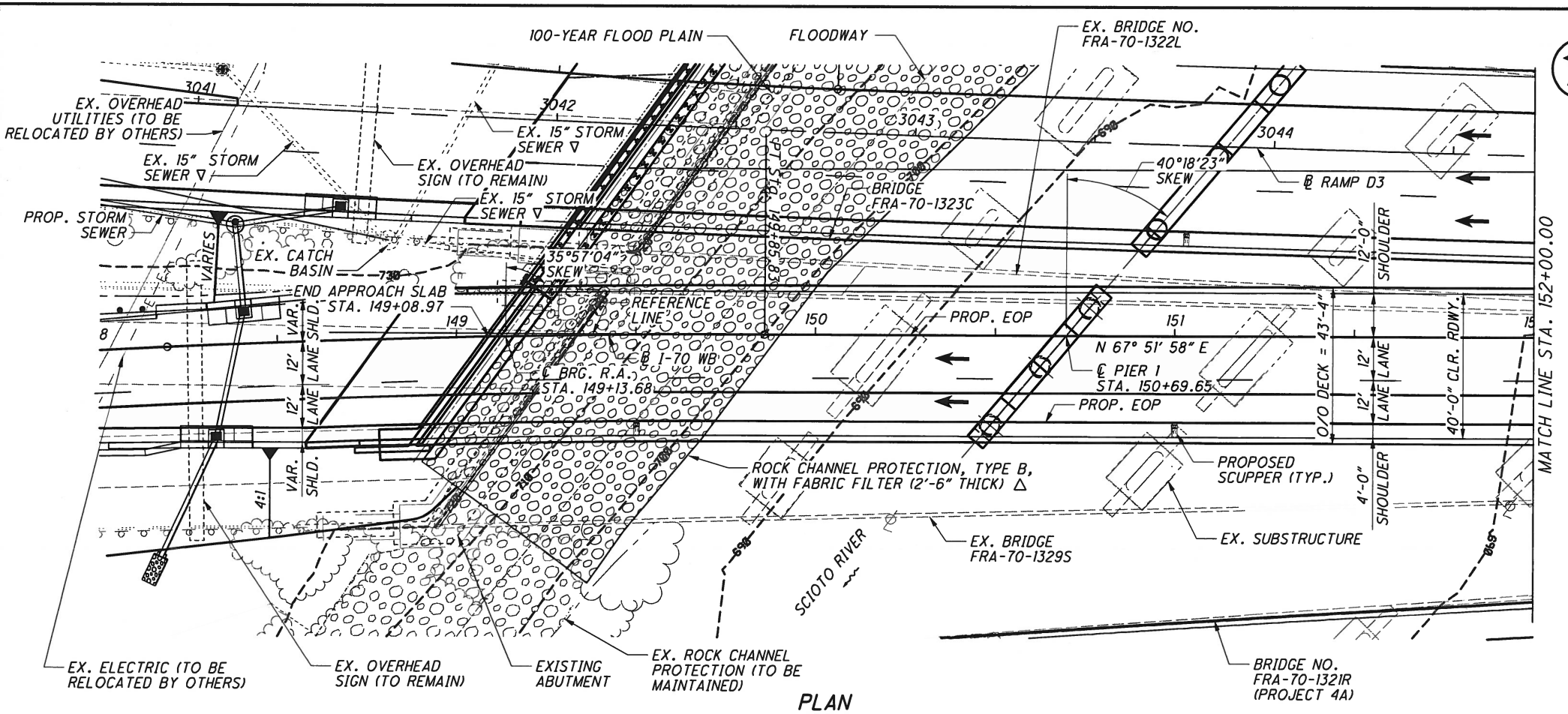


PLOT.CEL
ms consultants, inc.
msconsultants.com
Ohio DOT Workspace
70171 East Interchange 6A
www.msconsultants.com
UCF: oha01vbi
PCF: 60-06634_6A_Columbus
Barchplot Spec: \\0330share\160106634_6A\standards\plotdrv\batchplot.spc
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Model: Sheet
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34" x 22"
View: SHEET
By: cseggola
FRA-70-13.10
PID No. 89464
1/60



PLAN



BENCHMARK DATA

BM #1 STA. 6002+17.25, ELEV. 737.79, OFFSET 42.35' RT., RAMP D6
 BM #2 STA. 332+44.01, ELEV. 719.82, OFFSET 2.30' RT., 315 NB
 BM #3 STA. 6004+80.97, ELEV. 707.50, OFFSET 48.23' RT., RAMP A6

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:
 2015 ADT = 30,890 2015 ADTT = 3,700
 2035 ADT = 31,900 2035 ADTT = 3,800
 DIRECTIONAL DISTRIBUTION = 1.0

- LEGEND**
- ◆ PROJECT BORING LOCATION
 - ▽ TO BE REMOVED
 - ◆ HISTORIC BORING LOCATION
 - △ SEE ROADWAY PLANS FOR QUANTITIES

HORIZONTAL CURVE DATA

I-70 WB - CURVE C18
 P.I. Sta. 148+34.78
 Δ = 5° 17' 26" (RT)
 Dc = 1° 45' 00"
 R = 3,274.04'
 T = 151.27'
 L = 302.32'
 E = 3.49'
 PC Sta. 146+83.51
 PT Sta. 149+85.83
 V (des) = 60 MPH
 e (max) = 0.041
 WIDENING = N/A

I-70 WB - TANGENT T12
 STA. = 149+85.83
 STA. = 158+37.85
 L = 852.02'
 BRG. = N 67° 51' 58" E

HYDRAULIC DATA

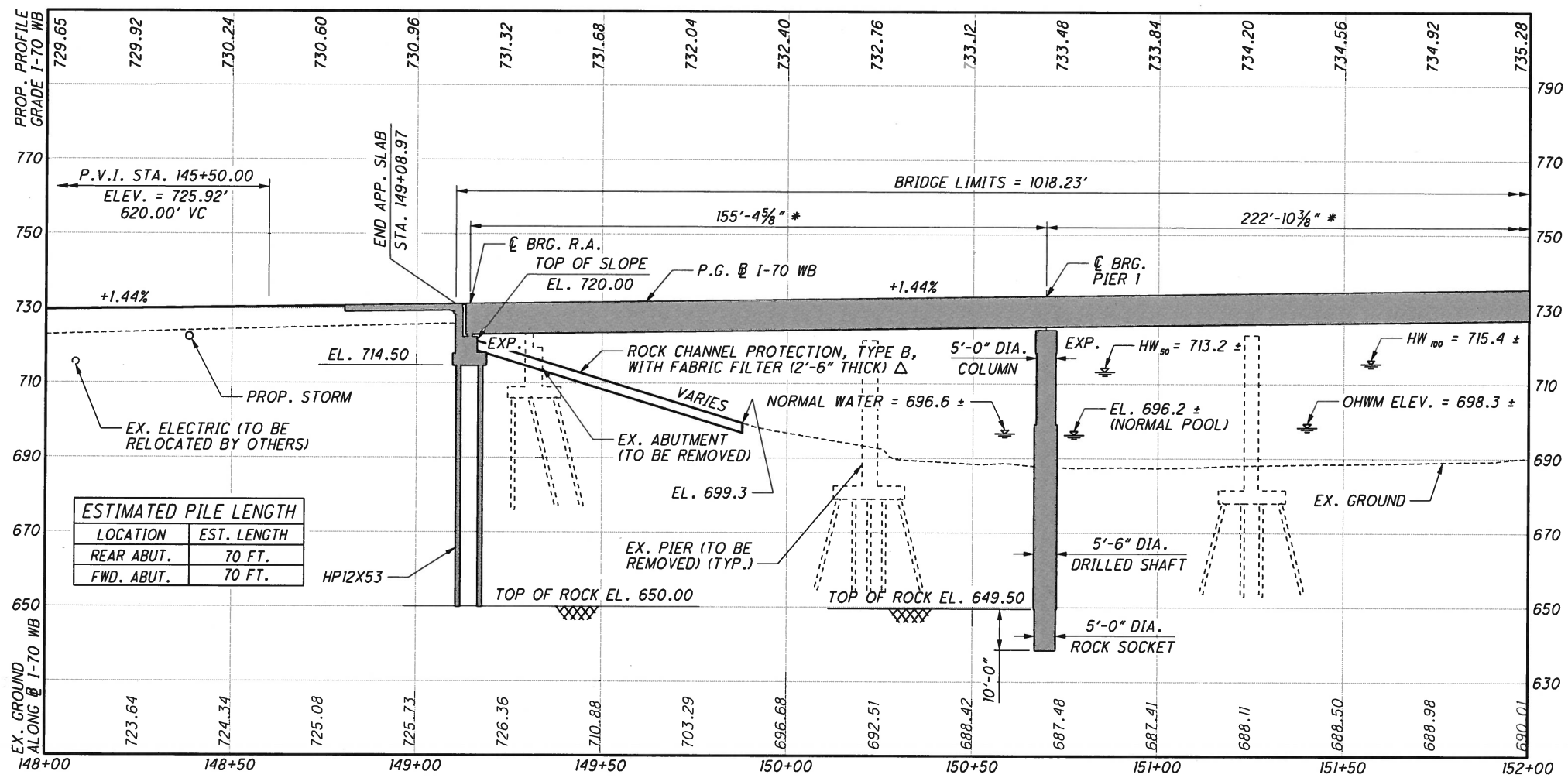
DRAINAGE AREA = 1,629 SQ. MILES
 Q (100) = 75,000 CFS V (100) = 5.2 FT/S
 Q (50) = 62,100 CFS V (50) = 4.6 FT/S
 STRUCTURE CLEARS THE 50 YEAR DESIGN HW BY 8.5 FEET.

EXISTING STRUCTURE

TYPE: NINE SPAN CONTINUOUS STEEL GIRDER WITH REINFORCED CONCRETE DECK AND SUPERSTRUCTURE
 SPANS: 88.96', 101.67', 108.56', 105.38', 113.35', 105.38', 98.30', 90.32', 79.70'
 ROADWAY: VARIES, SLAB WIDTH 111'-9" ± TO 74'-6" ±
 LOADING: HS20-44 & INTERSTATE ALTERNATE
 WEARING SURFACE: 5" ASPHALT OVERLAY
 SKEW: VARIES
 APPROACH SLABS: 25'-0" LONG
 ALIGNMENT: TANGENT, VARIES
 CROWN: 3/16" / FT
 STRUCTURAL FILE NUMBER: 2504413
 DATE BUILT: 1975
 DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

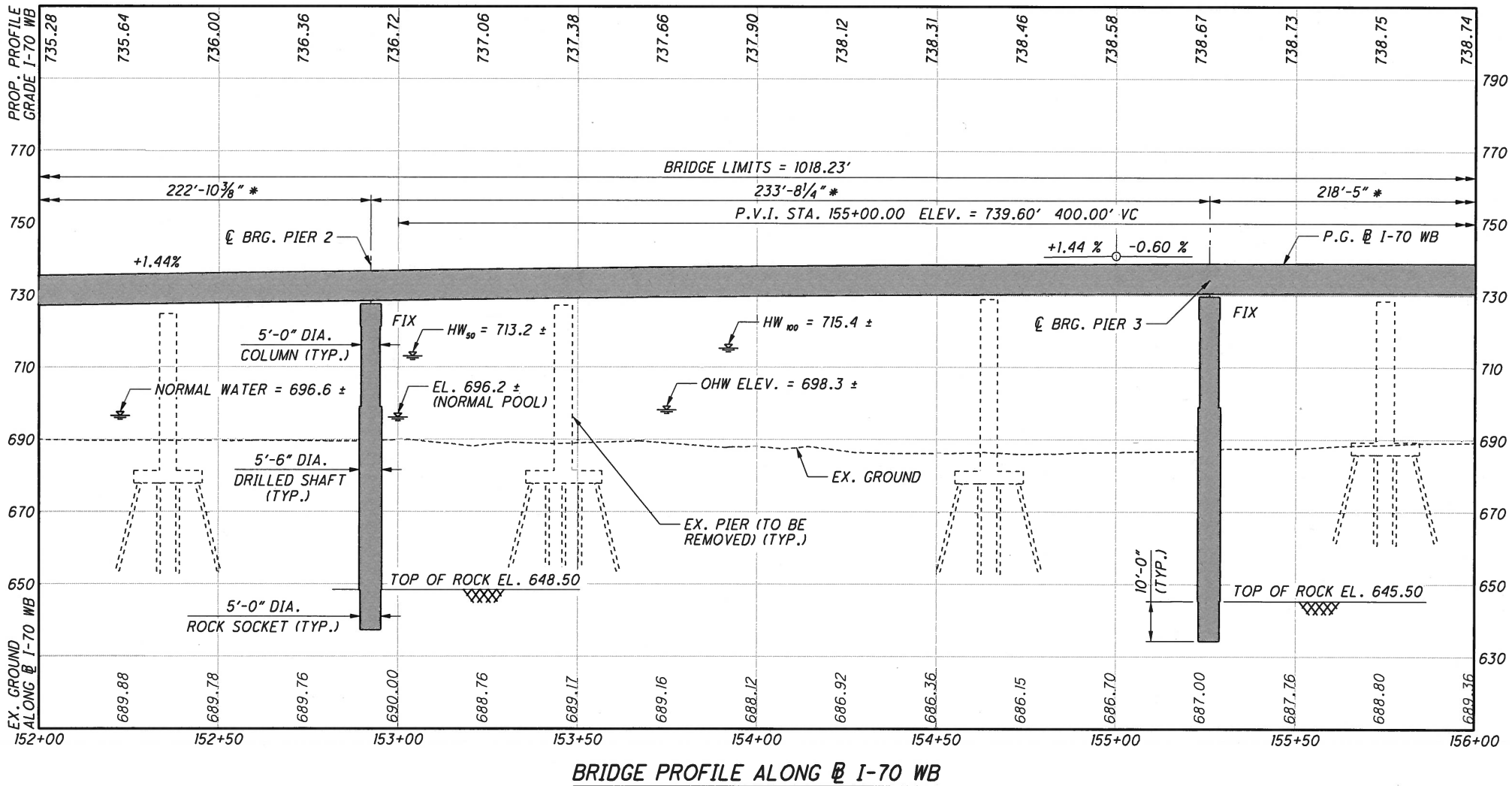
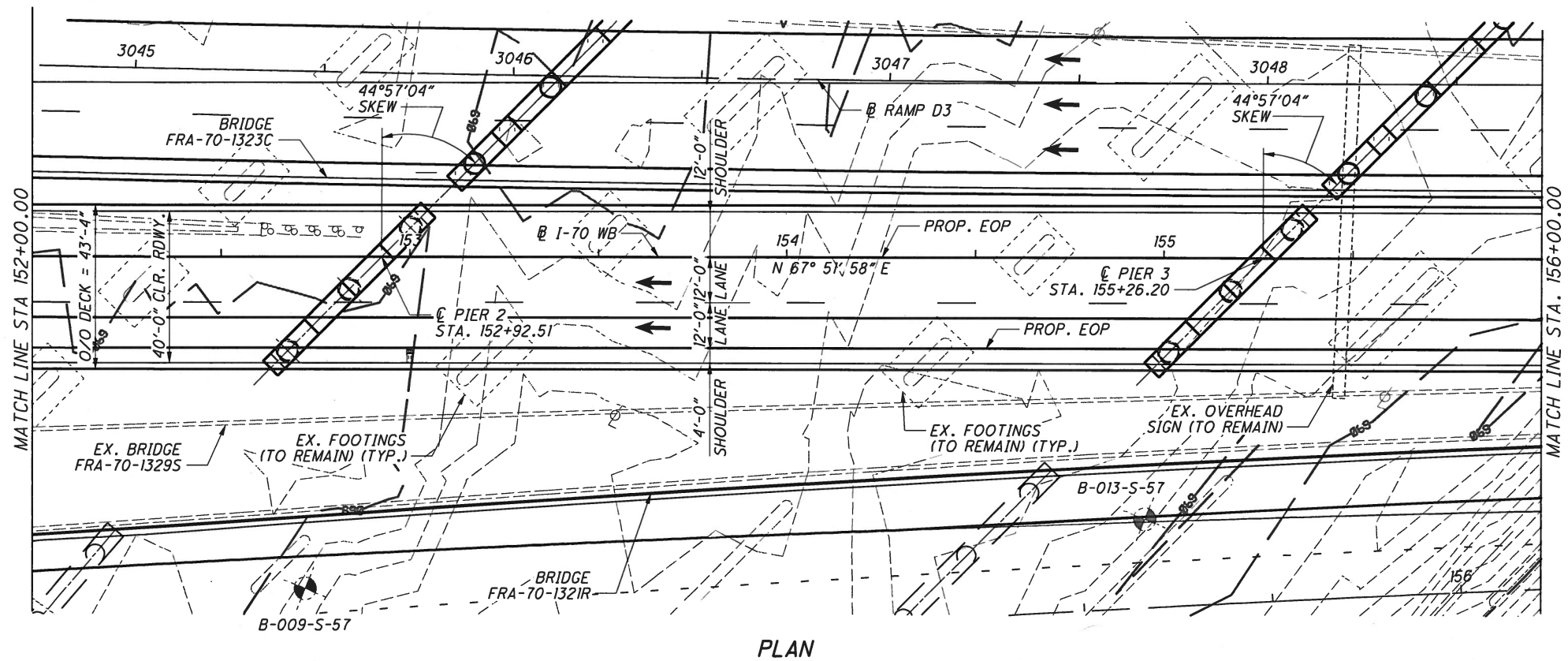
TYPE: FIVE SPAN CONTINUOUS COMPOSITE STEEL GIRDERS (ASTM A709, GRADE 50W/HPSTOW) WITH COMPOSITE REINFORCED CONCRETE DECK ON CAPPED PILE ABUTMENTS AND MULTI-COLUMN PIERS.
 SPANS: 155.39', 222.86', 233.69', 218.42', 178.36' MEASURED ALONG REFERENCE LINE
 ROADWAY: 40'-0" TOE/TOE PARAPET
 LOADING: HL-93 AND FUTURE WEARING SURFACE 0.06 KSF
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 SKEW: VARIES
 APPROACH SLABS: 30'-0" LONG (AS-I-15)
 ALIGNMENT: TANGENT, VARIES
 SUPERELEVATION: VARIES, MAX. = 0.038
 COORDINATES: LATITUDE 39° 57' 08"
 LONGITUDE 83° 00' 44"



BRIDGE PROFILE ALONG I-70 WB * DISTANCE MEASURED ALONG REFERENCE LINE (EXTENDED TANGENT)

ESTIMATED PILE LENGTH	
LOCATION	EST. LENGTH
REAR ABUT.	70 FT.
FWD. ABUT.	70 FT.

ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229
DESIGN AGENCY
DATE 2/9/2015
REVIEWED
DRAWN KRM
CHECKED WER
DESIGNED LAW
FRANKLIN COUNTY
STA. 149+08.97
STA. 159+27.20
SITE PLAN (1 OF 3)
BRIDGE NO. FRA-70-1322L
I-70 WB OVER THE SCIOTO RIVER
FRA-70-13.10
PID No. 89464
1/60



LEGEND

PROJECT BORING LOCATION

* DISTANCE MEASURED ALONG REFERENCE LINE

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0.5'
0'

UCF: ohoiv8i
PCF: 60-06634-6A.Columbus

Batchplot Spec: \\0330share\160\06634-6A\standards\plotdrv\batchplot.spc
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Plot Driver: S:\svid\plotting\ustin\VB8\PDF.plt

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By: asengupta
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PLOT.CEL



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mconsultants.com

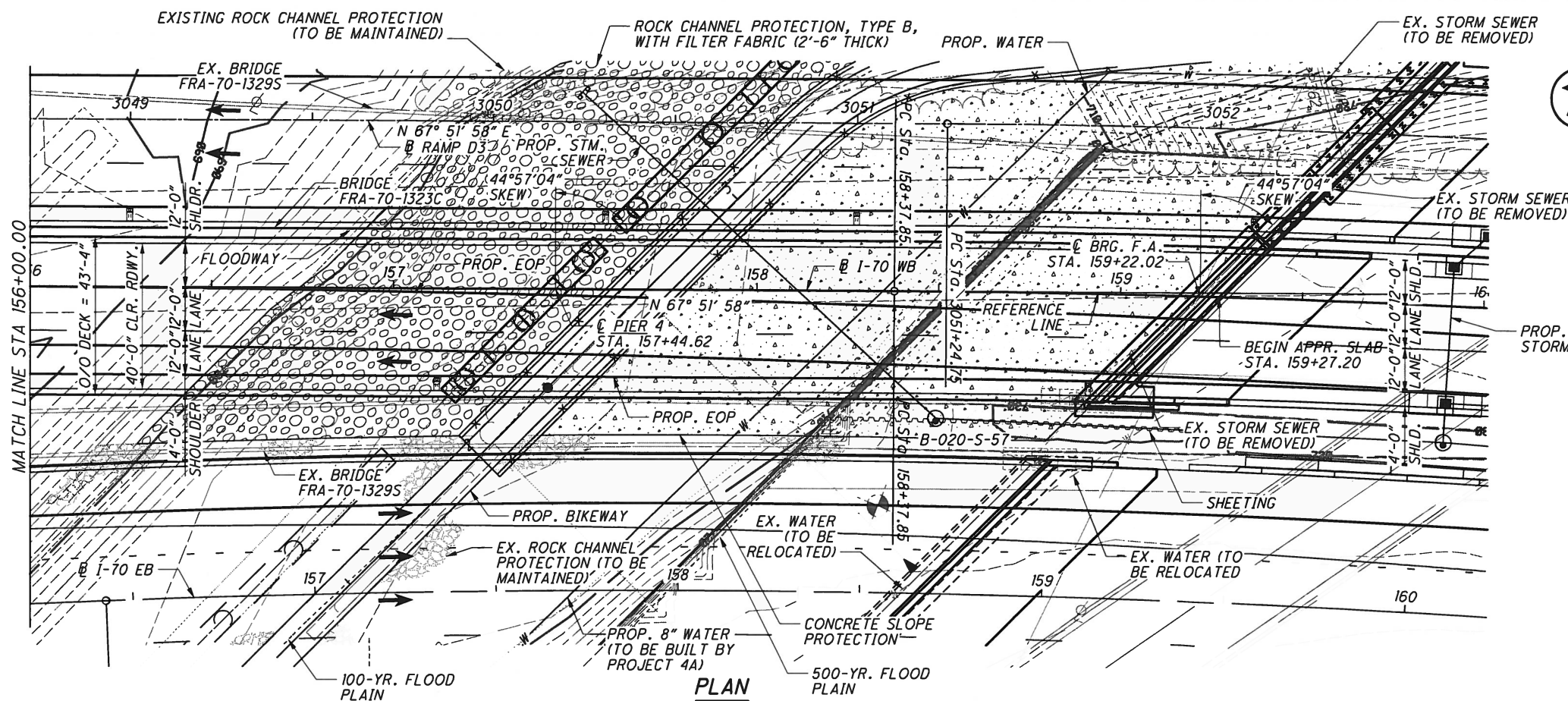
Ohio DOT WorkSpace
70171 East Interchange 6A
www.mconsultants.com

UCF: ohio08i
PCF: 60-06634_6A_Columbus

Batchplot Spec: \\0330share\60106634_6A\standards\plot\batchplot.spc
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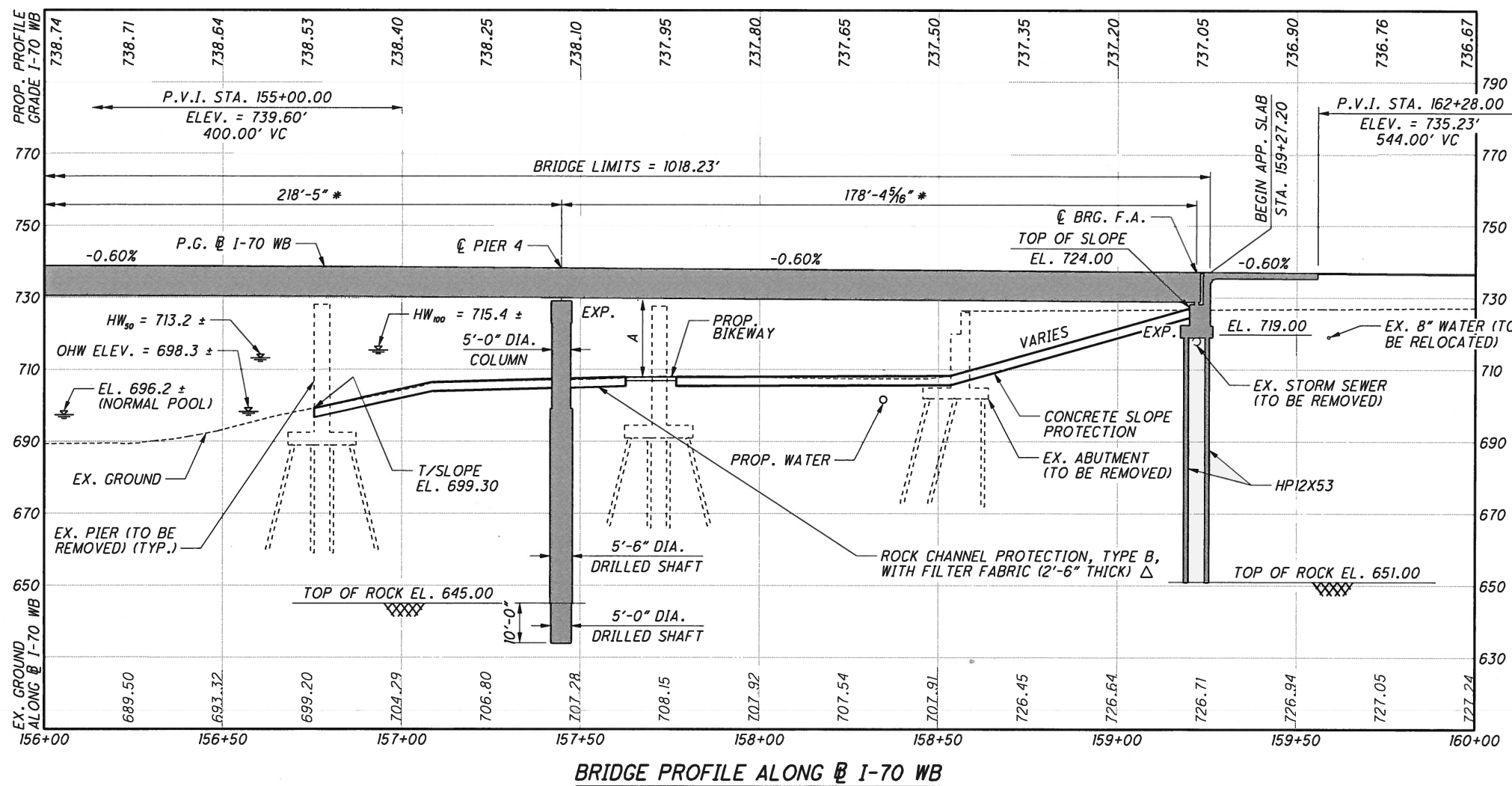
HORIZONTAL CURVE DATA

I-70 WB - CURVE C19
P.I. Sta. 167+89.88
 $\Delta = 29^\circ 03' 49''$ (RT)
 $D_c = 1^\circ 33' 36''$
 $R = 3,672.81'$
 $T = 952.03'$
 $L = 1,863.05'$
 $E = 121.38'$
PC Sta. 158+37.85
PT Sta. 177+00.90
 V (des) = 60 MPH
 e (max) = 0.038
WIDENING = N/A

● 10'-0" REQUIRED MINIMUM VERTICAL CLEARANCE
22'-7 $\frac{7}{8}$ " ACTUAL MINIMUM VERTICAL CLEARANCE

LEGEND

- ⊕ PROJECT BORING LOCATION
- * DISTANCE MEASURED ALONG REFERENCE LINE
- △ SEE ROADWAY PLANS FOR QUANTITIES



BRIDGE PROFILE ALONG I-70 WB

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229



DESIGNED
LAW
CHECKED
WER

DATE
2/9/2015

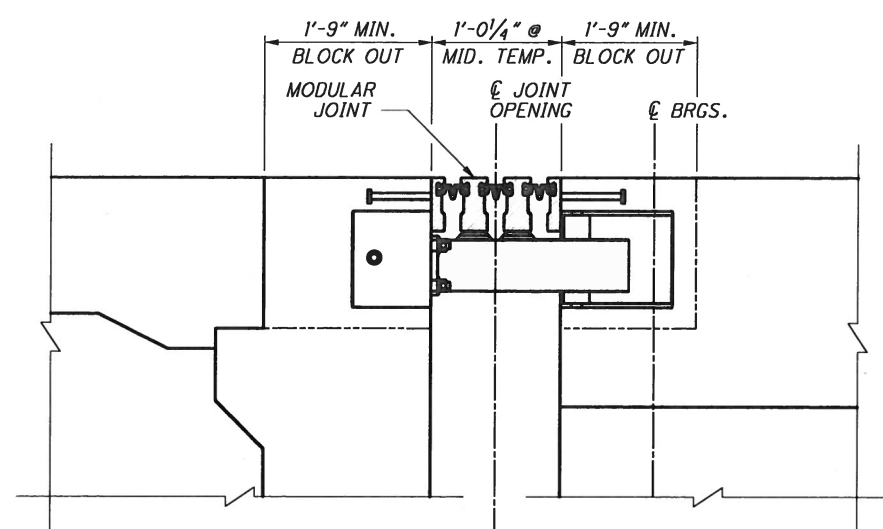
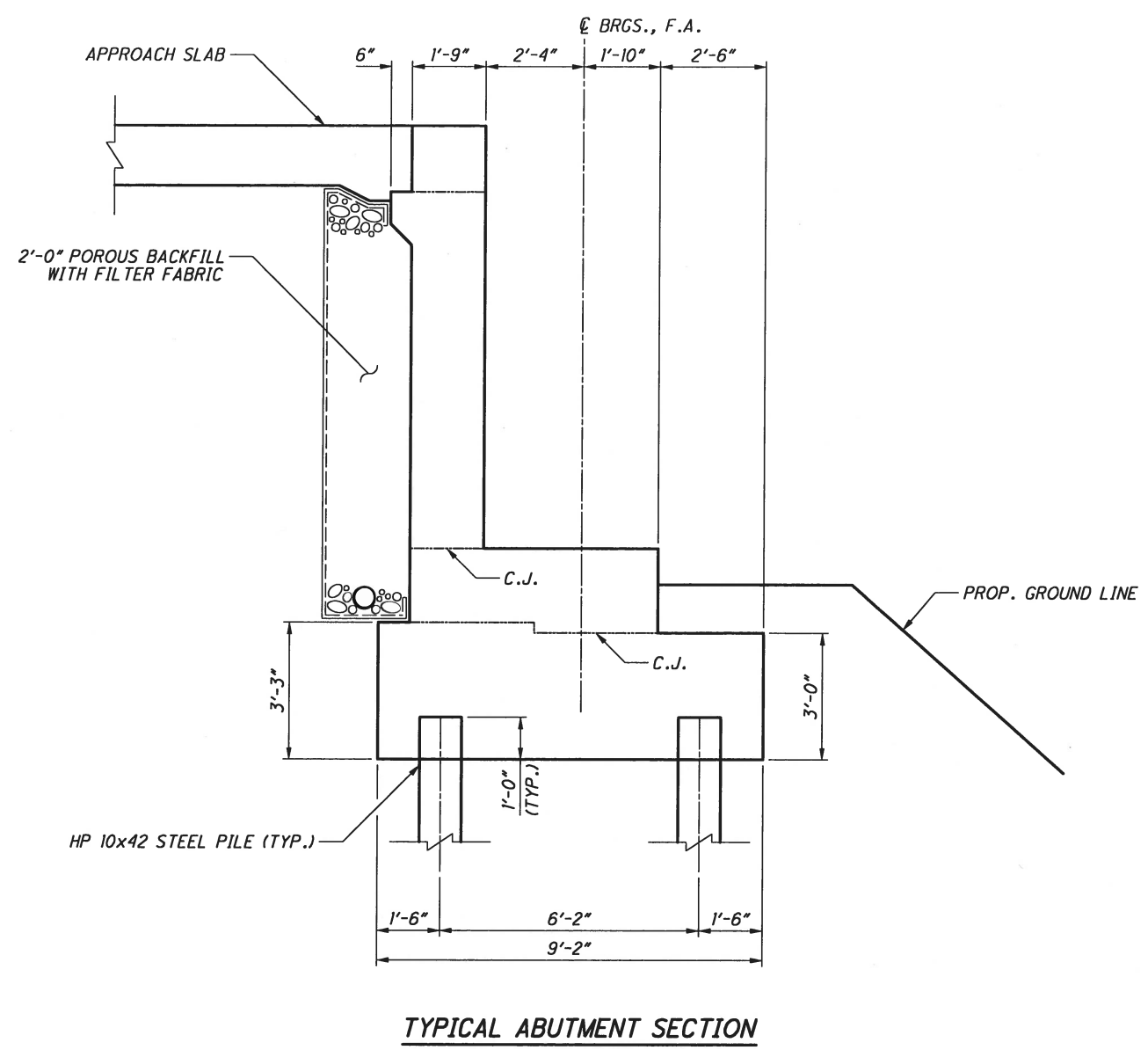
FRANKLIN COUNTY
STA. 149+08.97
STA. 159+27.20

