



2140 Herr Street
Harrisburg, PA 17103-5493

Final Construction Plan Submission to PUC SR 83 Section 07

March 30, 2023

Dauphin County
Swatara Township
Paxtang Borough
SR 3013 (29th Street)
DOT # 592186 Y
PUC No. 2020-3021129
ECMS # 97828

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
PO Box 3265
Harrisburg, PA 17105-3265

Dear Secretary Chiavetta,

In accordance with the ordering paragraph of PUC Docket No. A-2020-3021193 entered on 10/23/2020, please find attached for your approval a copy of the final signed Drawings for the Construction of State Route 83, Section 079 in Dauphin County). All of which includes: Construction Plan consisting of sheets 1, 18, 36, 37, 336, 351, 388, 389, 422, 435 of 435, a total of 10 sheets; Bridge 1 Plan S-39451 consisting of sheets 1 through 93 of 93 sheets, a total of 93 sheets; Signing and Pavement Marking Plan consisting of sheets 1, 91, 112 of 125, a total of 3 sheets; Traffic Control Plan consisting of sheets 1, 29, 32, 46, 57 of 85 sheets, a total of 5 sheets. Erosion and Sediment Pollution Control Plan consisting of sheets 43, 62, 83, 87, 92 of 95, a total of 5 sheets; Cross Sections consisting of sheets 1, 328 through 334 of 340 sheets, a total of 8 sheets.

The Department of Transportation hereby avers that a complete set of the aforesaid final Drawings for Construction plans are being sent to the following parties of record for examination simultaneously with this submission to the Public Utility Commission:

Mr. Douglas Starling, P.E.
Senior Engineer Public Improvement
Norfolk Southern Railroad Company
1200 Peachtree Street, N.E.
Atlanta, GA 30309
douglas.starling@nscorp.com

Ms. Julianne Freeman, Esq.
General Attorney
Norfolk Southern Railroad Company
Three Commercial Place
Norfolk, VA 23510-9241
Julianne.Freeman@nscorp.com



Mr. Mike Pries, Chairman
Dauphin County Commissioners
Dauphin County Administrative Building
2 South Second Street, 4th Floor
Harrisburg, PA 17108
mpries@dauphinc.org

Mr. Gerry Miller, Manager
Swatara Township Authority
599 Eisenhower Boulevard
PO Box 4920
Harrisburg, PA 17111
[gmiller@sta4920.com](mailto:gmilller@sta4920.com)

Mr. Rob Zimmer
Verizon Pennsylvania LLC.
Strawberry Square
11th Floor PA 15226
Harrisburg, PA 17101
Robert.zimmer@verizon.com

Mr. Mike Sweigard, Construction Specialist
Comcast Cable Communications, Inc.
4601 Smith Street
Harrisburg, PA 17109
mike_sweigard@cable.comcast.com

Mr. David Hayward
Sunseys, LLC
11 Grandview Circle
Suite 220
Canonsburg, PA 15317
DHayward@sunseys.com

Mr. Chris Ricciuti
Zayo Group
170 Robbins Road
Downington, PA 19335
Chris.Ricciuti@zayo.com

Mr. Jim Fosselman, Manager
Swatara Township
599 Eisenhower Boulevard
Harrisburg, PA 17111
jfosselman@swatara.com

Mr. Kelden Stambaugh, Manager
Paxtang Borough
3423 Derry Street
Harrisburg, PA 17111
Paxtangchief-manager@comcast.net

Mr. Rob Januszko
Commonwealth Tele. DBA Frontier
93 Old Berwick Road
Drums, PA 18222
RobertJanuszko@frontiercorp.com

Ms. Charlotte Krupa
PPL Electric Utilities Corporation
Two North Ninth Street, GENN3
Allentown, PA 18101-1179
cakrupa@pplweb.com

Mr. Scott Dreiling
XO/Verizon
630 Clark Avenue
King of Prussia 19406
Scott.dreiling@one.verizon.com



We respectfully request the approval of these plans and the subsequent issuance of a PUC Order. Should you have any questions or concerns, please feel free to contact me at (717) 787 – 4732

Sincerely,

A handwritten signature in black ink, appearing to read "Ahmed Laloudji". The signature is fluid and cursive, with a large initial "A" and a long, sweeping underline.

Ahmed Laloudji
Engineering District 8-0
Department of Transportation

Attachments

cc: Parties of Record
Mark J. Chappell, P.E Chief, Utilities and Right-of-Way Section, 7th Floor, CKB
Karen L. Cummings, Senior Assistant Chief Counsel, 9th Floor, CKB
Willian Sinick, P.E, Manager, Rail Safety Division, PUC, 3rd Floor, CKB

DISTRICT	COUNTY	TOWNSHIP	CITY	ROUTE	SECTION	TOTAL SHEETS
8-0	DAUPHIN	SWATARA	HARRISBURG	0083	079	435
		PAXTANG BOROUGH		0230	045	
				3007	020	
				3013	009	

ECMS NO. 97828

COMMONWEALTH OF PENNSYLVANIA



DEPARTMENT OF TRANSPORTATION

DRAWINGS

FOR

CONSTRUCTION

OF

STATE ROUTE 0083 SECTION 079

IN DAUPHIN COUNTY

FROM STA. 39+50.00 TO STA. 140+00.00 LENGTH 9,950.00 FT. 1.884 MI.

NB FROM SEG. 0424 OFFSET 0974 TO SEG. 0444 OFFSET 1432

SB FROM SEG. 0425 OFFSET 0974 TO SEG. 0445 OFFSET 1406

AND

STATE ROUTE 0230 SECTION 045

FROM STA. 7+02.06 TO STA. 46+24.39 LENGTH 3,831.97 FT. 0.726 MI.

FROM SEG. 0080 OFFSET 0000 TO SEG. 0050 OFFSET 1103

FROM SEG. 0081 OFFSET 0000 TO SEG. 0051 OFFSET 1115

STATE ROUTE 3007 SECTION 020

FROM STA. 90+62.41 TO STA. 112+58.40 LENGTH 2095.99 FT. 0.397 MI.

FROM SEG. 0040 OFFSET 1794 TO SEG. 0070 OFFSET 0978

STATE ROUTE 3013 SECTION 009

FROM STA. 29+91.55 TO STA. 44+88.28 LENGTH 1,444.60 FT. 0.274 MI.

FROM SEG. 0010 OFFSET 0000 TO SEG. 0030 OFFSET 0169

ALSO

STATE ROUTE 3009

FROM STA. 15+43.84 TO STA. 21+49.44

STATE ROUTE 3010

FROM STA. 21+49.44 TO STA. 107+79.54

STATE ROUTE 8017

STATE ROUTE 8021

STATE ROUTE 9402

STATE ROUTE 9403

LIMITS OF SIGNING

STATE ROUTE 0083 SECTION 079

FROM STA. 23+00.00 TO STA 131+63.70

ALSO INCLUDED

TRAFFIC CONTROL PLAN	85 SHEETS
SIGNING AND PAVEMENT MARKING PLAN	125 SHEETS
WATER UTILITY RELOCATION PLAN	27 SHEETS
SEWER UTILITY RELOCATION PLAN	17 SHEETS
UTILITY PLAN - RETIRED IN PLACE STEAM DEMOLITION	7 SHEETS
NATURAL GAS UTILITY RELOCATION PLAN	3 SHEETS
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	95 SHEETS
HIGHWAY LIGHTING PLAN	20 SHEETS
ITS PLAN	41 SHEETS
BORING LOCATION PLAN	3 SHEETS
TRAFFIC SIGNAL PLAN	46 SHEETS
POST-CONSTRUCTION STORM WATER MANAGEMENT PLAN	56 SHEETS

STRUCTURE PLANS	
S-39451	93 SHEETS
S-39452	70 SHEETS
S-39453	78 SHEETS
S-40308	3 SHEETS
S-40312	13 SHEETS
S-40313	13 SHEETS
S-40314	39 SHEETS
S-40315	16 SHEETS
S-40316	23 SHEETS
S-40317	12 SHEETS
S-40318	31 SHEETS
S-40319	40 SHEETS
CROSS SECTIONS	340 SHEETS

EXISTING STRUCTURE PLANS	
S-2384	6 SHEETS
S-2386	9 SHEETS
S-2387	6 SHEETS
S-7173	19 SHEETS
S-9870	10 SHEETS
S-12141	6 SHEETS
S-18035	3 SHEETS

SR 0083 RE-ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STATION 29+38.41 TO STATION 83+24.00
LEGISLATIVE ROUTE 767 SECTION A14 R/W(B)
APPROVED MARCH 4, 1994.

SR 0083 RE-ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STATION 47+87.56 TO STATION 122+24.83
STATE ROUTE 0083 SECTION 079 GR/W
APPROVED OCTOBER 4, 2022.

SR 0083 RE-ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STATION 48+10.62 TO STATION 131+30.00
STATE ROUTE 0083 SECTION A79 R/W
APPROVED JULY 12, 2022.

SR 0083 ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STATION 83+64.88 TO STATION 197+67.89
LEGISLATIVE ROUTE 767 PARALLEL, SECTION 3
APPROVED JULY 24, 1952.

PREPARED BY: HNTB CORPORATION 4507 NORTH FRONT STREET SUITE 300 HARRISBURG, PA 17110 <i>Joachim J. Alfieri</i> PROFESSIONAL ENGINEER DATE: March 28, 2023	RECOMMENDED DATE: _____ _____ PROJECT MANAGER RECOMMENDED DATE: _____ _____ DISTRICT EXECUTIVE RECOMMENDED DATE: _____ _____ DEPUTY SECRETARY RECOMMENDED DATE: _____ _____ ACTING SECRETARY OF TRANSPORTATION (ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)
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SCALE	
HORIZONTAL	0 25 50 FEET
VERTICAL	0 5 10 FEET
DESIGN DESIGNATION	
HIGHWAY CLASSIFICATION - URBAN INTERSTATE	CURRENT A.D.T. - 135,569 (2022)
DESIGN SPEED - 60 MPH	DESIGN YEAR A.D.T. - 168,210 (2050)
PAVEMENT WIDTH - 3 TO 4 - 12' LANES	D.H.V. - 13,677 (2050)
SHOULDER WIDTH - VARIES 10' TO 14'	D - 55%
	T - 16%

TRAFFIC DATA

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	18 OF 435
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH				
REVISION NUMBER	REVISIONS			DATE BY

TABULATION OF STRUCTURE DATA

EXISTING

EXISTING STRUCTURE DATA

SR 0083 OVER ABANDONED RAILROAD SIDING
STATION: 121+10.50
TYPE OF STRUCTURE: 3-SPAN ROLLED STEEL I-BEAM
SPAN LENGTHS:
SPAN 1 = 60'-0"
SPAN 2 = 60'-0"
SPAN 3 = 60'-0"
VERTICAL CLEAR: N/A
SKEW: 50°57'00"
CLEAR ROADWAY WIDTH:
NORTHBOUND = 33'-0"
SOUTHBOUND = 33'-0"
STRUCTURE NO: S-2386 & S-18035 (REHAB)

EXISTING STRUCTURE DATA

SR 3013 (29TH STREET) OVER SR 0083
STATION: 8+25.96
TYPE OF STRUCTURE: REINFORCED CONCRETE RIGID FRAME
SPAN LENGTH: 68'-7"
VERTICAL CLEAR: 14'-0"
SKEW: 87°10'00"
CLEAR ROADWAY WIDTH: 40'-0"
STRUCTURE NO: S-2387

EXISTING STRUCTURE DATA

SR 3013 (29TH STREET) OVER NORFOLK SOUTHERN RAILWAY COMPANY
STATION: 9+52.41
TYPE OF STRUCTURE: 2-SPAN P/S CONCRETE ADJACENT BOX BEAM
SPAN LENGTHS:
SPAN 1: 59'-3"
SPAN 2: 37'-0"
VERTICAL CLEAR: 21'-11"
SKEW: 84°55'00"
CLEAR ROADWAY WIDTH: 40'-0"
STRUCTURE NO: S-9870

EXISTING STRUCTURE DATA

SR 3007 (19TH STREET) OVER NORFOLK SOUTHERN RAILWAY COMPANY
STATION: 103+34.04
TYPE OF STRUCTURE: 2-SPAN P/S CONCRETE I-BEAM
SPAN LENGTHS:
SPAN 1: 65'-0"
SPAN 2: 33'-9"
VERTICAL CLEAR:
NS INDUSTRY TRACK = 19'-2"
NS MAINLINE TRACK = 27'-4"
SKEW: 74°53'22"
CLEAR ROADWAY WIDTH: 46'-0"
STRUCTURE NO: S-7173

EXISTING STRUCTURE DATA

SR 3007 (19TH STREET) OVER SR 0083
STATION: 101+31.64
TYPE OF STRUCTURE: REINFORCED CONCRETE RIGID FRAME
SPAN LENGTH: 69'-0 1/2"
VERTICAL CLEAR: 14'-3"
SKEW: 81°48'15"
CLEAR ROADWAY WIDTH: 46'-0"
STRUCTURE NO: S-2384

PROPOSED

PROPOSED STRUCTURE DATA

SR 3013 (29TH STREET) OVER SR 0083 AND NORFOLK SOUTHERN RAILWAY COMPANY
STATION: 37+78.24
TYPE OF STRUCTURE: 3-SPAN P/S CONCRETE PA BULB-TEE BEAM
SPAN LENGTHS:
SPAN 1 = 95'-0"
SPAN 2 = 100'-0"
SPAN 3 = 97'-0"
VERTICAL CLEAR:
SR 0083 = 20'-7"
NS MAINLINE TRACK = 23'-3"
SKEW: 87°25'29"
CLEAR ROADWAY WIDTH: 32'-0"
STRUCTURE NO: S-39451

PROPOSED STRUCTURE DATA

SR 3007 (19TH STREET) OVER NORFOLK SOUTHERN RAILWAY COMPANY
STATION: 103+30.88
TYPE OF STRUCTURE: 1-SPAN P/S CONCRETE PA BULB-TEE BEAM
SPAN LENGTH: 115'-0"
VERTICAL CLEAR:
NS INDUSTRY TRACK = 19'-4"
NS MAINLINE TRACK = 30'-6"
SKEW: 75°00'00"
CLEAR ROADWAY WIDTH: 56'-0"
STRUCTURE NO: S-39452

PROPOSED STRUCTURE DATA

SR 3007 (19TH STREET) OVER SR 0083 AND SR 8019 (RAMP T)
STATION: 100+84.74
TYPE OF STRUCTURE: 2-SPAN P/S CONCRETE PA BULB-TEE BEAM
SPAN LENGTHS:
SPAN 1 = 105'-0"
SPAN 2 = 108'-0"
VERTICAL CLEAR:
SR 0083 = 16'-9"
SR 8019 (RAMP T) = 21'-1"
SKEW: 80°59'10"
CLEAR ROADWAY WIDTH: 56'-0"
STRUCTURE NO: S-39453

STATION 104+18.94 TO 104+90.69 SR 3007
TYPE OF STRUCTURE: REINFORCED CONCRETE RETAINING WALL
STRUCTURE NO: S-40312

STATION 83+72.04 TO 85+41.03 SR 0083
TYPE OF STRUCTURE: SOLDIER PILE RETAINING WALL
STRUCTURE NO: S-40313

STATION 950+35.07 TO 955+86.86 SR 8021 RAMP V
TYPE OF STRUCTURE: REINFORCED CONCRETE AND SOLDIER PILE RETAINING WALL
STRUCTURE NO: S-40314

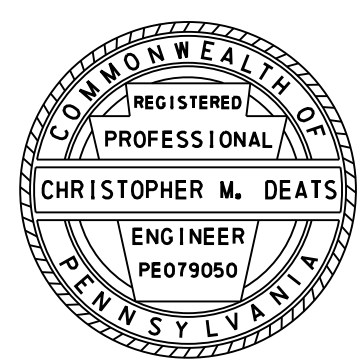
STATION 90+98.30 TO 97+00.00 SR 0083
TYPE OF STRUCTURE: GROUND MOUNTED SOUND BARRIER
STRUCTURE NO: S-40315

STATION 953+71.11 TO 957+15.32 SR 8021 RAMP V
TYPE OF STRUCTURE: SOLDIER PILE RETAINING WALL WITH SOUND BARRIER
STRUCTURE NO: S-40316

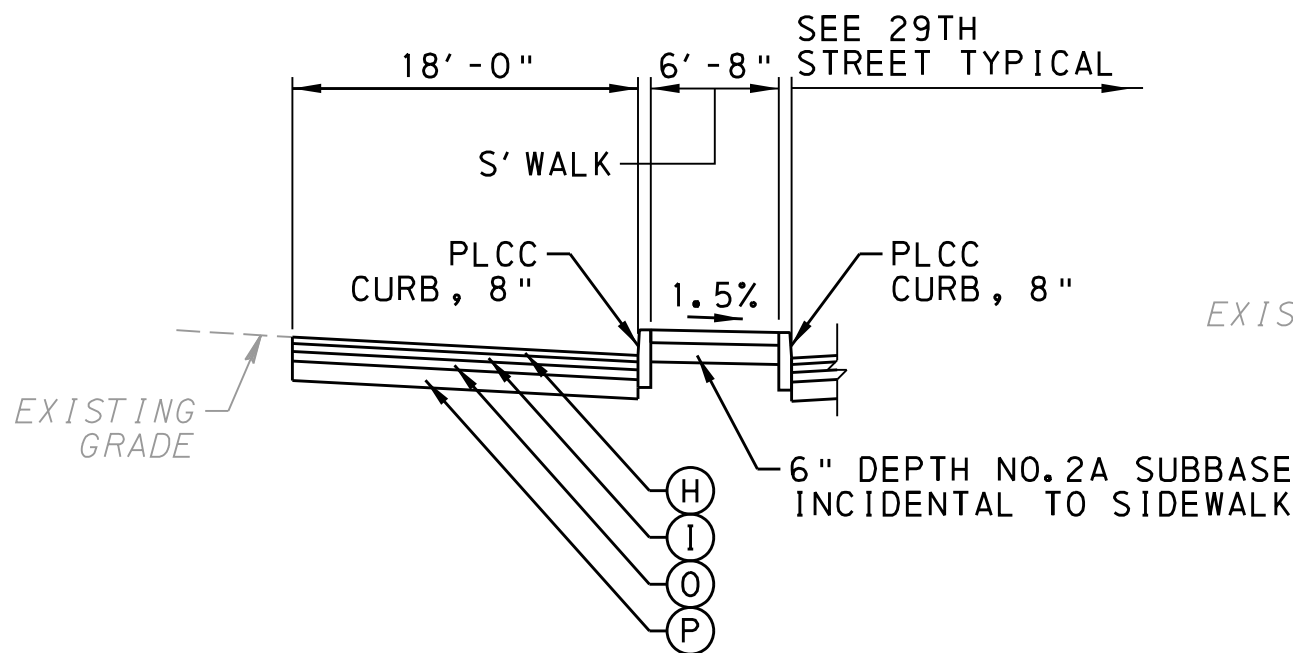
STATION 950+80.88 TO 953+71.11 SR 8021 RAMP V
TYPE OF STRUCTURE: GROUND MOUNTED SOUND BARRIER
STRUCTURE NO: S-40317

STATION 904+53.86 TO 909+03.26 SR 8021 RAMP U
TYPE OF STRUCTURE: REINFORCED CONCRETE RETAINING WALL
STRUCTURE NO: S-40318

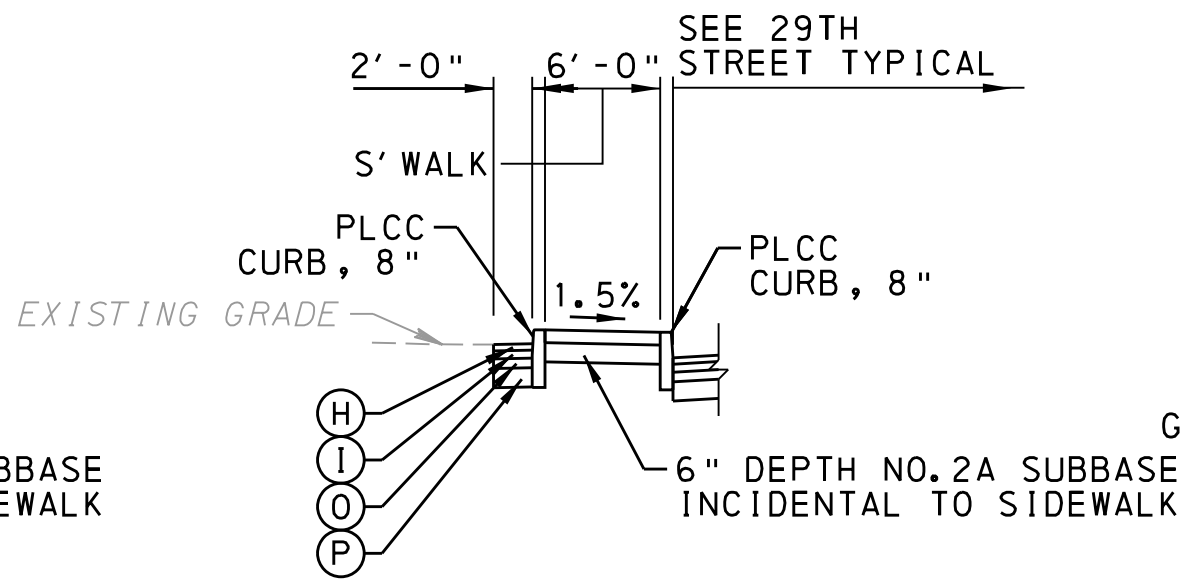
STATION 73+72.65 SR 0083 TO 908+62.54 SR 8021 RAMP U
TYPE OF STRUCTURE: REINFORCED CONCRETE RETAINING WALL
STRUCTURE NO: S-40319



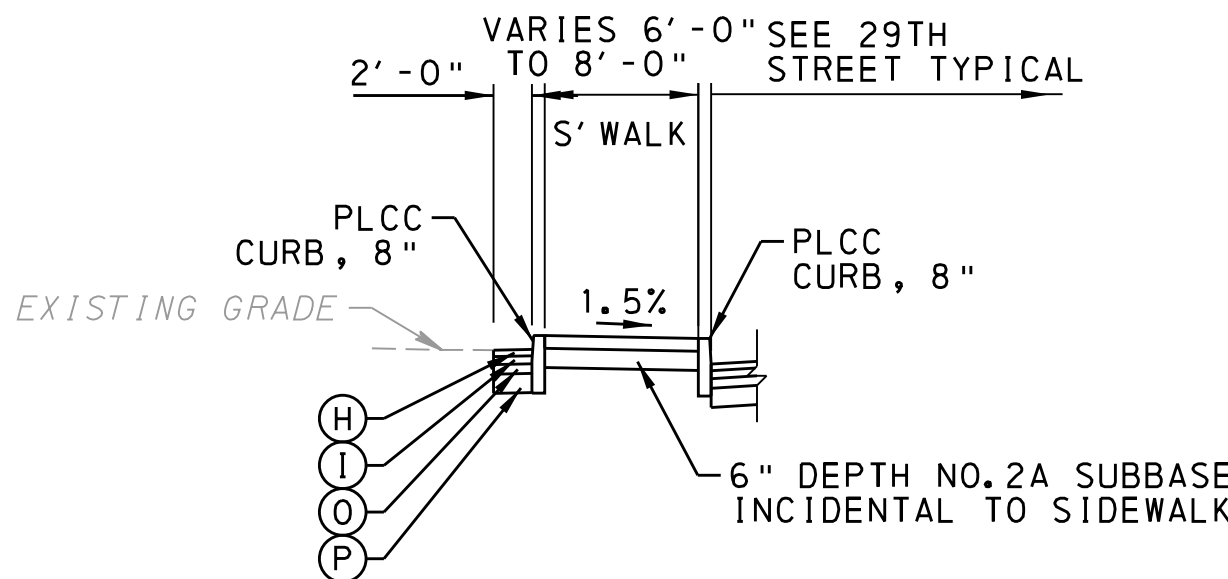
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	36 OF 435
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH				
REVISION NUMBER	REVISIONS			DATE



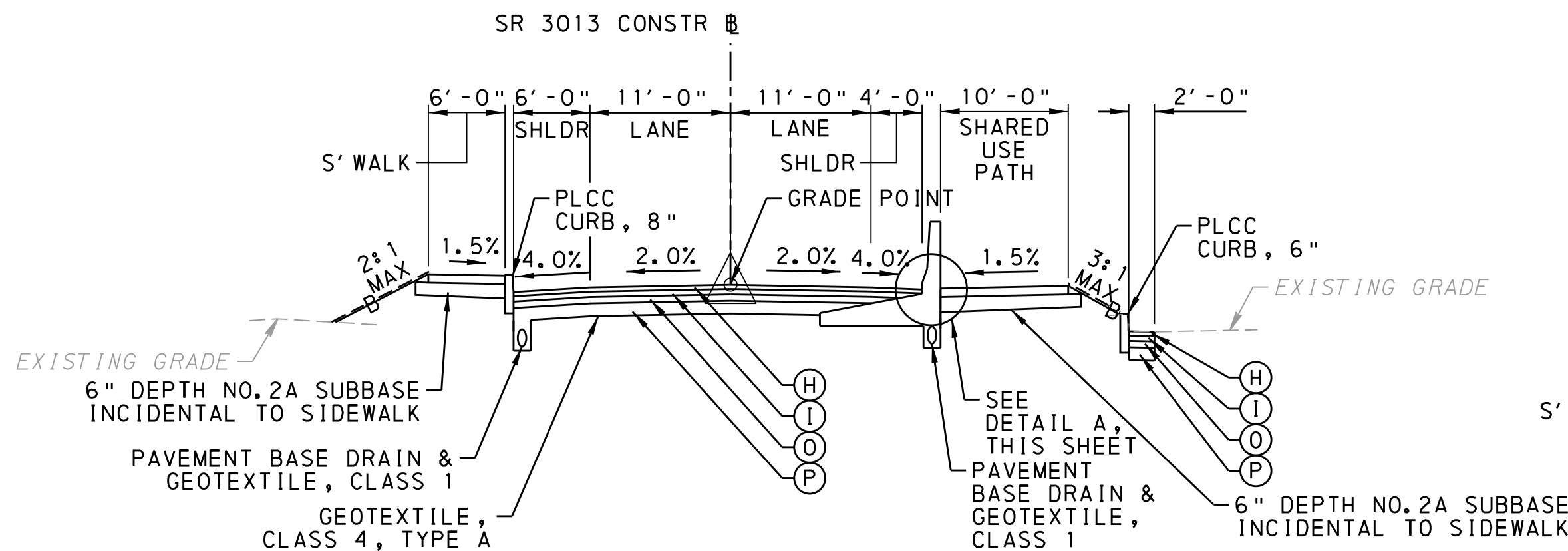
TYPICAL SIDEWALK SECTION
SR 3013 (29TH STREET), LT
STA 30+42.15 TO STA 31+71.32
NOT TO SCALE



TYPICAL SIDEWALK SECTION
SR 3013 (29TH STREET), LT
STA 31+71.32 TO STA 31+98.45
NOT TO SCALE



TYPICAL SIDEWALK SECTION
SR 3013 (29TH STREET), LT
STA 31+98.45 TO STA 34+51.52
NOT TO SCALE



TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)

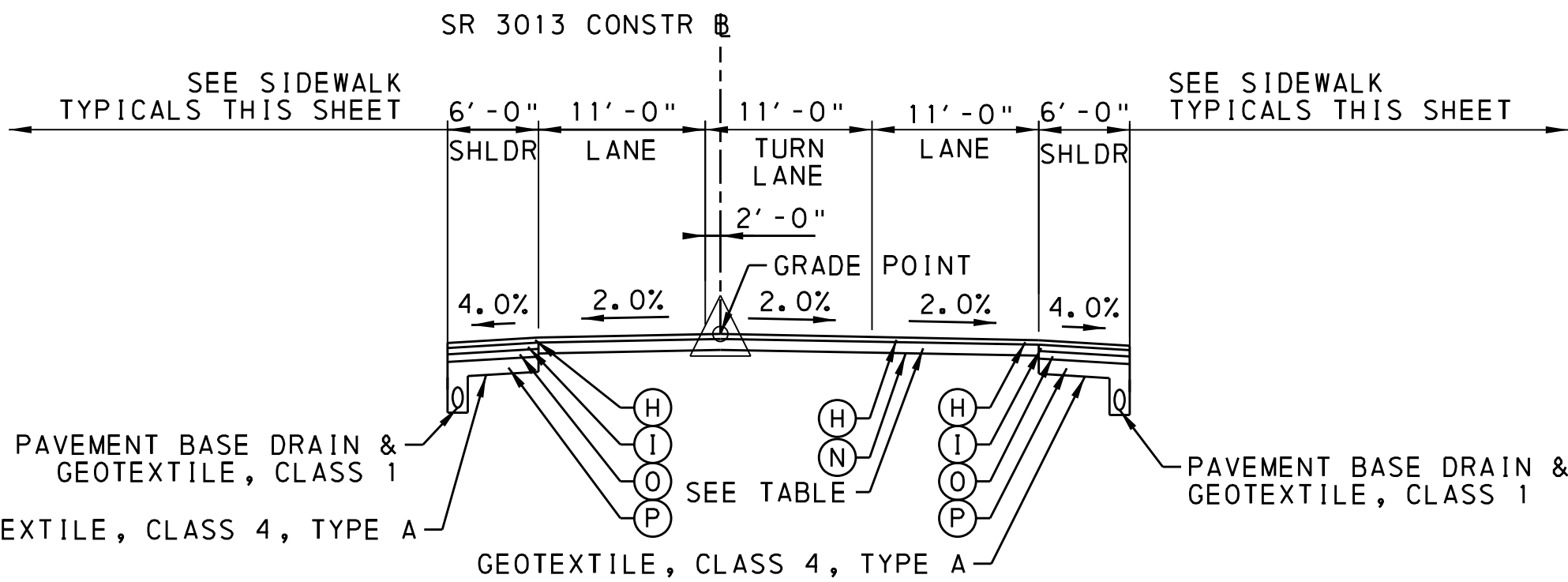
STA 34+51.52 TO STA 36+50.72
*SEE STRUCTURE PLANS FOR LIMITS OF MOMENT SLABS
NOT TO SCALE

LEGEND

- (H) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, RPS, PG 64E-22, 3 TO <10 MILLION ESALS, 12.5 MM MIX, 2" DEPTH, SRL-E
- (I) SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, RPS, PG 64E-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- (O) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 3" DEPTH
- (P) SUBBASE 6" DEPTH (NO. 2A)
- (N) MILLING OF ASPHALT PAVEMENT SURFACE, 2 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR

---B--- SEEDING AND SOIL SUPPLEMENT - FORMULA D

---L--- SEEDING AND SOIL SUPPLEMENT - FORMULA L

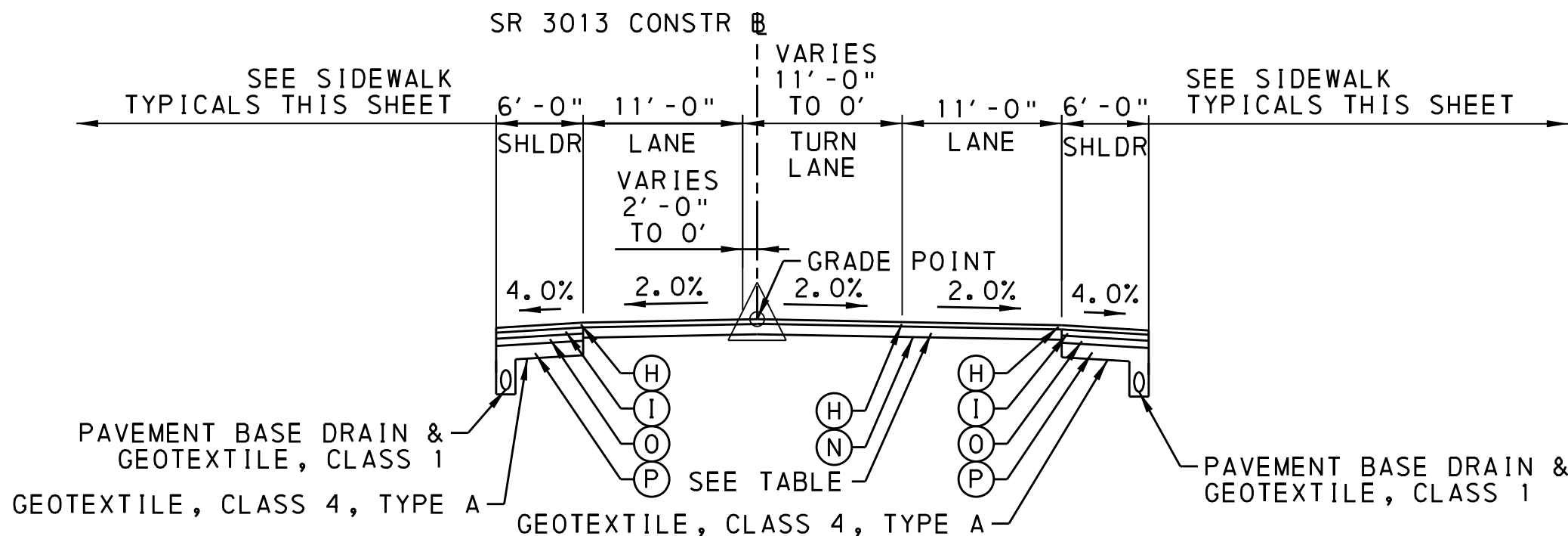


TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)

STA 30+05.40 TO STA 32+12.52

NOT TO SCALE

*SEE DETAILS FOR DRIVEWAY LOCATIONS

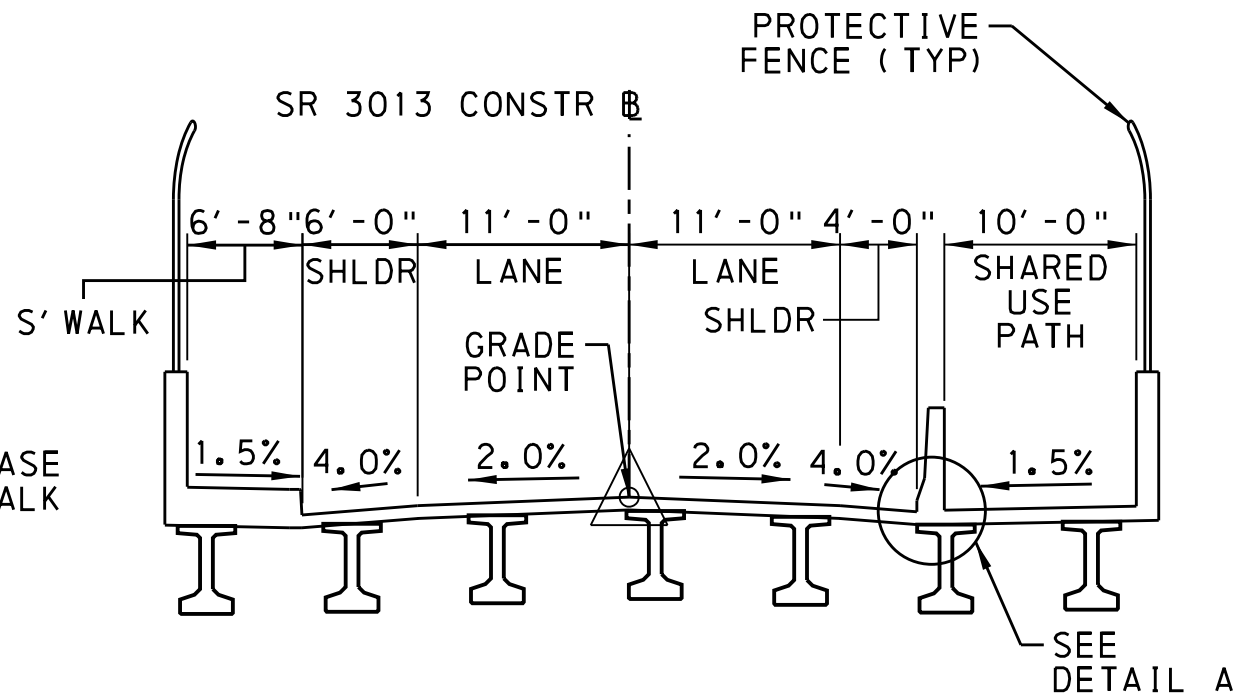


TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)

STA 32+12.52 TO STA 34+51.52

NOT TO SCALE

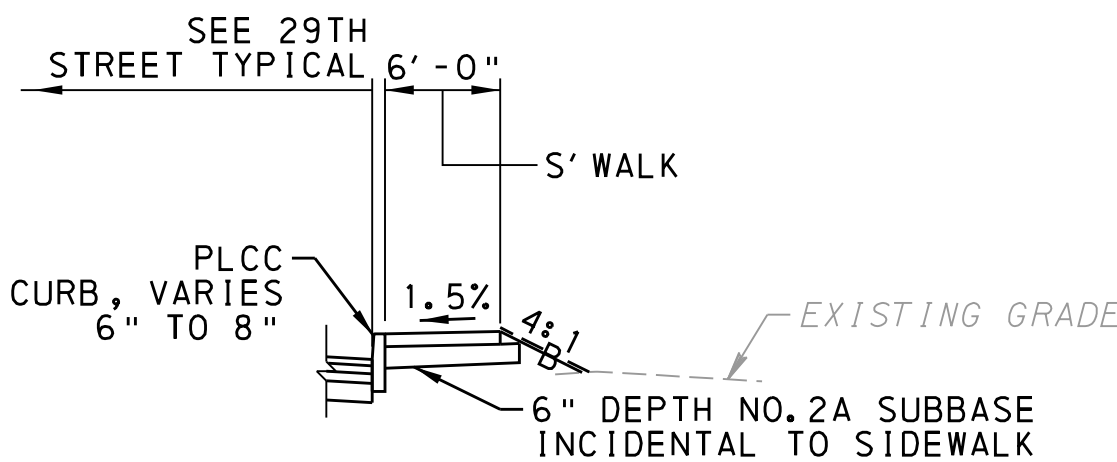
*SEE DETAILS FOR DRIVEWAY LOCATIONS



TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)

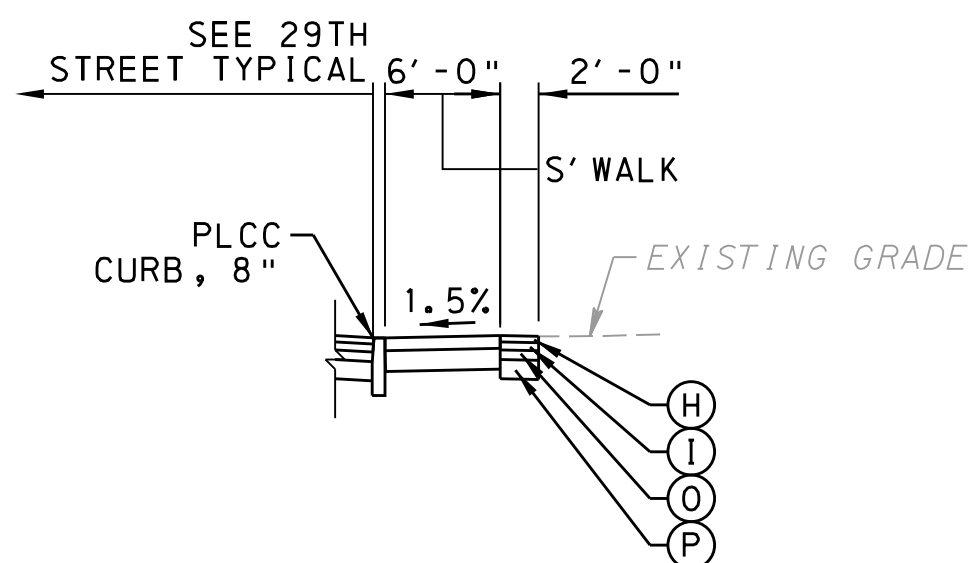
STA 36+50.72 TO STA 40+05.76
NOT TO SCALE

NOTE: 1. APPLY ASPHALT TACK COAT BETWEEN ALL PAVEMENT LAYERS
2. FOR LANE CONFIGURATIONS SEE SIGNING AND PAVEMENT MARKING PLAN



