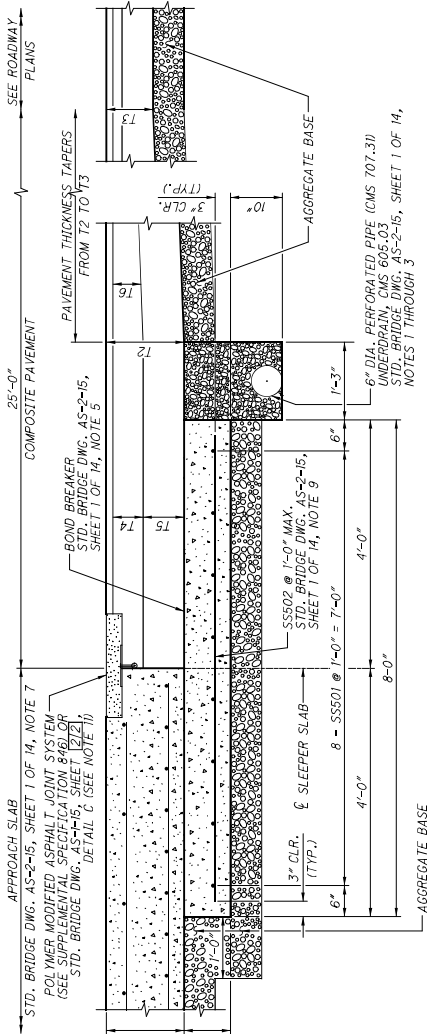


COORDINATES: LATITUDE N 41°-28'-29.77"
LONGITUDE W 81°-42'-59.30"



GENERAL NOTES (1 OF 2) BRIDGE NO. CUY-090-1345 WEST 44TH STREET OVER I-90 PID NO. 105792	DESIGNED L.W. JSP REVIEWED J.D.H. 7/17/2019 CHECKED S.J.P. 1807/811 STRUCTURE FILE NUMBER	MS 6608 St. Clair Avenue Cleveland, OH 44103-2066 ms consultants, inc. DESIGN AGENCY
---	---	--

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

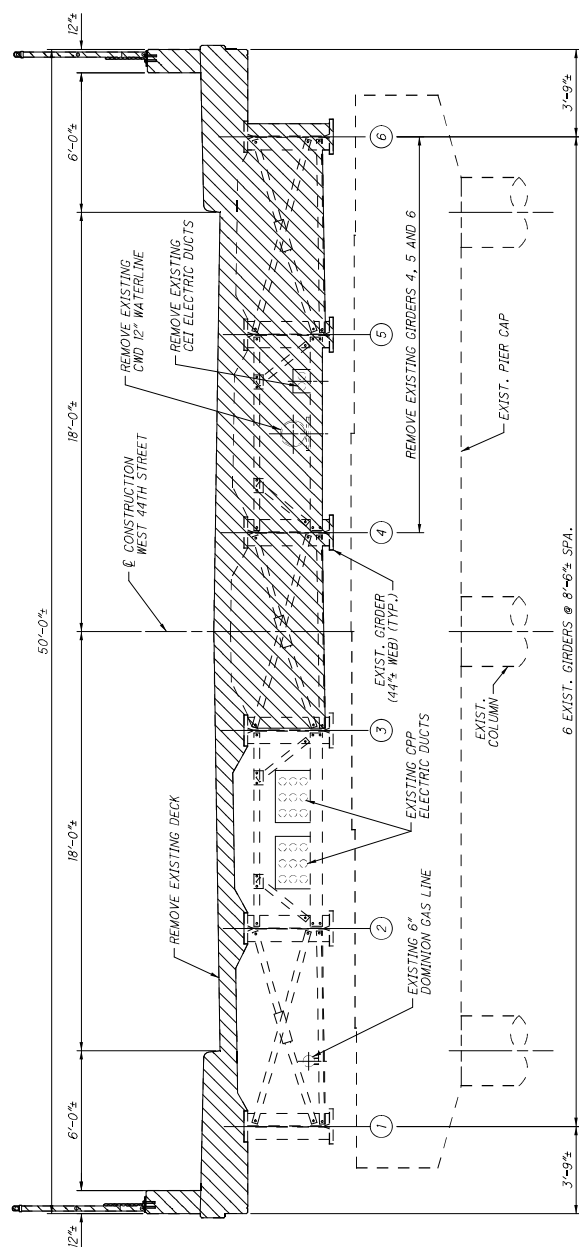


TYPICAL FORM LINER ELEVATION
(AS VIEWED FROM SIDEWALK)

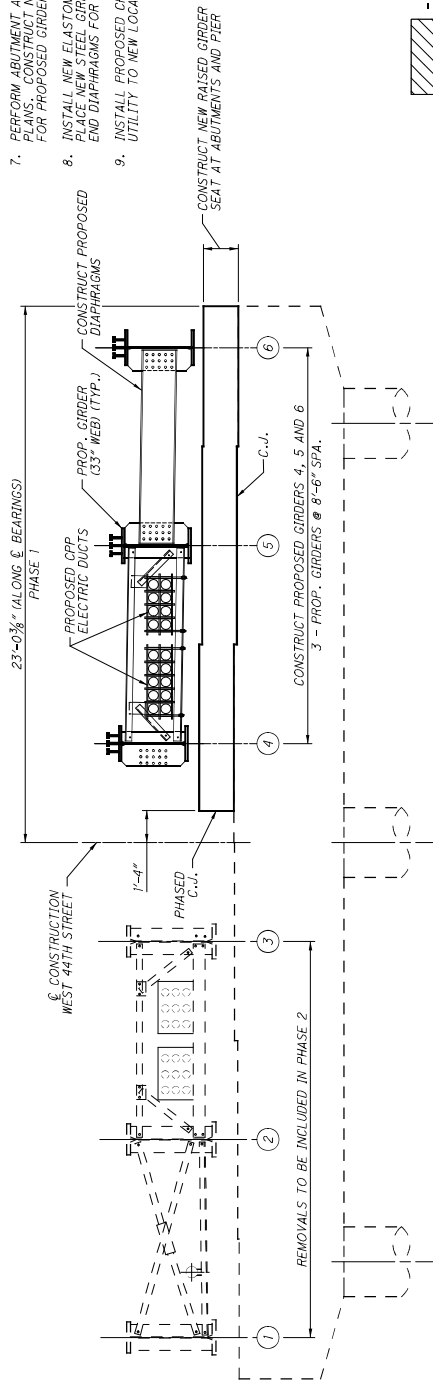
ESTIMATED QUANTITIES												
ITEM	ITEM EXT.	PARTICIPATION			TOTAL	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL	SHEET REF.
		01/BRO./BR	02/BRO./BR	03/BRO./BR								
202	11203	LS		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					LS	2
202	22900	240		240	SY	APPROACH SLAB REMOVED					240	
202	23500	240		240	SY	WEARING COURSE REMOVED						
503	11100	LS		LS		COFFERDAMS AND EXCAVATION BRACING					LS	
509	10000	106,810		106,810	LB	EPOXY COATED REINFORCING STEEL	10,317	1,309		91,824	3,360	
510	10000	362		362	EACH	DOMEL HOLES WITH NONSHRINK, NONMETALLIC GROUT		268	94			
511	34447	269		269	CY	GLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK, AS PER PLAN				269		3
511	34450	45		45	CY	GLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET)				45		
511	42510	12		12	CY	GLASS OC1 CONCRETE, PIER CAP			12			
511	45710	55		55	CY	GLASS OC1 CONCRETE, ABUTMENT		55				
511	51612	133		133	CY	GLASS OC2 CONCRETE WITH OC/OA, SIDEWALK				107	26	
512	10050	462		462	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)				462		
512	10100	1,082		1,082	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		492	120	470		
512	10600	33		33	FT	CONCRETE REPAIR BY EPOXY INJECTION		33				
512	33000	11		11	SY	TYPE 2 WATERPROOFING		11				
513	10280	265,003		265,003	LB	STRUCTURAL STEEL MEMBERS, LEVEL 4				265,003		
513	20000	3,168		3,168	EACH	WELDED STUD SHEAR CONNECTORS				3,168		
514	00060	14,468		14,468	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT				14,468		
514	00066	14,468		14,468	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT				14,468		
516	11210	101		101	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL				101		
516	13600	86		86	SF	1" PREFORMED EXPANSION JOINT FILLER		86				
516	44100	12		12	EACH	ELASTOMERIC BEARING (10" X 16" X 3.0488") WITH INTERNAL LAMINATES (NEOPRENE) AND LOAD PLATE (11" X 19" X 1.5" MIN.)		12				
516	44200	6		6	EACH	ELASTOMERIC BEARING (18" X 20" X 3.0235") WITH INTERNAL LAMINATES (NEOPRENE) AND LOAD PLATE (19" X 30.5" X 1.5" MIN.)			6			
518	21200	45		45	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC		45				2
519	11101	537		537	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		153	384			
526	30011	318		318	SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=17"), AS PER PLAN					318	2
526	90010	96		96	FT	TYPE A INSTALLATION					96	
SPECIAL	530E13000	733		733	SF	FORMLINER				733		3
601	20010	37		37	CY	CRUSHED AGGREGATE SLOPE PROTECTION					37	
607	39801	367		367	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN				367		3
SPECIAL	E90E98000				EACH	DOMINION ENERGY ROLLER GUIDE/SUPPORT				11		3
844	10001	743		743	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN		743				3

1. PLACE TRAFFIC CONTROL AND CLOSE WEST 44TH STREET TO BRIDGE TRAFFIC BETWEEN NORTH AND SOUTH MARGINAL ROAD.
2. PLACE TRAFFIC CONTROL FOR EASTBOUND AND WESTBOUND I-40.
3. INSTALL FALSEWORK TO PROTECT I-40 TRAFFIC.
4. REMOVE EXISTING APPROACH SLABS, BRIDGE DECK AND ABUTMENT BACKWARDS DOWN TO ABUTMENT SEATS.
5. DISCONNECT EXISTING 12" CWD WATERLINE AND CET ELECTRIC DUCTS.
6. REMOVE EXISTING GRIER LINES 4, 5 AND 6 ALONG WITH CROSSFRAMES, UTILITIES AND EXISTING BEARINGS.
7. PERFORM ABUTMENT AND PIER PATCHING AS NOTED ON THE PLANS. CONSTRUCT NEW ABUTMENT SEATS AND PIER SEATS FOR PROPOSED GRIDERS 4, 5 AND 6.
8. INSTALL NEW ELASTOMERIC BEARINGS AT ABUTMENTS AND PIER. PLACE NEW STEEL GIRDETS, INTERMEDIATE CROSSFRAMES AND END DIAPHRAGMS FOR GIRDER LINES 4, 5 AND 6.
9. INSTALL PROPOSED OPP ELECTRICAL DUCTS AND TRANSFER UTILITY TO NEW LOCATION.


