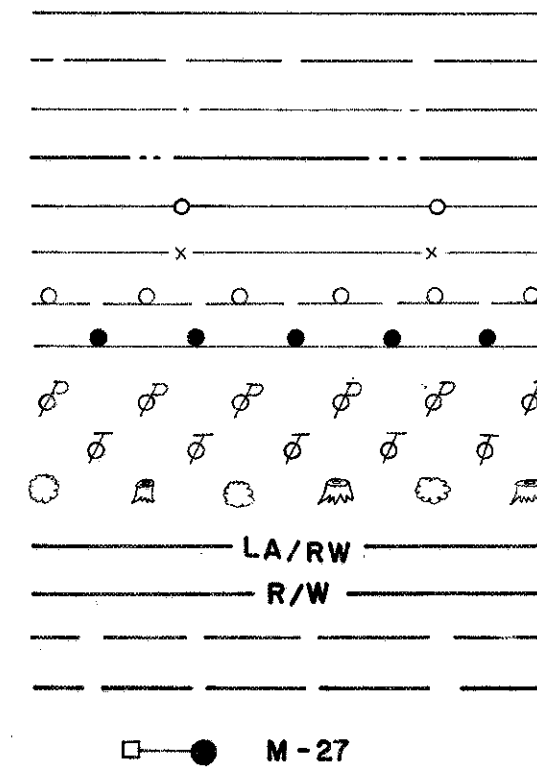


CONVENTIONAL SIGNS

PROPERTY LINE
TOWNSHIP LINE
CENTERLINE
CORPORATION LINE
R/W FENCE (PROPOSED)
FENCE LINE (EXISTING)
GUARD RAIL (EXISTING)
GUARD RAIL (PROPOSED)
POWER POLES
TELEPHONE POLES
TREES AND STUMPS (EXISTING)
LIMITED ACCESS AND RIGHT OF WAY
RIGHT OF WAY ONLY
EXISTING RIGHT OF WAY
CHANNEL CHANGE OR WORK AGREEMENT
PROPOSED LIGHT AND LIGHT POLE



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LINE DATA

BEGIN PROJECT STA. 842 + 59.03
END PROJECT STA. 893 + 87.17
NET LENGTH OF PROJECT 5,128.14 LIN. FT. OR 0.971 MILES

LENGTH OF WORK FROM SHEET NO. 23

TOTAL LENGTH OF WORK 23,477.64 LIN. FT. OR 4.446 MILES

SUPPLEMENTAL SPECIFICATIONS

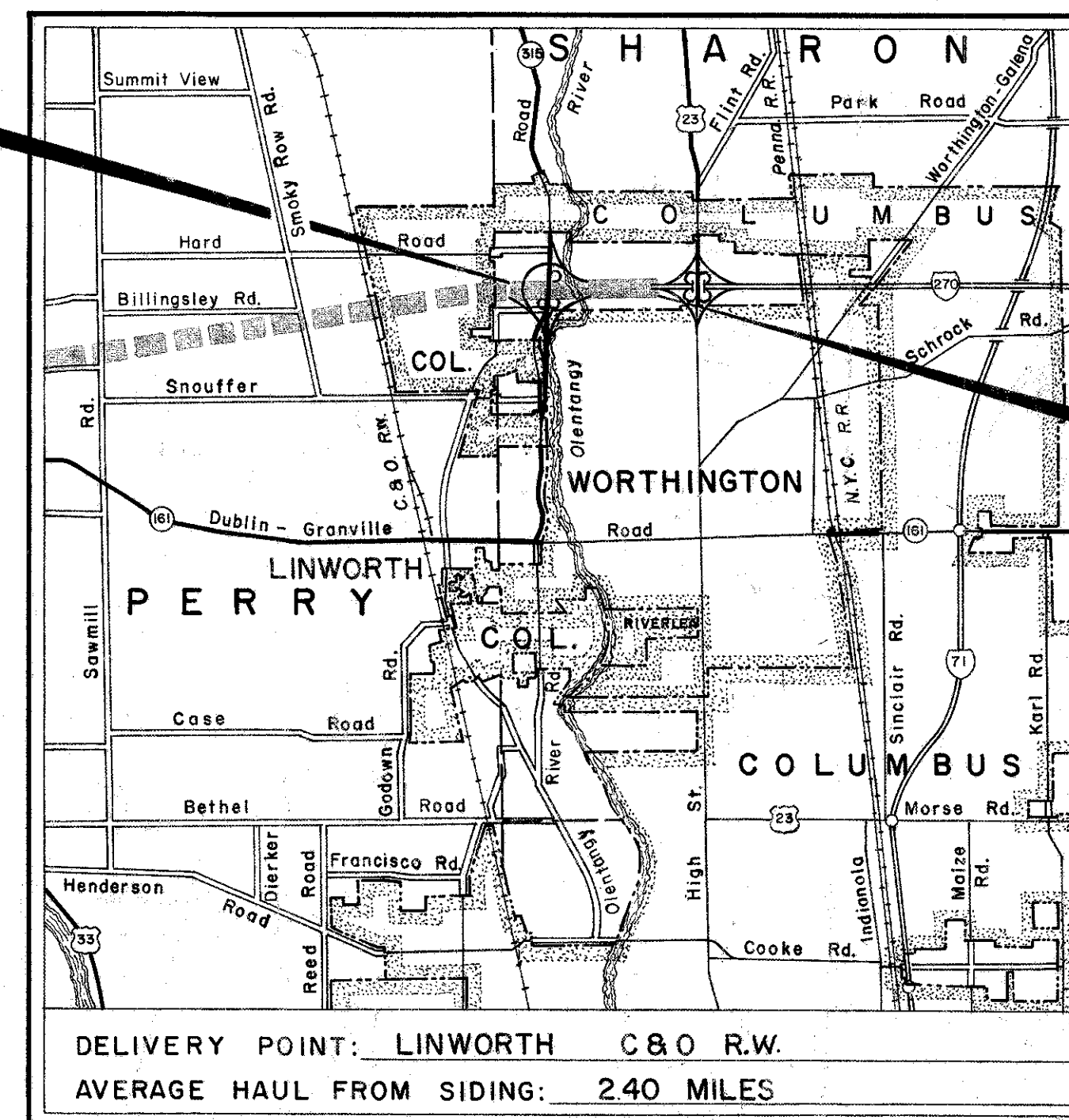
NUMBER	DATE	NUMBER	DATE
801	1-1-67	1001	3-21-66
806	1-1-67	832	5-25-67
815	1-1-67	931	5-25-67
816	8-6-65		
825	1-1-67		
828	1-1-67		
808	1-13-67		
811	1-1-67		

PLANS PREPARED BY
DE LEUW, CATHAR & BRILL-CONSULTING ENGINEERS
COLUMBUS, OHIO NEW YORK, N.Y.

STANDARD DRAWINGS

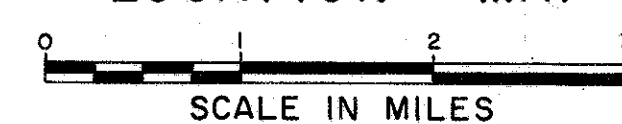
NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE	NUMBER	DATE
AS-1-54	8-10-65	CB 2-2-A&B	6-1-65	F-3	10-1-66	HL-2	11-1-65	MC-3	5-1-66	BR-1-65	11-24-65		
BP-1	6-1-65	CB 2-5 & 2-6	6-1-65	F-5	10-1-66	HL-3	11-1-65	MC-4	6-1-65	RB-1-55	2-2-59		
BP-2	1-10-67	CB-4	6-1-65	F-6	10-1-66	HL-4	1-1-66	MC-5	6-1-65	SD-1-65	11-8-65		
BP-3	1-10-67	CB-5	6-1-65	GR-1	1-1-67	HW-3	6-1-65	MC-6	6-1-65	F-1	6-1-65		
BP-4	1-10-67	CB-6	6-1-65	GR-2A	1-1-67	HW-E	6-1-65	MC-7	3-1-66	MC-8	12-1-67		
BP-5	6-1-65	FACI-1	9-15-67	GR-5B	6-1-65	I-2	6-1-65	MH-1	6-1-65				
BP-6	6-1-65	FACI-2	6-1-65	GR-6	6-1-65	L-1	6-1-65	MH-1A	8-1-66				
BP-7	1-1-66	F-2	6-1-65	HL-1	11-1-65	MC-1	10-1-67	SP-53	6-30-61				

BEGIN PROJECT
STA. 842+59.03
S.L.M. 13.86



DELIVERY POINT: LINWORTH C&O R.W.
AVERAGE HAUL FROM SIDING: 2.40 MILES

LOCATION MAP



PORTION TO BE IMPROVED UNDER THIS CONTRACT

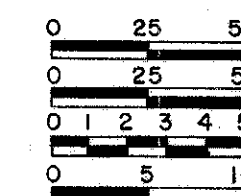
PORTION TO BE IMPROVED UNDER OTHER CONTRACT

STATE ROADS

OTHER ROADS

SCALE:

PLAN
PROFILE: HORIZONTAL
PROFILE: VERTICAL
CROSS SECTIONS



ON MICROFILM
BOX NO.

FILE
C-8

END PROJECT
STA. 893+87.17
S.L.M. 14.83

Revised Sheet Nos. 467 & 469
3-28-68 C.E.H.

Sheet No. 434 revised 5-14-68 EBL

Sheet No. 1, 504, 507, 510, 513 & 514 revised 7-8-68 C.E.H.

Sheet No. 510A, 512A, 513A & 514A added 7-8-68 C.E.H.

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY BY ACTION OF THE DIRECTOR OF HIGHWAYS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE REVISED CODE OF OHIO.

1967 SPECIFICATIONS

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 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 OF THE HIGHWAY TO TRAFFIC AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

CITY OF WORTHINGTON

APPROVED: *W. Shapley, Jr.*

DATE: 9-13-67 CITY MANAGER

CITY OF COLUMBUS

APPROVED: *W. J. Heman*

DATE: 10-30-67 SERVICE DIRECTOR

APPROVED:

DATE: CITY ENGINEER

STATE OF OHIO

APPROVED: *Frank M. Williams*

DATE: 9-13-67 DIVISION DEPUTY DIRECTOR

APPROVED: *Thomas M. Major*

DATE: 1-10-68 DEPUTY DIRECTOR OF PLANNING AND PROGRAMMING

APPROVED: *C. H. Altwater*

DATE: 12-21-67 ENGINEER OF BRIDGES

APPROVED: *R. E. Gathin*

DATE: 12-21-67 ENGINEER OF LOCATION AND DESIGN

APPROVED: *T. H. Brown*

DATE: 1-10-68 DEPUTY DIRECTOR OF RIGHT OF WAY

APPROVED: *R. E. Shultz*

DATE: 12-21-67 DEPUTY DIRECTOR OF DESIGN AND CONSTRUCTION

APPROVED: *R. W. Wilson*

DATE: 1-10-68 FIRST ASSISTANT DIRECTOR

APPROVED: *R. E. Meacham*

DATE: 1-10-68 DIRECTOR OF HIGHWAYS

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS

APPROVED:

DIVISION ENGINEER

DATE:

Rev. 7-8-68 C.E.H.

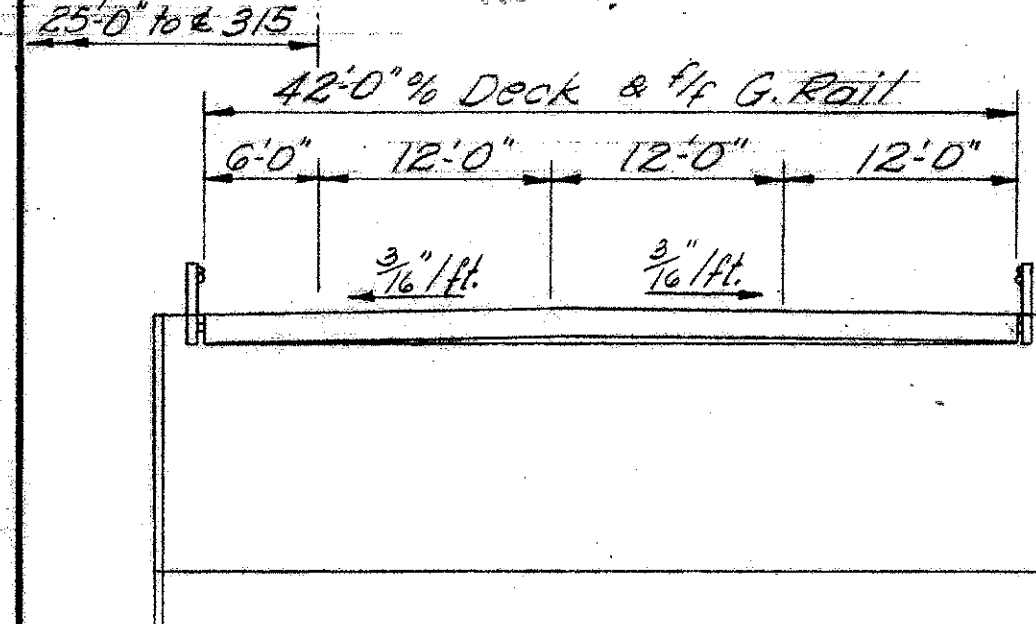
Ramp "B" Curve Data

A = 37° 16' 54.2"	L = 466.02'
D = 8° 00'	E = 716.20'
T = 241.60'	R = 39.65'
S.C. Sta. 157 + 18.991	
P.C. Sta. 161 + 85.012	
P.T. Sta. 159 + 60.587	

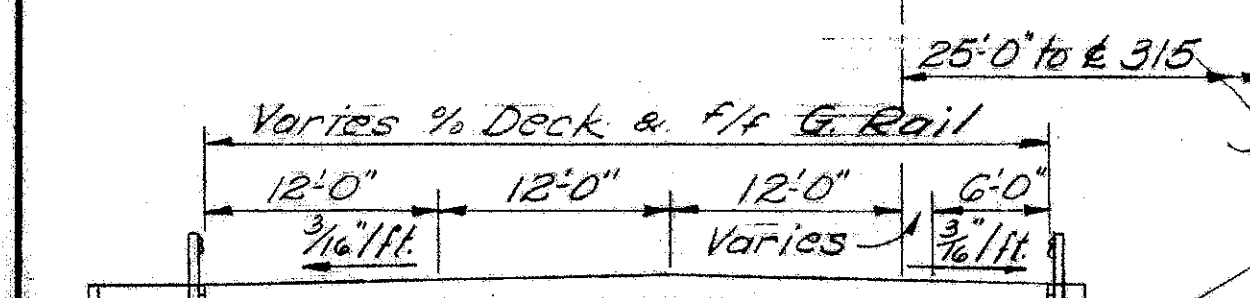
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

FRANKLIN COUNTY FRA-270-13.86 N

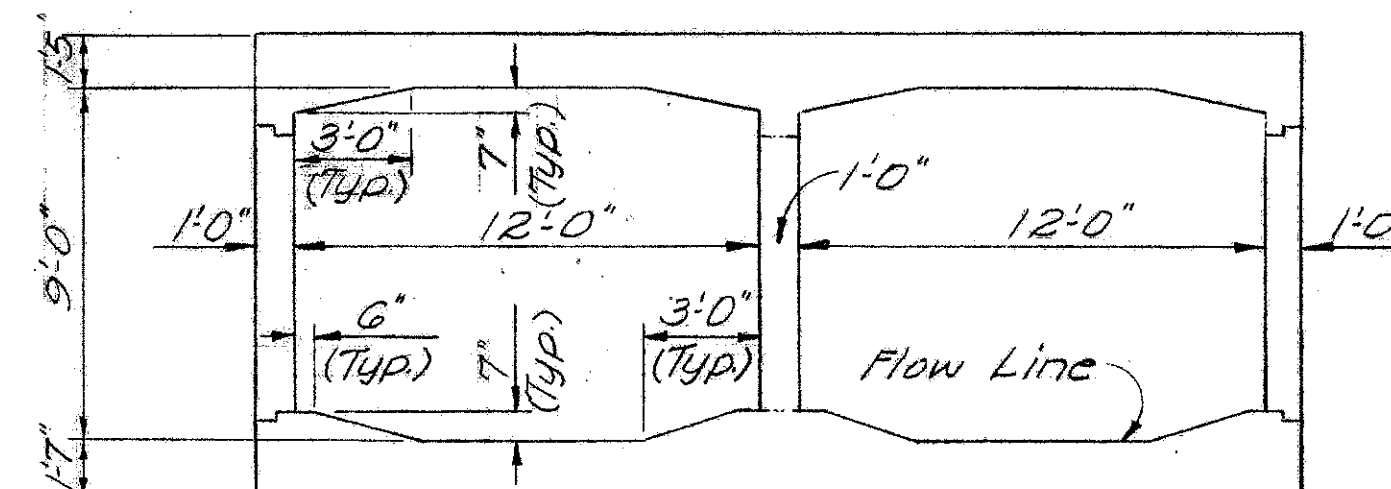
MICROFILMED
 DEC 19 1979
 REPRODUCTION



RIGHT BRIDGE



LEFT BRIDGE



SECTION THRU CULVERT

EXISTING BRIDGE DATA
BRIDGE No. FRA-315-0183
BUILT 1931
Type: Single span concrete beam
Span: 23'-1" w/ Abutments
Roadway: 26'-5" % Deck
Alignment: Tangent
Skew: None
Wearing Surface: Bituminous

Drainage Area = 2.8 sq. mi.
Q₅₀ = 1356 cfs
Q₁₀ = 900 cfs.

CULVERT DATA
Type: Twin Box Culvert
Size: 12' x 9' x 112.5'
Work Req'd.: Build a 12' x 9'
Twin Box Culvert as per plan

PROPOSED STRUCTURE
Type: Single span reinforced
concrete slab & substructure
Span: 25.54' @ abuts. measured along Rwy
Roadway: 43'0" % Deck (Rt.)
Varies % Slab (Lt.) Avg. = 43.38'
Load Frequency: CF = 400 (ST)
Skew: 20° Rt. Fwd.
Wearing Surface: 1" memo. conc.
Approach Slob: AS-1-54 (25' long) Rt.
Special (25' long) Lt.
Alignment: Tangent
Super-elevation: None

DE LEUW, CATHAR & BRILL
CONSULTING ENGINEERS

NEW YORK, N. Y. COLUMBUS, OHIO BUFFALO, N. Y.

