

3-1-0

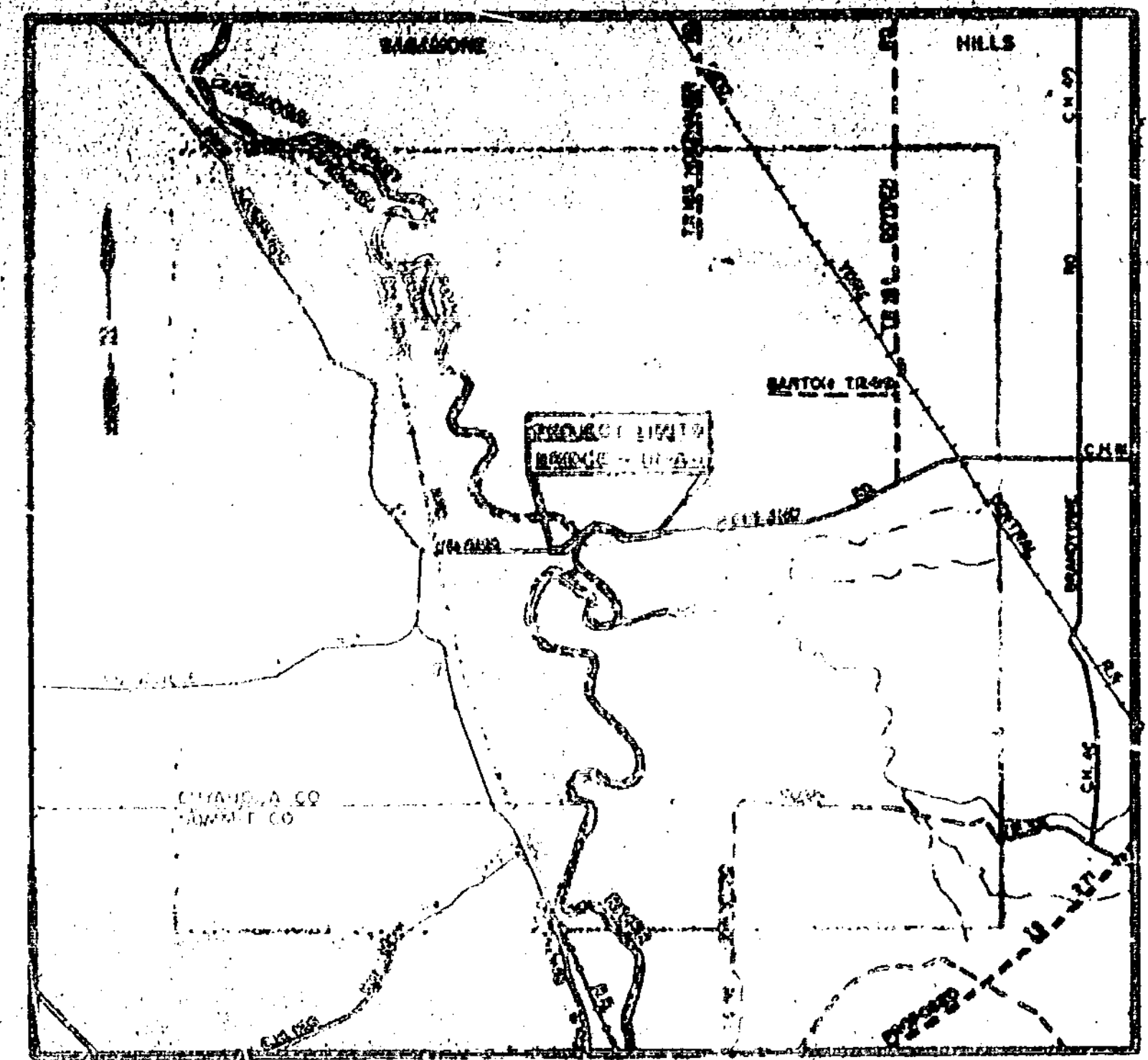
SUMMIT COUNTY DEPARTMENT OF HIGHWAYS RELOCATION OF HIGHLAND RD. C.H. III VAUGHN ROAD

LINE DATA
BEGIN PROJECT STA. 13+90
END PROJECT STA. 38+00
NET LENGTH 1950 L.F. OR 0.360 MILES

CONVENTIONAL SIGNS	
STATE LINE	_____
COUNTY LINE	_____
TOWNSHIP LINE	_____
SECTION LINE	_____
RIGHT-OF-WAY	_____
FENCE LINE	_____
TREES AND/OR SHRUBS	_____
RIVER	_____
PAVED GUTTER	_____
RIP RAP	_____
GUARD RAIL EXISTING	_____
GUARD RAIL PROPOSED	_____
GENERAL POLES	_____
TELEPHONE POLES	_____
POWER POLES	_____
DUMPED ROCK	_____
JUTE MATTING	_____
SOD DITCHES	_____
SEED & MULCH DITCHES	_____
CENTER LINE	_____
RIGHT-OF-WAY WITHOUT LIMITED ACCESS	_____

UTILITIES AFFECTED BY THIS PROJECT

THE WESTERN RESERVE TELEPHONE COMPANY
THE CLEVELAND ILLUMINATING COMPANY



LOCATION PLAN
SCALE 1" = 1 MILE

PORTION OF THE IMPROVED
COUNTY HIGHWAY
TOWNSHIP

INDEX OF SHEETS	
1	PLAN
2	SECTION
3	DETAILS
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48	DETAILS
49	DETAILS
50	DETAILS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, (JANUARY 1, 1967 EDITION), INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS PROJECT.

THE RIGHT-OF-WAY FOR THIS PROJECT WILL BE PROVIDED BY CUYAHOGA AND SUMMIT COUNTIES.

WE, THE COMMISSIONERS OF CUYAHOGA AND SUMMIT COUNTIES, IN JOINT FORMAL SESSION HEREBY APPROVE THESE PLANS AND CERTIFY THAT THE NECESSARY RIGHT-OF-WAY IS AVAILABLE.

BOARD OF COMMISSIONERS - SUMMIT COUNTY

DATE: FEB. 16, 1967
[Signatures]

BOARD OF COMMISSIONERS - CUYAHOGA COUNTY

DATE: FEB. 16, 1967
[Signatures]

WE HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT DETOURS WILL BE PROVIDED BY CUYAHOGA AND SUMMIT COUNTIES.

DATE: Feb. 2, 1967
RALPH VANERINGER REG. PE. NO. 2212 SUMMIT COUNTY ENGINEER

DATE: March 15, 1967
ALBERT S. PORTER REG. PE. NO. 150 CUYAHOGA COUNTY ENGINEER

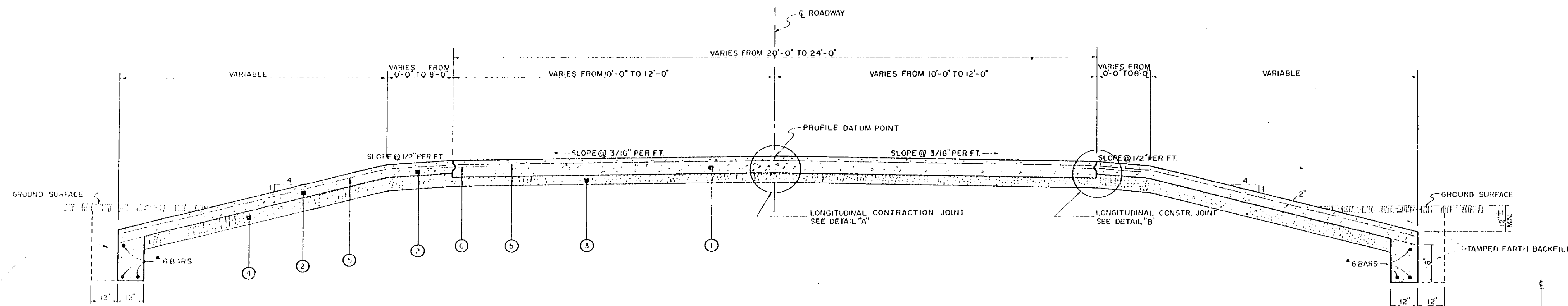
FILED FOR RECORD *[Signature]* DATE: *[Signature]* 1967
SUMMIT COUNTY CLERK

FILED FOR RECORD *[Signature]* DATE: *[Signature]* 1967
CUYAHOGA COUNTY CLERK

TYPICAL SECTIONS

2
50

TYPE 451 ON 310



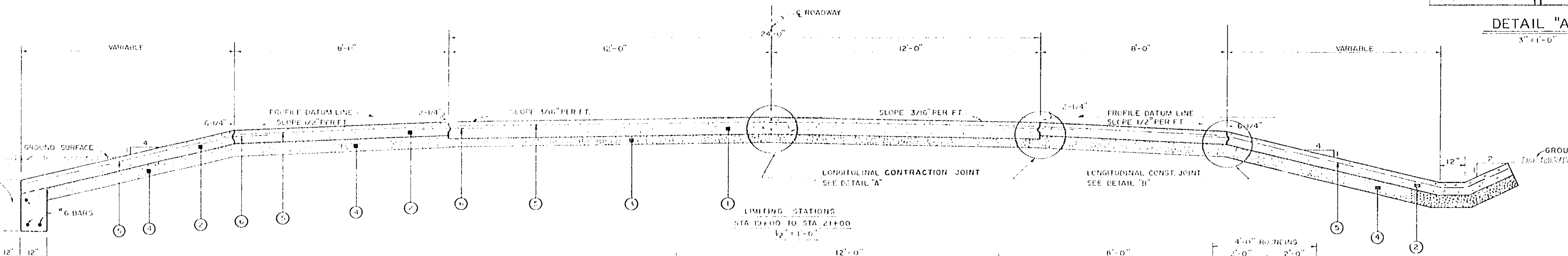
LEGEND

- 1 ITEM 451 - 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- 2 ITEM 451 - 6" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- 3 ITEM 310 - 3" SUBBASE
- 4 ITEM 310 - 6" SUBBASE
- 5 ITEM - 4" 6-4/8 WELDED WIRE FABRIC
- 6 ITEM - #5 DEFORMED BARS 30" LONG @ 10" 5/8
- 7 ITEM 411 - 6" STABILIZED CRUSHED AGGREGATE SHOULDER

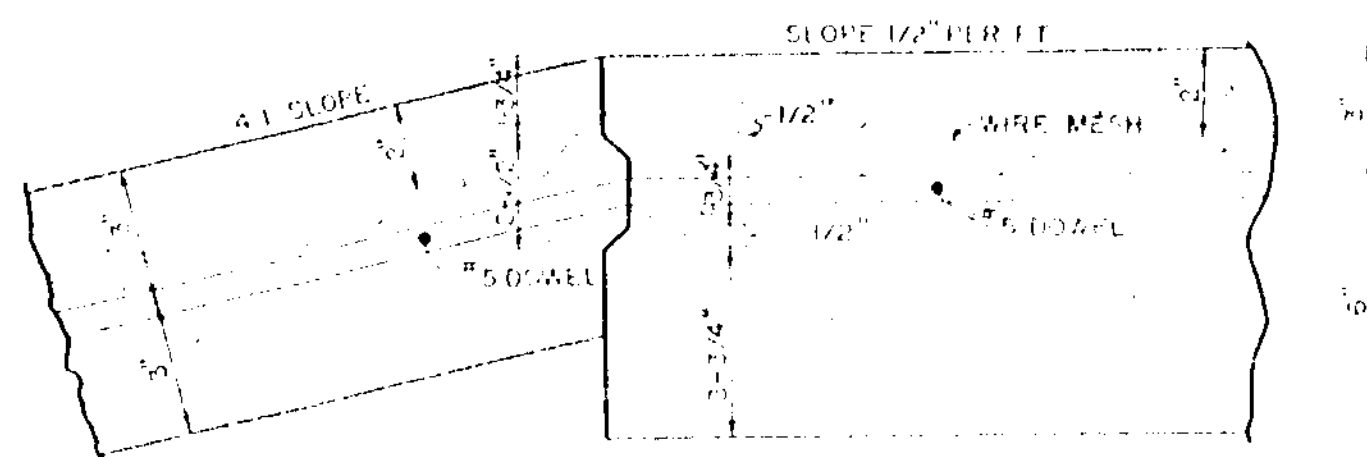
TRANSITION SECTION

LIMITING STATIONS
STA 18+50 TO STA 19+00
1/2" 1'-0"

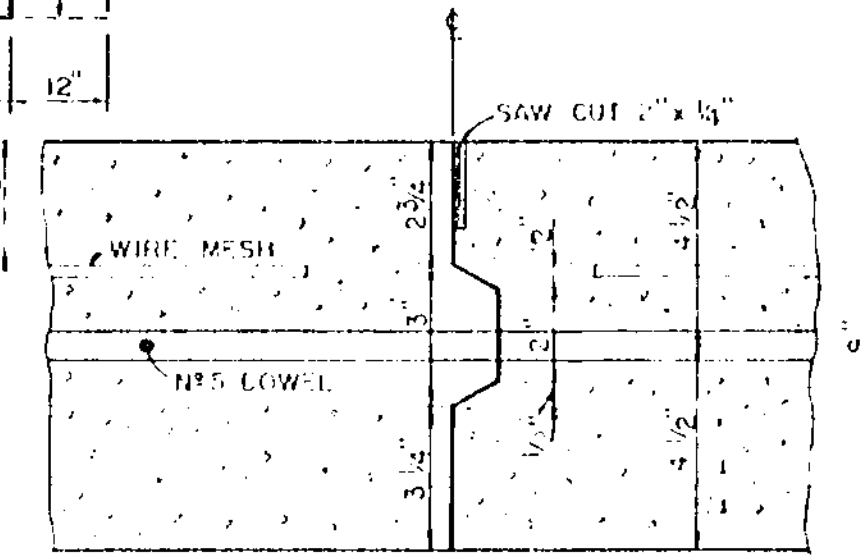
TYPE 451 ON 310



DETAIL "B"



DETAIL "A"

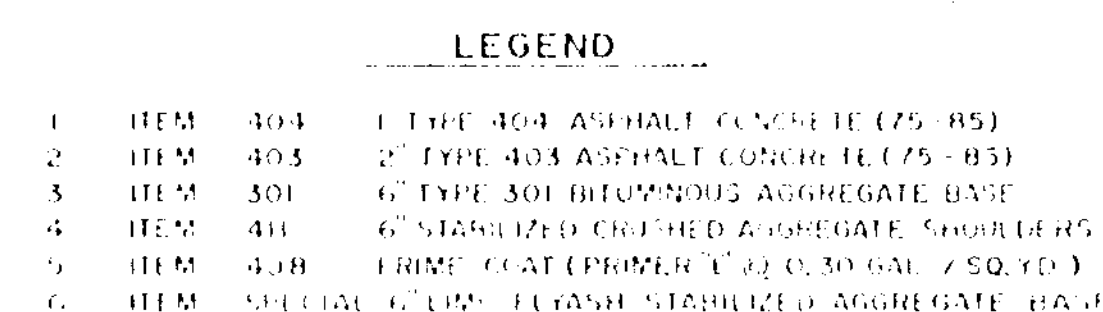


HIGHLAND RD. C.H. III

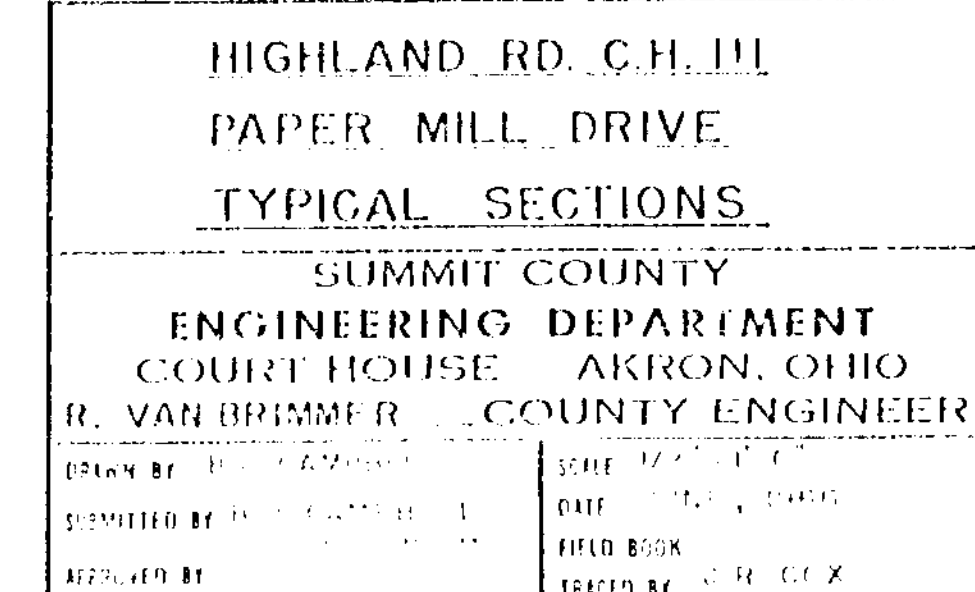
TYPICAL SECTIONS

SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO	
R. VAN BRIMMER COUNTY ENGINEER	
DRAWN BY B.J. CAMPBELL	SCALE AS SHOWN
SUBMITTED BY B.J. CAMPBELL	DATE 6/14/66
APPROVED BY	FIELD BOOK
	TRACED BY J.R. COX

TYPE 404 ON 301



TYPE 403 ON SPECIAL BASE



GENERAL

SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF HIGHWAYS, (JANUARY 1, 1967 EDITION) SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT. REFERENCE MADE TO NUMERICAL SECTIONS IN THE CONTEXT OF THESE PLANS SHALL BE DEEMED TO REFER TO THE ABOVE DEPARTMENT OF HIGHWAYS SPECIFICATIONS.

SMALL DRAINS

WHERE DRAINS FROM DOWNSPOUTS, FIELD DRAINS, ETC., ARE ENCOUNTERED AND NOT SHOWN ON THE PLANS, THEY SHALL BE GIVEN AN UNOBSTRUCTED OUTLET AT THE DIRECTION OF THE ENGINEER. AN ESTIMATED QUANTITY OF 50 LIN. FT. OF 6" VPI (SEC. 706.09) HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR THIS PURPOSE.

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE IN ACCORDANCE WITH SEC. 105.152 HAVING A MINIMUM FLOOR AREA OF 100 SQUARE FEET. THE CONTRACTOR SHALL HAVE ELECTRICITY, HEAT AND A TELEPHONE INSTALLED AND MAINTAINED DURING THE CONSTRUCTION OF THIS PROJECT.

BERMS AND SLOPES

BERMS, SLOPES AND ROUNDINGS SHALL BE FINISHED IN ACCORDANCE WITH STANDARD DRAWING MC-1 EXCEPT WHERE OTHERWISE SHOWN ON THE CROSS SECTIONS. ALL SLOPES IN TRANSITIONS FROM CUT TO FILL SHALL BE MADE IN A MANNER TO BLEND WITH THE SURROUNDING TERRAIN AS DIRECTED BY THE ENGINEER.

EXISTING UTILITIES

THE LOCATION, TYPE, SIZE AND/OR DEPTH OF ALL EXISTING UTILITIES ARE SHOWN AS ACCURATELY AS AVAILABLE INFORMATION PERMITS. THE COUNTY OF SUMMIT WILL NOT BE RESPONSIBLE FOR VARIATIONS FOUND DURING CONSTRUCTION.

PAVEMENT EDGE ELEVATIONS

PROPOSED EDGE OF PAVEMENT ELEVATIONS ON INTERSECTIONS MAY BE ADJUSTED BY THE ENGINEER DURING CONSTRUCTION TO FACILITATE DRAINAGE AND/OR TO PROVIDE A SMOOTH TRANSITION BETWEEN THE PROPOSED PAVEMENT AND EXISTING PAVEMENT.

UTILITY ADJUSTMENT

ANY AND ALL WORK REQUIRED FOR REMOVING, RELOCATING AND CONSTRUCTION OF NEW FACILITIES WILL BE DONE BY AND AT THE EXPENSE OF THE RESPECTIVE OWNERS, UNLESS OTHERWISE NOTED ON THE PLANS.

PROPERTY MARKERS

ALL IRON PIPES OR MARKERS WITHIN THE LIMITS OF THE PROJECT SHALL BE PRESERVED AND ADJUSTED TO THE NEW GRADE BY THE CONTRACTOR, AT THE DIRECTION OF THE ENGINEER. THE COST OF ADJUSTING OR RESETTING MARKERS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 203, "EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION."

MONUMENT ASSEMBLIES

MONUMENT ASSEMBLIES SHALL BE FURNISHED AND PLACED IN ACCORDANCE WITH STD. DRAWING MC-1, DATED 6-1-65.

SPECIAL LIME-FLYASH STABILIZED AGGREGATE BASE

THIS 6" BASE COURSE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATIONS ATTACHED TO THE FORM OF PROPOSAL.

MAINTAINING TRAFFIC

TRAFFIC SHALL BE MAINTAINED OVER EXISTING HIGHLAND ROAD AND VAUGHN ROAD UTILIZING THE EXISTING ALIGNMENT AND STRUCTURES UNTIL GRADING AND PAVING OPERATIONS REQUIRE THAT IT BE CLOSED TO TRUCK TRAFFIC.

THE CONTRACTOR SHALL OBTAIN THE WRITTEN PERMISSION OF THE SUMMIT COUNTY ENGINEER BEFORE CLOSING THE ROAD TO TRAFFIC. THE SUMMIT COUNTY ENGINEER WILL BE RESPONSIBLE FOR COORDINATING DETOURS WITH THE CUYAHOGA COUNTY ENGINEER, AND IN ADDITION WILL SET UP AND MAINTAIN ALL DETOURS.

NOTES

GUARD RAIL ADJUSTMENT

THE STATIONING OF INDIVIDUAL RUNS OF GUARD RAIL SHALL BE ADJUSTED, IF NECESSARY, BY THE ENGINEER AT THE TIME OF CONSTRUCTION TO ACCOMMODATE THE STANDARD PANEL LENGTHS FURNISHED.

FINAL PAYMENT

FINAL PAYMENT FOR THE FOLLOWING ITEMS:

203	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	EMBANKMENT
203	WATER
601	DUMPED ROCK FILL, TYPE "A"

SHALL BE BASED ON THE QUANTITY AS SHOWN ON THESE PLANS AND IN THE PROPOSAL, CHECKED DURING CONSTRUCTION TO INSURE THAT THE COMPLETED WORK CONFORMS TO THE PLANS AND IS WITHIN THE TOLERANCES ALLOWED UNDER SECTIONS 203.06 AND 601.07. FINAL MEASUREMENTS WILL NOT BE TAKEN.

SEEDING, FERTILIZER AND LIME

QUANTITIES FOR THESE ITEMS ARE CALCULATED FOR THE SOIL AREAS BETWEEN THE WORK LIMITS SHOWN ON THE ROADWAY CROSS SECTIONS, AND THE CHANNEL CROSS SECTIONS. SEED MIXTURE FOR SHOULDERS, DITCHES AND AREAS IN FRONT OF RESIDENCES SHALL BE AS FOLLOWS:

CREEPING RED FESCUE	20 %
KENTUCKY BLUE GRASS	20 %
KENTUCKY 31 FESCUE	45 %
RED TOP	10 %
ALSIKE CLOVER	5 %

SLOPES AND OTHER AREAS, EXCEPT THOSE MENTIONED ABOVE SHALL BE SEEDD WITH THE FOLLOWING MIXTURE:

KENTUCKY BLUE GRASS	20 %
KENTUCKY 31 FESCUE	45 %
RED TOP	10 %
YELLOW BLOSSOM SWEET CLOVER	25 %

100 LB. COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 20 LBS. PER 1000 SQUARE FEET.

LIQUID FERTILIZER SHALL BE APPLIED AT THE RATES PRESCRIBED IN SECTION 659.08.

AGRICULTURAL LIMING MATERIAL SHALL BE APPLIED AT THE RATE OF 100 LBS. PER 1000 SQUARE FEET.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF EXISTING PIPE DRAINS WITHIN THE LIMITS OF PROPOSED EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

CONSTRUCTION OF THE PAPER MILL ROAD

THE FIRST PHASE OF CONSTRUCTION FOR THIS PROJECT FOLLOWING CLEARING AND GRUBBING OPERATIONS SHALL BE THE CONSTRUCTION OF THE PAPER MILL ROAD.

AFTER THE ROADWAY HAS BEEN BROUGHT TO SUBGRADE, SIX INCHES (6") OF ITEM 411, STABILIZED CRUSHED AGGREGATE SHALL BE APPLIED TO THE ROADWAY AREA AND COMPACTED.

THE ROAD SHALL THEN BE OPENED TO TRAFFIC AND MAINTAINED BY THE CONTRACTOR, UNTIL SUCH A TIME THAT FINAL PAVING OPERATIONS DICTATE THAT IT BE CLOSED TO APPLY THE LIME-FLYASH STABILIZATION PROCESS AND THE ASPHALT CONCRETE.

THE CONTRACTOR SHALL GIVE THE ENGINEER SEVEN (7) DAYS ADVANCED NOTICE OF ANY CONTEMPLATED CLOSING DATE FOR THIS ROAD, SO THAT THE PAPER MILL CAN ADJUST THEIR TRUCK DELIVERY SCHEDULE IF REQUIRED.

ITEM 203 EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION

ITEM 203 EMBANKMENT

THE QUANTITIES SHOWN IN THE GENERAL SUMMARY AND IN THE PROPOSAL REFLECT THE TOTAL QUANTITIES OF EXCAVATION AND EMBANKMENT REQUIRED FOR HIGHLAND RD., PAPERMILL DR. AND CUYAHOGA RIVER CHANNEL WORK. THE TOTAL ESTIMATED QUANTITIES WERE ARRIVED AT AS FOLLOWS:

	EXCAVATION	EMBANKMENT
HIGHLAND RD.	3,411 C.Y.	11,300 C.Y.
PAPERMILL DR.	172 C.Y.	2,093 C.Y.
CUY. RIVER CHANNEL	18,591 C.Y.	13,787 C.Y.
TOTALS	22,174 C.Y.	27,180 C.Y.

CHANNEL EXCAVATION SHALL BE USED IN THE CHANNEL EMBANKMENT; HOWEVER, THE REMAINING SURPLUS CHANNEL EXCAVATION MAY BE USED IN THE ROADWAY EMBANKMENTS ONLY IF IT IS FOUND TO BE SUITABLE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 203.06.

GENERAL

CUYAHOGA COUNTY			SUMMIT COUNTY			TOTAL	DESCRIPTION
ITEM	QUANT.	UNIT	ITEM	QUANT.	UNIT	QUANT.	
201	50%	LUMP	201	50%	LUMP	SUM	CLEARING & GRUBBING
202	0	LUMP	202	100%	LUMP	SUM	EXISTING STRUCTURES REMOVED AS PER PLAN
202	0	LIN. FT.	202	66	LIN. FT.	66	PIPE REMOVED, AS PER PLAN
202	1000	SQ. YD.	202	1311	SQ. YD.	2311	EXISTING PAVEMENT REMOVED & DISPOSED OF
203	9527	CU. YD.	203	12647	CU. YD.	22174	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203	12613	CU. YDS	203	15367	CU. YDS	27980	EMBANKMENT
203	0.063	M.G.	203	0.077	M.G.	0.140	WATER
203	2514	SQ. YD.	203	7936	SQ. YD.	10450	SUBGRADE PREPARATION
604	1	EACH	604	1	EACH	2	MONUMENT ASSEMBLIES, AS PER PLAN
606	430	LIN. FT.	606	1633	LIN. FT.	2063	GUARD RAIL, TYPE 1
604	50%	LUMP	604	50%	LUMP	SUM	MAINTAINING TRAFFIC
659	0.176	TON	659	0.621	TON	0.797	COMMERCIAL FERTILIZER (12-12-12)
659	0.878	TON	659	3.104	TON	3.982	AGRICULTURAL LIMING
659	1951	SQ. YD.	659	6897	SQ. YD.	8848	SEEDING & MULCHING
601	0	LIN. FT.	601	146	LIN. FT.	146	PAVED GUTTER, MODIFIED AS PER PLAN
602	0	CU. YD.	602	36	CU. YD.	36	CONCRETE MASONRY, AS PER PLAN
603	35	LIN. FT.	603	35	LIN. FT.	70.72	72" CONDUIT, TYPE E, AS PER PLAN
603	0	LIN. FT.	603	84	LIN. FT.	84	72" X 44" CONDUIT, TYPE F, AS PER PLAN
603	0	LIN. FT.	603	116	LIN. FT.	116	12" CONDUIT, TYPE F, WITH CLASS "B" BACKFILL
603	25	LIN. FT.	603	25	LIN. FT.	50	6" CONDUIT, TYPE E, AS DIRECTED BY THE ENGINEER
601	240	SQ. YD.	601	295	SQ. YD.	535	RIPRAP, 6" REINFORCED CONCRETE, AS PER PLAN
601	719	CU. YD.	601	719	CU. YD.	1438	DUMPED ROCK FILL, TYPE A, AS PER PLAN
601	0	CU. YD.	601	42	CU. YD.	42	DUMPED ROCK CHANNEL PROTECTION, AS PER PLAN
660	0	SQ. YD.	660	1128	SQ. YD.	1128	SODDED DITCHES, AS PER PLAN
301	0	CU. YD.	301	766	CU. YD.	766	BITUMINOUS AGGREGATE BASE (T-6) (702.01) (85-100)
310	0%	CU. YD.	310	0	CU. YD.	100	SUBBASE (T-3) (703.08 OR 703.10)
310	1130	CU. YD.	310	0	CU. YD.	1130	SUBBASE (T-6) (703.08 OR 703.10)
403	0	CU. YD.	403	346	CU. YD.	346	ASPHALT CONCRETE (T-2) (70-85)
404	0	CU. YD.	404	126	CU. YD.	126	ASPHALT CONCRETE (T-1) (70-85)
408	0	GALLON	408	1718	GALLON	1718	BITUMINOUS PRIME COAT (702.03, PRIMER "L") (10.25 GAL./SQ. YD.)
411	50	CU. YD.	411	335	CU. YD.	385	STABILIZED CRUSHED AGGREGATE (T-6)
411	1130	SQ. YD.	411	0	SQ. YD.	1130	9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN
451	1088	SQ. YD.	451	0	SQ. YD.	1088	6" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN
611	6.7	SQ. YD.	611	6.7	SQ. YD.	13.4	REINFORCED CONCRETE APPROACH SLABS (T-13)
SPECIAL	0	SQ. YD.	SPECIAL	1628	SQ. YD.	1628	6" LIME-FLYASH STABILIZED AGGREGATE BASE

BRIDGE III-A-1

GENERAL SUMMARY

GENERAL NOTES

SUMMIT COUNTY

ENGINEERING DEPARTMENT
COURT HOUSE AKRON, OHIO

R. VAN BRIMMER, COUNTY ENGINEER

DESIGNED BY J.R. COX

SKETCHED BY R. J. CAMPBELL

APPROVED BY

DATE

DATE DEPT. 1966

DATE EDC

DATE BY

CUYAHOGA

COUNTY

VAUGHN RD. 40' R/W

O.L. 75
O.L. 74

LINE 16+00
MATCH STATION

N

CUYAHOGA COUNTY

SUMMIT COUNTY

ORIGINAL C DATA

$\Delta = 39^\circ 28' 10''$
 $Dc = 10^\circ 00' 00''$
 $R = 572.96'$
 $A = 205.54'$
 $Ch = 394.70'$
 $PI = 386.94'$

RELOCATION C DATA

$\Delta = 12^\circ 50' 02''$
 $Dc = 3^\circ 30' 00''$
 $R = 1637.02'$
 $T = 104.11'$
 $A = 366.68'$
 $Ch = 365.92'$
 $PI = STA. 20+84.63$

ORIGINAL C DATA

$\Delta = 73^\circ 32' 00''$
 $Dc = 30^\circ 00' 00''$
 $A = 245.11'$
 $T = 142.71'$
 $R = 190.99'$
 $PI = STA. 4+26.13$

ORIGINAL C DATA

$\Delta = 41^\circ 49' 30''$
 $Dc = 15^\circ 00' 00''$
 $A = 278.83'$
 $T = 145.97'$
 $R = 381.97'$
 $PI = STA. 6+96.32$

RELOCATION C DATA

$\Delta = 5^\circ 04' 22''$
 $Dc = 1^\circ 30' 00''$
 $R = 3809.72'$
 $T = 169.20'$
 $A = 338.18'$
 $Ch = 338.07'$
 $PI = STA. 29+61.19$

RELOCATED

O.L. 70

SAGAMORE HILLS TWP.

END PROJECT
STATION 38+00

EQUATION
STA. 38+00 BACK
STA. 15+22.21 AHEAD

HIGHLAND RD. C.H. III

SCHEMATIC PLAN

SUMMIT COUNTY
ENGINEERING DEPARTMENT
COURT HOUSE AKRON, OHIO
R. VAN BRIMMER COUNTY ENGINEER

DRAWN BY: R. J. CAMPBELL
SUBMITTED BY: R. J. CAMPBELL
APPROVED BY:

DATE: JUNE 1966
FIELD BOOK
TRACED BY: J. R. COX

<u>EXISTING STRUCTURE</u>	
TYPE	PRATT TRUSS
SPAN	120.26' ±
ROADWAY	14' 1/4 WOOD CURB
LOADING	UNKNOWN
SKEW	NONE
CONDITION	POOR
DATE BUILT	1891 REPAIRED 1973

PROPOSED STRUCTURE

TYPE PRESTRESSED REINFORCED CONCRETE BOX BEAM

SPANS 37'-4" - 43'-4" 6% BEARINGS

ROUTE WAY 36'-0" 1/4 GUARDRAIL

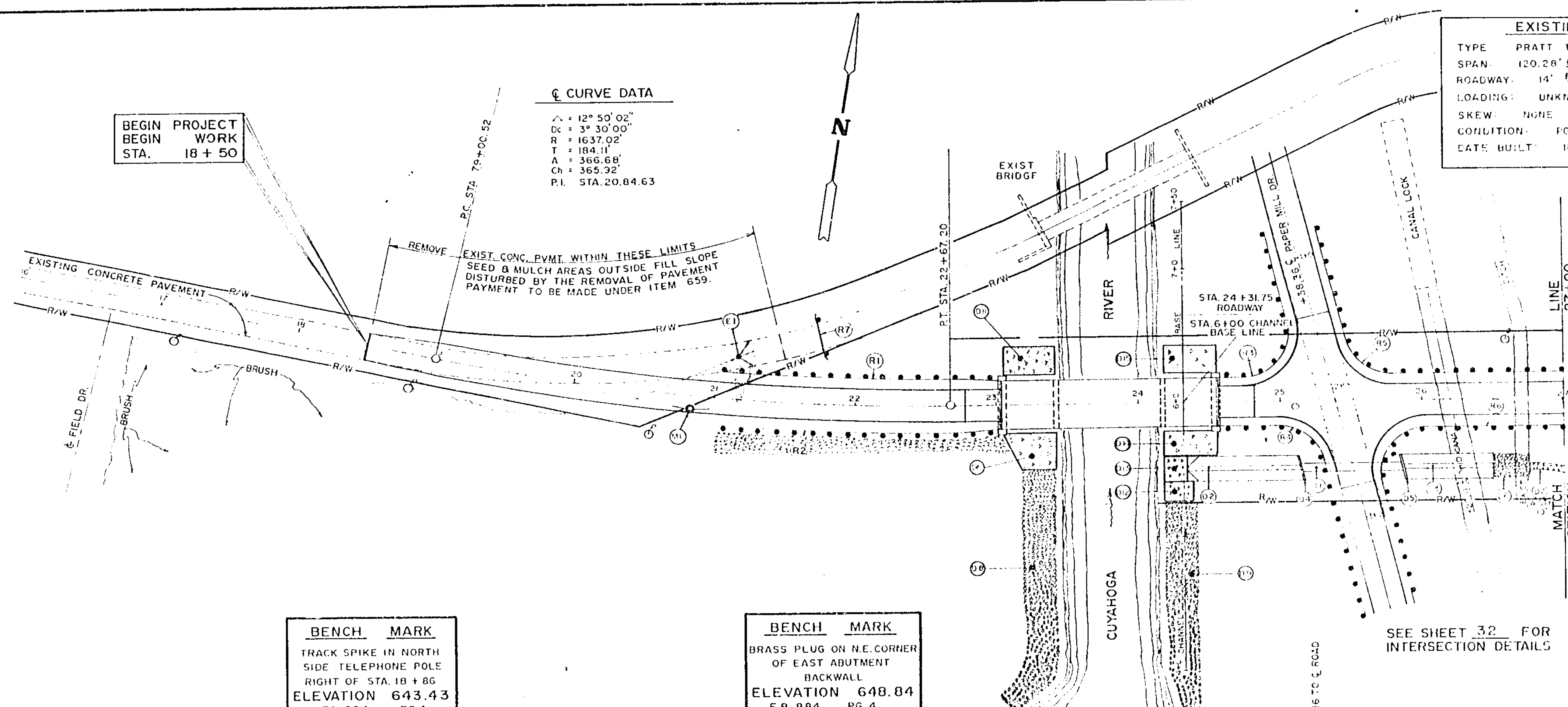
LOAD FREQUENCY S-15-60

SKIN NONE

WEARING SURFACE: ASPHALT CONCRETE

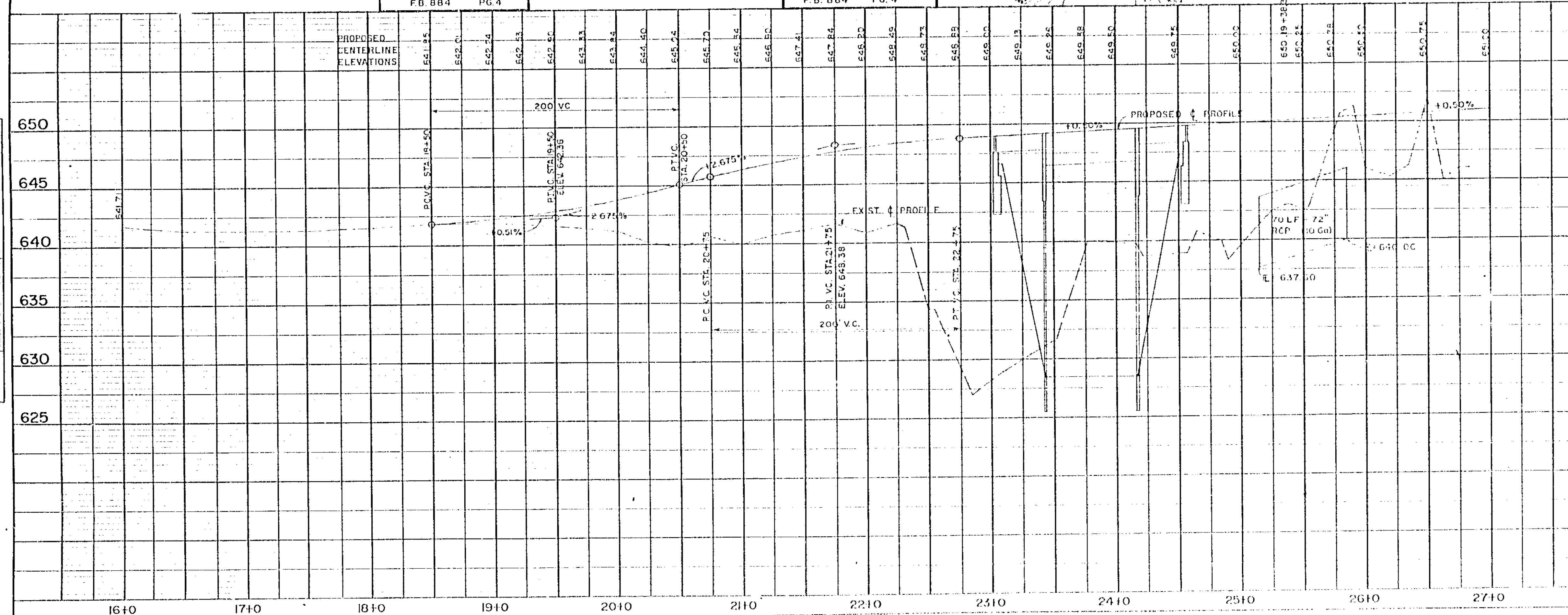
APPROACH SLABS AS-1-54 (25' LONG)

ALIGNMENT TANGENT



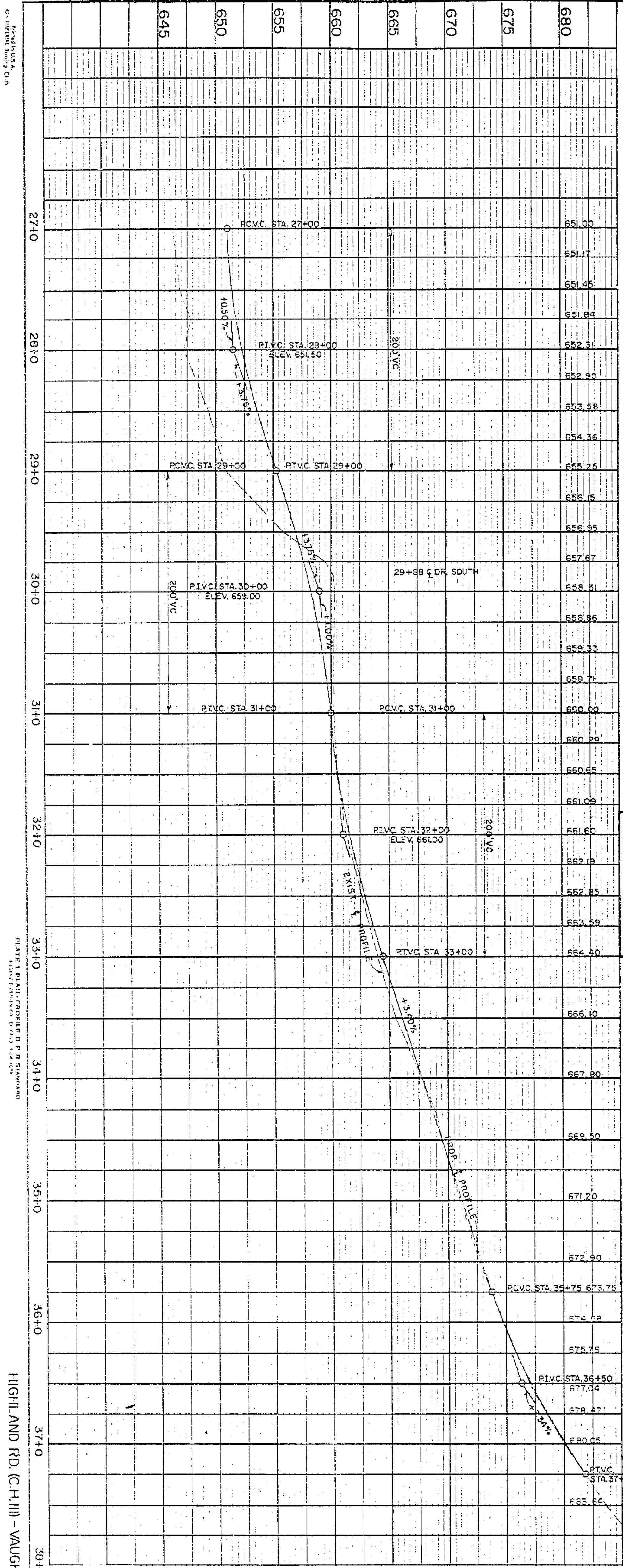
PLAN	DATE
NOTE BOOK	DATE
NO. 655	DATE

	DATE	BY
SURVEYED		
PLOTTED		
CHARTS CHECKED		
B.M.'s NOTED		
865		

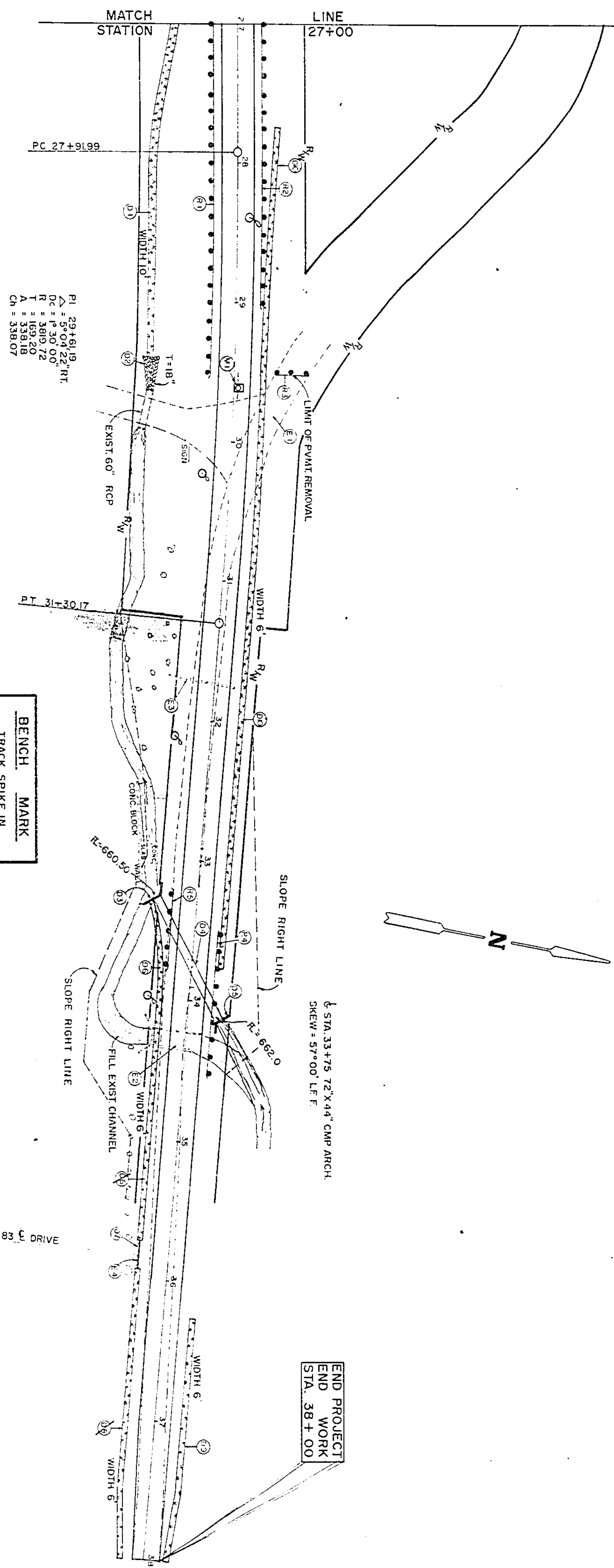
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PROFILE	BY	DATE
SURVEYED		
NOTED		
NOTE BOOK		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATIONS ON 20		