PHASE 1 - REMOVALS
(AT EXISTING PIER)

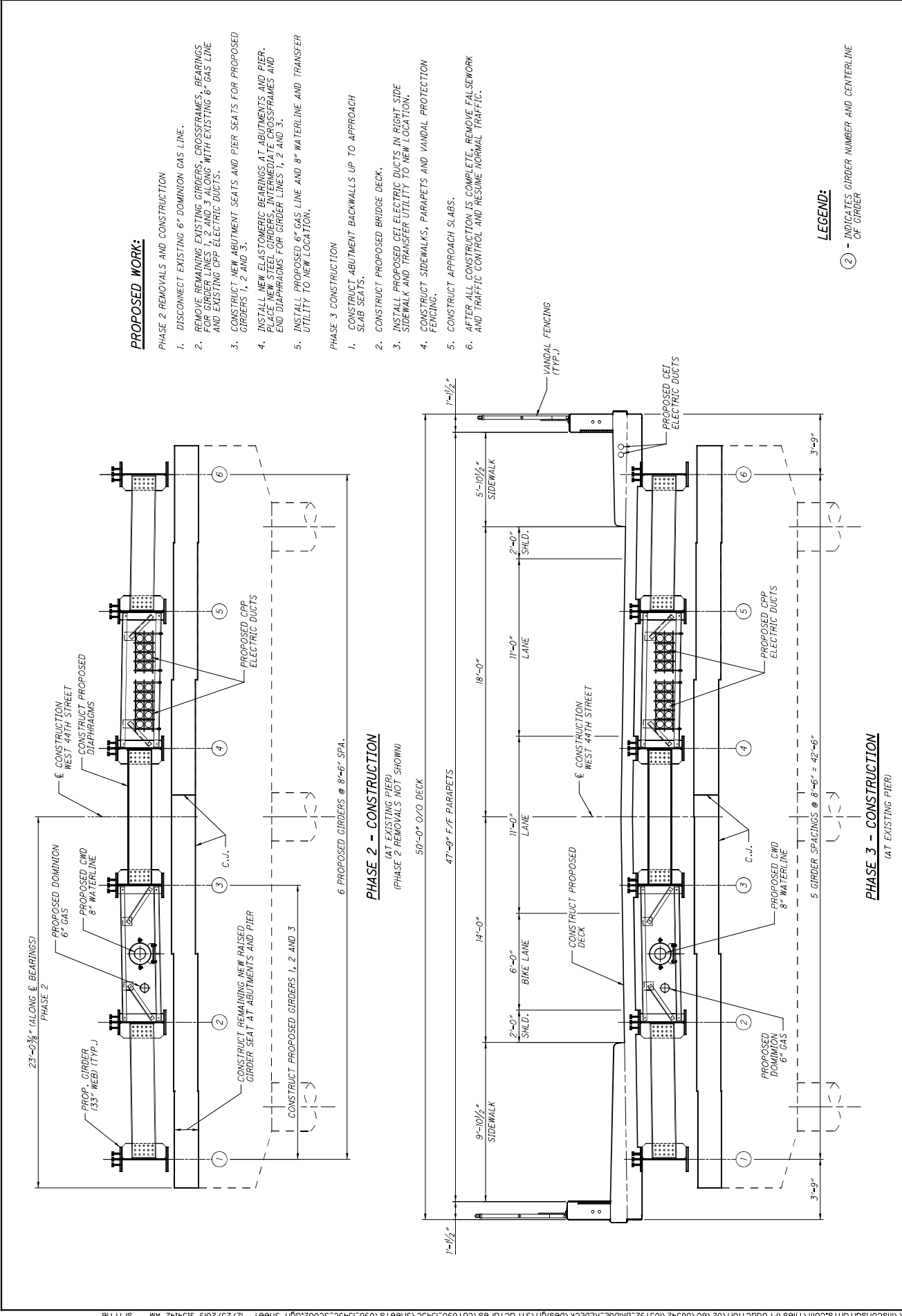


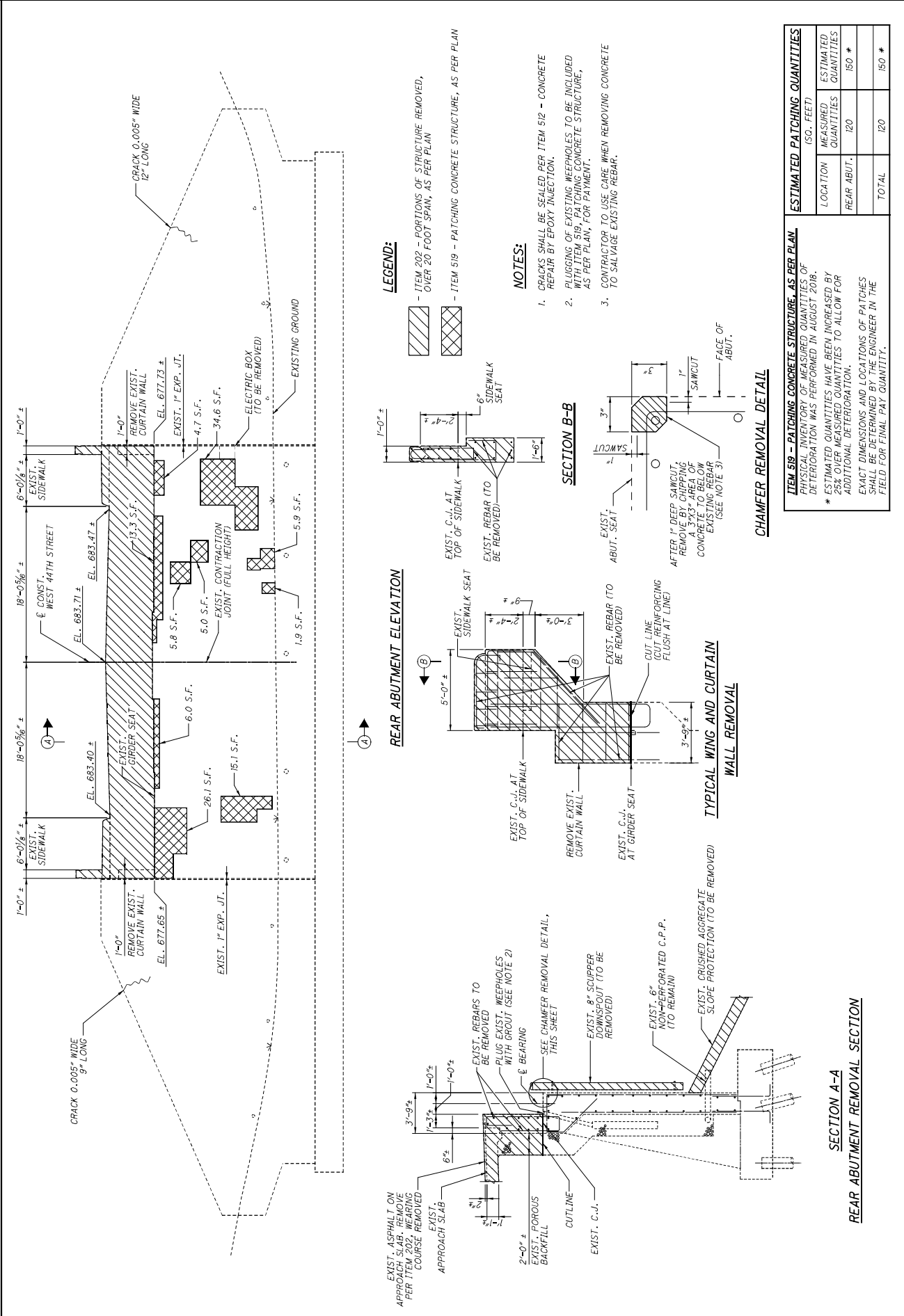
PHASE 1 - CONSTRUCTION
(AT EXISTING PIER)

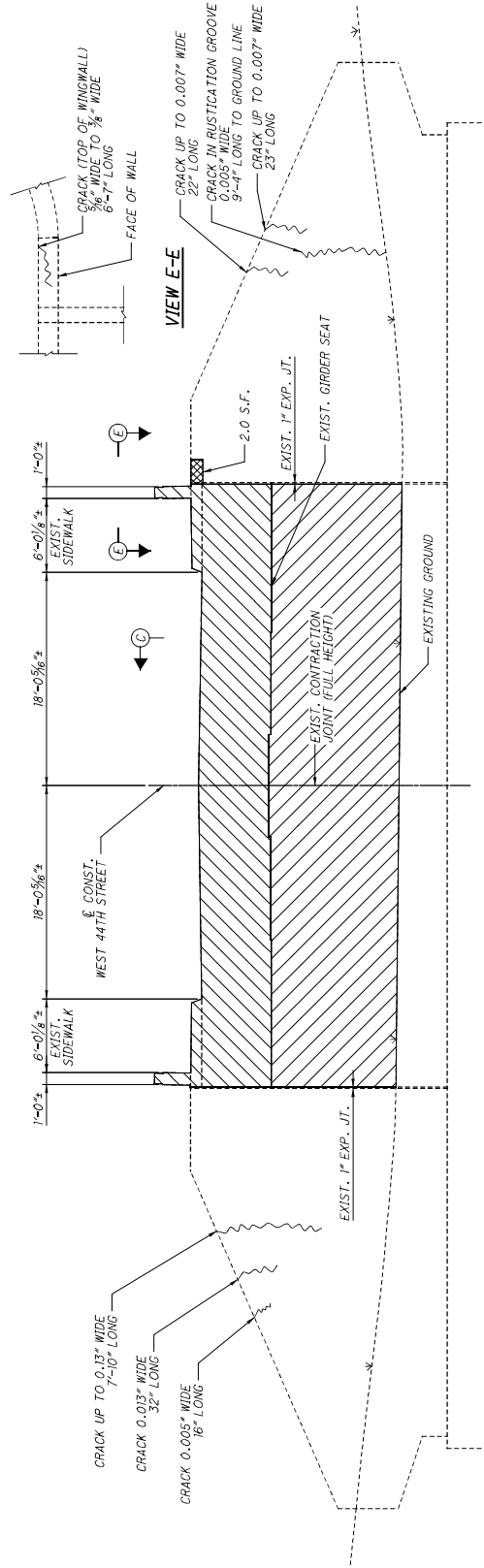


LEGEND:

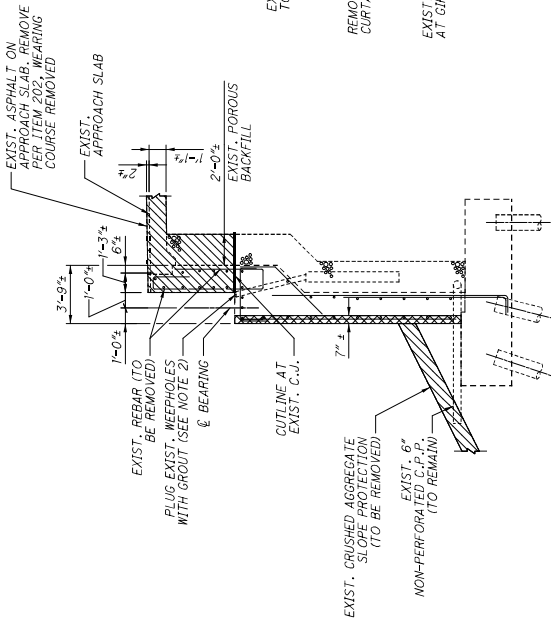
-  - ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
 (2) - INDICATES GIRDER NUMBER AND CENTERLINE OF GIRDER



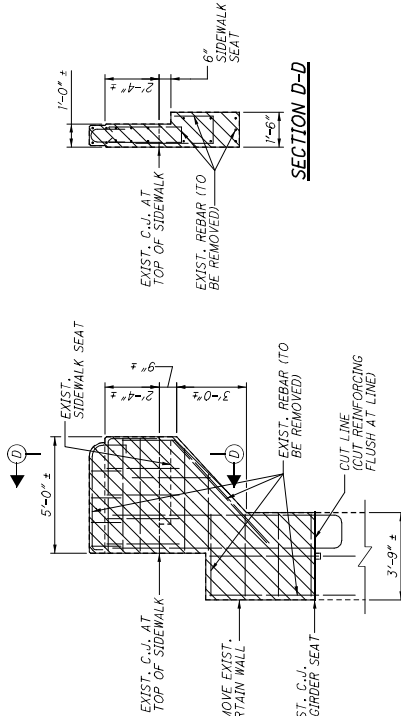




FORWARD ABUTMENT ELEVATION



SECTION C-C
FORWARD ABUTMENT REMOVAL SECTION



TYPICAL WING AND CURTAIN
WALL REMOVAL

ITEM 519 – PATCHING CONCRETE STRUCTURE, AS PER PLAN
PHYSICAL INVENTORY OF MEASURED QUANTITIES OF
DETERIORATION WAS PERFORMED IN AUGUST 2018.




ESTIMATED PATCHING QUANTITIES		
	(SQ. FEET)	
LOCATION	MEASURED QUANTITIES	ESTIMATED QUANTITIES
FWD. ABUT.	2	3 *
TOTAL	2	3 *

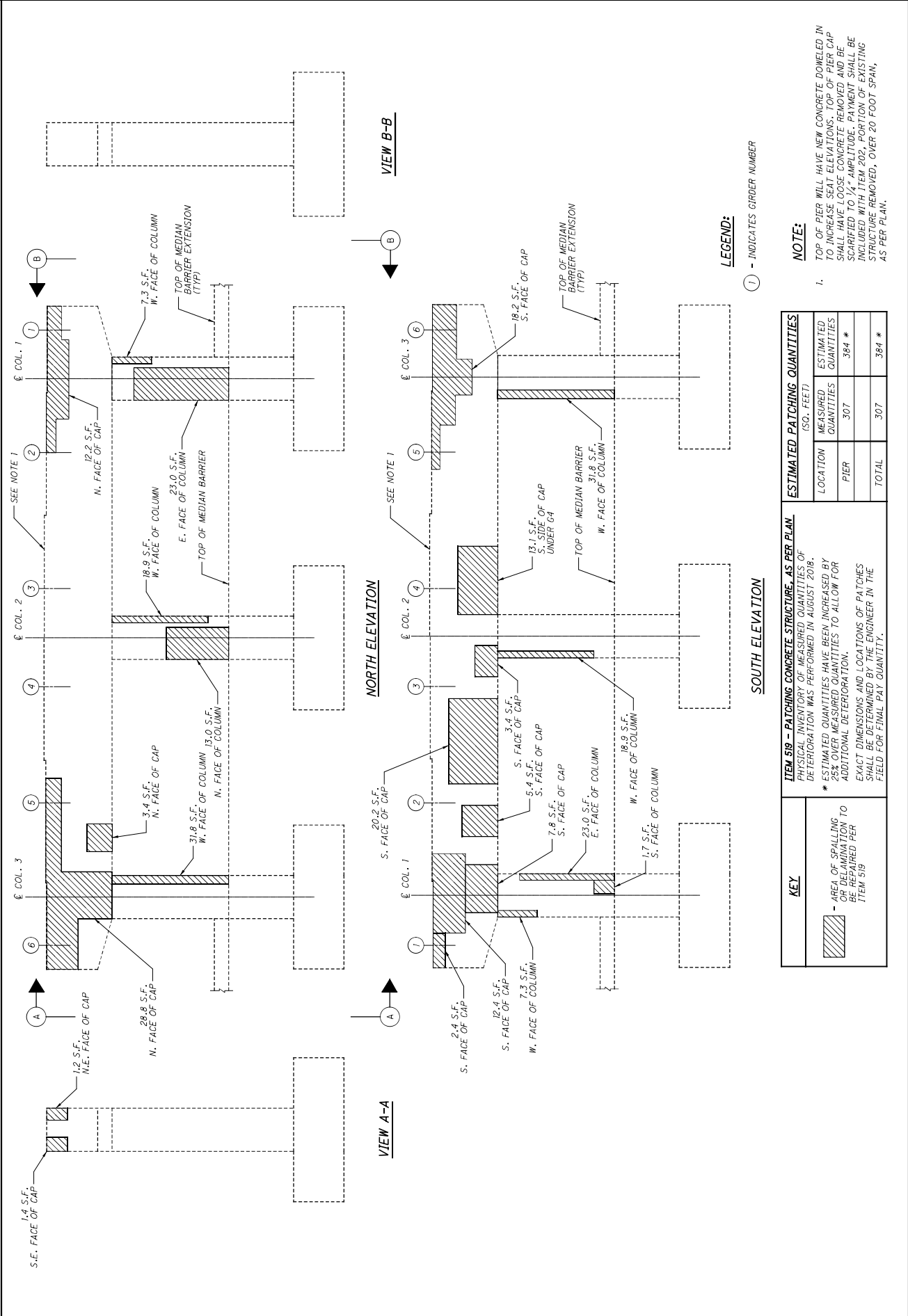
EXACT DIMENSIONS AND LOCATIONS OF PATCHES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD FOR FINAL PAY QUANTITY.

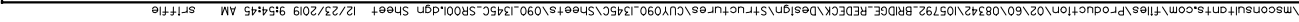
NOTES:

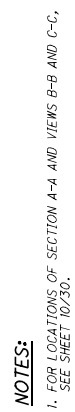
1. CRACKS SHALL BE SEALED PER ITEM 512 - CONCRETE REPAIR BY EPOXY INJECTION.
2. PLUGGING OF EXISTING WEEPHOLES TO BE INCLUDED WITH ITEM 519, PATCHING CONCRETE STRUCTURE, AS PER PLAN, FOR PAYMENT.

LEGEND:

-  - ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN
 - ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN
 - ITEM 844 - CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION

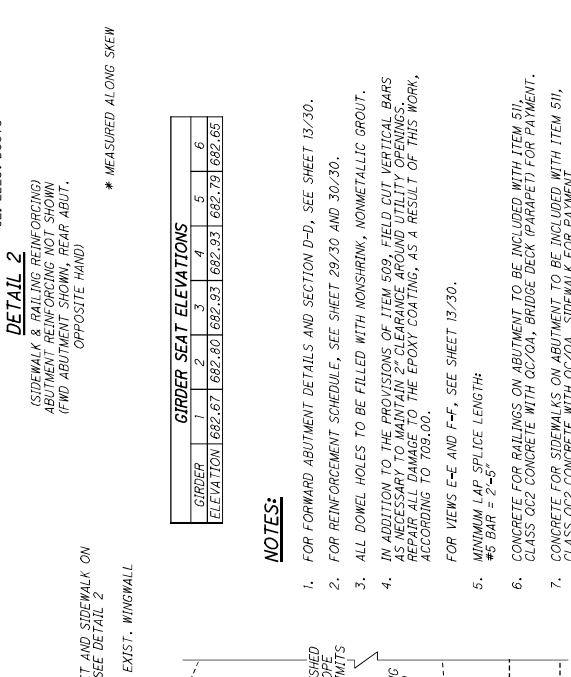
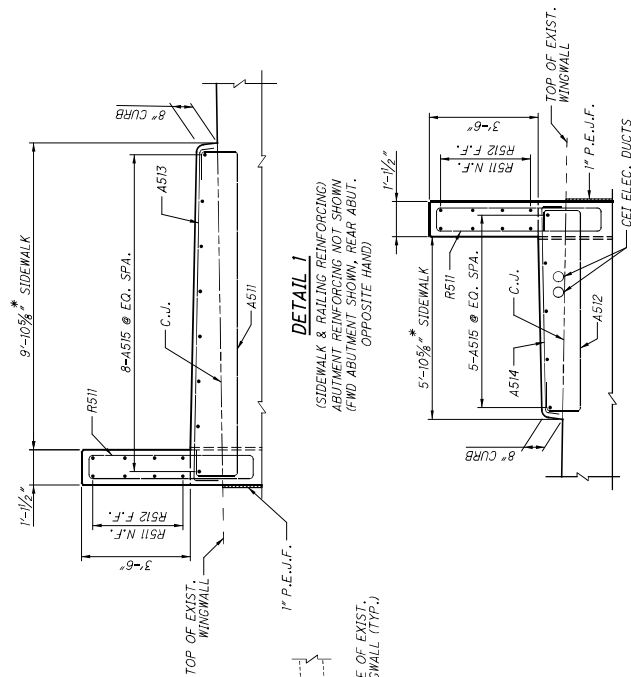