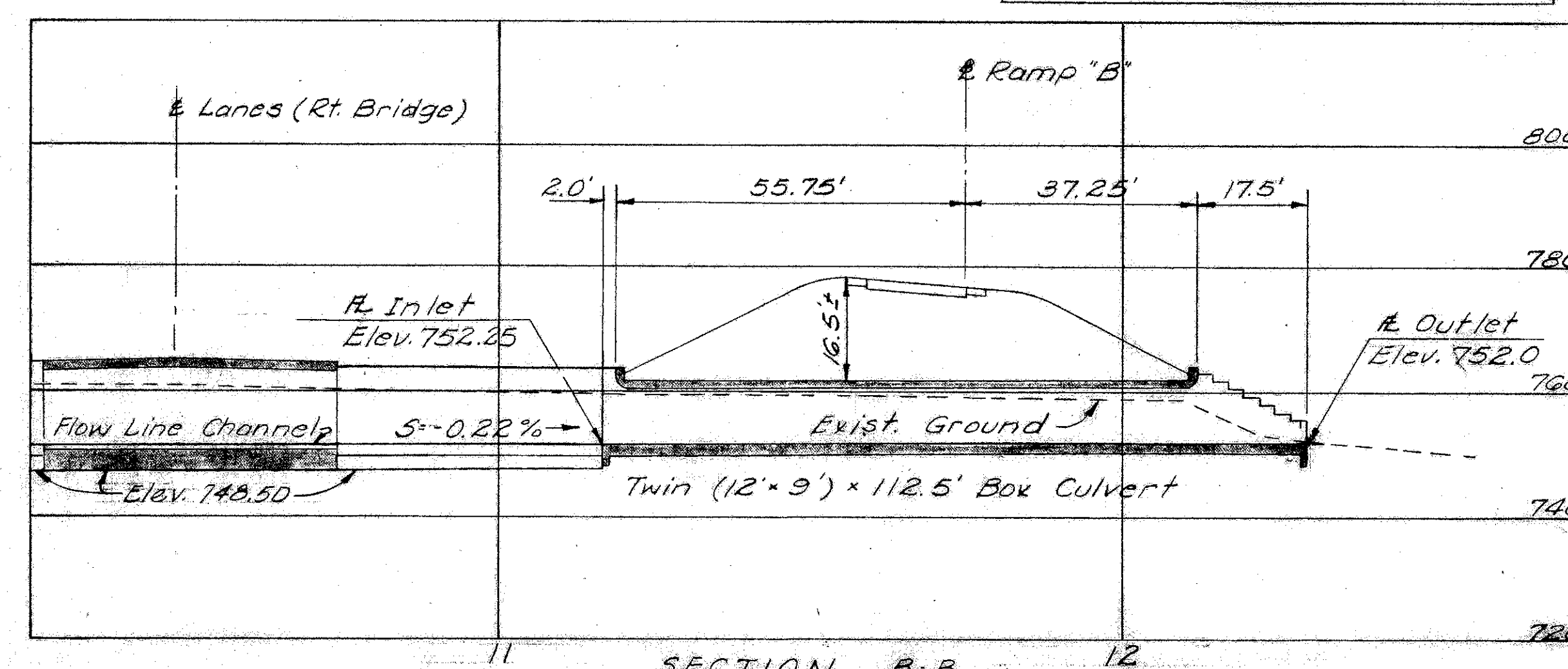
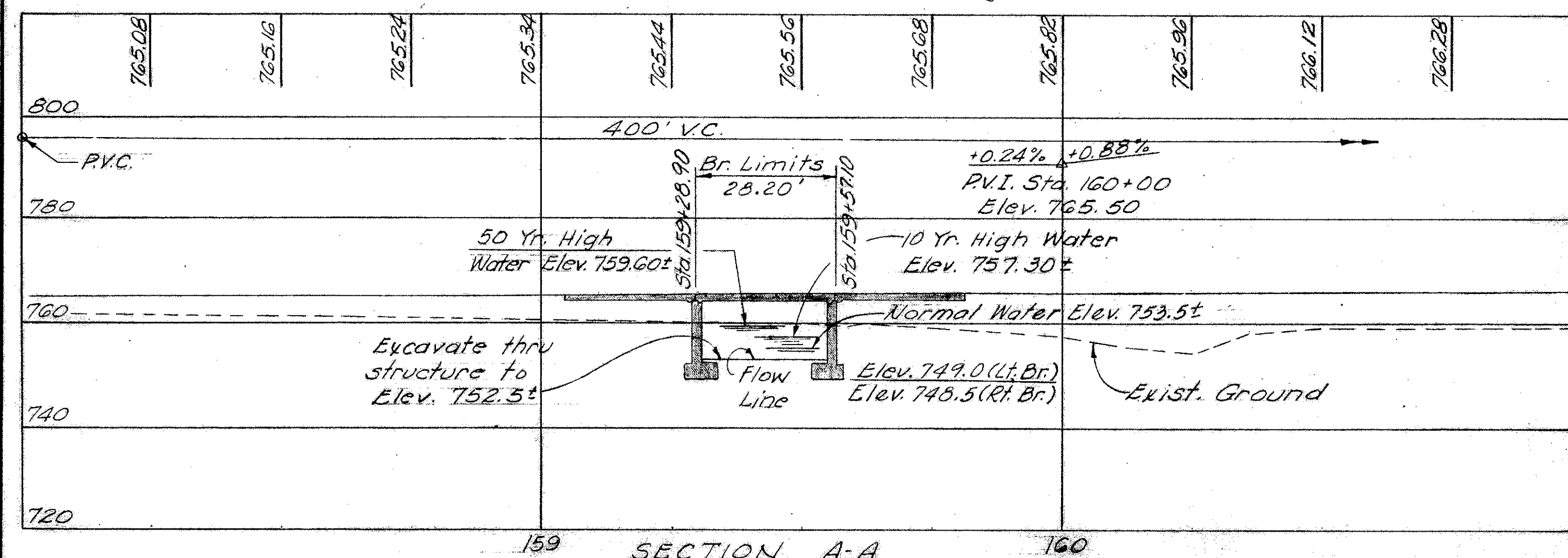
SITE PLAN

BRIDGE No. FRA-315-101A 4/R
OVER WILSON RUN
& TWIN BOX CULVERT
UNDER RAMP "B"

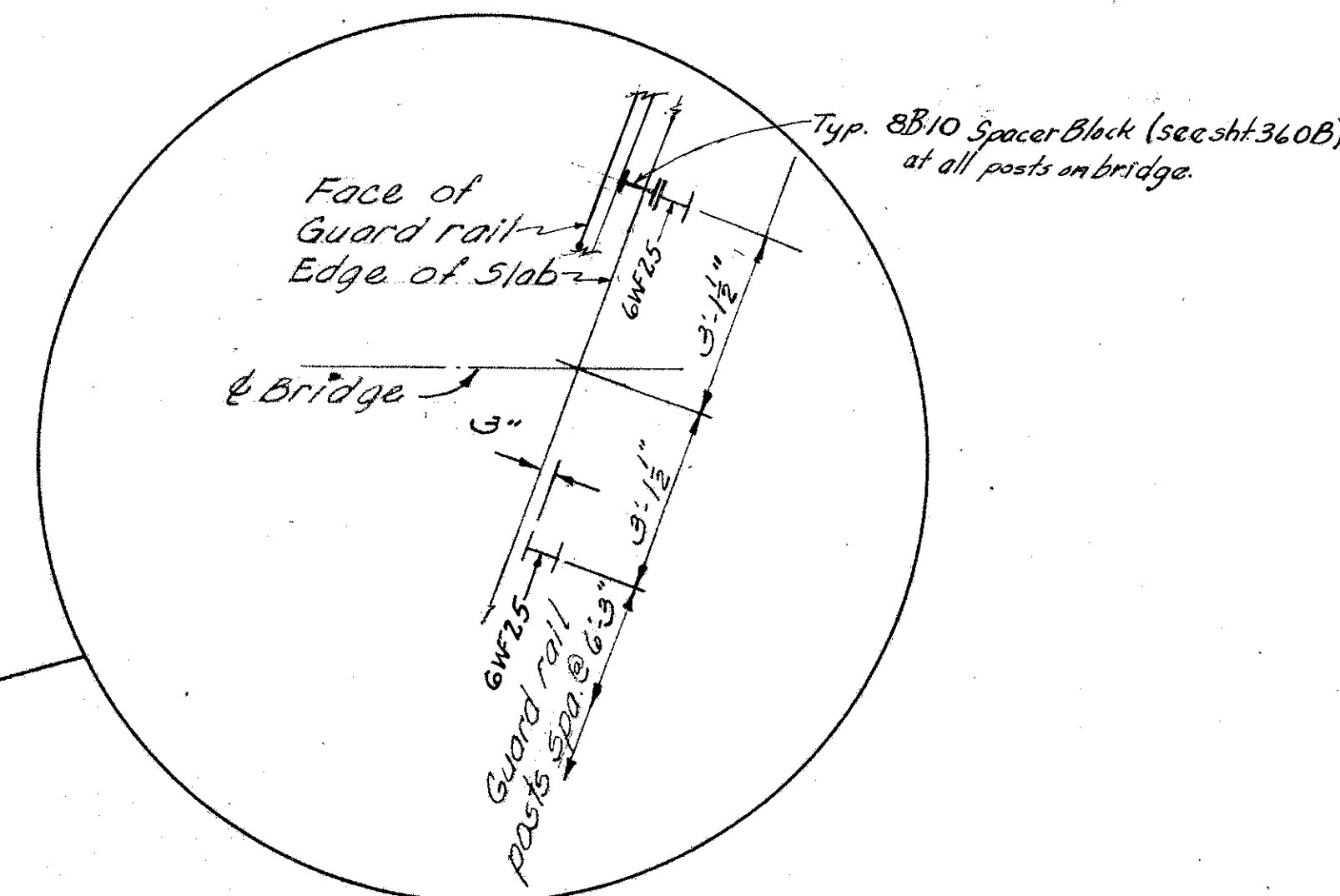
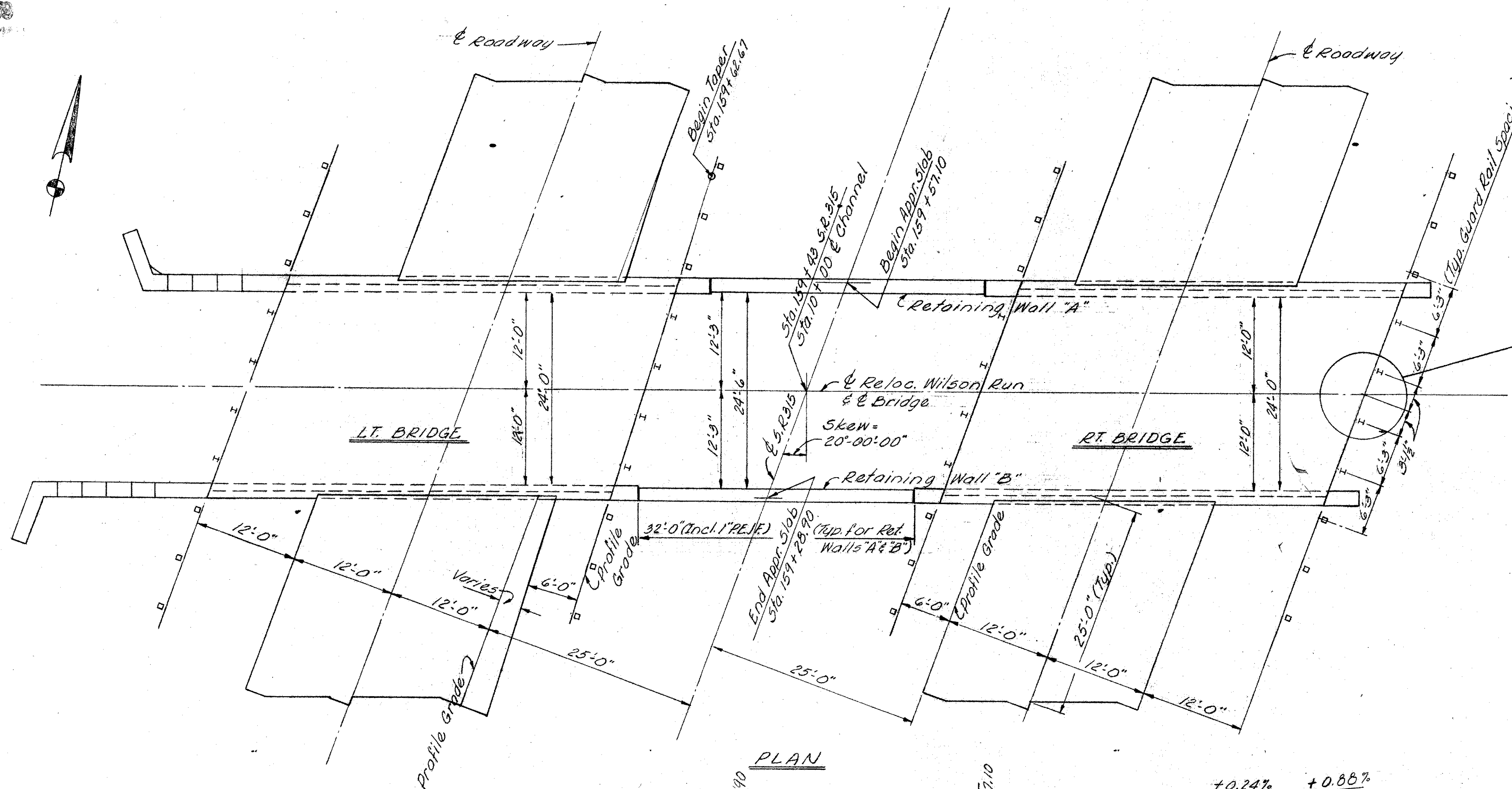
FRANKLIN COUNTY

SR. 315
STA. 159 + 23.70

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
<i>PLA</i>	<i>V.N.</i>		<i>ACX</i>	<i>ACX</i>		



REPRODUCTION
DEC 1980



GENERAL NOTES

CAMBER: To assure that the deck will conform with the profile of the highway after release of the falsework, the deck forms and falsework shall be cambered. The amount of camber shall be the deflection of the deck slab, plus deflection of falsework, plus or minus any curvature due to vertical curve on roadway profile. Deflection of deck slab = $\frac{1}{16}$ ".

RAILING: The transition between the guard rail height on the bridge and on the approach shall be made in a distance of 100 feet from each end of the bridge.

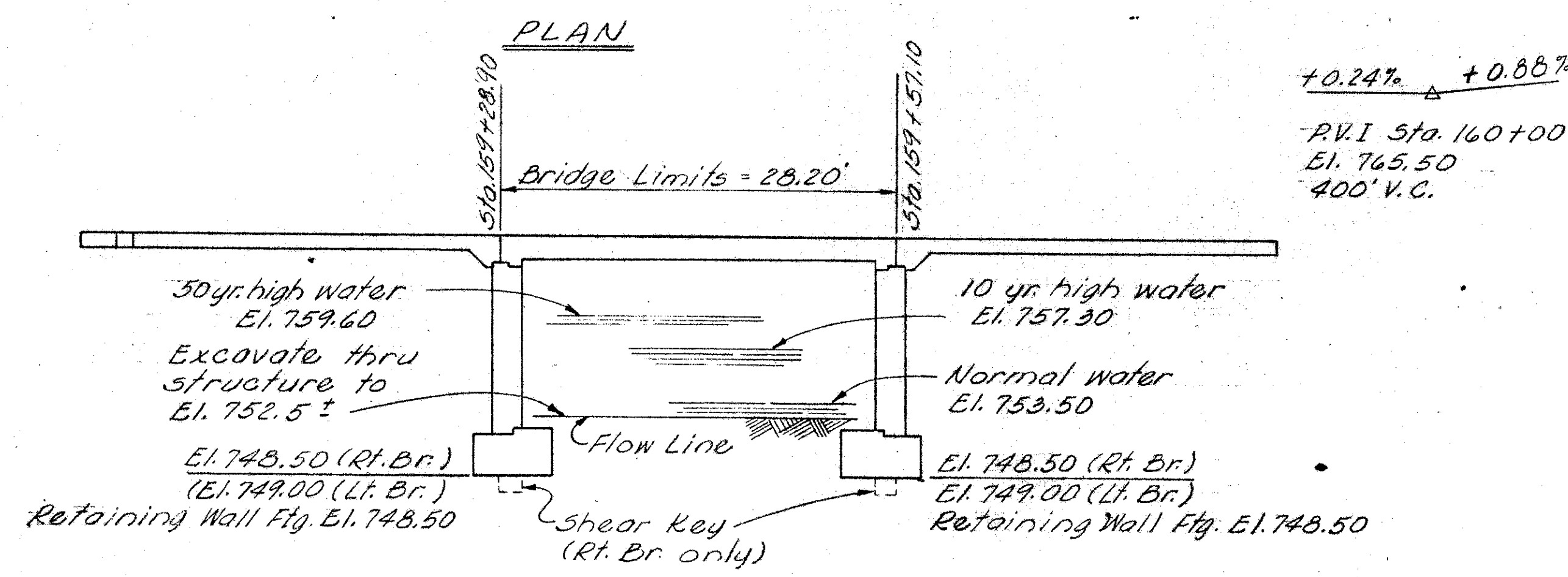
REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed as per Item 202.03.

MAINTENANCE AND PROTECTION OF TRAFFIC: See General Note Sheet No. 13.

FOOTINGS for the Left Bridge shall extend a minimum of 3' into undisturbed rock or to elevation shown, whichever is lower.

FOUNDATION BEARING PRESSURE: Retaining walls "A", "B", "C" & "D" and Right Bridge footings are designed for 2.5 tons per sq. ft. and the Left Bridge footings are designed for 4 tons per sq. ft.

For additional notes see Sheet No. 363.



ELEVATION (along & Roadway, Rt. Bridge)

DE LEUW, CATHAR & BRILL					
CONSULTING ENGINEERS					
NEW YORK, N. Y. • COLUMBUS, OHIO • BUFFALO, N. Y.					
GEN. PLAN & ELEVATION & NOTES					
BRIDGE NO. FRA-315-1014 L/R					
OVER WILSON RUN and					
RETAINING WALLS "A" & "B"					
FRANKLIN COUNTY					
STA. 159+28.90					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
DGJ	BBB		MM	DGJ	8-67

REINFORCING STEEL LIST (BOTH BRIDGES)

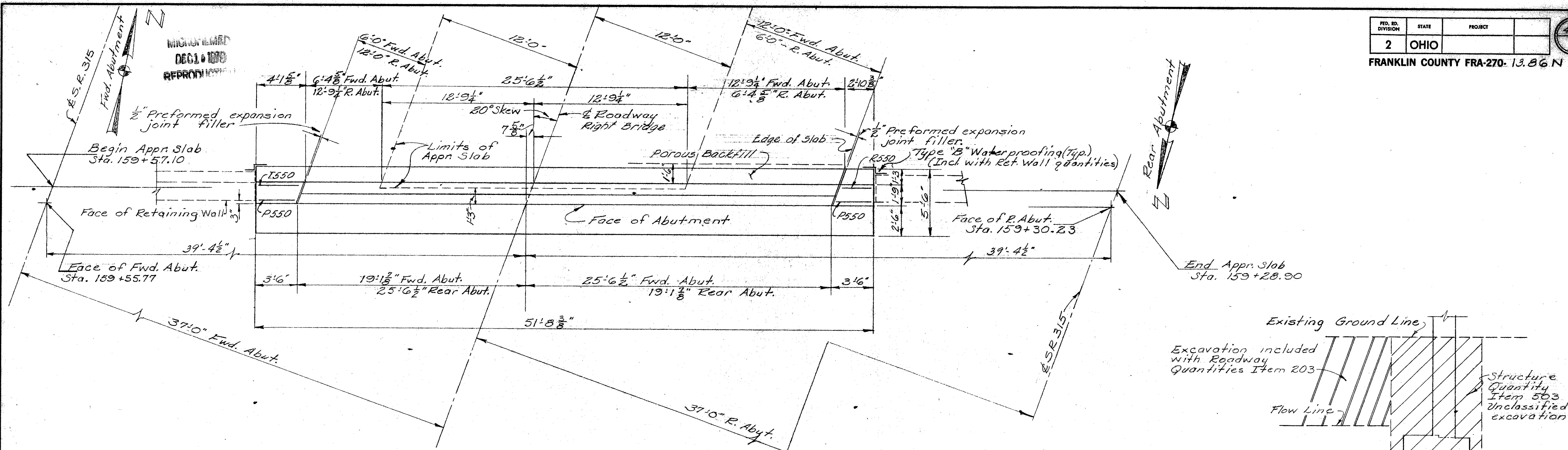
MARK	NO.	LENGTH	WEIGHT	SHR	BENDING DIAGRAMS					MARK	NO.	LENGTH	WEIGHT	SHR	MARK	NO.	LENGTH	WEIGHT	SHR
RIGHT BRIDGE										LEFT BRIDGE					LEFT BRIDGE				
Rear & Fwd. Abutments										Rear Abut. (Cont)					Fwd. Abut. (Cont)				
E 850	12	6'-2"	198	B						S 509	2	9'-8"	20	S	T 504	9	7'-6"	70	B
										S 510	2	8'-1"	17	S	R 501	6	7'-4"	46	S
										S 511	2	6'-6"	14	S	P 501	7	7'-0"	51	B
D 650	60	5'-4"	480	B						Q 508	2	10'-11"	23	S	Q 501	6	13'-2"	82	S
N 651	60	11'-8"	1051	S						Q 509	2	9'-5"	20	S	Q 502	2	11'-0"	23	S
										Q 510	2	7'-10"	16	S	Q 503	1	9'-11"	10	S
										Q 511	2	6'-3"	13	S	Q 504	2	8'-10"	18	S
L 550	56	26'-6"	1548	S						P 501	4	7'-0"	29	B	Q 505	1	12'-1"	13	S
M 550	60	12'-2"	761	S						T 503	3	7'-0"	22	B	SUPERSTRUCTURE				
P 550	4	3'-2"	13	S						T 504	5	7'-6"	39	B	A 968	184	30'-2"	18872	B
Q 550	12	13'-8"	171	S											B 601	128	25'-2"	4838	S
R 550	2	2'-8"	6	S											B 602	64	23'-0"	2211	S
S 550	12	13'-2"	165	S											B 603	64	21'-0"	2019	S
T 550	2	3'-8"	8	S											C 501	31	27'-8"	895	S
															REPLACEMENT STEEL				
															RE 900	1	7'-10"		S
															RE 800	1	7'-6"		S
															RE 600	1	6'-11"		S
															RE 500	1	6'-7"		S
	</																		

