

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CUY-90-20.35

CITY OF CLEVELAND
CUYAHOGA COUNTY

PROJECT DESCRIPTION:

REHABILITATION OF 7 BRIDGES ALONG I-90 IN THE CITY OF CLEVELAND BY 7 DECKS, RAISING ONE PEDESTRIAN BRIDGE.

PROJECT EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTURBED AREA - N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA - NA (MAINTENANCE PROJECT)

2002 SPECIFICATIONS

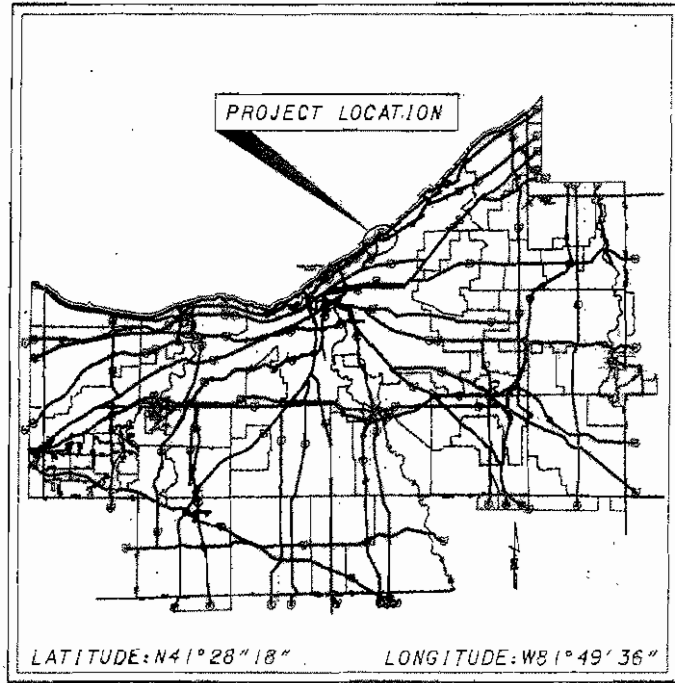
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF I-90 AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

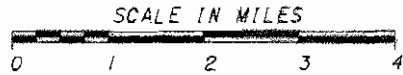
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF VALLEY VIEW DRIVE AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH IN THE PLANS AND ESTIMATES.

APPROVED *[Signature]*
DATE *11-27-02* DISTRICT DEPUTY DIRECTOR

APPROVED *[Signature]*
DATE *11-2-02* DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP



PORTION TO BE IMPROVED -----
STATE & FEDERAL ROUTES -----
OTHER ROADS -----

DESIGN DESIGNATION

CURRENT ADT (2002) ----- 127,598
DESIGN YEAR ADT (2022) ----- 145,773
DESIGN HOURLY VOLUME (2022) ----- 14,577
DIRECTIONAL DISTRIBUTION ----- 55%
TRUCKS (24 HOUR B&C) (2002) ----- 9,140
DESIGN ADTT (2022) ----- 9,640
DESIGN SPEED ----- 60 MPH
LEGAL SPEED ----- 55 MPH
DESIGN FUNCTIONAL CLASSIFICATION - URBAN INTERSTATE

DESIGN EXCEPTIONS:

NONE

LINE DATA

PROJECT LIMITS:

STA. 198+31.9 TO STA. 309+56.76 - 8190.36 L.F.

INDEX OF SHEETS:

TITLE SHEET	-----	1
TYPICAL SECTION	-----	2
LOCATION MAP	-----	3
SCHEMATIC	-----	4-5
GENERAL NOTES	-----	6-10
ESTIMATED QUANTITIES	-----	11
STRUCTURE PLANS	-----	12-61
MOT	-----	62-100
TRAFFIC CONTROL	-----	102-103

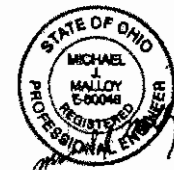
Sheet 86 and 97 NOT USED

STANDARD CONSTRUCTION DRAWINGS

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS							
HL-30.31	1/17/03	MT-95.10	4/20/01	MT-102.10	10/18/02	GR-3.1	4/18/03	AS-1-81	7/19/02	832	2/12/2003	
HL-30.32	4/19/02	MT-95.30	4/19/02	MT-102.20	10/18/02	GR-3.2	4/18/03	BR-1	7/19/02	833	2/12/2003	
HL-50.11	7/20/01	MT-95.31	4/19/02	MT-110.30	10/18/02	GR-6.1	4/18/03	EXJ-4-87	7/19/02	846	4/19/2002	
HL-50.21	4/19/02	MT-95.40	7/18/03			RM-2.1	4/18/03	PCB-91	7/19/02	864	7/11/2000	
HL-60.12	7/20/01	MT-95.41	7/18/03			RM-4.2	4/18/03	VPF-1-90	7/19/02	954	9/9/1997	
		MT-98.12	4/19/02			BP-2.3	7/28/00					
		MT-98.13	4/19/02			BP-3.1	7/28/00					
		MT-98.14	4/19/02			F-1.1	7/28/00					
		MT-98.15	4/19/02			F-3.1	7/28/00					
		MT-98.16	4/19/02			TC-65.10	10/19/01					
		MT-98.17	10/18/02			TC-65.11	10/19/01					
		MT-98.18	10/18/02									
		MT-98.19	10/18/02									
		MT-101.20	10/18/02									
		MT-101.60	10/18/02									
		MT-101.70	10/18/02									

