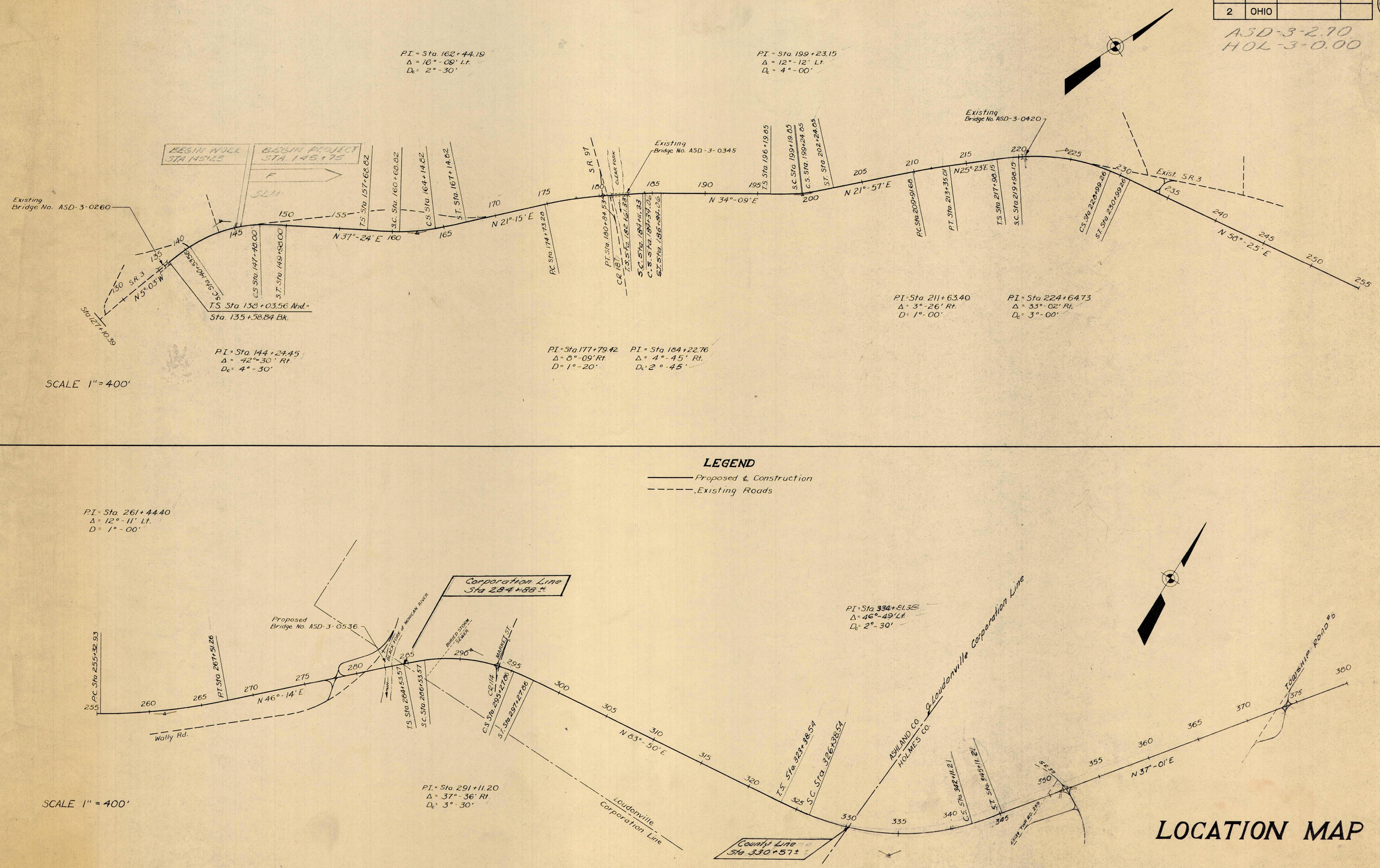
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ASD-3-2.70
HOL-3-0.00



LEGEND

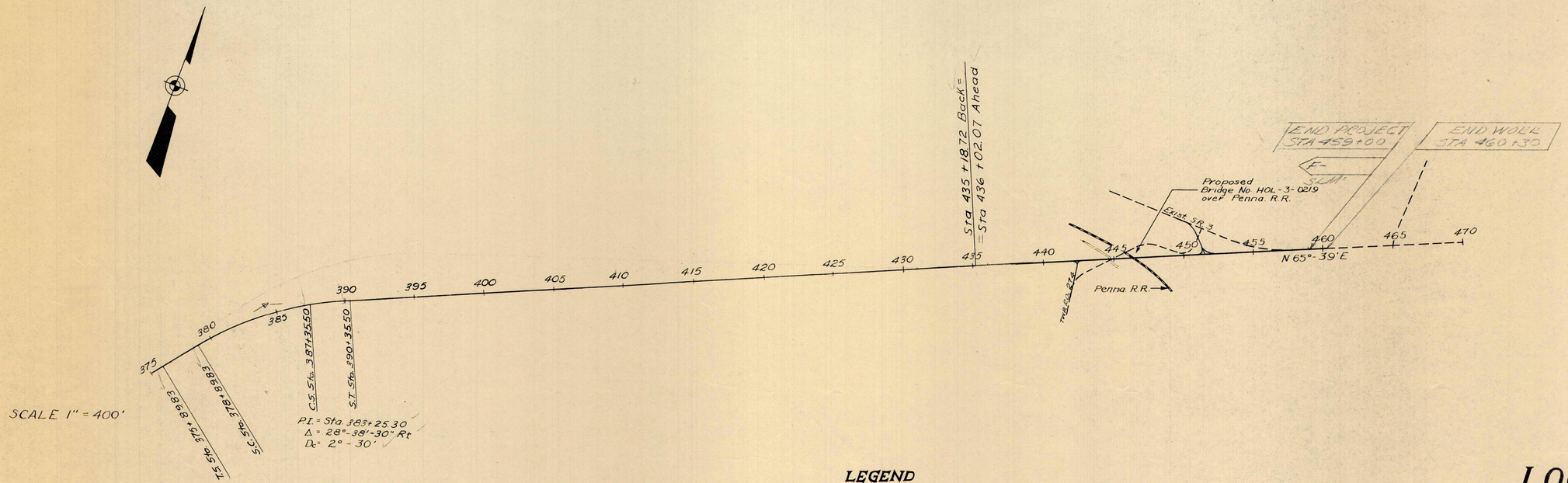
——— Proposed ℄ Construction
– – – – – Existing Roads

SCALE 1" = 400'

LOCATION MAP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ASD 3-2.70
HOL-3-0.00

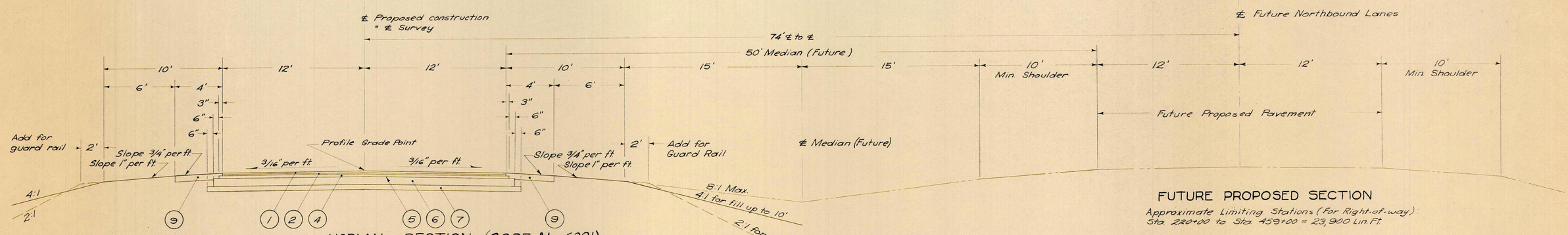


LOCATION MAP

TYPICAL SECTIONS

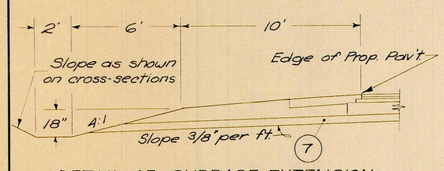
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

TYPE: T-35 on B-119
Scale: 1/4" = 1'



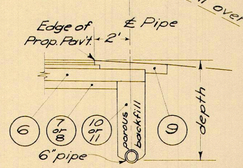
NORMAL SECTION (CODE No. 6201)

LIMITING STATIONS		LENGTH
Sta. 145+75 to Sta. 190+50	=	4475.00 Lin. Ft.
Sta. 196+25 to Sta. 219+00	=	2275.00 Lin. Ft.
Sta. 224+00 to Sta. 431+75	=	20775.00 Lin. Ft.
Sta. 436+05 to Sta. 459+00	=	2295.00 Lin. Ft.
Deduct for Bridges ℄ App. Slabs:		
Sta. 181+11 to Sta. 182+92	=	-181.00 Lin. Ft.
Sta. 281+74.67 to Sta. 284+37.33	=	-262.66 Lin. Ft.
Sta. to Sta.		Lin. Ft.
Net Length =		Lin. Ft.



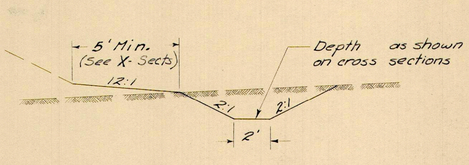
DETAIL OF SUBBASE EXTENSION UNDER SHOULDER

LIMITING STATIONS	SIDE	LENGTH
Sta. 170+25 to Sta. 174+25	Left	400 Lin. Ft.
Sta. 207+00 to Sta. 209+50	Left	250 Lin. Ft.
Total Length =		650 Lin. Ft.



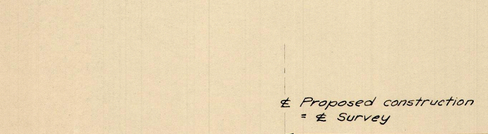
DETAIL OF PIPE UNDERDRAIN

To be used where called for on plans.
Depth = 5'-6" for deep I-4,
= 3'-6" for shallow I-4,
unless otherwise indicated by ℄ Elev. on plan & profile sheets.

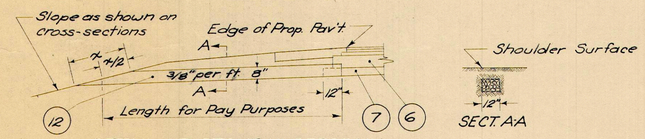


FUTURE PROPOSED SECTION

Approximate Limiting Stations (For Right-of-way):
Sta. 220+00 to Sta. 459+00 = 23,900 Lin. Ft.

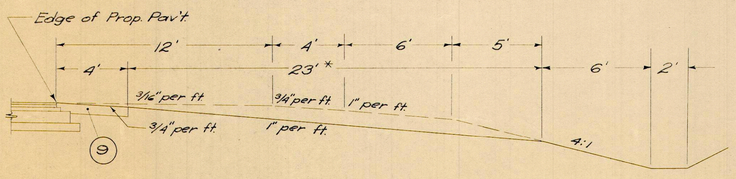


DETAIL OF SHOULDER TREATMENT ON HIGH SIDE OF SUPERELEVATED CURVES



DETAIL OF STONE UNDERDRAIN

To be used at 50' intervals per side, staggered at 25' intervals on alternate sides at normal crowned sections; or at 25' intervals on the low side of superelevated sections; where subbase is not extended under shoulder or drained by I-4, or as directed by the Engineer.



* Varies from 6' at Sta. 304+50 to 23' at Sta. 306+00. Varies from 23' at Sta. 328+00 to 6' at Sta. 329+50.

SPECIAL SHOULDER DETAIL
LIMITING STATIONS
Sta. 304+50 to Sta. 329+50

Dashed lines represent future surface for truck climbing lane.

LEGEND

(1)	Item T-35	1½" Asphaltic Concrete Surface Course, Type A (70-85)
(2)	Item B-35	1¼" Asphaltic Concrete Leveling Course (70-85)
(3)	Item B-35	0" Minimum Asphaltic Concrete Leveling Course (70-85)
(4)	Item B-35	2¾" Asphaltic Concrete Base Course (70-85)
(5)	Item T-30	Bituminous Prime Coat, Sec. M-5.3, MC-0 or MC-1; or Sec. M-5.7, RT-2 or RT-3; applied at the rate of 0.35 gal. per sq. yd.
(6)	Item B-119	8" Crushed Aggregate Base Course
(7)	Item I-22	5" Subbase (See Note A)
(8)	Item I-22	12" Subbase
(9)	Item I-18	6" Stabilized Crushed Aggregate Shoulders (See Note B)
(10)	Item I-4	Underdrains (Deep)
(11)	Item I-4	Underdrains (Shallow)
(12)	Item I-9	Stone Underdrains (No. 2)
(A)		Existing Pavement - Bituminous Surface on Brick or Concrete Base (Code No. 6807)
(B)		Existing Pavement - Bituminous Surface on Flexible Base (Code No. 6201)

NOTES

Reference shall be made to Standard Drawing RI-1 for rounding changes of slope, for standard roadway ditch, and for back slopes to be used in cuts.

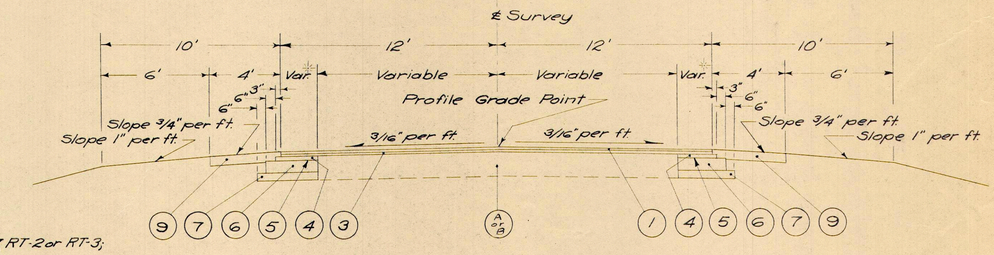
For limits of Seeding and Protecting, see General Notes.

Note A: This Item is not required from Sta. 304+00 to Sta. 308+50, from Sta. 315+00 to Sta. 319+00, nor from Sta. 361+50 to Sta. 365+00.

Note B: See note in Proposal for additional stabilization with Calcium Chloride in upper three inches (3") of this item.

Note C: Resurfacing shall be restricted to 1½" T-35 from Sta. 220+25 to Sta. 220+75.

Note D: Where speed change Lanes or passing Lanes occur, pavement shall be same as ℳ pavement shown on these Typical Sections.

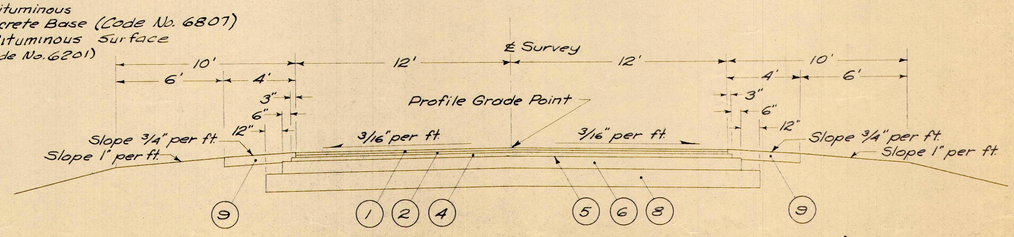


SALVAGE SECTION

LIMITING STATIONS		LENGTH
(A) Sta. 190+50 to Sta. 196+25	=	575.00 Lin. Ft.
(8) Sta. 219+00 to Sta. 224+00	=	500.00 Lin. Ft.

