

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	1
		ILLINOIS	CONTRACT NO. 62K97	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

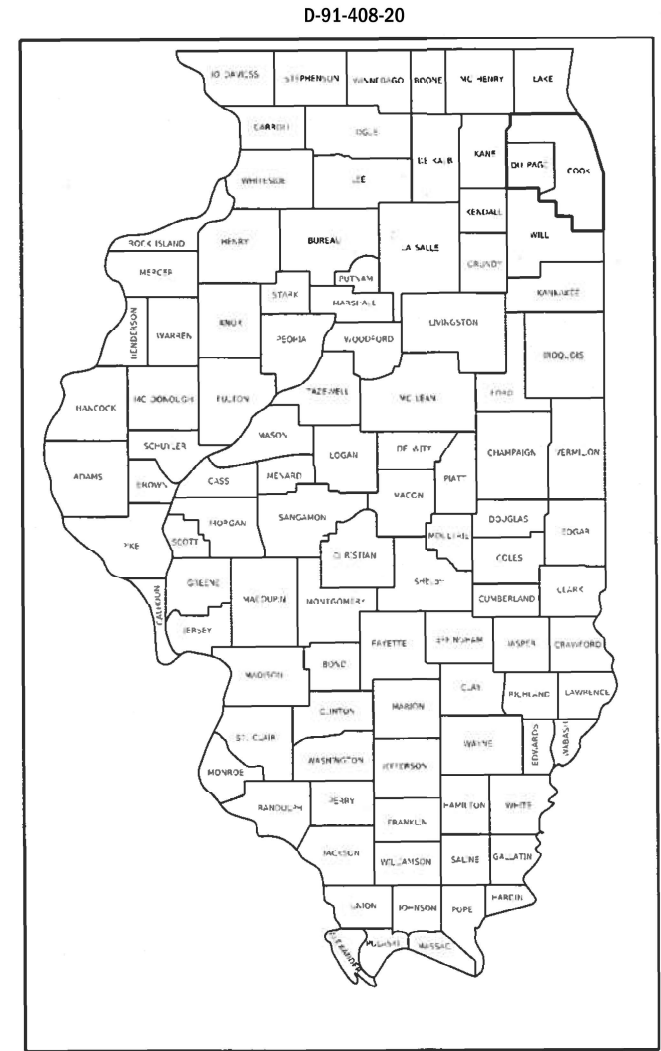
**PROPOSED
HIGHWAY PLANS**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

VARIOUS ROUTES
VARIOUS LOCATIONS – DISTRICT WIDE
SECTION: 2020-026-BR
PROJECT: STP-TX5N(941)
**BRIDGE DECK SEALING / DRAINAGE SYSTEM REPAIRS
COOK AND DUPAGE COUNTY**

C-91-215-20

FOR LOCATION MAPS, SEE SHEET NO. 5 & 6



J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811

PROJECT MANAGER: J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62K97

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13 2020
Anthony J. D'Amico REGIONAL ENGINEER
May 8, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2020
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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OF THE STATE OF ILLINOIS

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STATE STANDARDS

701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMPS FOR SPEEDS >=45 MPH
 701427-05 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS <= 40 MPH
 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
 701446-09 TWO LANE CLOSURE FREEWAY/EXPRESSWAY
 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
 701901-08 TRAFFIC CONTROL DEVICES

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES/CITY OF ITASCA, MELROSE PARK, SCHILLER PARK, AND FRANKLIN PARK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4151 FOR EXPRESSWAYS A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL REQUEST AND GAIN APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC OPERATIONS ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES AND 7 DAYS IN ADVANCE OF ALL PERMANENT AND WEEKEND CLOSURES ON ALL FREEWAYS AND/OR EXPRESSWAYS IN DISTRICT ONE. THIS ADVANCE NOTIFICATION IS CALCULATED BASED ON WORKWEEK OF MONDAY THROUGH FRIDAY AND SHALL NOT INCLUDE WEEKENDS AND HOLIDAYS.
- THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF MAINTENANCE.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE THAT NO DEBRIS WILL ENDANGER OR INTERFERE WITH TRAFFIC ON THE ROADWAY BENEATH THE BRIDGE ACCORDING TO ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPROPRIATE PAY ITEM INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- EXISTING PAVEMENT MARKINGS SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT, TO PREVENT THE MATERIAL FROM BEING APPLIED TO THE MARKINGS AND TO PROTECT THE REFLECTIVE PROPERTIES OF THE MARKINGS. THE TEMPORARY COVERING MATERIAL USED SHALL BE SUCH THAT IT WILL NOT AFFECT THE MARKING'S REFLECTIVITY WHEN REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TO TRAFFIC. COST INCLUDED WITH CONCRETE SEALER.

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REV-SEP

USER NAME = diazia DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES				VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	VAR.	2020-026-BR	VARIOUS
						ILLINOIS		FED. AID PROJECT			
						CONTRACT NO. 62K97					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK 0047	80% FED 20% STATE DUPAGE 0047			
50102400	CONCRETE REMOVAL	CU YD	1	1				
50104000	BRIDGE RAIL REMOVAL	FOOT	79	79				
50300225	CONCRETE STRUCTURES	CU YD	1	1				
50901730	BRIDGE FENCE RAILING	FOOT	79	79				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3			
67100100	MOBILIZATION	L SUM	1	0.5	0.5			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1		1			
X0900022	BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	117	117				
X5870015	BRIDGE DECK CONCRETE SEALER	SO FT	423130	234851	188279			
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1		1			
Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1	0.7	0.3			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		80% FED 20% STATE COOK 0047	80% FED 20% STATE DUPAGE 0047			

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LOCATION NO.	STRUCTURE NUMBER	COUNTY	BRIDGE DECK CONCRETE SEALER (SQ.FT.)	TRAFFIC CONTROL AND PROTECTION, STANDARD			NIGHTTIME WORK ZONE LIGHTING (L. SUM)	BRIDGE DRAINAGE SYSTEM REPAIRS (FOOT)	CLEANING DRAINAGE SYSTEM (L. SUM)	BRIDGE FENCE RAILING (FOOT)	BRIDGE RAIL REMOVAL (FOOT)	CONCRETE STRUCTURES (CU. YD.)	CONCRETE REMOVAL (CU. YD.)
				701601	701801	EXPRESSWAY							
1	016-0337	Cook	102,170	X	X			42	0.3				
2	016-1011	Cook		X	X			72	0.2				
3	016-2815	Cook	132,681	X	X			3	0.2	79	79	1	1
4	022-0534	Dupage	114,871			X	X		0.2				
5	022-0549	Dupage	6,999			X	X						
6	022-0556	Dupage	5,668			X	X						
7	022-0557	Dupage	60,740			X	X		0.1				

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

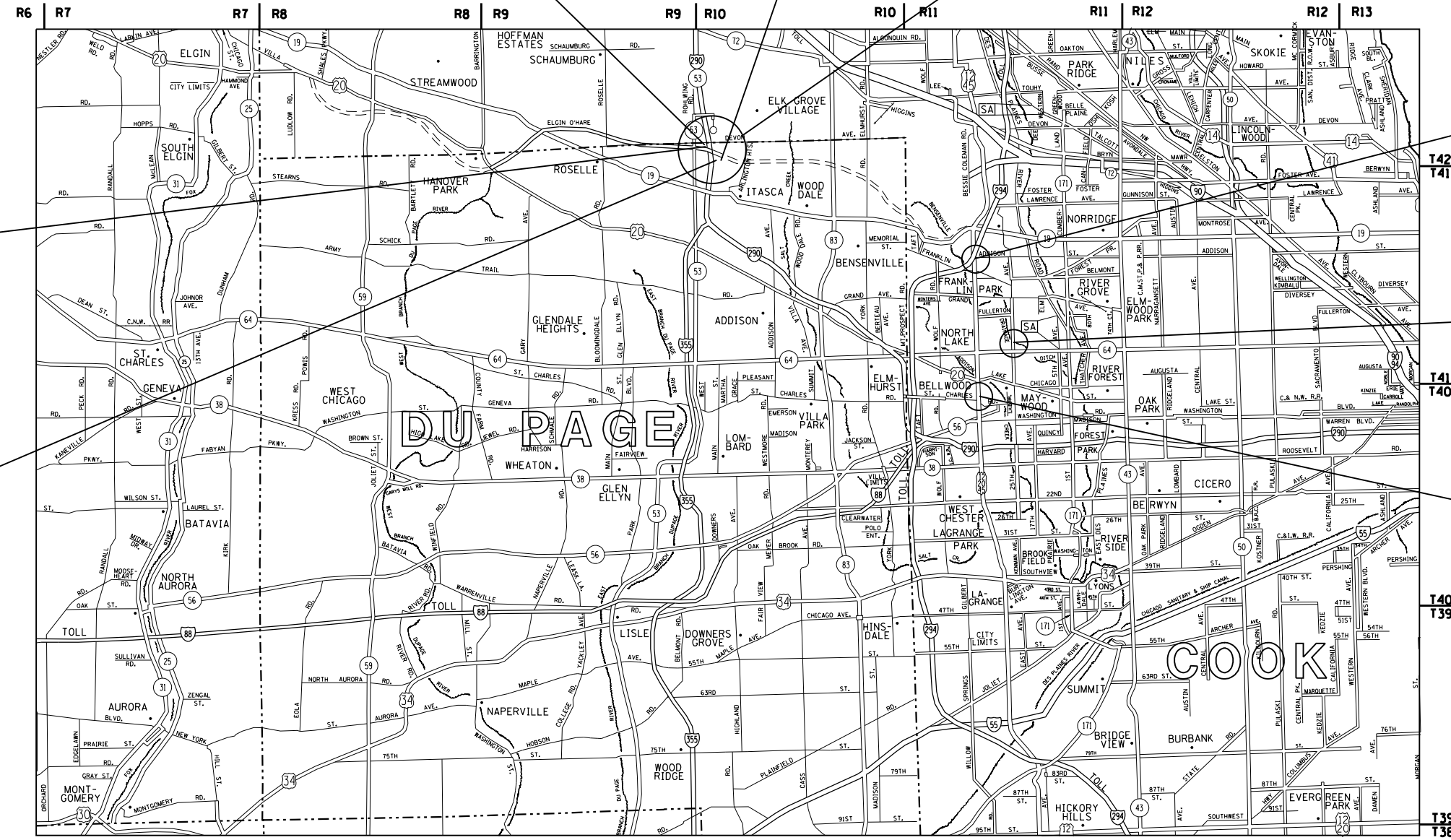
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SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	4
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

LOCATION OF PROJECT:
 6. I-290 EB TO IL 390 EB
 VILLAGE OF ITASCA
 STRUCTURE NO. 022-0556
 ADT = 4,000 (2018)
 POSTED SPEED LIMIT = 35 MPH

LOCATION OF PROJECT:
 5. I-290 WB TO IL 390 EB
 VILLAGE ITASCA
 STRUCTURE NO. 022-0549
 ADT = 7,400 (2018)
 POSTED SPEED LIMIT = 45 MPH

SEE SHEET 6
 FOR DETAILED LOCATION



LOCATION OF PROJECT:
 7. I-290 EB TO IL 390 EB
 VILLAGE OF ITASCA
 STRUCTURE NO. 022-0557
 ADT = 4,000 (2018)
 POSTED SPEED LIMIT = 35 MPH

LOCATION OF PROJECT:
 4. I-290 WB TO IL 390 WB
 VILLAGE OF ITASCA
 STRUCTURE NO. 022-0534
 ADT = 17,900 (2018)
 POSTED SPEED LIMIT = 35 MPH

LOCATION OF PROJECT:
 3. US 12/45 (MANNHEIM RD)
 OVER METRA, CP & RDS RR
 VILLAGE SCHILLER PARK
 STRUCTURE NO. 016-2815
 ADT = 53,700 (2019)
 POSTED SPEED LIMIT = 40 MPH

LOCATION OF PROJECT:
 2. 25TH AVENUE OVER IHB RR
 (NORTH OF IL 64)
 VILLAGE MELROSE PARK
 STRUCTURE NO. 016-1011
 ADT = 17,900 (2018)
 POSTED SPEED LIMIT = 35 MPH

LOCATION OF PROJECT:
 1. US 12/20/45 (MANNHEIM RD)
 OVER UP RR
 VILLAGE MELROSE PARK
 STRUCTURE NO. 016-0337
 ADT = 37,900 (2018)
 POSTED SPEED LIMIT = 30 MPH

PROVISON, LEYDEN, AND ADDISON TOWNSHIPS

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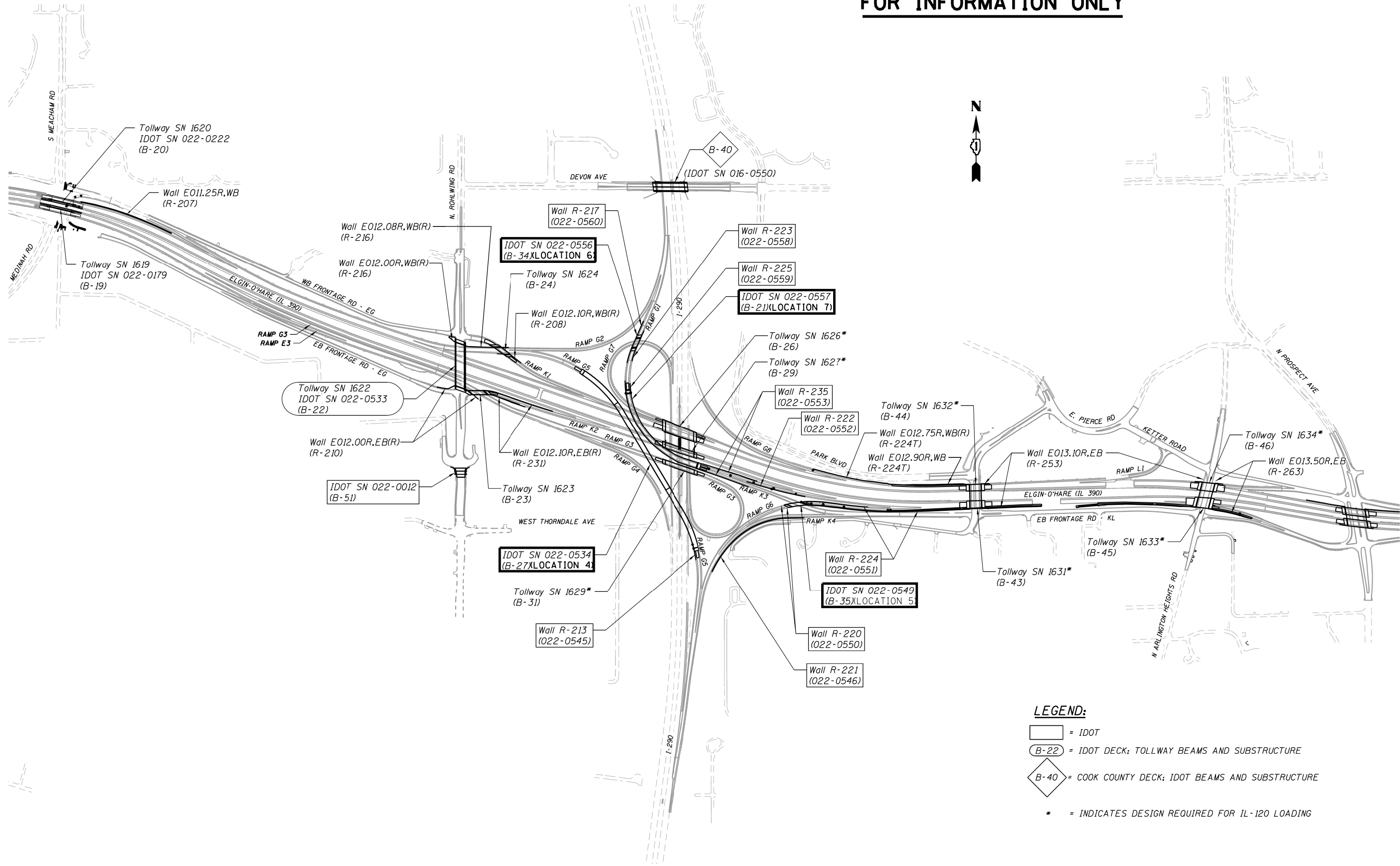
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	5
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



LEGEND:

- = IDOT
- = IDOT DECK; TOLLWAY BEAMS AND SUBSTRUCTURE
- = COOK COUNTY DECK; IDOT BEAMS AND SUBSTRUCTURE
- * = INDICATES DESIGN REQUIRED FOR IL-120 LOADING

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 SHEET: 2 OF 2
 DATE: 3/25/2020

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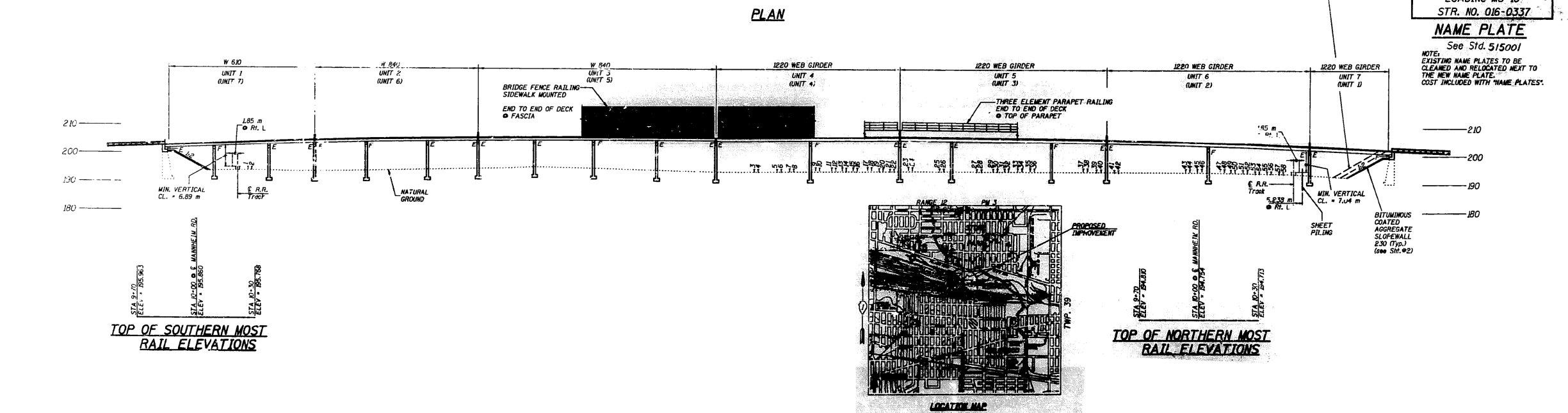
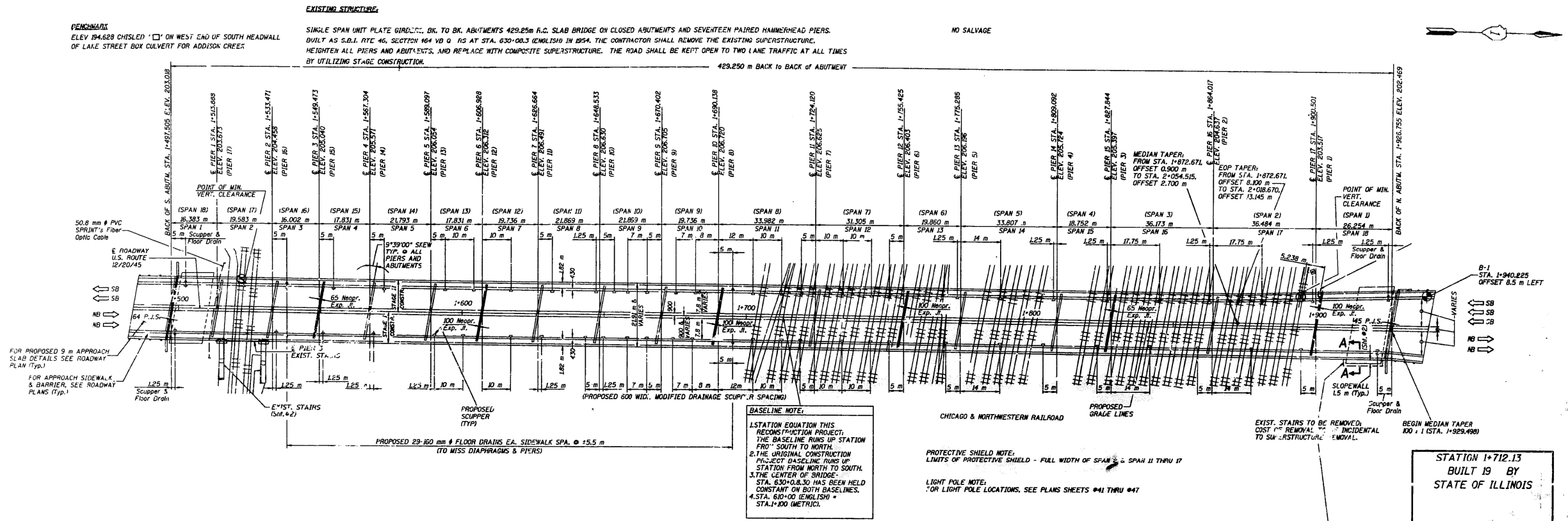
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SN 022-0549; SN 022-0556; SN 022-0557; SN 022-0534			
LOCATION MAP			
SCALE:	SHEET 2	OF 2 SHEETS	STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

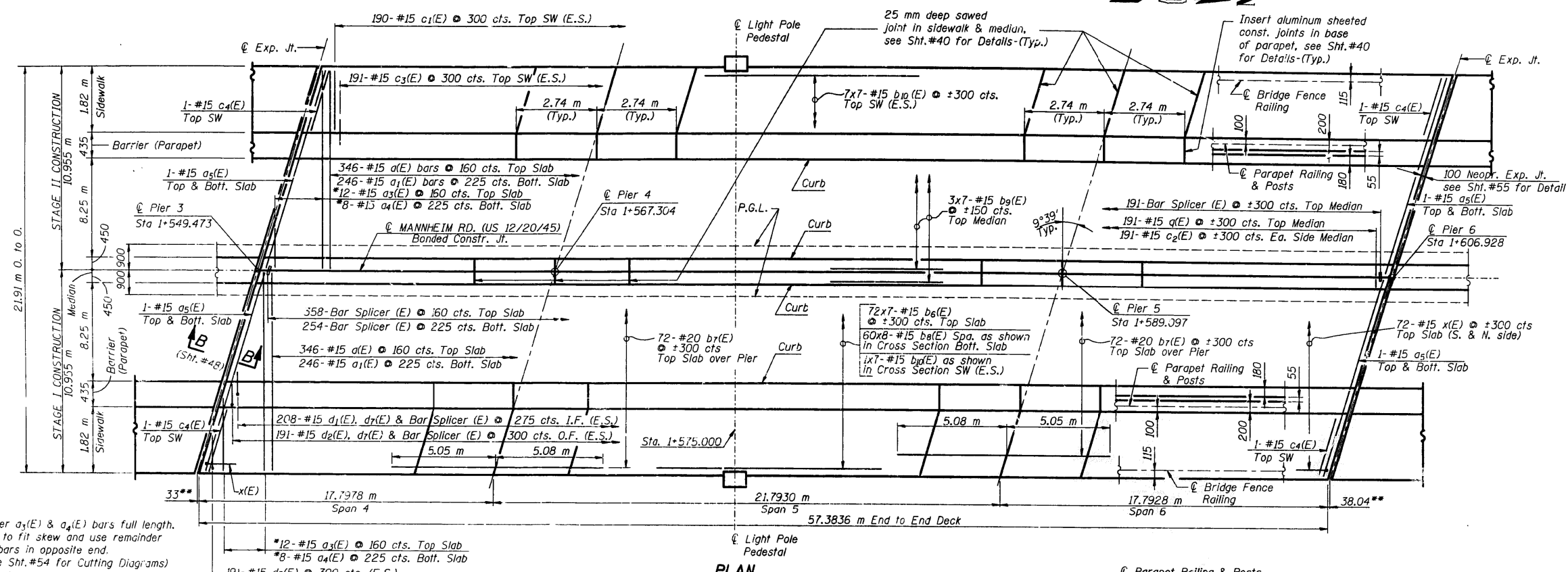
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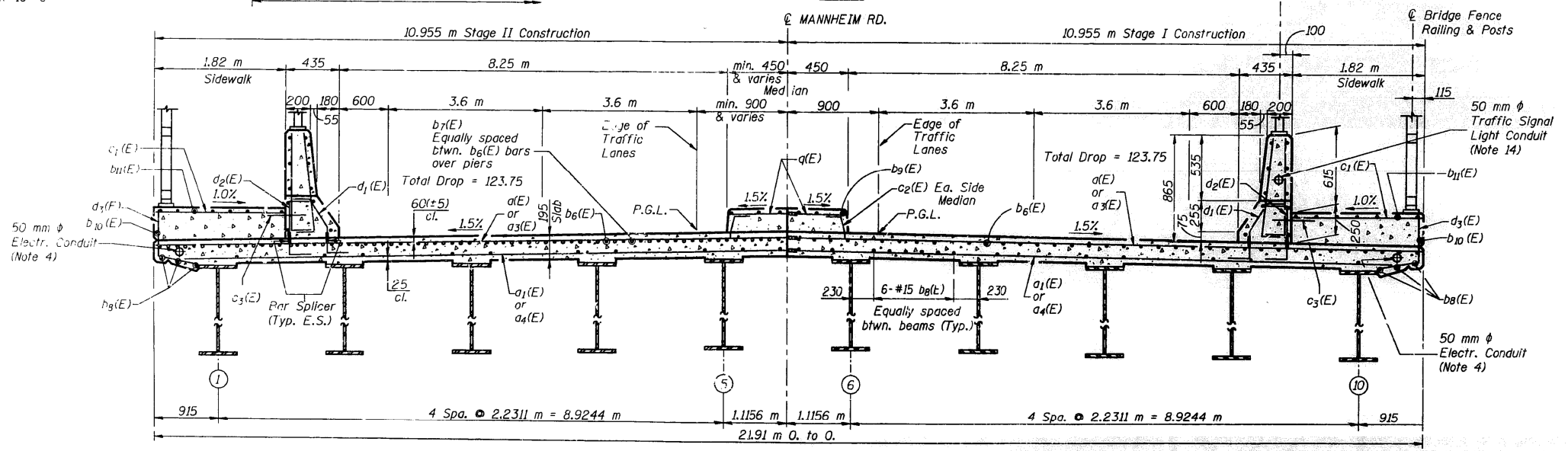
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			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



* Order $a_3(E)$ & $a_4(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end. (See Sht. #54 for Cutting Diagrams)
 ** AT 10 °C



DECK PLAN - UNIT 2
Spans 4, 5 & 6
 MANNHEIM ROAD (US 12/20/45)
 F.A.P. 330 OVER PROVISIO RR YARD
 COOK COUNTY SEC. 464VB - Y
 STATION 1+712.130
 STRUCTURE NO. 016-0337

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DEPARTMENT OF TRANSPORTATION**

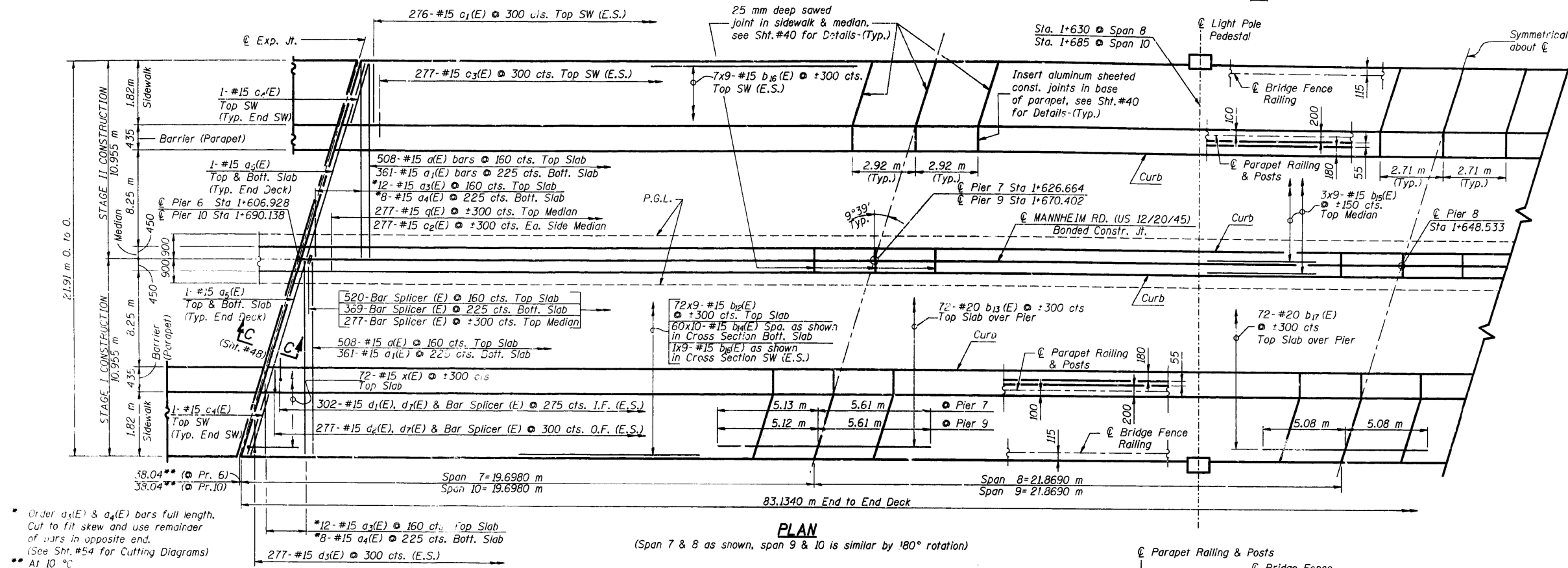
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SN: 016-0337**

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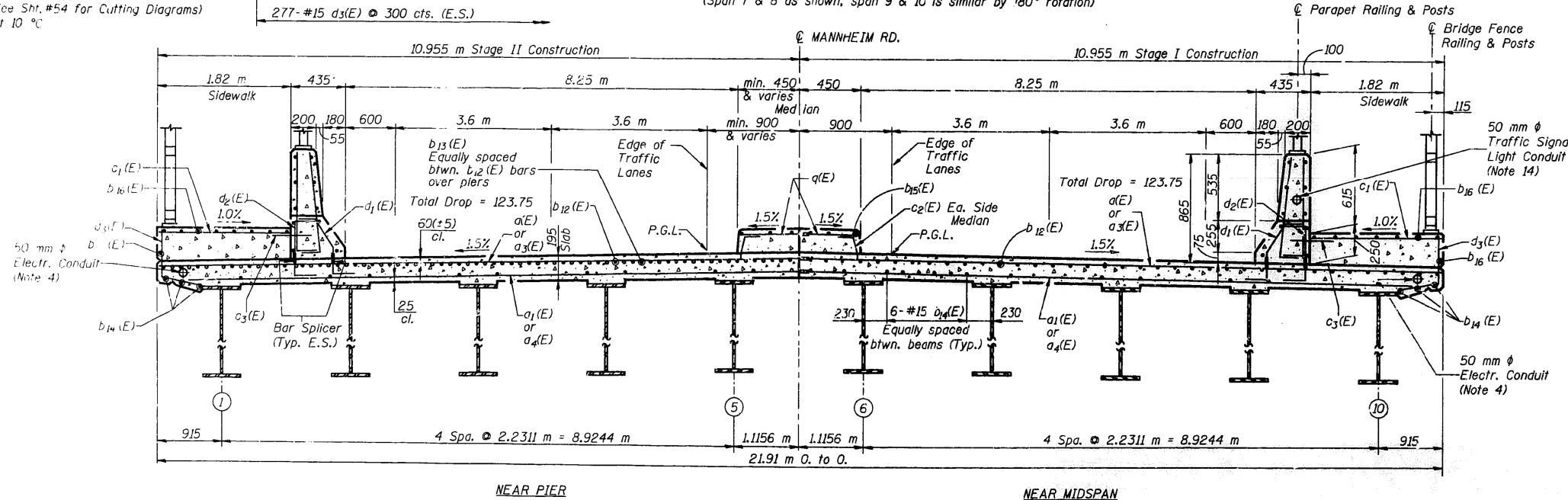
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VAR.	2020-026-BR	VARIOUS	58	9
		CONTRACT NO. 62K97		
		ILLINOIS		FED. AID PROJECT

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



- Order a₃(E) & a₄(E) bars full length. Cut to fit skew and use remainder of bars in opposite end. (See Sht. #54 for Cutting Diagrams)
- At 10 °C



DECK PLAN - UNIT 3
Spans 7, 8, 9 & 10
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330 OVER PROVISO RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016-0337

USER NAME = diaza	DESIGNED -	REVISED -
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

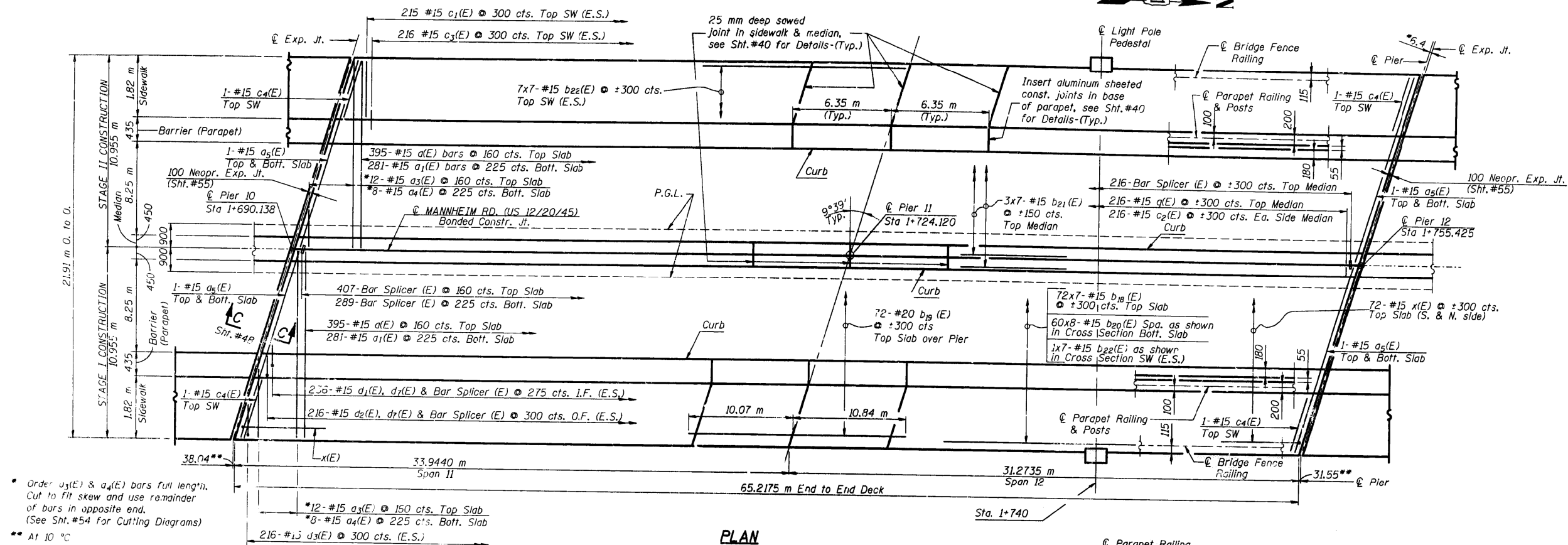
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VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	10
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				

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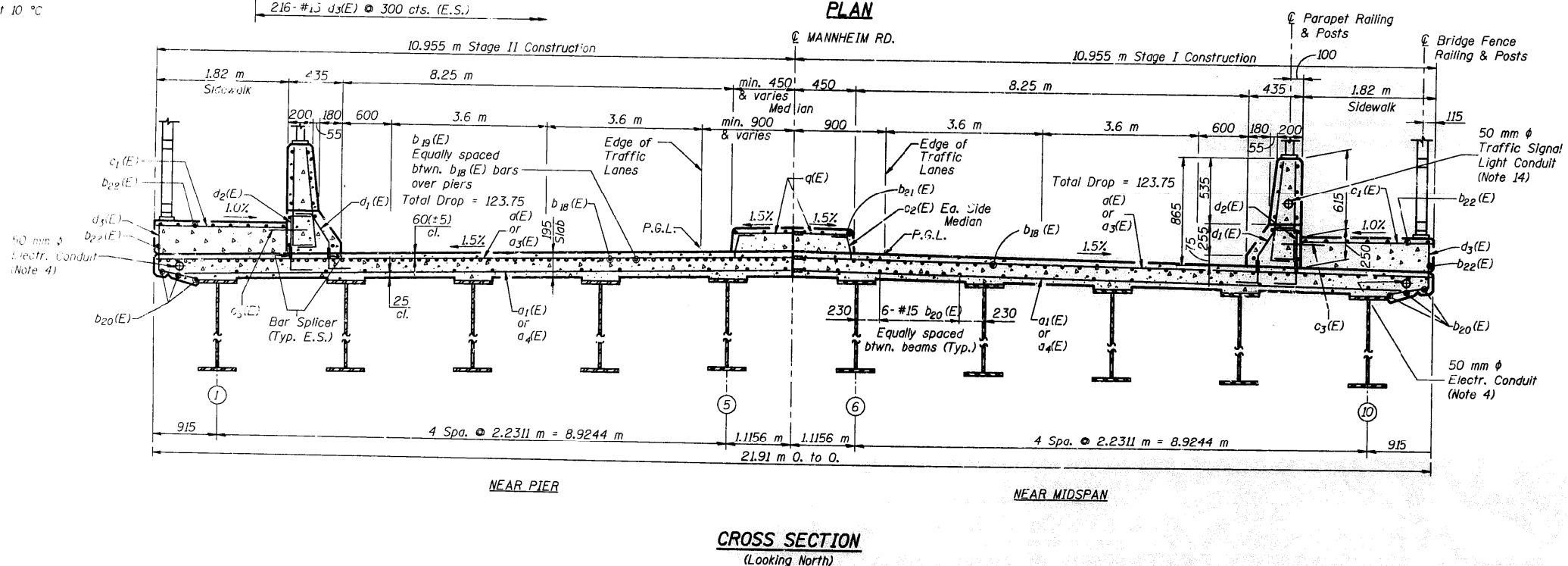
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



* Order a₃(E) & a₄(E) bars full length. Cut to fit skew and use remainder of bars in opposite end. (See Sht. #54 for Cutting Diagrams)

** At 10 °C



DECK PLAN - UNIT 4
Spans 11 & 12
 MANNHEIM ROAD (US 12/20/45)
 F.A.P. 330 OVER PROVISO RR YARD
 COOK COUNTY SEC. 464VB - Y
 STATION 1+712.130
 STRUCTURE NO. 016-0337

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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 1: US 12/20/45. OVER UP PROVISO YD
SN: 016-0337**

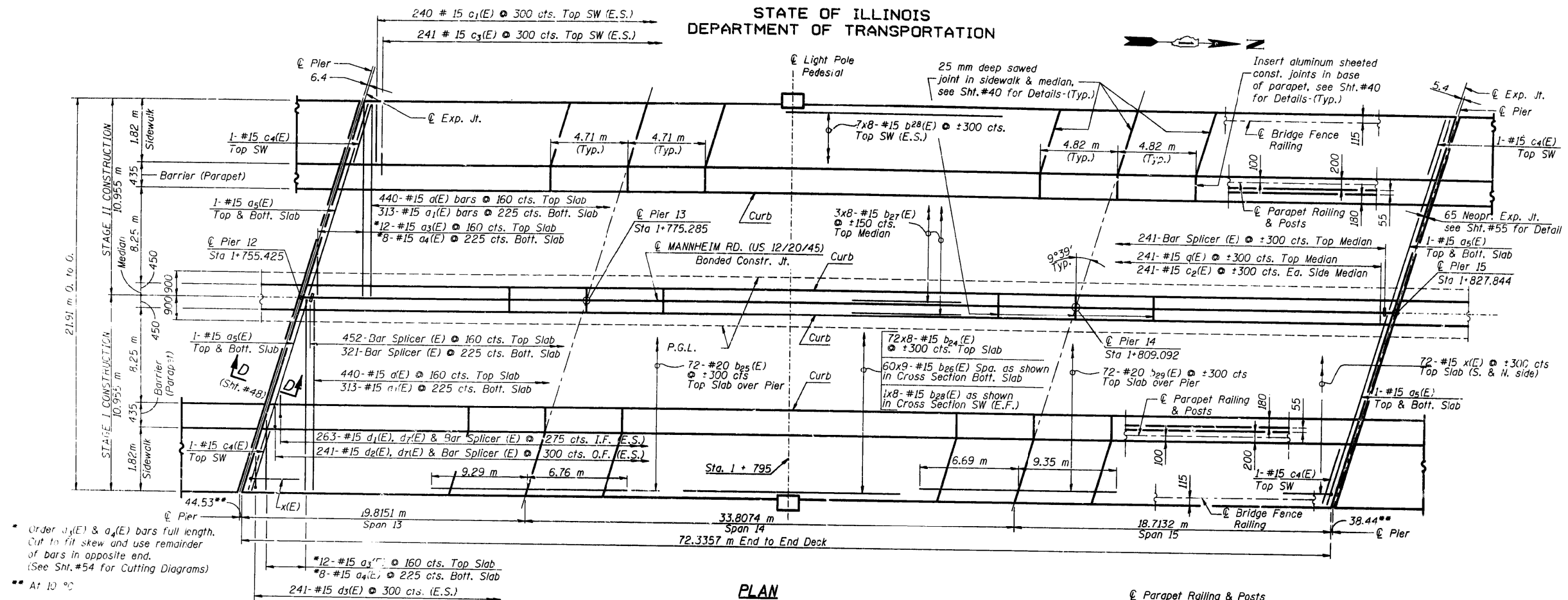
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VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	11
			CONTRACT NO. 62K97	
		ILLINOIS FED. AID PROJECT		

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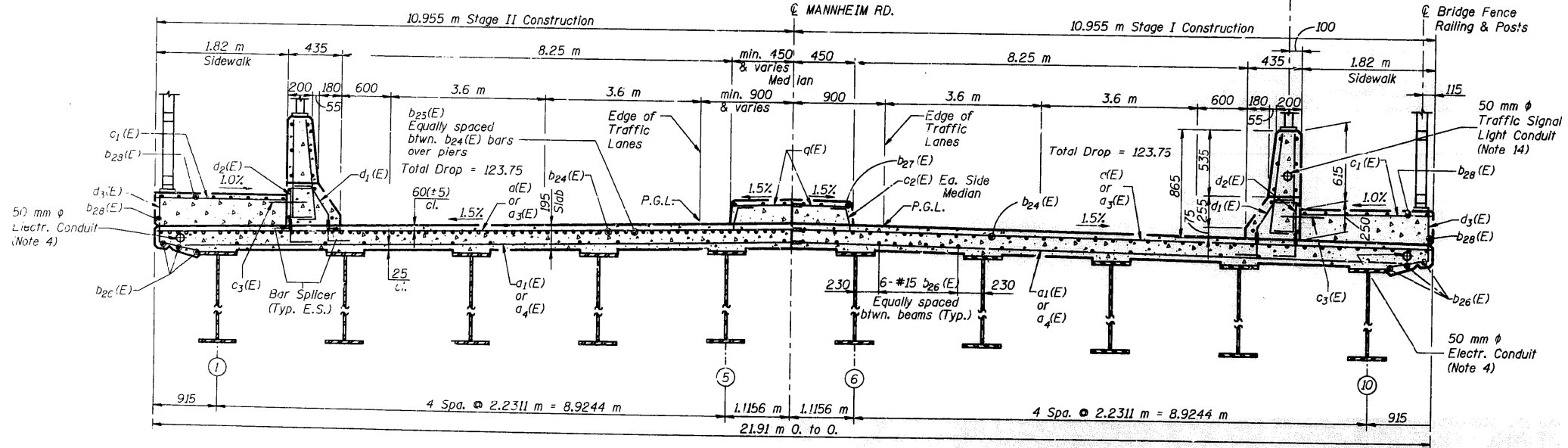
FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



- * Order $a_1(E)$ & $a_4(E)$ bars full length. Cut to fit skew and use remainder of bars in opposite end. (See Sht. #54 for Cutting Diagrams)
- ** At 10 °C

PLAN



CROSS SECTION (Looking North)

DECK PLAN - UNIT 5
Spans 13, 14 & 15
 MANNHEIM ROAD (US 12/20/45)
 F.A.P. 330 OVER PROVISO RR YARD
 COOK COUNTY SEC. 464VB - Y
 STATION 1+712.130
 STRUCTURE NO. 016-0337

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PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