UNDERGROUND UTILITIES
TWO WORKING DAYS
BEFORE YOU DIG
CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

PLAN PREPARED BY:
OHIO DEPARTMENT OF
TRANSPORTATION
DISTRICT 12
PRODUCTION



ARMY CORP
NATION WIDE PERMIT #3

ASBESTOS ABATMENT

FEDERAL PROJECT NO. E036 (719)
PID NO. 0019685
CONSTRUCTION PROJECT NO. 001354
RAILROAD INVOLVEMENT NONE
CUYAHOGA COUNTY CUY-90-20.35
1/103

Production

PLOT SUBMITTED: \$\$\$\$\$SYTIME\$\$\$\$\$
CUY-90-20.35
040292 PID #19685
DIST 12 05-05-04
PLOT BY: JAM
PLOT FROM: JAM

PLOTTED BY: mmc
PLOTTED FROM: I:\PROJECTS\PI\19685\LOCATION.dwg
FILENAME: DGN
15-SEP-2003 19:28

LAKE ERIE

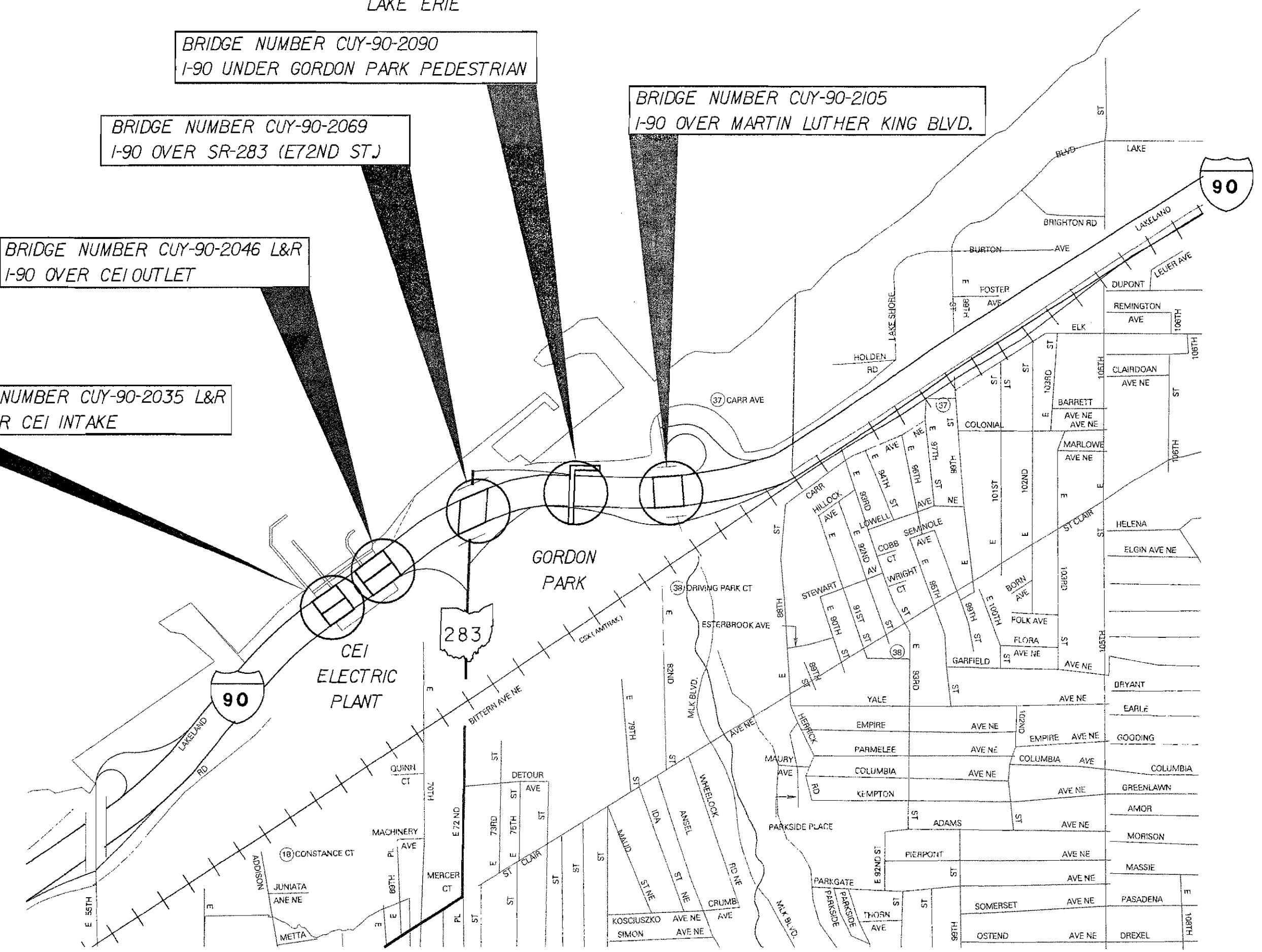
BRIDGE NUMBER CUY-90-2090
I-90 UNDER GORDON PARK PEDESTRIAN