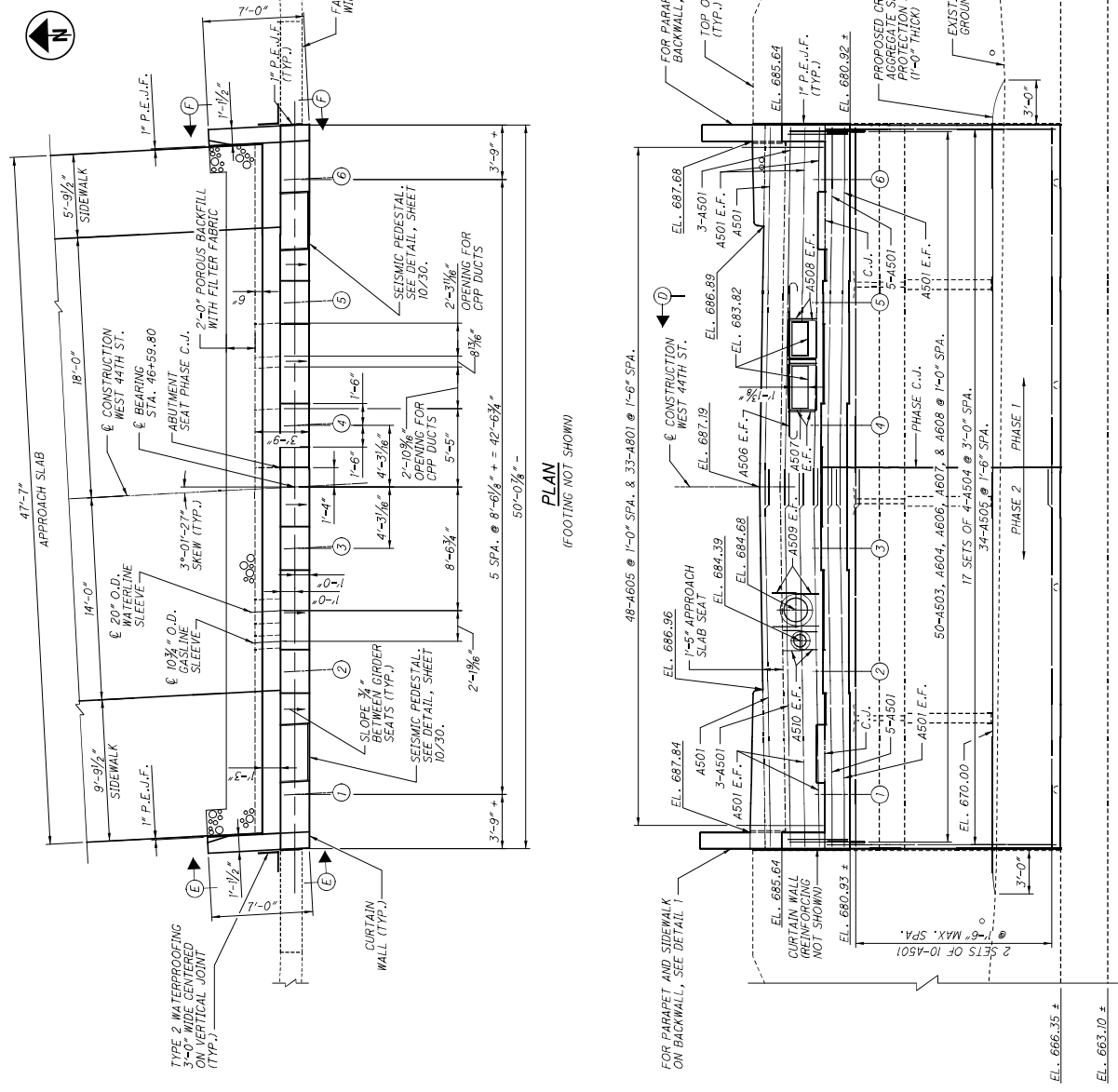
LEGEND:

VIEW C-C



GIRDER SEAT ELEVATIONS					
GIRDER	1	2	3	4	5
ELEVATION	682.67	682.80	682.93	682.93	682.79
					682.65

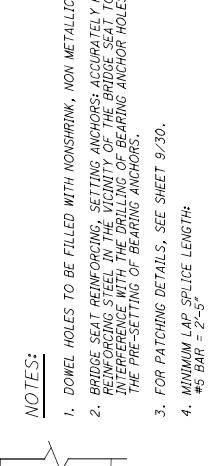
- | <u>NOTES:</u> | |
|----------------------|---|
| 1. | FOR FORWARD |
| 2. | FOR REINFORCING |
| 3. | ALL DOWEL |
| 4. | IN ADDITION TO
AS NECESSARY
REPAIR ALL
ACCORDING |
| | FOR VIEWS |
| 5. | MINIMUM LAYER
#5 BAR = 2 |
| 6. | CONCRETE F
CLASS QC2 |
| 7. | CONCRETE F
CLASS QC2 |



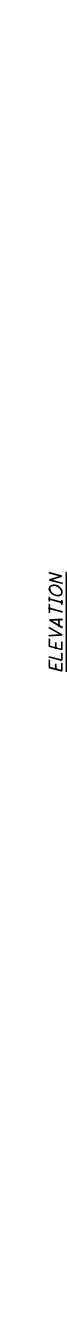


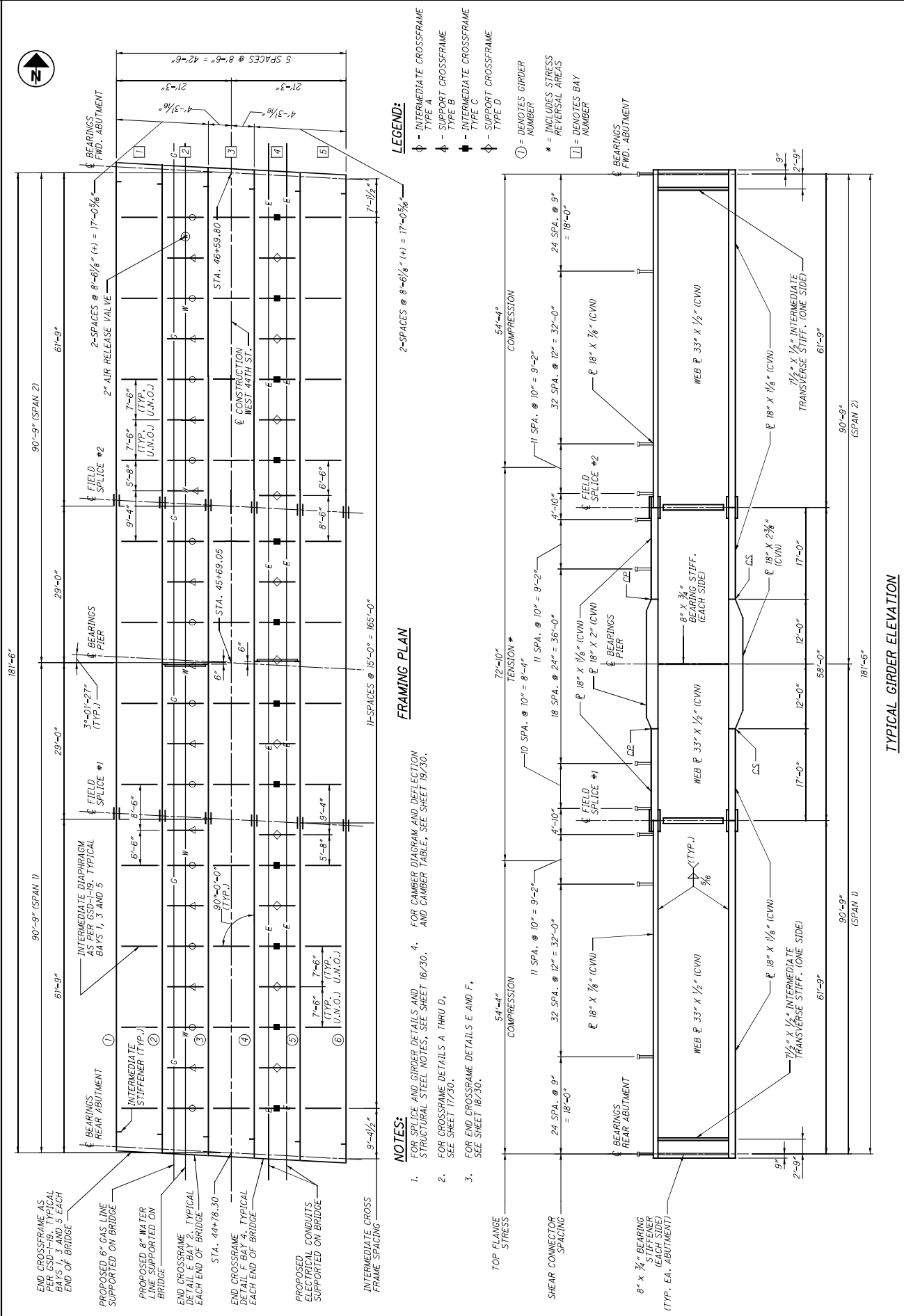
ELEVATIONS						
	F	G	H	J	K	
EAST	680.92±	682.98	685.64	687.68	687.72	
WEST	680.93±	683.00	685.64	687.84	687.88	