* Width = 0 from Sta. 219+00 to Sta. 224+00

(See Note C)



DEEP SUBBASE SECTION (CODE No. 6201)

Sta. 435+18.72 Back = Sta. 436+02.07 Ahead

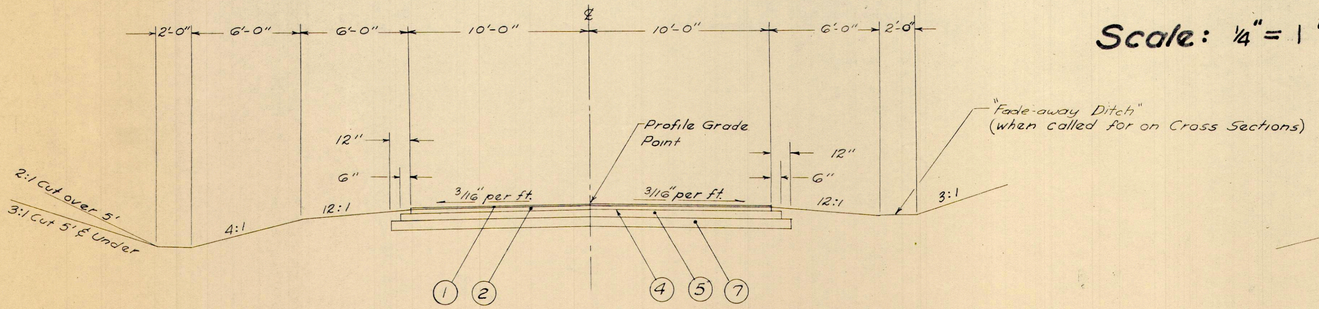
LIMITING STATIONS	LENGTH
Sta. 344+25 to Sta. 348+00 =	375.00 Lin. Ft.
Sta. 425+50 to Sta. 428+00 =	250.00 Lin. Ft.
Sta. 431+75 to Sta. 436+05 =	430.00 Lin. Ft.
Correction for Station Equation:	83.35 Lin. Ft.
Net Length =	971.65 Lin. Ft.

TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

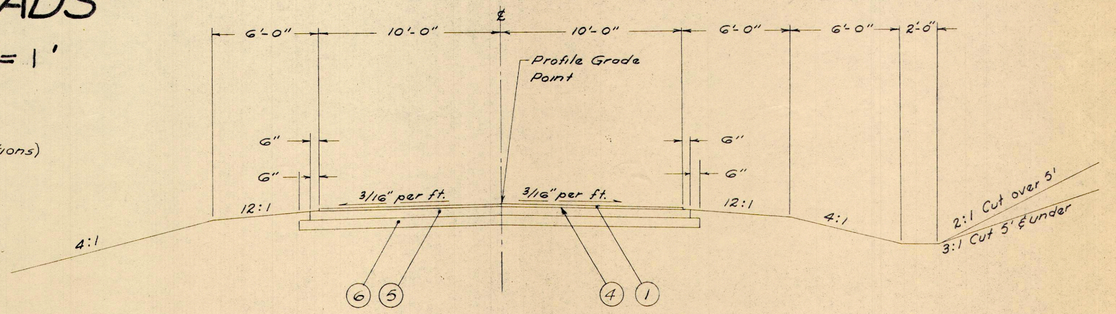
TYPICAL SECTIONS
SIDE ROADS

Scale: 1/4" = 1'



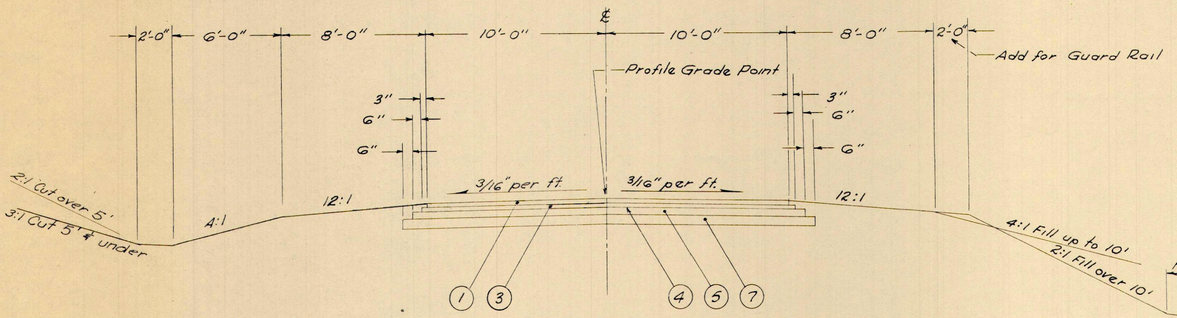
LIMITING STATIONS

S.R. 97: Sta. 7+65.00 to Sta. 9+38.41



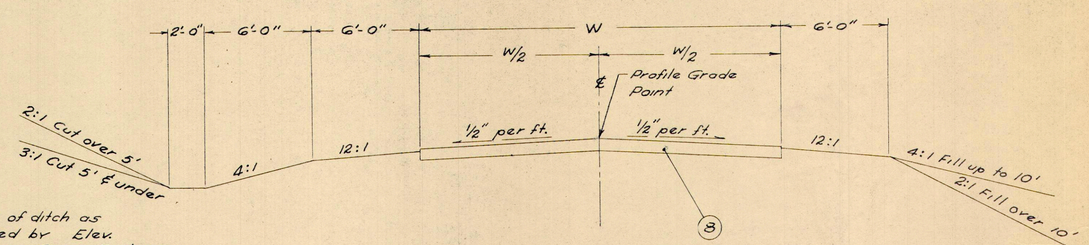
LIMITING STATIONS

C.R. 187	Sta. 10+62.03 to Sta. 12+75.00
Wally Road	Sta. 2+49.44 to Sta. 8+93.77
	Sta. 11+06.23 to Sta. 13+98.00



LIMITING STATIONS

C.R. 114 (Market St.) Sta. 7+74 to Sta. 8+97.63
Sta. 10+80.58 to Sta. 11+55.98
S.R. 39 Sta. 10+72.45 to Sta. 13+50.00
T.R. 259 Apron Sta. 19+47.85 to Sta. 19+90
(Pav't. width varies on T.R. 259 Apron)
Exist. S.R. 3 (North End) Sta. 6+75 to Sta. 9+08.08



LIMITING STATIONS

T.R. 259	Sta. 13+49.41 to Sta. 19+47.85	W=16'
T.R. 5	Sta. 7+50 to Sta. 8+93.77	W=20'
	Sta. 11+06.23 to Sta. 16+19.49	
T.R. 274	Sta. 8+22.00 to Sta. 9+38.00	W=Variable

Notes:

Pavement widths may vary to meet existing pavement throughout terminal transitions as shown on plans.

Reference shall be made to Standard Drawing RI-1 for finishing of shoulders at edges of pavement, for shoulder slopes with super elevation, and for rounding changes of slope.

For Limits of Seeding & Protecting, See General Notes
Pavement slopes for superelevated sections shall be as determined by ℄ and edge of pavement elevations shown on plans.

LEGEND

(1) T-35 1 1/2" Asphaltic Concrete Surface Course - Type A (70-85)

(2) B-35 1 1/2" Asphaltic Concrete Leveling Course (70-85)

(3) B-35 2 1/2" Asphaltic Concrete Leveling Course (70-85)

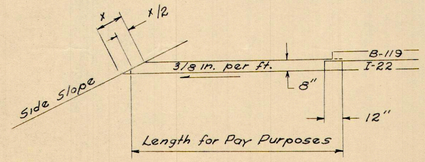
(4) T-30 Bituminous Prime Coat, Sec. M-5.3, MC-0 or MC-1; or Sec. M-5.7, RT-2 or RT-3; applied at the rate of 0.35 gal. per sq. yd.

(5) B-119 5" Crushed Aggregate Base Course

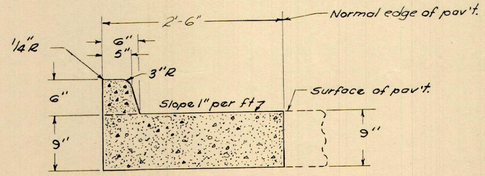
(6) I-22 4" Subbase

(7) I-22 6" Subbase

(8) I-18 8" Stabilized Crushed Aggregate Shoulders and Approaches see note in Proposal for addition stabilization with Calcium Chloride in upper three inches (3") of this item.



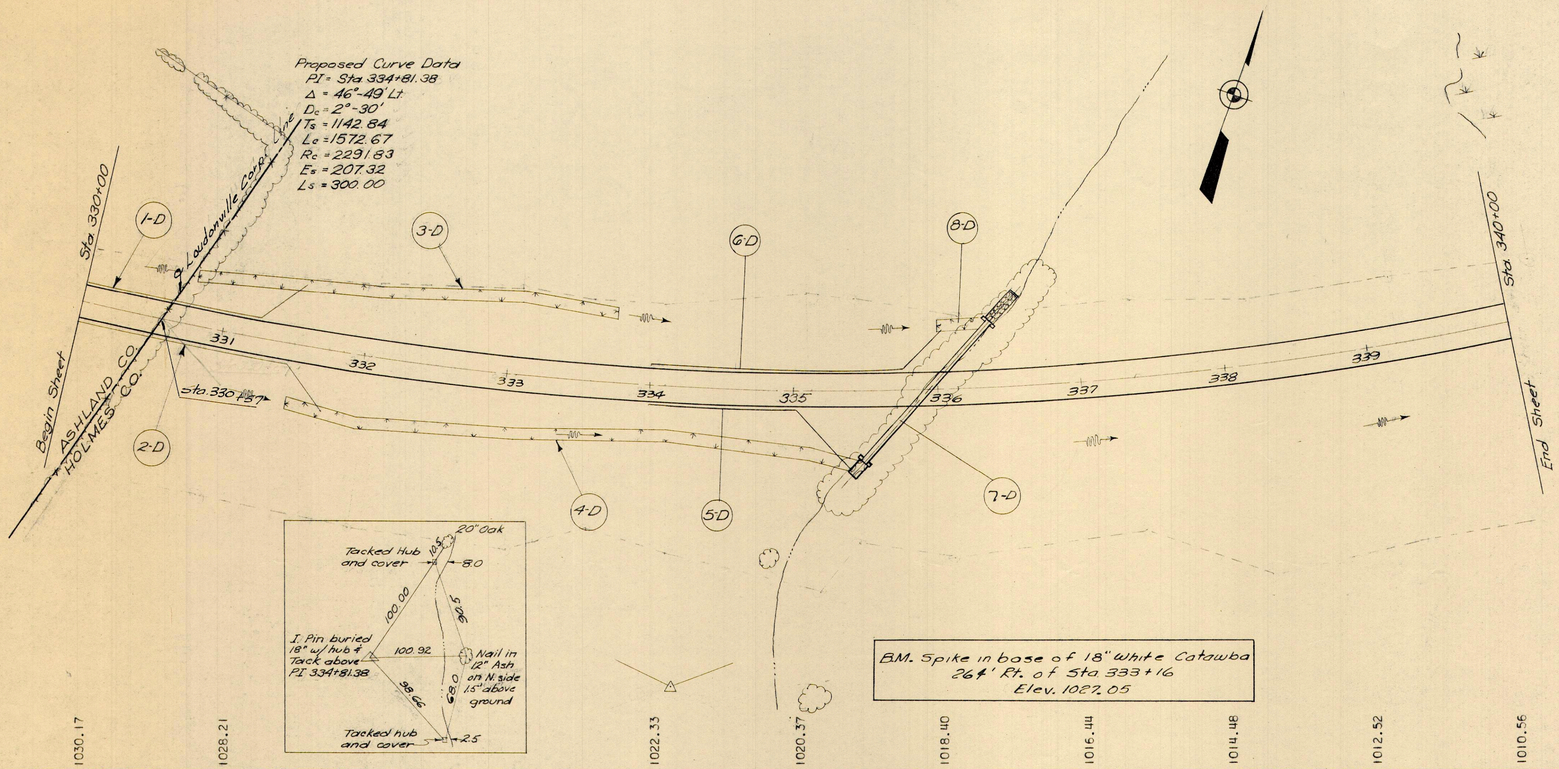
I-9 Stone Underdrains (No. 2)
To be used on all Type T-35 Sections as directed by the Engineer



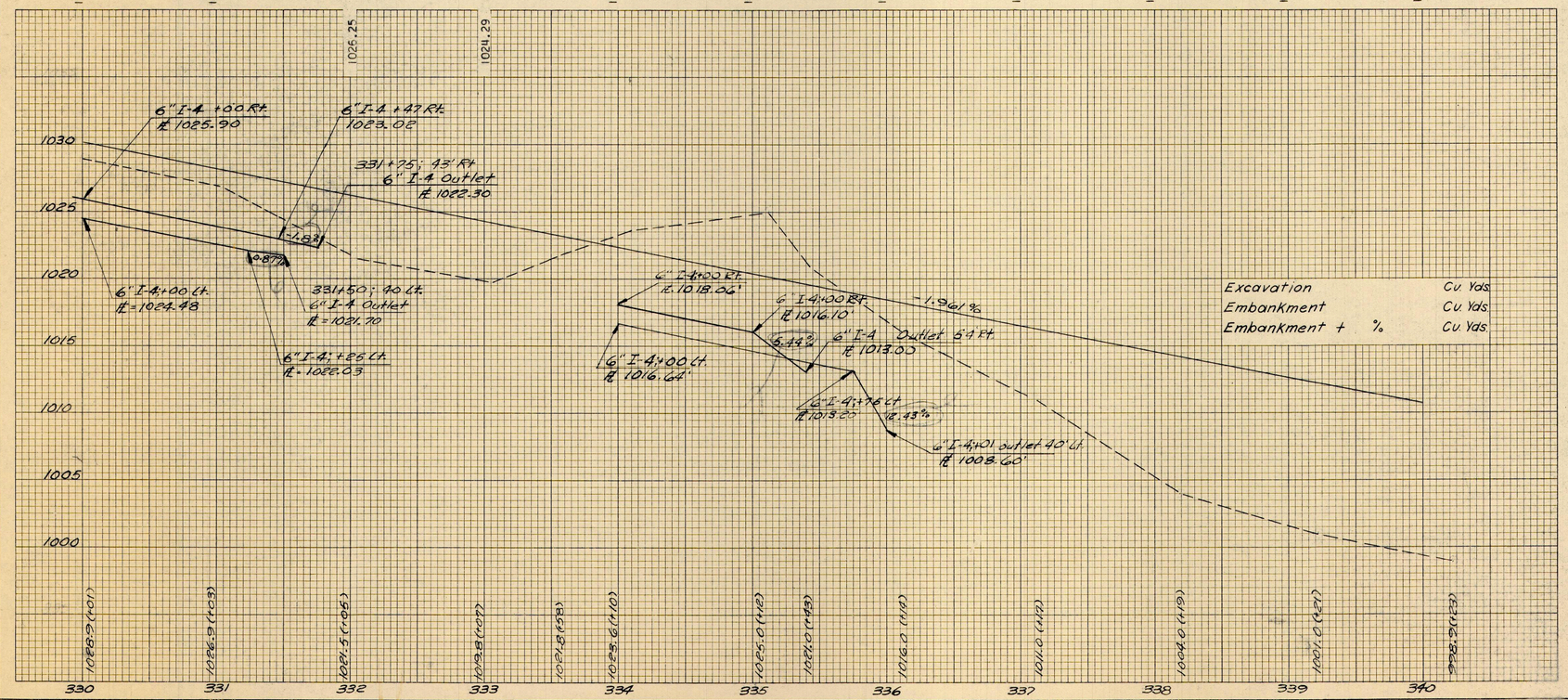
STD TYPE 2
Curb & Gutter
Scale: 1" = 1'-0"

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

Proposed Curve Data
PI = Sta 334+81.38
Δ = 46°-49' Lt
D_c = 2°-30'
T_s = 1142.84
L_c = 1572.67
R_c = 2291.83
E_s = 207.32
L_s = 300.00



B.M. Spike in base of 18" White Catawba
264' Rt. of Sta 333+16
Elev. 1027.05



Excavation	Cu Yds.
Embankment	Cu Yds.
Embankment + %	Cu Yds.