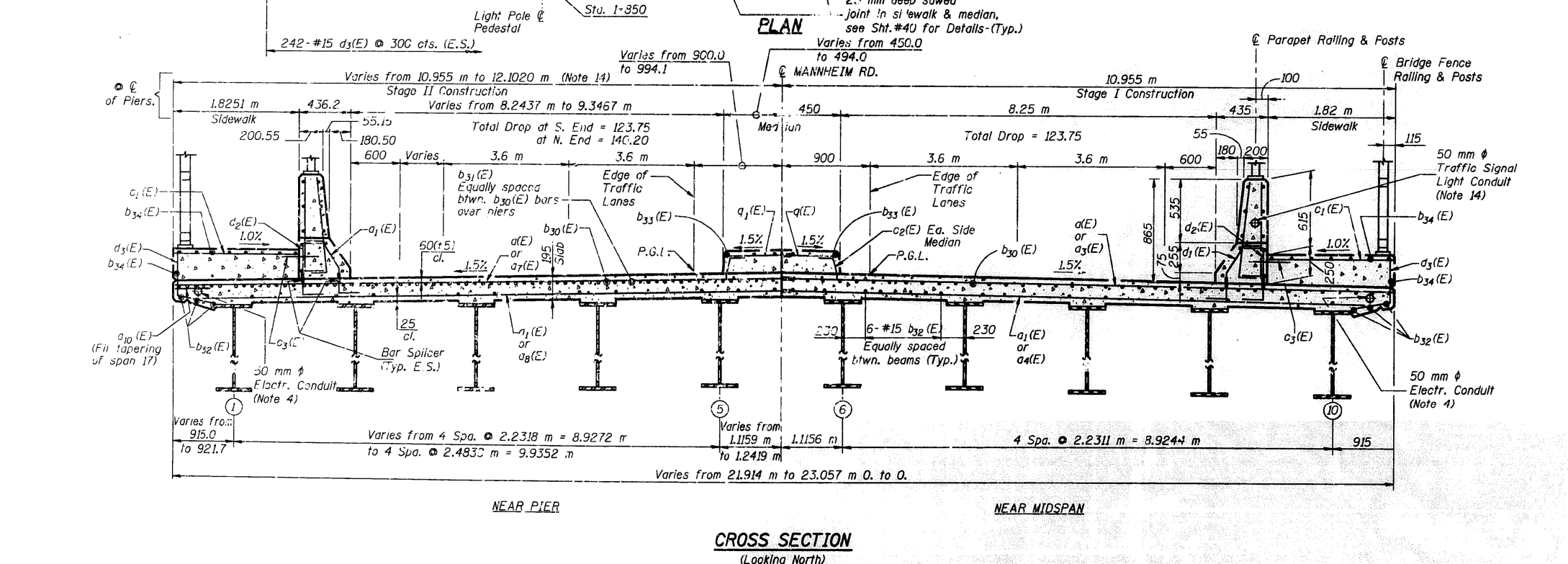
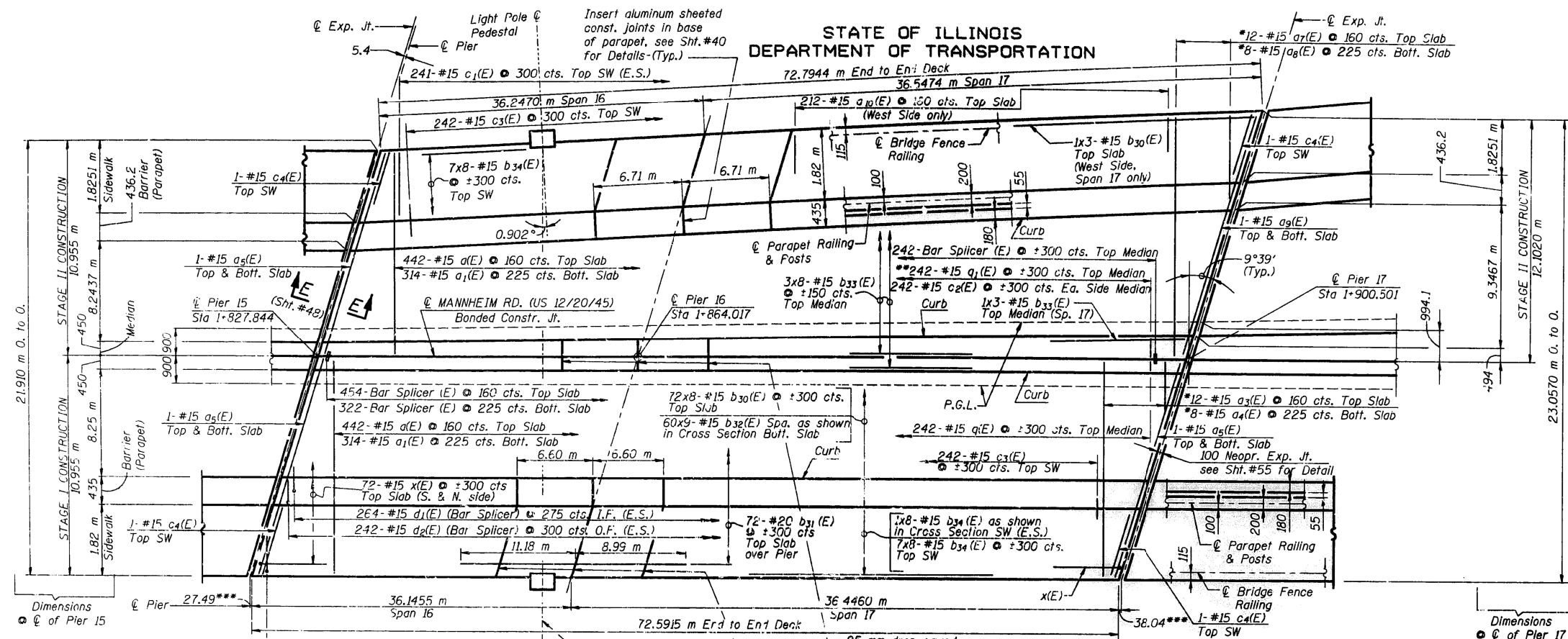
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SN: 016-0337**

SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 62K97
		ILLINOIS	FED. AID PROJECT	

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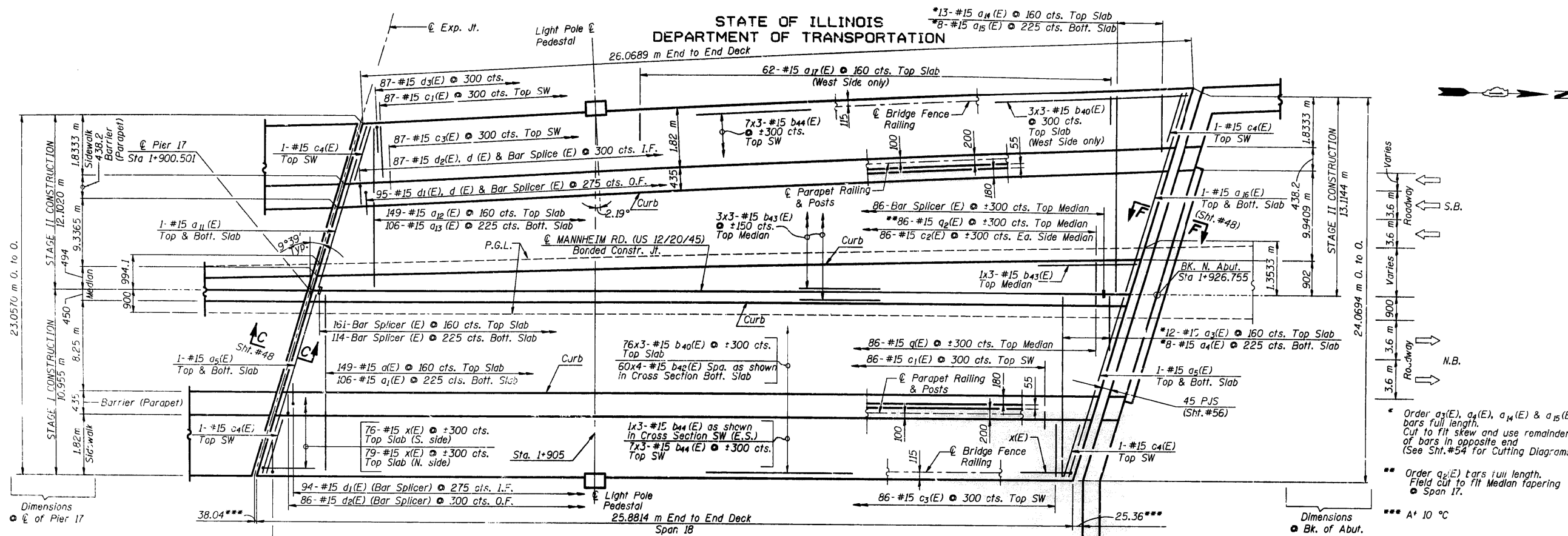
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



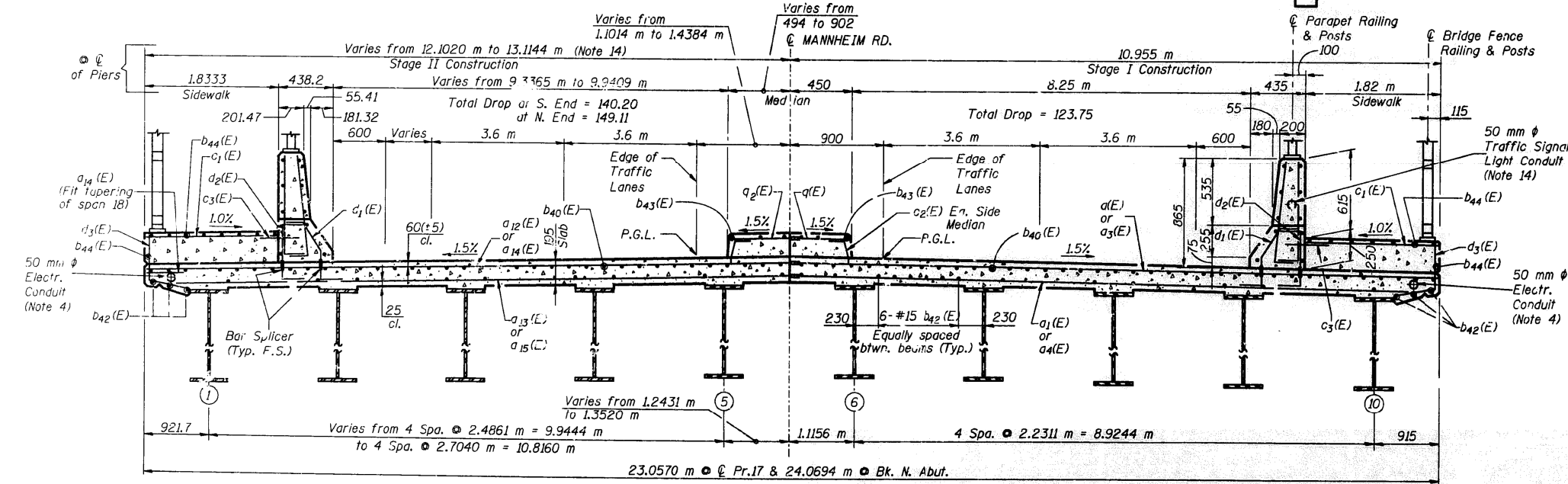
- Order $a_3(E)$, $a_4(E)$, $a_7(E)$ & $a_8(E)$ bars full length. Cut to fit skew and use remainder of bars in composite end (See Sht.#54 for Cutting Diagrams)
- Order $a_1(E)$ bars full length. Field cut to fit Median tapering
- At 10 °C

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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	VAR.			2020-026-BR	VARIOUS	58	13	
PLOT DATE = 3/25/2020	DATE -	REVISED -	SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.				CONTRACT NO. 62K97			
								ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY



PLAN



CROSS SECTION (Looking North)

* Order a3(E), a4(E), a14(E) & a15(E) bars full length. Cut to fit skew and use remainder of bars in opposite end (See Sht.#54 for Cutting Diagrams)
** Order a2(E) bars full length. Field cut to fit Median tapering @ Span 17.
*** A+ 10 °C

DECK PLAN - UNIT 7
Span 18
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330 OVER PROVISO RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016-0337

Table with columns for USER NAME, DESIGNED, DRAWN, PLOT SCALE, and PLOT DATE. Values include 'diaz', various revision markers, and a scale of 100,0000 / in.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

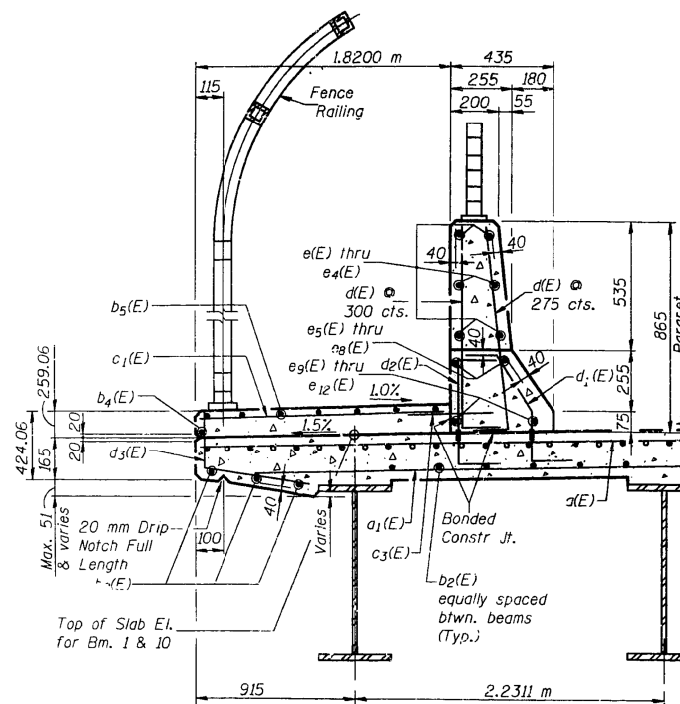
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SN: 016-0337
SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

Table with columns for VAR. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO. Values include '2020-026-BR', 'ILLINOIS', '58', '14', and '62K97'.

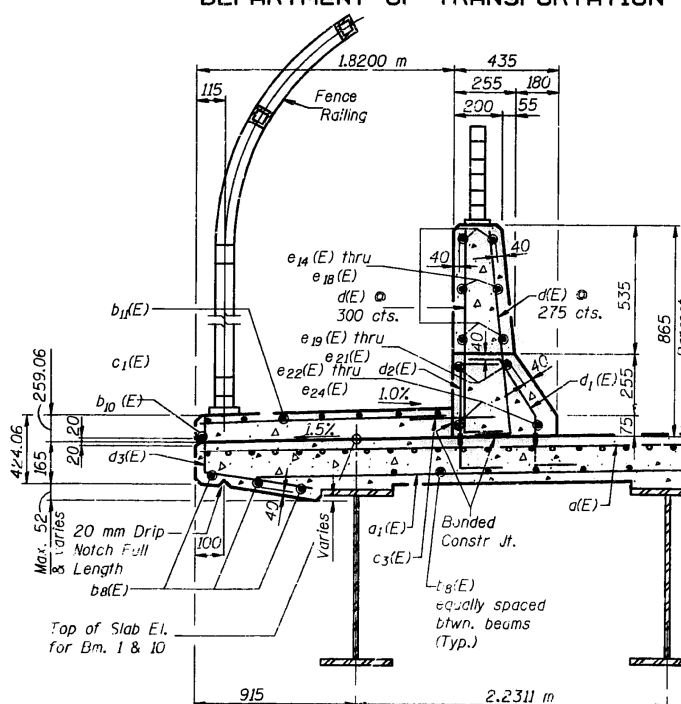
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FOR INFORMATION ONLY

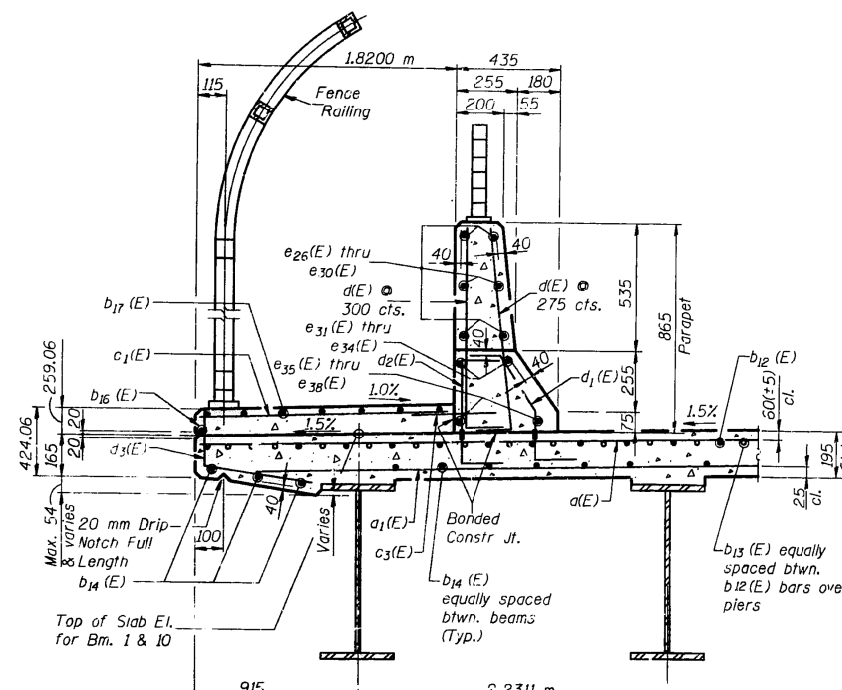
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



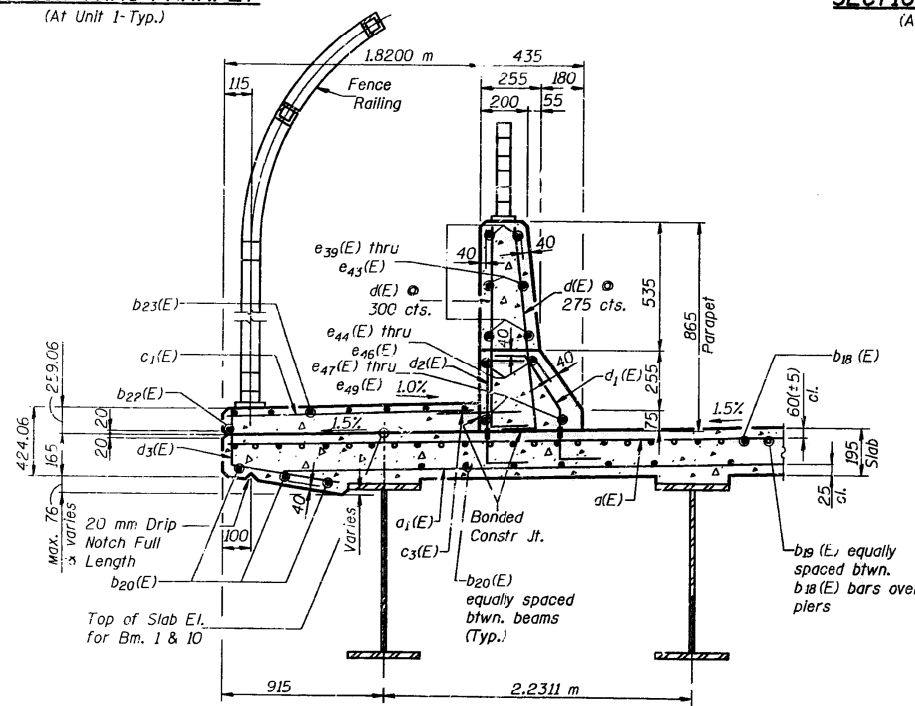
SECTION THRU PARAPET
(At Unit 1-Typ.)



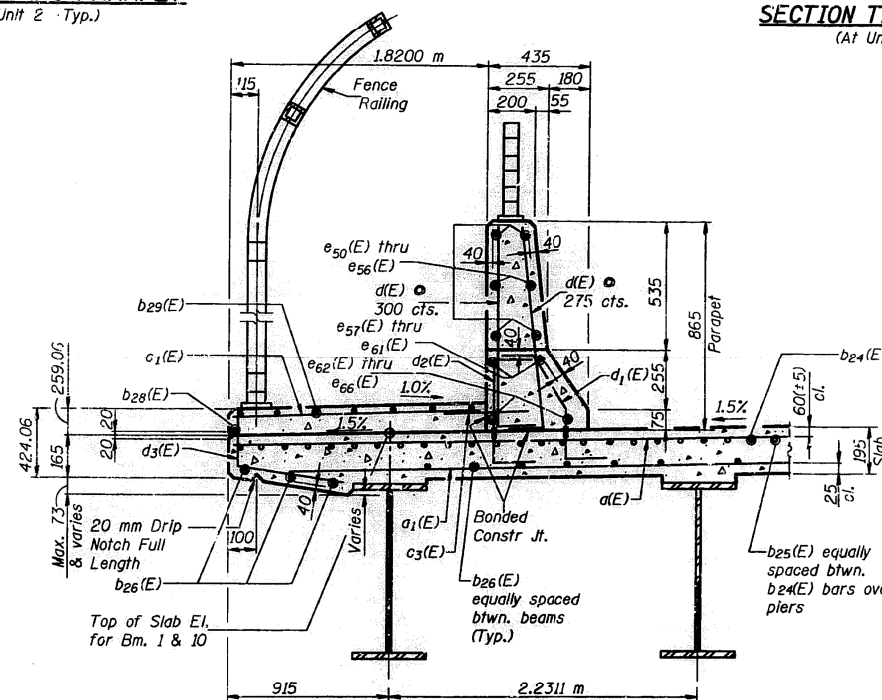
SECTION THRU PARAPET
(At Unit 2-Typ.)



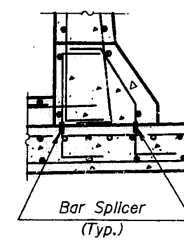
SECTION THRU PARAPET
(At Unit 3-Typ.)



SECTION THRU PARAPET
(At Unit 4-Typ.)



SECTION THRU PARAPET
(At Unit 5-Typ.)



TYPICAL DETAIL
(At All Sections thru Parapet)

- NOTE:
- All dimensions are in Millimeters (mm) except as noted.
 - Each section is Typical between Light Poles.
 - See Sht. #52 for typical section of Light Pole.
 - All sections are not to scale.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - See Shts. #41 to 45 for Bridge Fence Railing, Light Poles, Drainage Scuppers & Floor Drains layout.
 - See Shts. #33 to 38 for Parapet & Parapet Railing layout.

DECK DETAILS II
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330.0' OVER PROVISO RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016-0337

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 PLOT DATE = 3/25/2020

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

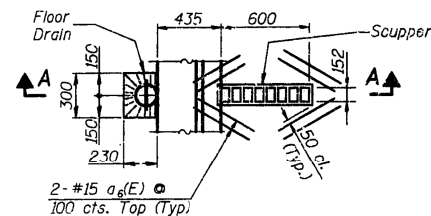
LOCATION 1: US 12/20/45. OVER UP PROVISO YD
SN: 016-0337

SCALE: SHEET 9 OF 11 SHEETS STA. TO STA.

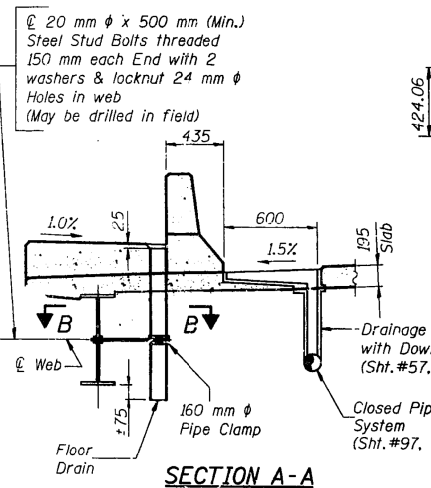
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 62K97
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

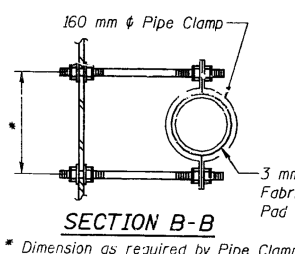
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



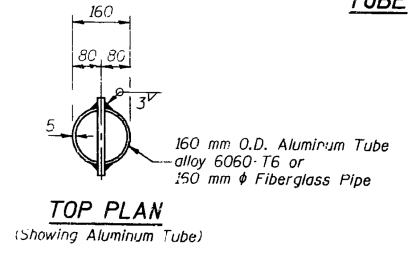
SCUPPER & FLOOR DRAIN PLAN
Cut Longitudinal Reinforcement
to clear Drainage Scupper.



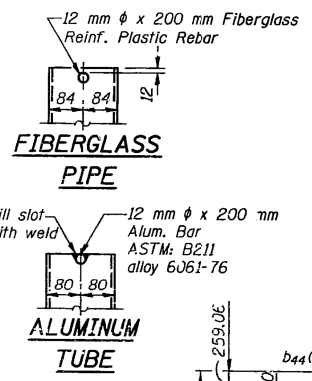
SECTION A-A



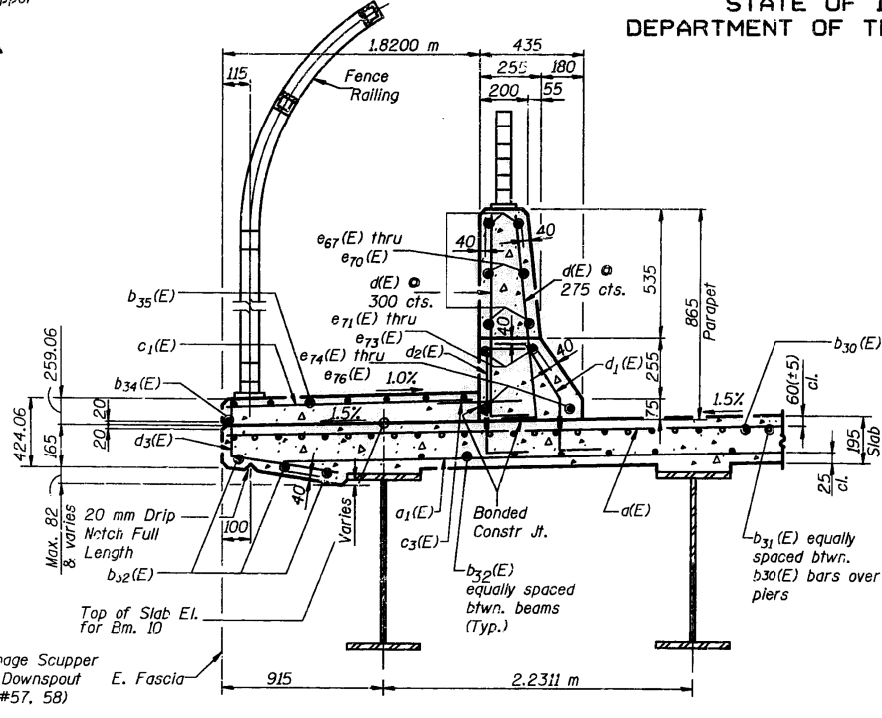
SECTION B-B
* Dimension as required by Pipe Clamp



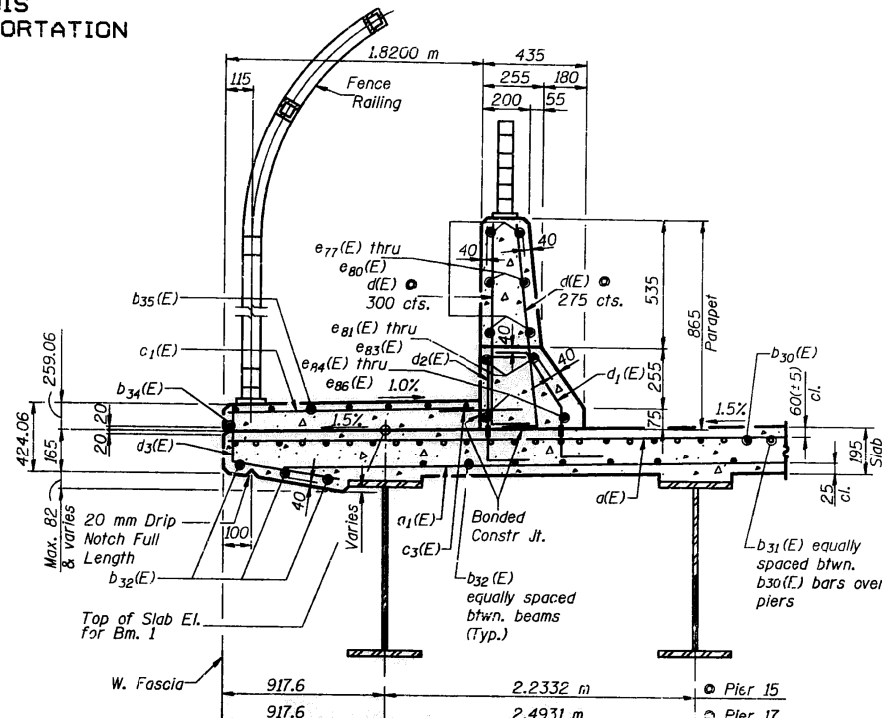
TOP PLAN
(Showing Aluminum Tube)



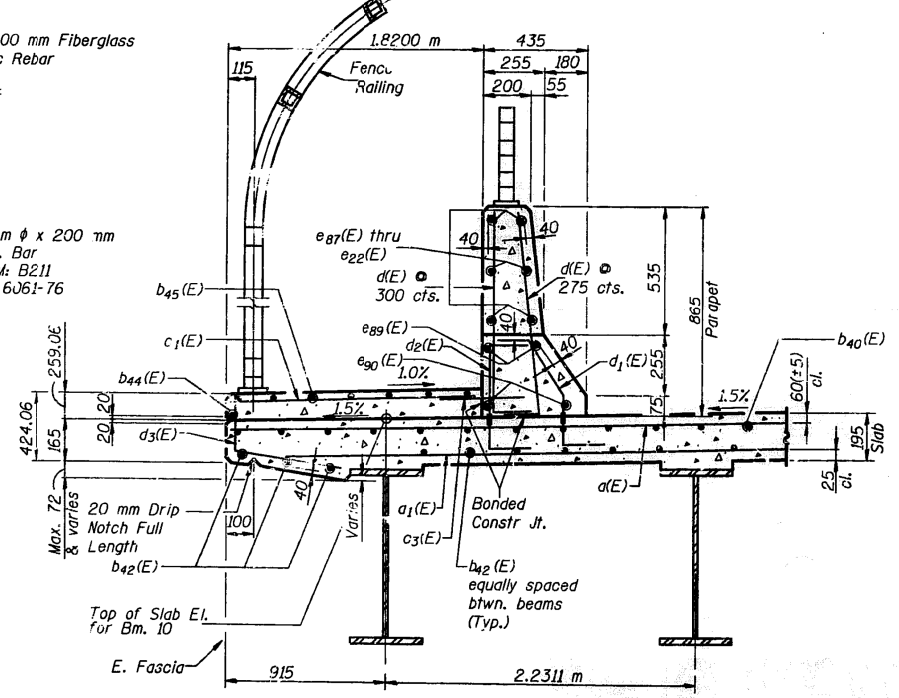
FIBERGLASS PIPE
ALUMINUM TUBE



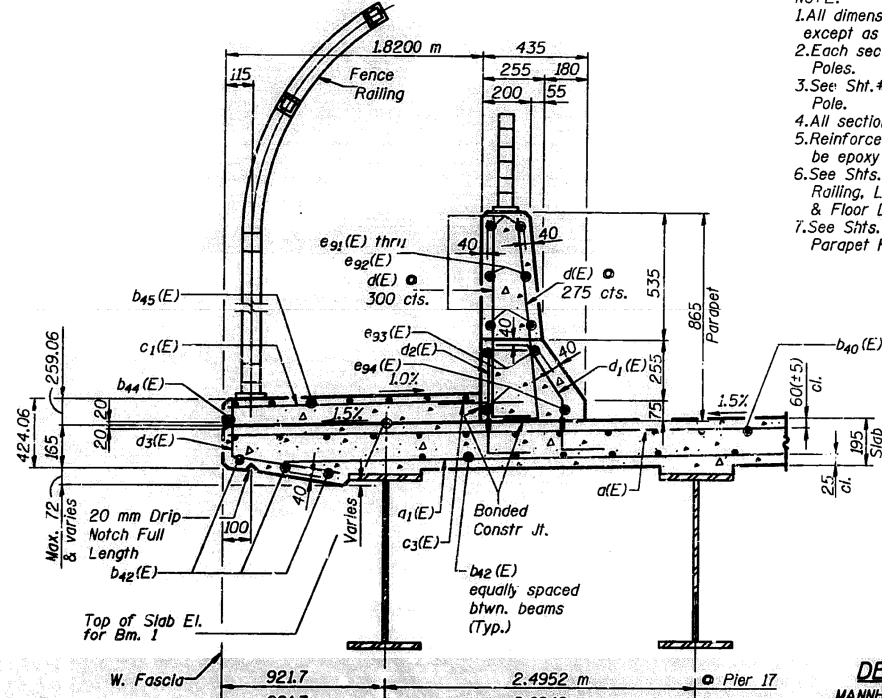
SECTION THRU PARAPET
(At Unit 6-looking South)



SECTION THRU PARAPET
(At Unit 6-looking North)



SECTION THRU PARAPET
(At Unit 7-looking South)



SECTION THRU PARAPET
(At Unit 7-looking North)

- NOTE.**
1. All dimensions are in Millimeters (mm) except as noted.
 2. Each section is Typical between Light Poles.
 3. See Sht. #52 for typical section of Light Pole.
 4. All sections are not to scale.
 5. Reinforcement bars designated (E) shall be epoxy coated.
 6. See Shts. #46, 47 for Bridge Fence Railing, Light Poles, Drainage Scuppers & Floor Drains layout.
 7. See Shts. #39, 40 for Parapet & Parapet Railing layout.

DECK DETAILS III
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330 OVER PROVISOR RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016-0337

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	DRAWN -	REVISED -
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PLOT DATE = 3/25/2020	DATE -	REVISED -

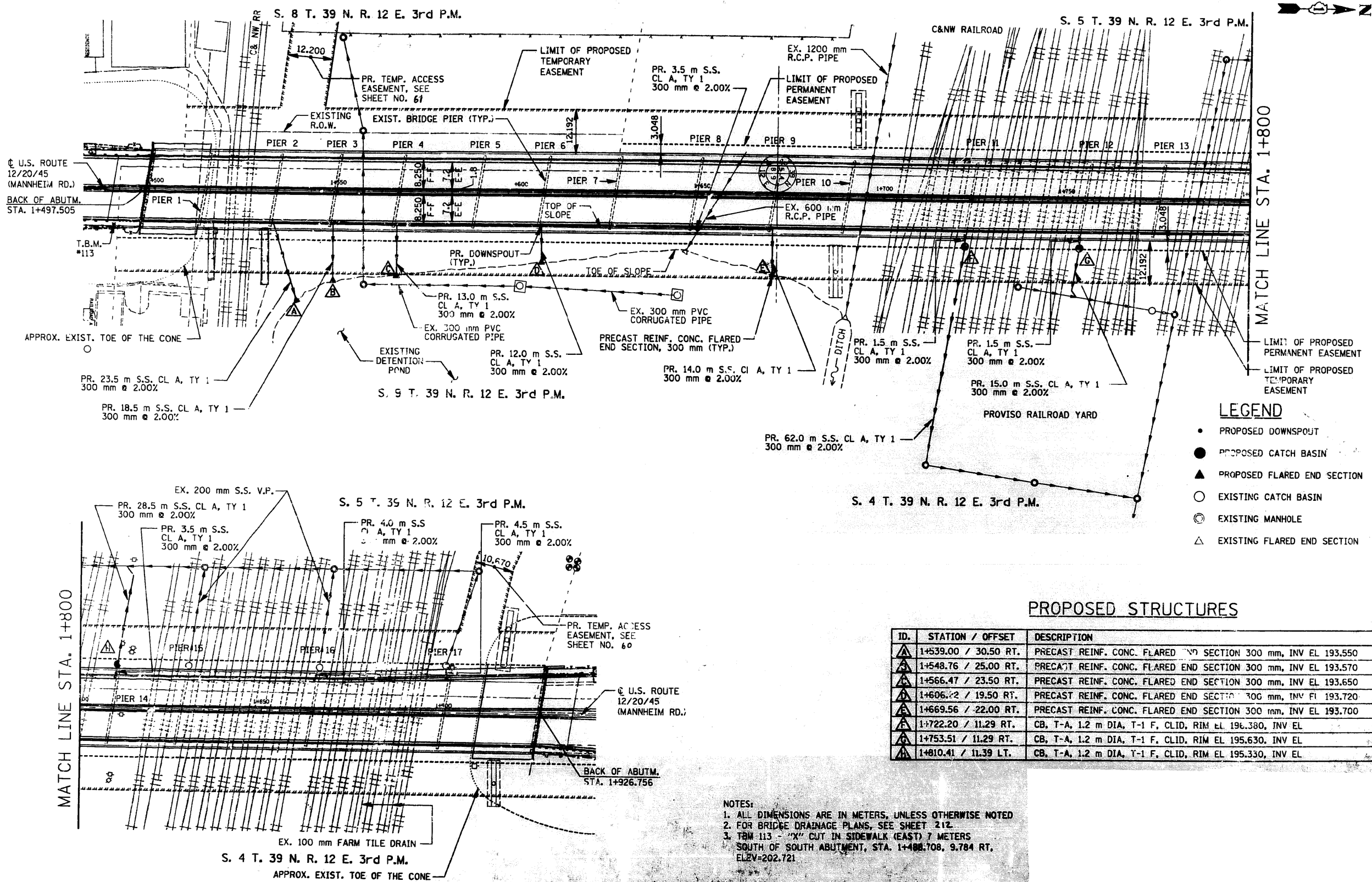
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 1: US 12/20/45 OVER UP PROVISOR YD
SN: 016-0337

SCALE: SHEET 10 OF 11 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	16
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



LEGEND

- PROPOSED DOWNSPOUT
- PROPOSED CATCH BASIN
- ▲ PROPOSED FLARED END SECTION
- EXISTING CATCH BASIN
- ⊙ EXISTING MANHOLE
- △ EXISTING FLARED END SECTION

PROPOSED STRUCTURES

ID.	STATION / OFFSET	DESCRIPTION
▲	1+539.00 / 30.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.550
▲	1+548.76 / 25.00 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.570
▲	1+566.47 / 23.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.650
▲	1+606.22 / 19.50 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.720
▲	1+669.56 / 22.00 RT.	PRECAST REINF. CONC. FLARED END SECTION 300 mm, INV EL 193.700
▲	1+722.20 / 11.29 RT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 196.380, INV EL
▲	1+753.51 / 11.29 RT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 195.630, INV EL
▲	1+810.41 / 11.39 LT.	CB, T-A, 1.2 m DIA, T-1 F, CLID, RIM EL 195.330, INV EL

- NOTES:**
1. ALL DIMENSIONS ARE IN METERS, UNLESS OTHERWISE NOTED
 2. FOR BRIDGE DRAINAGE PLANS, SEE SHEET 212
 3. TBM 113 - "X" CUT IN SIDEWALK (EAST) 7 METERS SOUTH OF SOUTH ABUTMENT, STA. 1+498.708, 9.784 RT, ELV=202.721

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	DATE -	REVISED -

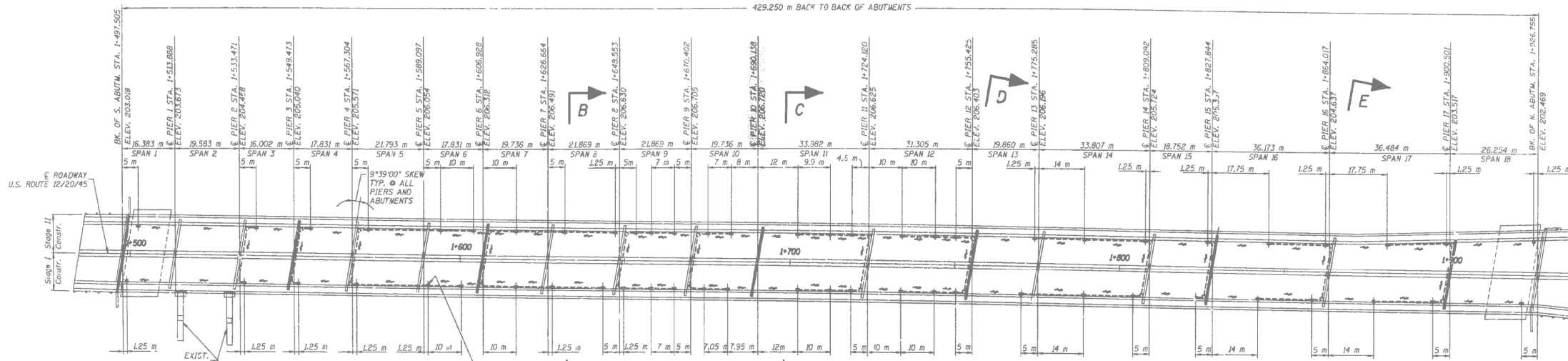
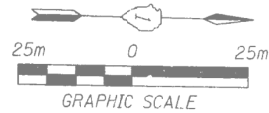
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 1: US 1220/45 OVER UP PROVISIO YD
SN: 016-0337**

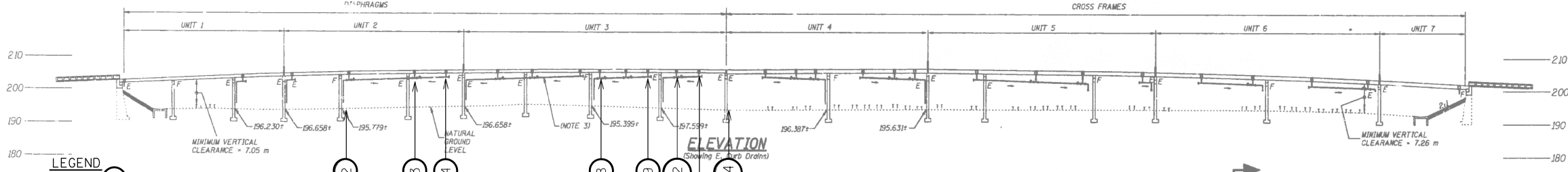
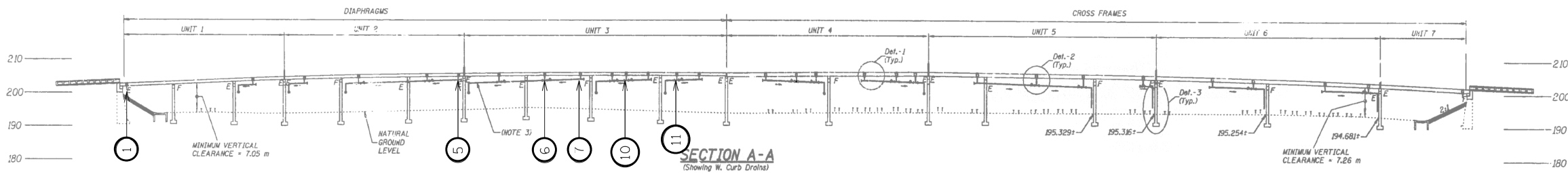
SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	17
				CONTRACT NO. 62K97
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



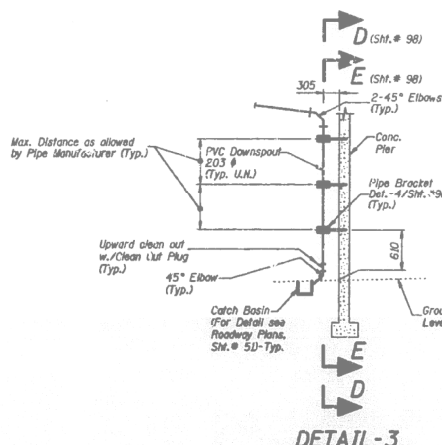
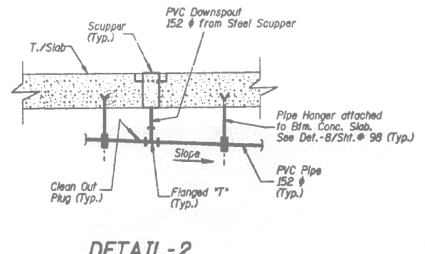
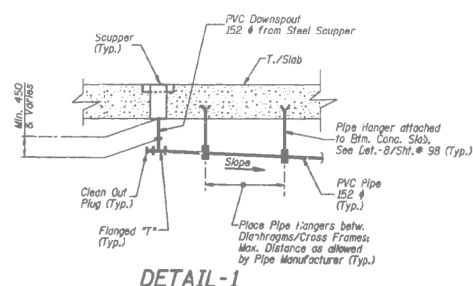
PLAN view details including cross frames, diaphragms, and pier details.



- LEGEND: 1 3' Missing Pipe, 2 3' Missing Cleanout, 3 3' Damaged Pipe, 4 3' Damaged Pipe, 5 3' Damaged Pipe, 6 3' Damaged Pipe, 7 3' Damaged Pipe, 8 3' Damaged Pipe, 9 3' Damaged Pipe, 10 3' Damaged Pipe, 11 3' Damaged Pipe, 12 3' Damaged Pipe, 13 3' Damaged Pipe, 14 3' Missing Cleanout Cap

BILL OF MATERIALS

Table with 3 columns: BRIDGE DRAINAGE SYSTEM REPAIR, FOOT, 42



NOTES: 1. ALL DIMENSIONS ARE IN MILLIMETERS (mm), EXCEPT AS NOTED. 2. FOR TYPICAL SCUPPER DETAILS, SEE SHTS #57 & #58. 3. LONGITUDINAL DRAIN PIPES SHOWN ARE ABOVE THE BOTTOM FLANGES OF BEAMS & GIRDETS. SLOPES ARE APPROXIMATELY PARALLEL TO BEAM/GIRDER.

BRIDGE DRAINAGE PLAN MANNHEIM ROAD (US 12/20/45) F.A.P. 330 OVER PROVISOR RR YARD COOK COUNTY SEC. 464VB - Y STATION 1+712.130 STRUCTURE NO. 016-0337

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Table with columns: USER NAME, DESIGNED, DRAWN, PLOT SCALE, PLOT DATE, etc.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

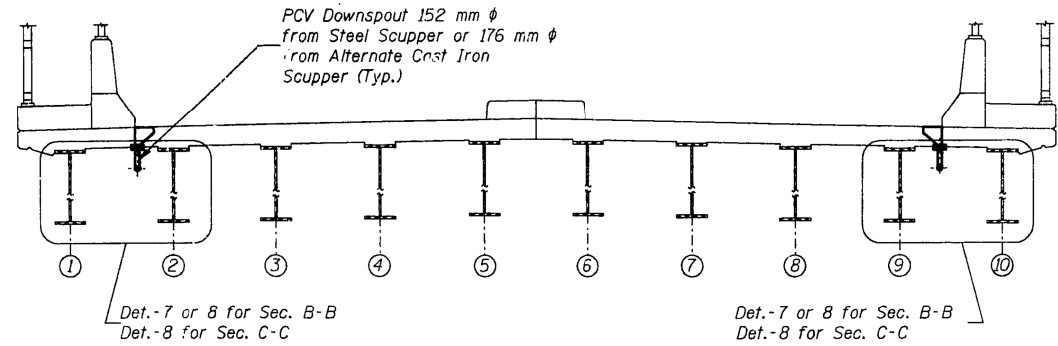
DRAINAGE REPAIR PLAN SN: 016-0337

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

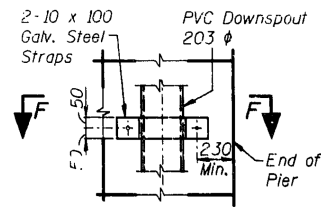
Table with columns: VAR. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., etc.