SITE PLAN (3 OF 3)
BRIDGE NO. FRA-70-1322L
I-70 WB OVER THE SCIOTO RIVER

FRA-70-13.10
PID No. 89464

3/60





MODULAR EXPANSION JOINT DETAILS	
ABUTMENT	
R.A.	3 CELLS
F.A.	3 CELLS

Ohio DOT Workspace
FRA-70-13.10

UCF: ohdot\B
PCF: 60-06634_6A_Columbus

Batchplot Spec: \\0330share\160\06634_6A\standards\plot\batchplotl.apc
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3/4" x 22"

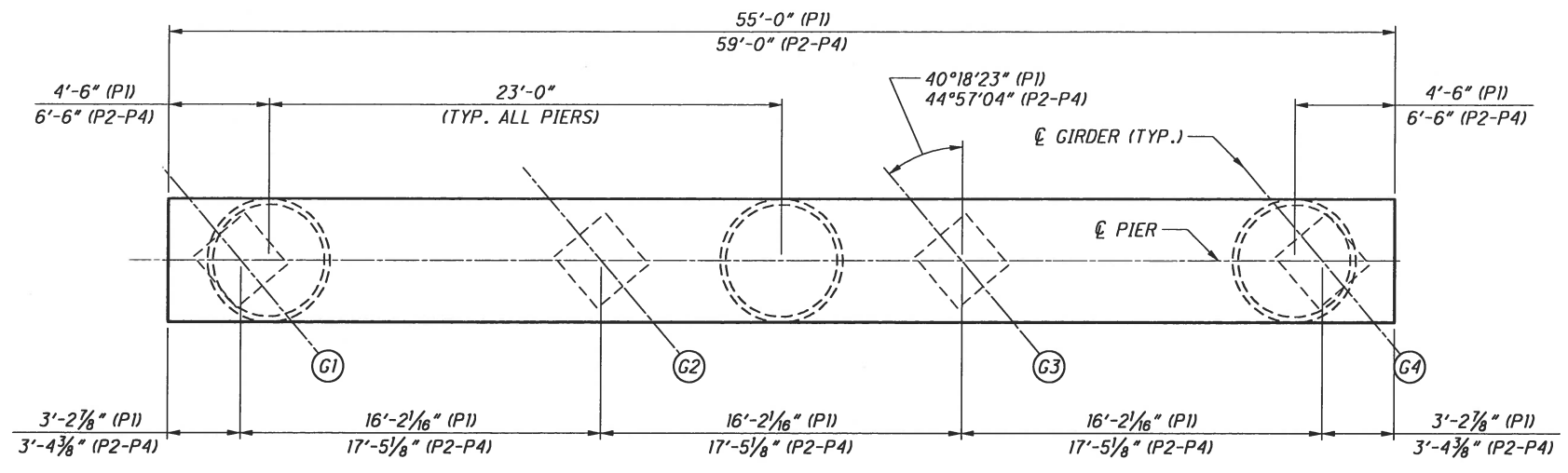
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ABUTMENT AND EXPANSION JOINT DETAILS
BRIDGE NO. FRA-70-1322L
1-70 WB OVER THE SCIOTO RIVER

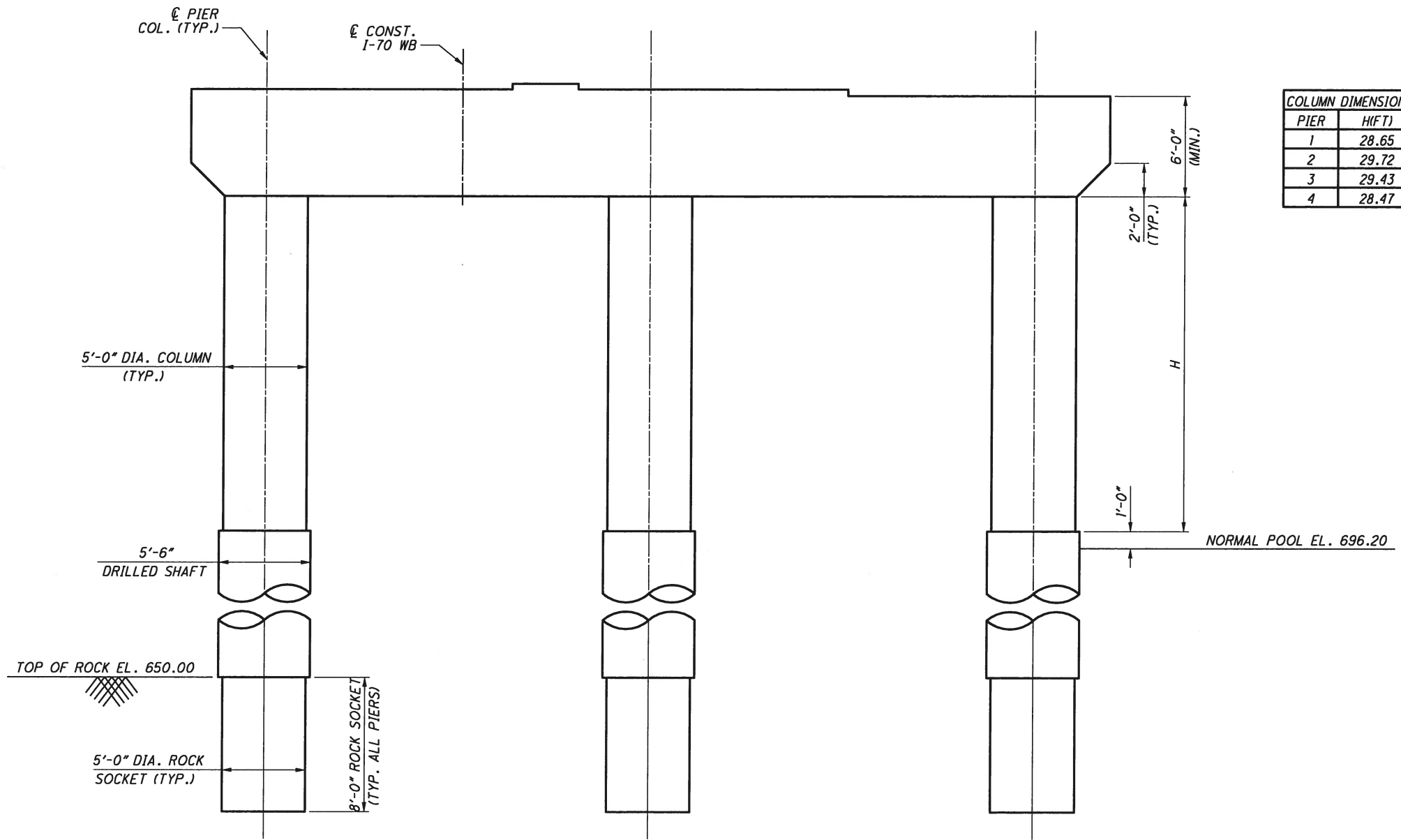
FRA-70-13.10
PID No. 89464

5/9





TYPICAL PIER PLAN



TYPICAL PIER ELEVATION
(PIER 1 SHOWN)
(LOOKING UPSTATION)

Batchplot Spec: \\0330share\160\06634_6A\standards\plotdrv\batchplot.spc
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Ohio DOT Workspace
FRA-70-13.10
www.msconsultants.com

UCF: okhdi\Bj
PCF: 60-06634_6A_Columbus

3/4" x 22"



DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED
ELS
TGH

CHECKED
TGH

DRAWN
ABD

REVIEWED
GLG

DATE
May-14

STRUCTURE FILE NUMBER

PIER PLAN AND ELEVATION
BRIDGE NO. FRA-70-1322L
1-70 WB OVER THE SCIOTO RIVER

FRA-70-13.10
PID No. 89464

6 / 9



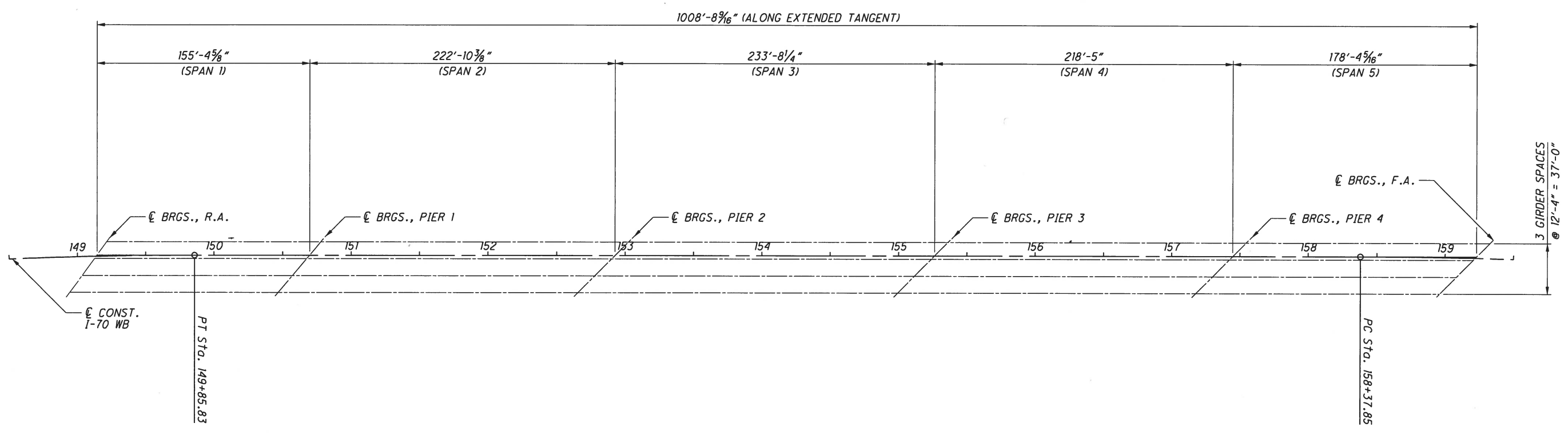
Ohio DOT Workspace
FRA-70-13.10
www.msconsultants.com

UCF: oideaV8;
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Plot Driver: S:\etc\plotting\usr\m\PDF.plt

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View: SHEET
By: wruggles

3/4" x 22"



FRAMING PLAN

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE
MOY-14
REVIEWED
GLG
STRUCTURE FILE NUMBER

DRAWN
PEG
REVIS
CHECKED
TGH

DESIGNED
PEG
CHECKED
TGH

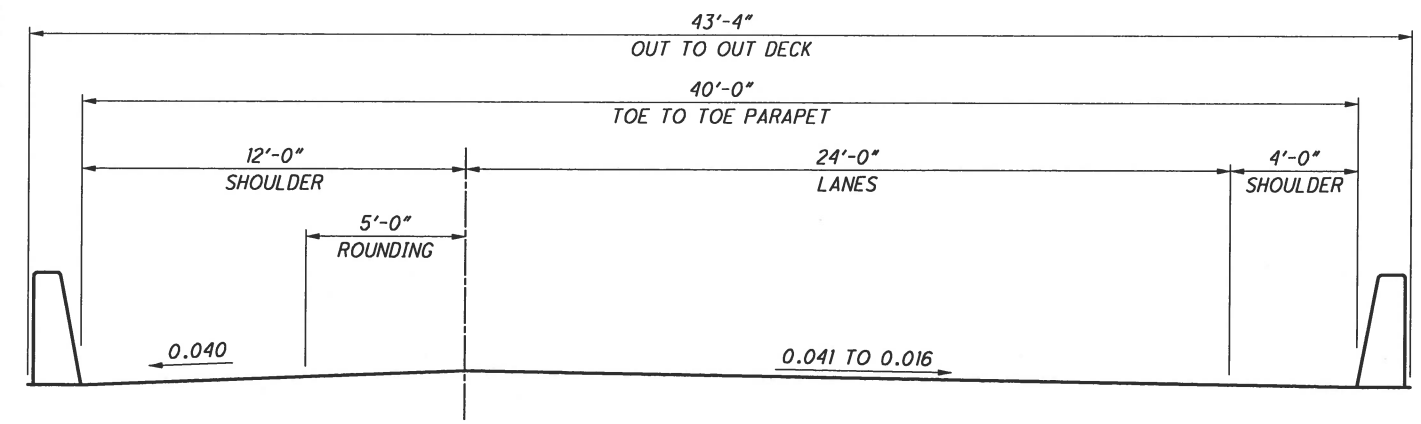
FRAMING PLAN
BRIDGE NO. FRA-70-1322L
I-70 WB OVER THE SCIOTO RIVER

FRA-70-13.10
PID No. 89464

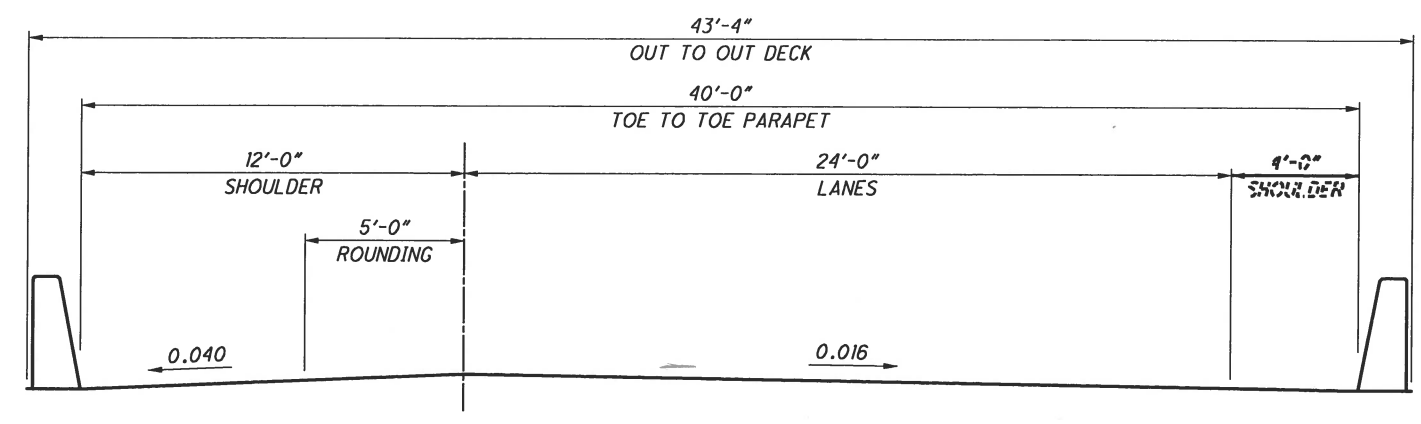
7 / 9



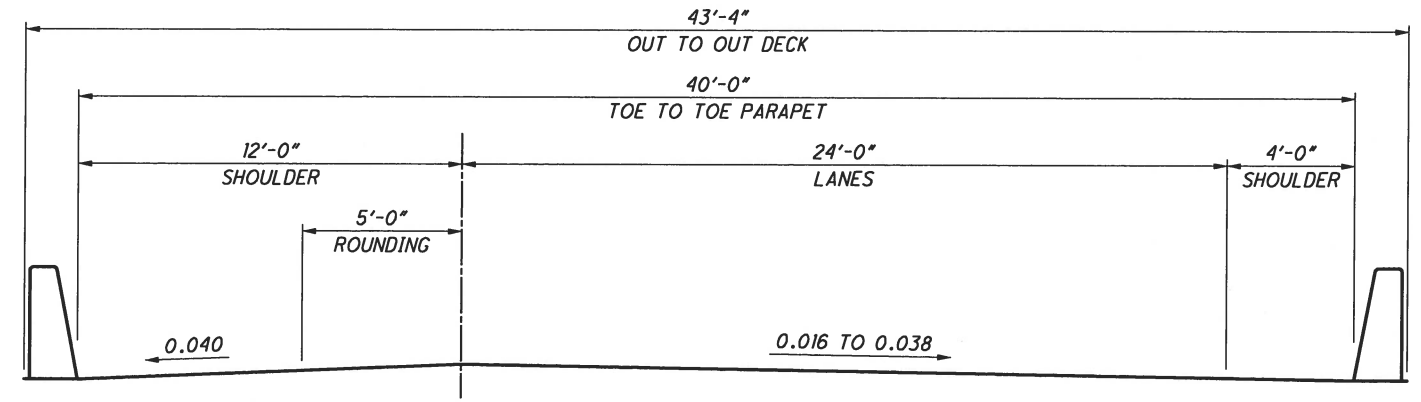
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By: wriggles
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UCL: ohio\VB
PCF: 60-06634_6A.Columbus
Ohio DOT Workspace
FRA-70-13.10
www.msconsultants.com



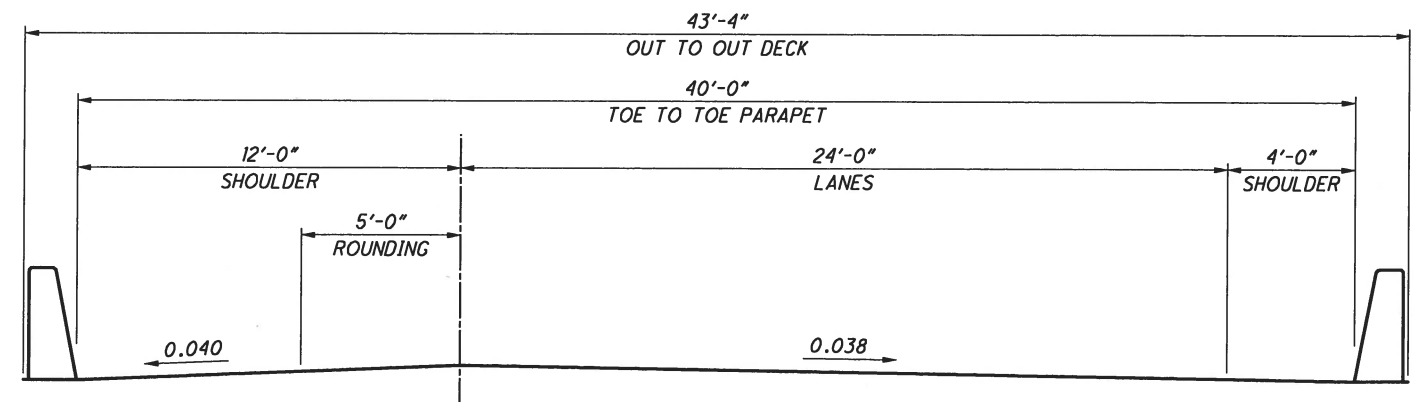
BEGINNING OF APPROACH SLAB TO STA 150+12.56



STA 150+12.56 TO STA 157+88.25



STA 157+88.25 TO STA 159+05.58



STA 159+05.58 TO END OF APPROACH SLAB

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	PEG	CHECKED	TGH
DRAWN	PEG	REVISED	---
REVIEWED	GLG	STRUCTURE FILE NUMBER	---
DATE	MoY-14	---	---

PAVEMENT TRANSITION DETAILS
BRIDGE NO. FRA-70-1322L
I-70 WB OVER THE SCIOTO RIVER

FRA-70-13.10
PID No. 89464

8 / 9

PLOT CEL



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msconsultants.com

Ohio DOT Workspace
FRA-70-13.10



0.5'

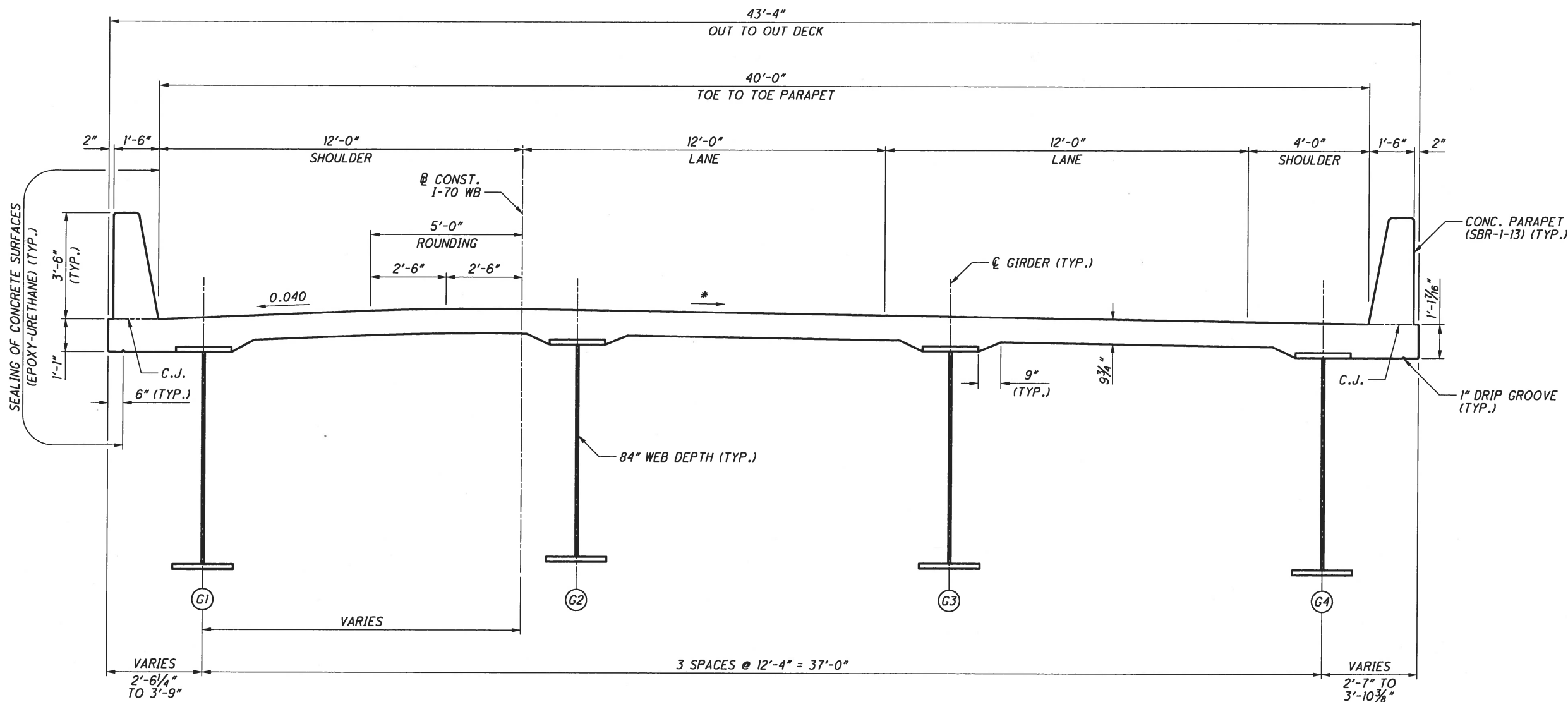
UCF: oho/vbi
PCF: 60-06634_6A_Columbus

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Plot Driver: S:\std\plotting\ustin\VB\PDF\plcfrg

3.4" x 22"

View: SHEET
By: KmcDonald

Model: Sheet
Printed: 10/10/2014 11:47:06 AM
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TRANSVERSE SECTION

LEGEND

* CROSS SLOPE VARIES, SEE SUPERELEVATION TRANSITION DIAGRAM FOR DETAILS

DESIGNED PEG CHECKED TGH		DRAWN PEG REVISED ---		REVIEWED CLG STRUCTURE FILE NUMBER ---	DATE May-14 ---	DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229
TRANSVERSE SECTION						
BRIDGE NO. FRA-70-1322L						
1-70 WB OVER THE SCIOTO RIVER						
FRA-70-13.10						
PID No. 89464						
9 / 9						

BENCHMARK DATA

BM #1 STA. 6002+17.25 , ELEV. 737.79 , OFFSET 42.35 RT, RAMP D6
 BM #2 STA. 332+44.01 , ELEV. 719.82 , OFFSET 2.30 RT , 315 NB
 BM #3 STA. 6004+80.97 , ELEV. 707.50 , OFFSET 48.23 RT, RAMP A6

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS.

DESIGN TRAFFIC:

2015 ADT = 10,470 2015 ADTT = 840
 2035 ADT = 17,300 2035 ADTT = 1,400
 DIRECTIONAL DISTRIBUTION = 1.0

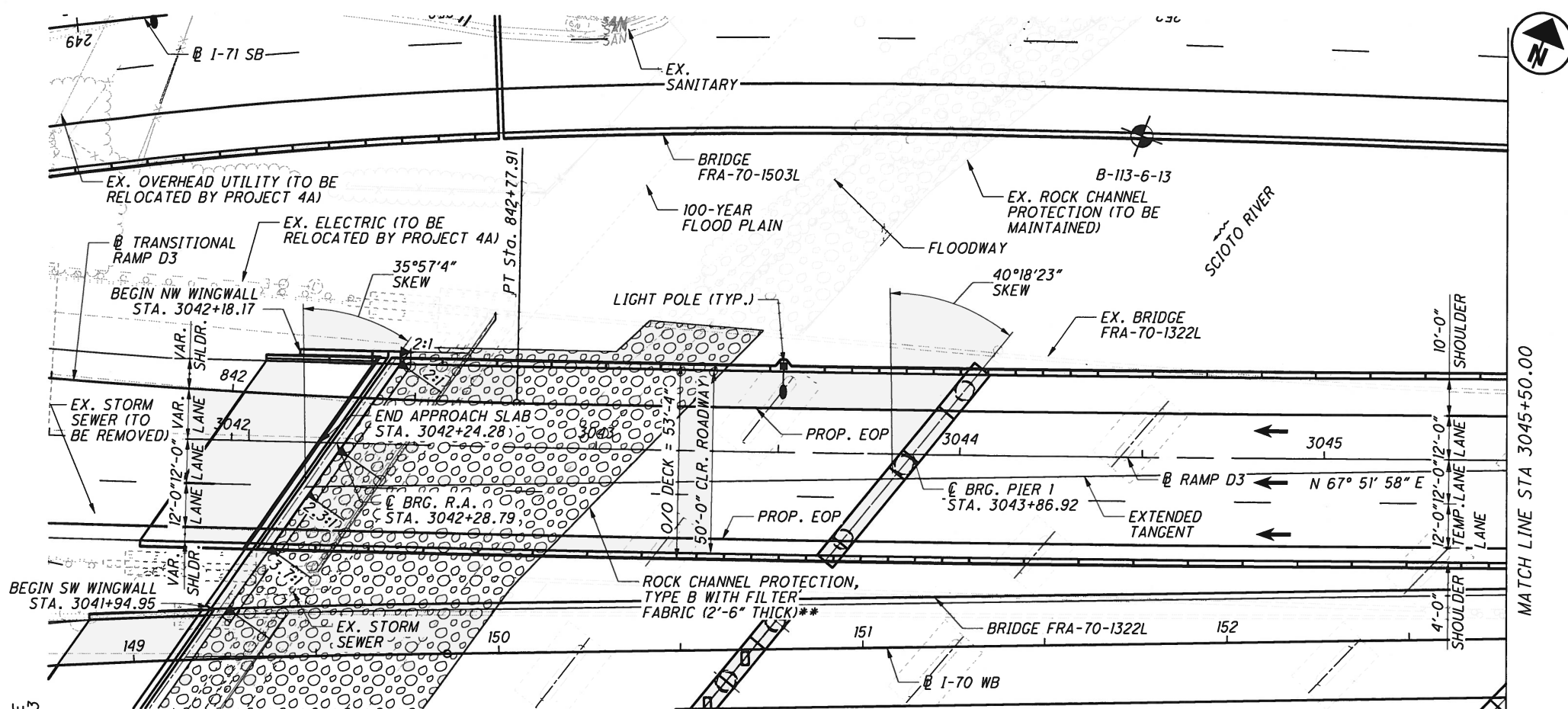
HORIZONTAL CURVE DATA

RAMP D3 - CURVE 22
 P.I. STA. = 3043+09.31 L = 1,089.22'
 $\Delta = 3^{\circ} 48' 44''$ (LT) E = 9.06'
 $D_c = 0^{\circ} 21' 00''$ $e_{max} = NC$
 $R = 16,370.22'$ v = 60 MPH
 $T = 544.81'$ C = 1,089.02'
 C.B. = N 69° 46' 20" E

HYDRAULIC DATA

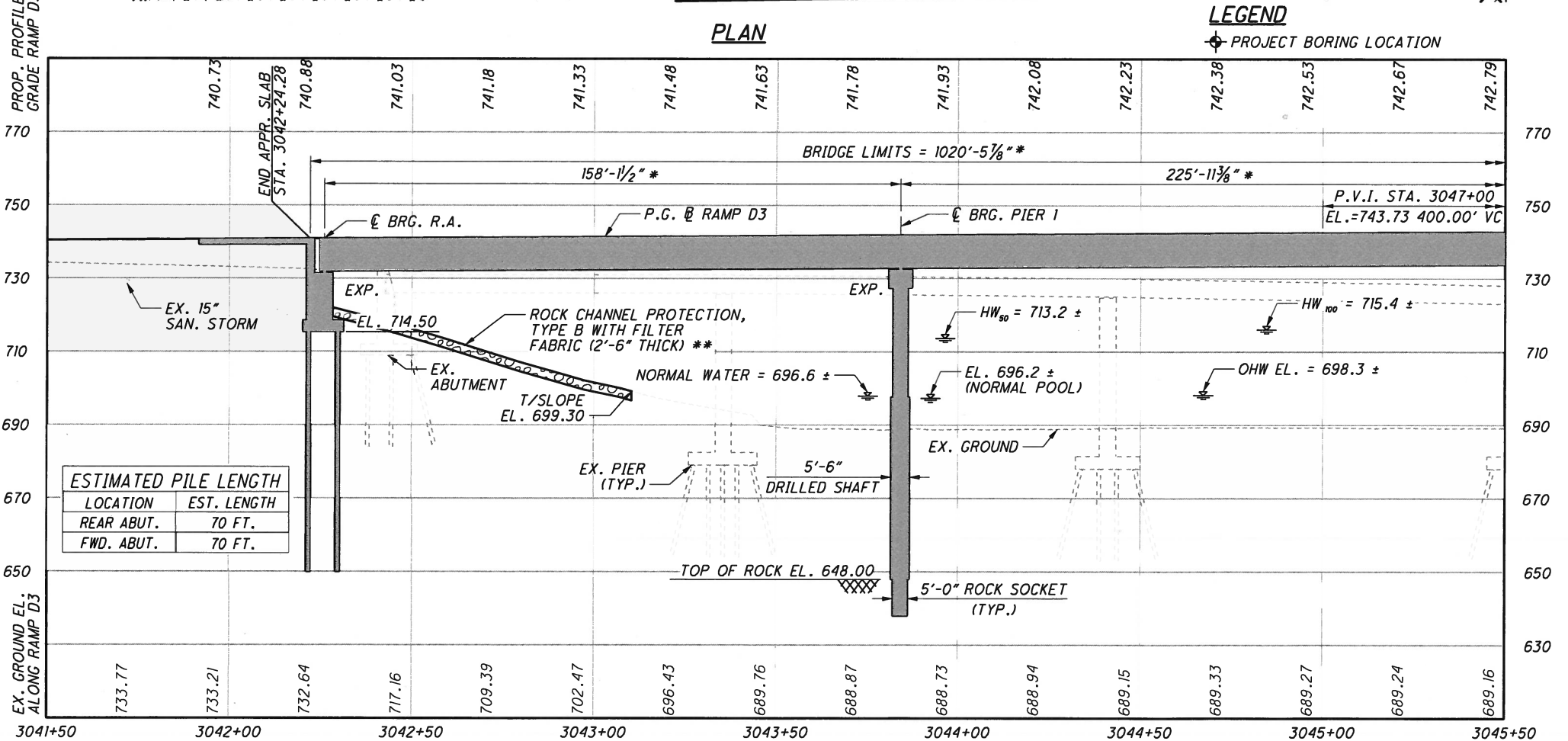
DRAINAGE AREA = 1,629 SQ. MILES
 $Q(100) = 75,000$ CFS $V(100) = 5.1$ FT/S
 $Q(50) = 62,100$ CFS $V(50) = 4.8$ FT/S
 STRUCTURE CLEARS THE 50 YEAR DESIGN HW BY 19 FEET

PLOT.CEL
 ms consultants, inc.
 Ohio DOT Workspace
 7071 East Interchange 6A
 Columbus
 UCF: ohio106
 POF: 60-06634-6A_Columbus
 Batchplot Spec: \\03330share\60\06634_6A\standards\plotdrv\plotdrv.dwg
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 View: SHEET
 Pinned: 2/9/2015 2:53:35 PM By: pscchrist
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PLAN **LEGEND**

PROJECT BORING LOCATION



ESTIMATED PILE LENGTH	
LOCATION	EST. LENGTH
REAR ABUT.	70 FT.
FWD. ABUT.	70 FT.

BRIDGE PROFILE ALONG RAMP D3

* DISTANCE MEASURED ALONG RAMP D3
 ** ROCK CHANNEL PROTECTION, TYPE B WITH FILER FABRIC PAID FOR UNDER ROADWAY ITEM 601.