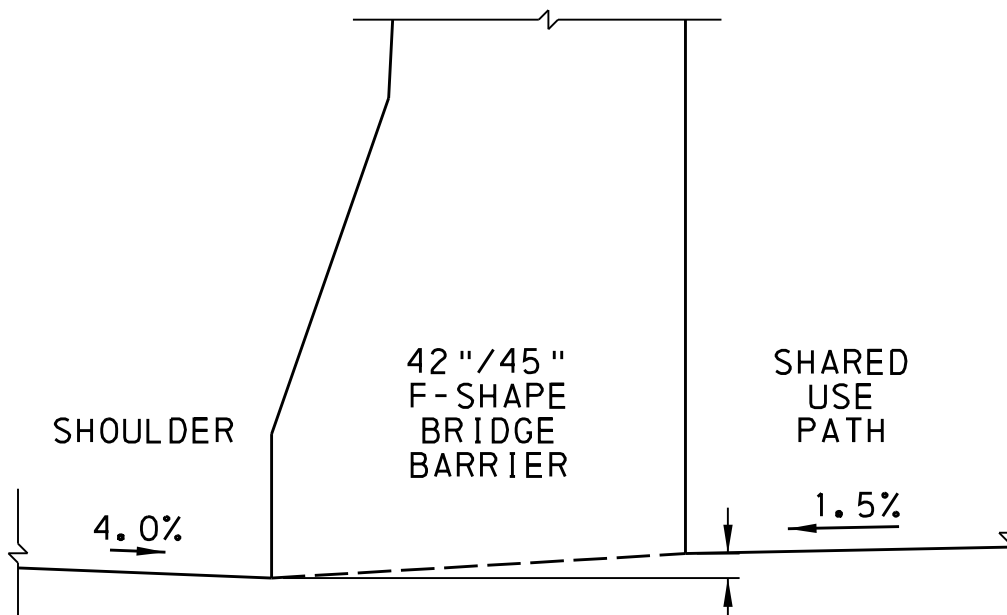
TYPICAL SIDEWALK SECTION
SR 3013 (29TH STREET), RT

STA 30+40.30 TO STA 31+01.10
STA 33+37.52 TO STA 33+74.35
NOT TO SCALE



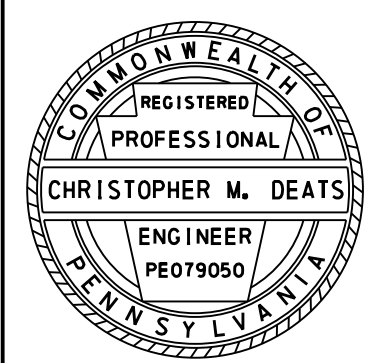
TYPICAL DEPRESSED SIDEWALK SECTION
SR 3013 (29TH STREET), RT

STA 31+35.66 TO STA 33+37.52
NOT TO SCALE

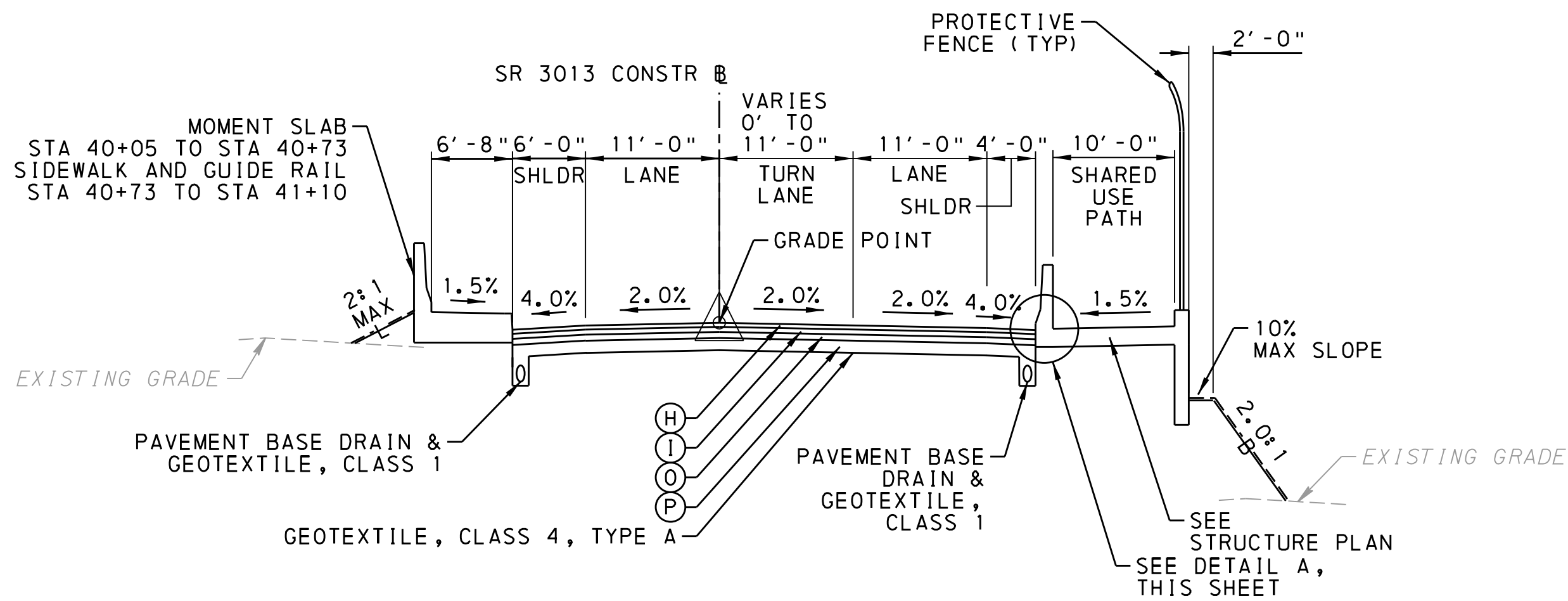


DETAIL A
NOT TO SCALE

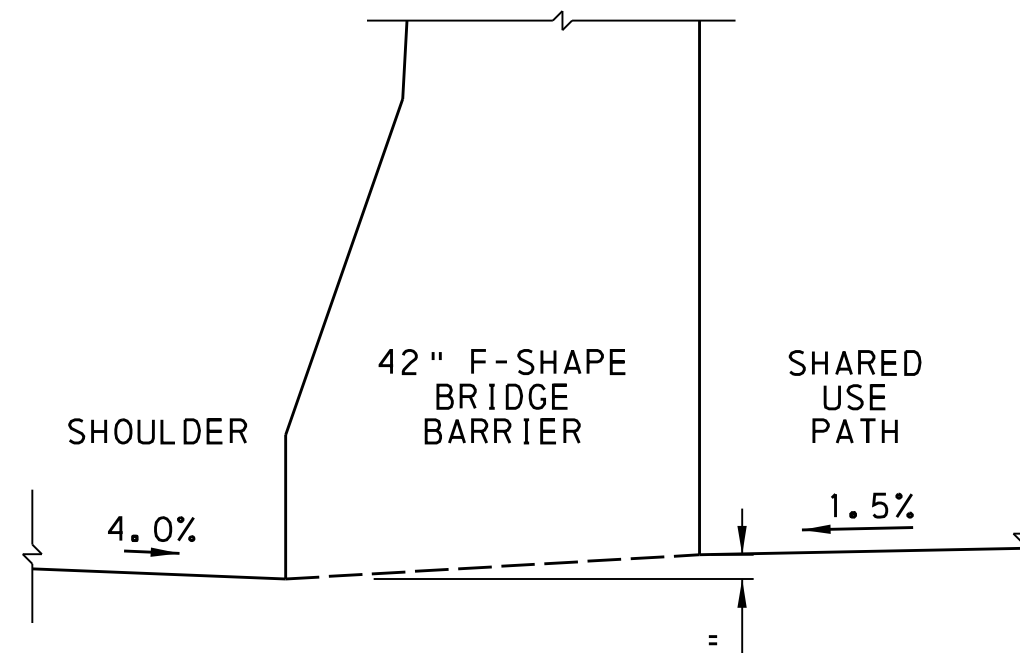
DEPTH	REQUIRED PAVEMENT COURSES
>1", <2.5"	SUPERPAVE ASPHALT MIXTURE DESIGN WEARING COURSE (LEVELING), PG 64S-22, 3 TO < 10 MILLION ESALS, 9.5 MM MIX, SRL-L (MIN 1", MAX 2.5" DEPTH)
>2.5", <=6.0"	SUPERPAVE ASPHALT MIXTURE DESIGN WEARING COURSE (LEVELING), PG 64S-22, 3 TO < 10 MILLION ESALS, 9.5 MM MIX, SRL-L (MIN 1", MAX 2.5" DEPTH) + SUPERPAVE ASPHALT MIXTURE DESIGN BINDER COURSE (LEVELING), PG 64S-22, 3 TO < 10 MILLION ESALS, 19.0 MM MIX (MIN 2", MAX 4.5" DEPTH)



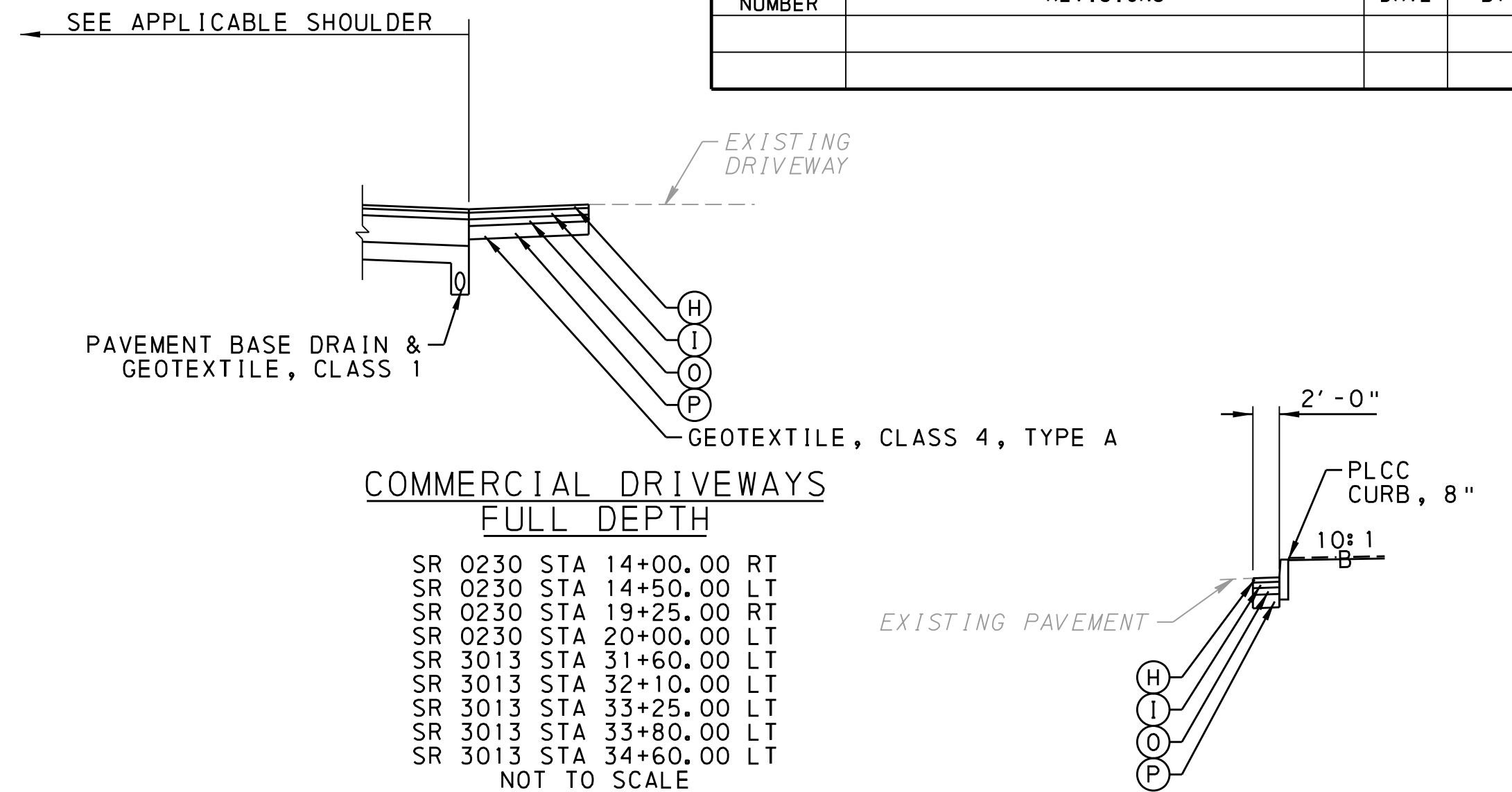
DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	37 OF 435	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH					
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TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)
STA 40+05.76 TO STA 41+10.20
NOT TO SCALE

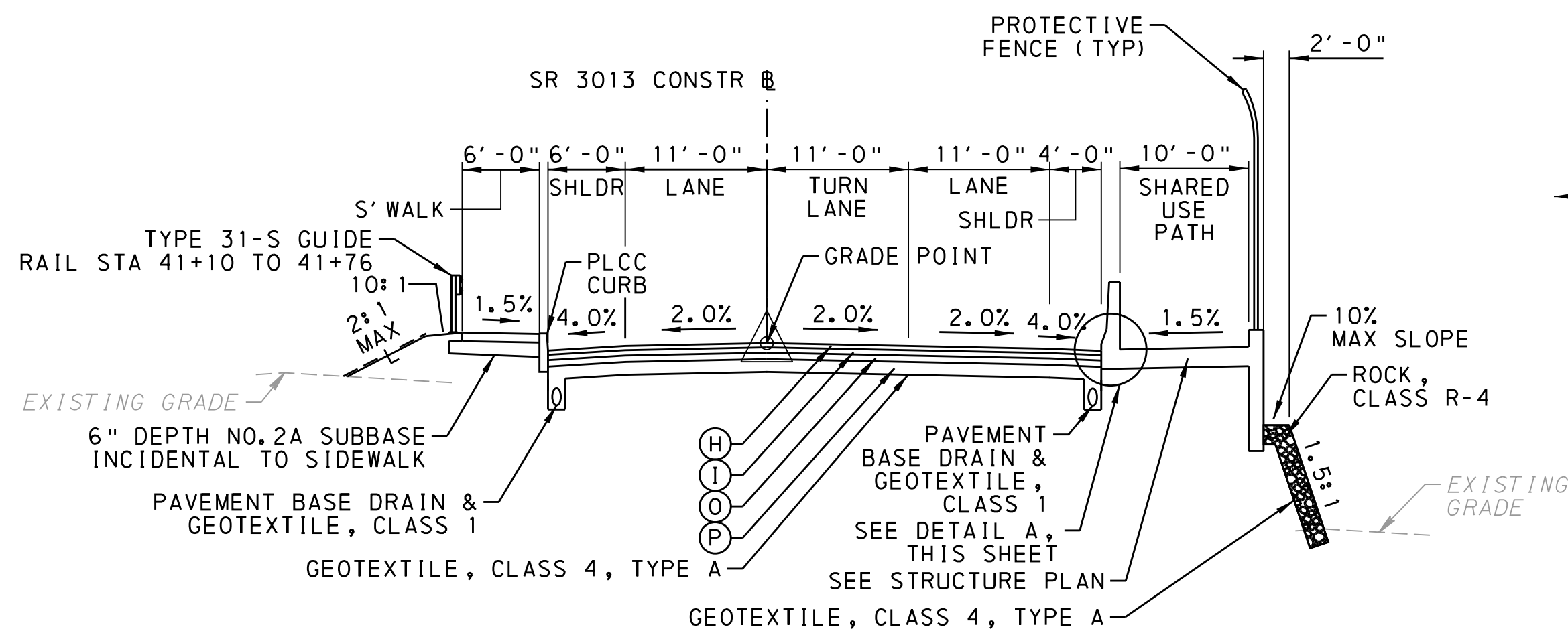


DETAIL A
NOT TO SCALE

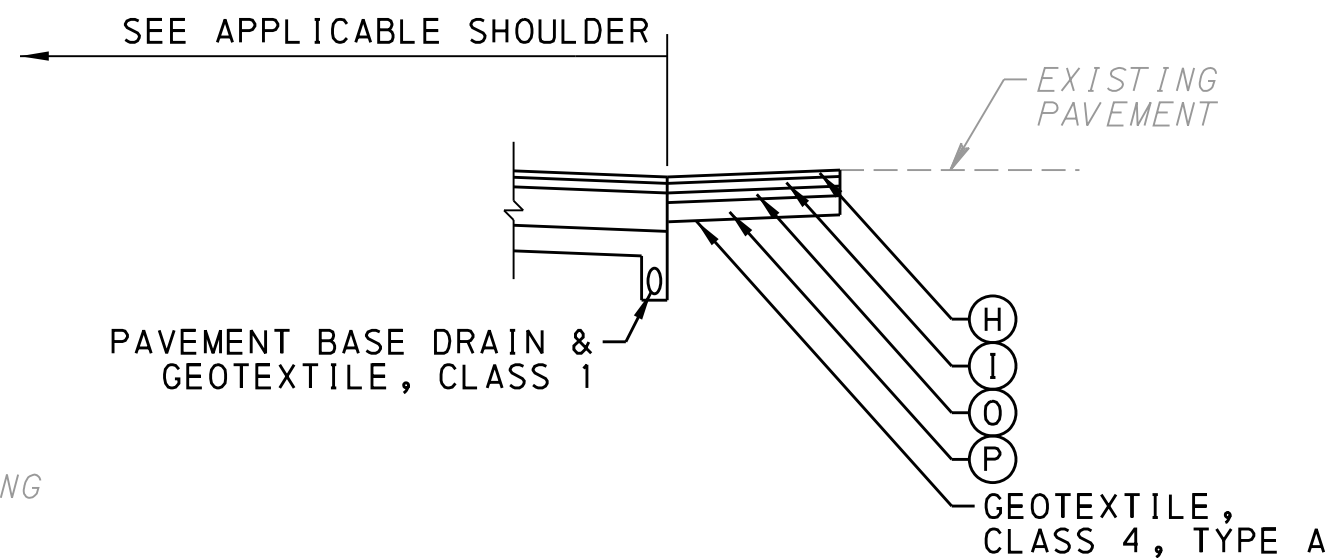


COMMERCIAL DRIVEWAYS
FULL DEPTH

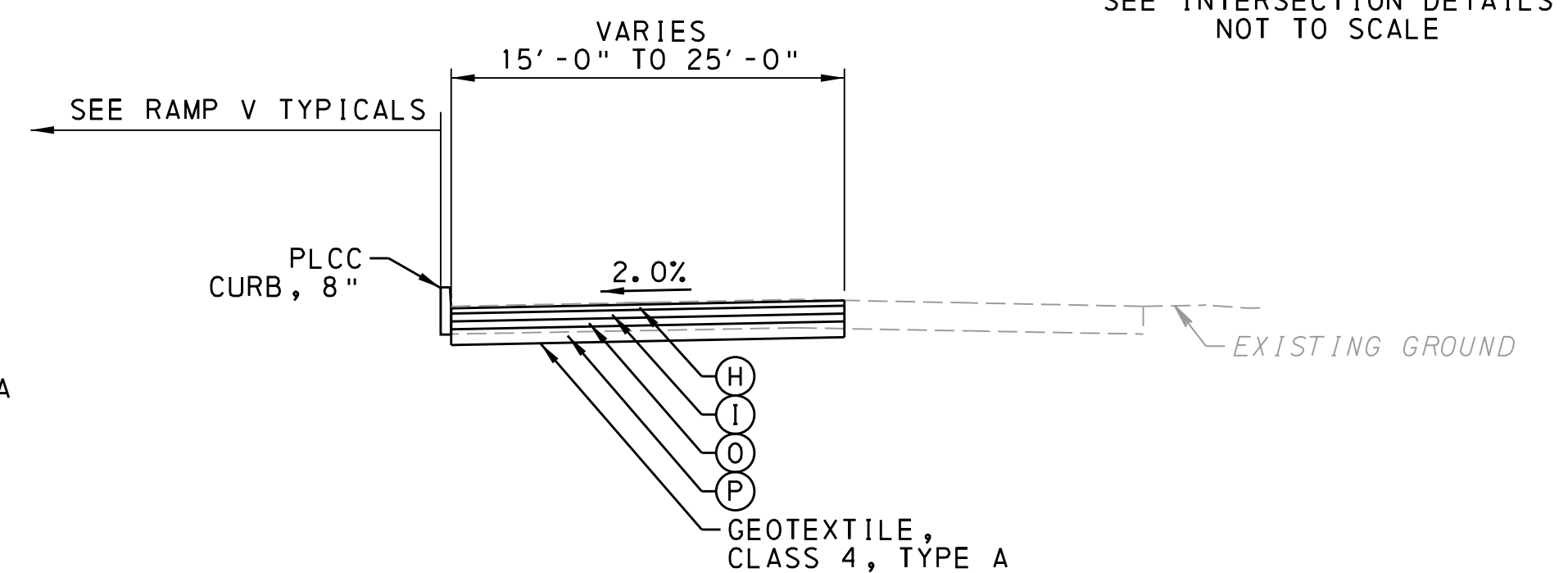
WISTER STREET
SEE INTERSECTION DETAILS
NOT TO SCALE



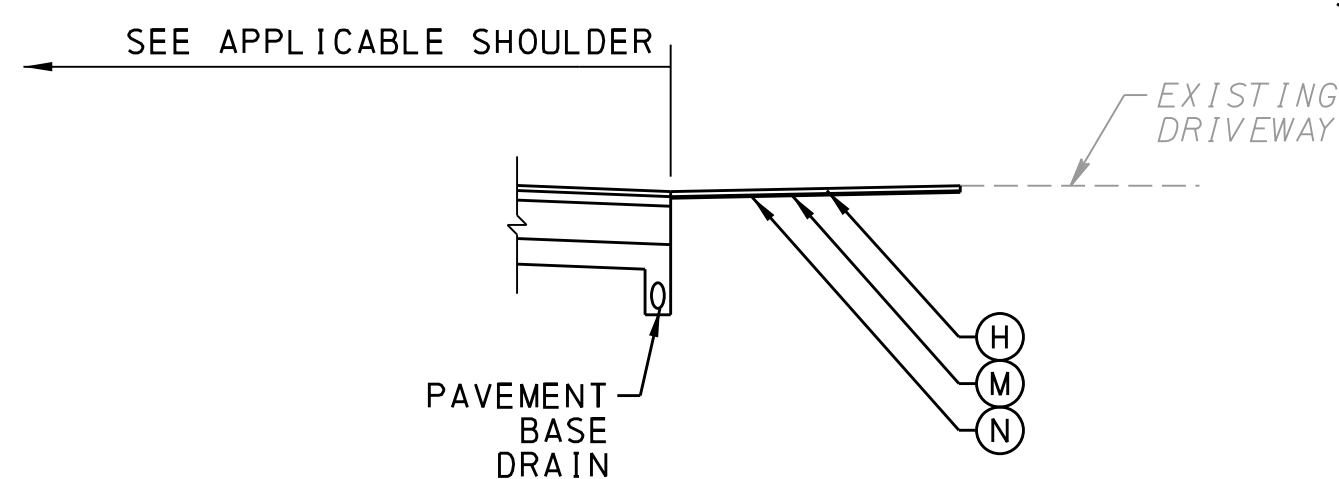
TYPICAL TANGENT SECTION
SR 3013 (29TH STREET)
STA 41+10.20 TO STA 43+02.05
NOT TO SCALE



LOCAL ROADS
SR 0230 STA 25+50.00 LT
SR 0230 STA 30+15.00 LT
SR 0230 STA 32+60.00 LT
SR 3007 STA 94+25.00 RT
SR 3007 STA 96+80.00 RT
SR 3007 STA 105+40.00 RT
SR 3013 STA 31+10.00 RT
18TH STREET (SEE INTERSECTION DETAILS)
NOT TO SCALE



TYPICAL TANGENT SECTION
SOUTH 20TH STREET & YATES ALLEY
STA 10+00.00 TO STA 14+79.34
NOT TO SCALE

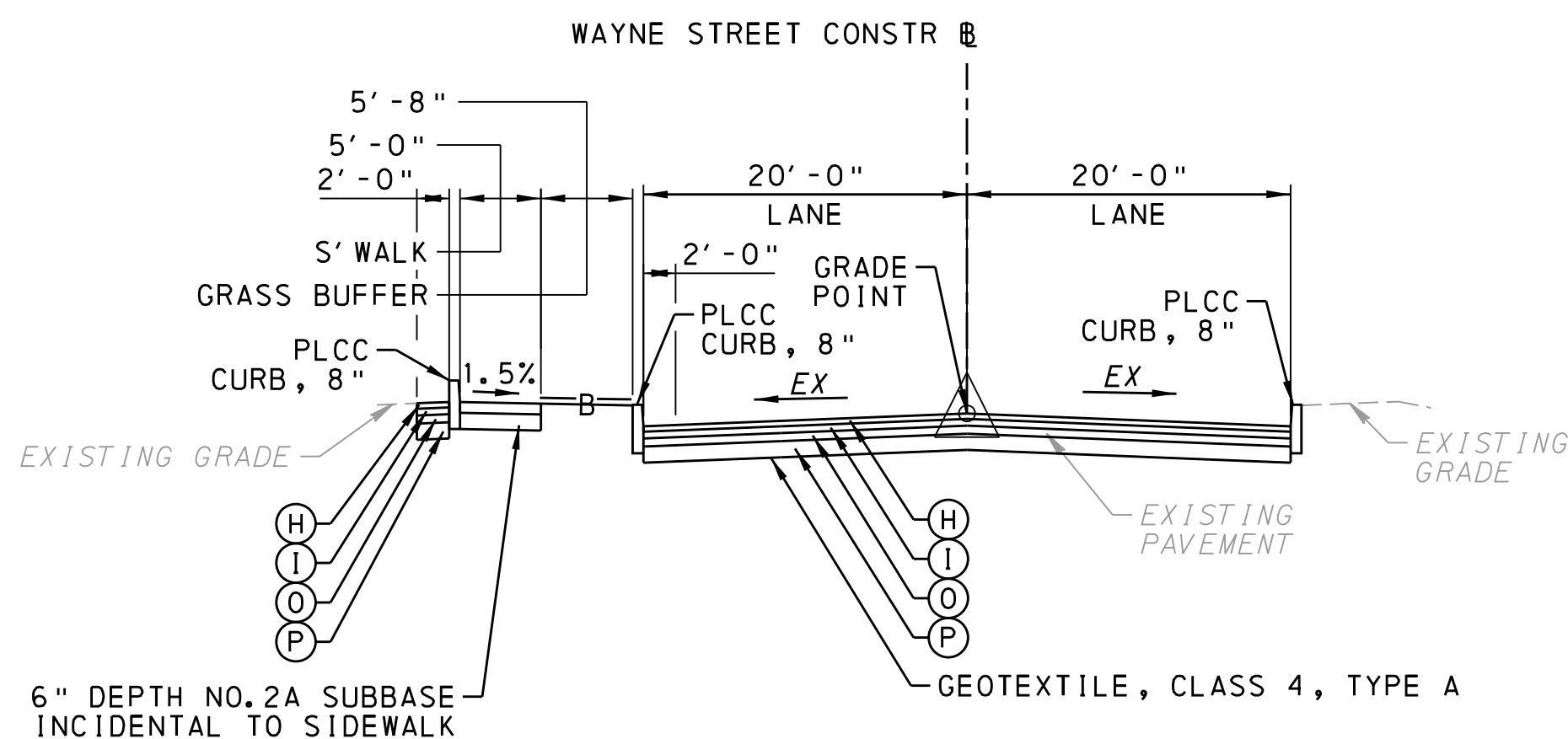


COMMERCIAL DRIVEWAYS
MILLING AND OVERLAY

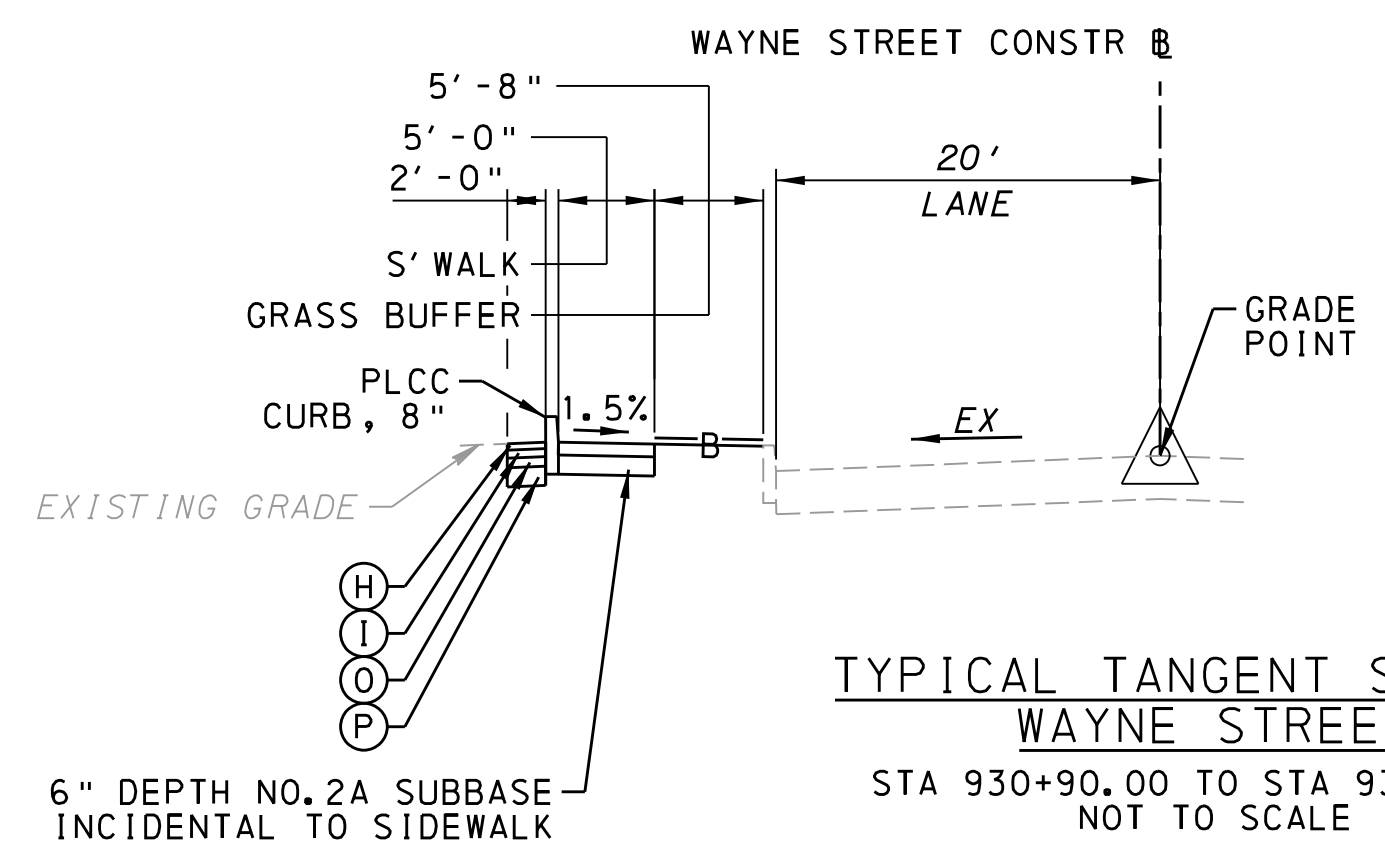
SR 0230 STA 11+85.00 LT
SR 0230 STA 11+85.00 RT
SR 0230 STA 14+90.00 RT
NOT TO SCALE

LEGEND

- (H) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, RPS, PG 64E-22, 3 TO <10 MILLION ESALS, 12.5 MM MIX, 2" DEPTH, SRL-E
- (I) SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, RPS, PG 64E-22, 3 TO <10 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- (O) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 3 TO <10 MILLION ESALS, 25.0 MM MIX, 3" DEPTH
- (P) SUBBASE 6" DEPTH (NO. 2A)
- (M) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE (SCRATCH), PG 64S-22, 3 TO <10 MILLION ESALS, 9.5 MM MIX, SRL-L (0.5" MIN DEPTH)
- (N) MILLING OF ASPHALT PAVEMENT SURFACE, 2 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR
- B— SEEDING AND SOIL SUPPLEMENT - FORMULA B

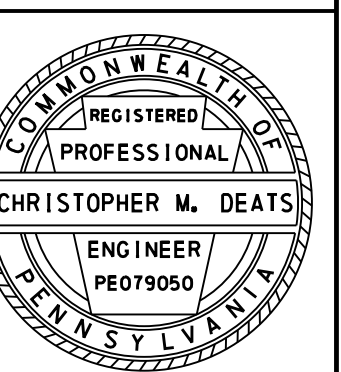


TYPICAL TANGENT SECTION
WAYNE STREET
STA 930+15.00 TO STA 930+90.00
NOT TO SCALE



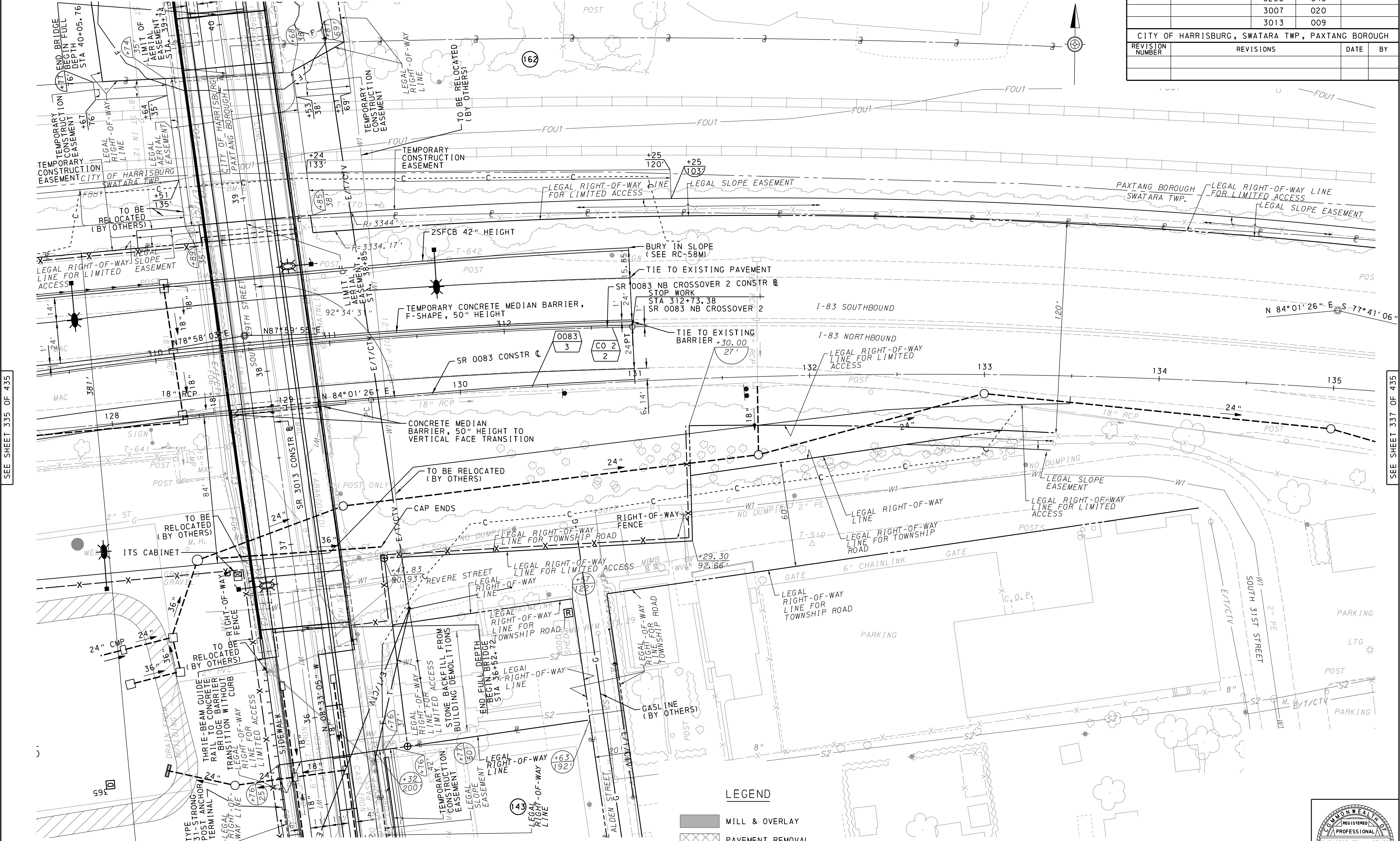
TYPICAL TANGENT SECTION
WAYNE STREET
STA 930+90.00 TO STA 931+57.57
NOT TO SCALE

NOTE: 1. APPLY ASPHALT TACK COAT
BETWEEN ALL PAVEMENT LAYERS
2. FOR LANE CONFIGURATIONS SEE
SIGNING AND PAVEMENT MARKING PLAN



DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	336 OF 435	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH					
REVISION NUMBER	REVISIONS			DATE	BY

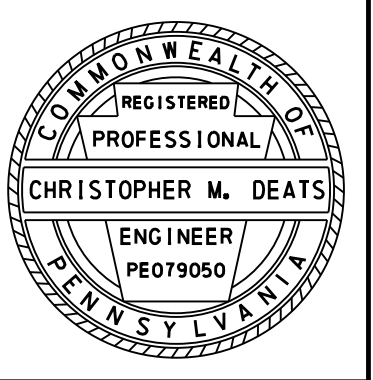
SEE SHEET 335 OF 435



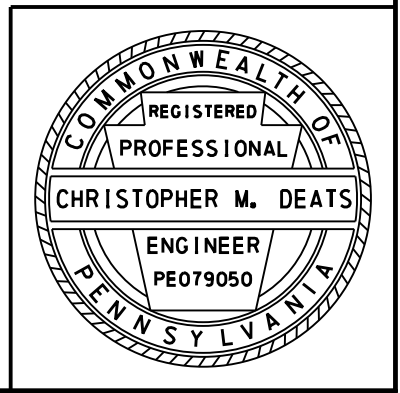
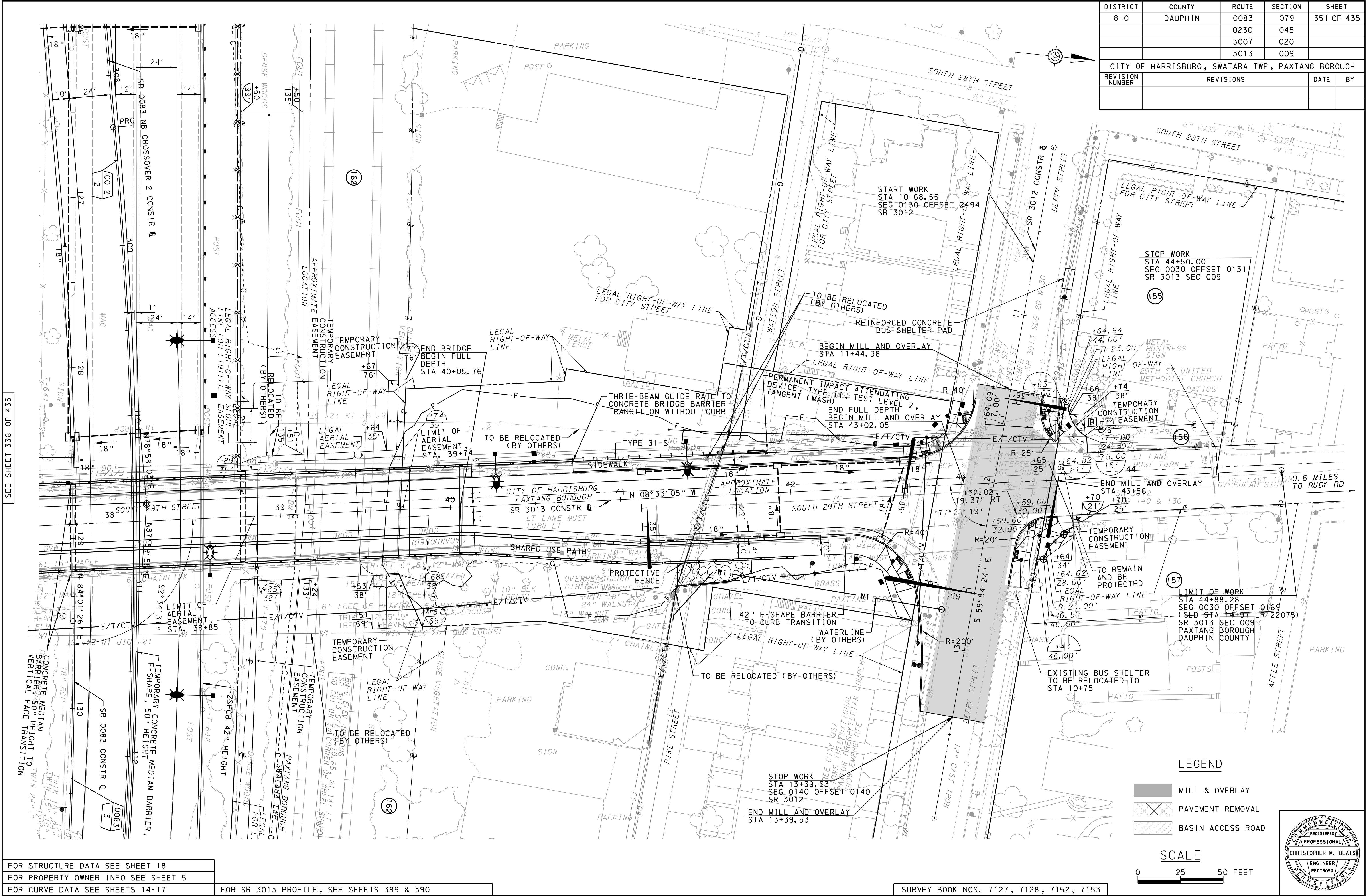
SEE SHEET 337 OF 435