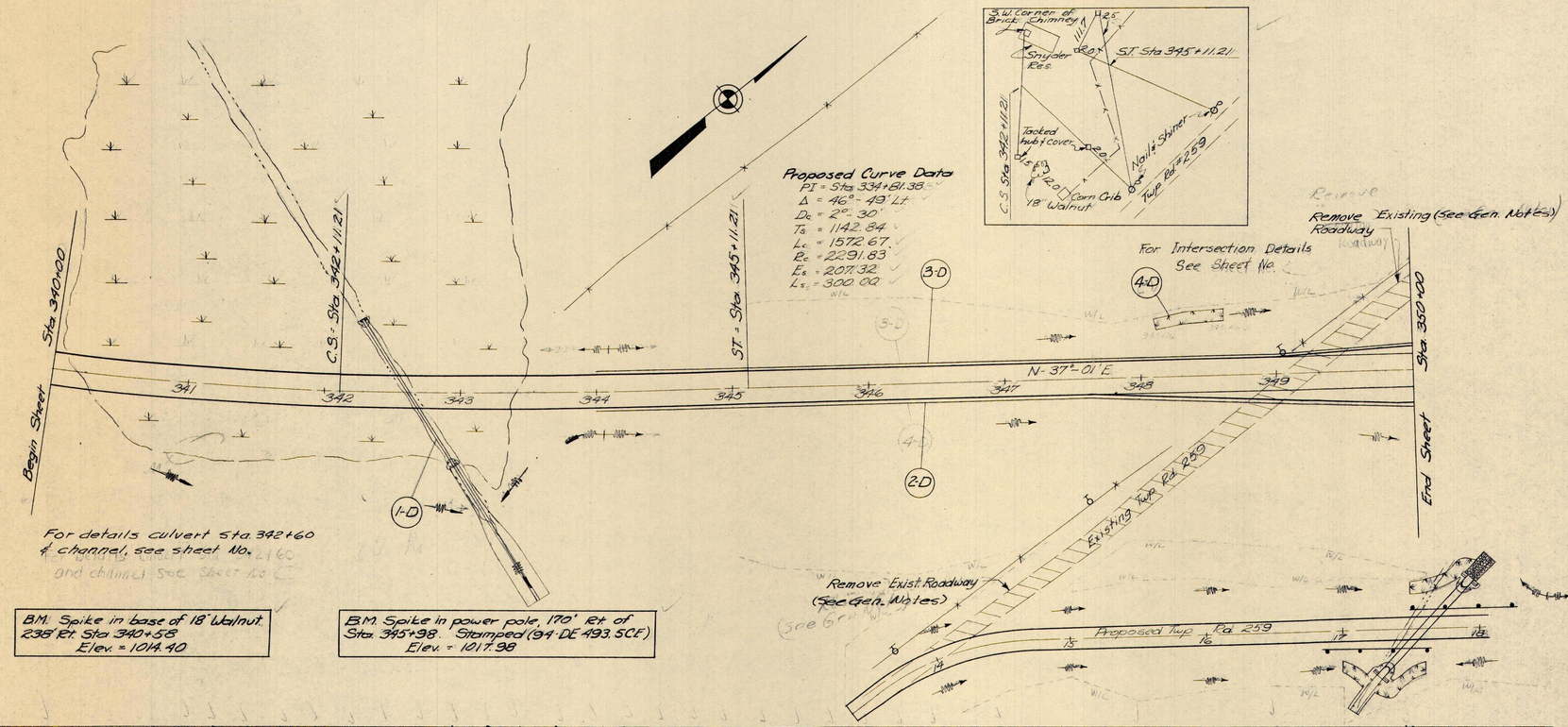
ESTIMATED QUANTITIES

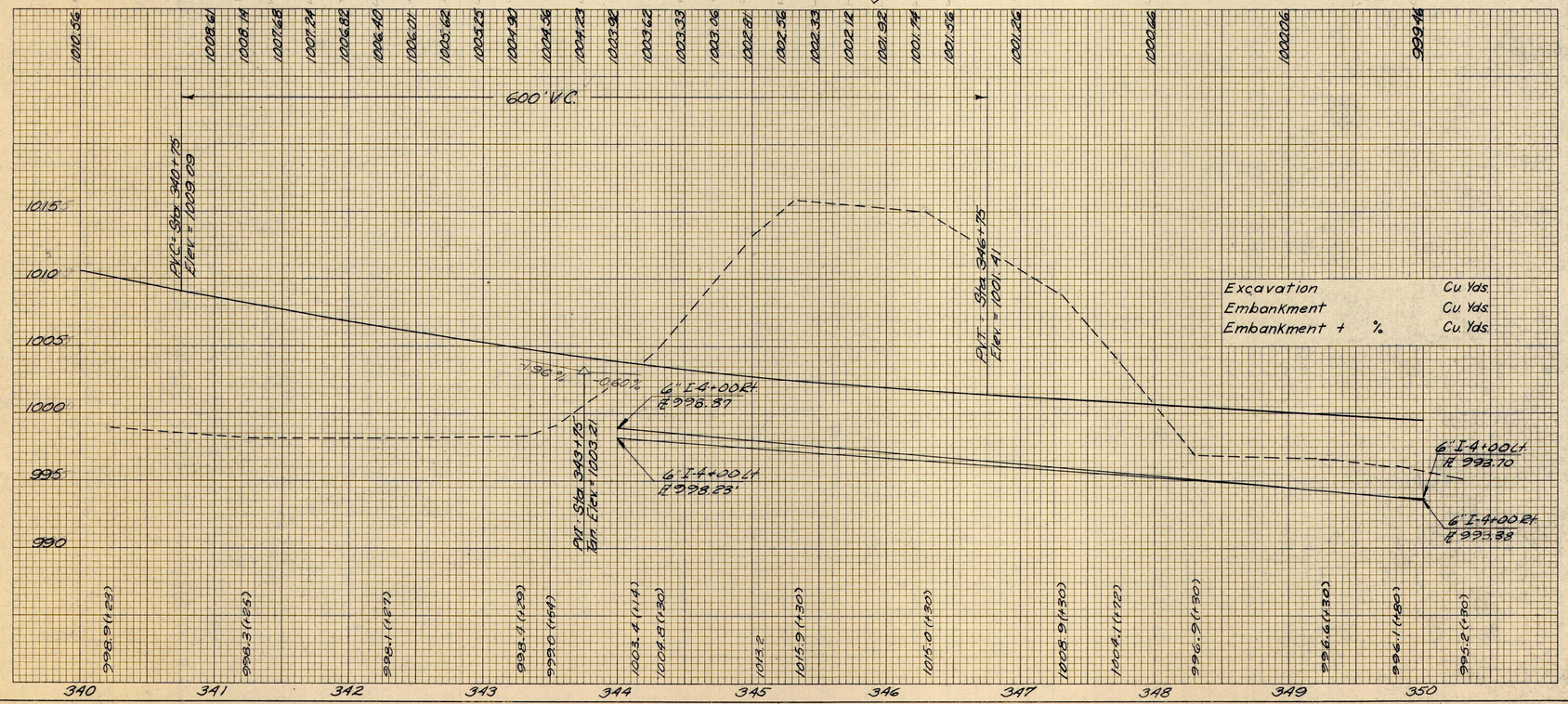
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.	I-5 45° Outlet Bend Each	I-4 6" Outlet Lin. Ft.	I-10 Sta. 330+00 to 340+00 Cu Yds.	E-3 Cu Yds.	E-2 Cu Yds.	S-1 Class C Cu Yds.	S-27 48" CMP(S) 14 Ga. Lin. Ft.	E-10 Tapered Inlet Top Type 1 Cu Yds.	I-10 Packed Chart Part Cu Yds.
1-D	330+00 - 331+50	Lt.			100	10	1					
2-D	330+00 - 331+75	Rt.			100	10	1					
3-D	330+75 - 333+75	Lt.			300	30	1					
4-D	333+50 - 333+42	Rt.			92	9	1					
5-D	334+00 - 335+40	Lt.			140	15	1					
6-D	334+00 - 336+01	Lt.			201	25	1					
7-D	335+54	Lt. & Rt.										
8-D	336+00 - 336+32	Lt.			32	4						
TOTALS					965	103	6					

STATION 330+00 to 340+00

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		





Excavation	Cu Yds.
Embankment	Cu Yds.
Embankment + %	Cu Yds.

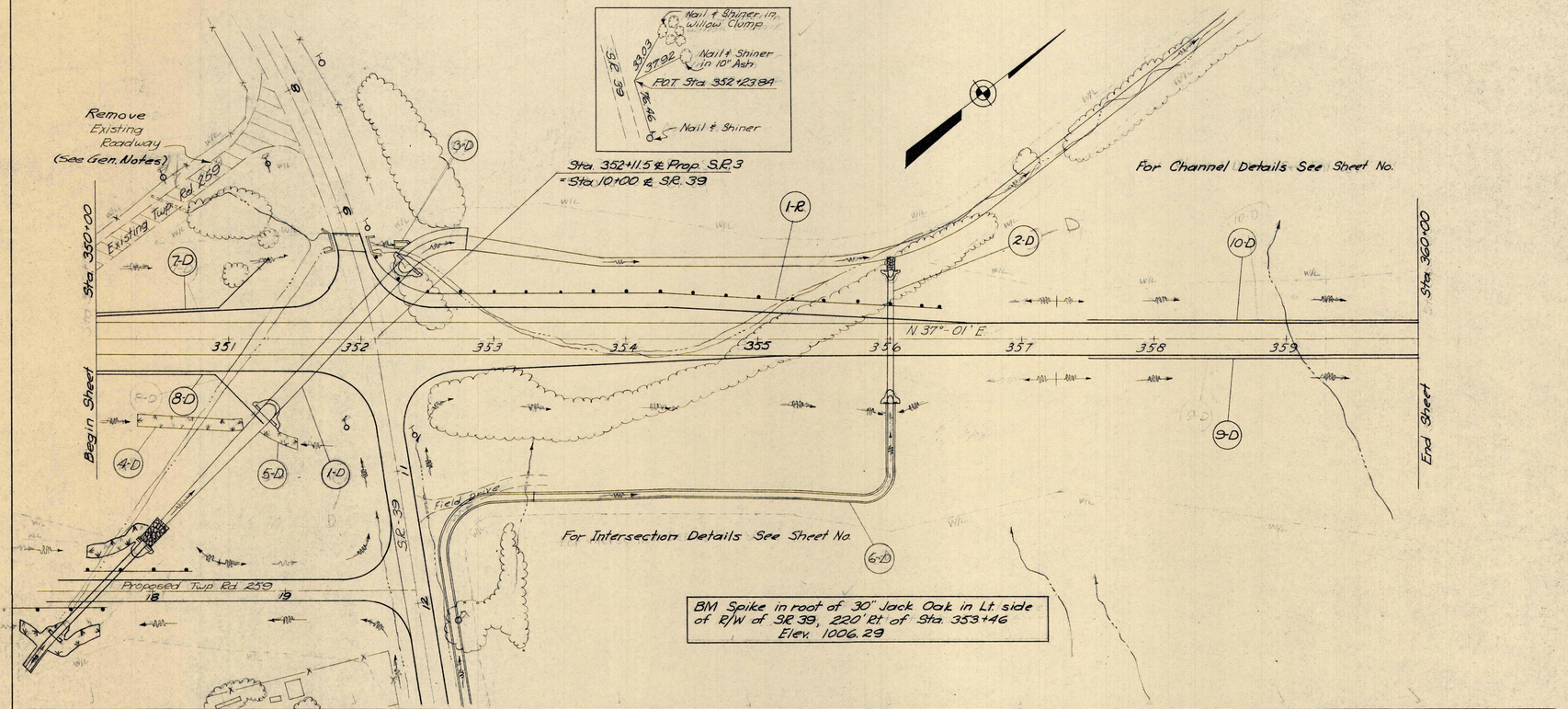
ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	S-21 Mfd. Conc. Curb & Gutter (6) M-8.1 (6) Lin. Ft.	S-1 Conc. Curb & Gutter Lin. Ft.	I-4 6" Lin. Ft.	L-10 Sq. Yds.	E-2 Cu. Yds.	E-3 Cu. Yds.	SEE SHEET NO.
1-D	341+60	LT&RT	120	0.8	0	3	32	1	
2-D	344+00 - 350+00	Lt.			600				
3-D	344+00 - 350+00	Rt.			600				
4-D	348+10 - 348+60	Lt.				50			
TOTALS			120	0.8	600	53	32	1	

STATION 340+00 to 350+00

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



ESTIMATED QUANTITIES

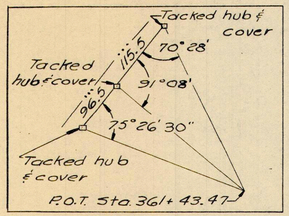
REF. NO.	STATION TO STATION	SIDE	I-15 Dumped Rock & Gravel Channel Lining Cu. Yds.	I-10 Riprap Grouted Cu. Yds.	I-14 Type 1 L.in.Ft.	S-27 C28"x106"(M-206.6) 10'-8"x6'-11" (M-206.4) 10' Bevel L.in.Ft.	S-27 48" L.in.Ft.	I-4 6" Outlet and Cut-off Each	I-5 6" Cut-off Each	SEE SHEET NO.
1-R	350+09 - 356+36	Lt.	475							
1-D	351+81	Lt & Rt.		6						
2-D	356+00	Lt & Rt.		90						
3-D	352+25 - 352+35	Lt.			15					
4-D	350+30 - 351+10	Rt.			80					
5-D	351+25 - 351+30	Rt.			5					
6-D	353+30 - 356+00*	Rt.			334					
7-D	350+00 - 351+30	Lt.				135		1	1	
8-D	350+00 - 351+25	Rt.				130		1	1	
9-D	357+50 - 360+00	Rt.				255				
10-D	357+30 - 360+00	Lt.				255				
TOTALS			475	96	434	775	100	2	2	

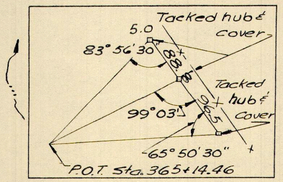
* Quantities for remainder of this Paved Gutter is carried on S.R. 39 Line Sheet.