BRIDGE NUMBER CUY-90-2069
I-90 OVER SR-283 (E72ND ST)

BRIDGE NUMBER CUY-90-2046 L&R
I-90 OVER CEI OUTLET

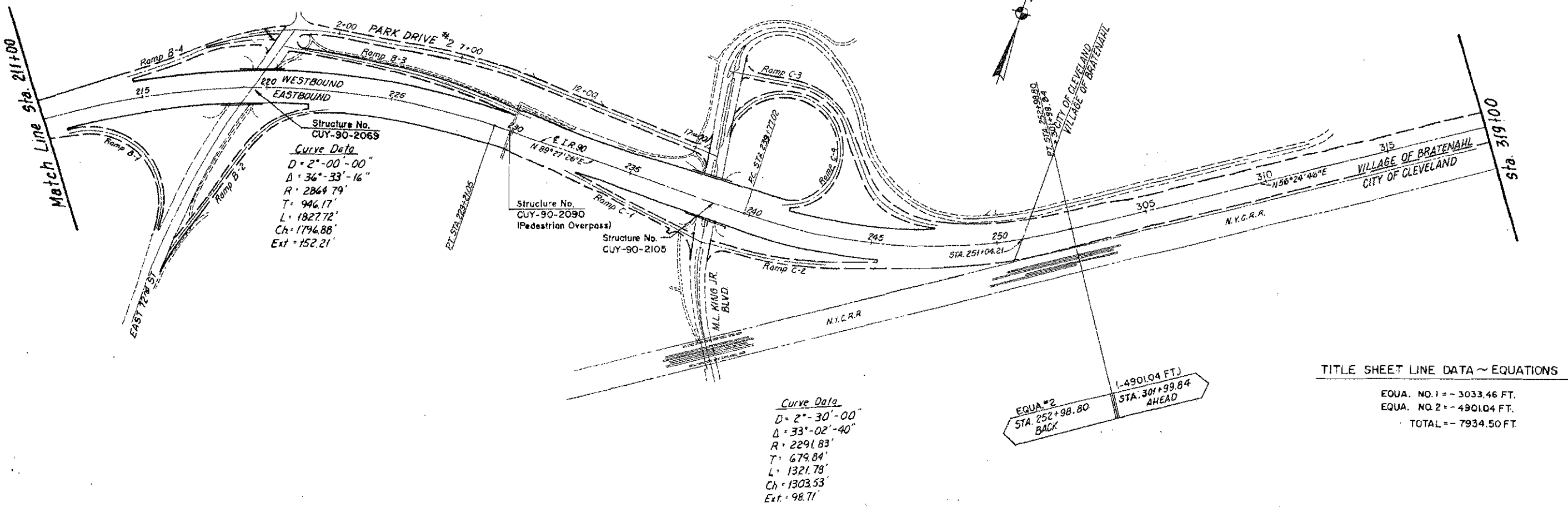
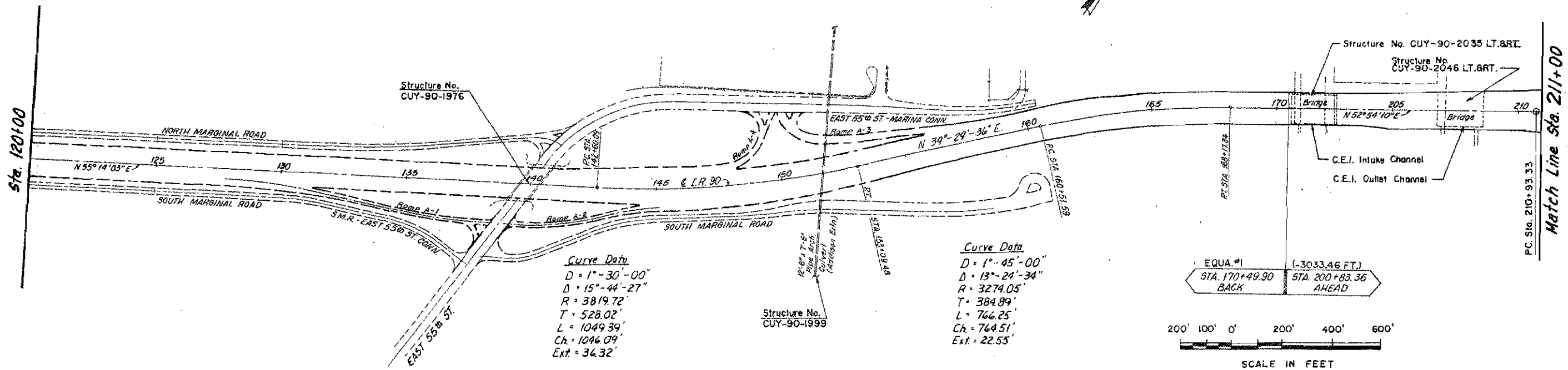
BRIDGE NUMBER CUY-90-2035 L&R
I-90 OVER CEI INTAKE

BRIDGE NUMBER CUY-90-2105
I-90 OVER MARTIN LUTHER KING BLVD.