FOR STRUCTURE DATA SEE SHEET 18	FOR SR 0083 NB CROSSOVER 2 PROFILE, SEE SHEET 368
FOR PROPERTY OWNER INFO SEE SHEET 5	FOR SR 3013 PROFILE, SEE SHEETS 388 & 389
FOR CURVE DATA SEE SHEETS 14-17	FOR SR 0083 PROFILE, SEE SHEETS 364

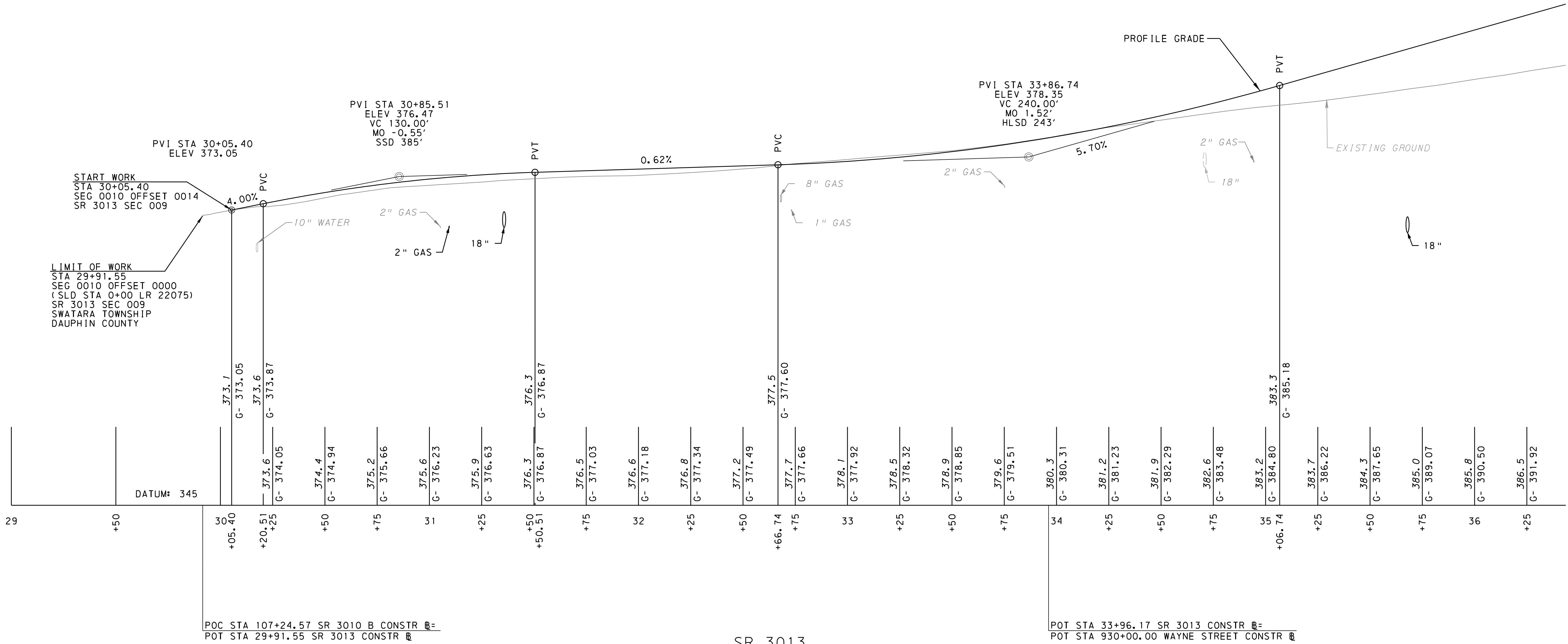
- LEGEND**
- MILL & OVERLAY
 - PAVEMENT REMOVAL
 - BASIN ACCESS ROAD



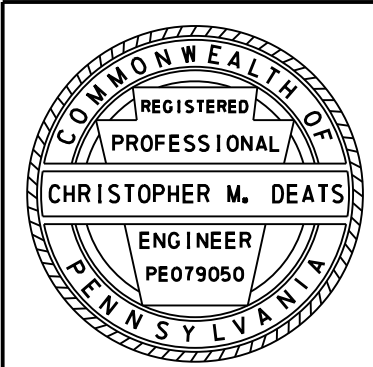
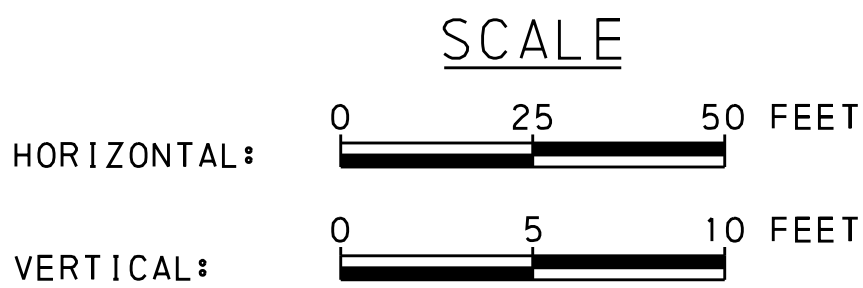
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	351 OF 435
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH				
REVISION NUMBER	REVISIONS		DATE	BY



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	388 OF 435
		0230	045	
		3007	020	
		3013	009	
SWATARA TWP				
REVISION NUMBER	REVISIONS	DATE	BY	

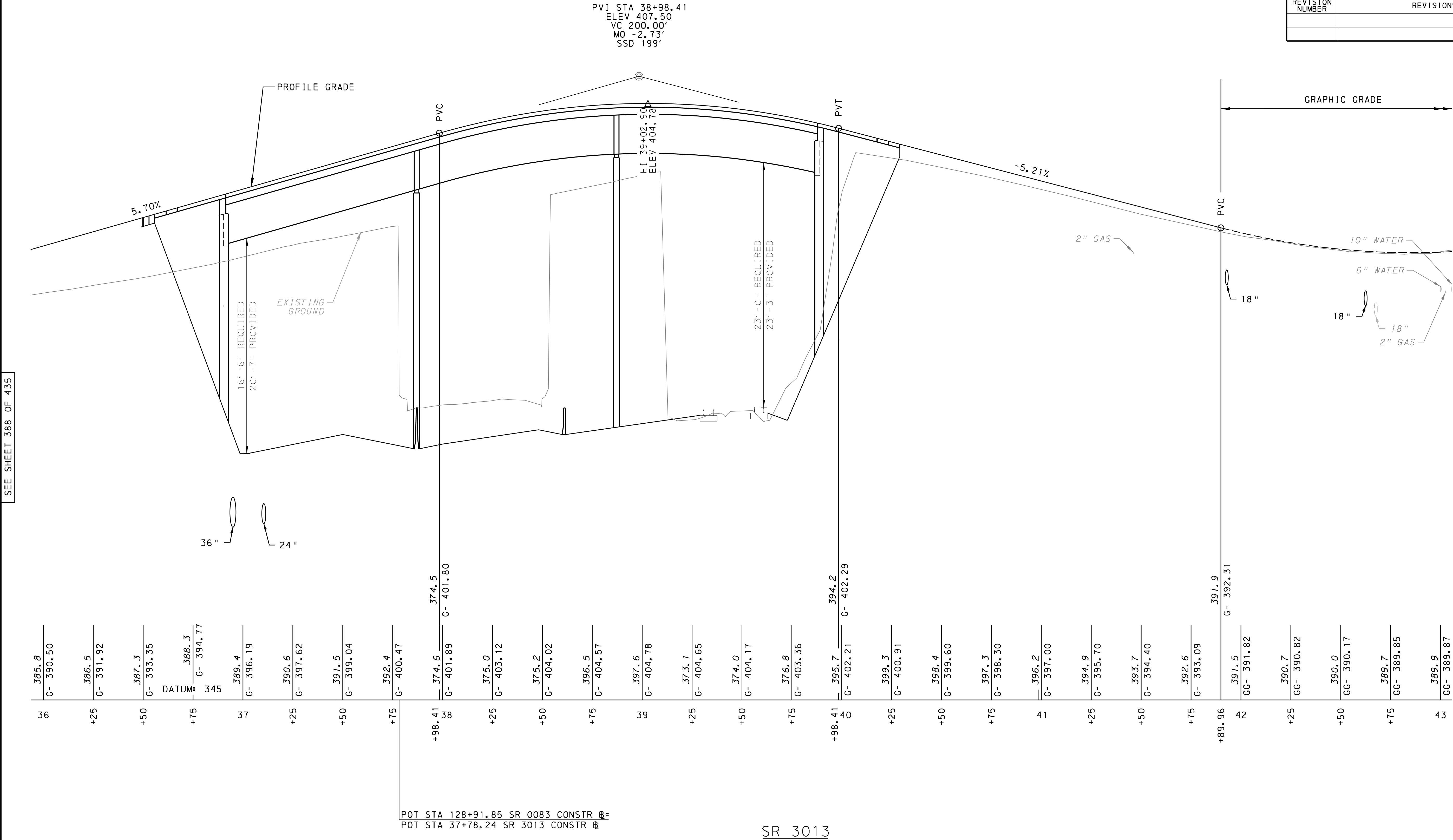


FOR PLAN, SEE SHEETS 336 & 349

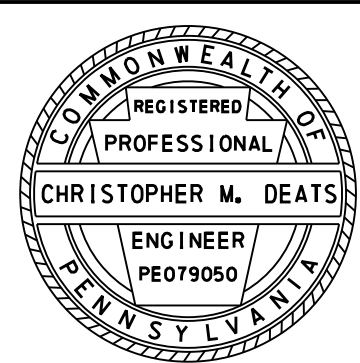
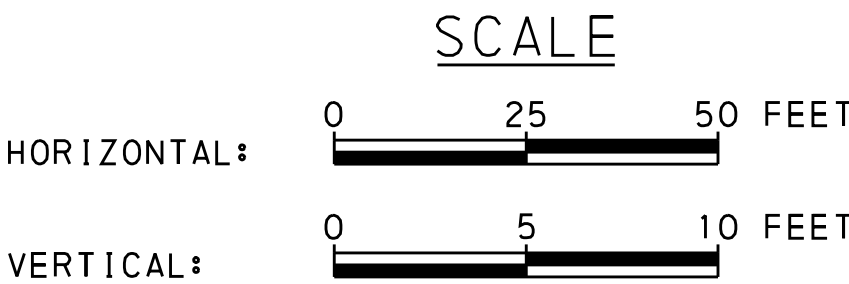


SEE SHEET 389 OF 435

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	389 OF 435	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH					
REVISION NUMBER	REVISIONS			DATE	BY



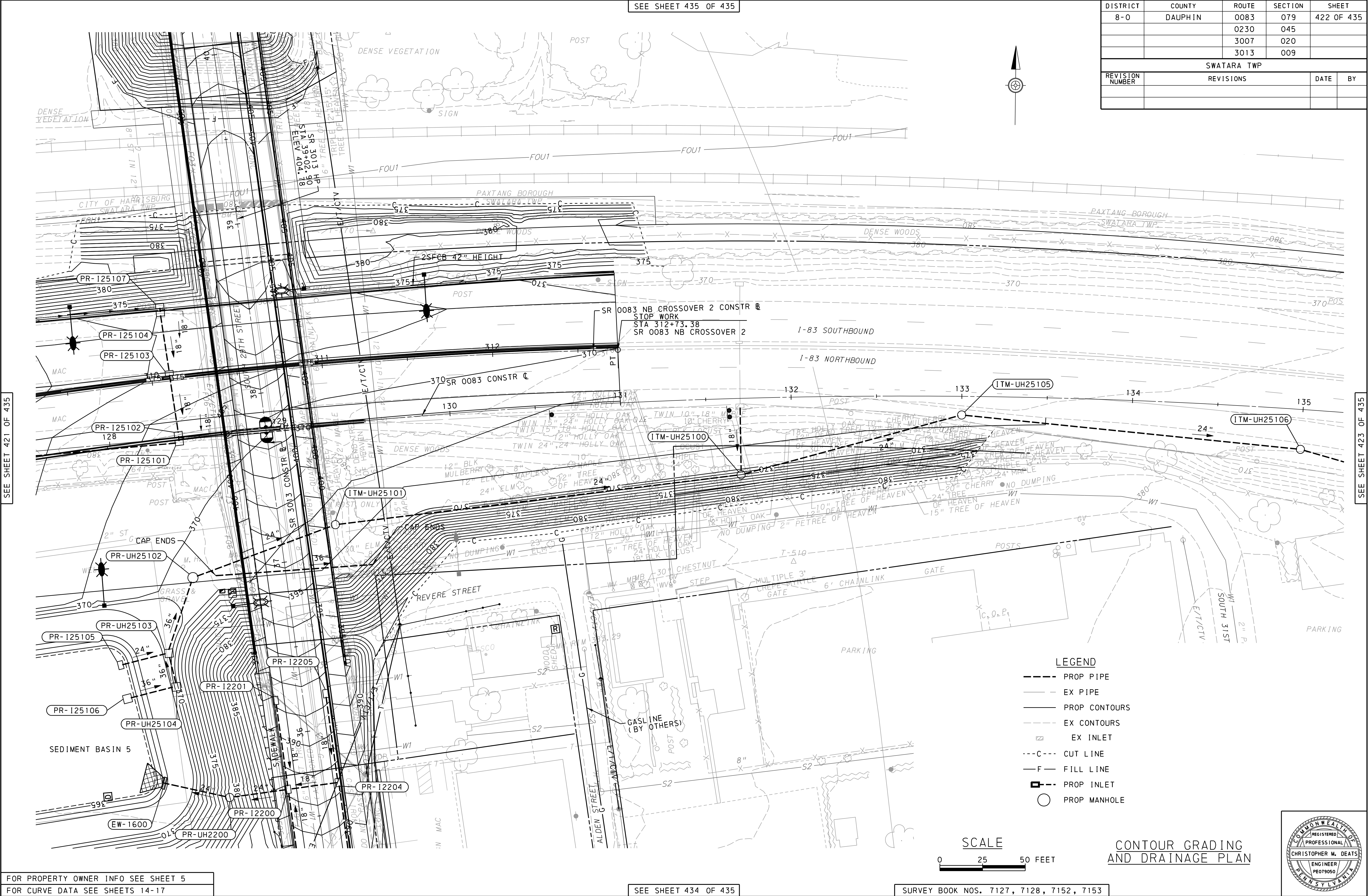
FOR PLAN, SEE SHEETS 336, 349 & 351



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	422 OF 435
		0230	045	
		3007	020	
		3013	009	
SWATARA TWP				
REVISION NUMBER	REVISIONS	DATE	BY	

SEE SHEET 421 OF 435

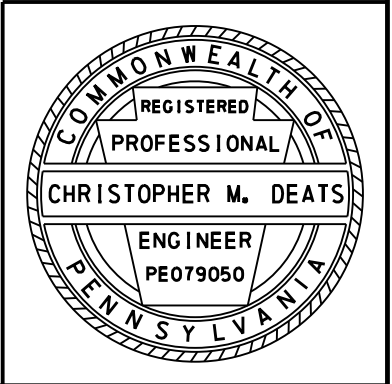
SEE SHEET 423 OF 435



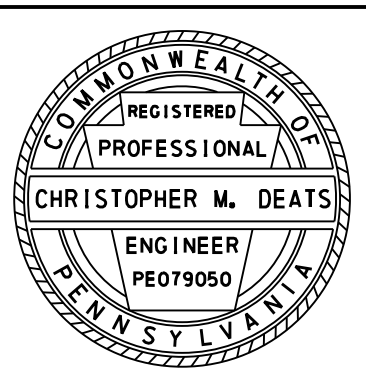
- LEGEND
- PROP PIPE
 - EX PIPE
 - PROP CONTOURS
 - EX CONTOURS
 - EX INLET
 - C--- CUT LINE
 - F--- FILL LINE
 - PROP INLET
 - PROP MANHOLE

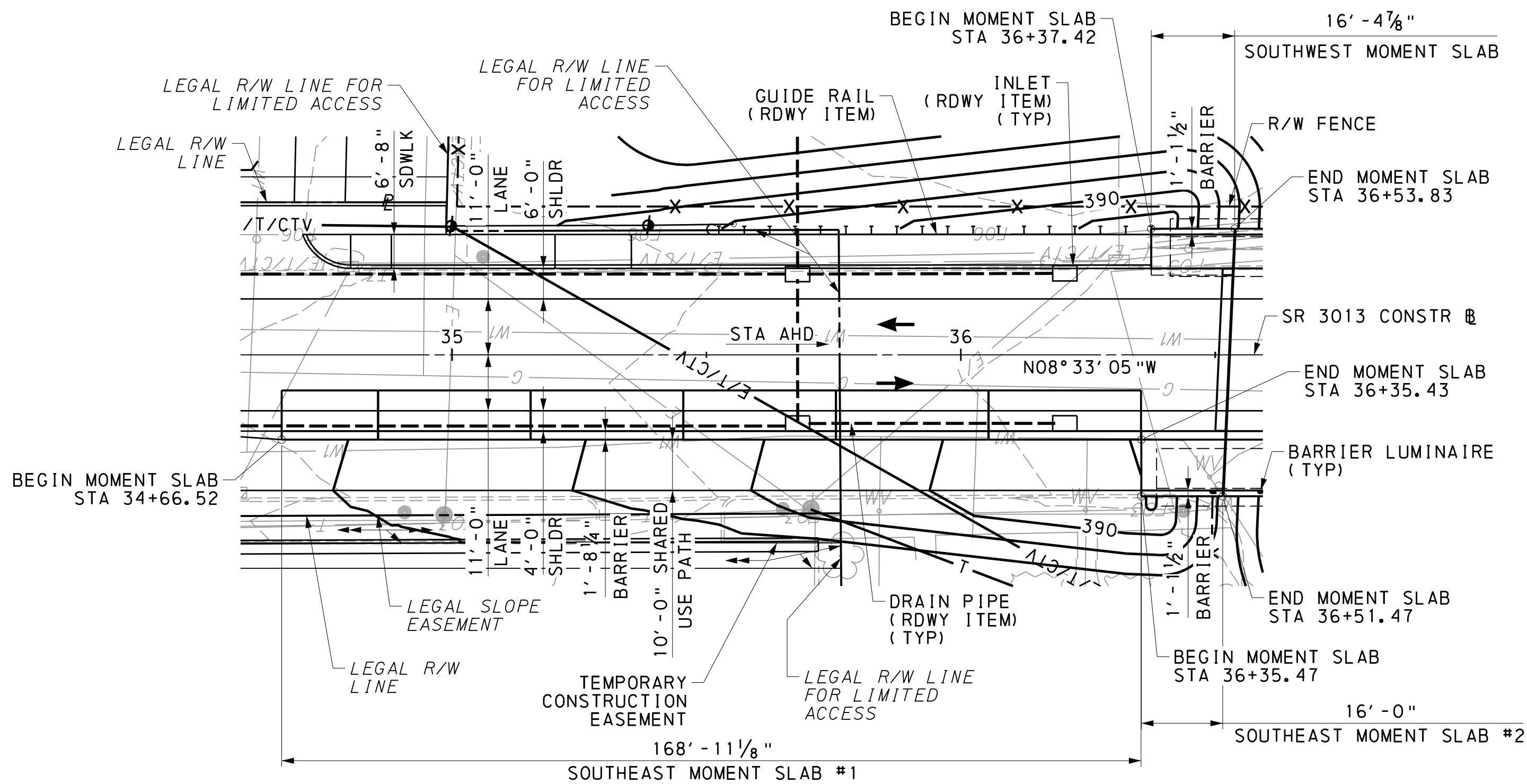


CONTOUR GRADING
AND DRAINAGE PLAN



REVISION NUMBER	REVISIONS	DATE	BY





NEAR MOMENT SLABS

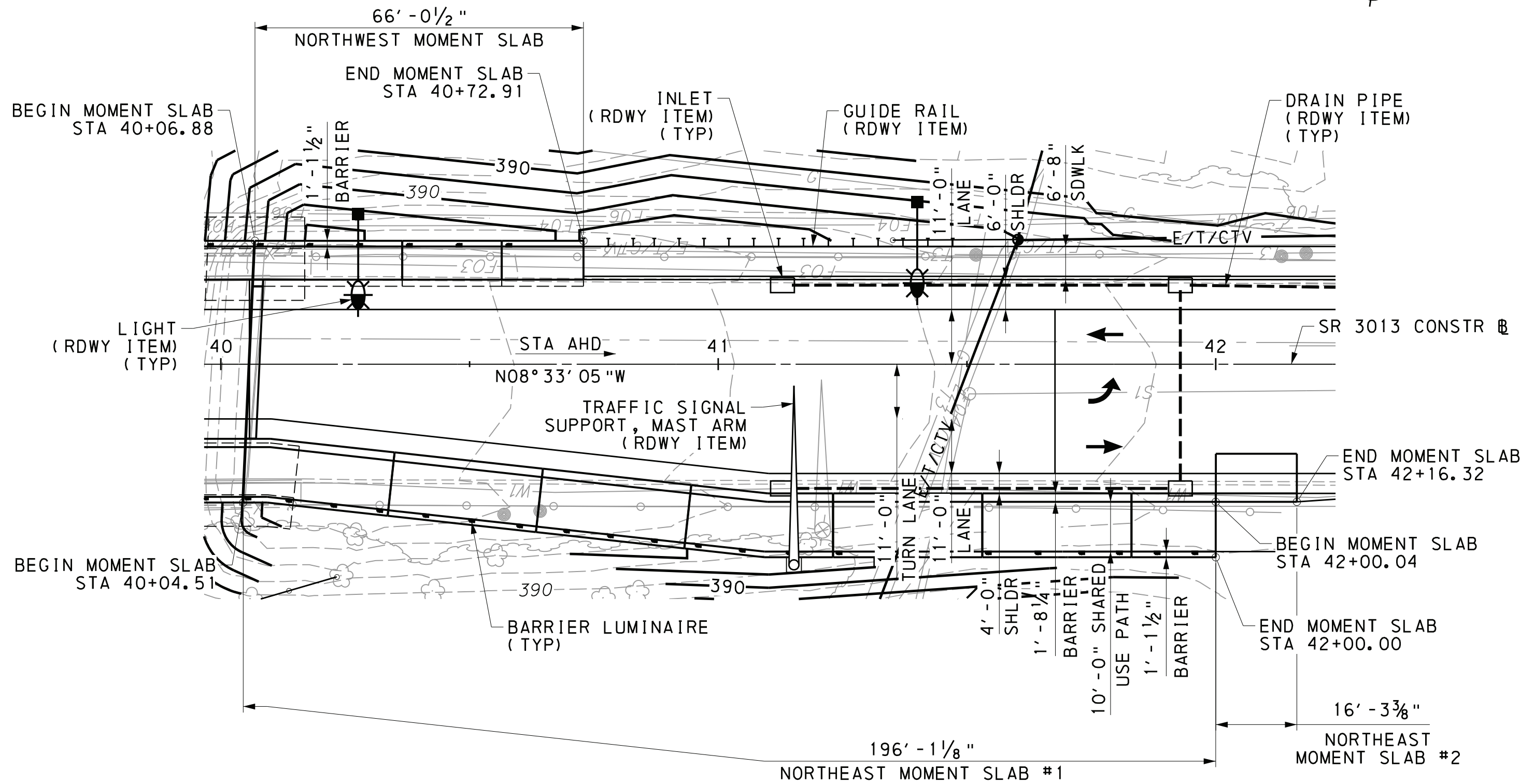


LEGEND OF ABBREVIATIONS:

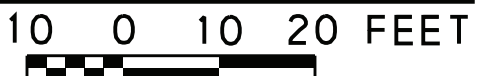
ABUT	=	ABUTMENT
ADT	=	AVERAGE DAILY TRAFFIC
ADTT	=	AVERAGE DAILY TRUCK TRAFFIC
ALT	=	ALTERNATE
APPR	=	APPROACH
APPROX	=	APPROXIMATE
AHD	=	AHEAD
AUX	=	AUXILIARY
BL	=	BASELINE
BRG	=	BEARING
BOT	=	BOTTOM
BFE	=	BOTTOM OF FOOTING ELEVATION
CL	=	CENTERLINE
CG	=	CENTER OF GRAVITY
CHK'D/CKD	=	CHECKED
CLR	=	CLEAR
CONSTR	=	CONSTRUCTION
DES	=	DESIGN
Ø/DIA	=	DIAMETER
DWG	=	DRAWING
EA	=	EACH
EF	=	EACH FACE
ELEV	=	ELEVATION
EQ	=	EQUAL
EXIST	=	EXISTING
E/EXP	=	EXPANSION
FF	=	FRONT FACE
F	=	FIXED
GALV	=	GALVANIZED
H/HORIZ	=	HORIZONTAL
INV	=	INVERT
JT	=	JOINT
LT	=	LEFT
MAINT	=	MAINTENANCE
MAX	=	MAXIMUM
MP	=	MILEPOST
MIN	=	MINIMUM
NB	=	NORTHBOUND
NE	=	NORTHEAST
NW	=	NORTHWEST

LEGEND OF ABBREVIATIONS (CONTINUED):

NS	=	NORFOLK SOUTHERN RAILWAY
NO.	=	NUMBER
OD	=	OUTSIDE DIAMETER
PED	=	PEDESTAL
PL	=	PLATE
POB	=	POINT OF BEGINNING
POE	=	POINT OF ENDING
POT	=	POINT OF TANGENCY
PCP	=	PREFORMED CELLULAR POLYSTYRENE
P/S	=	PRESTRESSED
PG/PGL	=	PROFILE GRADE LINE
PROV	=	PROVIDED
PUB	=	PUBLICATION
R	=	RADIUS
R/W	=	RIGHT-OF-WAY
RDWY	=	ROADWAY
RECM'D	=	RECOMMENDED
REINF	=	REINFORCEMENT
REQ'D	=	REQUIRED
RF	=	REAR FACE
RT	=	RIGHT
SCHED	=	SCHEDULE
SHLDR	=	SHOULDER
SB	=	SOUTHBOUND
SE	=	SOUTHEAST
SW	=	SOUTHWEST
SPA	=	SPACE
STD	=	STANDARD
SR	=	STATE ROUTE
STA	=	STATION
ST	=	STREET
TEMP	=	TEMPORARY
TESPS	=	TEMPORARY EXCAVATION SUPPORT & PROTECTION SYSTEM
TYP	=	TYPICAL
V/VERT	=	VERTICAL
WING	=	WINGWALL
WP	=	WORK POINT



FAR MOMENT SLABS



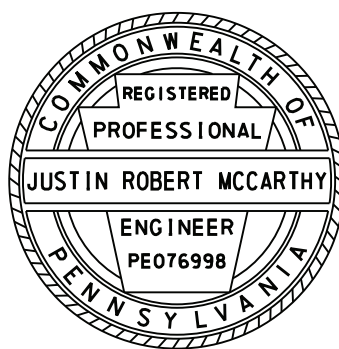
LEGEND

→	DIRECTION OF TRAFFIC
—200—	PROPOSED CONTOUR
—W—	PROPOSED WATER
—E/T/CTV—	PROPOSED ELECTRIC, TELEPHONE, CABLE/TELEVISION
---200---	EXISTING CONTOUR
---	LEGAL RIGHT-OF-WAY
—FO—	EXISTING FIBER OPTIC
—FOU—	EXISTING FIBER OPTIC UNDERGROUND
—E—	EXISTING ELECTRIC
—W—	EXISTING WATER
—T—	EXISTING TELEPHONE
—G—	EXISTING GAS
—CTV—	EXISTING CABLE/TELEVISION
—X—	EXISTING FENCE
—S—	EXISTING SANITARY SEWER

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

HNTB



REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
QUANTITIES	6
STAKE-OUT PLAN	13

PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB GENERAL PLANS

RECOMMENDED 12-6-2022

SHEET 2 OF 93

S-39451

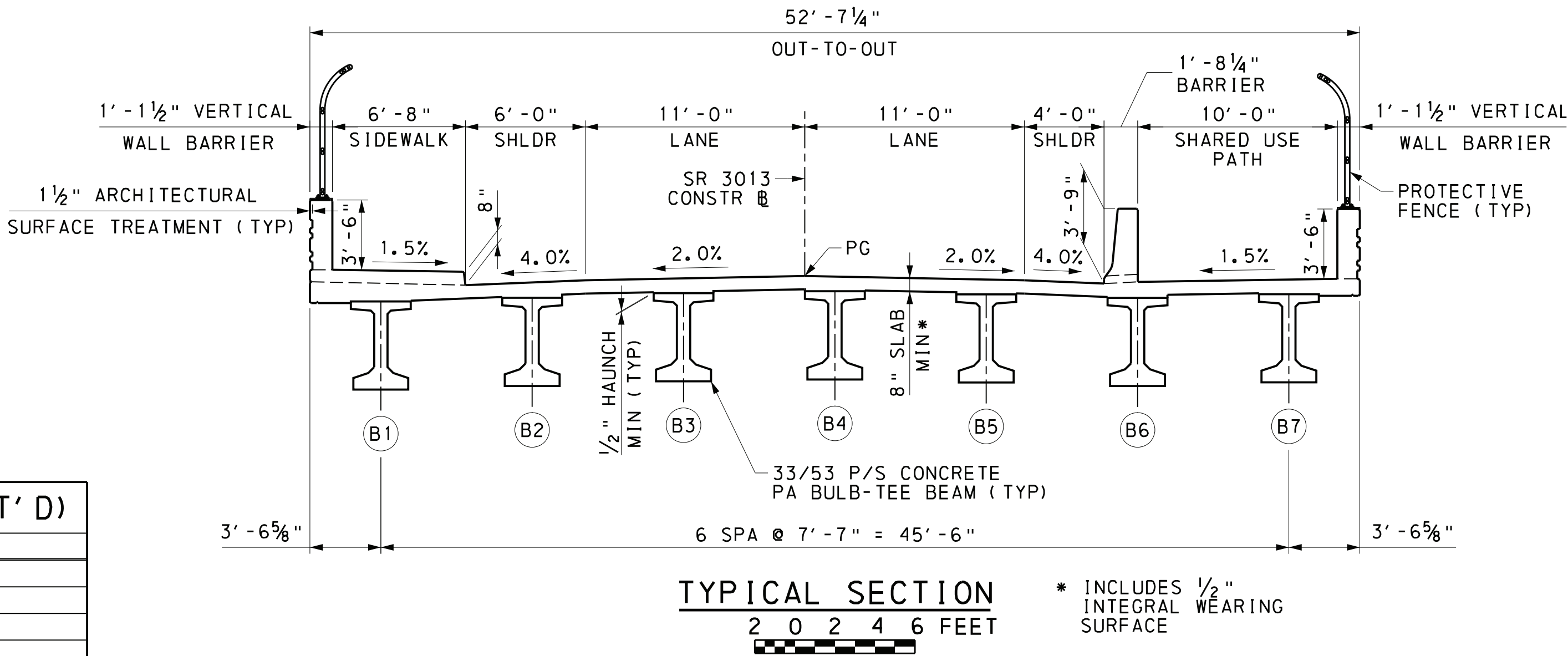
BRIDGE LOAD RATINGS WITHOUT FUTURE WEARING SURFACE								
ADT: 5,828 (2050); ADTT: 182 (2050) (ONE DIRECTIONAL)								
SPANS 1, 2 & 3		PA BULB-TEE BEAM, 33/53						
		H 20	HS 20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	0.715	0.715	0.715	0.715	0.687	-	-
	LOCATION	0.50 L	0.50 L	0.50 L	0.50 L	0.50 L	-	-
	LIMIT STATE	SERV-IIIIP	SERV-IIIIP	SERV-IIIIP	SERV-IIIIP	SERV-III	-	-
	RATING FACTOR	1.72M	1.42M	1.26M	1.24M	1.18M	-	-
	RESISTANCE	0.300 KSI	0.300 KSI	0.300 KSI	0.300 KSI	0.300 KSI	-	-
	SPAN # / BEAM #	2 / 2	2 / 2	2 / 2	2 / 2	2 / 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	0.718	0.785	0.785	0.785	0.718	0.785	0.785
	LOCATION	0.00 L	0.26 L	0.26 L	0.26 L	0.00 L	0.16 L	0.16 L
	LIMIT STATE	STR-II	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	2.89M	2.56V	2.35V	2.26V	1.69M	1.25V	1.16V
	RESISTANCE	-4,305 K-FT	274 KIPS	274 KIPS	274 KIPS	-4,305 K-FT	331 KIPS	331 KIPS
	SPAN # / BEAM #	3 / 2 & 6	3 / 2	3 / 2	3 / 2 & 6	3 / 2 & 6	3 / 2 & 6	3 / 2 & 6

CRITICAL MEMBER MAXIMUM FACTORED FLEXURAL RESISTANCE: 10,221.49 K-FT LOCATION: BEAM 1 (SPAN 2) , 50'-0"
CRITICAL MEMBER MAXIMUM FACTORED SHEAR RESISTANCE: 627.36 K LOCATION: BEAM 2 (SPAN 3) , 87'-3½"

- RATING NOTES:
- RATINGS BASED ON LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD.
 - DISTRIBUTION FACTORS ARE CORRESPONDING TO THE CONTROLLING LIMIT STATES.
 - DATA TAKEN FROM PENNDOT'S P/S CONCRETE GIRDER DESIGN AND RATING (PSLRFD) PROGRAM (v2.14.0.0)
 - FACTORED RESISTANCE TAKEN AT THE LOCATION OF THE CRITICAL MEMBER INDICATED.
 - M - MOMENT RATING FACTOR CONTROLS
V - SHEAR RATING FACTOR CONTROLS
 - RATINGS WITH FUTURE WEARING SURFACE INCLUDES SURFACE AREA DENSITY OF 30 LB/SF FOR FUTURE WEARING SURFACE.
 - PHL-93 = PENNSYLVANIA DESIGN VEHICULAR LIVE LOAD
ML-80 = PENNSYLVANIA MAXIMUM LEGAL LOAD
TK527 = PENNSYLVANIA LEGAL LOAD CONFIGURATION
P-82 = PENNSYLVANIA PERMIT LOAD
P2016-13 = PENNSYLVANIA PERMIT LOAD
 - FOR THE STR-IP LIMIT STATE, THE VEHICULAR LOAD DISTRIBUTION FACTOR ACCOUNTS FOR THE PRESENCE OF PEDESTRIAN LOADS.
 - FOR BEAM PROPERTIES USED FOR RATINGS, SEE SHEET 46.
 - ALL BEAMS DESIGNED AS SIMPLE SPAN FOR NON-COMPOSITE DEAD LOAD AND AS CONTINUOUS SPANS WITH SIMPLE SPAN CHECKS FOR COMPOSITE DEAD LOAD AND LIVE LOAD.

BRIDGE LOAD RATINGS WITH FUTURE WEARING SURFACE								
ADT: 5,828 (2050); ADTT: 182 (2050) (ONE DIRECTIONAL)								
SPANS 1, 2 & 3		PA BULB-TEE BEAM, 33/53						
		H 20	HS 20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	0.715	0.715	0.715	0.715	0.687	-	-
	LOCATION	0.50 L	0.50 L	0.50 L	0.50 L	0.50 L	-	-
	LIMIT STATE	SERV-IIIIP	SERV-IIIIP	SERV-IIIIP	SERV-IIIIP	SERV-III	-	-
	RATING FACTOR	1.48M	1.22M	1.09M	1.07M	1.03M	-	-
	RESISTANCE	0.300 KSI	0.300 KSI	0.300 KSI	0.300 KSI	0.300 KSI	-	-
	SPAN # / BEAM #	2 / 2	2 / 2	2 / 2	2 / 2	2 / 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	0.718	0.785	0.785	0.785	0.718	0.785	0.785
	LOCATION	0.00 L	0.26 L	0.26 L	0.26 L	0.00 L	0.16 L	0.16 L
	LIMIT STATE	STR-II	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	2.66M	2.41V	2.21V	2.13V	1.56M	1.18V	1.09V
	RESISTANCE	-4,305 K-FT	269 KIP	269 KIP	269 KIP	-4,305 K-FT	327 KIP	327 KIP
	SPAN # / BEAM #	3 / 2 & 6	3 / 2 & 6	3 / 2 & 6	3 / 2 & 6	3 / 2 & 6	3 / 6	3 / 2 & 6

CRITICAL MEMBER MAXIMUM FACTORED FLEXURAL RESISTANCE: 10,221.49 K-FT LOCATION: BEAM 1 (SPAN 2) , 50'-0"
CRITICAL MEMBER MAXIMUM FACTORED SHEAR RESISTANCE: 621.06 K LOCATION: BEAM 2 (SPAN 3) , 87'-3½"



INDEX OF DRAWINGS	
SHEET NO.	TITLE
1	GENERAL PLAN & ELEVATION
2	MOMENT SLAB GENERAL PLANS
3	TYPICAL SECTION & LOAD RATINGS
4	GENERAL NOTES 1
5	GENERAL NOTES 2
6	QUANTITIES
7	SUGGESTED DEMOLITION SEQUENCE 1
8	SUGGESTED DEMOLITION SEQUENCE 2
9	SUGGESTED DEMOLITION SEQUENCE 3
10	CONCEPTUAL ERECTION PLAN 1
11	CONCEPTUAL ERECTION PLAN 2
12	CONCEPTUAL ERECTION PLAN 3
13	STAKE-OUT PLAN
14	ABUTMENT 1 FOOTING PLAN
15	ABUTMENT 1 PLAN
16	ABUTMENT 1 ELEVATION
17	ABUTMENT 1 SECTION & DETAILS
18	WINGWALL A PLAN & ELEVATION
19	WINGWALL A SECTIONS
20	WINGWALL B PLAN & ELEVATION
21	WINGWALL B SECTIONS
22	ABUTMENT 1 REBAR SCHEDULE
23	ABUTMENT 2 FOOTING PLAN
24	ABUTMENT 2 PLAN
25	ABUTMENT 2 ELEVATION
26	ABUTMENT 2 SECTION & DETAILS
27	WINGWALL C PLAN & ELEVATION
28	WINGWALL C SECTIONS
29	WINGWALL D PLAN & ELEVATION
30	WINGWALL D SECTIONS
31	ABUTMENT 2 REBAR SCHEDULE
32	MISCELLANEOUS ABUTMENT DETAILS
33	ABUTMENT ARCHITECTURAL DETAILS
34	PIER 1 FOOTING PLAN
35	PIER 1 PLAN

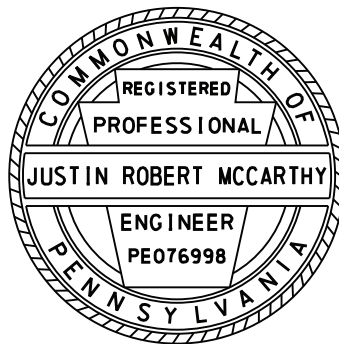
INDEX OF DRAWINGS (CONT'D)	
SHEET NO.	TITLE
36	PIER 1 ELEVATION & SECTION
37	PIER 1 DETAILS
38	PIER 2 FOOTING PLAN
39	PIER 2 PLAN
40	PIER 2 ELEVATION & SECTION
41	PIER 2 DETAILS
42	PIER 1 & 2 REBAR SCHEDULE
43	FRAMING PLAN
44	BEAM DETAILS 1
45	BEAM DETAILS 2
46	BEAM DETAILS 3
47	BEARING DETAILS
48	SLAB PLAN 1
49	SLAB PLAN 2
50	SLAB TYPICAL SECTION 1
51	SLAB TYPICAL SECTION 2
52	BARRIER & SIDEWALK DETAILS 1
53	BARRIER & SIDEWALK DETAILS 2
54	DIAPHRAGM DETAILS 1
55	DIAPHRAGM DETAILS 2
56	DIAPHRAGM DETAILS 3
57	SUPERSTRUCTURE REBAR SCHEDULE
58	DECK ELEVATIONS
59	SLEEPER SLAB PLANS
60	NEAR APPROACH SLAB PLAN
61	FAR APPROACH SLAB PLAN
62	APPROACH SLAB SECTIONS
63	APPROACH SLAB DETAILS 1
64	APPROACH SLAB DETAILS 2
65	APPROACH SLAB DETAILS 3
66	APPROACH SLAB REBAR SCHEDULE
67	MOMENT SLAB DETAILS 1
68	MOMENT SLAB DETAILS 2
69	MOMENT SLAB DETAILS 3
70	MOMENT SLAB DETAILS 4

INDEX OF DRAWINGS (CONT'D)	
SHEET NO.	TITLE
71	MOMENT SLAB DETAILS 5
72	MOMENT SLAB DETAILS 6
73	MOMENT SLAB DETAILS 7
74	MOMENT SLAB DETAILS 8
75	MOMENT SLAB DETAILS 9
76	MOMENT SLAB DETAILS 10
77	MOMENT SLAB DETAILS 11
78	MOMENT SLAB DETAILS 12
79	NEAR MOMENT SLABS REBAR SCHEDULE
80	FAR MOMENT SLABS REBAR SCHEDULE
81	BARRIER ARCHITECTURAL DETAILS 1
82	BARRIER ARCHITECTURAL DETAILS 2
83	PROTECTIVE FENCE DETAILS
84	FUTURE REDECKING PLAN
85	STANDPIPE DETAILS
86-93	STRUCTURE BORINGS

- REFERENCES:
- GENERAL PLAN
 - GENERAL NOTES

- SHEETS:
- 1
 - 4 & 5

HNTB



PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE TYPICAL SECTION & LOAD RATINGS	
RECOMMENDED 12-6-2022	SHEET 3 OF 93
S-39451	

GENERAL NOTES

DESIGN SPECIFICATIONS:

- 1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019.
- 2. LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM-4 DISTRIBUTION FACTORS.
- 3. DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

- 1. PHL-93, P-82 AND P2016-13
- 2. FATIGUE DESIGN IS BASED ON THE FOLLOWING:
PRESTRESSED CONCRETE: ADTT 182 (2050)(ONE-DIRECTIONAL)
- 3. MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE: $0.0948 \sqrt{(f'c)}$

DEAD LOADS:

- 1. INCLUDES SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
- 2. INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS THAT TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.