* - INCLUDE WITH APPROACH SLAB FOR PAYMENT.
** - AT 7" CONCRETE REPAIR



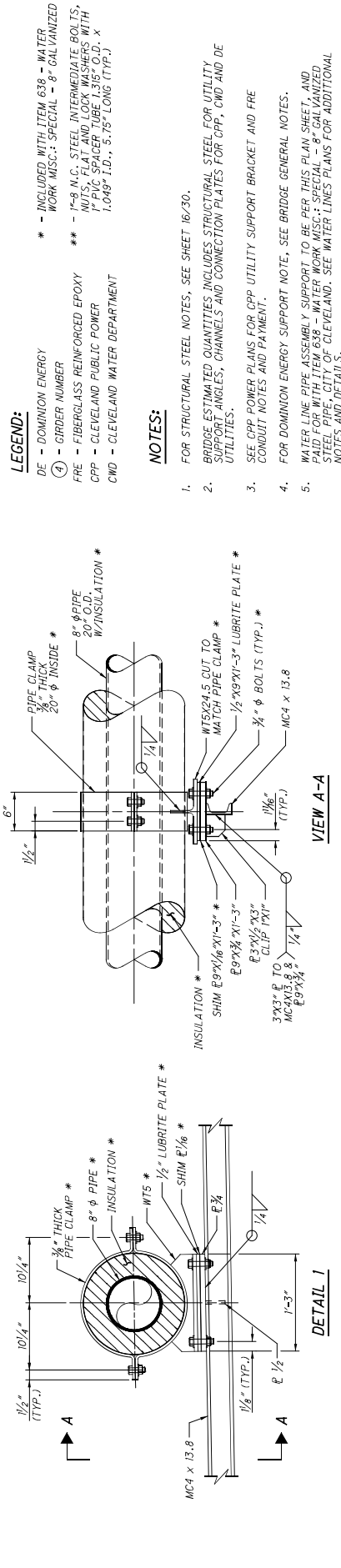
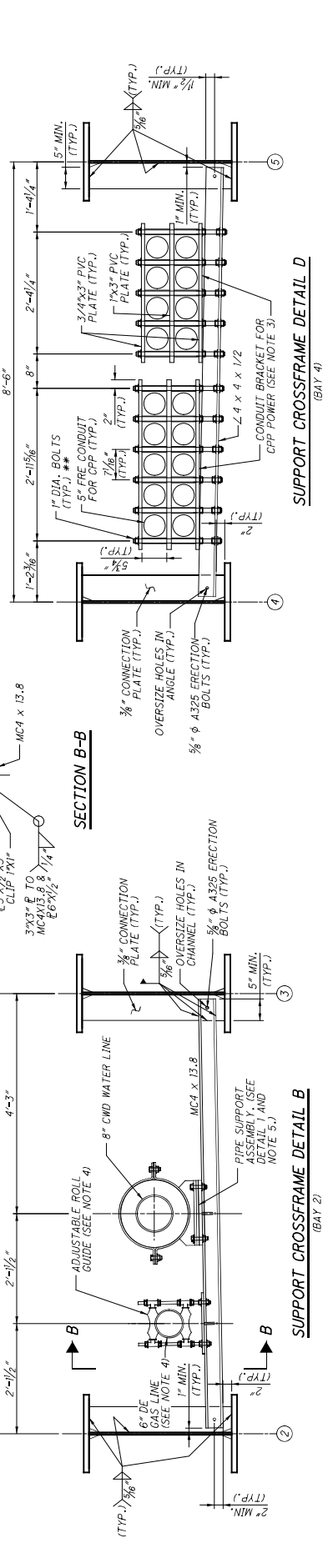
GIRDER SEAT ELEVATIONS					
GIRDER	1	2	3	4	5
ELEVATION	681.67	681.80	681.93	681.92	681.78
					681.64





$$\frac{16}{30}$$

SECTION B-B



LEGEND:

- DE = DOMINION ENERGY
- ④ = GIRDER NUMBER
- FRE = FIBERGLASS REINFORCED EPOXY
- CPP = CLEVELAND PUBLIC POWER
- CND = CLEVELAND WATER DEPARTMENT
- * = INCURRED WITH ITEM 638 - WATER WORK MISC.; SPECIAL - 8" GALVANIZED
- ** = 1'-8" N.C. STEEL INTERMEDIATE BOLTS, 1/2" DIA. NUTS AND WASHERS, 1" P.C. SPACER TUBE 1.315" O.D. X 1.049" I.D., 5.75' LONG (TYP.)

NOTES:

1. FOR STRUCTURAL STEEL NOTES, SEE SHEET 16-30.
2. BRIDGE ESTIMATED QUANTITIES INCLUDES STRUCTURAL STEEL FOR UTILITY SUPPORT, ANGLES, CHANNELS AND CONNECTION PLATES FOR CPP, CND AND DE UTILITIES.
3. SEE CPP POWER PLANS FOR CPP UTILITY SUPPORT BRACKET AND FRE CONDUIT NOTES AND PAYMENT.
4. FOR DOMINION ENERGY SUPPORT NOTE, SEE BRIDGE GENERAL NOTES.
5. WATER LINE PIPE ASSEMBLY SUPPORT TO BE PER THIS PLAN SHEET, AND PAID FOR WITH ITEM 638 - WATER WORK MISC.; SPECIAL - 8" GALVANIZED STEEL C-PILE @ CLEVELAND. SEE WATER LINES PLANS FOR ADDITIONAL NOTES AND DETAILS.

6"

1/2"

8" Ø PIPE

20" O.D. W/ INSULATION

PIPE CLAMP

5/8" Ø INSIDE

20" Ø INSIDE

1/4"

WTS24.5 OUT TO MATCH PIPE CLAMP

1/2" X 9 X 1-3/4" LUBRITE PLATE

3/4" Ø BOLTS (TYP.)

MC4 X 13.8

1 1/8" (TYP.)

3" X 3" Ø TO MC-20 X 3.8 & 5/8" X 3/4"

CLIP 17X1"

Ø 3 1/2" X 1/2" X 3"

Ø 9 X 5/8" X 1-3/4"

SHIM Ø 9 X 1/2" X 1-3/4"

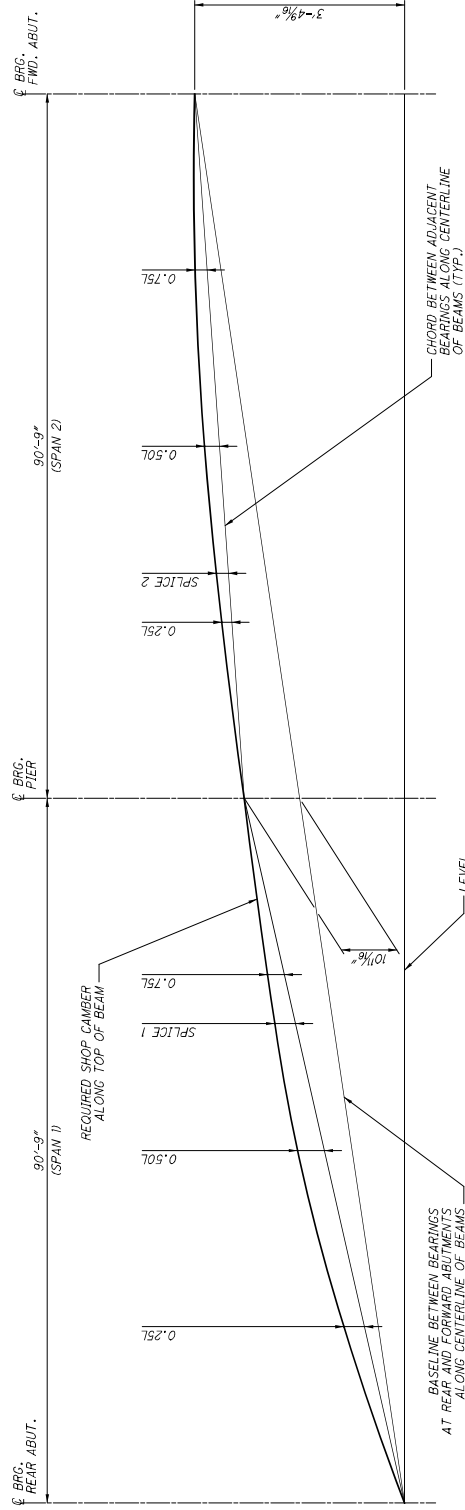
INSULATION

1/4"

VIEW A-A

Technical drawing of a detail of a pipe clamp assembly, labeled "DETAIL 1". The drawing shows a cross-section of a pipe with a diameter of 8" ϕ PIPE. The pipe is surrounded by INSULATION. The assembly is held by a 1/2" THICK PIPE CLAMP. The clamp is mounted on a 1/2" LUBRICATE PLATE. The drawing includes dimensions: 10 1/4" for the overall width, 1 1/8" (TYP.) for the plate thickness, and 13.8" for the distance between the clamp and the plate. A section line A-A is indicated.

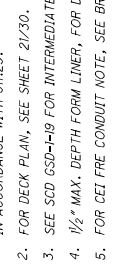


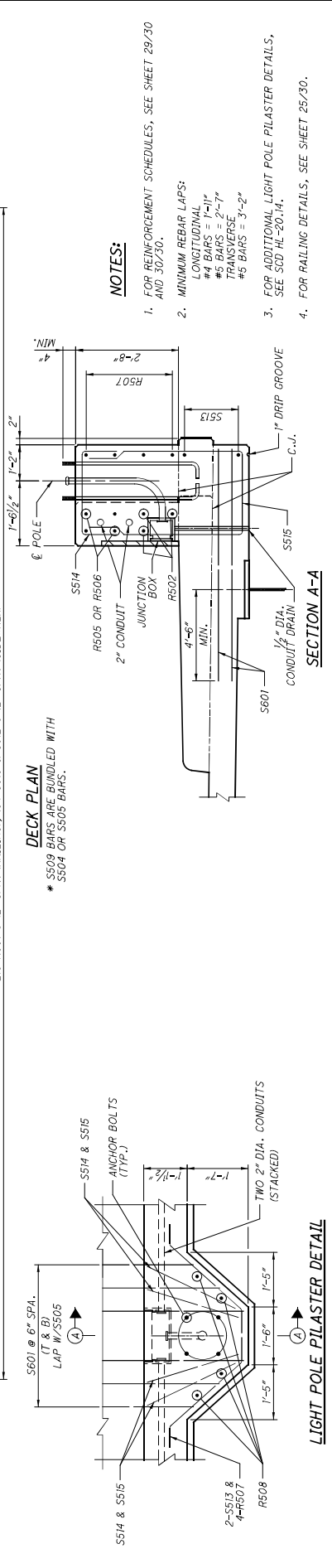


CAMBER DIAGRAM
(TYPICAL ALL GIRDERS)