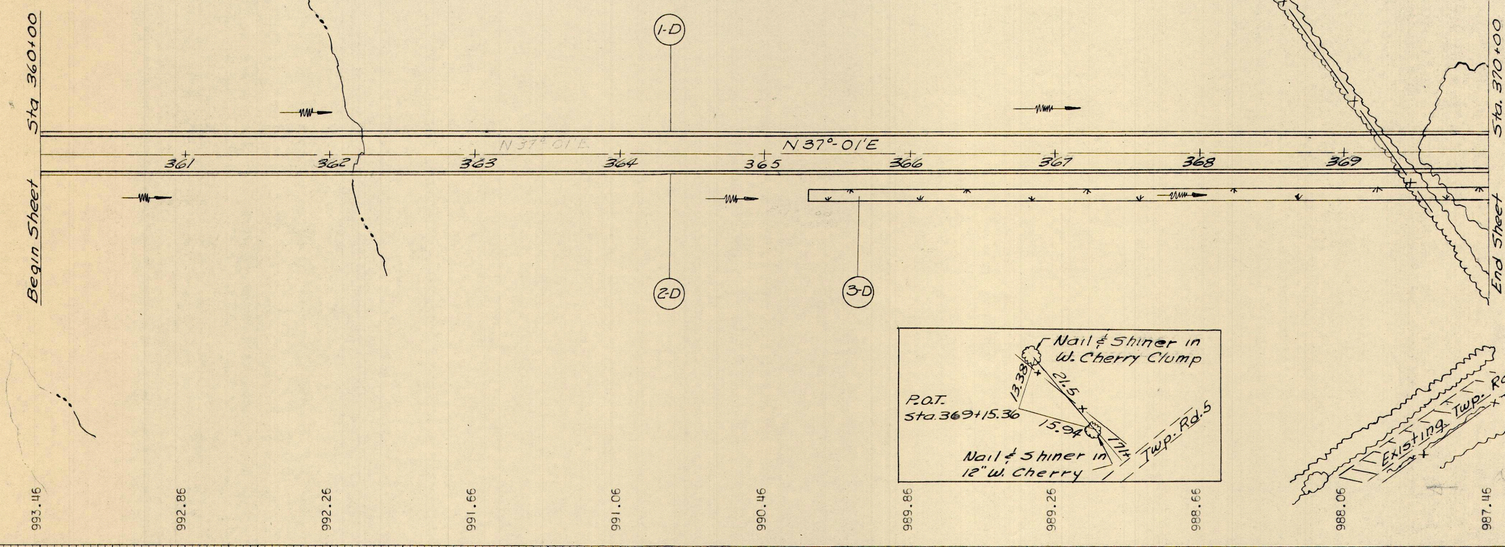
STATION 350+00 to 360+00

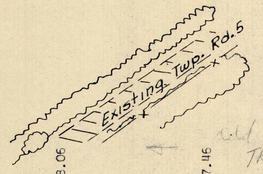
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

AED-S-2.79
HOL-3-8.00

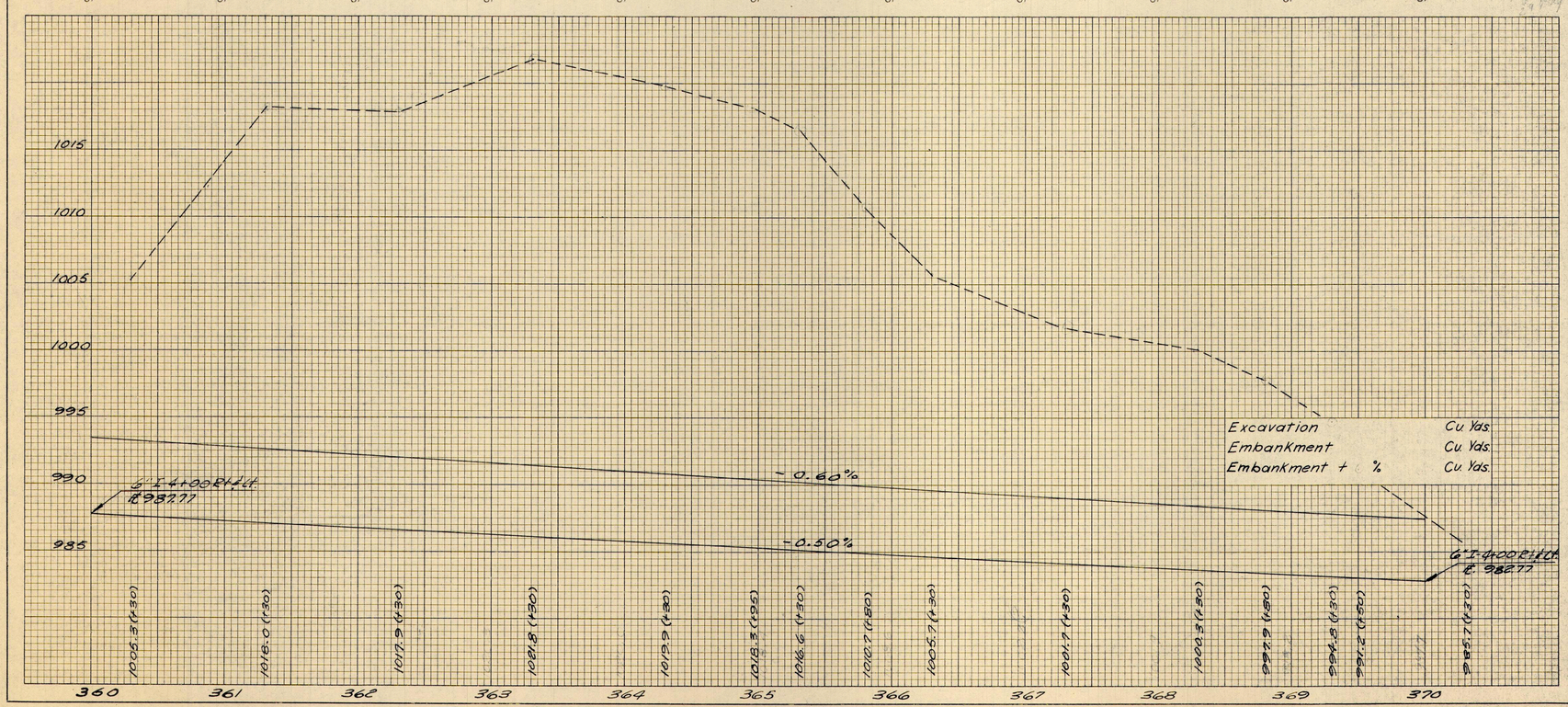








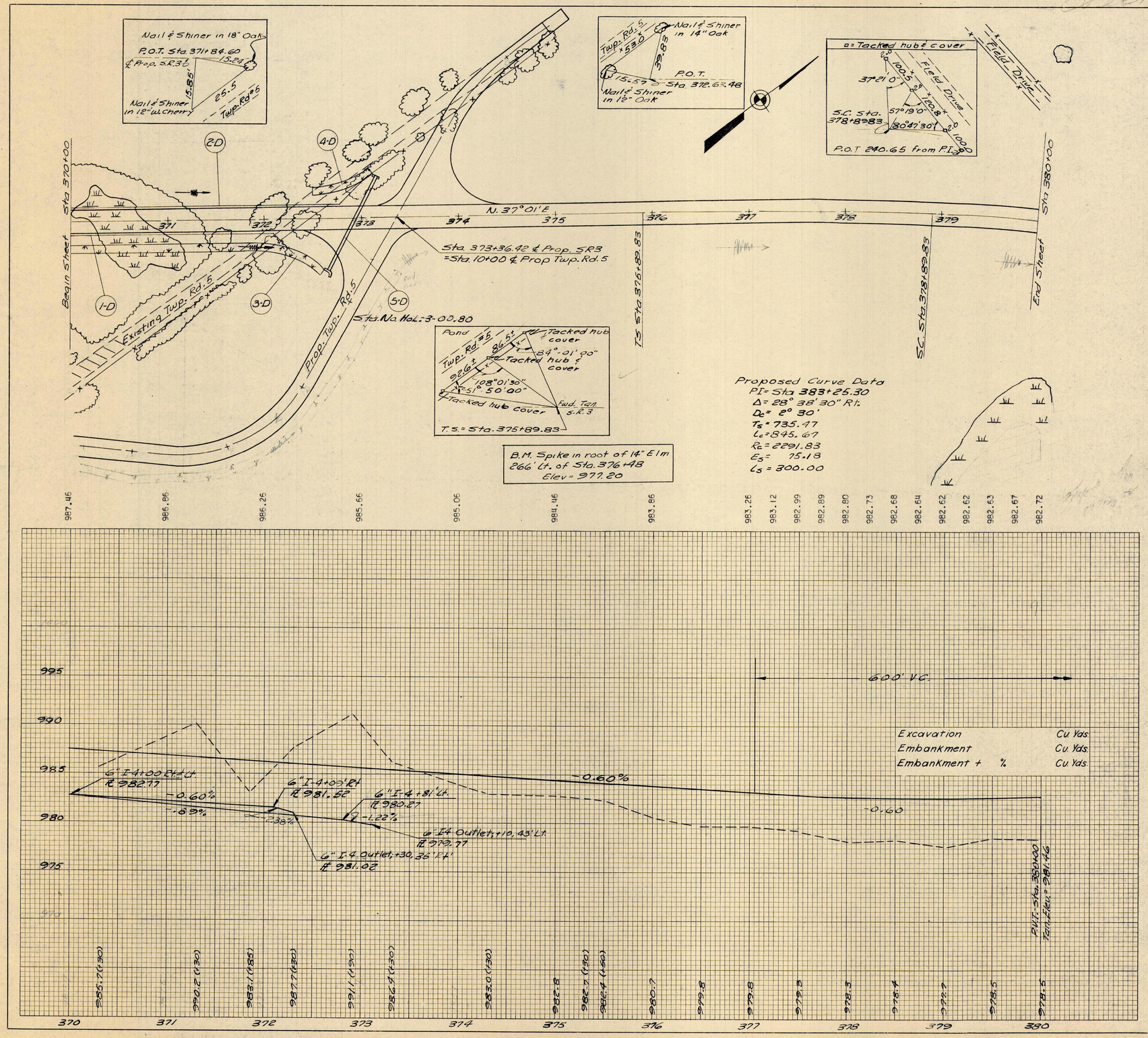
993.46
992.86
992.26
991.66
991.06
990.46
989.86
989.26
988.66
988.06
987.46



ESTIMATED QUANTITIES

| REF. NO. | STATION TO STATION | SIDE | I-4 6" | L.O. Ft. Sq. Yds. | L-0 | | |

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	S-27 36" Lin. Ft.	S-4 Lbs.	L-10 Sq. Yds.	E-2 Cu. Yds.	E-3 Cu. Yds.	S-1 Class "E" Cu. Yds.	S-1 Class "C" Cu. Yds.	I-4 6" Lin. Ft.	I-4 6" Outlet Lin. Ft.	I-5 6" 45° Bend Each
1-D	370+00 - 372+30	Rt.								226	10	1
2-D	370+00 - 373+10	Lt.								308	10	1
3-D		Rt.										
4-D		Lt.										
5-D	372+94	Lt. & Rt.	110	53	18	159		.59	3.5			
TOTALS			110	53	18	159		.59	3.5	534	20	2

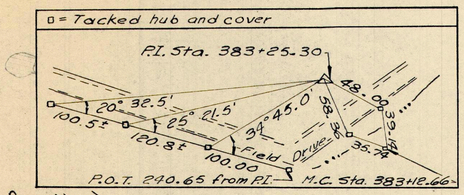
SEE SHEET NO.

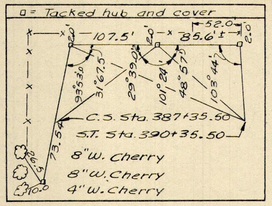
STATION 370+00 to 380+00

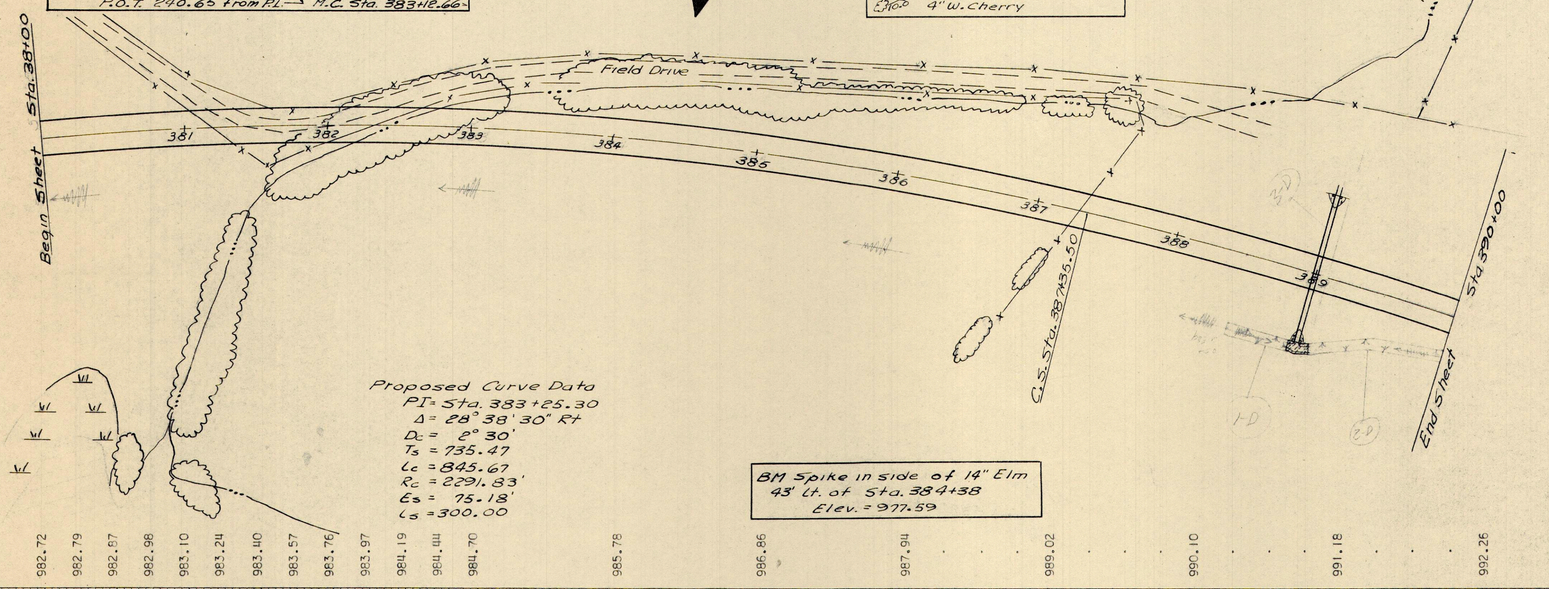
ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

□ = Tacked hub and cover



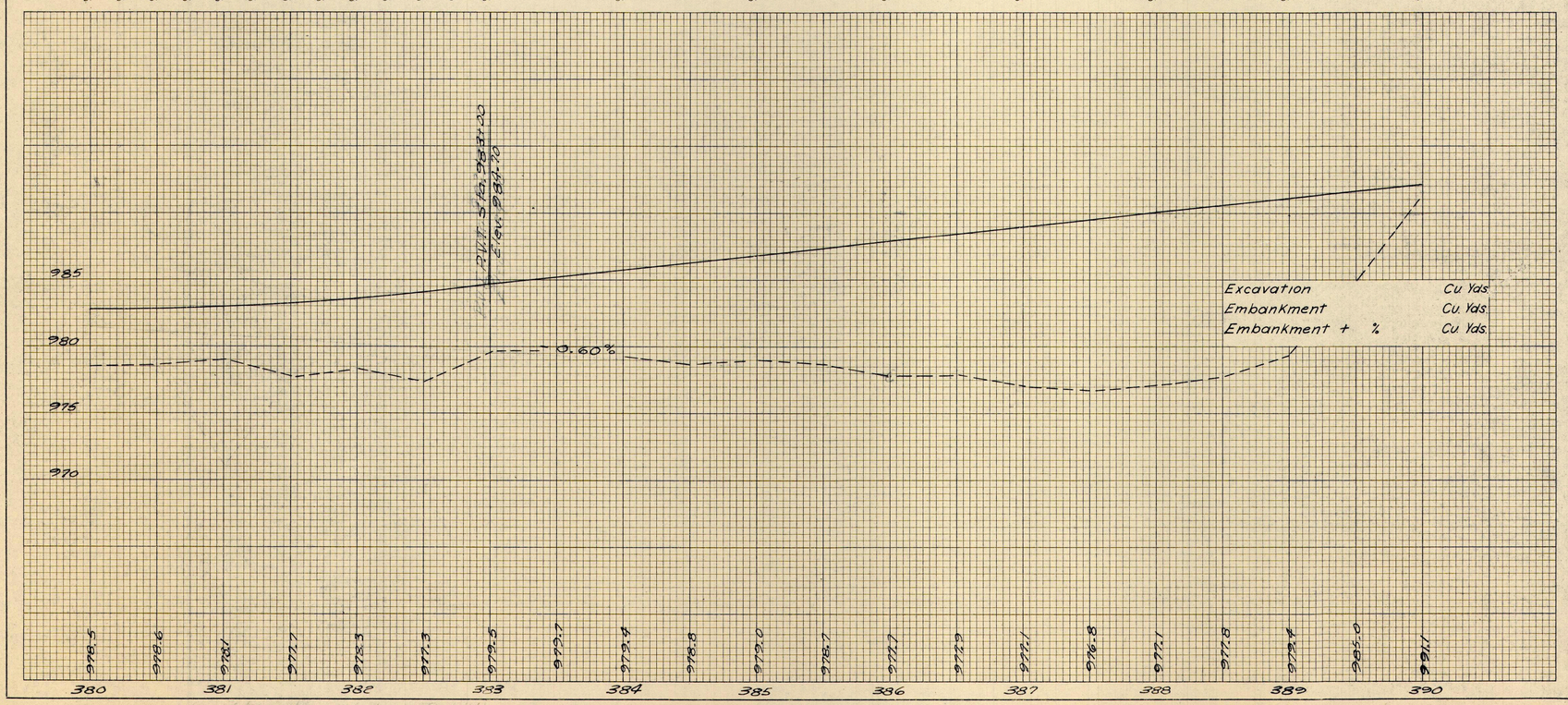




Proposed Curve Data
PI = Sta. 383+25.30
Δ = 28° 38' 30" Rt
D_c = 2° 30'
T_s = 735.47
L_c = 845.67
R_c = 2291.83'
E_s = 75.18'
L_s = 300.00