FOR INFORMATION ONLY

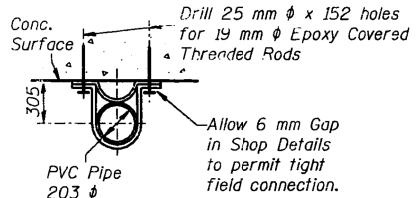
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



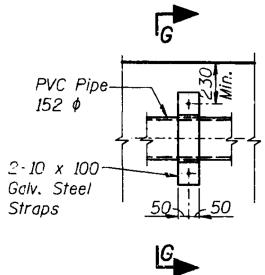
**SECTION B-B • Diaphragms
(Units 1 to 3)**
**SECTION C-C • Cross Frames
(Units 4 to 7)**



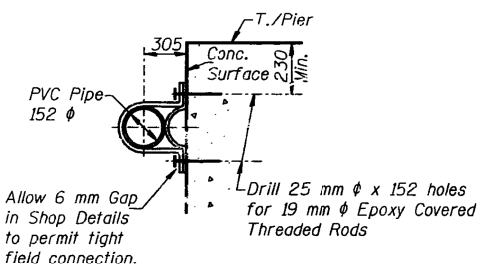
DETAIL-4



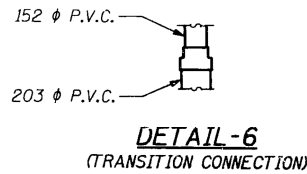
SECTION F-F



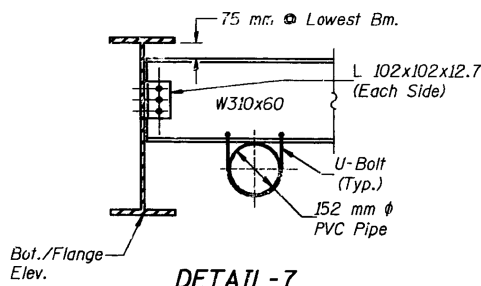
DETAIL-5



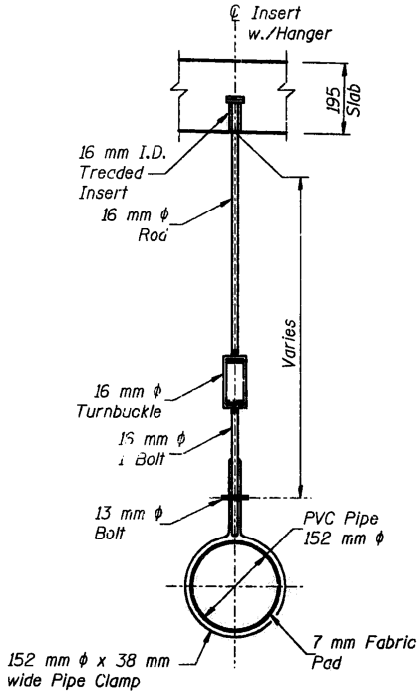
SECTION G-G



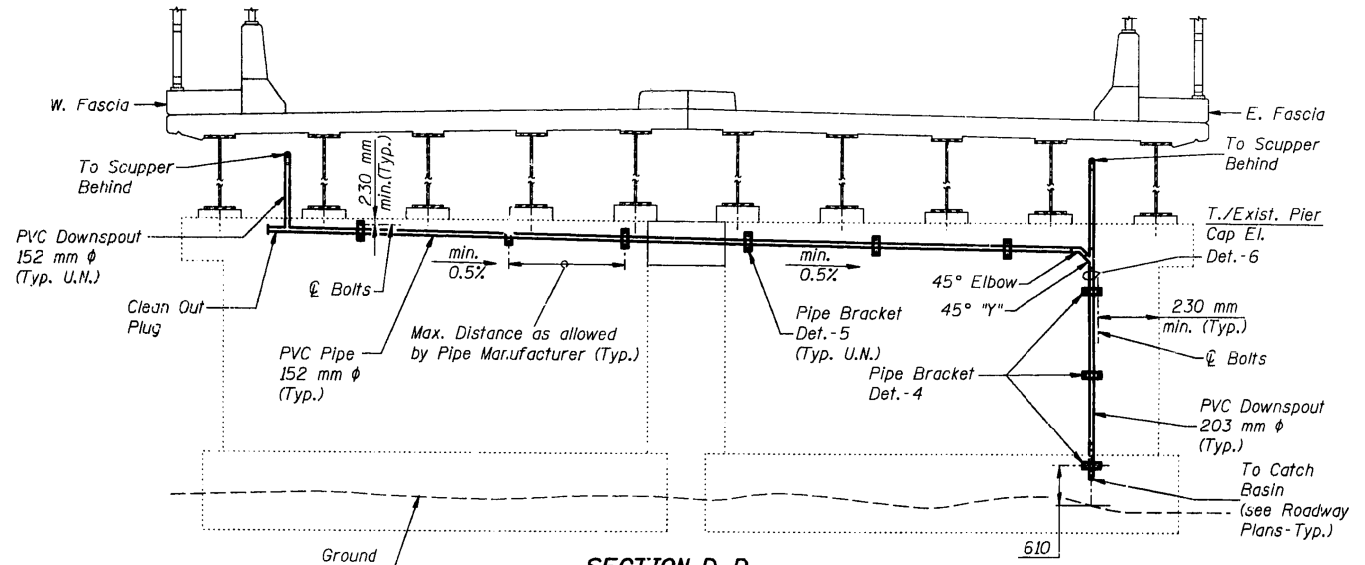
**DETAIL-6
(TRANSITION CONNECTION)**



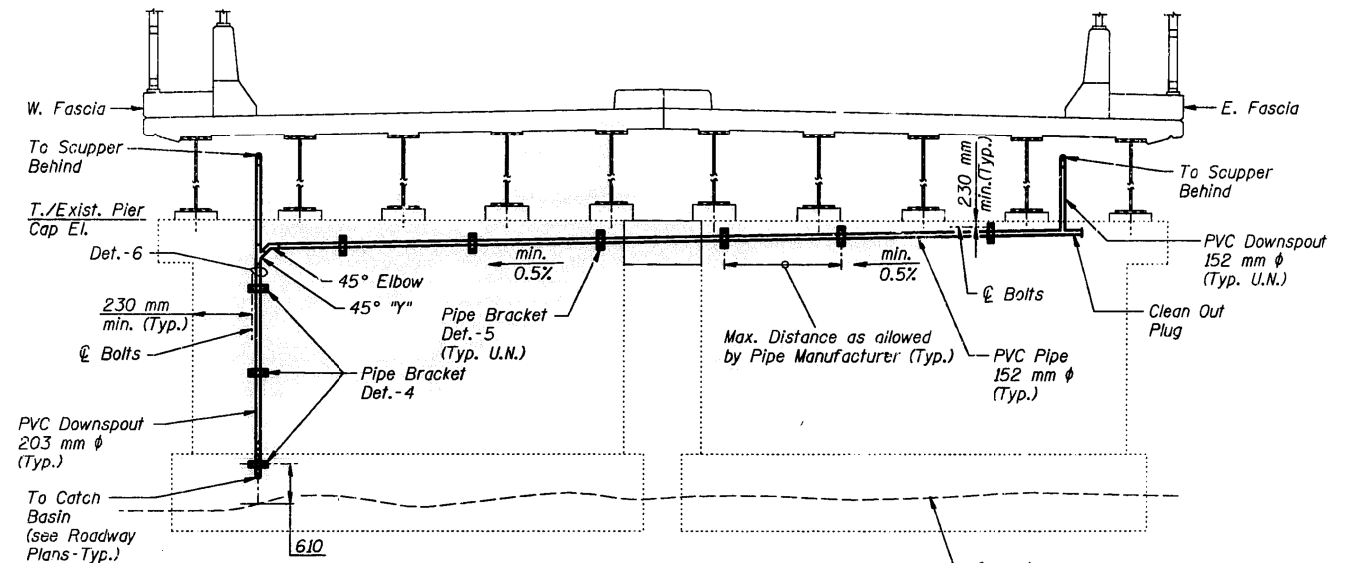
**DETAIL-7
(INTERIOR DIAPHRAGM D-4)**



DETAIL-8



**SECTION D-D
• Piers 1 to 12**



**SECTION E-E
• Piers 13 to 17**

Note:
All Dimensions are in millimeters (mm), except as noted.

**TYPICAL DRAINAGE
SECTIONS & DETAILS**
MANNHEIM ROAD (US 12/20/45)
F.A.P. 330 OVER PROVISO RR YARD
COOK COUNTY SEC. 464VB - Y
STATION 1+712.130
STRUCTURE NO. 016-0337

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	DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

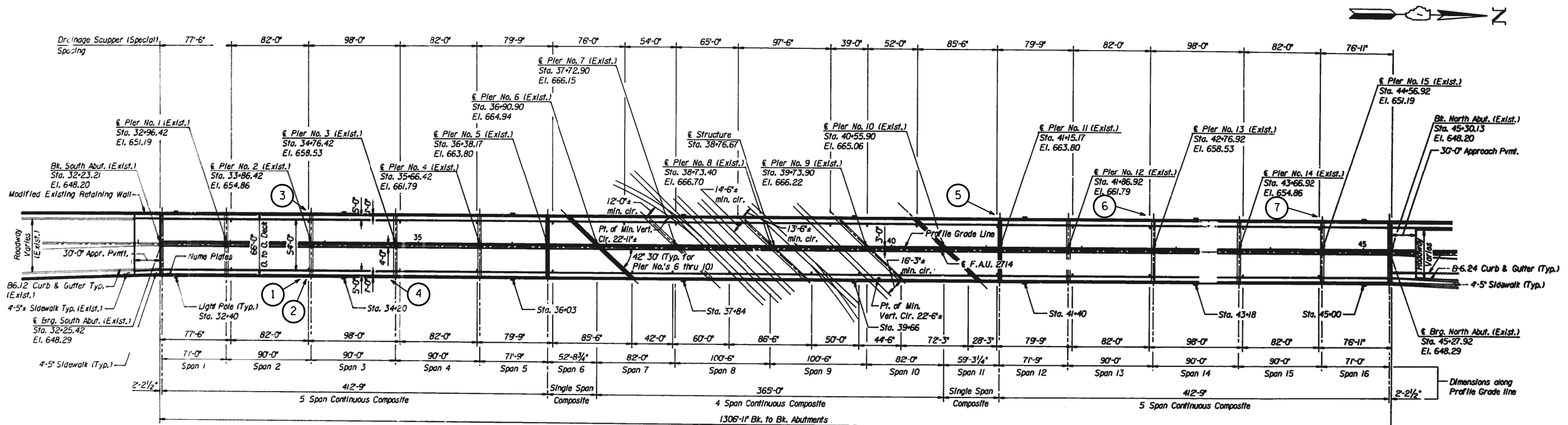
**DRAINAGE REPAIR PLAN
SN: 016-0337**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	19
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

T.B.M.: Railroad spike in light pole in northeast quadrant of 25th Avenue and Armitage Ave. Elev. 637.23
 Existing Structure: Structure No. 016-1011, built as 25th Avenue, Section 020-1010.2MFT in 1965 is 66'-0" wide by 1302'-6" long. The existing sixteen span reinforced concrete deck and steel wide flange beams are supported on multiple column piers and closed abutments. The existing concrete deck shall be removed. Five beams in Span 6 and five beams in Span 11 shall be replaced with new W36 steel beams. Existing expansion bearings below deck joints shall be replaced. Existing abutments and piers shall be repaired. A new 66'-0" wide composite concrete deck shall be constructed. Existing abutments, piers, and steel beams shall be incorporated into new construction. Traffic shall be staged during construction.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

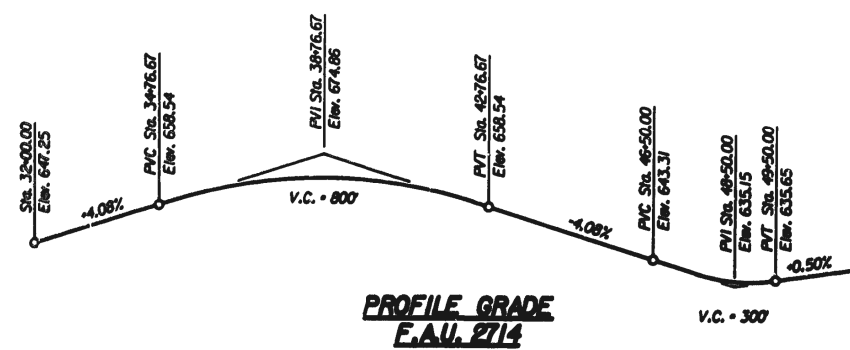


PLAN

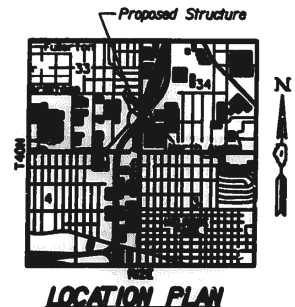
- LEGEND**
- ① 5' Damaged Pipe at Deck Level
 - ② 3' Damaged Pipe at Ground Level
 - ③ 3' Damaged Pipe at Ground Level
 - ④ 10' Damaged Pipe at Deck Level
 - ⑤ 3' Damaged Pipe at Deck Level
 - ⑥ 3' Damaged Pipe at Ground Level
 - ⑦ 5' Damaged Pipe at Deck Level

BILL OF MATERIALS

BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	32
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PROFILE GRADE
 F.A.U. 2714



LOCATION PLAN

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION 2: 25TH AVENUE OVER IHB (DRAINAGE REPAIRS PLAN)
 SN: 016-1011

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	22
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

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Notes:

The surface of the fiberglass pipe shall be free of bond inhibiting agents.

Bolts, washers and nuts for "Drainage System" shall conform to the requirements of ASTM A-307.

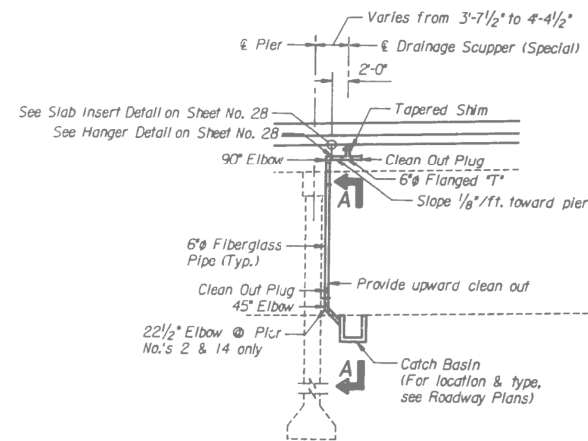
The fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

The pay item "Drainage System" shall include providing and installing 6" pipe, 6" T's, elbows, clean outs, inserts, straps, hangers, steel pipe ballards and all other necessary items to complete the underdeck drainage system. See Special Provisions.

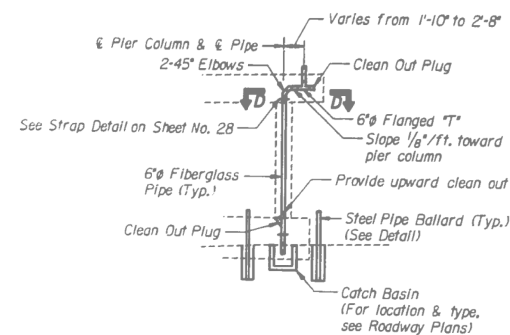
The "Drainage System" shall be painted with the Zinc-Silicate and Vinyl Paint System specified for new structural steel.

For Drainage System Details (Slab Insert, Hanger, Section D-D), see Sheet No. 28.

For Drainage Scupper (Special) locations, see Sheet Nos. 18 thru 20.



ELEVATION AT PIER NO'S 1 THRU 5 AND 11 THRU 15
(Total = 17)



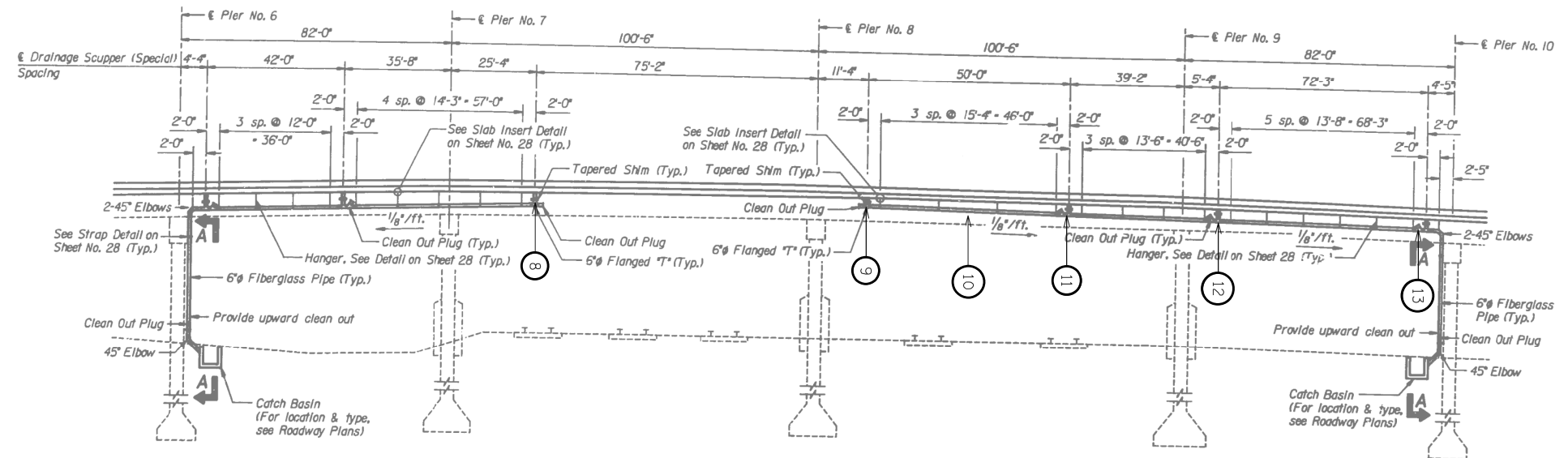
VIEW A-A

LEGEND

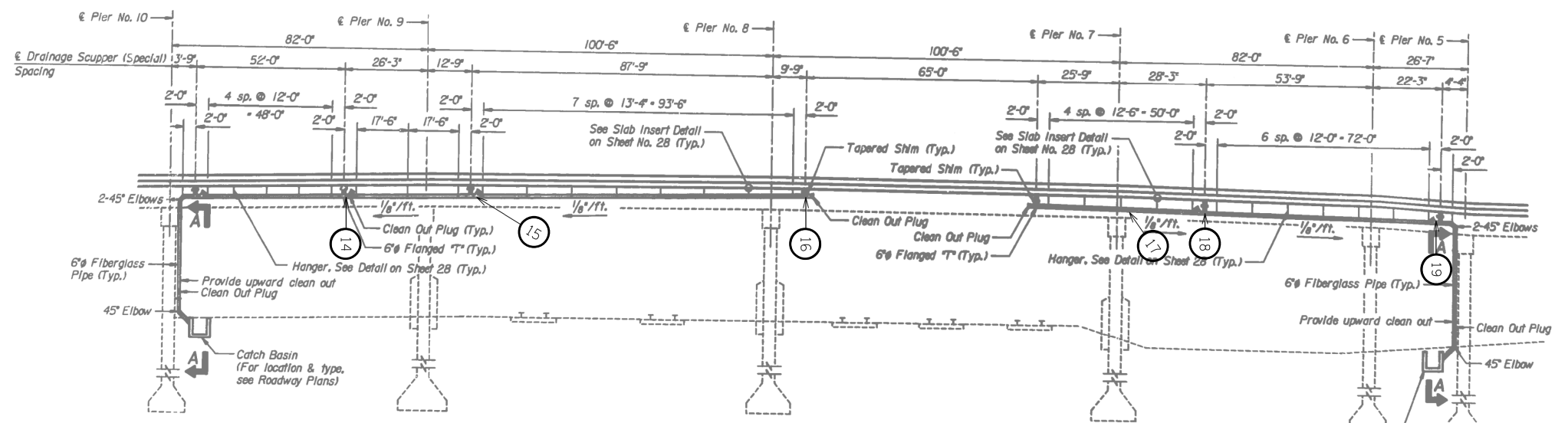
- 8 5' Damaged Horizontal Pipe at Deck Level
- 9 3' Damaged Horizontal Pipe at Deck Level
- 10 2' Damaged Horizontal Pipe at Deck Level
- 11 3' Damaged Horizontal Pipe at Deck Level
- 12 3' Damaged Horizontal Pipe at Deck Level
- 13 5' Damaged Horizontal Pipe at Deck Level
- 14 3' Damaged Horizontal Pipe at Deck Level
- 15 3' Damaged Horizontal Pipe at Deck Level
- 16 3' Damaged Horizontal Pipe at Deck Level
- 17 2' Damaged Horizontal Pipe at Deck Level
- 18 3' Damaged Horizontal Pipe at Deck Level
- 19 5' Damaged Horizontal Pipe at Deck Level

BILL OF MATERIALS

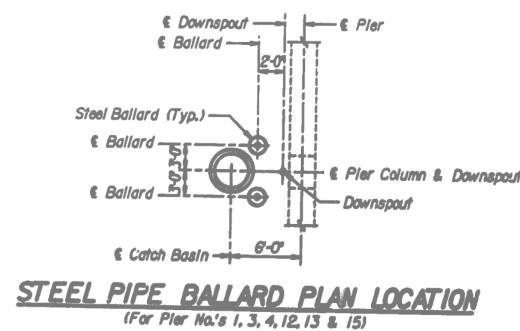
BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	40
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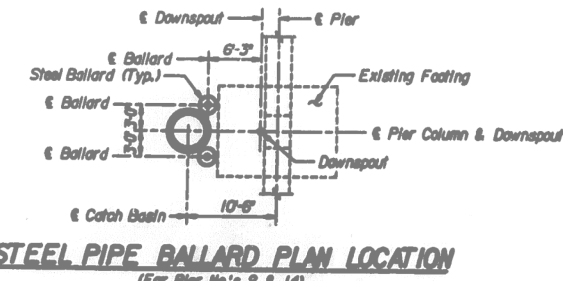
ELEVATION AT PIER NO'S 6 THRU 10
(Looking West)



ELEVATION AT PIER NO'S 5 THRU 10
(Looking East)



STEEL PIPE BALLARD PLAN LOCATION
(For Pier No's 1, 3, 4, 12, 13 & 15)



STEEL PIPE BALLARD PLAN LOCATION
(For Pier No's 2 & 14)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REPAIR PLAN
SN: 016-1011

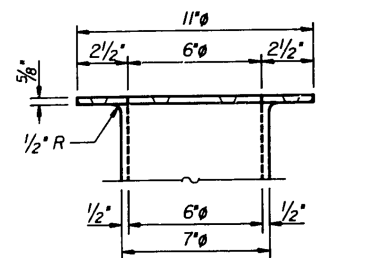
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	23
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

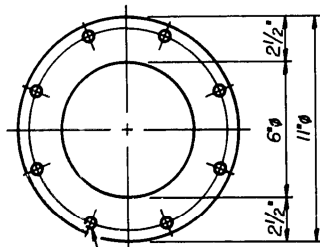
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

MODEL: Default
FILE: Model2_PipeBallard.dwg
PROJECT: 1408270_CADDData\Design\1408270_evd.dwg
PROJECT: 1408270_CADDData\Design\1408270_evd.dwg

FOR INFORMATION ONLY

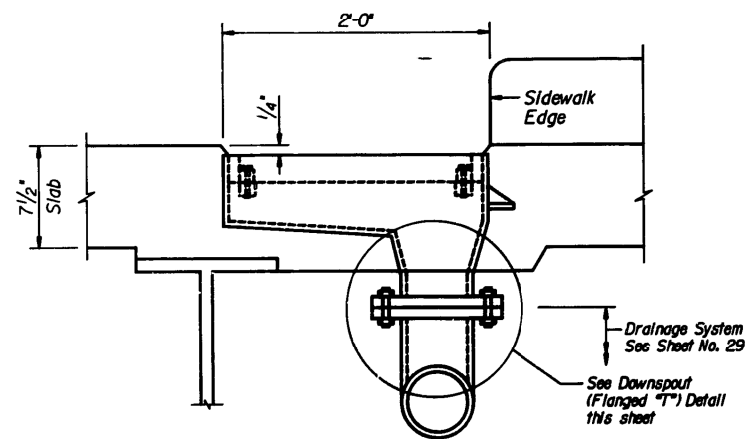


DOWNSPOUT (FLANGED "T")

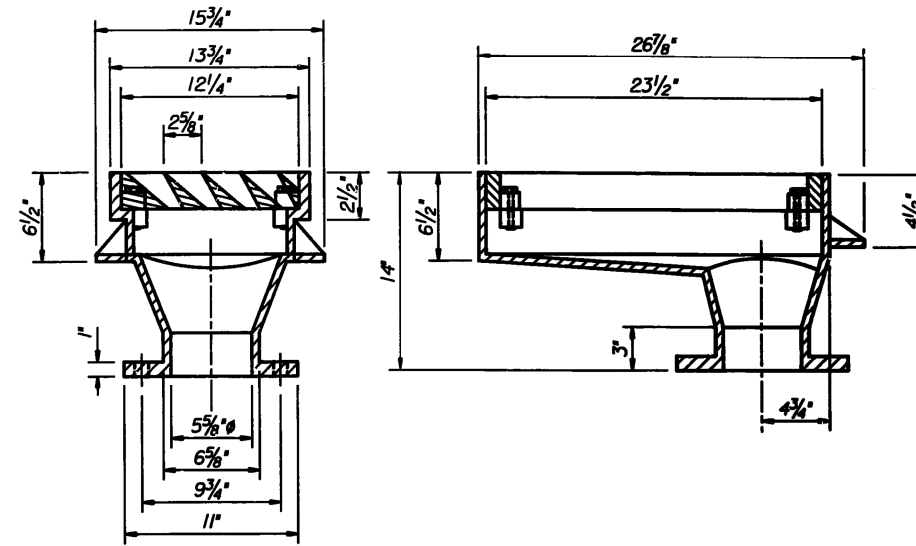


Drill & Tap 8 Holes for 3/4" Bolts on 9 3/4" Bolt Circle.

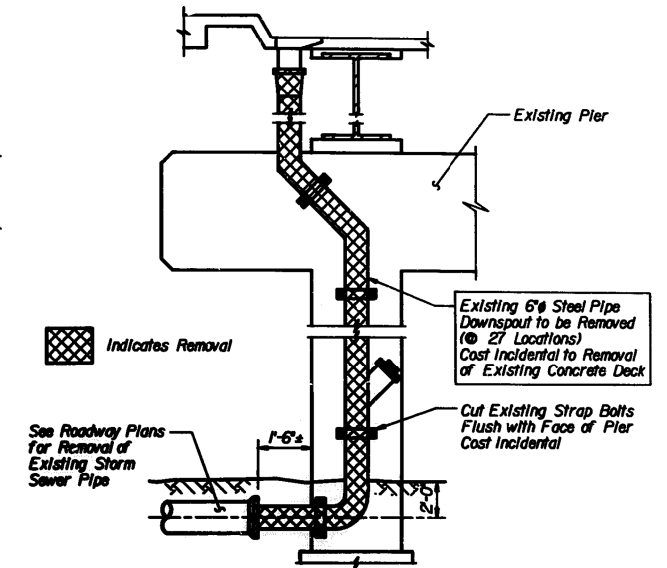
TOP VIEW OF FLANGE ONLY



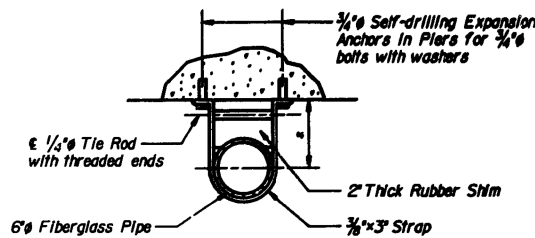
DRAINAGE SCUPPER



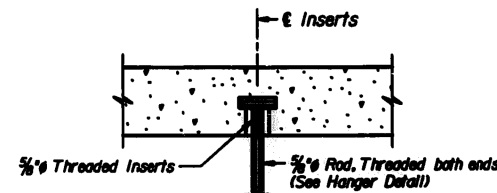
SECTIONS THRU DRAINAGE SCUPPER



REMOVAL OF EXISTING DRAINAGE SYSTEM



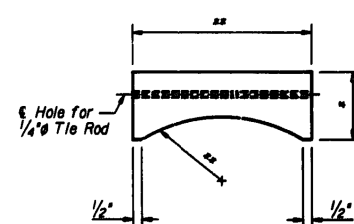
SECTION D-D



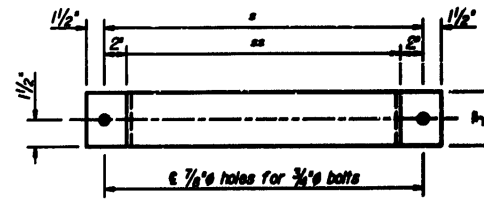
SLAB INSERT

Notes:

Bolts, studs, washers and nuts shall conform to the requirements of ASTM A307. The Grate, Frame and Downspout shall be galvanized after shop fabrication in accordance with AASHTO M311 & ASTM A385. All bolts, washers and nuts shall be galvanized in accordance with AASHTO M232. Cost of the Grate, Frame, Bolts, Washers and nuts including complete installation of Scupper will be paid for at the unit bid price each for "DRAINAGE SCUPPER (SPECIAL)".



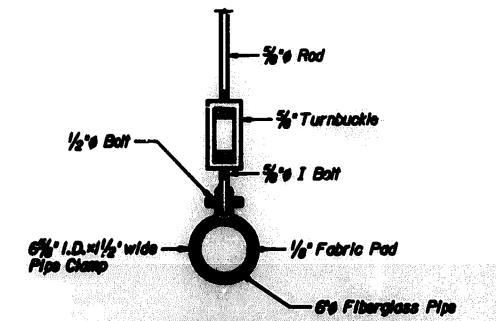
RUBBER SHIM



3/8" x 3" STRAP

* Dimensions as required by the pipe strap
** Dimensions as required by the pipe

DRAINAGE SYSTEM DETAILS



HANGER

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FILE: h:\mhc\p\pub\haronom.dwg
PROJECT: 1408270.CADD\Drawings\DOT - Offices\Drawings\1408270-ebv\drwg.dwg

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	DRAWN -	REVISED -
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PLOT DATE = 3/25/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

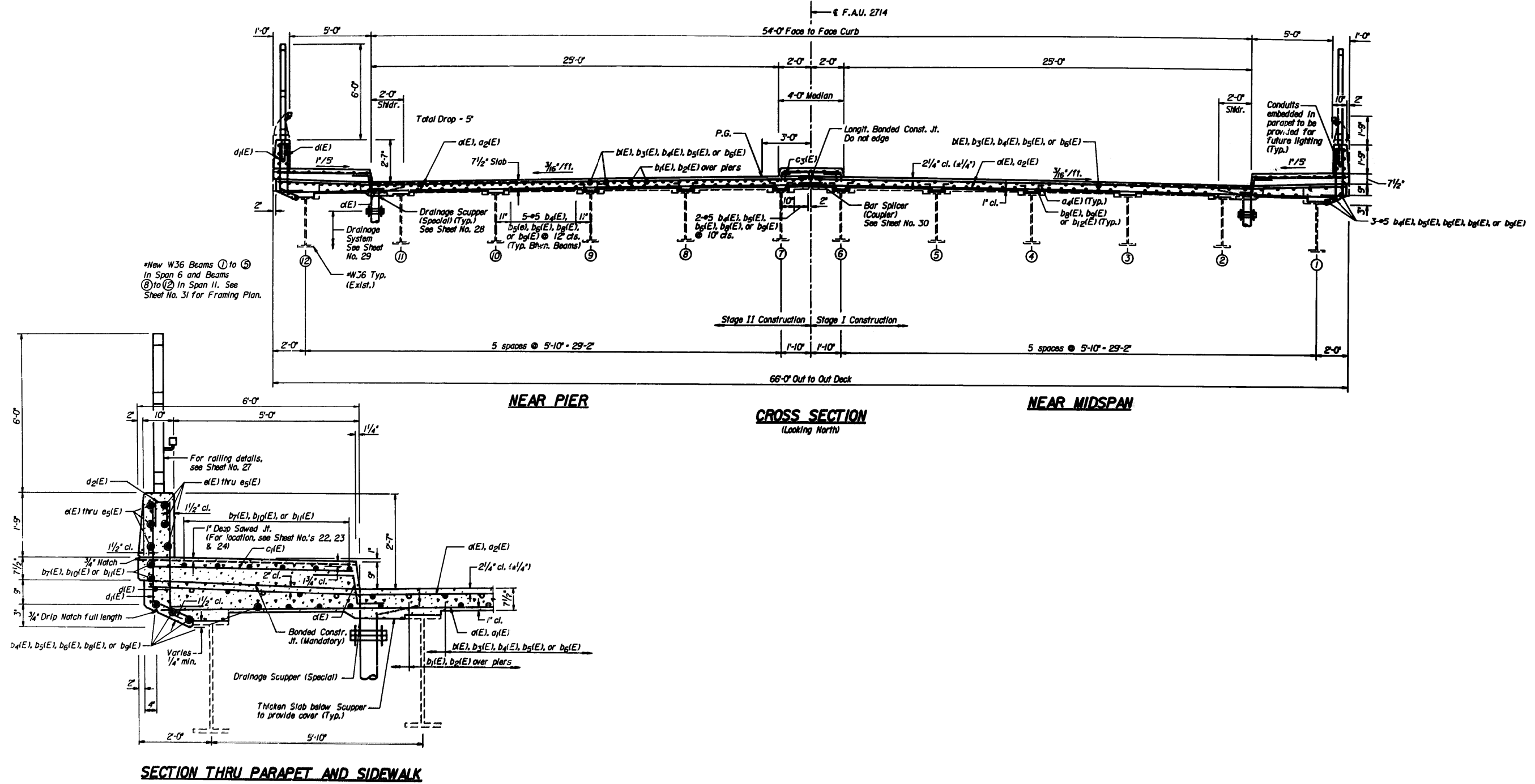
**DRAINAGE REPAIR PLAN
SN: 016-1011**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	24
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



*New W36 Beams ① to ⑤
In Span 6 and Beams
⑧ to ⑫ In Span 11. See
Sheet No. 31 for Framing Plan.

Conduits
embedded
in
parapet
to be
provided
for
future
lighting
(Typ.)

CROSS SECTION
(Looking North)

SECTION THRU PARAPET AND SIDEWALK

MODEL: Default
FILE: Model.ctb
C:\Program Files\Autodesk\AutoCAD 2010\Templates\acad.ctb
C:\Program Files\Autodesk\AutoCAD 2010\Templates\acad.ctb
C:\Program Files\Autodesk\AutoCAD 2010\Templates\acad.ctb

USER NAME = diaza	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

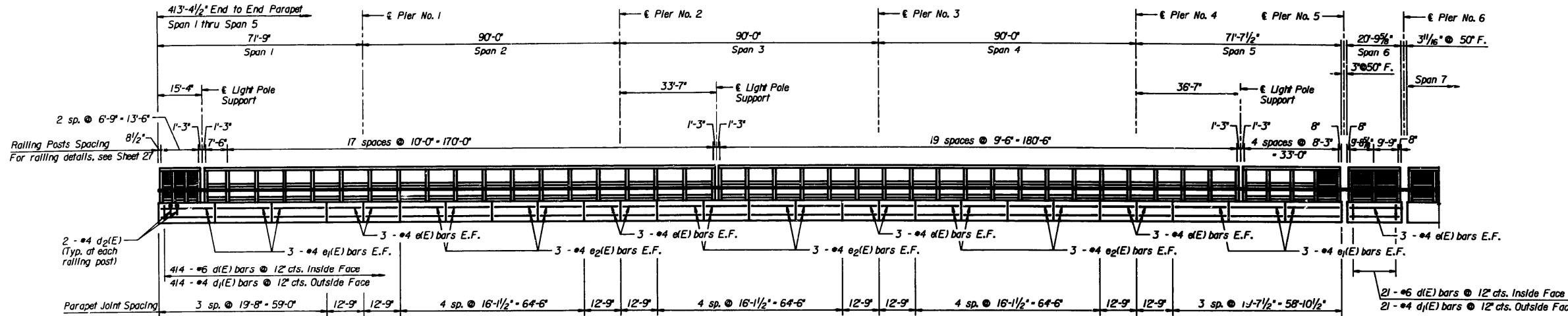
LOCATION 2: 25TH AVENUE OVER IHB
SN: 016-1011

SCALE:	SHEET 2	OF 5 SHEETS	STA.	TO STA.
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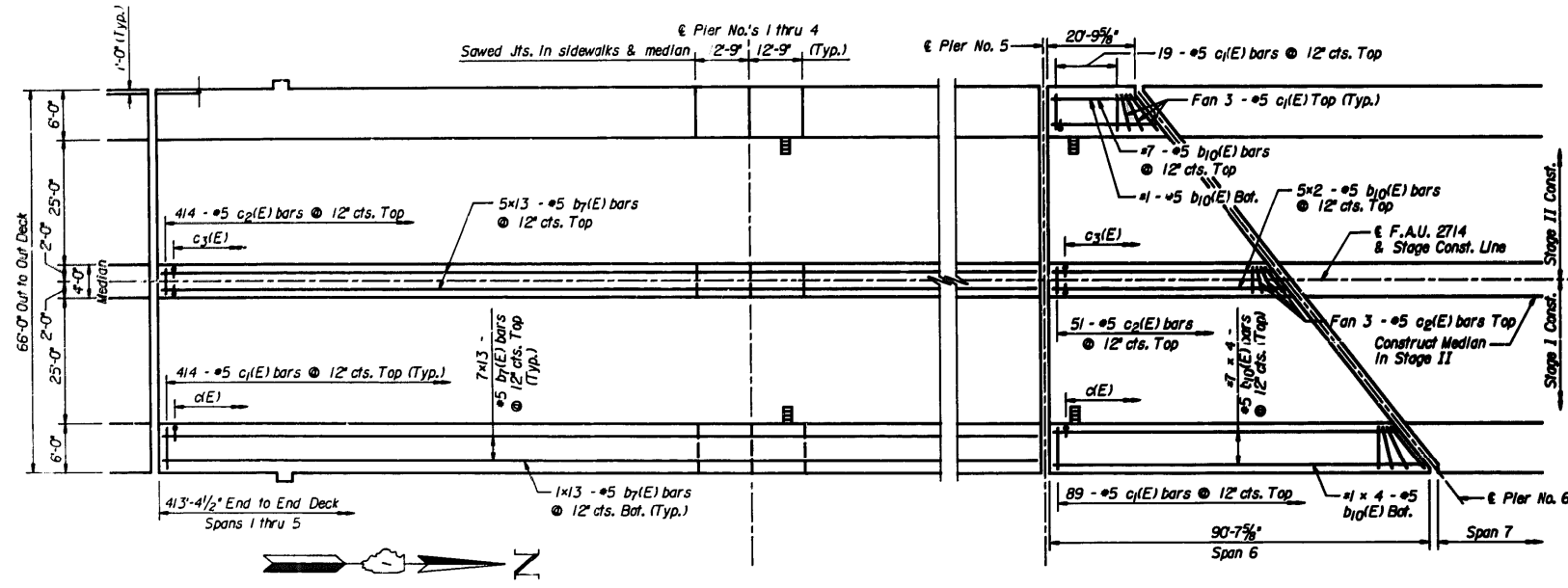
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	25
CONTRACT NO. 62K97				
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

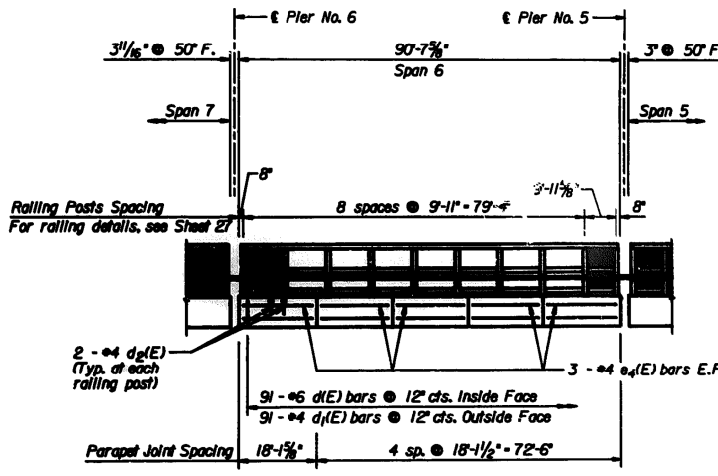
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



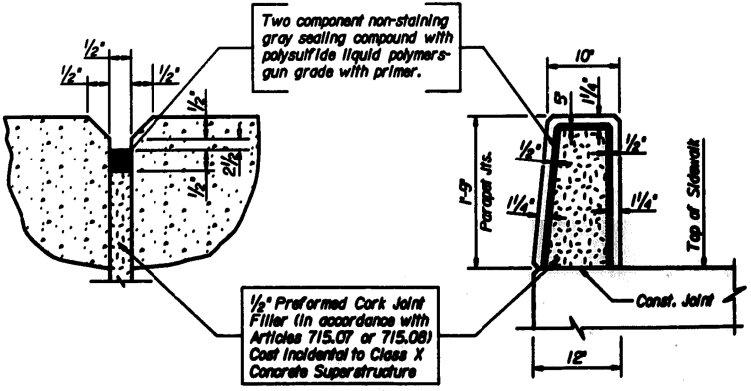
INSIDE ELEVATION OF WEST PARAPET
(East Parapet similar for Spans 1 thru 5)



PLAN - SIDEWALKS AND MEDIAN
(Spans 1 thru 6)
Minimum Bar Laps #5 bars - 2'-2"



INSIDE ELEVATION OF EAST PARAPET
(Span 6)



PARAPET JOINT DETAIL

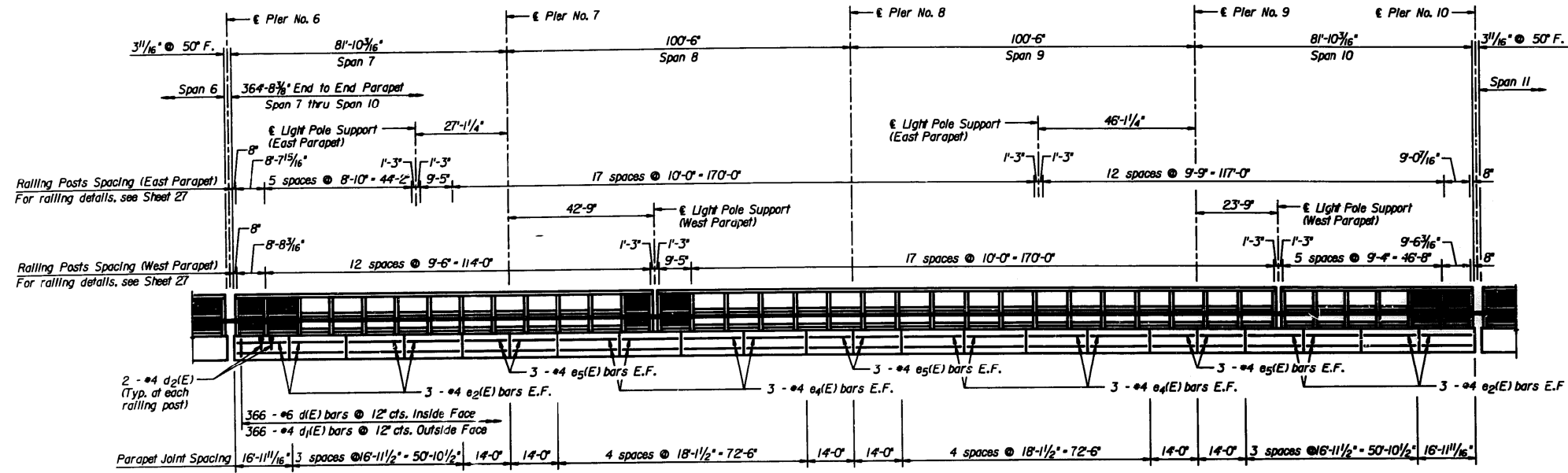
Notes: See Sheet No. 25 for Bill of Material and Light Pole Support Details.
Reinforcement bars designated (E) shall be epoxy coated.
See Sheet No. 21 for Sections thru Sidewalk and Median.
Bars Indicated thus: 3 x 2 - #5 etc. Indicates 3 lines of bars with 2 lengths per line.

* Order b1(E) bars full length. Cut to fit skew and use remainder of bars in same spans, Span 11.