EXISTING STRUCTURE

TYPE: NINE SPAN CONTINUOUS STEEL GIRDER WITH REINFORCED CONCRETE DECK AND SUPERSTRUCTURE
 SPANS: 88.96', 101.67', 108.56', 105.38', 113.35', 105.38', 98.30', 90.32', 79.70'
 ROADWAY: VARIES, SLAB WIDTH 111'-9" TO 74'-6"
 LOADING: HS20-44 & INTERSTATE ALTERNATE
 WEARING SURFACE: 5"± ASPHALT OVERLAY
 SKEW: VARIES
 APPROACH SLABS: 25'-0" LONG
 ALIGNMENT: TANGENT, VARIES
 CROWN: 3/16" / FT.
 STRUCTURAL FILE NUMBER: 2504413
 DATE BUILT: 1975
 DISPOSITION: TO BE REMOVED

PROPOSED STRUCTURE

TYPE: FIVE SPAN CONTINUOUS COMPOSITE CURVED STEEL GIRDER (ASTM A709 GRADE 50W AND GRADE 70W) WITH REINFORCED CONCRETE DECK ON CAPPED PILE ABUTMENTS AND MULTI-COLUMN PIERS ON DRILLED SHAFTS.
 SPANS: 158.13', 225.94', 231.93', 218.41', 176.44'
 ROADWAY: 50'-0" TOE/TOE PARAPET
 LOADING: HL-93 AND FUTURE WEARING SURFACE 0.06 KSF
 WEARING SURFACE: 1" MONOLITHIC CONCRETE
 SKEW: R.A. 35°57'4" LF, PIER 1 40°18'23" LF, PIER 2 THRU F.A. 44°57'4" LF
 APPROACH SLABS: 30'-0" LONG (AS-I-81)
 ALIGNMENT: VARIES
 SUPERELEVATION: VARIES, MAX. 0.04
 COORDINATES: LATITUDE 39° 57' 8"
 LONGITUDE 83° 0' 45"

DESIGN AGENCY: ms consultants, inc.
 2221 Schrock Road, Columbus, Ohio 43229
 DATE: 15-Feb
 REVIEWED: STRUCTURE FILE NUMBER 2510026
 DRAWN: ELS
 DESIGNED: ELS
 CHECKED: AKS
 FRANKLIN COUNTY
 STA. 3042+24.28
 STA. 3052+44.77
 SITE PLAN (SHEET 1 OF 3)
 BRIDGE NO. FRA-70-1323C
 RAMP D3 OVER SCIOTO RIVER
 FRA-70-13.10
 PID No. 89464
 1/70



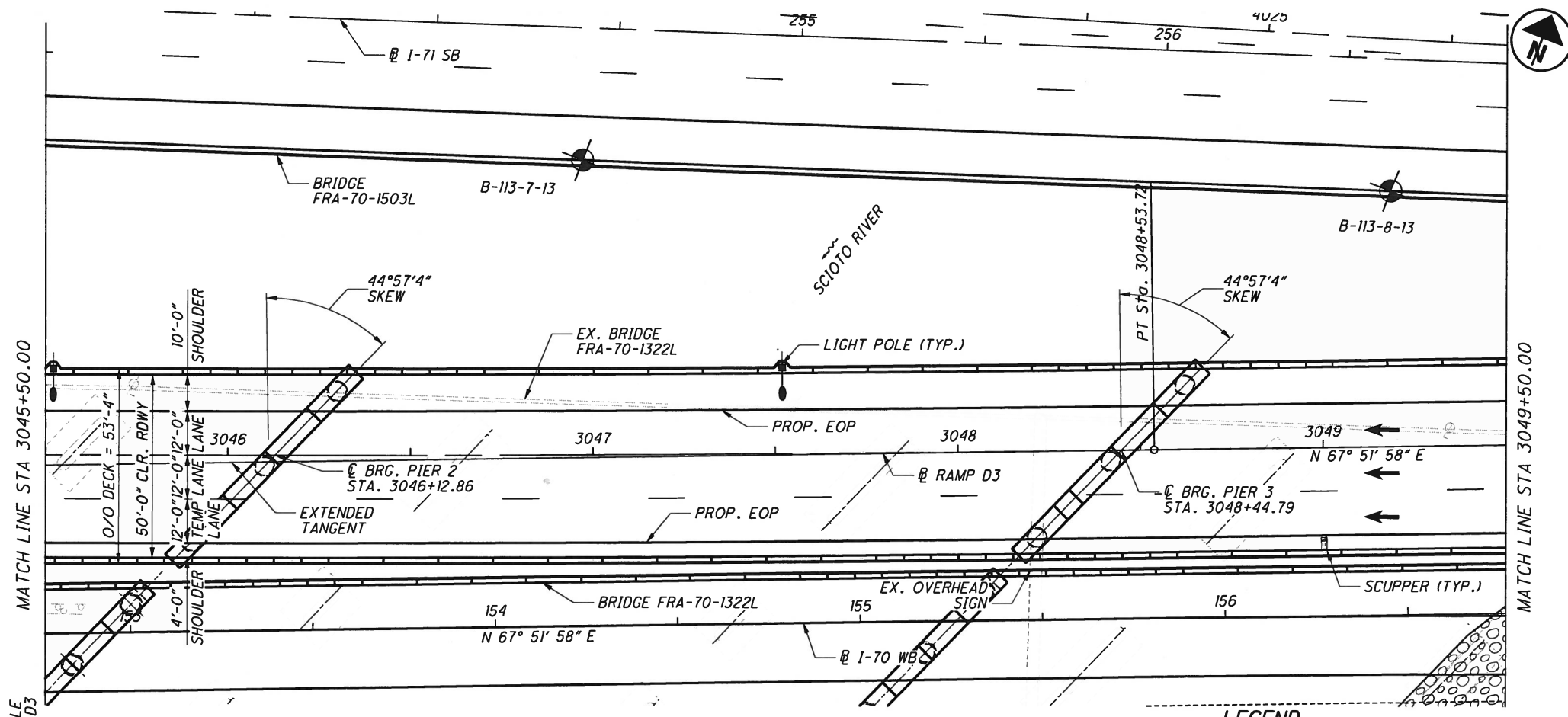
ms consultants, inc.
mconsultants.com

Ohio DOT Workspace
70171 East Interchange 6A
www.mconsultants.com

UCF: ohio/BI
PCF: 60-06634_6A_Columbus

Batchplot Space: \\0330share\160\06634_6A\standards\plotdrv\batchplot.spc
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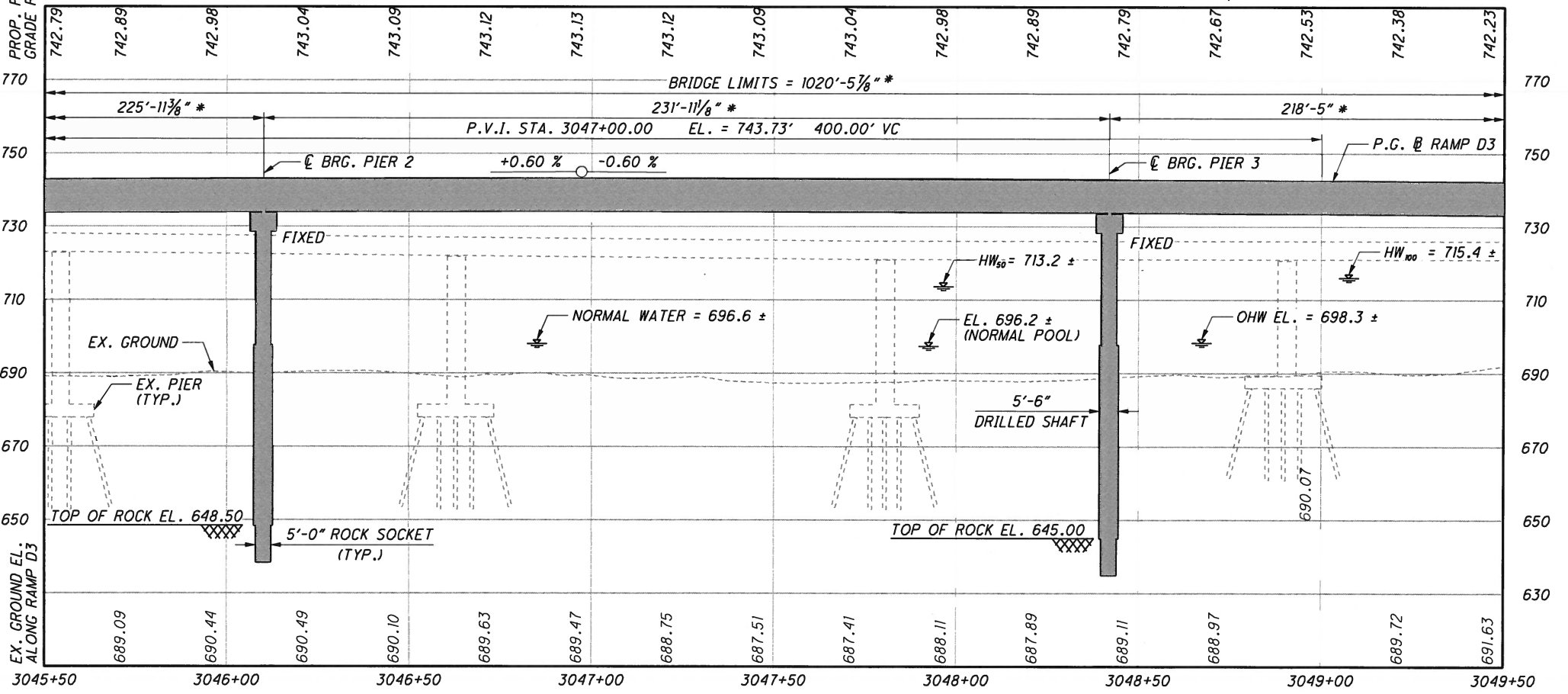
PLAN

LEGEND
BORING LOCATION

HORIZONTAL CURVE DATA

RAMP D3 - CURVE 22
 P.I. STA. = 3043+09.31
 $\Delta = 3^\circ 48' 44''$ (LT)
 $D_c = 0^\circ 21' 00''$
 $R = 16,370.22'$
 $T = 544.81'$
 $L = 1,089.22'$
 $E = 9.06'$
 $e_{max} = NC$
 $v = 60$ MPH
 $C = 1,089.02'$
 $C.B. = N 69^\circ 46' 20'' E$

RAMP D3 - TANGENT 14
 STA. = 3048+53.72
 STA. = 3051+24.75
 $L = 271.03'$
 $BRG. = N 67^\circ 51' 58'' E$



BRIDGE PROFILE ALONG RAMP D3 * DISTANCE MEASURED ALONG RAMP D3

NOTES

1. REFER TO TRAFFIC PLANS FOR LIGHT POLE AND SIGN TRUSS LOCATIONS AND STATIONS.
2. FOR SCUPPER LOCATIONS AND DETAILS, SEE SHEET 62770.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	DATE 15-Feb	REVIEWED ---	DRAWN ELS	DESIGNED ELS	FRANKLIN COUNTY STA. 3042+24.28 STA. 3052+44.77
	STRUCTURE FILE NUMBER 2510026	REVISOR ---	CHECKED AKS	FILED ---	
SITE PLAN (SHEET 2 OF 3)					
BRIDGE NO. FRA-70-1323C RAMP D3 OVER SCIOTO RIVER					
FRA-70-13.10 PID No. 89464					
2 / 70					

PLOT.CEL



ms consultants, inc.
mconsultants.com

Ohio DOT Workspace
70171 East Interchange 6A
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UCF: ohio1vbi
PCF: 60-06634_6A_Columbus

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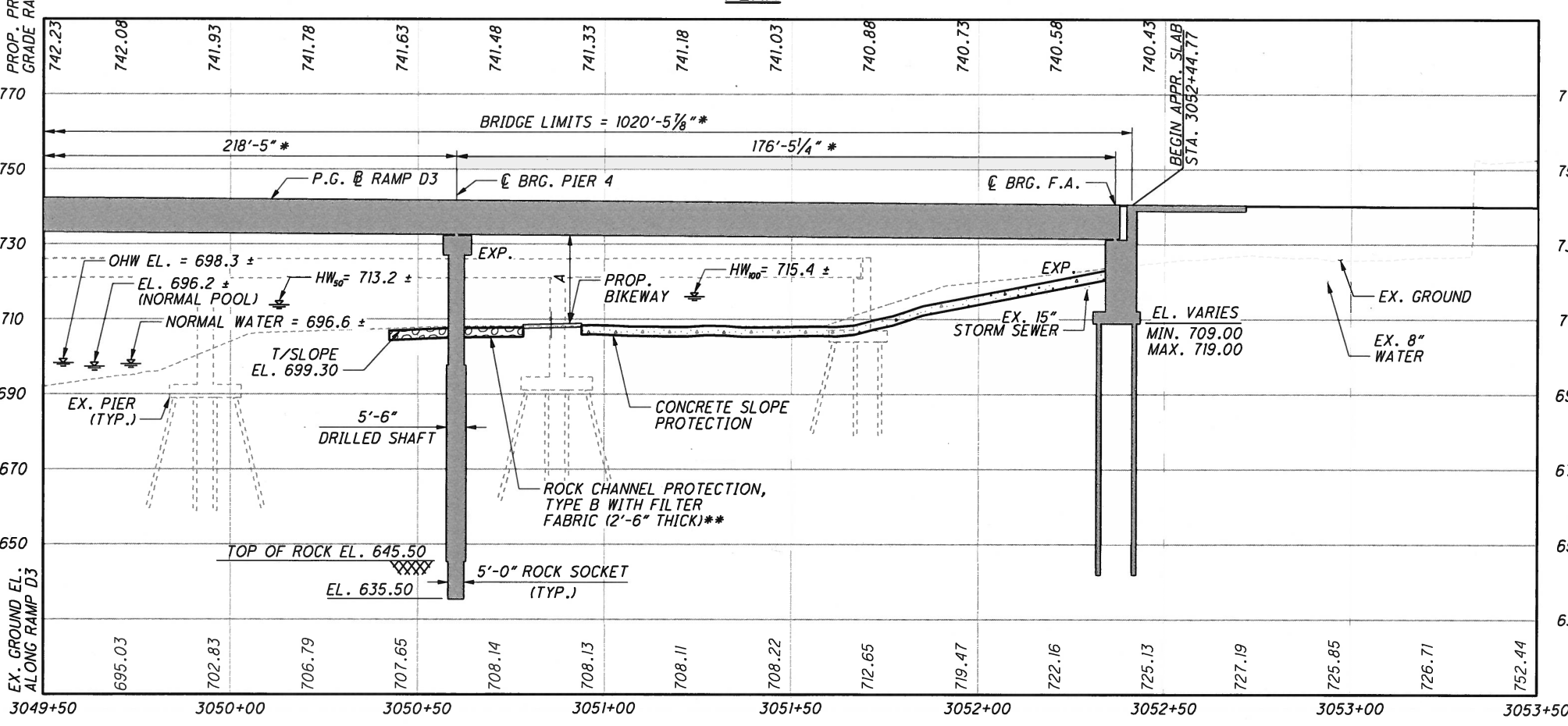
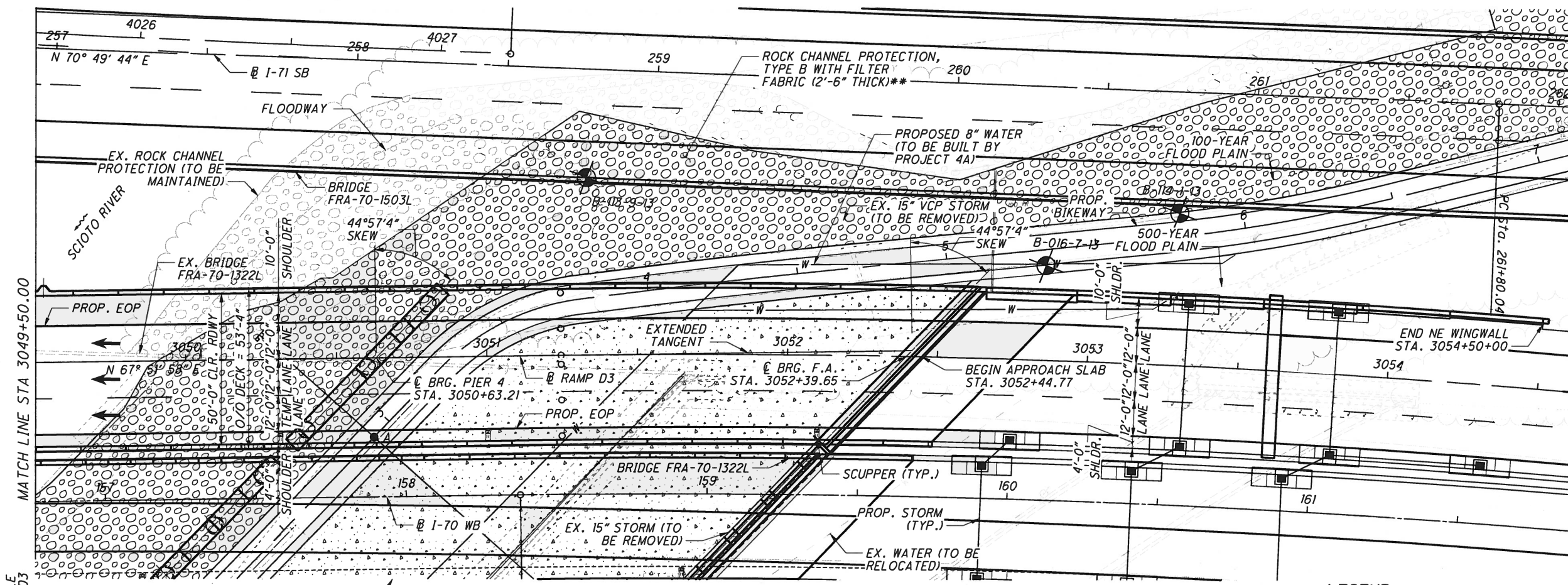
34" x 22"

View: SHEET

Scale: 1" = 20'

Scale: 1" = 20'

Scale: 1" = 20'



LEGEND

◆ BORING LOCATION

HORIZONTAL CURVE DATA

RAMP D3 - TANGENT 14
STA. = 3048+53.72
STA. = 3051+24.75
L = 271.03'
BRG. = N 67°51' 58" E

RAMP D3 - CURVE 23
P.I. STA. = 3060+07.07
Δ = 29° 08' 02" (RT)
Dc = 1° 41' 15"
R = 3,395.31'
T = 882.32'
L = 1,726.45'
E = 112.77'
emax = 0.040
v = 60 MPH
C = 1,707.91'
C.B. = N 82° 25' 59" E

● 10'-0" REQUIRED MINIMUM VERTICAL CLEARANCE
PT. A = 21.87' ACTUAL VERTICAL CLEARANCE

NOTES

- REFER TO TRAFFIC PLANS FOR LIGHT POLE AND SIGN TRUSS LOCATIONS AND STATIONS.
- FOR SCUPPER LOCATIONS AND DETAILS, SEE SHEET 62770.



DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229



DATE
15-Feb

REVIEWED

DRAWN
ELS

DESIGNED
ELS

CHECKED
AKS

STRUCTURE FILE NUMBER
2510026

FRANKLIN COUNTY
STA. 3042+24.28
STA. 3052+44.77

SITE PLAN (SHEET 3 OF 3)
BRIDGE NO. FRA-70-1323C
RAMP D3 OVER SCIO TO RIVER

FRA-70-13.10
PID No. 89464

3 / 70



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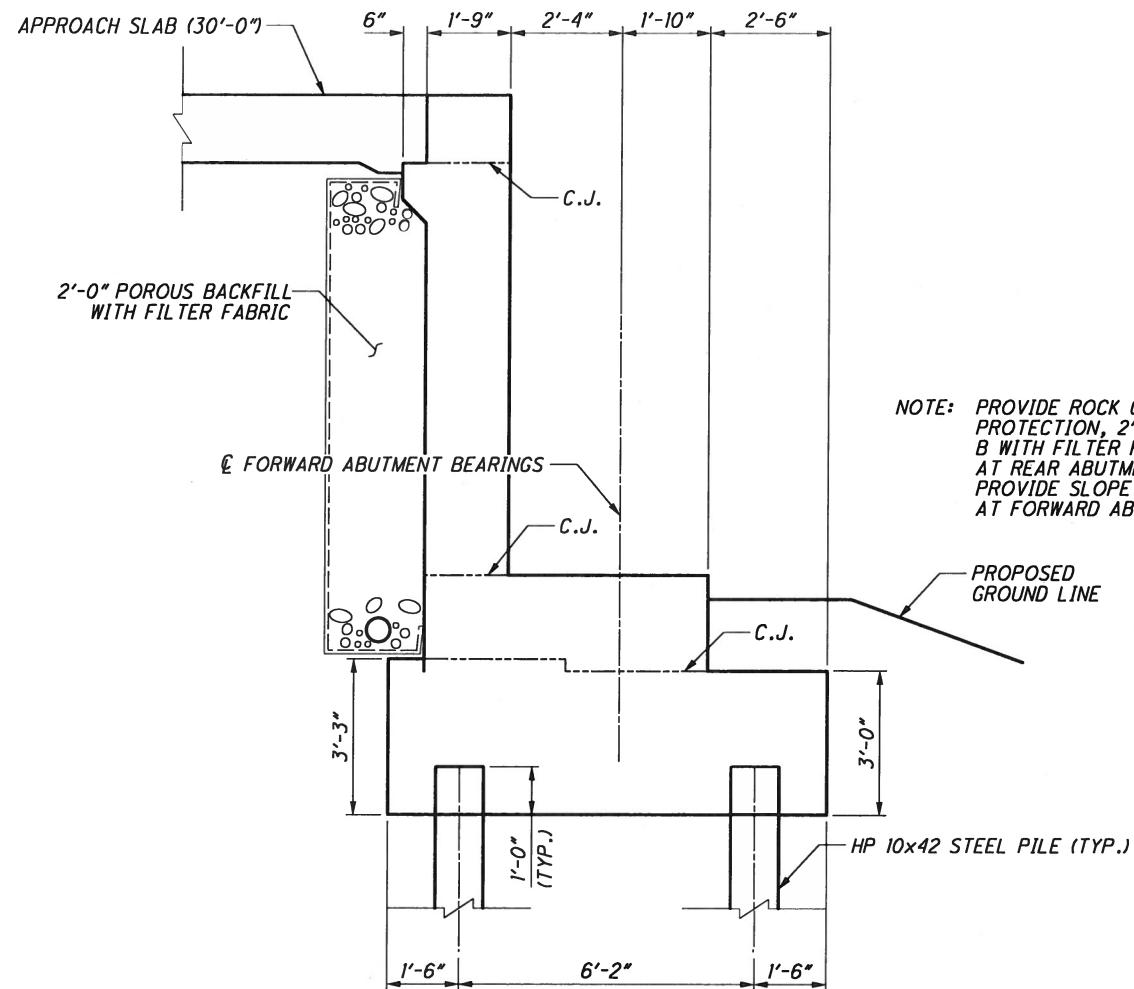
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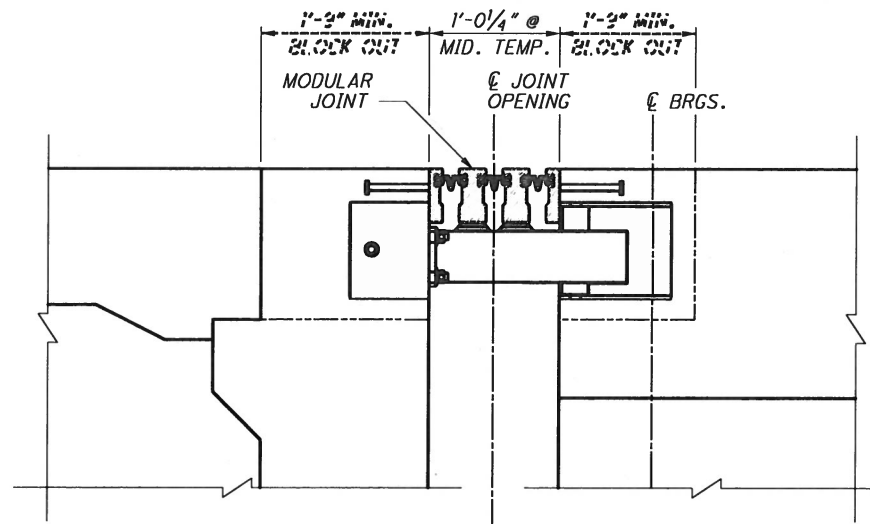


3.4" x 22"



NOTE: PROVIDE ROCK CHANNEL PROTECTION, 2'-6" TYPE B WITH FILTER FABRIC, AT REAR ABUTMENT. PROVIDE SLOPE PAVING AT FORWARD ABUTMENT.

ABUTMENT SECTION



TYPICAL EXPANSION JOINT AT ABUTMENT
(HORIZONTAL DIMENSIONS ARE MEASURED NORMAL TO € BEARINGS)

MODULAR EXPANSION JOINT DETAILS	
ABUTMENT	
R.A.	3 CELLS
F.A.	3 CELLS

DESIGN AGENCY: ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE: 14-MAY
REVIEWED: GLG
DRAWN: ELS
DESIGNED: ELS
CHECKED: TGH

STRUCTURE FILE NUMBER: ---

BRIDGE NO. FRA-70-1323C
RAMP D3 OVER SCIOTO RIVER

ABUTMENT AND EXPANSION JOINT DETAILS - ALTERNATE 2

FRA-70-13.10
PID No. 89464

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UCF: ohioVBI
PCF: 60-06634_6A_Columbus



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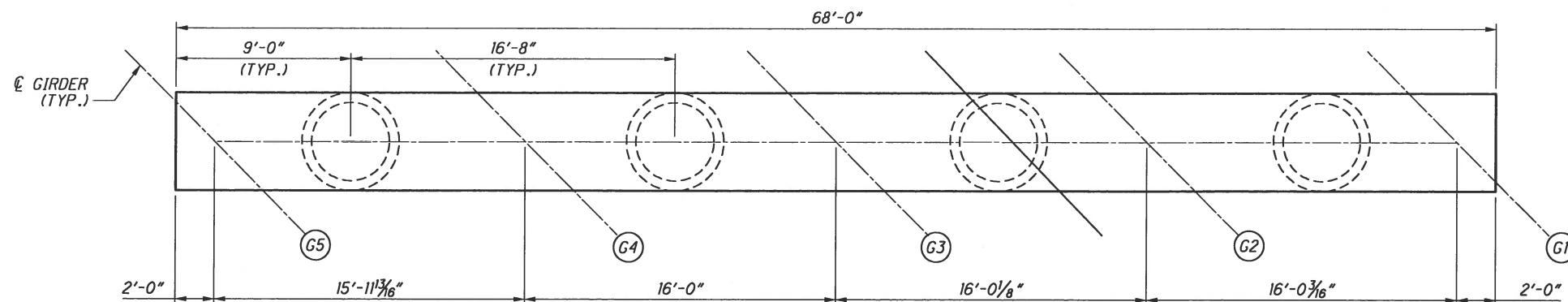
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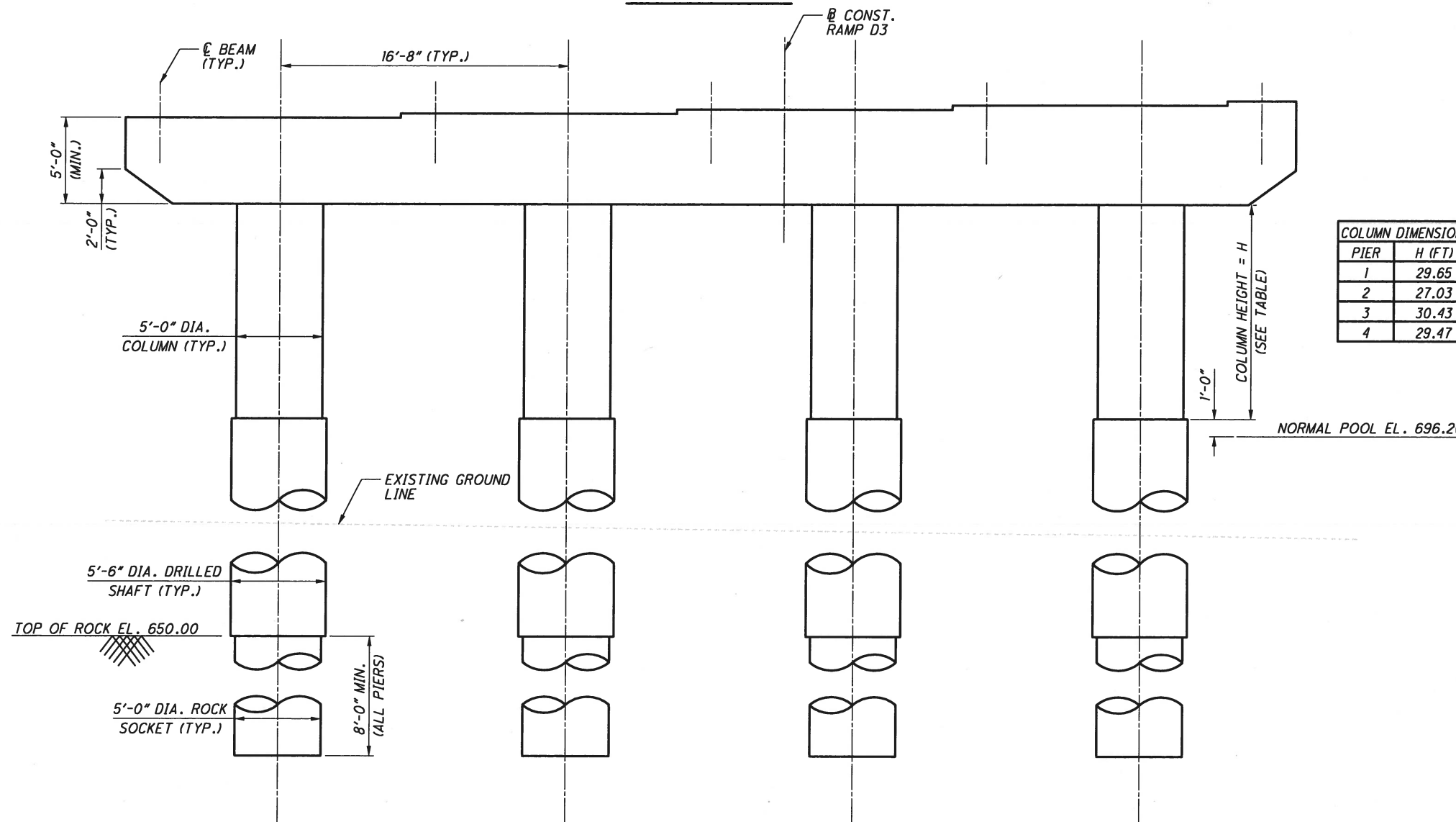
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PIER ELEVATION



COLUMN DIMENSIONS	
PIER	H (FT)
1	29.65
2	27.03
3	30.43
4	29.47

PIER ELEVATION
(PIER 3 SHOWN)

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229



DESIGNED: ELS
CHECKED: TGH
DRAWN: ELS
REVIS: ---
REVIEWED: GLG
STRUCTURE FILE NUMBER: ---
DATE: 14-MAY

PIER PLAN AND ELEVATION - ALTERNATE 2
BRIDGE NO. FRA-70-1323C
RAMP D3 OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

5 / 7



PLOT CEL



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UCF: eblotVBI
PCF: 60-06634_6A_Columbus



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3.4" x 22"

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By: carzuni
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DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229



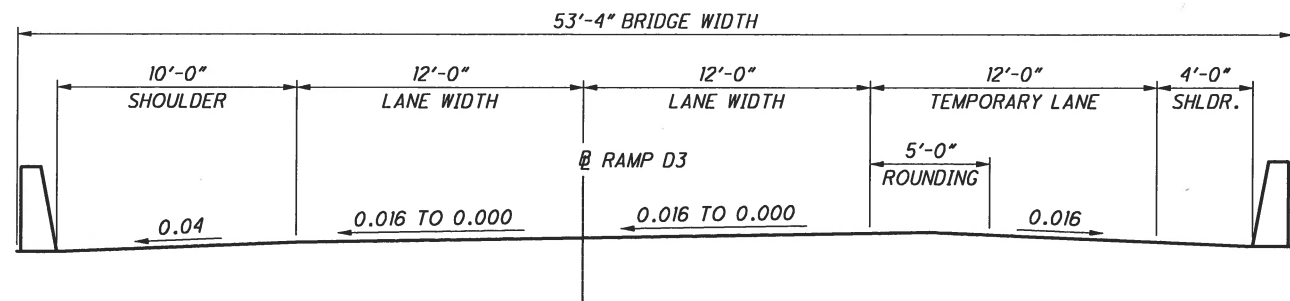
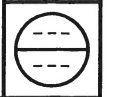
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14-MAY
REVIEWED
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DRAWN
ELS
REVIS
DESIGNED
ELS
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TGH