GENERAL:

- 1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2020, AASHTO/AWS D1.5M/D1.5: 2015 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.
- 2. PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- 3. USE CLASS AAAP CEMENT CONCRETE IN DECK SLAB AND TYPE 3 APPROACH SLABS.

USE CLASS AA CEMENT CONCRETE IN ALTERNATE SIDEWALK, BARRIERS, CONCRETE DIAPHRAGMS, ABUTMENT BACKWALLS, CHEEK WALLS, SHEAR BLOCKS, U-WINGS ABOVE BRIDGE SEAT CONSTRUCTION JOINT, SLEEPER SLABS, MOMENT SLABS, AND MOMENT SLAB TOE WALLS.

USE CLASS A CEMENT CONCRETE IN PIERS, ABUTMENTS BELOW BRIDGE SEAT, WINGWALLS, AND FOOTINGS.
- 4. A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT, IF APPROVED BY THE DISTRICT BRIDGE ENGINEER.
- 5. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE CHIEF BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE PIERS, ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
- 6. USE EPOXY-COATED REINFORCEMENT BARS EVERYWHERE.
- 7. GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 8. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
- 9. CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
- 10. PLACE CHEEKWALL, CONCRETE SHEAR BLOCKS, AND BACKWALL CONCRETE AFTER BEAMS ARE SET IN POSITION.
- 11. CHAMFER EXPOSED CONCRETE EDGES $\frac{3}{4}$ " BY $\frac{3}{4}$ ", EXCEPT AS NOTED.
- 12. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- 13. USE PERMANENT METAL FORMS TO CONSTRUCT THE DECK SLAB.
- 14. DECK SLAB THICKNESS INCLUDES A $\frac{1}{2}$ " INTEGRAL WEARING SURFACE.
- 15. SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68°F.
- 16. PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.
- 17. PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k)9.
- 18. BRIDGE IS NOT WEIGHT RESTRICTED. SEE PUBLICATION 408 SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.
- 19. PROVIDE A MINIMUM WIDTH OF $2\frac{1}{2}$ " AT 68°F FOR STRIP SEAL INSTALLATIONS UNLESS OTHERWISE INDICATED.
- 20. DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.
- 21. DO NOT USE ADHESIVE ANCHORS IN A SUSTAINED TENSION APPLICATION FOR TEMPORARY INSTALLATIONS, INCLUDING DURING CONSTRUCTION.
- 22. LABORATORY ANALYSIS OF SAMPLES FROM ELEMENTS OF THE ROADWAY SIGN ATTACHED TO THE WEST PARAPET OF THE EXISTING STRUCTURE (S-2387) INDICATED THE PRESENCE OF LEAD-BASED PAINT. PRESUMED ASBESTOS CONTAINING MATERIAL WAS OBSERVED AT CAULKING MATERIAL AND AT UTILITIES ATTACHED TO THE EXISTING STRUCTURE (S-9870). REFER TO THE ASBESTOS CONTAINING MATERIAL AND LEAD-BASED PAINT INSPECTION REPORT AND SPECIAL PROVISION.

EXISTING STRUCTURE PLANS:

- 1. DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURES SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE DEPARTMENT OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.
- 2. THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGES ARE NOT PART OF THE PLANS, PROPOSAL OR CONTRACT AND IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED. SEE S-2387 (MARCH 17, 1959) AND S-9870 (AUGUST 27, 1970) PLAN SHEETS FOR EXISTING STRUCTURE INFORMATION.
- 3. REMOVE EXISTING BRIDGES IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS AND SPECIAL PROVISIONS.

UTILITY NOTES:

- 1. COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.

FOUNDATION NOTES:

- 1. FOUNDATIONS MAY BE ORDERED BY THE REPRESENTATIVE AND DISTRICT GEOTECHNICAL SPECIALIST TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DRAINAGE DURING CONSTRUCTION. DIRECT RUNOFF AWAY FROM THE PROPOSED FOUNDATION FOOTPRINT.
- 3. CONSIDER THE SOIL ENVIRONMENT AS POTENTIALLY CORROSIVE, EPOXY COAT ALL REINFORCEMENT BARS.
- 4. PRIOR TO FOOTING CONSTRUCTION, ALLOW THE DISTRICT GEOTECHNICAL SPECIALIST TO INSPECT THE BOTTOM OF FOOTING EXCAVATION. AS DIRECTED, EXCAVATE SOFT OR UNSUITABLE MATERIAL BELOW THE BOTTOM OF FOOTING ELEVATION AND REPLACE WITH STRUCTURAL FILL.
- 5. AT ABUTMENT 1 AND ASSOCIATED WINGWALLS, OVER-EXCAVATE TO TOP OF ROCK AND BACKFILL TO THE BOTTOM OF FOOTING ELEVATION WITH STRUCTURAL FILL IN ACCORDANCE WITH OVEREXCAVATION AND BACKFILL WITH STRUCTURAL FILL SPECIAL PROVISION.
- 6. AT PIER 1 AND PIER 2, IF BEDROCK IS NOT ENCOUNTERED AT THE BOTTOM OF FOOTING ELEVATION, OVER-EXCAVATE TO TOP OF ROCK AND BACKFILL WITH CLASS C CEMENT CONCRETE TO THE BOTTOM OF FOOTING ELEVATION IN ACCORDANCE WITH OVEREXCAVATION AND BACKFILL WITH CLASS C CEMENT CONCRETE SPECIAL PROVISION.
- 7. AT ABUTMENT 2 AND ASSOCIATED WINGWALLS, OVER-EXCAVATE TWO FEET AND PERFORM SPECIAL ROLLING WITHIN THE FOUNDATION FOOTPRINT PER PUBLICATION 408, SECTION 208. WHERE UNSUITABLE AND/OR UNSTABLE MATERIALS ARE IDENTIFIED, PERFORM ADDITIONAL OVER-EXCAVATION TO COMPETENT MATERIAL AND BACKFILL TO THE BOTTOM OF FOOTING ELEVATION WITH STRUCTURAL FILL IN ACCORDANCE WITH OVEREXCAVATION AND BACKFILL WITH STRUCTURAL FILL SPECIAL PROVISION.
- 8. EXCAVATE ACCORDING TO CURRENT OSHA OR OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE STABILITY OF THE EXCAVATIONS.
- 9. SITE CLASS IS NOT CLASS E OR F.

ARCHITECTURAL DETAIL NOTES:

- 1. PROVIDE FORMWORK TO CREATE THE RELIEF DETAILS ON THE OUTSIDE FACES OF BARRIERS AS INDICATED ON SHEETS 81 AND 82. THIS FORMWORK IS INCIDENTAL TO THE BARRIER CONCRETE.
- 2. PROVIDE FORMWORK TO CREATE AN EMBEDDED KEYSTONE PATTERN ON THE ENDS OF THE PIERS AS INDICATED ON SHEET 37. THIS FORMWORK IS INCIDENTAL TO THE PIER CONCRETE.
- 3. APPLY AN ARCHITECTURAL SURFACE TREATMENT (FORMLINER) TO THE FRONT FACE OF ABUTMENTS, EXPOSED FACES OF WINGWALLS, AND FRONT FACES OF CHEEKWALLS AT THE ABUTMENTS AS INDICATED ON SHEET 33 AND IN ACCORDANCE WITH SPECIAL PROVISION - ARCHITECTURAL SURFACE TREATMENT, $\frac{1}{2}$ " RELIEF, SPLIT BLOCK, 14"x22".
- 4. APPLY STAIN TO CONCRETE SURFACES TO THE LIMITS INDICATED AND IN ACCORDANCE WITH SPECIAL PROVISION - STAINING OF REINFORCED CONCRETE SURFACES. USE THE FOLLOWING COLORS:

AREAS OF ARCHITECTURAL SURFACE TREATMENT, SPLIT BLOCK, 14"x22"

BASE COLOR OF ENTIRE SURFACE AREA:
FEDERAL COLOR #30372, BEIGE-SAND

ACCENT BLOCK COLORS (THE NUMBER OF BLOCKS TO HAVE THE TWO ACCENT COLORS SHOULD EACH BE 4% OF THE TOTAL BLOCK SURFACE AREA, EACH ACCENT BLOCK SHOULD BE COMPLETELY COLORED):
FEDERAL COLOR #30219, COCOA-TAN
FEDERAL COLOR #30166, REDDISH-BROWN

GROUT LINES:
FEDERAL COLOR #26492, OFF-WHITE

OTHER CONCRETE SURFACES

BARRIER RECTANGULAR BLOCKS:
FEDERAL COLOR #24272, GREEN

KEYSTONE AT PIER ENDS:
FEDERAL COLOR #24272, GREEN

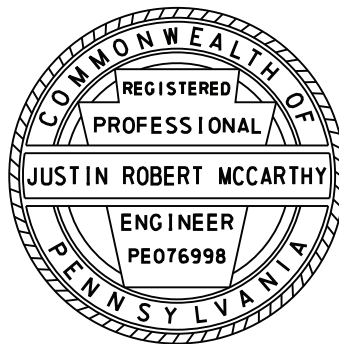
- 5. BRIDGE BARRIER, SIDEWALK, BEAMS, AND PIERS TO BE NATURAL COLOR, EXCEPT FOR AREAS INDICATED ABOVE.
- 6. PROVIDE A MODIFIED PROTECTIVE FENCE AS INDICATED ON SHEET 83 AND IN ACCORDANCE WITH SPECIAL PROVISION - RAILROAD PROTECTIVE FENCE, CURVED TOP, VINYL-COATED STEEL, BLACK.
FEDERAL COLOR #37031, BLACK

* AS SUPPLEMENTED BY ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS"

CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	06/01/10
BACKFILL AT STRUCTURES	RC-12M	02/08/19
CONCRETE PAVEMENT JOINTS	RC-20M	11/30/21
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	02/19/21
PROTECTIVE FENCE	BC-701M	02/19/21
ELECTRICAL DETAILS	BC-721M	02/19/21
PERMANENT METAL DECK FORMS	BC-732M	01/31/19
ANCHOR SYSTEMS	BC-734M	02/19/21
WALL CONSTRUCTION AND EXPANSION JOINT DETAILS	BC-735M	09/30/16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	01/31/19
BRIDGE DRAINAGE	BC-751M	01/31/19
CONCRETE DECK SLAB DETAILS	BC-752M	02/19/21
BEARINGS	BC-755M	01/31/19
PREFORMED NEOPRENE COMPRESSION SEAL JOINT FOR APPROACH SLABS	BC-766M	01/31/19
NEOPRENE STRIP SEAL DAM FOR PRESTRESSED CONCRETE & STEEL I-BEAM BRIDGES	BC-767M	02/19/21
PRESTRESSED CONCRETE BEAM BRACING	BC-772M	09/30/16
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	09/30/16
TYPICAL WATERPROOFING AND EXPANSION DETAILS *	BC-788M	01/31/19
DESCRIPTION	DWG. NO.	REC. DATE

SUPPLEMENTAL DRAWINGS

HNTB



PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

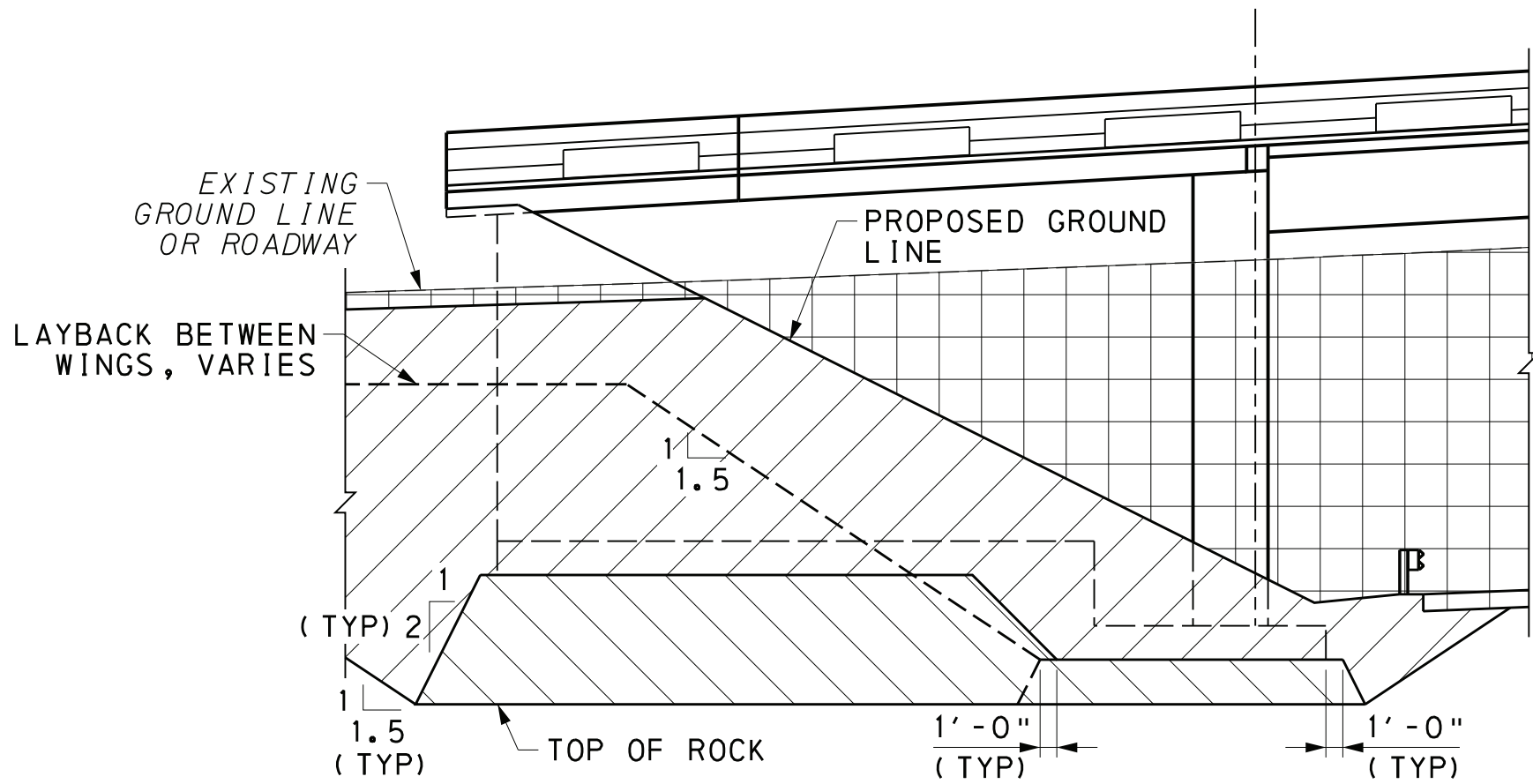
DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
GENERAL NOTES 1

RECOMMENDED	12-6-2022	SHEET 4 OF 93
		S-39451

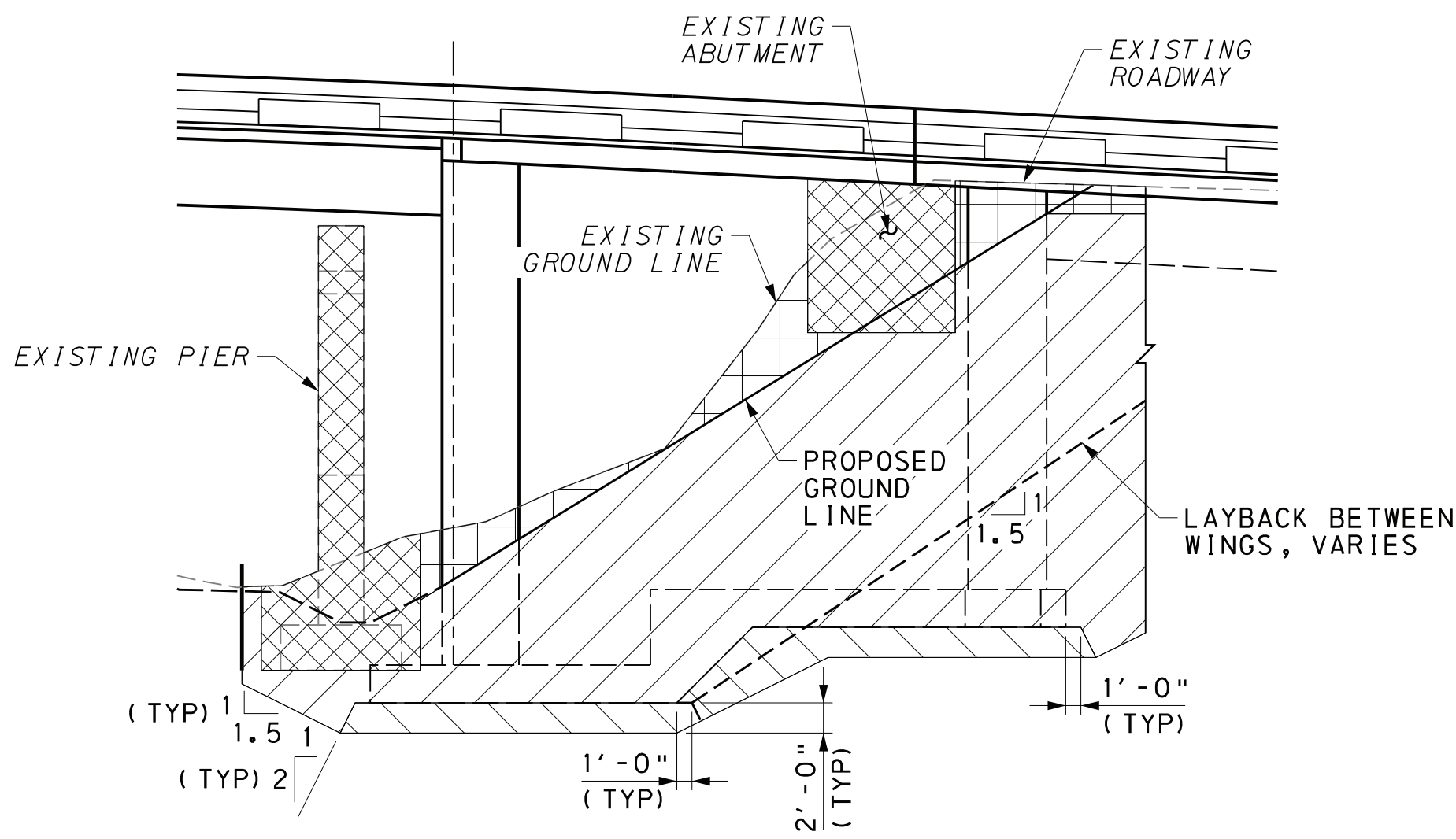
GENERAL NOTES

RAILROAD NOTES:

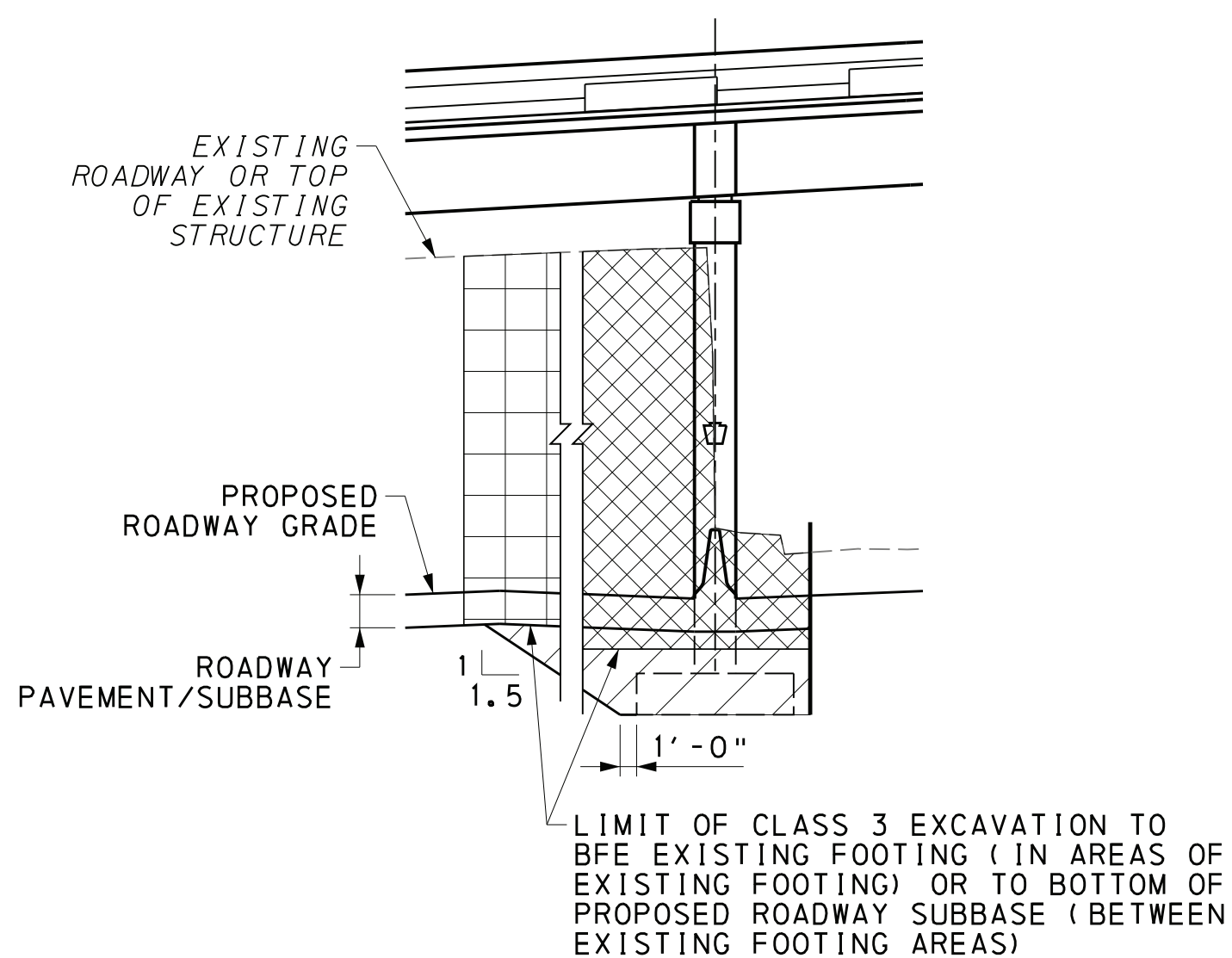
- ALL WORK TO BE PERFORMED ON, OVER, UNDER, OR ADJACENT TO THE RAILROAD RIGHT-OF-WAY SHALL COMPLY WITH THE NORFOLK SOUTHERN RAILWAY COMPANY ("RAILROAD", "NSR" OR "NS") PUBLIC PROJECTS MANUAL (APPENDIX E, SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS, AND APPENDIX H), OVERHEAD GRADE SEPARATION DESIGN CRITERIA). WHEN IN CONFLICT WITH OTHER PROJECT SPECIFICATIONS, THE MOST STRINGENT ONE SHALL APPLY.
- "ONE CALL" SERVICES DO NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATIONS LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE 2 DAYS IN ADVANCE OF WORK AT THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE THE RAILROAD'S UNDERGROUND FACILITIES. UPON REQUEST FROM THE CONTRACTOR OR SPONSOR, RAILROAD FORCES WILL LOCATE AND PAINT MARK OR FLAG THE RAILROAD'S UNDERGROUND FACILITIES. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE FACILITIES. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD FACILITY, THE CONTRACTOR SHALL COORDINATE WITH THE RAILROAD TO HAVE THE FACILITY POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION. THE FACILITY SHALL BE PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF THE RAILROAD'S REPRESENTATIVE. (SEE NS PUBLIC PROJECTS MANUAL, APPENDIX E, SECTION 3.D).
- ALL UTILITY INSTALLATIONS OR RELOCATIONS THAT ARE REQUIRED IN CONJUNCTION WITH THIS PROJECT CAN BE INSTALLED OR RELOCATED AS PART OF THE PROJECT PROVIDED THE CONSTRUCTION IS PERFORMED BY THE PROJECT CONTRACTOR OR PROJECT CONTRACTOR'S SUB-CONTRACTOR. HOWEVER, THE UTILITY MUST SUBMIT AN APPLICATION FOR THE INSTALLATION OR RELOCATION TO AECOM FOR APPROPRIATE HANDLING FOR LICENSE AGREEMENT AND APPLICABLE FEES. FOR UTILITY APPLICATIONS GO TO: WWW.NSCORP.COM > REAL ESTATE > NS SERVICES > WIRE, PIPELINE, & FIBER OPTIC PROJECTS > AECOM. NOTE: LICENSE AGREEMENT MUST BE EXECUTED PRIOR TO UTILITY BEING INSTALLED OR RELOCATED.
- THE CONTRACTOR SHALL NOT COMMENCE ANY WORK ON RAILROAD RIGHTS-OF-WAY UNTIL THEY HAVE COMPLIED WITH THE CONDITIONS PRESENTED IN NS PUBLIC PROJECTS MANUAL (SEE APPENDIX E, NORFOLK SOUTHERN - SPECIAL PROVISIONS FOR PROTECTION OF RAILWAY INTERESTS).
- THE CONTRACTOR SHALL SO ARRANGE AND CONDUCT THEIR WORK SUCH THAT THERE WILL BE NO INTERFERENCE WITH THE RAILROAD'S OPERATIONS. WHENEVER WORK IS LIABLE TO AFFECT THE OPERATIONS OR SAFETY OF TRAINS, THE METHODS OF DOING SUCH WORK SHALL FIRST BE SUBMITTED TO THE RAILROAD ENGINEER FOR APPROVAL, BUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM ANY LIABILITY.
- MATERIALS AND EQUIPMENT SHALL NOT BE STORED WHERE THEY WILL INTERFERE WITH RAILROAD OPERATIONS, NOR ON THE RIGHTS-OF-WAY OF THE RAILROAD WITHOUT FIRST HAVING OBTAINED PERMISSION FROM THE RAILROAD ENGINEER, AND SUCH PERMISSION WILL BE WITH THE UNDERSTANDING THAT THE RAILROAD WILL NOT BE LIABLE FOR DAMAGE TO SUCH MATERIAL AND EQUIPMENT FROM ANY CAUSE AND THAT THE RAILROAD ENGINEER MAY MOVE OR REQUIRE THE CONTRACTOR TO MOVE, AT THE CONTRACTOR'S EXPENSE, SUCH MATERIAL AND EQUIPMENT. (SEE NS PUBLIC PROJECTS MANUAL, APPENDIX E, SECTION 5K).
- SUPPORT OF EXCAVATION AND EXISTING SUBSTRUCTURE TO REMAIN ARE TO BE CUT OFF AT LEAST 2 FEET BELOW PROPOSED GRADE. (SEE NS PUBLIC PROJECTS MANUAL, APPENDIX E5, SECTION D7, AND APPENDIX H1, SECTION 5H).
- PROVIDE NO. 3 COARSE AGGREGATE FOR THE TOP 2 FEET OF ANY BACKFILL WITHIN 20 FEET OF CENTERLINE OF EXISTING TRACK.
- THE RAILROAD WILL BE PROVIDED AS-BUILT DRAWINGS SHOWING THE ACTUAL CLEARANCES AS CONSTRUCTED. DEPTH, SIZE, AND LOCATION OF ALL FOUNDATION COMPONENTS SHALL BE SHOWN ON THE DRAWINGS. (SEE NS PUBLIC PROJECTS MANUAL, APPENDIX H1, SECTION 8A).
- FOR PROJECTS REQUIRING MORE THAN 30 CONSECUTIVE DAYS OF FLAGGING, THE CONTRACTOR SHALL PROVIDE THE FLAGMAN A SMALL WORK AREA WITH A DESK/COUNTER AND CHAIR WITHIN THE FIELD/SITE TRAILER, INCLUDING THE USE OF BATHROOM FACILITIES, WHERE THE FLAGMAN CAN CHECK IN/OUT WITH THE PROJECT, AS WELL AS TO THE FLAGMAN'S HOME TERMINAL. THE WORK AREA SHOULD PROVIDE ACCESS TO TWO (2) ELECTRICAL OUTLETS FOR RECHARGING RADIO(S), AND A LAPTOP COMPUTER; AND HAVE THE ABILITY TO PRINT OFF NEEDED DOCUMENTATION AND ORDERS AS NEEDED AT THE FIELD/SITE TRAILER. THIS SHOULD AID IN MAXIMIZING THE FLAGMAN'S TIME AND EFFICIENCY ON THE PROJECT.
- THE PROPOSED PROJECT WILL NOT CHANGE THE QUANTITY AND/OR CHARACTER OF FLOW IN THE RAILWAY'S DITCHES AND/OR DRAINAGE STRUCTURES.
- NORFOLK SOUTHERN HAS 54 TRAINS PER DAY AT 40 MPH.
- CONTACT INFORMATION FOR THE RAILROAD IS AS FOLLOWS:
MR. D. SHAWN STARLING, PE
SENIOR ENGINEER PUBLIC IMPROVEMENTS
ENGINEERING - DESIGN & CONSTRUCTION
NORFOLK SOUTHERN RAILWAY COMPANY
650 WEST PEACHTREE STREET NW - BOX 45
ATLANTA, GA 30308
TELEPHONE: (470) 463-6721
EMAIL: DOUGLAS.STARLING@NSCORP.COM



LIMITS OF EXCAVATION AT
ABUTMENT 1 AND WINGS A & B
NOT TO SCALE



LIMITS OF EXCAVATION AT
ABUTMENT 2 AND WINGS C & D
NOT TO SCALE



LIMITS OF EXCAVATION AT PIERS
(PIER 1 SHOWN, PIER 2 SIMILAR)
NOT TO SCALE

LEGEND

- OVEREXCAVATION AND BACKFILL WITH STRUCTURAL FILL
- CLASS 3 EXCAVATION
- CLASS 1 EXCAVATION
- REMOVAL OF EXISTING STRUCTURE

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
GENERAL NOTES 2

RECOMMENDED 12-6-2022

SHEET 5 OF 93

S-39451

MOMENT SLAB NOTES:

- CONTRACTOR IS PERMITTED TO PROVIDE A PRECAST BARRIER IN PLACE OF THE CAST-IN-PLACE BARRIER. CONTRACTOR MUST SUBMIT SHOP DRAWINGS FOR REVIEW AND ACCEPTANCE IN ACCORDANCE WITH PUBLICATION 408. THE SHOP DRAWINGS MUST COMPLETELY DETAIL THE ENTIRE MOMENT SLAB AND BARRIER ALONG WITH THE REQUIRED LENGTH.

CONTRACTOR IS RESPONSIBLE FOR LIFTING, HANDLING, AND TRANSPORTATION STRESSES.

CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING DESIGN CALCULATIONS AND DETAILS.

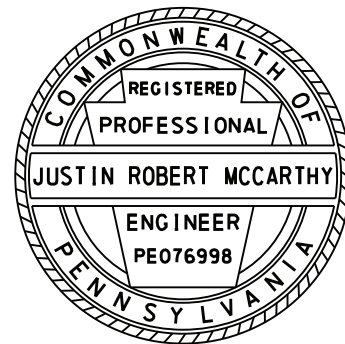
LIFTING INSERTS:

PROVIDE GALVANIZED LIFTING INSERTS.

PROVIDE LIFTING INSERTS WITH A MINIMUM CAPACITY OF AT LEAST TWO TIMES THE CALCULATED LOAD ON THE INSERT.

PROVIDE A MINIMUM OF TWO LIFTING INSERTS PER BARRIER SECTION.

HNTB

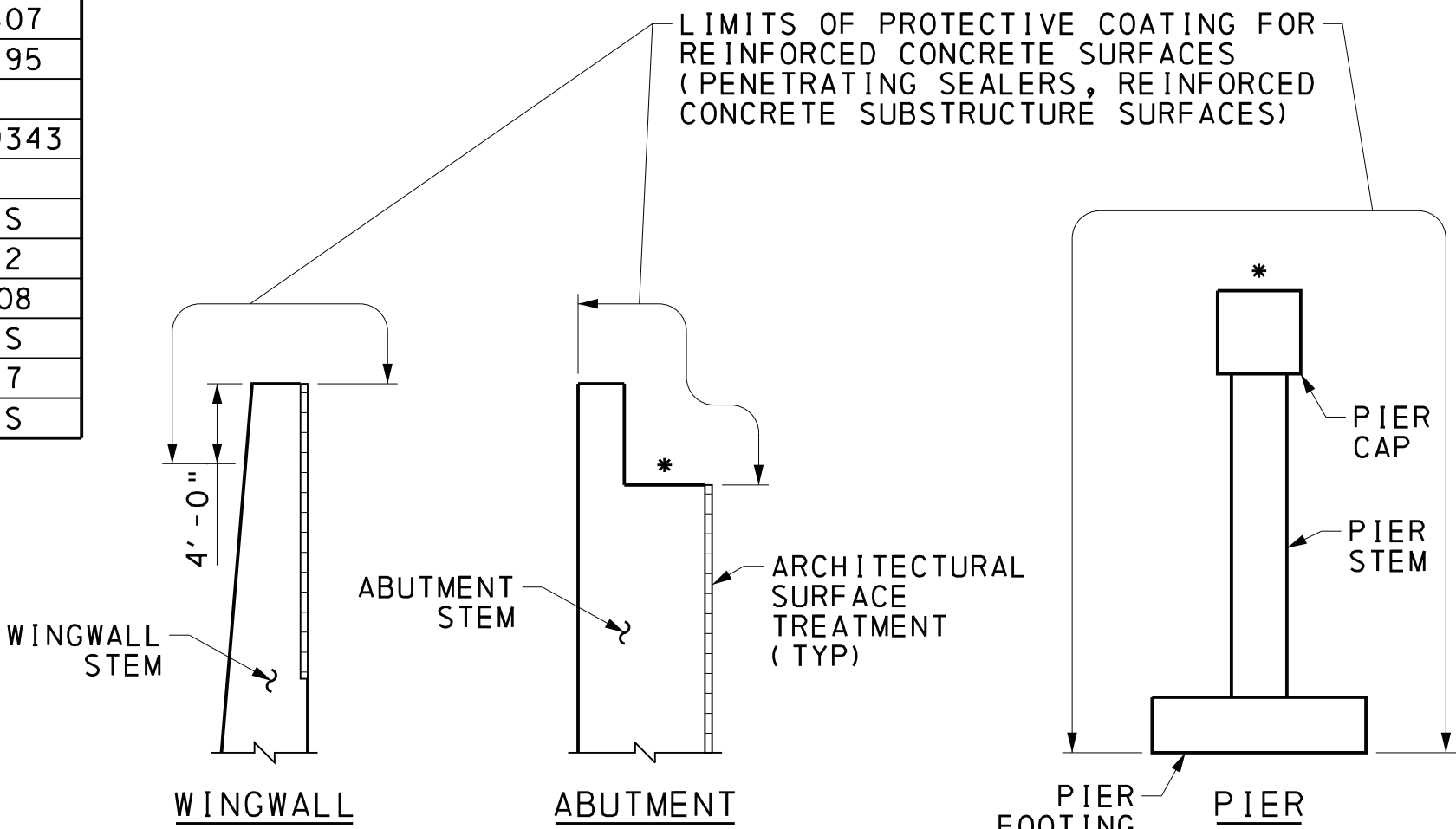


PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE , AS DESIGNED												
ITEM NUMBER	DESCRIPTION	UNIT	NEAR MOMENT SLABS	NEAR APPR SLAB	ABUT 1	PIER 1	PIER 2	ABUT 2	FAR APPR SLAB	FAR MOMENT SLABS	SUPER STRUCTURE	TOTAL
8030-0001	BRIDGE STRUCTURE , AS DESIGNED , S-39451	(2)	LS	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	LS
(1)	CLASS 3 EXCAVATION	(8)	CY	- - -	- - -	4900	160	1200	4900	- - -	- - -	11160
(1)	STRUCTURE BACKFILL		CY	- - -	- - -	1583	- - -	- - -	1942	- - -	- - -	3525
(1)	ELASTOMER WATERPROOFING MEMBRANE ON OTHER SURFACES	(2) (9)	SY	- - -	- - -	76	24	24	89	- - -	- - -	213
(1)	NO. 57 COARSE AGGREGATE	(3)	CY	- - -	- - -	19	- - -	- - -	18	- - -	- - -	37
(1)	NO. 3 COARSE AGGREGATE		CY	- - -	- - -	- - -	- - -	50	73	- - -	- - -	123
(1)	JUNCTION BOXES J.B.-25		EA	2	- - -	- - -	- - -	- - -	- - -	1	1	4
(1)	1/2" CONDUIT IN STRUCTURE	(2)	LF	17	60	- - -	- - -	- - -	- - -	60	244	967
(1)	1-1/4" CONDUIT IN STRUCTURE		LF	- - -	- - -	- - -	- - -	- - -	- - -	- - -	70	70
(1)	2" CONDUIT IN STRUCTURE		LF	12	30	9	- - -	- - -	- - -	30	51	425
(1)	6" STRUCTURE FOUNDATION DRAIN		LF	- - -	- - -	135	- - -	- - -	131	- - -	- - -	266
(1)	MECHANICAL TEXTURING WITH LONGITUDINAL SAWED GROOVES		SY	- - -	100	- - -	- - -	- - -	- - -	100	- - -	977
(1)	CLASS AAAP CEMENT CONCRETE	(7)	CY	- - -	95	- - -	- - -	- - -	- - -	95	- - -	704
(1)	CLASS AA CEMENT CONCRETE		CY	155	29	12	1	1	13	29	316	820
(1)	CLASS A CEMENT CONCRETE		CY	- - -	- - -	419	172	196	644	- - -	- - -	1431
(1)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, REINFORCED CONCRETE SUBSTRUCTURE SURFACES)		SY	- - -	- - -	88	408	469	83	- - -	- - -	1048
(1)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)		SY	152	224	- - -	- - -	- - -	- - -	224	611	3401
(1)	NEOPRENE STRIP SEAL DAM (4" MOVEMENT)		LF	- - -	68	- - -	- - -	- - -	- - -	68	- - -	136
(1)	PRESTRESSED CONCRETE PA BULB-TEE BEAMS, 33/53	(5)	LF	- - -	- - -	- - -	- - -	- - -	- - -	- - -	2050	2050
(1)	RAILROAD PROTECTIVE FENCE, CURVED TOP, VINYL-COATED STEEL , BLACK	(2)	LF	24	60	- - -	- - -	- - -	- - -	60	254	985
(1)	BARRIER LUMINAIRE	(2)	EA	1	6	- - -	- - -	- - -	- - -	6	28	99
(1)	STAINING OF REINFORCED CONCRETE SURFACES	(2)	SF	5	19	2328	5	5	3167	19	77	182
(1)	ARCHITECTURAL SURFACE TREATMENT , 1/2" RELIEF , SPLIT BLOCK , 14"x22" AND	(2)	SF	- - -	- - -	2328	- - -	- - -	3167	- - -	- - -	5495
1002-0052	REINFORCEMENT BARS , EPOXY COATED	(4) (6)	LB	21011	27184	39738	18572	26318	75704	27184	45363	218269
												499343
1018-0001	REMOVAL OF EXISTING BRIDGE , S-39451	(2)	LS	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	LS
9000-0500	OVEREXCAVATION AND BACKFILL WITH CLASS C CEMENT CONCRETE , S-39451	(2)	CY	- - -	- - -	- - -	21	21	- - -	- - -	- - -	42
9000-0501	OVEREXCAVATION AND BACKFILL WITH STRUCTURAL FILL , S-39451	(2)	CY	- - -	- - -	710	- - -	- - -	198	- - -	- - -	908
9000-0507	STANDPIPE , S-39451	(2)	LS	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	LS
9000-0509	EXTRACT EXISTING STEEL BEARING PILES	(2)	EA	- - -	- - -	- - -	- - -	- - -	17	- - -	- - -	17
9203-0101	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM , S-39451	(2)	LS	- - -	- - -	- - -	- - -	- - -	- - -	- - -	- - -	LS

- (1) ITEMS IN BRIDGE STRUCTURE LUMP SUM ITEM 8030-0001 - GIVEN FOR INFORMATION ONLY.
- (2) SEE SPECIAL PROVISIONS.
- (3) GEOTEXTILE, CLASS 1 IS INCIDENTAL TO NO. 57 COARSE AGGREGATE.
- (4) FOR AS DESIGNED STRUCTURE. FOR ALTERNATE DESIGNS INCLUDE IN BRIDGE STRUCTURE LUMP SUM BID ITEM.
- (5) INCLUDES P/S CONCRETE PA BULB-TEE BEAMS DELIVERED AND SET IN PLACE WITH NEOPRENE BEARING PADS, DOWEL HOLES, GROUT, PREFORMED CELLULAR POLYSTYRENE, NEOPRENE PADS, THE WATERPROOFING SYSTEM AS PER BC-788M, AND ALL OTHER MATERIAL AND WORK FOR A COMPLETE INSTALLATION.
- (6) INCLUDES 449 LBS OF STAINLESS STEEL DOWEL BARS.
- (7) INCLUDES 25 CY OF CLASS AAAP CONCRETE IN THE VALLEYS OF SIP FORMS.
- (8) FOR EXCAVATION PAY LIMITS, SEE SHEET 5.
- (9) SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".