PLAN	BY	DATE
SURVEYED		
NOTED		
NOTE BOOK		
ALIGNMENT CHECKED		
RT OF WAY CHECKED		



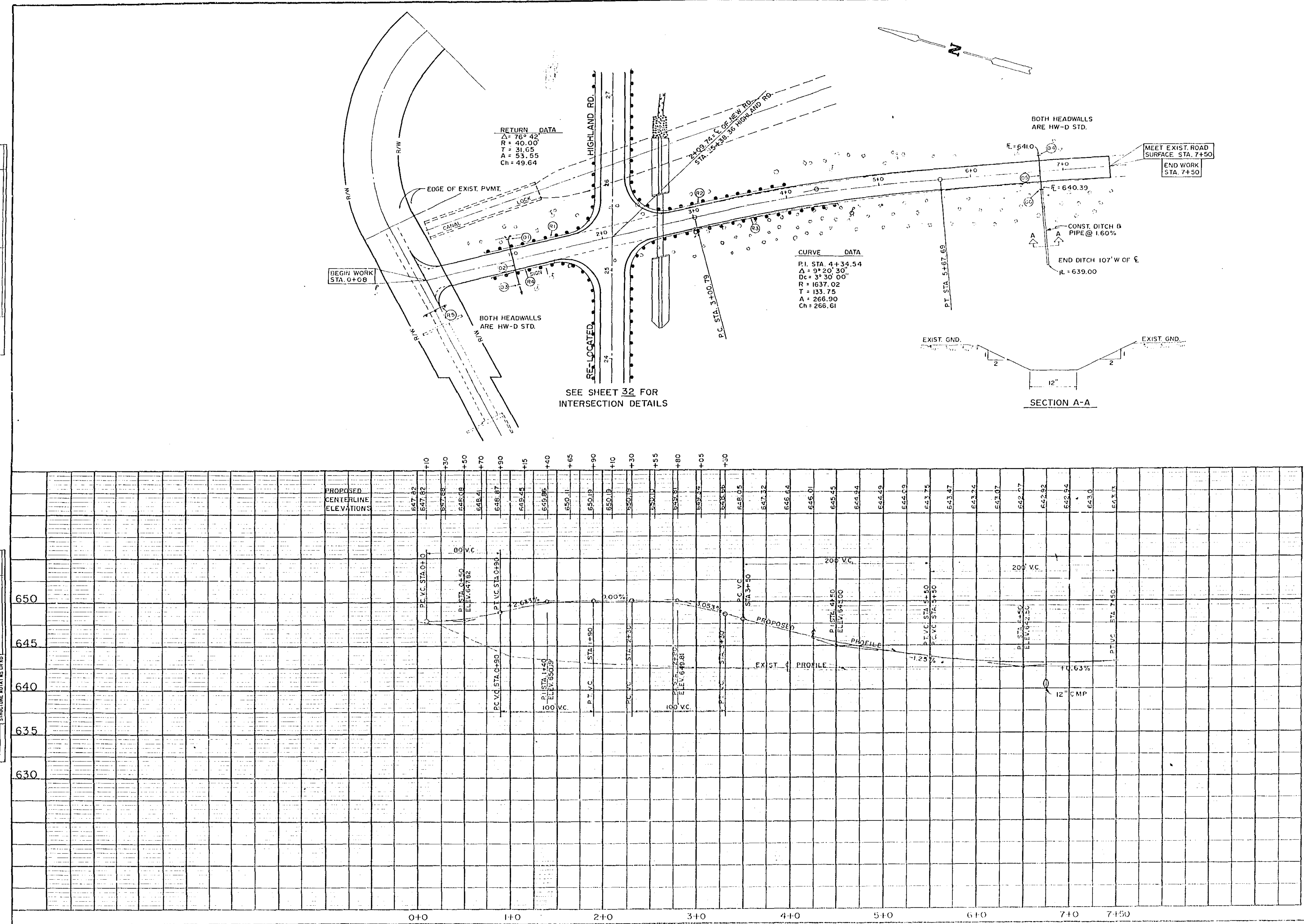
BENCH MARK
TRACK SPIKE IN
POLE RIGHT OF
WAY
ELEVATION 661.02
F.B. 189
F.B. 11



ESTIMATED										QUANTITIES					
REF NO	STATION TO STATION	S I D E	202 EXIST. P.V.M.T. REMOVED & DISPOSED OF SQ. YD.	202 EXISTING STRUCTURE REMOVED LUMP SUM	202 PIPE REMOVED LIN. FT.	601.08 DUMPED ROCK CHANNEL PROTECTION CU. YD.	602 MASONRY CU. YD.	603 72"X44" CONDUIT TYPE "D" W/CLASS "B" BACKFILL LIN. FT.	603 12" CONDUIT TYPE "F" WITH CLASS "B" BACKFILL LIN. FT.	606 GUARD RAIL TYPE "4" LIN. FT.	660 SODDED DITCHES SQ. YD.	604 MONUMENT ASSEMBLIES EACH	SEE SHEET NO.		
E-1	29+50 TO 38+00	L	191												
E-1	29+50 TO 38+00	R													
E-1	34+29														
E-1	31+73														
E-1	35+75 TO 35+91	RT			50										
E-1					16										
D-1	27+00 TO 29+50	RT									267			33	
D-2	29+40 TO 29+65	RT				14									
D-4	33+29.78	RT					15.4								
D-4	33+75	L						54						34	
D-6	34+10.22	LT					15.4								
D-7	35+30 TO 36+75	RT	NON-PERF.								475			33	
D-7	35+30 TO 36+75	RT							20						
D-8	36+95 TO 38+00	RT									140			33	
D-9	36+25 TO 38+00	LT									117			33	
D-10	27+75 TO 33+75	LT									463			33	
M-1	29+50 [P.1]	LT													
R-1	27+00 TO 29+50	RT								250					
R-2	27+00 TO 29+00	LT								200					
R-3	29+50	LT								25					
R-4	33+50 TO 34+50	LT								100					
R-5	33+25 TO 33+75	RT								50					
									</						

PLAN	DATE
DESIGNED	BY
PLOTTED	BY
NOTED	BY
NO.	

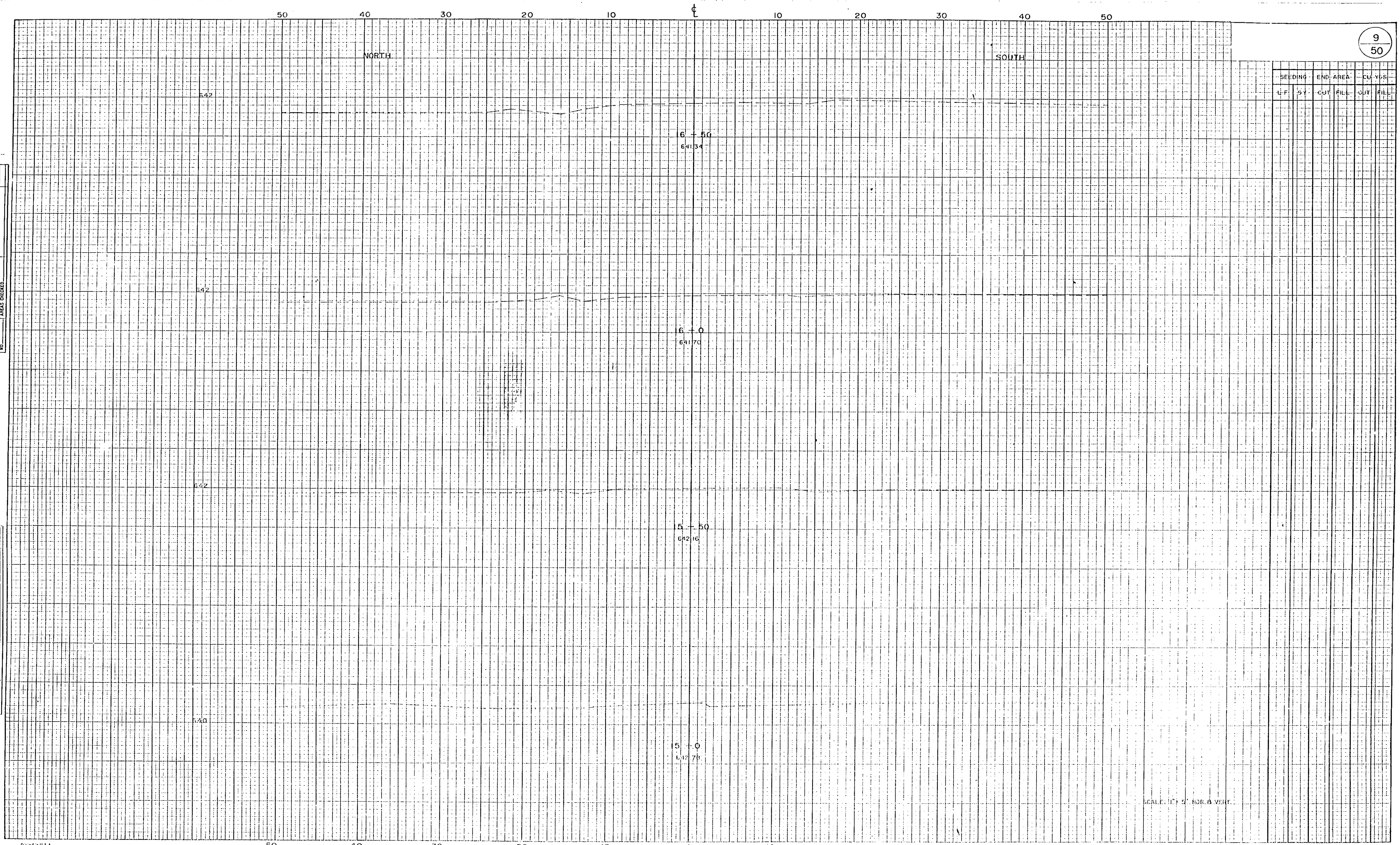
PROFILE	DATE
DESIGNED	BY
PLOTTED	BY
NOTED	BY
NO.	



ESTIMATED		QUANTITIES			
REF	STATION TO STATION	603	606	602	SEE SHEET NO
NO		12" CONDUIT GUARD RAIL CLASS 'B' BACKFILL	TYPE 4	MASONRY	
1	0+00 TO 0+75	58	1.3	1.3	
2	0+75 TO 1+00	58	1.3	1.3	
3	1+00 TO 1+75	58	1.3	1.3	
4	1+75 TO 2+00	58	1.3	1.3	
5	2+00 TO 2+75	58	1.3	1.3	
6	2+75 TO 3+00	58	1.3	1.3	
7	3+00 TO 3+75	58	1.3	1.3	
8	3+75 TO 4+00	58	1.3	1.3	
9	4+00 TO 4+75	58	1.3	1.3	
10	4+75 TO 5+00	58	1.3	1.3	
11	5+00 TO 5+75	58	1.3	1.3	
12	5+75 TO 6+00	58	1.3	1.3	
13	6+00 TO 6+75	58	1.3	1.3	
14	6+75 TO 7+00	58	1.3	1.3	
15	7+00 TO 7+50	58	1.3	1.3	

DATE	BY	NO.
SURVEY	DATE	NO.
NO.	DATE	NO.
NO.	DATE	NO.

DATE	BY	NO.
SURVEY	DATE	NO.
NO.	DATE	NO.
NO.	DATE	NO.

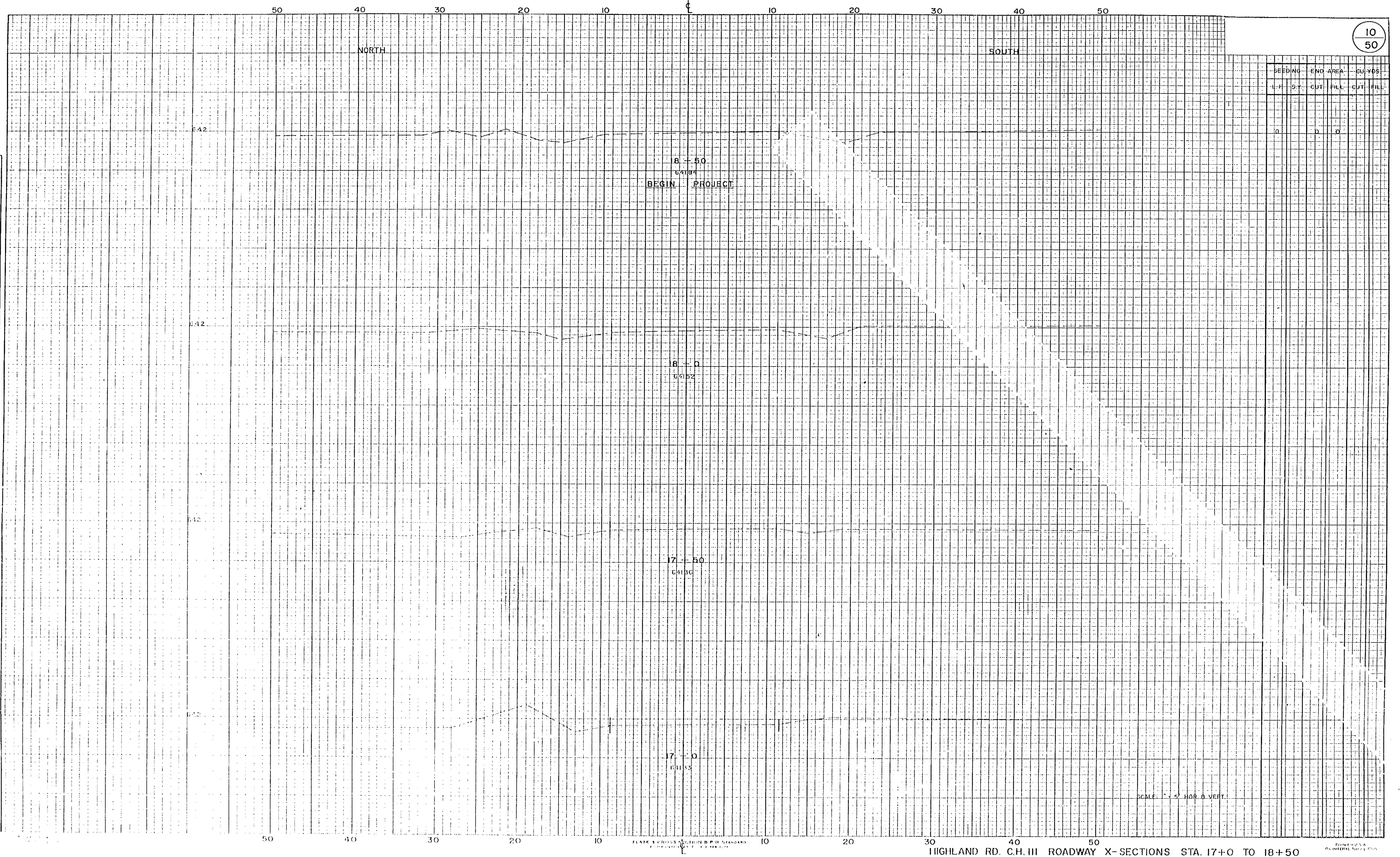


9
50

SEEDING	END AREA	CUT YDS
LF	FT	FT

FINAL	REVISED	DATE
SURVEY	AREA	
NOTE BOOK	PROJECT	
NO.	AREA CHIEF	

FINAL	REVISED	DATE
SURVEY	AREA	
NOTE BOOK	PROJECT	
NO.	AREA CHIEF	



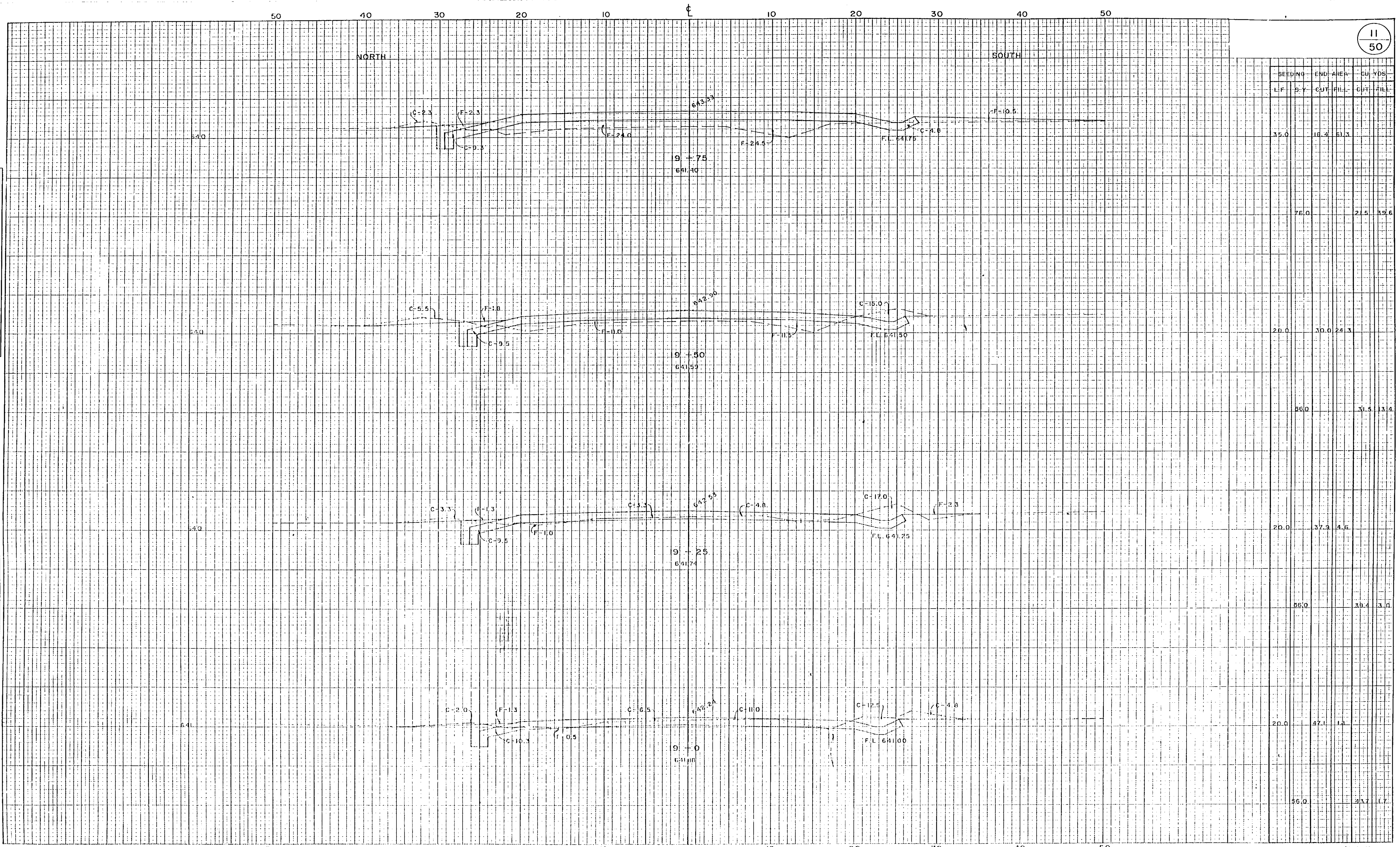
10
50

BEARING	END AREA	CUT	FILL	CUT	FILL
18+50	0	0	0	0	0

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 17+0 TO 18+50

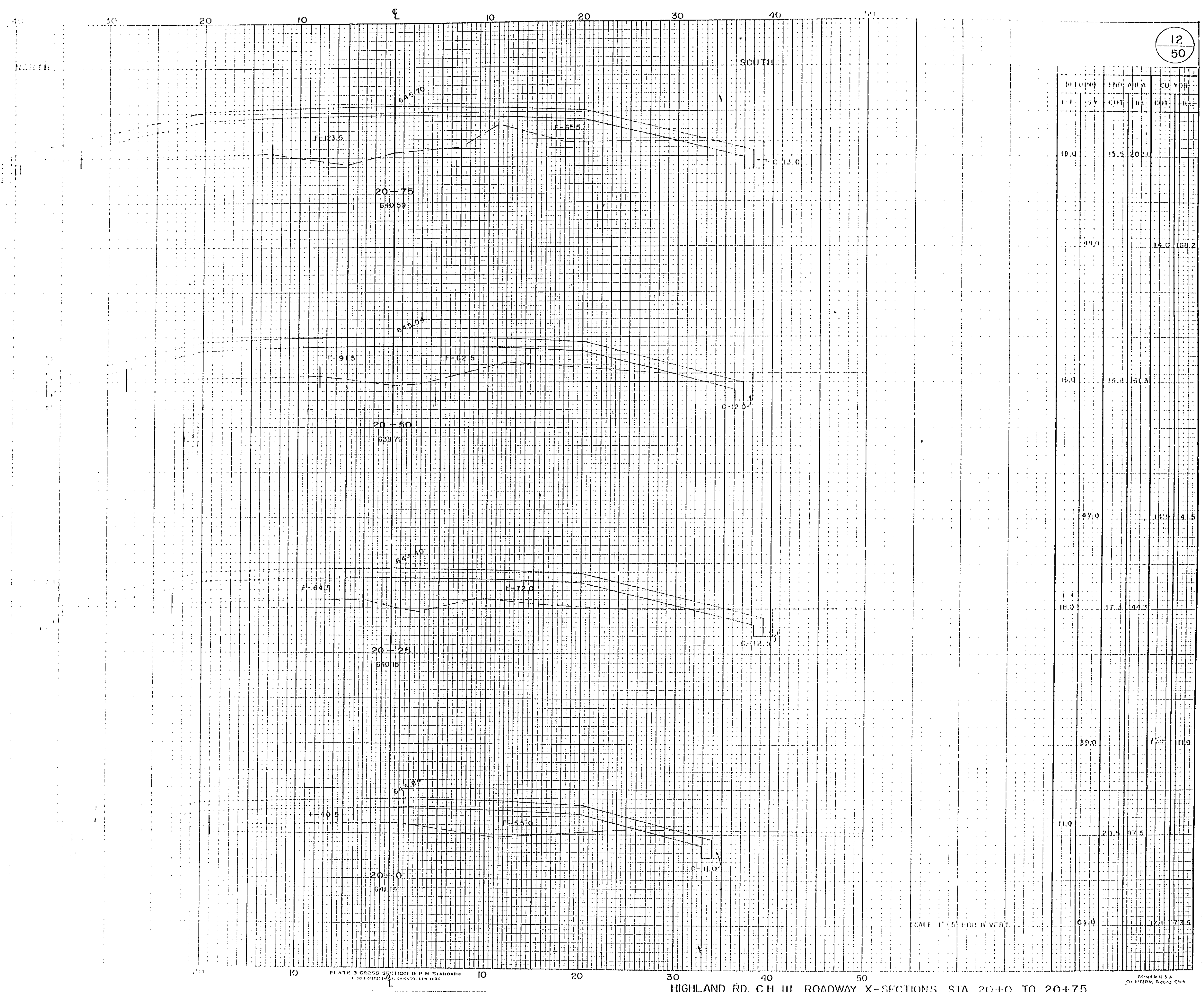
DATE	BY	APPROVED	DATE
FINAL	SURVEY	DATE	BY
NO.	NO.	NO.	NO.

DATE	BY	APPROVED	DATE
ORIGINAL	SURVEY	DATE	BY
NO.	NO.	NO.	NO.



STATION	END AREA	CUT	FILL	CUT	FILL
19+75	35.0	16.4	51.3		
19+50	75.0	2.5	15.6		
19+25	20.0	10.0	24.3		
	55.0	31.5	13.4		
	20.0	37.3	4.6		
	55.0	19.4	3.0		
	20.0	47.1	1.3		
	55.0	33.7	1.7		

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 19+0 TO 19+75



12
50

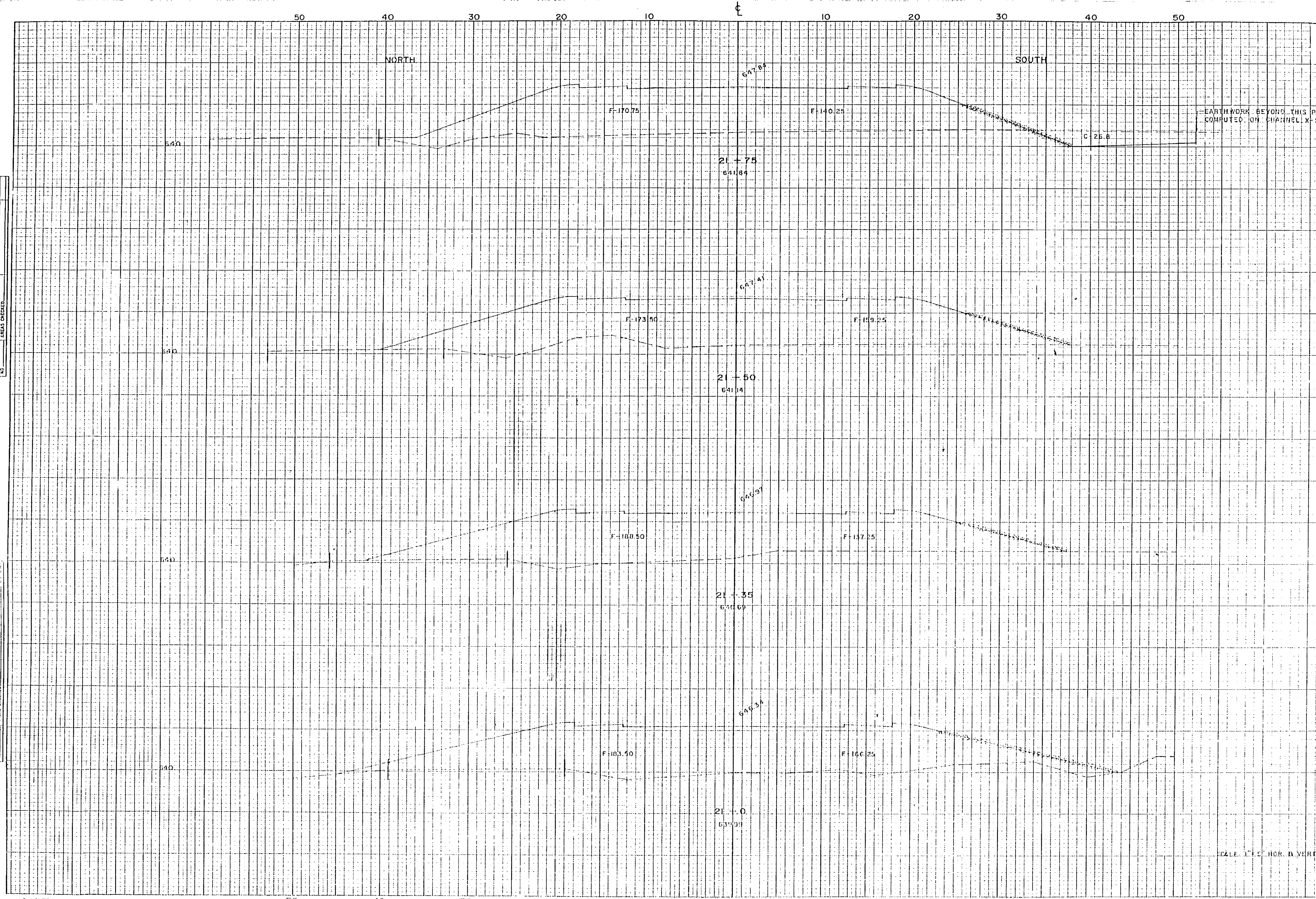
STATION	ELEV. AT C&G	ELEV. AT F&B	C&G CUT	F&B CUT	F&B FILL
20+75	19.0	15.2	20.0		
20+50	49.0		15.0	150.2	
20+25	16.0	16.3	16.3		
20+0	27.0		18.3	41.5	
	18.0	17.3	14.3		
39.0		17.3	11.9		
11.0		20.5	37.5		
61.0			72.1	73.5	

SCALE 1" = 15' FOR VERTICAL

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 20+0 TO 20+75

Printed in U.S.A.
ON INTERNAL Tissue Cloth

SEEDING		END AREA		CU YDS	
I.F.	S.Y.	CUT	FILL	CUT	FILL
60.0		26.8	311.0		
140.0			12.4	296.0	
45.0		0	332.74		
76.0			0	18.9	
46.0		0	325.8		
126.0			0	432.8	
55.0		0	343.8		
103.0			7.2	255.5	

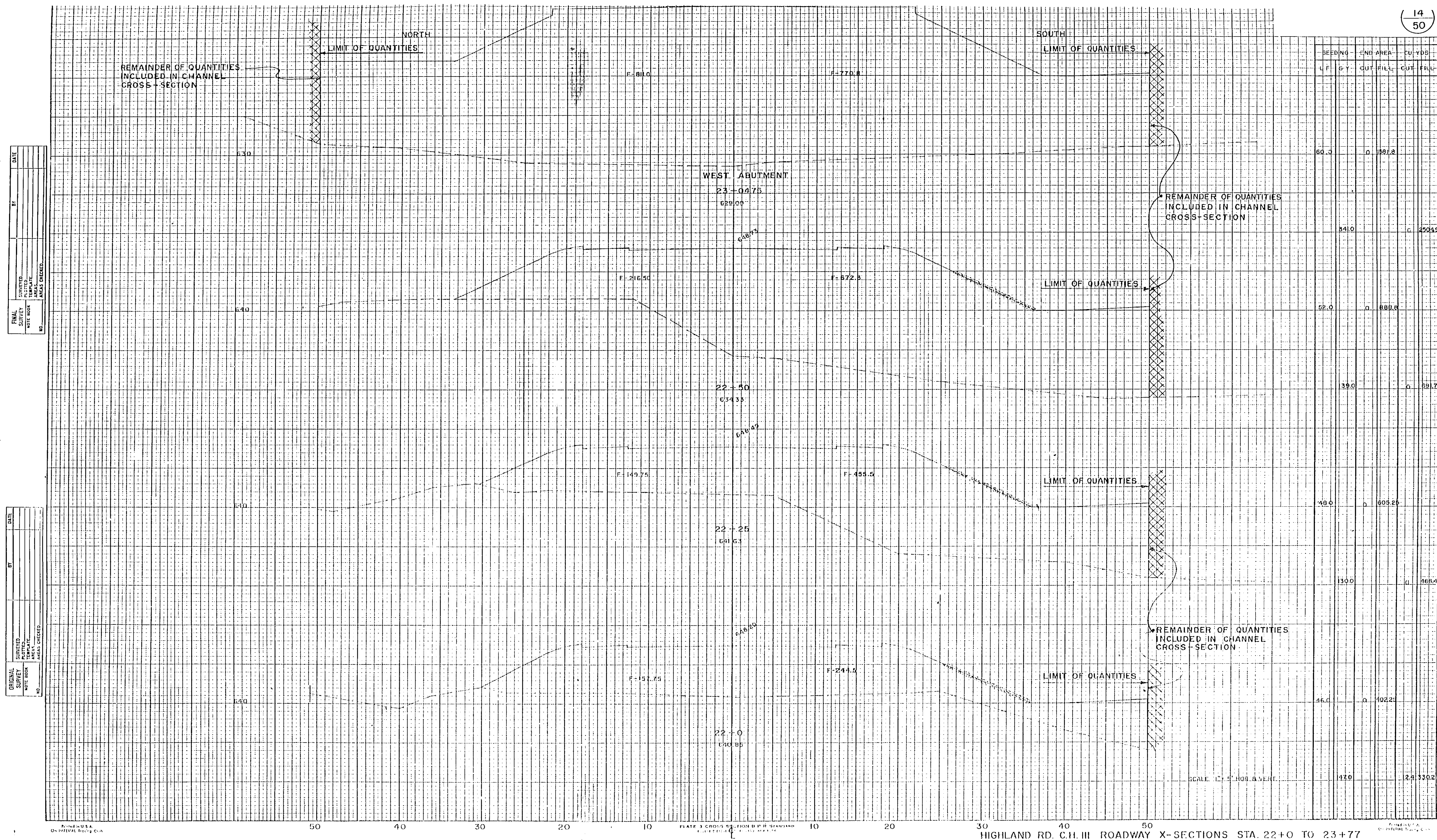


SCALE 1"=10' HOR. 1"=1' VERT.

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 21+0 TO 21+75

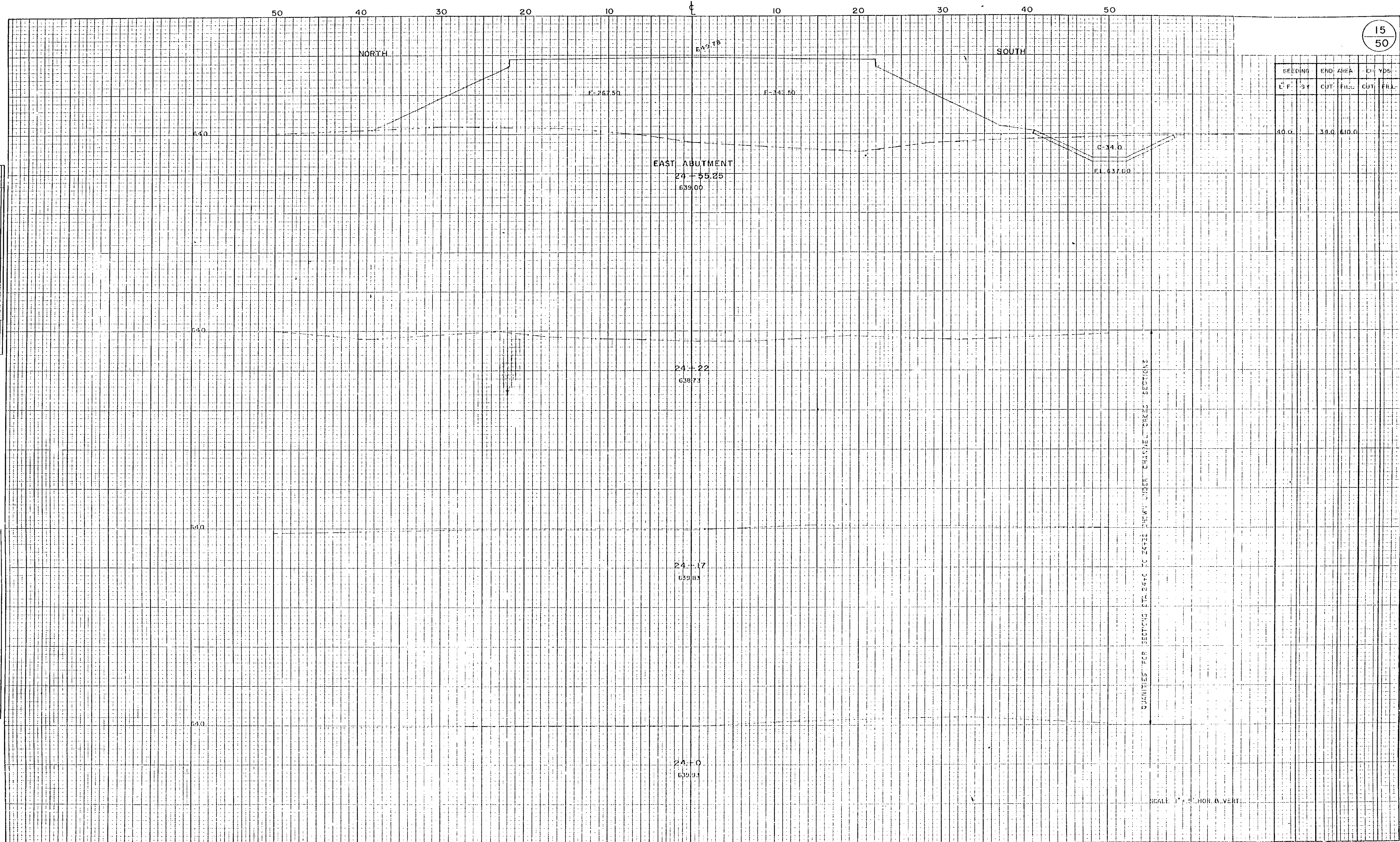
FINAL SURVEY	SURVEY	BY	DATE
NOTE BOOK	PLANT		
NO.	AREA CHECKED		

ORIGINAL SURVEY	SURVEY	BY	DATE
NOTE BOOK	PLANT		
NO.	AREA CHECKED		



FINAL SURVEY	SURVEY PLOTTER	DATE
NOTE BOOK	TEMPERATURE	
NO.	AREAS CHECKED	

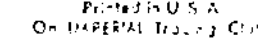
ORIGINAL SURVEY	SURVEY PLOTTER	DATE
NOTE BOOK	TEMPERATURE	
NO.	AREAS CHECKED	

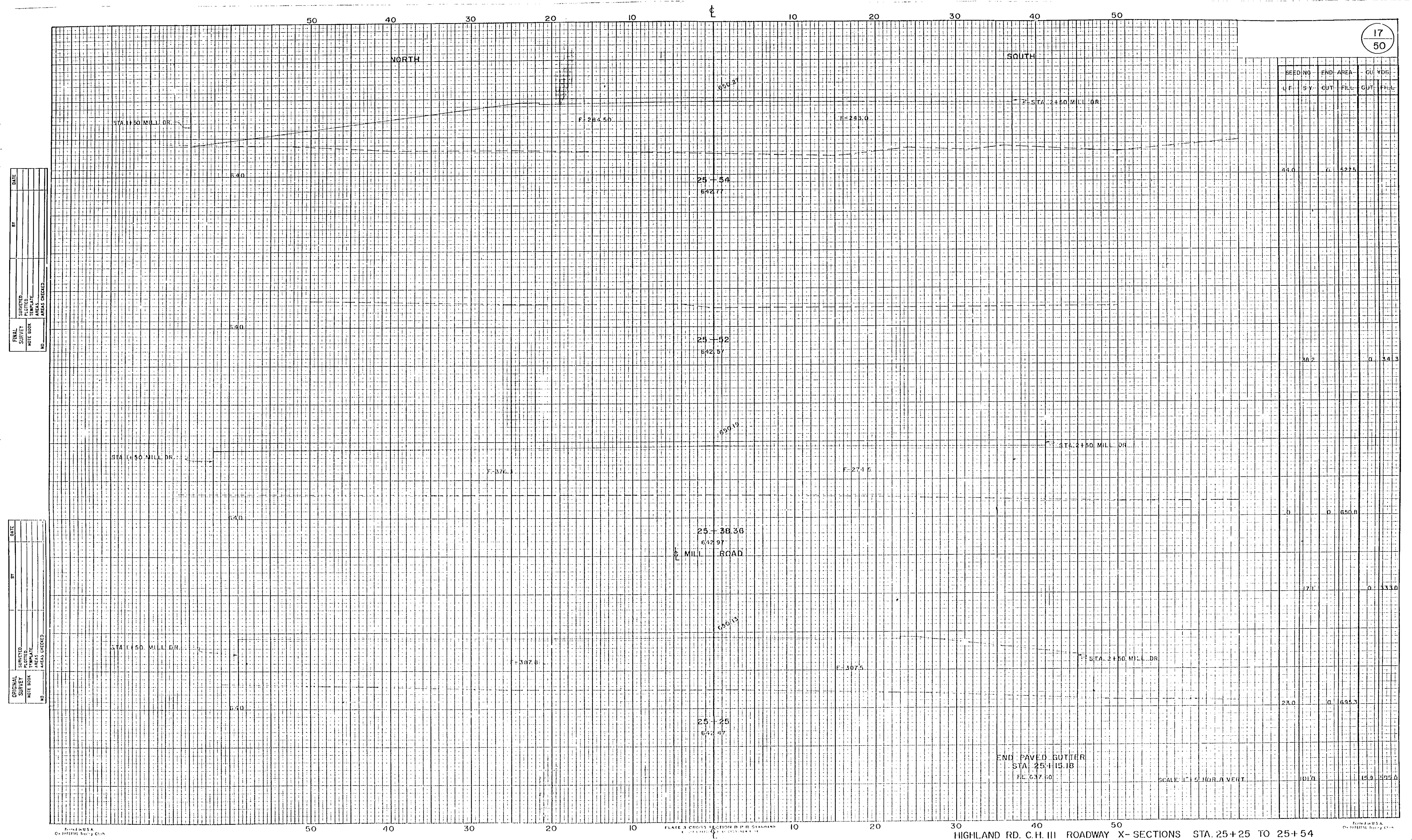


BEEDING		END AREA		CUT YDS.	
L.F.	ST.	CUT	FILL	CUT	FILL
40.0		38.0	610.0		

15
50

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 24+0 TO 24+57





SEEDING	END AREA	CUT VDS
U.F.	CUT FULL	CUT FULL
40.0	62.0	232.5
37.4		64.0
		143.8
40.0	111.5	169.8
36.0		97.1
		31.5
50.0	45.0	0
40.9		95.0
17.0	55.6	0
32.7		25.8