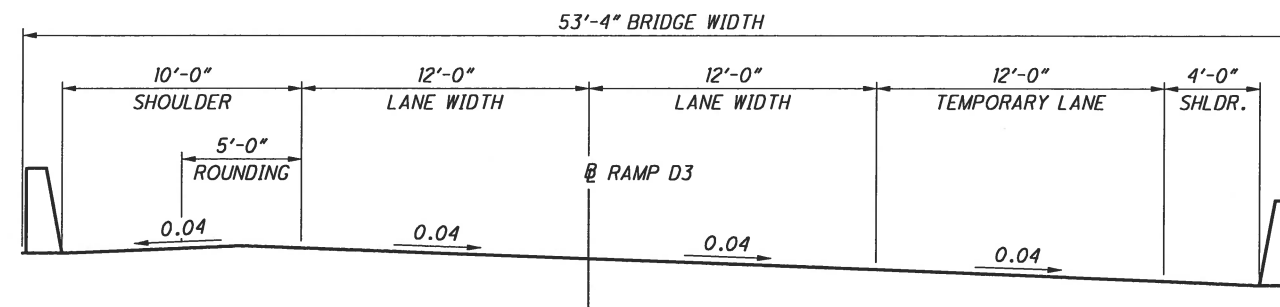
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BRIDGE NO. FRA-70-1323C
RAMP D3 OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

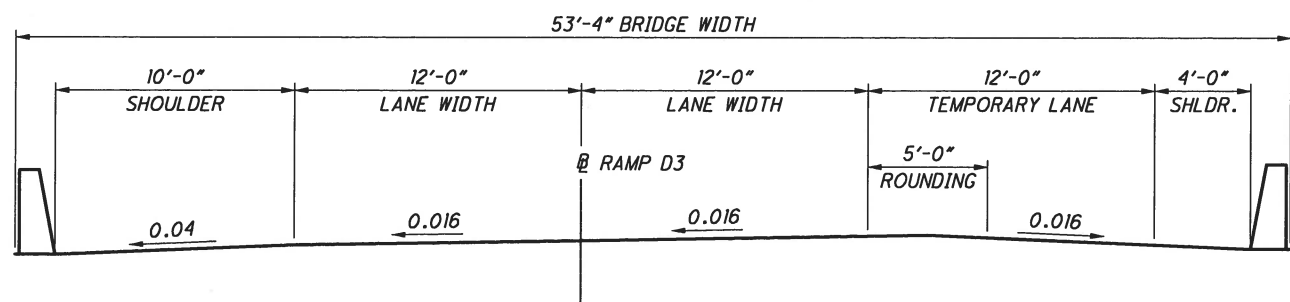
6 / 7



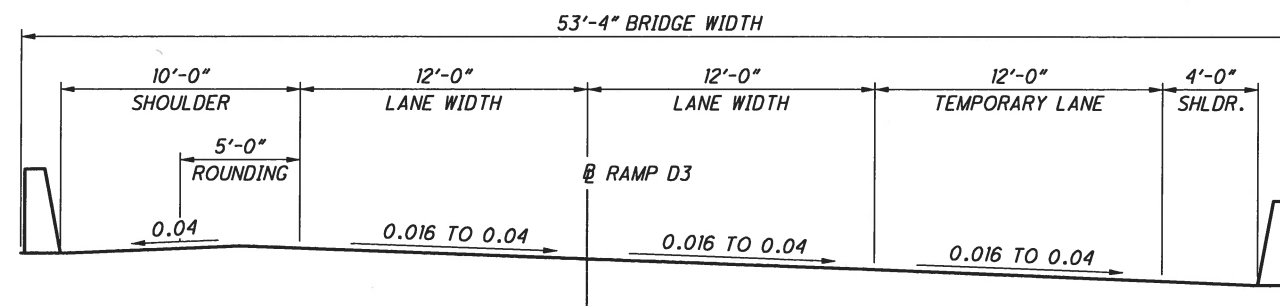
STA. 3048+97.20 TO STA. 3049+82.53



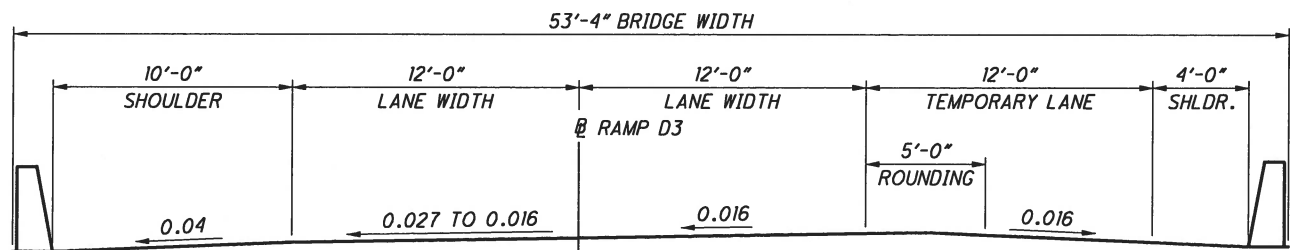
STA. 3051+95.86 TO STA. 3052+68.65



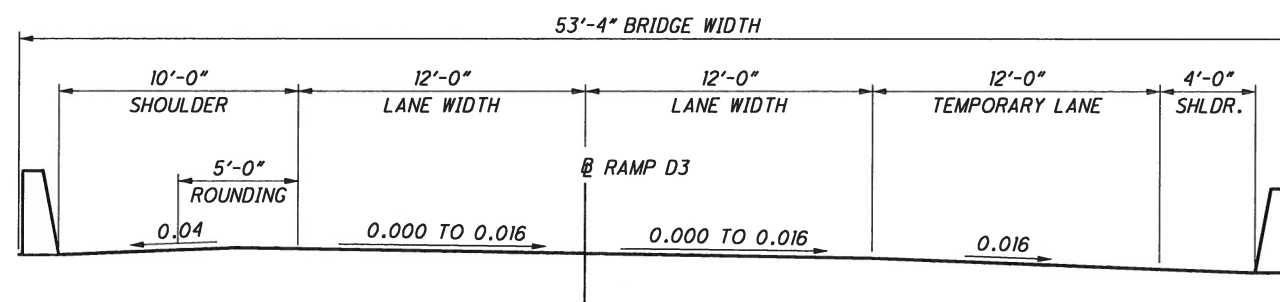
STA. 3042+40.18 TO STA. 3048+97.20



STA. 3050+67.86 TO STA. 3051+95.86



STA. 3042+05.72 TO STA. 3042+40.18



STA. 3049+82.53 TO STA. 3050+67.86



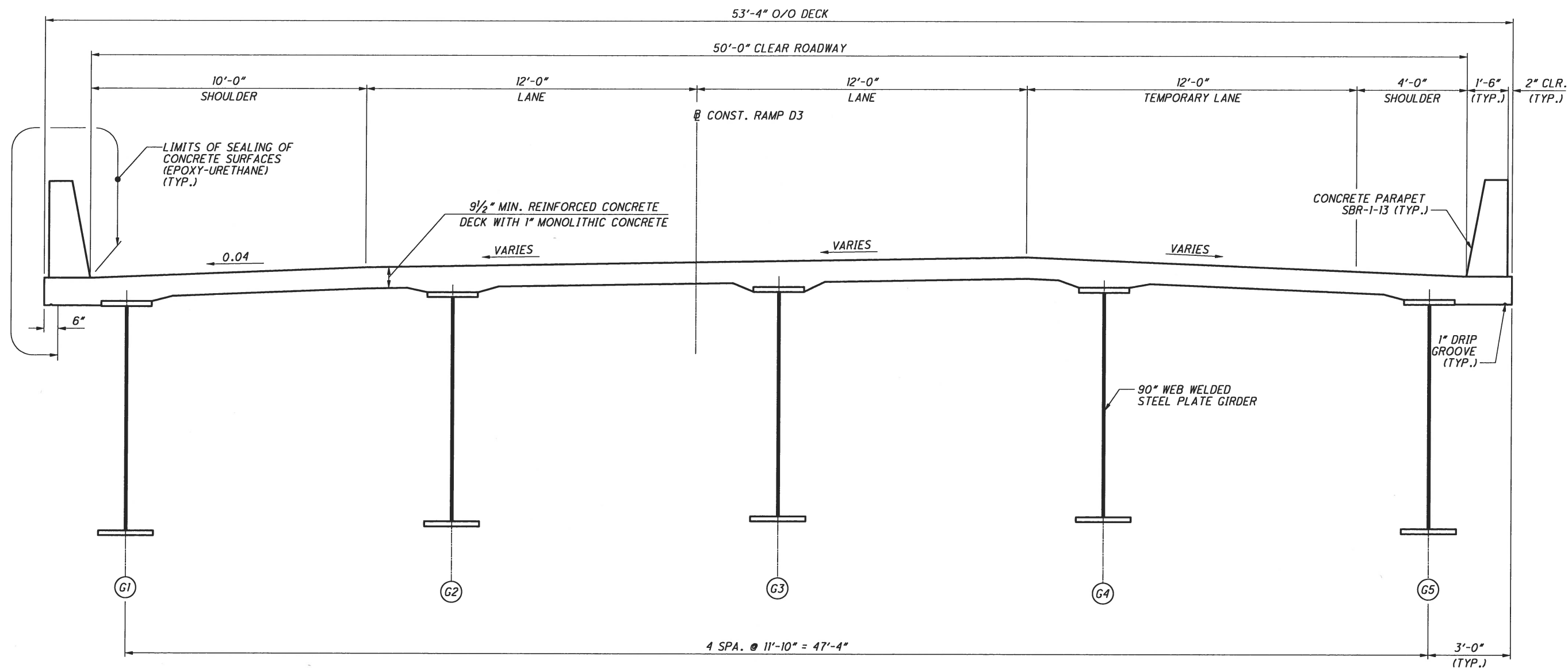
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UCF: ebid01/BI
PCF: 60-06634_6A-Columbus

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TRANSVERSE SECTION- ALTERNATE 2

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	
DATE 14-MGY	REVIEWED GLG
STRUCTURE FILE NUMBER ---	CHECKED TGH
DESIGNED ELS	DRAWN ELS
REVIS	REVIS
<p>TRANSVERSE SECTION - ALTERNATE 2 BRIDGE NO. FRA-70-1323C RAMP D3 OVER SCIOTO RIVER</p>	
<p>FRA-70-13.10 PID No. 89464</p>	
<p>7 / 7</p>	



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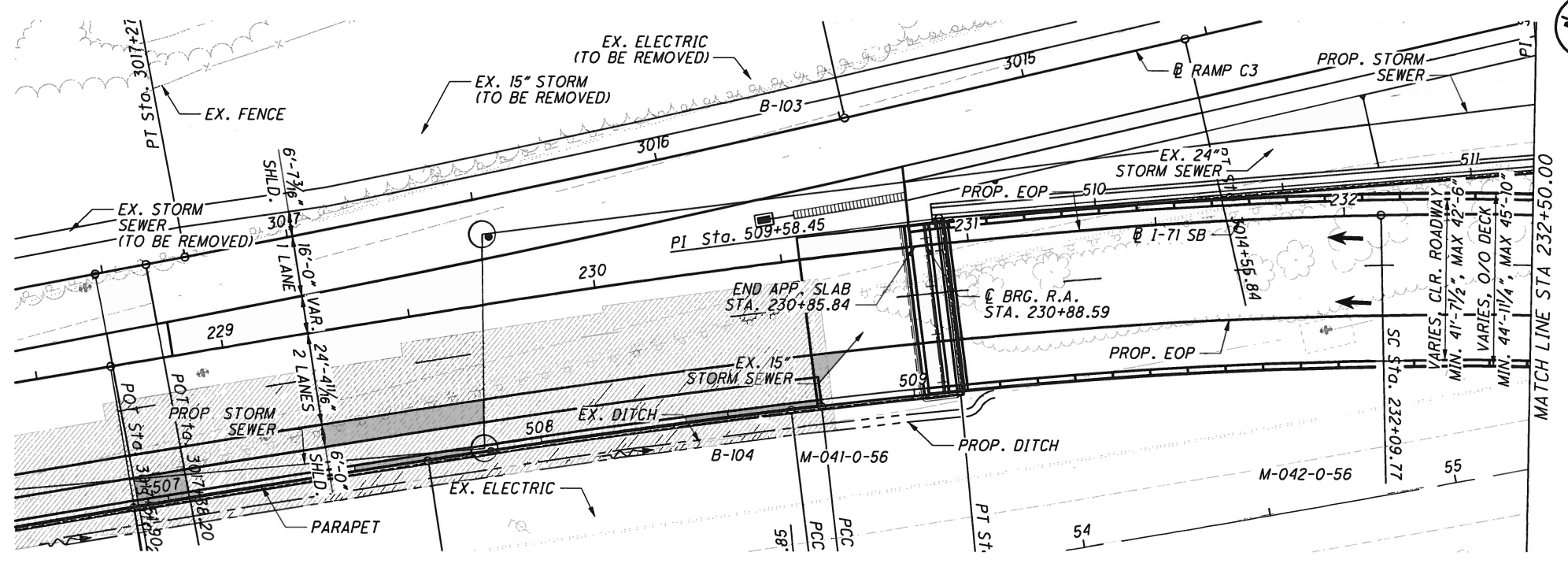
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UCF: eldvd8
PCF: 60-06634_6A_Columbus

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34" x 22"



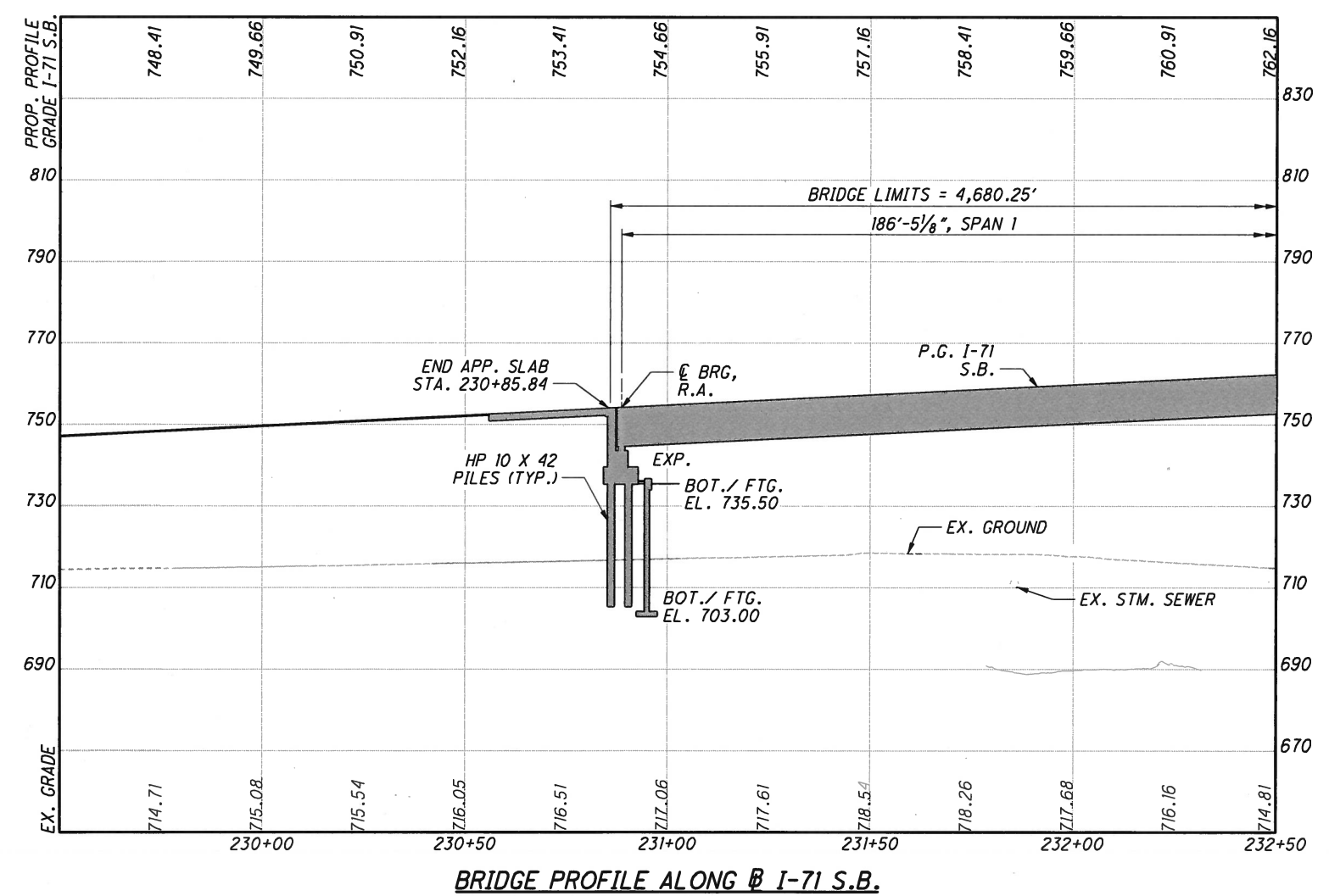
PLAN

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C8	CURVE C9
P.I. STA. 230+96.70	P.I. Sta. 242+59.60
Ls = 340.00'	Δ = 84° 59' 20" (RT)
θs = 8° 30' 00"	Dc = 5° 00' 00"
LT = 226.93'	R = 1,145.92'
ST = 113.57'	T = 1,049.83
x = 339.25'	L = 1,699.78
y = 16.79'	E = 408.20
k = 169.88'	PC STA. 232+09.77
p = 4.20'	PT STA. 249+09.55
TS STA. 228+69.77	
SC STA. 232+09.77	

ESTIMATED PILE LENGTHS

LOCATION	EST. LENGTH
REAR ABUT.	85.50 FT.
PIER 1	49.50 FT.
PIER 2	44.50 FT.
PIER 3	44.50 FT.
PIER 5	56.50 FT.
PIER 6	61.50 FT.
PIER 7	65.50 FT.
PIER 8	61.50 FT.
PIER 9	68.50 FT.
PIER 15	73.50 FT.
PIER 16	77.71 FT.
PIER 17	74.56 FT.
PIER 18	63.58 FT.
FWD. ABUT.	98.62 FT.



BRIDGE PROFILE ALONG I-71 S.B.

BENCHMARK DATA

BM #1 STA.	ELEV. XXX.XX,	OFFSET
BM #2 STA.	ELEV. XXX.XX,	OFFSET
BM #3 STA.	ELEV. XXX.XX,	OFFSET
BM #4 STA.	ELEV. XXX.XX,	OFFSET

FOR ADDITIONAL BENCHMARK INFORMATION. SEE ROADWAY PLAN SHEET

NOTES

EARTHWORK LIMITS SHOWN ARE APPROXIMATE. ACTUAL SLOPES SHALL CONFORM TO PLAN CROSS SECTIONS. ALL EXISTING UTILITIES TO REMAIN (U.N.O.)
DESIGN TRAFFIC:
RAMP TO I-71 S.B./315 OVER SCIOTO
2015 ADT = 29,650 2015 ADTT = 4,450
2035 ADT = 38,300 20XX ADTT = 5,700
DIRECTIONAL DISTRIBUTION = 1.0
I-71 S.B. (WEST OF 315 SPLIT)
2015 ADT = 16,950 2015 ADTT = 3,220
2035 ADT = 21,100 20XX ADTT = 4,000
DIRECTIONAL DISTRIBUTION = 1.0

LEGEND

- PROJECT BORING LOCATION
- HISTORIC BORING LOCATION
- CHANNEL EXCAVATION

HYDRAULIC DATA

DRAINAGE AREA = 1,629 SQ. MILES
Q (100) = 75,000 CFS V (100) = 5.4 FT/S
Q (50) = 62,100 CFS V (50) = 5.0 FT/S
STRUCTURE CLEARS THE 50 YEAR DESIGN HW BY 62.87 FEET.

EXISTING STRUCTURE
TYPE: CONTINUOUS CURVED STEEL W/ REINFORCED CONCRETE DECK AND SUBSTRUCTURE
SPANS: 58.5', 95.25', 90.25', 93.5', 108.0' & 124.0'
ROADWAY: 30'-0" FACE TO FACE OF PARAPET
LOADING: HS20-44 & INTERSTATE ALTERNATE
SKEW: VARIES
APPROACH SLABS: AS-1-67, 25'-0" LONG
ALIGNMENT: VARIES
SUPERELEVATION: 0.0833'/FT
WEARING SURFACE: 1" MONOLITHIC CONCRETE
DISPOSITION: TO BE REMOVED
PROPOSED STRUCTURE
TYPE: 3 UNIT (9 SPAN, 7 SPAN AND 7 SPAN) COMPOSITE HYBRID STEEL GIRDER (A709 GRADE 50W & GRADE T0W) WITH REINFORCED CONC. DECK, REAR AND FORWARD ABUTMENTS ON PILES IN FRONT OF MSE WALLS, PIERS ON PILES AND DRILLED SHAFTS.
SPANS: 178.51', 239.59', 224.20', 253.82', 253.82', 253.82', 240.85', 176.35', 105.53', 216.72', 242.05', 219.22', 214.52', 200.0', 197.27', 164.98', 190.01', 226.06', 225.06', 211.97', 207.31', 106.63' & 126.46'
ROADWAY: VARIES - MIN. 41'-7/2", MAX. 95'-5/8" TOW/TOE PARAPET
LOADING: HL93 AND FUTURE WEARING SURFACE 0.06 KSF
SKEW: NONE
WEARING SURFACE: 1" MONOLITHIC CONCRETE
APPROACH SLABS: AS-1-81, 30' LONG (MODIFIED)
ALIGNMENT: VARIES
SUPERELEVATION: VARIES
COORDINATES: LATITUDE 39° 56' 55" LONGITUDE 83° 00' 59"

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229



DATE	REVIEWED	DATE	DESIGNED
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FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

SITE PLAN (1 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

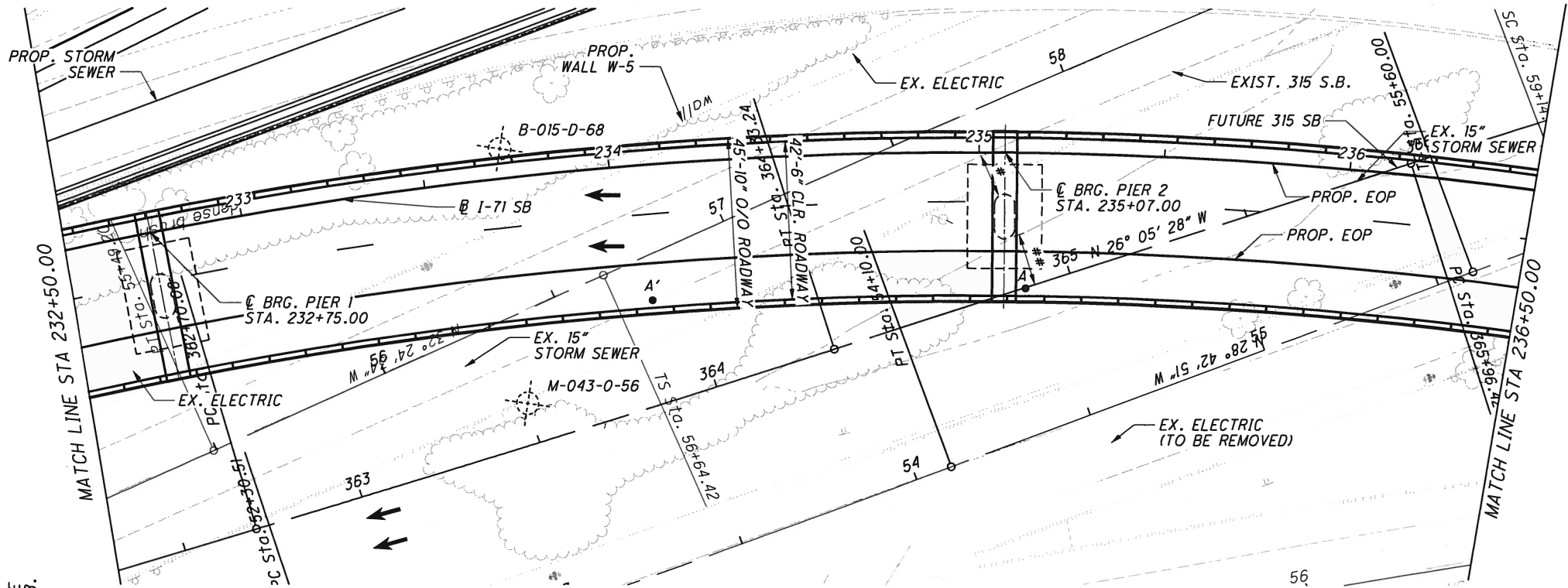


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UCF: oldidVBI
PGF: 60-06634-6A-Columbus

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PLAN

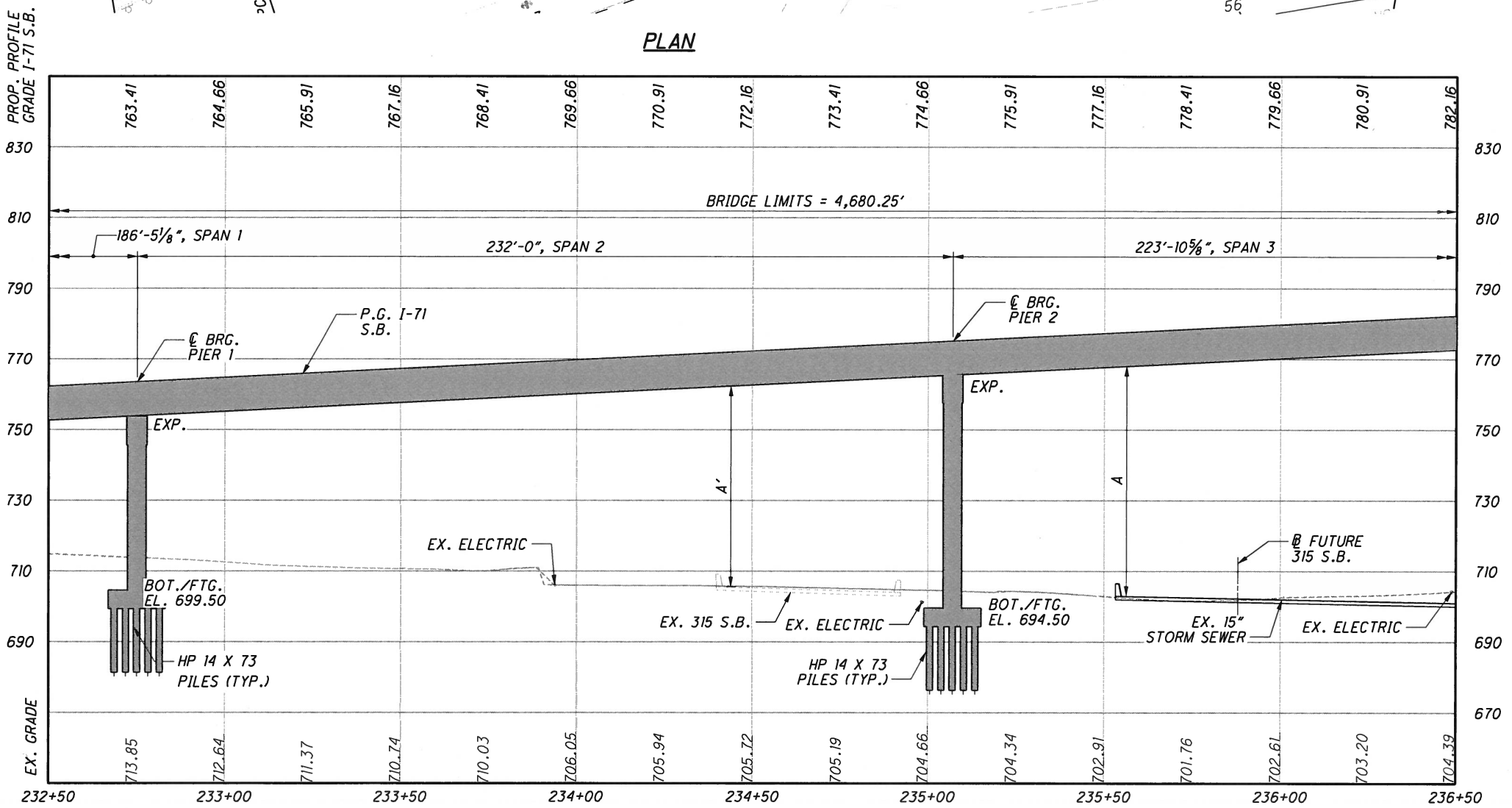


● 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
PT. A = 57.56' ACTUAL VERTICAL CLEARANCE
PT. A' = 49.22' ACTUAL VERTICAL CLEARANCE

* = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
11'-9 5/8" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
** = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
14'-1 1/8" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C8		CURVE C9	
P.I. STA. 230+96.70	Ls = 340.00'	P.I. Sta. 242+59.60	Δ = 84° 59' 20" (RT)
θ s = 8° 30' 00"	LT = 226.93'	Dc = 5° 00' 00"	R = 1,145.92'
ST = 113.57'	x = 339.25'	T = 1,049.83	L = 1,699.78
y = 16.79'	k = 169.88'	E = 408.20	PC STA. 232+09.77
p = 4.20'	TS STA. 228+69.77	PT STA. 249+09.55	
SC STA. 232+09.77			



BRIDGE PROFILE ALONG I-71 S.B.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE
REVIEWED
DRAWN
DESIGNED
FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

STRUCTURE FILE NUMBER
2510025

CHECKED

SITE PLAN (2 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13-10
PID No. 89464

2 / 88



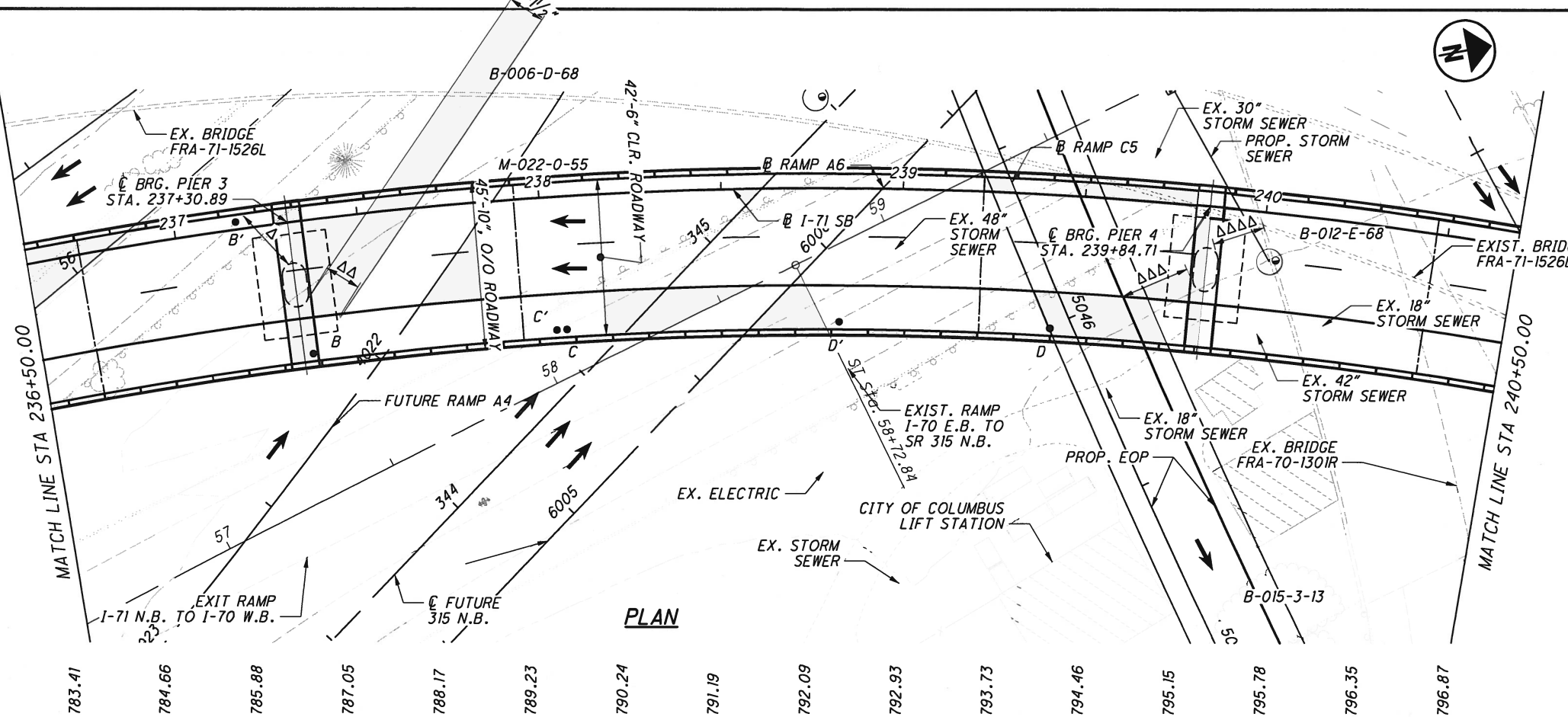
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UCF: ohdotVBI
PCF: 60-06634_6A_Columbus

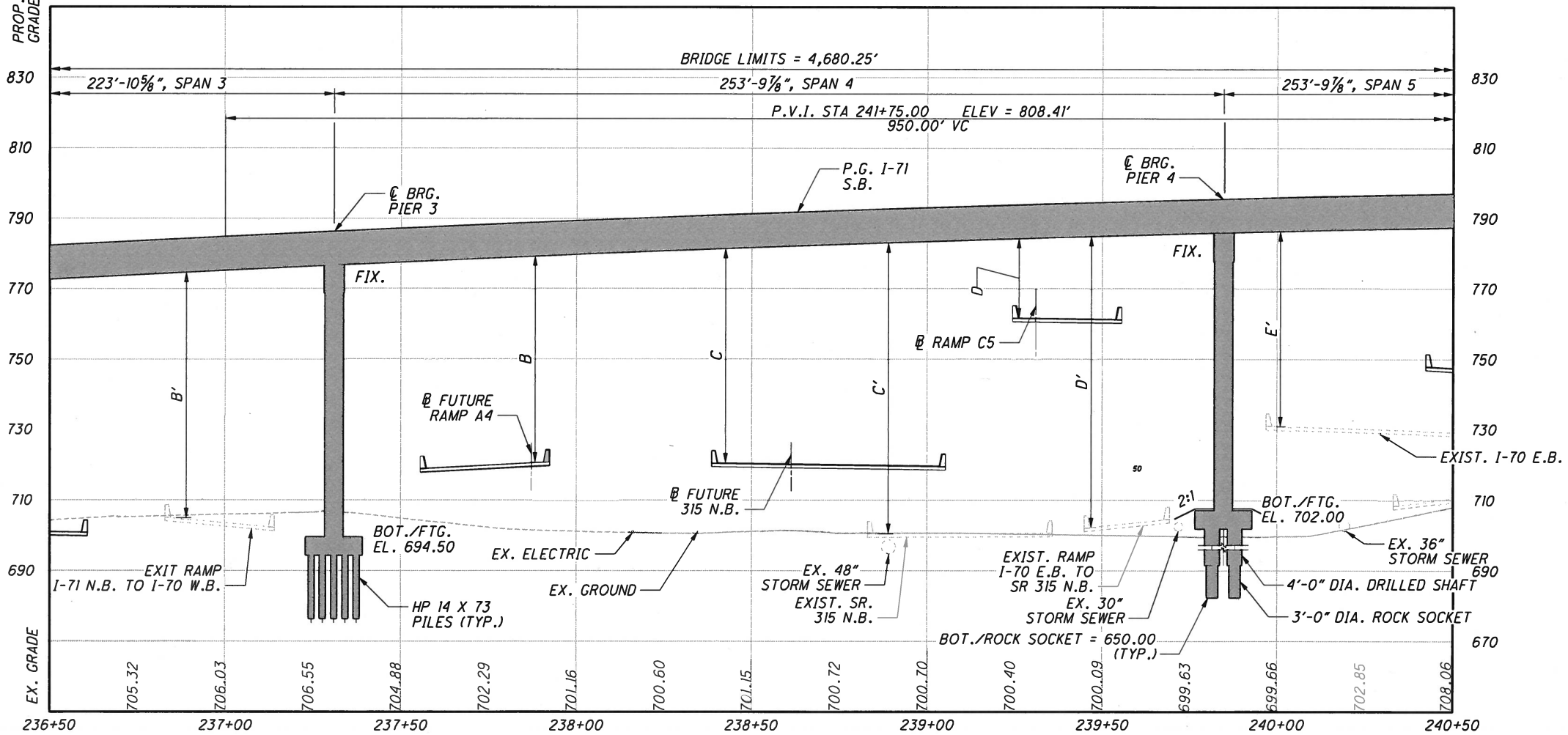
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PLAN

- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
- PT. B = 56.35' ACTUAL VERTICAL CLEARANCE
- PT. C = 57.64' ACTUAL VERTICAL CLEARANCE
- PT. D = 20.02' ACTUAL VERTICAL CLEARANCE
- PT. B' = 69.93 ACTUAL VERTICAL CLEARANCE
- PT. C' = 76.24' ACTUAL VERTICAL CLEARANCE
- PT. D' = 80.11' ACTUAL VERTICAL CLEARANCE
- PT. E' = 57.40' ACTUAL VERTICAL CLEARANCE (PT. ON NEXT SHEET IN PLAN VIEW)
- Δ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 18'-1/4" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ΔΔ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 9'-10 1/16" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ΔΔΔ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 19'-2 5/16" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ΔΔΔΔ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 14'-5 5/8" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)



BRIDGE PROFILE ALONG B I-71 S.B.