DEFLECTION AND CAMBER (TYPICAL ALL GIRDERS)									
SPAN 1					SPAN 2				
0.25L	0.50L	SPLICE 1	0.75L	0.50L	0.25L	SPLICE 2	0.50L	0.75L	
1 1/4"	1 1/4"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/8"	1 1/4"	1 1/4"
1 5/8"	1 13/16"	1 1/8"	1 1/8"	1 13/16"	1 1/8"	1 1/8"	1 13/16"	1 5/8"	1 5/8"
2 1/8"	3 1/8"	2 13/16"	2 7/16"	2 13/16"	1 1/8"	1 1/8"	13/16"	7/16"	7/16"
3 15/16"	5 3/16"	4"	3 1/4"	1 15/16"	2 5/16"	2 1/8"	2 5/16"	2 5/16"	2 5/16"

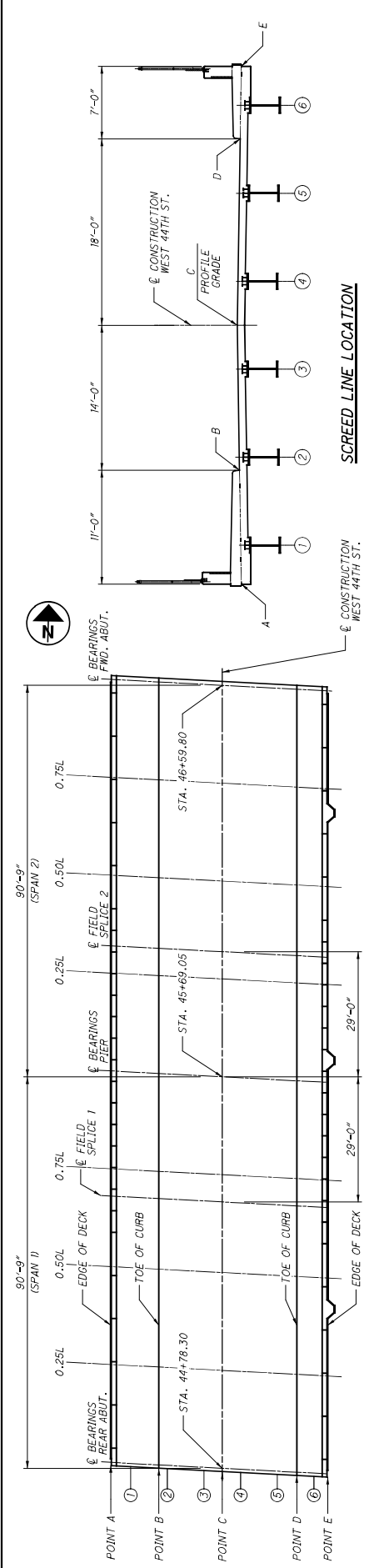
L = SPAN LENGTH
POSITIVE VALUES INDICATE REQUIRED CAMBER IS ABOVE
THE CHORD BETWEEN ADJACENT BEARINGS





1. FOR REINFORCEMENT SCHEDULES, SEE SHEET 29/30 AND 30/30.
2. MINIMUM REBAR LAPS:
LONGITUDINAL:
#4 BARS = 1'-11"
#5 BARS = 2'-7"
TRANSVERSE:
#5 BARS = 3'-2"
3. FOR ADDITIONAL LIGHT POLE PILASTER DETAILS, SEE SCD HL-20.14.
4. FOR RAILING DETAILS, SEE SHEET 29/30.

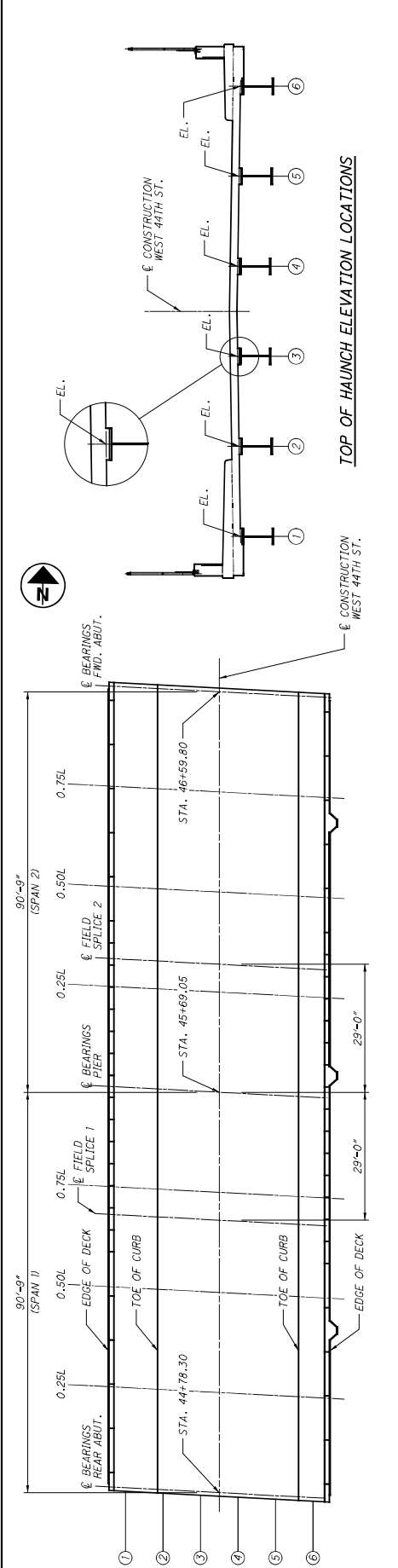
LIGHT POLE PILASTER DETAIL

LOCATION PLAN

SCREED ELEVATIONS											
SPAN NO.	LOCATION	A		B		C (CROWN & PROFILE GRADE)		D		E	
		STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
1	0.00 L	44+79.62	683.45	44+79.04	683.60	44+78.30	683.80	44+77.35	683.48	44+76.98	683.35
	0.25 L	45+02.31	684.40	45+01.73	684.55	45+00.99	684.75	45+00.04	684.43	44+99.67	684.30
	0.50 L	45+25.00	685.14	45+24.41	685.30	45+23.68	685.50	45+22.72	685.19	45+22.35	685.06
	SPLICE	45+41.37	685.51	45+40.79	685.68	45+40.05	685.88	45+39.10	685.57	45+38.73	685.45
	0.75 L	45+47.68	685.63	45+47.10	685.79	45+46.36	686.00	45+45.41	685.69	45+45.04	685.57
2	0.00 L	45+70.37	686.00	45+69.79	686.17	45+69.05	686.38	45+68.10	686.08	45+67.73	685.96
	0.25 L	45+93.06	686.35	45+92.48	686.52	45+91.74	686.73	45+90.79	686.44	45+90.42	686.32
	SPLICE	45+99.37	686.43	45+98.79	686.60	45+98.05	686.82	45+97.10	686.52	45+96.73	686.41
	0.50 L	46+15.75	686.61	46+15.16	686.78	46+14.43	687.00	46+13.47	686.71	46+13.10	686.59
	0.75 L	46+38.43	686.76	46+37.85	686.93	46+37.11	687.15	46+36.16	686.86	46+35.79	686.74
1.00L	46+61.12	686.79	46+60.54	686.96	46+59.80	687.18	46+58.85	686.89	46+58.48	686.77	

NOTES:

1. SCRED ELEVATIONS:
SCRED ELEVATIONS SHOWN REPRESENT THE THEORETICAL
DECK SURFACE LOCATION PRIOR TO DEFLECTIONS CAUSED
BY DECK PLACEMENT AND OTHER ANTICIPATED DEAD LOADS.
2. L = SPAN LENGTH