NO.	FINAL SURVEY	BY	DATE
	NOTE BOOK		
	SURVEYED		
	PLOTTED		
	TEMPERATURE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	TELEPHONE		
	ADDRESS		
NO. _____	AREAS CHECKED _____		

Printed in U.S.A.
On IMPERIAL Tracing Cloth

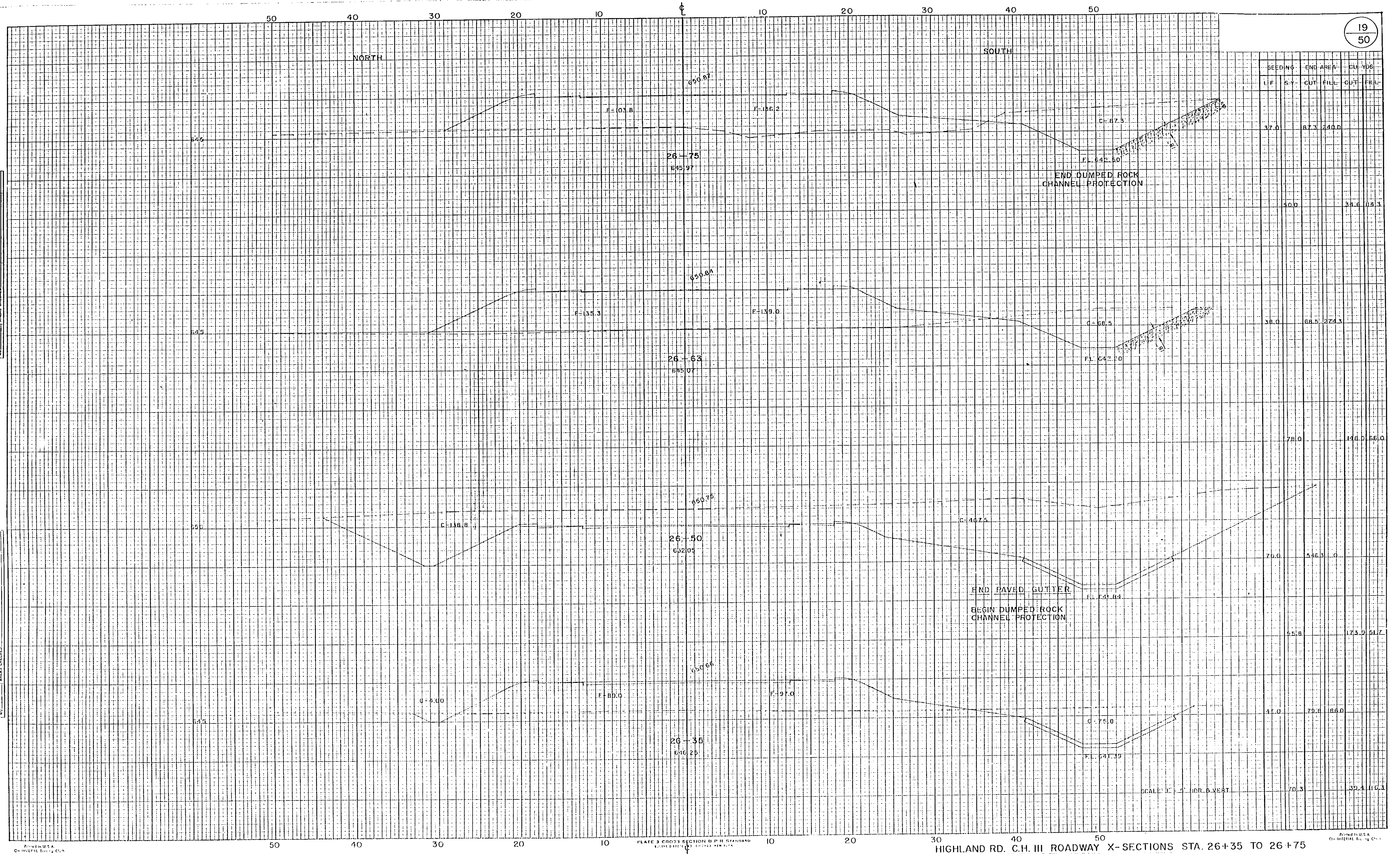
PLATE 3 CROSS SECTION B P R STANDARD
ECCENTRICITY .0000000000000000

30 40 50 0+
HIGHLAND RD. C.H.III ROADWAY X-SECTIONS STA.25+79 TO 26+20.11

Printed in U.S.A.
On IMPERIAL Tearing Cloth

DATE	BY	REVIEWED	DATE
SURVEY		NOTED	
AREA		AREA	
AREA		AREA	

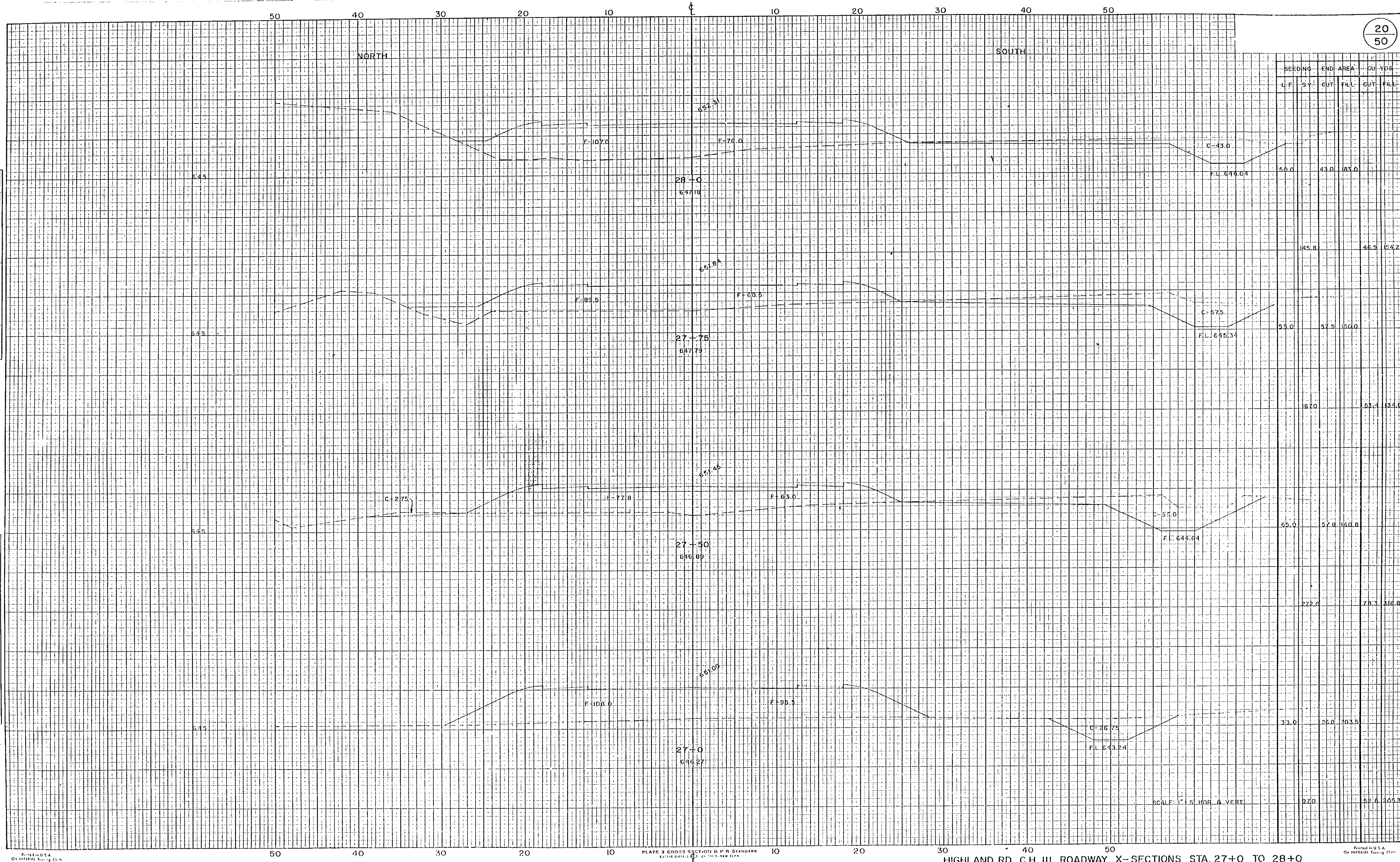
DATE	BY	REVIEWED	DATE
SURVEY		NOTED	
AREA		AREA	
AREA		AREA	



SEEDING		END AREA		CUT YDS	
L.F.	S.Y.	CUT	FILL	CUT	FILL
37.0		87.3	440.0		
40.0			38.6	115.1	
38.0		68.5	274.3		
70.0			146.0	56.0	
70.0		56.3	0		
95.8			173.9	51.7	
41.0		79.0	85.0		
70.3			39.4	110.3	

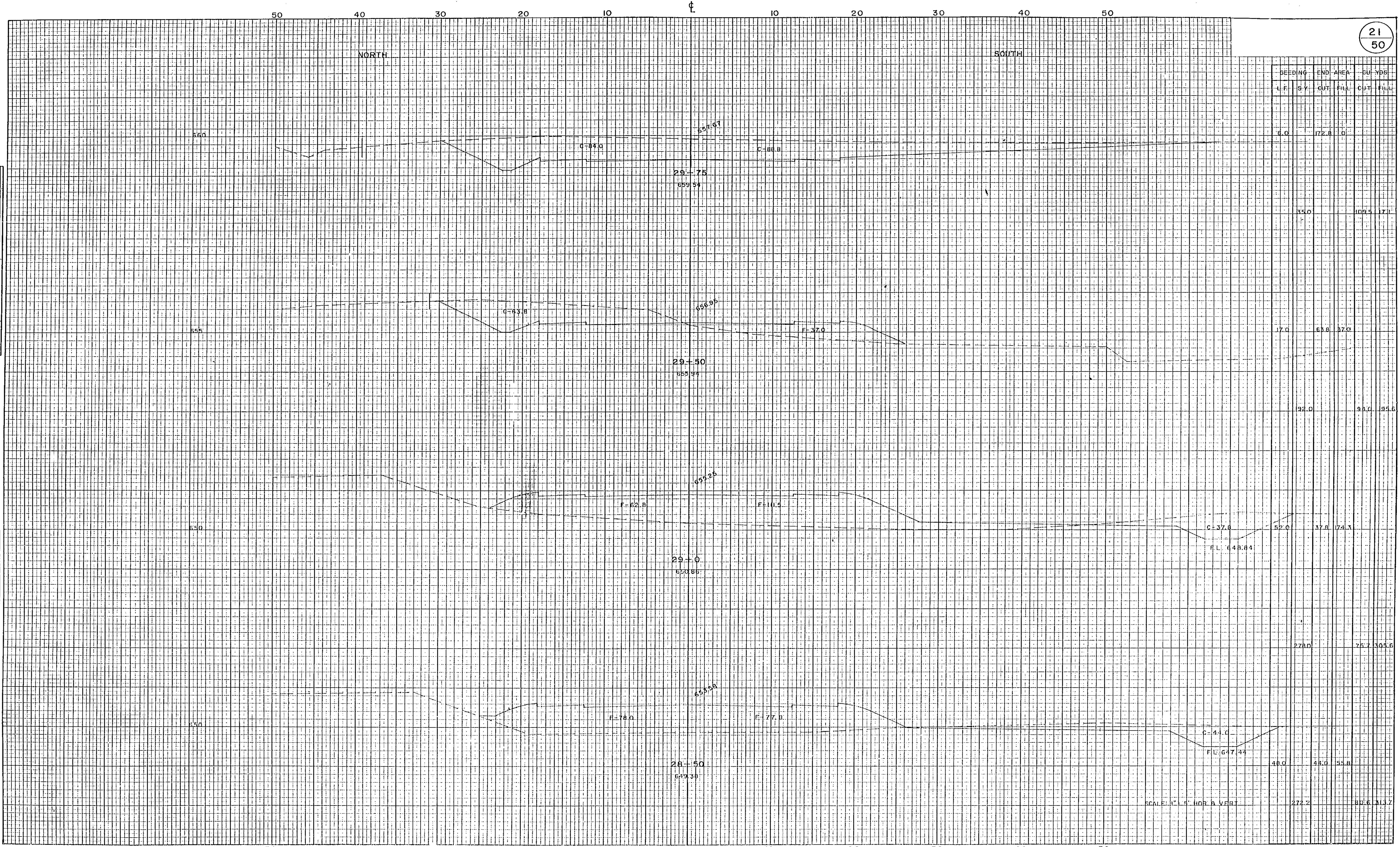
DATE	BY	DATE	BY
ORIGINAL SURVEY	SURVEYED	PLOTTED	CHECKED
NOTE BOOK	DATE	DATE	DATE
NO.			

DATE	BY	DATE	BY
ORIGINAL SURVEY	SURVEYED	PLOTTED	CHECKED
NOTE BOOK	DATE	DATE	DATE
NO.			



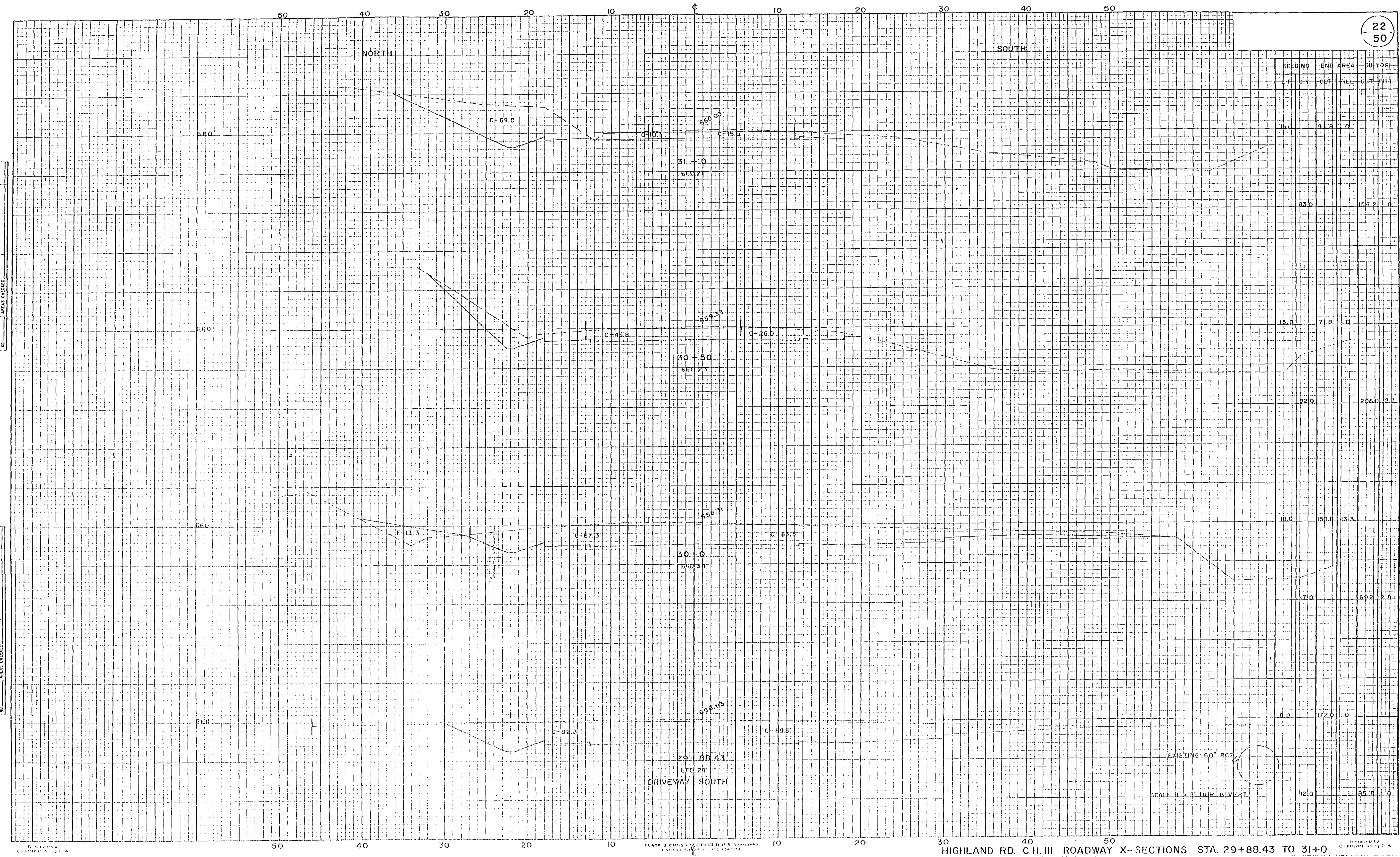
DATE	BY	SURVEY	NOTED	DATE

DATE	BY	SURVEY	NOTED	DATE



DATE	
BY	
PROJECT	
NOTED	
APPROVED	
DATE	

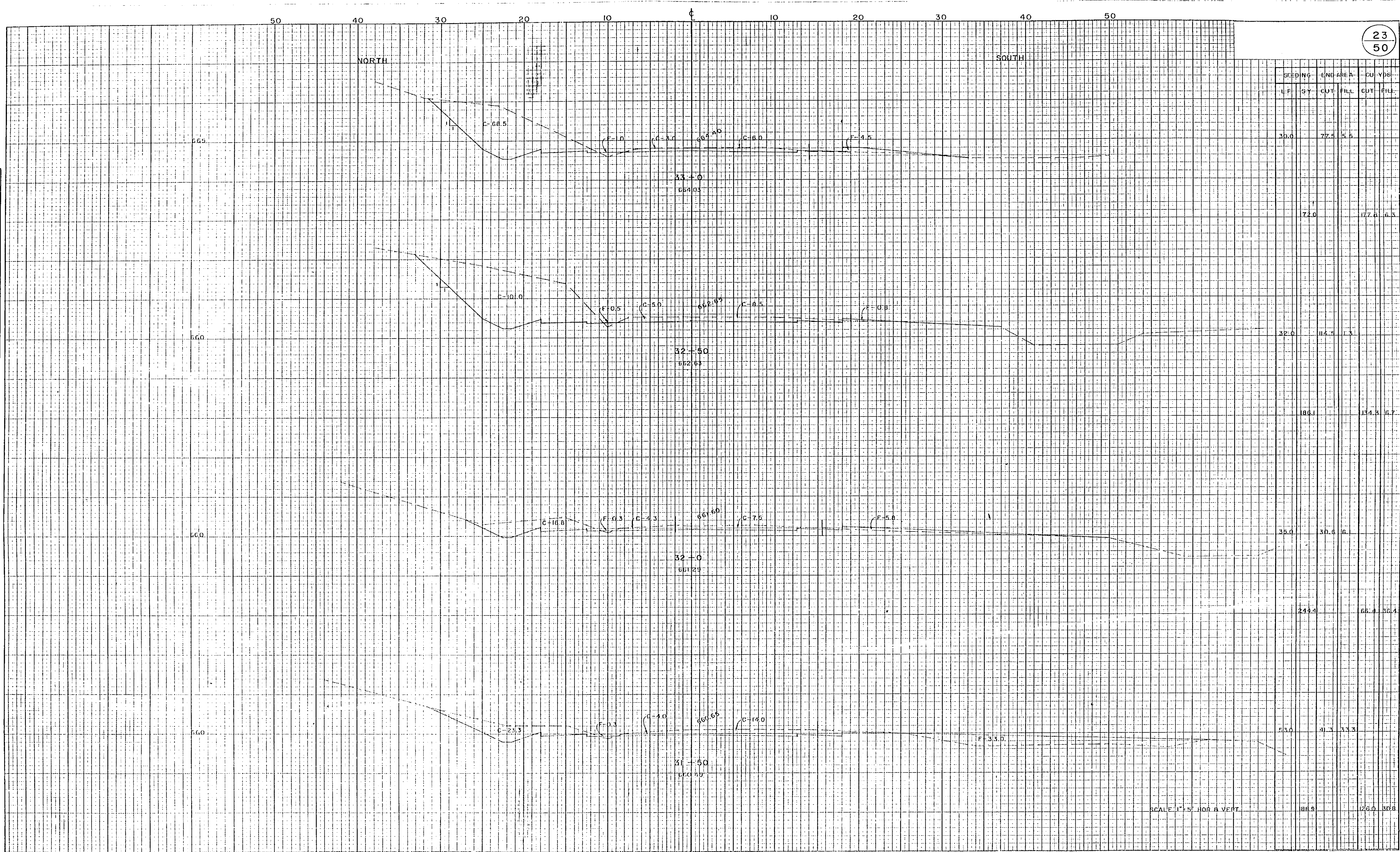
DATE	
BY	
PROJECT	
NOTED	
APPROVED	
DATE	



SEEDING		END AREA		CUT YOE	
L.F.	S.Y.	CUT	FILL	CUT	FILL
15.0	94.8	0			
83.0	154.2	0			
15.0	71.8	0			
82.0	206.0	2.1			
10.0	150.8	13.3			
17.0	60.2	2.8			
6.0	172.0	0			
12.0	85.8	0			

FINAL	SURVEY	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

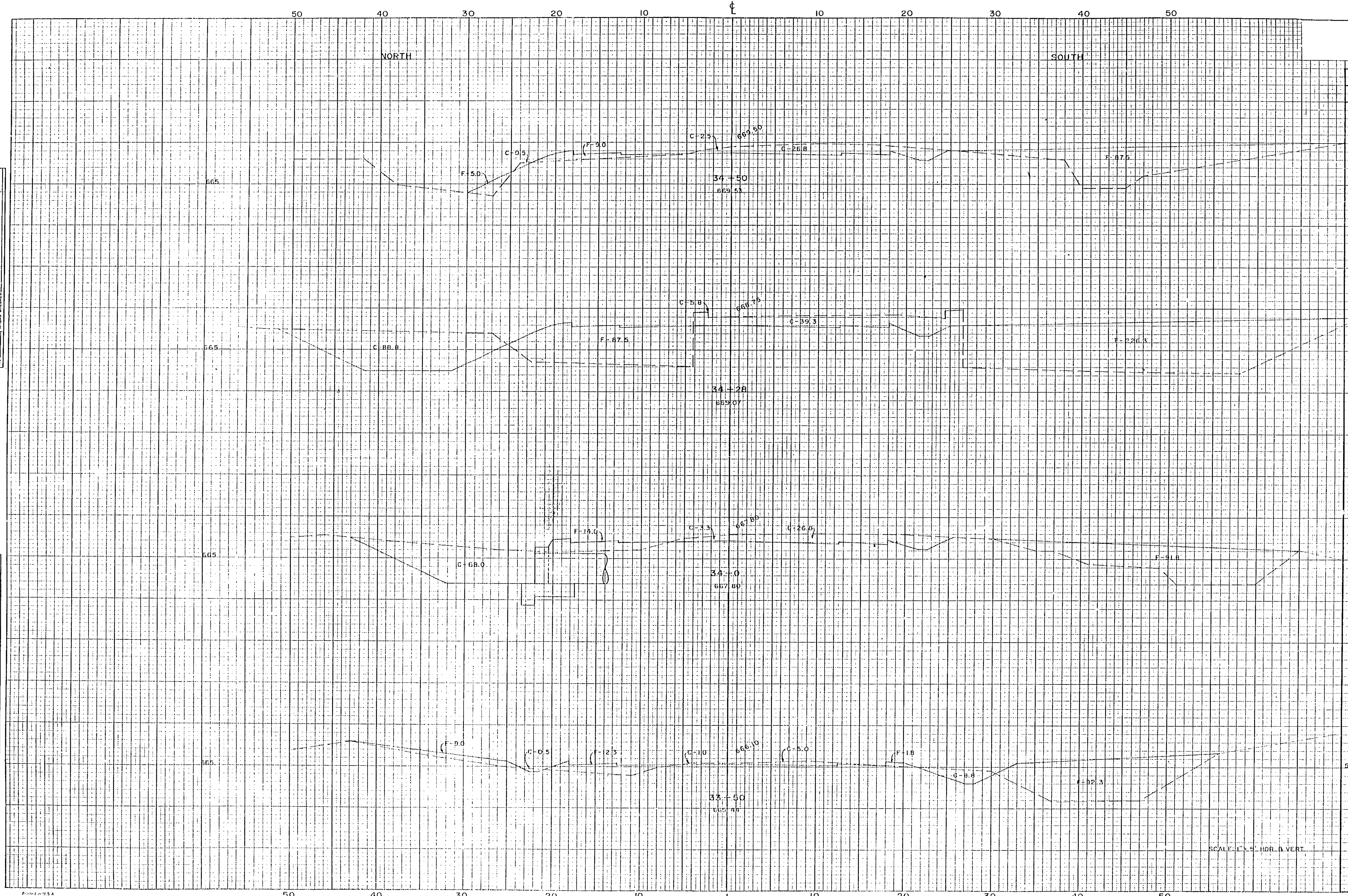
ORIGINAL	SURVEY	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



SCALE 1"=5' HOR & VERT.

HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 31+50 TO 33+0

SEEDING	EMB. AREA	SU. YDS.
1. FILL	2. CUT	3. FILL

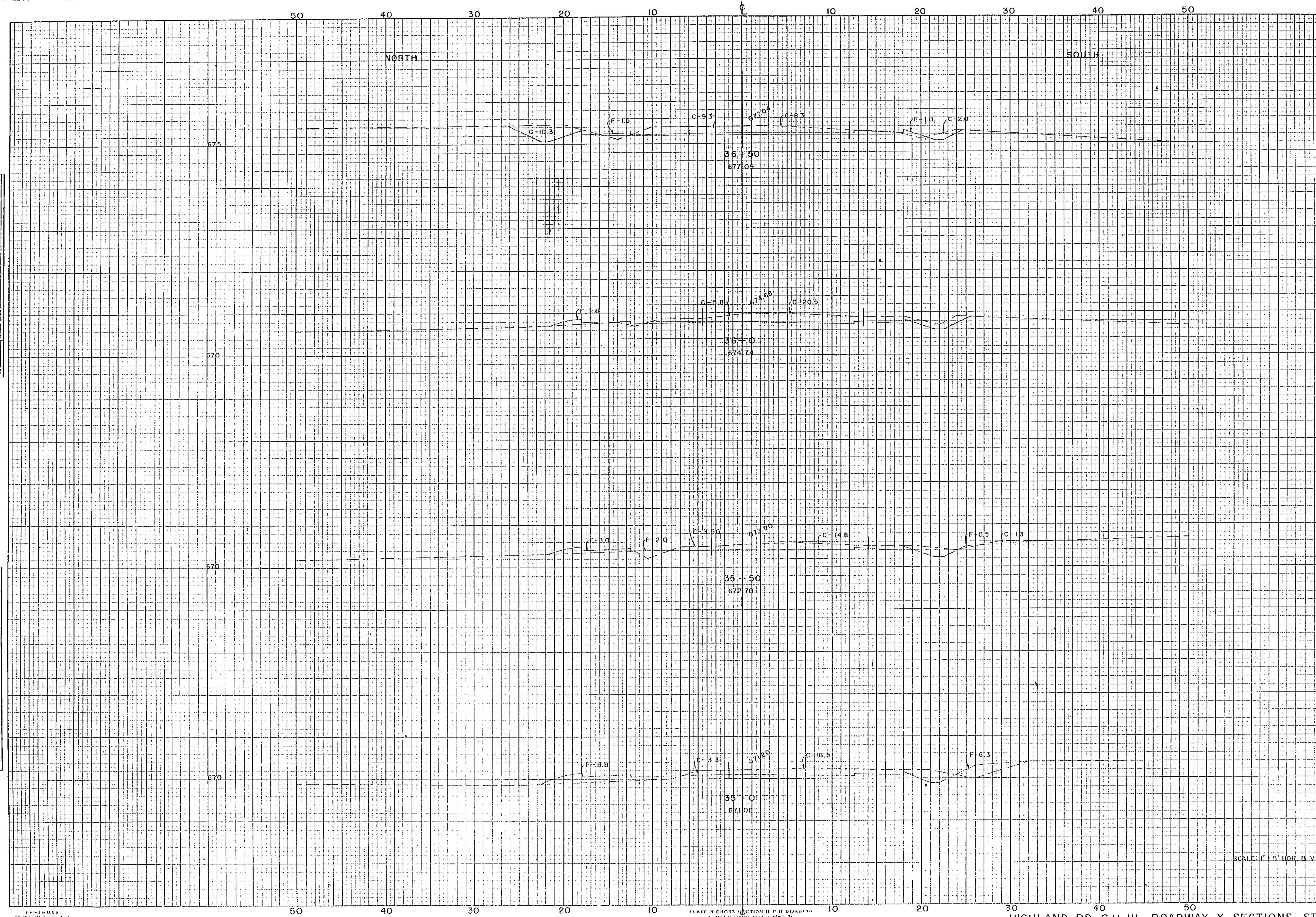


SEEDING	EMB. AREA	SU. YDS.
1. FILL	2. CUT	3. FILL
600.0	29.8	101.5
177.0		66.6
85.0	171.8	113.8
98.0		120.2
42.0	98.1	105.8
262.0		105.0
55.0	15.3	115.3
235.0		85.9

DATE: _____ BY: _____
SURVEYED: _____
NOTED: _____
CHECKED: _____
NO. _____

DATE: _____ BY: _____
SURVEYED: _____
NOTED: _____
CHECKED: _____
NO. _____

SEEDING		CUT AREA		CU YDS	
LF	SY	CUT	FILL	CUT	FILL



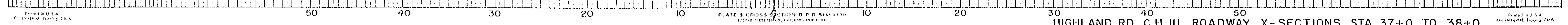
SEEDING		CUT AREA		CU YDS	
LF	SY	CUT	FILL	CUT	FILL
4.0		29.6	2.5		
25.0			5.9	1.4	
5.0		26.3	2.8		
56.0			42.4	7.5	
15.0		19.5	5.5		
75.0			38.2	19.0	
12.0		21.8	15.0		
200.0			47.7	107.9	

DATE	BY
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO	AREAS CHECKED

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO	AREAS CHECKED

SEEDING	END AREA	SU-YDS
0.5	CUT-FILL	FILL-FILL

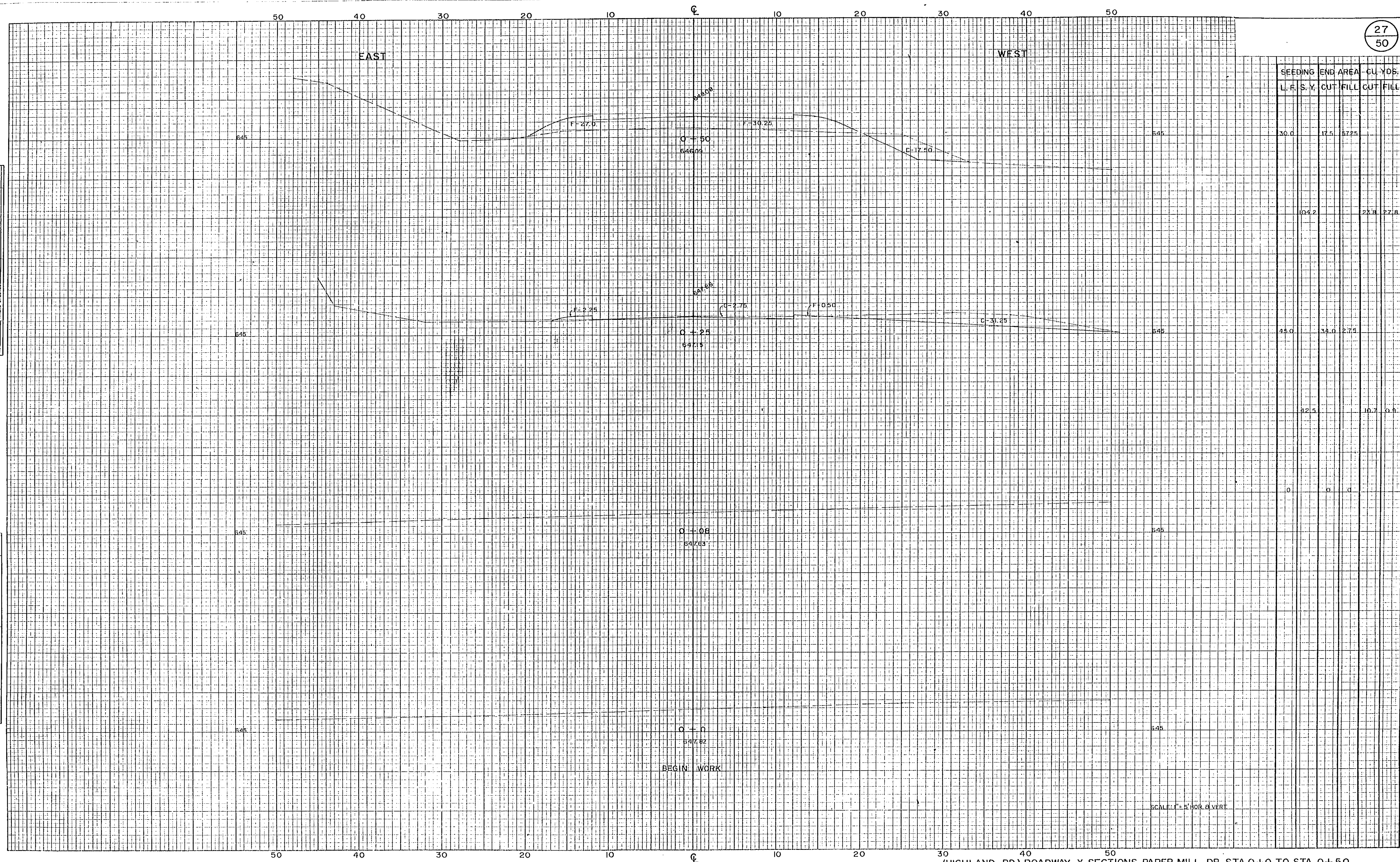
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO.			



30 40 50
HIGHLAND RD. C.H. III ROADWAY X-SECTIONS STA. 37+0 TO 38+0

FINAL SURVEY NOTE BOOK	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY			
NOTE BOOK			
	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		
NO		EY	DATE



(HIGHLAND RD.) ROADWAY X SECTIONS PAPER MILL DR. STA.0+0 TO STA.0+50

SEEDING END AREA - CU. YDS.					
L	R	S.Y.	CUT	FILL	CUT FILL

34.0	0	402.5			
------	---	-------	--	--	--

43.0	0	518.0			
------	---	-------	--	--	--

244.0	6.5	497.7			
-------	-----	-------	--	--	--

45.0	7.0	219.5			
------	-----	-------	--	--	--

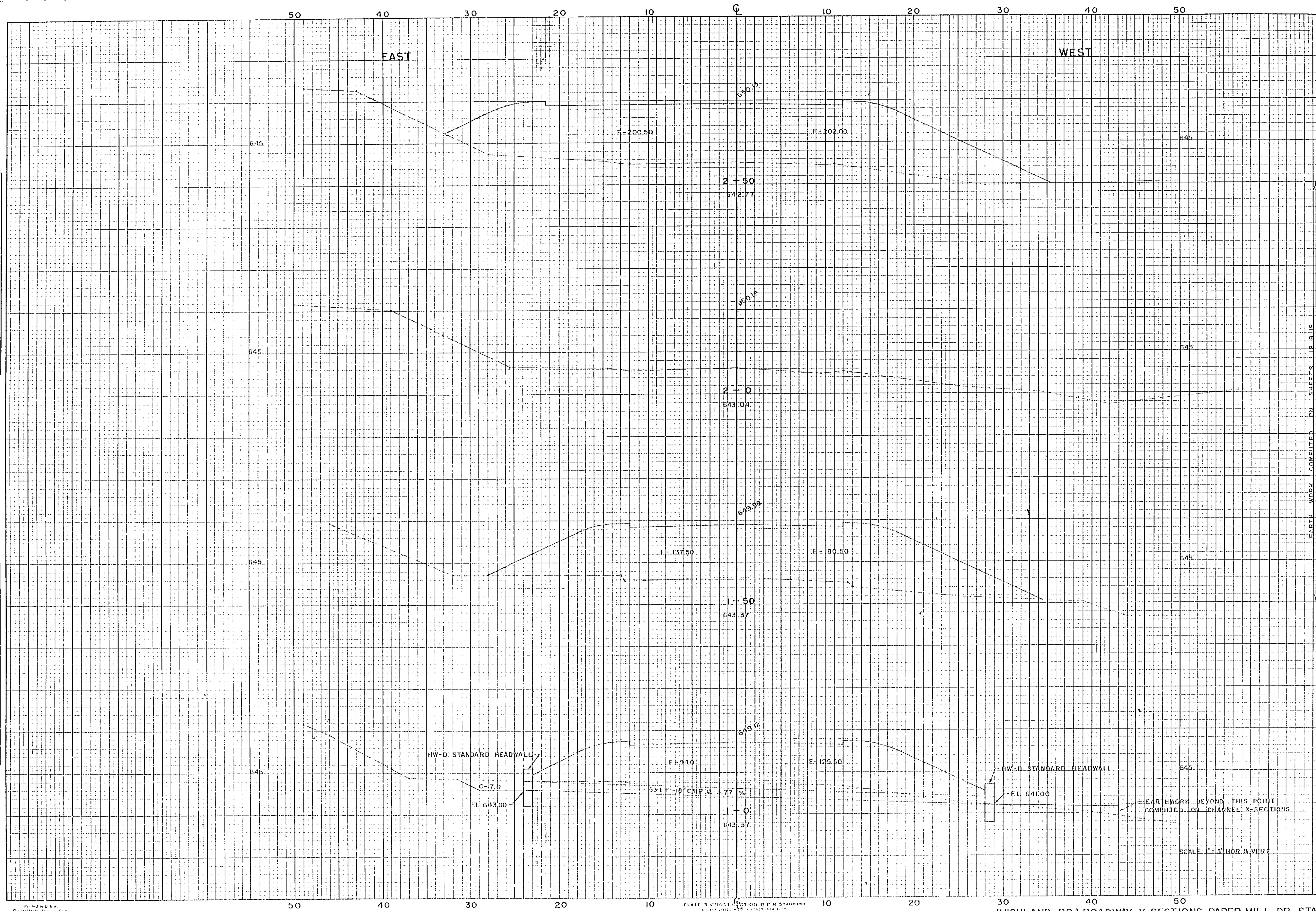
208.0	22.7	256.2			
-------	------	-------	--	--	--

EARTH WORK COMPILED ON SHEETS 28 & 29

EARTHWORK BEYOND THIS POINT
COMPUTED ON CHANNEL X-SECTIONS

SCALE: 1"=5' HOR. & VERT.

(HIGHLAND RD.) ROADWAY X SECTIONS PAPER MILL DR. STA. 1+0 TO STA. 2+50

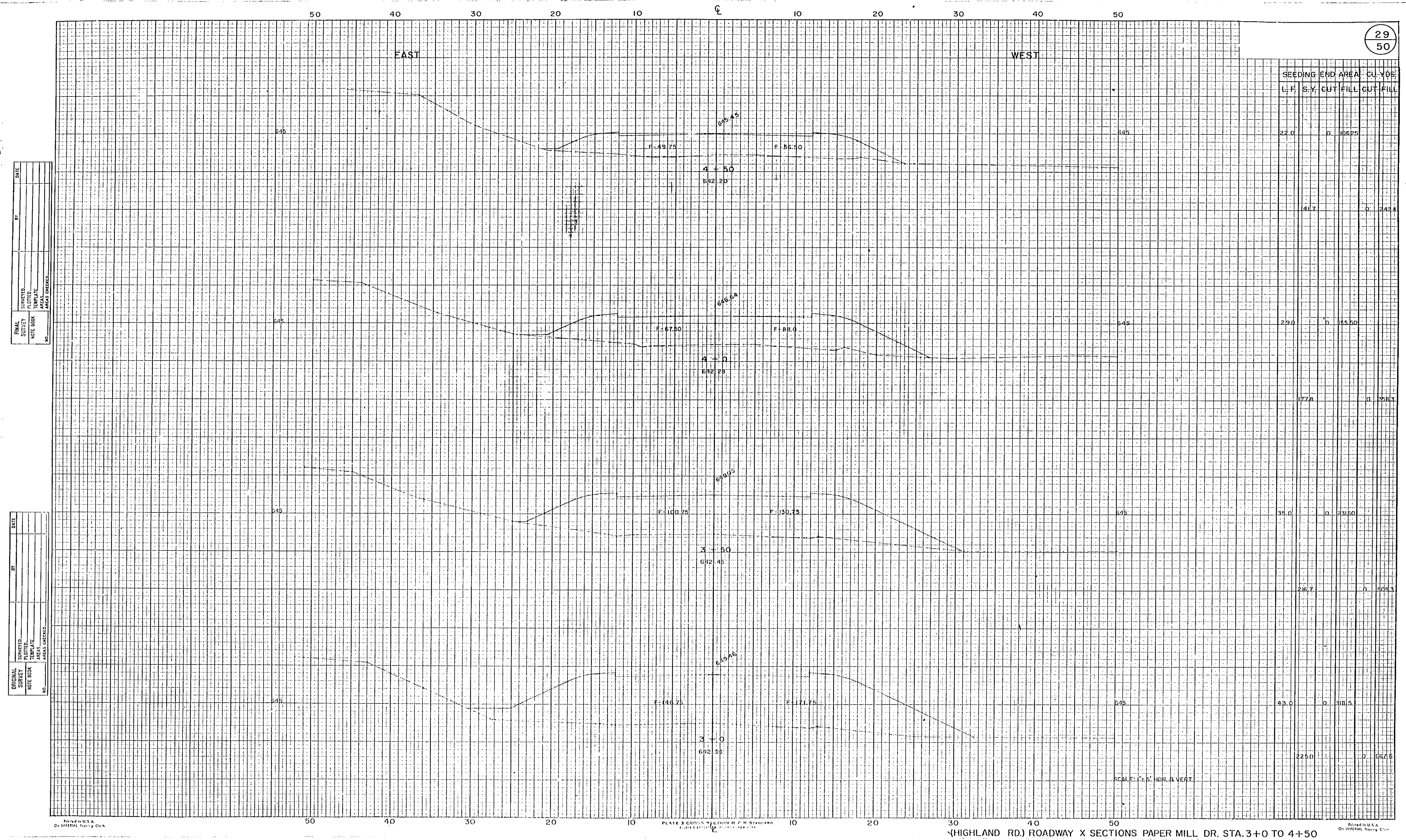


Printed in U.S.A.
On Western Union Co.