BM Spike in side of 14" Elm
43' Lt. of Sta. 384+38
Elev. = 977.59

982.72 982.79 982.67 982.98 983.10 983.24 983.40 983.57 983.76 983.97 984.19 984.36 984.70 985.78 986.86 987.94 989.02 990.10 991.18 992.26



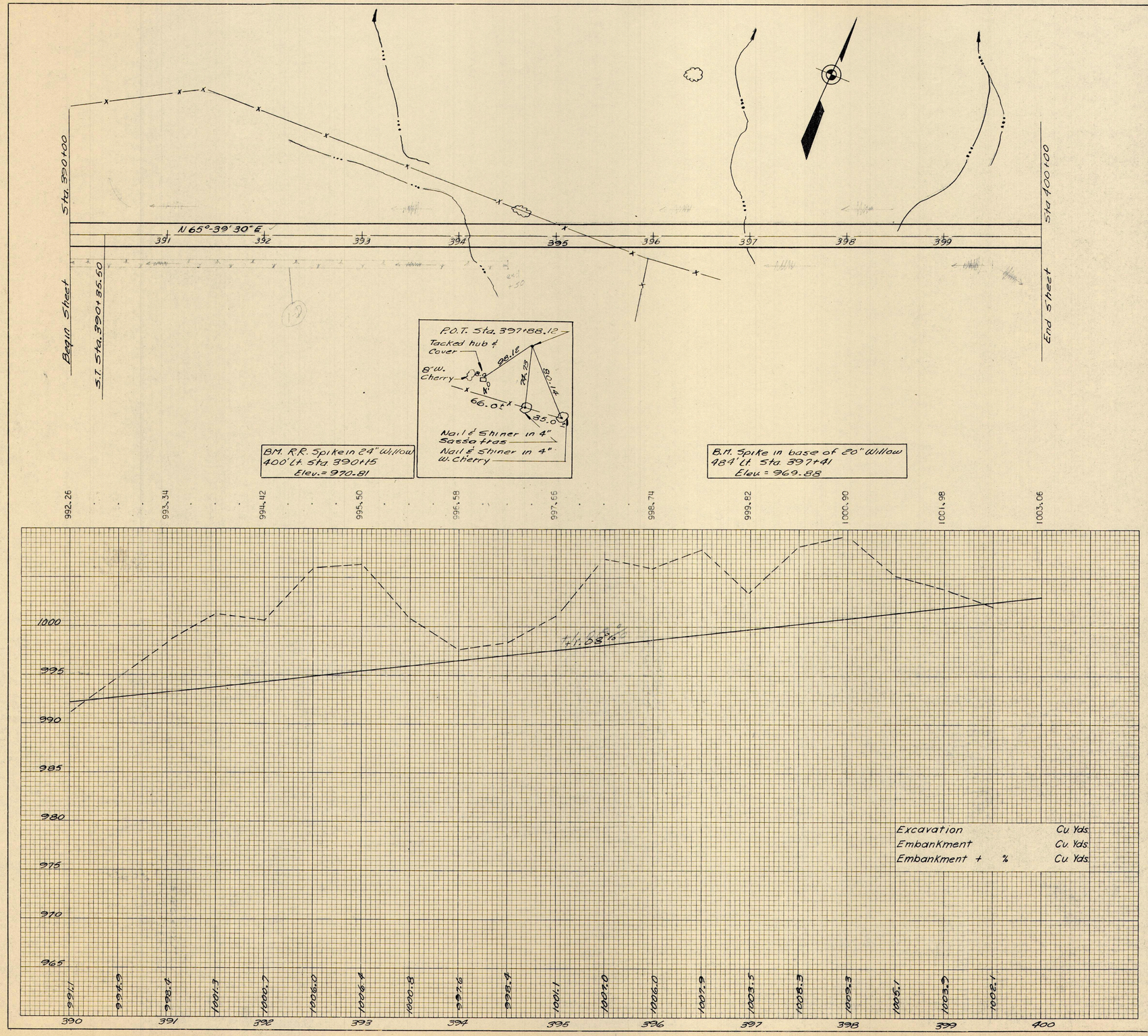
Excavation	Cu Yds.
Embankment	Cu. Yds.
Embankment + %	Cu. Yds.

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	



ESTIMATED QUANTITIES

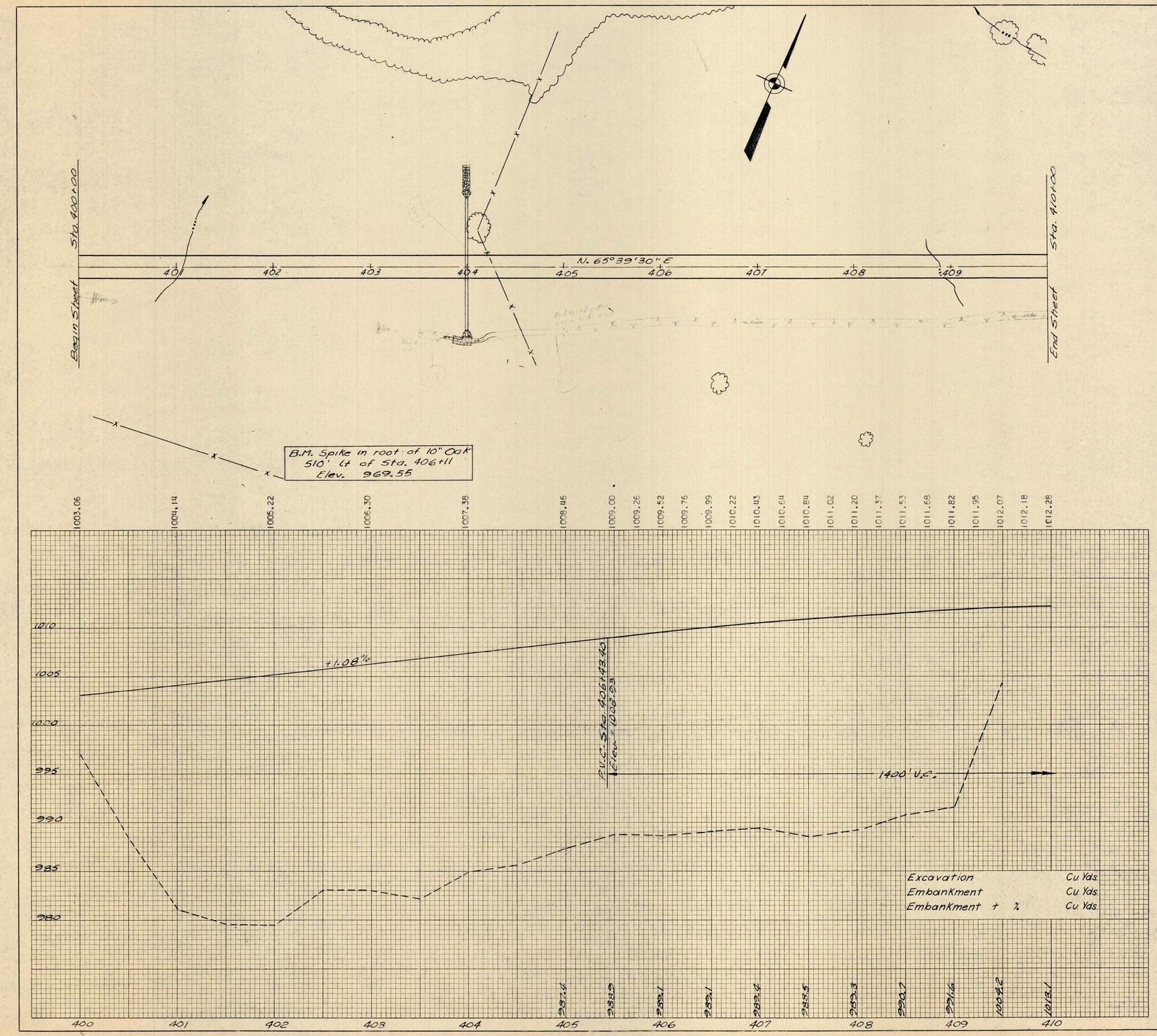
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.
L-D	390+00 to 394+50	Rt	450
		L-10	

TOTALS

STATION 390+00 to 400+00

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	



ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	L-70 Sudbury	I-15 Mitchell Point Gate Lane
1-D	403+50 to 403+86	Rt	36	
2-D	404+05 to 410+00	Rt	500	95

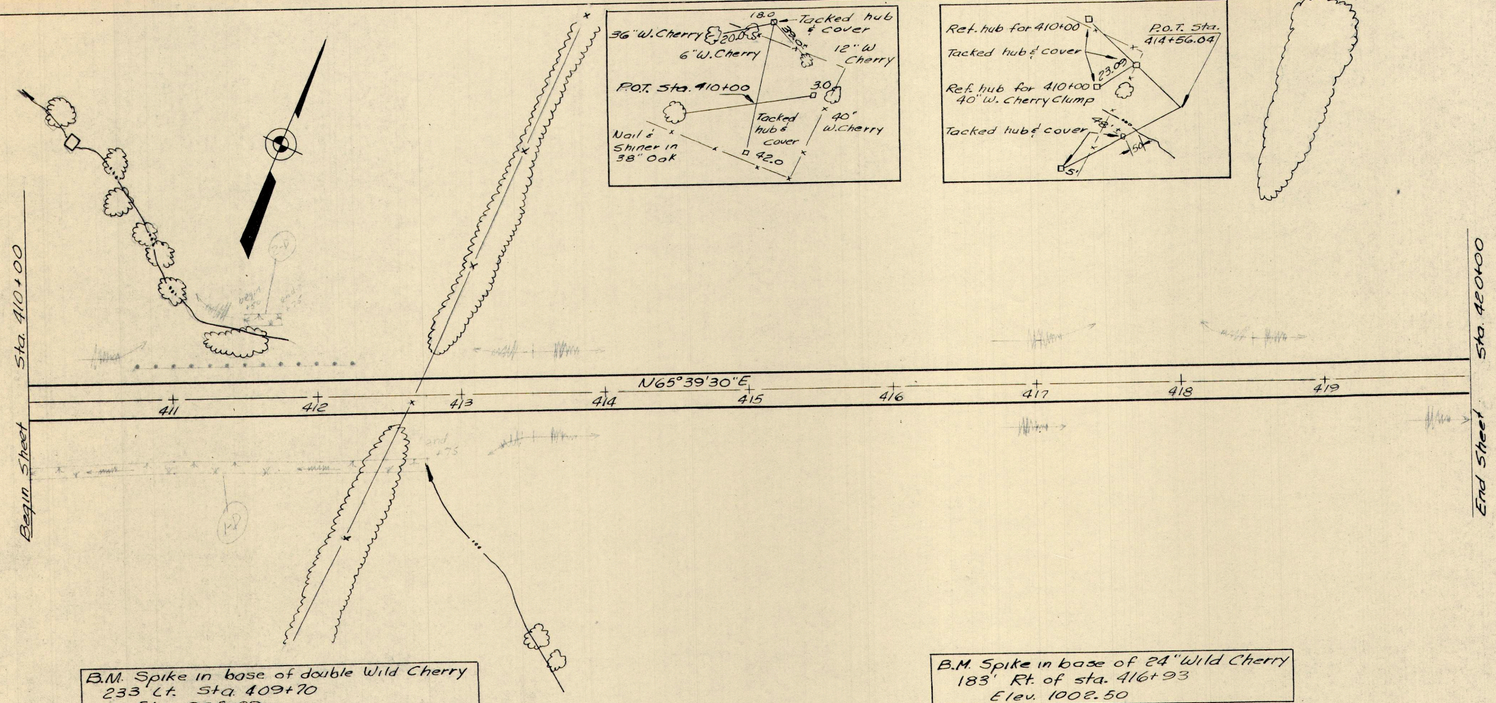
SEE SHEET NO.

TOTALS

STATION 400+00 to 410+00

ASD-3-2.70
HOL-3-0.00

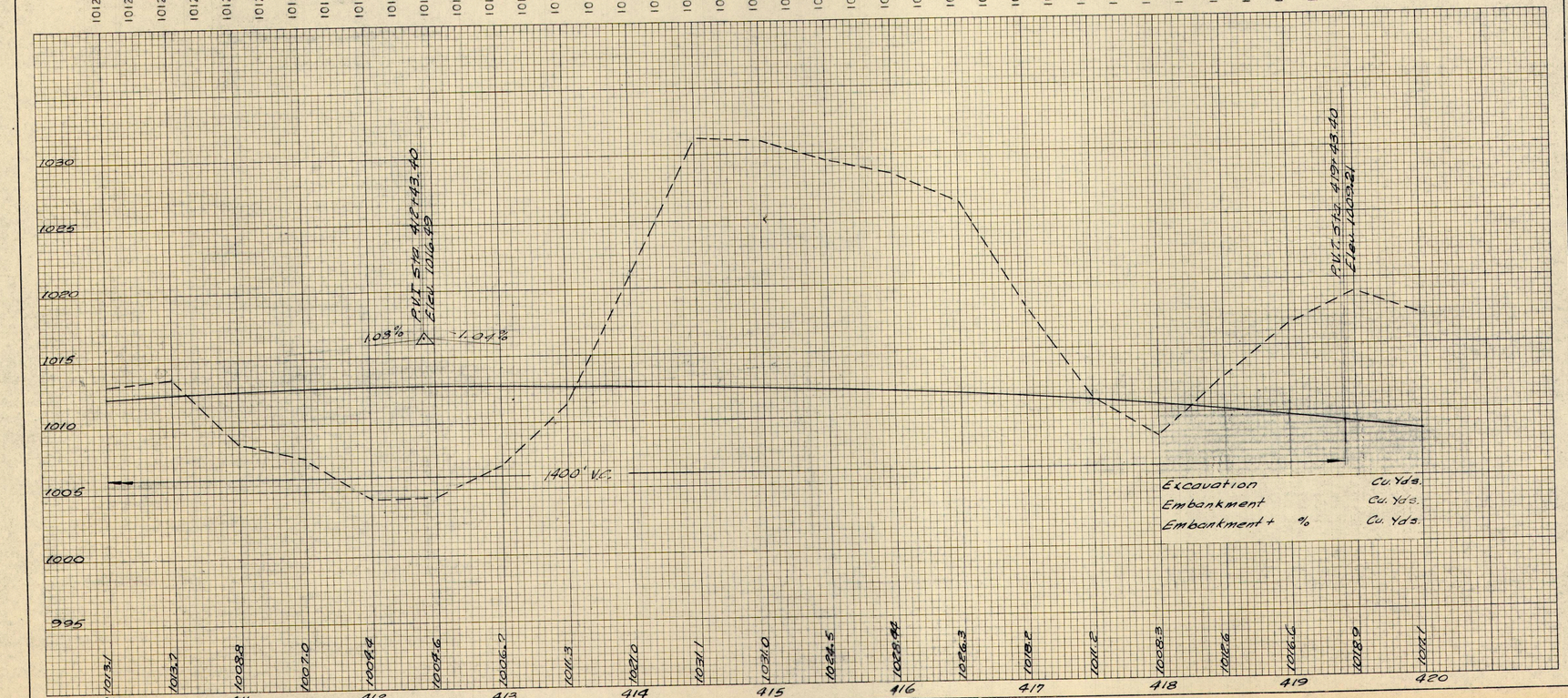
FED. HD. DIVISION	STATE	PROJECT	
2	OHIO		



B.M. Spike in base of double Wild Cherry
233' Lt. Sta 409+70
Elev. 985.89

B.M. Spike in base of 24" Wild Cherry
183' Rt. of sta. 416+93
Elev. 1002.50

1012.28 1012.37 1012.46 1012.53 1012.59 1012.65 1012.69 1012.73 1012.76 1012.77 1012.78 1012.78 1012.77 1012.74 1012.71 1012.67 1012.62 1012.57 1012.50 1012.42 1012.33 1012.23 1012.13 1012.01 1011.89 1011.75 1011.61 1011.45 1011.29 1011.12 1010.94 1010.75 1010.54 1010.33 1010.11 1009.88 1009.65 1009.40 1009.14 1008.62



Excavation Cu. Yds.
Embankment Cu. Yds.
Embankment + % Cu. Yds.