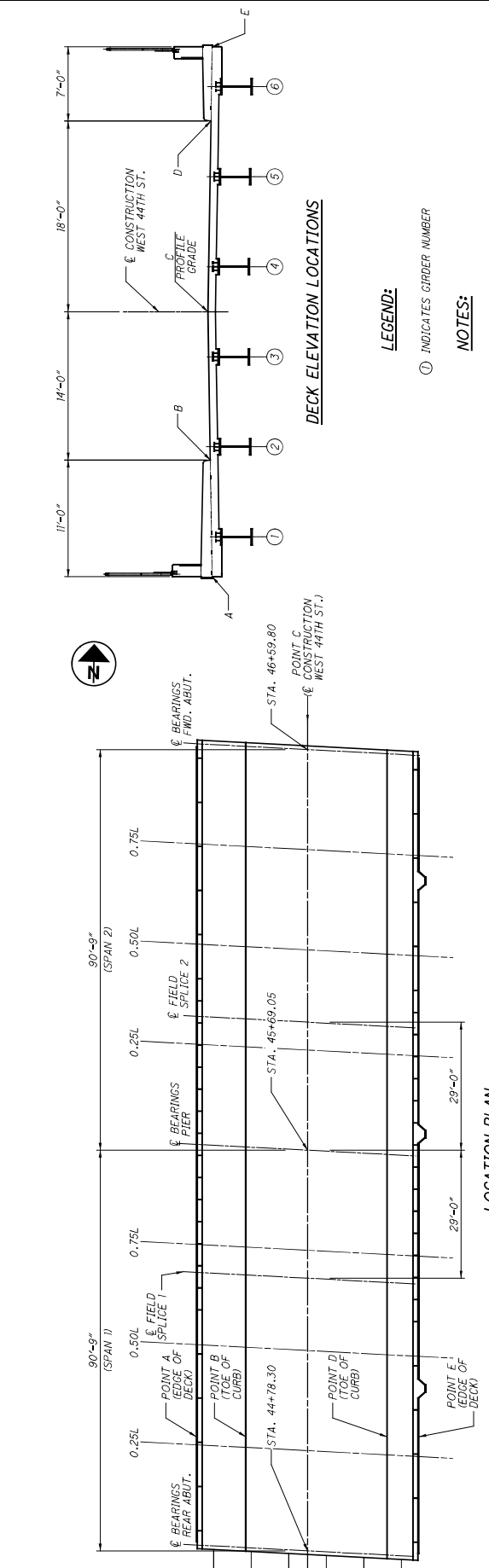
LOCATION PLAN

TOP OF HAUNCH ELEVATIONS											
GIRDER 1			GIRDER 2			GIRDER 3			GIRDER 4		
SPAN NO.	LOCATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
1	0.00 L	44+79.42	682.79	44+78.97	682.91	44+78.52	683.03	44+78.08	683.01	44+77.63	682.86
	0.25 L	45+02.11	683.74	45+01.66	683.86	45+01.21	683.98	45+00.76	683.97	45+00.31	683.82
	0.50 L	45+24.80	684.49	45+24.35	684.61	45+23.90	684.73	45+23.45	684.72	45+23.00	684.57
	SPLICE	45+41.17	684.86	45+40.72	684.99	45+40.27	685.11	45+39.83	685.10	45+39.38	684.95
	0.75 L	45+47.49	684.98	45+47.04	685.10	45+46.59	685.23	45+46.14	685.22	45+45.69	685.07
2	0.00 L	45+70.17	685.35	45+69.72	685.48	45+69.27	685.61	45+68.83	685.60	45+68.38	685.46
	0.25 L	45+92.86	685.70	45+92.41	685.83	45+91.96	685.96	45+91.51	685.96	45+91.06	685.82
	SPLICE	45+99.17	685.78	45+98.72	685.91	45+98.27	686.05	45+97.83	686.04	45+97.38	685.90
	0.50 L	46+15.55	685.96	46+15.10	686.09	46+14.65	686.23	46+14.20	686.22	46+13.75	686.08
	0.75 L	46+38.24	686.11	46+37.79	686.25	46+37.34	686.38	46+36.89	686.37	46+36.44	686.24
	1.00L	46+60.92	686.14	46+60.47	686.27	46+60.02	686.41	46+59.58	686.40	46+59.13	686.26

NOTES:

1. TOP OF HAUNCH ELEVATIONS:
TOP OF HAUNCH ELEVATIONS SHOWN REPRESENT THE THEORETICAL
LOCATION OF THE BOTTOM OF THE DECK ABOVE THE GIRDER HAUNCH
PRIOR TO DEFLECTIONS CAUSED BY DECK PLACEMENT AND OTHER
ANTICIPATED DEAD LOADS.

FINAL DECK SURFACE ELEVATIONS																							
SPAN NO.	LOCATION	A		GIRDER 1		B		GIRDER 2		GIRDER 3		C (CROWN & PROFILE GRADE)		GIRDER 4		GIRDER 5		D		GIRDER 6		E	
		STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
1	0.00 L	44+79.62	683.45	44+79.42	683.50	44+79.04	683.60	44+78.97	683.62	44+78.52	683.74	44+78.30	683.80	44+78.08	683.72	44+77.63	683.57	44+77.35	683.48	44+77.18	683.42	44+76.98	683.35
	0.25 L	45+02.31	684.26	45+02.11	684.32	45+01.73	684.42	45+01.66	684.44	45+01.21	684.56	45+00.99	684.62	45+00.76	684.54	45+00.31	684.39	45+00.04	684.29	44+99.86	684.24	44+99.67	684.17
	0.50 L	45+25.00	684.99	45+24.80	685.04	45+24.41	685.15	45+24.35	685.17	45+23.90	685.29	45+23.68	685.35	45+23.45	685.28	45+23.00	685.13	45+22.72	685.04	45+22.55	684.98	45+22.35	684.91
	SPLICE	45+41.37	685.42	45+41.17	685.48	45+40.79	685.59	45+40.72	685.60	45+40.27	685.73	45+40.05	685.79	45+39.83	685.72	45+39.38	685.57	45+39.10	685.48	45+38.93	685.42	45+38.73	685.36
	0.75 L	45+47.68	685.57	45+47.49	685.63	45+47.10	685.73	45+47.04	685.75	45+46.59	685.88	45+46.36	685.94	45+46.14	685.87	45+45.69	685.72	45+45.41	685.63	45+45.24	685.57	45+45.04	685.51
2	0.00 L	45+70.37	686.00	45+70.17	686.06	45+69.79	686.17	45+69.72	686.19	45+69.27	686.32	45+69.05	686.38	45+68.83	686.31	45+68.38	686.17	45+68.10	686.08	45+67.93	686.02	45+67.73	685.96
	0.25 L	45+93.06	686.29	45+92.86	686.35	45+92.48	686.46	45+92.41	686.48	45+91.96	686.61	45+91.74	686.67	45+91.51	686.60	45+91.06	686.46	45+90.79	686.38	45+90.61	686.32	45+90.42	686.26
	SPLICE	45+99.37	686.34	45+99.17	686.40	45+98.79	686.51	45+98.72	686.53	45+98.27	686.66	45+98.05	686.73	45+97.83	686.66	45+97.38	686.52	45+97.10	686.43	45+96.93	686.38	45+96.73	686.32
	0.50 L	46+15.75	686.46	46+15.55	686.52	46+15.16	686.63	46+15.10	686.65	46+14.65	686.78	46+14.43	686.85	46+14.20	686.78	46+13.75	686.64	46+13.47	686.56	46+13.30	686.50	46+13.10	686.44
	0.75 L	46+38.43	686.63	46+38.24	686.68	46+37.85	686.80	46+37.79	686.82	46+37.34	686.95	46+37.11	687.02	46+36.89	686.95	46+36.44	686.81	46+36.16	686.72	46+35.99	686.67	46+35.79	686.61
	1.00L	46+61.12	686.79	46+60.92	686.85	46+60.54	686.96	46+60.47	686.98	46+60.02	687.12	46+59.80	687.18	46+59.58	687.11	46+59.13	686.97	46+58.85	686.89	46+58.68	686.83	46+58.48	686.77



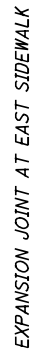
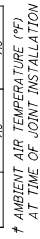
LEGEND:
① INDICATES GIRDER NUMBER

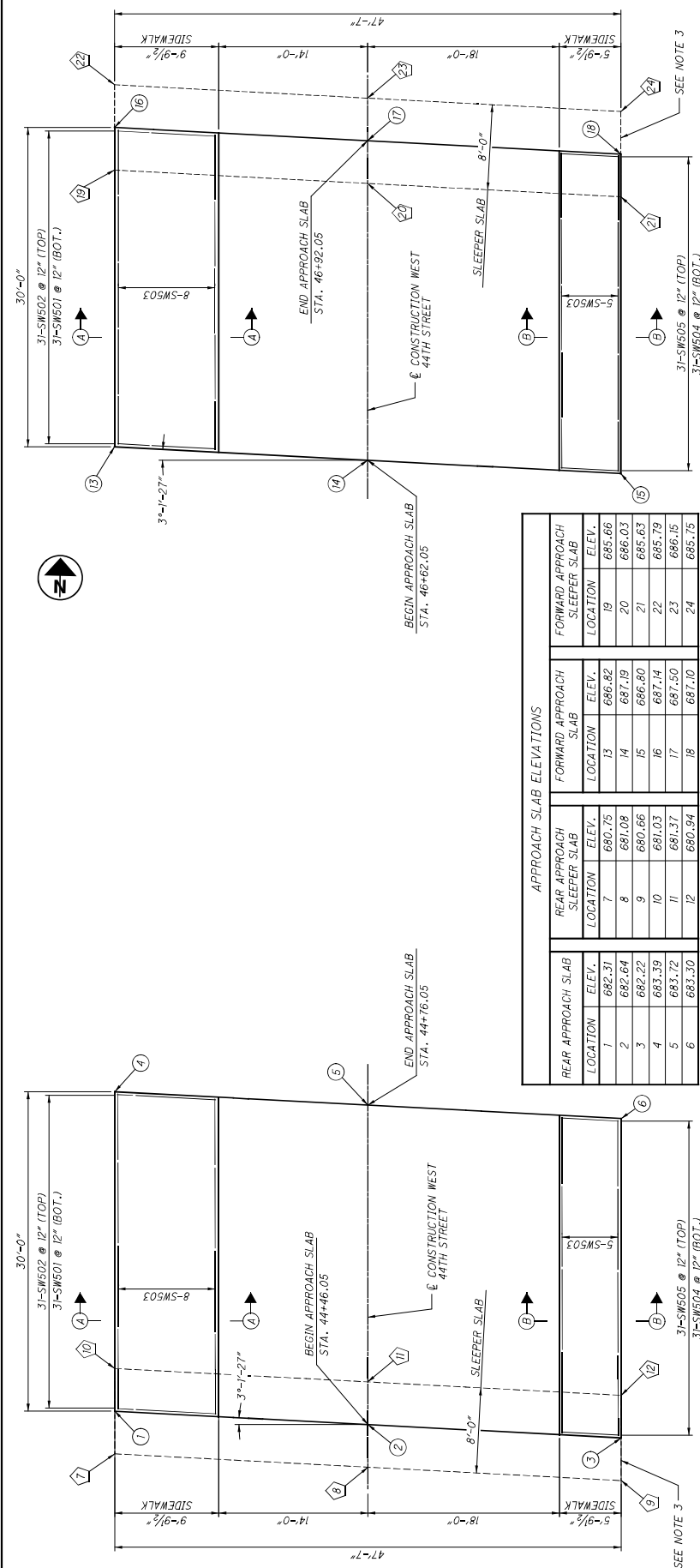
NOTES:
1. FINAL DECK SURFACE ELEVATIONS SHOWN REPRESENT THE DECK SURFACE LOCATION AFTER ALL ANTICIPATED DEAD LOAD DEFLECTIONS HAVE OCCURRED.



1. FOR ADDITIONAL NOTES AND RAILING DETAILS, SEE STANDARD BRIDGE DRAWING BR-2-15.
2. SEE SHEET 21/30 FOR DECK REINFORCING AND DEFLECTION JOINT SPACING.