MODEL: Default
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 PLOT DATE = 3/25/2020
 PLOT SCALE = 100,0000' / in.
 DRAWN -
 CHECKED -
 DATE -
 USER NAME = diaza
 DESIGNED -
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 LOCATION 2: 25TH AVENUE OVER IHB
 SN: 016-1011
 SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.
 VAR. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 2020-026-BR VARIOUS 58 26
 ILLINOIS FED. AID PROJECT CONTRACT NO. 62K97

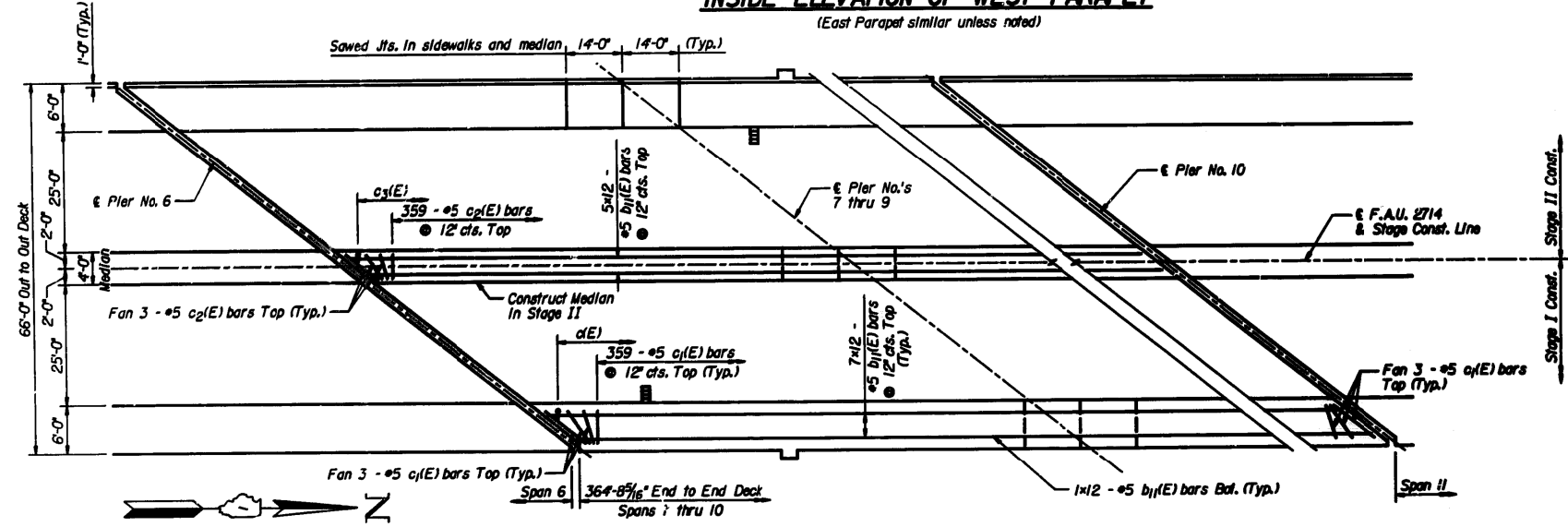
FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



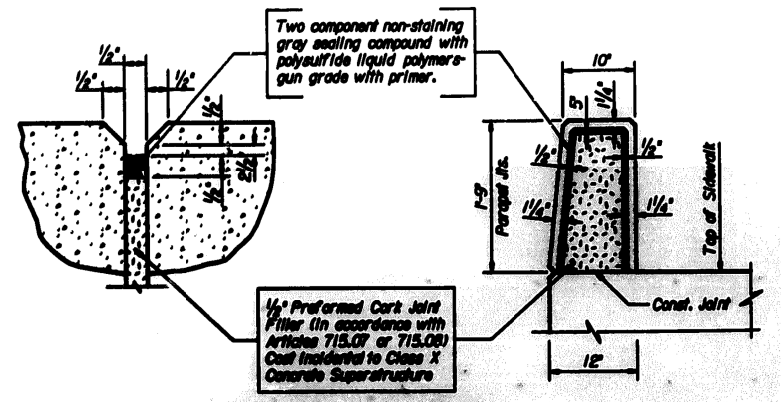
INSIDE ELEVATION OF WEST PARAPET

(East Parapet similar unless noted)



PLAN - SIDEWALKS AND MEDIAN

(Spans 7 thru 10)
Minimum Bar Laps #5 bars = 2'-2"



PARAPET JOINT DETAIL

Notes: See Sheet No. 25 for Bill of Material and Light Pole Support Details.
Reinforcement bars designated (E) shall be epoxy coated.
See Sheet No. 21 for Sections thru Sidewalk and Median.
Bars indicated thus: 3 x 2 - #5 etc. indicates 3 lines of bars with 2 lengths per line.

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

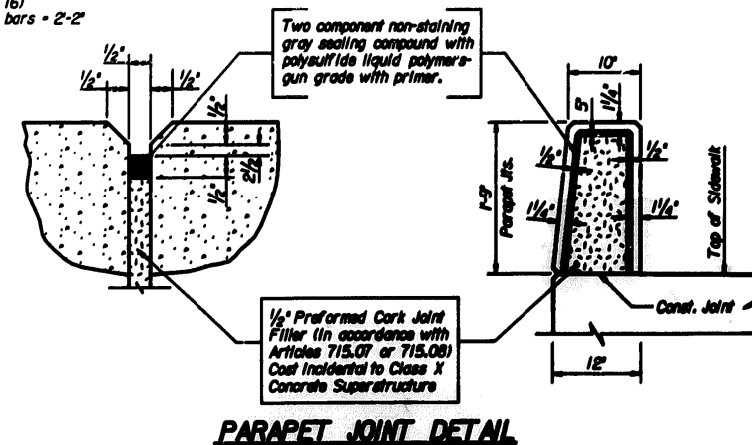
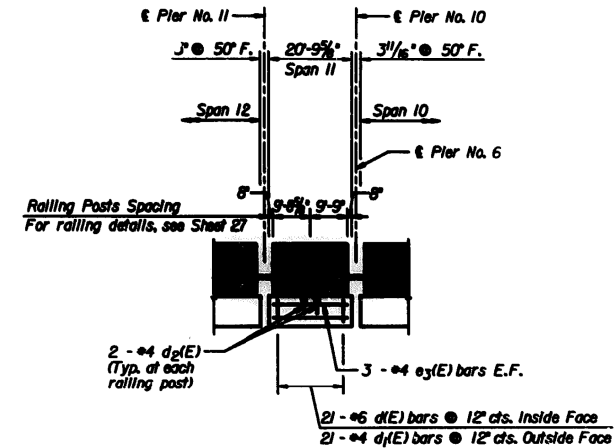
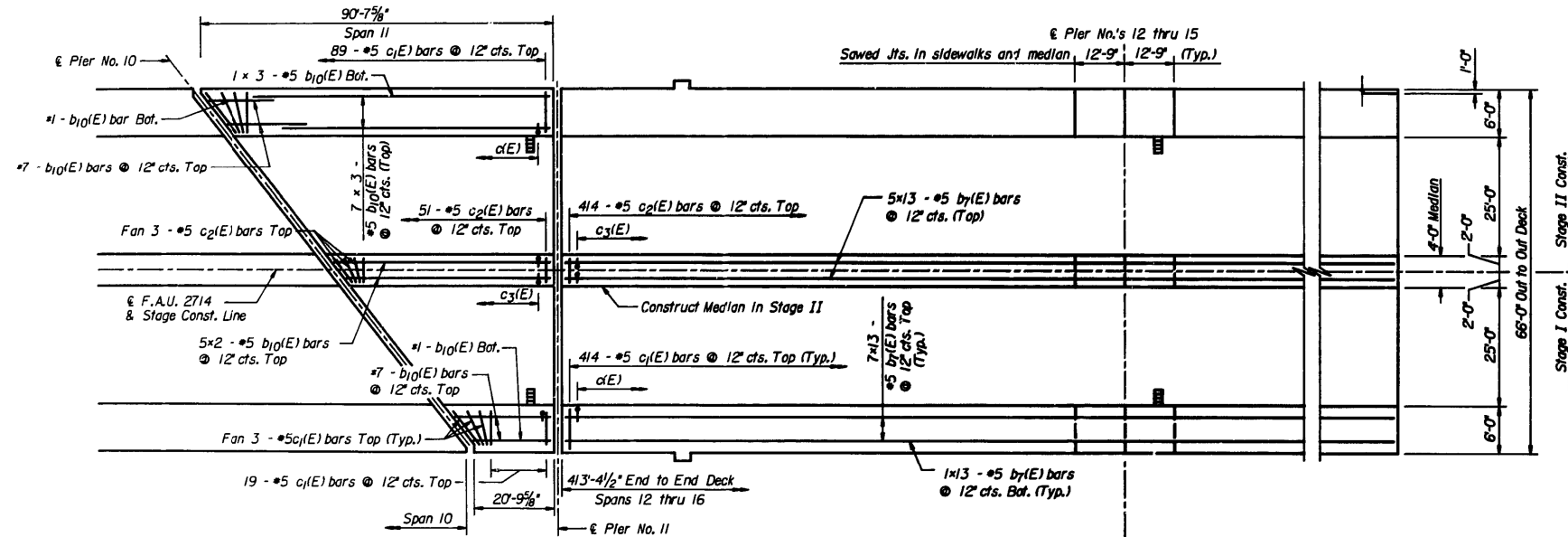
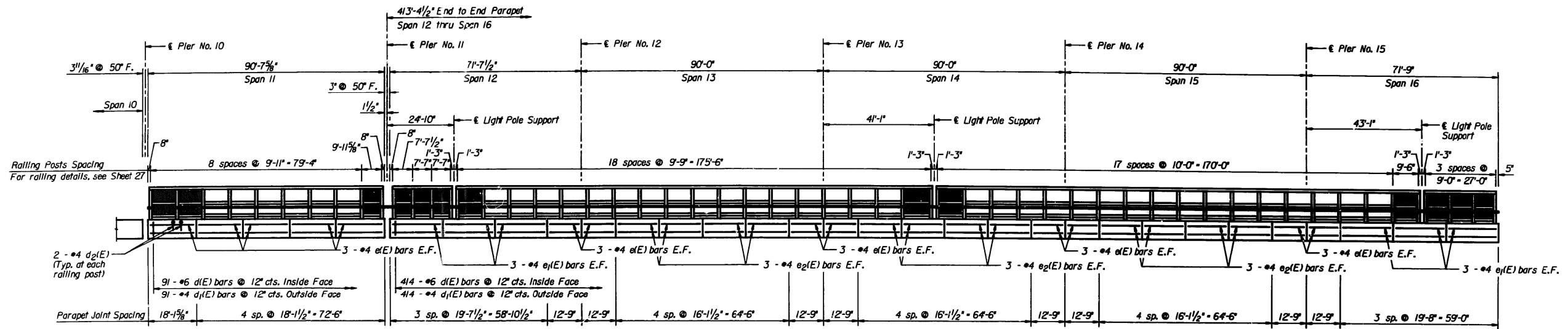
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2: 25TH AVENUE OVER IHB
SN: 016-1011

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	27
CONTRACT NO. 62K97				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Notes: See Sheet No. 25 for Bill of Material and Light Pole Support Details.
 Reinforcement bars designated (E) shall be epoxy coated.
 See Sheet No. 21 for Sections thru Sidewalk and Median.
 Bars indicated thus: $3 \times 2 - \#5$ etc. indicates 3 lines of bars with 2 lengths per line.

MODEL: Default
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 PROJECT: 2020-026-BR-05
 PLOT DATE: 3/25/2020

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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 2: 25TH AVENUE OVER IHB
 SN: 016-1011

SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	28
				CONTRACT NO. 62K97
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

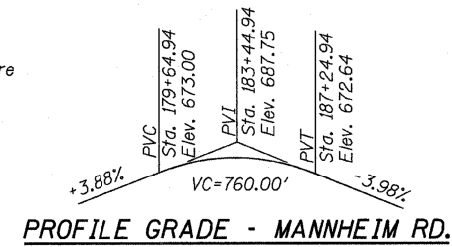
Bench Mark: "X" Cut on Top Row of N.W. bolt of Fire Hydrant W. Side of Mannheim Road and first Fire Hydrant S. of Bridge over RR Tracks and Franklin Ave.
 Existing Structure: No. 016-0335. Built as US 12/20/45 (Mannheim Rd.) Sec. 465 VB-R-1 in 1940. Structure widened and rehabilitated in 1978. The superstructure consists of a R.C. deck 1250' long by 100.1' wide supported on 19 spans of Rolled Girder and riveted Plate Girder. Traffic shall be maintained during Structure rehabilitation by staged construction.
 Salvage Materials: None.

DESIGN SPECIFICATIONS
 2002 AASHTO Std. Spec. for Highway Bridges

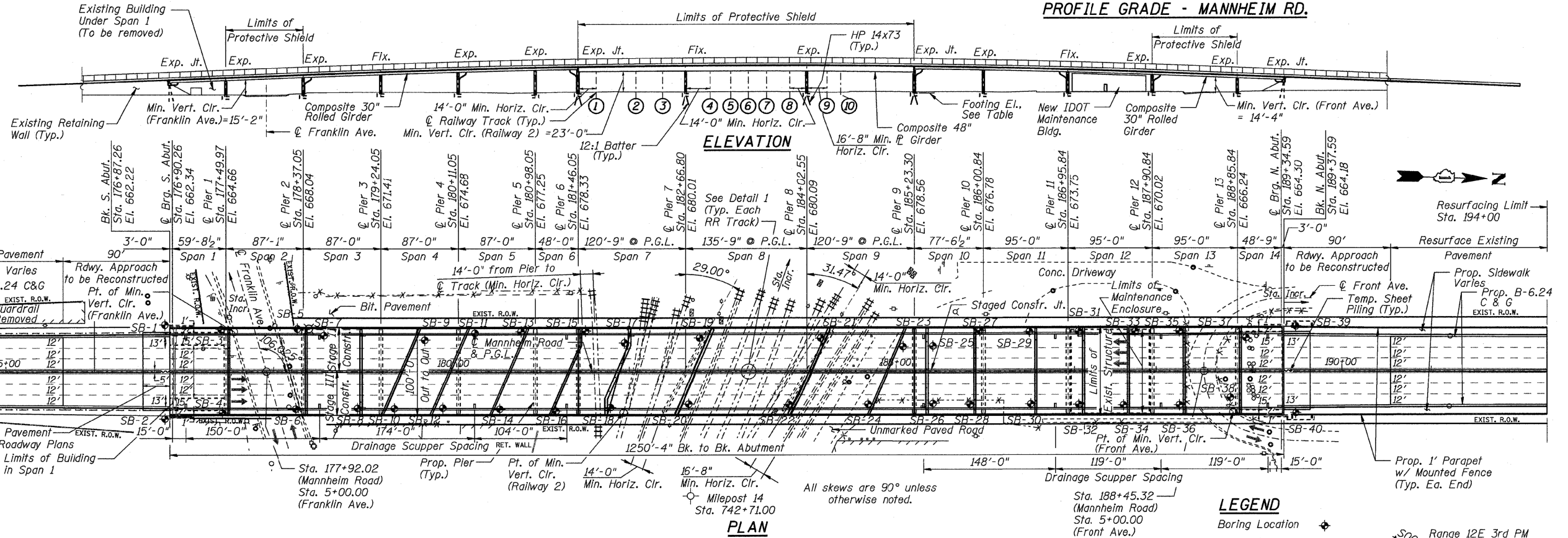
DESIGN STRESSES
 $f'_c = 3.5 \text{ ksi}$ (Concrete)
 $f_y = 50 \text{ ksi}$ (M270 Gr. 50 Struct. Steel)
 $f_y = 60 \text{ ksi}$ (Reinforcement)

SEISMIC DATA
 Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.04g
 Site Coefficient (S) = 1.0

LOADING HS20-44
 Allow 50 Lbs/Ft² for future wearing surface.

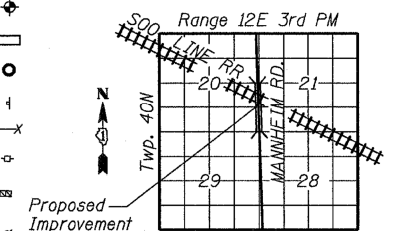


Pier	Approx. Bot. Ftg. El.
1	640.5
2	640.5
3	642
4	640.5
5	641
10	643
11	643
12	643
13	640.5



LEGEND

- Boring Location
- Drainage Scupper
- Manhole
- Street Sign
- Fence
- Power Pole
- Switch Control Box
- Fire Hydrant
- Gas Valve



NOTES

- Elevations "B" and "D" represent top of rail elevations at approximately the fascia line of each side of the proposed new structure.
- No deck drains will be permitted in the spans over tracks or within 10' of cross arms of a railroad pole line.
- Conduits to be provided in sidewalk for future bridge lighting.

MODEL: Default
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	DRAWN -	REVISED -
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PLOT DATE = 3/25/2020	DATE -	REVISED -

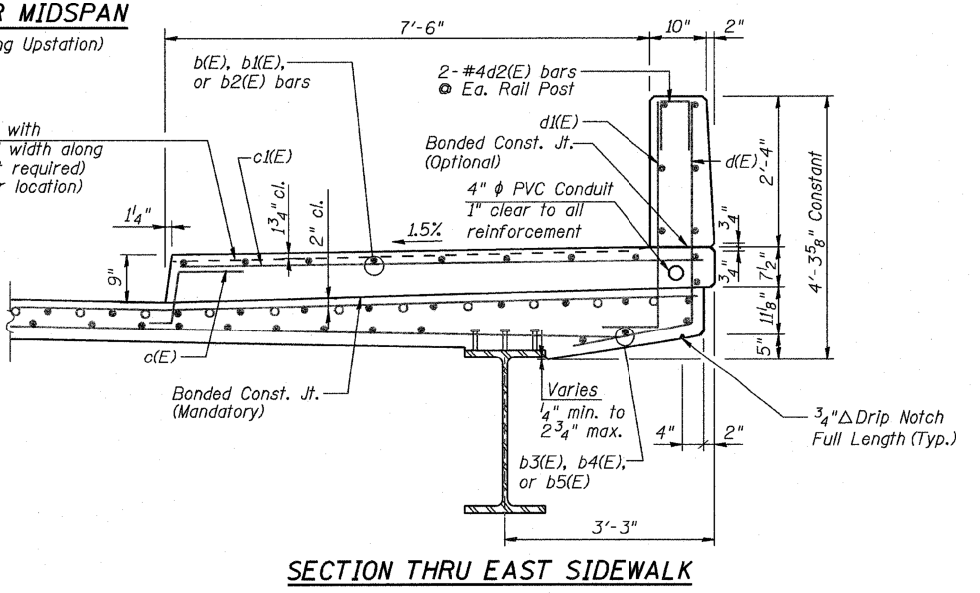
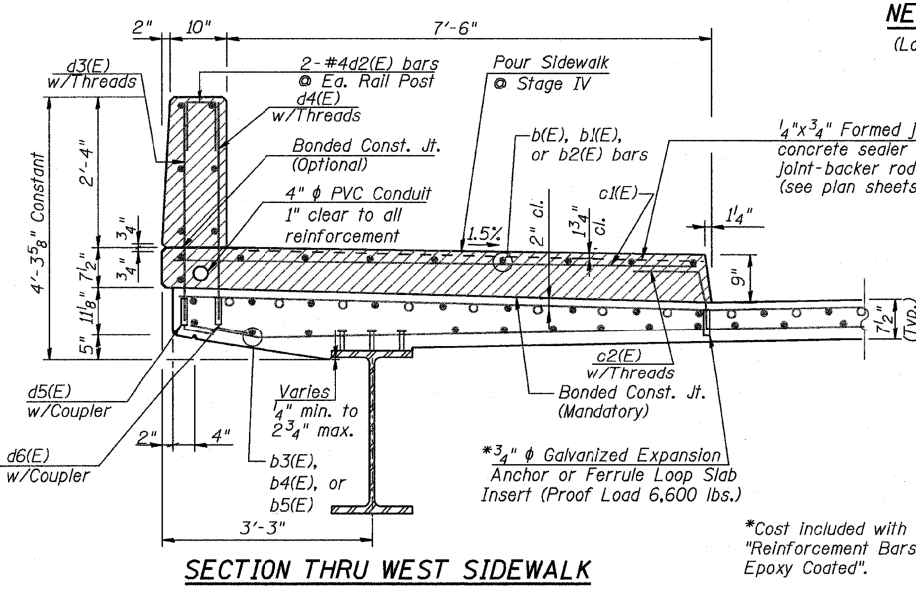
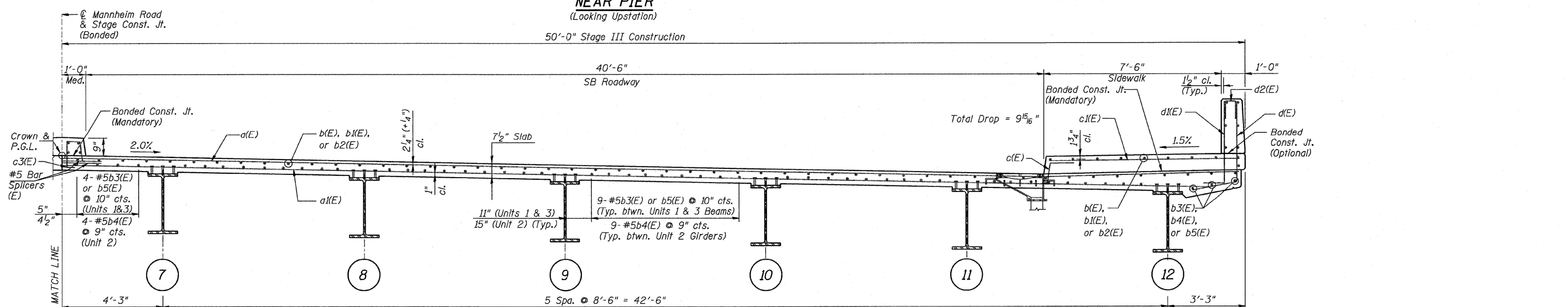
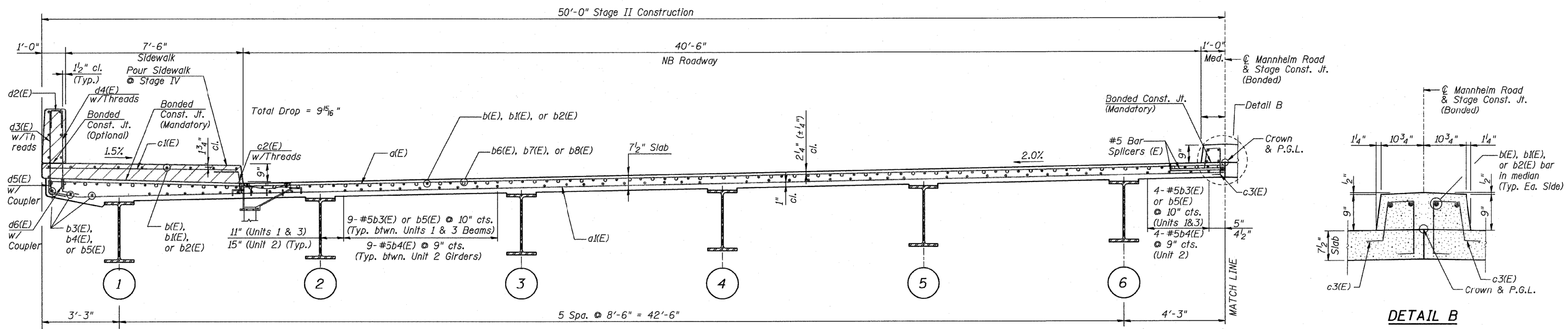
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION 3: US 12/45 OVER METRA, CP, RDS
 SN: 016-2815**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	29
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



- Notes:**
1. Work this sheet with Sheets S15-S19.
 2. See Sheet S20 for bar splicer details.
 3. See Sheet S21-S22 for expansion joint details.
 4. See Sheet S23 for bridge fence railing details.
 5. See Sheets S44-S45 for drainage scupper details.
 6. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 7. Cut longitudinal reinforcement to clear scuppers.

MODEL: Default
 FILE: \\nas01\projects\140820\CADD\Drawings\140820-ehy\bridge.dgn
 PROJECT: 140820\CADD\Drawings\140820-ehy\bridge.dgn
 DATE: 3/25/2020

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

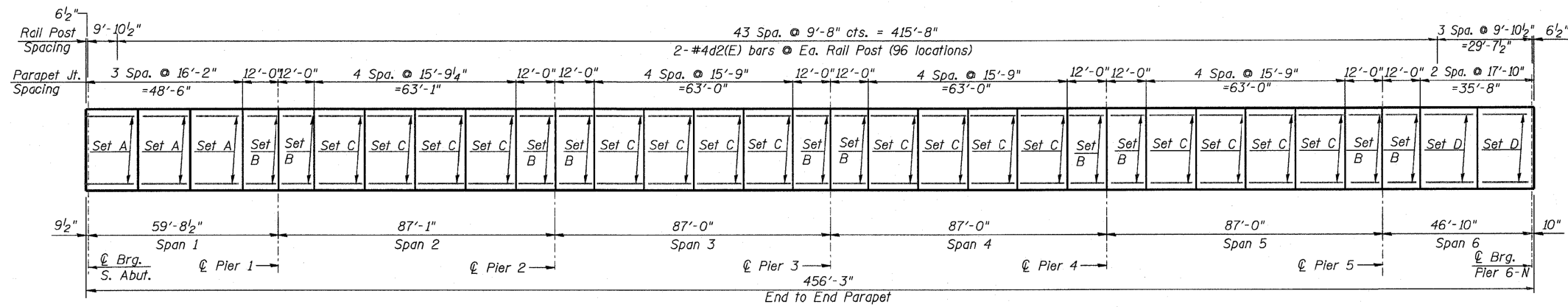
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 3: US 1245 OVER METRA, CP, RDS
SN: 016-2815

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

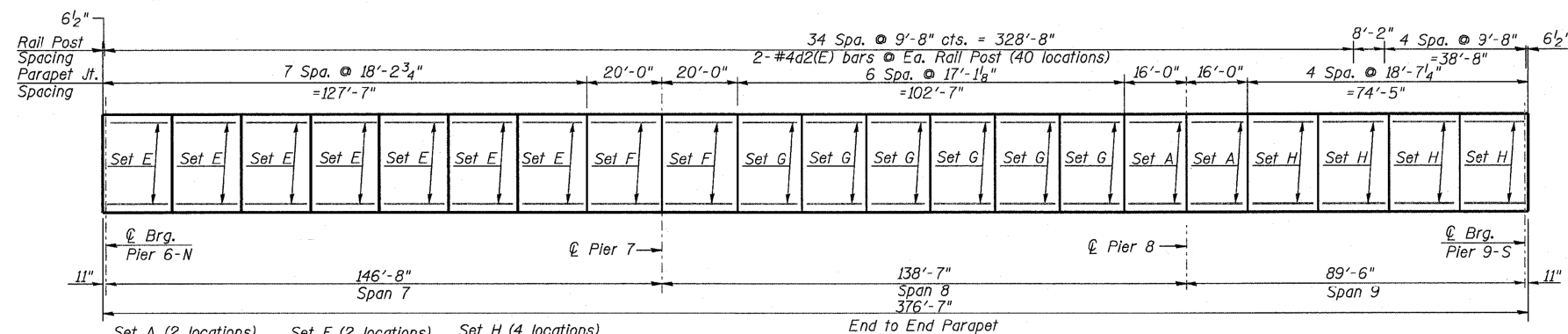
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	30
				CONTRACT NO. 62K97
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY



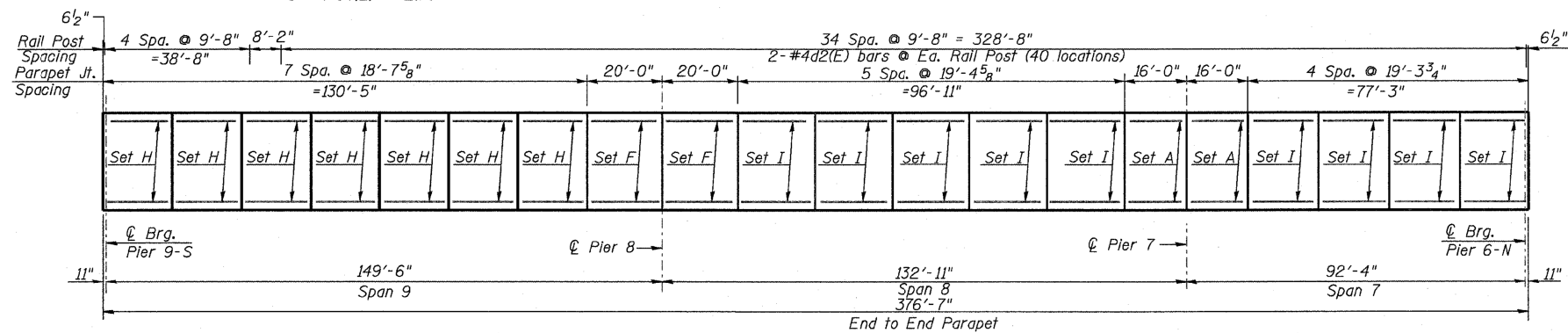
Set A (6 locations) 3-#4 e3(E) @ E.F.
 Set B (20 locations) 3-#4 e(E) @ E.F.
 Set C (32 locations) 3-#4 e2(E) @ E.F.
 Set D (4 locations) 3-#4 e6(E) @ E.F.

INSIDE ELEVATION OF WEST PARAPET (UNIT 1)
 (East Parapet Opposite Hand)



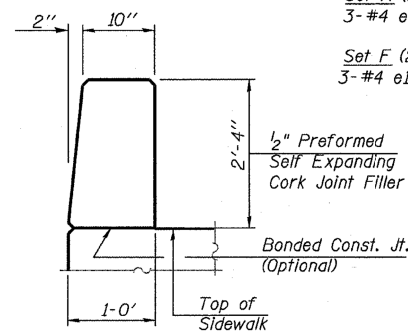
Set A (2 locations) 3-#4 e3(E) @ E.F.
 Set E (7 locations) 3-#4 e7(E) @ E.F.
 Set F (2 locations) 3-#4 e10(E) @ E.F.
 Set G (6 locations) 3-#4 e4(E) @ E.F.
 Set H (4 locations) 3-#4 e8(E) @ E.F.

INSIDE ELEVATION WEST PARAPET (UNIT 2)



Set A (2 locations) 3-#4 e3(E) @ E.F.
 Set F (2 locations) 3-#4 e10(E) @ E.F.
 Set H (7 locations) 3-#4 e8(E) @ E.F.
 Set I (9 locations) 3-#4 e9(E) @ E.F.

INSIDE ELEVATION EAST PARAPET (UNIT 2)



PARAPET JOINT DETAILS

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PLOT DATE = 3/25/2020	DATE -	REVISED -

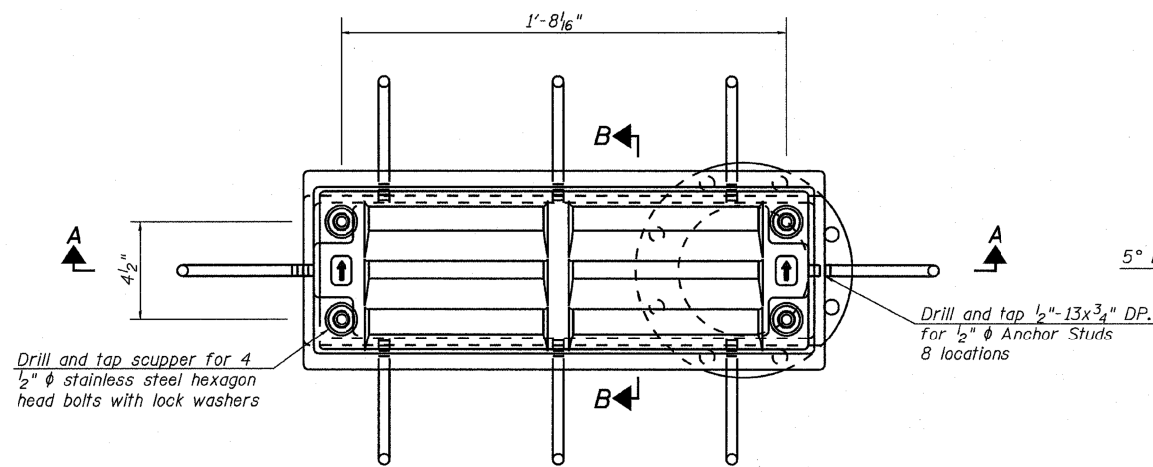
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION 3: US 1245 OVER METRA, CP, RDS
 SN: 016-2815**

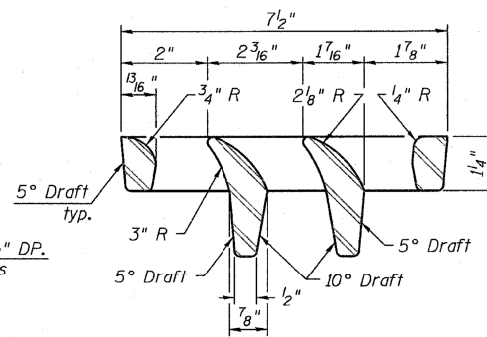
SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	31
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

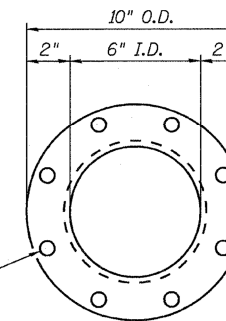


PLAN

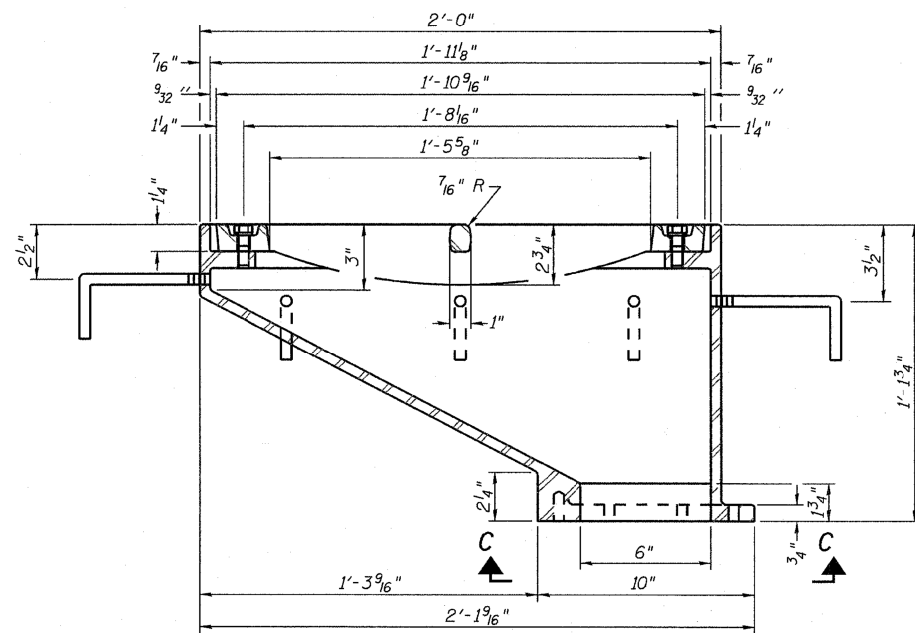


VANE GRATE DETAIL

8-9/16" φ holes on an 8-3/4" φ bolt circle

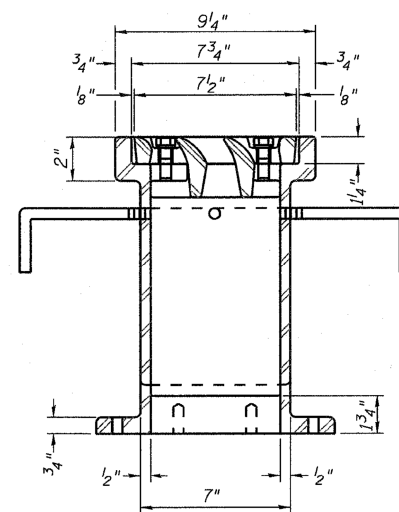


VIEW C-C



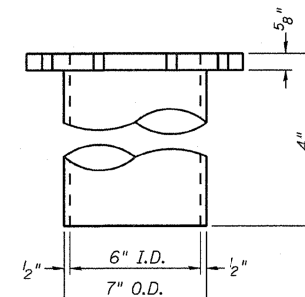
SECTION A-A

See sheet of for scupper location relative to parapet.

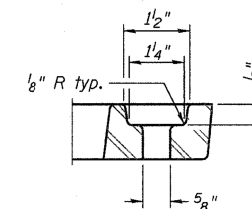


SECTION B-B

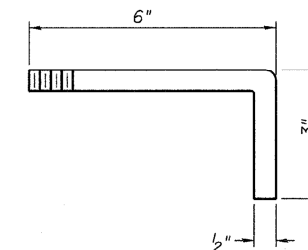
Drill and tap 8 holes for 1/2"-13 bolts on an 8-3/4" φ bolt circle. (2 blind holes are 1 1/4" deep, 6 thru holes)



DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

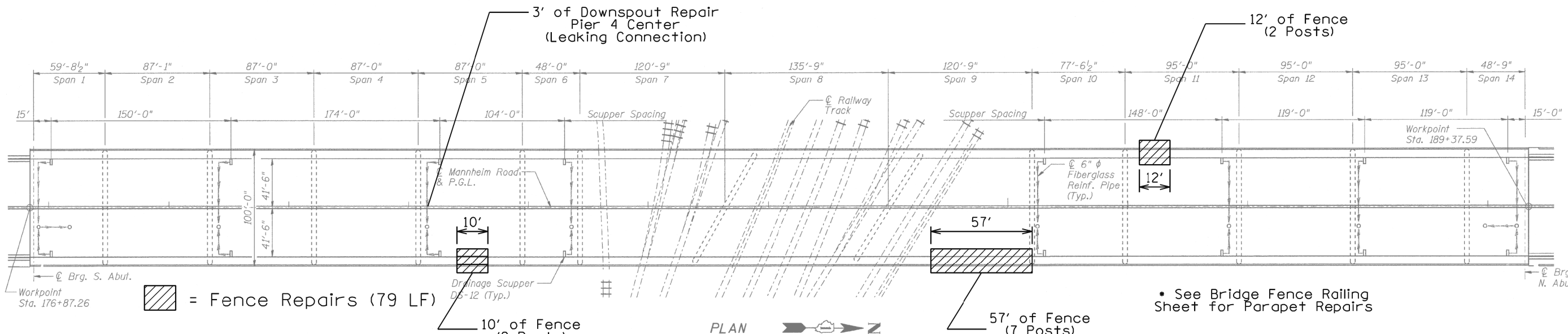
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FILE: Model: p:\pub\planroom.dwg
PROJECT: 1408270\CADD\Drawings\DOT - Offices\Drawings\1408270-ebv\drwg.dwg

USER NAME = diazia	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

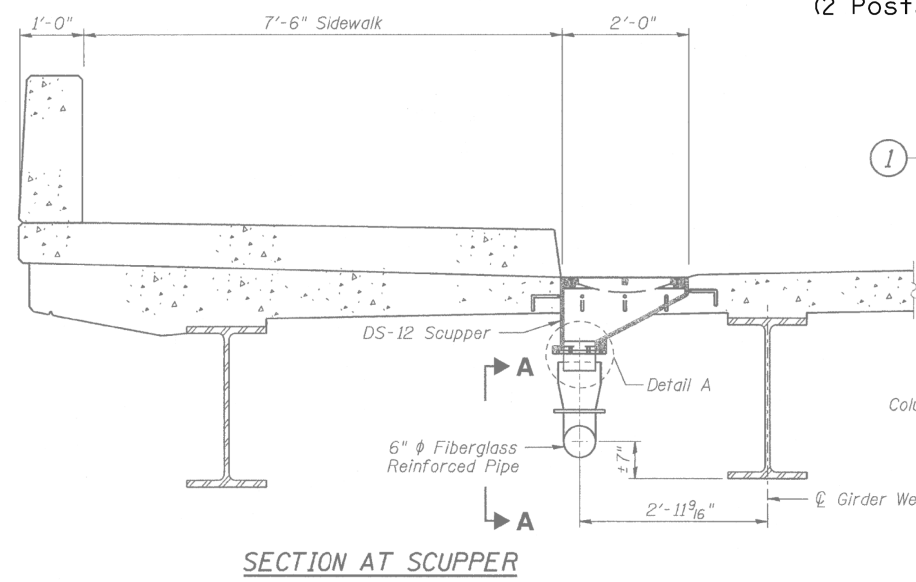
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 3: US 1245 OVER METRA, CP, RDS	
SN: 016-2815	
SCALE:	SHEET 4 OF 4 SHEETS STA. TO STA.

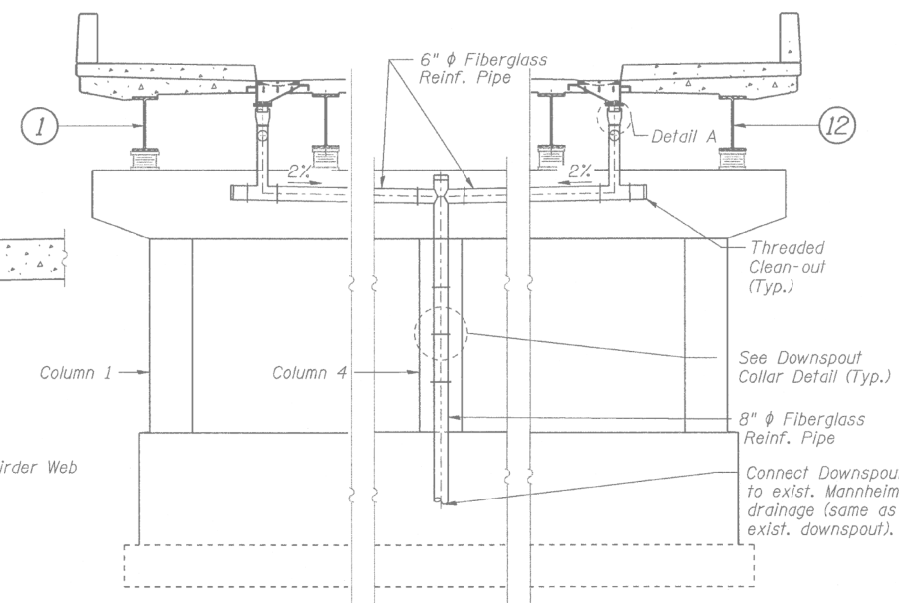
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	32
CONTRACT NO. 62K97				
ILLINOIS		FED. AID PROJECT		



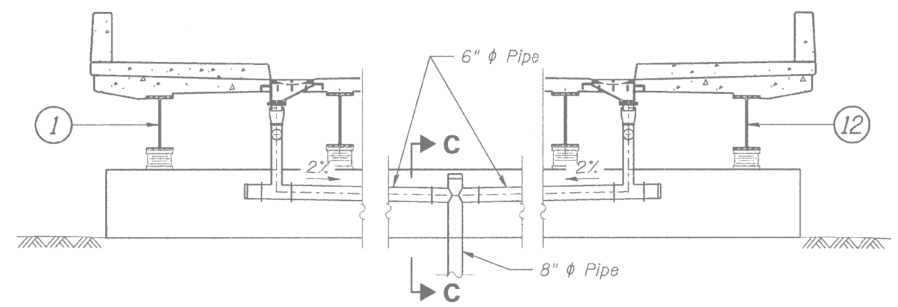
• See Bridge Fence Railing Sheet for Parapet Repairs



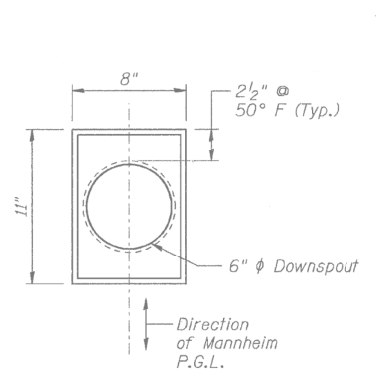
SECTION AT SCUPPER



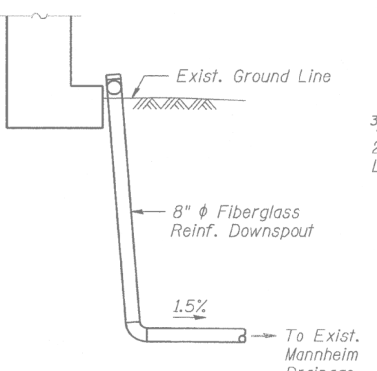
ELEVATION AT PIER FACE (TYP.)



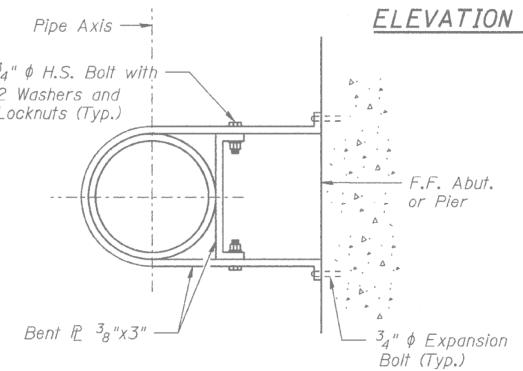
ELEVATION AT ABUT. FACE (TYP.)



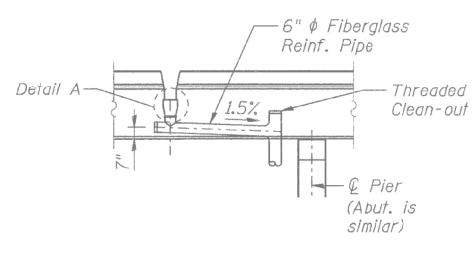
SECTION B-B



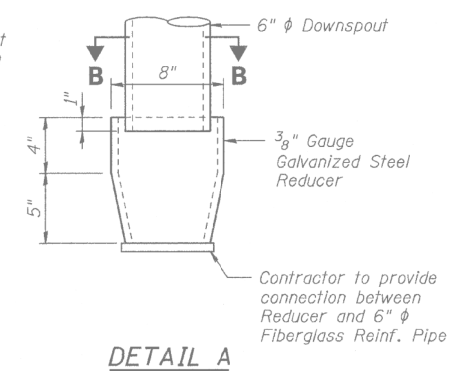
SECTION C-C
Typical connection of Abutment downspout to exist. Mannheim drainage



DOWNSPOUT COLLAR DETAIL



VIEW A-A



DETAIL A

Notes:

1. Scuppers shall be located clear of all diaphragms.
2. See Sheet S45 for drainage scupper details.
3. Cost of fiberglass reinforced pipes with all supports, fillings, connections, and cleanouts to be included with "Drainage System".