ESTIMATED QUANTITIES

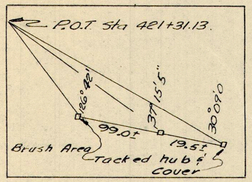
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.

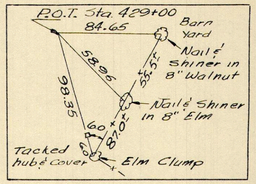
TOTALS

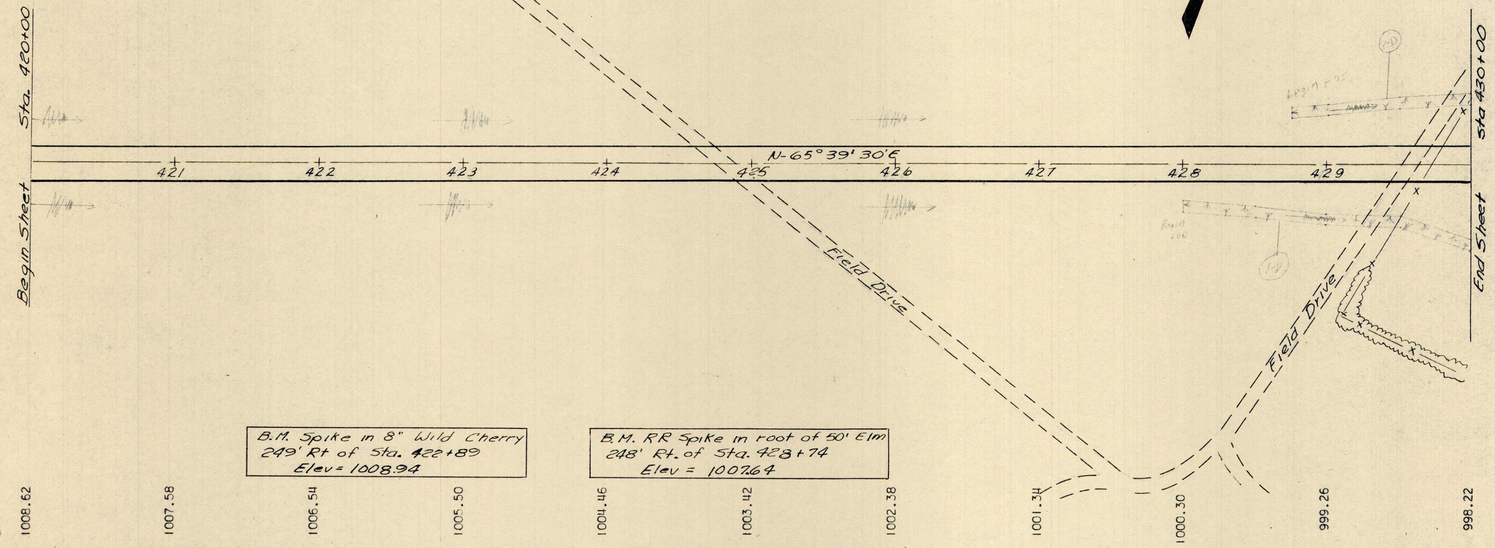
STATION 410+00 to 420+00

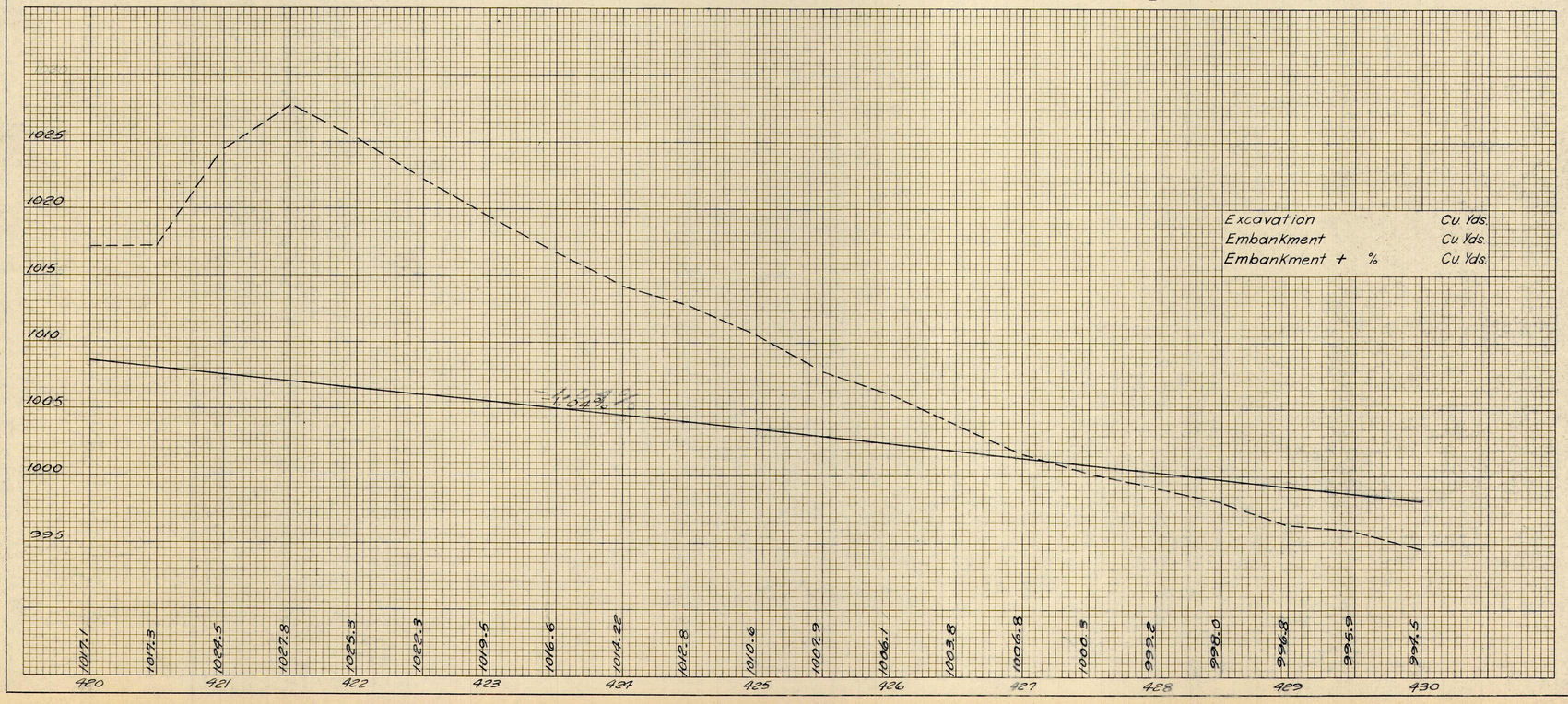
ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		









ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.
L-10			
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
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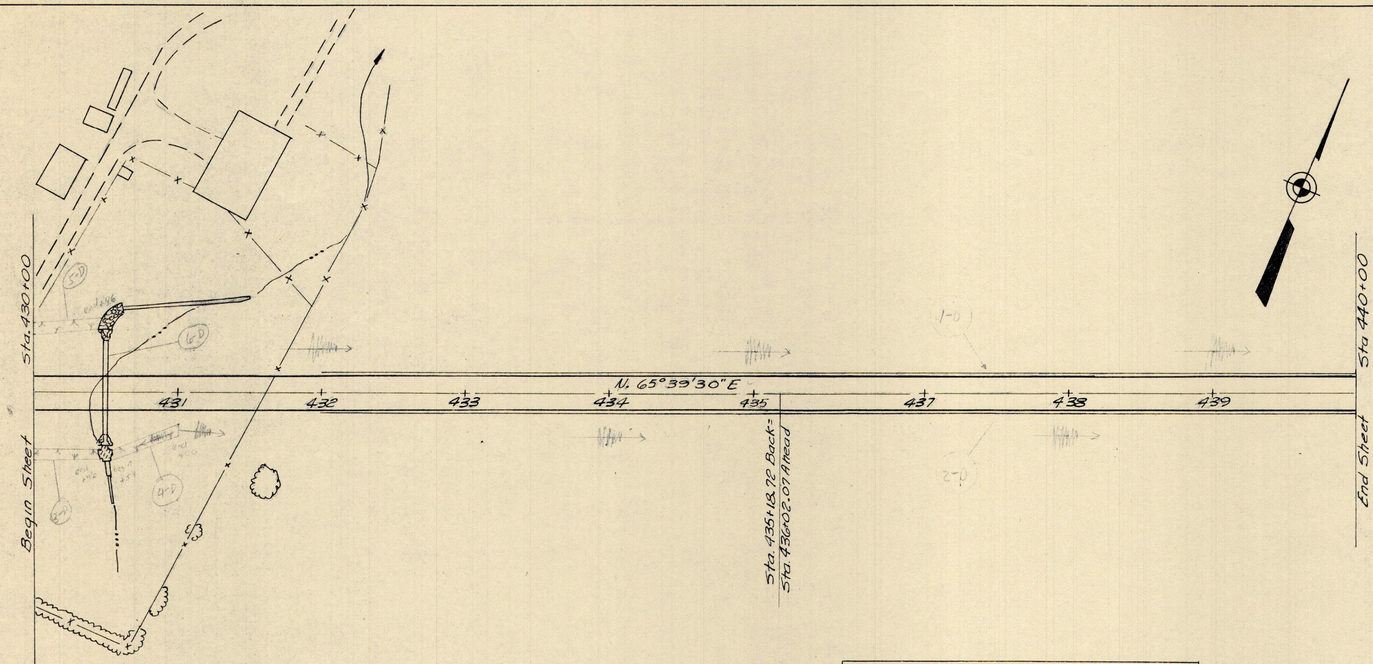
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
TOTALS			

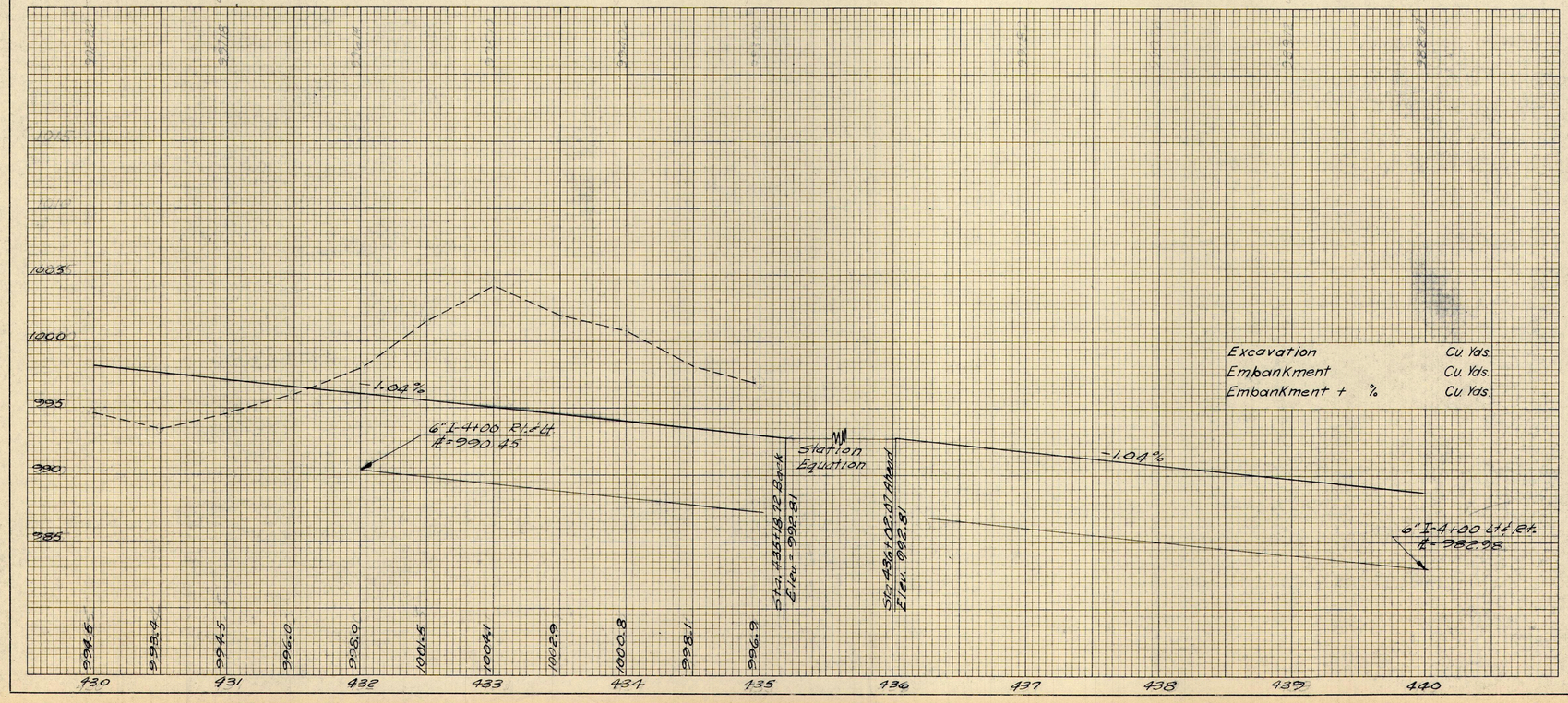
STATION 420+00 to 430+00

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



B.M. □ Cut on N.E. wing of R.R. Bridge
574' Lt. of Sta. 433+09
Elev. 965.88



Excavation	Cu Yds.
Embankment	Cu Yds.
Embankment + %	Cu Yds.