LOCATION MAP

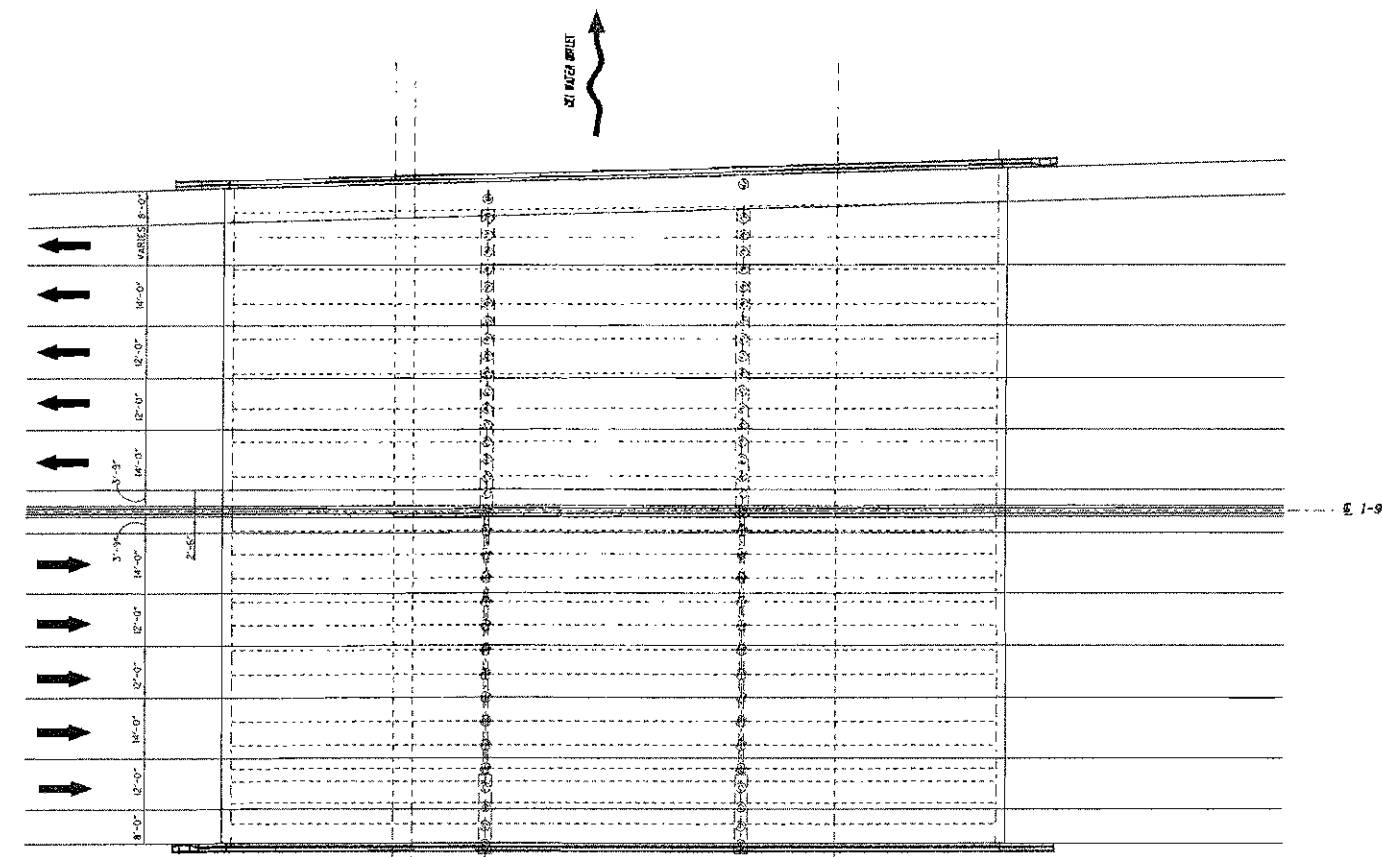
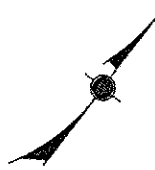
CUYAHOGA COUNTY
CUY-90-20.35