BILL OF MATERIALS

FENCE REMOVAL	FOOT	79
BRIDGE FENCE RAILING	FOOT	79
BRIDGE DRAINAGE SYSTEM REPAIR	FOOT	3

MODEL: Default
FILE: A:\work\proj\pub\rooms.dwg
PROJECT: 140270\CADD\Drawings\DOT - Offices\Drawings\140270-ebv\drain.dwg

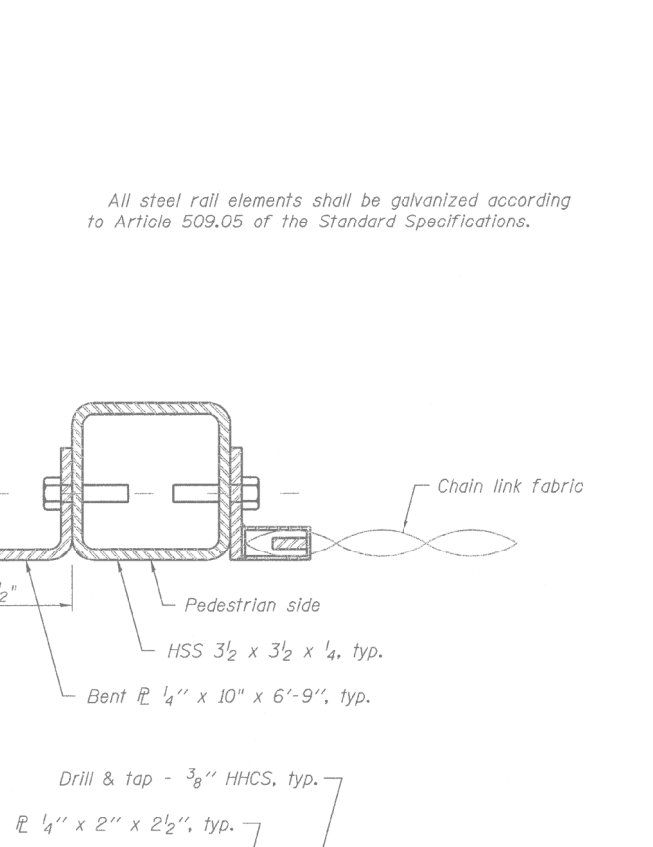
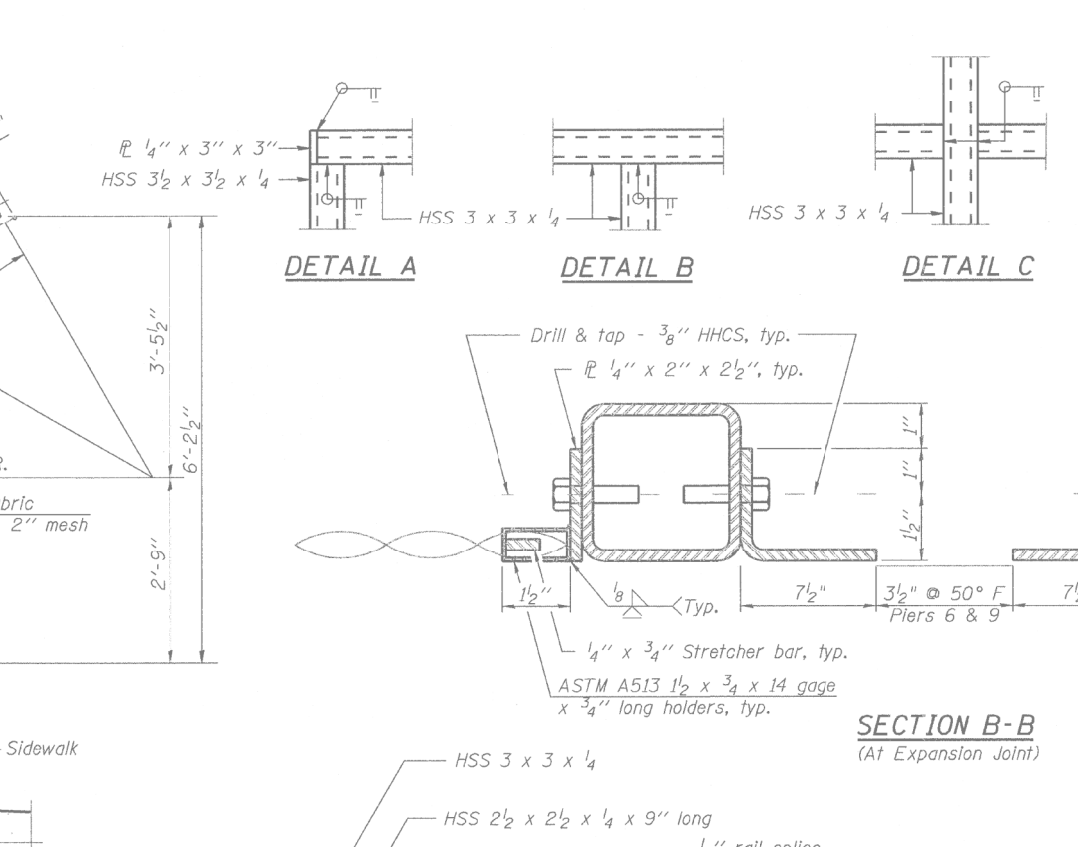
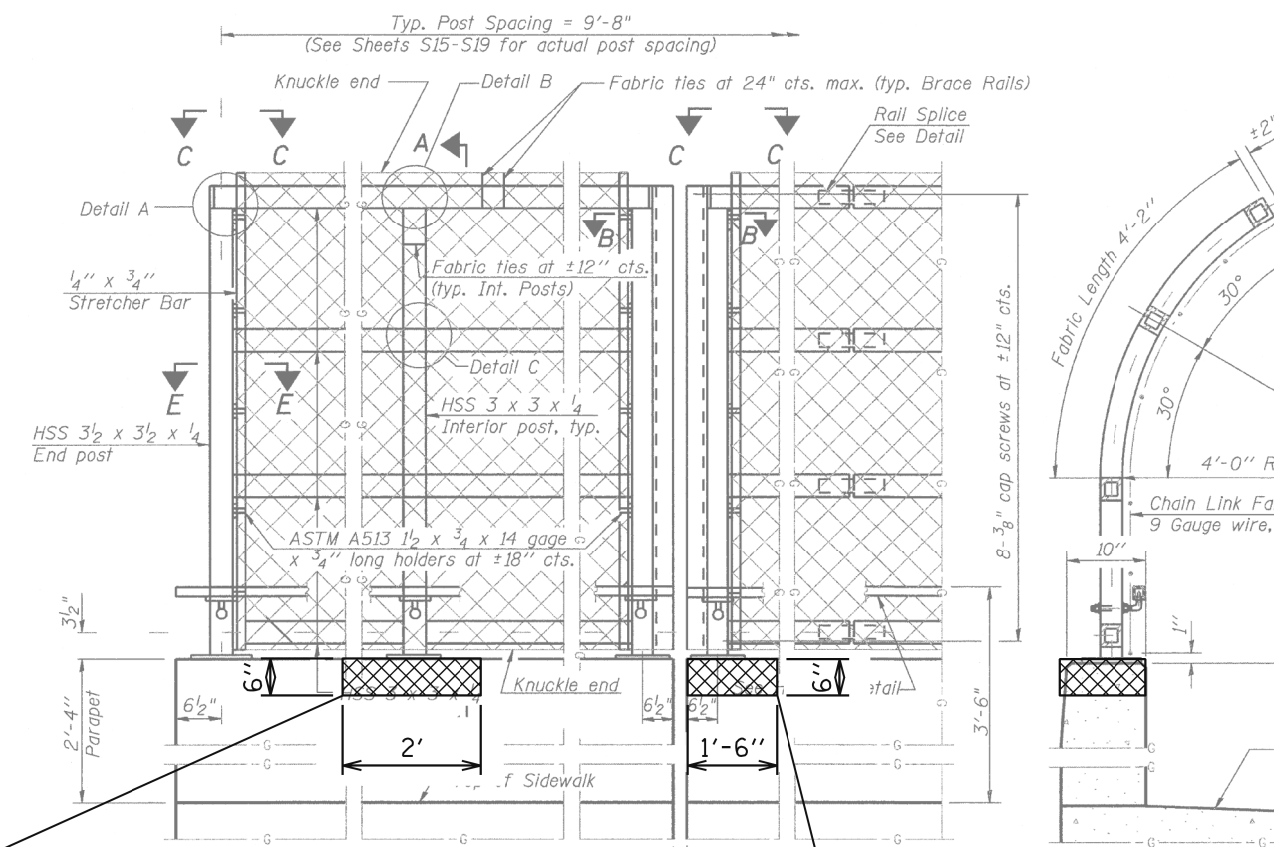
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PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE & FENCE REPAIRS
SN: 016-2815**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	33
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				



All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

Concrete Repair Typ. at Damaged Parapet

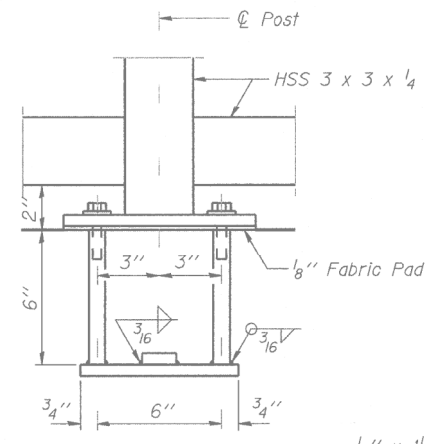
ELEVATION (Inside Face)

Concrete Repair at Pier 9 Joint

SECTION A-A

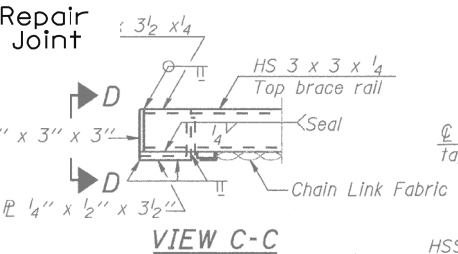
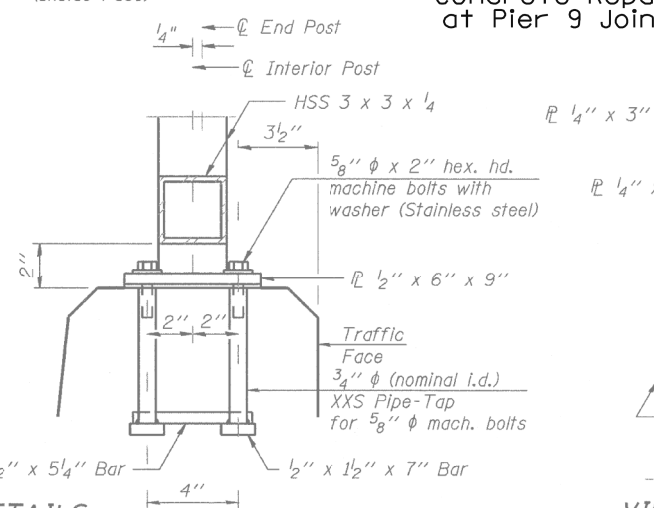
SECTION B-B (At Expansion Joint)

SECTION E-E

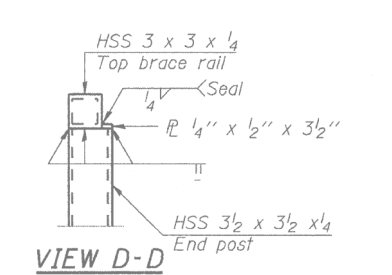


ANCHOR BOLT DETAILS

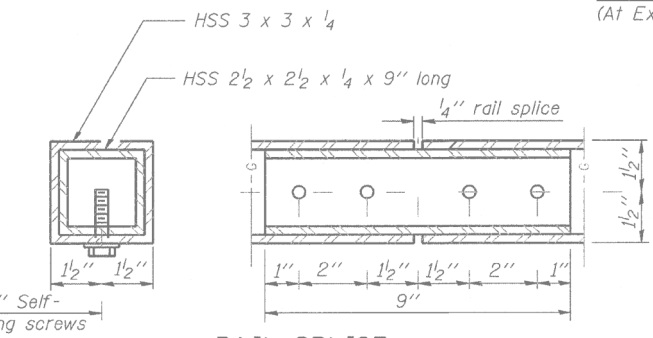
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8\"/>



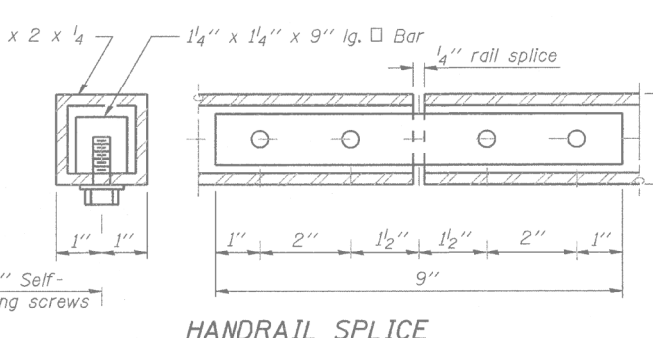
VIEW C-C



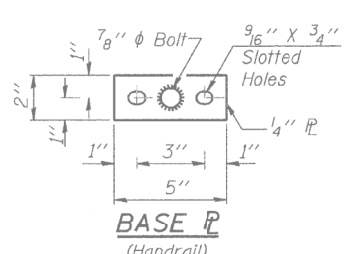
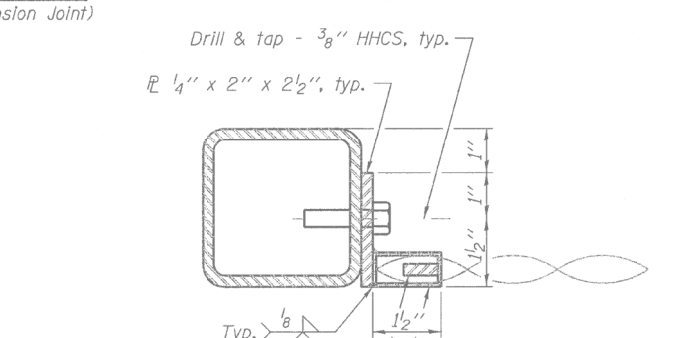
VIEW D-D



RAIL SPLICE

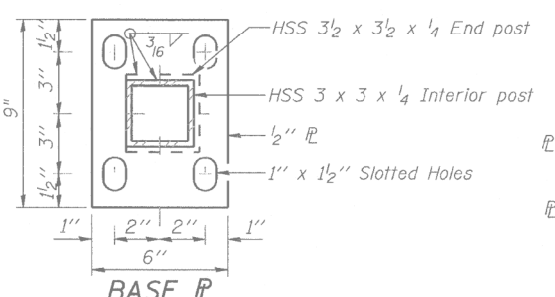


HANDRAIL SPLICE

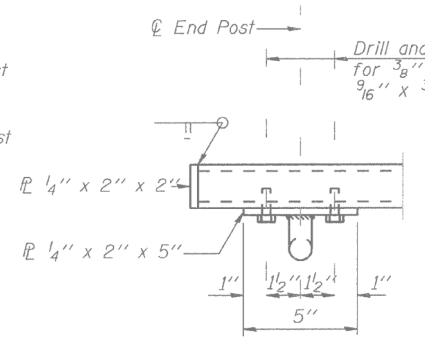


BASE PLATE (Handrail)

= CONCRETE REMOVAL
 = CONCRETE SUPERSTRUCTURE



BASE PLATE



HANDRAIL DETAIL

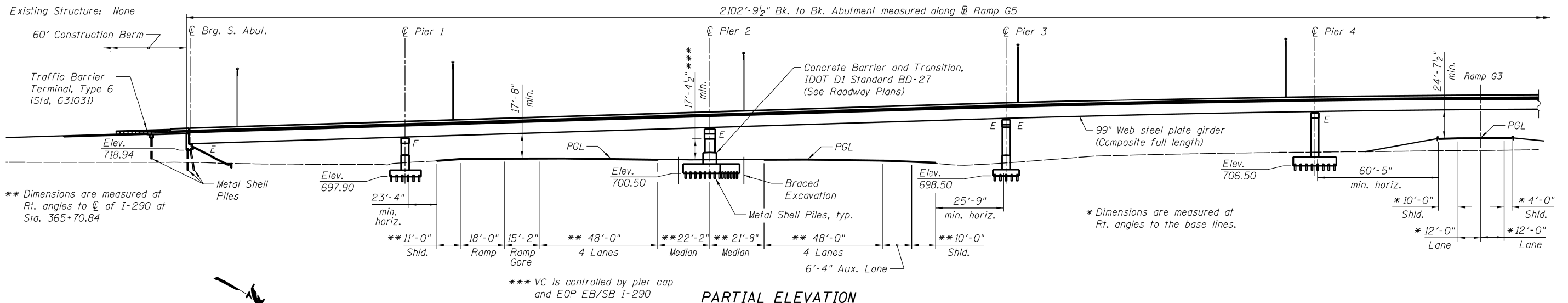
BILL OF MATERIALS

CONCRETE REMOVAL	CUBIC YARD	1
CONCRETE SUPERSTRUCTURE	CUBIC YARD	1

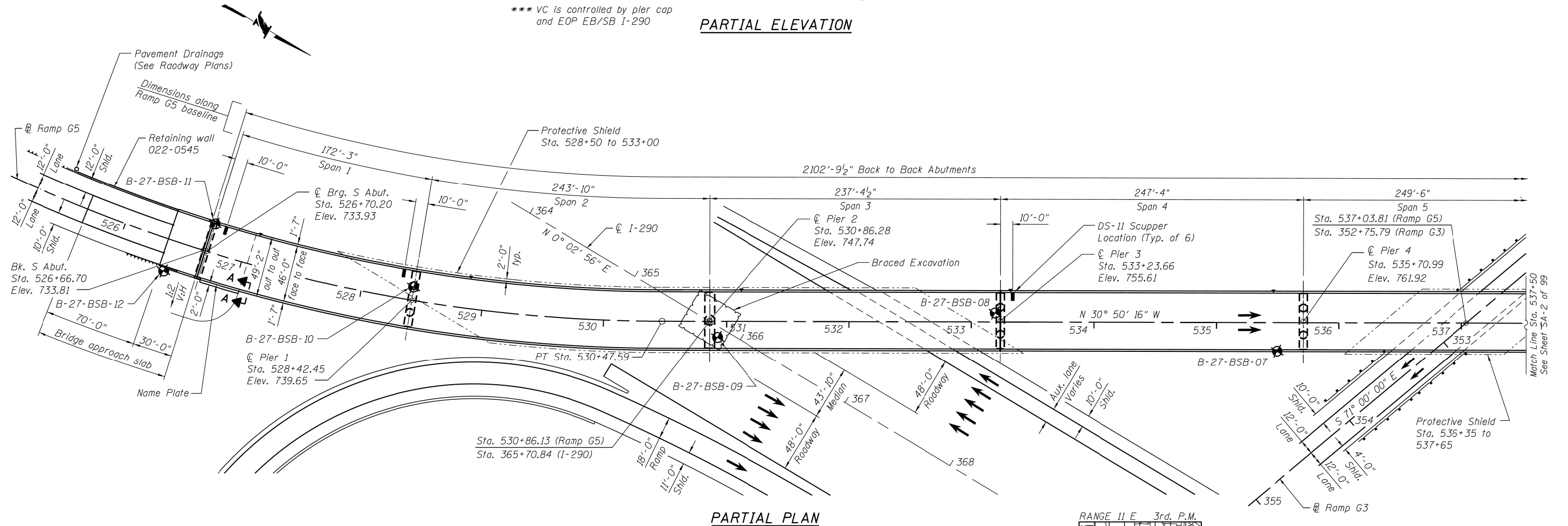
FOR INFORMATION ONLY

Bench Mark: BM R, X cut in the S.E. flange bolt of hydrant at the southwest corner of Route 53 (Rohwing Rd.) and Hamilton Parkway. Elev. 737.39 NAVD88

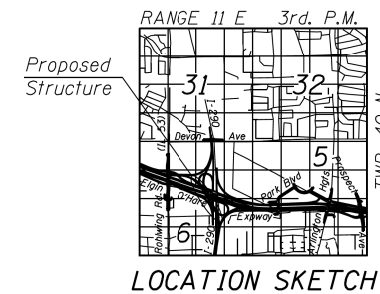
Existing Structure: None



PARTIAL ELEVATION



PARTIAL PLAN



GENERAL PLAN & ELEVATION-I
RAMP G5 OVER I-290 & ELGIN O'HARE
SECTION
DUPAGE COUNTY
STATION 530+86.13
STRUCTURE NO. 022-0534

MODEL: Default
 FILE: \\blake.fox.dupagecounty.gov\pub\blake\pww\DOT\Documents\DOT_Office\blake\1\Projects\0140820\CADData\Design\1\0820-ely.dwg

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

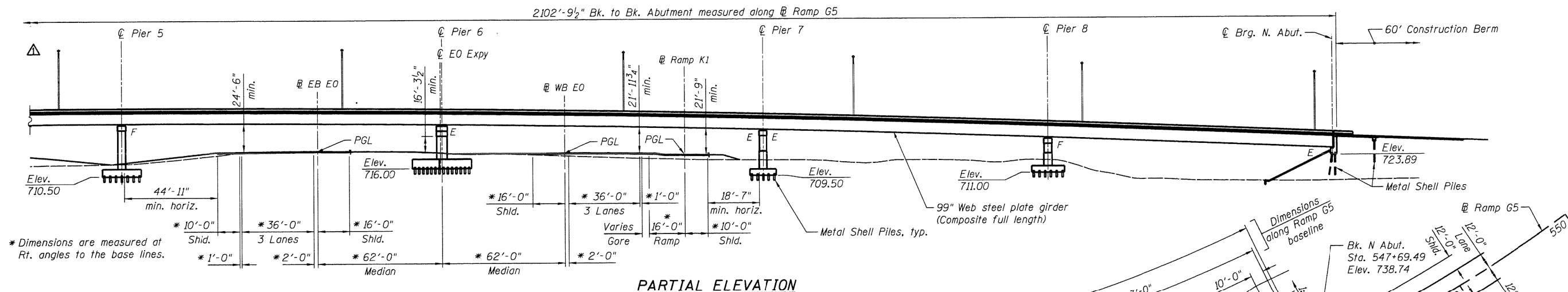
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534

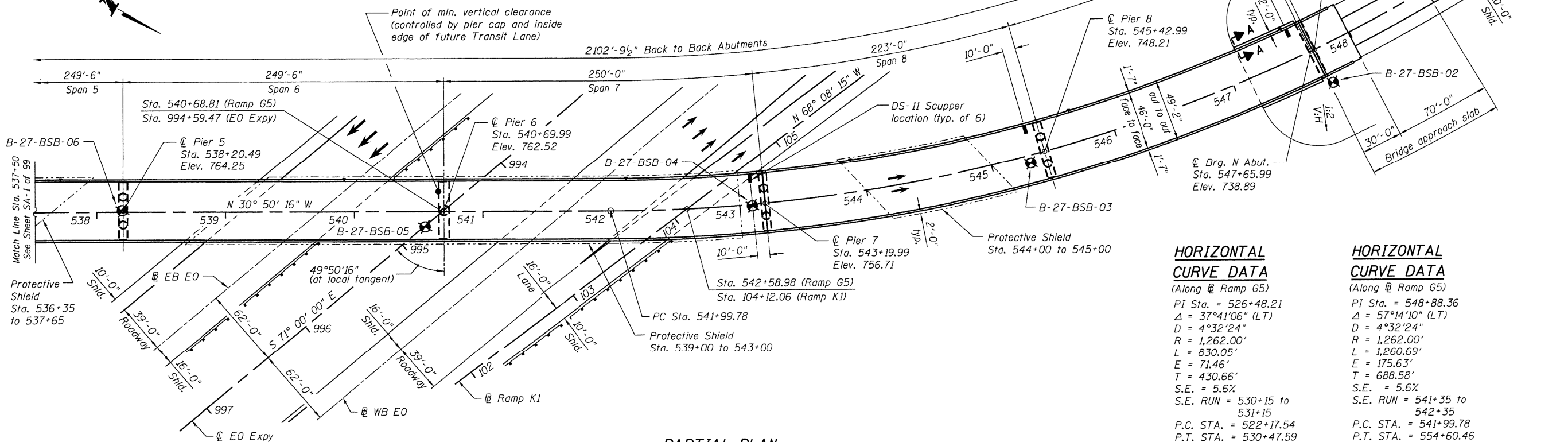
SCALE: SHEET 1 OF 7 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	35
				CONTRACT NO. 62K97
				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



PARTIAL ELEVATION



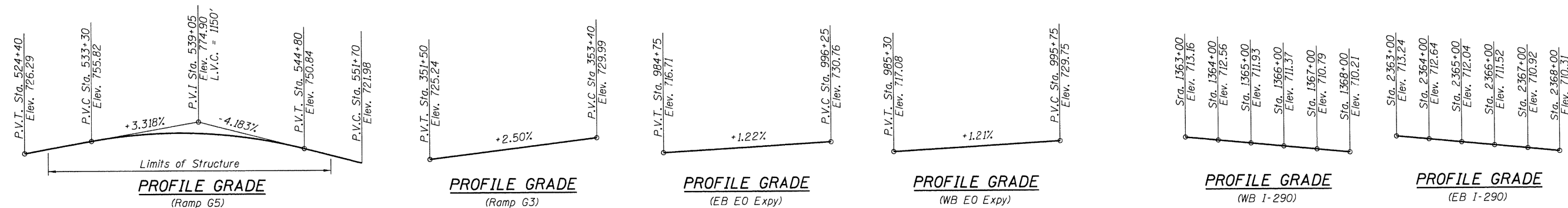
PARTIAL PLAN

HORIZONTAL CURVE DATA
(Along @ Ramp G5)

PI Sta. = 526+48.21
 $\Delta = 37^\circ 41' 06''$ (LT)
 $D = 4^\circ 32' 24''$
 $R = 1,262.00'$
 $L = 830.05'$
 $E = 71.46'$
 $T = 430.66'$
 $S.E. = 5.6\%$
 $S.E. RUN = 530+15$ to $531+15$
 $P.C. STA. = 522+17.54$
 $P.T. STA. = 530+47.59$

HORIZONTAL CURVE DATA
(Along @ Ramp G5)

PI Sta. = 548+88.36
 $\Delta = 57^\circ 14' 10''$ (LT)
 $D = 4^\circ 32' 24''$
 $R = 1,262.00'$
 $L = 1,260.69'$
 $E = 175.63'$
 $T = 688.58'$
 $S.E. = 5.6\%$
 $S.E. RUN = 541+35$ to $542+35$
 $P.C. STA. = 541+99.78$
 $P.T. STA. = 554+60.46$



MODEL: Default
 FILE: Model: ProjectRoom.dwg
 PROJECT: 2020-026-BR
 SHEET: 2 OF 7
 DATE: 3/25/2020

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	DRAWN -	REVISD -
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PLOT DATE = 3/25/2020	DATE -	REVISD -

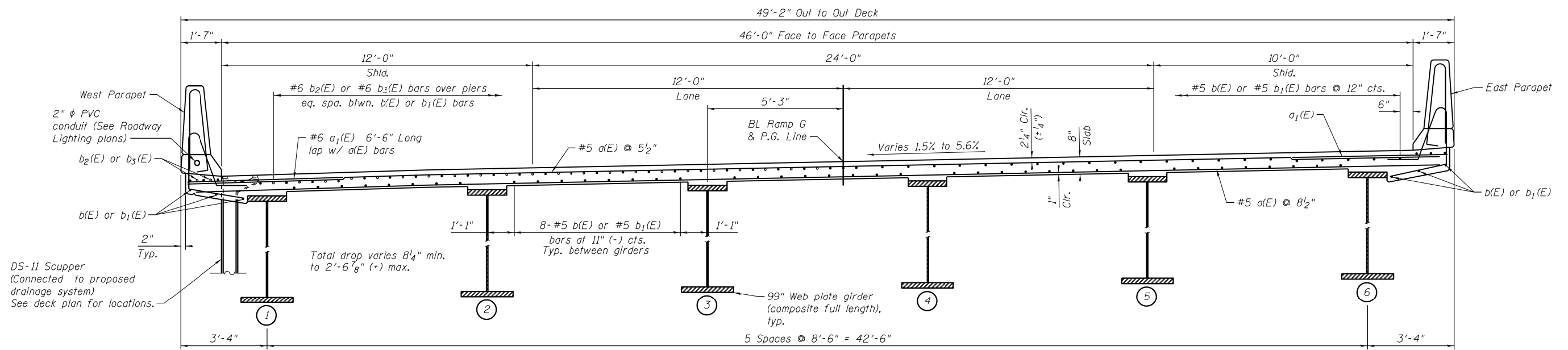
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	36
CONTRACT NO. 62K97				
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

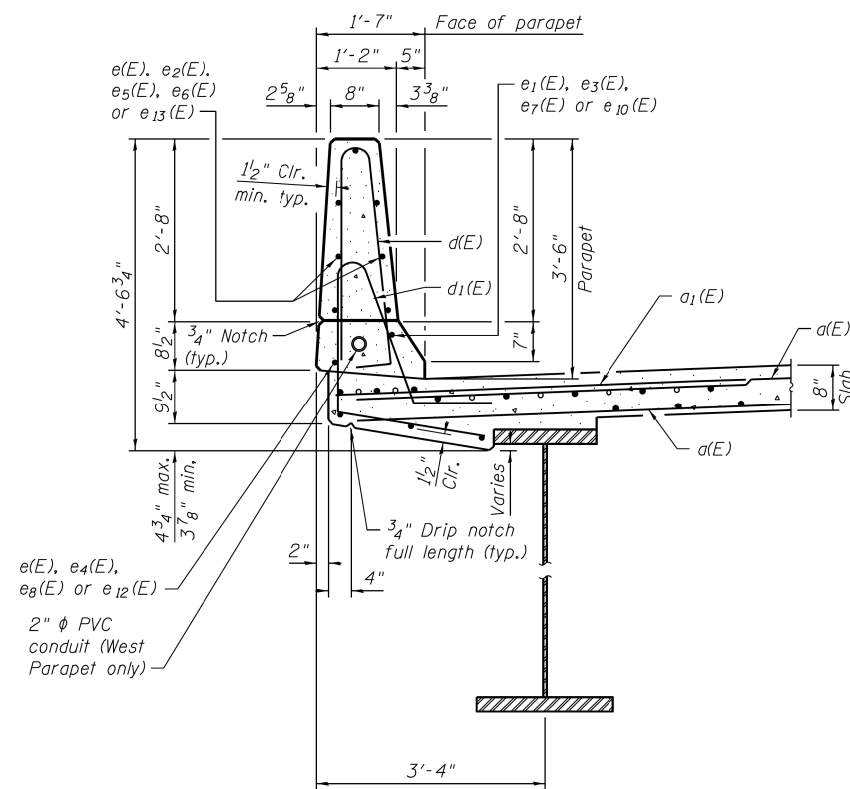


Near Pier

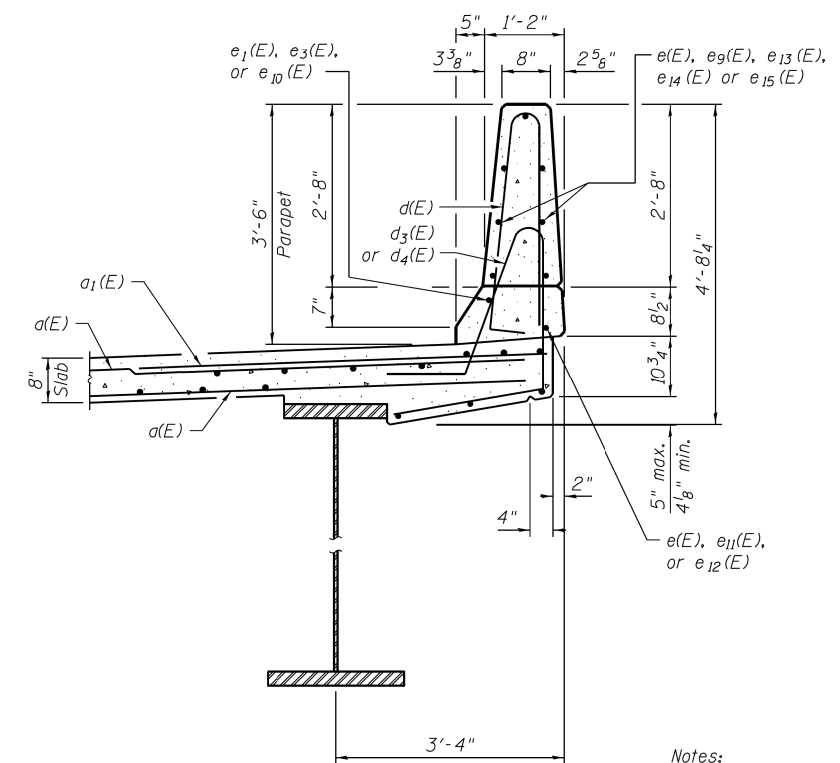
CROSS SECTION B-B

Looking upstation
All dimensions are measured radially

Near Midspan



SECTION THRU WEST PARAPET



SECTION THRU EAST PARAPET

Notes:

1. See Sheet SA-23 of 99 for deck notes.
2. Work this sheet with Sheets SA-23 thru SA-25, SA-27 & SA-28 of 99.

MODEL: Default FILE: h:\mhc\p\supl\barroom.dwg PROJECT: 140820\CD\Drawings\DOT - Offices\Drawings\140820-ehv\bridge.dwg

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PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

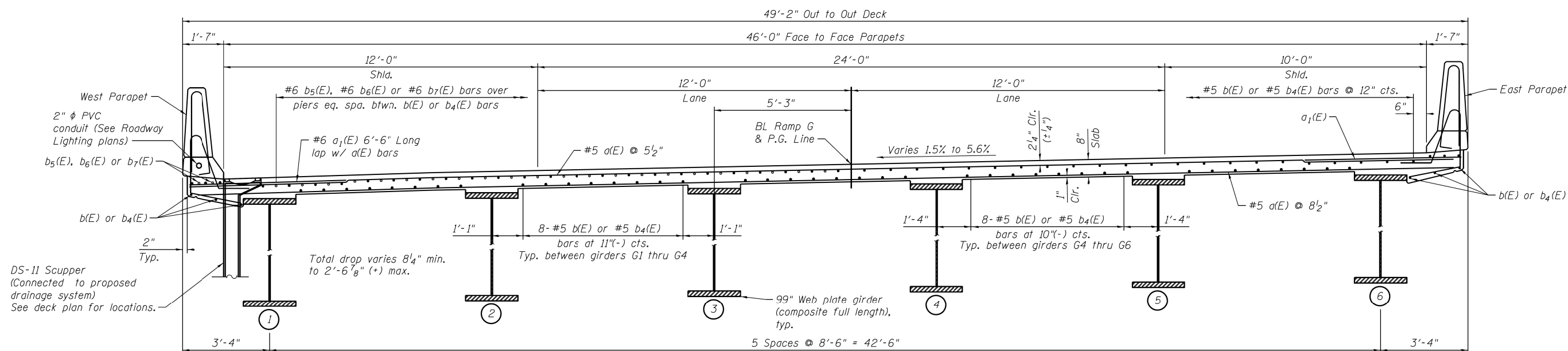
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534**

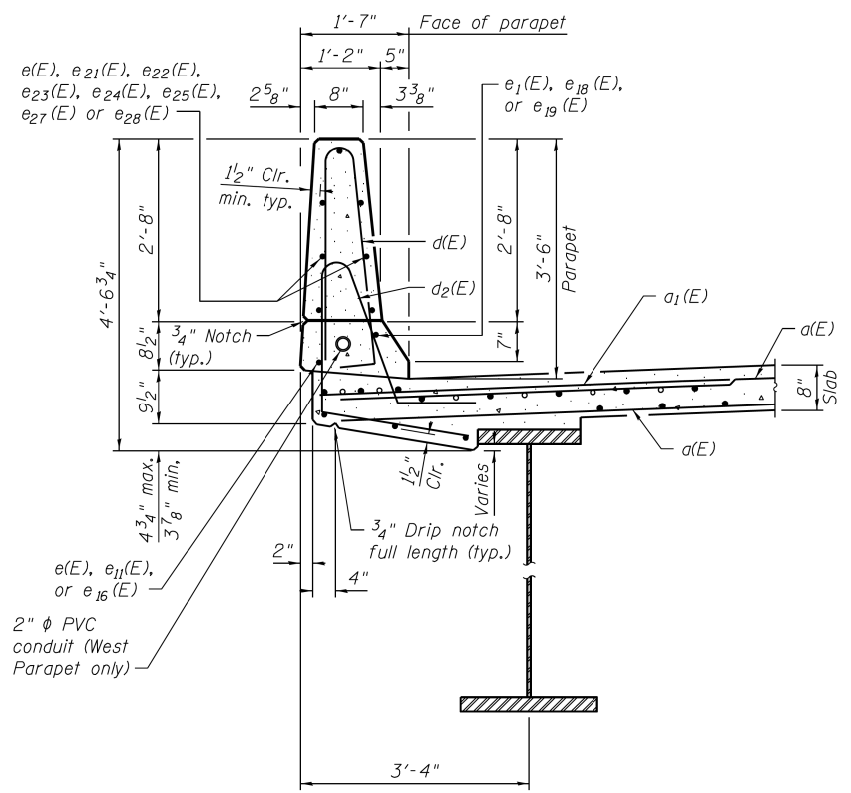
SCALE: SHEET 3 OF 7 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	37
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

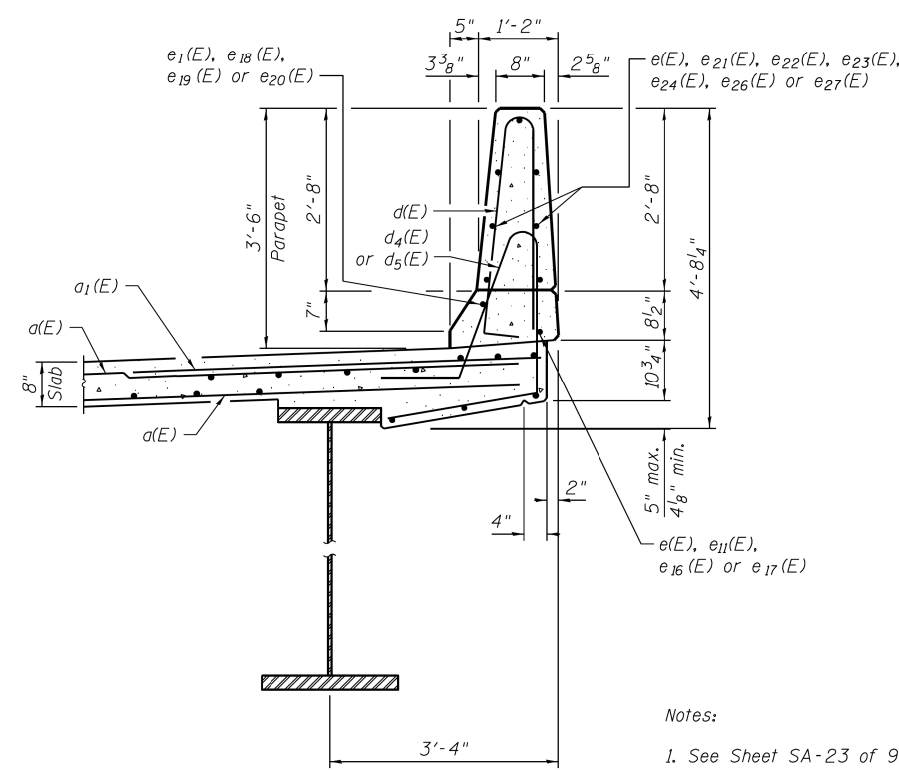
FOR INFORMATION ONLY



CROSS SECTION E-E
Looking upstation
All dimensions are measured radially



SECTION THRU WEST PARAPET



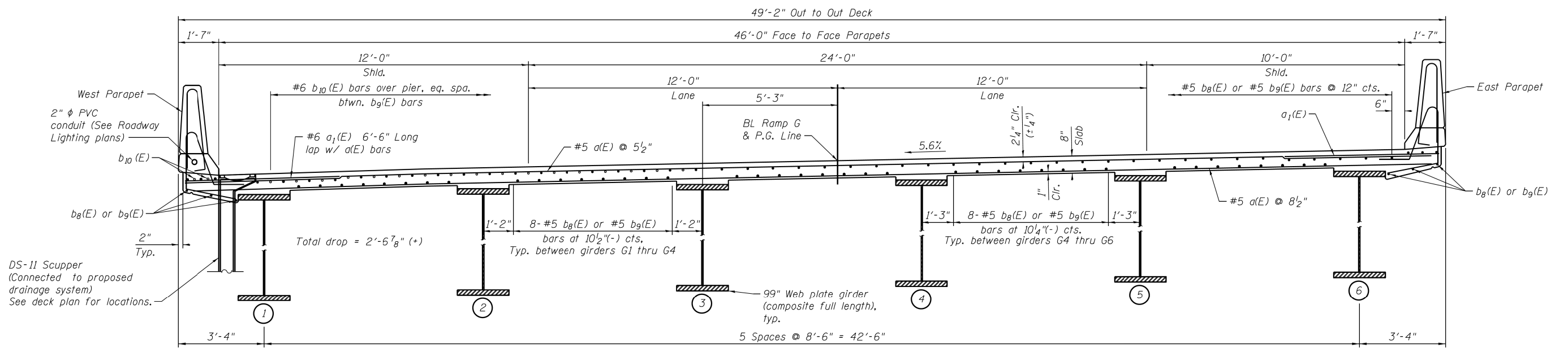
SECTION THRU EAST PARAPET

Notes:
1. See Sheet SA-23 of 99 for deck notes.
2. Work this sheet with Sheets SA-29 thru SA-32 & SA-34 thru SA-36 of 99.

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USER NAME = diazia	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH SN: 022-0534		VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -		SCALE:	SHEET 4 OF 7 SHEETS	STA.	2020-026-BR	VARIOUS	58	38
PLOT DATE = 3/25/2020	CHECKED -	REVISED -	CONTRACT NO. 62K97			ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

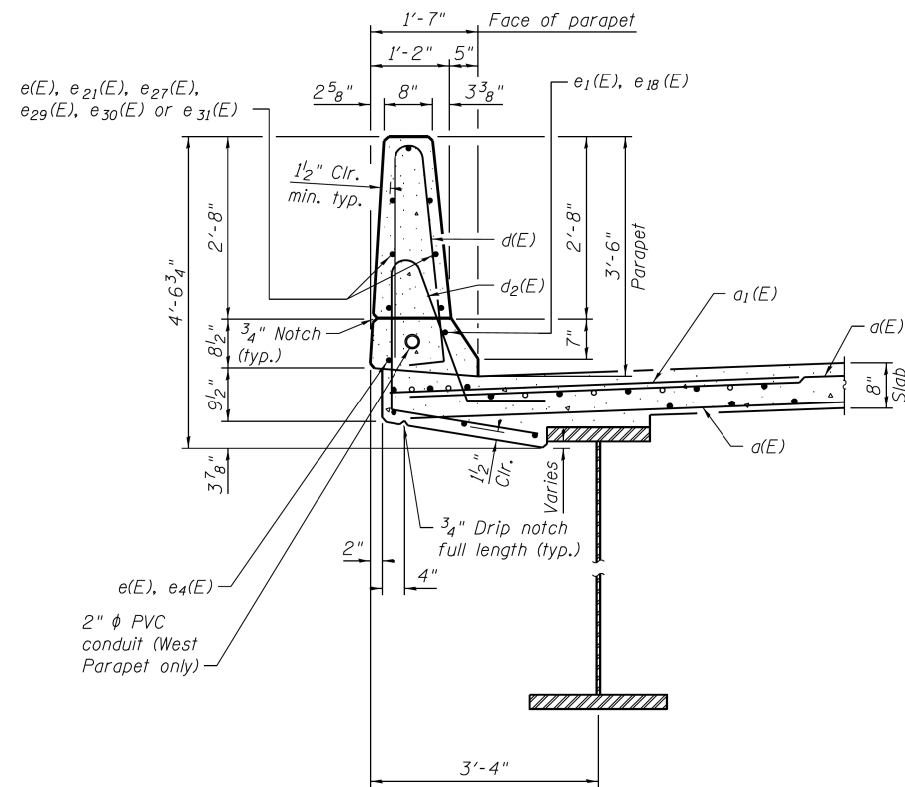


Near Pier

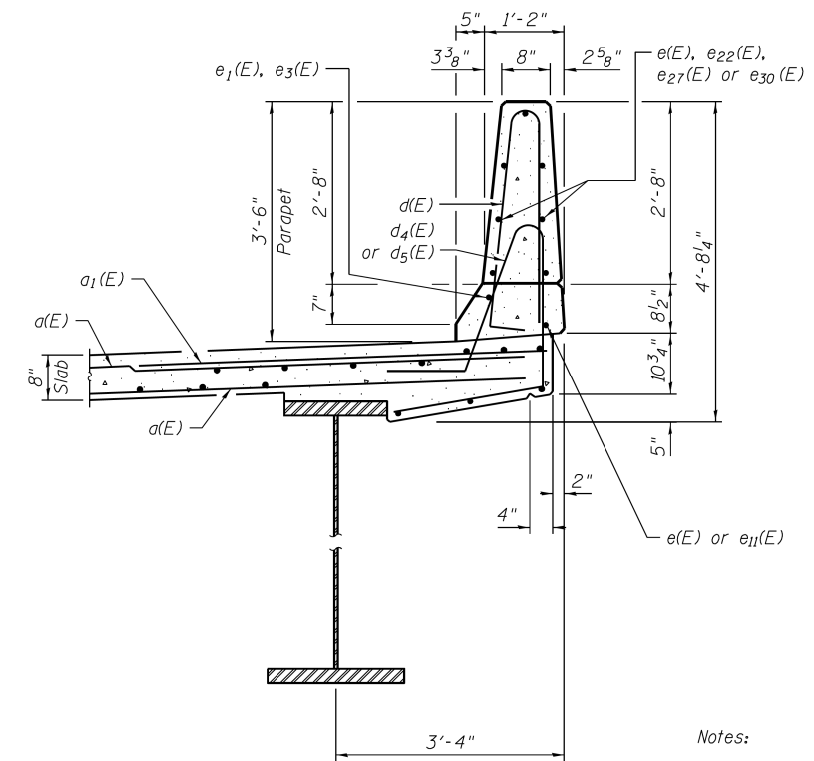
CROSS SECTION F-F

Looking upstation
All dimensions are measured radially

Near Midspan



SECTION THRU WEST PARAPET



SECTION THRU EAST PARAPET

- Notes:
- See Sheet SA-23 of 99 for deck notes.
 - Work this sheet with Sheets SA-37, SA-38, SA-40 & SA-41 of 99.