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C9

P.I. Sta. 242+59.60
 $\Delta = 84^\circ 59' 20"$ (RT)
 $D_c = 5^\circ 00' 00"$
 $R = 1,145.92'$
 $T = 1,049.83$
 $L = 1,699.78$
 $E = 408.20$
 $PC \text{ STA. } 232+09.77$
 $PT \text{ STA. } 249+09.55$

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	DATE
DRAWN	REVIEWED
CHECKED	FILE NUMBER
STRUCTURE FILE NUMBER	2510025

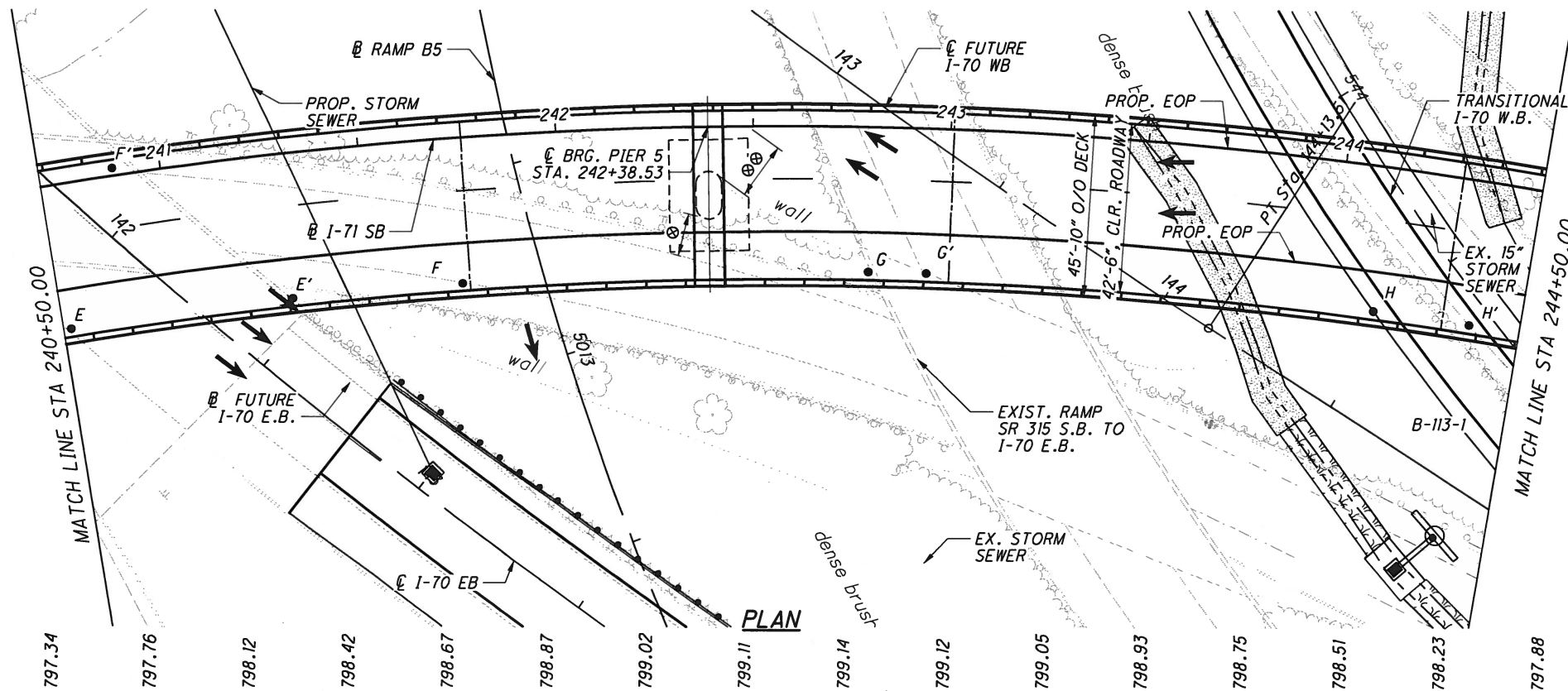
FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

SITE PLAN (3 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

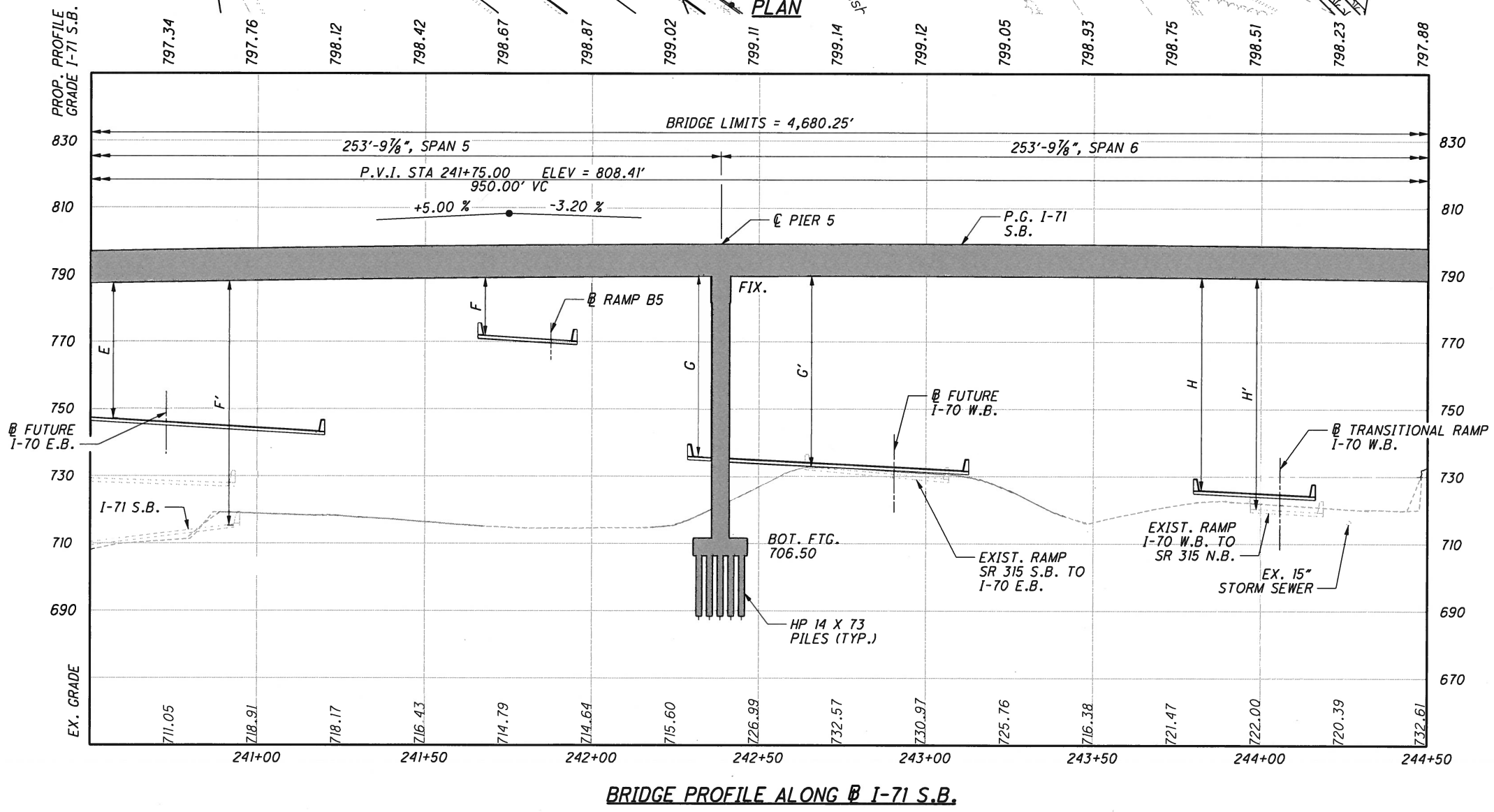
FRA-70-13.10
PID No. 89464

3/88

PLOT.CEL
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 Ohio DOT Workspace
 7071 East Interchange 6A
 Columbus
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 PCF: 60-06634_6A_Columbus
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- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
- PT. E = 22.26' ACTUAL VERTICAL CLEARANCE
- PT. F = 16.10' ACTUAL VERTICAL CLEARANCE
- PT. G = 53.53' ACTUAL VERTICAL CLEARANCE
- PT. H = 60.84' ACTUAL VERTICAL CLEARANCE
- PT. F' = 71.18' ACTUAL VERTICAL CLEARANCE
- PT. G' = 54.81' ACTUAL VERTICAL CLEARANCE
- PT. H' = 66.63' ACTUAL VERTICAL CLEARANCE
- ⊗ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 10'-8 3/4" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ⊗⊗ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 14'-3 3/8" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)



HORIZONTAL CURVE DATA I-71 S.B.

CURVE C9

P.I. Sta. 242+59.60
 $\Delta = 84^\circ 59' 20''$ (RT)
 $D_c = 5^\circ 00' 00''$
 $R = 1,145.92'$
 $T = 1,049.83$
 $L = 1,699.78$
 $E = 408.20$
 PC STA. 232+09.77
 PT STA. 249+09.55

DESIGN AGENCY
ms consultants, inc.
 2221 Schrock Road
 Columbus, Ohio 43229

DATE	---
REVIEWED	---
DRAWN	---
DESIGNED	---
CHECKED	---
REVISED	---
STRUCTURE FILE NUMBER	2510025

FRANKLIN COUNTY
 STA. 230+85.84
 STA. 277+66.09

SITE PLAN (4 OF 12)
 BRIDGE NO. FRA-71-1503L
 I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
 PID No. 89464

4 / 88

PLOT.CEL



ms consultants, inc.
mconsultants.com

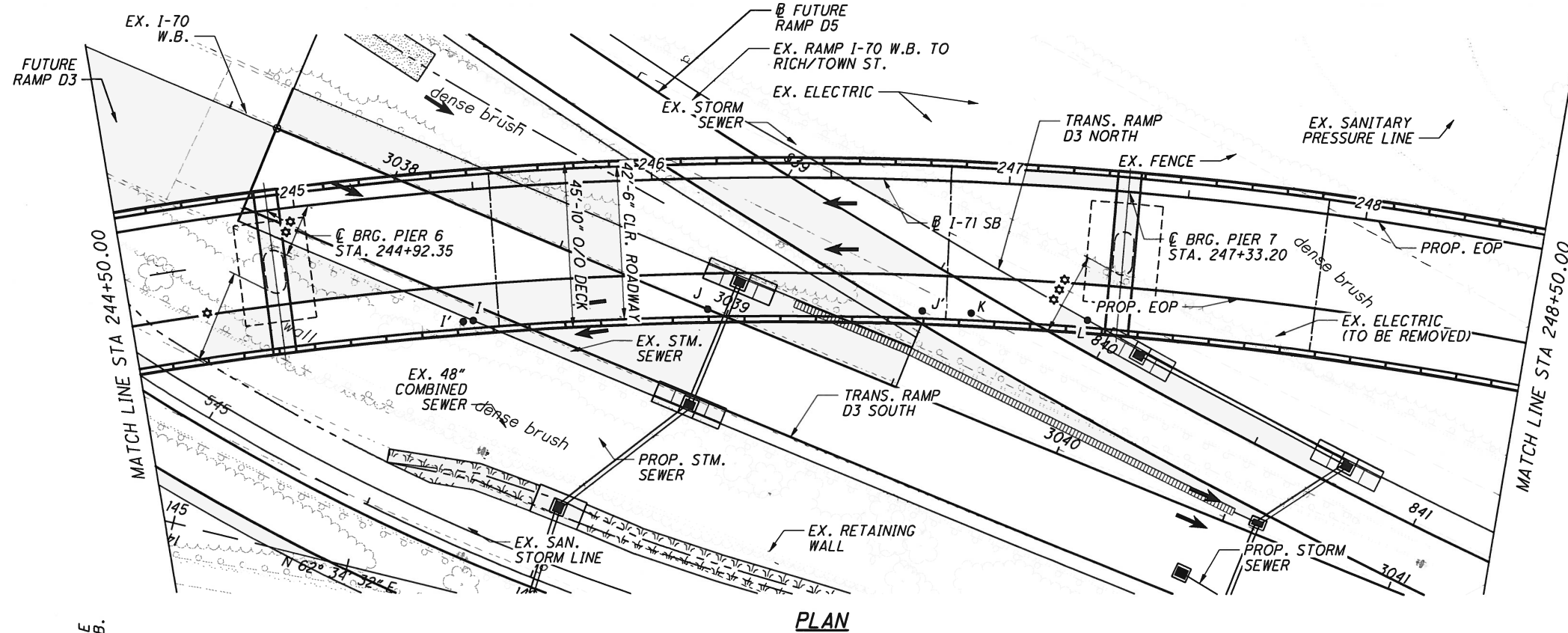
Ohio DOT Workspace
70171 East Interchange 6A
www.mscconsultants.com

UCF: ohio1VBI
PCF: 60-06634_6A_Columbus

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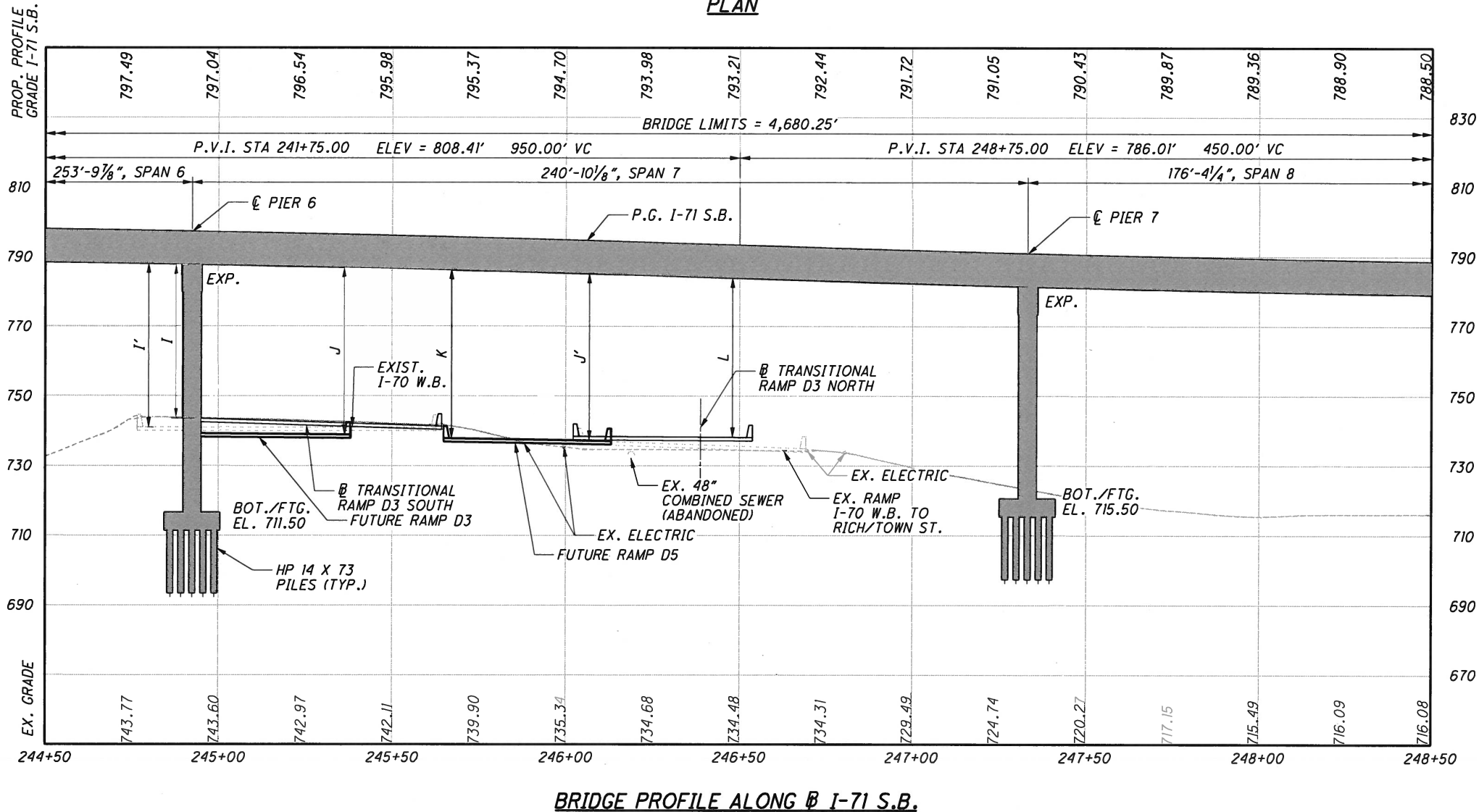
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File: \\0330share\60\06634_6A\structures\FRA071_15031_S0005.dgn



- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
- PT. I = 42.13' ACTUAL VERTICAL CLEARANCE
- PT. J = 43.73' ACTUAL VERTICAL CLEARANCE
- PT. K = 43.38' ACTUAL VERTICAL CLEARANCE
- PT. L = 40.89' ACTUAL VERTICAL CLEARANCE
- PT. I' = 42.18' ACTUAL VERTICAL CLEARANCE
- PT. J' = 43.83' ACTUAL VERTICAL CLEARANCE

- * = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 25'-11⁵/₁₆" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ** = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 15'-4¹/₁₆" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- *** = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 23'-3³/₁₆" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)



HORIZONTAL CURVE DATA I-71 S.B.

CURVE C9
 P.I. Sta. 242+59.60
 Δ = 84° 59' 20" (RT)
 Dc = 5° 00' 00"
 R = 1,145.92'
 T = 1,049.83
 L = 1,699.78
 E = 408.20
 PC STA. 232+09.77
 PT STA. 249+09.55

NOTE:
SEE ROADWAY PLANS FOR TRANS. ROADS ALIGNMENTS.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	DATE REVIEWED DRAWN DESIGNED	STRUCTURE FILE NUMBER 2510025	FRANKLIN COUNTY STA. 230+85.84 STA. 277+66.09
SITE PLAN (5 OF 12) BRIDGE NO. FRA-71-1503L I-71 SB OVER SCIOTO RIVER			
FRA-70-13.10 PID No. 89464			
5 / 88			



Ohio DOT Workspace
7071 East Interchange 6A
www.msconsultants.com

UCF: oldelVBI
PCF: 60-06634_6A-Columbus

Batchplot Spec: \\0330share\160\06634_6A\standards\plotdrv\batchplot.sp
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Plot Driver: S:\std\plotting\win\1\08\PDF.plt

Model: Sheet
Printed: 2/9/2015 2:53:51 PM
View: SHEET
By: pscrhist

HORIZONTAL CURVE DATA

I-71 S.B. CURVE C9
P.I. Sta. 242+59.60
 $\Delta = 84^\circ 59' 20''$ (RT)
 $D_c = 5^\circ 00' 00''$
 $R = 1,145.92'$
 $T = 1,049.83$
 $L = 1,699.78$
 $E = 408.20$
PC STA. 232+09.77
PT STA. 249+09.55

I-71 S.B. CURVE C10
P.I. STA. 250+23.12
 $L_s = 340.00'$
 $\theta_s = 8^\circ 30' 00''$
 $LT = 226.93'$
 $ST = 113.57'$
 $x = 339.25'$
 $y = 16.79'$
 $k = 169.88'$
 $p = 4.20'$
CS STA. 249+09.55
ST STA. 252+49.55

I-71 S.B. CURVE T8
STA. = 252+49.55
STA. = 261+80.04
 $L = 930.49'$
BRG. = $N 70^\circ 49' 44'' E$

RAMP D4 CURVE C24
P.I. STA. 4015+18.08
 $L_s = 140.00'$
 $\theta_s = 7^\circ 00' 00''$
 $LT = 93.41'$
 $ST = 46.73'$
 $x = 139.79'$
 $y = 5.70'$
 $k = 69.97'$
 $p = 1.42'$
CS Sta. 4014+71.35
ST Sta. 4016+11.35

RAMP D4 CURVE C25
P.I. Sta. 4021+67.61
 $\Delta = 5^\circ 33' 30''$ (LT)
 $D_c = 0^\circ 30' 00''$
 $R = 11,459.16'$
 $T = 556.27'$
 $L = 1,111.66'$
 $E = 13.49'$
ST Sta. 4016+11.35
PT Sta. 4027+23.00

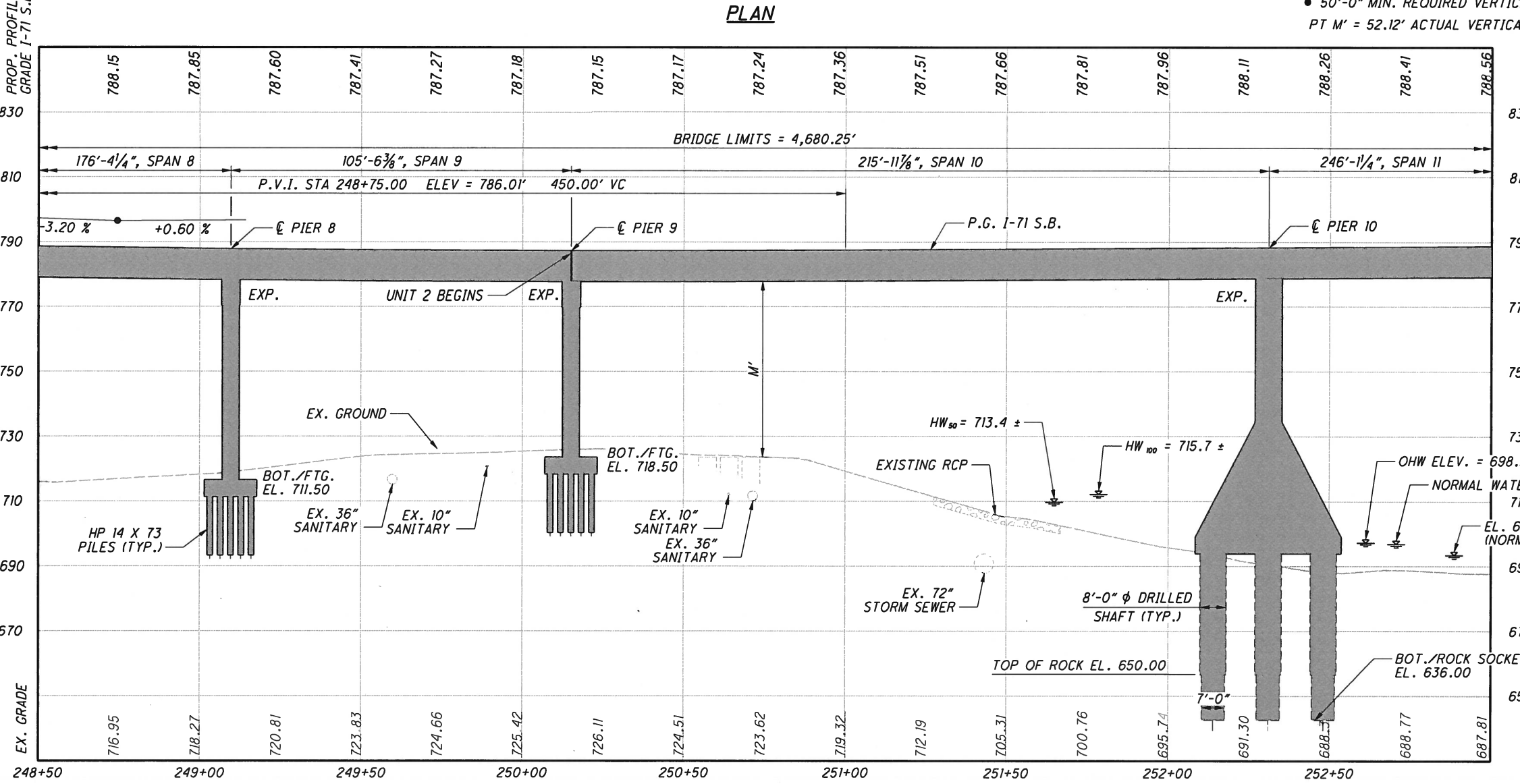
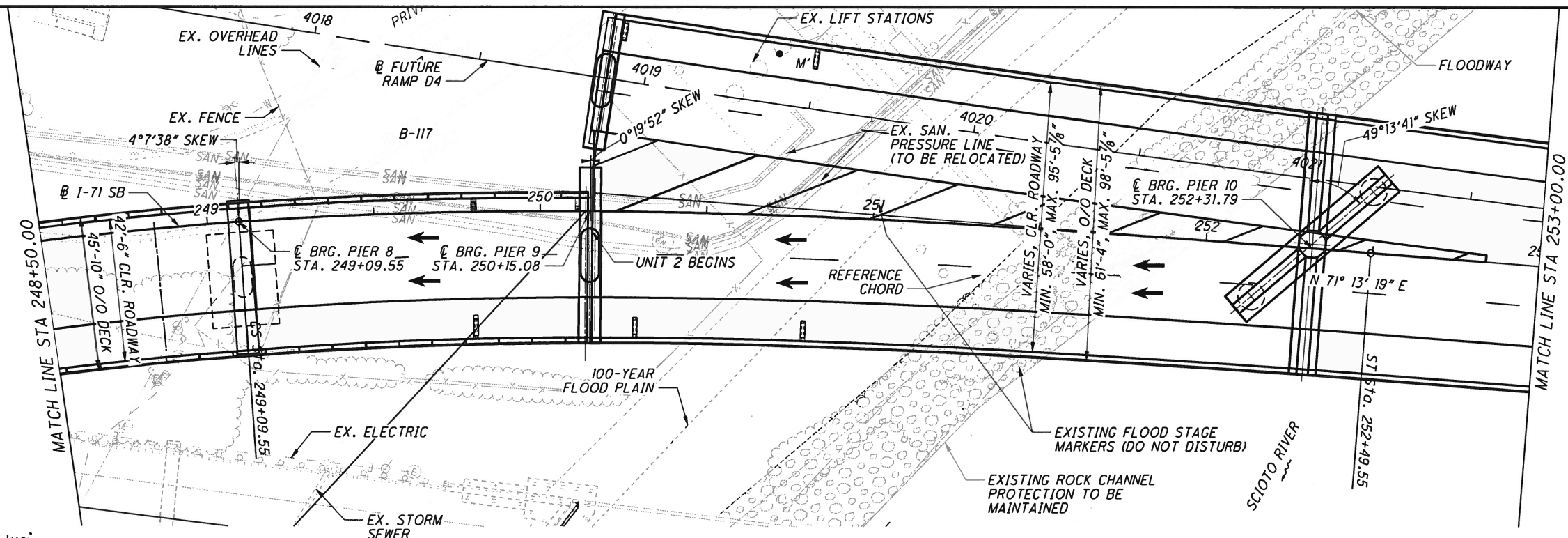
DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE
REVIEWED
DRAWN
DESIGNED
FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

SITE PLAN (6 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13-10
PID No. 89464

6/88



Ohio DOT Workspace
70171 East Interchange 6A
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UCF: omd\VB
PCF: 60-06634_6A_Columbus

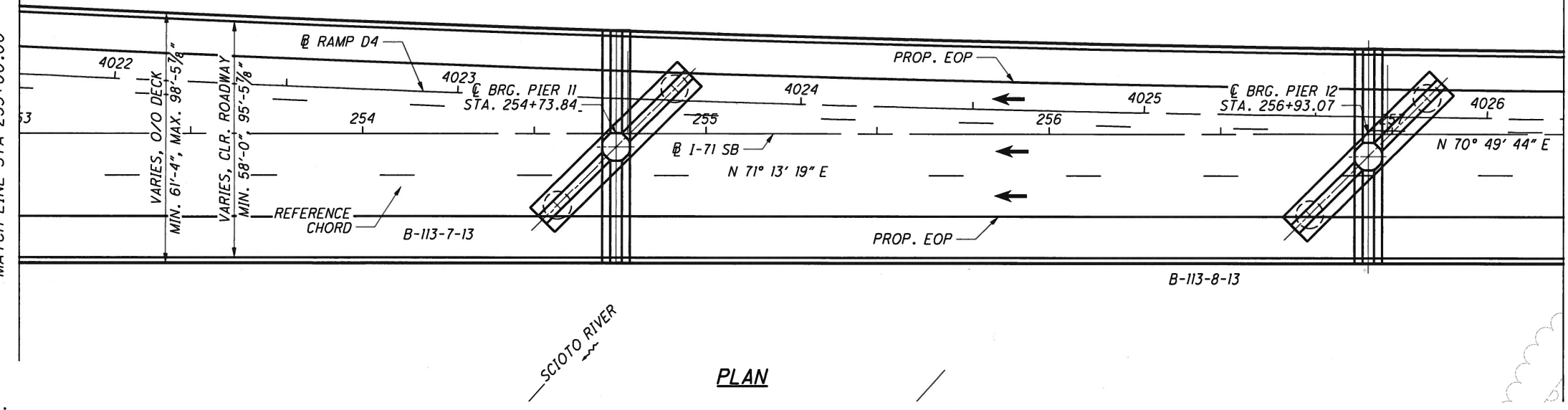
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Model: Sheet
Printed: 2/19/2015 @ 2:53:52 PM
By: psechrist
File: \\0330share\160\06634_6A\Structures\FRA071_1503L\SP007.dgn

MATCH LINE STA 293+00.00

PROP. PROFILE GRADE I-71 S.B.