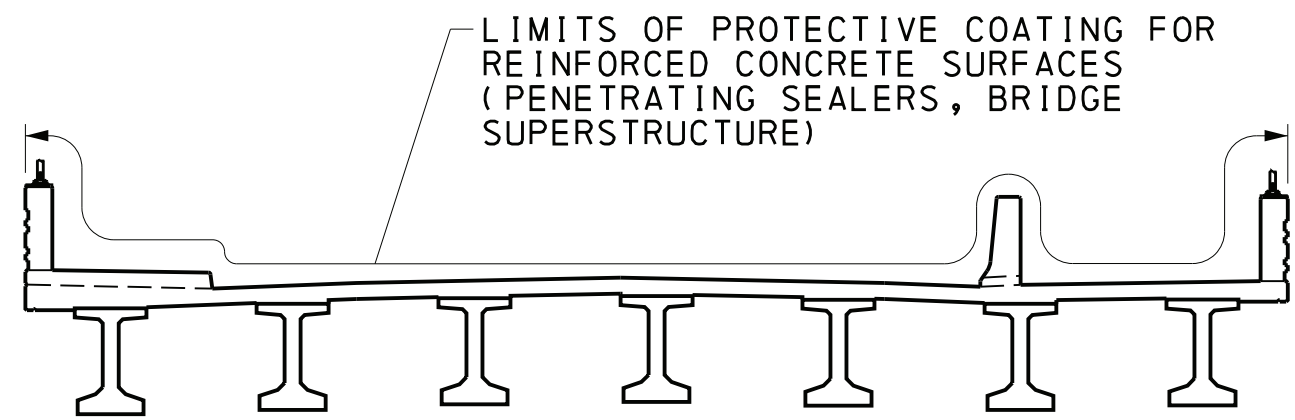
ALTERNATE STRUCTURE ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	TOTAL	
8030-0001	BRIDGE STRUCTURE , AS DESIGNED , S-39451	(2)	LS	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE	(2)	LS	LUMP SUM
8100-0001	STEEL BRIDGE STRUCTURE	(2)	LS	LUMP SUM



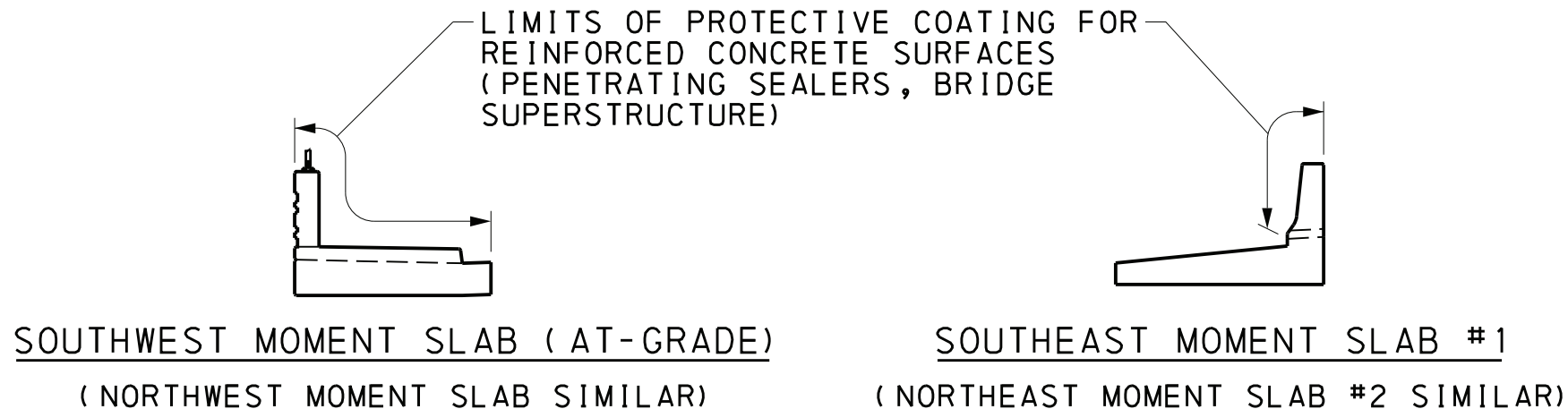
* DO NOT APPLY PROTECTIVE COATING WITHIN 2" OF BEARING PADS

SUBSTRUCTURE PROTECTIVE COATING LIMITS

NOT TO SCALE

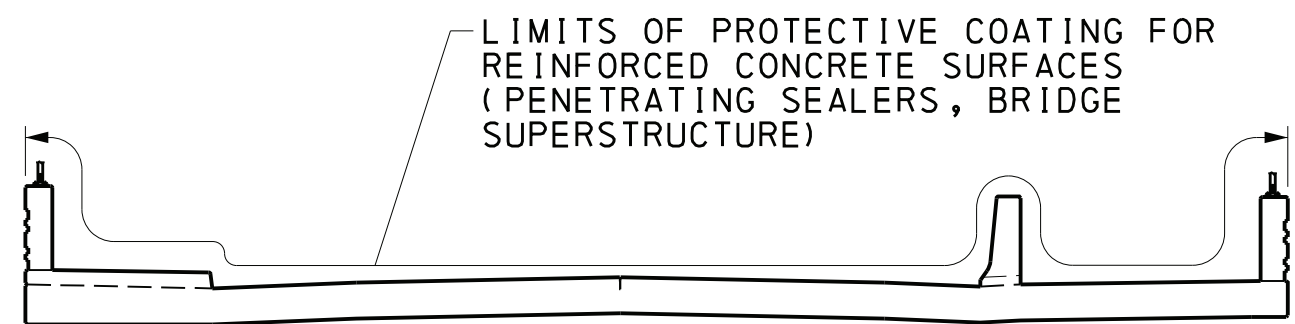


SUPERSTRUCTURE

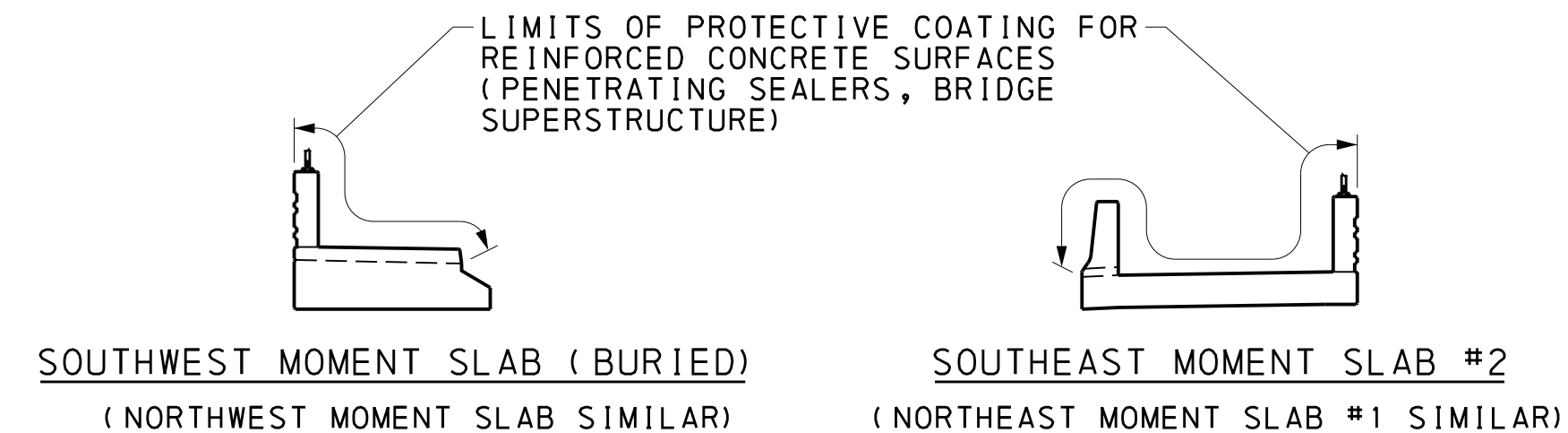


SOUTHWEST MOMENT SLAB (AT-GRADE)
(NORTHWEST MOMENT SLAB SIMILAR)

SOUTHEAST MOMENT SLAB #1
(NORTHEAST MOMENT SLAB #2 SIMILAR)



APPROACH SLABS



SOUTHWEST MOMENT SLAB (BURIED)
(NORTHWEST MOMENT SLAB SIMILAR)

SOUTHEAST MOMENT SLAB #2
(NORTHEAST MOMENT SLAB #1 SIMILAR)

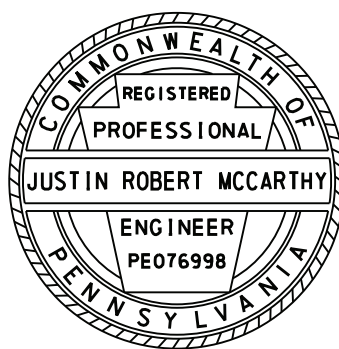
SUPERSTRUCTURE PROTECTIVE COATING LIMITS

NOT TO SCALE

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
QUANTITIES

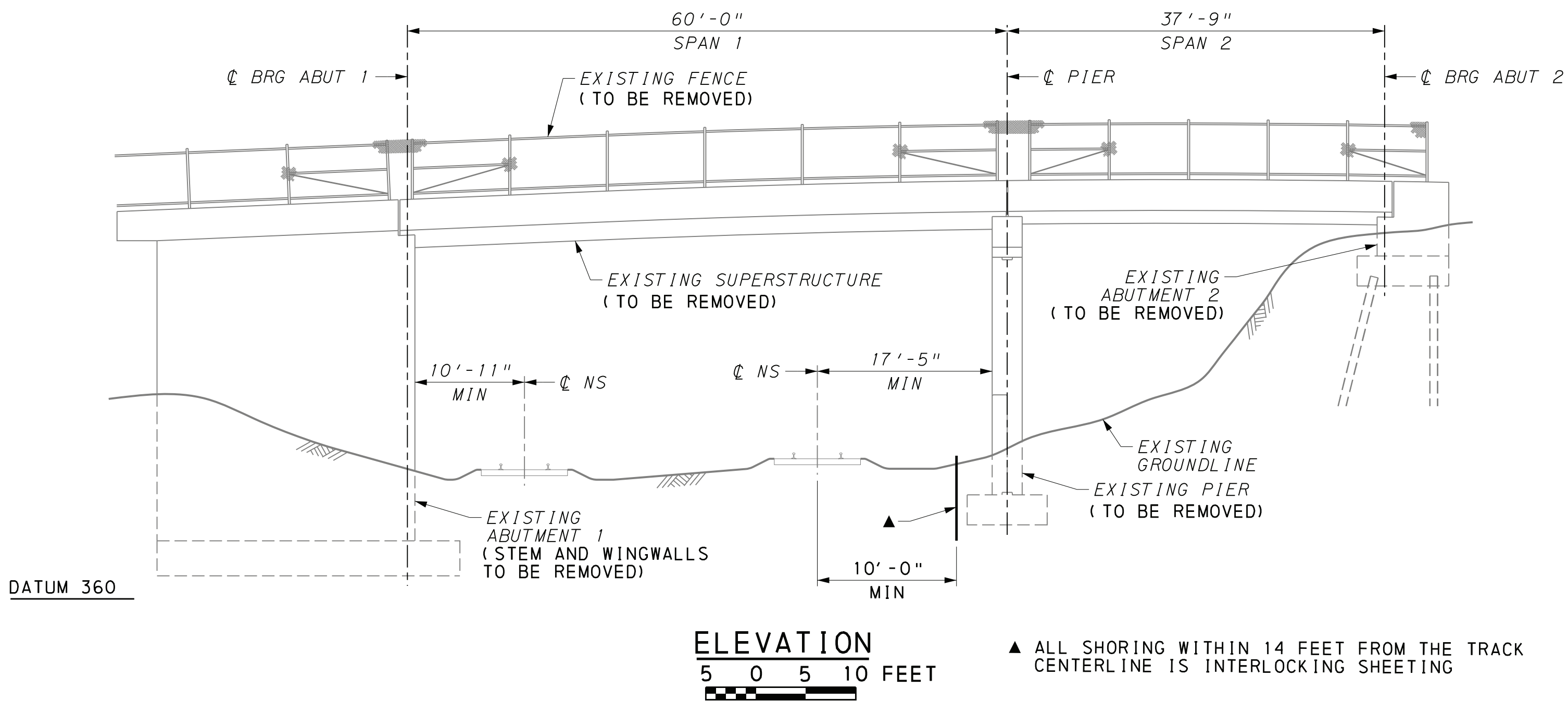
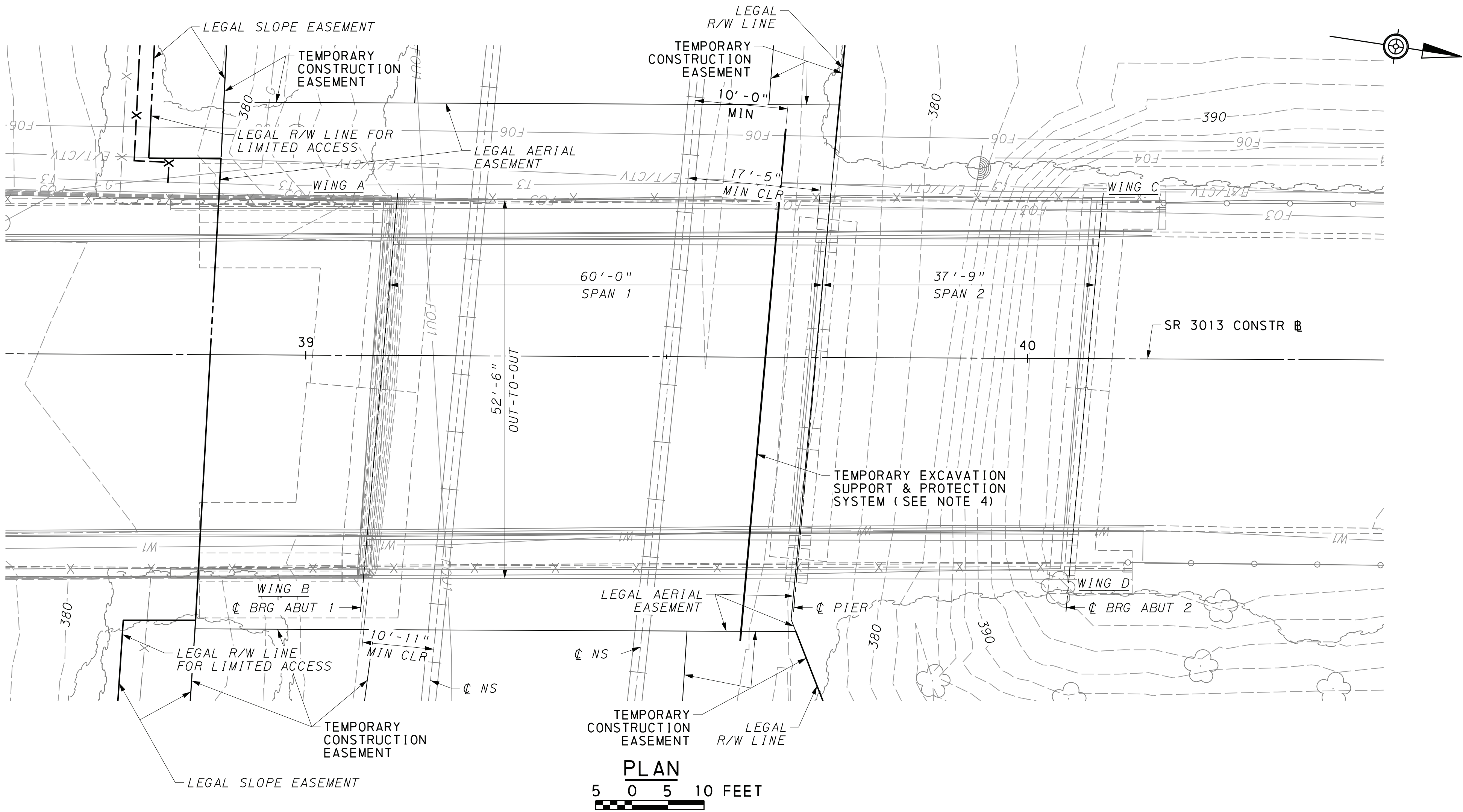
RECOMMENDED 12-6-2022

SHEET 6 OF 93

S-39451

NOTES:

1. SUGGESTED DEMOLITION SEQUENCE IS PROVIDED "FOR INFORMATION ONLY". SEE DESCRIPTION OF SUGGESTED SEQUENCE ON SHEET 8.
2. NORFOLK SOUTHERN REQUIRES CRANES AND LIFTING EQUIPMENT TO HAVE A CAPACITY OF 150% OF THE EXPECTED LOAD (INCLUDING RIGGING) FOR ALL LIFTS OVER RAILROAD PROPERTY.
3. ALL DEMOLITION RELATED ACTIVITIES TAKING PLACE ON NORFOLK SOUTHERN PROPERTY NEED TO BE COORDINATED WITH AND APPROVED BY NORFOLK SOUTHERN.
4. SHORING FOR EXCAVATION SHALL BE IN ACCORDANCE WITH NORFOLK SOUTHERN REQUIREMENTS. NO EXCAVATIONS WILL BE ALLOWED WITHIN 10 FEET OF CENTERLINE OF EXISTING TRACK.
5. EXISTING 29TH STREET BRIDGE OVER SR 0083 TO BE REMOVED, NOT SHOWN FOR CLARITY.

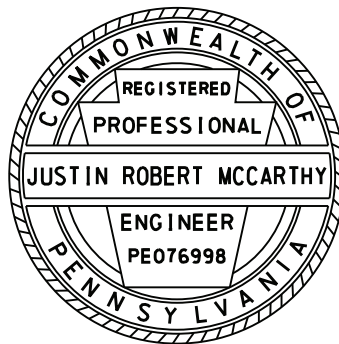


▲ ALL SHORING WITHIN 14 FEET FROM THE TRACK CENTERLINE IS INTERLOCKING SHEETING

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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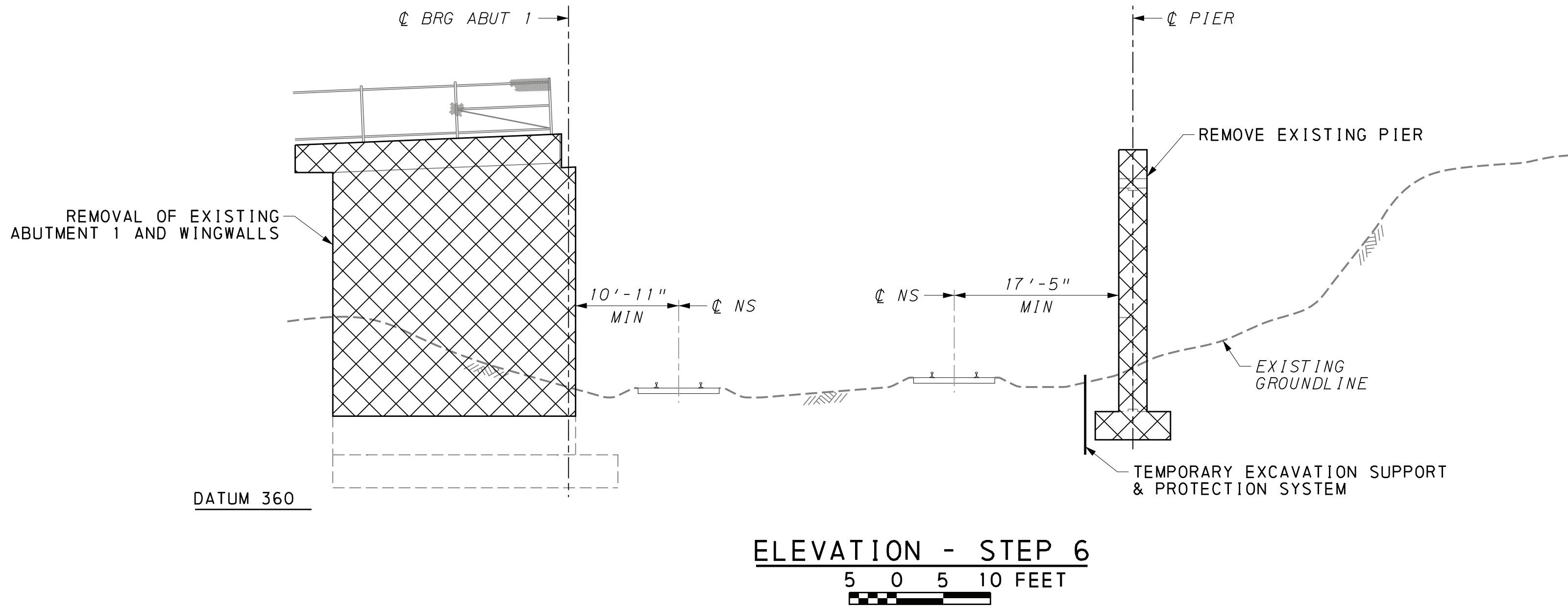
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SUGGESTED DEMOLITION SEQUENCE 1

RECOMMENDED 12-6-2022

SHEET 7 OF 93

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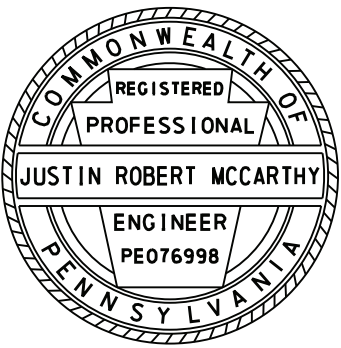
- NOTES:**
- 1. FOR SUGGESTED EXISTING ABUTMENT REMOVAL DETAILS, SEE SHEET 9.
 - 2. EXISTING PIER TO BE REMOVED IN ITS ENTIRETY.
 - 3. EXISTING ABUTMENT 2 STEM, WINGWALLS AND PILE CAP TO BE REMOVED IN THEIR ENTIRETY. EXISTING PILES TO BE REMOVED IN THEIR ENTIRETY.

- SUGGESTED DEMOLITION SEQUENCE:**
- STEP 1: REMOVE THE EXISTING SUPERSTRUCTURE OVER NORFOLK SOUTHERN.
 - STEP 2: REMOVE THE BACKFILL BEHIND THE VERTICAL PORTIONS OF THE RIGID FRAME OVER SR 0083. REMOVE THE BACKFILL BEHIND THE NORTHERN ABUTMENT (EXISTING ABUTMENT 2) OF THE STRUCTURE OVER NORFOLK SOUTHERN.
 - STEP 3: REMOVE THE RIGID FRAME OVER SR 0083.
 - STEP 4: REMOVE BACKFILL AS NEEDED TO ACCESS THE EXISTING SOUTHERN ABUTMENT (EXISTING ABUTMENT 1) OF THE STRUCTURE OVER NORFOLK SOUTHERN TO ADVANCE THE REMOVAL OF THE ABUTMENT STEM AND WINGWALLS. REMOVE THE EXISTING ABUTMENT 2 AND ALL EXISTING PILES.
 - STEP 5: REMOVE EXISTING WINGWALLS OF THE STRUCTURE OVER SR 0083. EXCAVATE THE NORTHERN EMBANKMENT TO ALLOW FOR CONSTRUCTION OF THE NEW ABUTMENT 2 AND ACCESS TO THE EXISTING PIER FOR THE STRUCTURE OVER NORFOLK SOUTHERN.
 - STEP 6: REMOVE THE EXISTING ABUTMENT 1 AND WINGWALLS FOR THE STRUCTURE OVER NORFOLK SOUTHERN. SEE THE SUGGESTED ABUTMENT REMOVAL DETAILS ON THIS SHEET AND SHEET 9. REMOVE THE EXISTING PIER.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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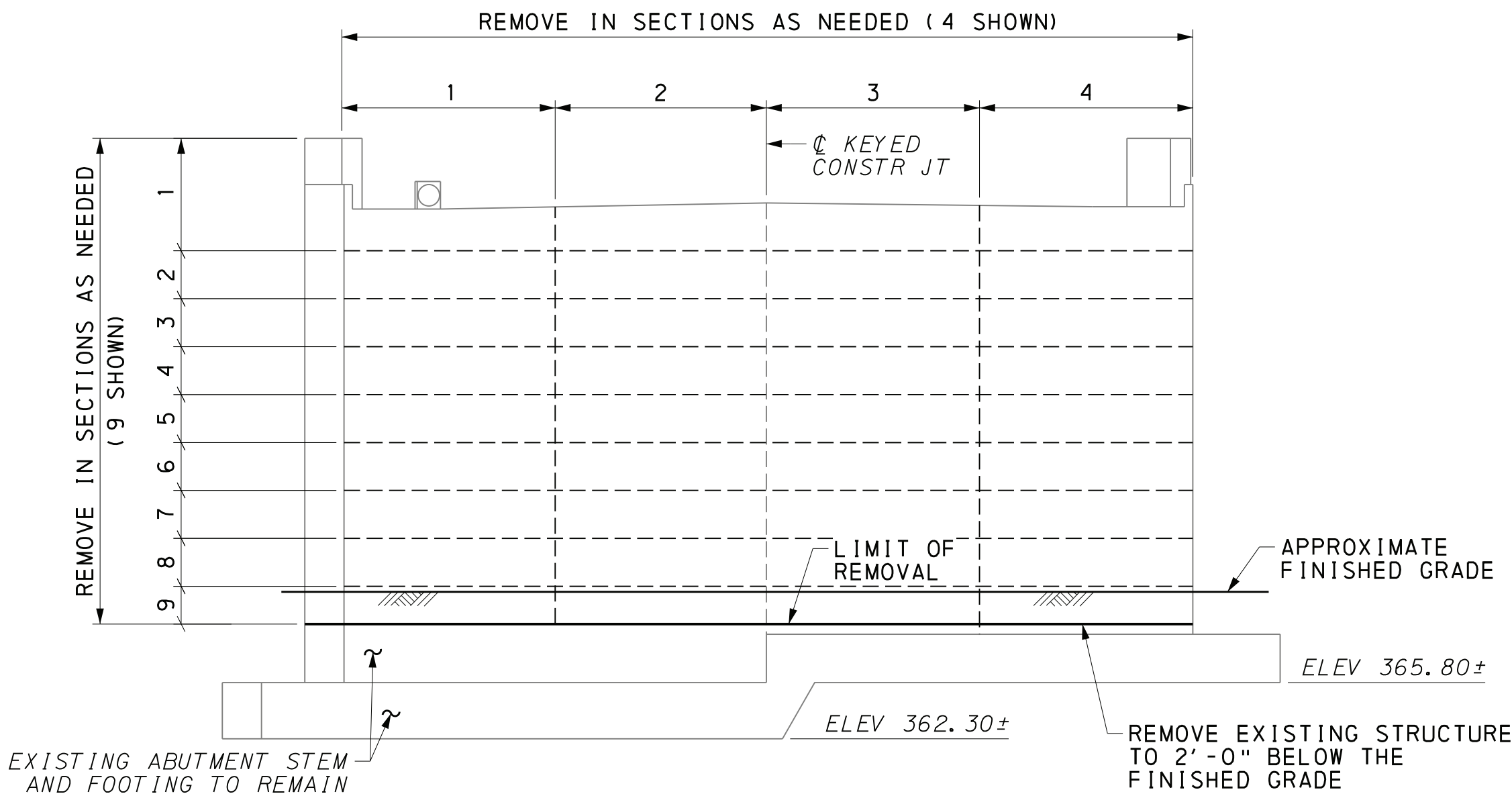


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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE SUGGESTED DEMOLITION SEQUENCE 2	
RECOMMENDED 12-6-2022	SHEET 8 OF 93
S-39451	

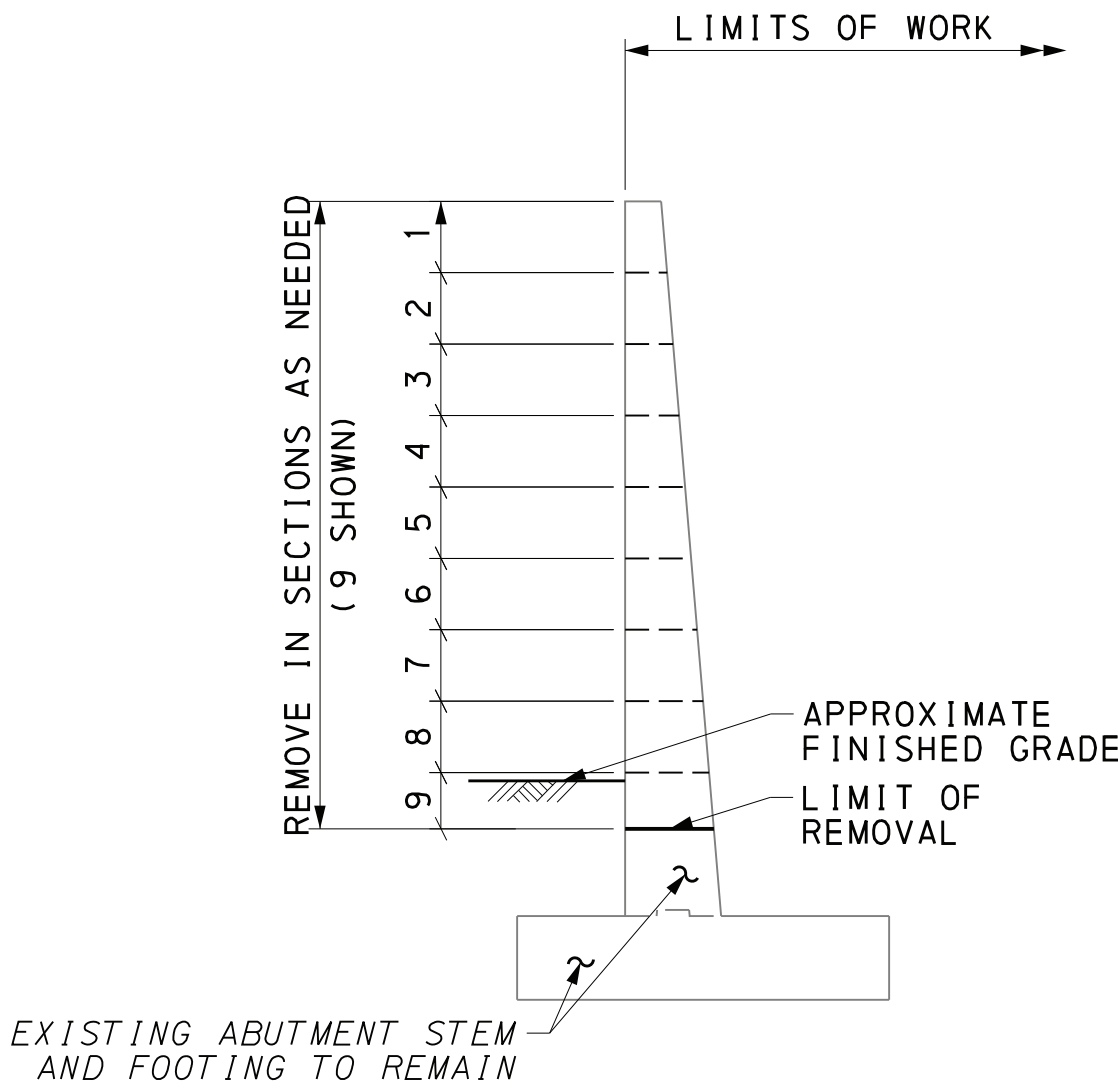
NOTES:

- 1. THE NUMBER AND SIZE OF CONCRETE SECTIONS TO BE REMOVED IS AT THE DISCRETION OF THE CONTRACTOR.
- 2. DUE TO THE CLOSE PROXIMITY OF THE EXISTING ABUTMENT TO THE EXISTING TRACK, TEMPORARY SHORING MAY BE REQUIRED TO MAINTAIN THE BALLAST AND SUB-BALLAST.
- 3. IF TEMPORARY SHORING AT THE EXISTING ABUTMENT 1 IS REQUIRED, THE CONTRACTOR SHALL DESIGN AND INSTALL TEMPORARY SHORING THAT DOES NOT ENCROACH WITHIN 10 FEET OF CENTERLINE OF EXISTING TRACK. DETAILS AND REQUIREMENTS FOR THE TEMPORARY SHORING SHALL BE COORDINATED WITH AND APPROVED BY NORFOLK SOUTHERN.



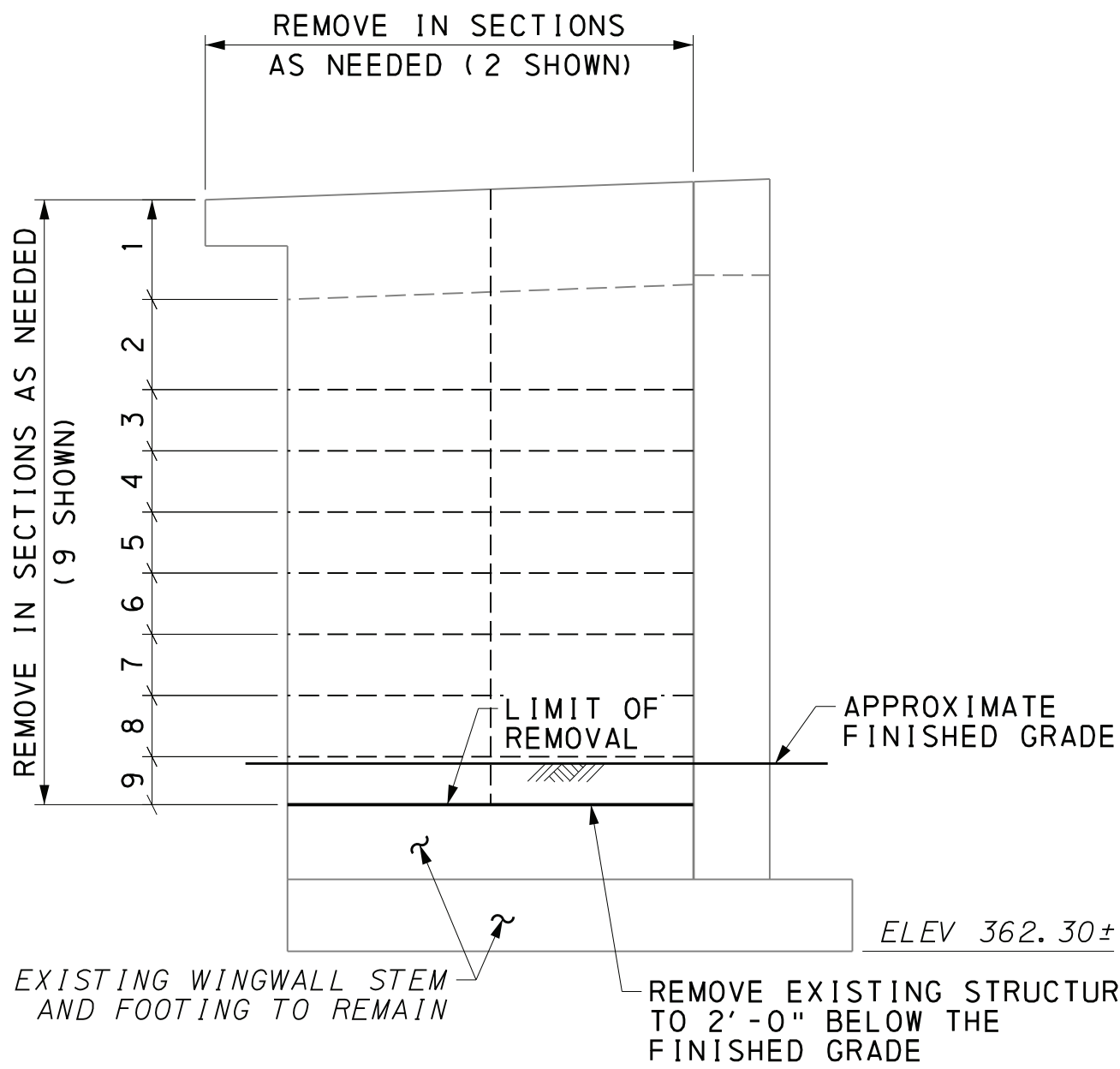
EXISTING ABUTMENT 1 ELEVATION

2 0 4 8 FEET



EXISTING ABUTMENT 1 SECTION

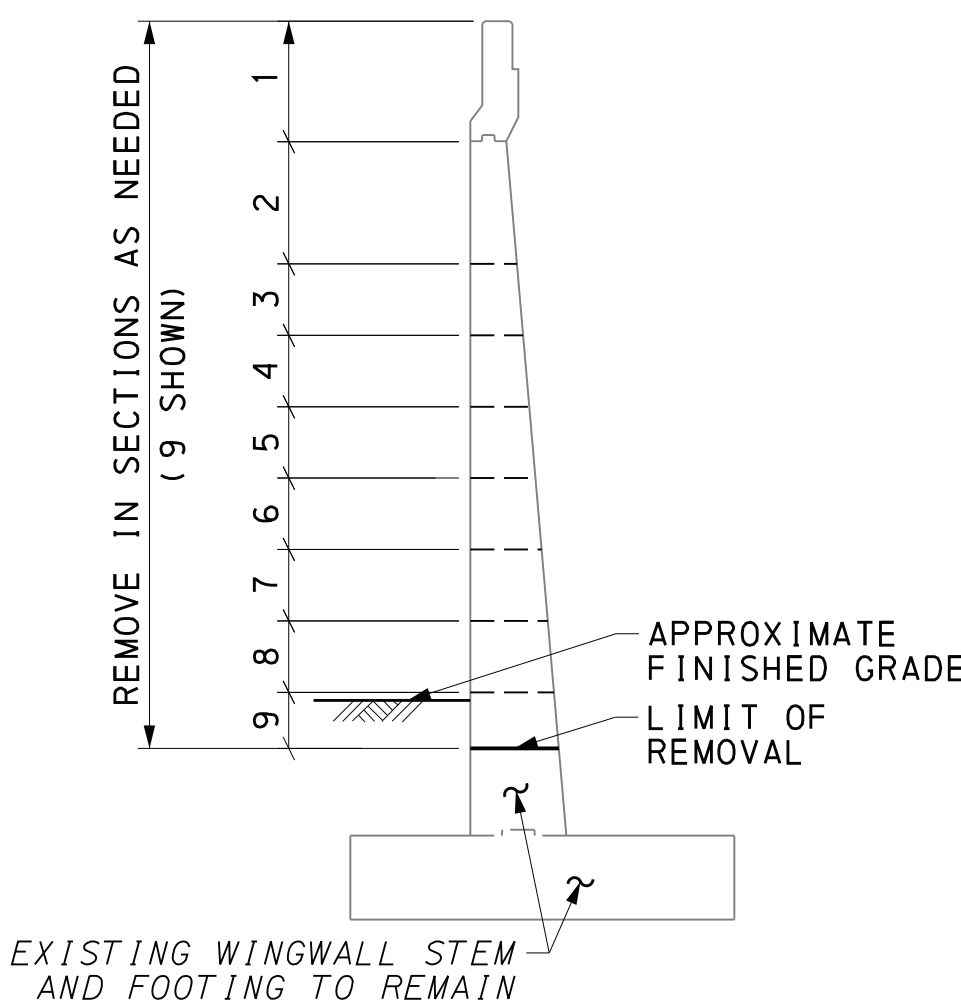
2 0 4 8 FEET



EXISTING WINGWALL ELEVATION

2 0 4 8 FEET

(WING B SHOWN, WING A SIMILAR)



EXISTING WINGWALL SECTION

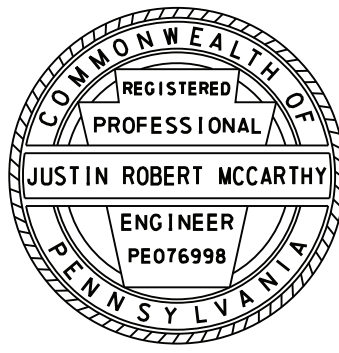
2 0 4 8 FEET

(WING B SHOWN, WING A SIMILAR)

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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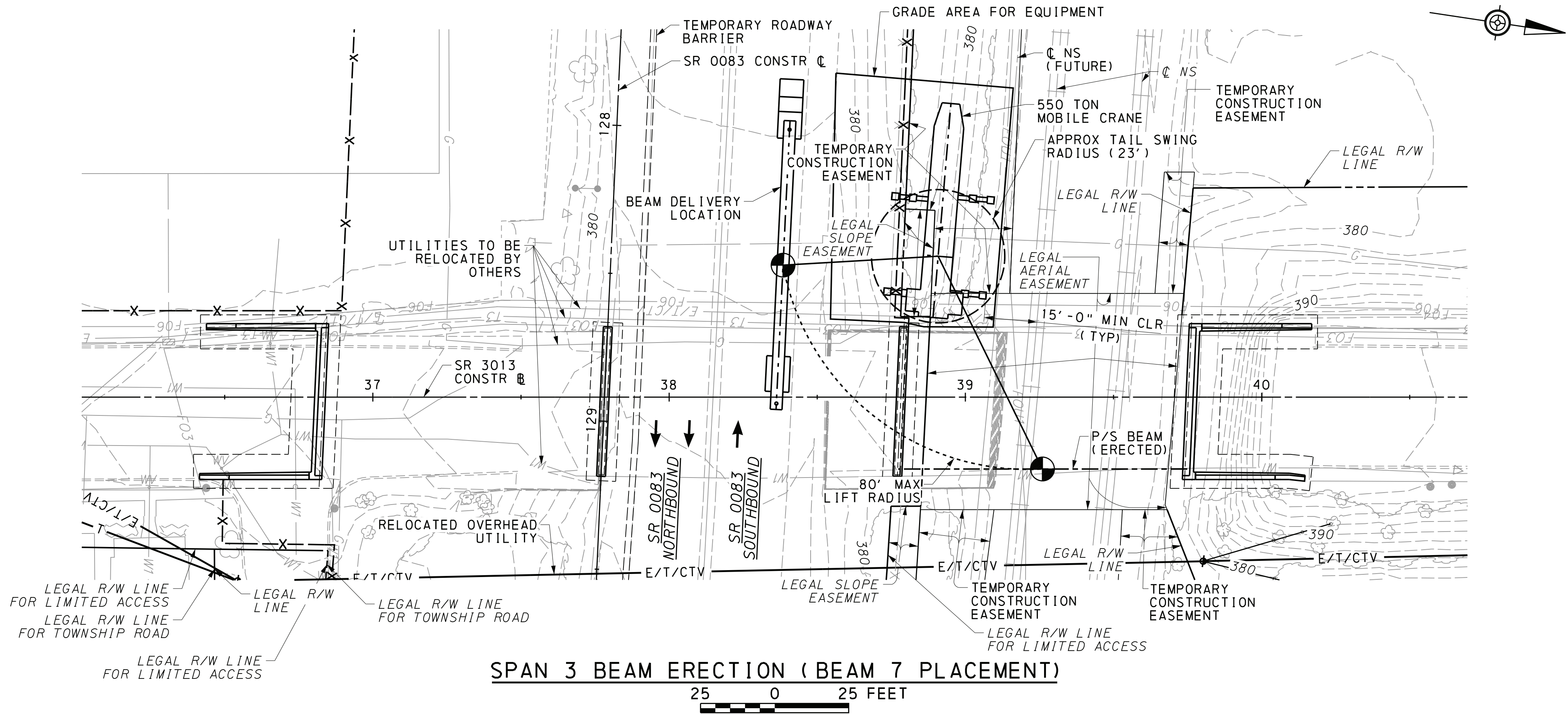
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SUGGESTED DEMOLITION SEQUENCE 3

RECOMMENDED 12-6-2022

SHEET 9 OF 93

S-39451



LEGEND:

PICK POINT

SUGGESTED CONSTRUCTION SEQUENCE:

- STAGE 1: REMOVE EXISTING STRUCTURE.
- STAGE 2: CONSTRUCT NEW SUBSTRUCTURE.
- STAGE 3: PERFORM CLEARING, GRUBBING AND GRADING AS NECESSARY FOR CRANE PLACEMENT.
- STAGE 4: ERECT SPAN 3 BEAMS.
- STAGE 5: ERECT SPAN 2 BEAMS.
- STAGE 6: ERECT SPAN 1 BEAMS.
- STAGE 7: CONSTRUCT DECK.
- STAGE 8: CONSTRUCT APPROACH SLABS.
- STAGE 9: CONSTRUCT BARRIERS.