NOTE: The reinforcing bars for the Left structure shall be marked with a suffix "L" and the bars for the Right structure shall be marked with a suffix "R"

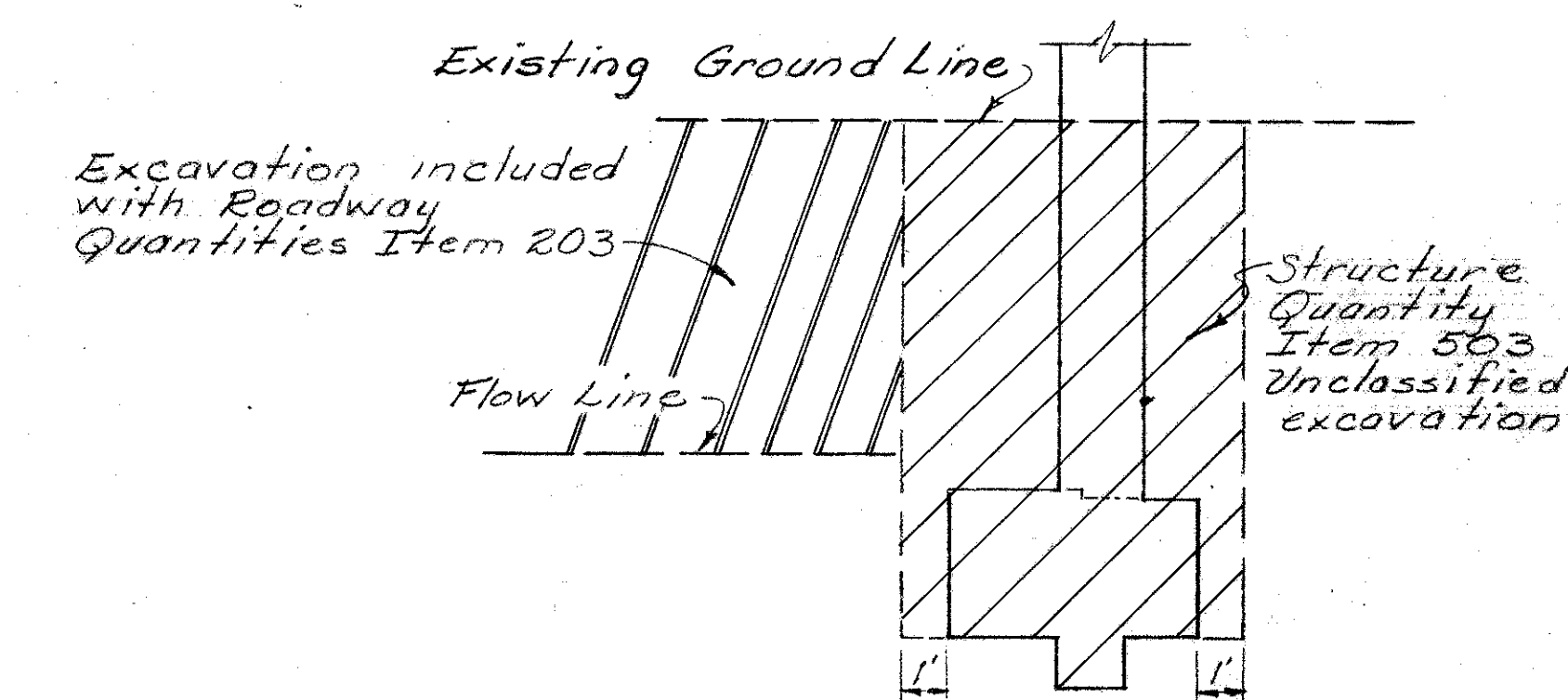
ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	Left Bridge				Right Bridge			
				Supers.	Abuts.	Piers	Gen'l.	Supers.	Abuts.	Piers	Gen'l.
202	Lump	Sum	Removal of existing structure								
503	Lump	Sum	Cofferdams cribs and sheeting								
503	764	Cu.Yds.	Unclassified excavation including rock		457				307		
509	39,147	Lbs.	Reinforcing steel	14,733	5,911			14,102	4,401		
511	140	Cu.Yds.	Class "C" concrete, superstructure	71				69			
511	154	Cu.Yds.	Class "E" concrete, abutment footings		82				72		
511	197	Cu.Yds.	Class "E" concrete, abutments above fgs.		112				85		
516	24	Sq.Ft.	1/2" Preformed expansion joint filler (AASHTO M-153)	12				12			
517	112.80	Lin.Ft.	Railing (Deep beam rail with modified steel posts and bolts), as per plan	56.40				56.40			
518	145	Cu.Yds.	Porous Backfill		76				69		
808	140	Units	Water-reducing, set retarding admixtures	71				69			
825	291	Sq.Yds.	Concrete surface treatment	148				143			

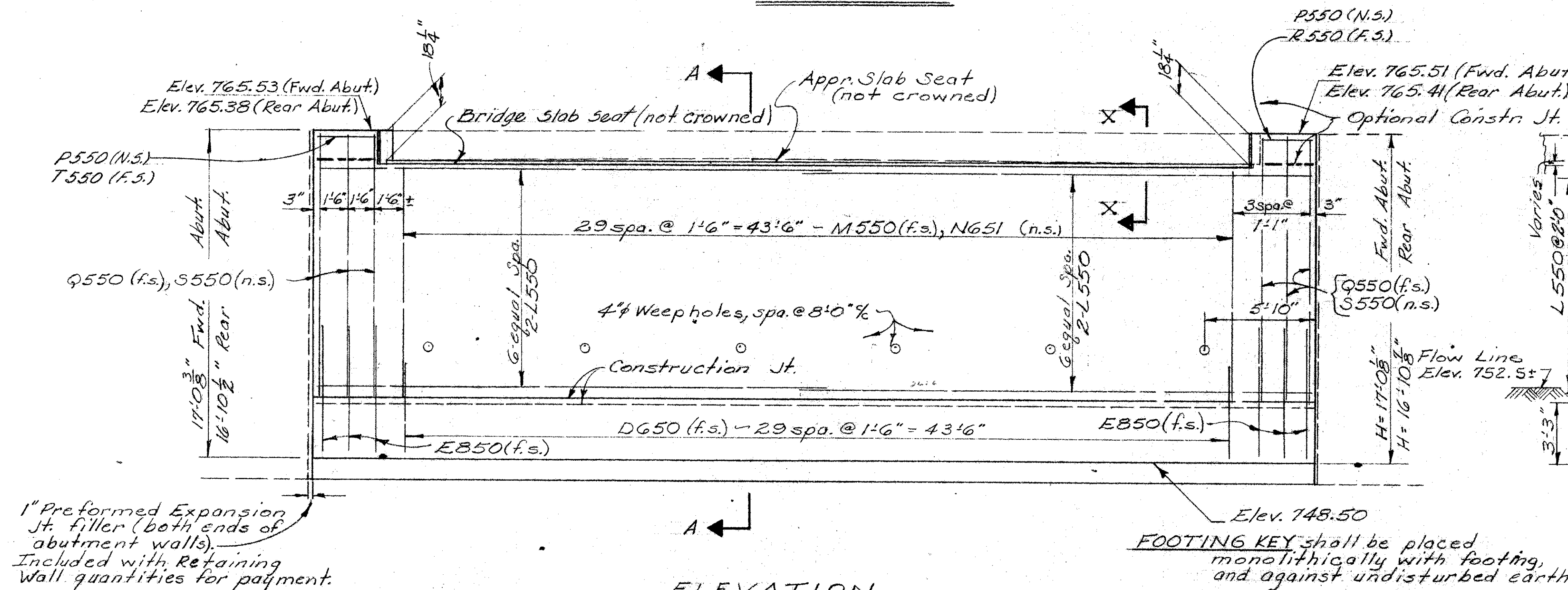
DE LEUW, CATHAR & BRILL CONSULTING ENGINEERS NEW YORK, N. Y. • COLUMBUS, OHIO • BUFFALO, N. Y.					
ESTIMATED QUANTITIES & REINFORCING STEEL LIST BRIDGE NO. FRA-315-1014 L/R OVER WILSON RUN FRANKLIN COUNTY					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
DEX	BOB		MM	DEX	8-67
STA. 159 + 28.90					



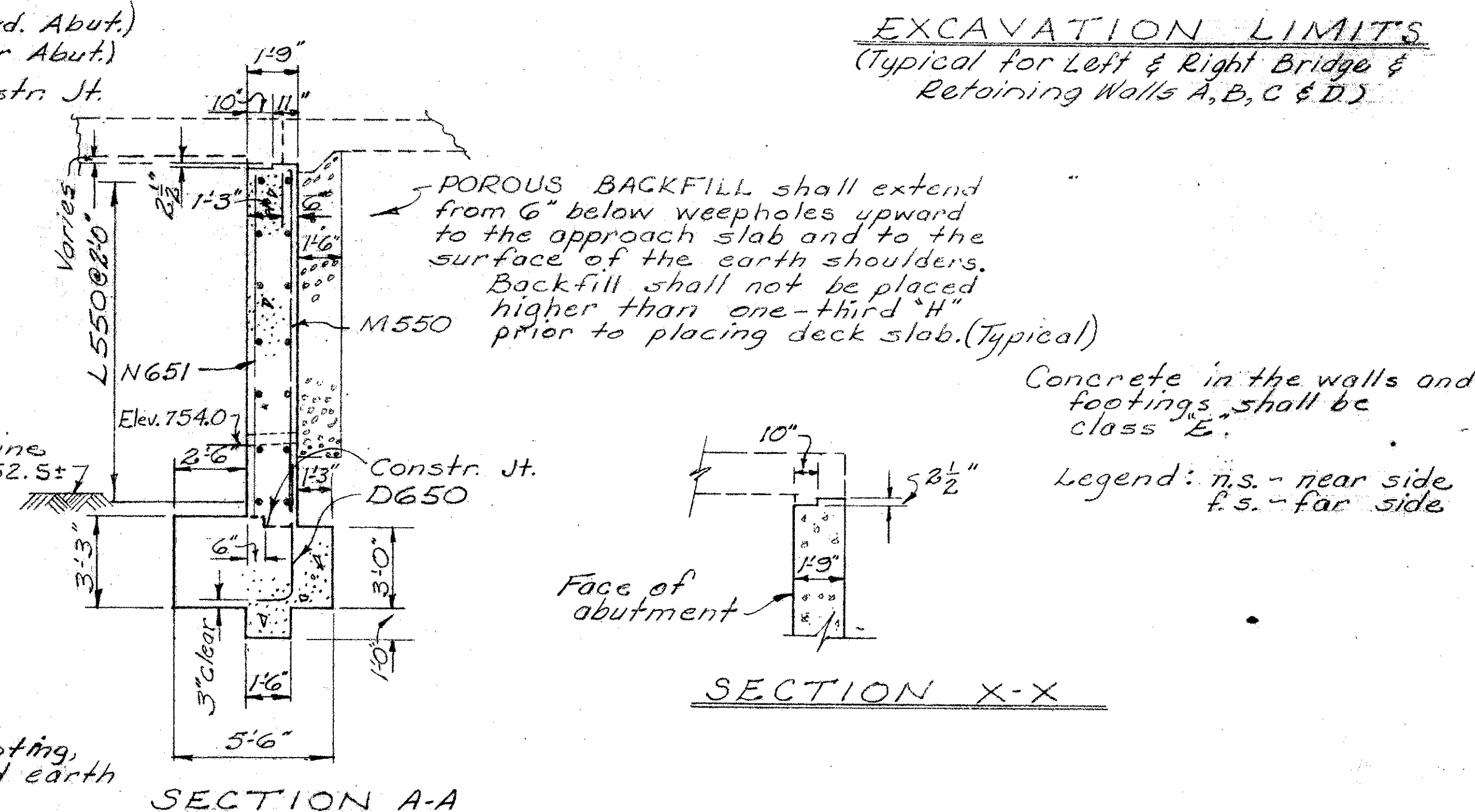
PLAN



EXCAVATION LIMITS
(Typical for Left & Right Bridge & Retaining Walls A, B, C & D)

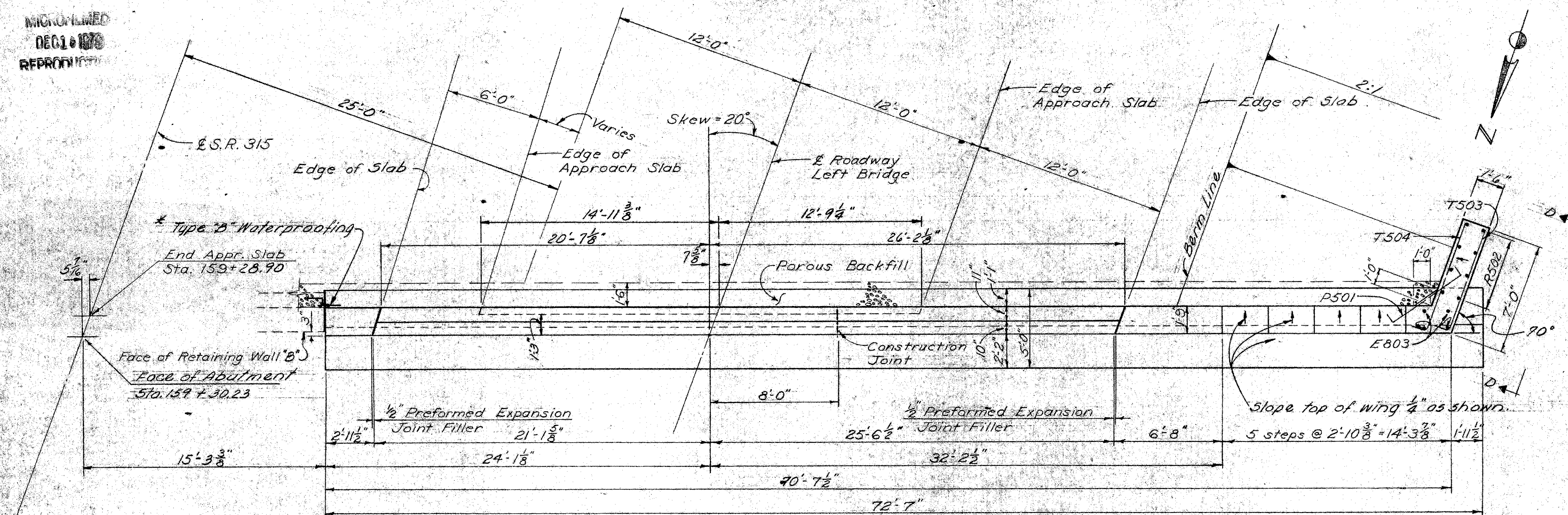


ELEVATION



SECTION A-A

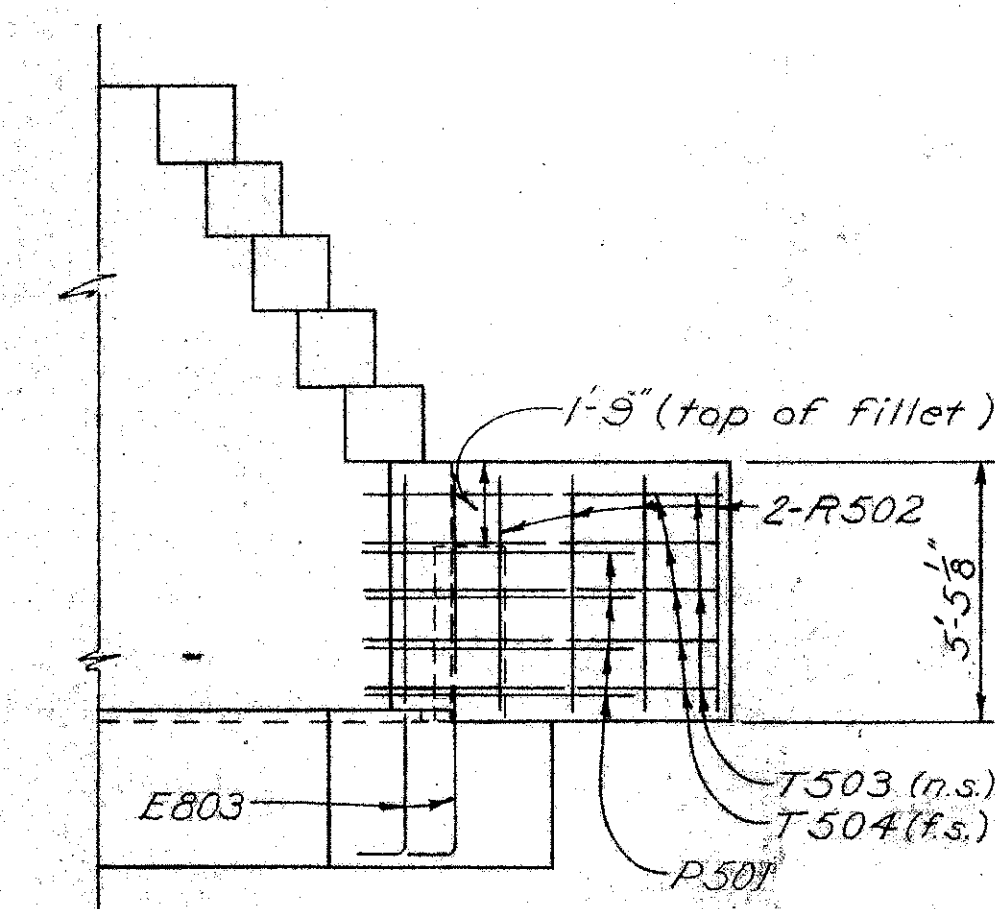
DE LEUW, CATHY & BRILL	
CONSULTING ENGINEERS	
NEW YORK, N.Y.	COLUMBUS, OHIO
ABUTMENT DETAILS	
BRIDGE NO. FRA-315-1014 (RT. BR.)	
OVER WILSON RUN	
FRANKLIN COUNTY	
STA. 159+28.90	
DESIGNED	DRAWN
TRACED	CHECKED
REVIEWED	DATE
8-1-67	8-1-67



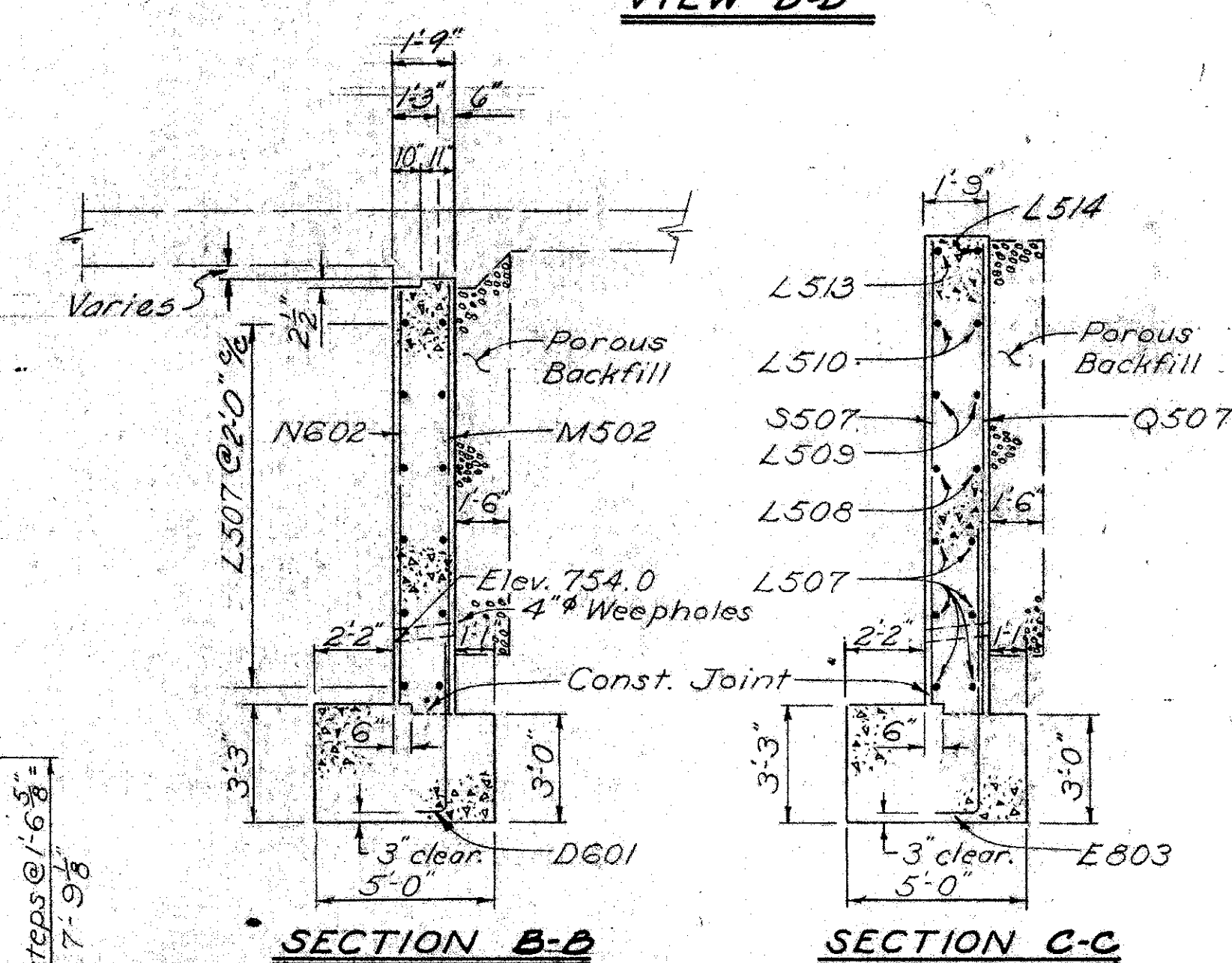
PLAN

* These items are included with retaining wall quantities for payment.