MATCH LINE STA 257+50.00

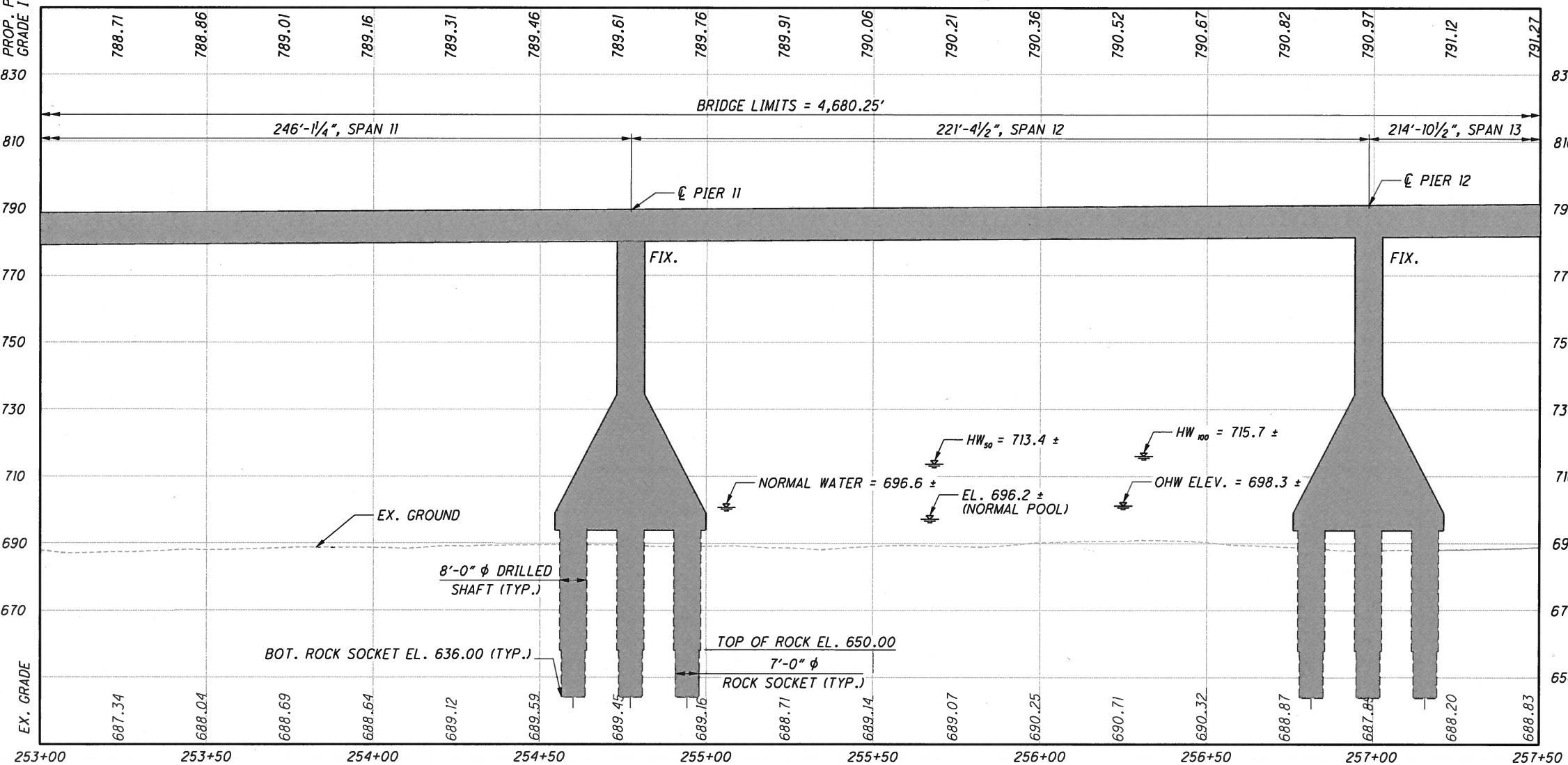


PLAN

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C10
 P.I. STA. 250+23.12
 Ls = 340.00'
 θ s = 8° 30' 00"
 LT = 226.93'
 ST = 113.57'
 x = 339.25'
 y = 16.79'
 k = 169.88'
 p = 4.20'
 CS STA. 249+09.55
 ST STA. 252+49.55

TANGENT T8
 STA. = 252+49.55
 STA. = 261+80.04
 L = 930.49'
 BRG. = N 70° 49' 44\"/>



BRIDGE PROFILE ALONG I-71 S.B.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE
REVIEWED
DRAWN
DESIGNED
CHECKED

STRUCTURE FILE NUMBER
2510025

FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

SITE PLAN (7 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

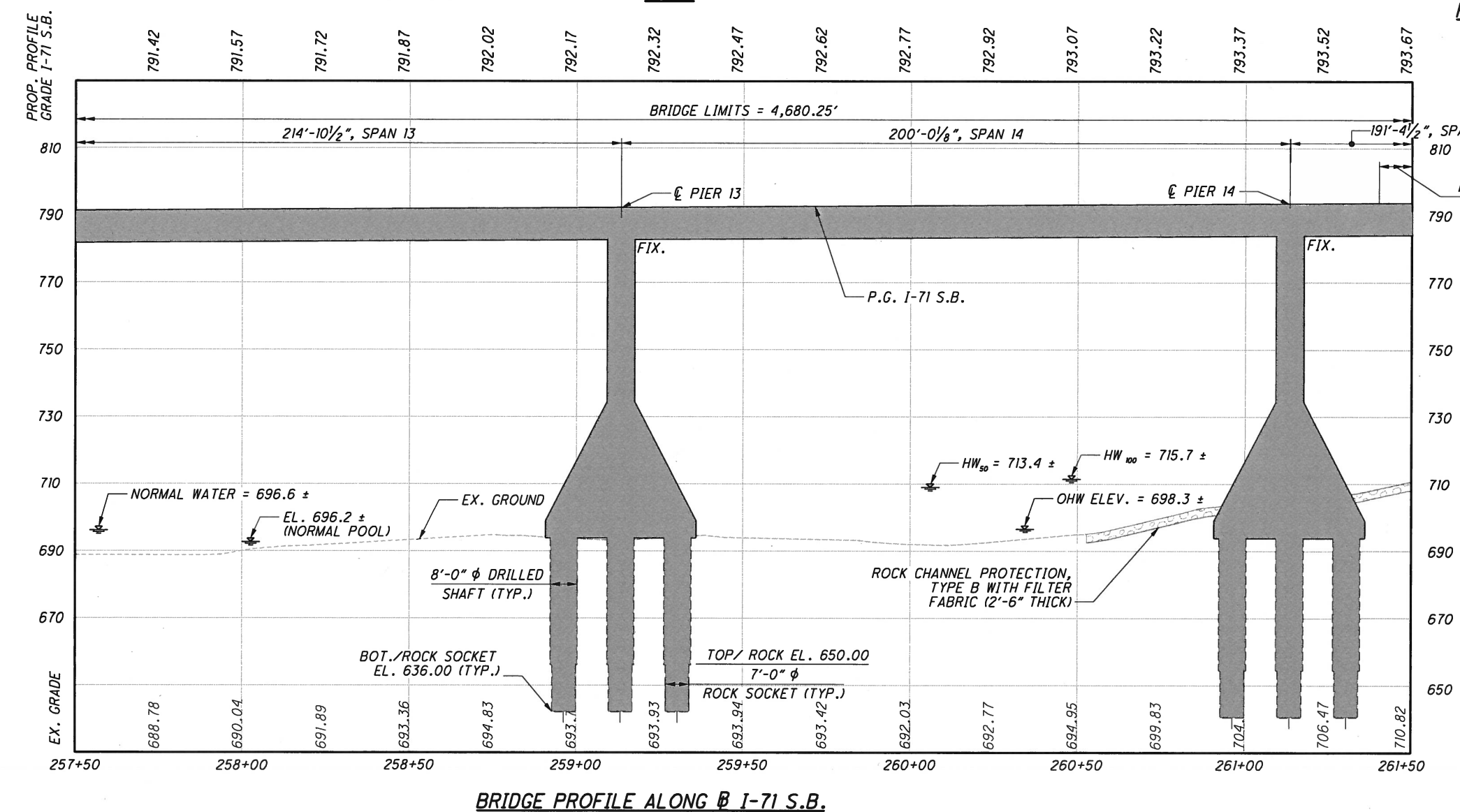
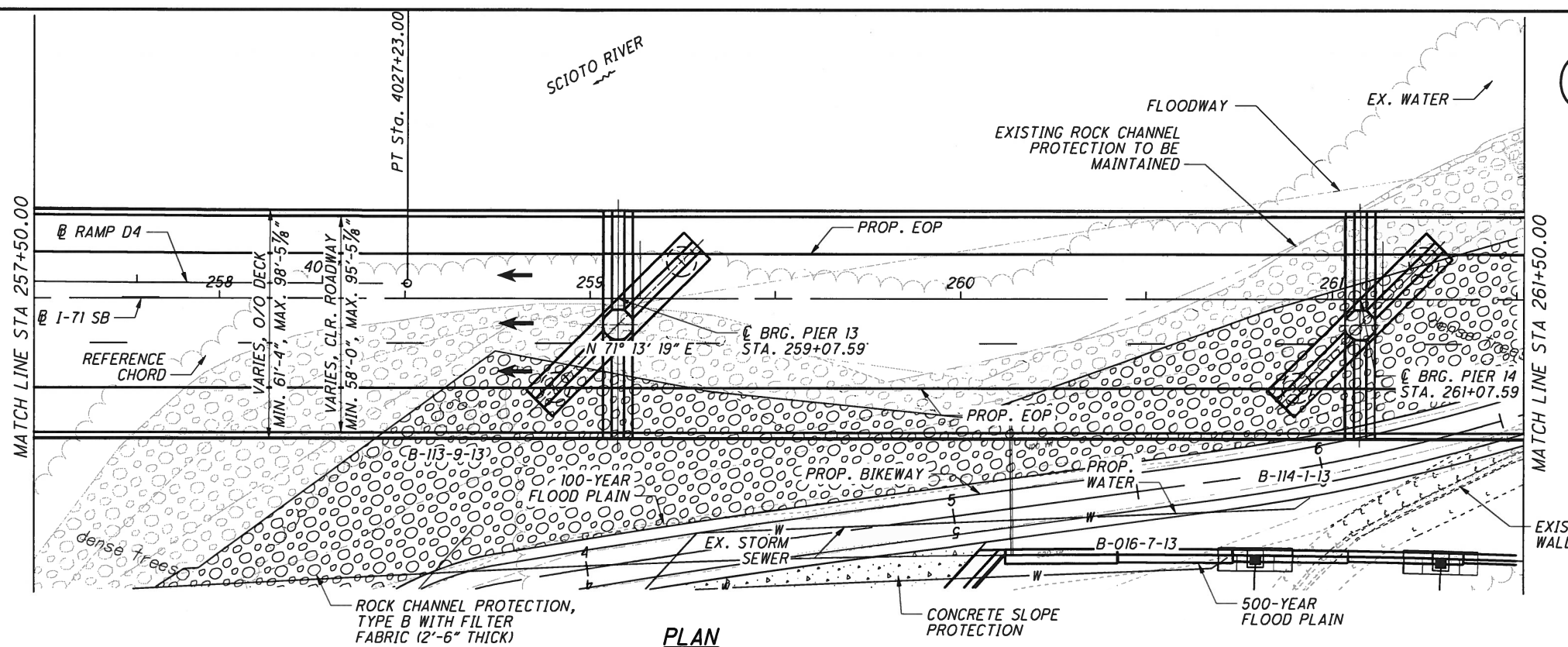
7 / 88

Ohio DOT Workspace
7071 East Interchange 6A
www.msconsultants.com

UCF: otda\vi
PGF: 60-06634_6A-Columbus

Batchplot Spec: \\0330share\160\06634_6A\standards\plotdrv\batchpl.plt
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Printed: 2/9/2015 2:53:54 PM By: pscchrist
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HORIZONTAL CURVE DATA I-71 S.B.

TANGENT T8

STA. = 252+49.55

STA. = 261+80.04

L = 930.49'

BRG. = N 70° 49' 44" E

P.V.I. STA 263+40.00 ELEV 794.81'

400.00' VC

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE: ---
REVIEWED: ---
STRUCTURE FILE NUMBER: 2510025

DRAWN: ---
REVIS: ---

DESIGNED: ---
CHECKED: ---

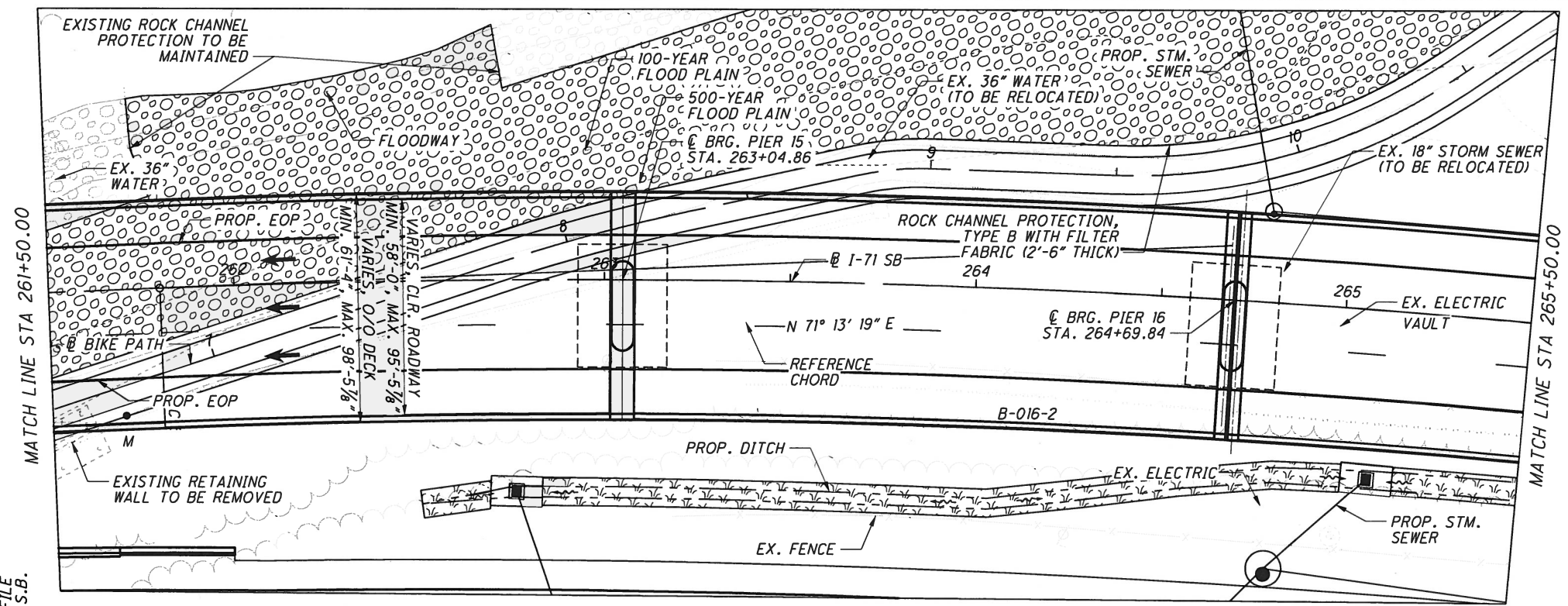
FRANKLIN COUNTY
STA. 230+85.84
STA. 277+66.09

SITE PLAN (8 OF 12)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

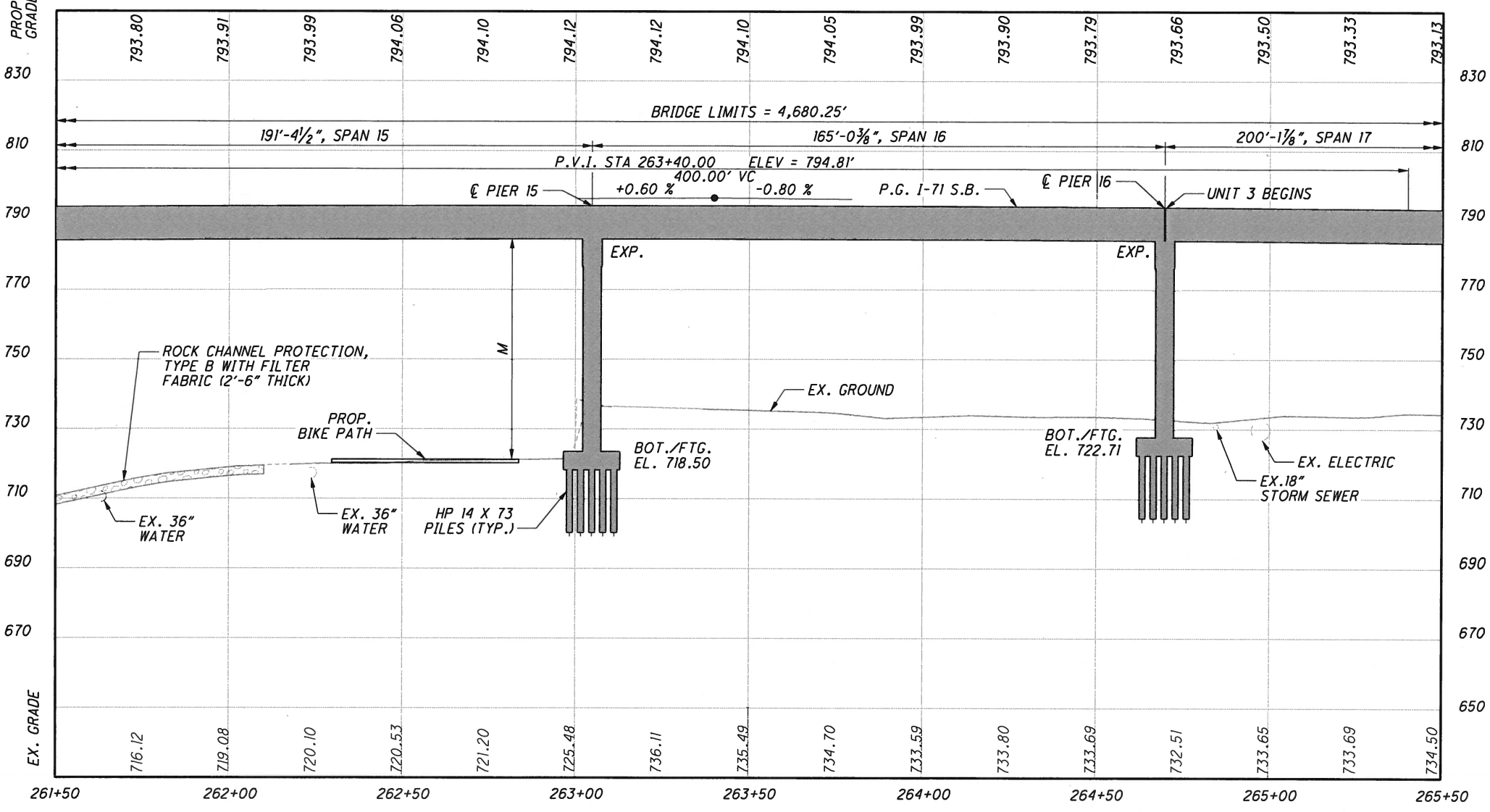
8 / 88

PLOT.CEL
 ms consultants, inc.
 www.msconsultants.com
 Ohio DOT Workspace
 70771 East Interchange 6A
 www.msconsultants.com
 UCF: ebid1V8;
 POF: 60-06634_6A-Columbus
 Batchplot Spec: \\0330share\60\06634_6A\standards\plotdrv\batchpln.spc
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 View: SHEET
 34" x 22"
 0.5"
 0 0.5 1



10'-0" MIN. REQUIRED VERTICAL CLEARANCE
 PT. M = 54.80' ACTUAL VERTICAL CLEARANCE

HORIZONTAL CURVE DATA I-71 S.B.



CURVE C11
 P.I. Sta. 269+71.54
 Δ = 30° 53' 23" (RT)
 Dc = 2° 00' 00"
 R = 2,864.79'
 T = 791.51'
 L = 1,544.48'
 E = 107.33'
 PC Sta. 261+80.04
 PT Sta. 277+24.52

DESIGN AGENCY
ms consultants, inc.
 2221 Schrock Road
 Columbus, Ohio 43229

DATE
 REVIEWED
 DRAWN
 DESIGNED

STRUCTURE FILE NUMBER
 2510025

REVISED
 CHECKED

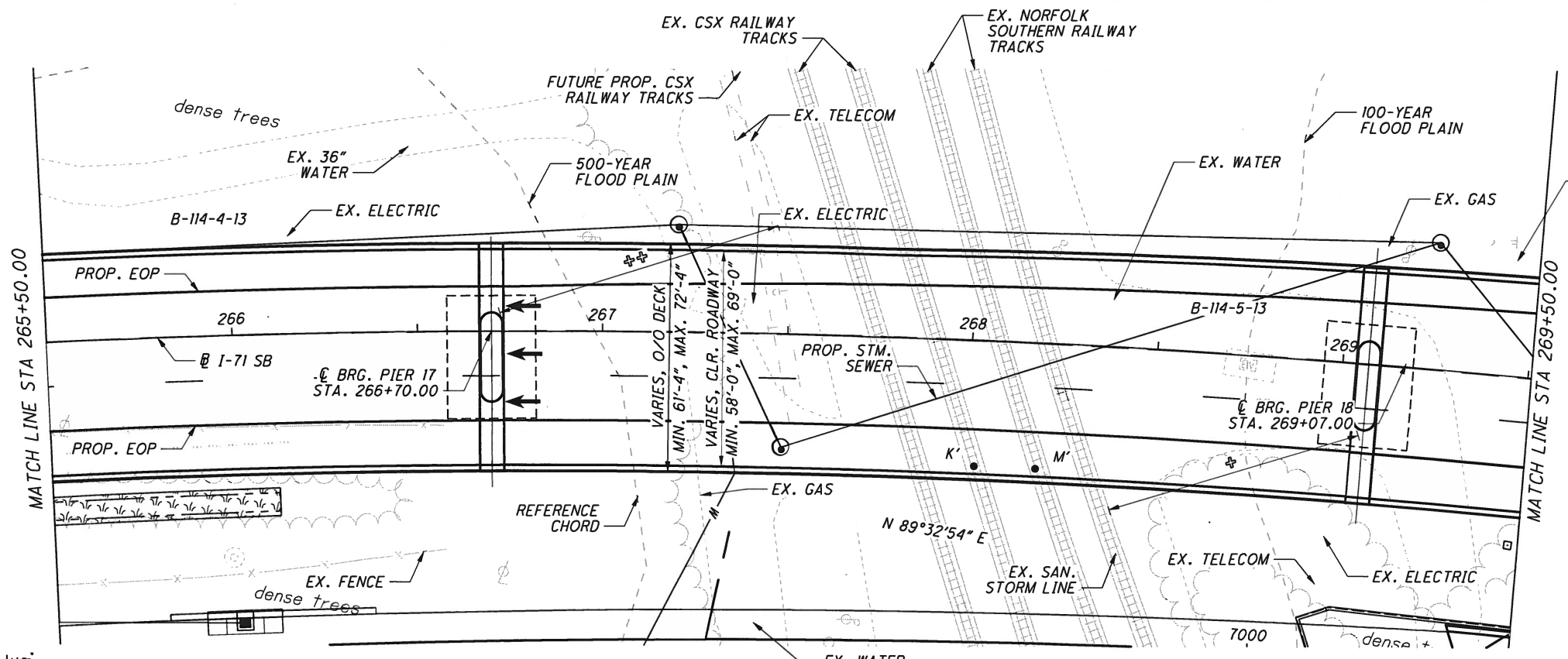
FRANKLIN COUNTY
 STA. 230+85.84
 STA. 277+66.09

SITE PLAN (9 OF 12)
 BRIDGE NO. FRA-71-1503L
 I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
 PID No. 89464

9 / 88

PLOT.CEL
 ms consultants, inc.
 www.msconsultants.com
 Ohio DOT Workspace
 70171 East Interchange 6A
 UCF: ohio171
 PCF: 60-06634_6A-Columbus
 www.msconsultants.com
 Batchplot Spec: \\0330share\060\06634_6A\standards\plotdrv\batchpl1.spc
 Pen Table: S:\std\plotting\ustrn\171\pen.tbl;ms_bridge.tbl
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 View SHEET
 2/9/2015 2:53:58 PM By: paschrist
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 3/4" x 22"

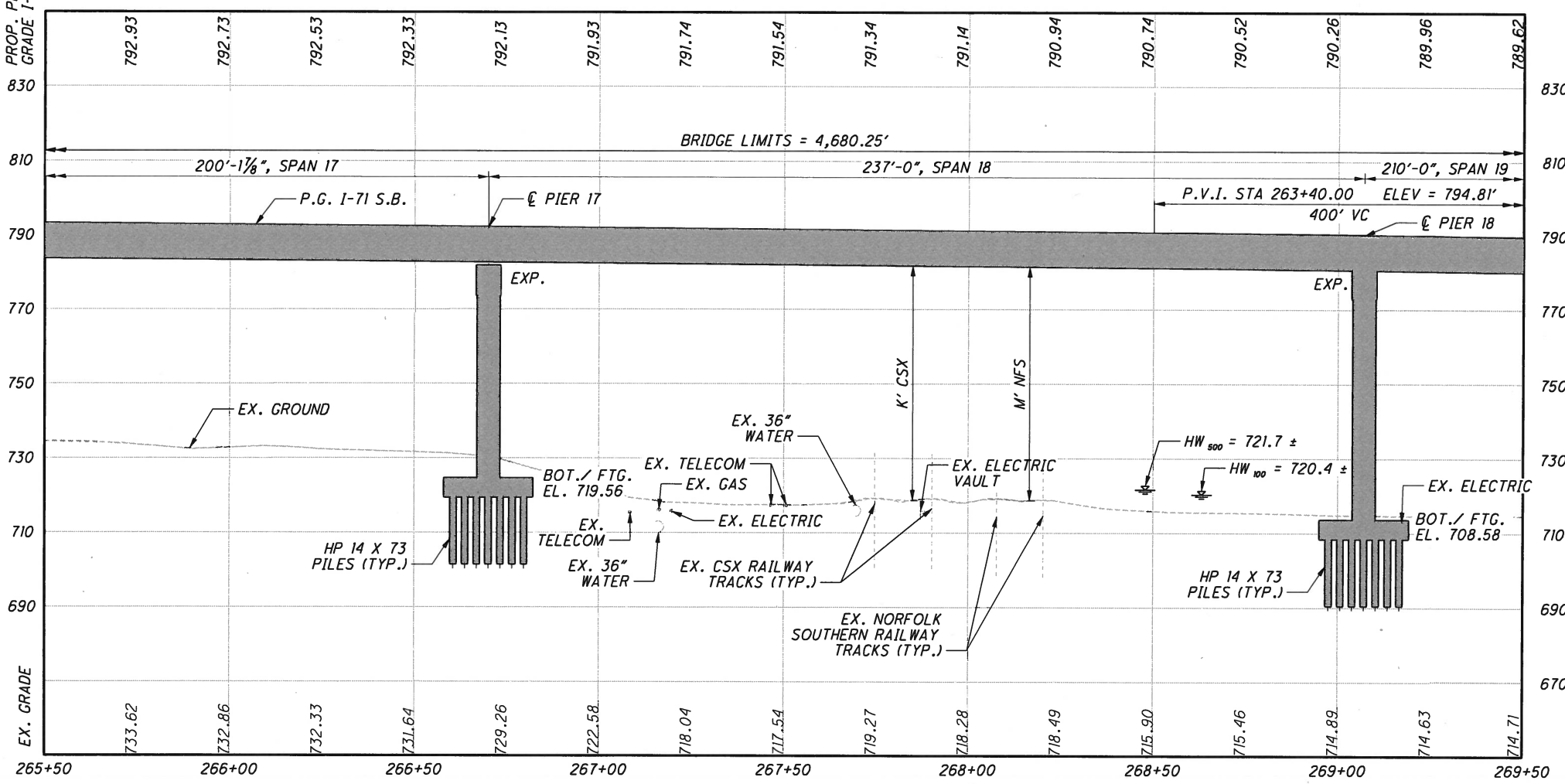


- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
- PT. K' = 61.07' ACTUAL VERTICAL CLEARANCE
- PT. M' = 60.94' ACTUAL VERTICAL CLEARANCE
- ⊕ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 70'-0" = ACTUAL HORIZONTAL CLEARANCE
- ⊕⊕ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 78'-7 1/16" = ACTUAL HORIZONTAL CLEARANCE

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C11

P.I. Sta. 269+71.54
 $\Delta = 30^\circ 53' 23''$ (RT)
 $D_c = 2^\circ 00' 00''$
 $R = 2,864.79'$
 $T = 791.51'$
 $L = 1,544.48'$
 $E = 107.33'$
 PC Sta. 261+80.04
 PT Sta. 277+24.52



DESIGN AGENCY
ms consultants, inc.
 2221 Schwack Road
 Columbus, Ohio 43229

DESIGNED	CHECKED	DRAWN	REVIEWED	DATE
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STRUCTURE FILE NUMBER
 2510025

FRANKLIN COUNTY
 STA. 230+85.84
 STA. 277+66.09

SITE PLAN (10 OF 12)
 BRIDGE NO. FRA-71-1503L
 I-71 SB OVER SCIOTO RIVER

FRA-70-13-10
 PID No. 89464

10 / 88

PLOT.CEL



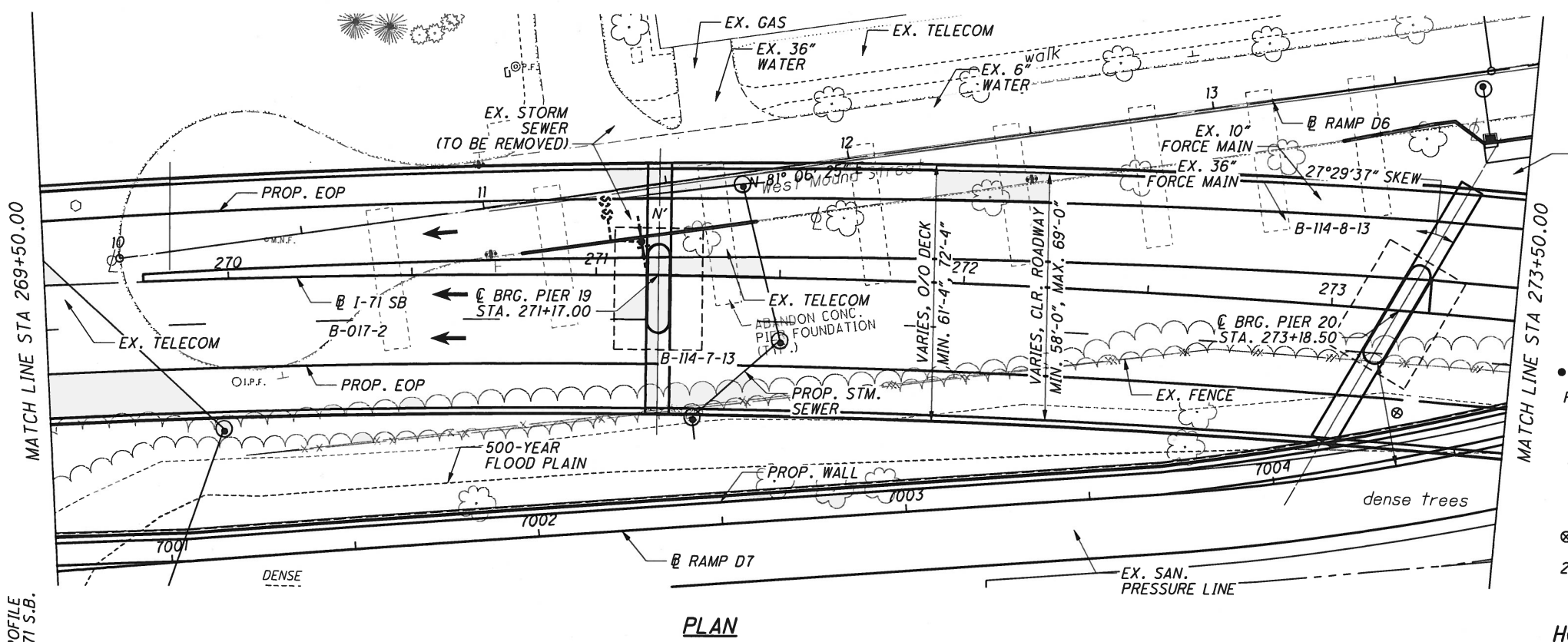
ms consultants, inc.
msconsultants.com

Ohio DOT Workspace
70171 East Interchange 6A
www.msconsultants.com

UCF: ohd01vbi
PCF: 60-06634_6A_Columbus

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Model: Sheet
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By: asengupta
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PLAN