NOTES:

- 1. CONCEPTUAL ERECTION PLAN IS PROVIDED "FOR INFORMATION ONLY".
- 2. NORFOLK SOUTHERN REQUIRES CRANES TO HAVE A CAPACITY OF 150% OF THE EXPECTED LOAD (INCLUDING BEAM & RIGGING) AT THE REQUIRED REACH FOR ALL LIFTS OVER RAILROAD PROPERTY.
- 3. ALL LIFTS OVER NORFOLK SOUTHERN PROPERTY NEED TO BE COORDINATED AND APPROVED BY NORFOLK SOUTHERN.
- 4. ESTIMATED PA BULB-TEE WEIGHT IS 85.0 KIPS (DOES NOT INCLUDE 1.5 RAILROAD FACTOR).
- 5. CRANE SIZE SHOWN IS THE ESTIMATED CRANE SIZE REQUIRED TO PERFORM THE CONCEPTUAL ERECTION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL CRANE SIZE.
- 6. PROVIDE SHORT TERM TEMPORARY MAINTENANCE AND PROTECTION OF THE SOUTHBOUND RIGHT LANE TRAFFIC CLOSURE FOR BEAM DELIVERY.

REFERENCES:

- GENERAL PLAN
- GENERAL NOTES
- CONCEPTUAL ERECTION PLAN 2
- CONCEPTUAL ERECTION PLAN 3

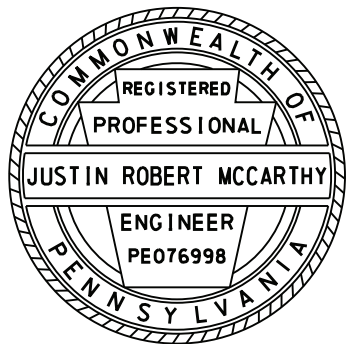
SHEETS:

- 1
- 4 & 5
- 11
- 12

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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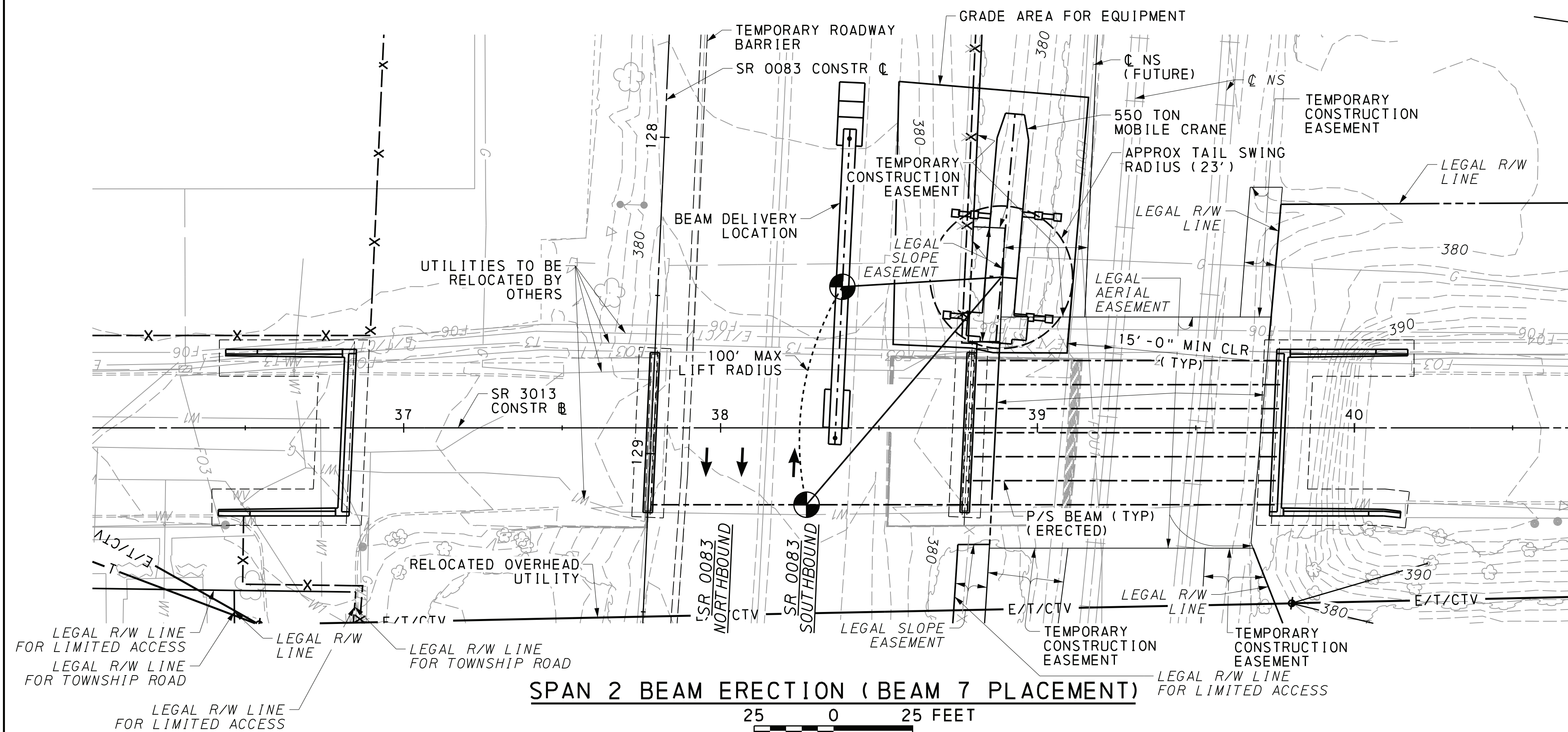
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
CONCEPTUAL ERECTION PLAN 1

RECOMMENDED 12-6-2022

SHEET 10 OF 93

S-39451

**LEGEND:****NOTES:**

1. CONCEPTUAL ERECTION PLAN IS PROVIDED "FOR INFORMATION ONLY".
2. COORDINATE CRANE PLACEMENT REQUIREMENTS WITH NORFOLK SOUTHERN DUE TO THE PROXIMITY OF THE CRANE IN RELATION TO NORFOLK SOUTHERN PROPERTY.
3. ESTIMATED PA BULB-TEE WEIGHT IS 87.0 KIPS.
4. CRANE SIZE SHOWN IS THE ESTIMATED CRANE SIZE REQUIRED TO PERFORM THE CONCEPTUAL ERECTION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL CRANE SIZE.
5. PROVIDE SHORT TERM TEMPORARY MAINTENANCE AND PROTECTION OF THE SOUTHBOUND RIGHT LANE TRAFFIC CLOSURE FOR BEAM DELIVERY.
6. PROVIDE TEMPORARY ROLLING CLOSURES OF BOTH NORTHBOUND AND SOUTHBOUND LANES FOR SPAN 2 BEAM INSTALLATION.

REFERENCES:

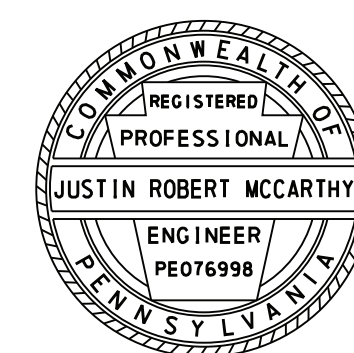
GENERAL PLAN
GENERAL NOTES
CONCEPTUAL ERECTION PLAN 1
CONCEPTUAL ERECTION PLAN 3

SHEETS:

1
4 & 5
10
12

Mark	Description	By	Chk' d	Recm' d	Date
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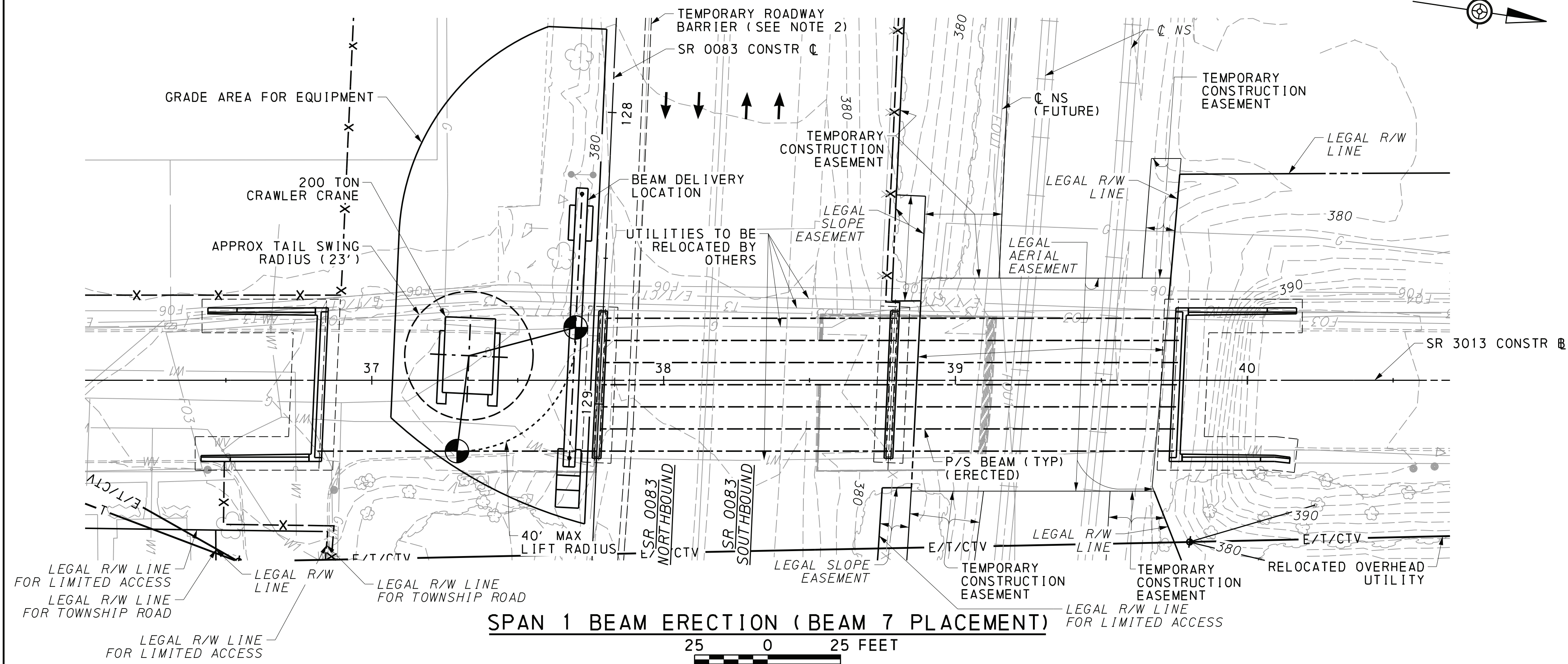
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
CONCEPTUAL ERECTION PLAN 2

RECOMMENDED 12-6-2022

SHEET 11 OF 93

S-39451



LEGEND:
PICK POINT

- NOTES:**
- CONCEPTUAL ERECTION PLAN IS PROVIDED "FOR INFORMATION ONLY".
 - ADJUST TEMPORARY ROADWAY BARRIER, AS REQUIRED, TO FACILITATE SPAN 1 BEAM DELIVERY LOCATION.
 - ESTIMATED PA BULB-TEE WEIGHT IS 83.0 KIPS.
 - CRANE SIZE SHOWN IS THE ESTIMATED CRANE SIZE REQUIRED TO PERFORM THE CONCEPTUAL ERECTION PLAN. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL CRANE SIZE.

REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
CONCEPTUAL ERECTION PLAN 1	10
CONCEPTUAL ERECTION PLAN 2	11

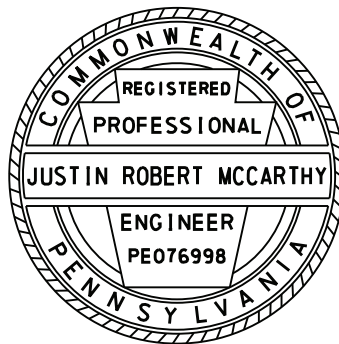
Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
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SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
CONCEPTUAL ERECTION PLAN 3

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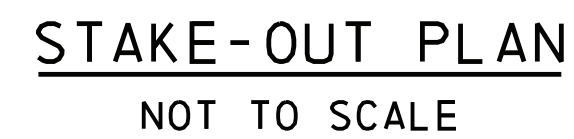


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RECOMMENDED 12-6-2022

SHEET 12 OF 93

S-39451



FOUR PLACE COORDINATES ARE FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO DECIMAL POINTS.

SR 3013 CONSTR & COORDINATES				
POINT	STATION	NORTHING	EASTING	BEARING
POB	29+91.55	337394.6480	2222712.8406	
POE	44+88.28	338874.7422	2222490.2821	N08° 33' 05 "W

1. WORK POINTS ALONG FRONT FACE OF ABUTMENTS AND WINGS ARE LOCATED AT THE FRONT FACE OF THE ARCHITECTURAL SURFACE TREATMENT.
2. WORK POINTS AT THE PIER ARE LOCATED ALONG THE CENTERLINE OF PIER.

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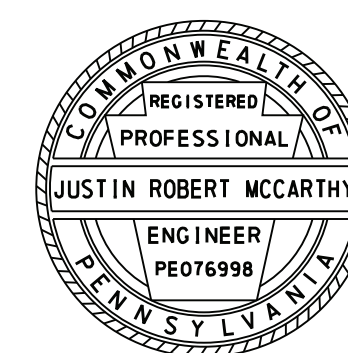
DAUPHIN COUNTY
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SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
STAKE-OUT PLAN

SHEET 13 OF 93

S-39451

GENERAL PLAN
MOMENT SLAB GENERAL PLANS
GENERAL NOTES
ABUTMENT 1 PLAN
ABUTMENT 2 PLAN
PIER 1 PLAN
PIER 2 PLAN

1
2
4 & 5
15
24
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FOUNDATION PARAMETERS AT ABUTMENT 1		
BEARING CAPACITY	ABUTMENT 1	WINGWALL A & B
SECTION	TYPICAL	TYPICAL
BEARING RESISTANCE	20.75 KSF	21.22 KSF
MAX BEARING PRESSURE	9.55 KSF	7.94 KSF
PERFORMANCE RATIO	2.173	2.673
LIMIT STATE	STR-I	STR-I
LOAD CASE	MAX	MIN
STAGE	FINAL	FINAL
SLIDING CAPACITY	ABUTMENT 1	WINGWALL A & B
SECTION	TYPICAL	TYPICAL
SLIDING RESISTANCE	23.76 K	21.29 K
MAX HORIZONTAL FORCE	20.01 K	21.18 K
PERFORMANCE RATIO	1.187	1.005
LIMIT STATE	STR-I	STR-I
LOAD CASE	MIN	MIN
CONDITION	TEMPORARY	TEMPORARY

SPREAD FOOTING SOIL PARAMETERS	
ALLOWABLE SETTLEMENT	1.0 IN
BEARING CAPACITY PHI FACTOR	0.50
SLIDING PHI FACTOR	0.80
SOIL LAYER THICKNESS	8.2 FT*
MASS UNIT WEIGHT	120 PCF
SATURATED UNIT WEIGHT	125 PCF
ELASTIC MODULUS	1584 KSF
EFFECTIVE FRICTION ANGLE	34 DEG

*13.2 FT AT STEPPED WINGS

NOTES:

- WORK POINTS ARE LOCATED AT THE FRONT FACE OF THE ARCHITECTURAL SURFACE TREATMENT.
- EXCAVATE EXISTING MATERIAL BELOW BOTTOM OF FOOTING DOWN TO THE TOP OF ROCK. PLACE STRUCTURE BACKFILL UNDERNEATH FOOTING IN COMPACTED LIFTS UP TO THE BOTTOM OF FOOTING ELEVATION.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

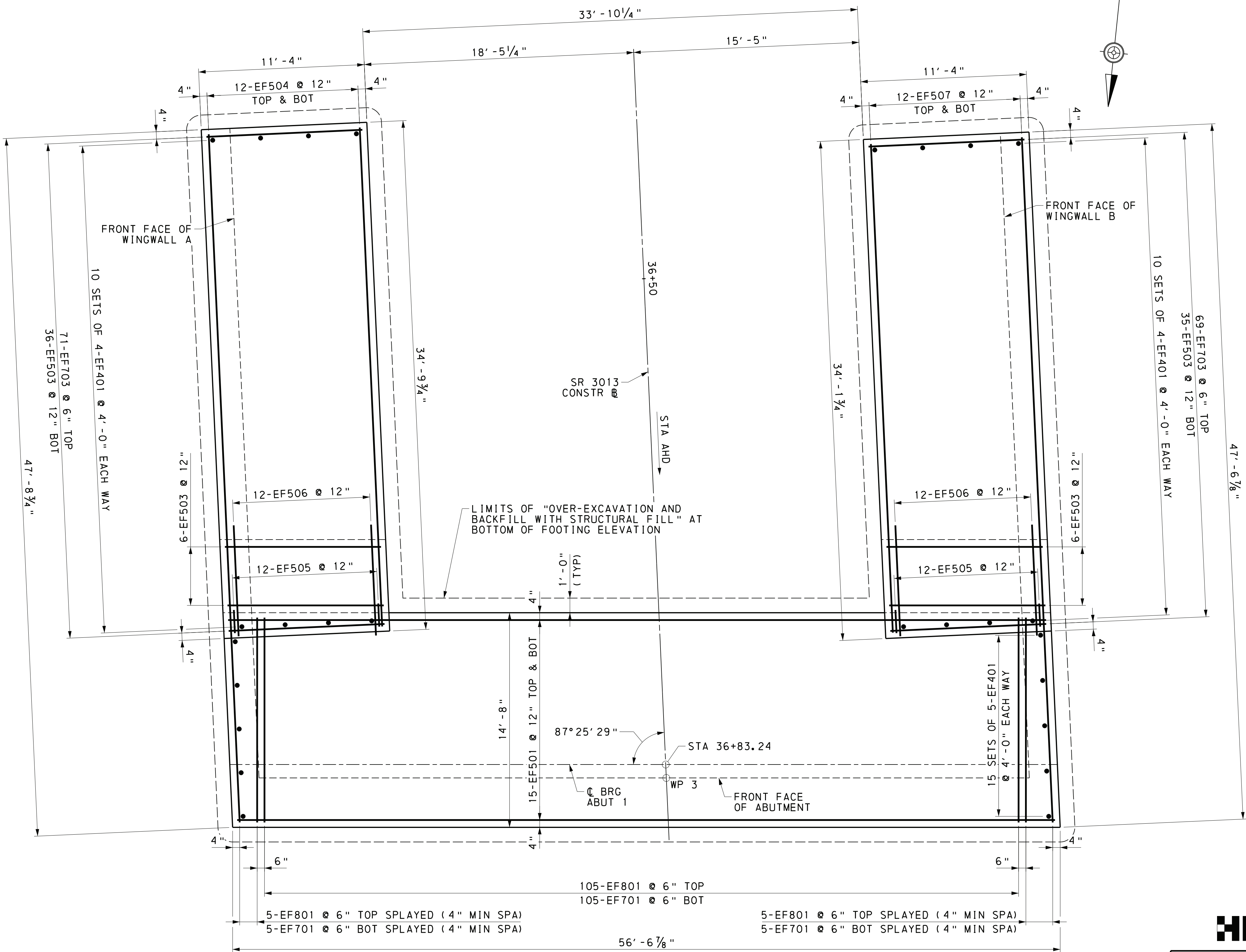
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 1 FOOTING PLAN

RECOMMENDED 12-6-2022 SHEET 14 OF 93

S-39451



FOOTING PLAN
2 0 2 4 FEET

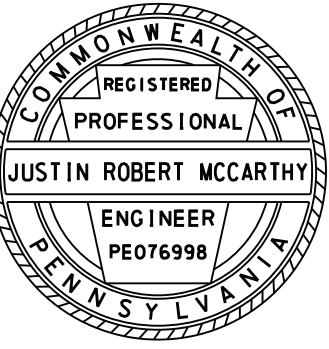
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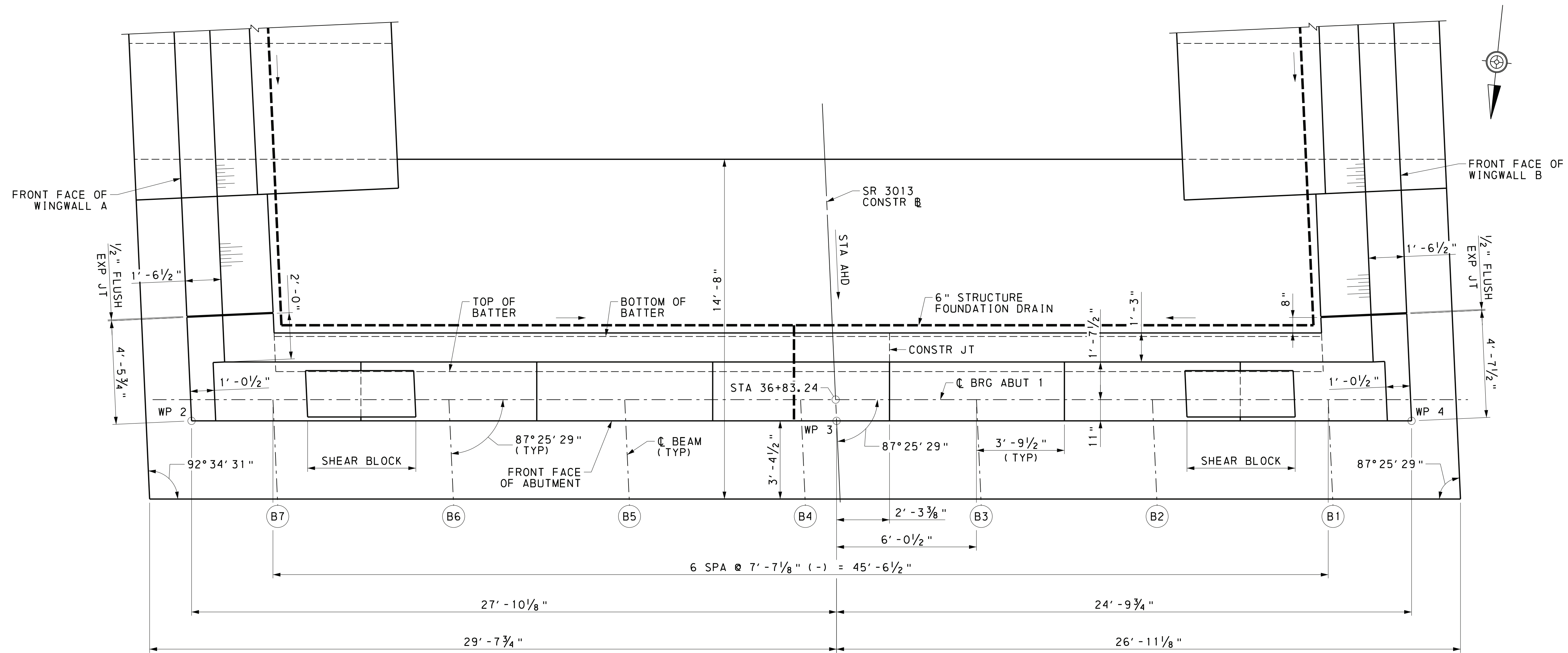
- GENERAL NOTES
- STAKE-OUT PLAN
- ABUTMENT 1 DRAWINGS

SHEETS:

- 4 & 5
- 13
- 14 - 22

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PLAN
1 0 1 2 3 FEET

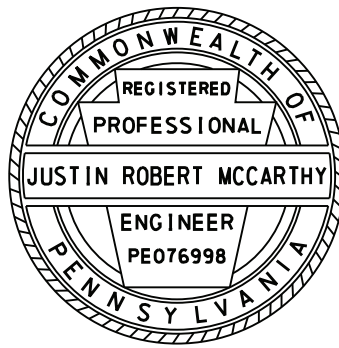
- NOTES:**
1. WORK POINTS ARE LOCATED AT THE FRONT FACE OF THE ARCHITECTURAL SURFACE TREATMENT.
 2. STANDPIPE AND SUPPORT BRACKETS NOT SHOWN FOR CLARITY.

REFERENCES:	SHEETS:
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
ABUTMENT 1 DRAWINGS	14 - 22
STANDPIPE DETAILS	85

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

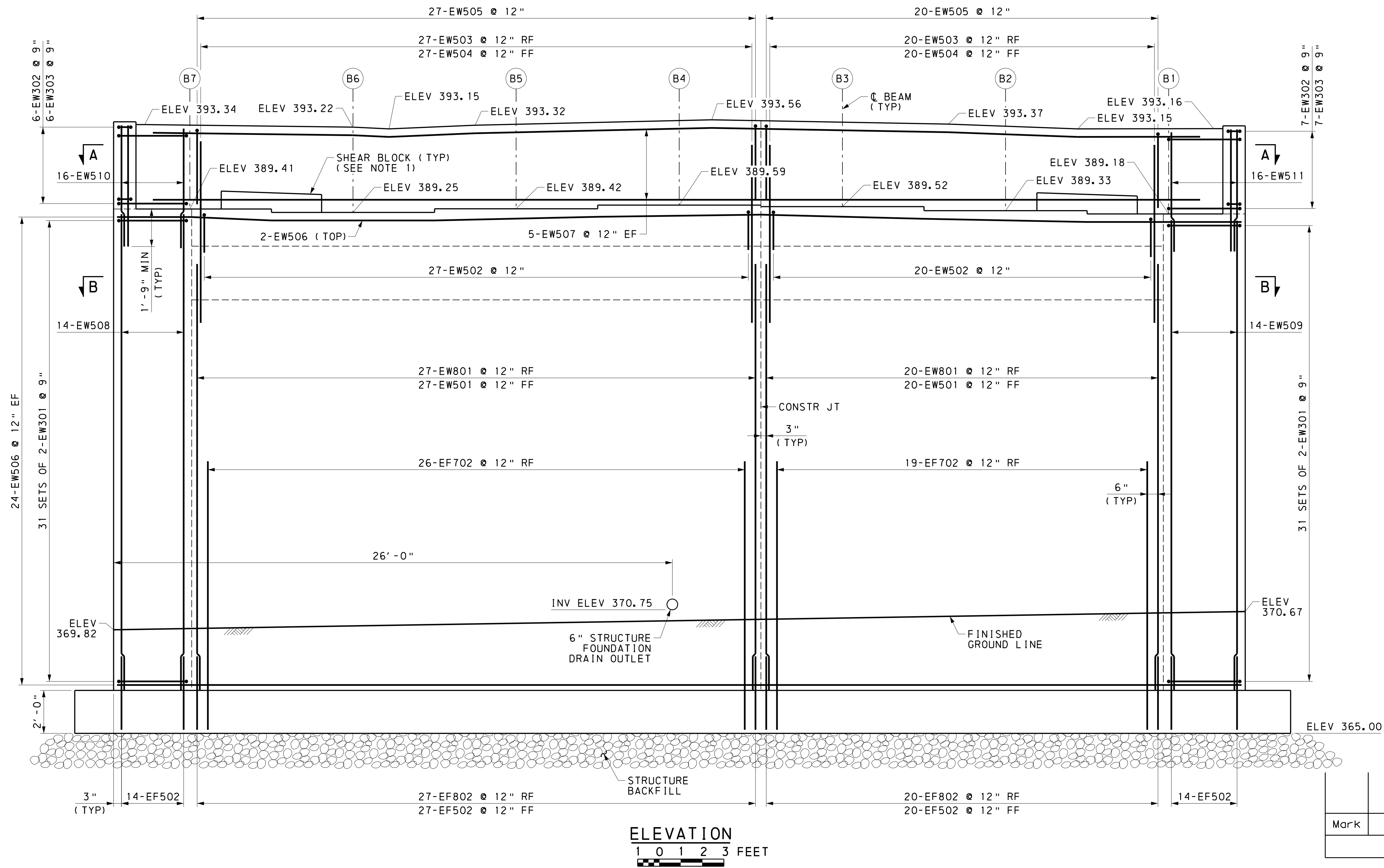
SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE ABUTMENT 1 PLAN	
RECOMMENDED 12-6-2022	SHEET 15 OF 93
S-39451	



NOTES:

1. SHEAR BLOCK REINFORCEMENT NOT SHOWN FOR CLARITY.
2. BACKWALL ELEVATIONS GIVEN AT LOCATIONS OF SUPERSTRUCTURE BREAK POINTS.

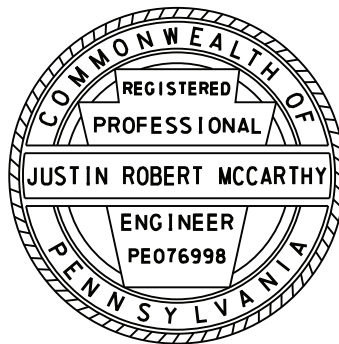
REFERENCES:

- GENERAL NOTES
- ABUTMENT 1 DRAWINGS
- MISCELLANEOUS ABUTMENT DETAILS
- ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

- 4 & 5
- 14 - 22
- 32
- 33

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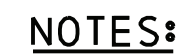
Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

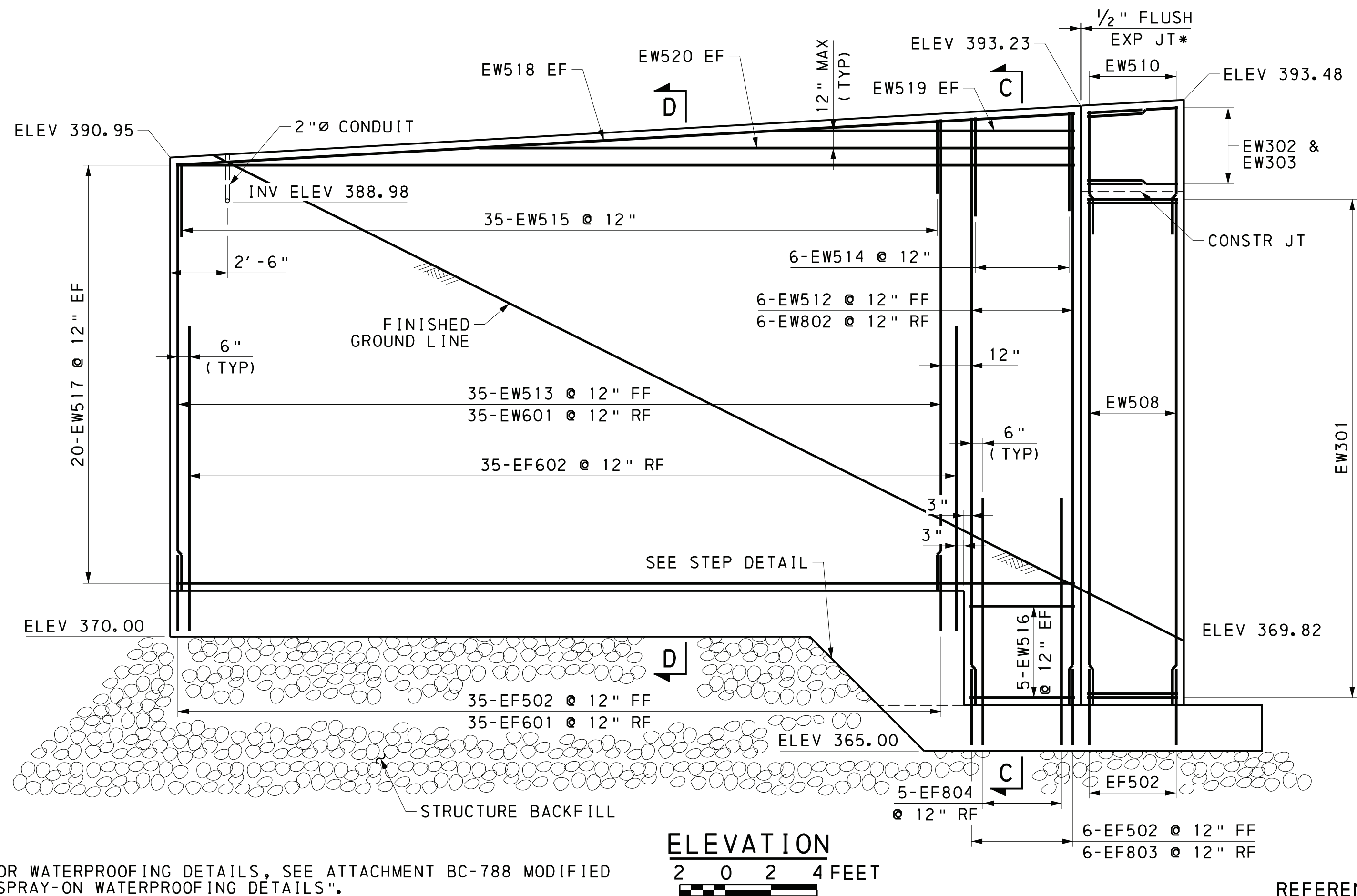
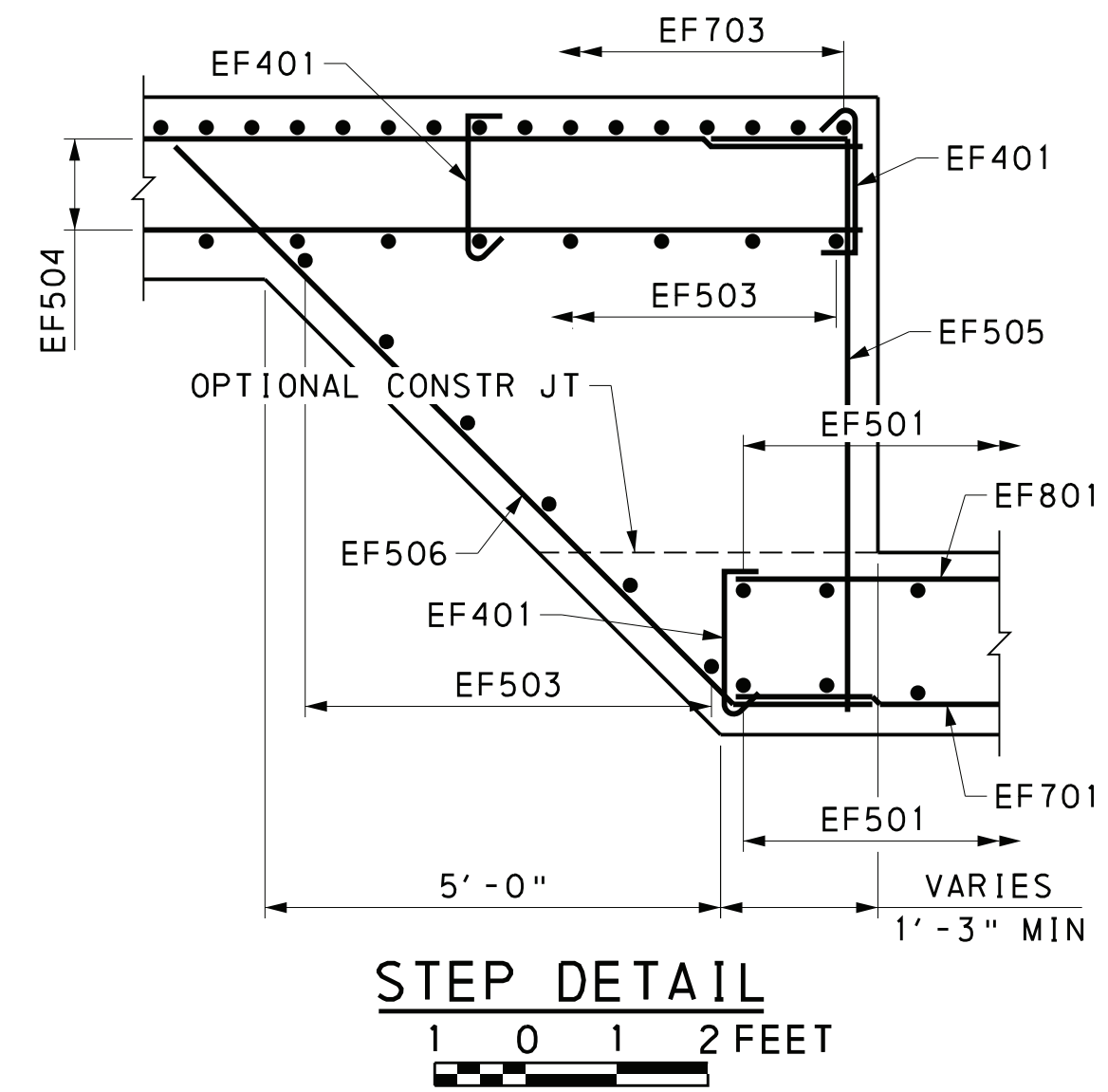
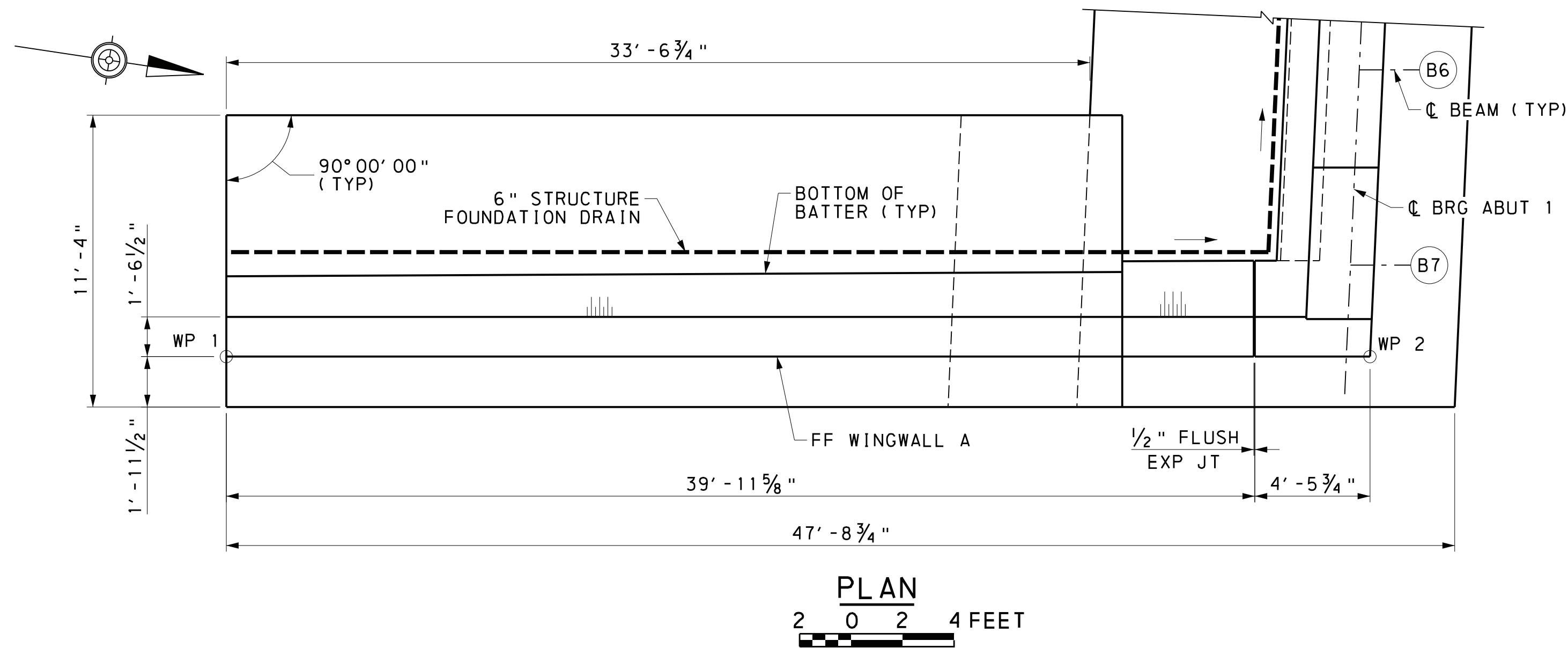
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DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 1 ELEVATION

RECOMMENDED 12-6-2022	SHEET 16 OF 93
S-39451	



- | | | | |
|----------|--------------|----------|--------------|
| DES: SMZ | DES CKD: CEK | DWG: SMZ | DWG CKD: CEK |
|----------|--------------|----------|--------------|



* FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".