MODEL: Default
 FILE: h:\aspc\p\140820\CADD\Drawings\DOT\Office\Drawings\140820\sbv\bridge.dgn

USER NAME = diazia	DESIGNED -	REVISED -
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PLOT DATE = 3/25/2020	DATE -	REVISED -

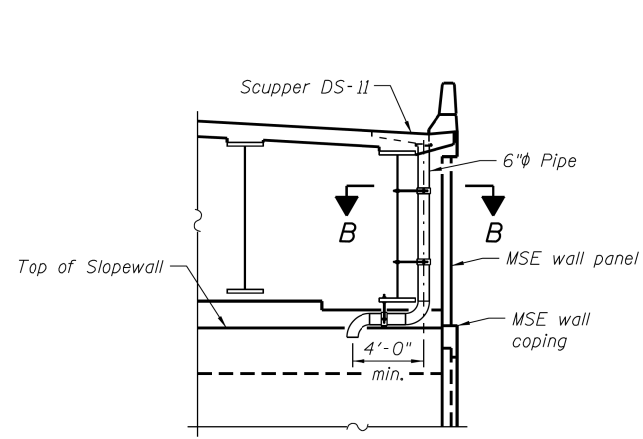
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534**

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

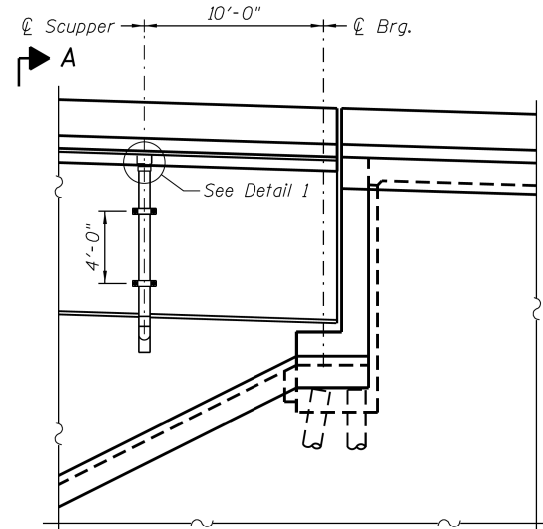
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	39
CONTRACT NO. 62K97				
ILLINOIS		FED. AID PROJECT		

FOR INFORMATION ONLY

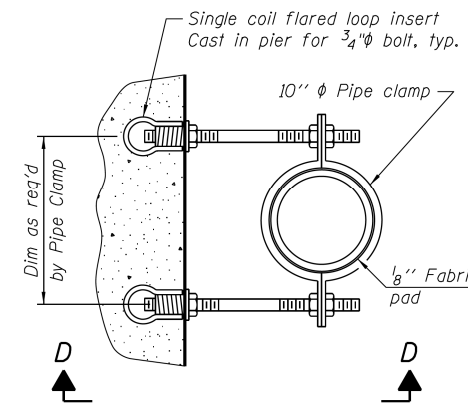


SECTION A-A

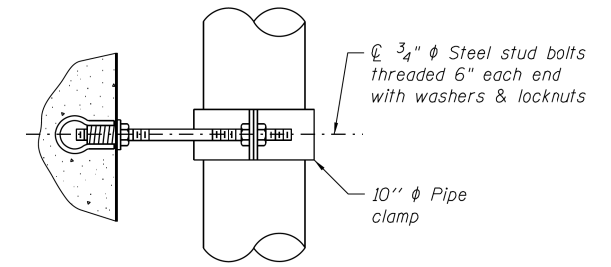
(South abutment as shown)
(North abutment similar)



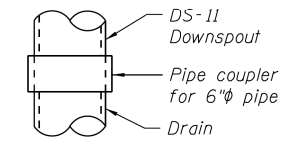
ELEVATION VIEW - ABUTMENT



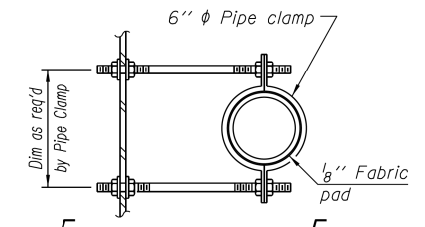
SECTION C-C



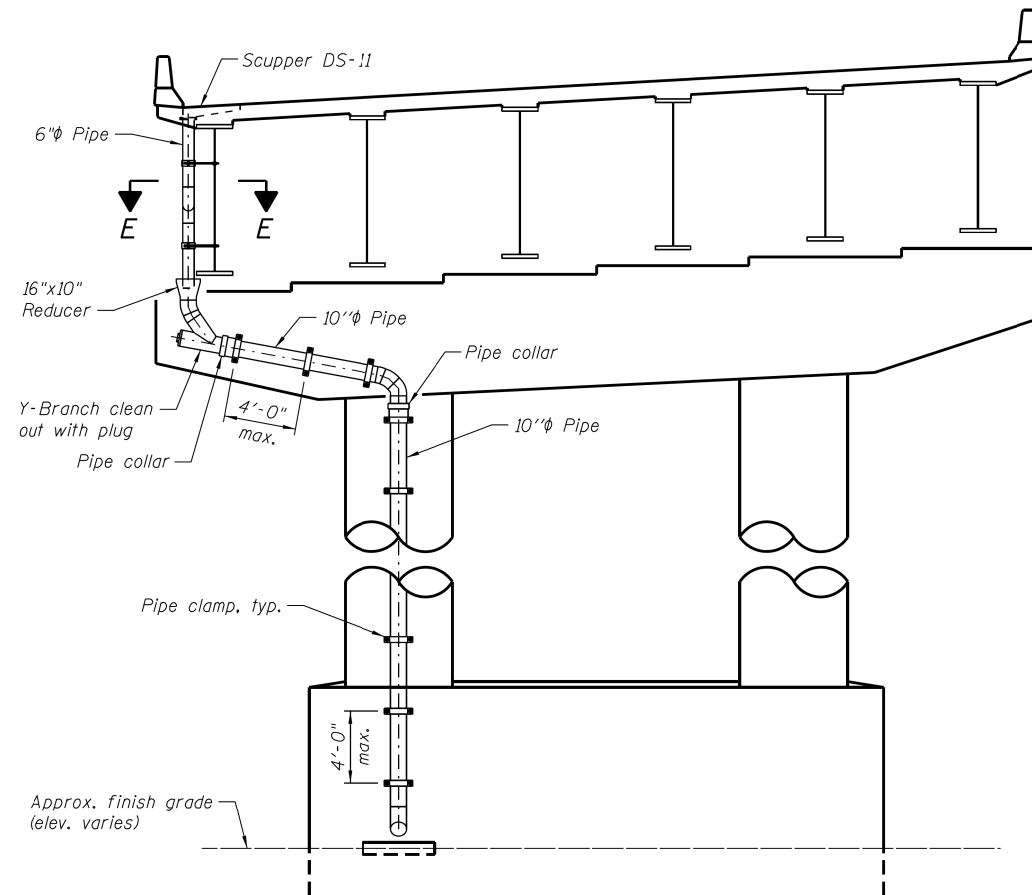
VIEW D-D



DETAIL 1



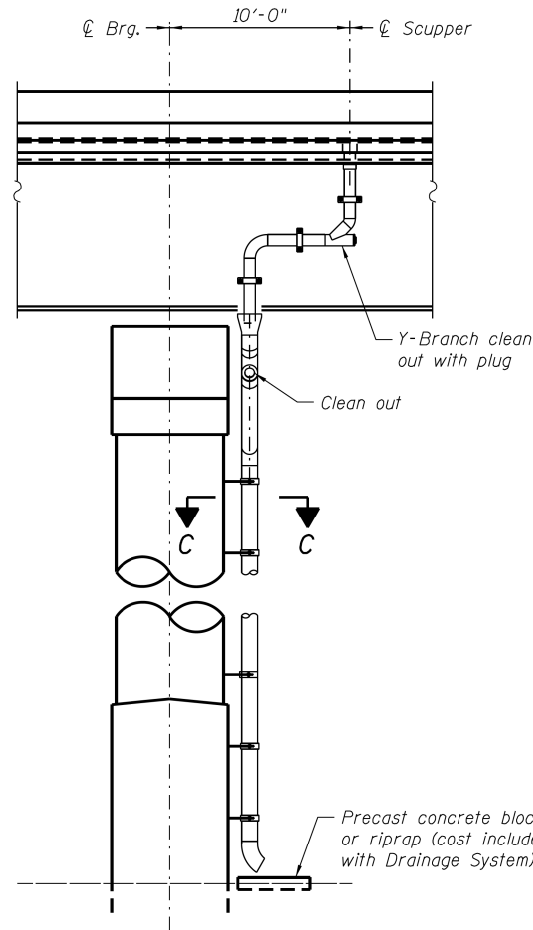
**SECTION B-B (AS SHOWN)
SECTION E-E (OPP. HAND)**



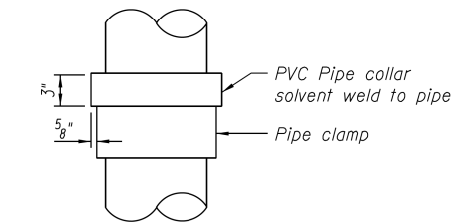
ELEVATION PIERS 1, 7 & 8 (As shown)

ELEVATION PIER 3 (Similar)

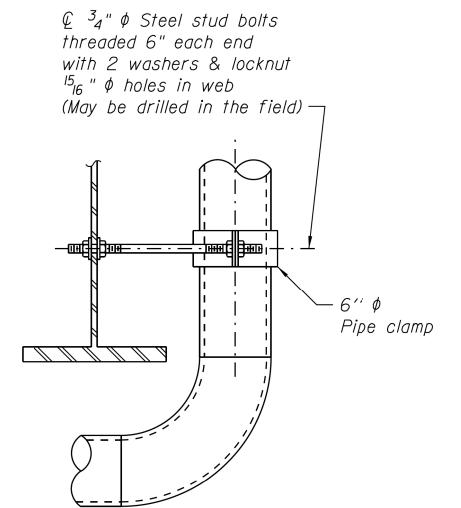
(Looking Upstation)



END VIEW - END



PIPE COLLAR DETAIL



VIEW F-F

MODEL: Default
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 USER: diazia
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 3/25/2020

USER NAME = diazia	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2020	DATE -	REVISED -

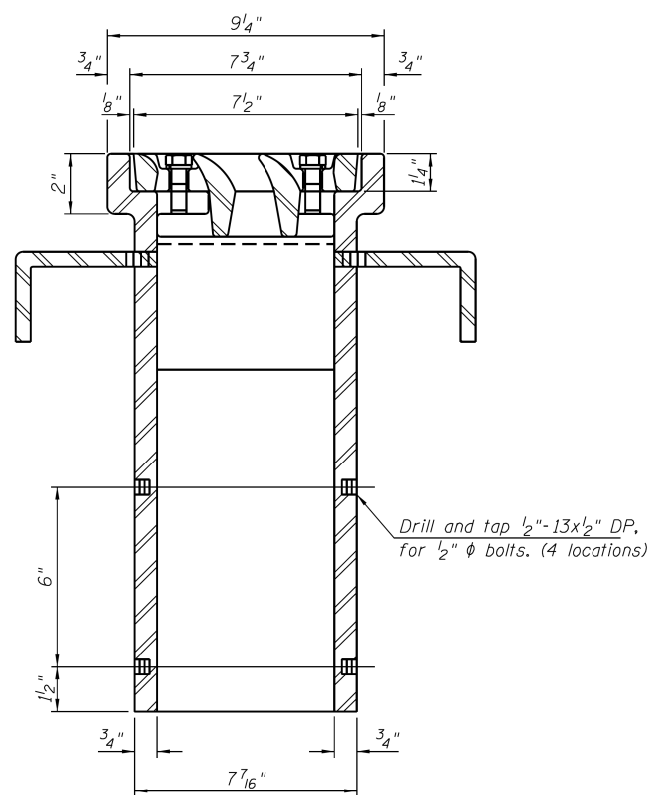
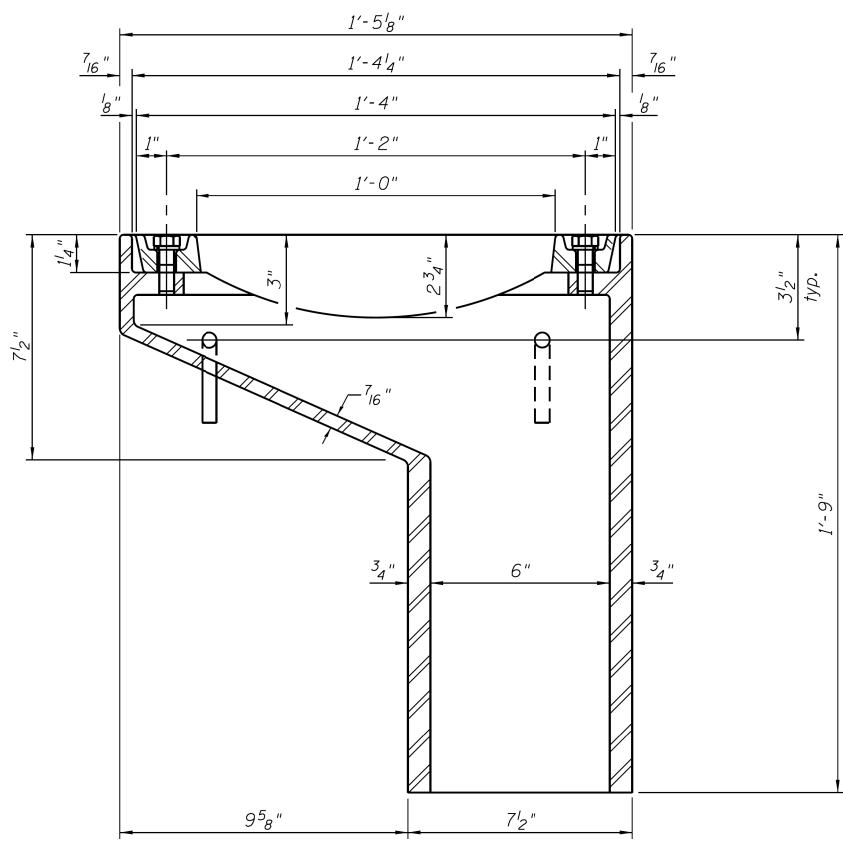
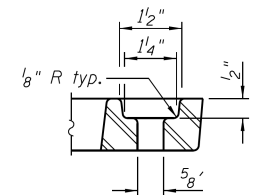
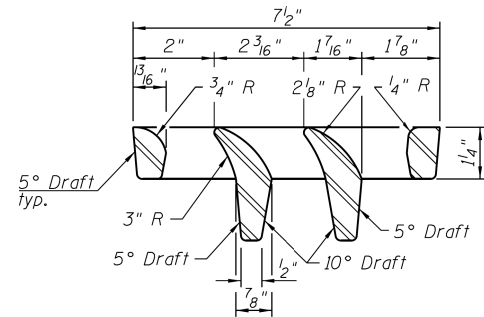
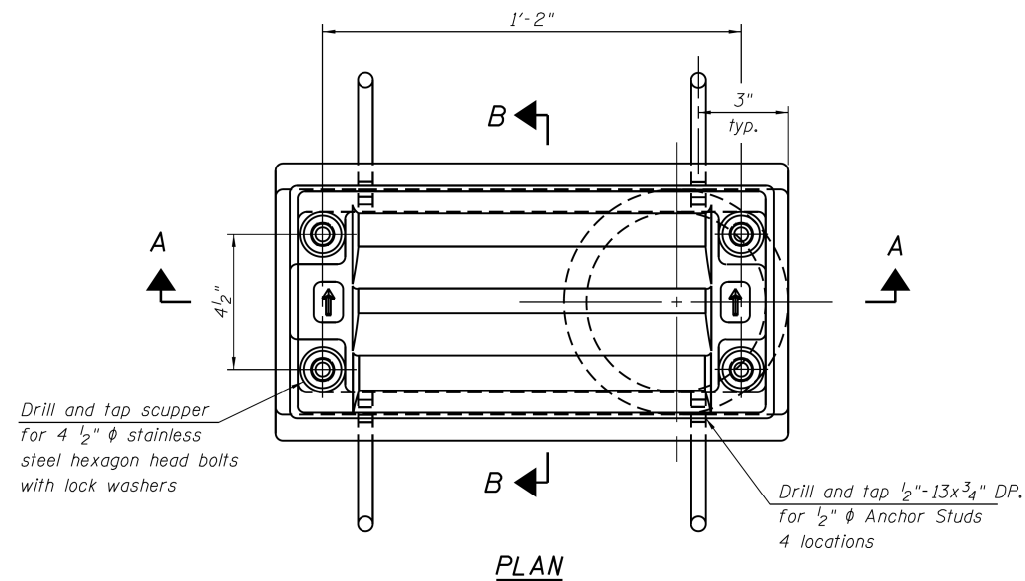
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534**

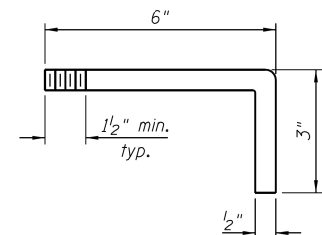
SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	40
			CONTRACT NO. 62K97	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



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 USER: diazia
 PLOT SCALE = 100.0000' / in.
 PLOT DATE = 3/25/2020

USER NAME = diazia	DESIGNED -	REVISED -
DRAWN -	REVISED -	REVISED -
CHECKED -	REVISED -	REVISED -
DATE -	REVISED -	REVISED -

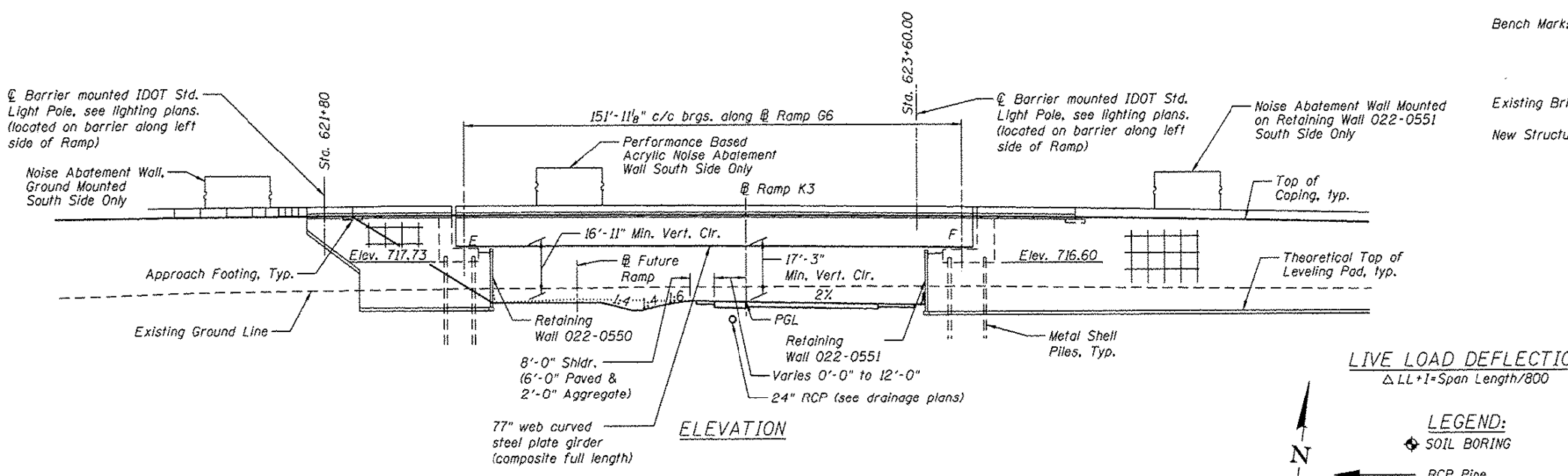
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 4: I-290 WB 2 IL 390WB OVER I-290 & IL 390 EOH
SN: 022-0534

SCALE: SHEET 7 OF 7 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	41
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				

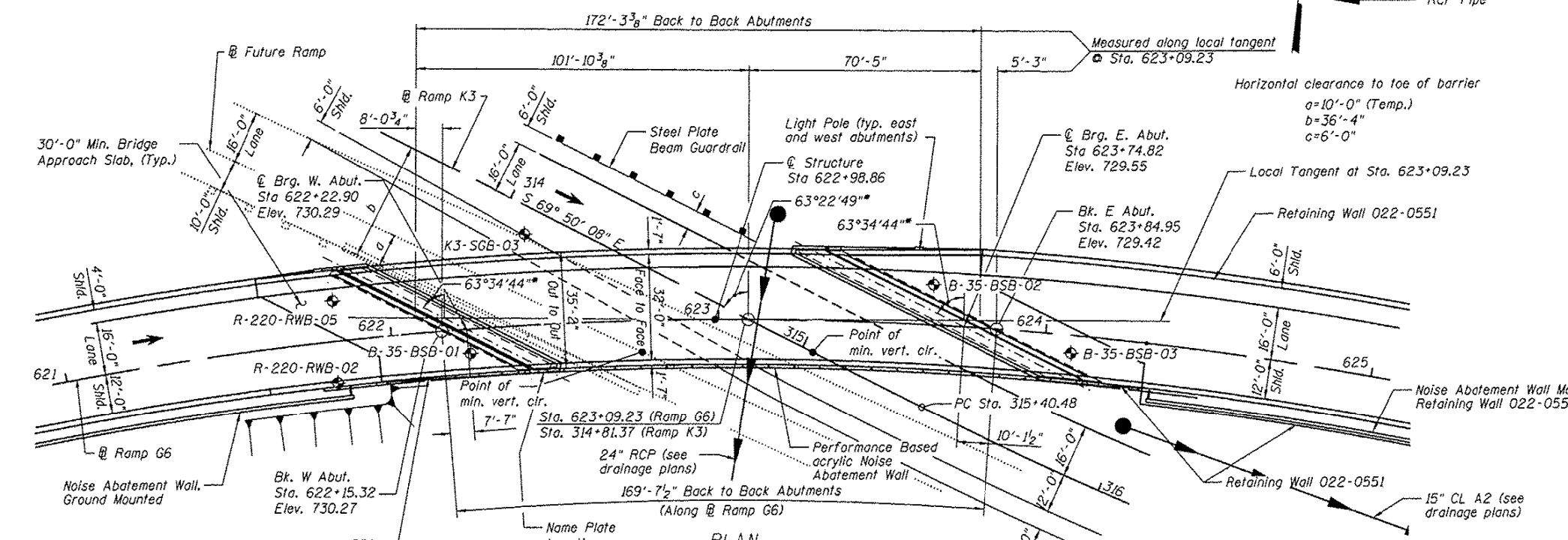
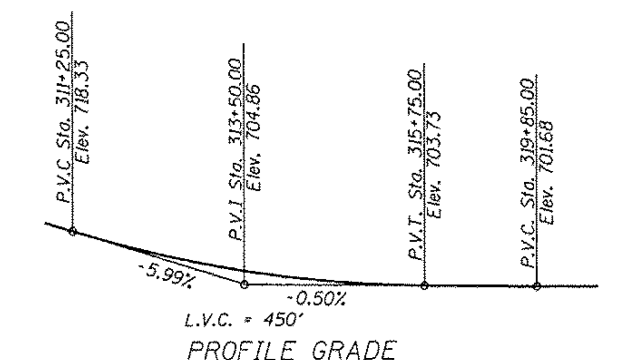
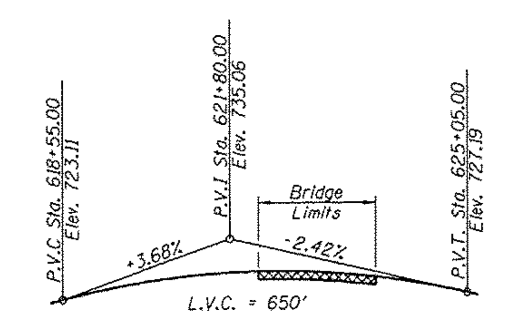
FOR INFORMATION ONLY



Bench Mark: BM#716. Cut square in the northwest end of bridge wall. Approximately 65 feet north of the centerline of Thorndale Ave. and 168 feet west of the centerline of I-290, approximately 12 feet west of bridge deck. Elevation: 731.40 (NAVD88)

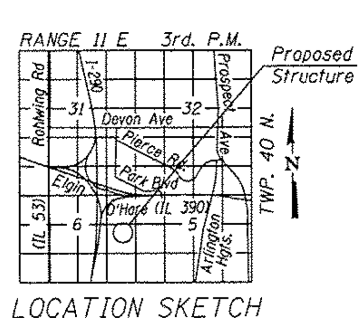
Existing Bridge: None

New Structure: SN 022-0549 will carry Ramp G6 over Ramp K3 and a future ramp. The bridge consists of a single span concrete deck slab on 77" web steel plate girder with an ahead right skew of 63°34'44". The bridge measures 172'-3 3/8" (measured along tangent) back to back abutments, and is 35'-2" out to out parapets.



HORIZONTAL CURVE DATA
(Along @ Ramp G6)

Curve No.	160
Curve Name	B1 E0 G6P-1
PI STA.	= 619+44.27
Δ	= 88°27'45.43"
D	= 5°12'31.35"
R	= 1100.00'
L	= 1698.36'
E	= 435.18'
T	= 1070.87'
S.E.	= 0.058 1/1'
P.C. STA.	= 608+73.39
P.T. STA.	= 625+71.75
BACK N	8°45'22.5" E
AHEAD S	82°46'52.1" E



GENERAL PLAN & ELEVATION
RAMP G6 OVER RAMP K3
DUPAGE COUNTY
STATION 622+98.86
STRUCTURE NO. 022-0549

MODEL: Default
FILE: Model - ProjectRoom.dwg
PROJECT: D:\Projects\022-0549\022-0549.dwg
DATE: 3/25/2020

USER NAME = diaza	DESIGNED -	REVISED -
DRAWN -	REVISIONS -	
PLOT SCALE = 100,0000' / 1 in.	CHECKED -	REVISIONS -
PLOT DATE = 3/25/2020	DATE -	REVISIONS -

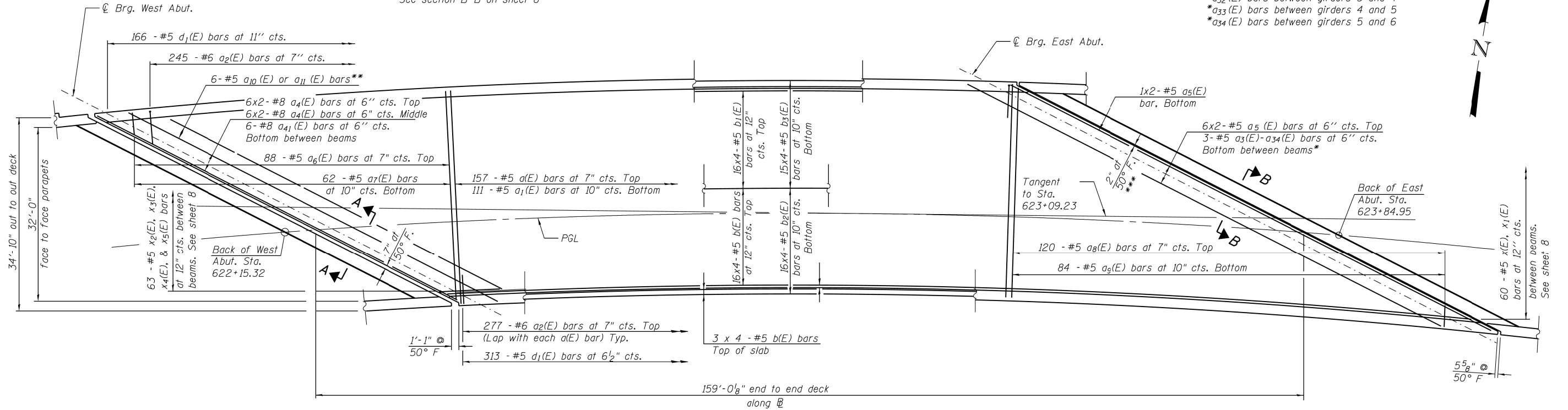
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 5: I-290 WB TO IL 390 EB OVER I-290 EB TO IL 390 EB	VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SN: 022-0549	VAR.	2020-026-BR	VARIOUS	58	42
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 62K97				

FOR INFORMATION ONLY

**a₁₀(E) bars between girders 1 and 2, 2 and 3
 **a₁₁(E) bars between girders 3 and 4, 4 and 5, 5 and 6
 See section B-B on sheet 8

*a₃(E) bars between girders 1 and 2
 *a₃₁(E) bars between girders 2 and 3
 *a₃₂(E) bars between girders 3 and 4
 *a₃₃(E) bars between girders 4 and 5
 *a₃₄(E) bars between girders 5 and 6



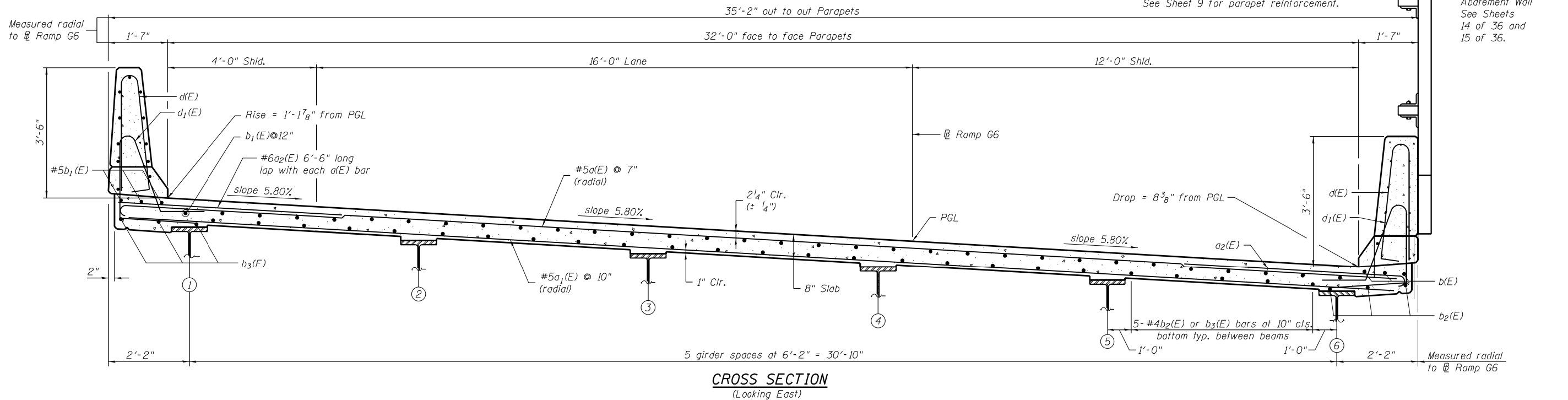
MINIMUM BAR LAP

(Deck)
 #5 bar = 2'-7"
 #8 bar = 5'-2"

*** Dimensions are based on a rolled strip seal joint. If the Contractor elects to use the welded rail strip seal joint, deck dimension may require adjustments to satisfy the details on sheet SH-16.

PLAN

Notes:
 See Sheets 8 and 9 for superstructure details and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See Sheet 8 for Section A-A and B-B.
 See Sheet 9 for parapet reinforcement.



CROSS SECTION (Looking East)

MODEL: Default
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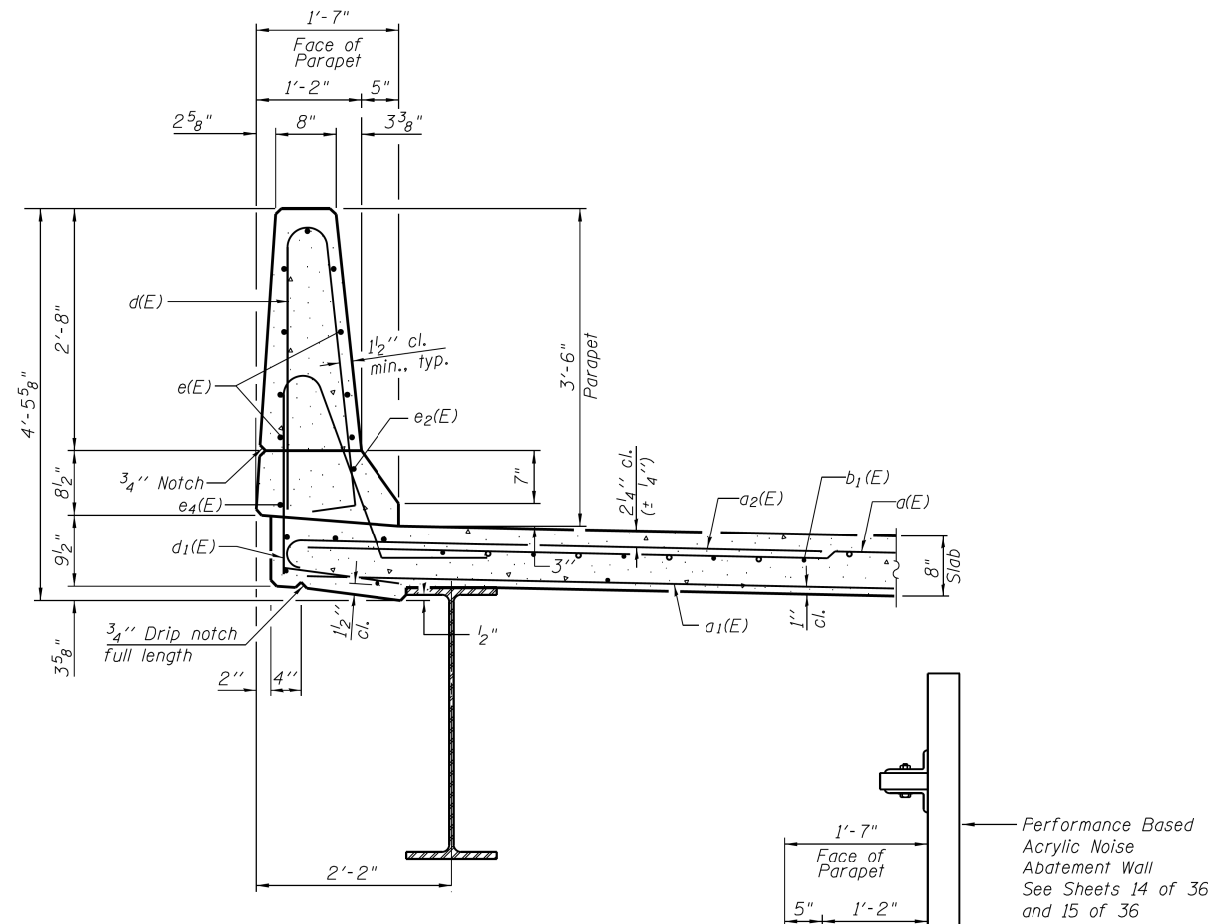
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION 5: I-290 WB TO IL 390 EB OVER I-290 EB TO IL 390 EB
 SN: 022-0549**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	43
ILLINOIS			CONTRACT NO. 62K97	
FED. AID PROJECT				

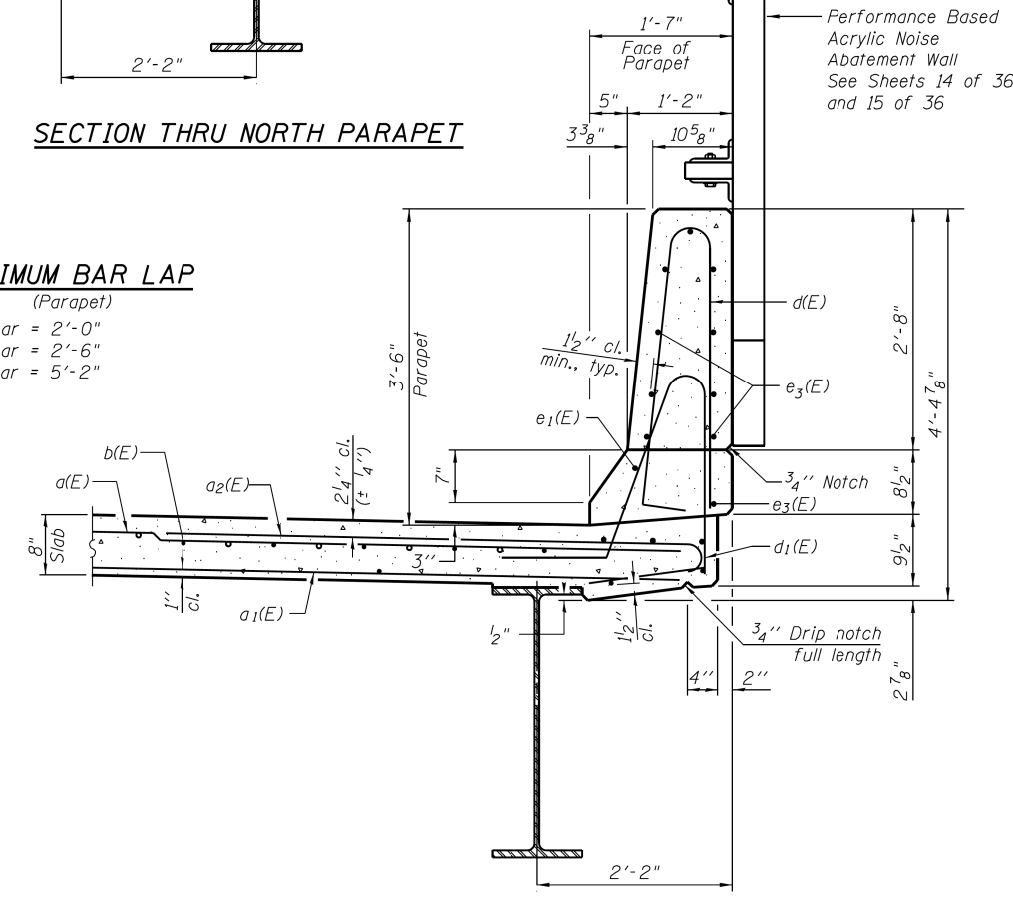
FOR INFORMATION ONLY



SECTION THRU NORTH PARAPET

MINIMUM BAR LAP
(Parapet)

- #4 bar = 2'-0"
- #5 bar = 2'-6"
- #8 bar = 5'-2"



SECTION THRU SOUTH PARAPET

MODEL: Default
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 OFFICE: I-290 WB TO I-390 EB OVER I-290 EB TO I-390 EB
 DESIGNED: diazia
 DRAWN: diazia
 CHECKED: diazia
 DATE: 3/25/2020

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LOCATION 5: I-290 WB TO IL 390 EB OVER I-290 EB TO IL 390 EB
SN: 022-0549

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

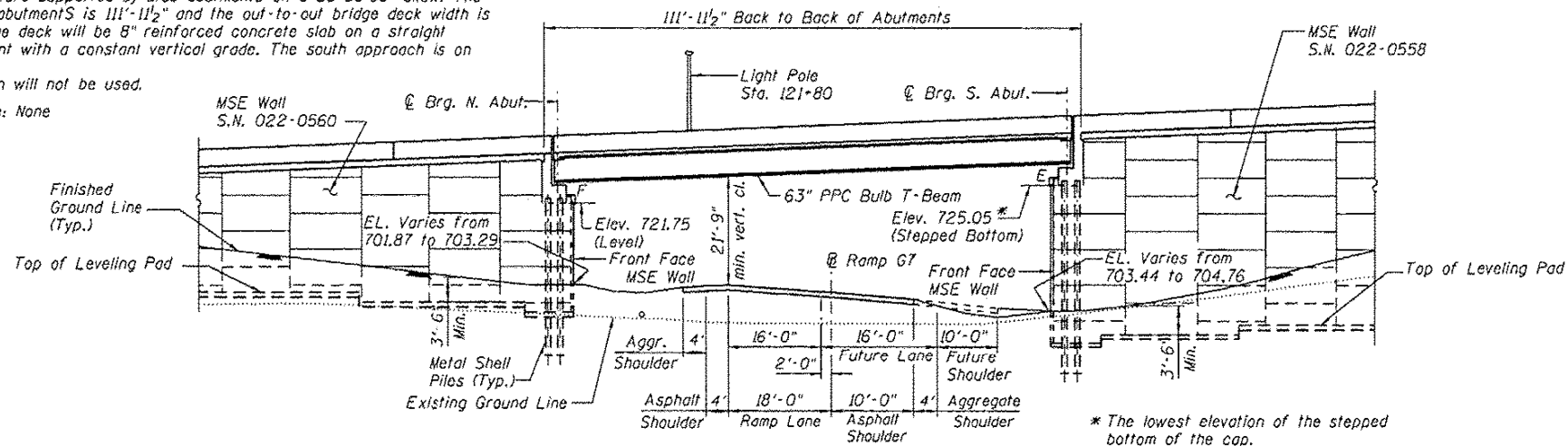
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	44
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

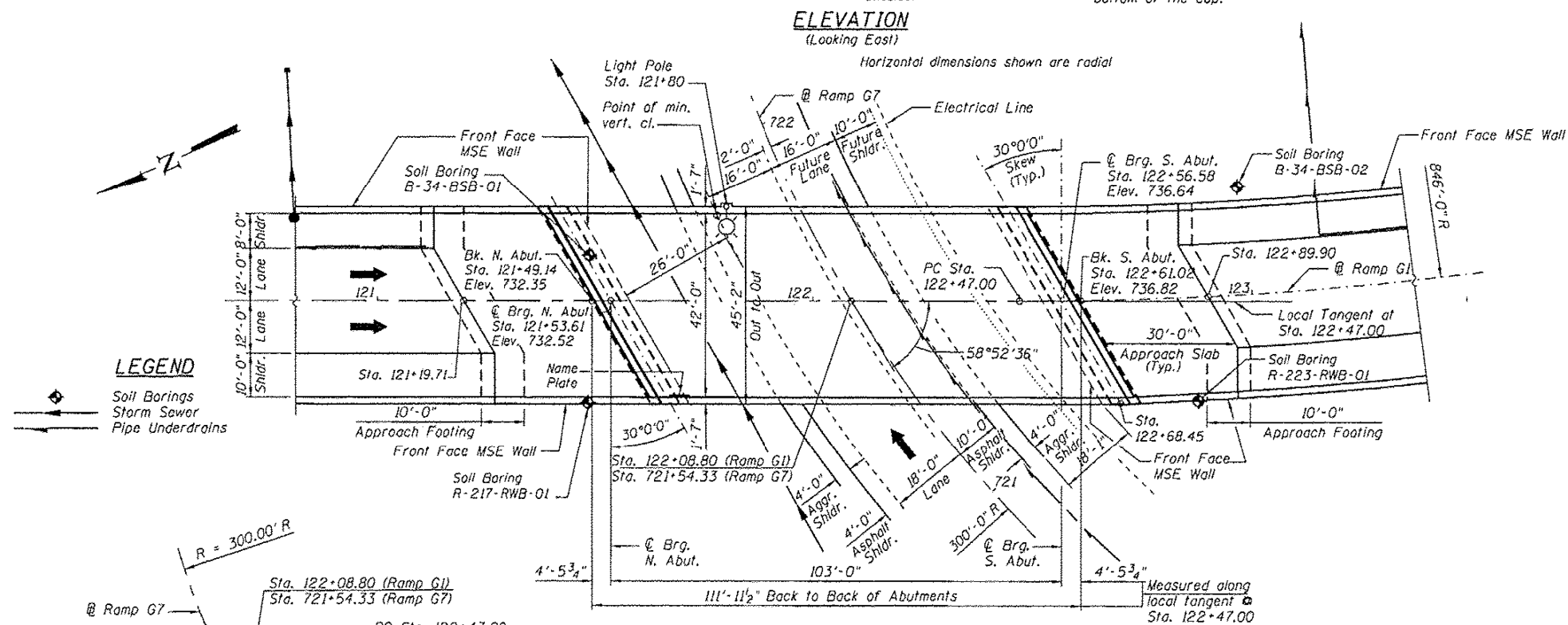
Bench Mark: BM#716 Cut square in the northwest end of bridge wall. Approximately 65 feet north of the centerline of Thorndale Ave. and 168 feet west of the centerline of I-290, approximately 12 feet west of bridge deck.
Elevation: 731.40 (NAVD88).

The proposed structure is a single-span straight bridge on 63" PPC Bulb T Beams superstructure supported by stub abutments on a 30°00'00" skew. The back-to-back of abutments is 111'-11½" and the out-to-out bridge deck width is 45'-2". The bridge deck will be 8" reinforced concrete slab on a straight horizontal alignment with a constant vertical grade. The south approach is on curved alignment.
Stage Construction will not be used.
Existing Structure: None

Existing Structure: None

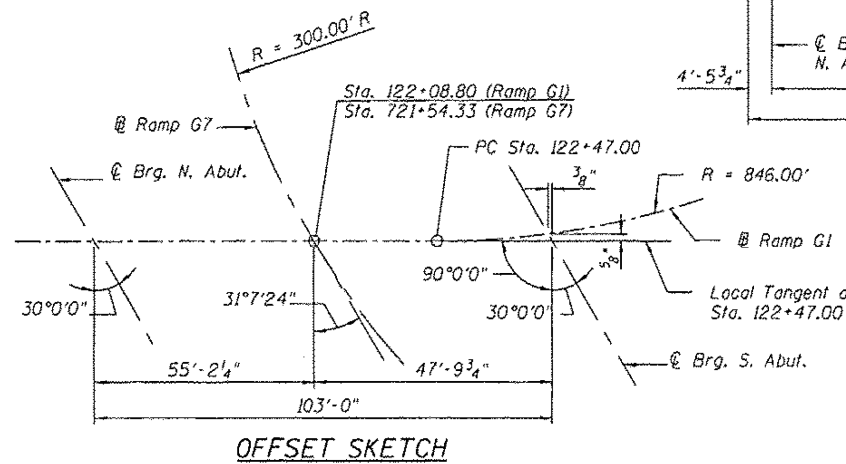


* The lowest elevation of the stepped bottom of the cap.