PLATE X CROSS SECTION R.P.R. STANDARD
C-7.0

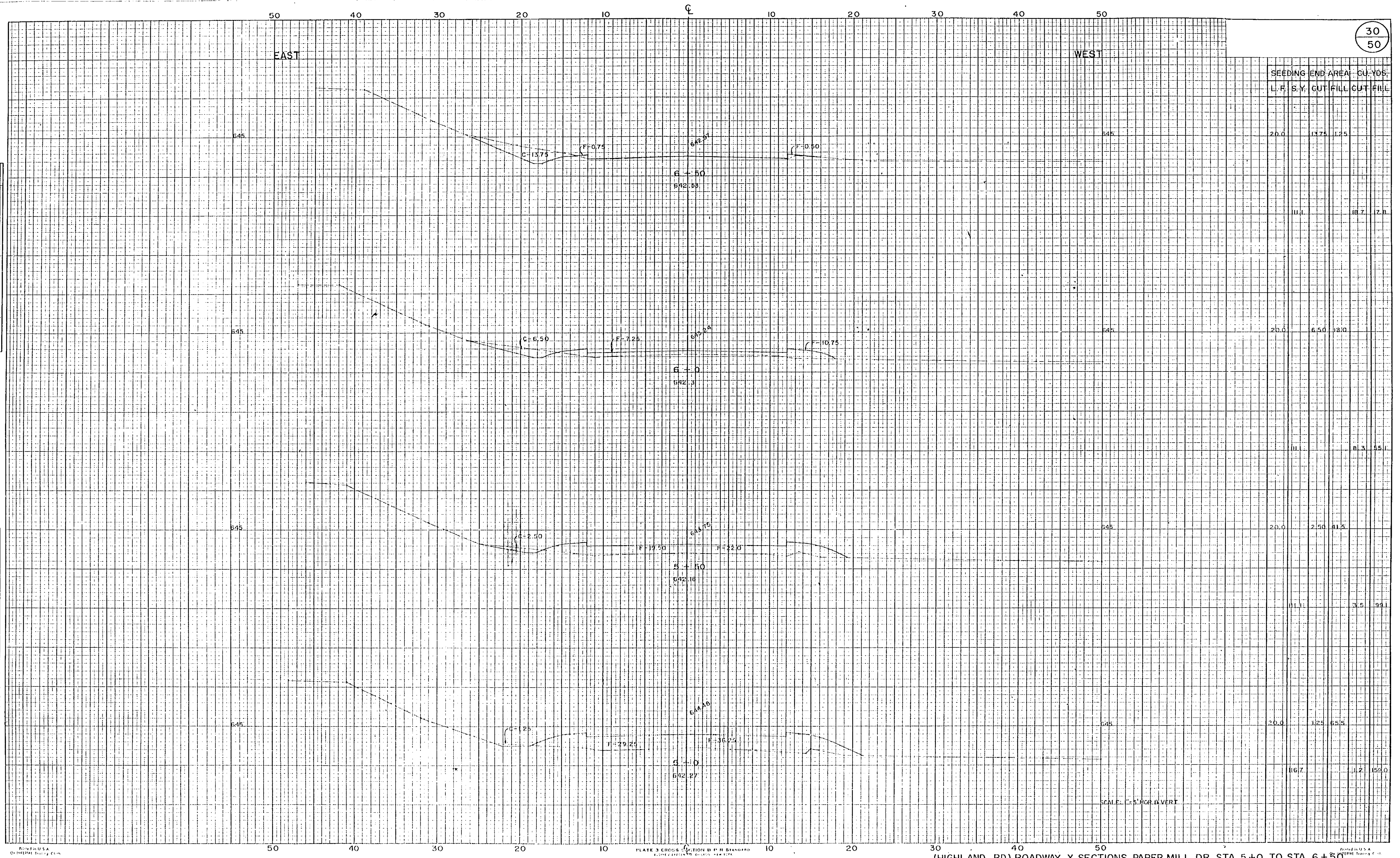
DATE	BY	DATE	BY
SURVEYED		SURVEYED	
NOTE BOOK		NOTE BOOK	
TEMP. PLATE		TEMP. PLATE	
AREAS CHECKED		AREAS CHECKED	
NO.		NO.	

DATE	BY	DATE	BY
SURVEYED		SURVEYED	
NOTE BOOK		NOTE BOOK	
TEMP. PLATE		TEMP. PLATE	
AREAS CHECKED		AREAS CHECKED	
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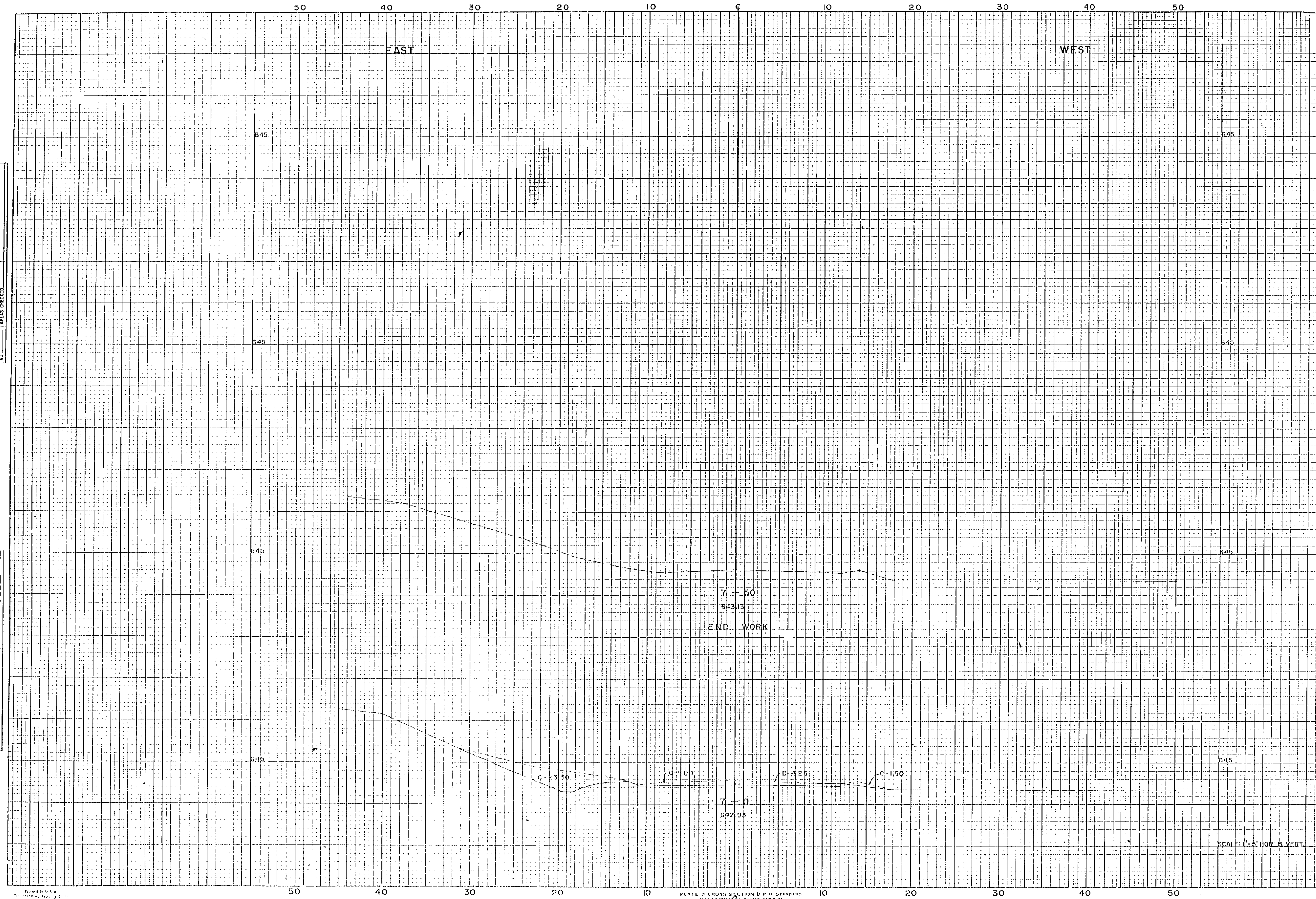
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NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED PLOTTER	DATE
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	



(HIGHLAND RD.) ROADWAY X SECTIONS PAPER MILL DR. STA. 5+0 TO STA. 6+50

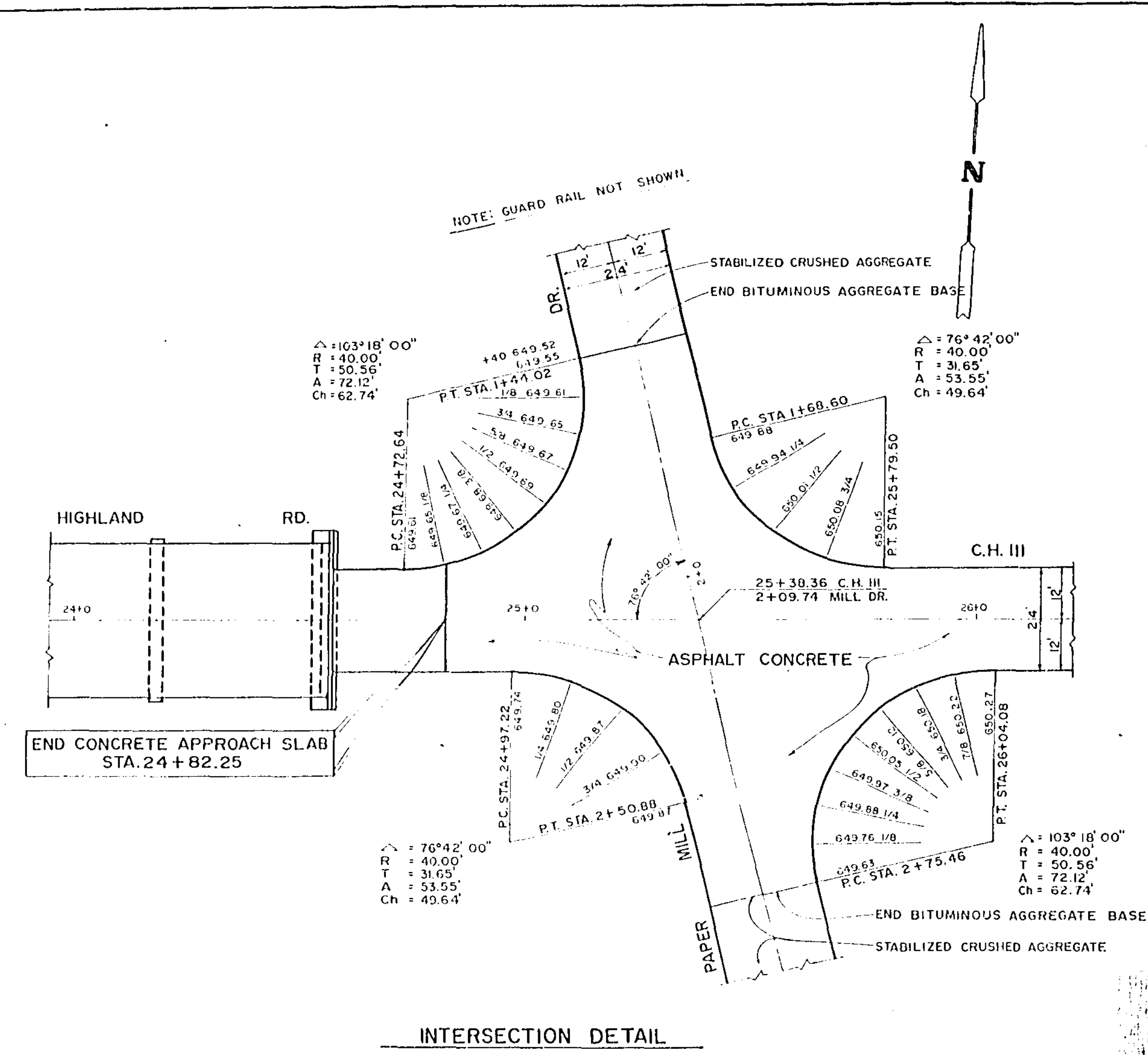
SEEDING END AREA - CU YDS.
L.F. S.Y. CUT FILL CUT FILL



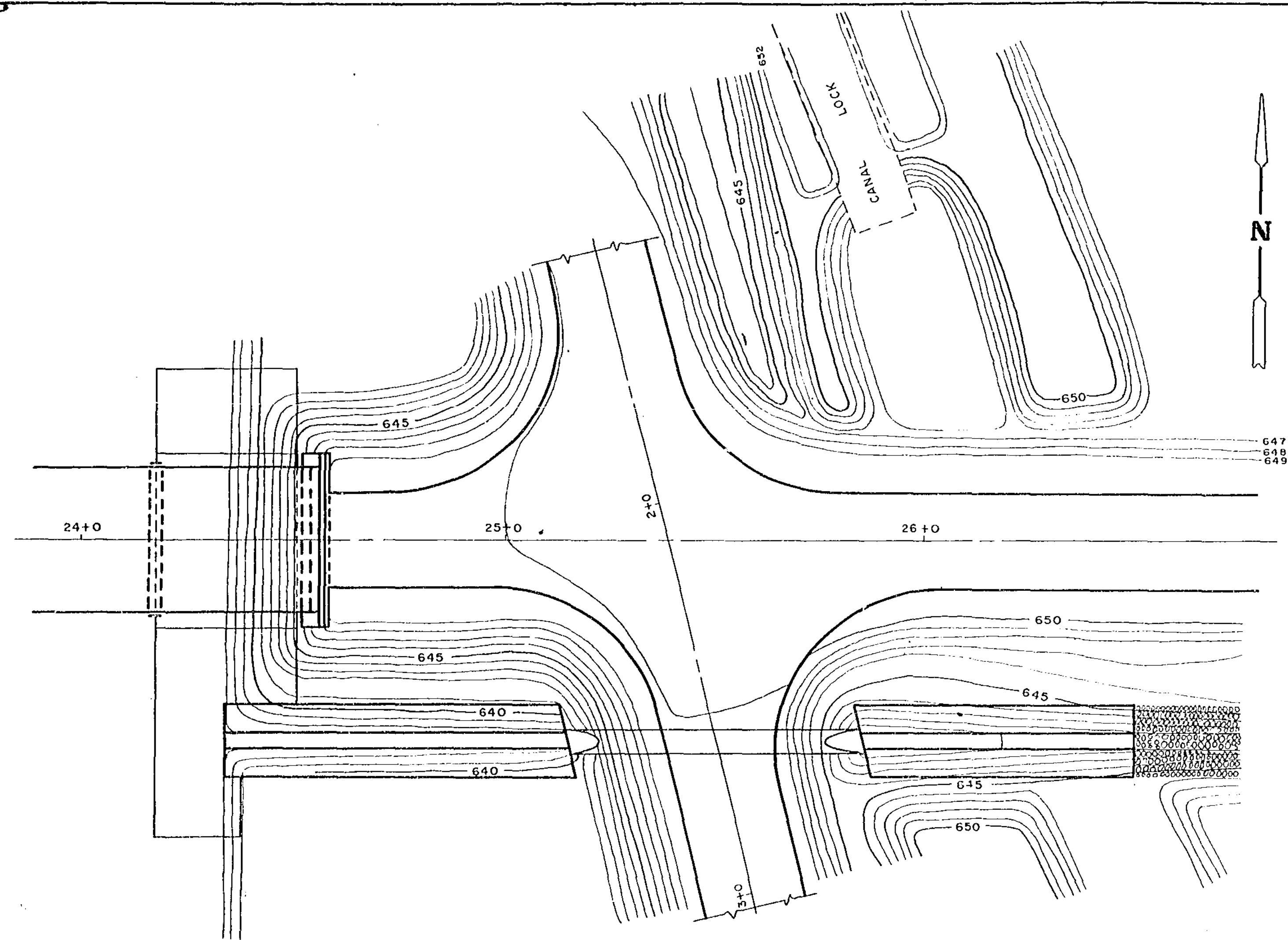
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DATE	BY	REVISION	DATE
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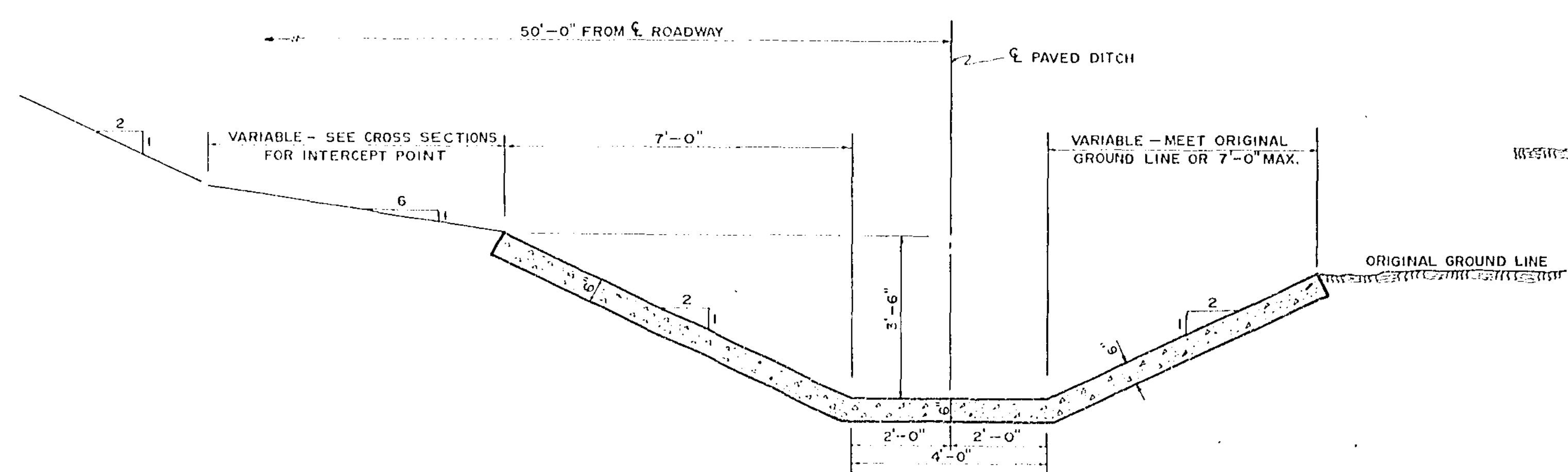
(HIGHLAND RD.) ROADWAY X SECTIONS PAPER MILL DR. STA. 7+00 TO 7+50



INTERSECTION DETAIL

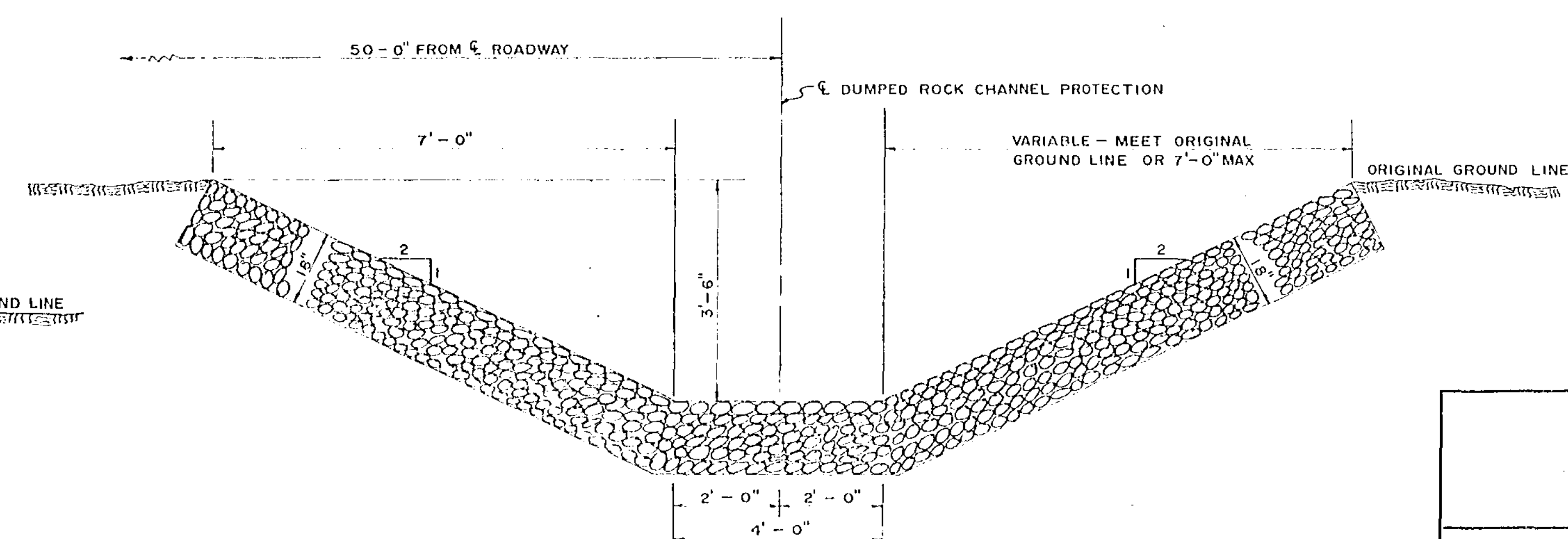


INTERSECTION GRADING PLAN



TYPICAL SECTION
PAVED GUTTER

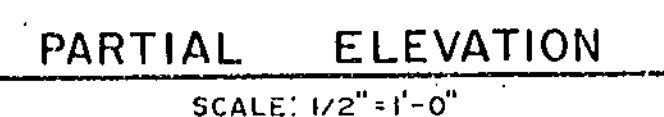
SCALE 1/2" = 1'-0"
LIMITING STATIONS
STA 24+34 TO STA 25+15.18
STA 25+65.18 TO STA 26+50



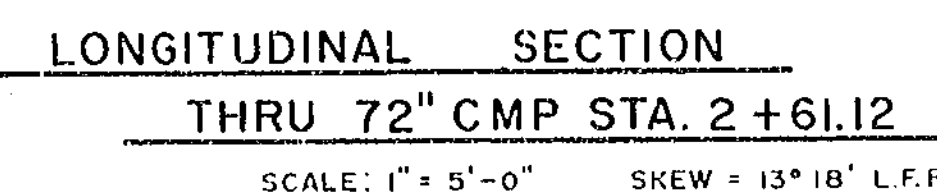
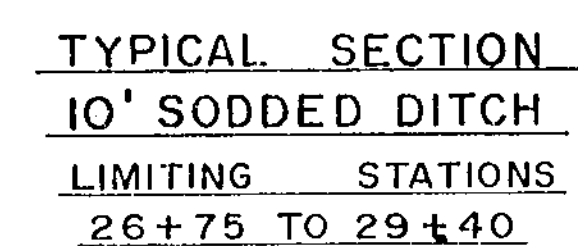
TYPICAL SECTION
DUMPED ROCK CHANNEL PROTECTION

SCALE 1/2" = 1'-0"
LIMITING STATIONS
26+50 TO 26+75

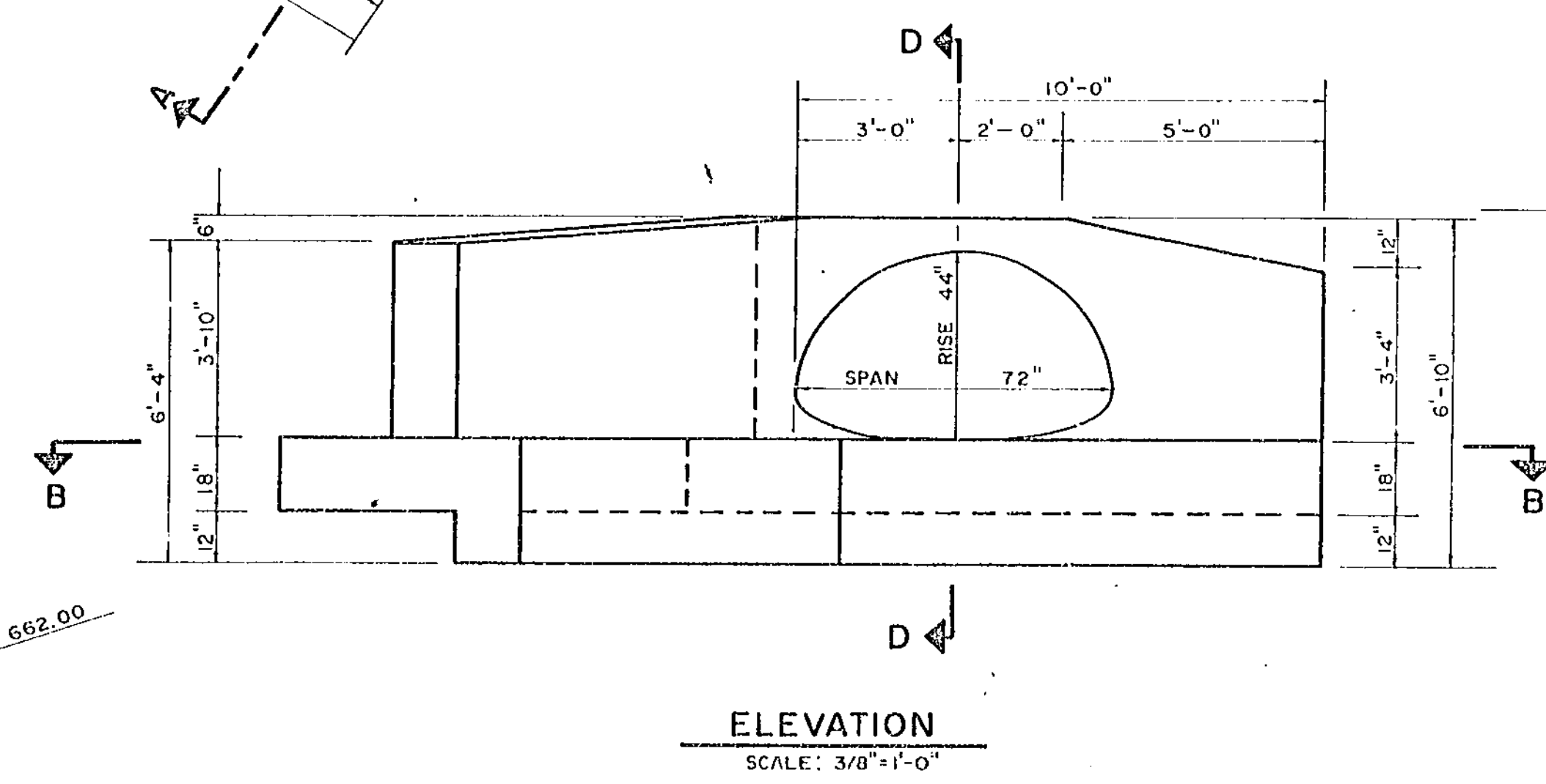
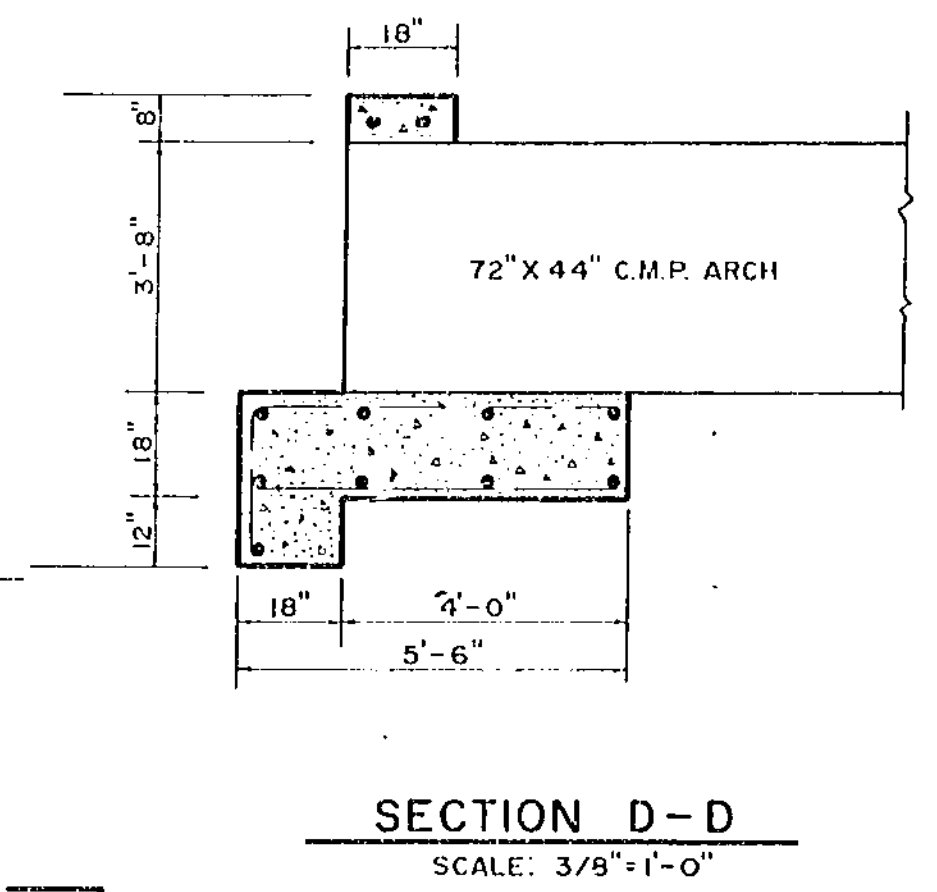
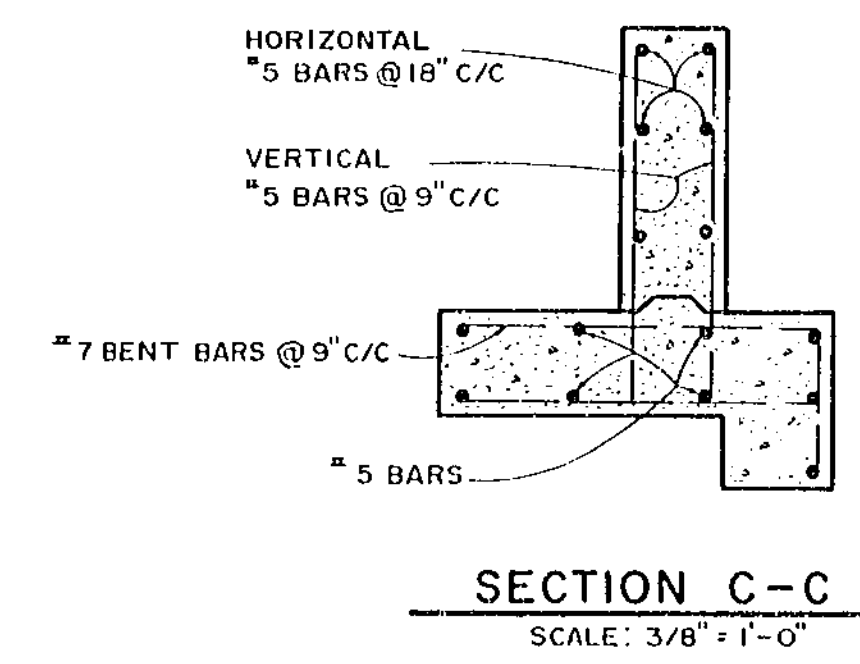
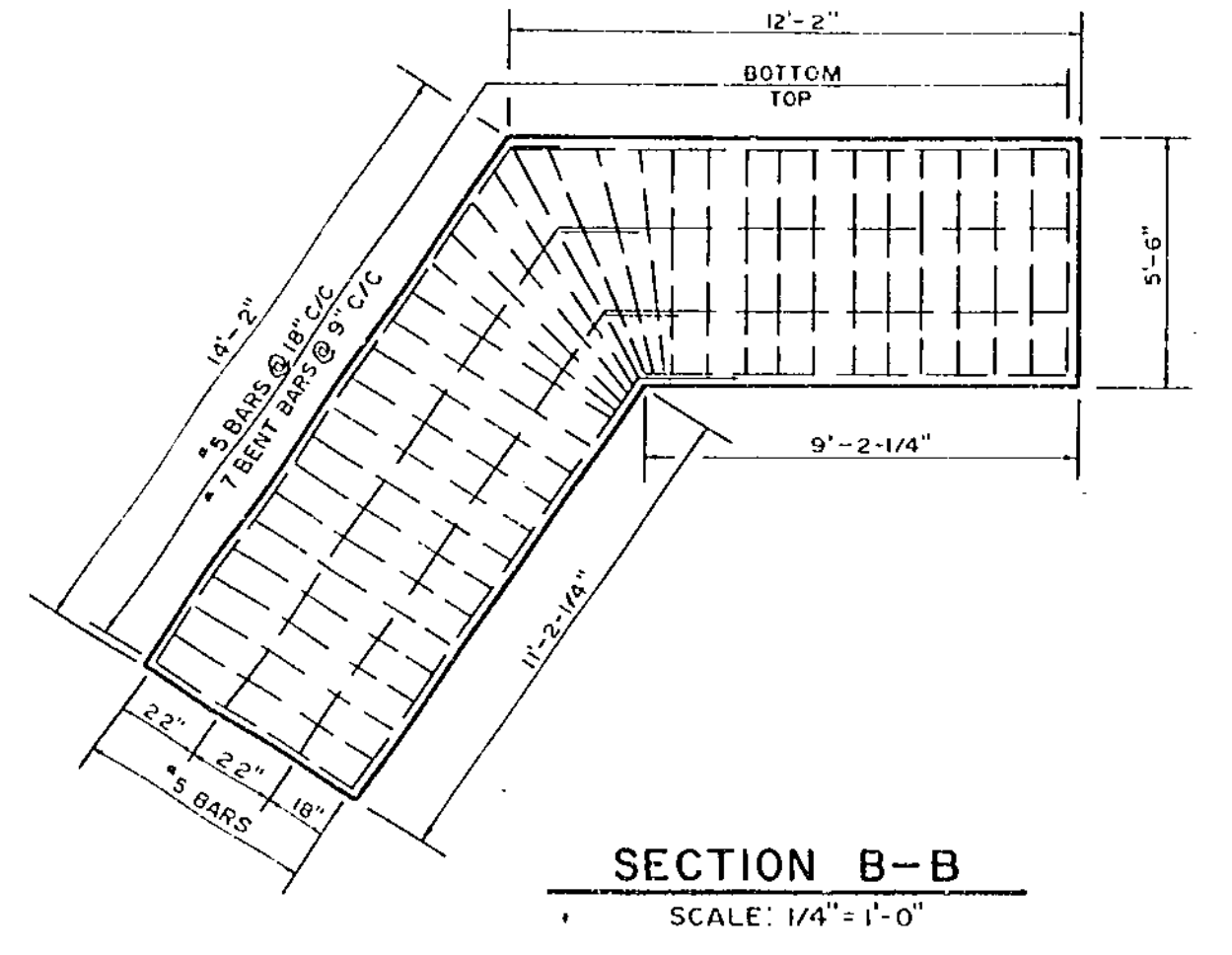
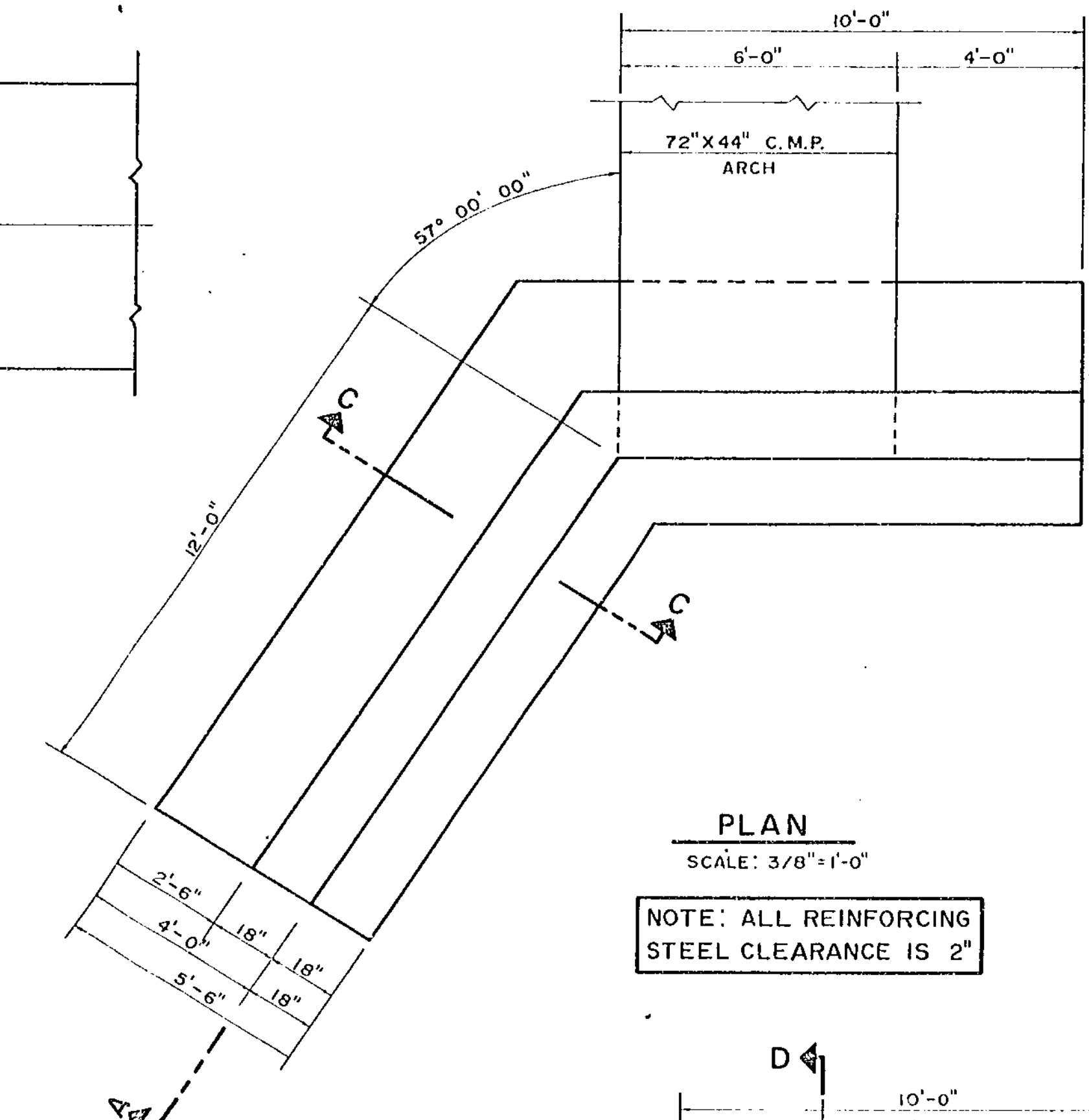
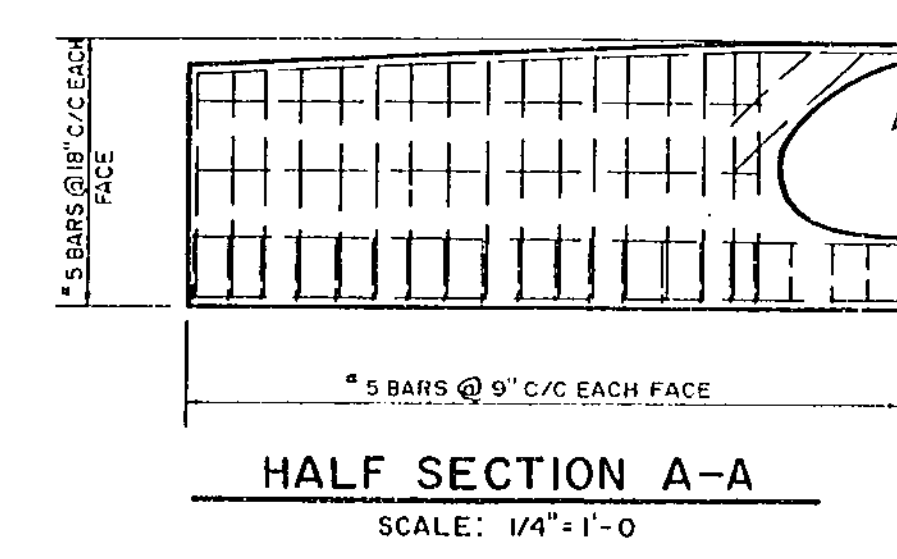
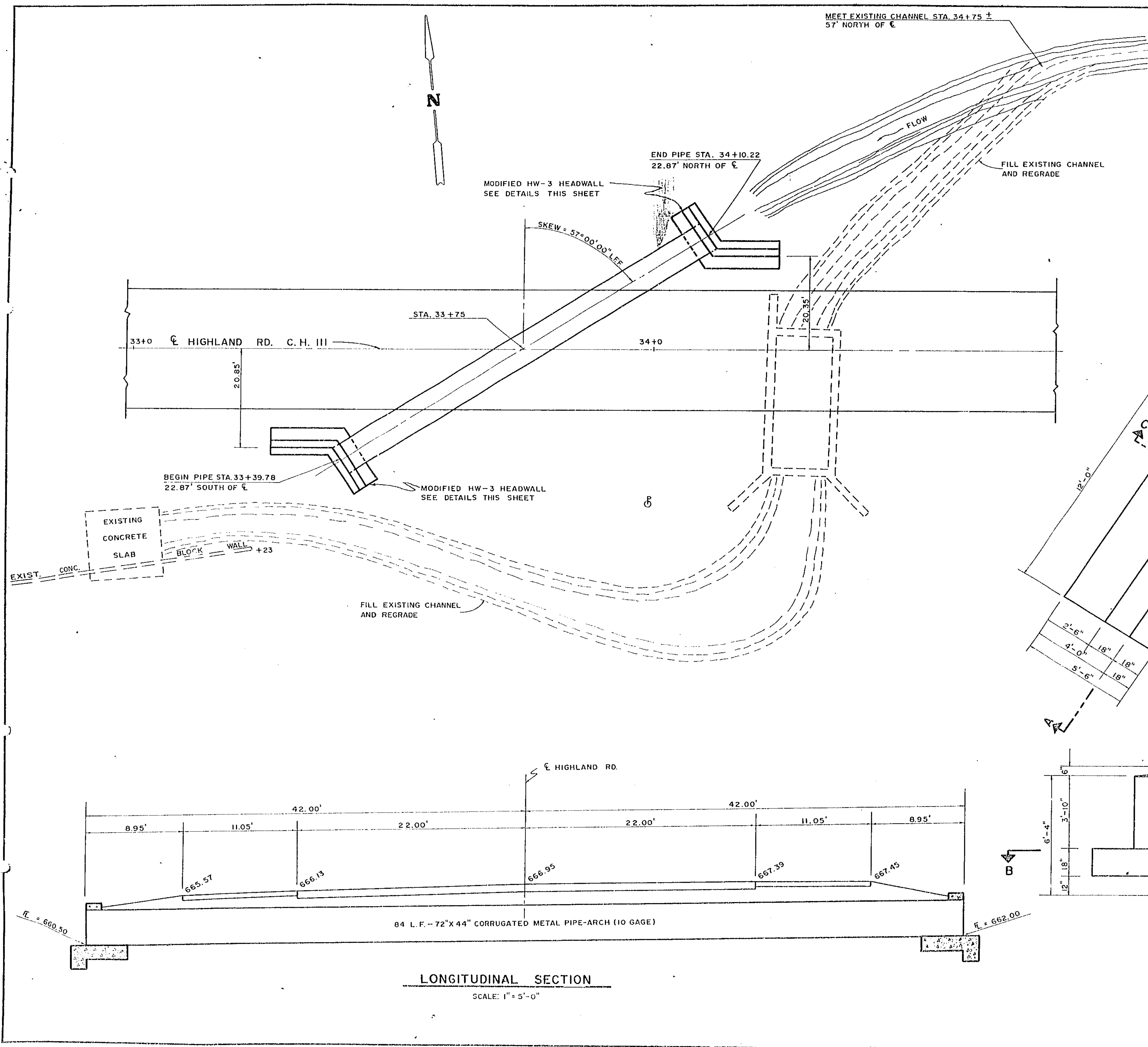
BRIDGE III-A-1	
INTERSECTION AND	
SPECIAL DETAILS	
SUMMIT COUNTY	
ENGINEERING DEPARTMENT	
COURT HOUSE AKRON, OHIO	
R. VAN BRIMMER, COUNTY ENGINEER	
DRAWN BY B. CAMPBELL	SCALE AS SHOWN
SUBMITTED BY B. CAMPBELL	DATE JUNE 23, 1966
APPROVED BY	FIELD BOOK
	TRACED BY J.R. COX



CUT-OFF WALL: COST OF THE REINFORCED CONCRETE CUT-OFF WALLS SHALL BE INCLUDED IN THE PRICE BID FOR 72" CORRUGATED METAL PIPE.