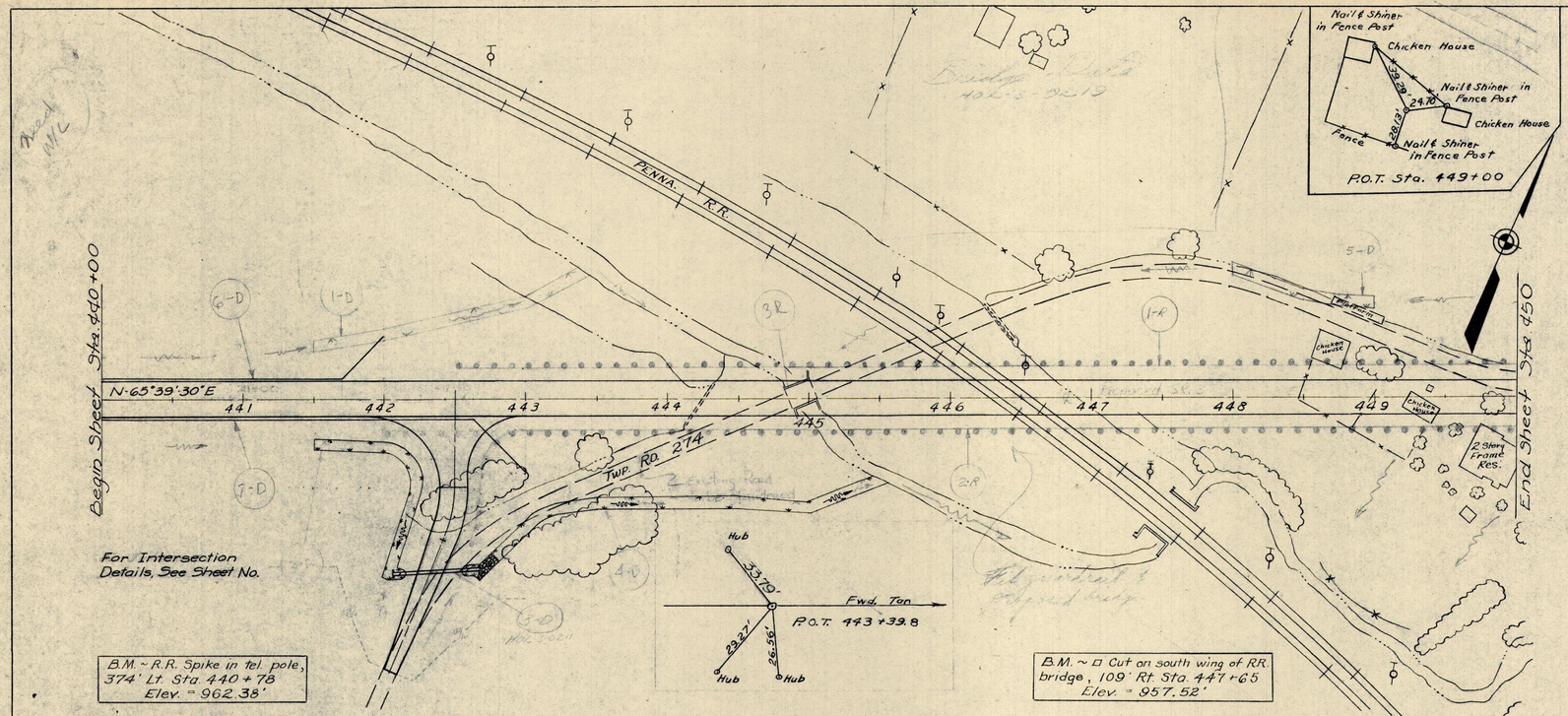
ESTIMATED QUANTITIES

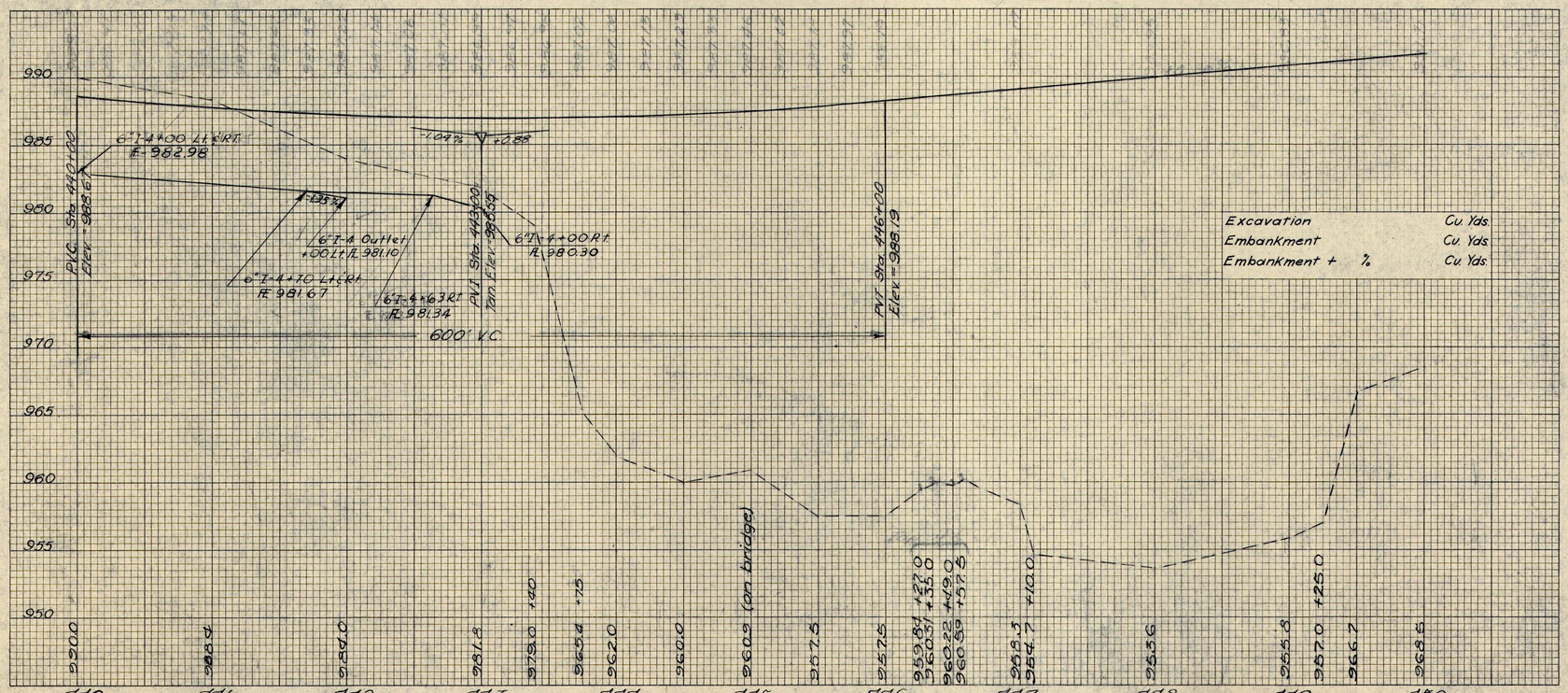
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.
TOTALS			

STATION 430+00 to 440+00

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		





Excavation	Cu Yds.
Embankment	Cu Yds.
Embankment + %	Cu Yds.

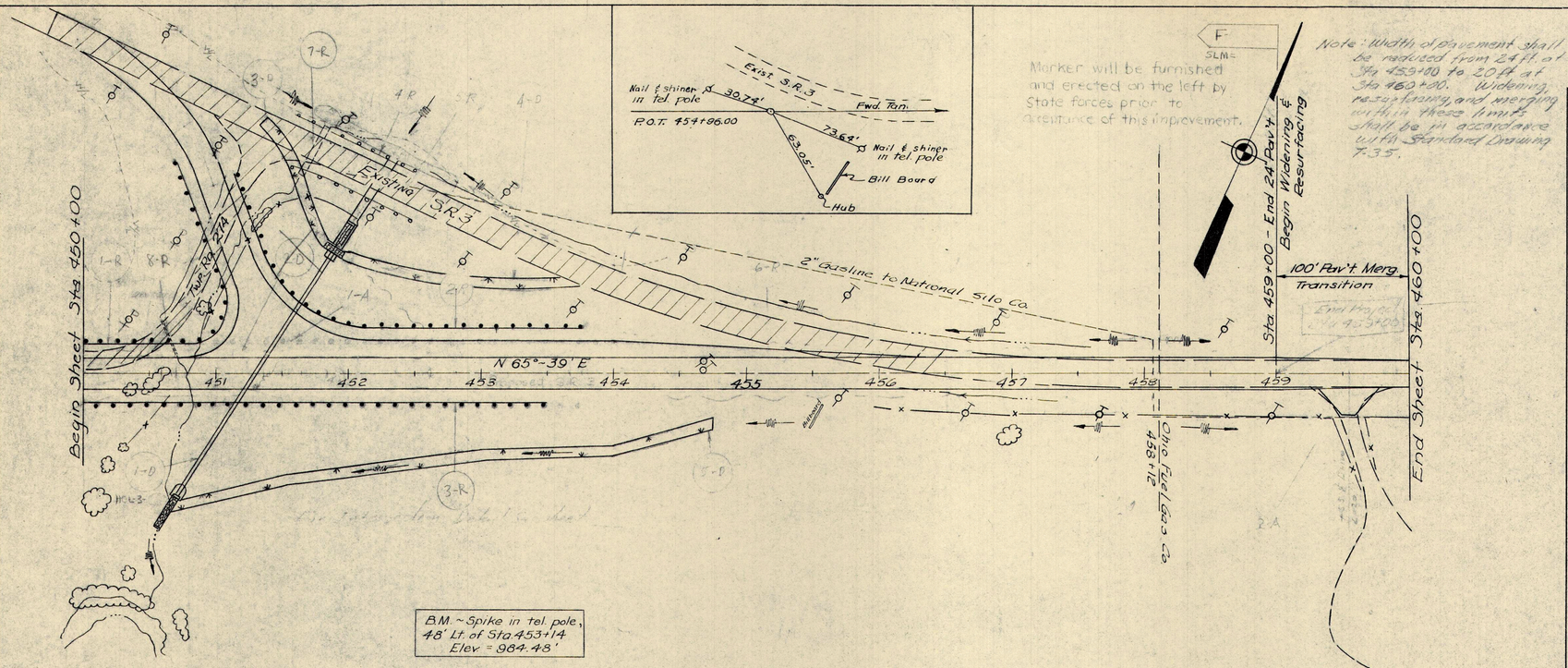
ESTIMATED QUANTITIES

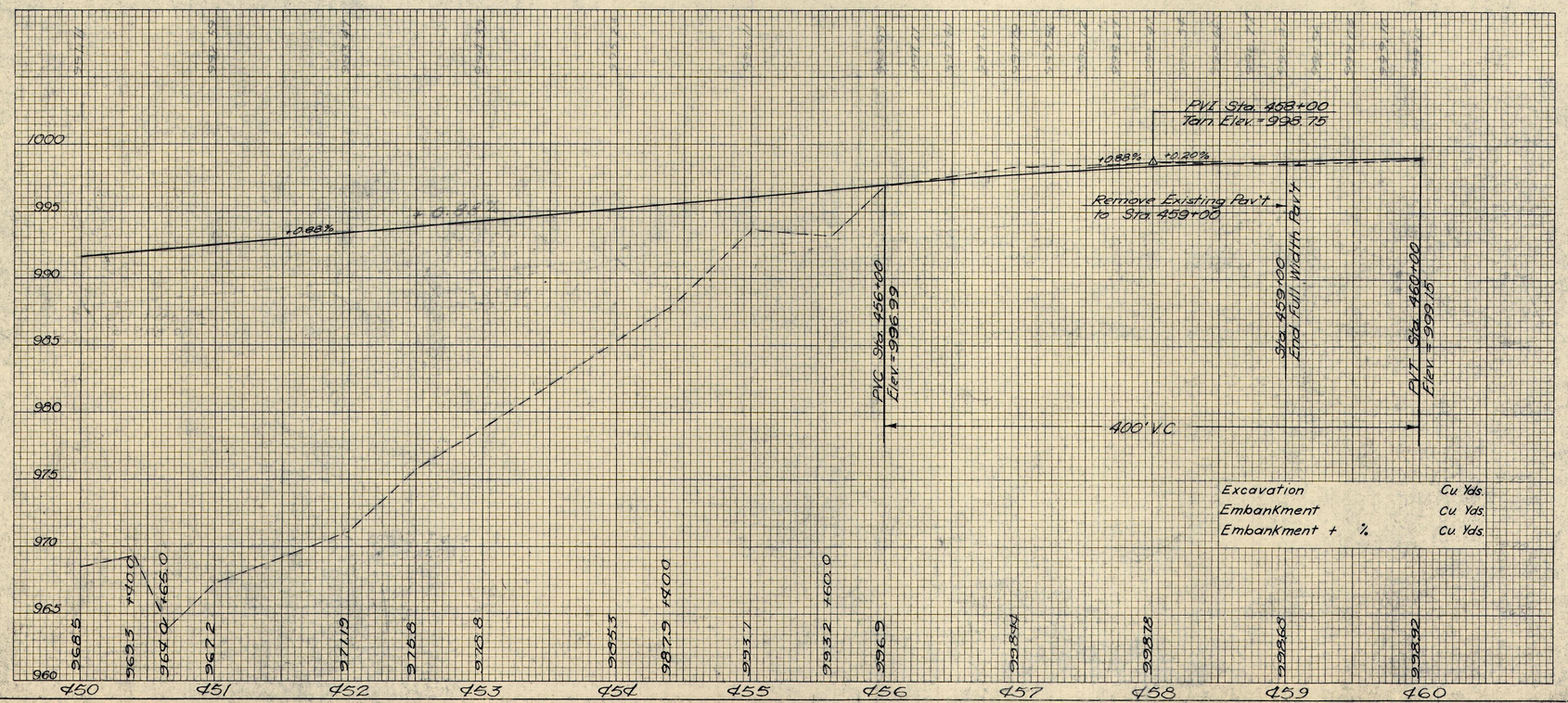
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.	TOTALS
1-D	Excavation	Lt	7-10	9,200
2-D	Embankment	Lt		1,200
3-D	Excavation	Rt		1,200
4-D	Embankment	Rt		22
5-D	Excavation	Lt		22
6-D	Embankment	Lt		1,200
7-D	Excavation	Rt		1,200

STATION 440+00 to 450+00

ASD-3-270
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		





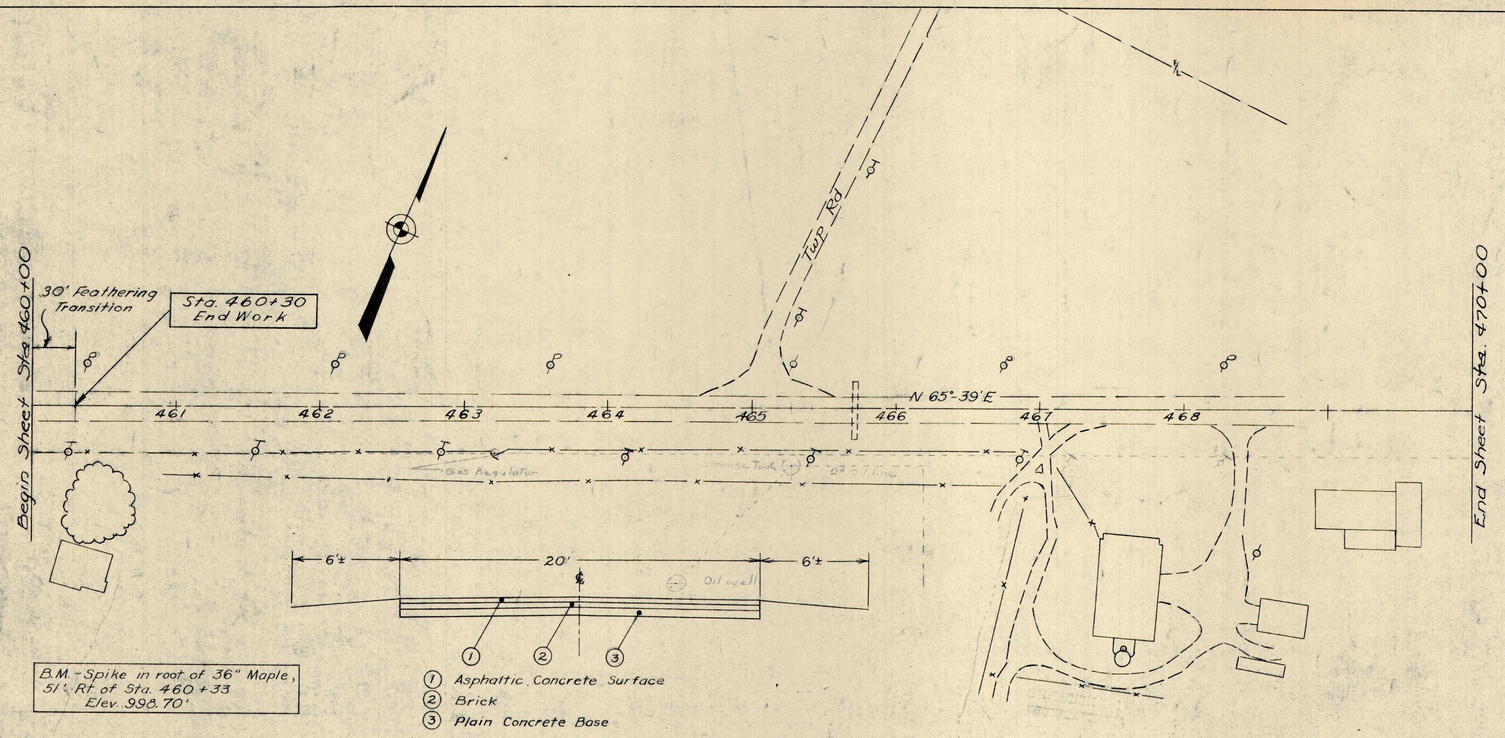
Excavation	Cu Yds.
Embankment	Cu Yds.
Embankment + ¼	Cu Yds.