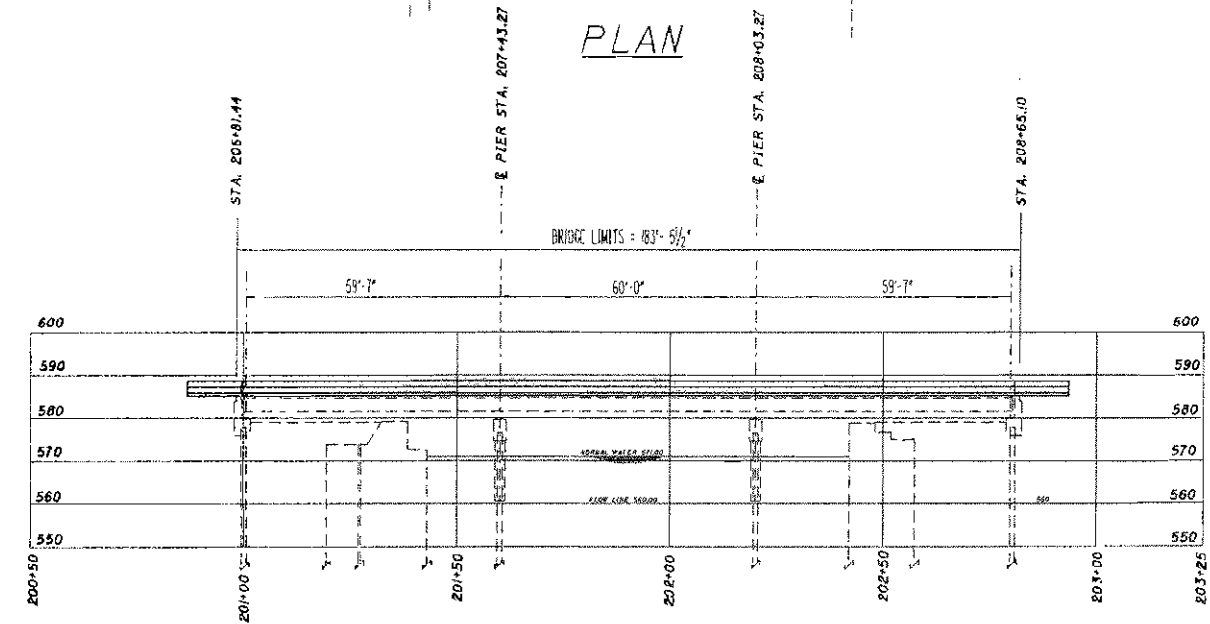
SCHEMATIC PLAN

CUYAHOGA COUNTY
CUY-90-20.35

PROJECT: I-90 OVER CEI OUTLET
 DATE: 16-SEP-2003 11:55PM
 DRAWN BY: mmh/ajy



PLAN



PROFILE ALONG C OF I-90

PROPOSED WORK
REPLACE DECK

BENCHMARK #1 (TO BE PROVIDED AT PRE-CON)

BENCHMARK #2 (TO BE PROVIDED AT PRE-CON)

TRAFFIC DATA	
CURRENT YEAR ADT (2002)	127,598
DESIGN YEAR ADT (2022)	145,773
DESIGN YEAR ADTT (2022)	9,640

EXISTING STRUCTURE

TYPE: CONTINUOUS STEEL BEAM BRIDGE WITH REINFORCE CONCRETE SUBSTRUCTURE. RIGHT BRIDGE HAS FILLED STEEL GRID DECK AND LEFT BRIDGE HAS REINFORCED CONCRETE DECK

SPANS: 59'-7", 60'-0", 59'-7" C/C BEARINGS

ROADWAY: VARIES F/F OF PARAPET

SKEW: 0°- 00' - 00"

LOADING: HS-20-44 + ALTERNATE

DATE BUILT: 1938, WIDENED IN 1952

SFN: RIGHT IS 1808745, LEFT IS 1808311

APPROACH SLABS: AS-1-67 (15'-0" LONG)

WEARING SURFACE: LEFT IS 1 1/4" LMC, RIGHT IS ASPHALT

ALIGNMENT: TANGENT

PROPOSED STRUCTURE

TYPE: CONTINUOUS STEEL BEAM WITH REINFORCED CONCRETE DECK AND SUBSTRUCTURE

SPANS: 59'-7", 60'-0", 59'-7" C/C BEARINGS

ROADWAY: VARIES F/F OF PARAPET

SKEW: 0°- 00' - 00"

LOADING: LEFT HS20-44 +ALT, RIGHT IS HS25-44 +ALT

SFN: RIGHT IS 1808745, LEFT IS 1808311

APPROACH SLABS: AS-1-67 (15'-0" LONG)