REFERENCES:

GENERAL NOTES
ABUTMENT 1 DRAWINGS
ABUTMENT ARCHITECTURAL DETAILS

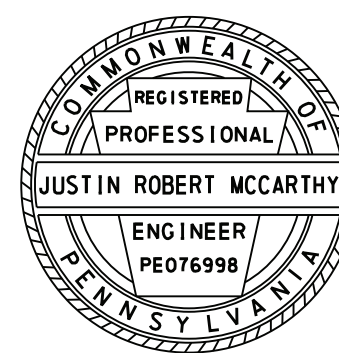
SHEETS:

4 & 5
14 - 22
33

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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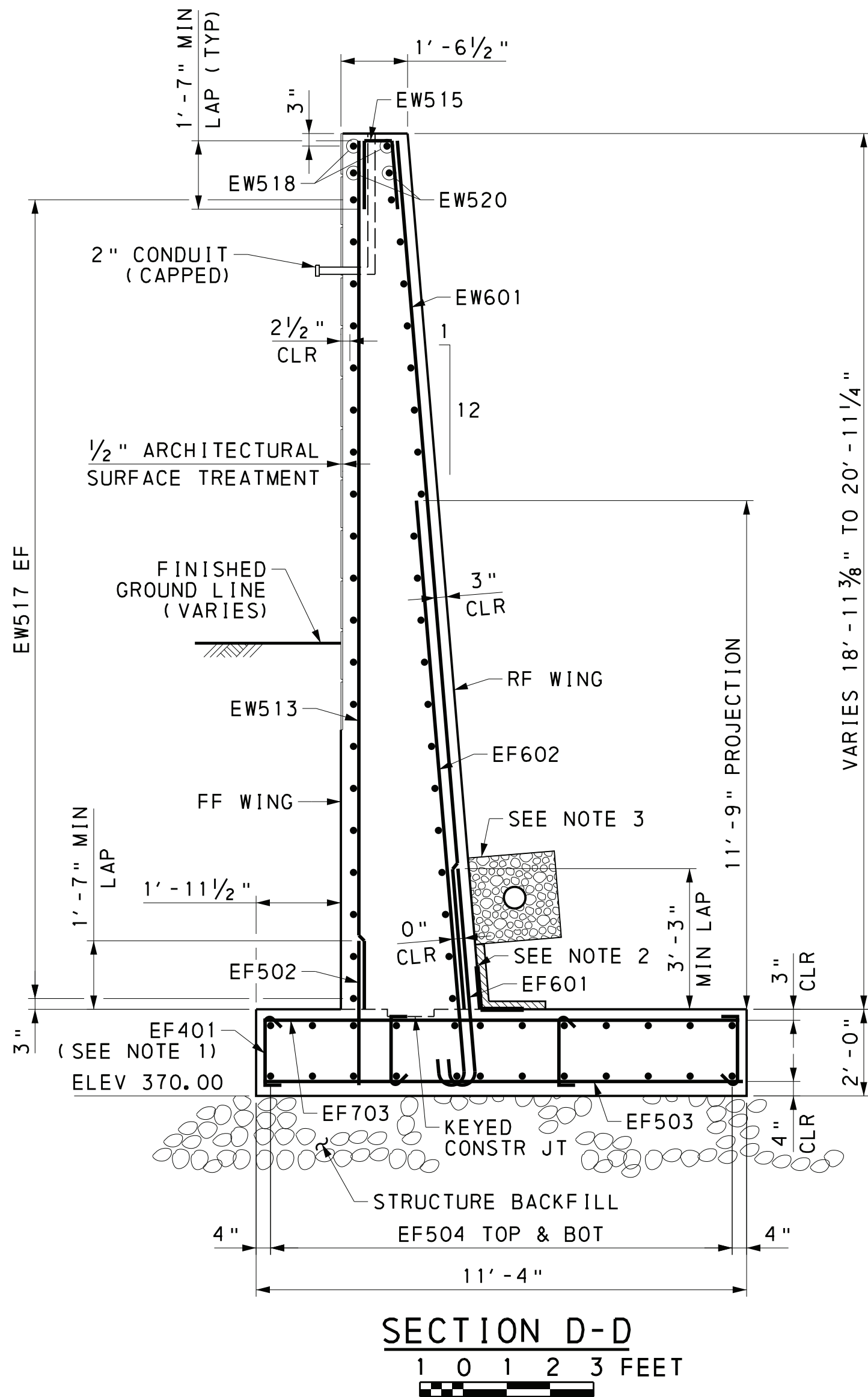
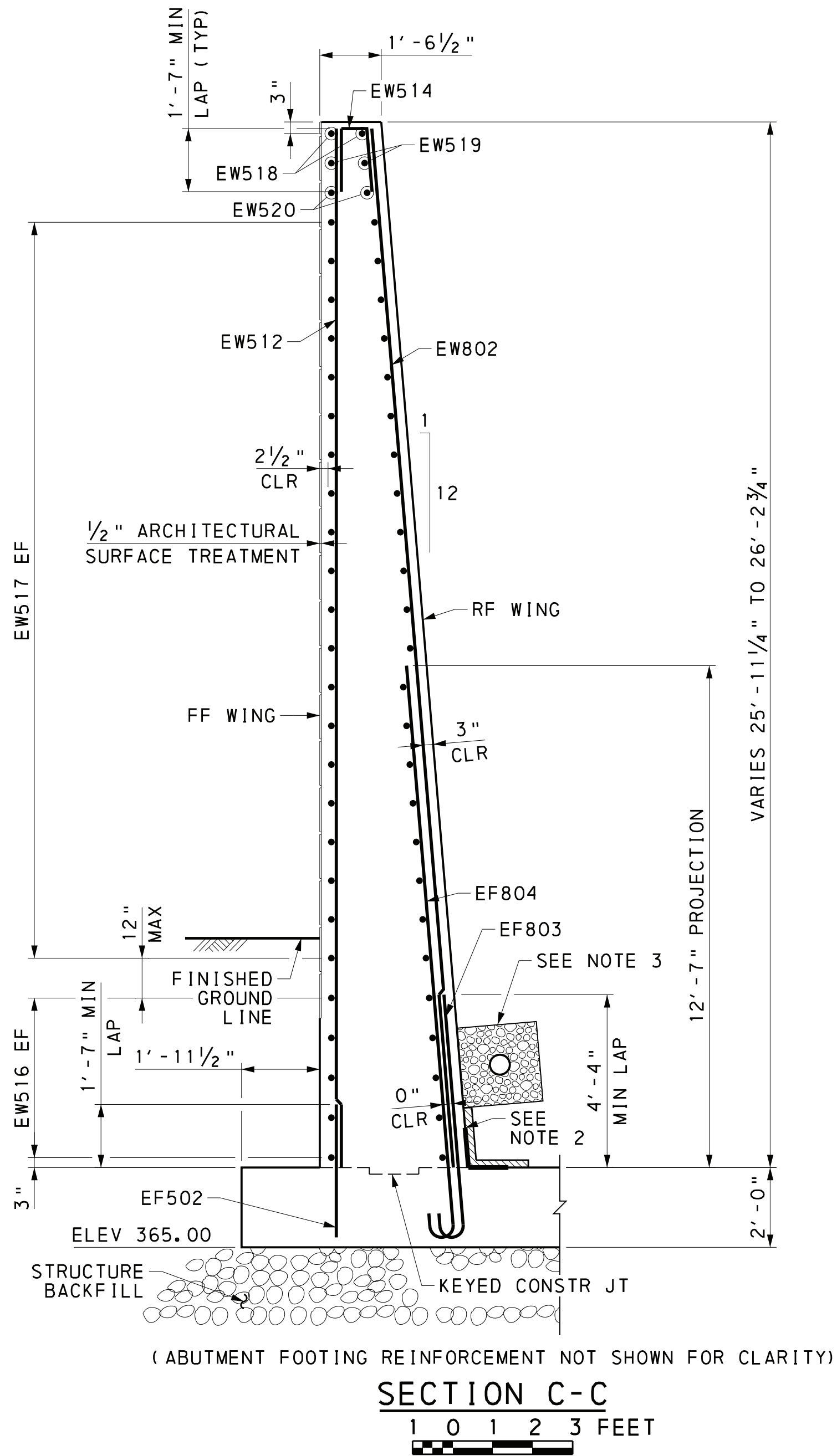
COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL A PLAN & ELEVATION

RECOMMENDED 12-6-2022

SHEET 18 OF 93

S-39451



NOTES:

- TIE TOP & BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
- FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".
- 6" STRUCTURE FOUNDATION DRAIN WITHIN CONTINUOUS 2' x 2' OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1. SEE PUB 408 SECTION 1001.3(d) AND BC-751M.

REFERENCES:

- GENERAL NOTES
ABUTMENT 1 DRAWINGS
ABUTMENT ARCHITECTURAL DETAILS

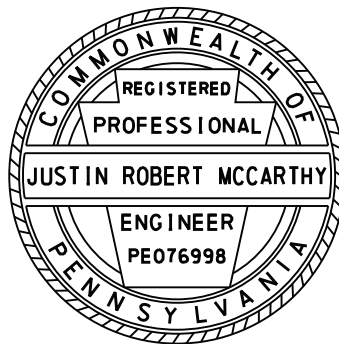
SHEETS:

- 4 & 5
14 - 22
33

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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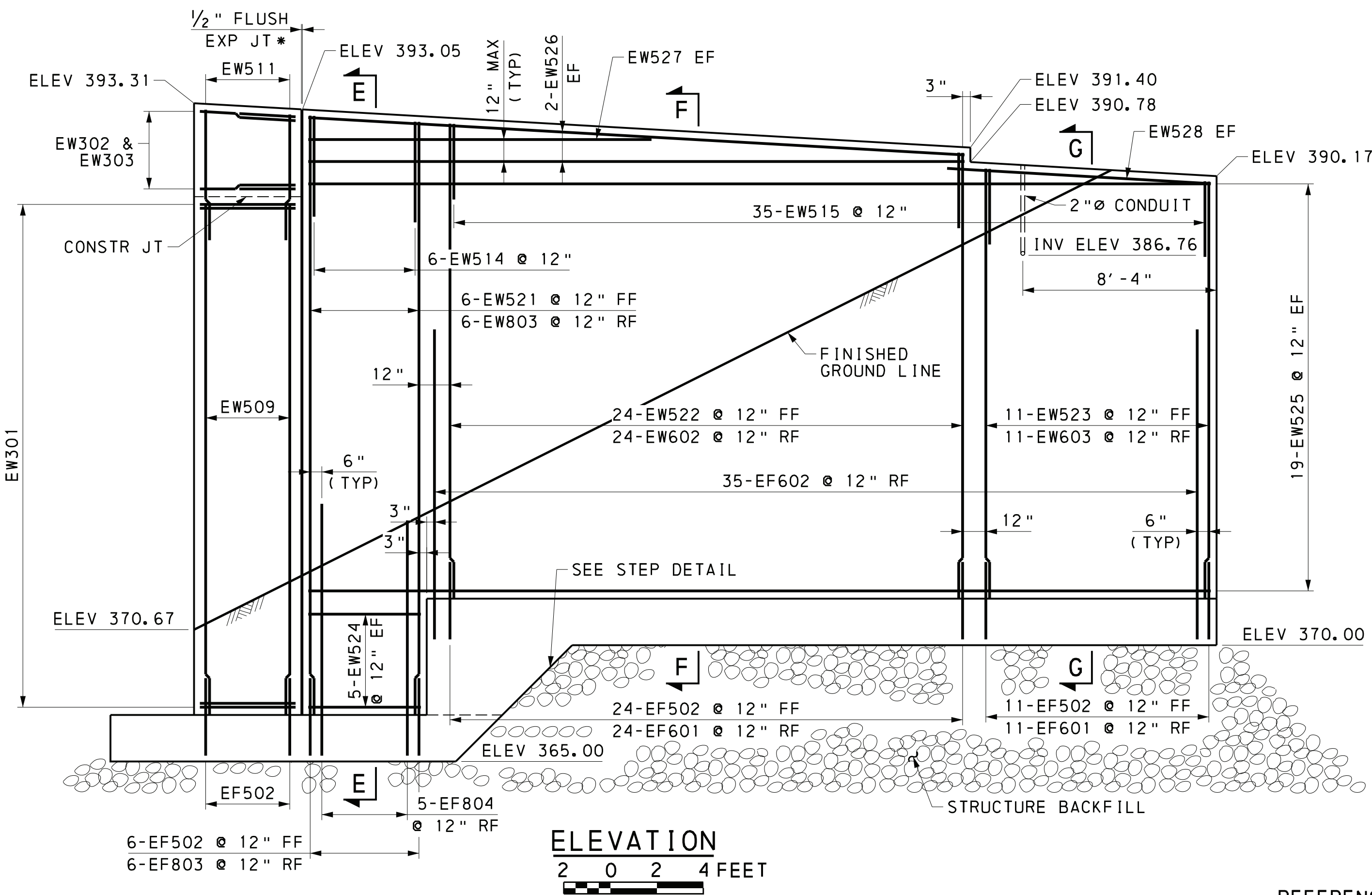
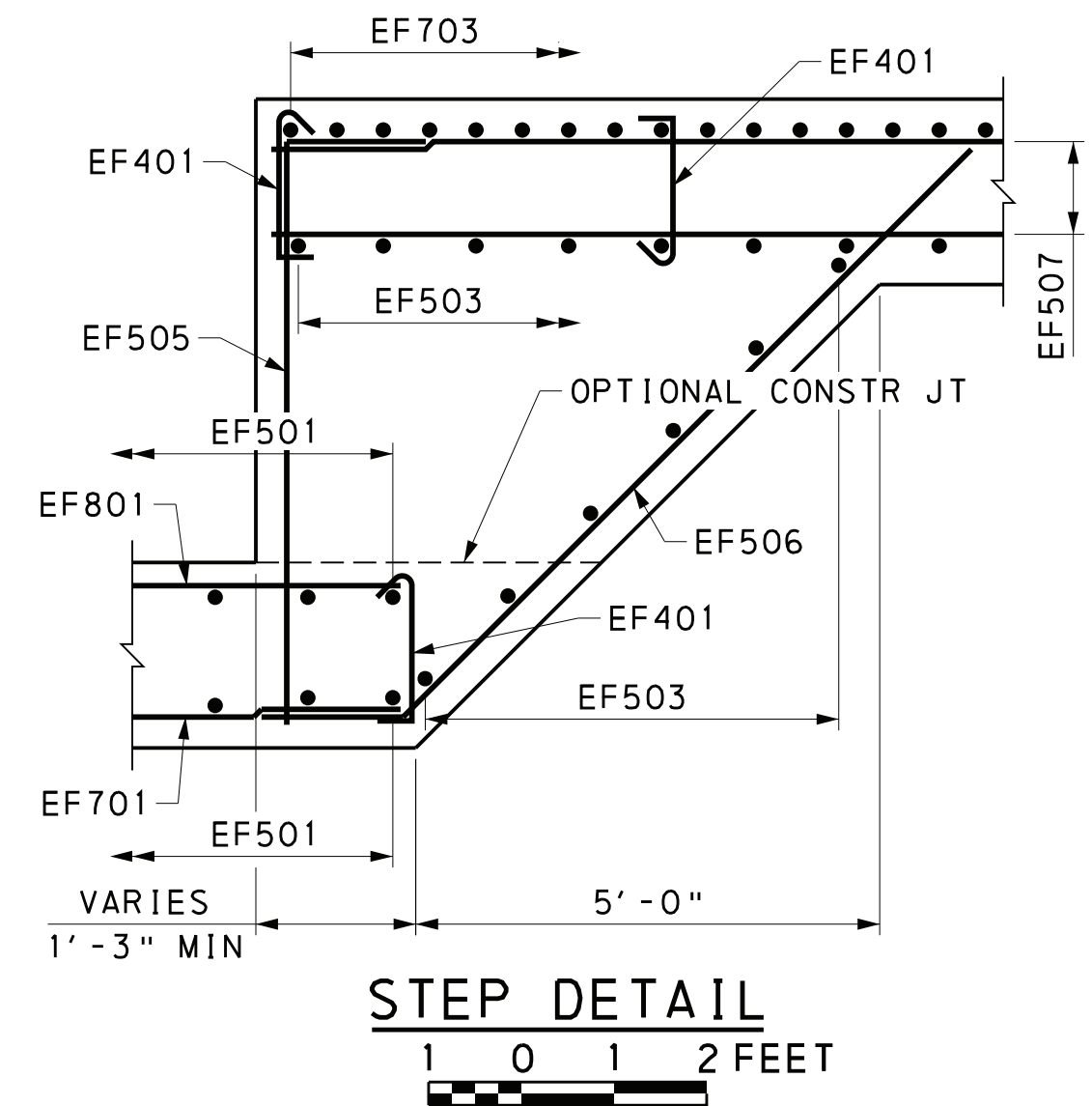
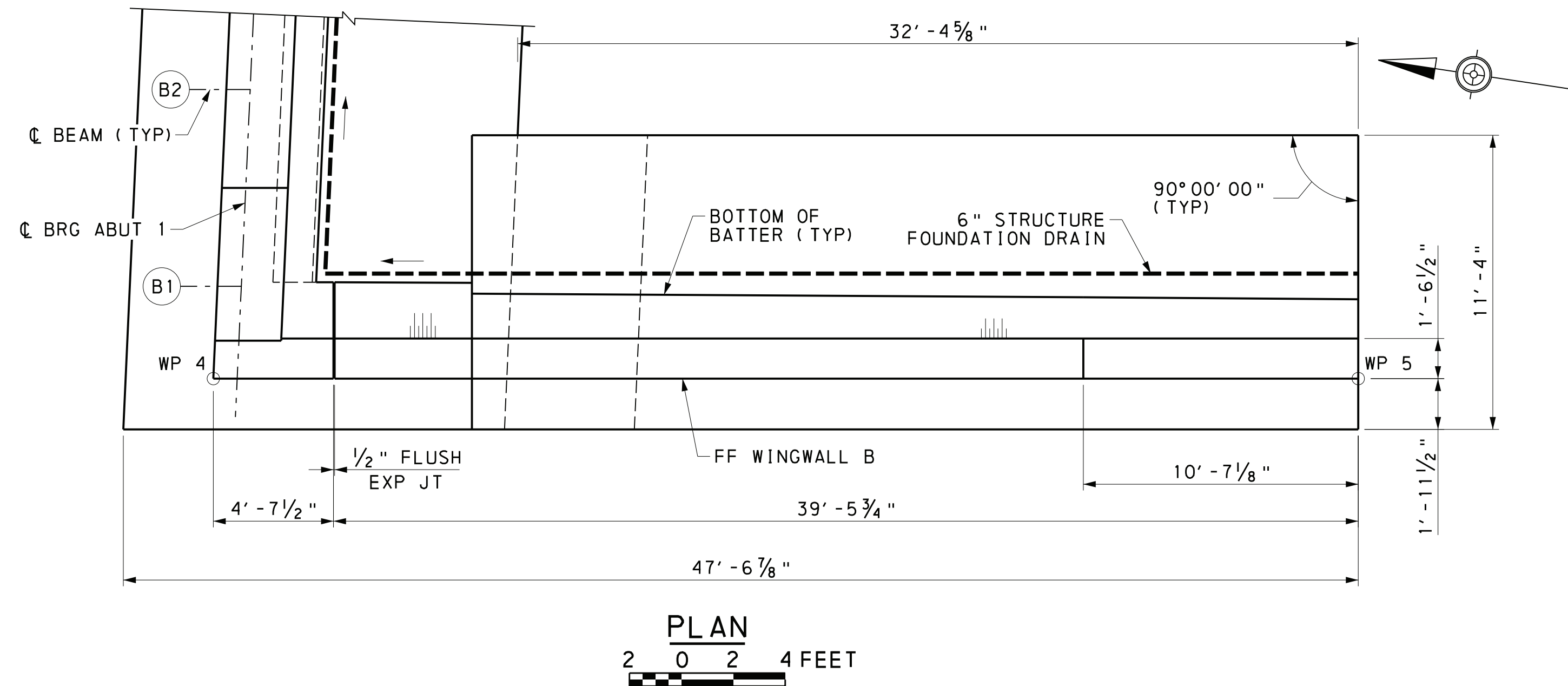
COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL A SECTIONS

RECOMMENDED 12-6-2022

SHEET 19 OF 93

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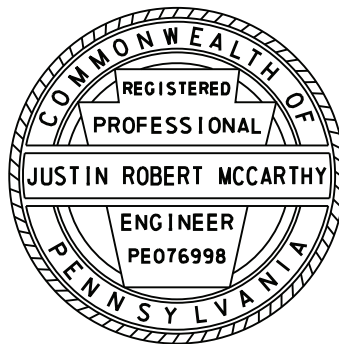


- NOTES:
1. STANDPIPE AND SUPPORT BRACKETS NOT SHOWN FOR CLARITY.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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DAUPHIN COUNTY
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL B PLAN & ELEVATION

RECOMMENDED 12-6-2022

SHEET 20 OF 93

S-39451

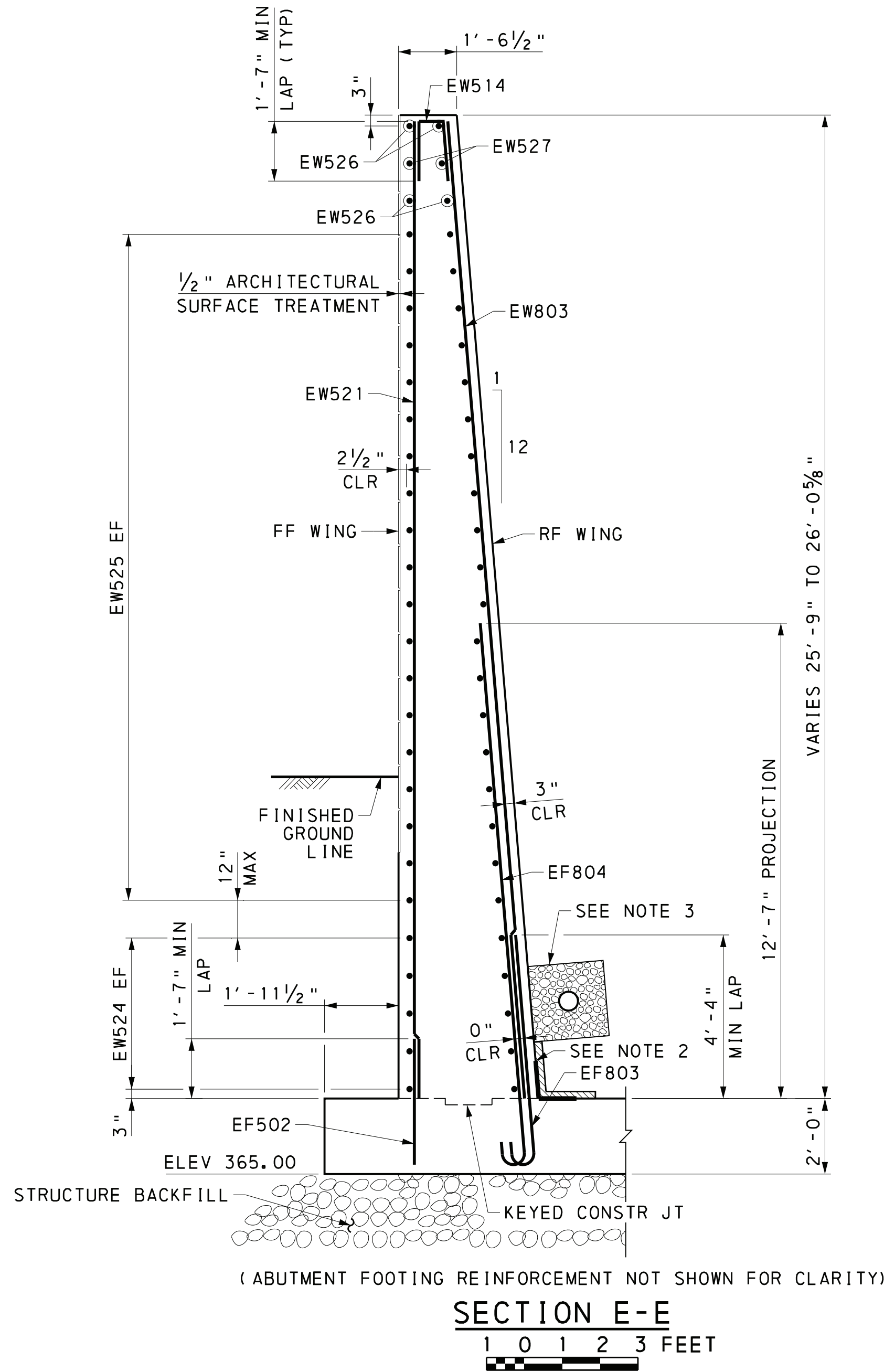
REFERENCES:

- GENERAL NOTES
- ABUTMENT 1 DRAWINGS
- ABUTMENT ARCHITECTURAL DETAILS
- STANDPIPE DETAILS

SHEETS:

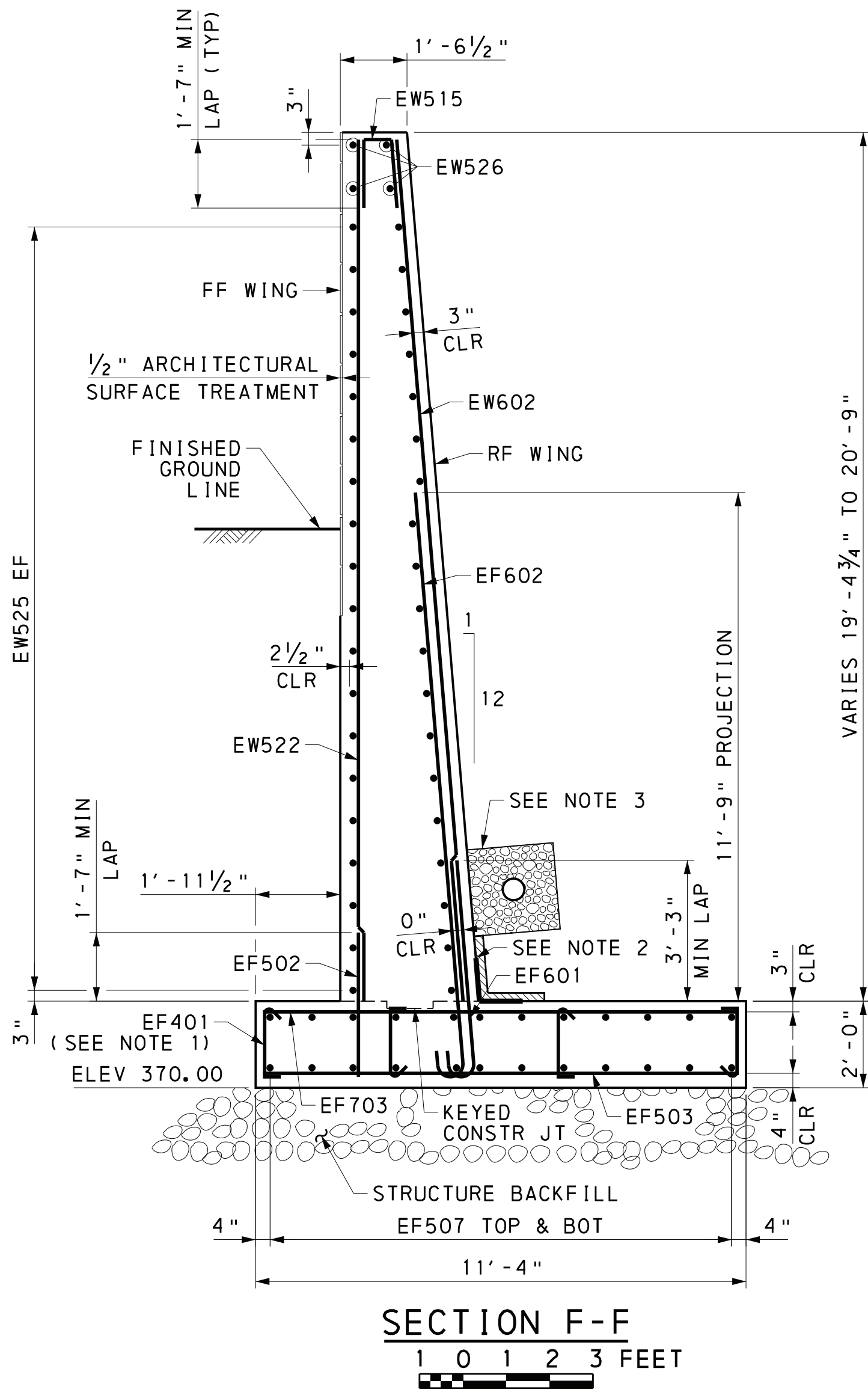
- 4 & 5
- 14 - 22
- 33
- 85

* FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".



NOTES:

1. TIE TOP & BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
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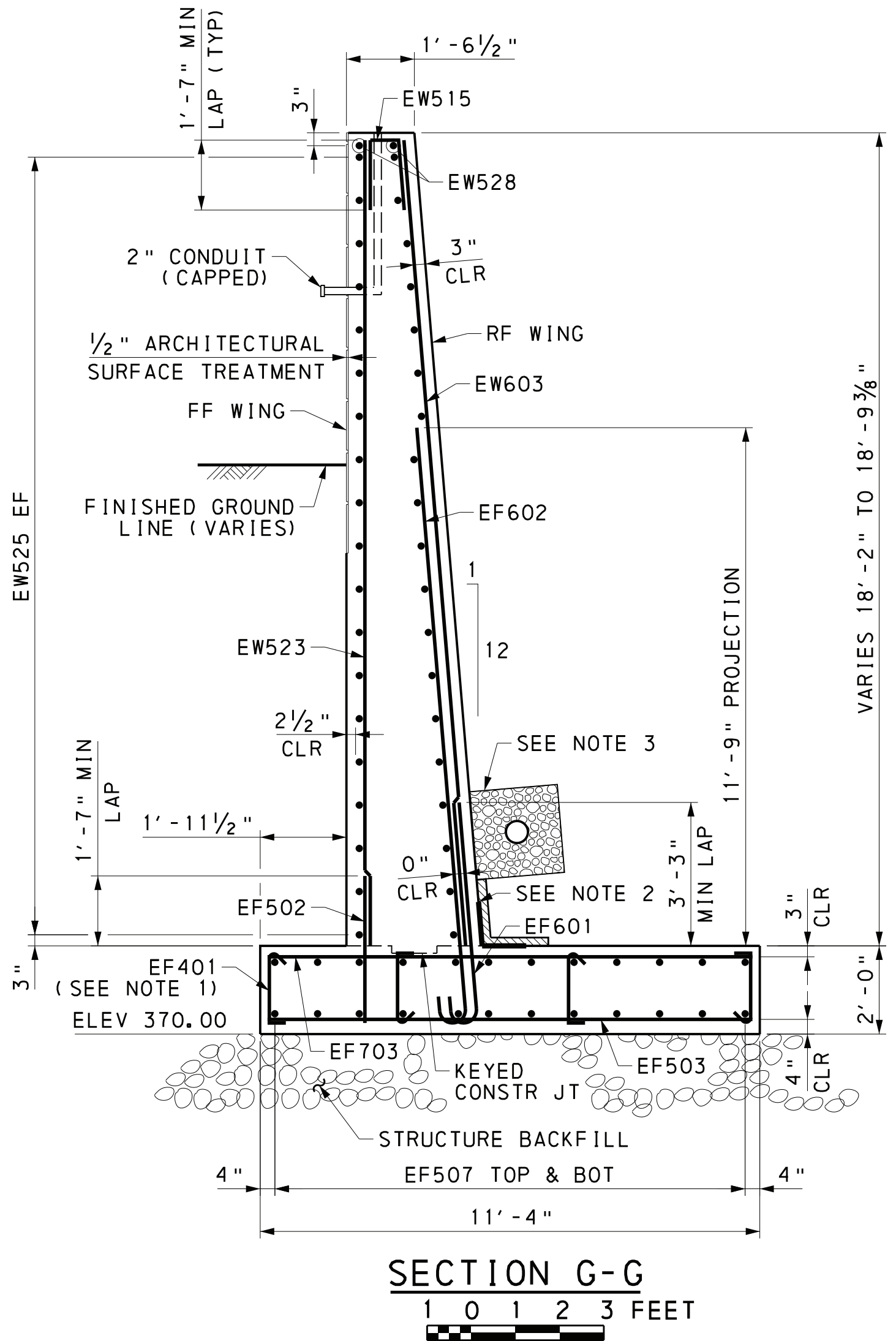


REFERENCES:

- GENERAL NOTES
ABUTMENT 1 DRAWINGS
ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

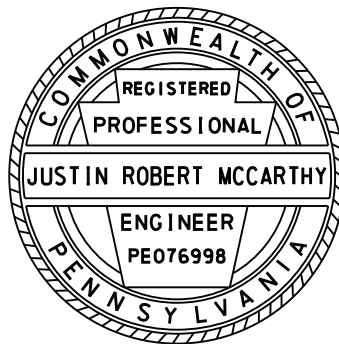
- 4 & 5
14 - 22
33



Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL B SECTIONS

RECOMMENDED 12-6-2022

SHEET 21 OF 93

S-39451

6/23/2022 6:30:16 a.m. br01-bar01.dgn

MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
ABUTMENT 1										
EF401	4	75	2' - 2 "	63	4 1/2 "	1' - 5 "	4 1/2 "			
EF501	5	30	56' - 2 3/4 "	STR						
EF502	5	75	3' - 4 "	STR						
EF701	7	115	14' - 4 "	STR						
EF702	7	45	14' - 9 "	65	10 "	13' - 11 "				J = 7 "
EF801	8	115	14' - 4 "	STR						
EF802	8	47	7' - 0 "	65	11 "	6' - 1 "				J = 8 "
EW301	3	124	9' - 9 "	STR						BEND IN FIELD
EW302	3	13	9' - 10 "	STR						BEND IN FIELD
EW303	3	13	8' - 8 "	STR						BEND IN FIELD
EW401	4	8	3' - 6 "	STR						
EW501	5	47	22' - 0 "	STR						
EW502	5	47	5' - 5 "	77	3' - 4 "	2' - 1 "				
EW503	5	47	8' - 8 "	78	4' - 7 "	4' - 1 "	2' - 3 1/4 "			
EW504	5	47	4' - 5 "	STR						
EW505	5	47	8' - 0 "	31	3' - 7 "	10 "	3' - 7 "			
EW506	5	50	52' - 3 "	STR						
EW507	5	10	48' - 6 "	STR						
EW508	5	14	22' - 2 "	STR						
EW509	5	14	22' - 0 "	STR						
EW510	5	16	5' - 9 "	STR						
EW511	5	16	5' - 10 "	STR						
EW801	8	47	19' - 3 "	STR						
WINGWALL A										
EF401	4	40	2' - 2 "	63	4 1/2 "	1' - 5 "	4 1/2 "			
EF502	5	41	3' - 4 "	STR						
EF503	5	42	11' - 0 "	STR						
EF504	5	24	34' - 5 3/4 "	STR						
EF505	5	12	8' - 0 "	77	6' - 4 "	1' - 8 "				
EF506	5	12	10' - 6 "	78	8' - 10 "	1' - 8 "	1' - 2 "			
EF601	6	35	5' - 8 "	65	8 "	5' - 0 "				J = 6 "
EF602	6	35	14' - 2 "	65	8 "	13' - 6 "				J = 6 "
EF703	7	71	11' - 0 "	STR						
EF803	8	6	7' - 0 "	65	11 "	6' - 1 "				J = 8 "
EF804	8	5	15' - 3 "	65	11 "	14' - 4 "				J = 8 "
EW512	5	6	25' - 9 " TO 26' - 0 "	STR						VARY EACH BY 5/8 "
EW513	5	35	18' - 9 " TO 20' - 9 "	STR						VARY EACH BY 3/4 "
EW514	5	6	4' - 4 "	33	1' - 8 "	1' - 0 "	1' - 8 "		1 5/8 "	
EW515	5	35	4' - 4 "	33	1' - 8 "	1' - 0 "	1' - 8 "		1 5/8 "	
EW516	5	10	4' - 9 "	STR						
EW517	5	40	39' - 7 "	STR						
EW518	5	2	39' - 8 "	STR						
EW519	5	2	13' - 3 "	STR						
EW520	5	2	26' - 5 "	STR						
EW601	6	35	18' - 9 " TO 20' - 9 "	STR						VARY EACH BY 3/4 "
EW802	8	6	25' - 9 " TO 26' - 0 "	STR						VARY EACH BY 5/8 "

NOTES:

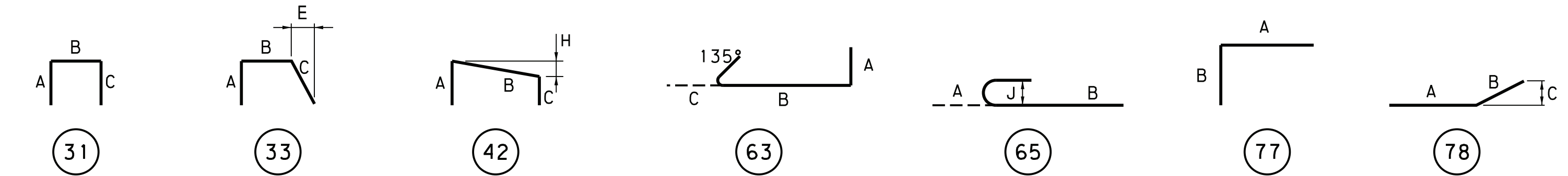
- "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.