NOTE:
See Sheet No. 454 for additional notes and section X-X.

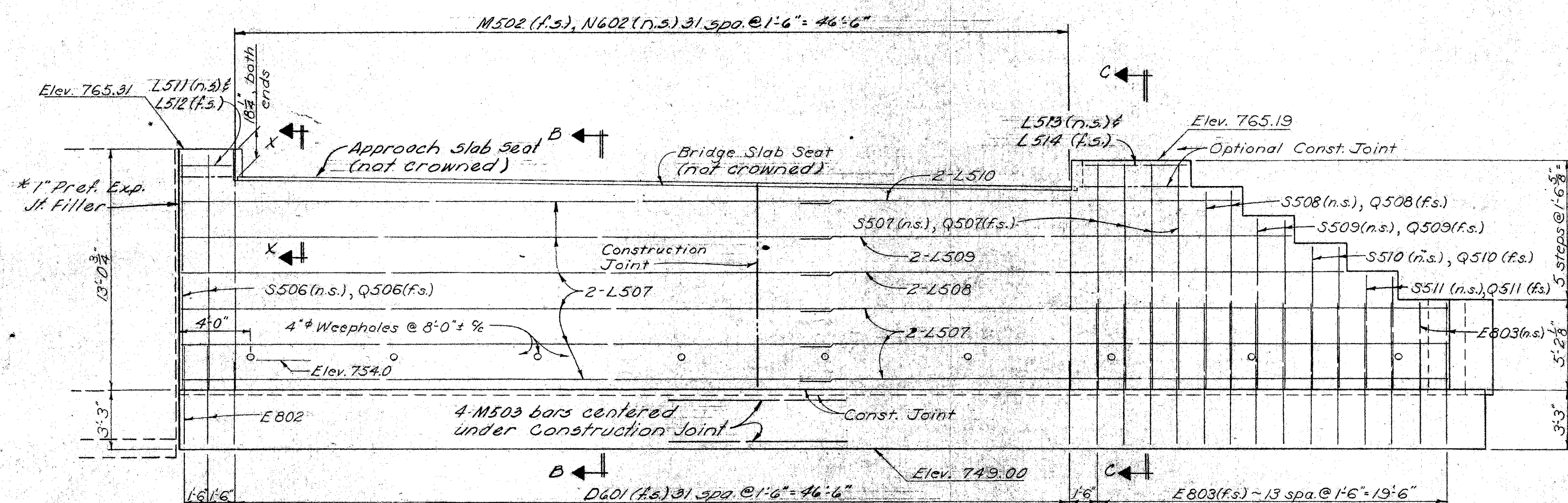


VIEW D-D



SECTION B-E

SECTION C-C



ELEVATION

LEGEND
n.s. - near side
f.s. - far side

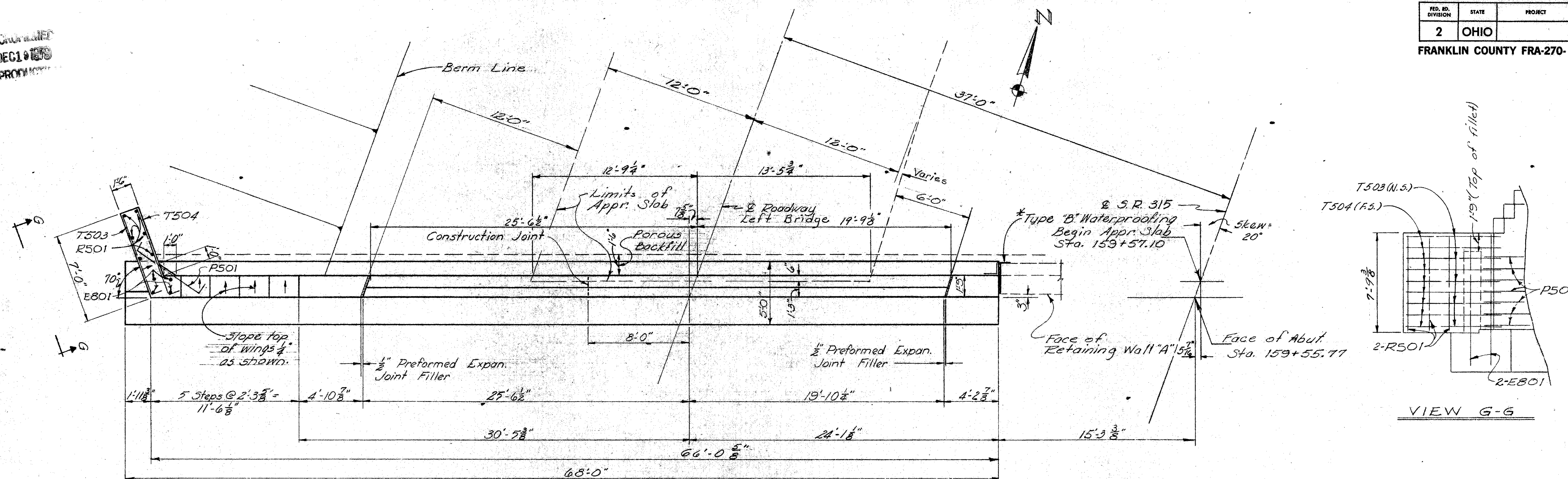
DE LEUW, CATHAR & BRILL
CONSULTING ENGINEERS
• COLUMBUS, OHIO • BUFFALO, N. Y.

REAR ABUTMENT DETAILS

BRIDGE NO. FRA-315-1014 (LT. BR.)
OVER WILSON RUN

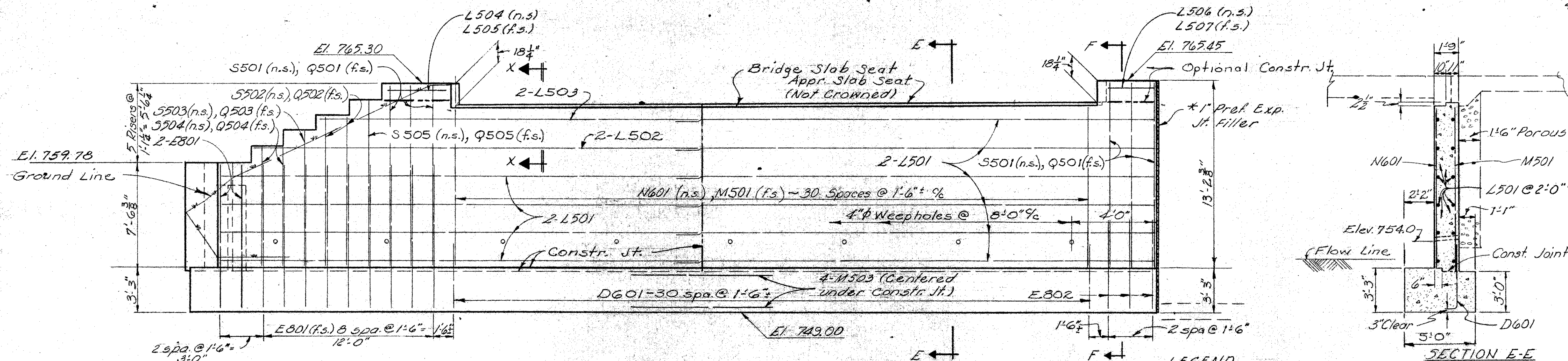
FRANKLIN COUNTY SR-315
STA: 159 + 20.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
SGW	VLA		M.M.	SGW	8-67	

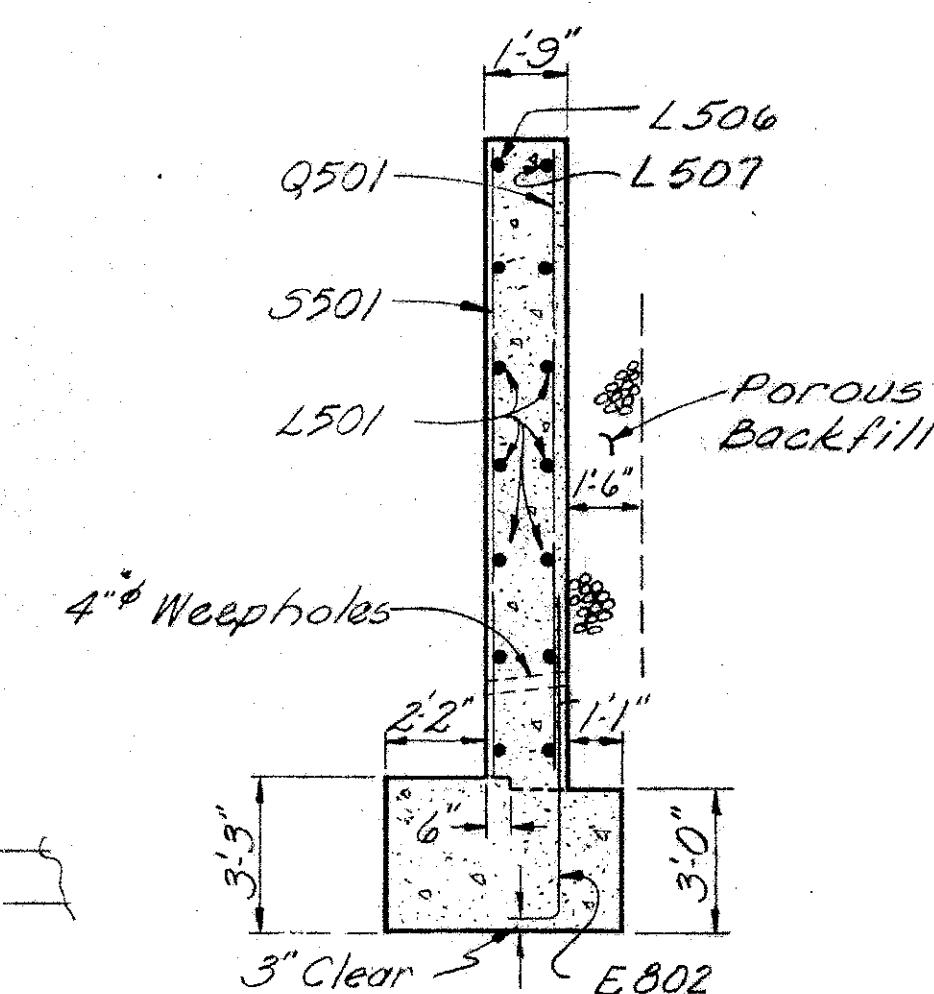


P L A N

* These items are included with Retaining Wall quantities for payment.

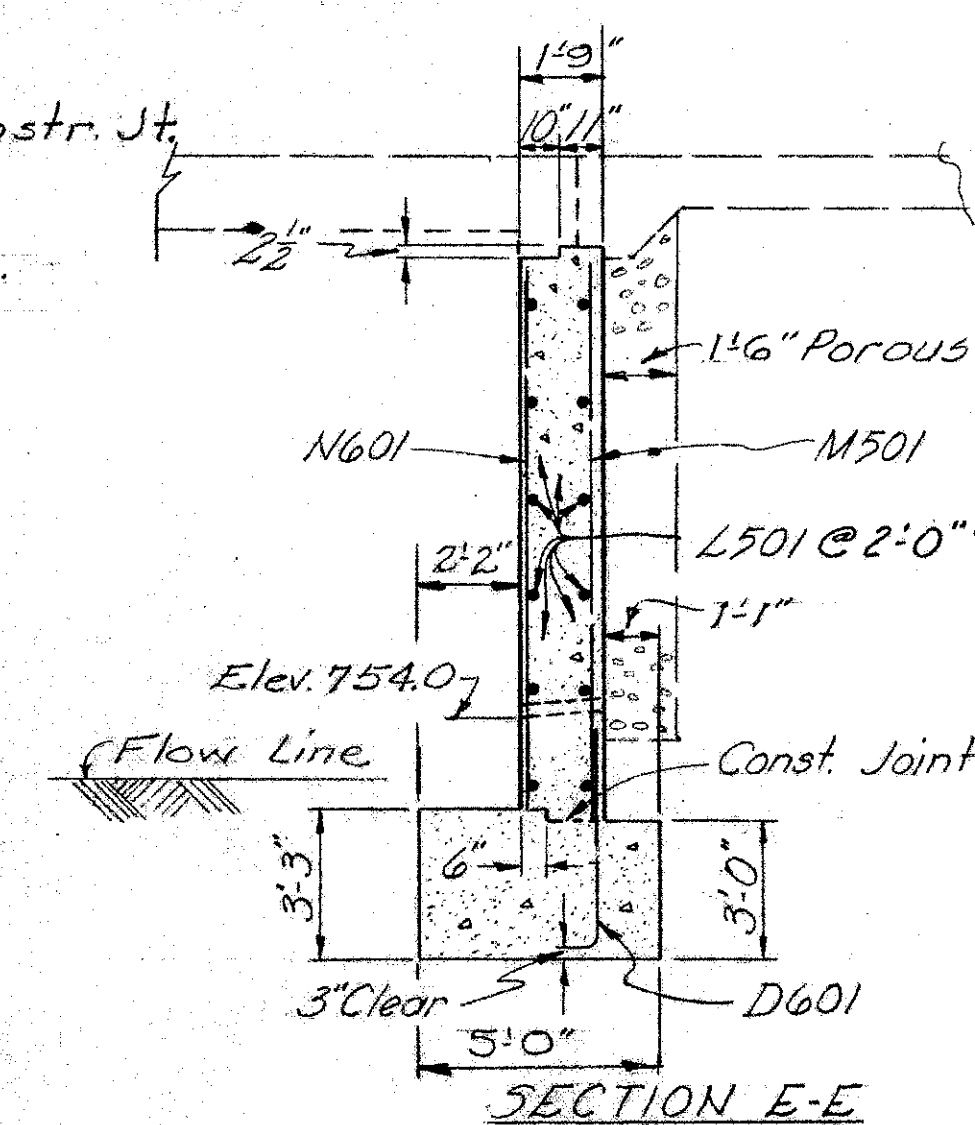


ELEVATION



SECTION F-F

NOTE
For additional notes and
section X-X see Sheet No. 454



SECTION E-E

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N. Y. • COLUMBUS, OHIO • BUFFALO, N. Y.

FWD. ABUTMENT DETAILS

BRIDGE NO. FRA-315-1014 (LT. BR.)
OVER WILSON RUN

FRANKLIN COUNTY SR-315
STA. 159 + 28.4

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVIEWED
SGN	III		MM	SGN	8-67	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42'-0" Rt. Bridge & Lt. Bridge varies % slab
24'-0" Variable (Lt. Br.), 18'-0" (Rt. Br.)
12'-0" 12'-0" 12'-0" Variable (Lt. Br.)
6'-0" (Rt. Br.) 25'-0"

3" C50I, 15 spa. @ 2'-10³/₄" (I) * (Lt. Br.), C50I, 14 spa. @ 2'-11¹/₂" (I) (Rt. Br.)

3" B601 Constr. Jt. 3" B602 (Lt. Br.) & B603 (Rt. Br.) P.G.

3" 8x10 Spacer Blocks (not shown)

Railing (deep beam type), modified as per plan. See sheet 18A, 360B, & 45Z.

3" 7¹/₂" 7¹/₄" A960, 93 spa @ 5¹/₂" (I) * (Lt. Br.) A968, 89 spa @ 5¹/₂" (I) (Rt. Br.)

8B10 Spacer Blocks not shown (See 360BF 452, 18A)

Deep Beam Rail

$7 \times \frac{1}{2}$ " plate welded to 6 WF25

$\frac{1}{4} \times 20"$ galv. machine bolts with square heads.

Thread 8" length and provide 3 hexagonal nuts per bolt. (Material according to ASTM A325)

3'-7"

9"

8"

$2\frac{1}{2}"$

$2\frac{1}{2}"$

1'-3"

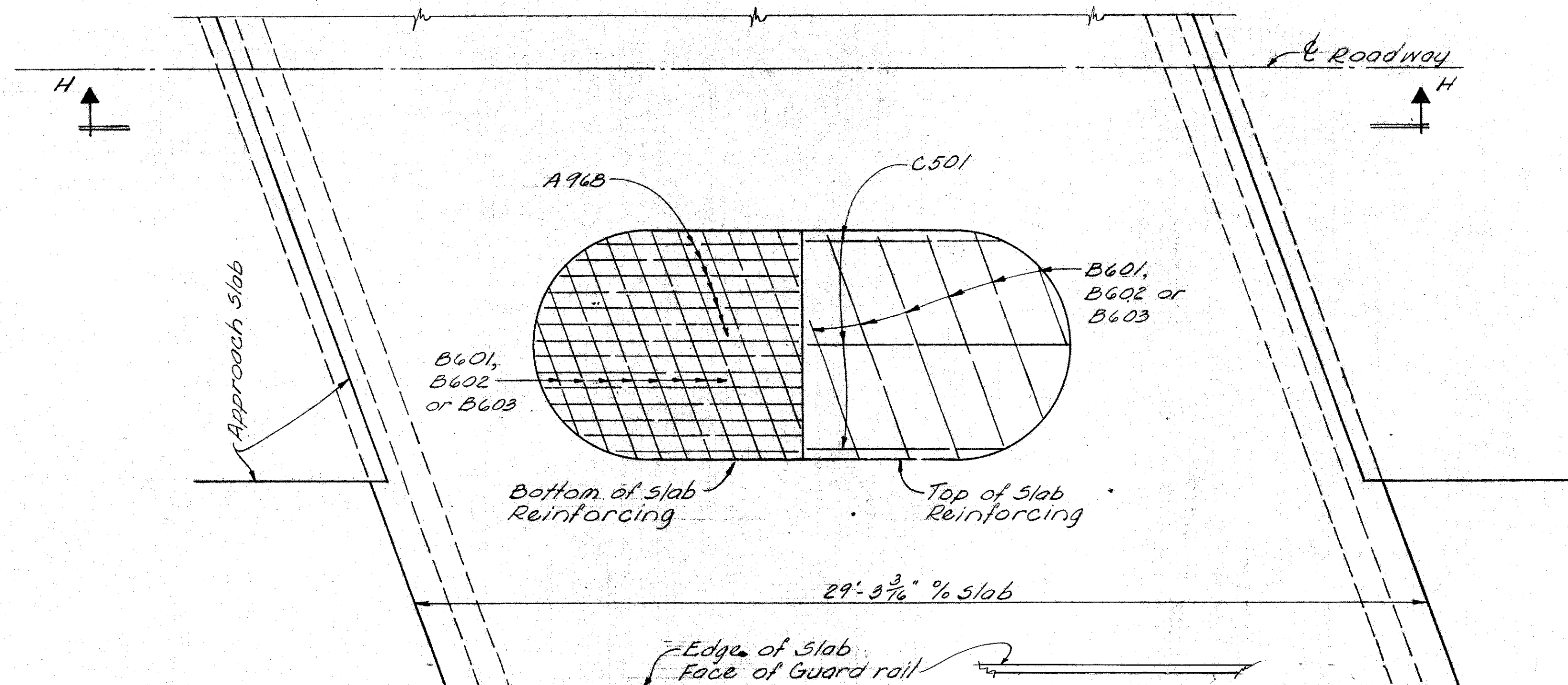
3"

3"

4" round groove.