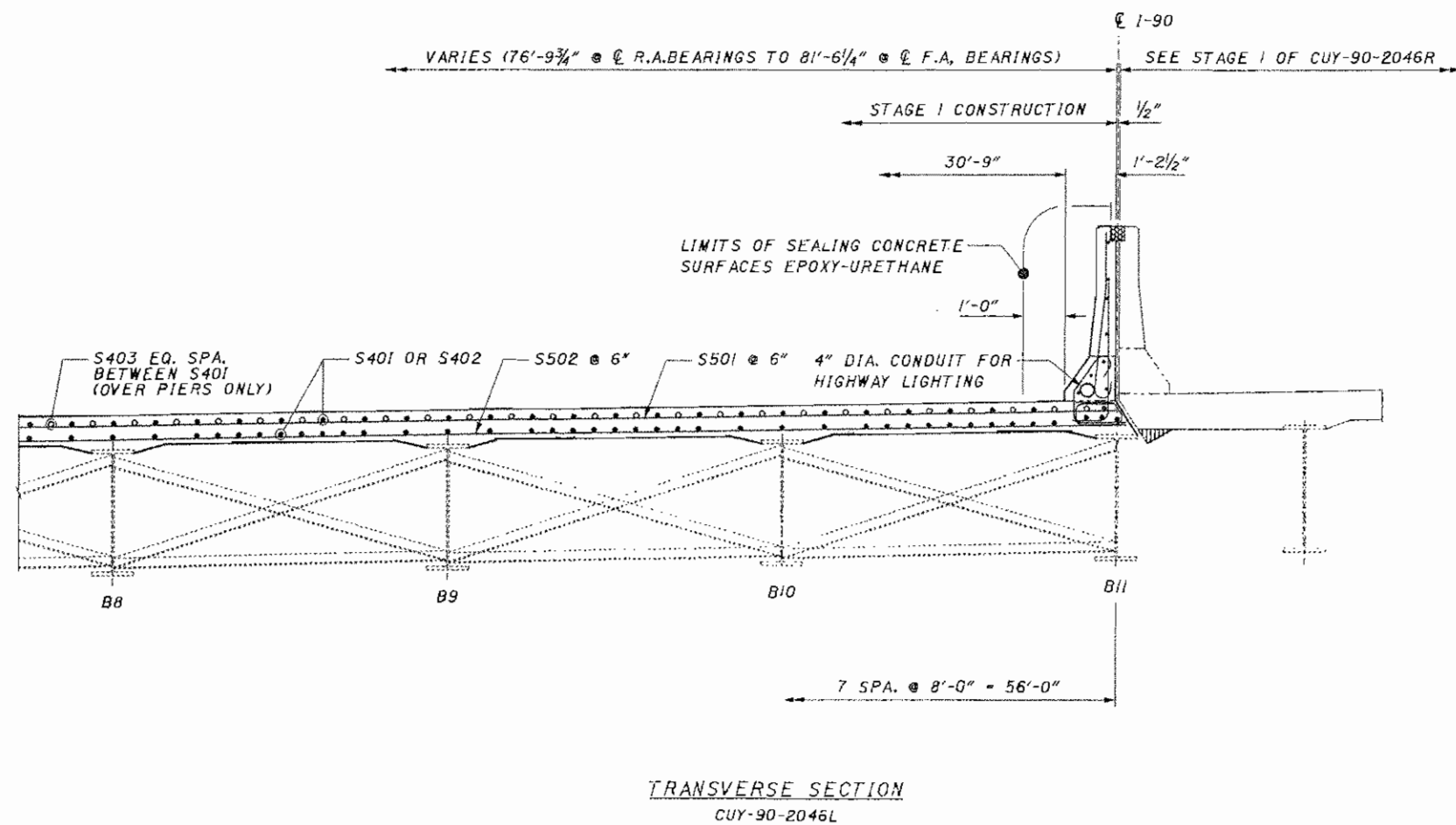
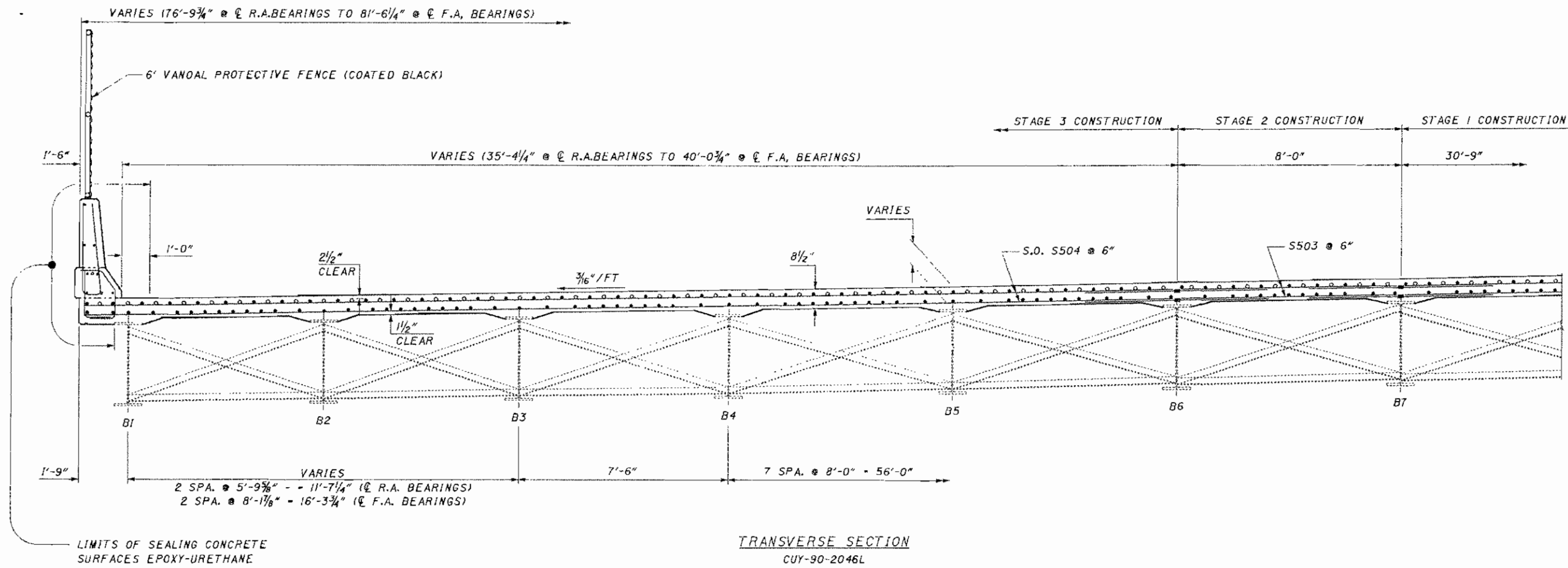
WEARING SURFACE: 1" MONOLITHIC

ALIGNMENT: TANGENT

CROWN: 3/16" PER FOOT

LATITUDE: N41°32'12" LONGITUDE: W81°38'36"