<u>BRIDGE III-A-1</u> <u>CULVERT DETAILS</u> <u>STA. 2+61.12 PAPER MILL DRIVE</u>	
SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO R. VAN BRIMMER COUNTY ENGINEER	
DRAWN BY B.J. CAMPBELL SUBMITTED BY B.J. CAMPBELL APPROVED BY	SCALE AS SHOWN DATE AUG. 1966 FIELD BOOK TRAC'D BY J.R. COX

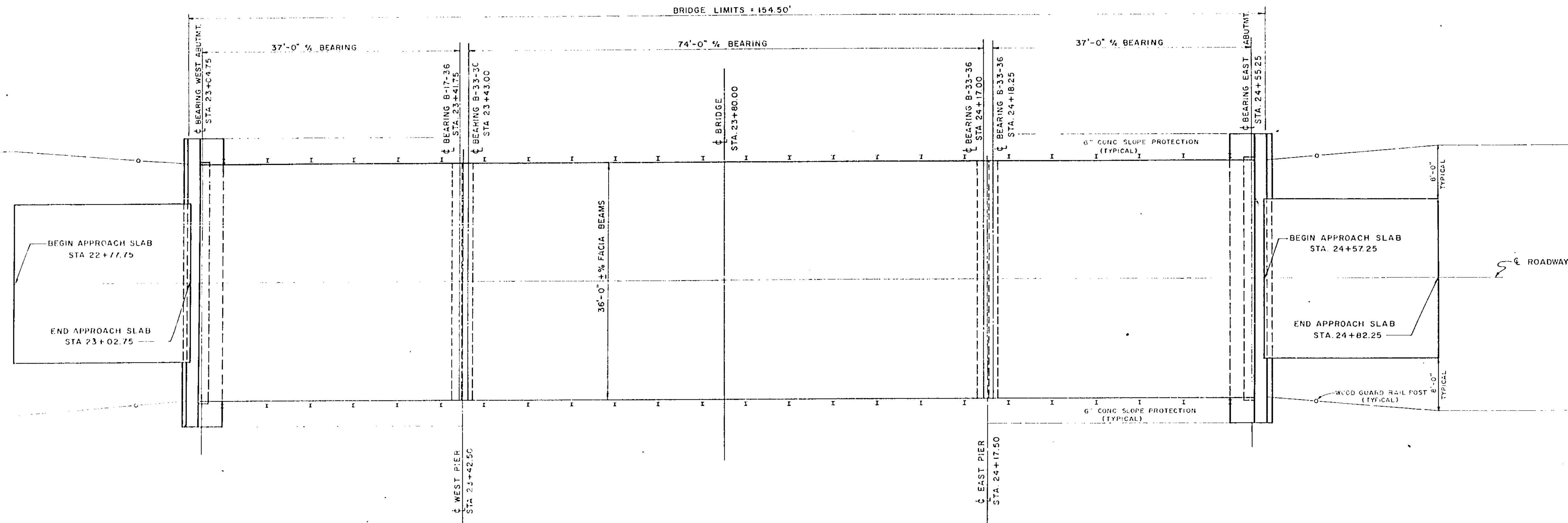


HIGHLAND RD. C.H. III
CULVERT DETAILS

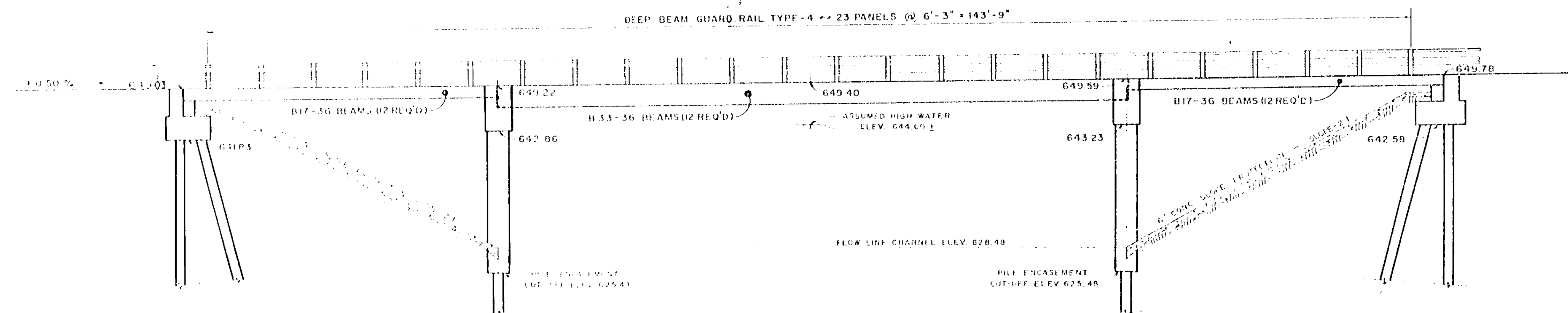
SUMMIT COUNTY
ENGINEERING DEPARTMENT
COURT HOUSE AKRON, OHIO
R. VAN BRIMMER COUNTY ENGINEER

DRAWN BY B.J. CAMPBELL
SUBMITTED BY B.J. CAMPBELL
APPROVED BY

SCALE AS SHOWN
DATE AUGUST 1966
FIELD BOOK
TRACED BY J.R. COX



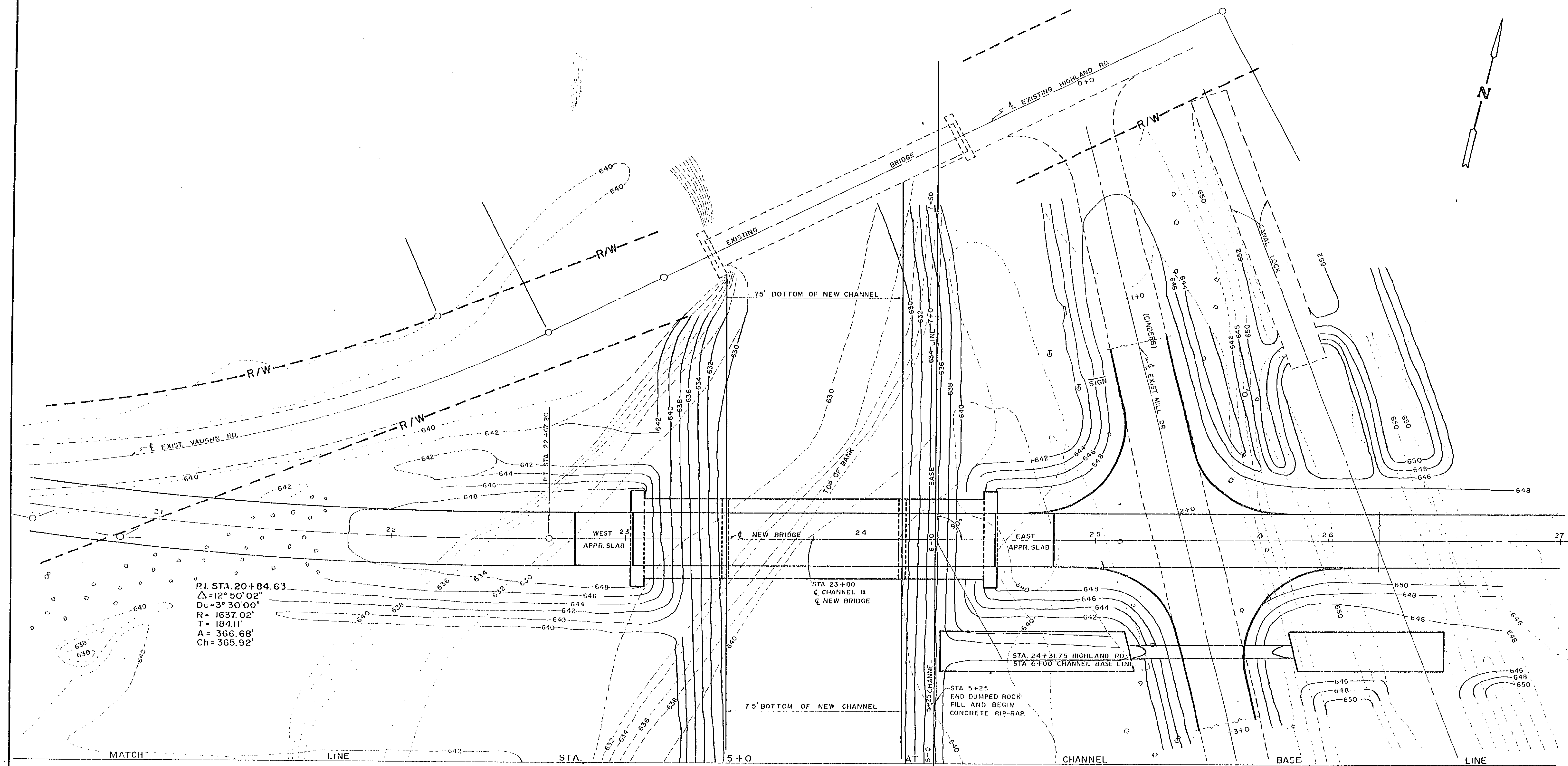
PLAN
SCALE: 1/8" = 1'-0"



ELEVATION
SCALE: 1/8" = 1'-0"

GENERAL PLAN
BRIDGE III-A-I

SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO R. VAN BRIMMER COUNTY ENGINEER	
DRAWN BY B. J. CAMPBELL	SCALE 1/8" = 1'-0"
SUBMITTED BY B. J. CAMPBELL	DATE JUNE, 1966
APPROVED BY	FIELD BOOK
	TRACED BY R. A. F.





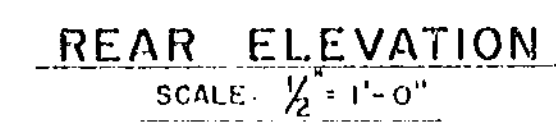
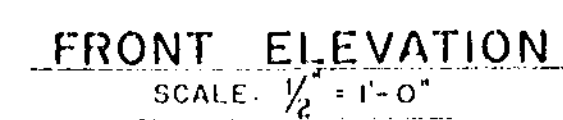
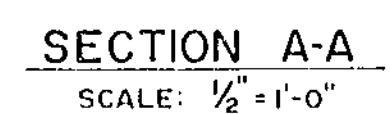
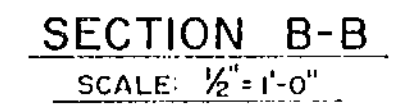


NOTES :

REINFORCING STEEL CLEARANCE SHALL BE 2" UNLESS OTHERWISE NOTED.

PILE BATTER: FRONT ROW OF PILES SHALL BE BATTERED ONE (1) HORIZONTAL TO FOUR (4) VERTICAL.

REINFORCING STEEL SHALL BE POSITIONED IN ABUTMENT SO AS NOT TO INTERFERE WITH DOWEL HOLES.

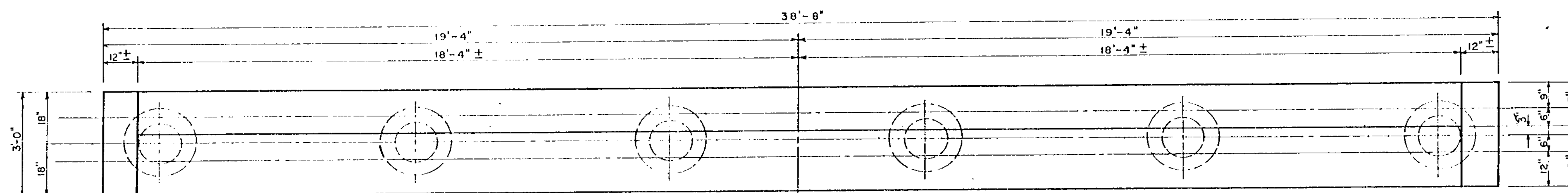


ABUTMENT DETAIL

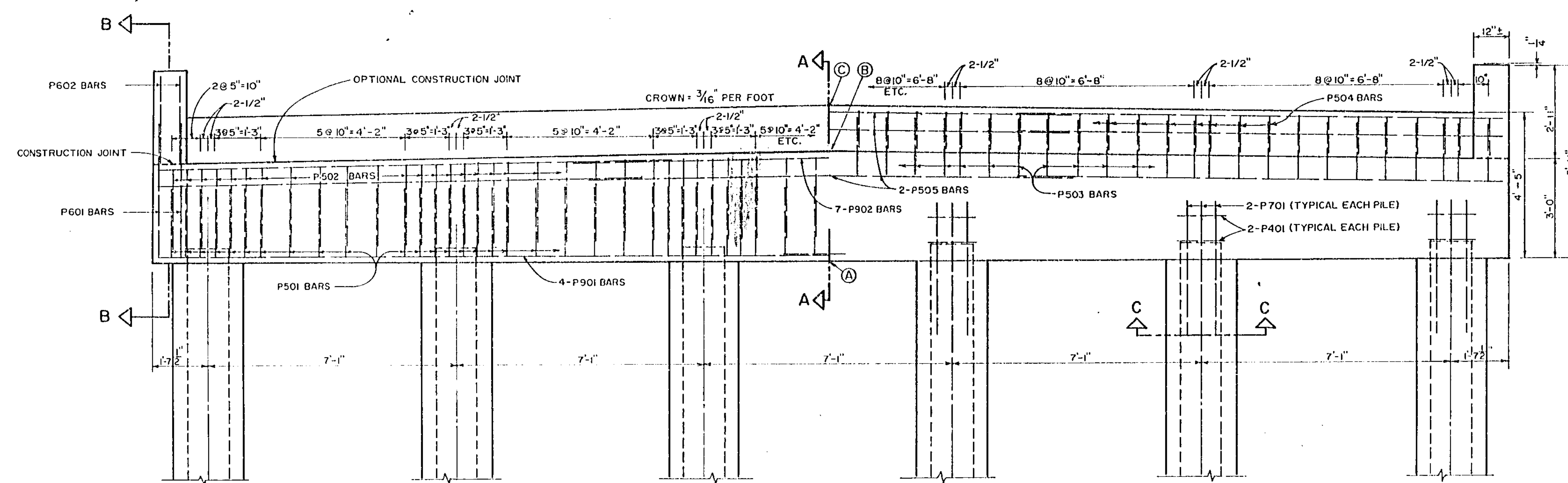
DRAWN BY ... R.A.F.
SUBMITTED BY B.J. CAMPBELL
EXTENDING PATTERN
APPROVED BY

SCALE AS SHOWN
DATE JUNE, 1966
FIELD BOOK
TRACED BY

ELEVATIONS			
ELEVATION	A	B	C
WEST	642.86	646.16	647.56
EAST	643.23	646.53	647.93

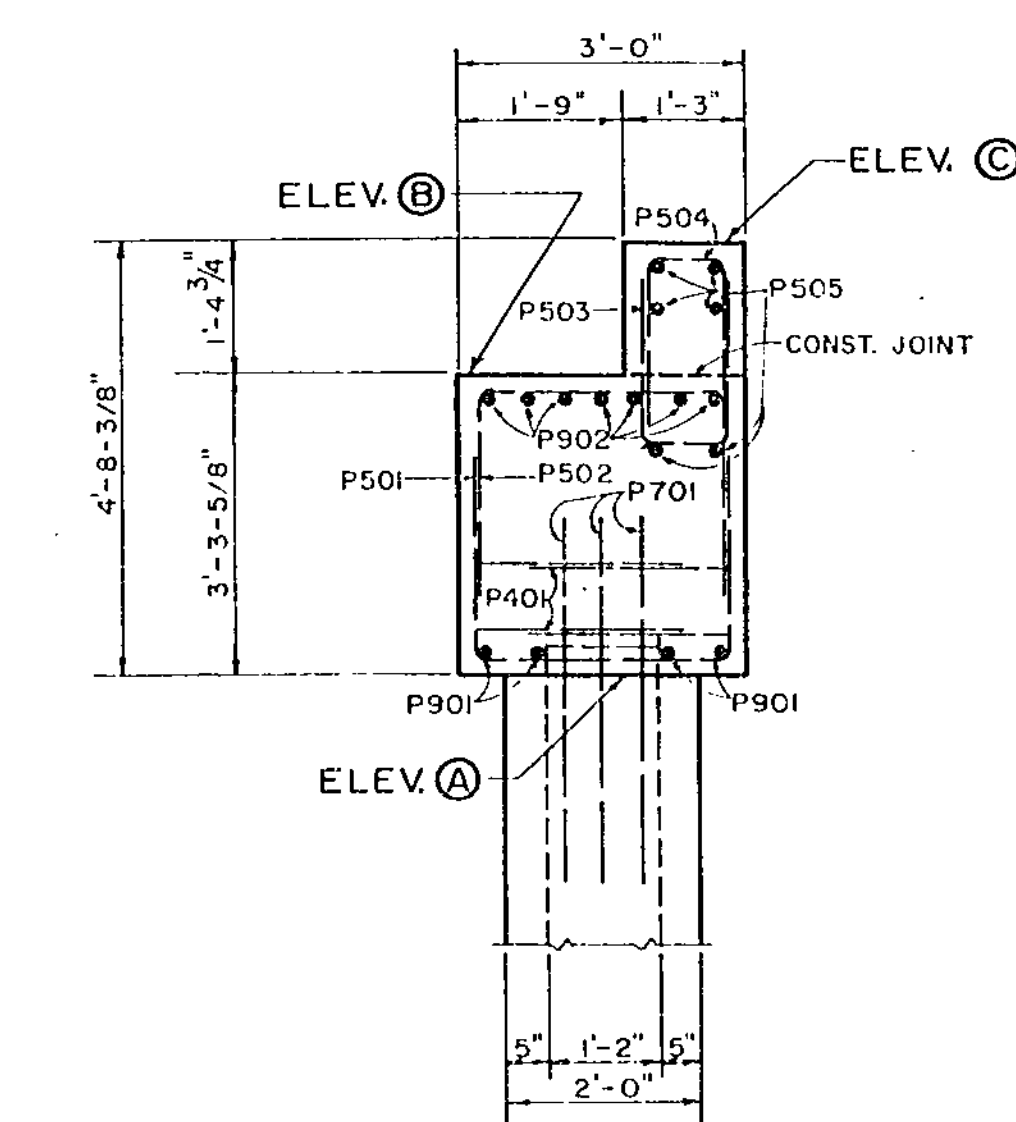


PLAN
SCALE: 1/2" = 1'-0"

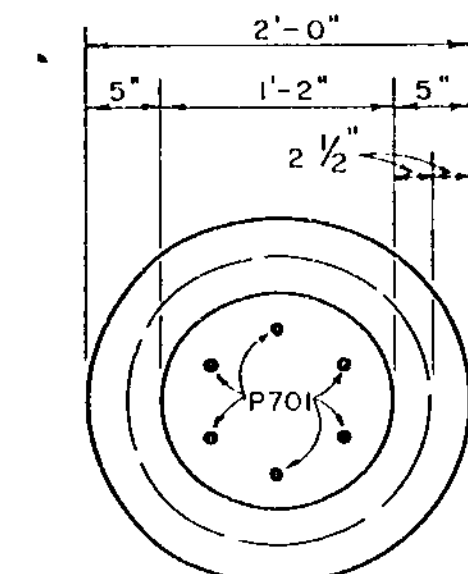


ELEVATION
SCALE: 1/2" = 1'-0"

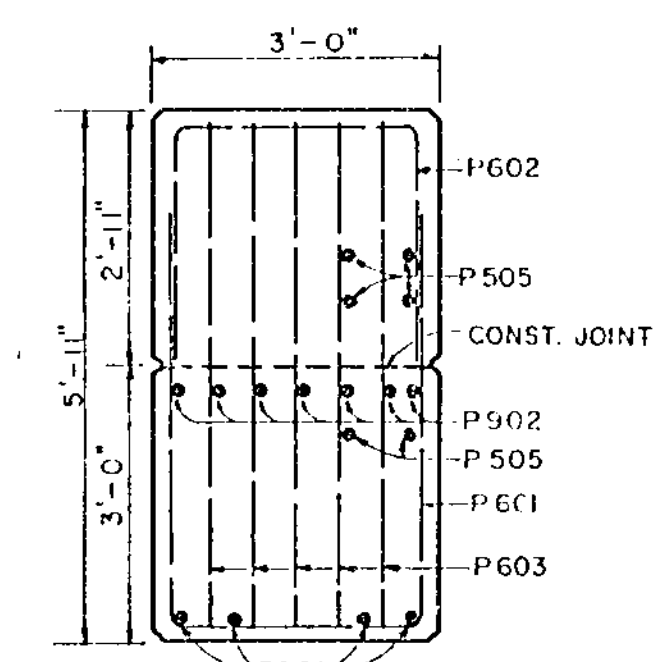
-NOTE-
REINFORCING STEEL CLEARANCE SHALL BE 2" UNLESS OTHERWISE NOTED
REINFORCING STEEL IN PIERS SHALL BE POSITIONED SO AS NOT TO INTERFERE WITH DOWEL HOLES.



SECTION A-A
SCALE: 1/2" = 1'-0"

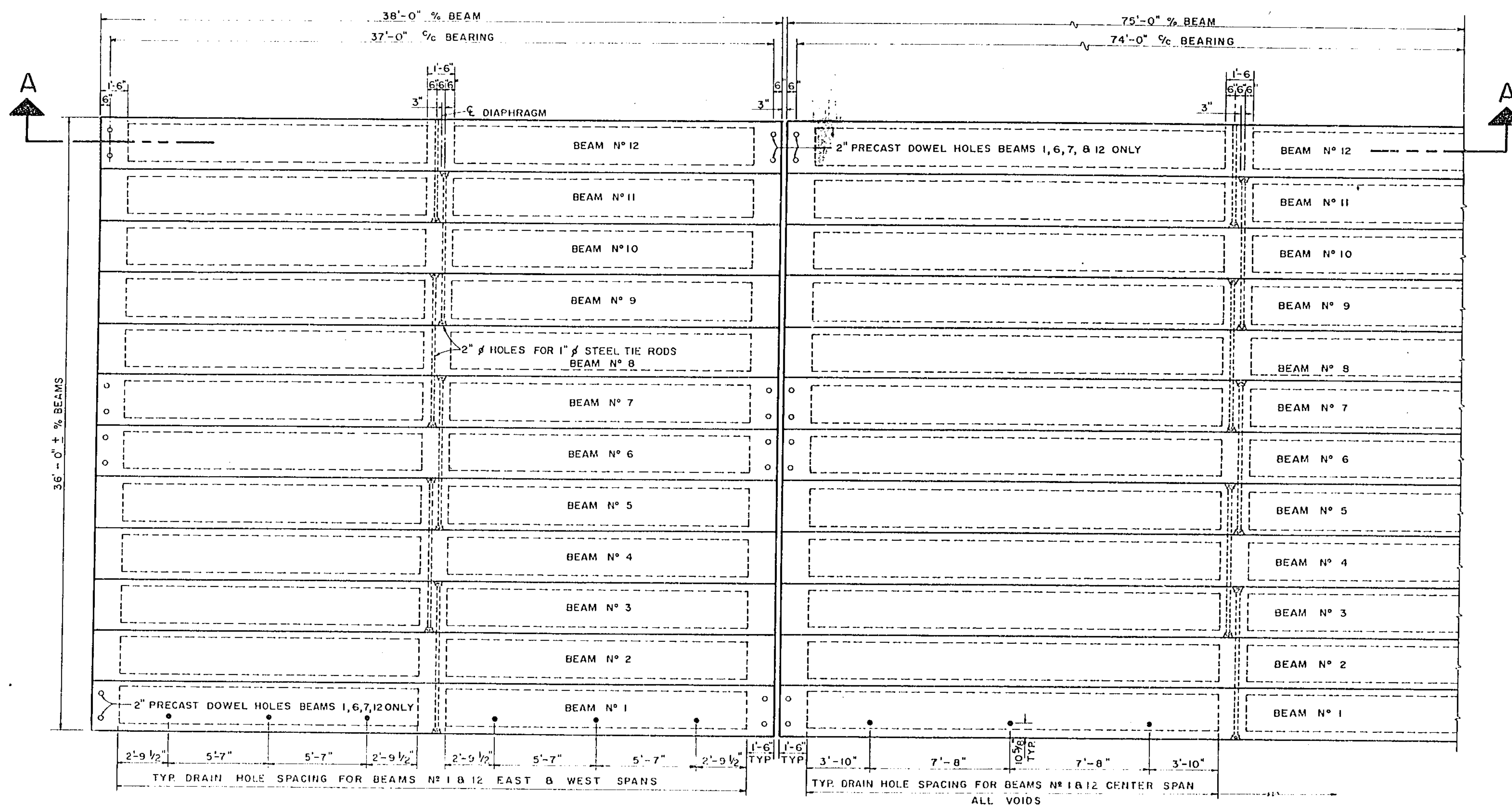


SECTION C-C
"CAST-IN-PLACE PILE"
SCALE: 1" = 1'-0"

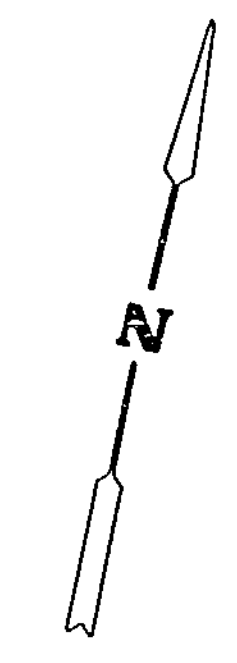


SECTION B-B
SCALE: 1/2" = 1'-0"

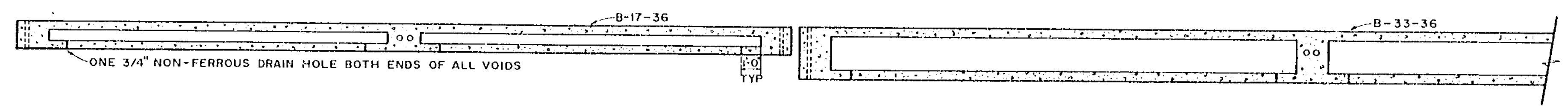
BRIDGE III-A-1	
PIER DETAIL	
SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO R. VAN BRIMMER COUNTY ENGINEER	
DRAWN BY B. J. CAMPBELL	SCALE AS SHOWN
SUBMITTED BY B. J. CAMPBELL	DATE JUNE, 1966
APPROVED BY	FIELD BOOK
	TRACED BY R. A. FULLER



NOTE:
REINFORCING STEEL IN ABUTMENTS AND
PIERS SHALL BE POSITIONED SO AS NOT
TO INTERFERE WITH DOWEL HOLES.

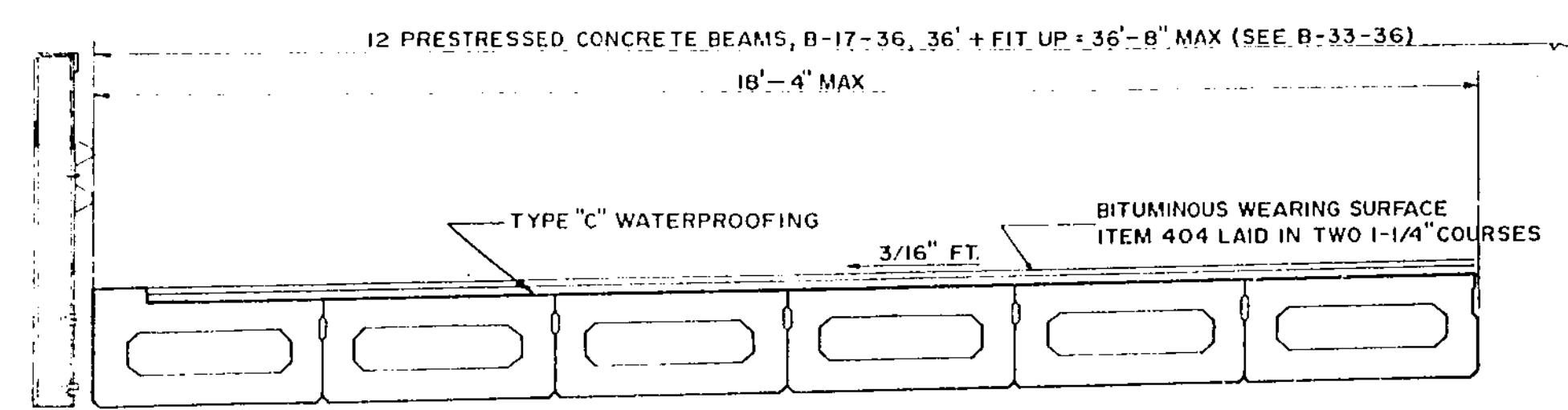


PLAN
SCALE: 1/4" = 1'-0"

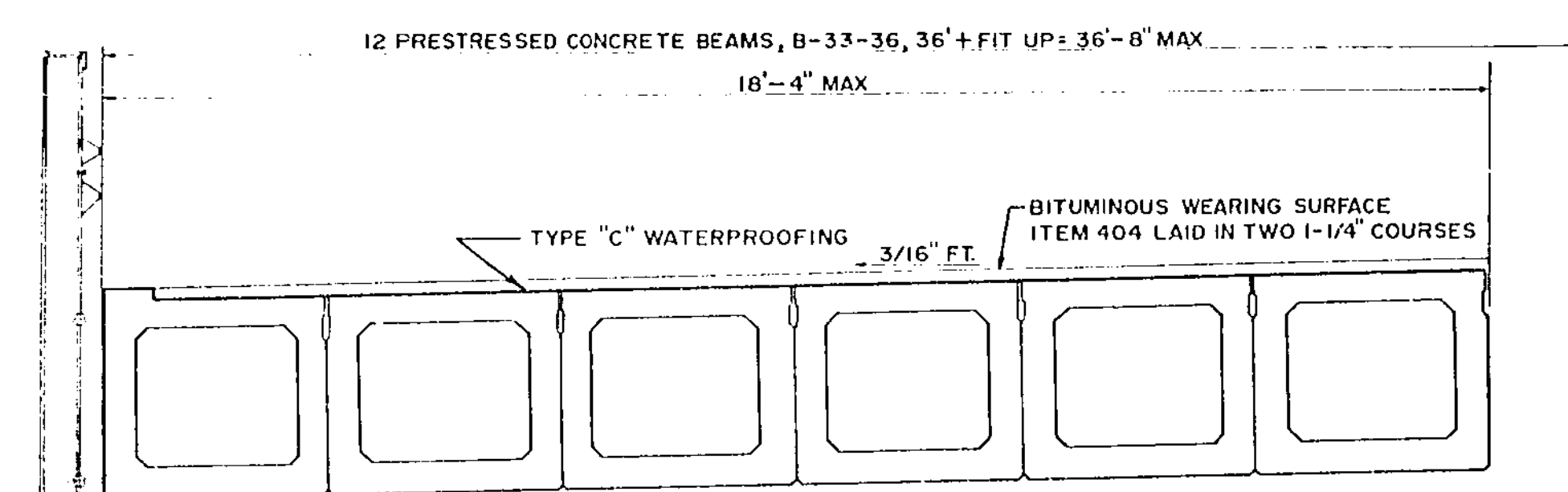


SECTION A-A
SCALE: 1/4" = 1'-0"

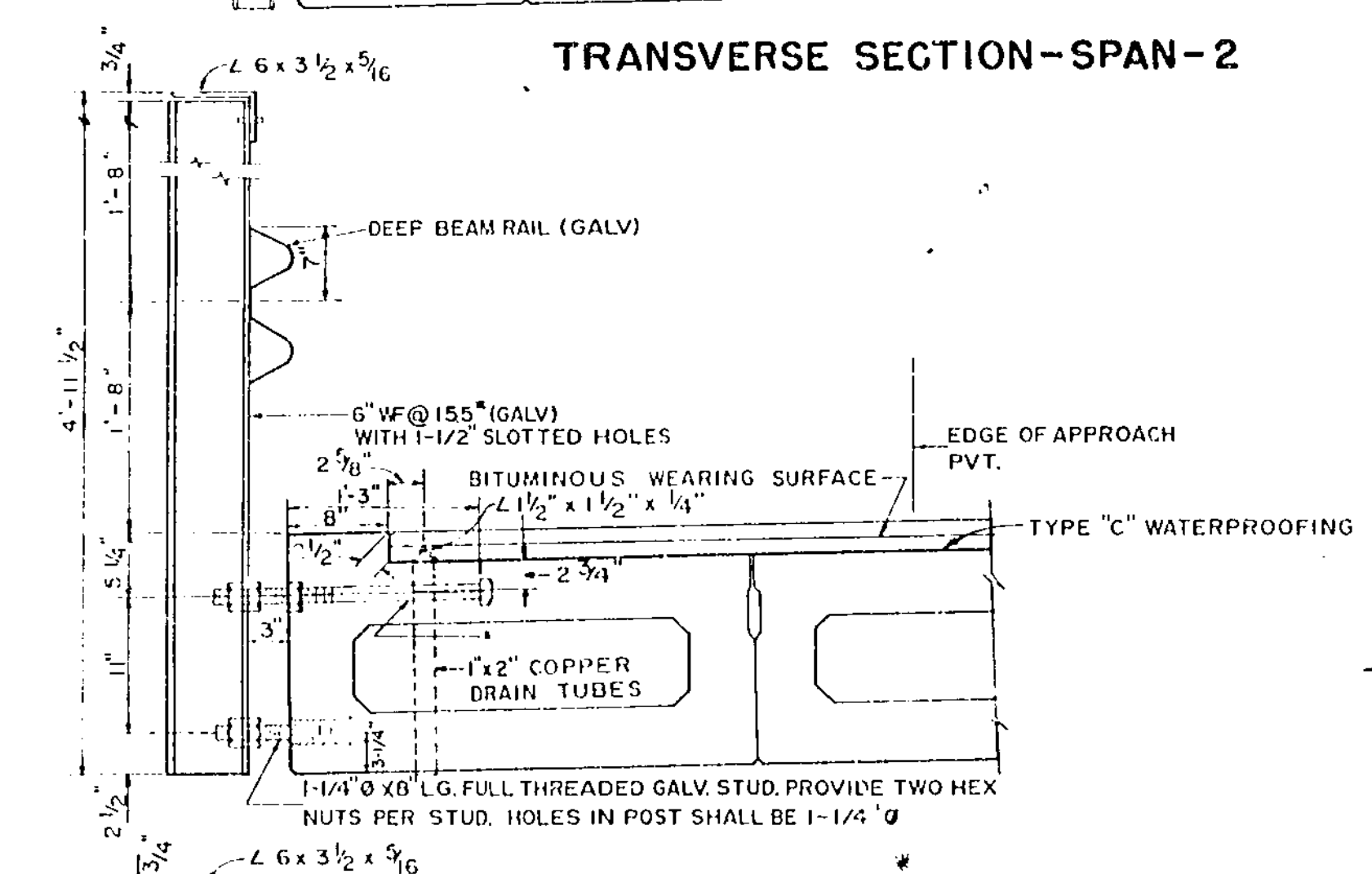
SUPERSTRUCTURE			
CENTER & END SPAN DETAILS			
SUMMIT COUNTY			
ENGINEERING DEPARTMENT			
COURT HOUSE AKRON, OHIO			
R. VAN BRIMMER COUNTY ENGINEER			
DRAWN BY	R. A. F.	SCALE	AS SHOWN
SUBMITTED BY	B. J. CAMPBELL	DATE	JUNE, 1966
APPROVED BY		FIELD BOOK	
		TRACED BY	