STATION 122+08.80
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 345 SEC. 2013-083-R&B
LOADING HL-93
STR. NO. 022-0556

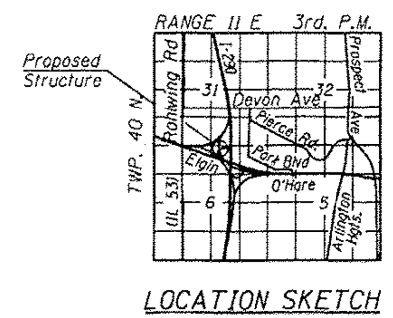
NAME PLATE
See Std. 515001



PLAN

PROFILE GRADE
(Ramp G1)

PROFILE GRADE
(Ramp G7)

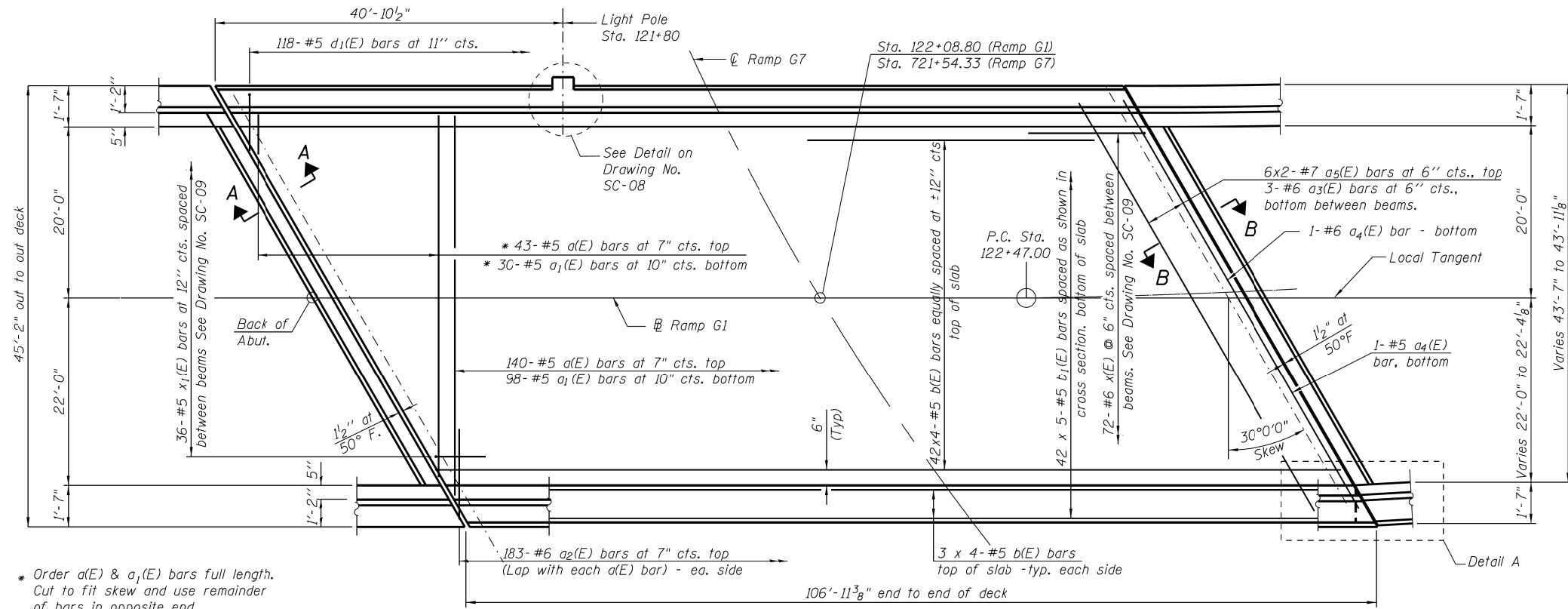


GENERAL PLAN
RAMP G1 OVER RAMP G7
ELGIN O'HARE (IL-390) AT I-290
DUPAGE COUNTY
STATION 122+08.80
STRUCTURE NO. 022-0556

MODEL: Default
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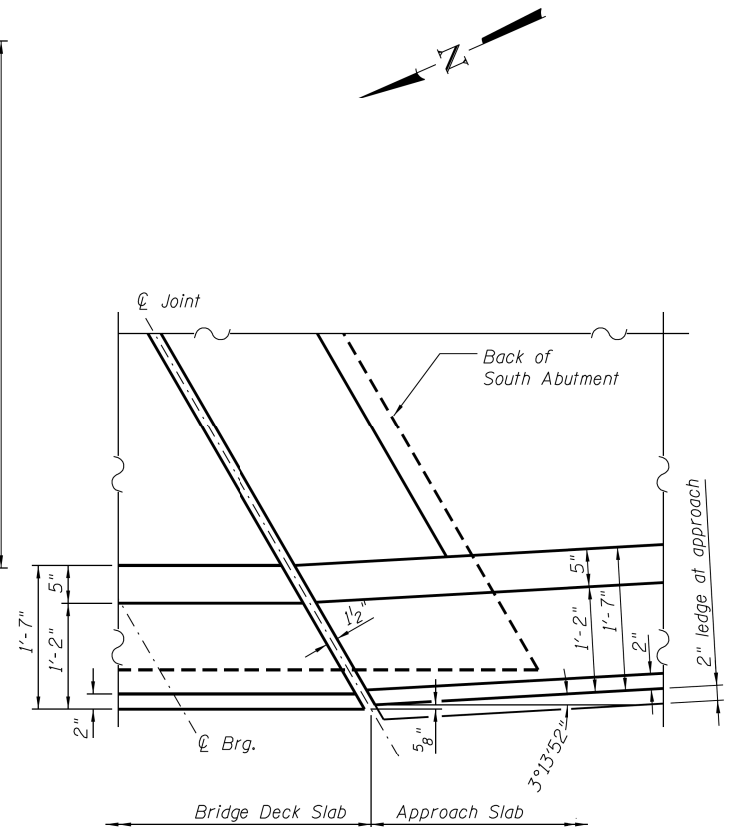
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DRAWN -	REVISD -	VAR.			2020-026-BR	VARIOUS	58	45	
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PLOT DATE = 3/25/2020	DATE -	REVISED -			SCALE:	SHEET 1 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

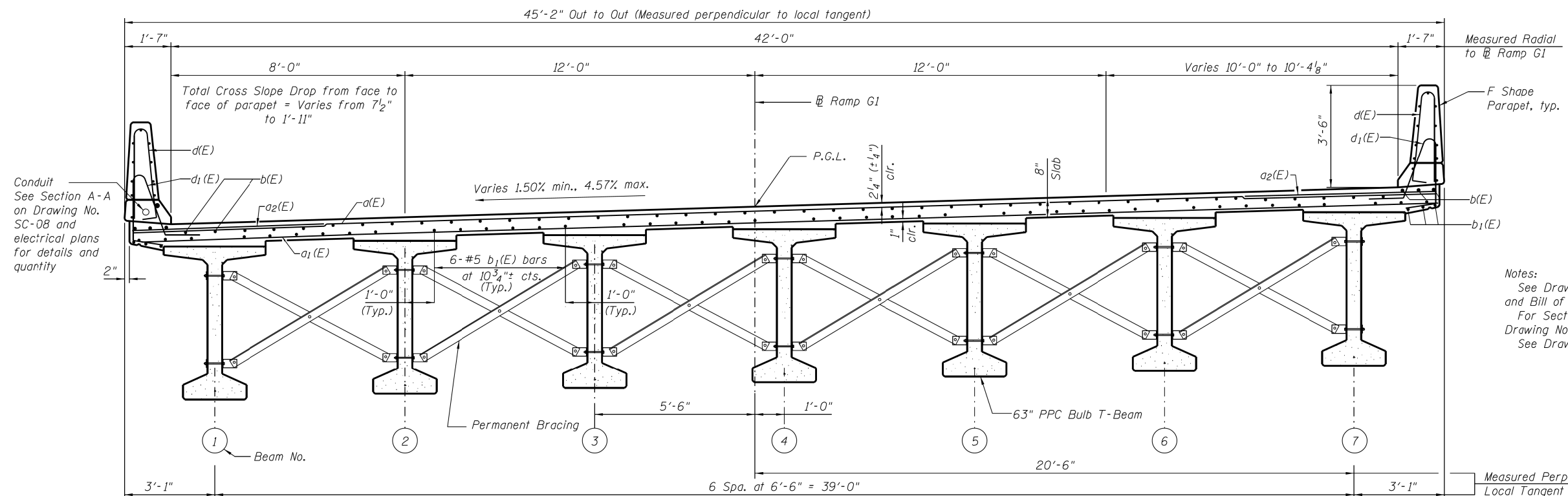


* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

DECK PLAN



DETAIL A



CROSS SECTION
(Looking South)

Notes:
See Drawing No. SC-08 for superstructure details and Bill of Material.
For Section A-A, B-B, and diaphragm details see Drawing No. SC-09.
See Drawing No. SC-08 for parapet reinforcement.

MIN. BAR LAP
#5 = 3'-3"

MODEL: Default
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PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

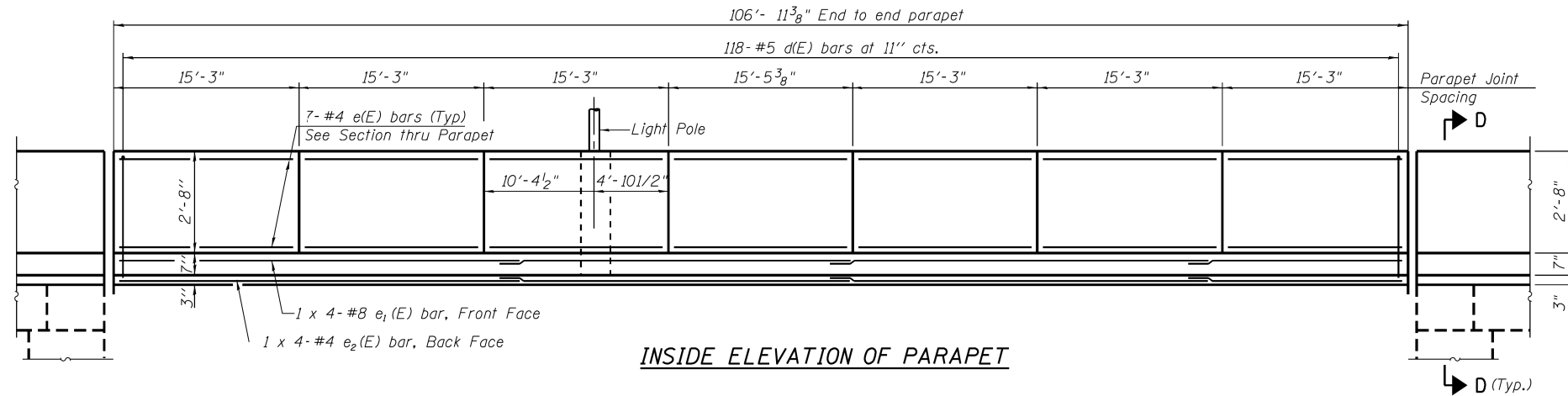
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390 WB TO IL 290 EB
SN: 022-0556**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

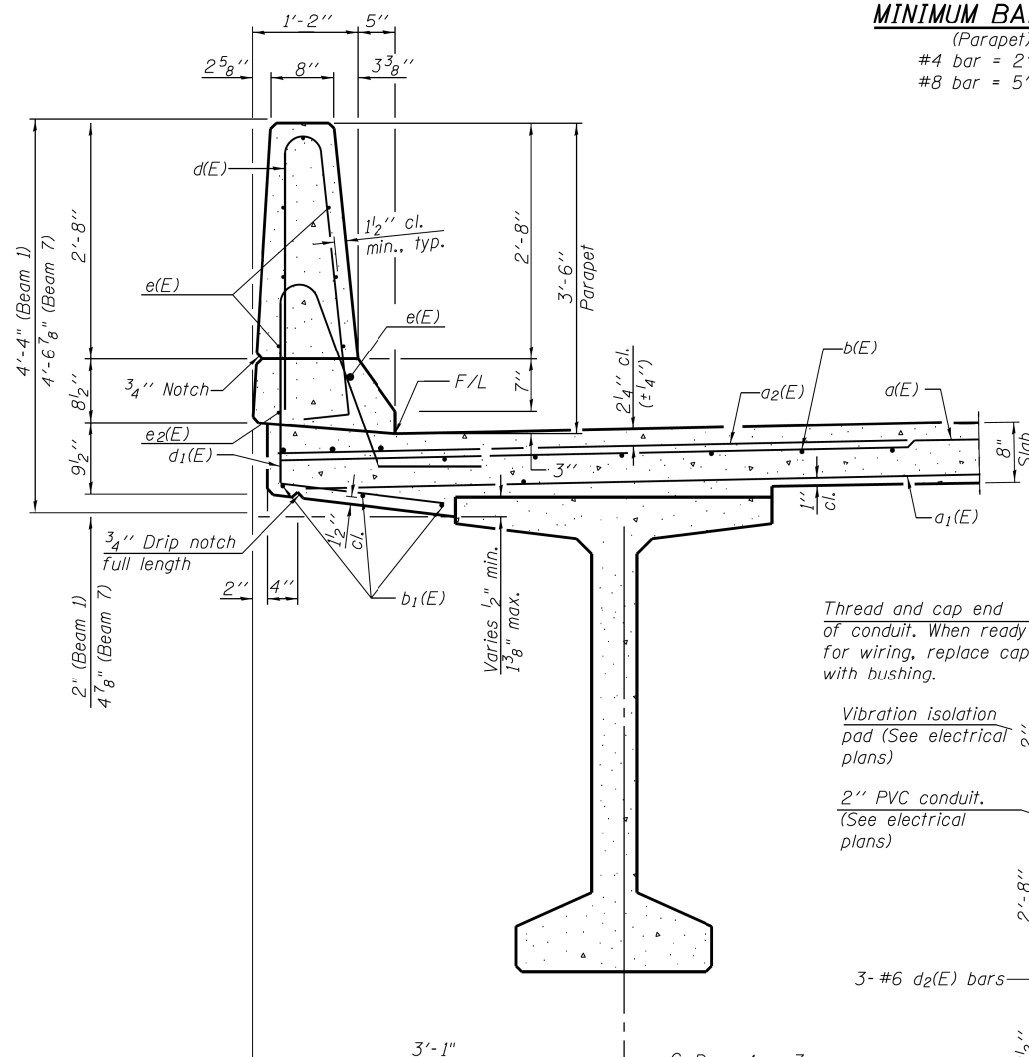
FOR INFORMATION ONLY



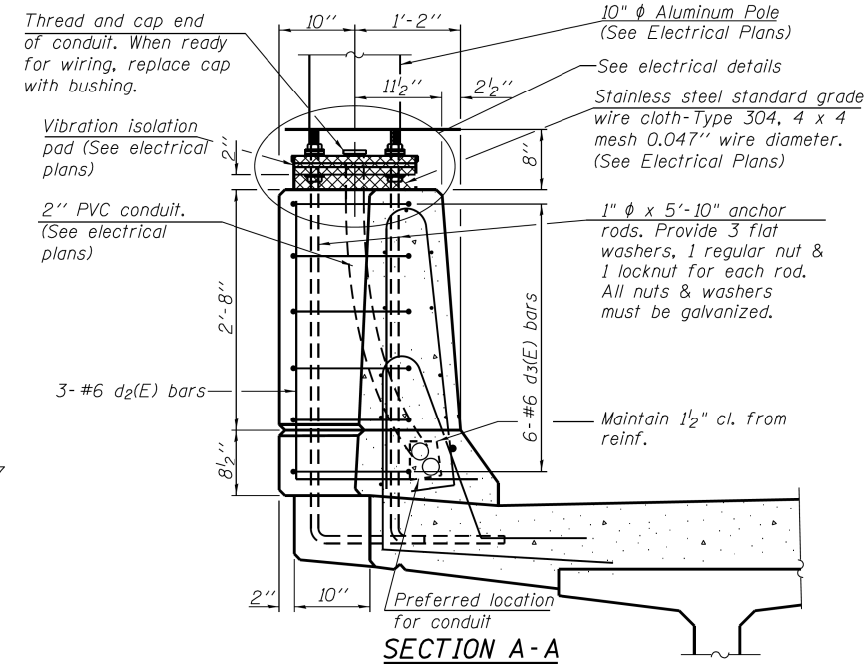
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

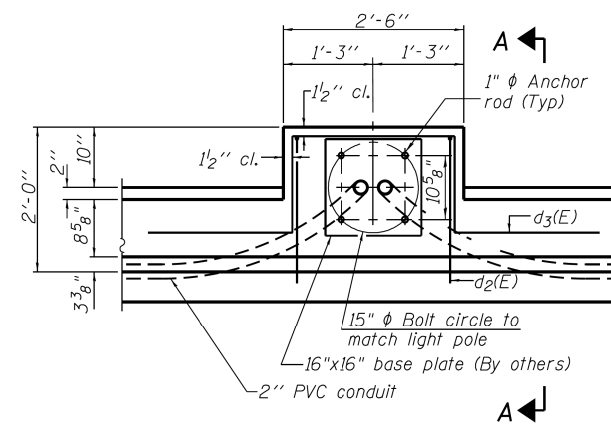
(Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"



SECTION THRU PARAPET



SECTION A-A



PLAN

Note:
 Cost of anchor rods is incidental to the cost of Concrete Superstructure.
 PVC conduit is quantified and included in the electrical plans.

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PLOT DATE = 3/25/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390 WB TO I-290 EB
 SN: 022-0556**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

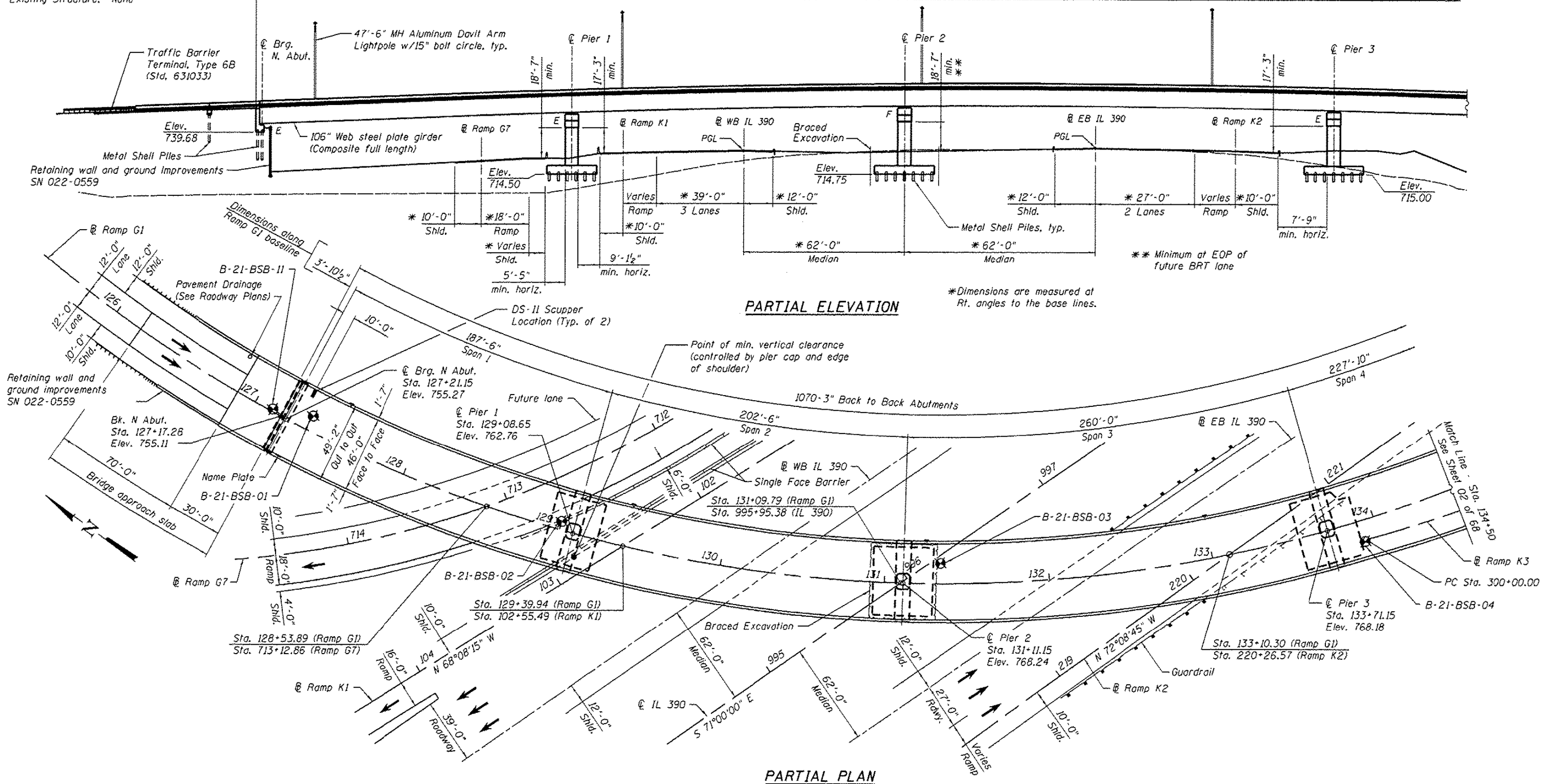
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	2020-026-BR	VARIOUS	58	47
			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

FOR INFORMATION ONLY

Bench Mark: BM #716 Cut square in the northwest end of bridge wall, Approximately 65 feet north of the centerline of Thorndale Ave. and 168 feet west of the centerline of I-290, approximately 12 feet west of bridge deck. Elev. 731.40 NAVD88

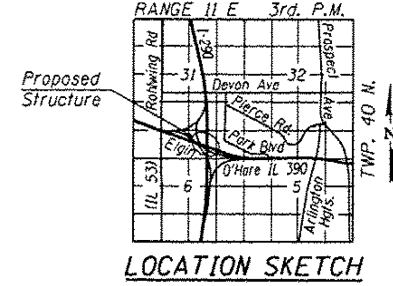
Existing Structure: None

1070'-3" Back to Back Abutment measured along @ Ramp G1



PARTIAL ELEVATION

PARTIAL PLAN



GENERAL PLAN & ELEVATION-1
RAMP G1 OVER RAMP G7, IL 390 & I-290
F.A.P. RTE. 345
SECTION 2013-083-R&B
DUPAGE COUNTY
STATION 995+95.38
STRUCTURE NO. 022-0557

MODEL: Default
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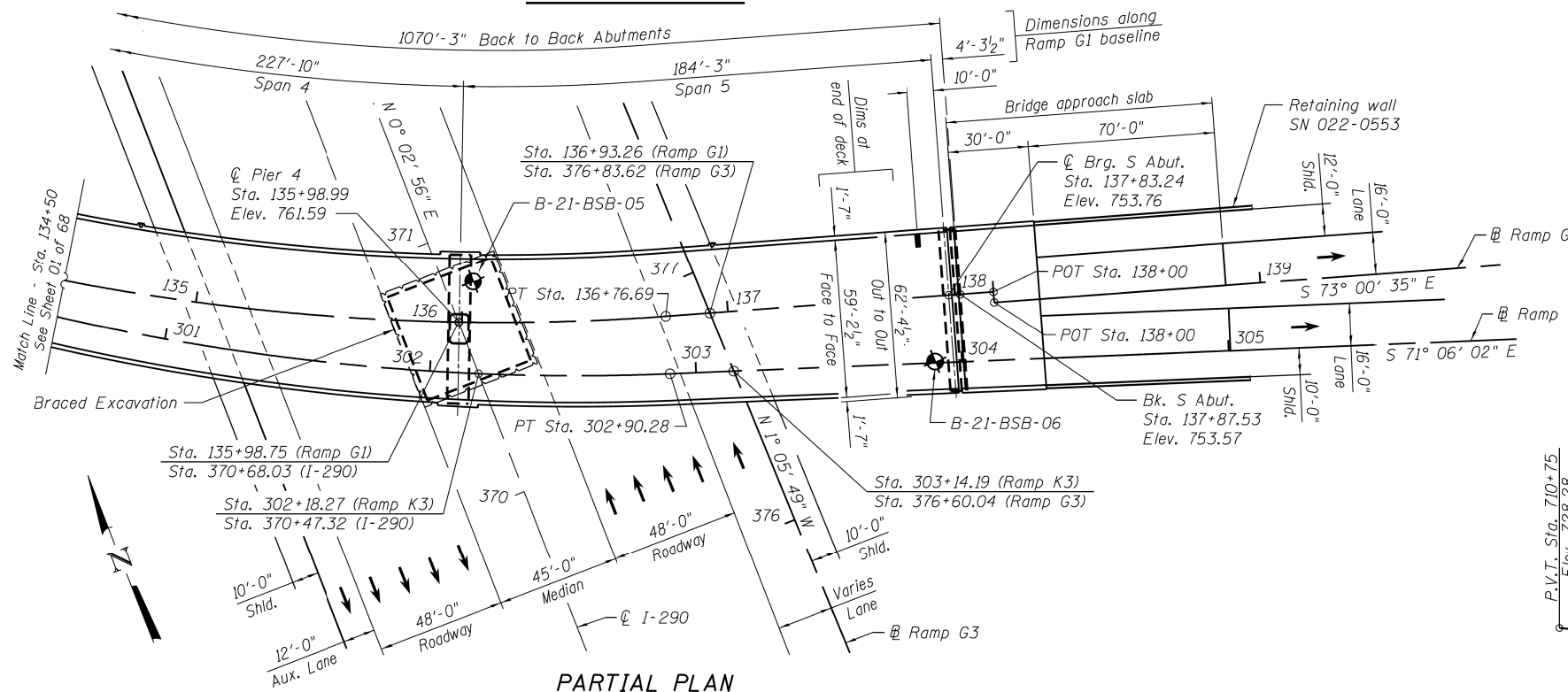
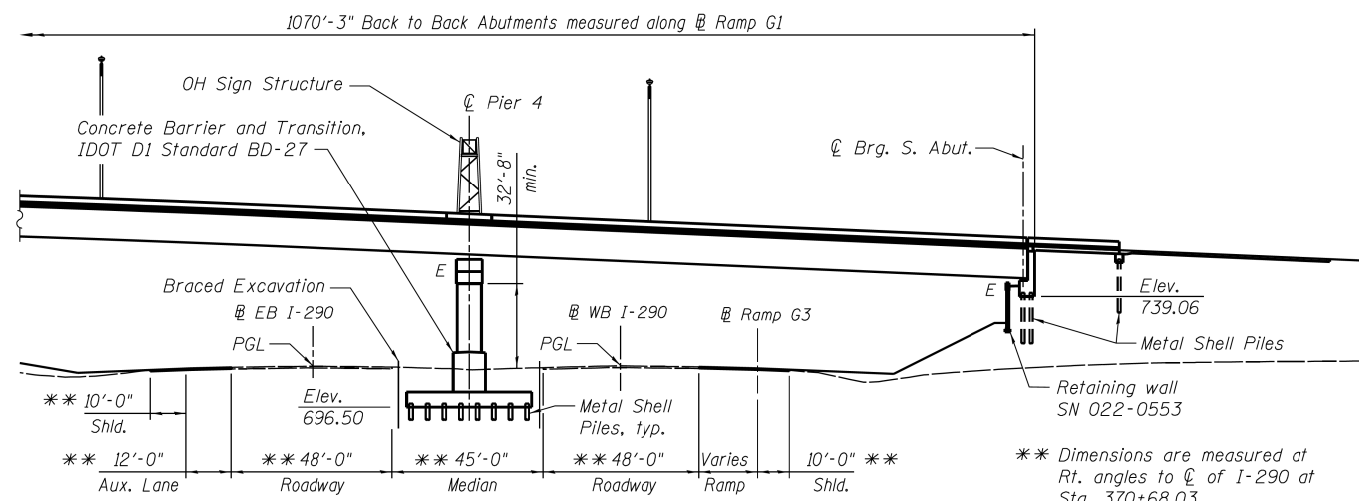
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	DRAWN -	REVISED -
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PLOT DATE = 3/25/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390	
SN: 022-0557	
SCALE:	TO STA.
SHEET 1 OF 6 SHEETS	STA.

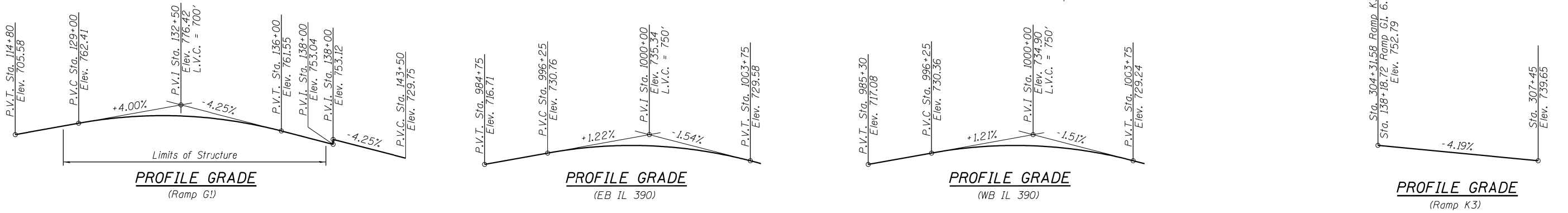
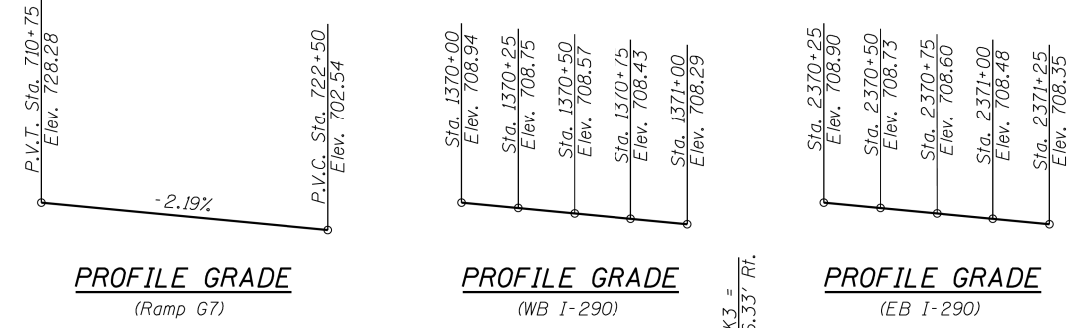
VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	48
			CONTRACT NO. 62K97	
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



HORIZONTAL CURVE DATA		HORIZONTAL CURVE DATA		HORIZONTAL CURVE DATA	
(Along @ Ramp G1)		(Along @ Ramp K3)		(Along @ Ramp G7)	
PI Sta.	= 132+00.31	PI Sta.	= 301+46.52	PI Sta.	= 713+70.30
Δ	= 96°49'35" (LT)	Δ	= 19°12'34" (LT)	Δ	= 34°36'39" (RT)
D	= 6°46'21"	D	= 6°37'03"	D	= 9°32'57"
R	= 846.00'	R	= 865.81'	R	= 600.00'
L	= 1429.69'	L	= 290.26'	L	= 362.44'
E	= 428.57'	E	= 12.31'	E	= 28.45'
T	= 953.32'	T	= 146.52'	T	= 186.94'
S.E.	= 6.0%	S.E.	= varies 6.0% to 2.0%	S.E.	= 5.6%
S.E. RUN	= 136+35 to 137+65	P.C. STA.	= 300+00.00	P.C. STA.	= 711+83.36
P.C. STA.	= 122+47.00	P.T. STA.	= 302+90.28	P.T. STA.	= 715+45.80
P.T. STA.	= 136+76.69				

Design Note: This bridge, which includes the girders, crossframes, pier caps, pier columns, footings and piling has been designed to handle a future loading condition. That future loading condition is the staged removal and replacement of the existing deck/slab while one (1) lane of live load traffic utilizes the other half of the bridge deck/slab.



MODEL: Default
FILE: 140220-CADD-Data/Drawings/D1-022-0553.dwg

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PLOT DATE	= 3/25/2020				

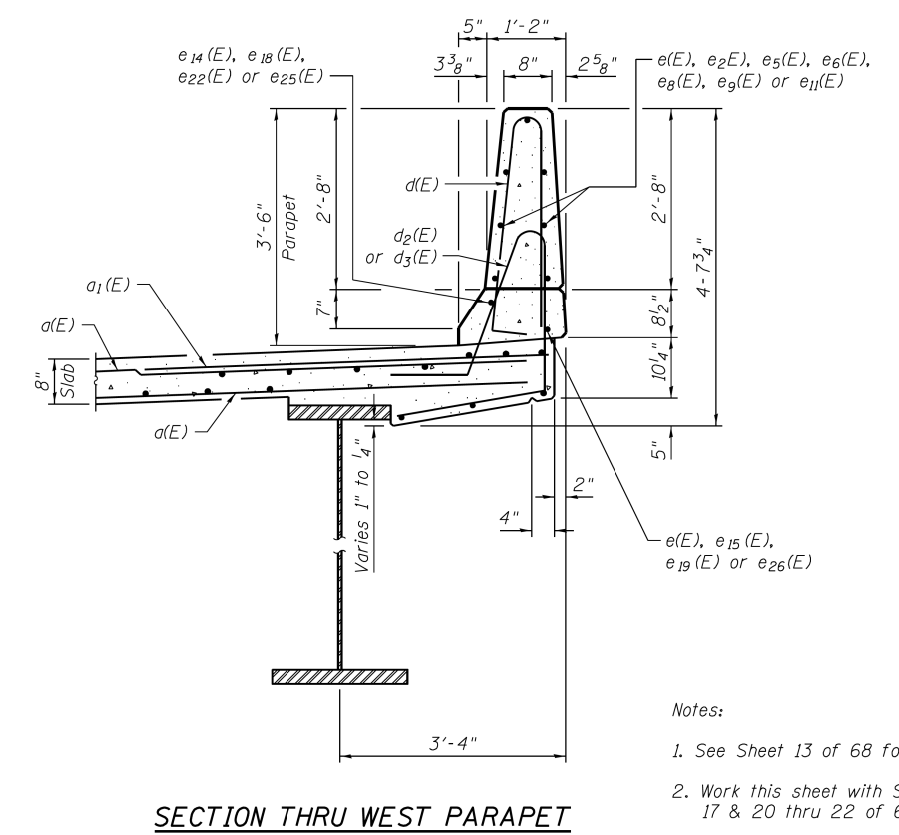
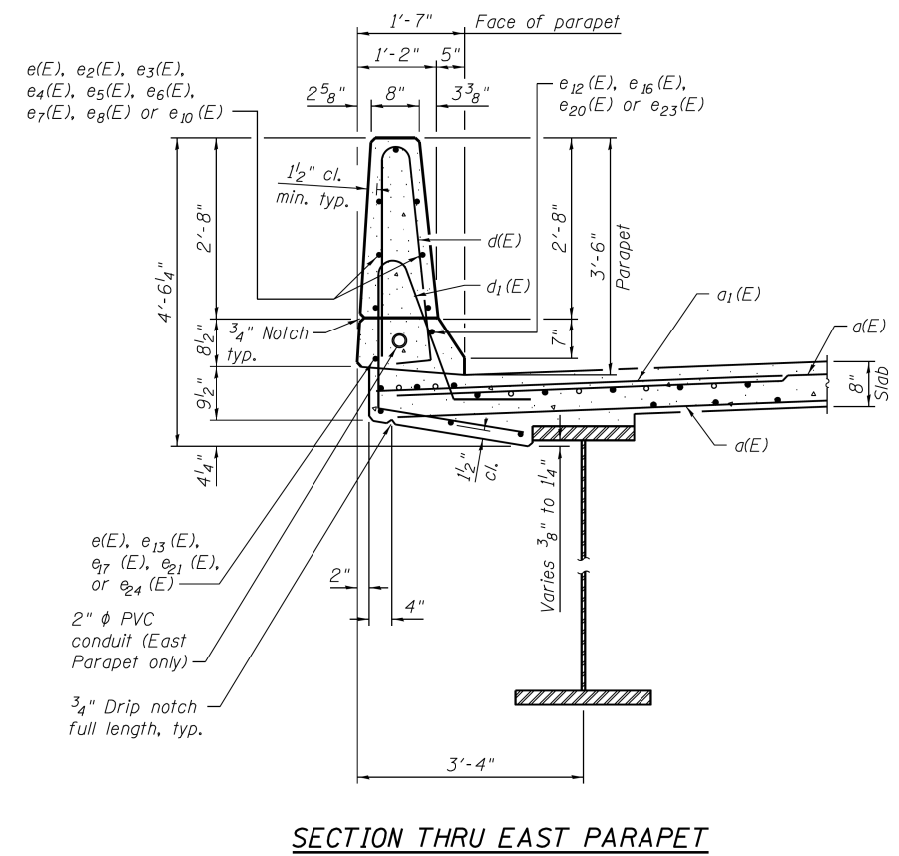
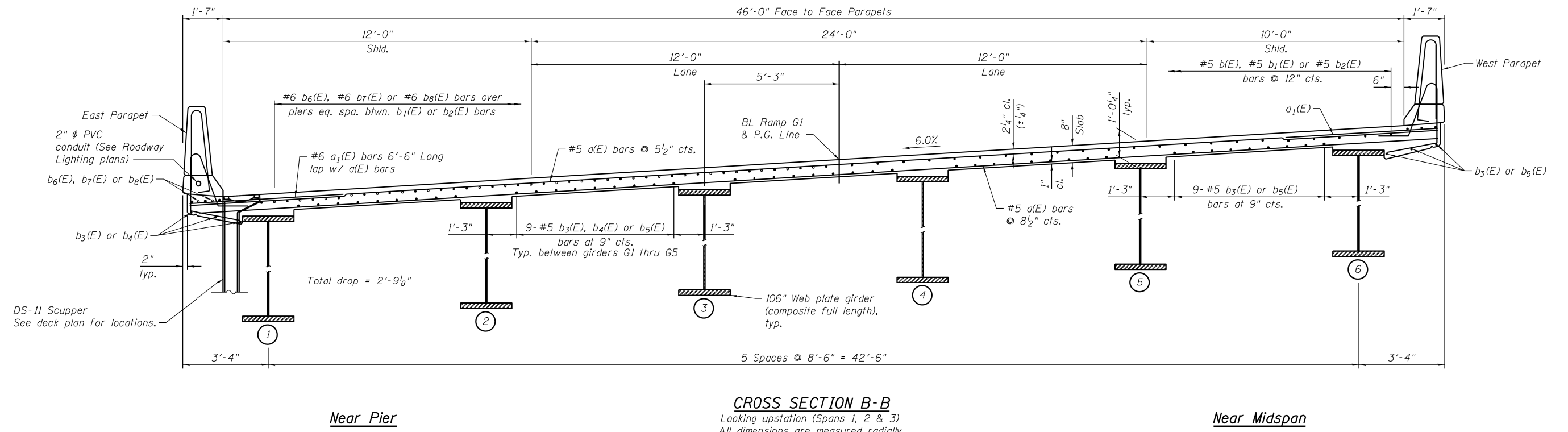
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390
SN: 022-0557**

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	2020-026-BR	VARIOUS	58	49
CONTRACT NO. 62K97			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



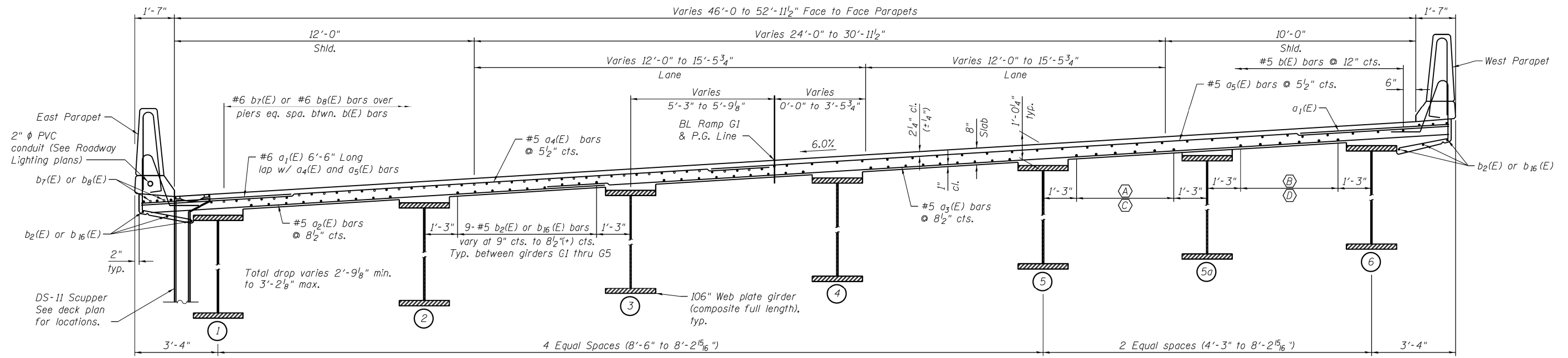
Notes:

- See Sheet 13 of 68 for deck notes.
- Work this sheet with Sheets 13 thru 17 & 20 thru 22 of 68.

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	CHECKED -	REVISED -			CONTRACT NO. 62K97				
	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
	SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.								

FOR INFORMATION ONLY



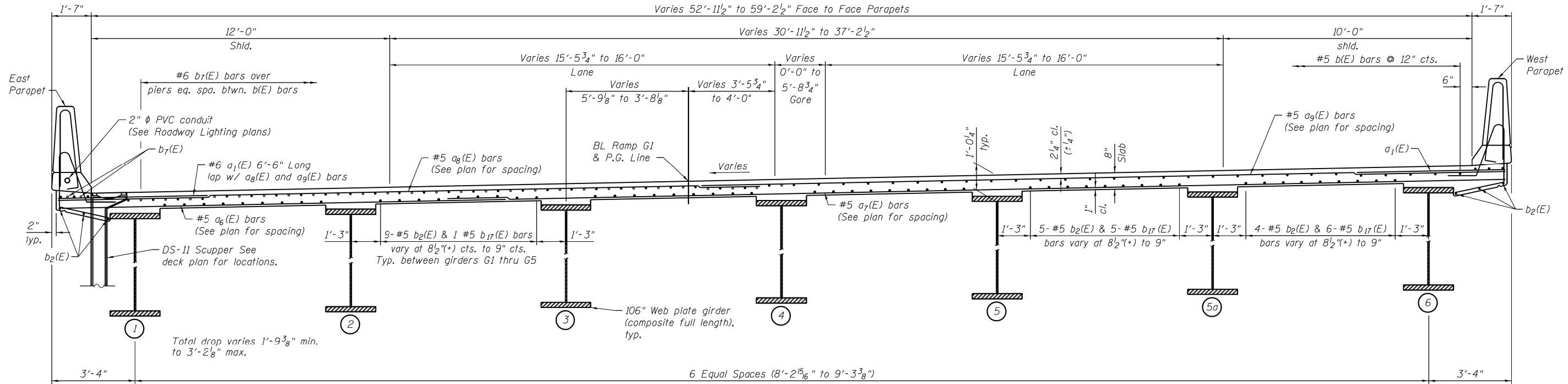
Near Pier

CROSS SECTION C-C

Looking upstation (Span 4)
All dimensions are measured radially

Near Midspan

- Ⓐ 5- #5 b₁₆(E) bars at 5 1/4" cts. @ Pier 3
- Ⓑ 4- #5 b₁₆(E) bars at 7" cts. @ Pier 3
- Ⓒ 5- #5 b₂(E) & 4- #5 b₁₀(E) bars at 9" cts. @ Pier 4
- Ⓓ 4- #5 b₂(E) & 5- #5 b₁₀(E) bars at 9" cts. @ Pier 4



Near Pier

CROSS SECTION D-D

Looking upstation (Span 5)
All dimensions are measured radially

Near Midspan

- Notes:
- See Sheet 13 of 68 for deck notes.
 - Work this sheet with Sheets 13 thru 17 & 20 thru 22 of 68.