See Detail "K"

NOTE:
* spacing of bars based on maximum width of
Left Bridge, adjust bar spacing for tapered
side of slab.

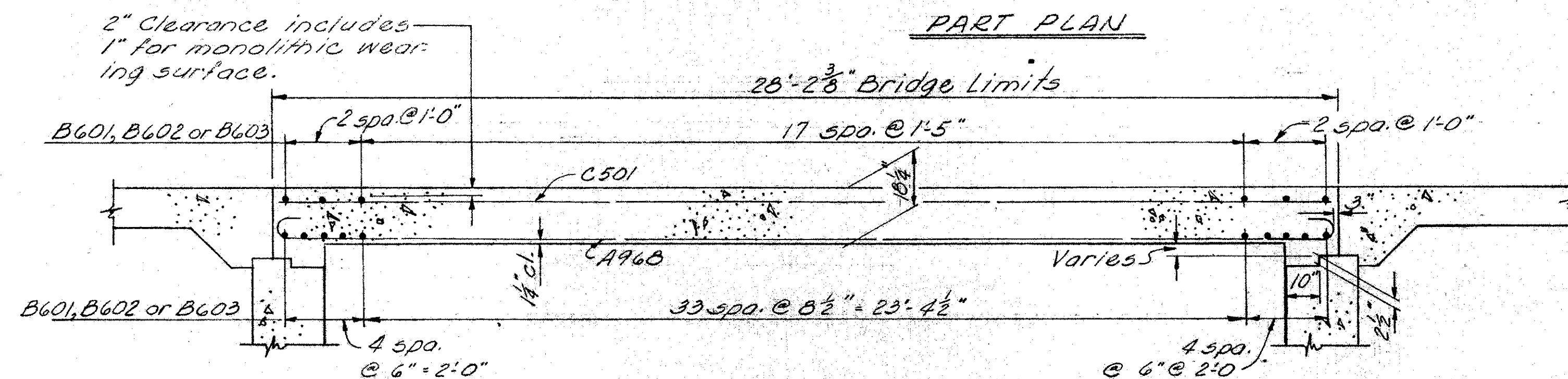


CONSTRUCTION JOINT

A longitudinal construction joint in the slab at the E of roadway, will be permitted.

DETAIL "K"

-CONCRETE in the deck slab shall be Class "C".



SECTION H-H

DE LEUW, CATHER & BRILL
CONSULTING ENGINEERS
NEW YORK, N. Y. • COLUMBUS, OHIO • BUFFALO, N. Y.

SUPERSTRUCTURE DETAILS

BRIDGE NO. FRA-315-1014 L/R

OVER WILSON RUN

FRANKLIN COUNTY SR. 315

STA. 159 + 28.90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
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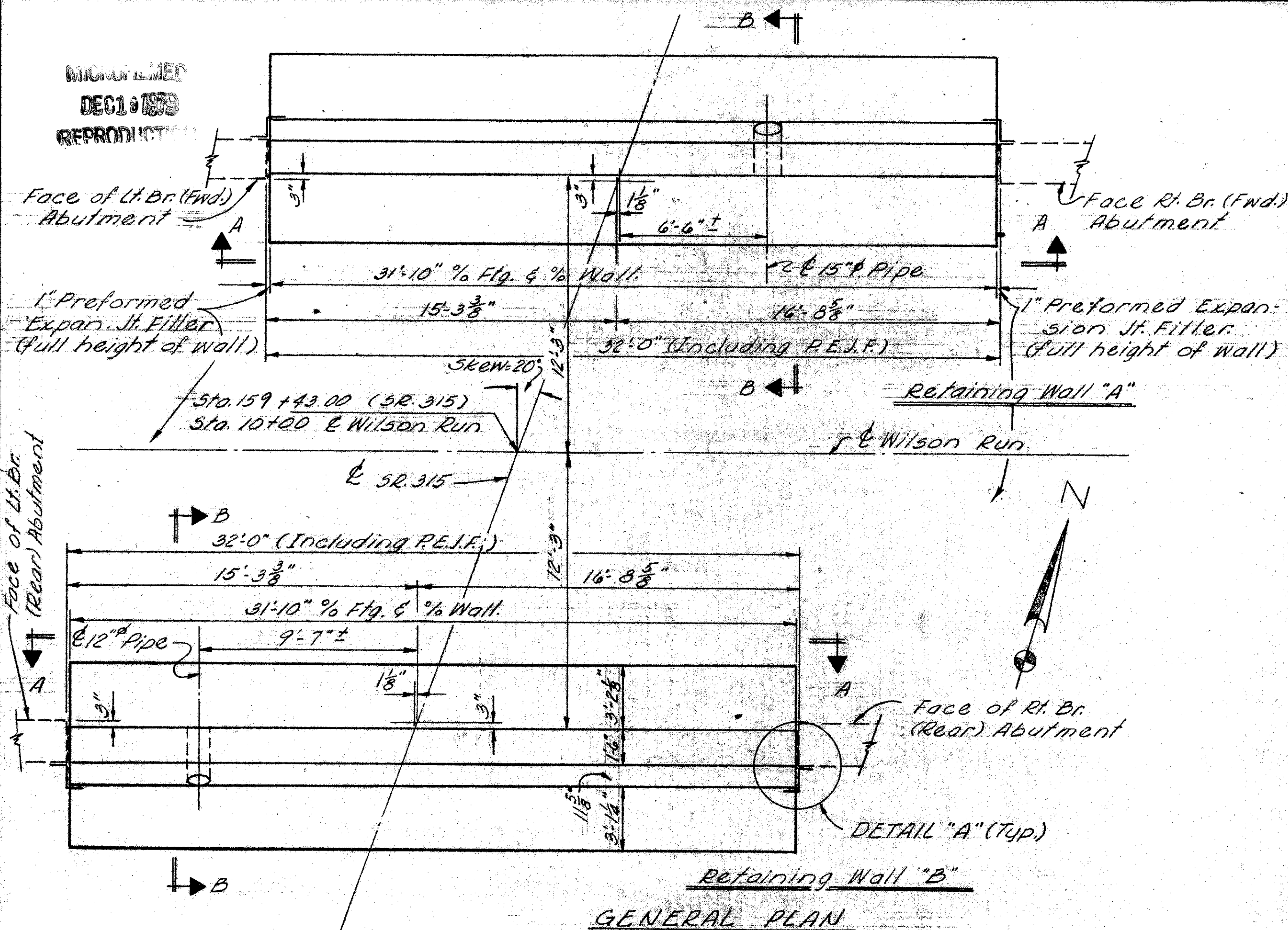
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ACU	BOS	MM	800
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U.C.A.	DA			AGH 8-67
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7806

7806



NOTES

BAR SIZE is indicated in the bar mark. The first digit where three digits are used, indicates the bar mark. For example W601 is a number 6 size bar.

DESIGN UNIT STRESSES:

Concrete, Class "E" - $f_c = 1133$ psi
Reinforcing Steel - ASTM-A15, A16, A160
Deformed, Intermediate or Hard Grade. $f_s = 20,000$ psi.

FOUNDATION BEARING PRESSURE: Retaining wall footings are designed for 2.5 tons per square foot.

For excavation limits see Sheet No. 454.

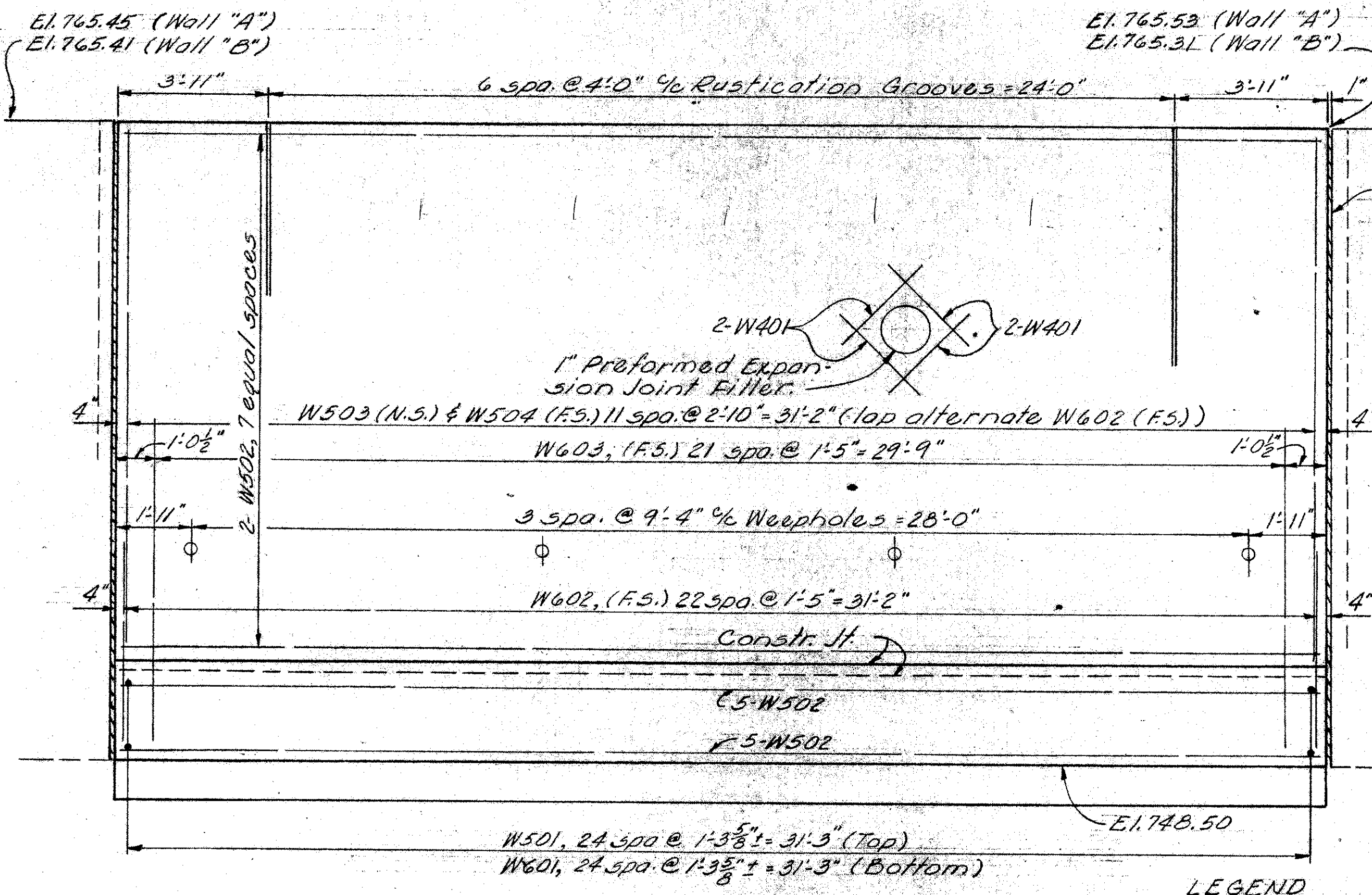
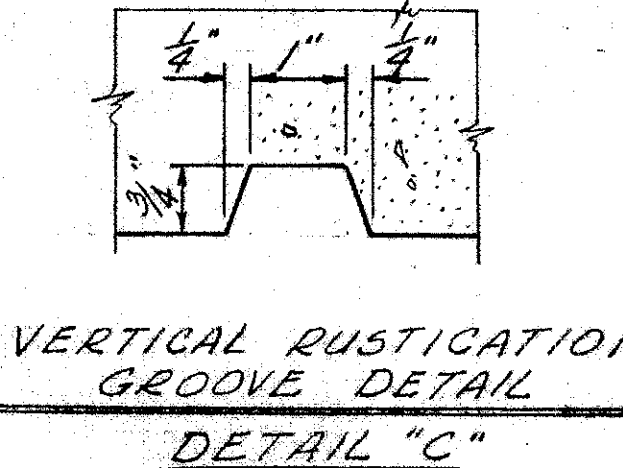
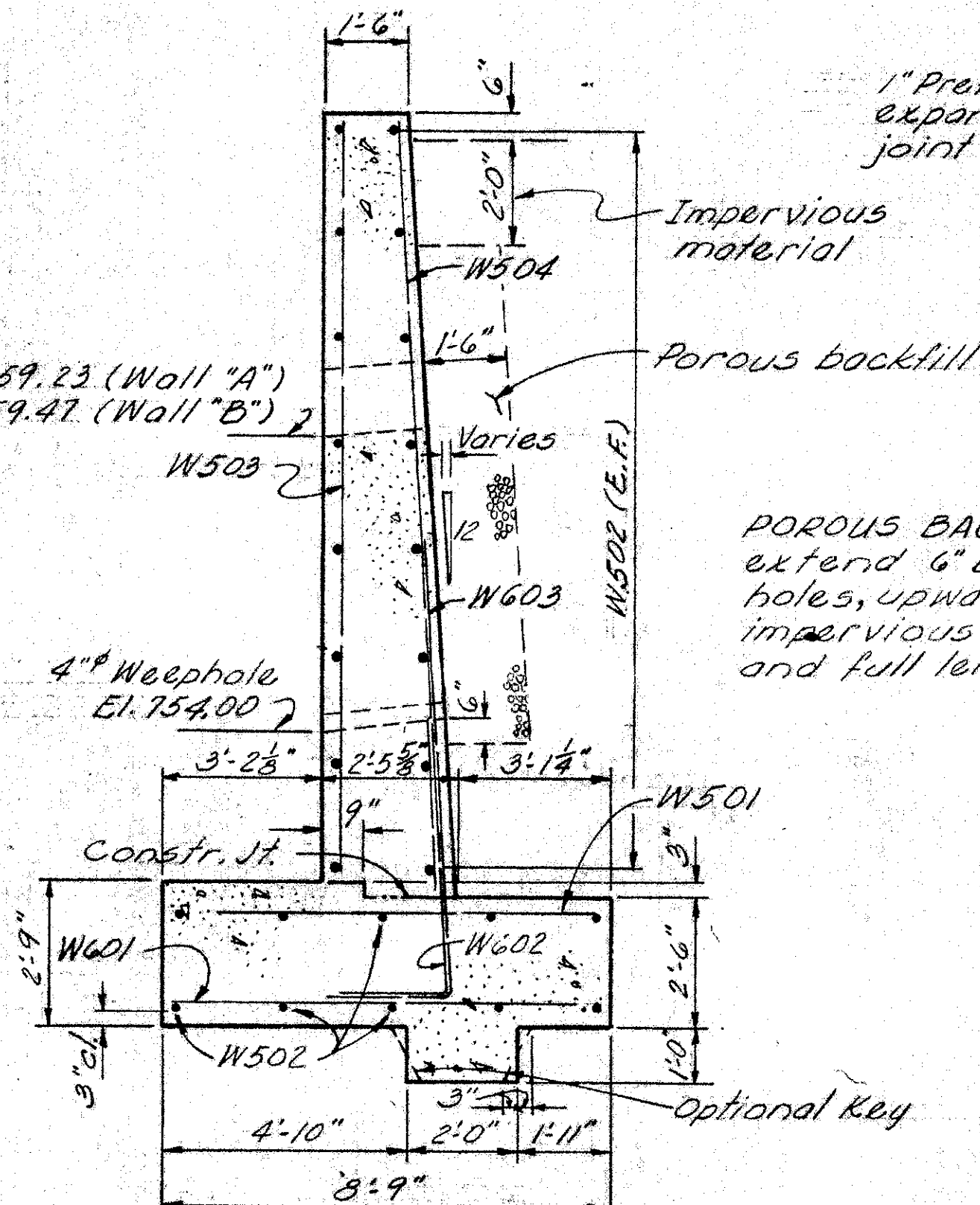
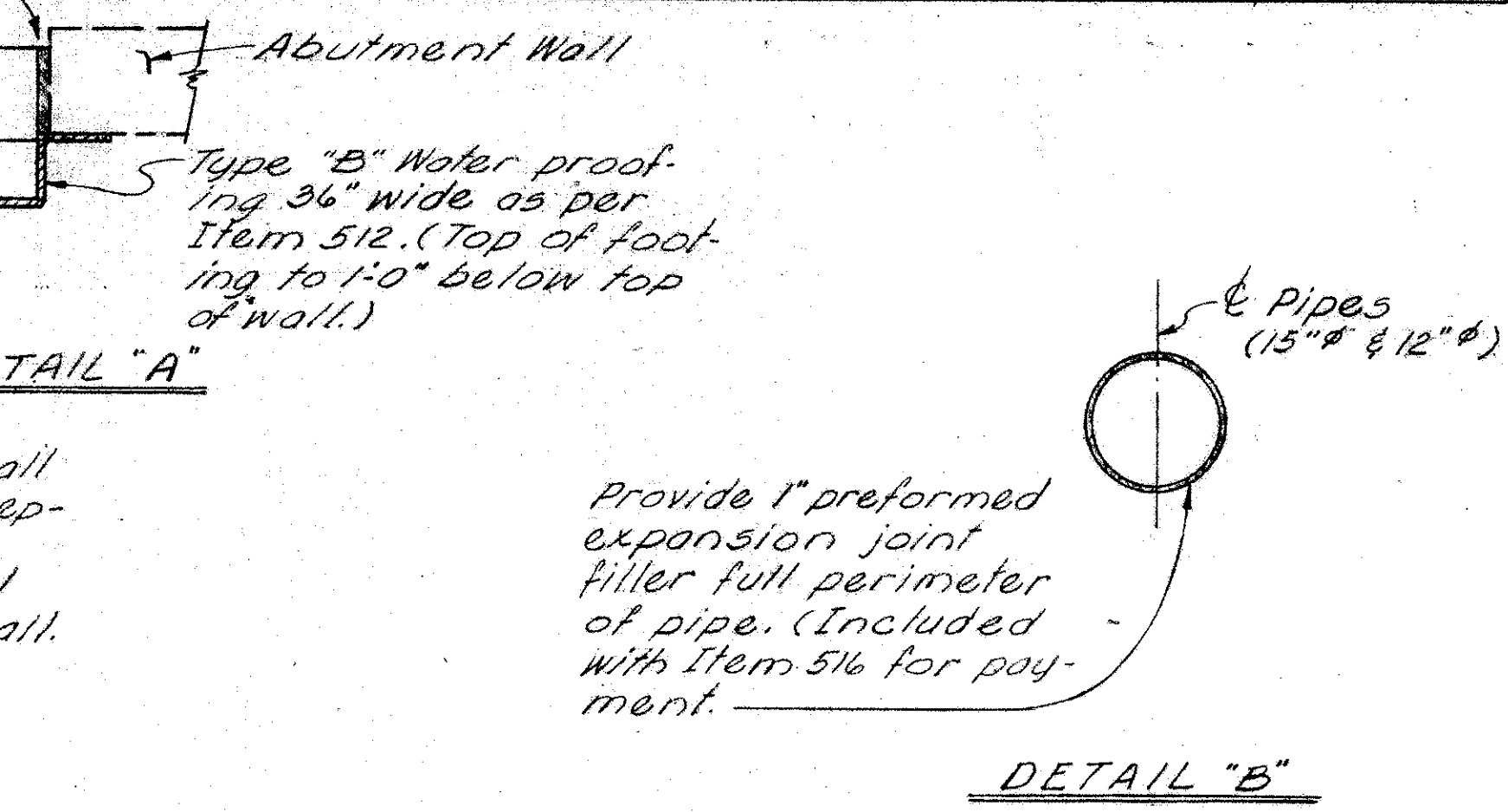
REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp.	Bending Diagram
W601	50	7'-5"	557	5	
W602	46	6'-10"	472	8	
W603	44	10'-6"	694	8	
W604	44	10'-6"	694	8	
W501	50	6'-9"	352	5	
W502	52	3'-6"	1,708	5	
W503	24	13'-11"	348	5	
W504	24	14'-2"	355	5	
W401	16	3'-0"	32	5	
W402	16	3'-0"	32	5	
W403	16	3'-0"	32	5	
W404	16	3'-0"	32	5	