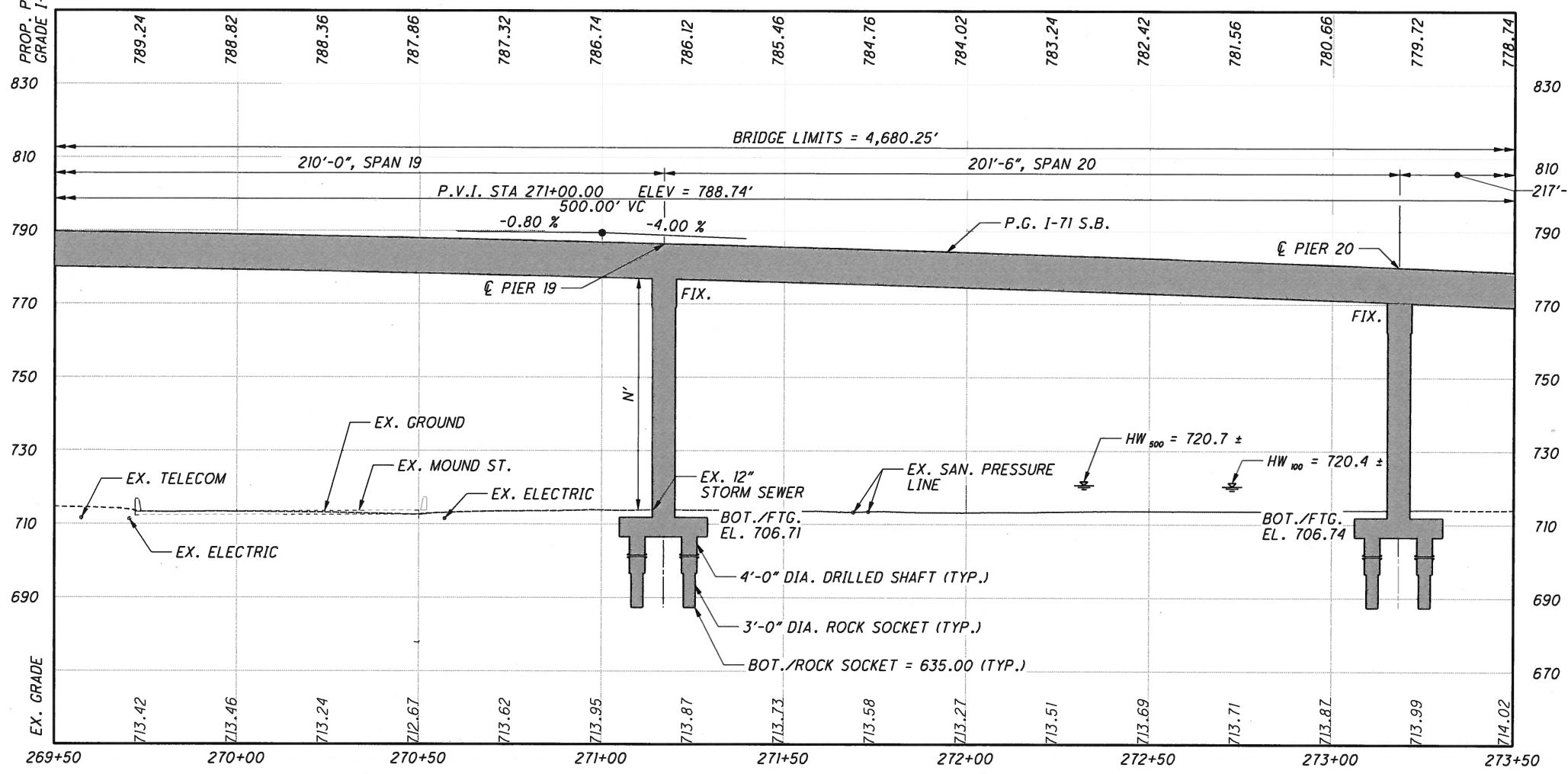


- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
PT N' = 49.59' ACTUAL VERTICAL CLEARANCE
- ⊗ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
28'-3 1/16" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- ⊗⊗ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
2'-9 3/8" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C11

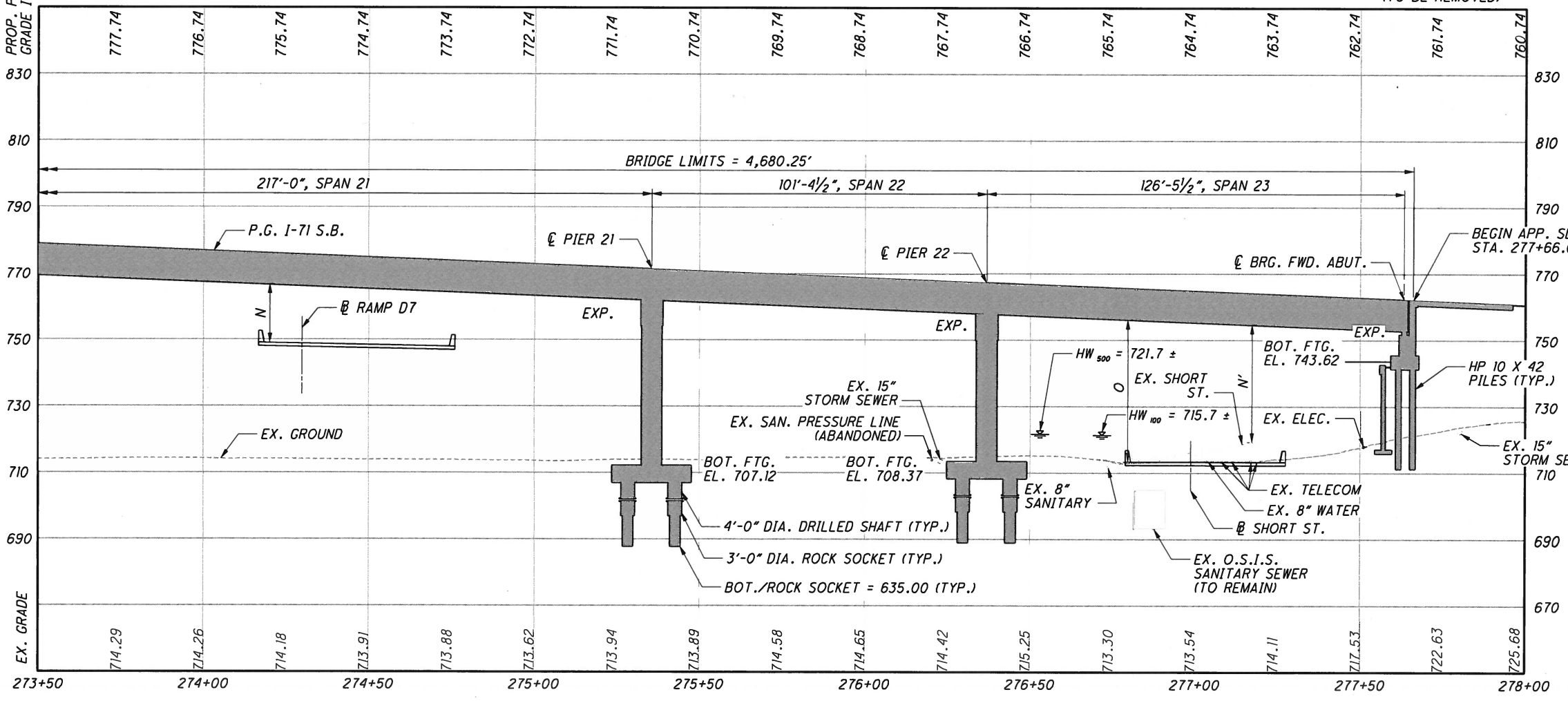
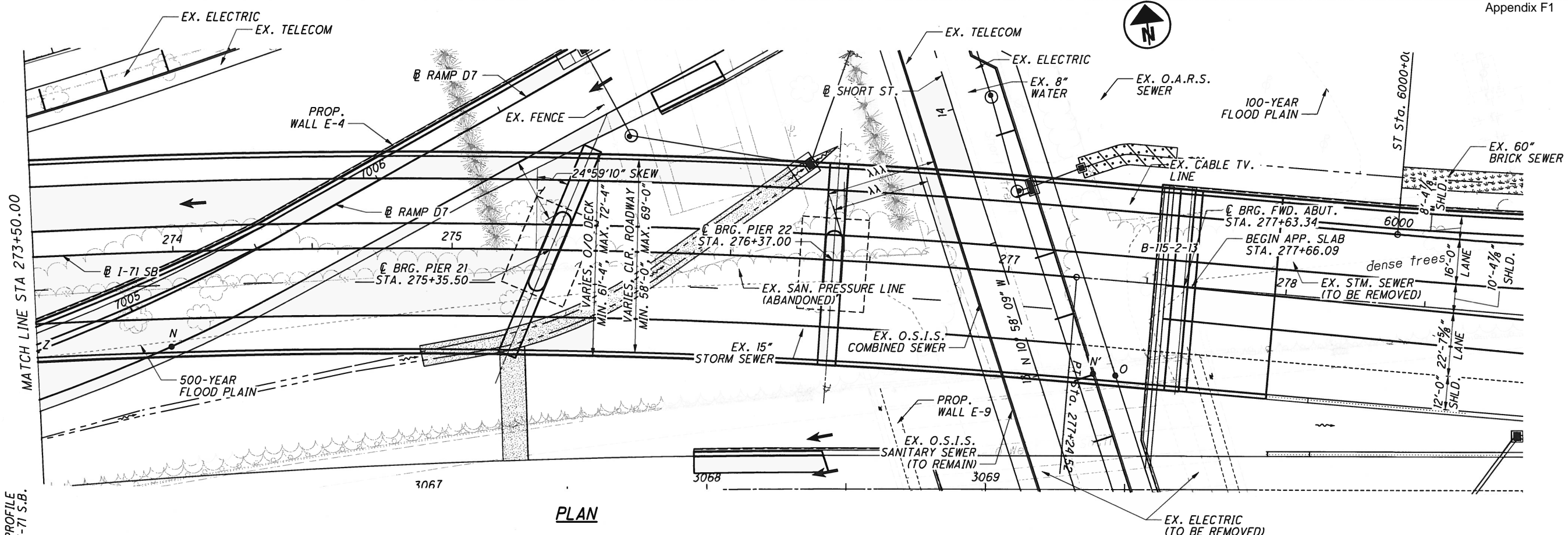
P.I. Sta. 269+71.54
Δ = 30° 53' 23" (RT)
Dc = 2° 00' 00"
R = 2,864.79'
T = 791.51'
L = 1,544.48'
E = 107.33'
PC Sta. 261+80.04
PT Sta. 277+24.52



BRIDGE PROFILE ALONG B I-71 S.B.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229
DATE --- REVIEWED --- DRAWN --- REVIS ---
STRUCTURE FILE NUMBER 2510025
DESIGNED --- CHECKED ---
FRANKLIN COUNTY STA. 230+85.84 STA. 277+66.09
SITE PLAN (11 OF 12) BRIDGE NO. FRA-71-1503L I-71 SB OVER SCIOTO RIVER
FRA-70-13.10 PID No. 89464
11 / 88

PLOT.CEL
 ms consultants, inc.
 msconsultants.com
 Ohio DOT Workspace
 70771 East Interchange 6A
 www.msconsultants.com
 UCF: elddiv8
 POF: 60-06634_6A_Columbus
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 2/9/2015 2:54:01 PM By: pscchrist
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 Model: Sheet
 34" x 22"



- 15'-6" MIN. REQUIRED VERTICAL CLEARANCE
- PT. N = 16.36' ACTUAL VERTICAL CLEARANCE
- PT. O = 39.81' ACTUAL VERTICAL CLEARANCE
- PT. N' = 39.72' ACTUAL VERTICAL CLEARANCE
- λ = 29'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 22'-10 1/16" = ACTUAL HORIZONTAL CLEARANCE (PROTECTED BY BARRIER)
- λλ = 17'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 34'-9 1/16" = ACTUAL HORIZONTAL CLEARANCE
- λλλ = 17'-0" REQUIRED MINIMUM HORIZONTAL CLEARANCE (BASED ON CLEAR ZONE)
- 39'-6 1/16" = ACTUAL HORIZONTAL CLEARANCE

HORIZONTAL CURVE DATA I-71 S.B.

CURVE C11	TANGENT T9
P.I. Sta. 269+71.54	STA. = 277+24.52
Δ = 30° 53' 23" (RT)	STA. = 281+19.67
Dc = 2° 00' 00"	L = 395.15'
R = 2,864.79'	BRG. = S 78° 16' 53" E
T = 791.51'	
L = 1,544.48'	
E = 107.33'	
PC Sta. 261+80.04	
PT Sta. 277+24.52	

BRIDGE PROFILE ALONG I-71 S.B.

DESIGN AGENCY
ms consultants, inc.
 2221 Schrock Road
 Columbus, Ohio 43229

DATE
 REVIEWED
 STRUCTURE FILE NUMBER
 2510025

DESIGNED
 CHECKED

FRANKLIN COUNTY
 STA. 230+85.84
 STA. 277+66.09

SITE PLAN (12 OF 12)
 BRIDGE NO. FRA-71-1503L
 I-71 SB OVER SCIOTO RIVER

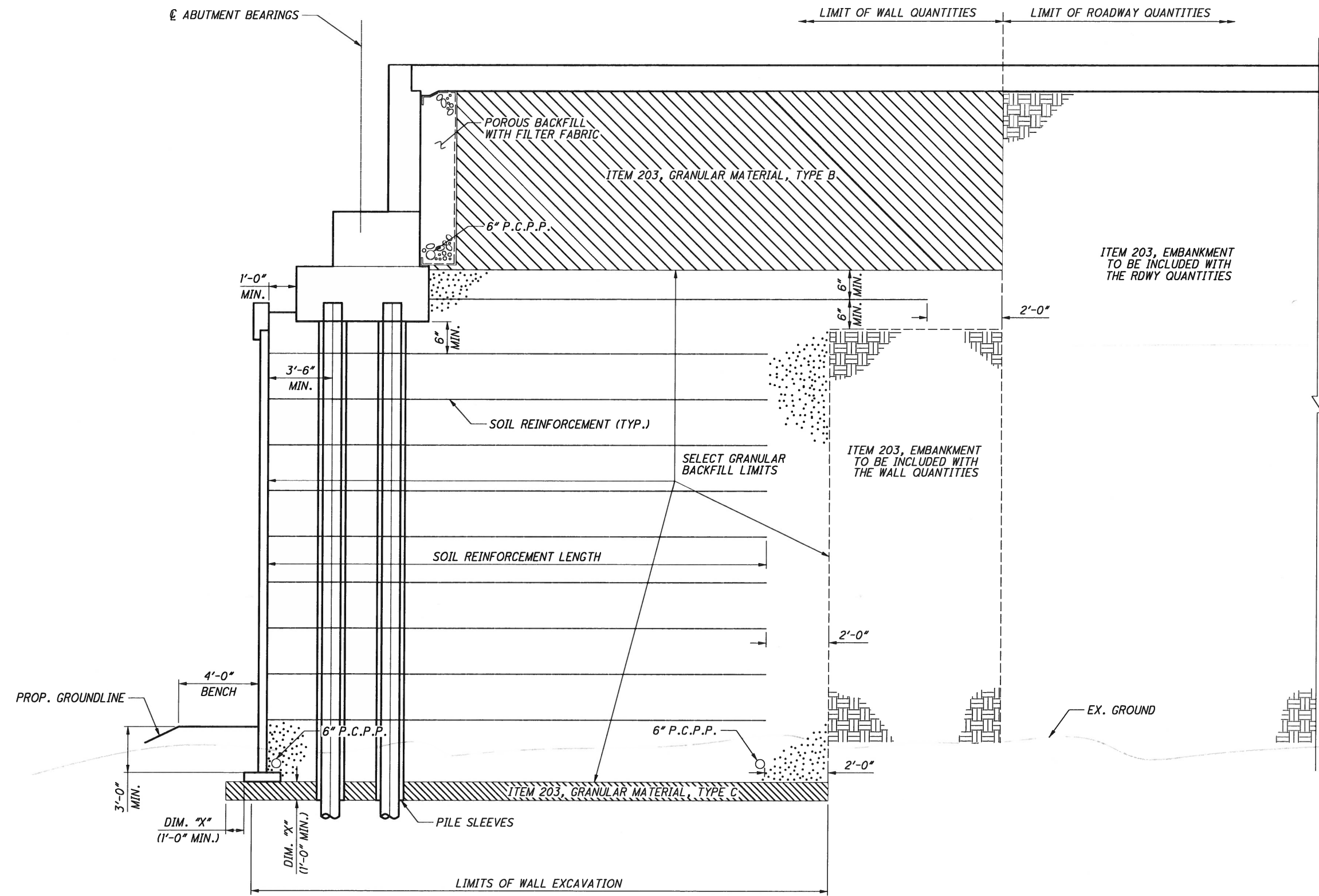
FRA-70-13.10
 PID No. 89464

12 / 88

Ohio DOT Workspace
70\71 East Interchange 6A
www.msconsultants.com

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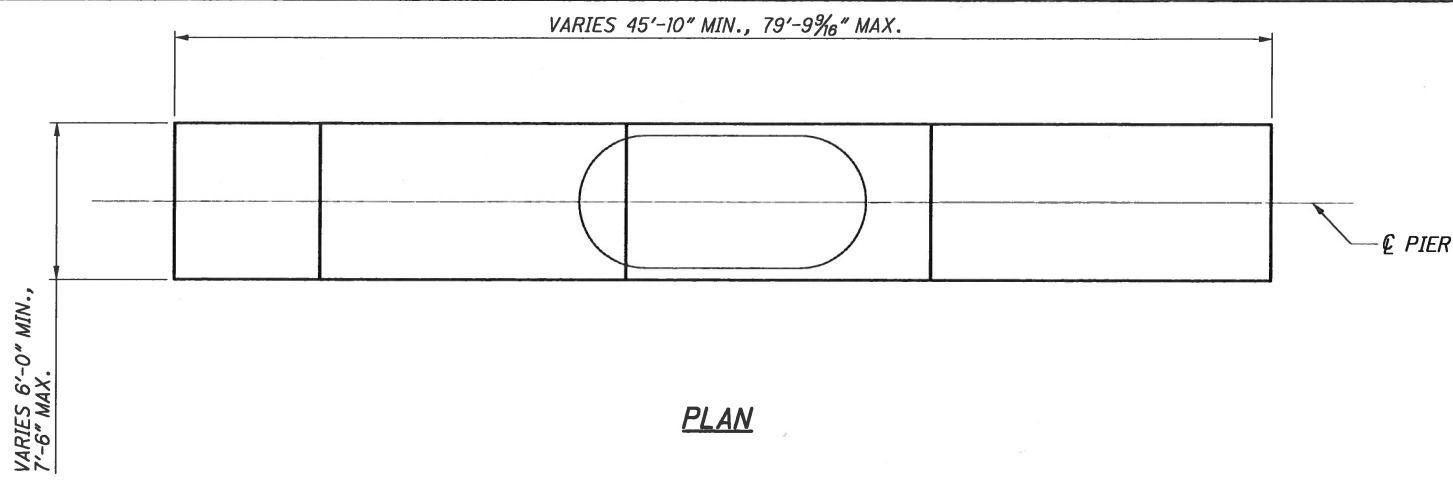
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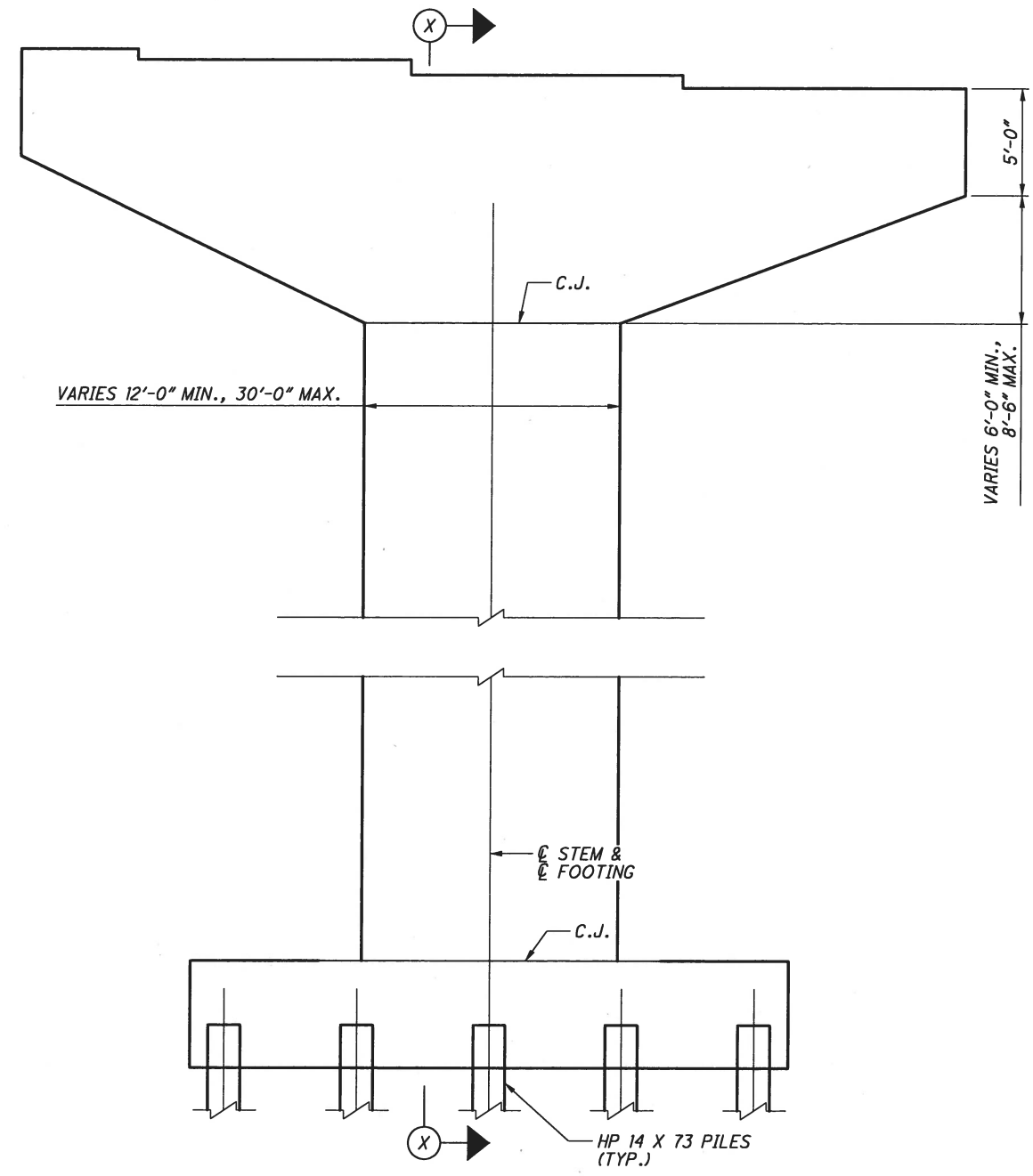
REAR AND FORWARD ABUTMENT SECTION
(ALL DIMENSIONS PERPENDICULAR TO MSE WALL)

DESIGNED ABD		DRAWN ABD		REVIEWED GLG		DATE 14-MAY		DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	
CHECKED AKS		REVISID		STRUCTURE FILE NUMBER		16 / 27		FRA-70-13.10 PID No. 89464	
<p>ABUTMENT SECTION BRIDGE NO. FRA-70-1503L I-71 SB OVER SCIOTO RIVER</p>									

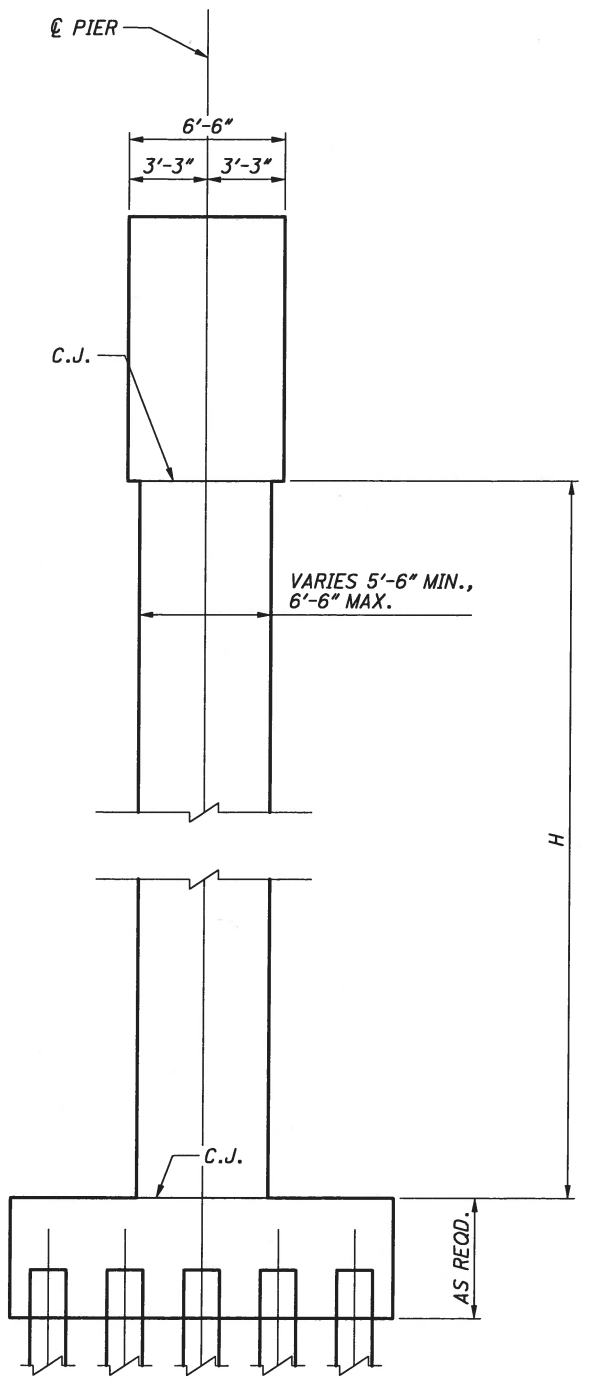
PLOT.CEL
 ms consultants, inc.
 www.msconsultants.com
 Ohio DOT Workspace
 70171 East Interchange 6A
 www.msconsultants.com
 UCF: ohaioVBI
 PCF: 60-06634_6A_Columbus
 Batchplot Spec: \\0333share\60\06634_6A\standards\plotdrv\batchplot.spc
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 By: cadallors
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 Model: Sheet
 3.4" x 22"



PLAN



TYP. PIER ELEVATION - PIERS 1 THRU 9, 15 THRU 22



SECTION X-X

FOOTING SIZE APPX. 28'-0" X 20'-0" WEST SPANS & 33'-0" X 24'-0" EAST SPANS

COLUMN DIMENSIONS	
PIER	H (FT)
1	33.35
2	50.33
3	61.50
4	63.23
5	62.41
6	55.52
7	45.18
8	44.55
9A	38.91
9B	39.74
15	35.43
16	36.55
17	41.33
18	51.60
19	49.61
20	41.01
21	32.59
22	29.06

NOTES

1. ALL EXPOSED SURFACES EXCEPT TOP OF PIER CAP SHALL BE SEALED WITH EPOXY-URETHANE SEALER.

DESIGN AGENCY
ms consultants, inc.
 2221 Schrock Road
 Columbus, Ohio 43229

DATE
 14-MGY

REVIEWED
 CLG

STRUCTURE FILE NUMBER

DRAWN
 ABD

DESIGNED
 ABD

CHECKED
 AKS

REVIS

EAST & WEST PIER PLAN AND ELEVATION
 BRIDGE NO. FRA-70-1503L
 I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
 PID No. 89464

17 / 27

PLOT.CEL



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6A_Columbus

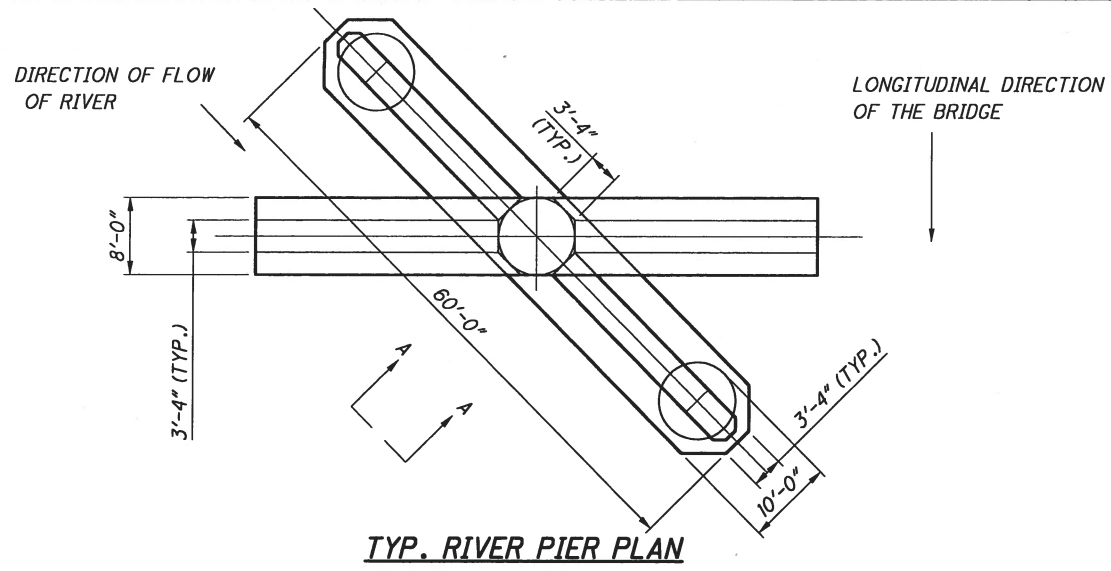
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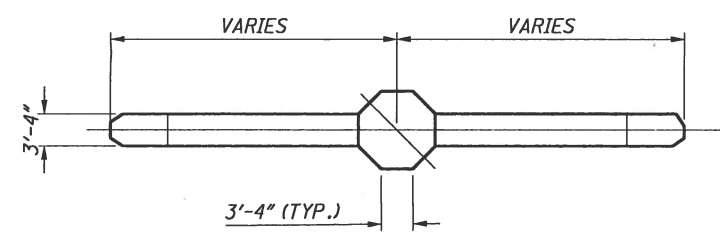
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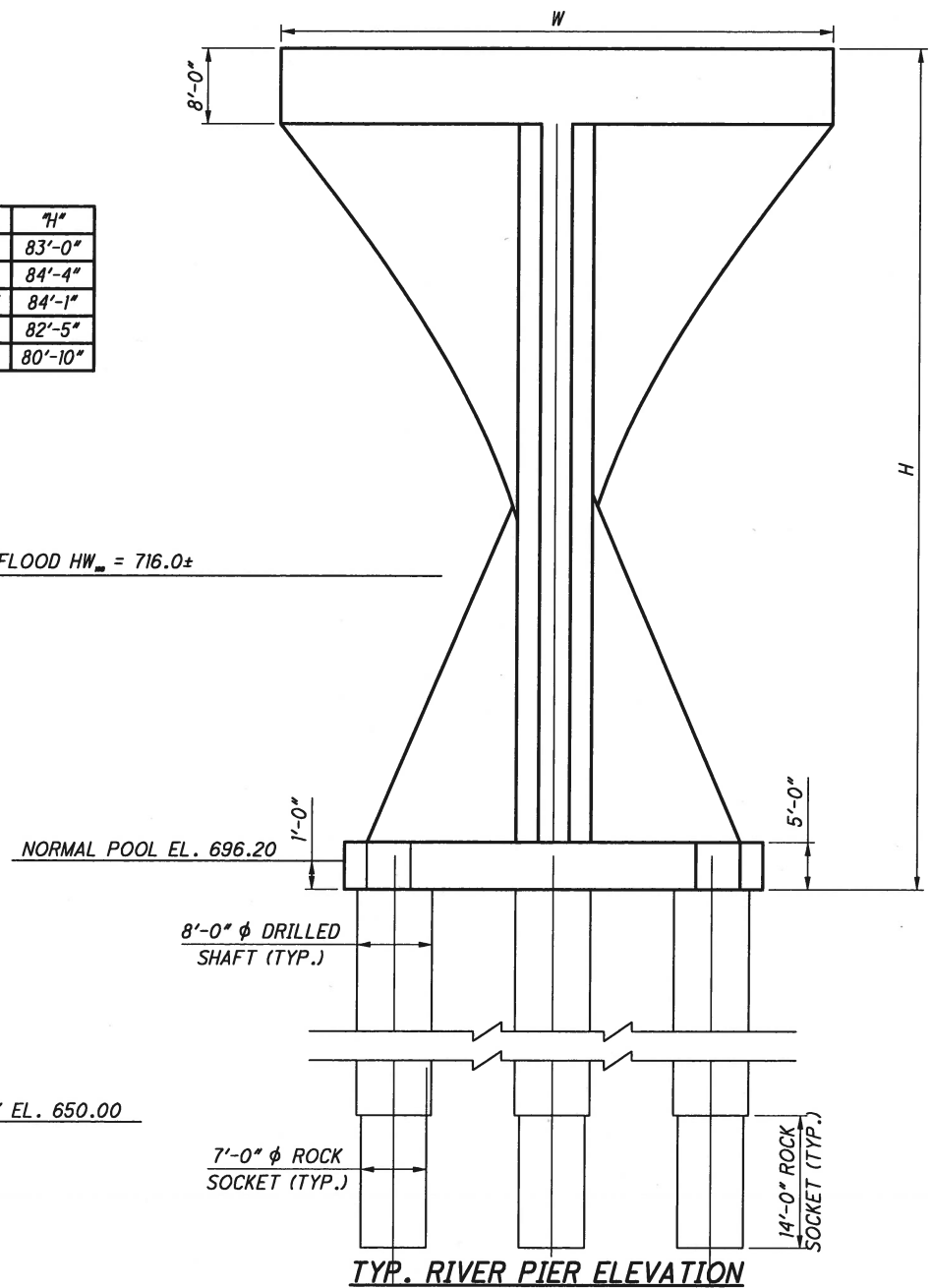
TYP. RIVER PIER PLAN



