001	16	17'-6"	1205	S		
PIERS						
P401	48	5'-5"	174	B	1-11/4"	
P501	4	29'-6"	123	S	R=11 1/2"	
P502	48	9'-0"	451	B	1-7 1/4"	
P503	8	6'-4"	53	B		
P701	72	4'-0"	589	S		
P901	8	29'-6"	802	S		
P1001	8	32'-7"	1122	S		
SUPERSTRUCTURE						
A700	81	19'-3"	3187	S	2'-10 3/8"	
B700	26	15'-0"	791	B	15'-2 3/8"	
C700	26	13'-4"	709	B		
D700	13	14'-8"	390	S		
E700	13	10'-8"	283	S		
F700	62	13'-8"	1732	S		
G700	30	9'-2"	562	S		
H700	30	8'-0"	491	S		
J601	32	12'-0"	577	S		
K601	16	10'-8"	256	S		
M601	48	32'-7"	2349	S		
N601	41	32'-7"	2007	S		
REPLACEMENT BARS						
RE1001	1	7'-2"	31	S	14'-2" %	
RE301	1	6'-10"	23	S	12'-6" %	
RE401	1	6'-6"	17	S		
RE701	1	4'-0"	8	S		
RE601	1	5'-11"	9	S		
RE501	1	5'-7"	6	S		
RE401	1	5'-3"	4	S		

STATE OF OHIO
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BUREAU OF BRIDGES

STEEL LIST & ABUTMENT & PIER PLANS & ELEVATIONS

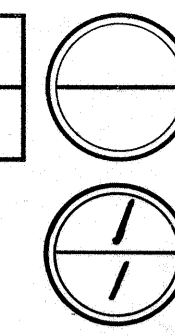
BRIDGE NO. AS-302-144
OVER VERMILION RIVER

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DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
E. B. L.	E. B. L.	SA	C. P. D.	BFG	2-28-55	

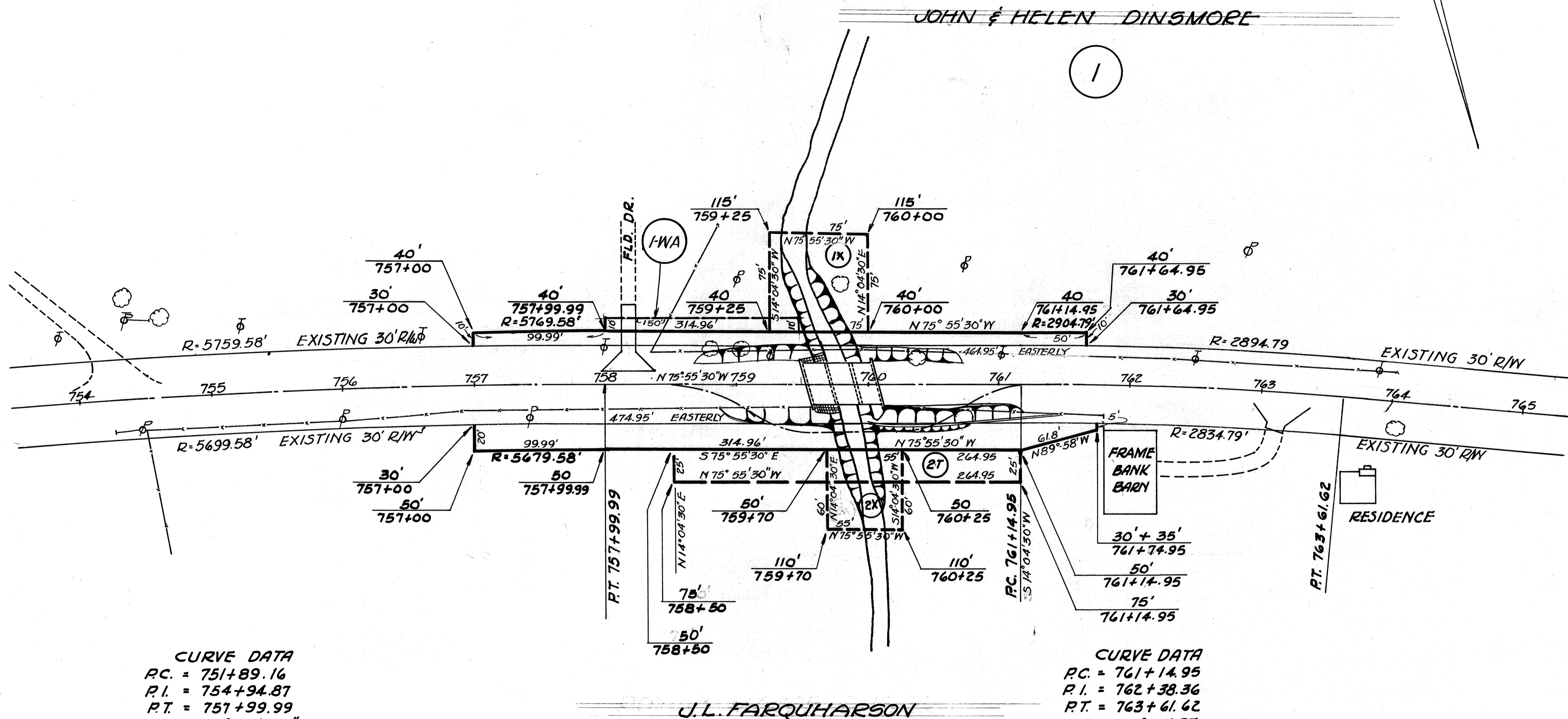
FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO		

ASD-302-1434
RIGHT OF WAY PLANS



R/W SHOWN ON THIS PLAN SECURED BY EASEMENTS OR APPROPRIATION.

DECEMBER 1954



CURVE DATA
 P.C. = 751+89.16
 P.I. = 754+94.87
 P.T. = 751+99.99
 Δ = 6° 06' 30" RT
 D = 1° 00'
 T = 305.71'
 L = 610.83'
 E = 8.16'
 R = 5729.58'

CURVE DATA
 P.C. = 761+14.95
 P.I. = 762+38.36
 P.T. = 763+61.62
 Δ = 4° 56' RT
 D = 2° 00'
 T = 123.41'
 L = 246.67'
 E = 2.66'
 R = 2864.79'

CLEARCREEK TWP - SEC 11 - T25N - R17W