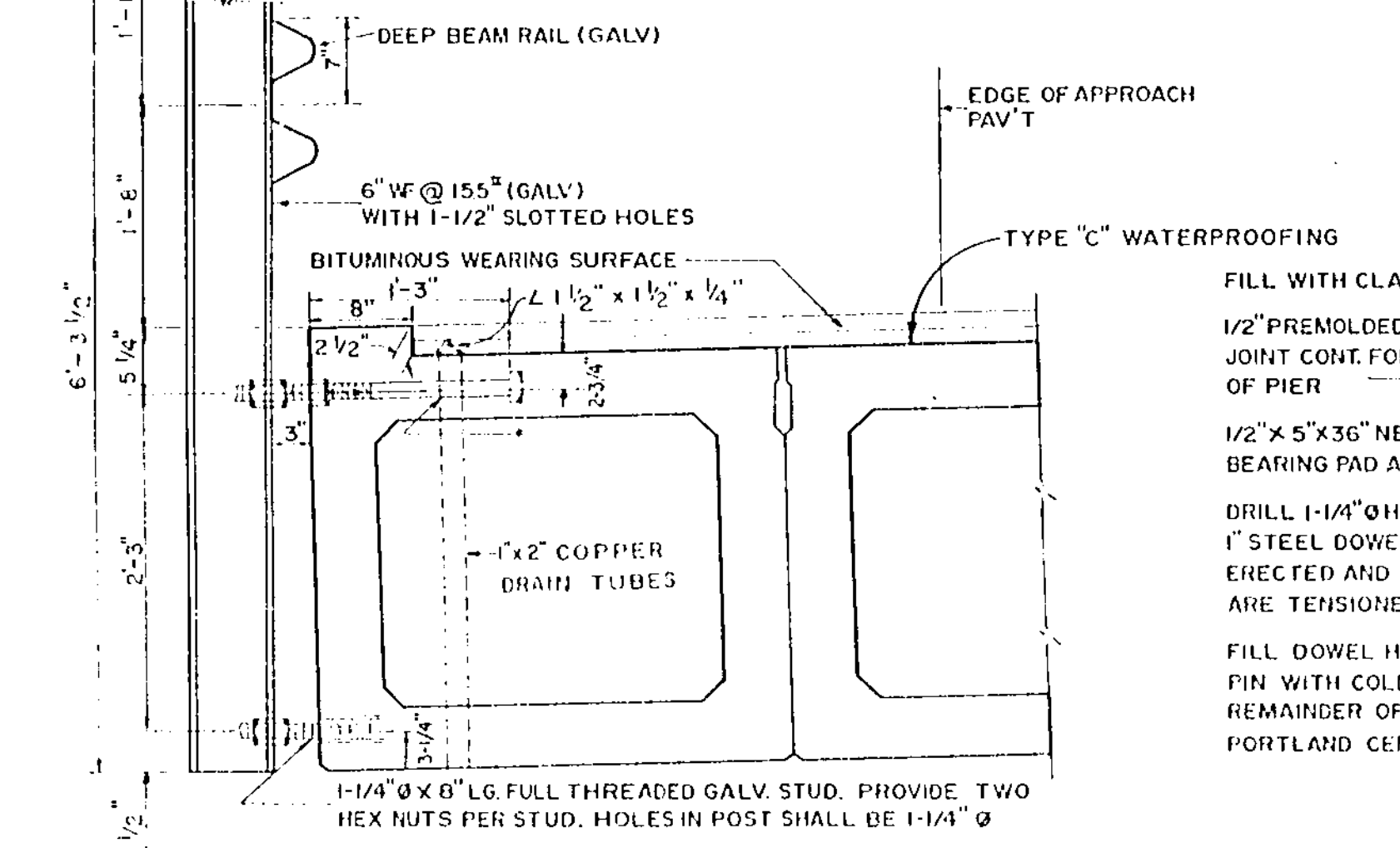
TRANSVERSE SECTION-SPANS-1&3



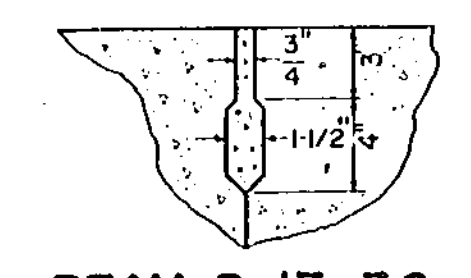
TRANSVERSE SECTION-SPAN-2



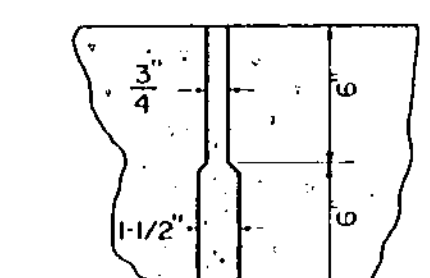
RAILING DETAIL-END SPAN



RAILING DETAIL-CENTER SPAN



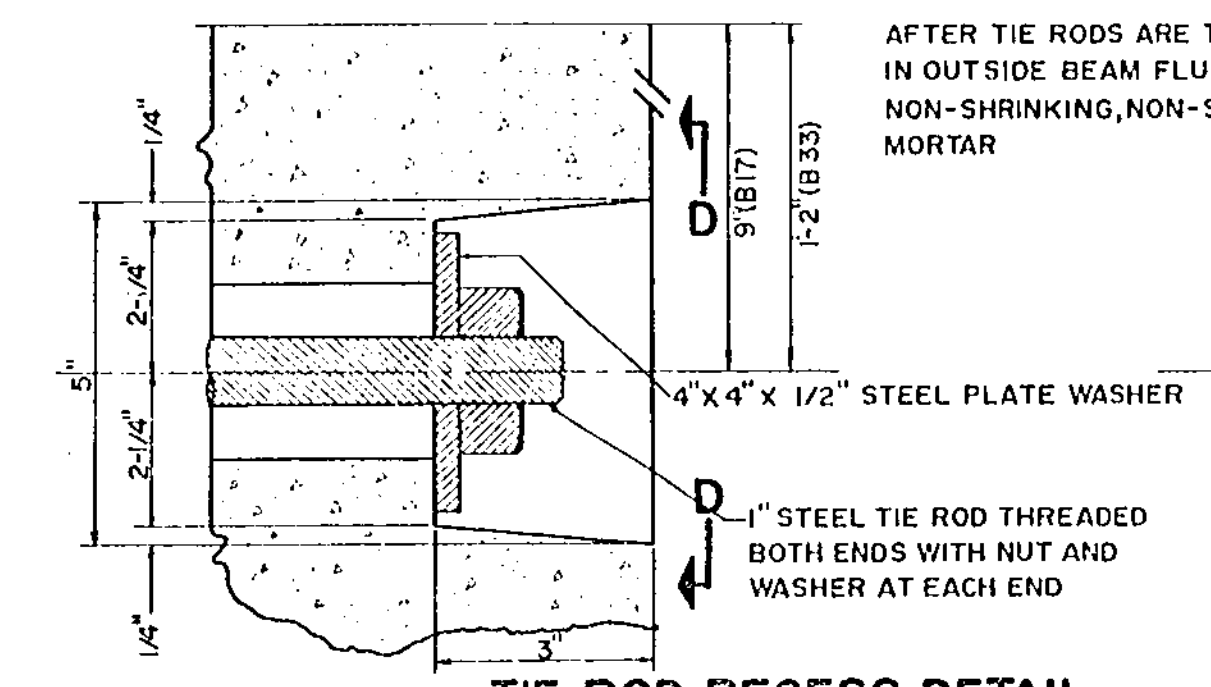
BEAM B-17-36



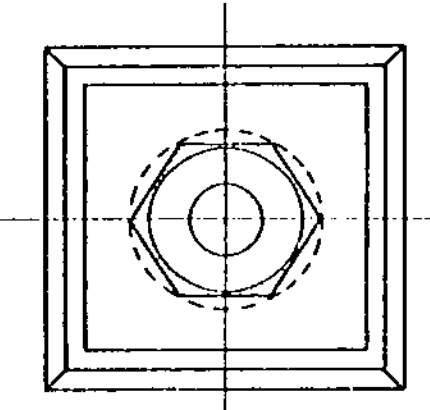
BEAM B-33-36

GROUT SHEAR KEY
WITH 1:3 PORTLAND
CEMENT MORTAR
WITH INTER-PLAST-C
TO REDUCE SHRINKAGE

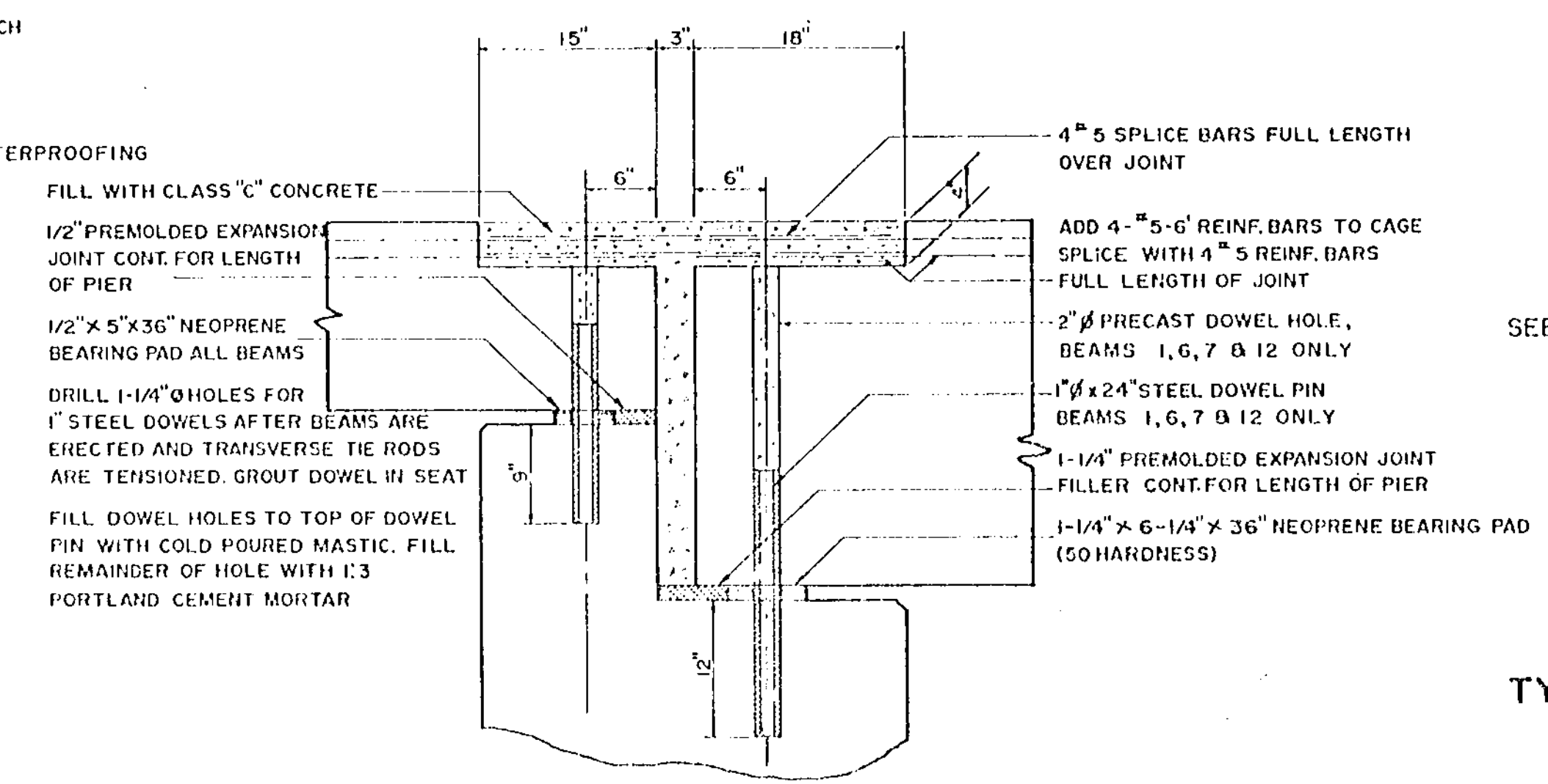
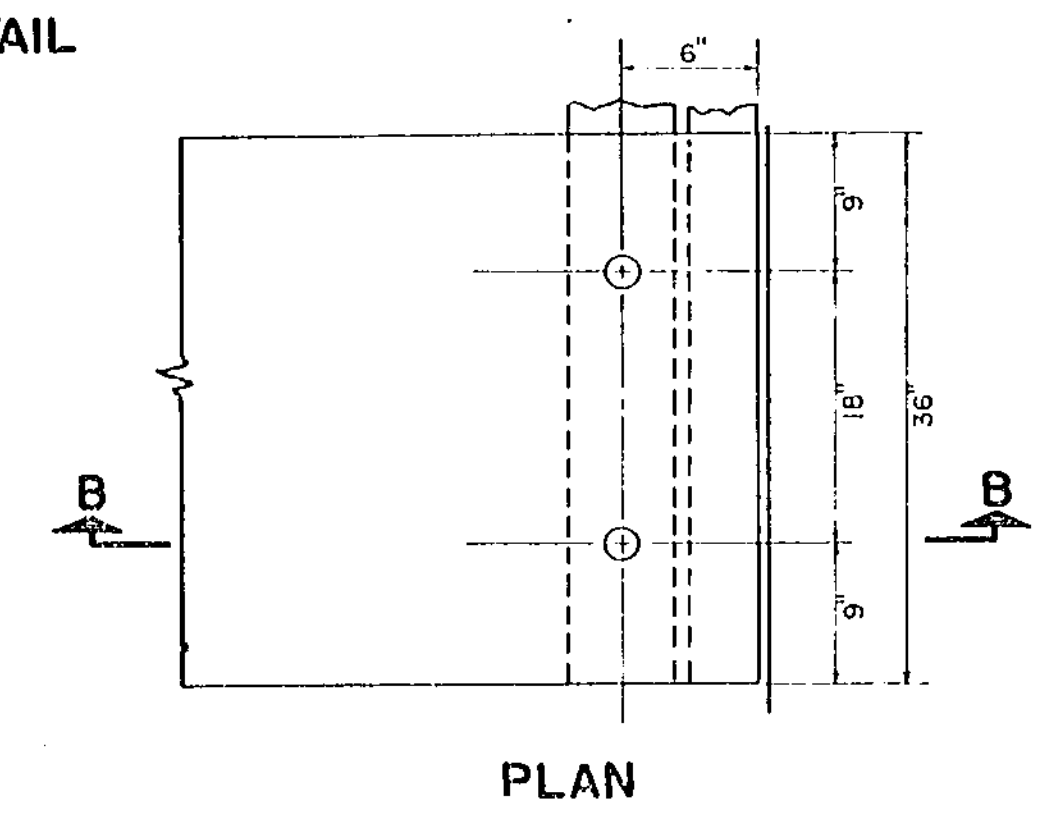
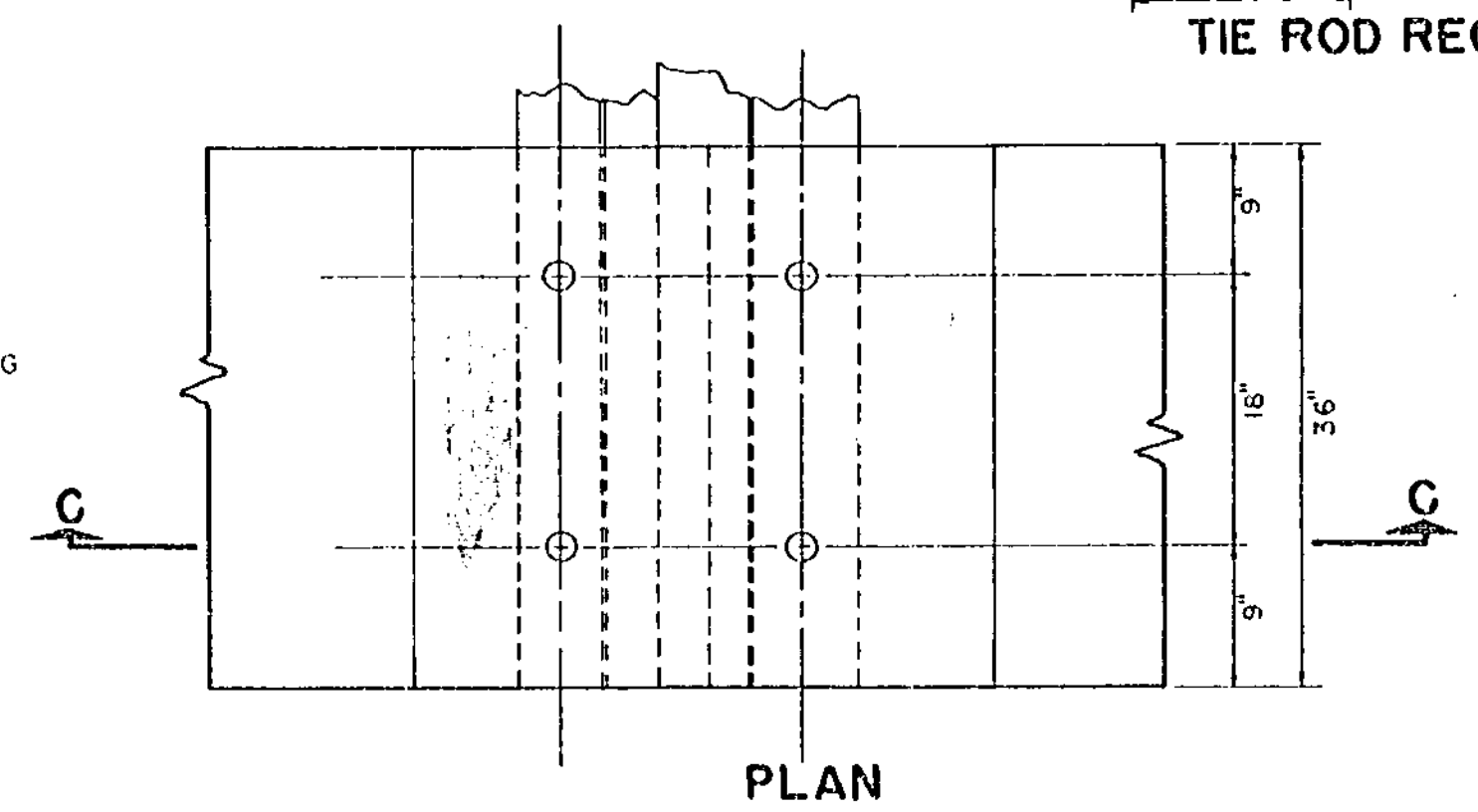
SHEAR KEY DETAIL



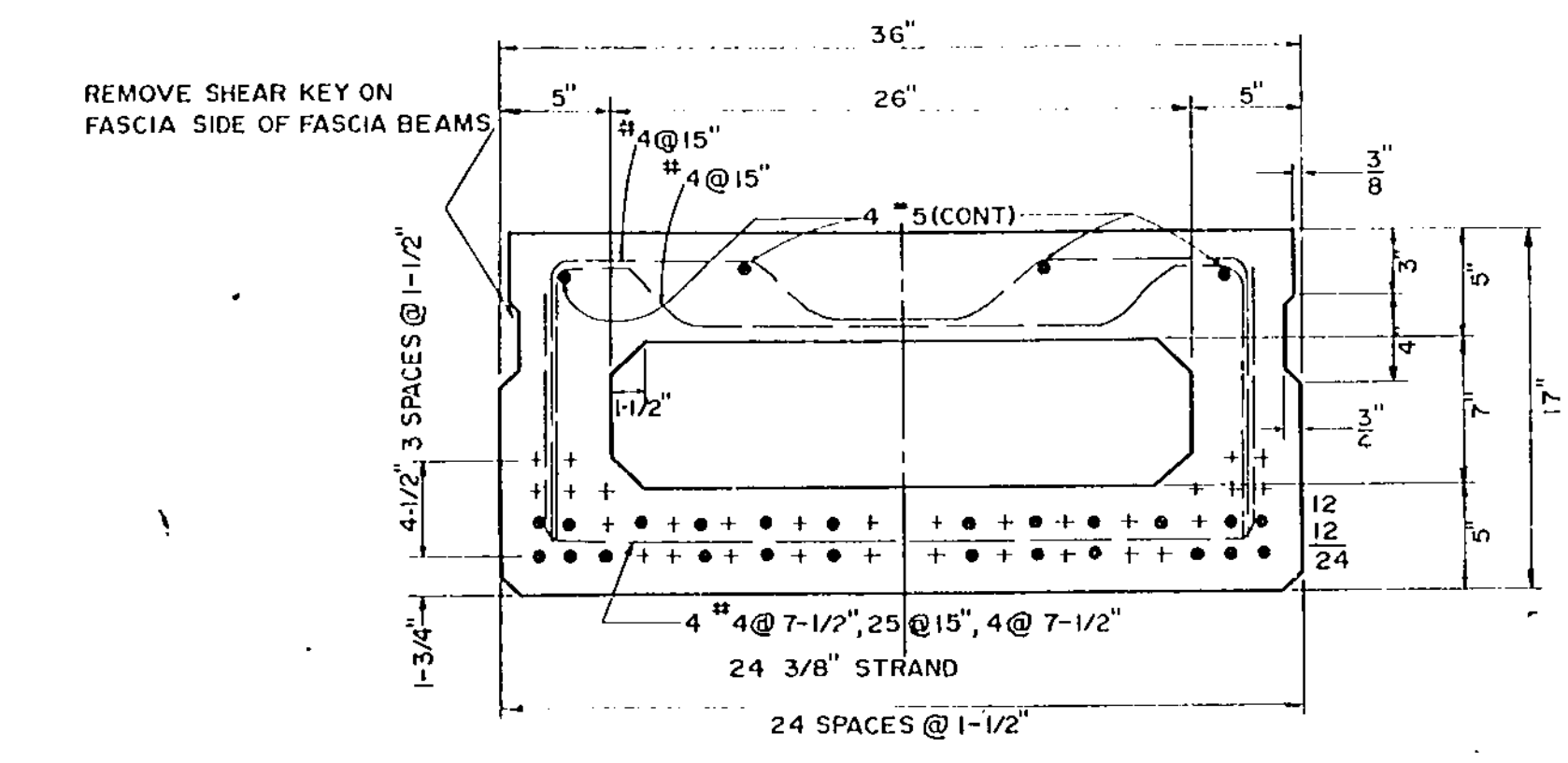
TIE ROD RECESS DETAIL



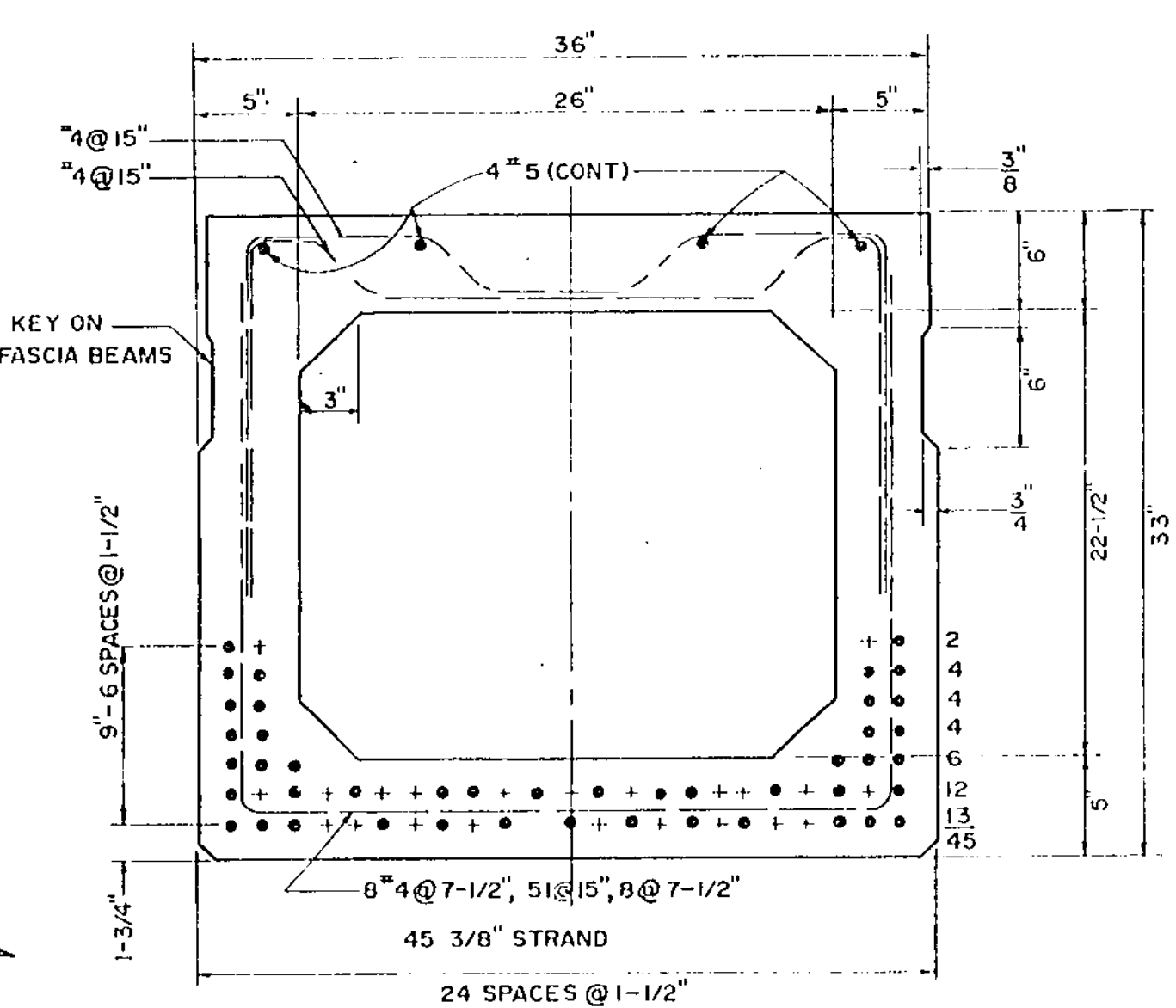
VIEW "D-D"



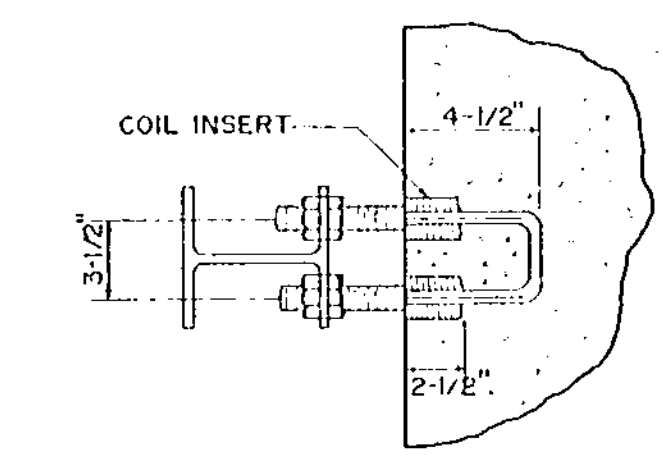
SECTION C-C
TYPICAL PIER ANCHOR DETAIL



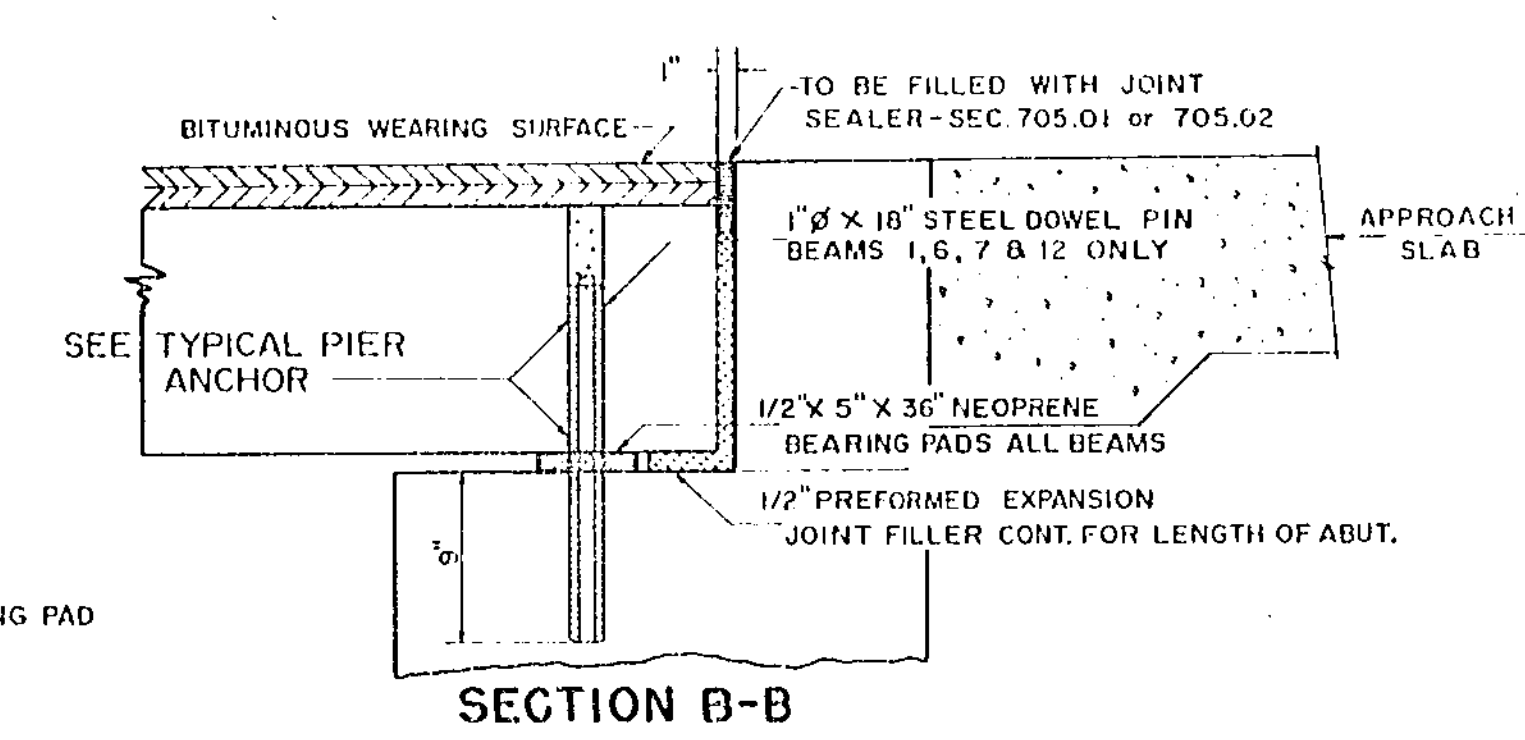
TYPICAL BEAM SECTION B-17-36



TYPICAL BEAM SECTION B-33-36



COIL INSERT DETAIL



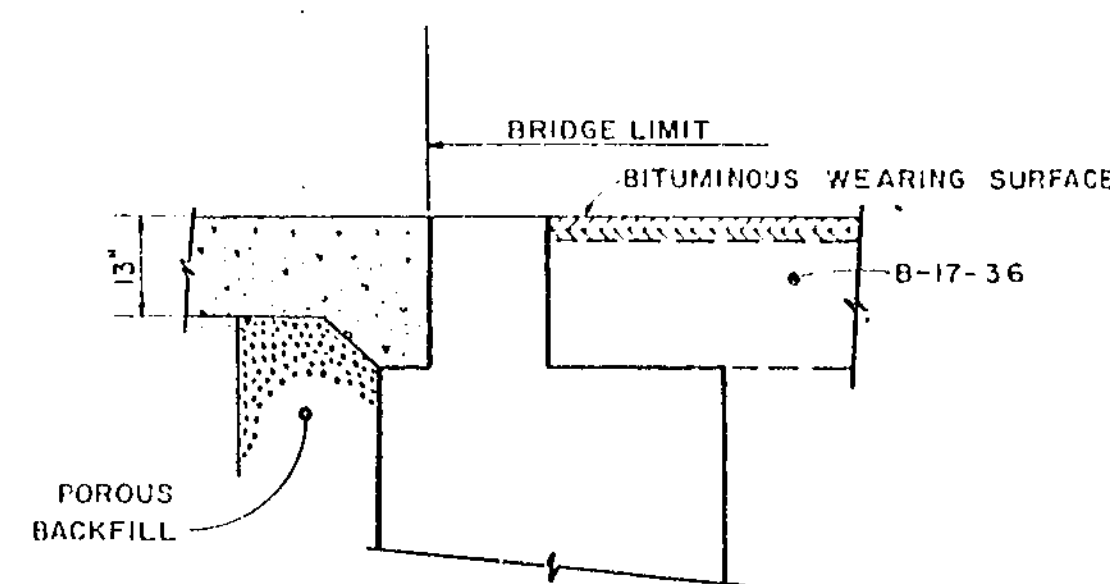
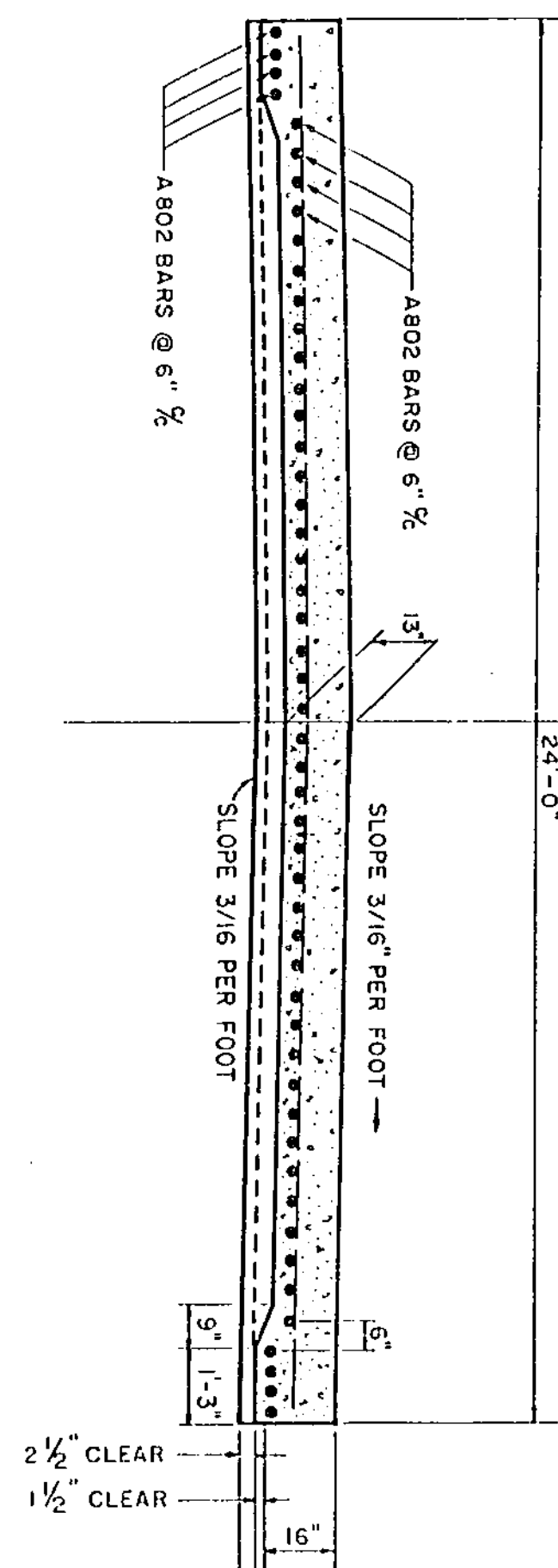
TYPICAL ABUTMENT ANCHOR DETAIL

BRIDGE III-A-1

DETAILS

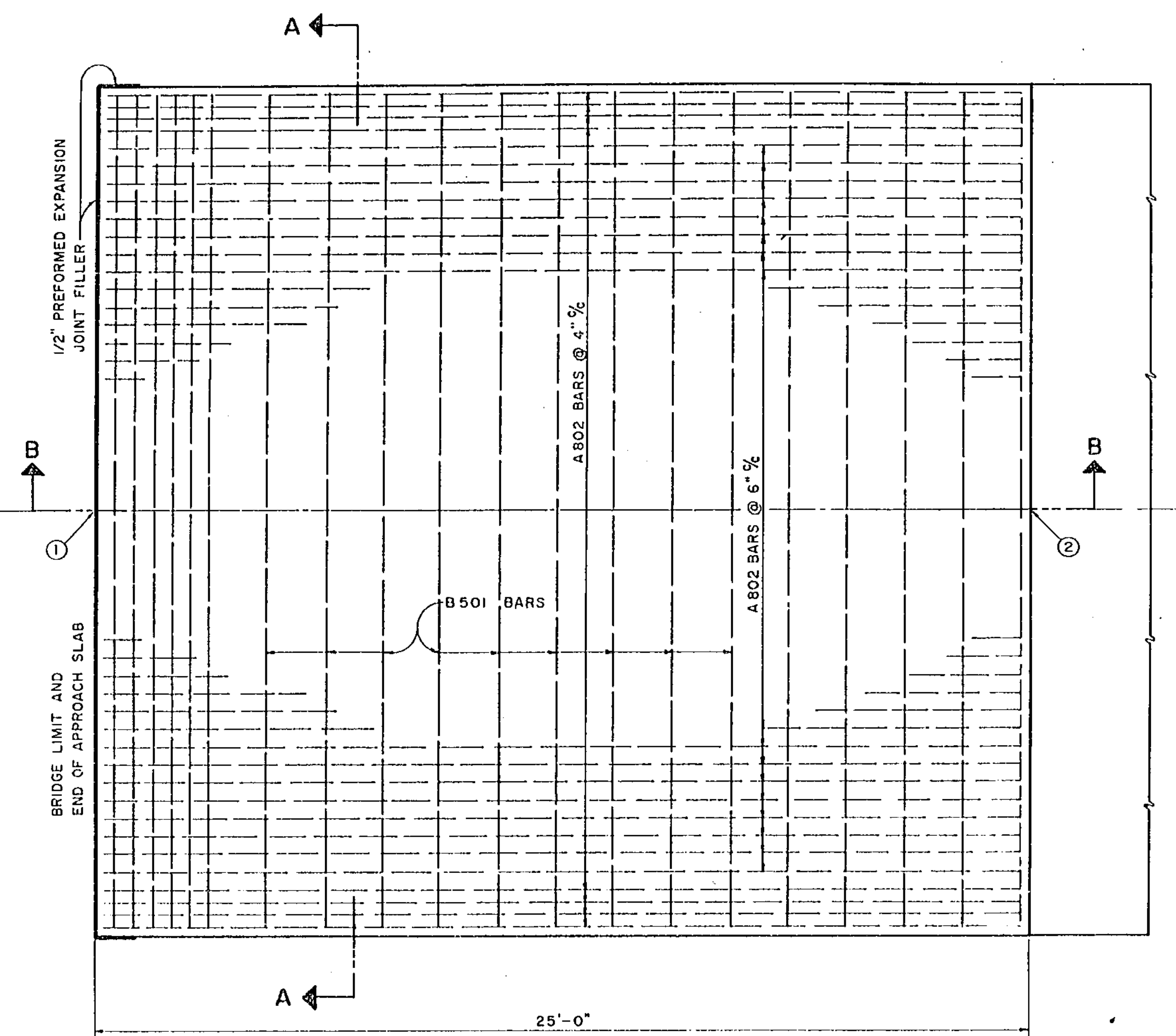
SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO			
R. VAN BRIMMER		COUNTY ENGINEER	
DRAWN BY J.R. COX	SCALE AS SHOWN	DATE JULY 1966	FIELD BOOK
SUBMITTED BY B. J. CAMPBELL	APPROVED BY	TRACED BY	

SECTION A-A
SCALE: 3/8" = 1'-0"

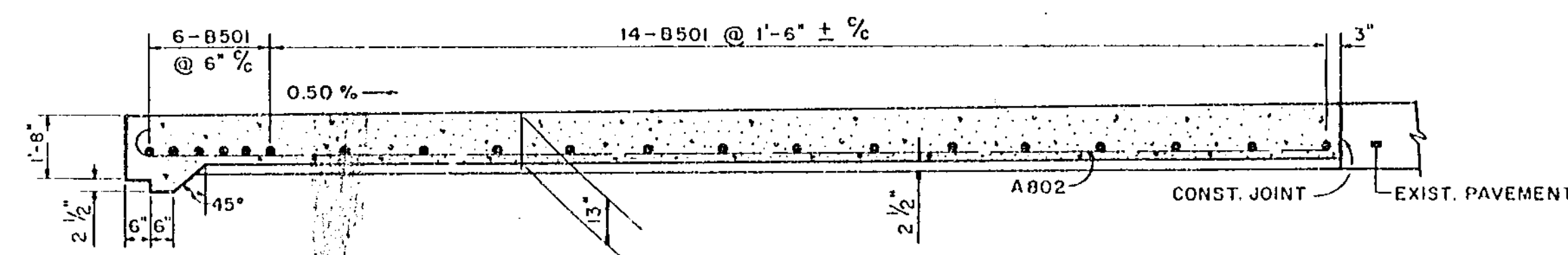


TYPICAL SECTION - APPROACH SLAB AT BRIDGE
SCALE: 1/2" = 1'-0"

LIMITING STATIONS AND ELEVATION DATA					
APPROACH SLAB	STATION BEGIN	STATION END	CROWN ELEV. ①	CROWN ELEV. ②	CONCRETE SQ. YDS.
WEST	22+77.75	23+02.75	648.89	649.02	66.7
EAST	24+57.25	24+82.25	649.79	649.92	66.7



PLAN
SCALE: 3/8" = 1'-0"

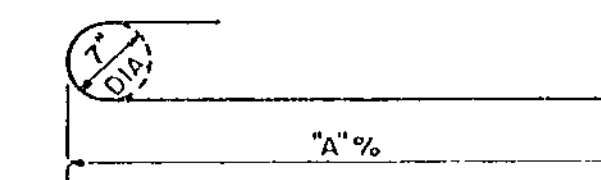


SECTION B-B
SCALE: 3/8" = 1'-0"

CONCRETE: SHALL BE CLASS "C" OR CLASS "D"

PREFORMED EXPANSION JOINT FILLER: AT THE EDGES OF THE APPROACH SLAB SHALL BE INCLUDED WITH THE APPROACH SLAB FOR PAYMENT

REINFORCING STEEL							
LENGTH	THICK-NESS	A 802				B 501	
		SPACING	MARK	LENGTH	DIMENSION "A"	N ^o REQ'D.	N ^o REQ'D.
WEST	13"	VARIES	A 802	25'-7"	24'-6"	50	23'-6"
EAST	13"	VARIES	A 802	25'-7"	24'-6"	50	23'-6"



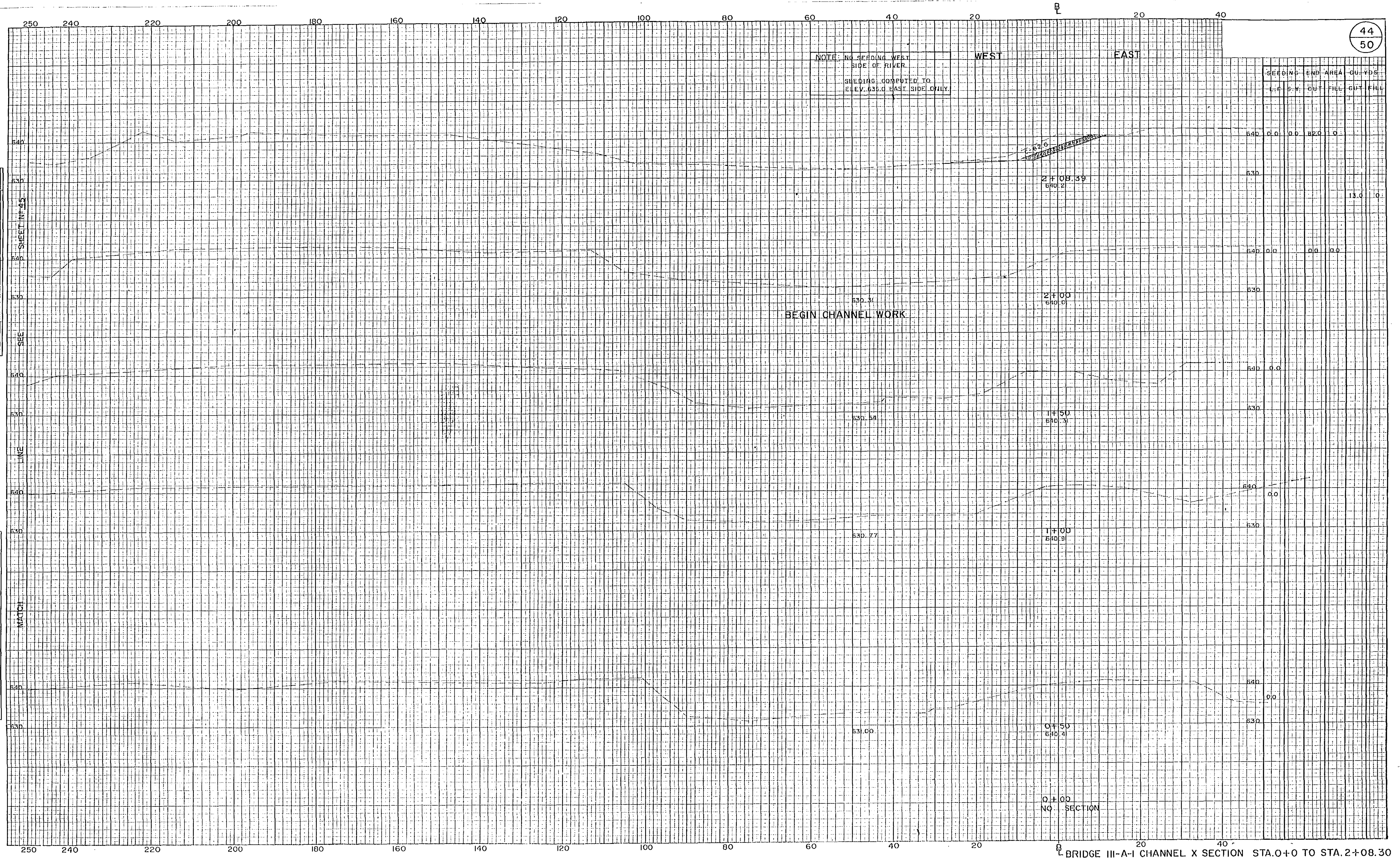
BRIDGE III-A-1
APPROACH SLAB DETAILS

SUMMIT COUNTY
ENGINEERING DEPARTMENT
COURT HOUSE AKRON, OHIO
R. VAN BRIMMER, COUNTY ENGINEER

DRAWN BY: R.A.F.
SUBMITTED BY: B.J. CAMPBELL
APPROVED BY: _____
SCALE: AS SHOWN
DATE: JUNE, 1966
FIELD BOOK:
TRACED BY: _____

FINAL SURVEY	SURVEY PLOTTER J.R. COX	DATE
NOTE BOOK NO. 58-2	TEMPLATE AREAS CHECKED	BY

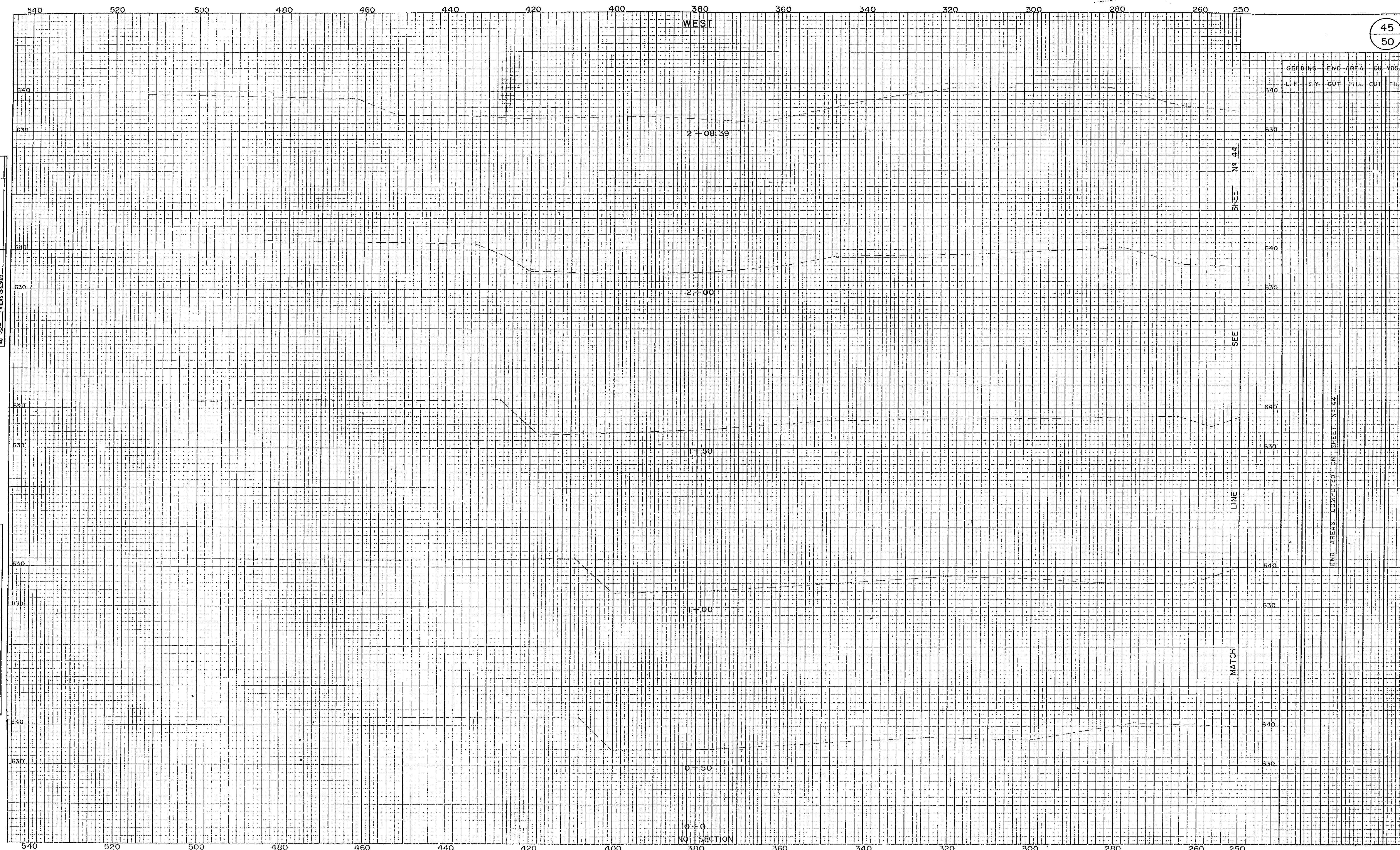
ORIGINAL SURVEY	SURVEY PLOTTER	DATE
NOTE BOOK NO. 58-2	TEMPLATE AREAS CHECKED	BY