ESTIMATED QUANTITIES

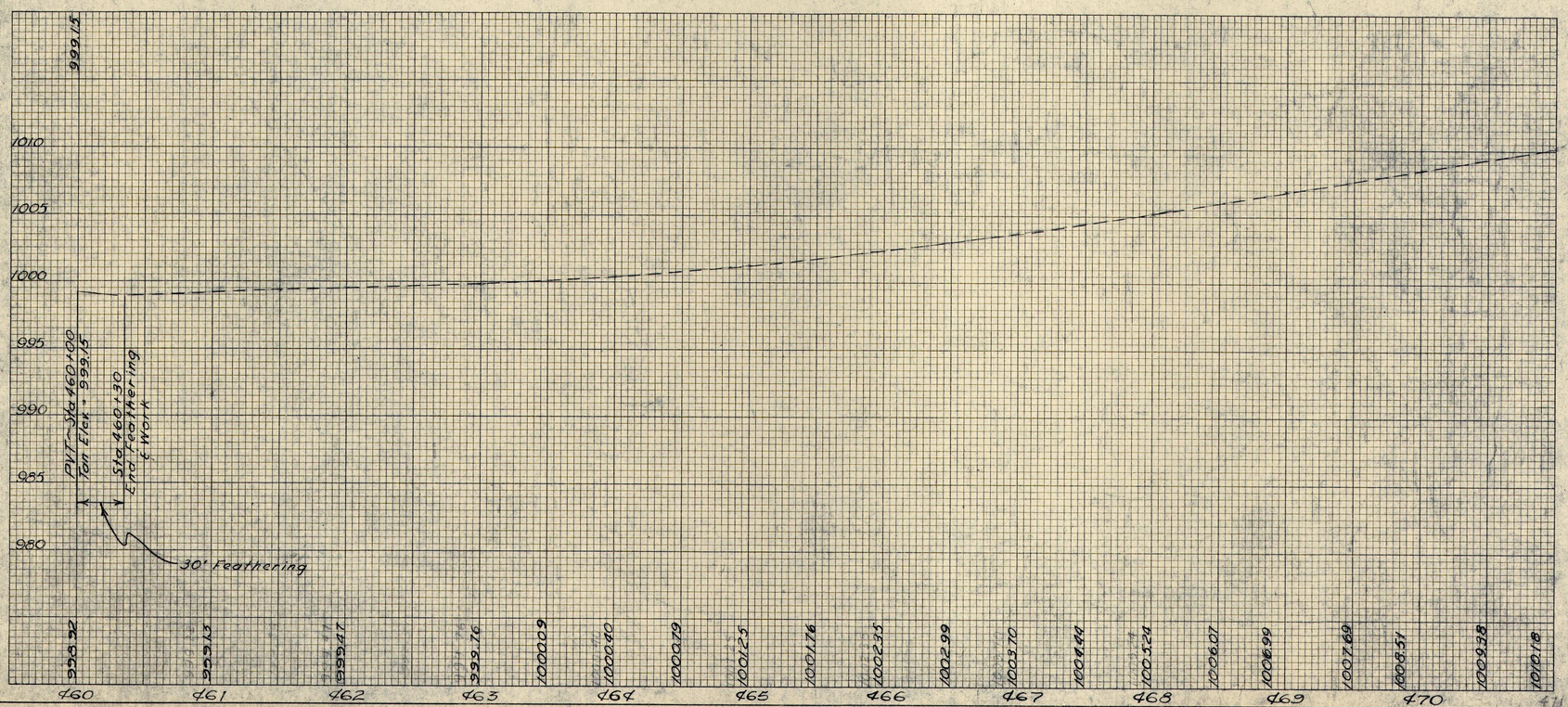
REF. NO.	STATION TO STATION	SIDE	SEE SHEET NO.
1-D	450+00 to 452+00	Lt.	922
1-D	452+00 to 454+00	Lt.	1655
1-D	454+00 to 456+00	Lt.	1655
1-D	456+00 to 458+00	Lt.	1655
1-D	458+00 to 460+00	Lt.	1655

ASD-3-2.70
HOL-3-0.00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		



TYPICAL SECTION OF ADJOINING PAVEMENT

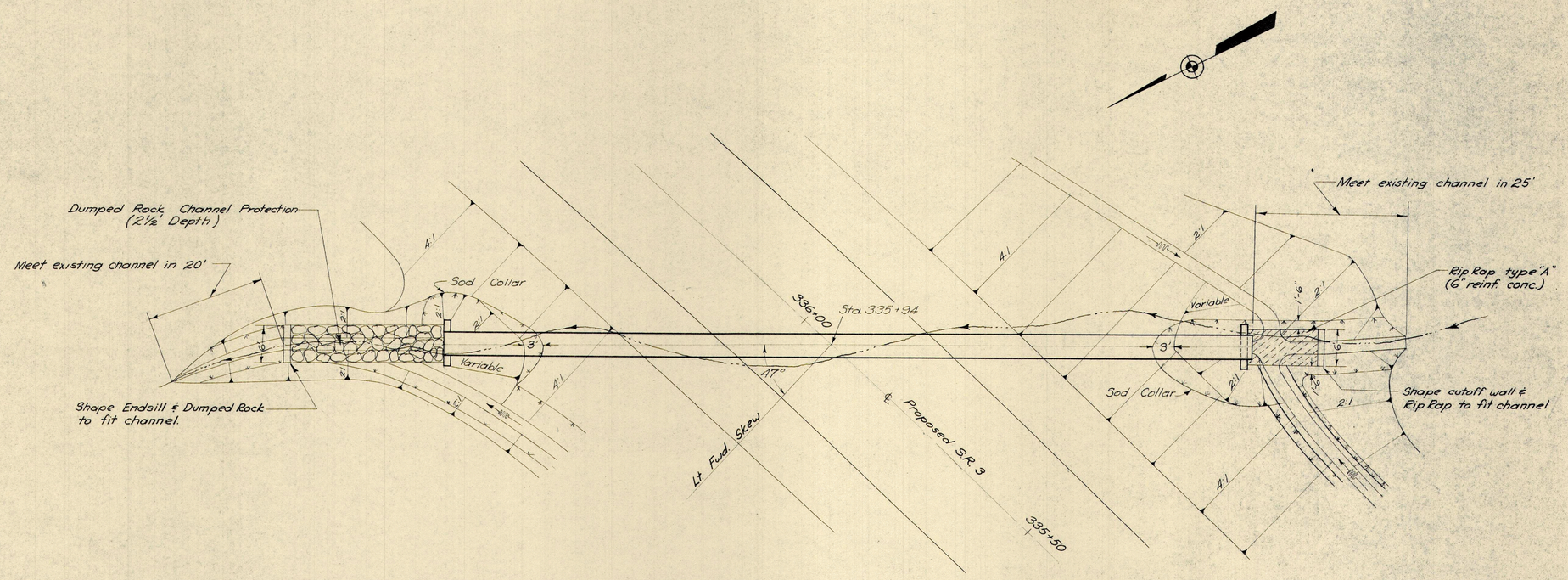


ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ASD-3-2.70
HOL-3-0.00



PLAN

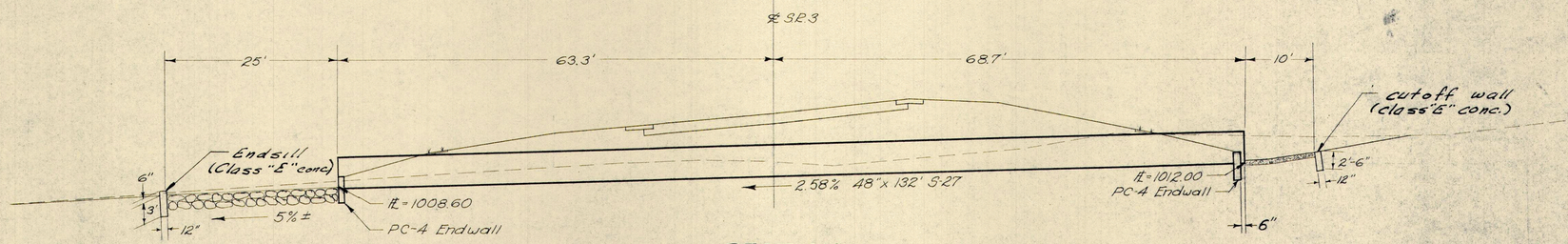
DRAINAGE DATA	
Area =	59 A.
Q25 =	112 cfs.
Head =	5.2 ft.
Vel. Out =	18.5 fps.

CULVERT DATA

TYPE: PIPE
SIZE: 48" X 132'
WORK REQ'D: BUILD A 48" X 132' PIPE CULVERT WITH STD. PC-4 ENDWALLS AND 3' SOD COLLARS LEFT AND RIGHT. PLACE RIPRAP WITH CUTOFF WALL AT INLET AND DUMPED ROCK CHANNEL PROTECTION WITH ENDSILL AT OUTLET. SHAPE INLET AND OUTLET PROTECTION TO FIT CHANNEL AS SHOWN. RECESS PC-4 ENDWALL 6" AT INLET TO ALLOW FOR FUTURE EXTENSION OF PIPE.
STD: DRWG'S: S-27, PC-3 AND S-27, PC-4.

ESTIMATED QUANTITIES

E- 2	EXCAVATION FOR STRUCTURES	129	CU. YDS.
E- 3	CHANNEL EXCAVATION	18	CU. YDS.
I-10	DUMPED ROCK CHANNEL PROTECTION	14	CU. YDS.
I-10	RIPRAP, TYPE "A" (6" REINFORCED CONCRETE)	7	SQ. YDS.
L-10	SODDING	25	SQ. YDS.
S- 1	CONCRETE FOR STRUCTURES, CLASS "E"	3.1	CU. YDS.
S-27	48" PIPE FOR ROADWAY CULVERTS, SEC. M-6.6 (b)	132	LIN. FT.



SECTION
Scale: 1" = 10'

CHANNEL CROSS SECTION
Scale: 1" = 10'

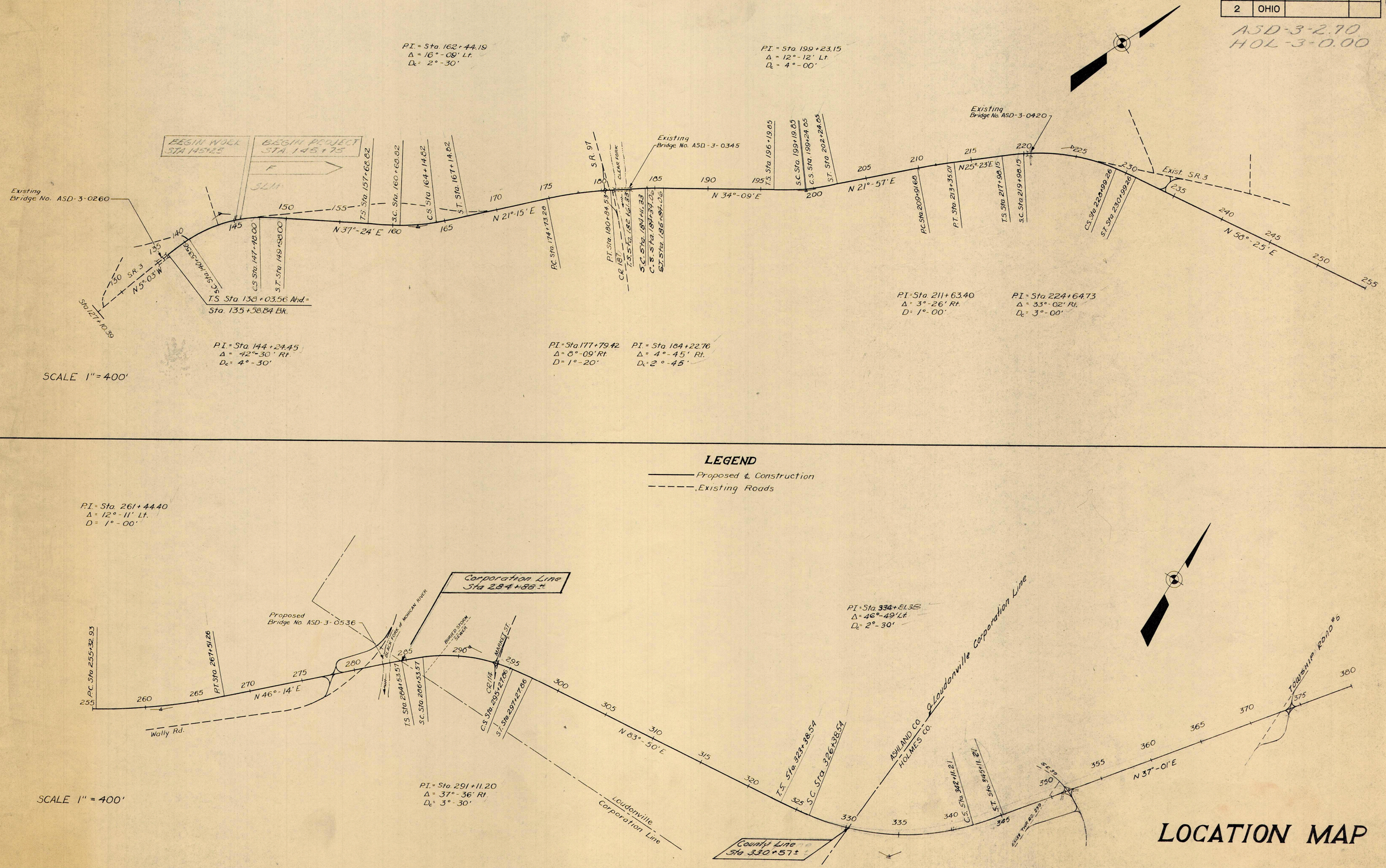
Inlet Section		End Area	Vol.
	0+25	0	5
		20	
1013.8			
0+11			3
1015.8			
	0+05	0	
Stationing refers to dist. from inlet.	Total		8

Outlet Sections		End Area	Vol.
	0+46	0	2
		6	
1007.4			
0+25			8
1007.8		12	
1008.6			
0+00			
1009.7			
Stationing refers to dist. from outlet.	Total		10

PIPE CULVERT STA 335+94

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

ASD-3-2.70
HOL-3-0.00



LOCATION MAP