MODEL: Default
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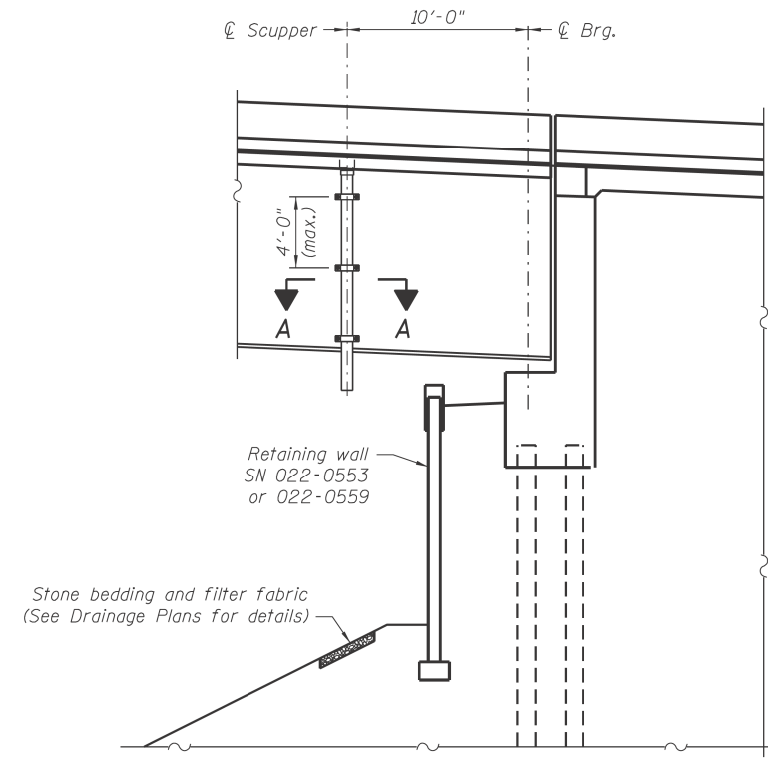
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390
SN: 022-0557**

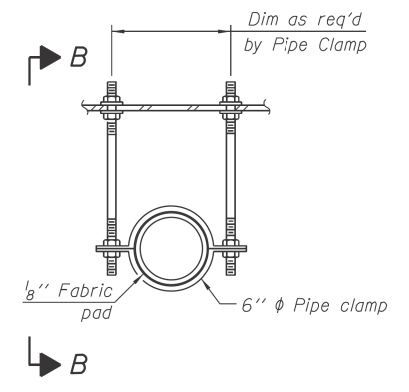
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VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

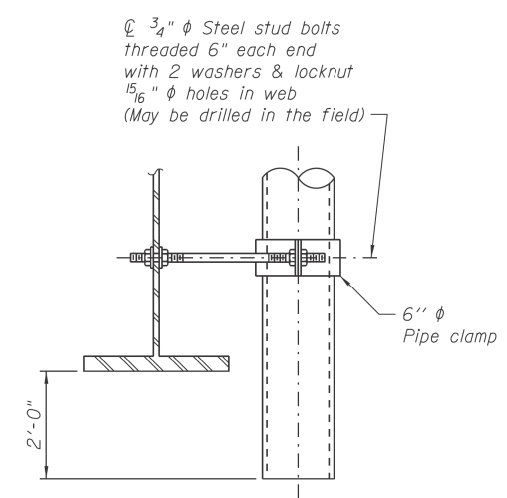
FOR INFORMATION ONLY



ELEVATION VIEW - ABUTMENT
(South abutment as shown, North abutment similar)



SECTION A-A



VIEW B-B

Note: Costs for pipe clamps, fabric pads, steel stud bolts, locknuts, washers and drilling holes are all included with Drainage Scuppers, DS-11

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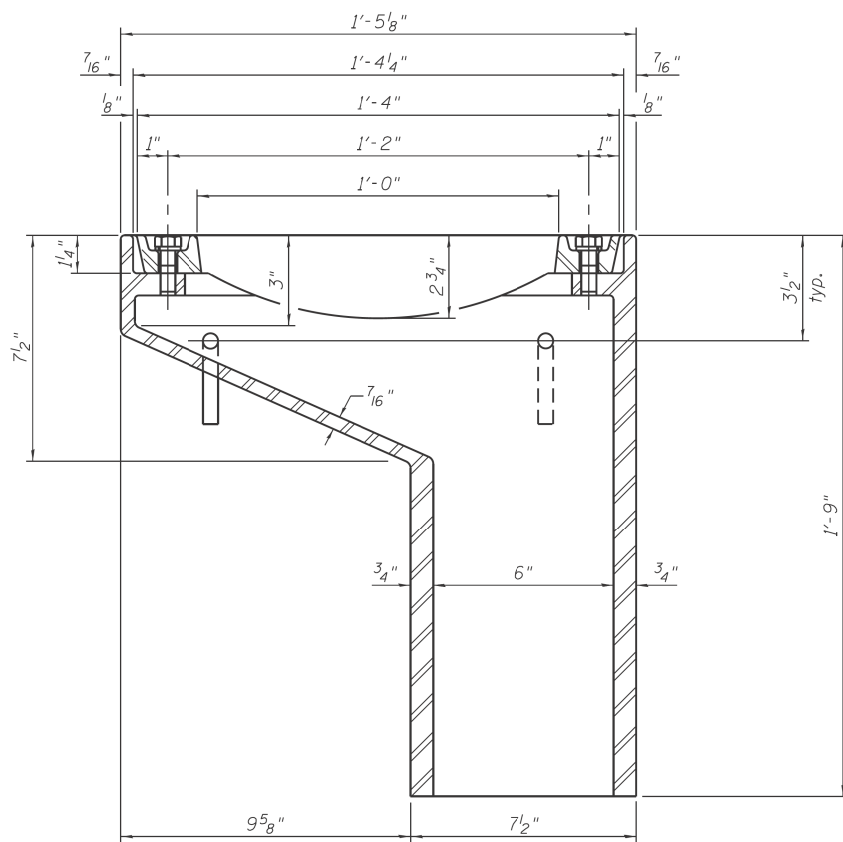
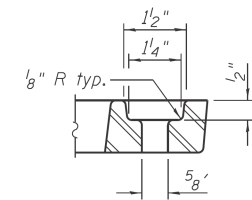
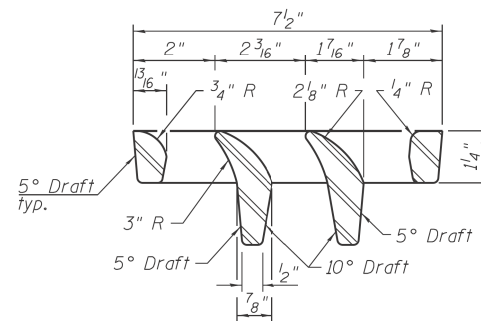
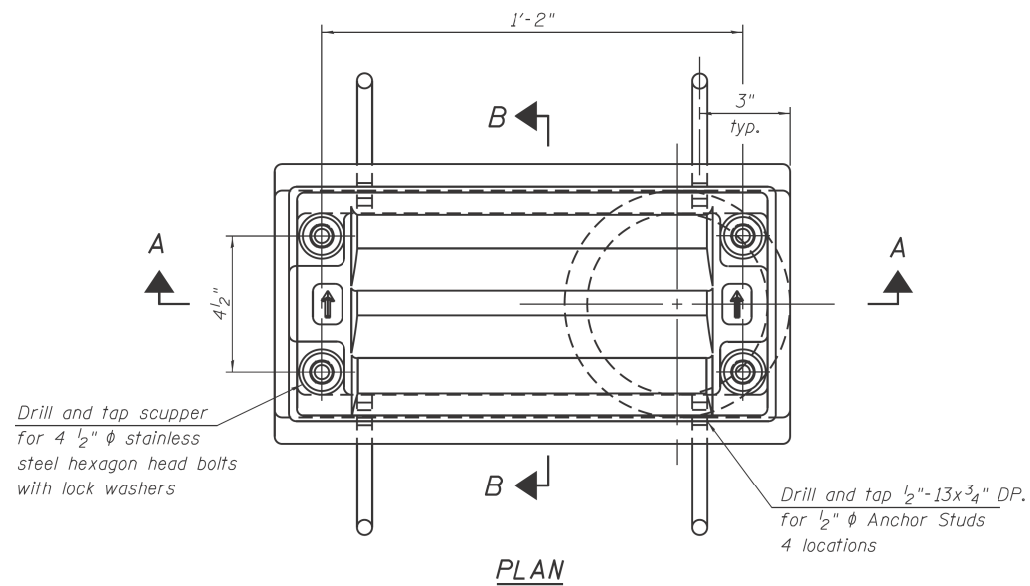
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390
SN: 022-0557**

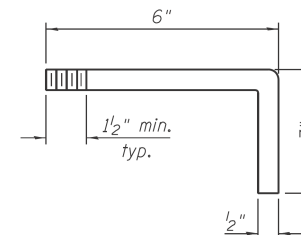
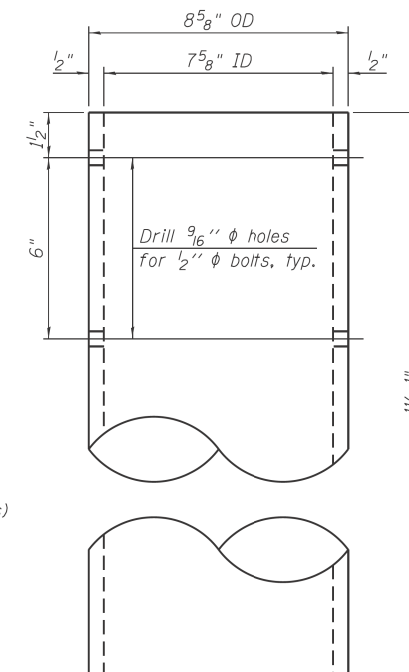
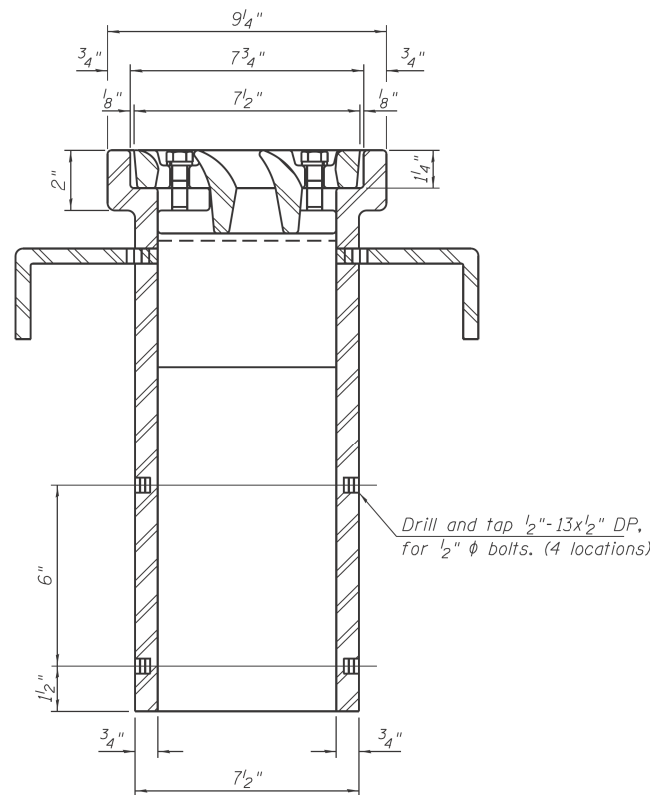
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VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2020-026-BR	VARIOUS	58	52
CONTRACT NO. 62K97				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



See Sheet 24 of 68 for scupper location relative to parapet



Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

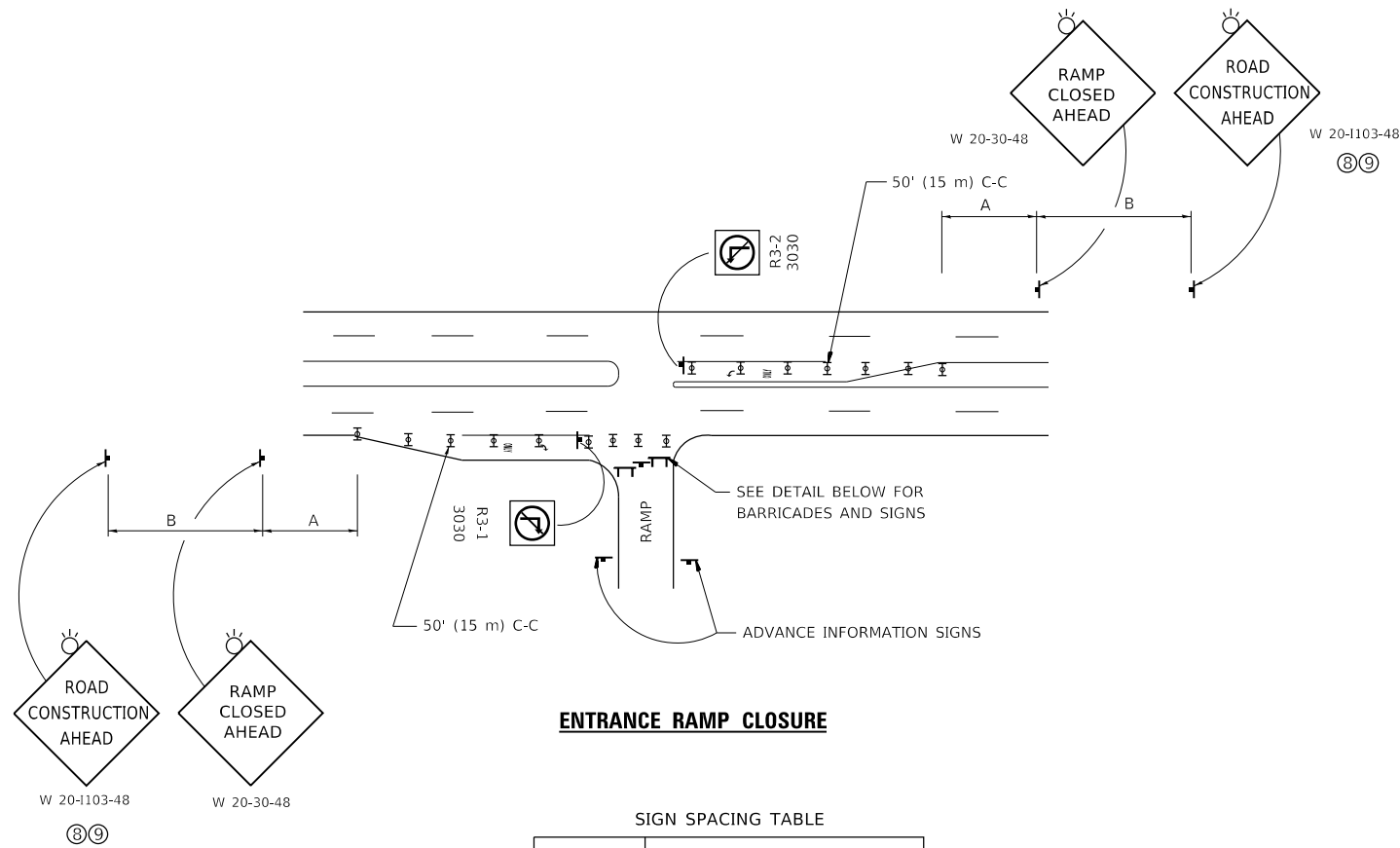
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 DESIGNED: diazia
 DRAWN: diazia
 CHECKED: diazia
 DATE: 3/25/2020

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION 6: I-290 EB TO IL 390 EB OVER IL 390
SN: 022-0557**

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

VAR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 62K97	
		ILLINOIS	FED. AID PROJECT	

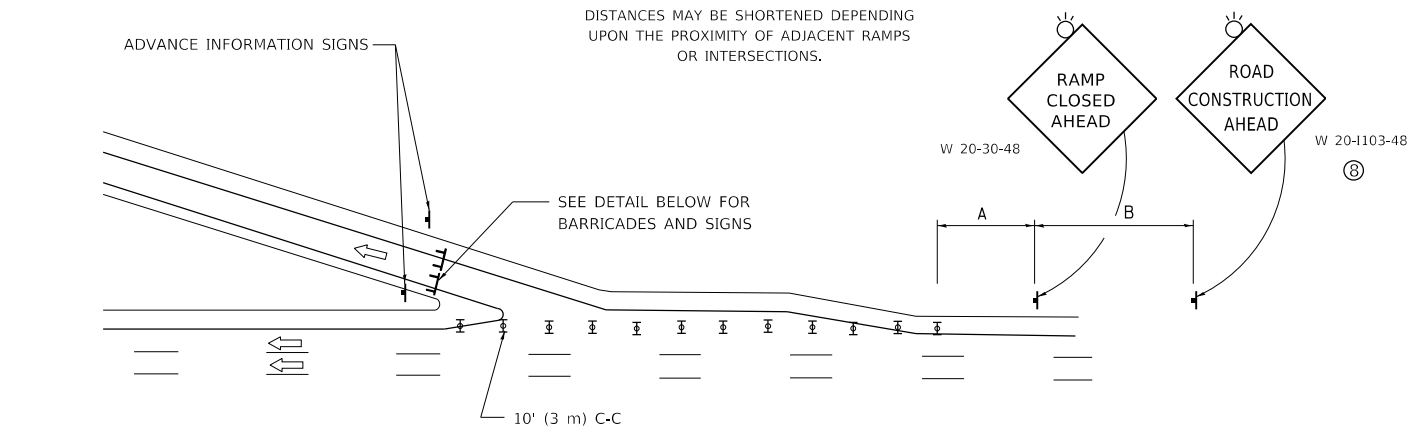


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

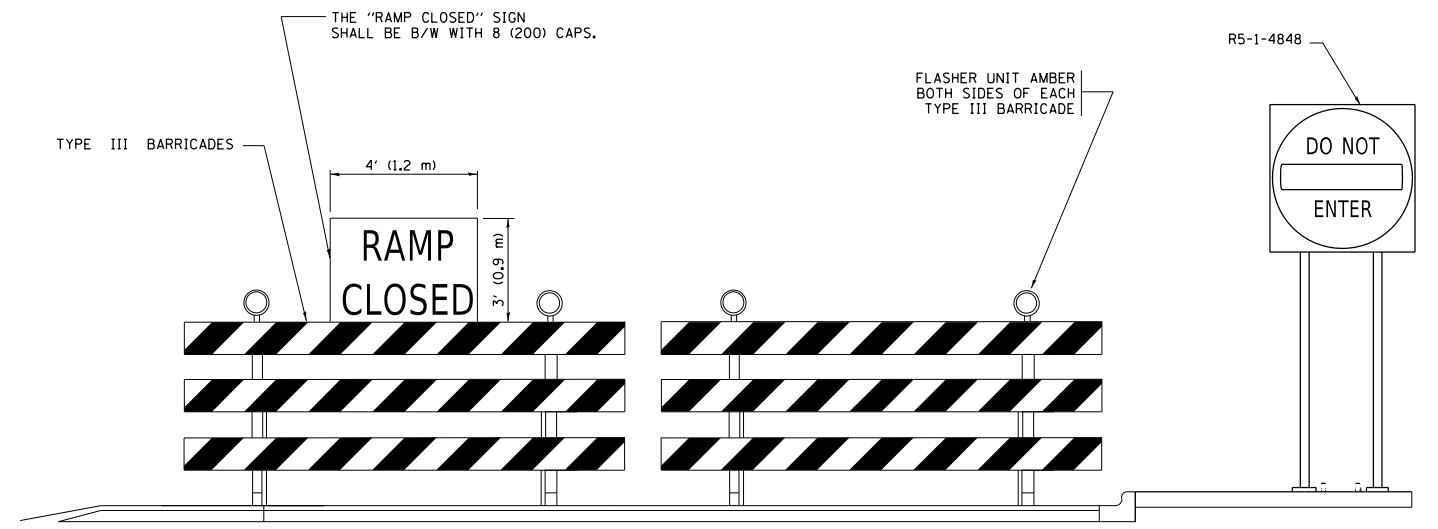
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

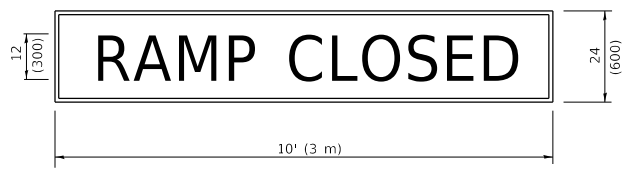
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



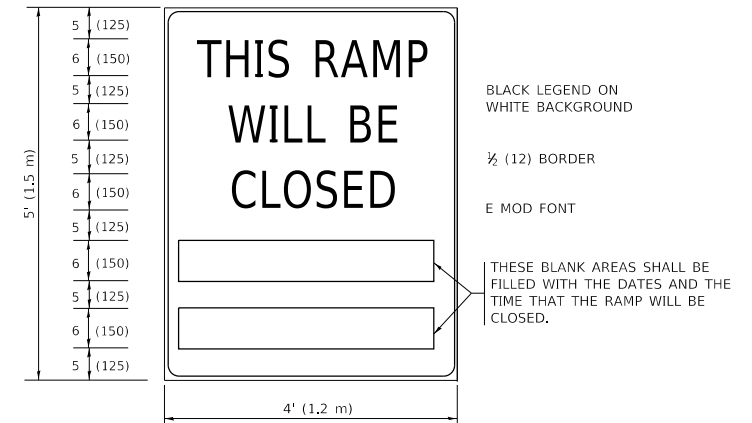
DETAIL FOR REQUIRED BARRICADES & SIGNS

RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY E MOD FONT 1 (25) BORDER
 THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.
 THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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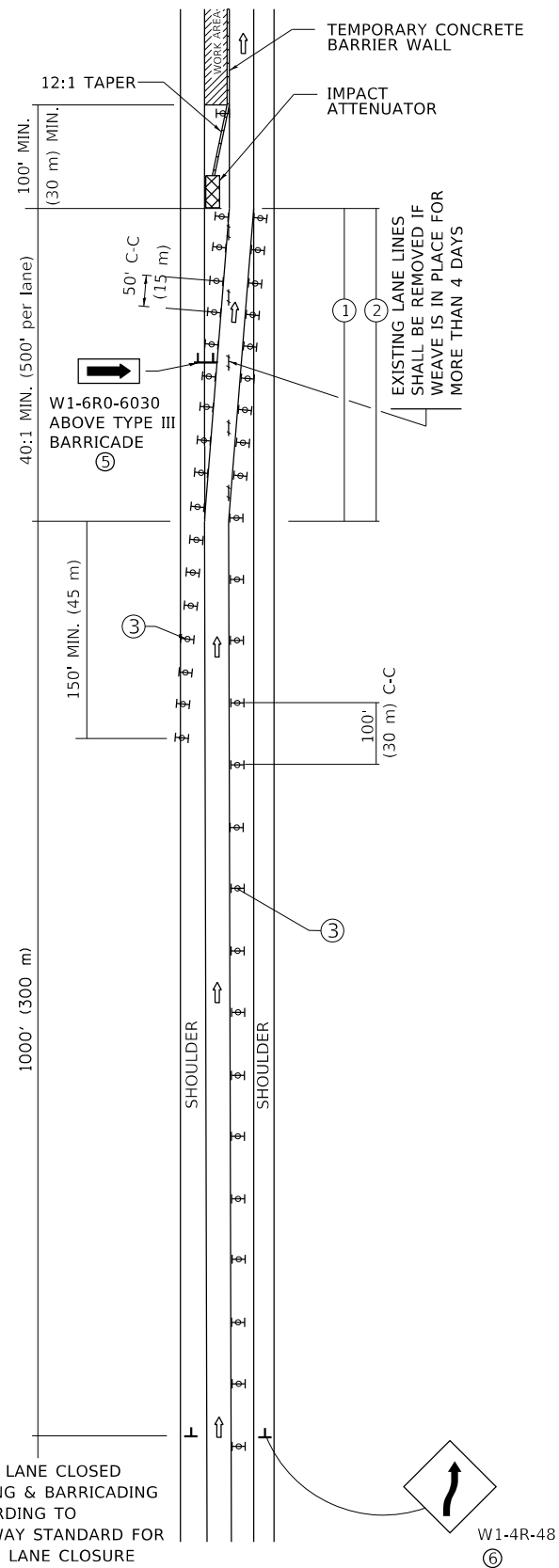
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ENTRANCE_AND_EXIT_RAMP
 CLOSURE_DETAILS**

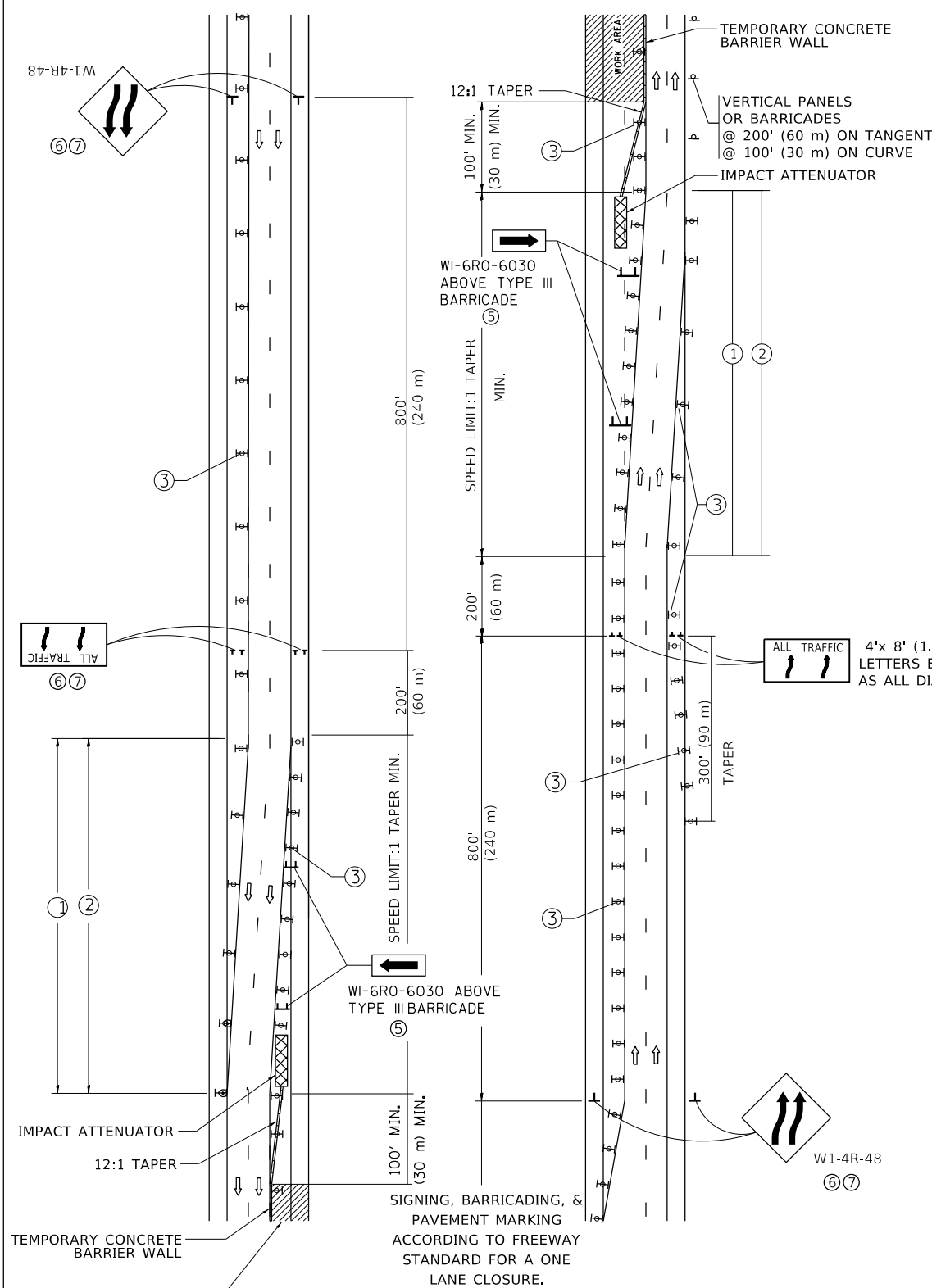
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VARIOUS	58	54
TC-08		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES:

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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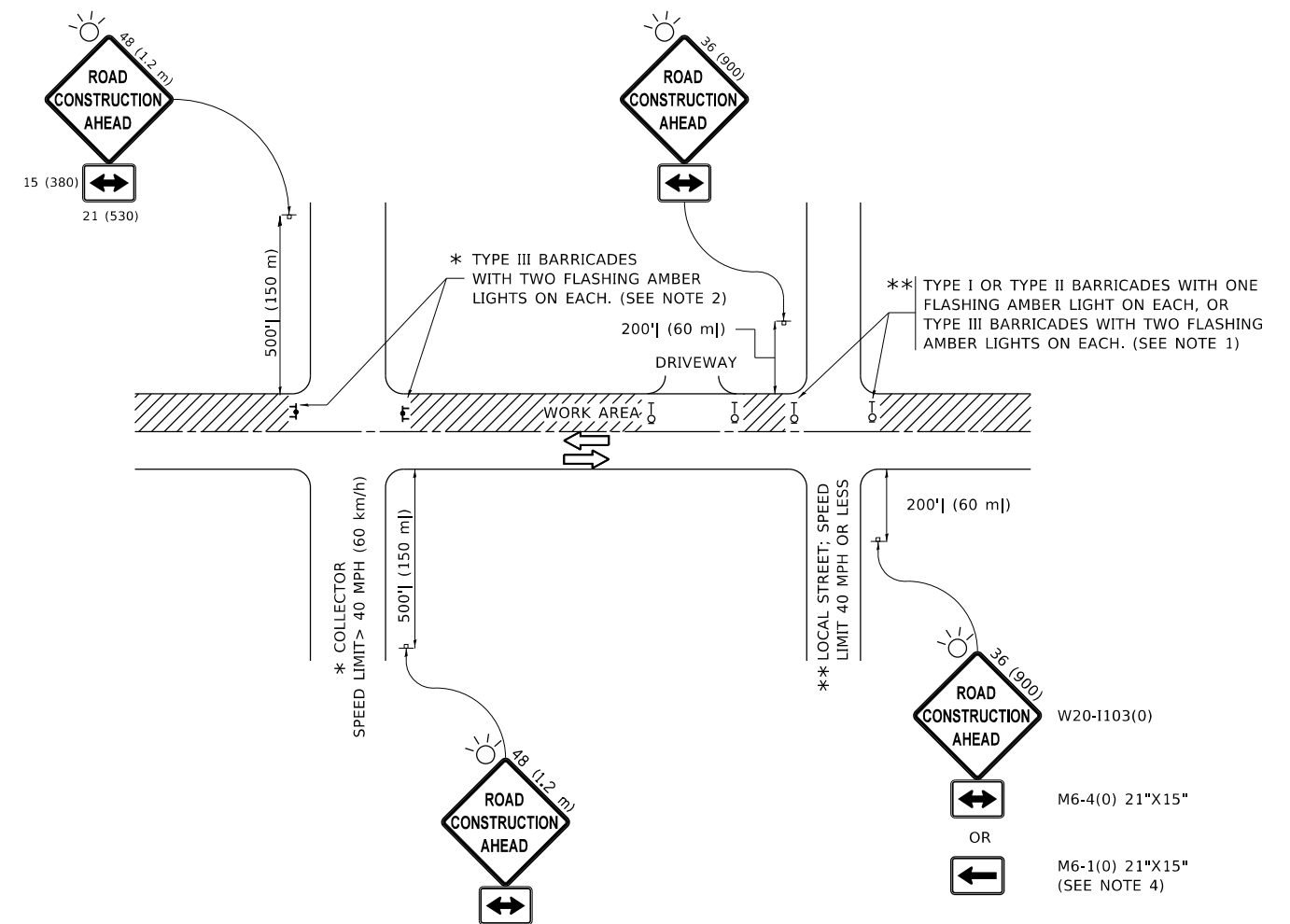
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR
FREEWAY SINGLE & MULTI-LANE WEAVE**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	TC-09	VARIOUS	58	55
CONTRACT NO.				
ILLINOIS FED. AID PROJECT				



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT DATE = 3/25/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VARIOUS	58	56
TC-10			CONTRACT NO.	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

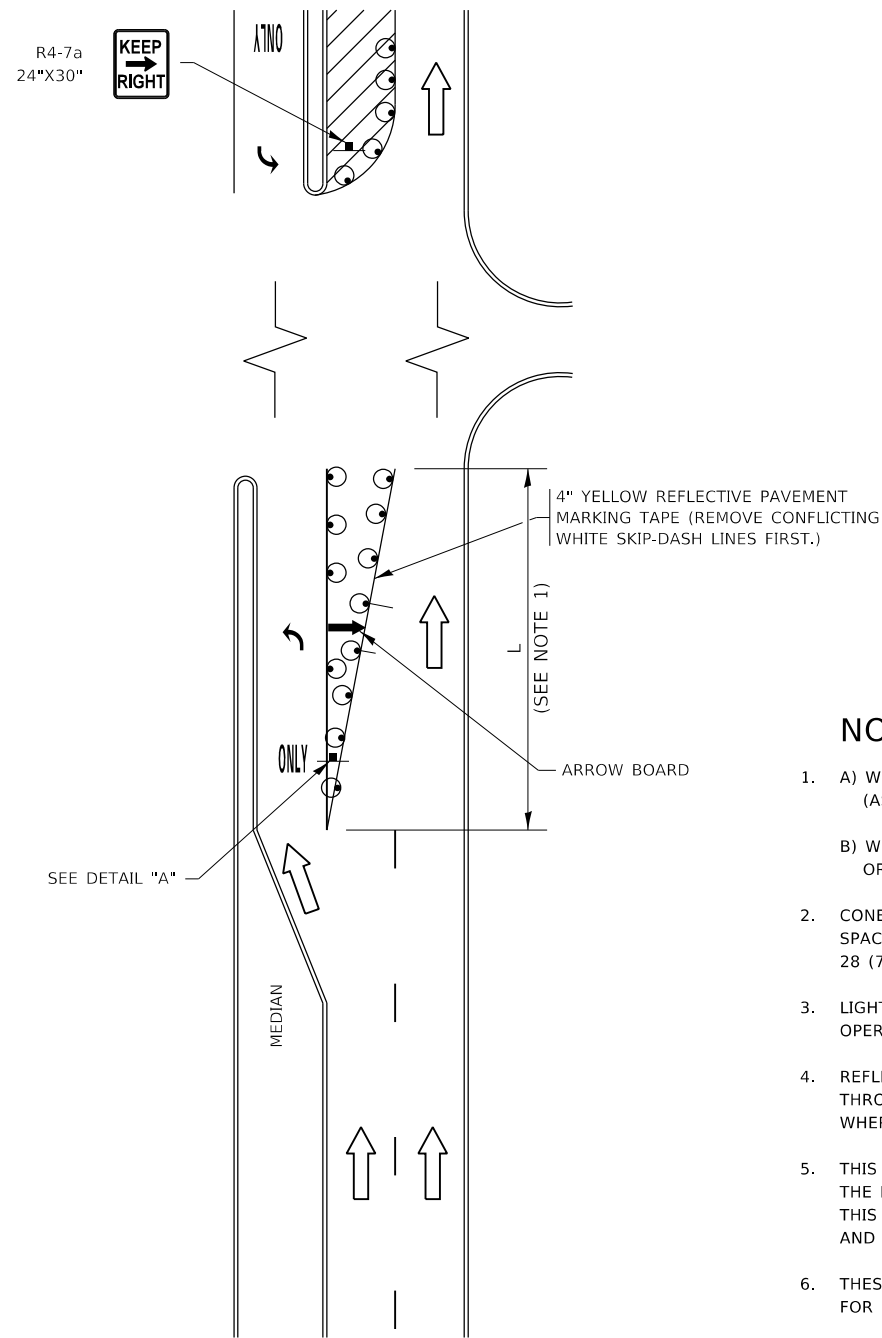


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

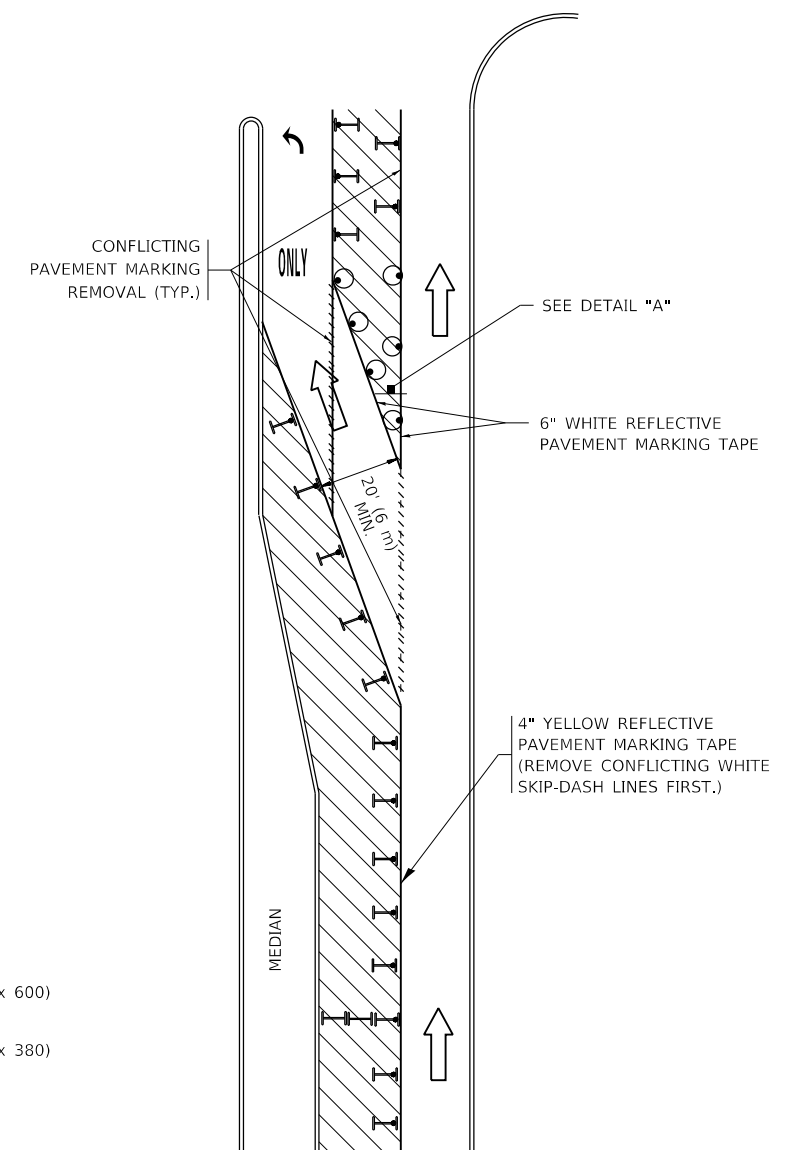


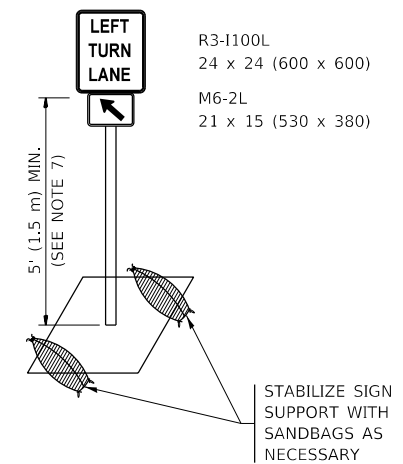
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS ≤ THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

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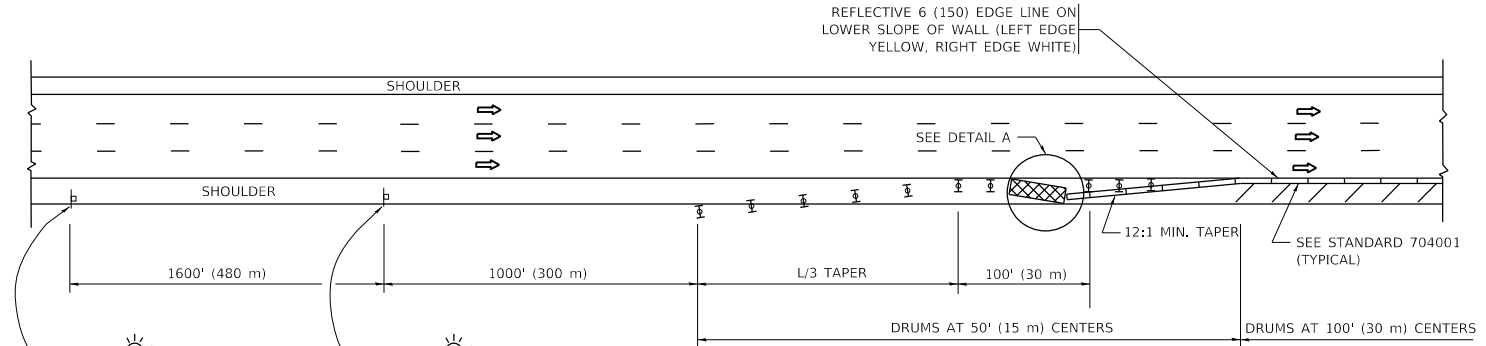
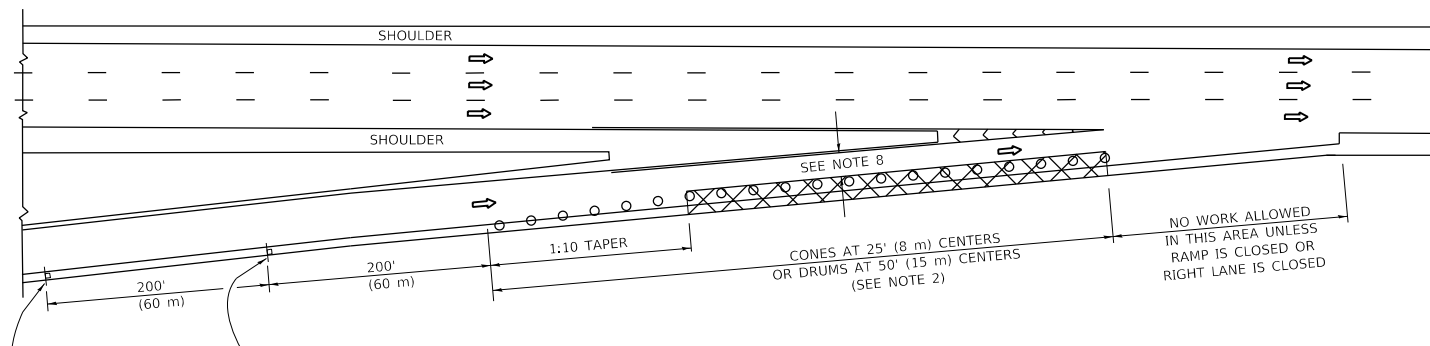
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	TC-14	VARIOUS	58	57
		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

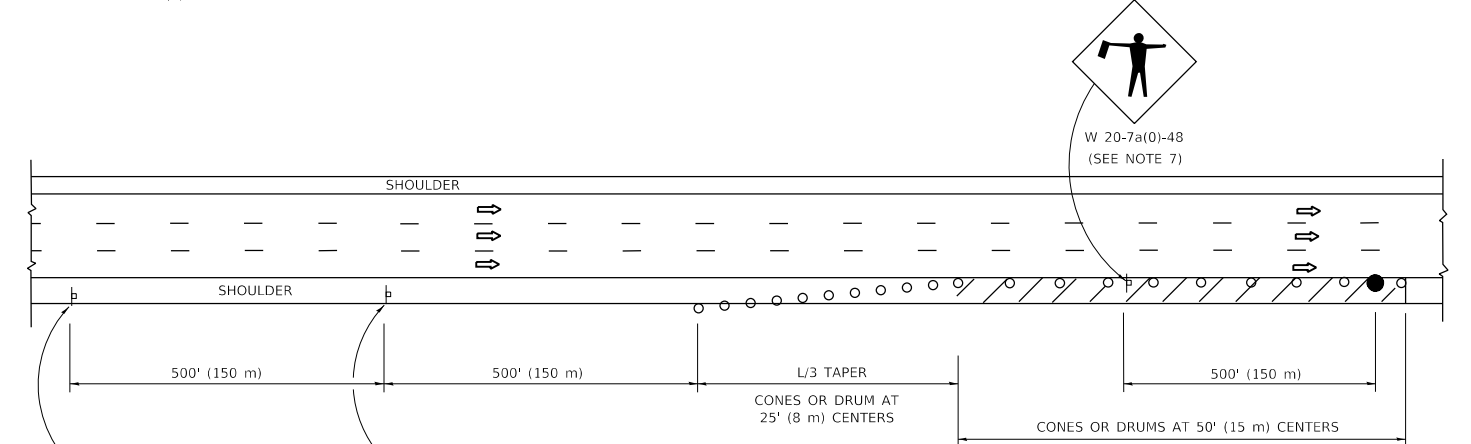
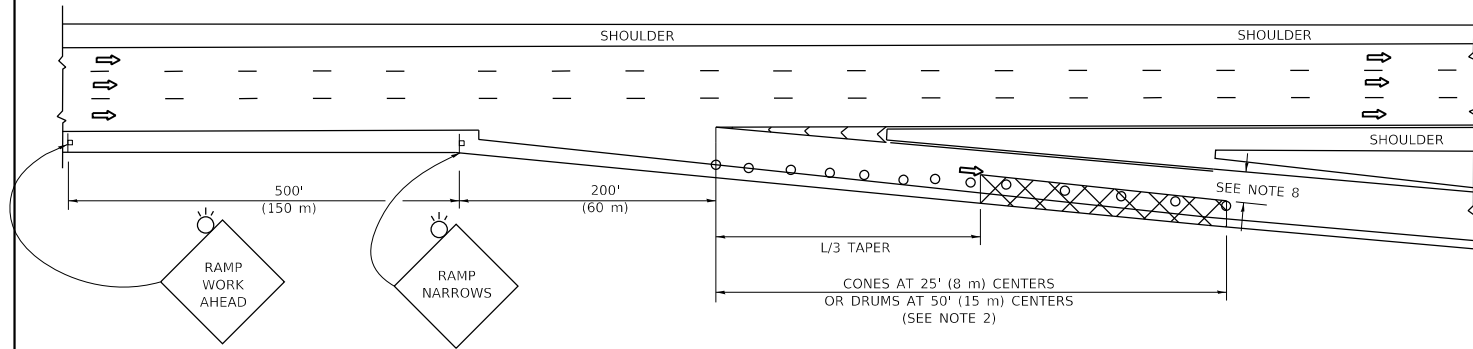
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS



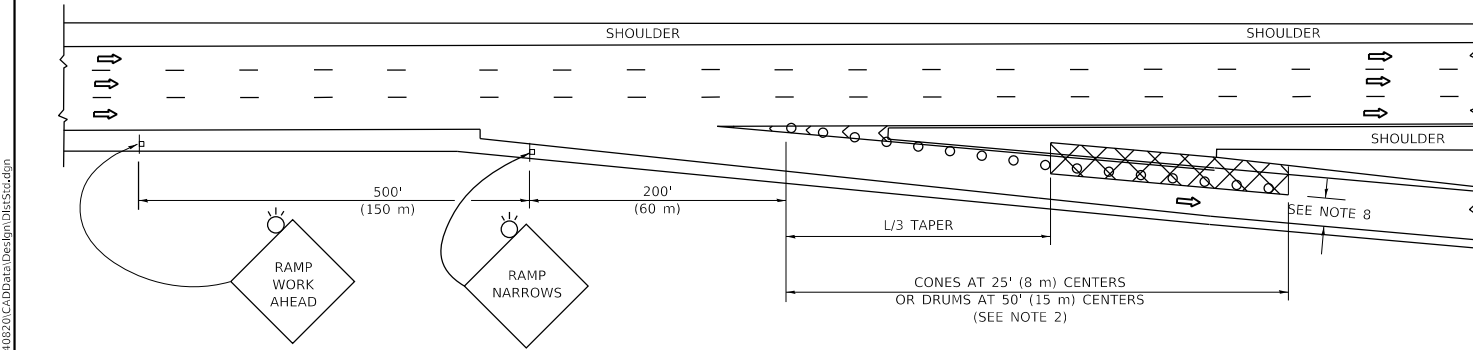
TYPICAL ENTRANCE RAMP

PERMANENT SHOULDER CLOSURE



TYPICAL EXIT RAMP

DAYTIME SHOULDER CLOSURE



TYPICAL EXIT RAMP

SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES:

- THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h)	METRIC ENGLISH
OR GREATER:	$L=0.65(WXS)$ $L=(WXS)$

 - W = WIDTH OF OFFSET IN FEET (METERS)
 - S = NORMAL POSTED SPEED MPH (KM/H)
- TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

- THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
- 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

- THIS DETAIL IS USED WHERE:
- VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350/MASH COMPLIANT.

**DETAIL "A"
IMPACT ATTENUATOR, TEMPORARY
(SEE NOTE 5)**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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PLOT DATE = 3/25/2020	DATE - 11-96	REVISED - M.D. 01-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL DETAILS FOR FREEWAY
SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.		VARIOUS	58	58
TC-17		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				