*For Retaining Walls "A" "B" "C" & "D"

***Quantities carried to sheet No. 461**

Item	Total	Unit	Description
503	296	Cu.Yds.	Unclassified excavation
509	4,518	Lbs.	Reinforcing steel
511	59	Cu.Yds.	Class "E" concrete, footings
511	67	Cu.Yds.	Class "E" concrete, stems
512	18	Sq.Yds.	Type "B" Waterproofing
516	142	Sq. Ft.	1" Preformed expansion joint filler, AA5HO M-153
518	34	Cu.Yd.	Porous backfill



LEGEND

E.F. - Each Face
N.S. - Near Side
F.S. - Far Side
P.E.J.F. - Preformed Expansion Joint Filler

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RETAINING WALLS "A" & "B"
REINFORCING STEEL LIST
& ESTIMATED QUANTITIES

FRANKLIN COUNTY

STA. 159 + 28.90

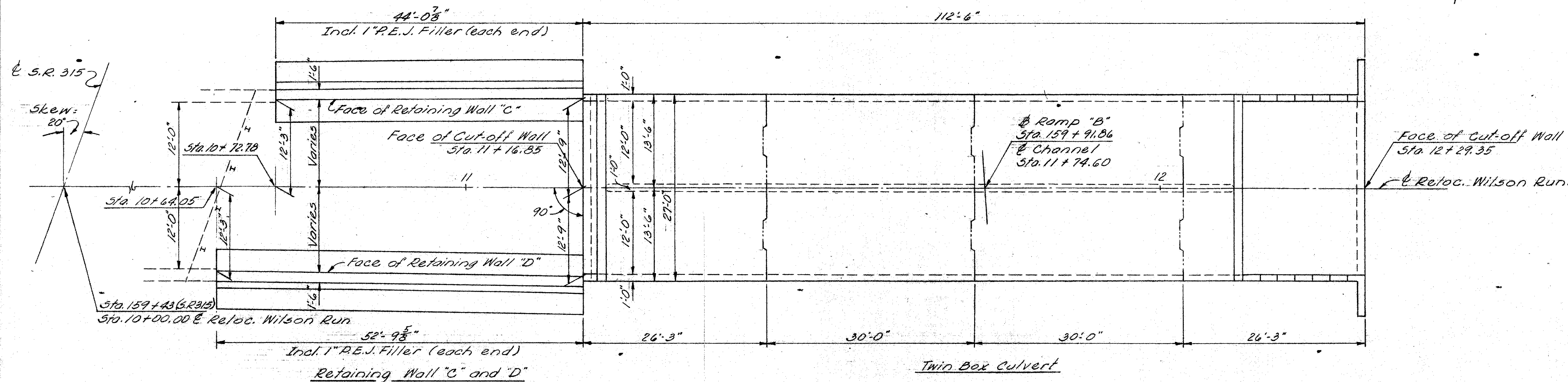
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DCM	DCM	DCM	DCM	DCM	8-67	

REPRODUCED
DEC 1 1979
REPRODUCED

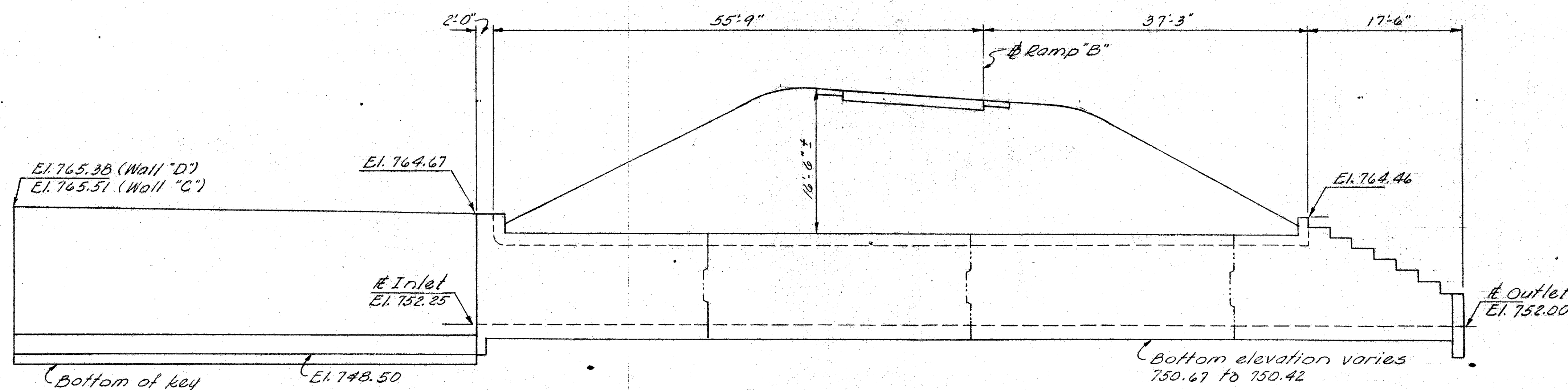
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

FRANKLIN COUNTY FRA-270-13.86M

452



PLAN



ELEVATION

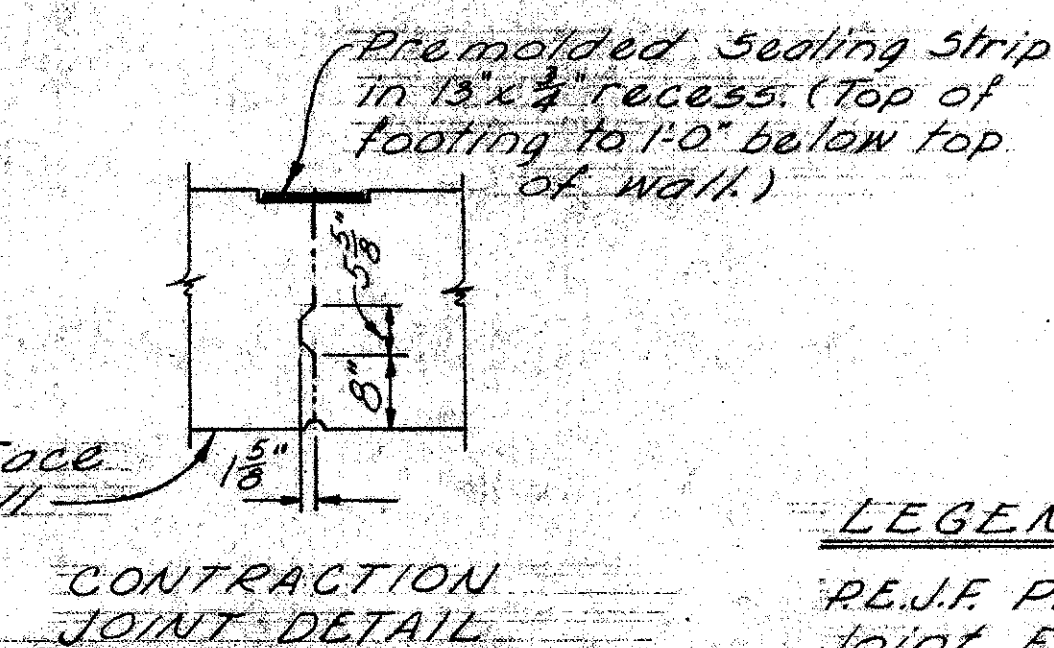
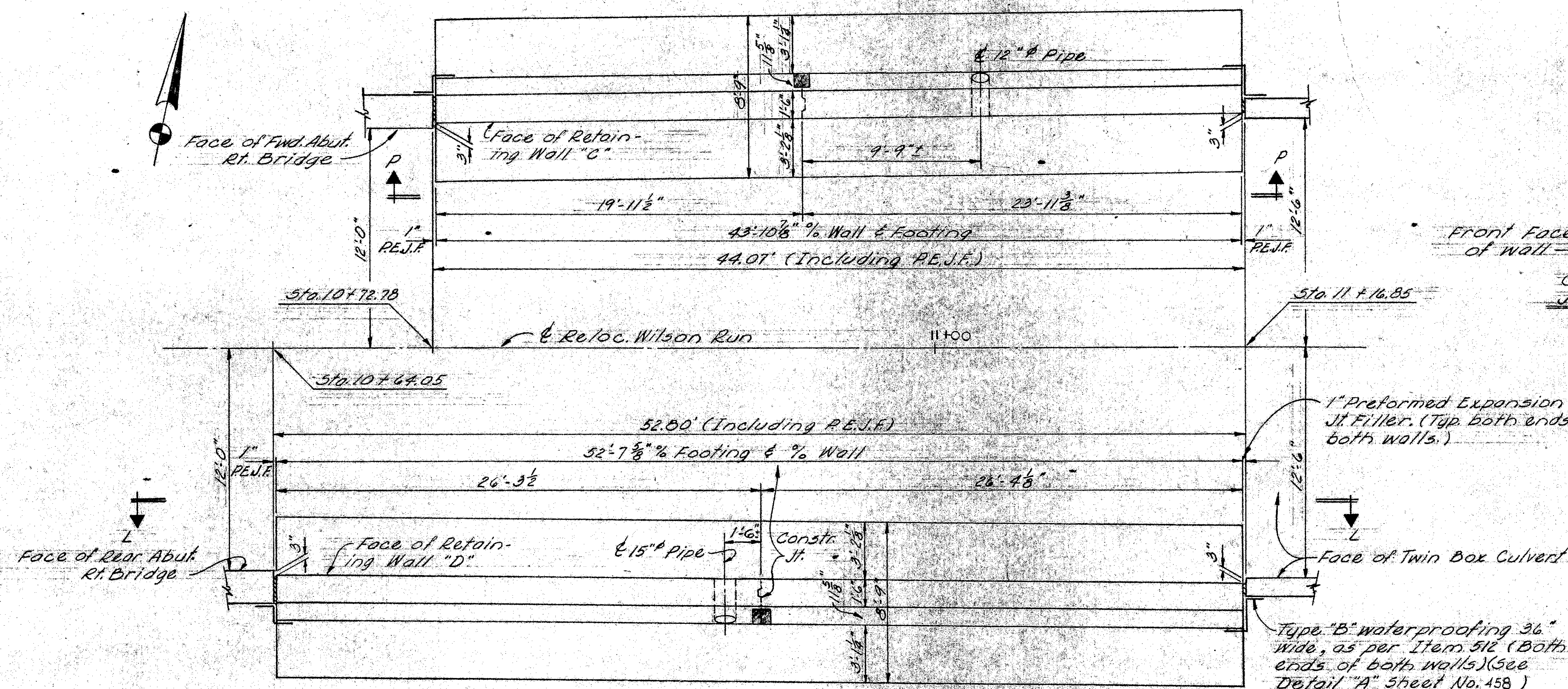
For General Notes see Sheet No. 452

FOUNDATION MATERIAL of approximately uniform bearing capacity is contemplated. Spots of soft earth shall be removed and replaced with thoroughly compacted granular material.

EMBANKMENT shall be placed symmetrically on both sides of the culvert after the top slab is in place. Embankment over the barrel shall be placed in horizontal layers simultaneously with that on each side of culvert.

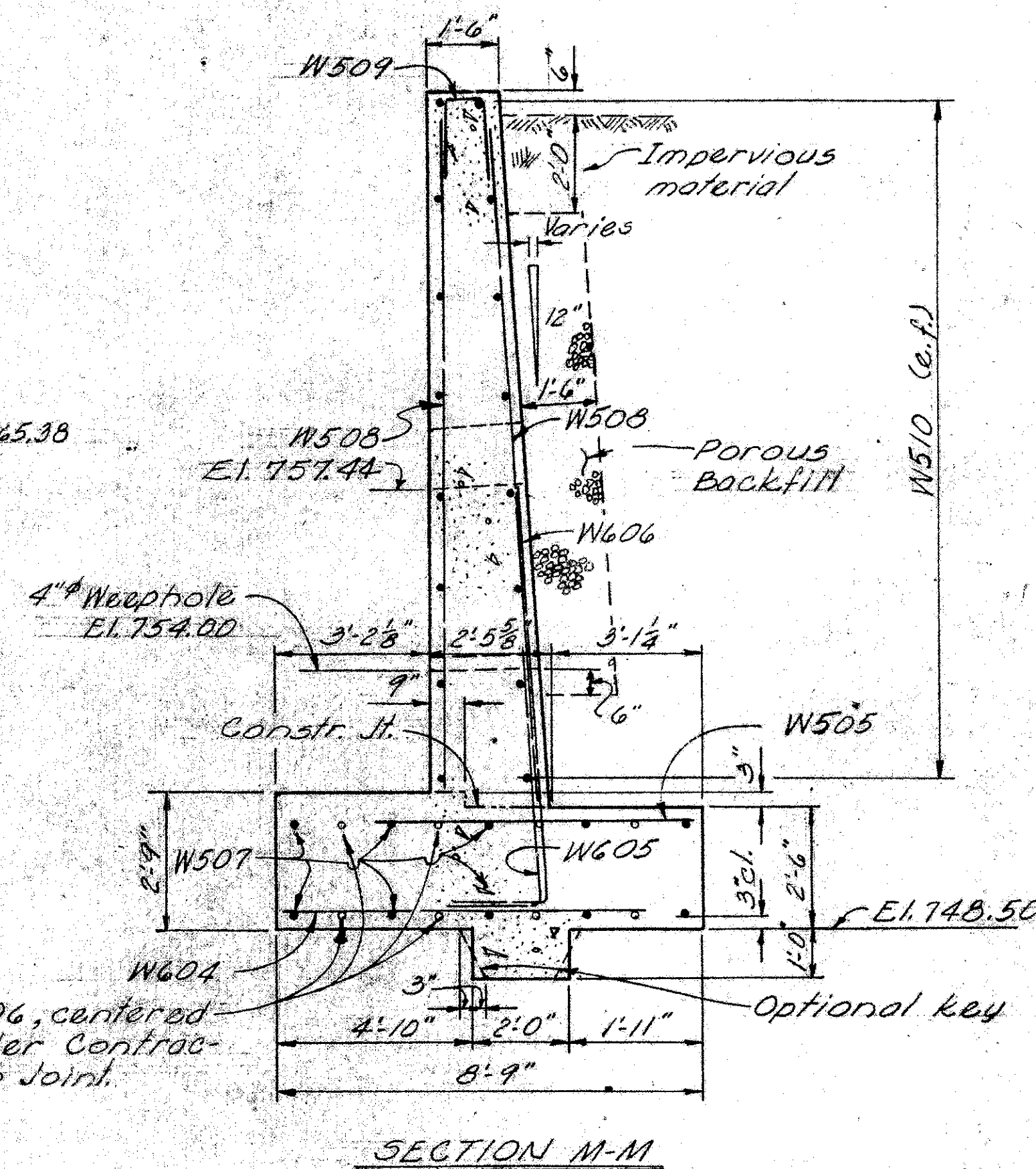
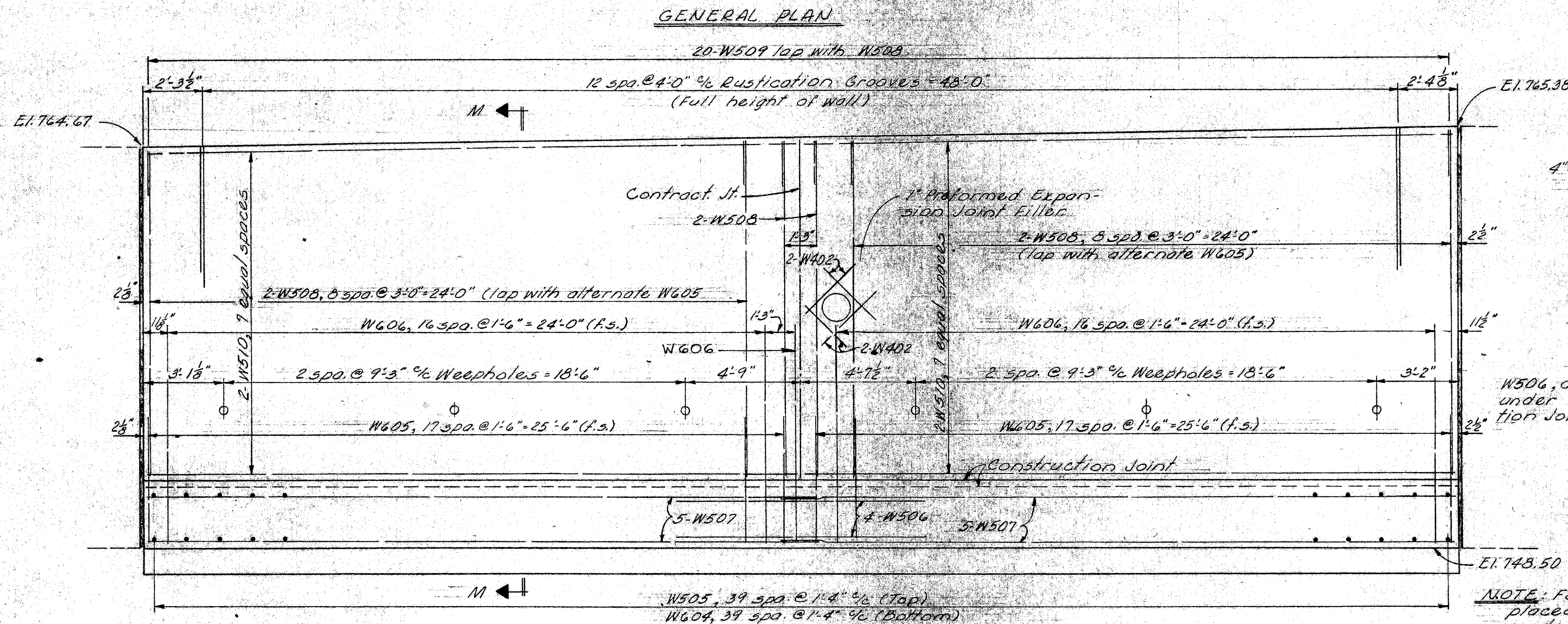
DELEUW, CATHAR & BRILL CONSULTING ENGINEERS NEW YORK, N. Y. • COLUMBUS, OHIO • BUFFALO, N. Y.					
GEN. PLAN & ELEVATION RETAINING WALL "C" & "D" & TWIN BOX CULVERT UNDER RAMP "B"					
FRANKLIN COUNTY SR. 315 STA. 159 + 23.90					
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE
MM	MM	MM	MM	MM	8-67