BRIDGE III-A-1 CHANNEL X SECTION STA. 0+0 TO STA. 2+08.30

FINAL SURVEY	DATE
NOTED	BY
NO. 884	J. R. COX
AREAS CHECKED	

ORIGINAL SURVEY	DATE
NOTED	BY
NO. 584	
AREAS CHECKED	



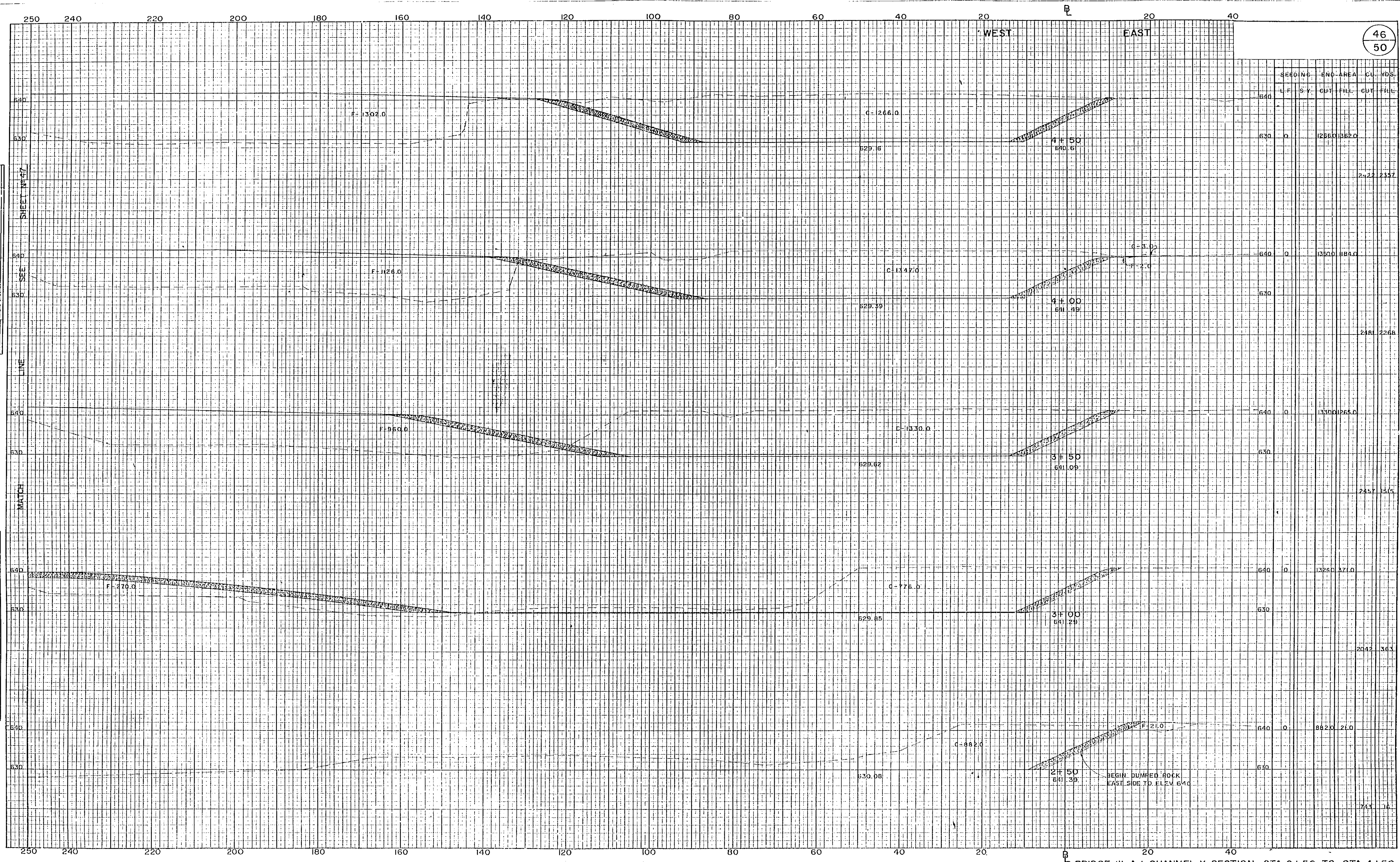
SEEDING	END AREA	CUT	FILL	CUT	FILL
L.F.	S.Y.	CUT	FILL	CUT	FILL

END AREAS COMPUTED ON SHEET NO. 44

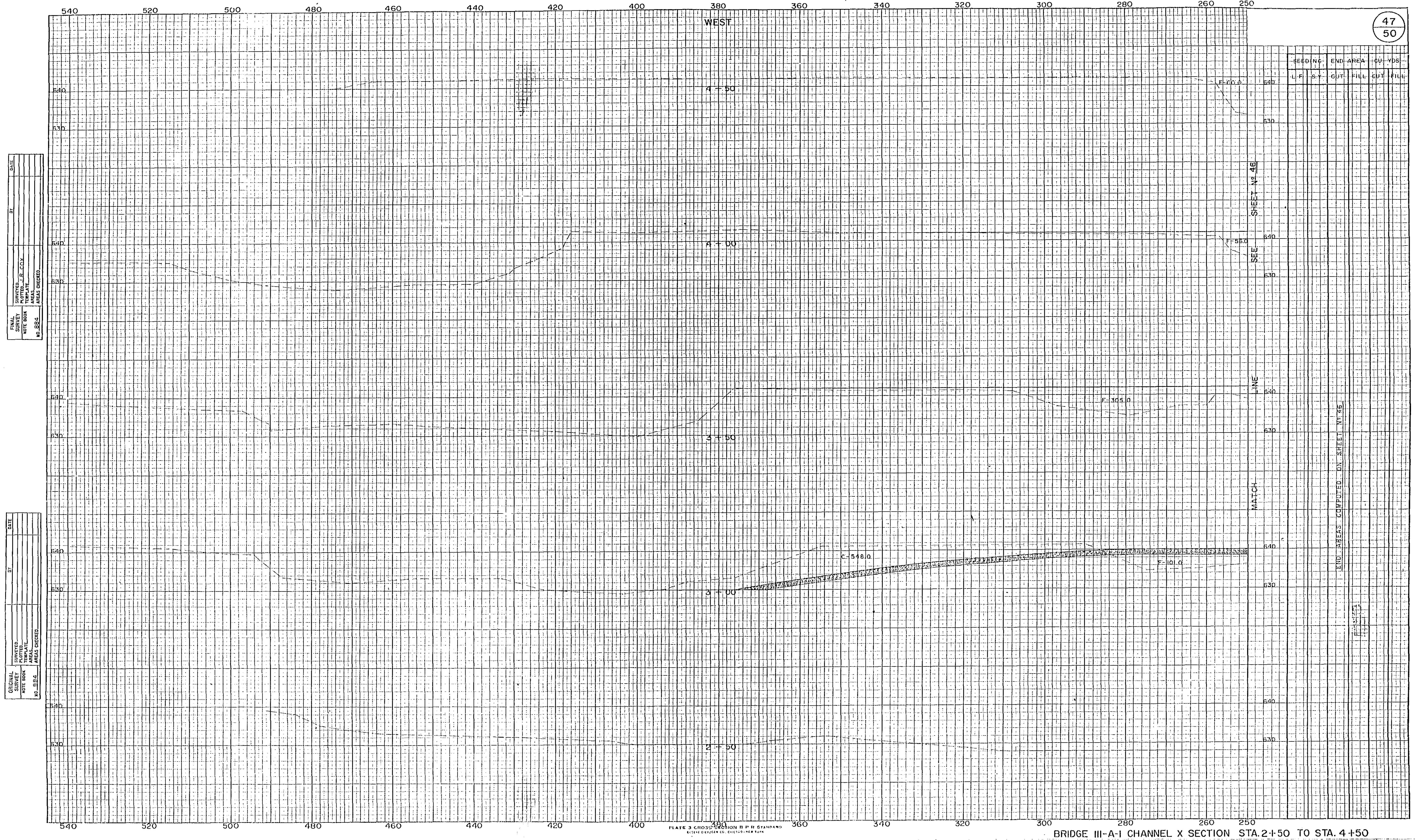
BRIDGE III-A-1 CHANNEL X SECTION STA. 0+0 TO STA. 2+08.39

FINAL	DATE
SURVEY	BY
NOTE BOOK	
NO. 884	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	
NO. 884	



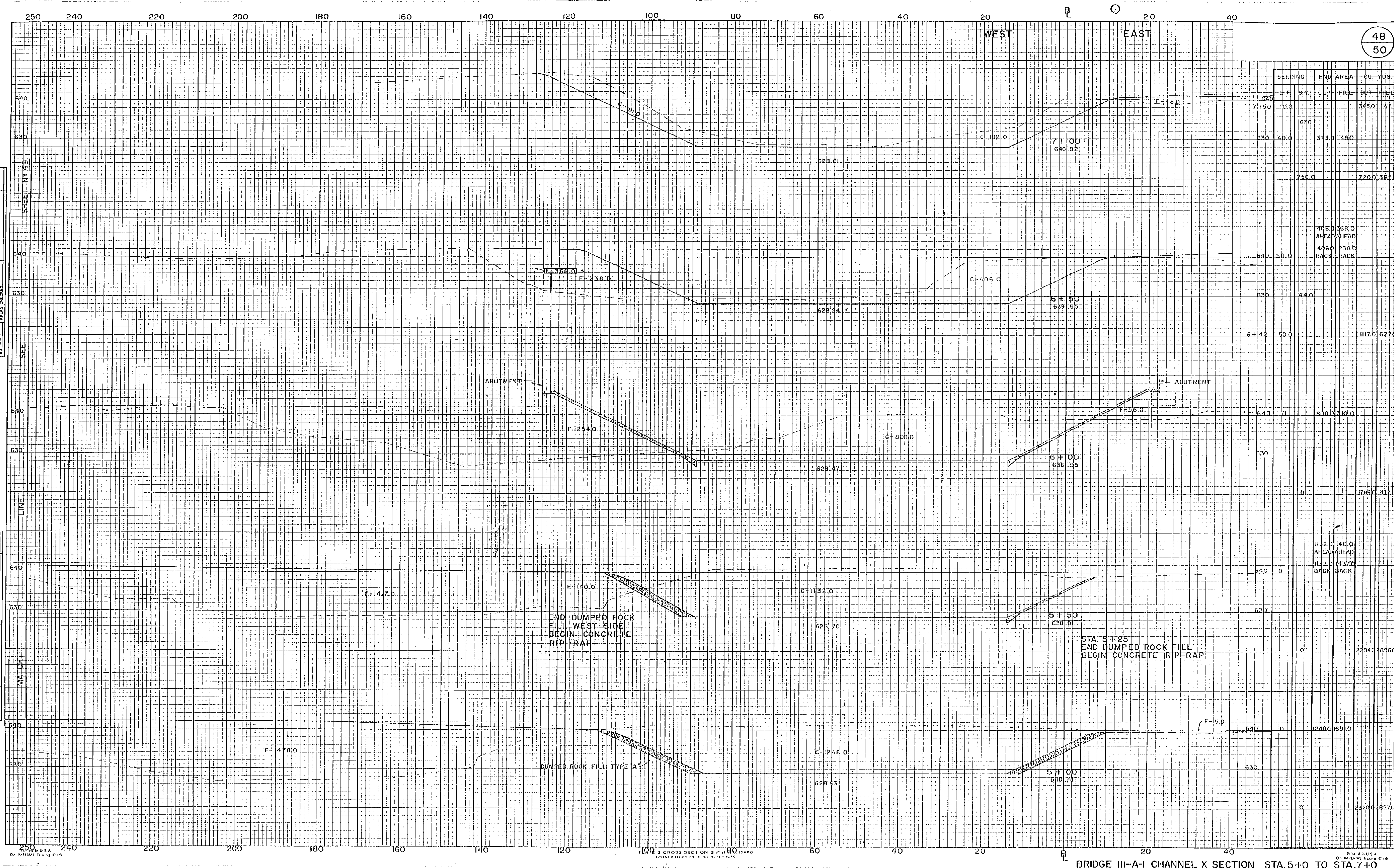
BRIDGE III-A-1 CHANNEL X SECTION STA. 2+50 TO STA. 4+50



BRIDGE III-A-1 CHANNEL X SECTION STA. 2+50 TO STA. 4+50

FINAL SURVEY	DATE
NOTED	BY
NO. 884	J.R. COX
NO. 884	

ORIGINAL SURVEY	DATE
NOTED	BY
NO. 884	
NO. 884	



STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

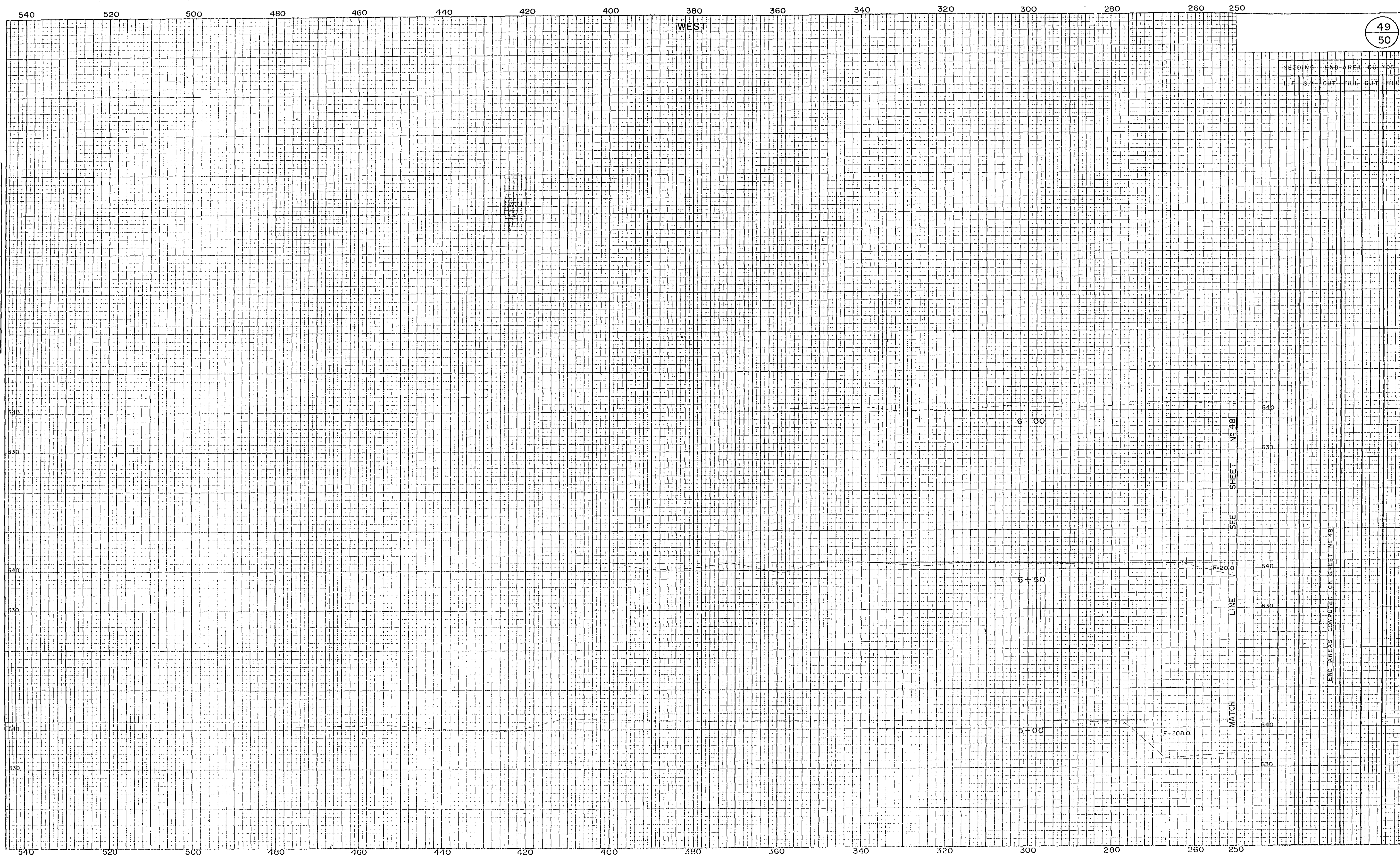
STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

STATION	END AREA	CUT	FILL	CUT	FILL
5+0	145.0	145.0	145.0	145.0	145.0
5+50	167.0	167.0	167.0	167.0	167.0
6+00	173.0	173.0	173.0	173.0	173.0
6+50	250.0	250.0	250.0	250.0	250.0
7+00	720.0	720.0	720.0	720.0	720.0

BRIDGE III-A-1 CHANNEL X SECTION STA. 5+0 TO STA. 7+0

FINAL	SURVEY	DATE
NOTED	BY	
NOTE BOOK	NO. 884	
AREA CHECKED		

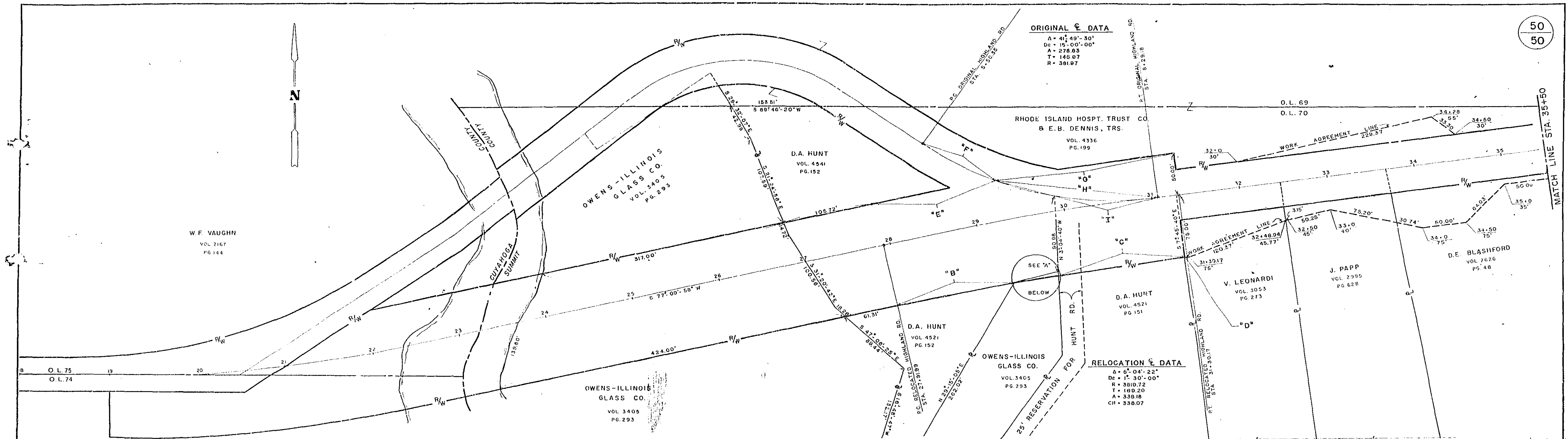
ORIGINAL	SURVEY	DATE
NOTED	BY	
NOTE BOOK	NO. 884	
AREA CHECKED		



SECTION	END AREA	CUT	FILL	CUT	FILL
L.F.	S.Y.	CUT	FILL	CUT	FILL

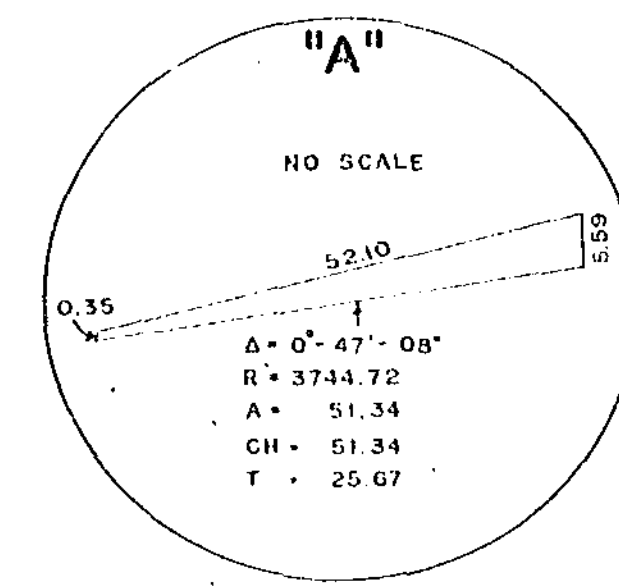
49
50

BRIDGE III-A-1 CHANNEL X SECTION STA. 5+0 TO STA. 6+0

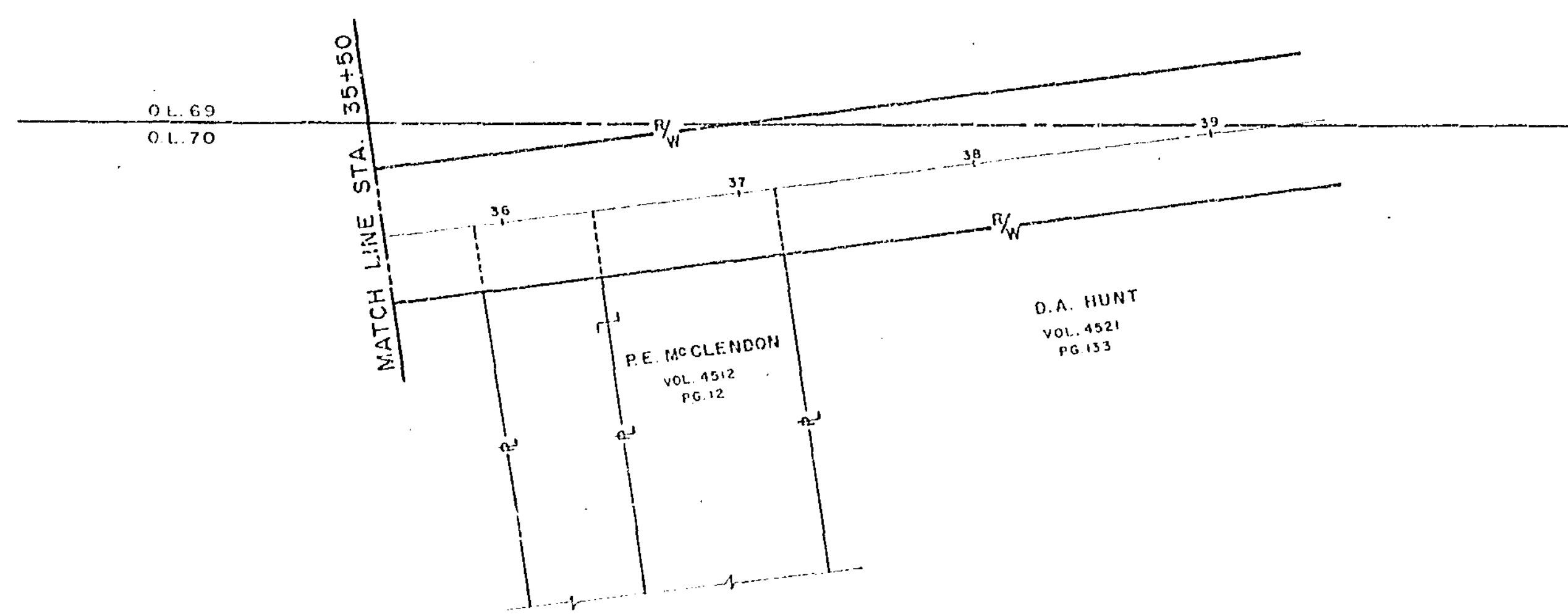


ORIGINAL C DATA
 $\Delta = 41^{\circ} 49' - 30''$
 $D_c = 15^{\circ} 00' - 00''$
 $A = 278.63$
 $T = 146.07$
 $R = 381.07$

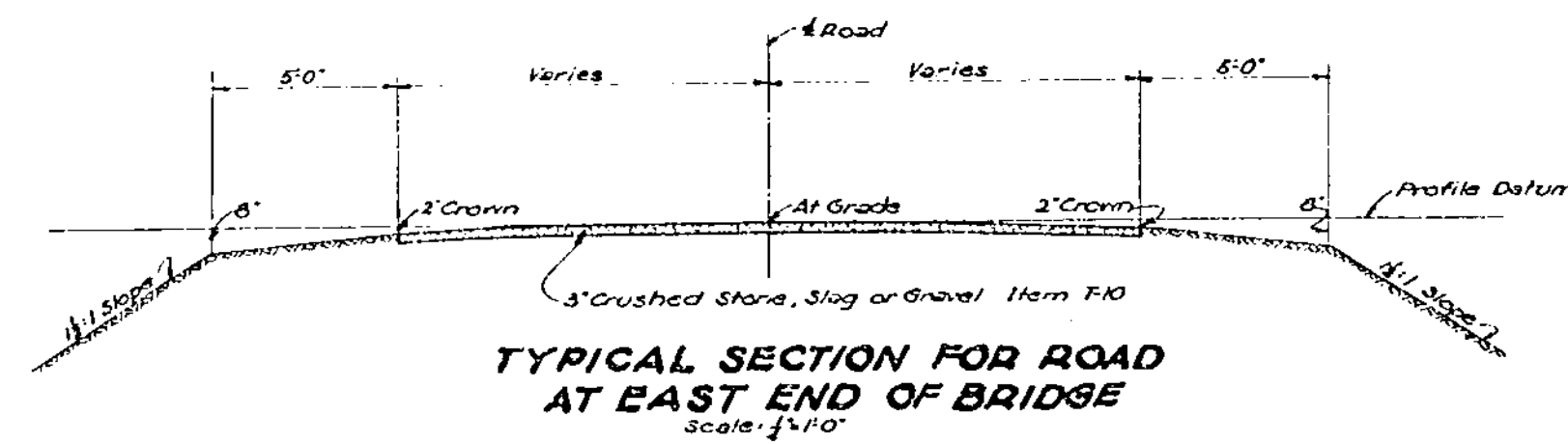
RELOCATION C DATA
 $\Delta = 6^{\circ} 04' - 22''$
 $D_c = 1^{\circ} 30' - 00''$
 $R = 381.07$
 $T = 146.07$
 $CH = 338.07$



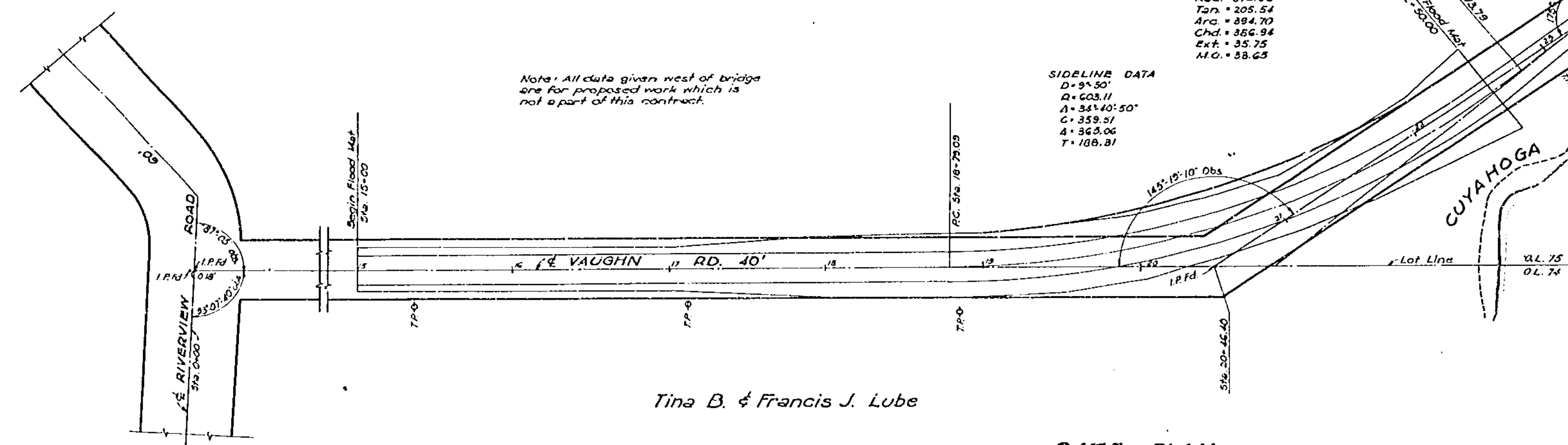
"B"	"C"	"D"	"E"
$\Delta = 2^{\circ} 01' - 10''$ $R = 3744.72$ $A = 132.15$ $CH = 132.14$ $T = 66.08$	$\Delta = 2^{\circ} 12' - 57''$ $R = 3744.72$ $A = 144.82$ $CH = 144.81$ $T = 72.42$	$\Delta = 0^{\circ} 02' - 58''$ $R = 3744.72$ $A = 3.23$ $CH = 3.23$ $T = 1.62$	$\Delta = 2^{\circ} 04' - 22''$ $R = 3660.72$ $A = 139.09$ $CH = 139.09$ $T = 70.00$
"F"	"G"	"H"	"I"
$\Delta = 13^{\circ} 49' - 46''$ $R = 381.07$ $A = 92.23$ $CH = 91.97$ $T = 46.22$	$\Delta = 3^{\circ} 00' - 00''$ $R = 3889.72$ $A = 202.62$ $CH = 202.60$ $T = 101.33$	$\Delta = 27^{\circ} 50' - 44''$ $R = 381.07$ $A = 186.60$ $CH = 184.79$ $T = 95.22$	$\Delta = 17^{\circ} 49' - 10''$ $R = 381.07$ $A = 118.80$ $CH = 118.32$ $T = 59.68$



BRIDGE III-A-1	
RIGHT-OF-WAY PLAN	
SUMMIT COUNTY ENGINEERING DEPARTMENT COURT HOUSE AKRON, OHIO R. VANBRIMMER COUNTY ENGINEER	
DRAWN BY R.A.F. SUBMITTED BY B.J. CAMPBELL APPROVED BY	SCALE 1" = 50'-0" DATE SEPT 1966 FIELD BOOK TRACED BY



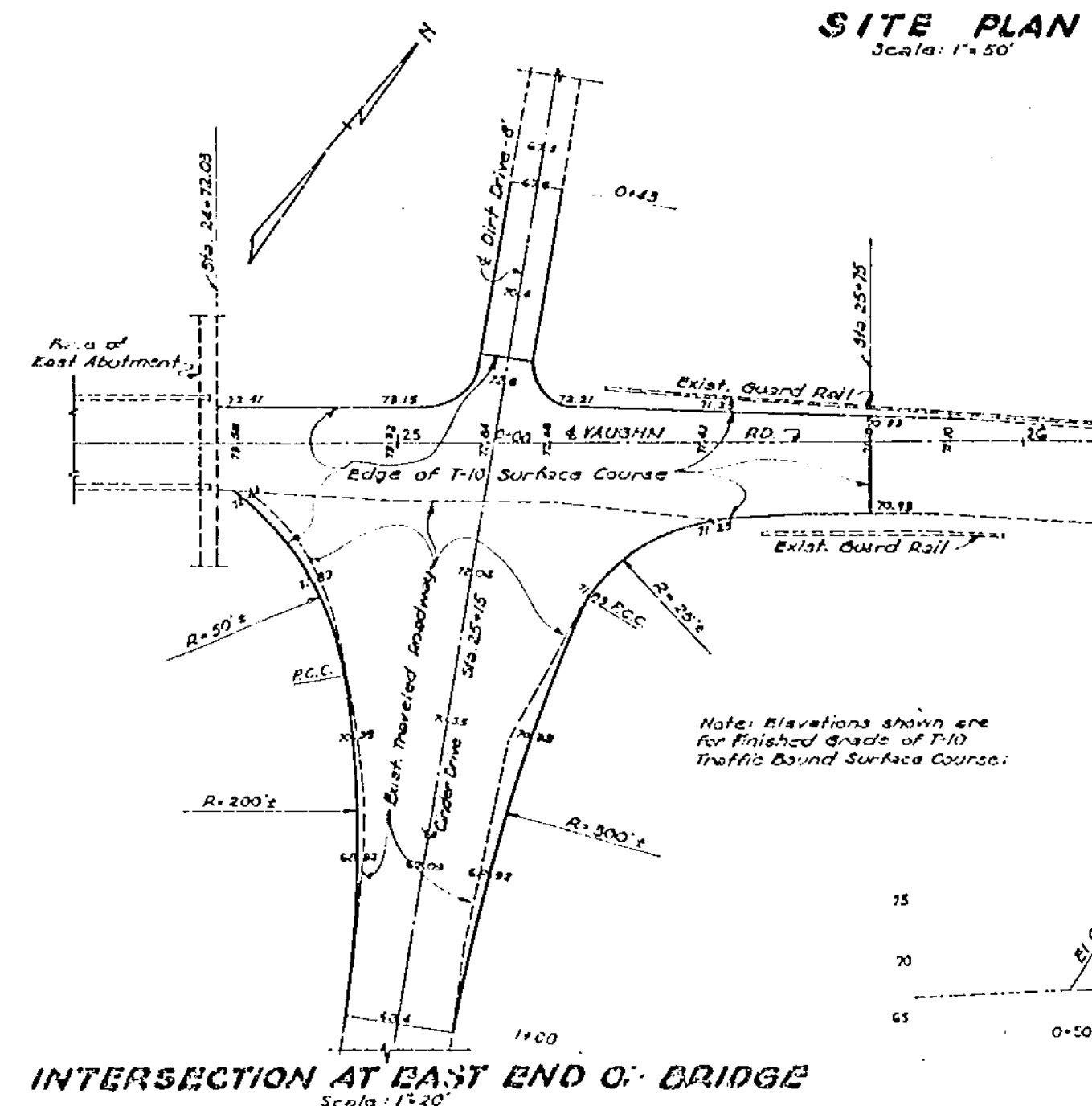
Richard & Edward Vaughn, & Edward G. Krauss



Tina B. & Francis J. Lube

ESTIMATED QUANTITIES

Item No		
E-1	Roadway Embankment	400 Cu. Yds.
E-2	Excavation for Structures	25 Cu. Yds.
T-10	Traffic Band Surface Course	45 Cu. Yds.
S-1	Concrete for Structures (1-1/2" Mix)	22 Cu. Yds.
S-3	Type "A" Waterproofing	21 Sq. Yds.
S-4	Reinforcing Steel (M-71 Int. Gr.)	1200 Lbs.
S-7(5)	Structural Steel	27500 Lbs.
S-8(5)	Painting	Lump Sum
S-7(5)	Roller Assembly - Complete in Place	Lump Sum
S-13(5)	Grassseed Strip Floor	Lump Sum
S-22(5)	Removal of Portions of Existing Structure	Lump Sum
Spl	Skilled Labor	150 Hrs.
Spl	Common Labor	150 Hrs.
Spl	Premium on Industrial Insurance	Lump Sum
Spl	Lights - Signs - Barricades	Lump Sum



PROFILE ON & BRIDGE

SCALE: 1" = 50' HORIZ.; 1" = 10' VERT.

BUILT BY CONTRACT

PROFILE ON & CINDER DRIVE

SCALE: 1" = 20' HORIZ.; 1" = 10' VERT.

NEW BRIDGE BUILT 1967
ON NEW ALIGNMENT
2400' EAST OF RIVERVIEW RD.

COUNTY OF CUYAHOGA
JOHN O. Mc WILLIAMS
COUNTY ENGINEER
BRIDGE DEPT.

Approved: *James R. Blaine*
Land Department

Date: 9-10-39

Approved: *Clarence*
Road Department

Date: 9/28/39

Approved: *W.C. Cassaday*
Summit County Engineer

Date: 9/21/39

Approved: *W.B. Ryerson*
Summit County Commissioner

Date: Oct. 16, 1939

Approved: *W.B. Ryerson*
Summit County Commissioner

Date: 9/28/39

Approved: *W.B. Ryerson*
Summit County Commissioner

Date: 9/28/39

Approved: *A.S. Davis*
Chief Deputy Engineer

Date: 9/30/39

Approved: *John O. Mc Williams*
County Engineer

Date: 9/28/39

Approved: *John Reynolds*
County Commissioner

Date: 9/24/39

Approved: *John Reynolds*
County Commissioner

Date: 9/24/39

Approved: *John Reynolds*
County Commissioner

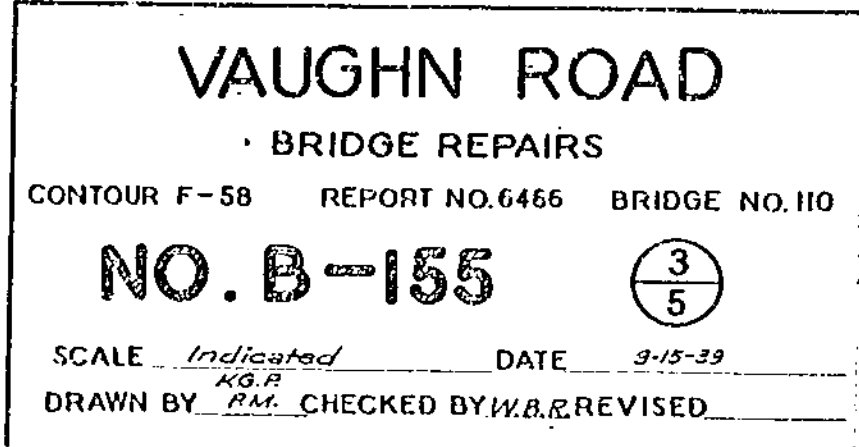
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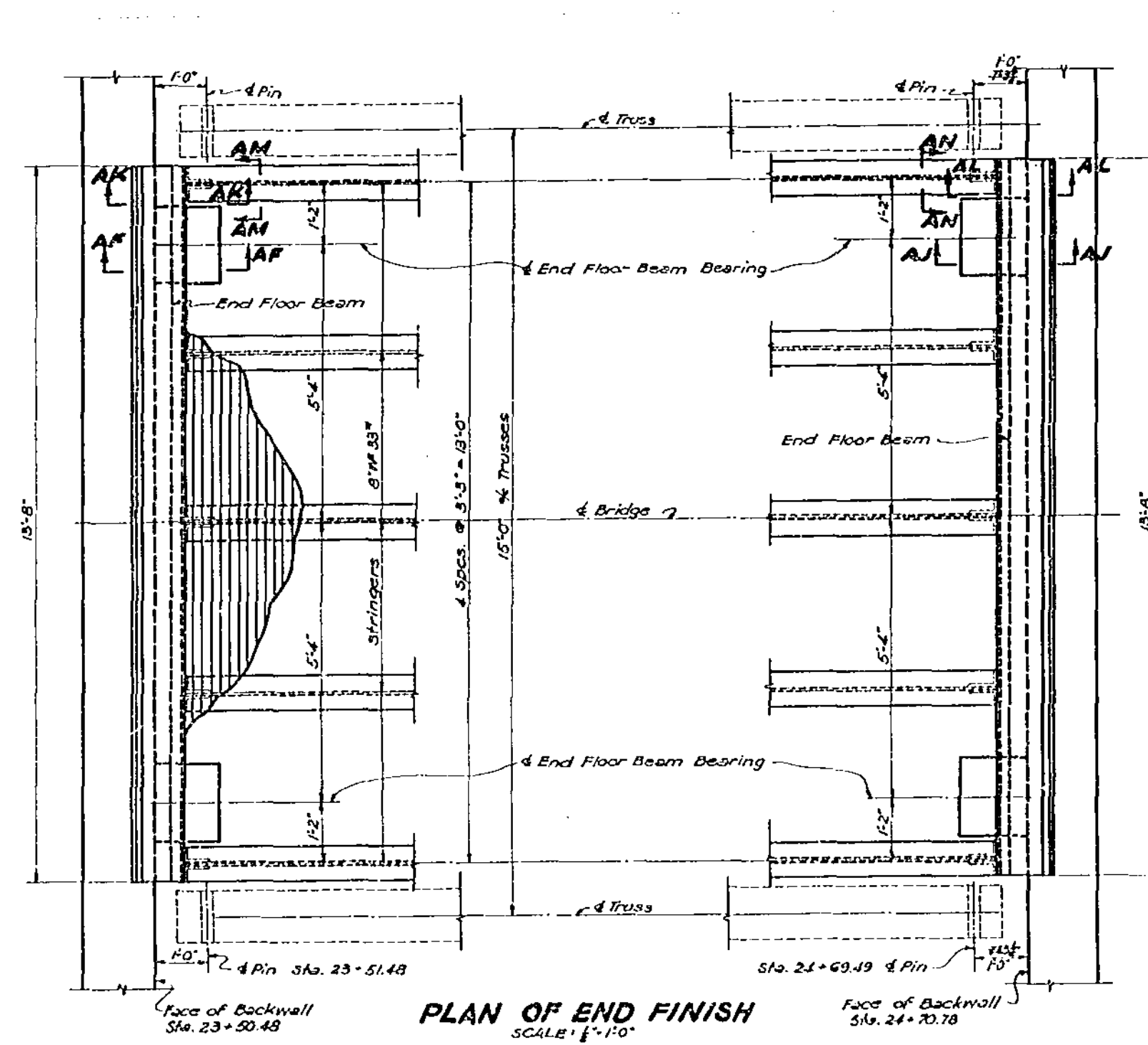
VAUGHN ROAD
BRECKSVILLE VILLAGE
BRIDGE REPAIRS
BRIDGE OVER CUYAHOGA RIVER
CONTOUR F-58 REPORT NO. 6466 BRIDGE NO. 110

NO. B-155

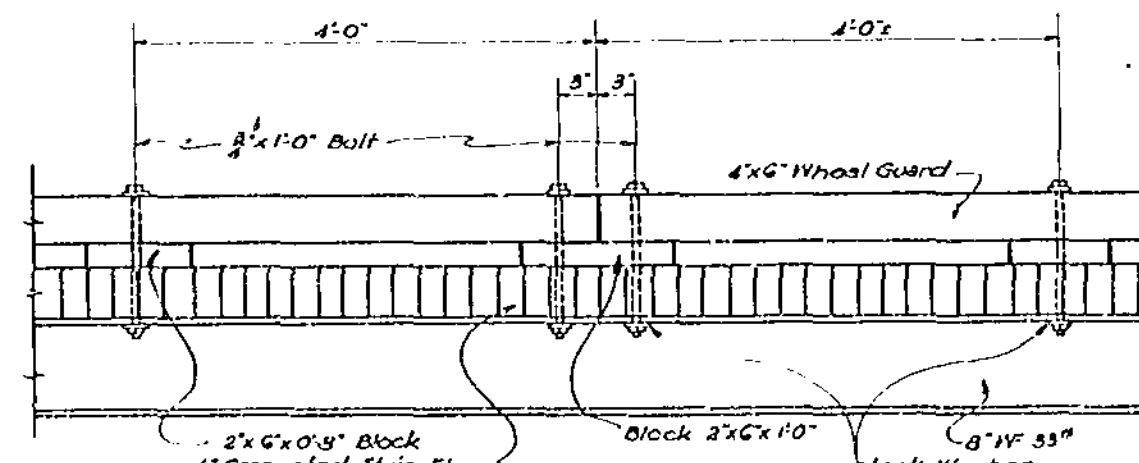
1/5

SCALE: Indicated DATE: 9-15-39
DRAWN BY: J.B.S. CHECKED BY: R.M. REVISED:

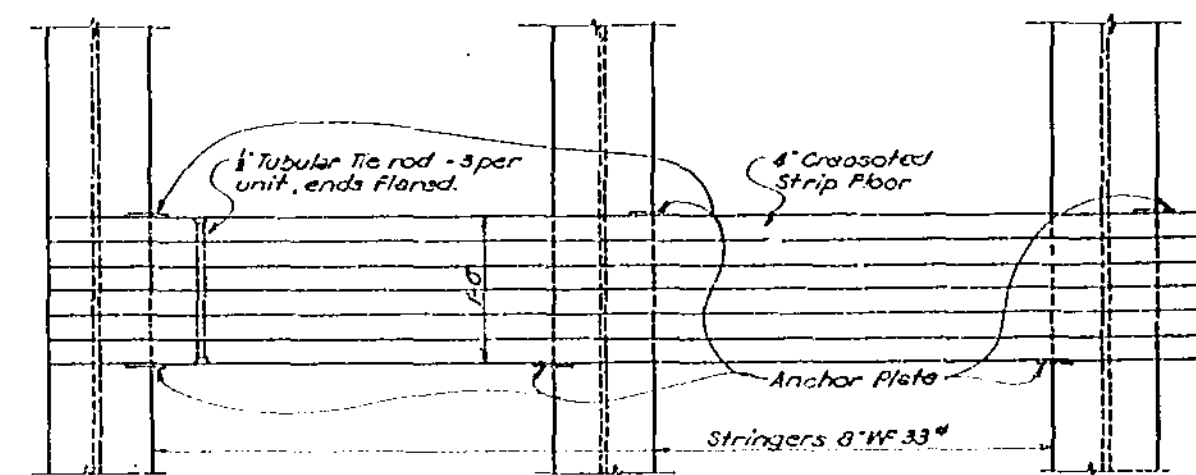




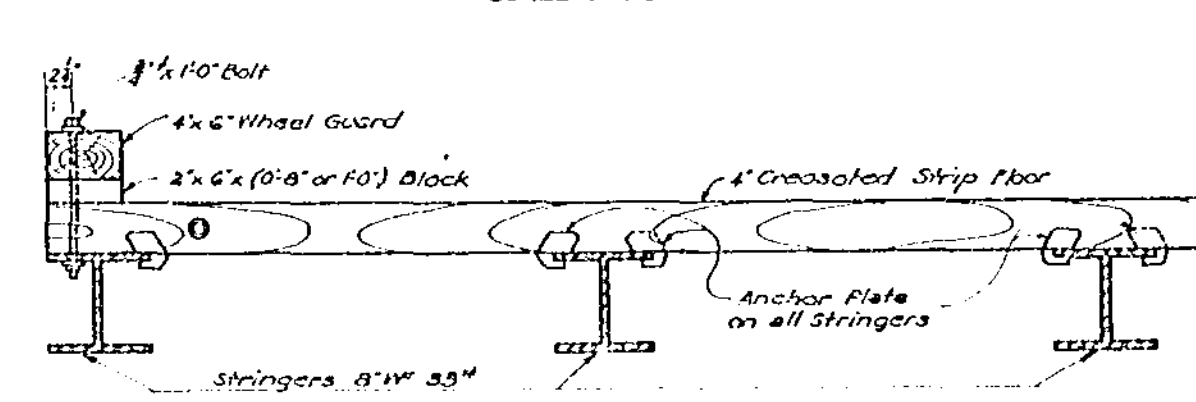
SECTION OF FLOOR UNIT
SCALE: 1/4"