FORWARD APPROACH SLAB PLAN

REAR APPROACH SLAB PLAN

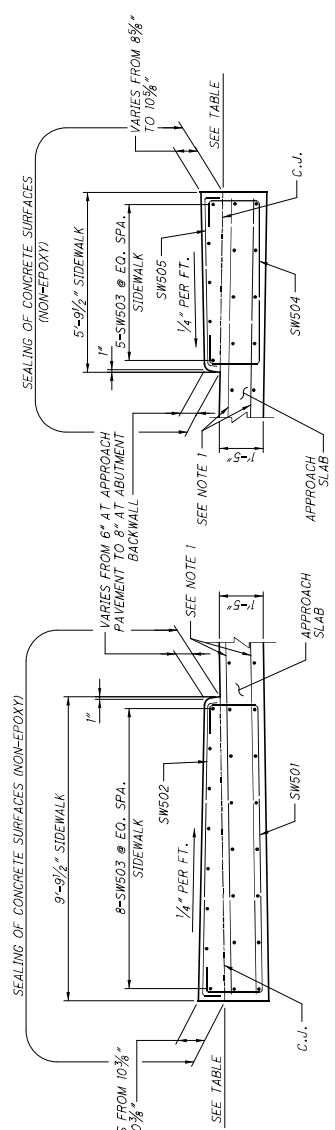
APPROACH SLAB ELEVATIONS									
REAR APPROACH SLAB		REAR APPROACH SLEEPER SLAB		FORWARD APPROACH SLAB		FORWARD APPROACH SLEEPER SLAB			
LOCATION	ELEV.	LOCATION	ELEV.	LOCATION	ELEV.	LOCATION	ELEV.	LOCATION	ELEV.
1	682.31	7	680.75	13	686.82	19	685.66		
2	682.64	8	681.08	14	687.19	20	686.03		
3	682.22	9	680.66	15	686.80	21	685.63		
4	683.39	10	681.03	16	687.14	22	685.79		
5	683.72	11	681.37	17	687.50	23	686.15		
6	683.30	12	680.94	18	687.10	24	685.75		

LEGEND:

- ① - INDICATES ELEVATION AT TOP OF APPROACH SLAB
⑦ - INDICATES ELEVATION AT TOP OF SLEEPER SLAB

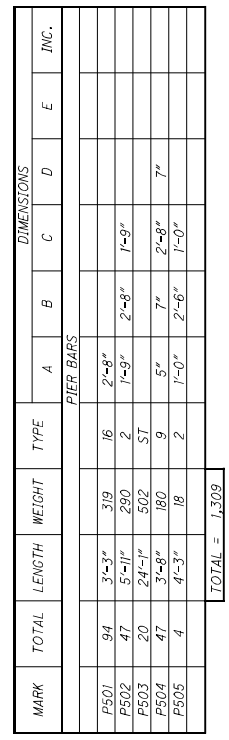
NOTES:

1. FOR ADDITIONAL APPROACH SLAB REINFORCEMENT AND DETAILS, SEE 0207 STANDARD BRIDGE DRAWING AS-115.
2. MIN. LAP LENGTH:
#5 BAR = 2'-5"
3. SEE STD. DWG. AS-2-15, APPROACH SLAB INSTALLATION (TYPE A), FOR DETAILS.
4. CONCRETE FOR SIDEWALKS ON APPROACH SLABS SHALL BE INCLUDED WITH ITEM 511. GLASS 002 CONCRETE WITH 02-04-A SIDEWALK REINFORCEMENT FOR SIDEWALKS ON APPROACH SLABS SHALL BE INCLUDED WITH ITEM 509, EPOXY COATED REINFORCING STEEL.



SECTION A-A

SECTION B-B



MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS							
	REAR	FORWARD				TOTAL	A	B	C	D	E	R	INC.
ABUTMENT BARS													
A501	30	50	80	2,176	ST								
A502	50		26'-1"	322	2	1'-6"	3'-5"	1'-6"					
A503	50	50	6'-2"	313	2	1'-6"	3'-5"	1'-6"					
A504	68	68	1'-8"	118	1	9"	1'-0"	1'-5"					
A505	34	34	16'-2"	573	ST								
A506	2	4	12'-1"	50	17	10'-11"	3'-2"	2'-2"					
A507	4	4	8	7'-3"	60	2	2'-2"	2'-2"					
A508	4	4	8	6'-3"	56	2	2'-2"	2'-8"					
A509	4	4	8	8'-6"	71	24	2'-0"	2'-8"			12"		
A510	4	4	8	5'-8"	47	24	1'-3"	1'-10"			8"		
A511	2	2	4	14'-1"	59	5	10'-7"	1'-2"			9"		
A512	2	2	4	9'-1"	38	5	6'-1"	1'-2"			9"		
A513	2	2	4	11'-7"	48	10	1"	5"			10'-7"		
A514	2	2	4	7'-6"	31	10	1"	5"			6'-7"		
A515	13	13	26	27	ST								
A516	2 SER. OF	2 SER. OF	3' TO	60	ST								1'-2 1/2"
A517	4	4	8	39	ST								
A601	50		50	376	1	1'-0"	4'-2"						
A602	50		50	401	ST								
A603	50		50	263	1	1'-0"	2'-8"						
A604	50	50	100	5'-9"	864	2	2'-4"	1'-5"			2'-4"		
A605	48	48	96	8'-1"	1,166	2	3'-9"	11"			3'-9"		
A606	50	50	3'-5"	257	1	1'-0"	2'-7"						
A607	50	50	5'-3"	394	ST								
A608	50	50	4'-11"	369	1	1'-0"	4'-1"						
A609	16	16	32	8'-0"	385	33	1'-8"	1'-9"					
A610	4	4	8	5'-1"	61	1	1'-9"	3'-6"					
A611	8	8	8'-9"	105	2	4'-2"	9"	4'-2"					
A612	4	4	8'-2"	49	19	6'-7"	1'-2"	1'-2"					
A613	2	2	8'-5"	26	2	4'-0"	9"	4'-0"					
A614	2	2	6'-3"	19	2	2'-11"	9"	2'-11"					
A615	8	8	9'-3"	111	2	4'-5"	9"	4'-5"					
A616	4	4	8'-8"	52	19	7'-3"	1'-0"	1'-1"					
A617	2	2	7'-11"	24	2	3'-9"	9"	3'-9"					
A618	2	2	5'-11"	18	2	2'-9"	9"	2'-9"					
A701	10	10	20	208	1	1'-9"	3'-6"						
A801	33	33	66	5'-1"	896	18	2'-10"	1'-0"					
A901	8	8	16	3'-5"	186	ST							
				TOTAL = 10,317									

1. **BAR SIZE:** THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK DIGITS WHERE FOUR DIGITS ARE USED. THESE DIGITS ARE USED TO IDENTIFY THE BAR SIZE, WHERE TWO DIGITS ARE USED, THE BAR SIZE NUMBER IS ASSUMED TO BE #4. FOR EXAMPLE, AN A601 IS A #6 BAR, BAR DIMENSIONS SHOWN ARE OUT TO OUT DIMENSIONS. THE BAR SIZE NUMBER IS NOT INDICATED IN THE REINFORCEMENT SCHEDULE. OTHERWISE NOTED, S.D. IS WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BEND AT THE END OF THE BAR.
2. **ALL REINFORCING STEEL SHALL BE EPOXY COATED.**

MARK	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS					
					A	B	C	D	E	INC.
					SUPERSTRUCTURE BARS					
S401	366	30'-0"	7,335	ST						
S402	61	14'-10"	604	ST						
S501	180	31'-5"	5,898	ST						
S502	396	30'-0"	12,391	ST						
S503	66	18'-4"	1,262	ST						
S504	367	30'-7"	11,707	16	30'-0"					
S505	367	23'-5"	8,963	16	22'-10"					
S506	367	24'-5"	9,346	ST						
S507	367	28'-6"	10,909	ST						
S508	184	11'-9"	2,255	10	1"	5"	10'-9"	9"		
S509	734	8'-8"	6,635	16	8'-1"					
S510	184	7'-8"	1,471	10	1"	5"	6'-9"	8"		
S511	184	13'-7"	2,607	5	10'-7"	11"	1'-1"	9"		
S512	184	9'-6"	1,823	5	6'-7"	1'-0"	11"	9"		
S513	6	7'-5"	46	21	1'-4"	1'-10"	6"	1'-10"		
S514	12	4'-3"	53	2	1'-0"	2'-6"	1'-0"			
S515	12	10'-3"	128	2	4'-0"	2'-6"	4'-0"			
S601	36	8'-1"	437	ST						
			TOTAL = 83,870							

MARK	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS				
					A	B	C	D	INC.
APPROACH SLAB SIDEWALK BARS									
SW501	62	13'-10"	895	5	9'-4"	1'-7"	1'-11"	9"	
SW502	62	10'-0"	647	10	1"	3"	9'-4"	7"	
SW503	26	29'-8"	805	ST					
SW504	62	9'-9"	630	5	5'-5"	1'-7"	1'-9"	9"	
SW505	62	5'-11"	383	10	1"	3"	5'-5"	5"	
			TOTAL = 3,360						

MARK	TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS					
					A	B	C	D	E	INC.
					RAILING BARS					
R501	420	9'-2"	4,016	32	1'-6"	8"	3'-1"	2'-11"		
R502	48	30'-0"	1,502	ST						
R503	8	17'-4"	145	ST						
R504	16	3'-9"	63	ST						
R505	80	9'-8"	807	ST						
R506	120	4'-8"	584	ST						
R507	12	7'-5"	93	21	1'-4"	1'-10"	6"	1'-10"		
R508	12	4'-1"	51	ST						
R509	SER. OF 4	10'-6"	177	2	5'-2"	5"	5'-2"			0'-1"
R510	32	10'-10"	362	2	5'-2"	8"	5'-2"			
R511	16	4'-8"	78	ST		9"	5'-2"			
R512	16	4'-7"	76	19	3'-4"	1'-3"	5"			
			TOTAL = 7,954							

NOTE:

1. FOR REINFORCING NOTES AND BAR TYPES, SEE SHEET 29/30

30 / 30



CUY-090-13.45
PID No. 105792

REINFORCING STEEL LIST
BRIDGE NO. CUY-090-13.45
WEST 44TH STREET OVER I-90

DESIGNED
LAW
CHECKED
TVB

DRAWN
KRM
REVISED
JRH

STRUCTURE FILE NUMBER
1807811

DATE
7/17/2019

DESIGN AGENCY
ms consultants, inc.
4608 St. Clair Avenue
Cleveland, Ohio 44131-2006