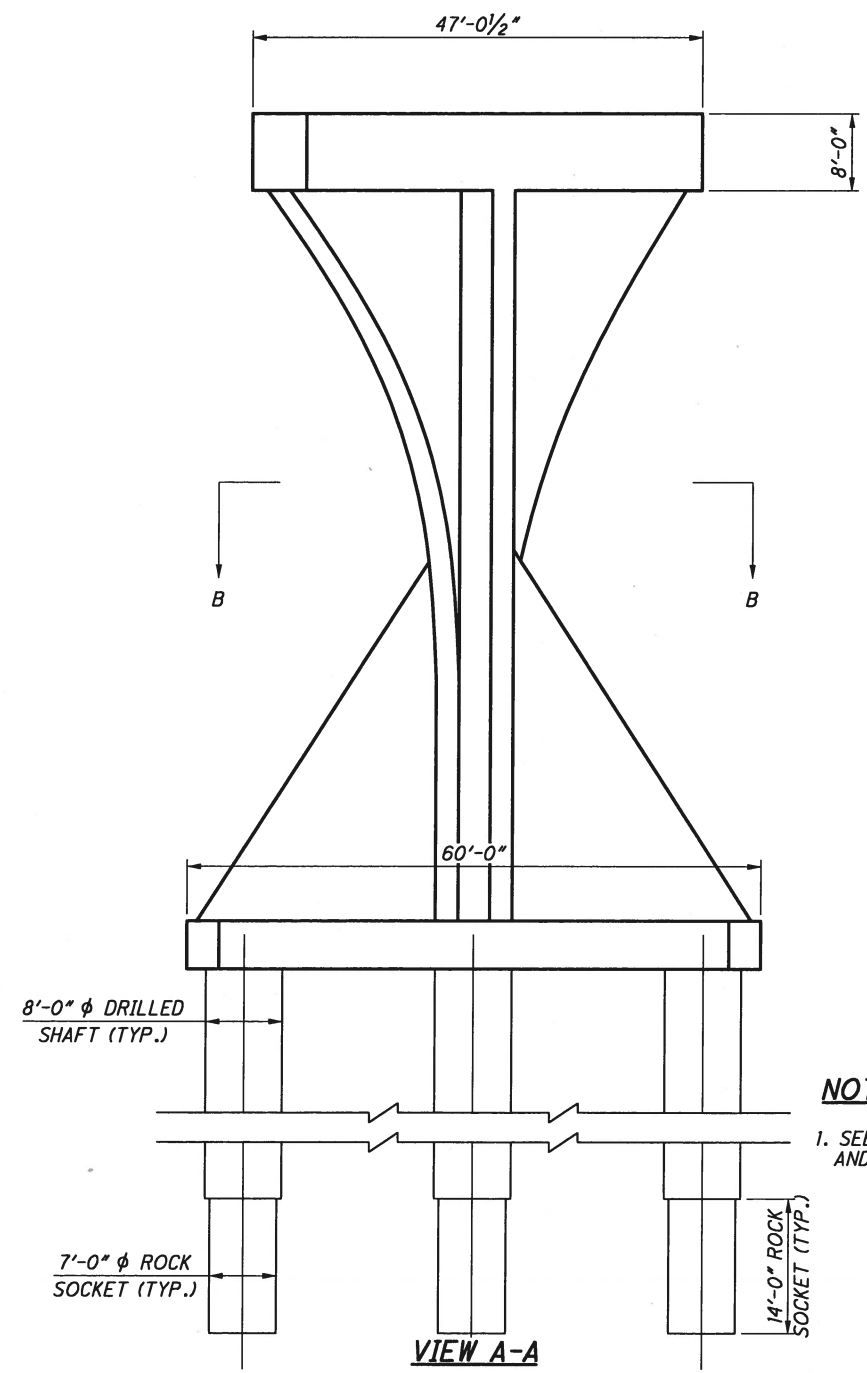
SECTION B-B

PIER	"W"	"H"
10	75'-8"	83'-0"
11	65'-0"	84'-4"
12	54'-10"	84'-1"
13	58'-9"	82'-5"
14	58'-9"	80'-10"

DESIGN FLOOD HW_m = 716.0±



TYP. RIVER PIER ELEVATION



VIEW A-A

NOTE:

1. SEE ALTERNATE 2 SHEETS FOR UNIT 1 AND UNIT 3 PIERS.

DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

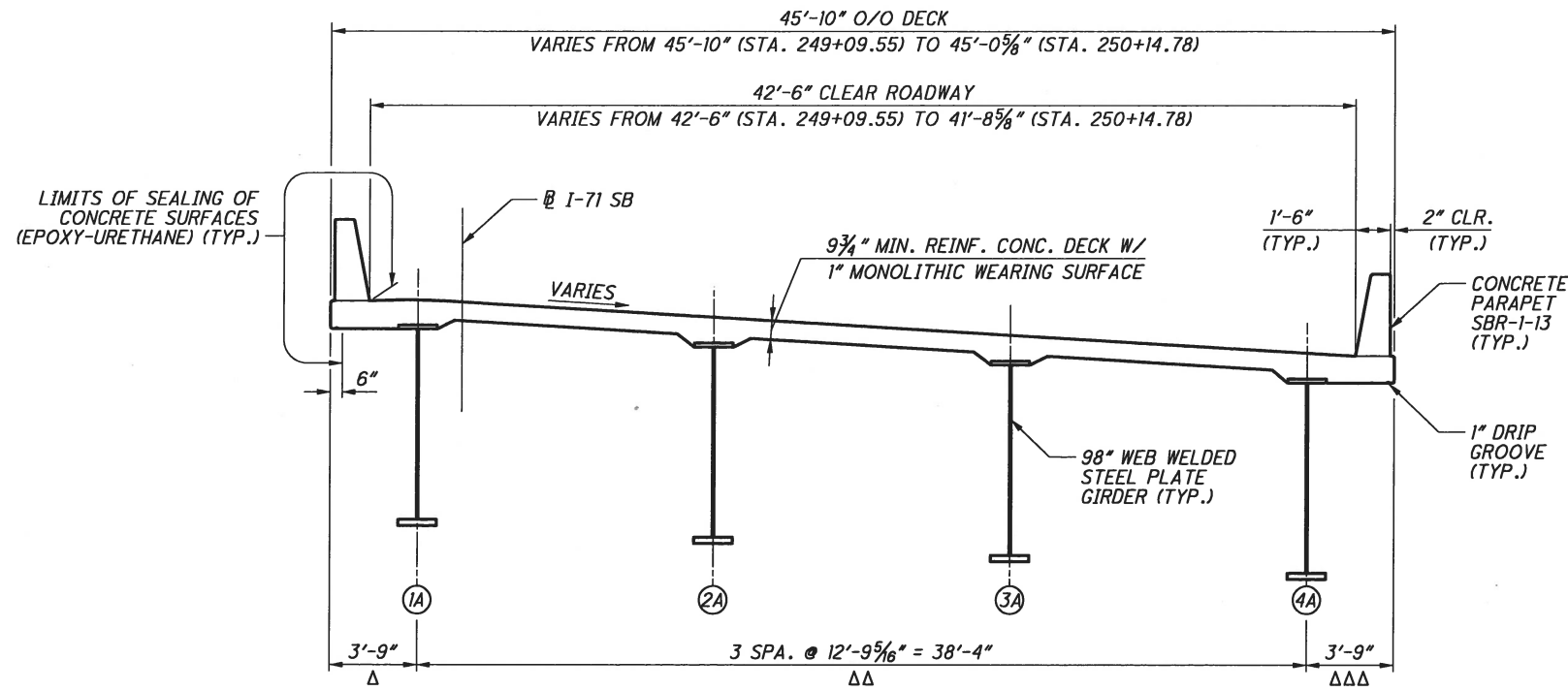
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REVIEWED: CLG
STRUCTURE FILE NUMBER
DRAWN: ABD
REVISOR
DESIGNED: ABD
CHECKED: AKS

RIVER PIER PLAN AND ELEVATION
BRIDGE NO. FRA-70-1503L
I-71 SB OVER SCIOTO RIVER

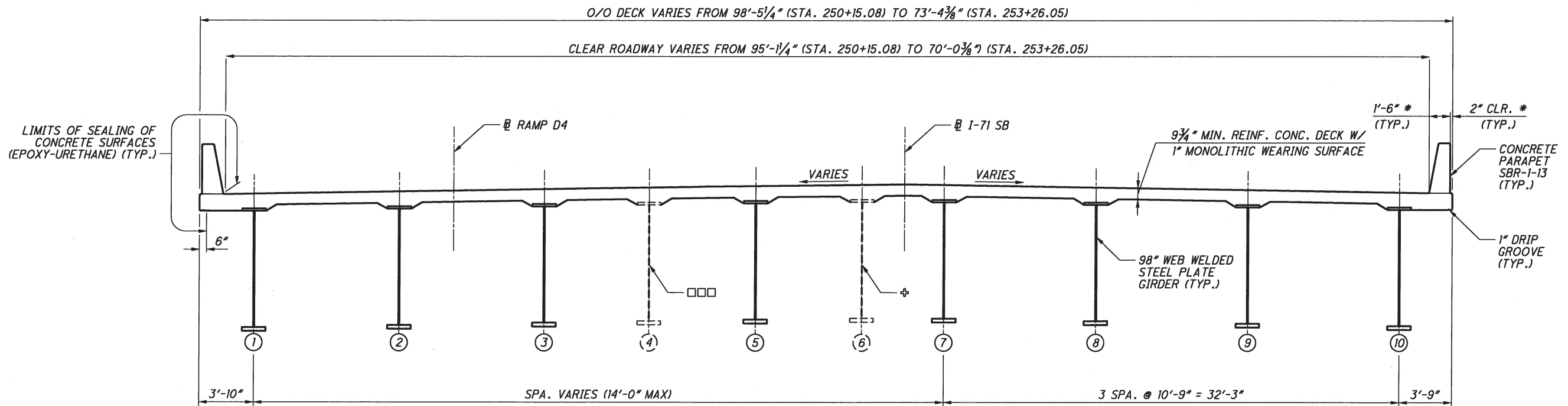
FRA-70-13.10
PID No. 89464

18 / 27





TRANSVERSE SECTION
STA. 230+88.59 TO STA. 250+15.08



TRANSVERSE SECTION
STA. 250+15.08 TO STA. 253+26.05

LEGEND

- ⊕ GIRDER DESIGNATION
- * DIMENSION TAKEN PERPENDICULAR TO EDGE OF DECK
- Δ VARIES FROM 4'-6 1/8" (STA. 230+88.59) TO 3'-9" (STA. 232+09.77)
- ΔΔ VARIES FROM 12'-9 5/16" (STA. 249+09.55) TO 12'-6 3/16" (STA. 250+14.78)
- ΔΔΔ VARIES FROM 2'-11 5/16" (STA. 230+88.59) TO 3'-9" (STA. 232+09.77)
- PARTIAL LENGTH GIRDER, STA. 250+19.65 TO STA. 251+15.81
- PARTIAL LENGTH GIRDER, STA. 250+14.79 TO STA. 252+16.88

NOTES

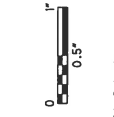
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2. FOR PAVEMENT SLOPES AND TRANSITIONS, SEE SHEETS 25/27 THRU 26/27.
3. FOR FRAMING LAYOUT, SEE SHEETS 19/27 THRU 21/27.

PLOT.CEL



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UCF: obdov8i
PCF: 60-06634_6A_Columbus

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DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DATE 14-May
REVIEWED GLG
DRAWN TGH
DESIGNED TGH
CHECKED AKS

TRANSVERSE SECTION (1 OF 3)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

22 / 27



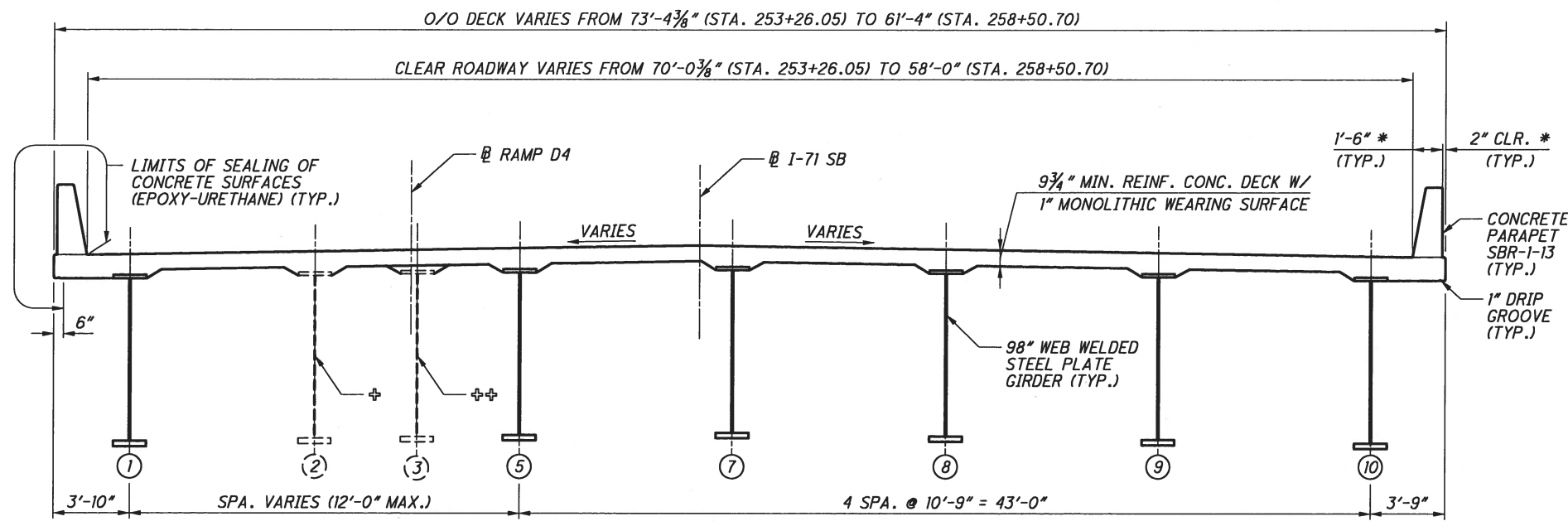
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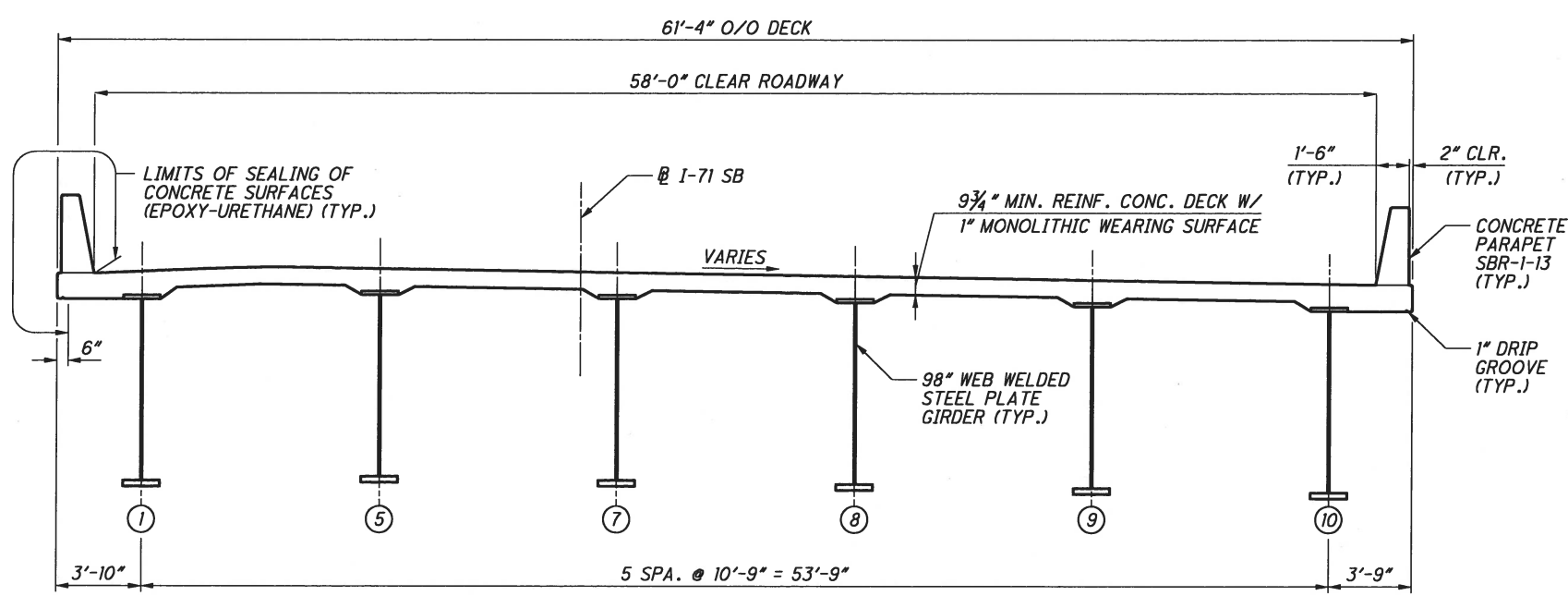
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3.4" x 22"



TRANSVERSE SECTION
STA. 253+26.05 TO STA. 258+50.70



TRANSVERSE SECTION
STA. 258+50.70 TO STA. 266+76.63

LEGEND

- ⊕ GIRDER DESIGNATION
- * DIMENSION TAKEN PERPENDICULAR TO EDGE OF DECK
- ⊕ PARTIAL LENGTH GIRDER, END AT STA. 256+81.57
- ⊕ PARTIAL LENGTH GIRDER, END AT STA. 253+43.70

NOTES

1. DIMENSION IS TAKEN PERPENDICULAR TO THE BASELINE UNLESS OTHERWISE NOTED.
2. FOR PAVEMENT SLOPES AND TRANSITIONS, SEE SHEETS 25/27 THRU 26/27.
3. FOR FRAMING LAYOUT, SEE SHEETS 19/27 THRU 21/27.

<p>FRA-70-13.10 PID No. 89464</p>	<p>TRANSVERSE SECTION (2 OF 3) BRIDGE NO. FRA-71-1503L I-71 SB OVER SCIOTO RIVER</p>	<p>DESIGNED TGH CHECKED AKS</p>	<p>DRAWN TGH REVISED</p>	<p>REVIEWED GLG STRUCTURE FILE NUMBER</p>	<p>DATE 14-MAY</p>	<p>DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229</p>
<p>23 / 27</p>						

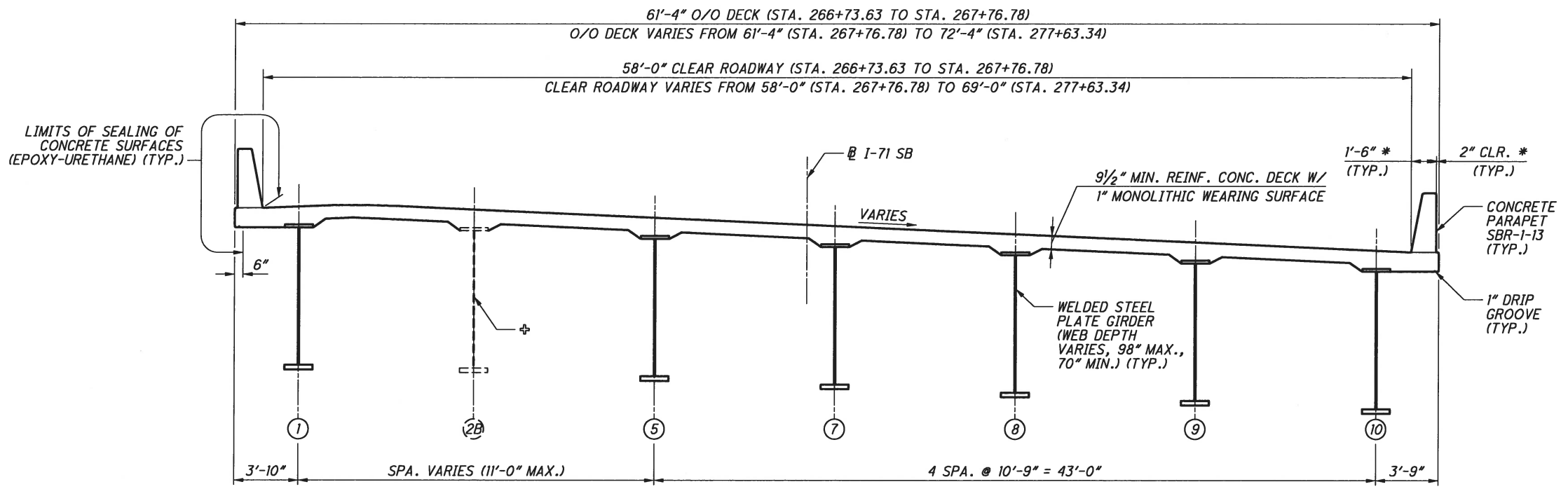


Ohio DOT Workspace
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PCF: 60-06634_6A.Columbus

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TRANSVERSE SECTION
STA. 266+76.63 TO STA. 277+63.34

LEGEND

- ⊛ GIRDER DESIGNATION
- * DIMENSION TAKEN PERPENDICULAR TO EDGE OF DECK
- ⊕ PARTIAL LENGTH GIRDER, STA. 268+80.96 TO STA. 277+63.34

NOTES

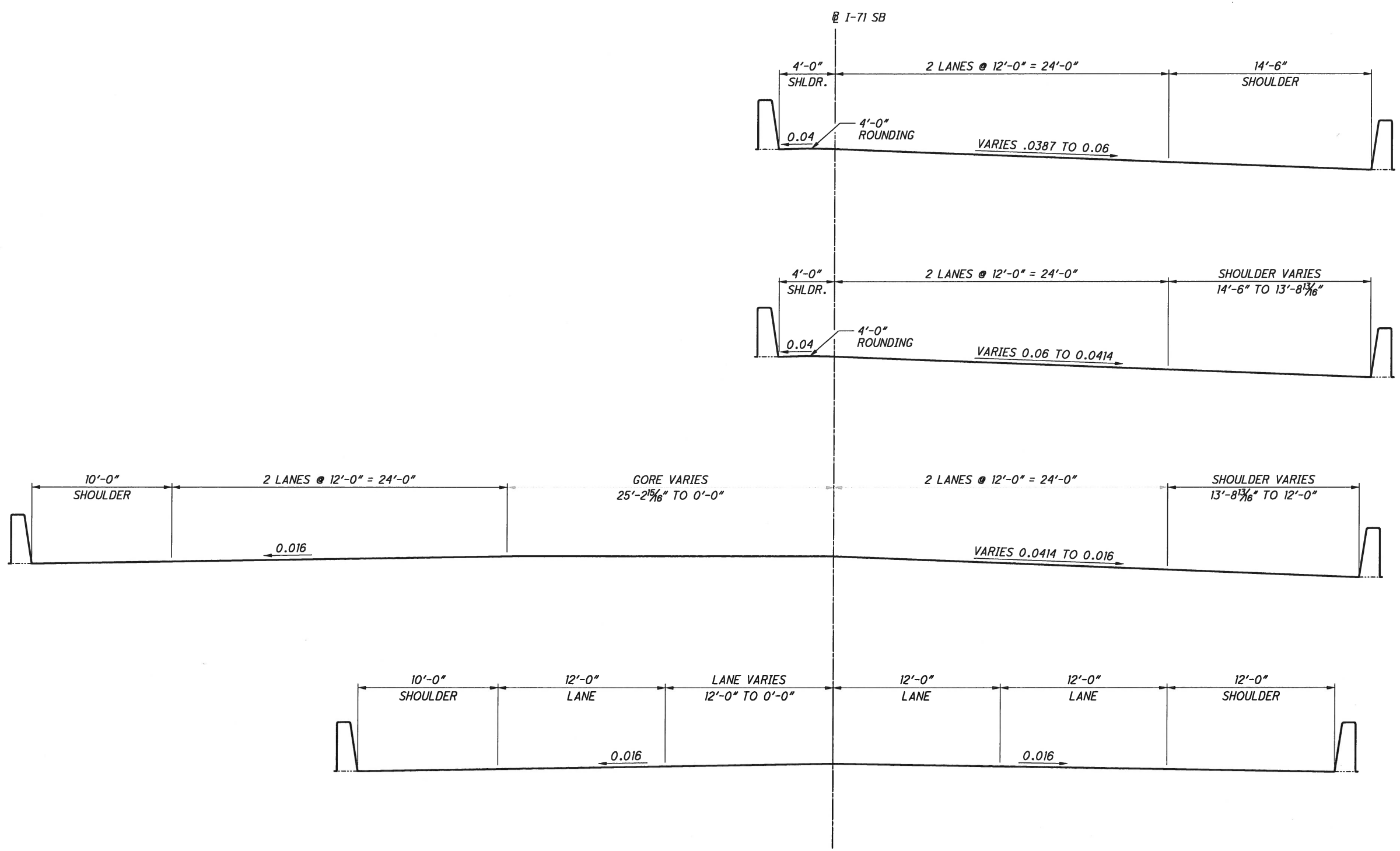
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2. FOR PAVEMENT SLOPES AND TRANSITIONS, SEE SHEETS 25/27 THRU 26/27.
3. FOR FRAMING LAYOUT, SEE SHEETS 19/27 THRU 21/27.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	
DATE 14-May	STRUCTURE FILE NUMBER
REVIEWED GLG	REVISED
DRAWN TGH	CHECKED AKS
TRANSVERSE SECTION (3 OF 3) BRIDGE NO. FRA-71-1503L I-71 SB OVER SCIOTO RIVER	
FRA-70-13.10 PID No. 89464	
24 / 27	

Ohio DOT Workspace
70171 East Interchange 6A
UICF: otdot/BI
PCF: 60-06634_6A_Columbus
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3.4" x 22"



STA. 230+88.59
TO
STA. 249+09.55

STA. 249+09.55
TO
STA. 250+15.08

STA. 250+15.08
TO
STA. 253+26.05

STA. 253+26.05
TO
STA. 258+96.63

NOTES

1. FOR ADDITIONAL NOTES AND INFORMATION, SEE SHEETS 22/27 THRU 24/27.

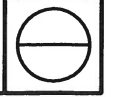
DESIGN AGENCY
ms consultants, inc.
2221 Schrock Road
Columbus, Ohio 43229

DESIGNED	TGH	CHECKED	AKS
DRAWN	TGH	REVISED	
REVIEWED	GLG	STRUCTURE FILE NUMBER	
DATE	14-May		

PAVEMENT TRANSITION SECTIONS (1 OF 2)
BRIDGE NO. FRA-71-1503L
I-71 SB OVER SCIOTO RIVER

FRA-70-13.10
PID No. 89464

25 / 27

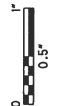


Ohio DOT Workpace
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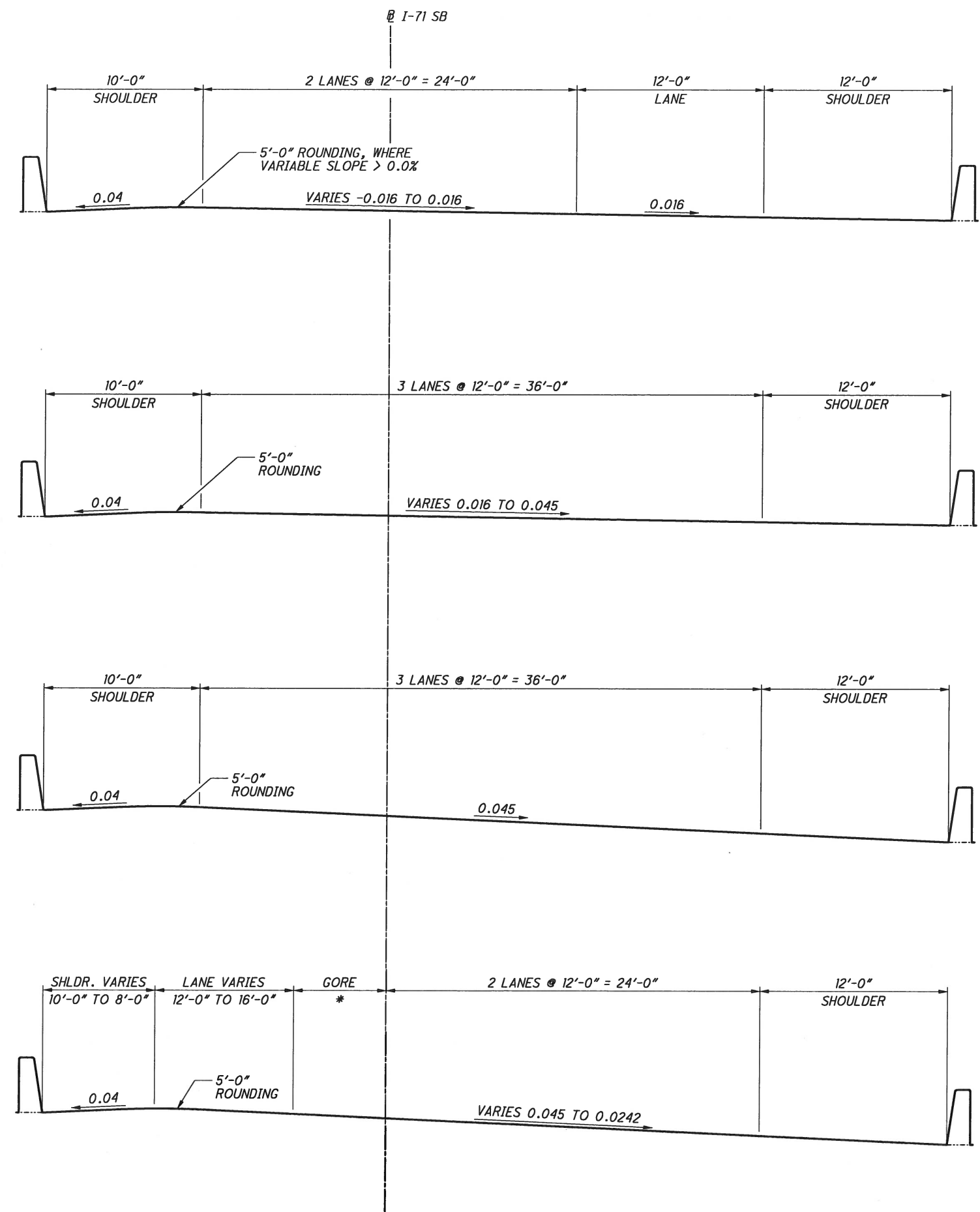
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34" x 22"



STA. 258+96.63
TO
STA. 260+67.13

STA. 260+67.13
TO
STA. 262+21.80

STA. 262+21.80
TO
STA. 267+52.59

STA. 267+52.59
TO
STA. 277+63.34

* VARIES 0'-0" TO 9'-0"

NOTES

1. FOR ADDITIONAL NOTES AND INFORMATION, SEE SHEETS 22/27 THRU 24/27.

DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229	
DATE 14-MAY	STRUCTURE FILE NUMBER
REVIEWED GLG	DRAWN TGH
DESIGNED TGH	CHECKED AKS
PAVEMENT TRANSITION SECTIONS (2 OF 2) BRIDGE NO. FRA-71-1503L I-71 SB OVER SCIOTO RIVER	
FRA-70-13.10 PID No. 89464	
26 / 27	