REPRODUCED
DEC 10 1970
REPRODUCED



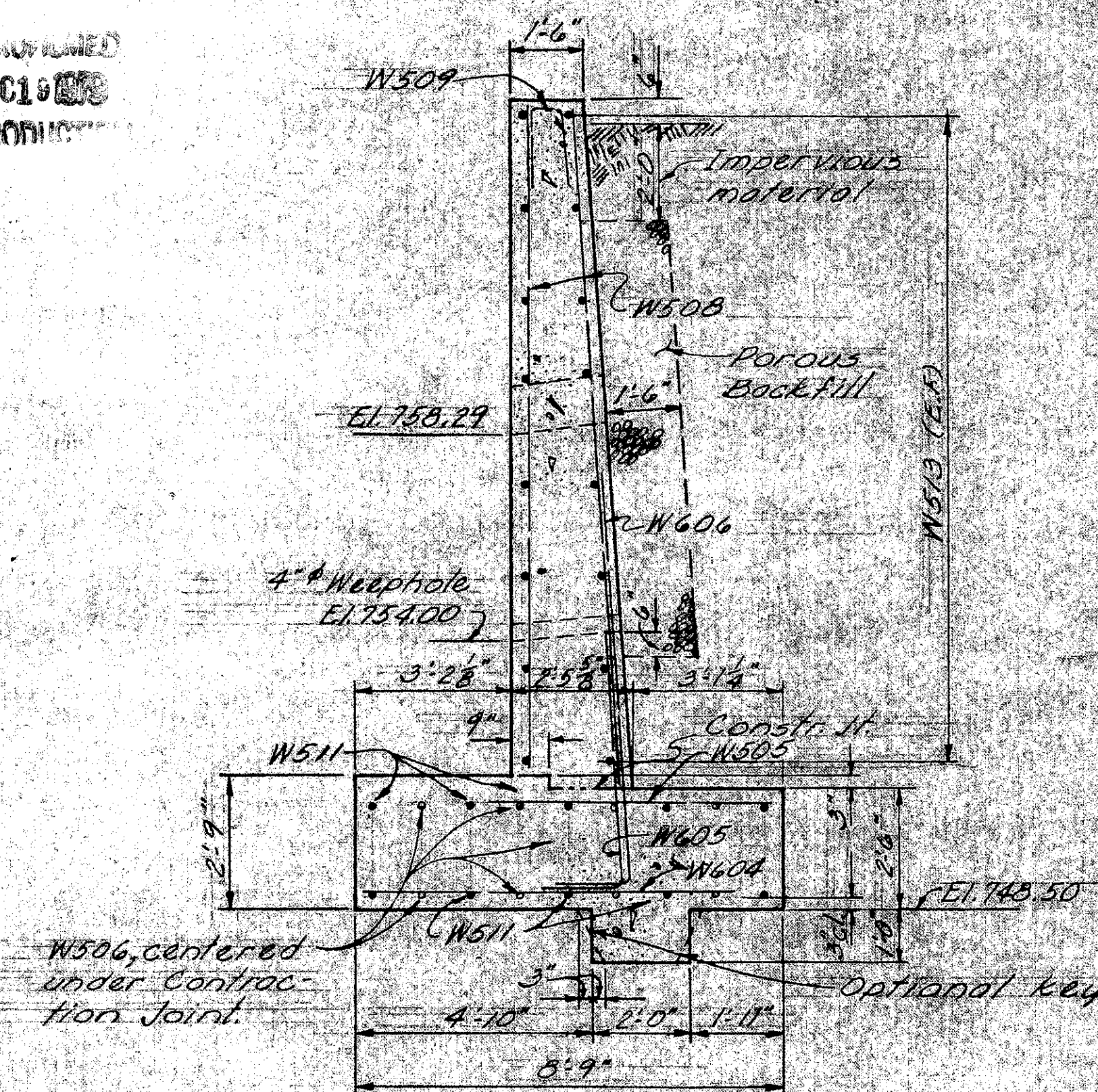
LEGEND
 PEJ.F. Preformed Expansion Joint Filler
 e.f. = each face
 N.S. = Near side
 F.S. = Far side

NOTE:
 See Sheet No. 441 for additional details and notes.



NOTE: Footing key shall be placed in a carefully made trench against undisturbed earth.

DE LEUW, CATHAR & BRILL CONSULTING ENGINEERS NEW YORK, N.Y. • COLUMBUS, OHIO • BUFFALO, N.Y.				
RETAINING WALL DETAILS RETAINING WALLS "C & D"				
FRANKLIN COUNTY				
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED
ACM	BMB		MM	AGW
				DATE 8-67



LEGEND

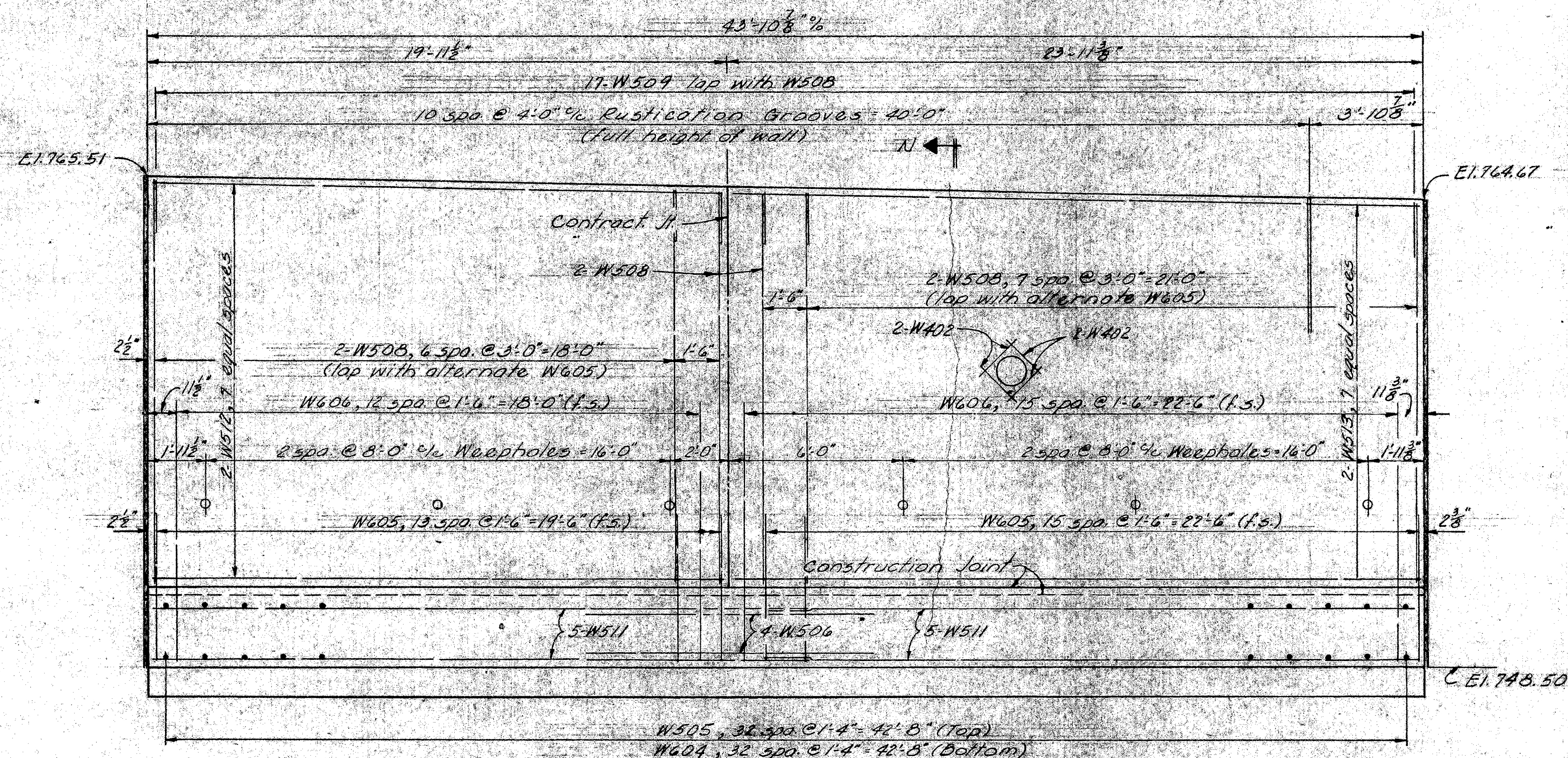
e.f. = each face
N.S. = Near side
F.S. = Far side

NOTE: See Sheet No. 458 for the following:

- Design Unit Stresses
- Excavation Limits
- Detail "A"
- Detail "B"
- Detail "C"
- Bar Size Note
- Porous Backfill Note
- Foundation Bearing Pressure

For Contraction Joint Detail
See Sheet No. 460

SECTION N-N



VIEW P-P
RETAINING WALL "C" (Looking North)

REINFORCING STEEL LIST

Wall "D"	Wall "C"	Mark	No.	Length	Weight	Shp	Bending Diagram
40	33	W604	73	7'-5"	813	S	
36	30	W605	66	6'-10"	677	B	
35	29	W606	64	10'-6"	1010	B	
40	33	W505	73	6'-9"	514	S	
8	8	W506	16	10'-0"	166	S	
20	—	W507	20	27'-1"	565	S	
40	34	W508	74	13'-3"	1023	S	
20	17	W509	37	4'-1"	158	B	
32	—	W510	32	26'-0"	868	S	
—	20	W511	20	22'-7"	471	S	
—	16	W512	16	19'-7"	327	S	
—	16	W513	16	23'-7"	394	S	
8	8	W402	16	3'-0"	32	S	

Code 7221 State & Federal Partic

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Wall 'C'	Wall 'D'	Walls A+B
503	690	Cu.Yd.	Unclassified excavation	169	225	296
509	11,536	Lbs.	Reinforcing steel	3,199	3,812	4,518
511	166	Cu.Yd.	Class "E" concrete, stems	45	54	67
511	148	Cu.Yd.	Class "E" concrete, footings	40	49	59
512	36	Sq.Yd.	Type "B" waterproofing	9	9	10
512	26	Lin.Ft.	Premolded sealing strip	13	13	
516	254	Sq.Ft.	1" Preformed expansion joint filler, AASHO M-153	56	56	142
518	83	Cu.Yd.	Porous backfill	22	27	34

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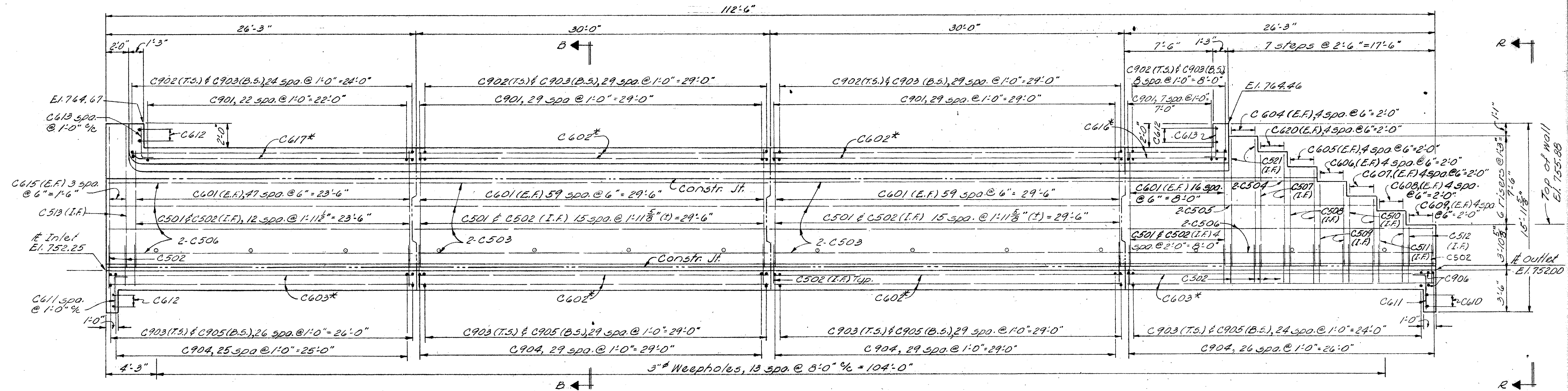
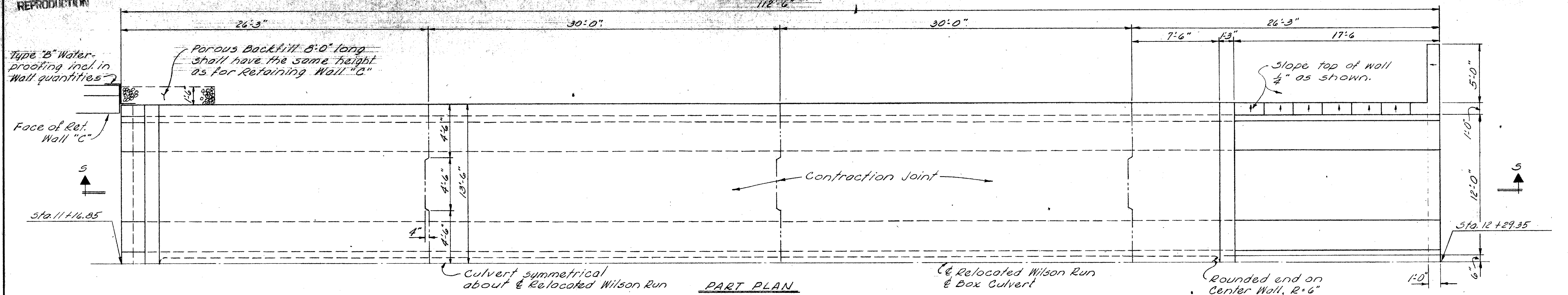
RETAINING WALLS 'C' & 'D' REINFORCING STEEL LIST & ESTIMATED QUANTITIES

FRANKLIN COUNTY 52315

STA. 159+28.9

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISION
DCB	AOB		MM A-31-67	824	8-67	

MICROFILMED
DEC 20 1979
REPRODUCTION



SECTION S-S

LEGEND

I.F. - Interior Face
E.F. - Exterior Face
T.S. - Top of Slab
B.S. - Bottom of Slab

NOTE: See Sheet No. 463 for Sections B-B and C-C and Contraction Joint Detail.

Concrete shall be Class "C"

* See section B-B for spacing

DE LEUW, CATHAR & BRILL

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COLUMBUS, OHIO

BUFFALO, N. Y.

BOX CULVERT DETAILS

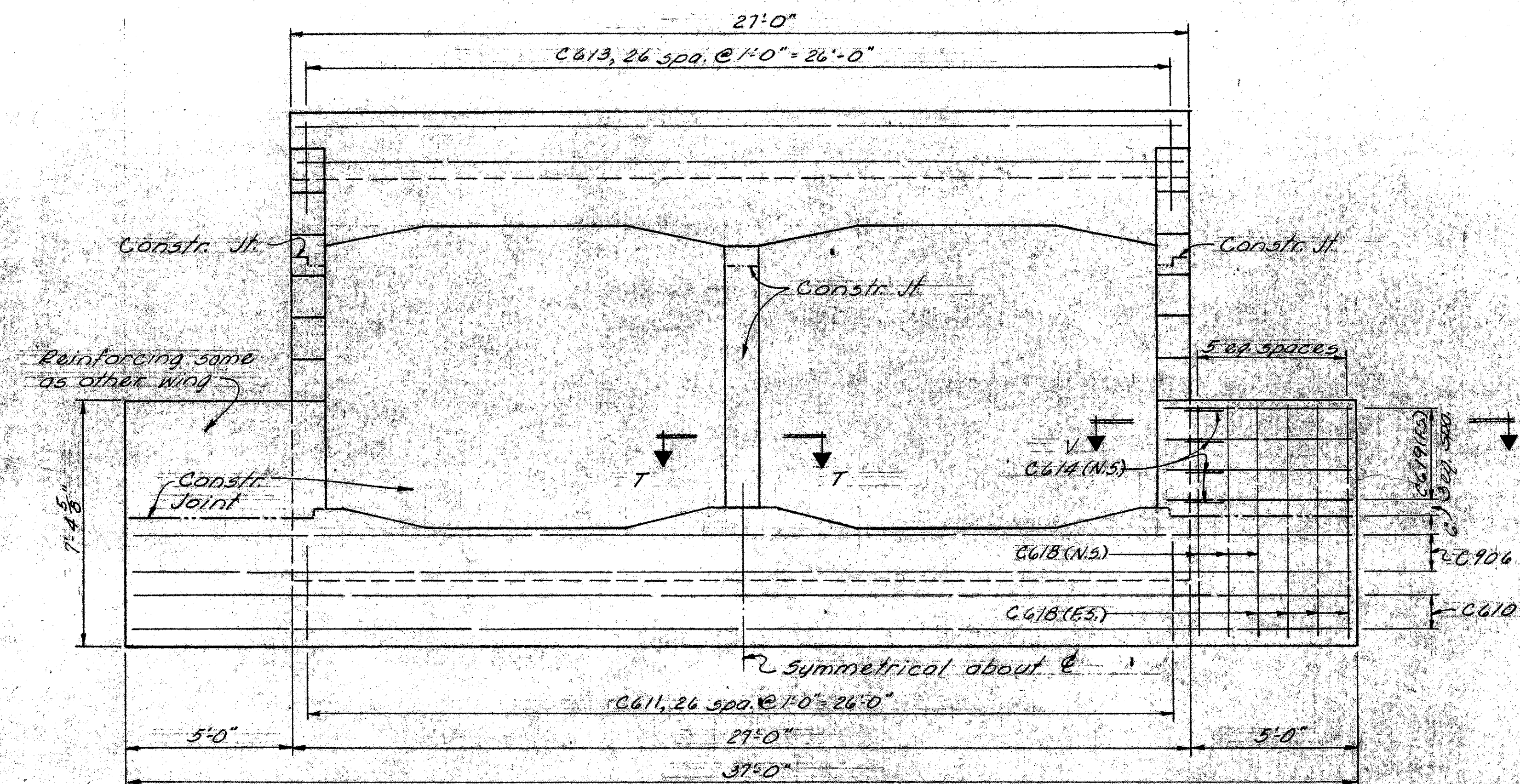
TWIN BOX CULVERT UNDER RAMP "B"

FRANKLIN COUNTY

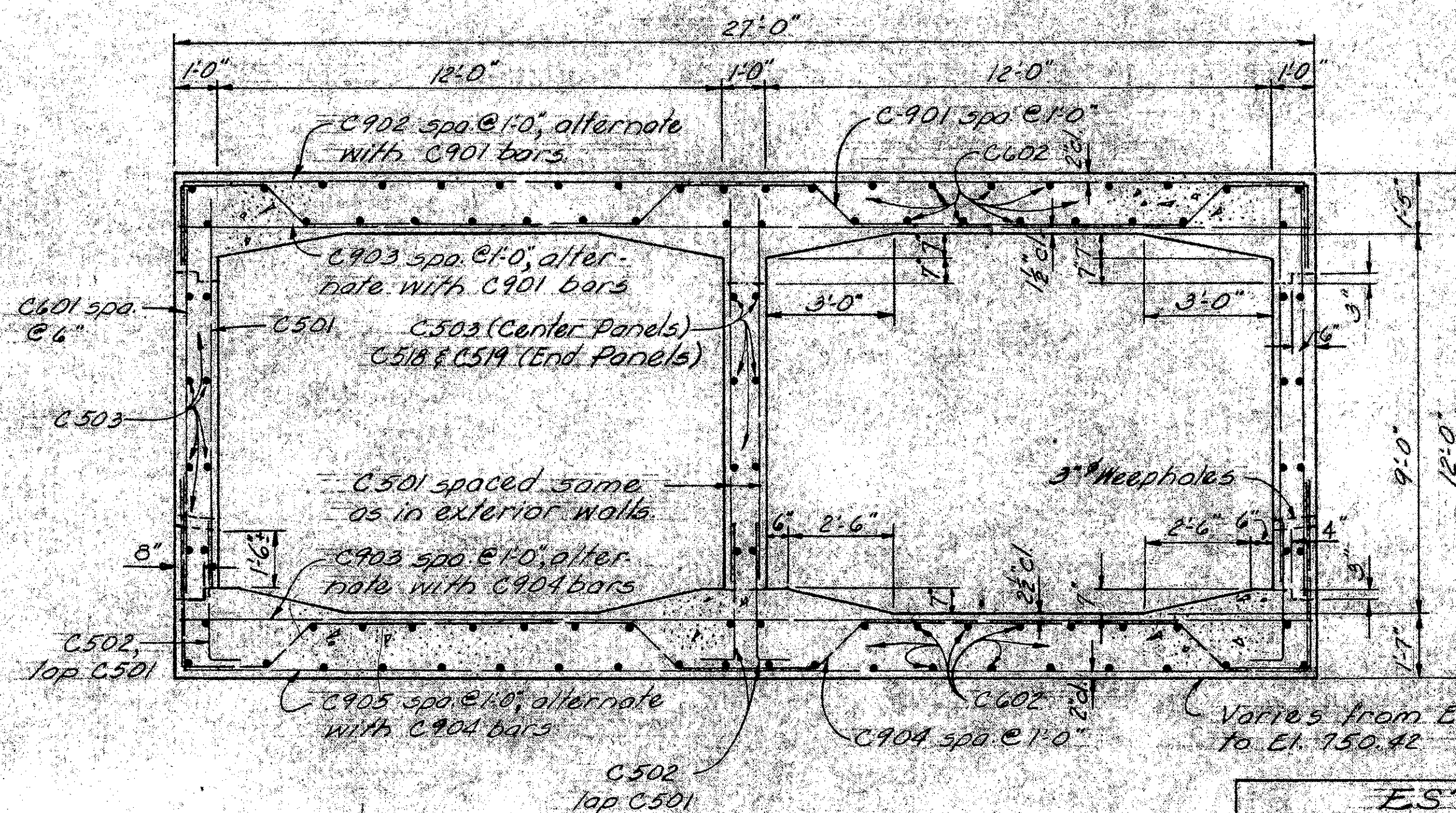
STA. 159+28.90

DATE 8-67

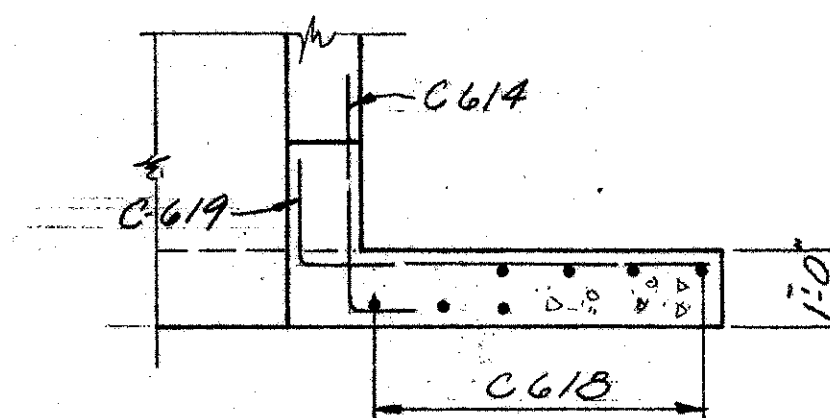
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V.L.A.	B.M.		M.M.	B.G.V.	8-67	