DESIGNED	MMH	CHECKED	
DRAWN	MMH	REVISED	
REVIEWED		STARTING FILE NUMBER	1808745, 1808311
DATE			
DESIGN AGENCY			0807 DISTRICT 12 PRODUCTION
SITE PLAN			
BRIDGE NO. CUY-90-2035 L&R			
I-90 OVER CEI OUTLET			
CUY-90-20.35			
1/12			
21			
103			



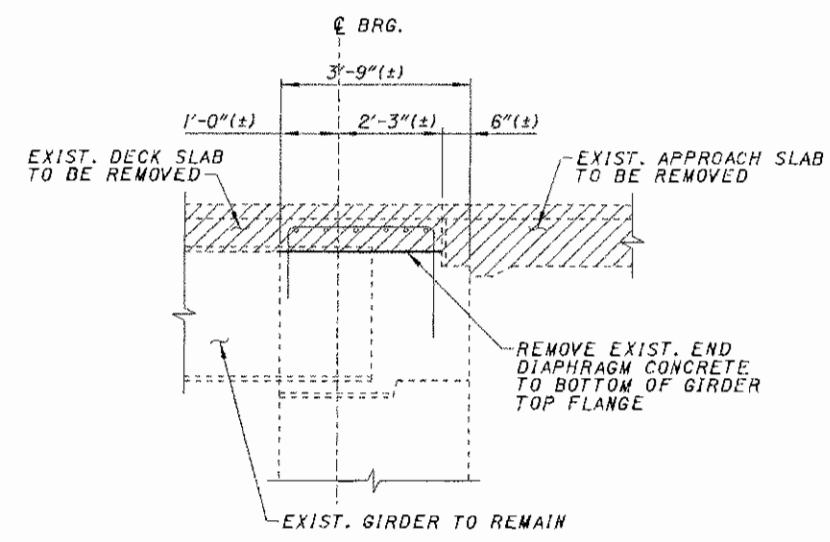
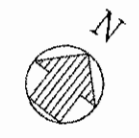
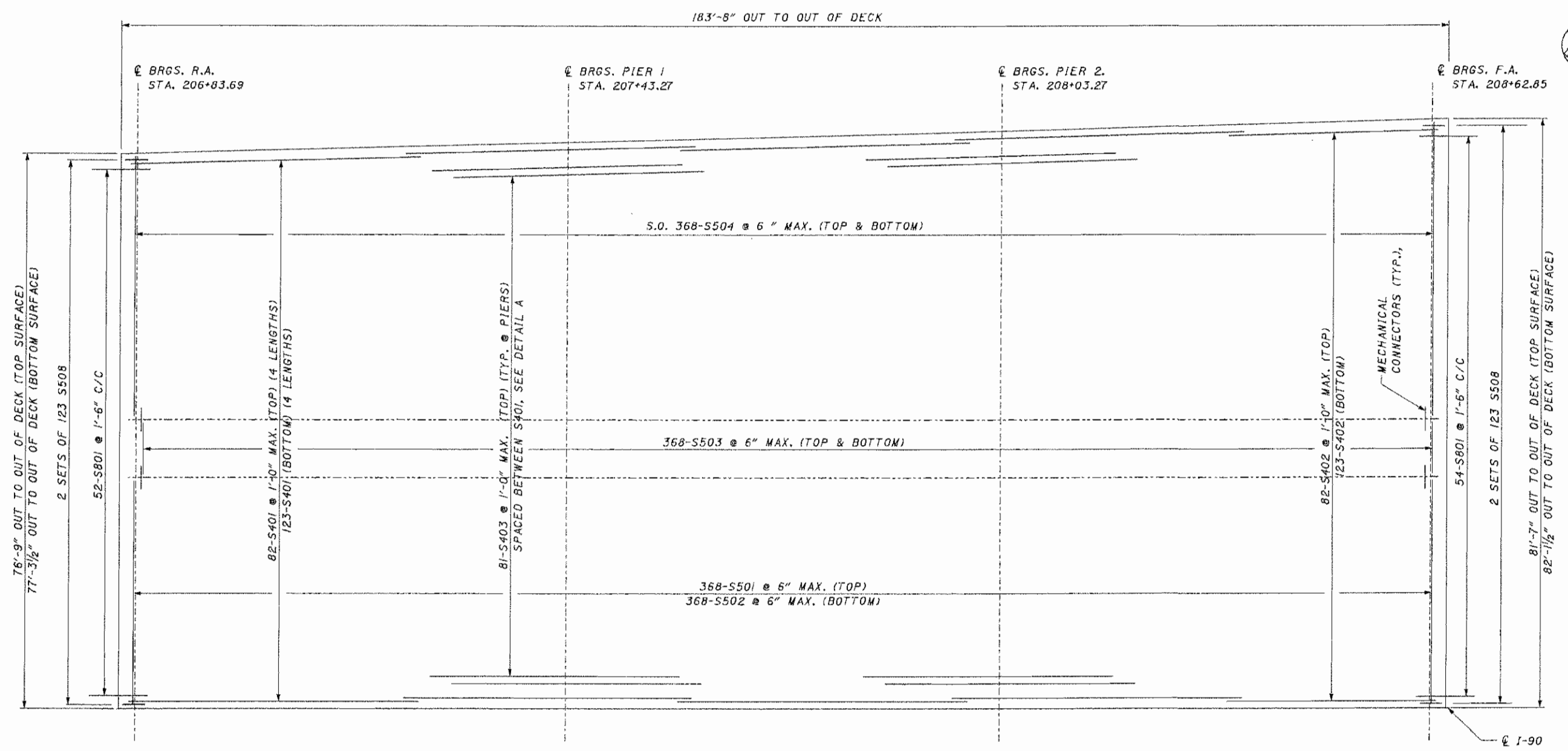
NOTES:

1. DECK SLAB DEPTH FOR CONCRETE QUANTITY: THE DECK THICKNESS, 8 1/2", HAS BEEN USED FOR COMPUTING THE DECK CONCRETE QUANTITIES. CONCRETE REQUIRED TO FILL THE HAUNCHES, INCLUDING ADDITIONAL OR LESS MATERIAL REQUIRED DUE TO HAUNCH CONSTRUCTION TOLERANCES, SHALL BE CONSIDERED AS INCIDENTAL AND WILL NOT BE INCLUDED IN THE QUANTITY CALCULATIONS FOR PAYMENT.
2. THREADED MECHANICAL CONNECTORS SHALL BE RICHMOND SCREW ANCHOR THREADED DOWEL BAR ASSEMBLY, LENTON REBAR SPLICING MECHANISM, OR APPROVED EQUAL. PLACE TRANSVERSE BARS TO LAP MECHANICAL MINIMUM LAP LENGTH FOR #5 BAR MECHANICAL CONNECTORS IS 2'-0".
3. TO FACILITATE THE QUICK COMPLETION OF PHASE TWO CONSTRUCTION, THE CONTRACTOR MAY USE STAY-IN-PLACE DECK FORMS IN THIS BAY. SEE THE GENERAL NOTES FOR ADDITIONAL INFORMATION.
4. A HAUNCH WIDTH OF 9 INCHES SHALL BE USED. HOWEVER, THE HAUNCH WIDTH MAY VARY BETWEEN 6 INCHES AND 12 INCHES.

DESIGNED	JC	CHECKED	M/W
DRAWN	JC	REVISED	
REVISED		DATE	
STRUCTURE FILE NUMBER	1808745 1808311		
DESIGN AGENCY	ODOT DISTRICT 12		
	PRODUCTION		
TRANSVERSE SECTION			
BRIDGE NO CUY-90-2046L			
I-90 OVER CEI OUTLET CHANNEL			
CUY-90-20.35			
4/12			
24			
103			

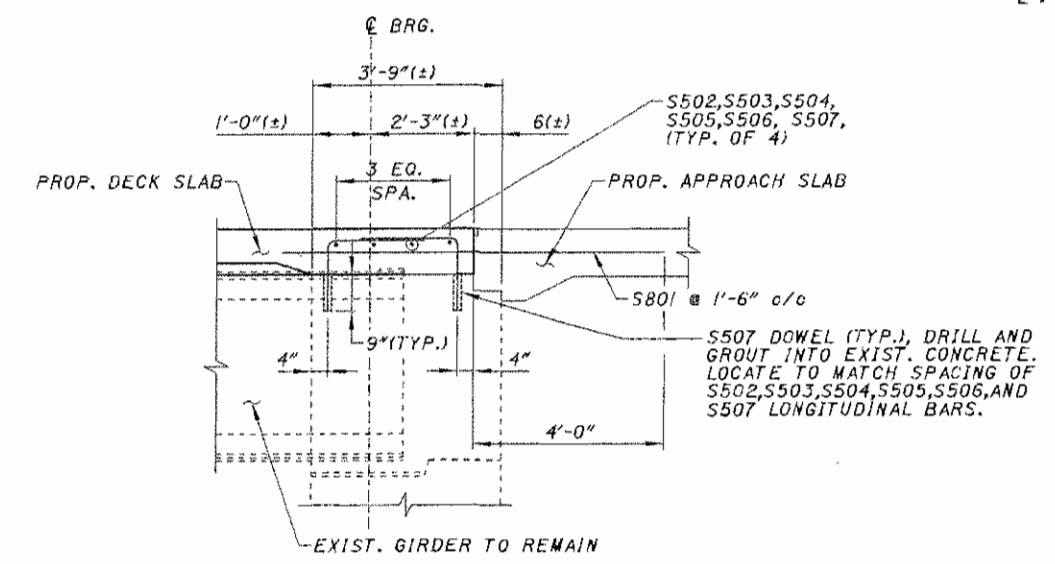
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I:\PROJECTS\PI\19665\2046L\TRANS.dgn 31-JAN-2004 10:52PM rmmallo



SECTION THROUGH END DIAPHRAGM
SHOWING TYPICAL REMOVAL BETWEEN GIRDERS

DECK SLAB PLAN



SECTION THROUGH END DIAPHRAGM
SHOWING TYPICAL RECONSTRUCTION

DESIGN AGENCY
ODOT DISTRICT 12
PRODUCTION

DESIGNED	REVIEWED	DATE
JC	JC	
CHECKED	REVISION	STRUCTURE FILE NUMBER
MJM		1808745 1808311

DECK SLAB PLAN
BRIDGE NO. CUY-90-2046L
1-90 OVER CEI OUTLET CHANNEL

CUY-90-20.35

9/12

29
103