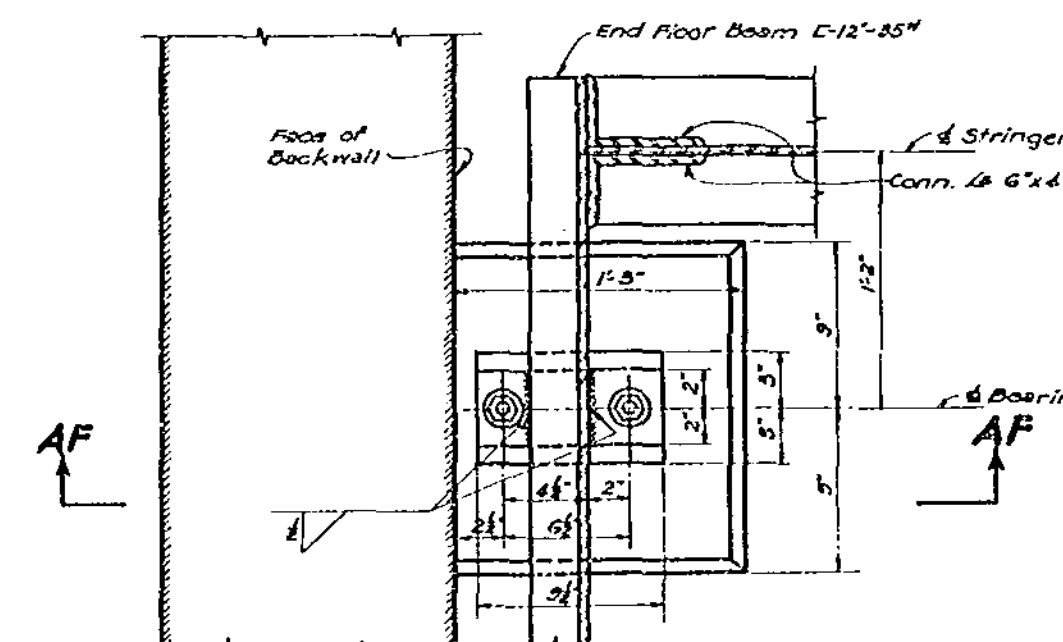
DETAIL OF WHEEL GUARD JOINT
SCALE: 1/4"



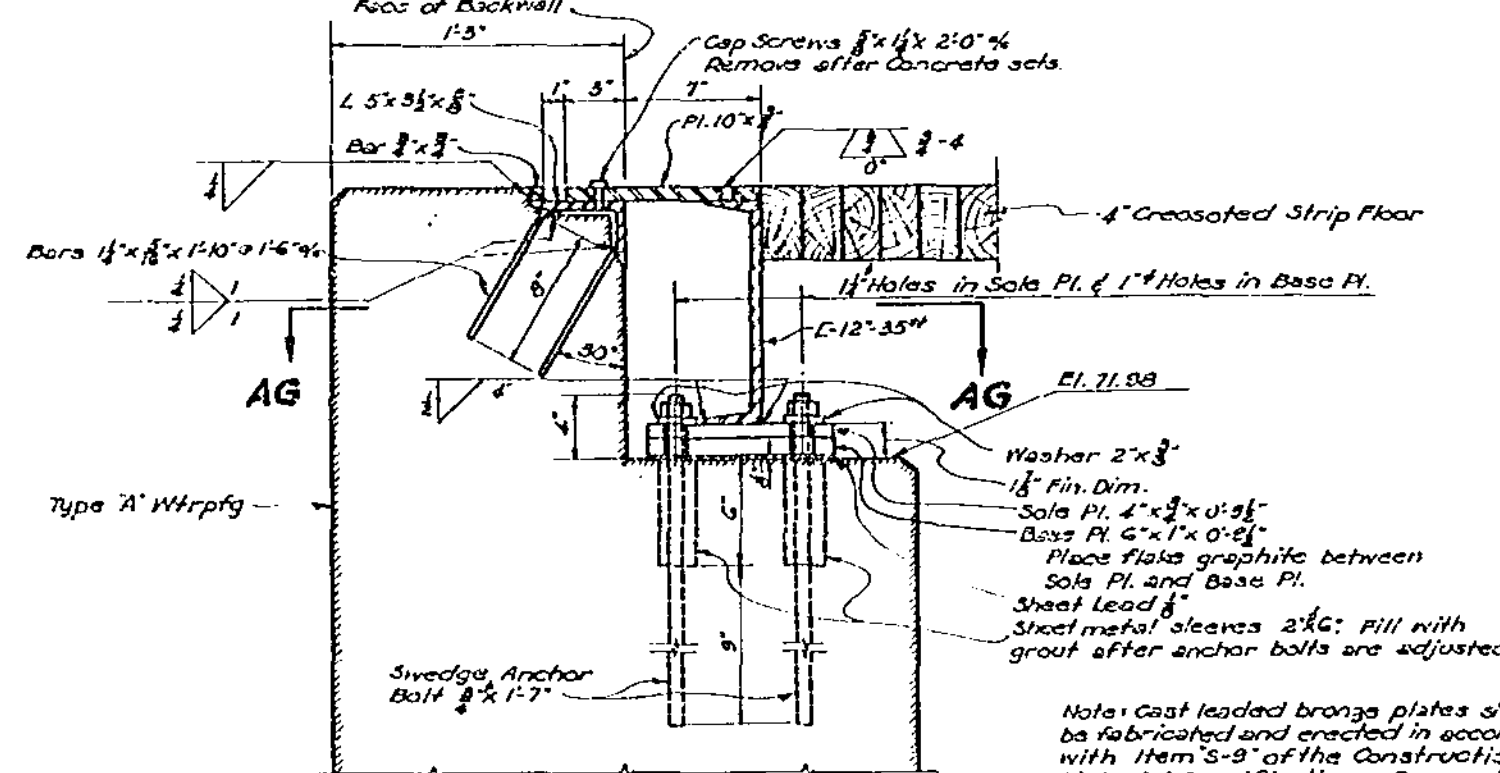
PLAN OF FLOOR UNIT
SCALE: 1/4"



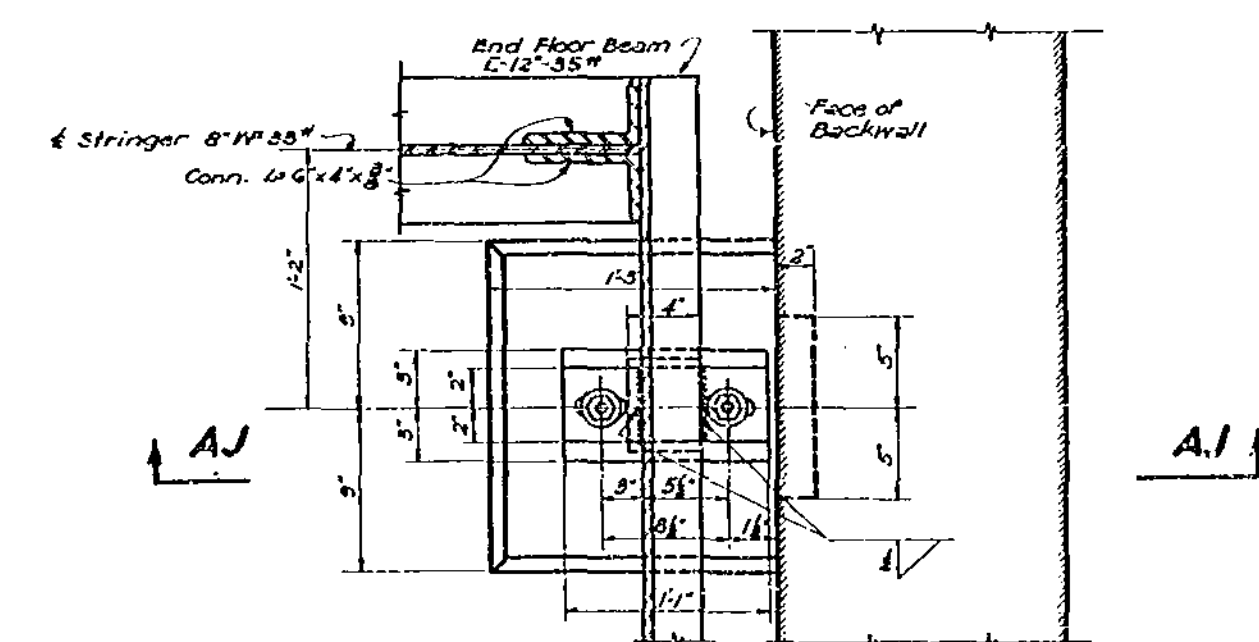
ELEVATION OF FLOOR UNIT
SCALE: 1/4"



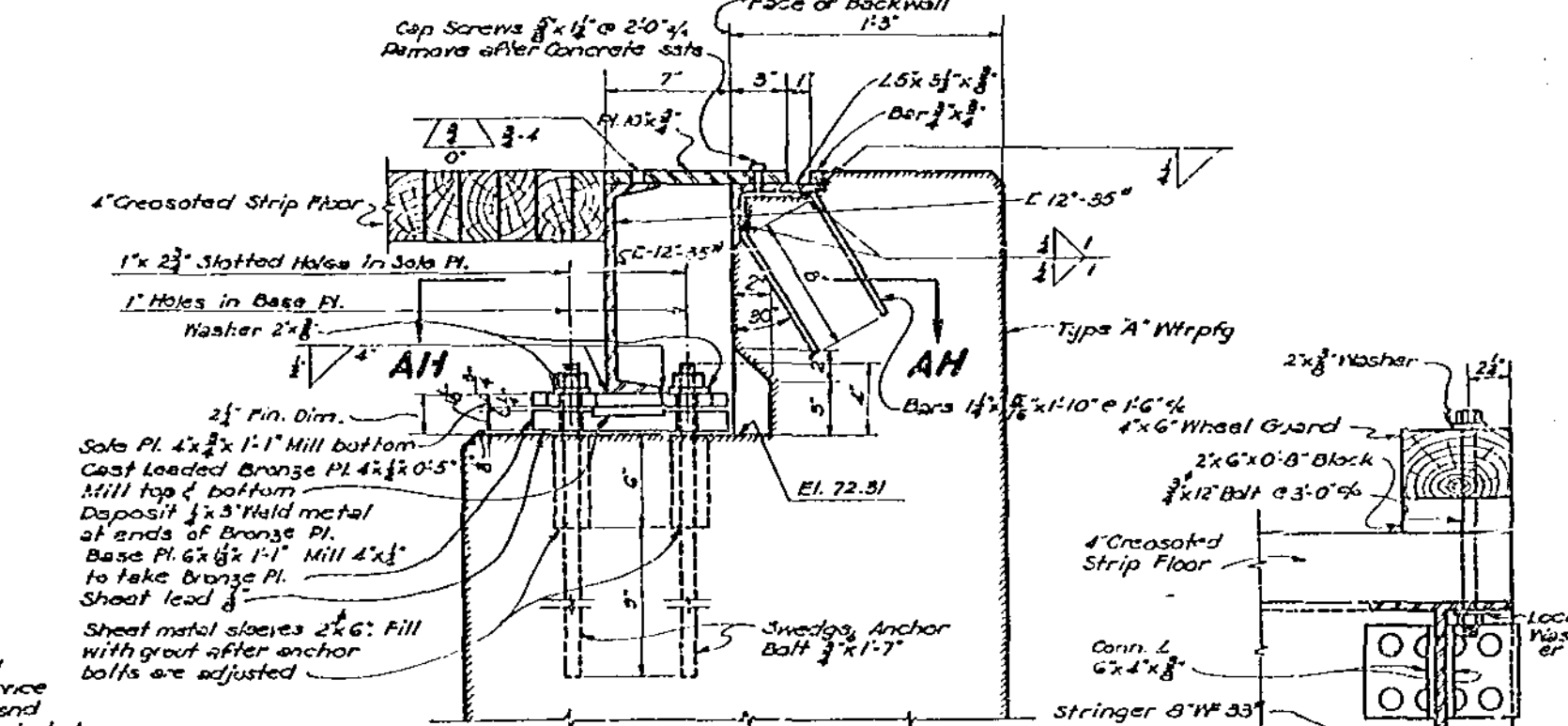
SECTION AG-AG
SCALE: 1/4"



FIXED BEARING
SECTION AF-AF
SCALE: 1/4"

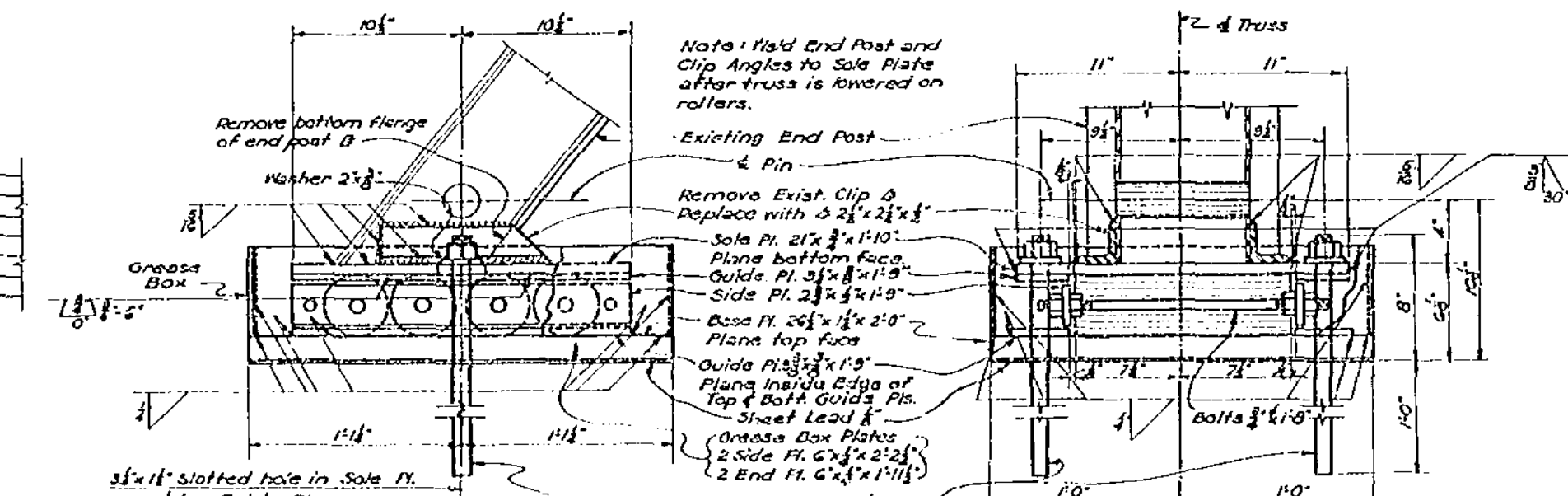


SECTION AH-AH
SCALE: 1/4"



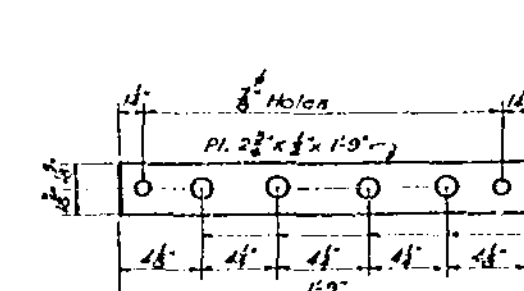
EXPANSION BEARING
SECTION AJ-AJ
SCALE: 1/4"

END FINISH AND
BEARING DETAILS FOR END FLOOR BEAMS
SCALE: 1/4"

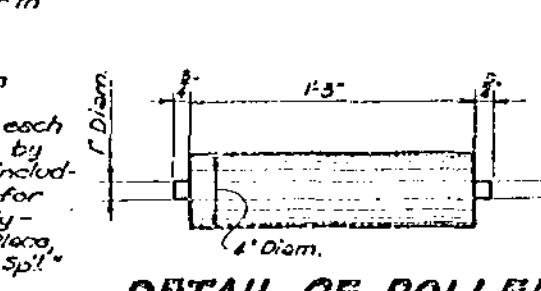


SIDE ELEVATION
SCALE: 1/4"

END ELEVATION
SCALE: 1/4"



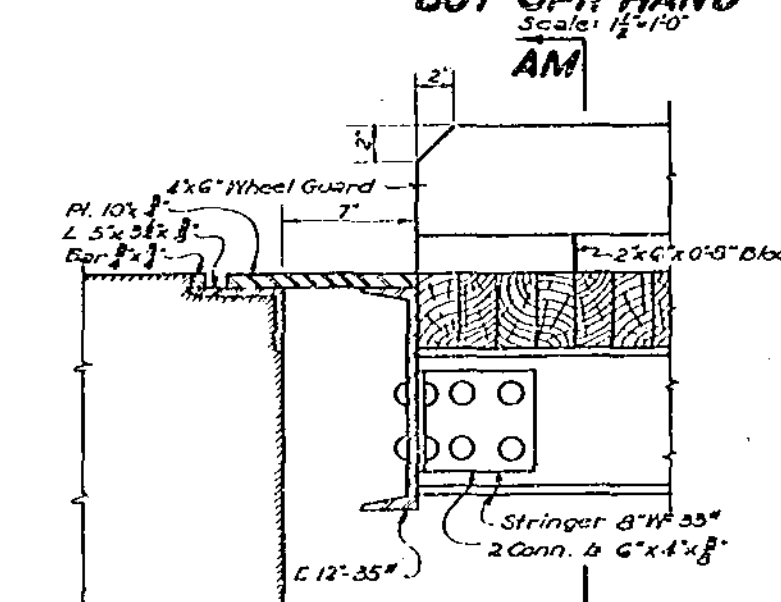
DETAIL OF SIDE PLATE
SCALE: 1/4"



DETAIL OF ROLLER
SCALE: 1/4"

ROLLER ASSEMBLY DETAIL
SCALE: 1/4"

SEC. AM-AM
SEC. AN-AN SIMILAR
BUT OPP HAND
SCALE: 1/4"



SEC. AK-AK
SEC. AL-AL SIMILAR
BUT OPP HAND
SCALE: 1/4"

VAUGHN ROAD

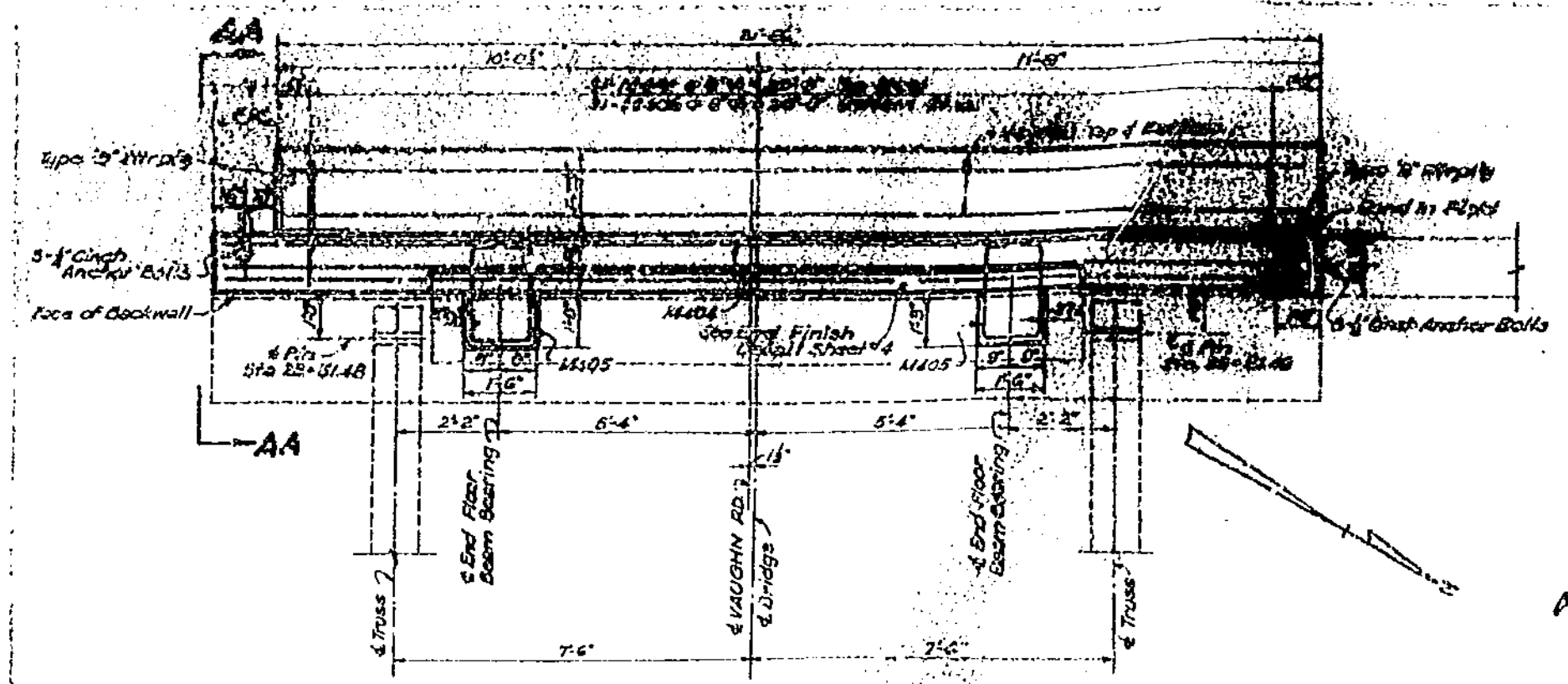
BRIDGE REPAIRS

CONTOUR F-58 REPORT NO. 6466 BRIDGE NO. 110

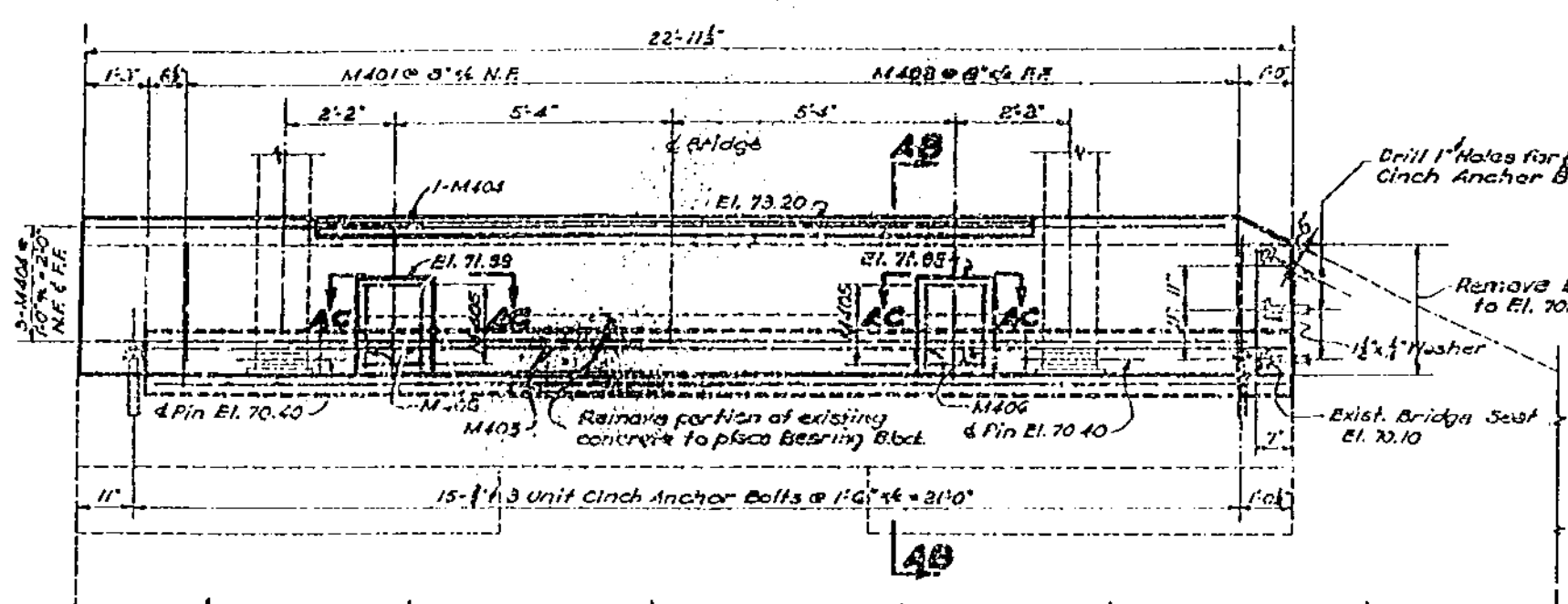
NO. B-155

4/5

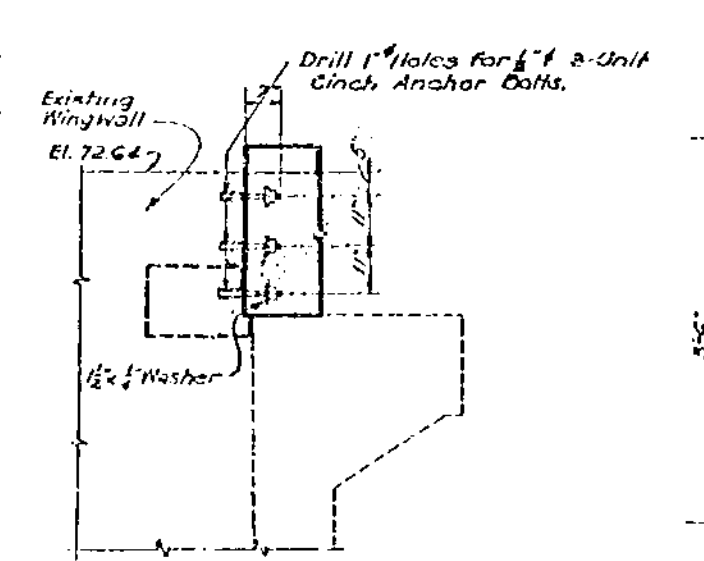
SCALE Indicated DATE 9-15-39
DRAWN BY H. B. G. CHECKED BY R. M. G. REVISED



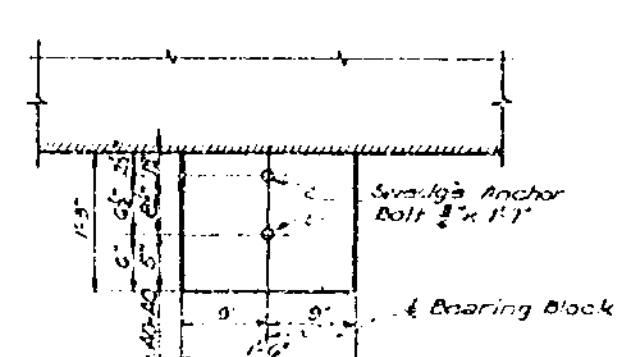
PLAN OF WEST BACKWALL
ANCHOR BOLTS NOT SHOWN
Scale: 1/4" = 1'-0"



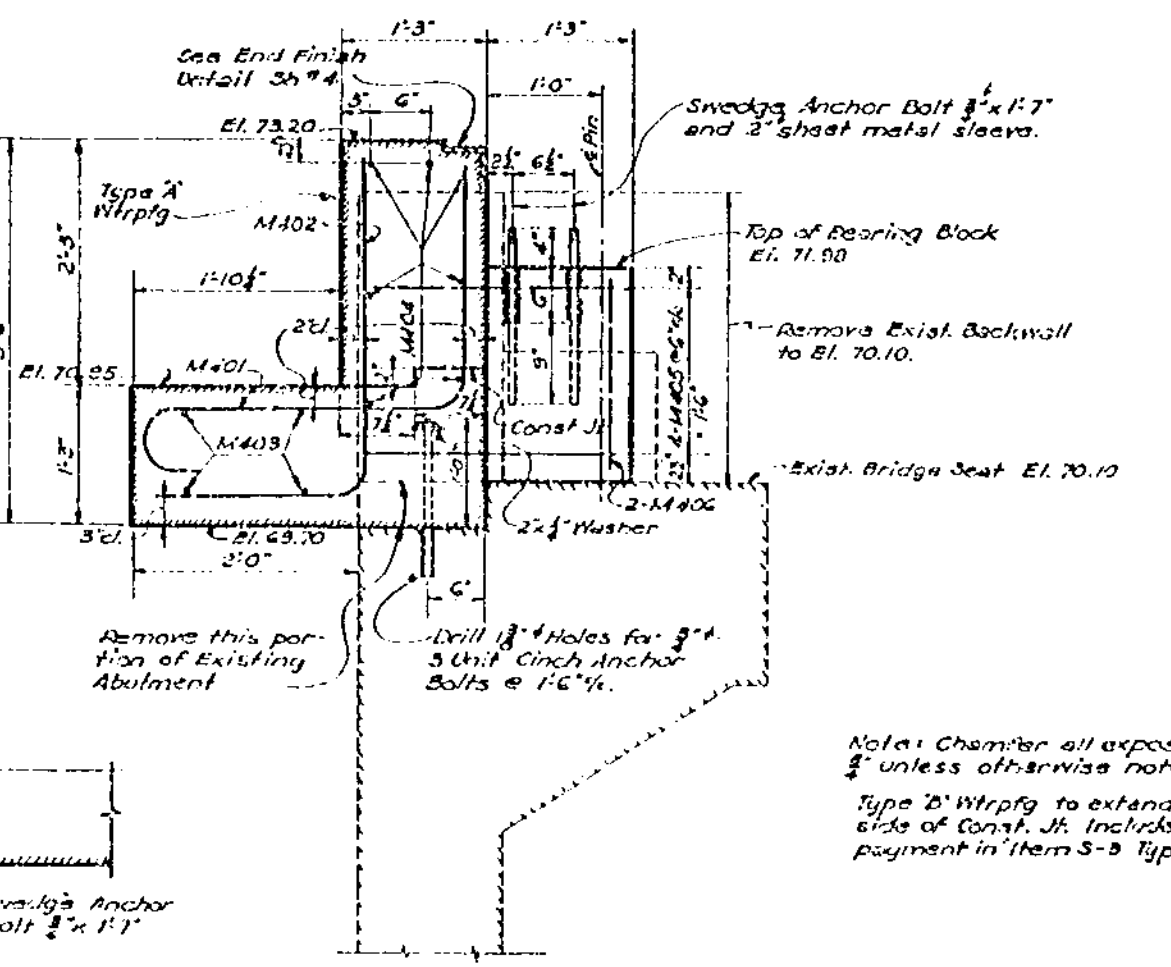
ELEVATION
ANCHOR BOLTS NOT SHOWN
Scale: 1/4" = 1'-0"



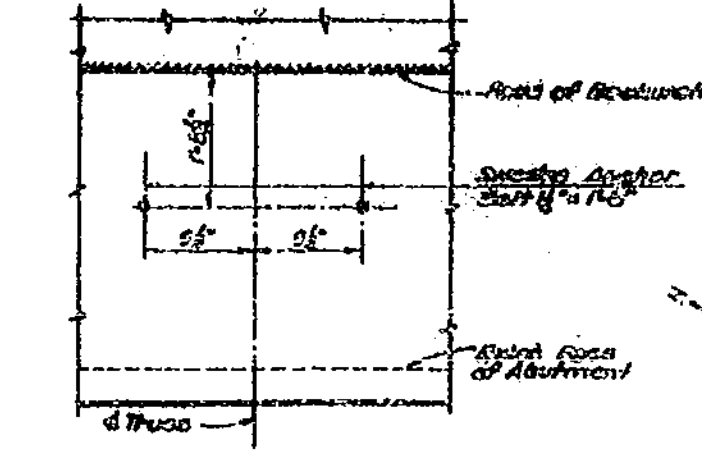
ELEVATION AA-AA
Scale: 1/4" = 1'-0"



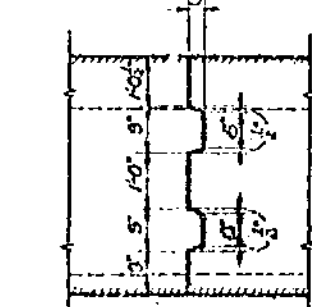
SECTION AC-AC
SEC. AD-AD AS SHOWN & NOTED
REIN. STEEL NOT SHOWN
Scale: 1/4" = 1'-0"



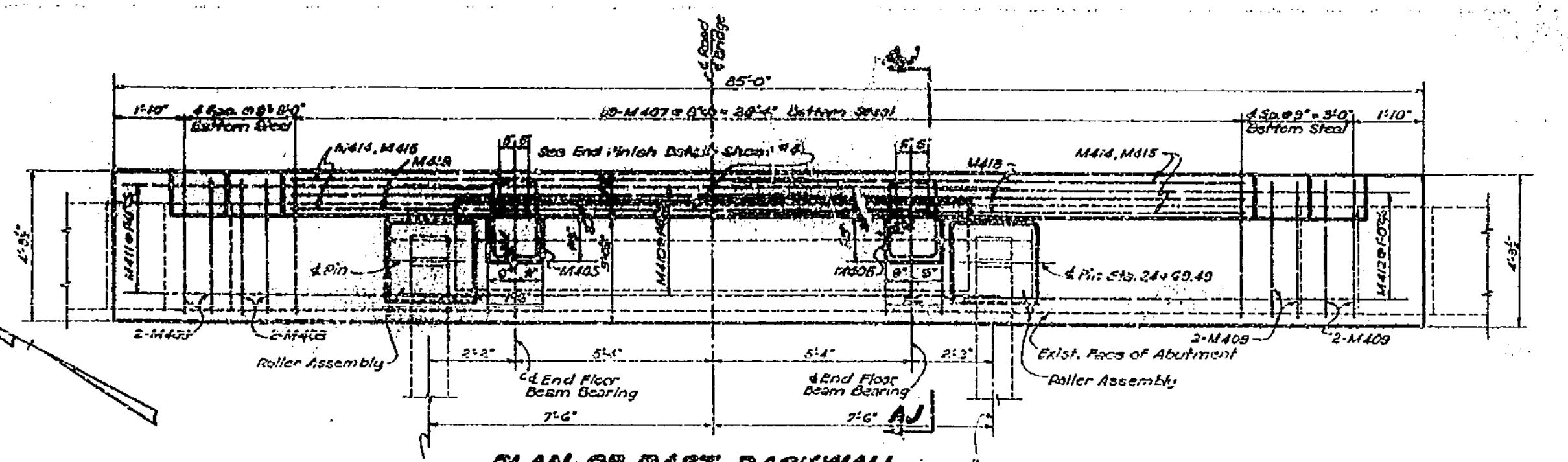
SECTION AB-AB
Scale: 1/4" = 1'-0"



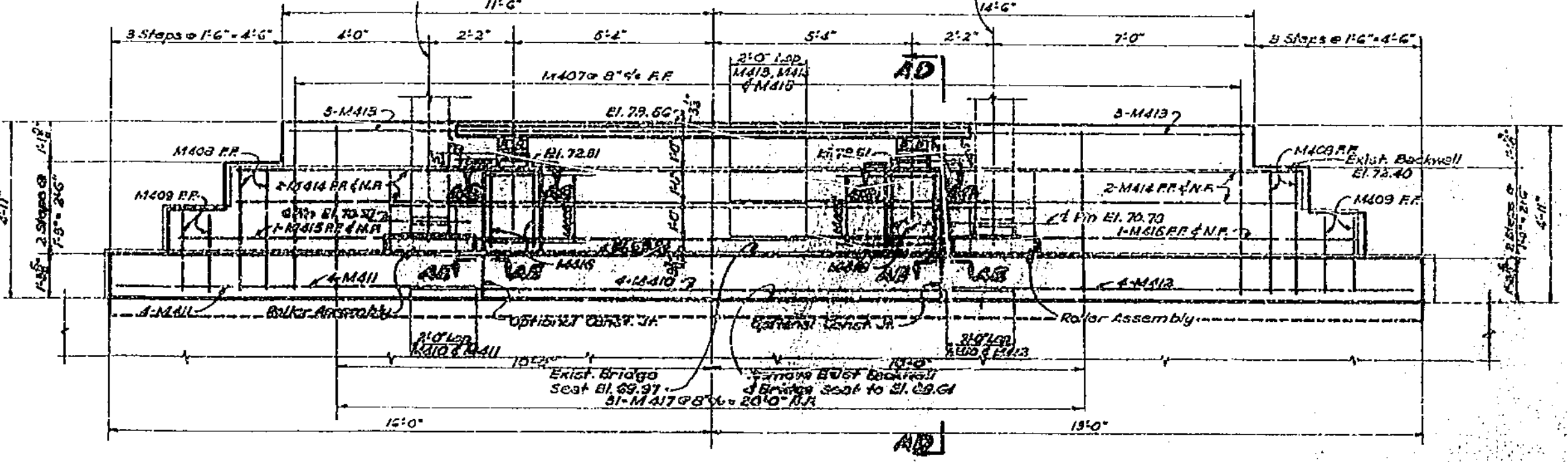
ANCHOR BOLT TEMPLATE
FOR ROLLER ASSEMBLY
Scale: 1/4" = 1'-0"



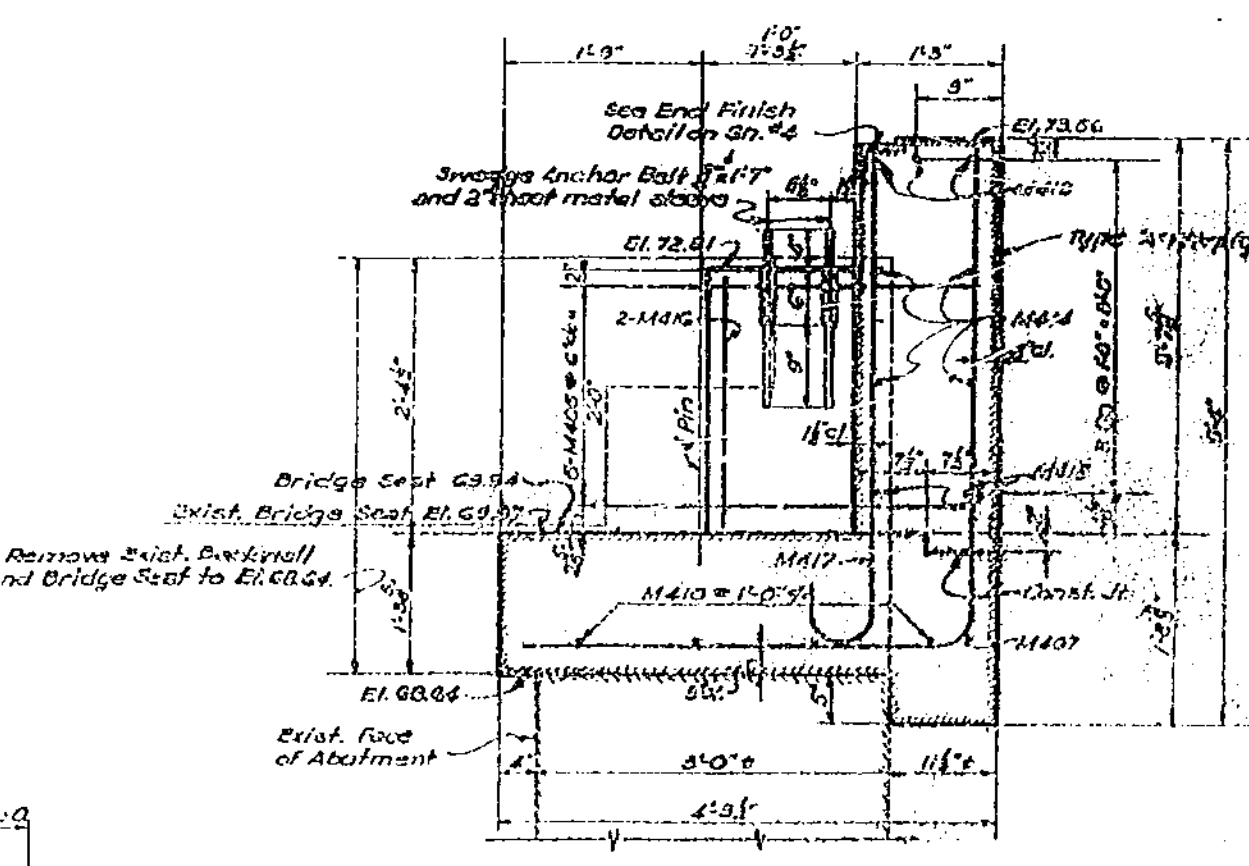
SECTION AE-AE
Scale: 1/4" = 1'-0"



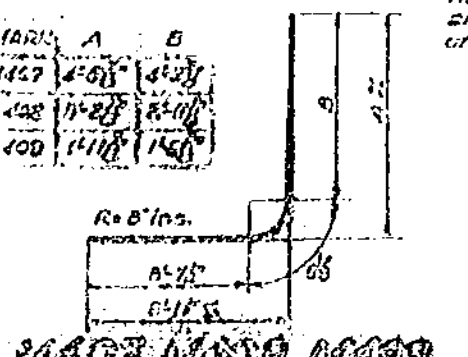
PLAN OF EAST BACKWALL
ANCHOR BOLTS NOT SHOWN
Scale: 1/4" = 1'-0"



ELEVATION
ANCHOR BOLTS NOT SHOWN
Scale: 1/4" = 1'-0"



SECTION AD-AD
Scale: 1/4" = 1'-0"



SECTION AE-AE
Scale: 1/4" = 1'-0"

Notes: Figures shown in red indicate revisions made in field.

MARK	NO.	DATE	REVISION	DESCRIPTION
101	1	1/1/58	Shown	Roller Assembly Backwall
102	2	1/1/58	0	
103	3	1/1/58	0	
104	4	1/1/58	0	
105	5	1/1/58	0	
106	6	1/1/58	0	
107	7	1/1/58	0	
108	8	1/1/58	0	
109	9	1/1/58	0	
110	10	1/1/58	0	
111	11	1/1/58	0	
112	12	1/1/58	0	
113	13	1/1/58	0	
114	14	1/1/58	0	
115	15	1/1/58	0	
116	16	1/1/58	0	
117	17	1/1/58	0	

VAUGHN ROAD
BRIDGE REPAIRS
CONTOUR F-58 REPORT NO. 6165 BRIDGE NO. 110
NO. B-155
SCALE: 1/4" = 1'-0" DATE: 1/1/58
DRAWN BY: [Signature] CHECKED BY: [Signature] REVISED: [Signature]