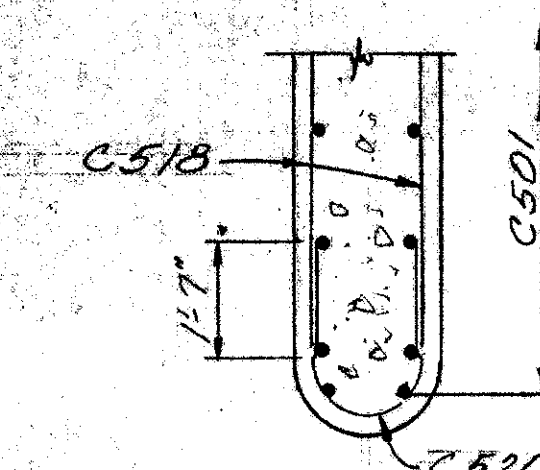
VIEW R-R



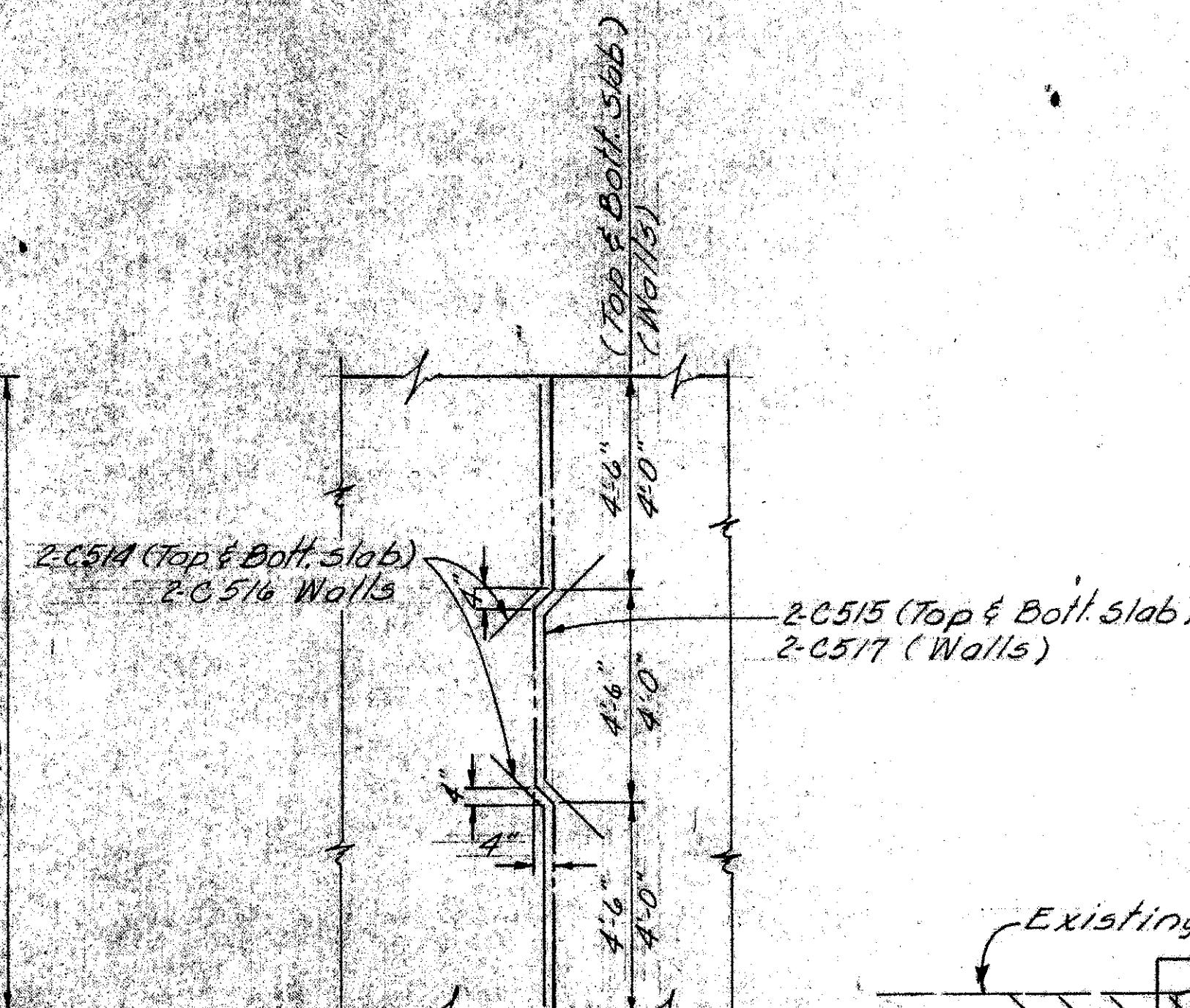
SECTION B-B



SECTION V-V

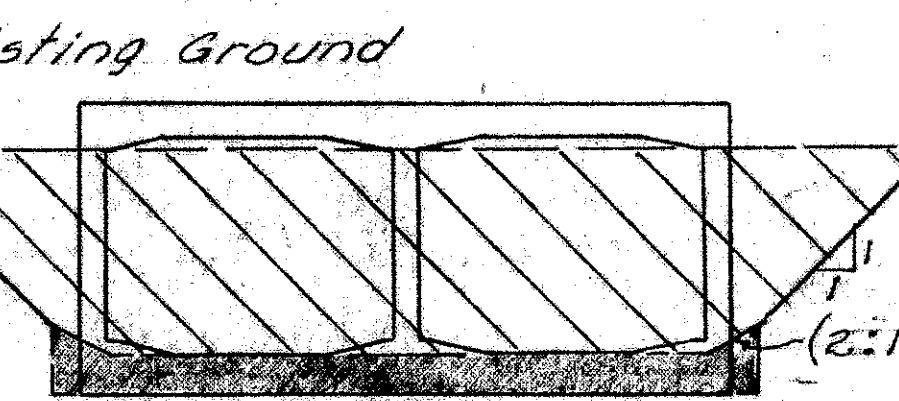


SECTION T-T



CONTRACTION JOINT DETAIL

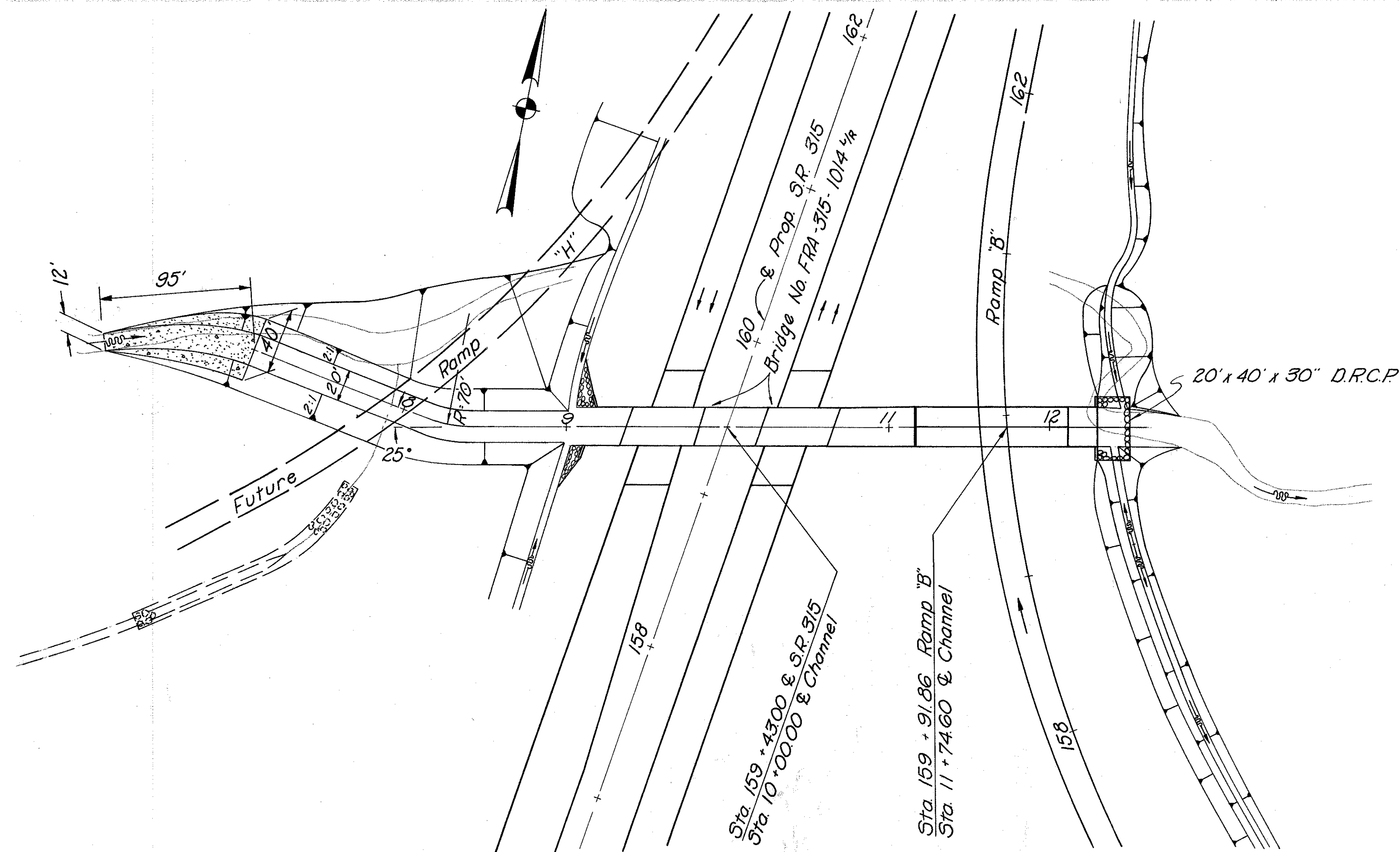
ESTIMATED QUANTITIES			
Item	Total	Unit	Description
503	208	Cu.Yd.	Unclassified excavation
509	30,669	Lbs.	Reinforcing steel
511	455	Cu.Yd.	Class "C" concrete
518	8	Cu.Yd.	Permeable backfill



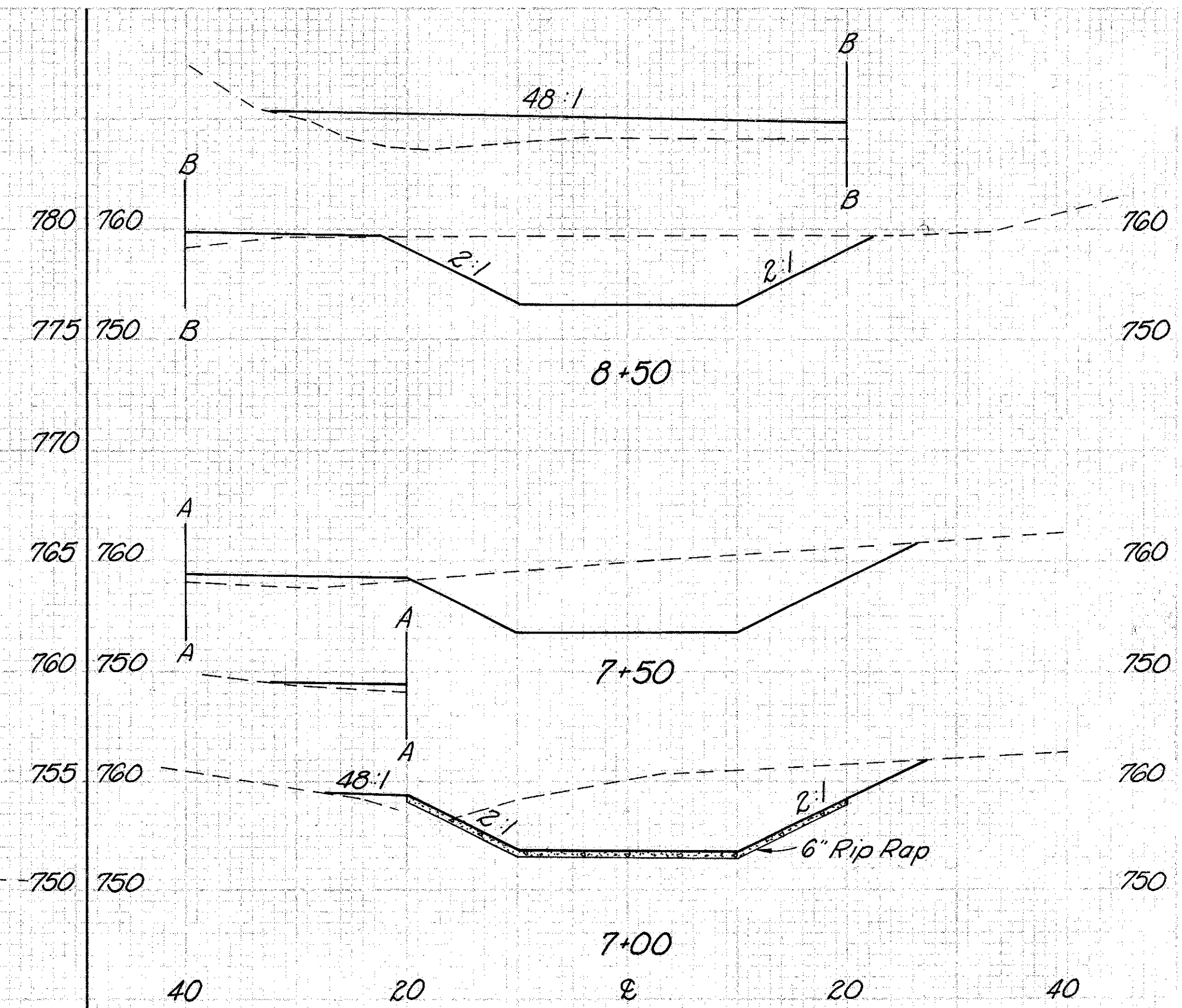
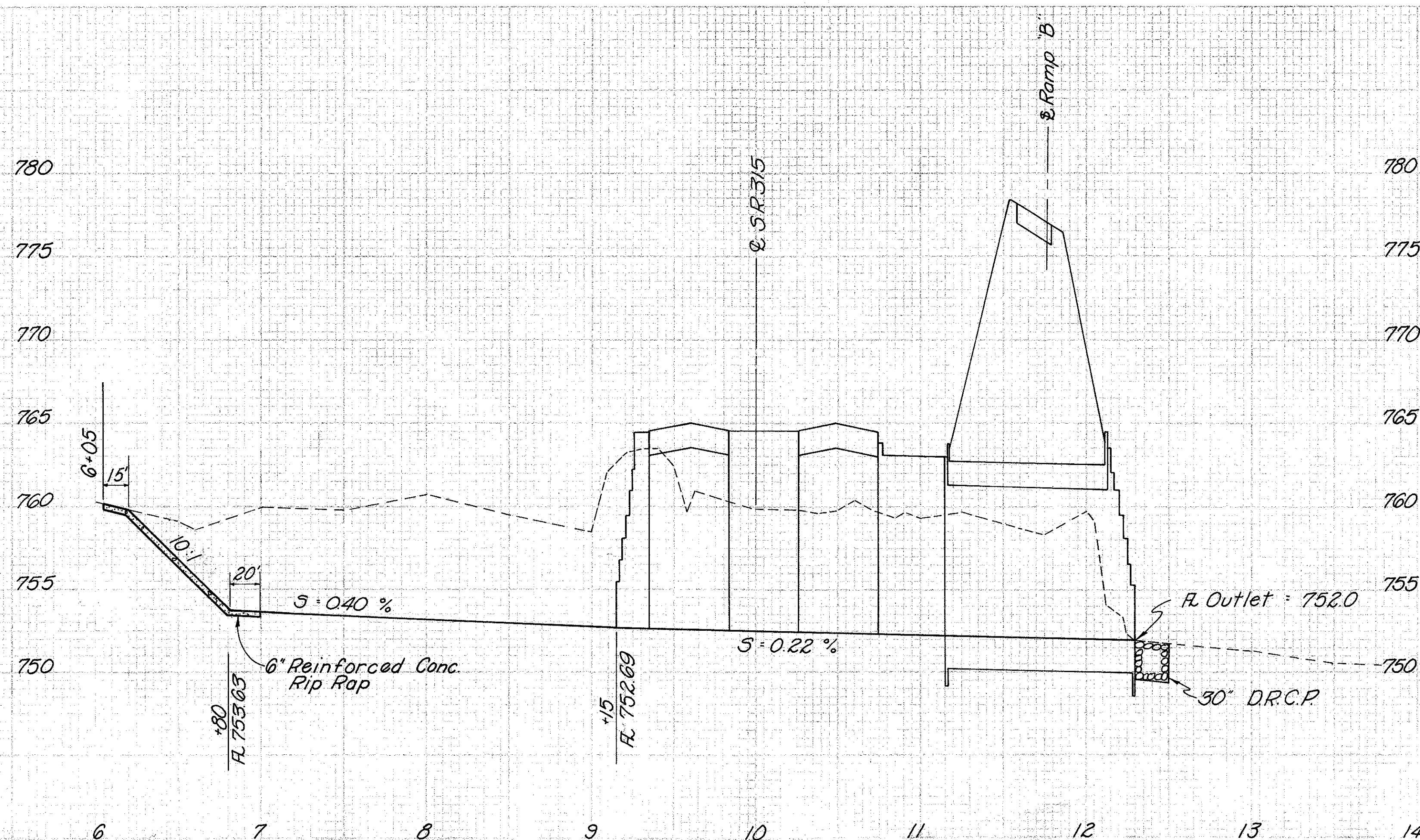
UNRECORDED
DEC 1 1979
REPRODUCTION

PROJECT NO.	STATE	COUNTY	SECTION
2	OHIO	FRANKLIN	450A

FRANKLIN COUNTY
FRA-270-13.86 N



Drainage Area = 2.8 Sq. Miles
Q₁₀ = 900 c.f.s.
Q₅₀ = 1356 c.f.s.



SUPPLEMENTAL SITE PLAN
BRIDGE No. FRA-315-1014 LT/RT.

WILSON RUN PLAN & PROFILE 4070