REFERENCES:

GENERAL NOTES
ABUTMENT 1 DRAWINGS

SHEETS:

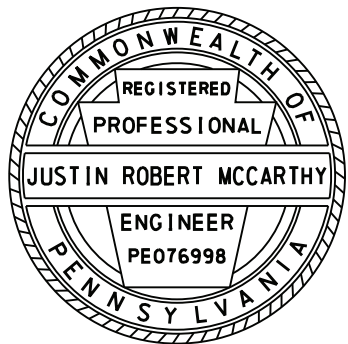
4 & 5
14 - 22



Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 1 REBAR SCHEDULE

RECOMMENDED 12-6-2022

SHEET 22 OF 93

S-39451

DES: SMZ | DES CKD: CEK | DWG: SMZ | DWG CKD: CEK

FOUNDATION PARAMETERS AT ABUTMENT 2		
BEARING CAPACITY	ABUTMENT 2	WINGWALL C & D
SECTION	TYPICAL	TYPICAL
BEARING RESISTANCE	10.39 KSF	14.47 KSF
MAX BEARING PRESSURE	8.95 KSF	6.68 KSF
PERFORMANCE RATIO	1.161	2.165
LIMIT STATE	STR-I	STR-I
LOAD CASE	MAX	MAX
STAGE	FINAL	FINAL
SLIDING CAPACITY	ABUTMENT 2	WINGWALL C & D
SECTION	TYPICAL	TYPICAL
SLIDING RESISTANCE	46.02 K	35.65 K
MAX HORIZONTAL FORCE	33.55 K	35.52 K
PERFORMANCE RATIO	1.372	1.004
LIMIT STATE	STR-I	STR-I
LOAD CASE	MIN	MIN
CONDITION	TEMPORARY	TEMPORARY

SPREAD FOOTING SOIL PARAMETERS	
ALLOWABLE SETTLEMENT	1.0 IN
BEARING CAPACITY PHI FACTOR	0.50
SLIDING PHI FACTOR	0.80
SOIL LAYER 1 THICKNESS	2.0 FT
LAYER 1 MASS UNIT WEIGHT	120 PCF
LAYER 1 SATURATED UNIT WEIGHT	125 PCF
LAYER 1 ELASTIC MODULUS	1584 KSF
LAYER 1 EFFECTIVE FRICTION ANGLE	34 DEG
SOIL LAYER 2 THICKNESS	6.25 FT*
LAYER 2 MASS UNIT WEIGHT	120 PCF
LAYER 2 SATURATED UNIT WEIGHT	125 PCF
LAYER 2 ELASTIC MODULUS	700 KSF
LAYER 2 EFFECTIVE FRICTION ANGLE	25 DEG

*11.25 FT AT STEPPED WINGS

NOTES:

- WORK POINTS ARE LOCATED AT THE FRONT FACE OF THE ARCHITECTURAL SURFACE TREATMENT.
- EXCAVATE EXISTING MATERIAL A MINIMUM OF 2'-0" BELOW BOTTOM OF FOOTING. PLACE STRUCTURE BACKFILL UNDERNEATH FOOTING IN COMPACTED LIFTS UP TO THE BOTTOM OF FOOTING ELEVATION.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

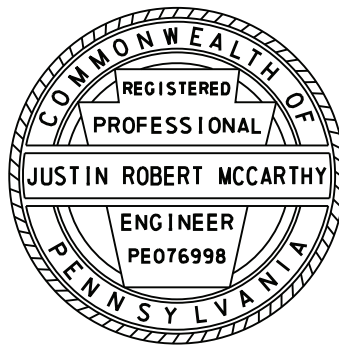
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 2 FOOTING PLAN

RECOMMENDED	12-6-2022	SHEET 23 OF 93
		S-39451

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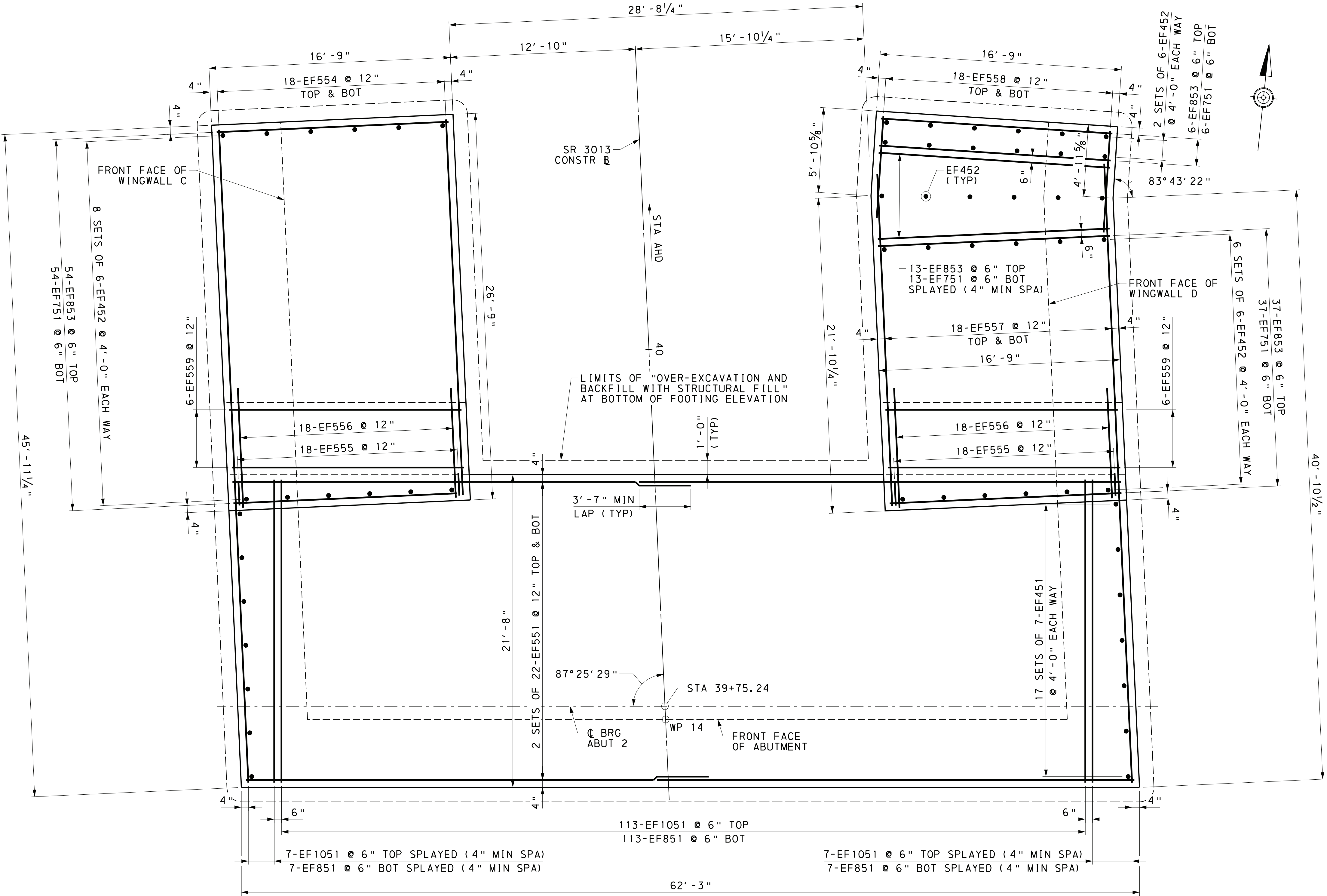
PREPARED BY:
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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

REFERENCES:

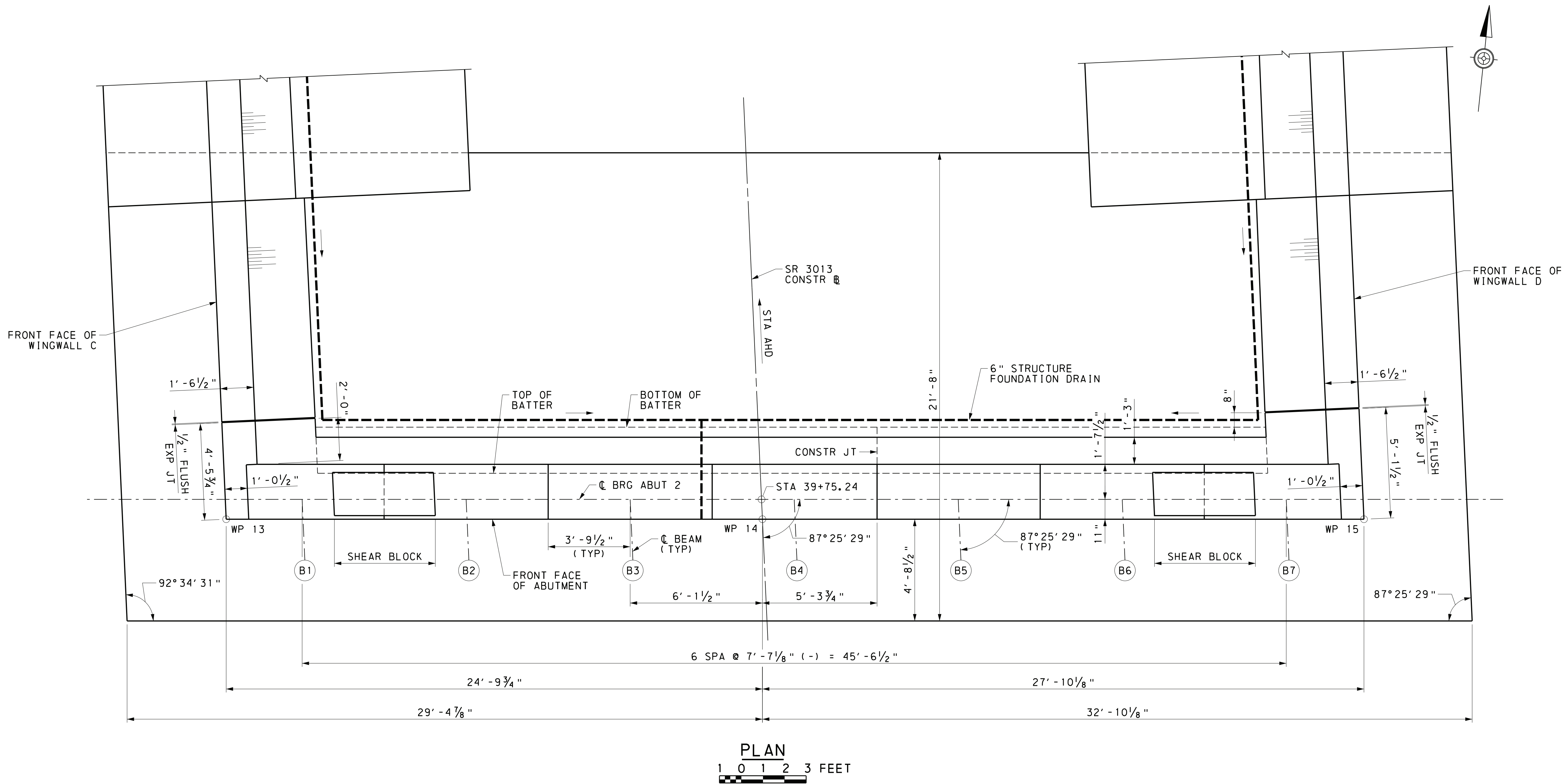
GENERAL NOTES
STAKE-OUT PLAN
ABUTMENT 2 DRAWINGS

SHEETS:

4 & 5
13
23 - 31



FOOTING PLAN
2 0 2 4 FEET



PLAN
1 0 1 2 3 FEET

- NOTES:**
1. WORK POINTS ARE LOCATED AT THE FRONT FACE OF THE ARCHITECTURAL SURFACE TREATMENT.

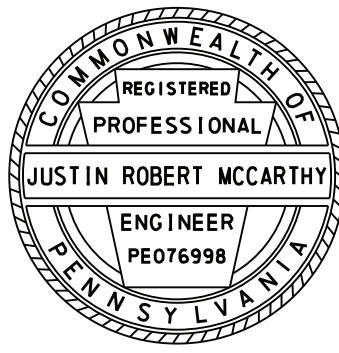
REFERENCES:

GENERAL NOTES
STAKE-OUT PLAN
ABUTMENT 2 DRAWINGS

SHEETS:

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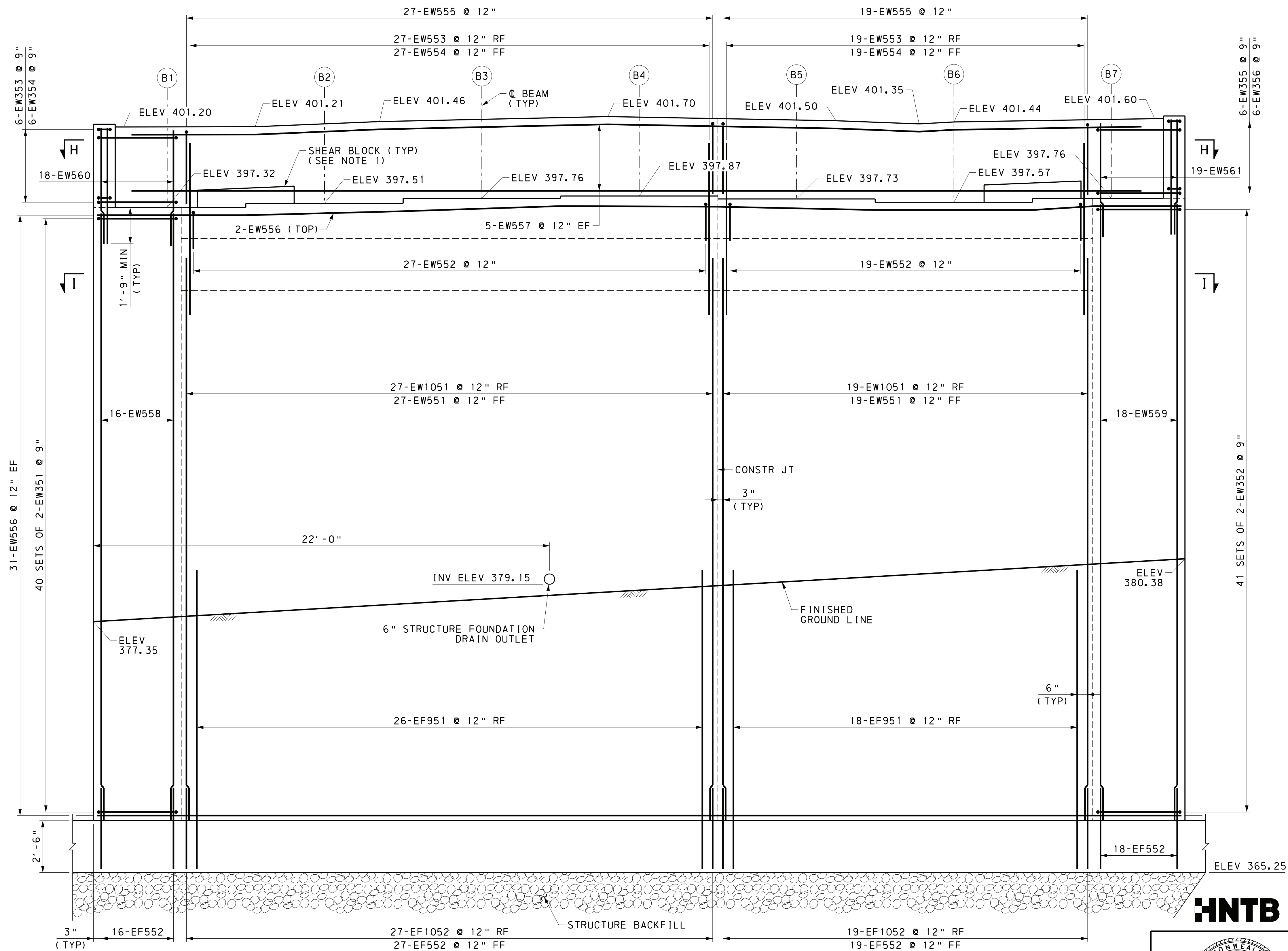
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 2 PLAN

RECOMMENDED 12-6-2022

SHEET 24 OF 93

S-39451



NOTES:

1. SHEAR BLOCK REINFORCEMENT NOT SHOWN FOR CLARITY.
2. BACKWALL ELEVATIONS GIVEN AT LOCATIONS OF SUPERSTRUCTURE BREAK POINTS.

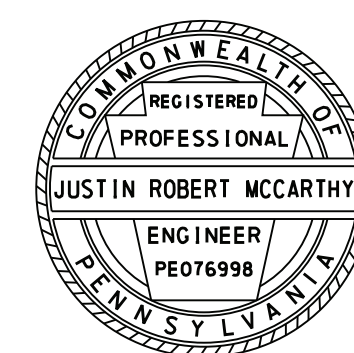
REFERENCES:

GENERAL NOTES
ABUTMENT 2 DRAWINGS
MISCELLANEOUS ABUTMENT DETAILS
ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

4 & 5
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Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

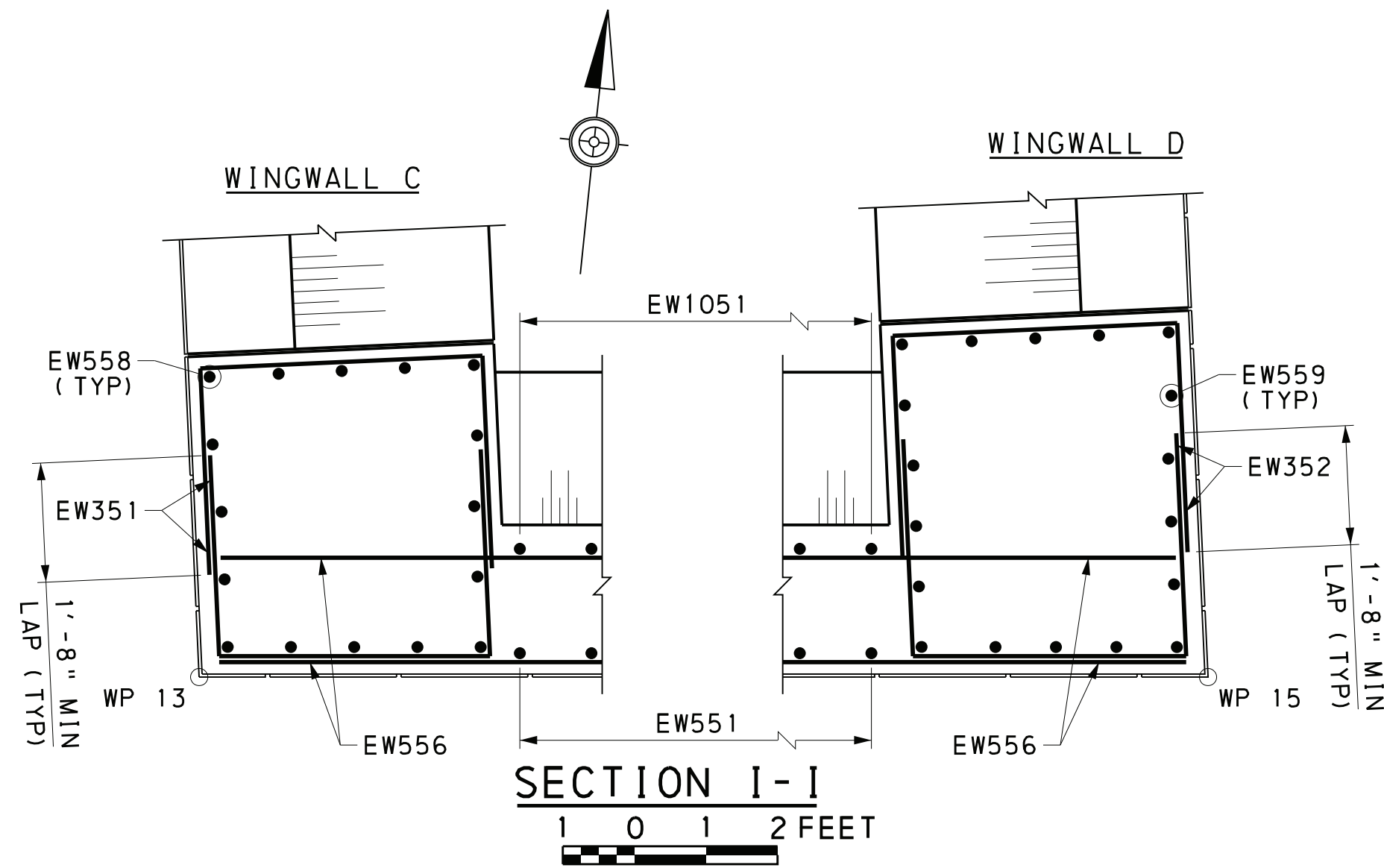
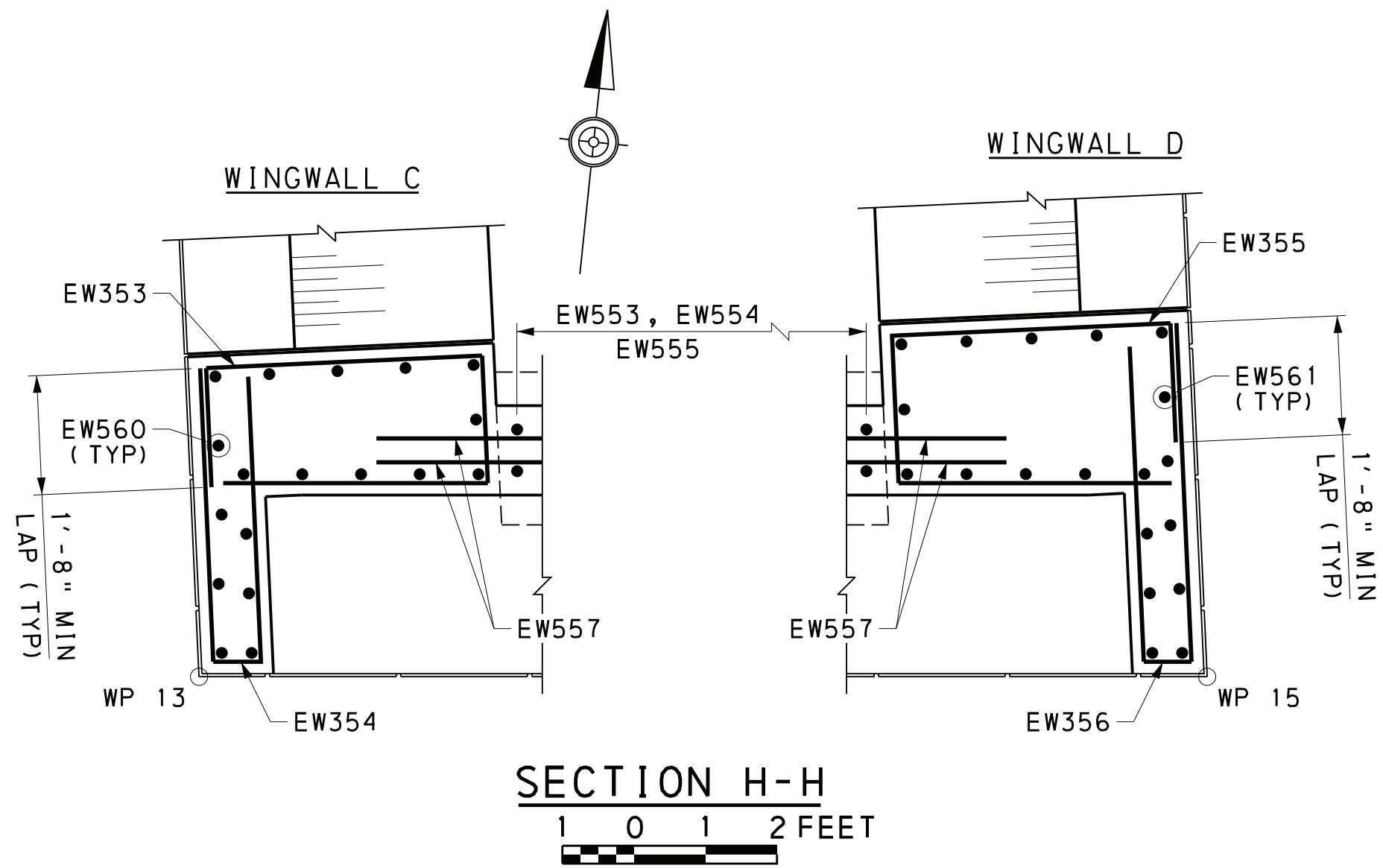
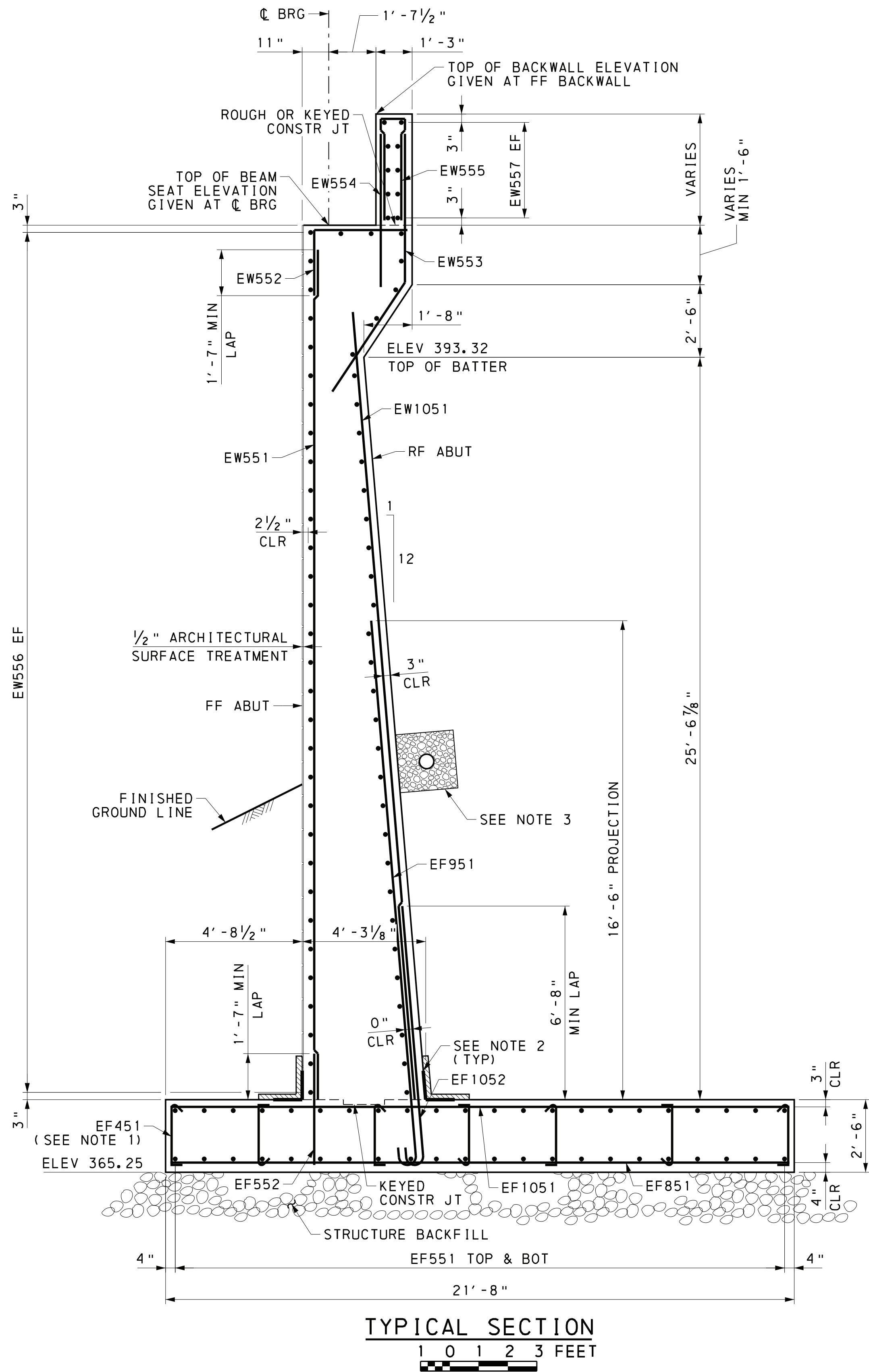
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 2 ELEVATION

RECOMMENDED 12-6-2022

SHEET 25 OF 93

S-39451

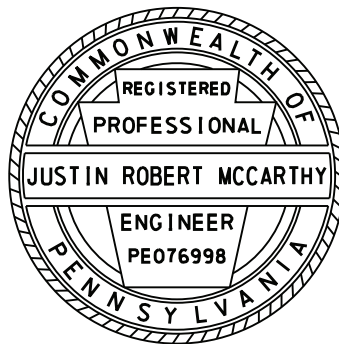


- NOTES:
1. TIE TOP & BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
 2. FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".
 3. 6" STRUCTURE FOUNDATION DRAIN WITHIN CONTINUOUS 2' x 2' OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1. SEE PUB 408 SECTION 1001.3(d) AND BC-751M.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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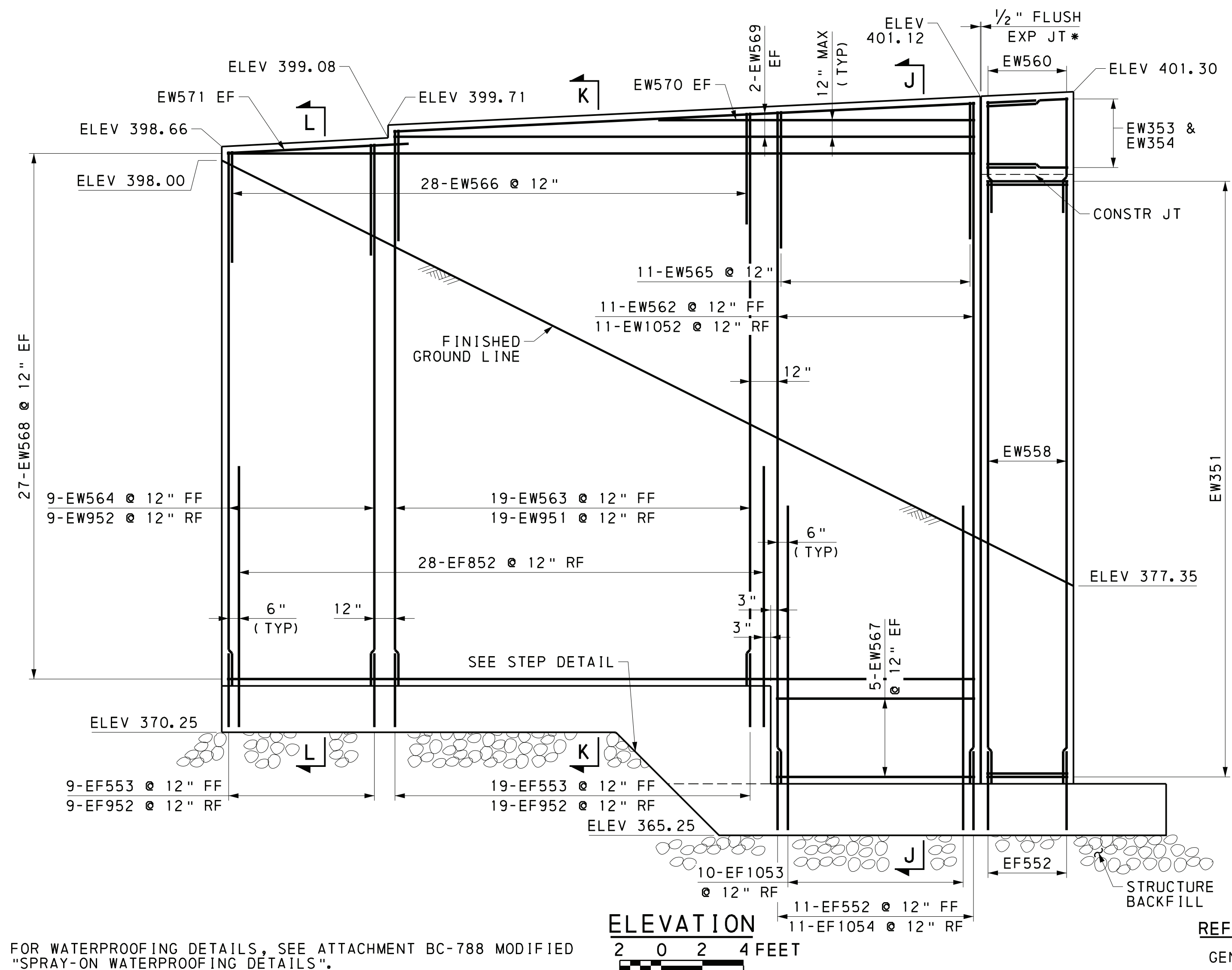
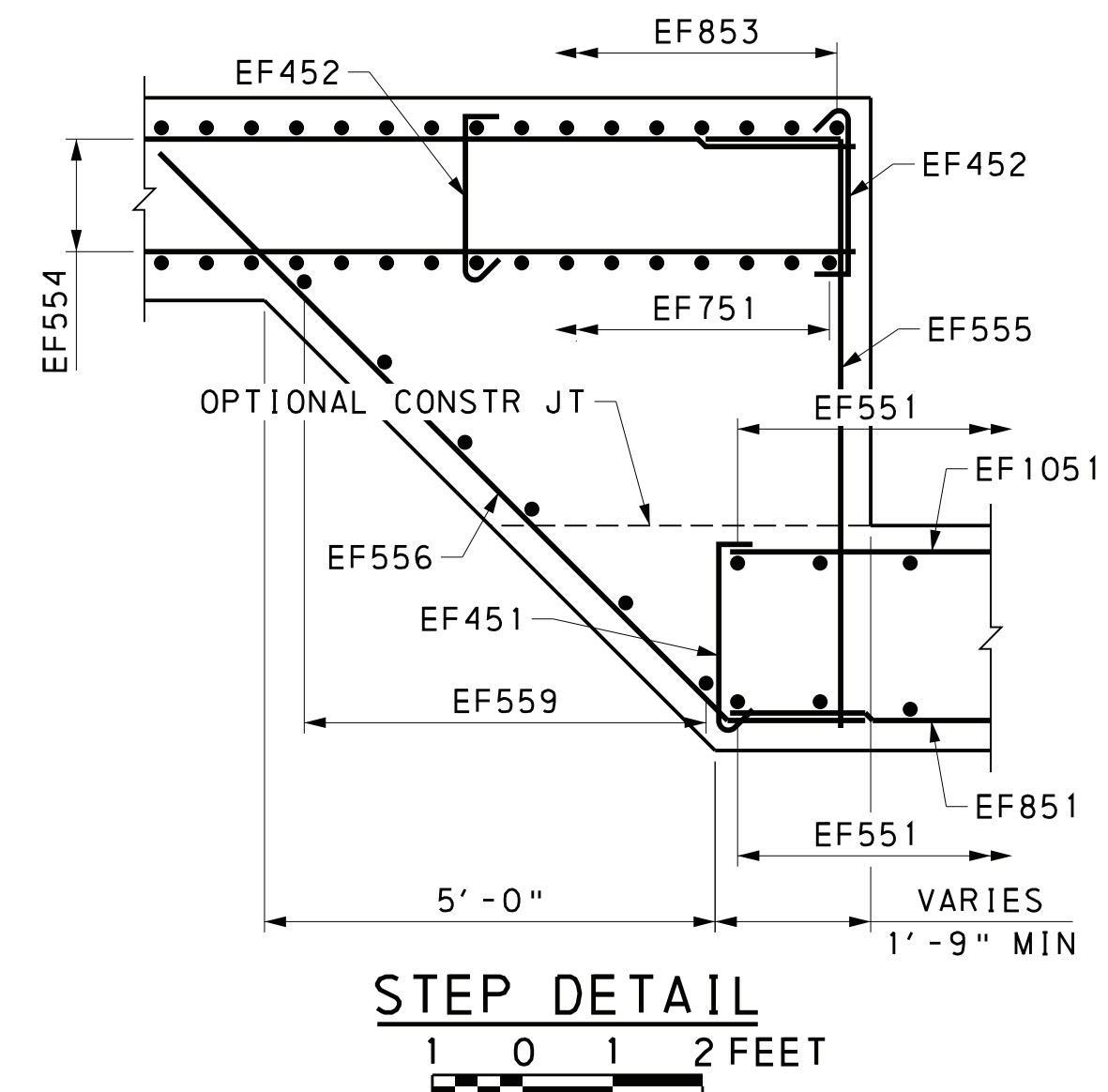
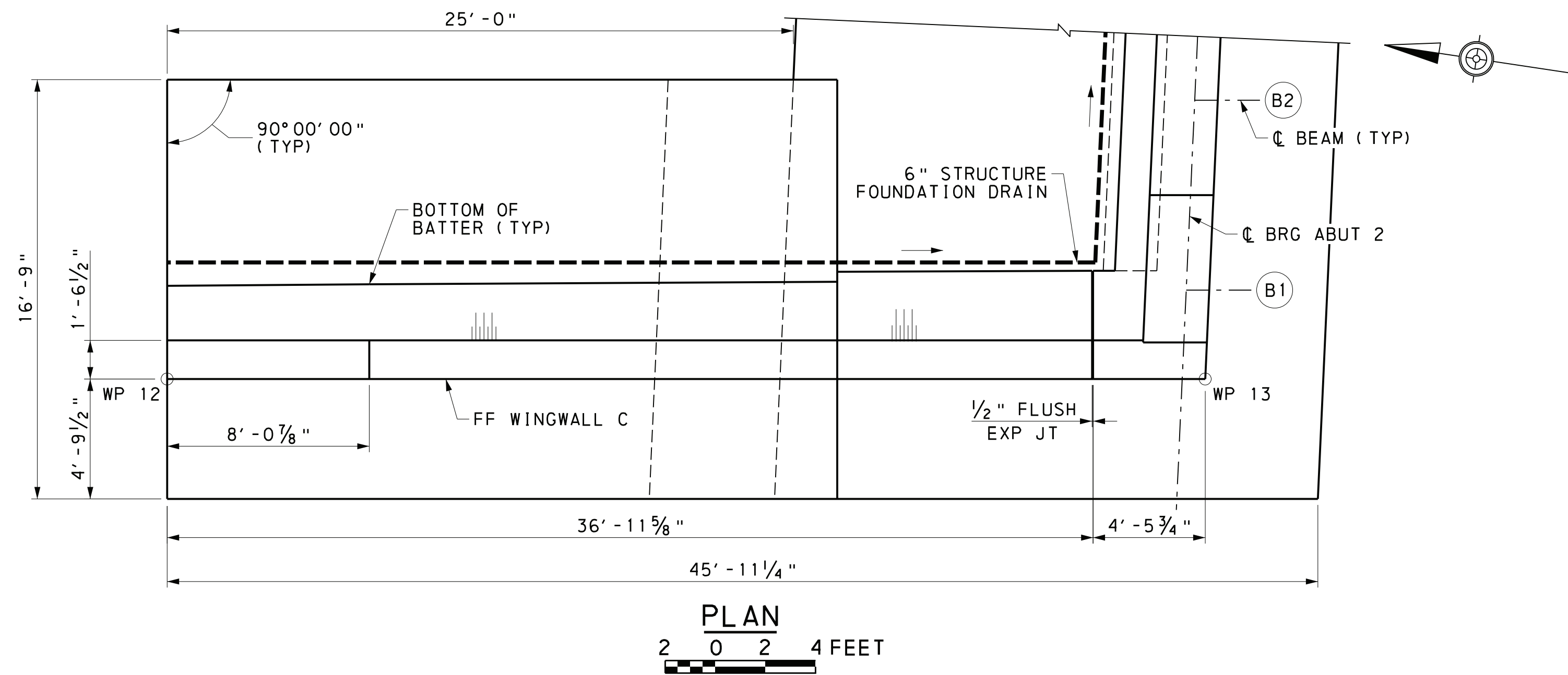


PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE ABUTMENT 2 SECTION & DETAILS	
RECOMMENDED 12-6-2022	SHEET 26 OF 93
S-39451	

REFERENCES:	SHEETS:
GENERAL NOTES	4 & 5
ABUTMENT 2 DRAWINGS	23 - 31
MISCELLANEOUS ABUTMENT DETAILS	32
ABUTMENT ARCHITECTURAL DETAILS	33

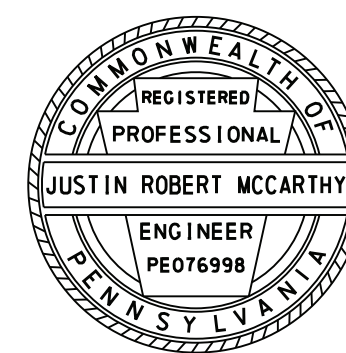
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Mark	Description	By	Chk' d	Recm' d	Date
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SR 3013 PREVIOUSLY KNOWN AS LR 22075
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DEPARTMENT OF TRANSPORTATION
DAUPHIN COUNTY
SR 0083 SECTION 079
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SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL C PLAN & ELEVATION

RECOMMENDED 12-6-2022

SHEET 27 OF 93

S-39451

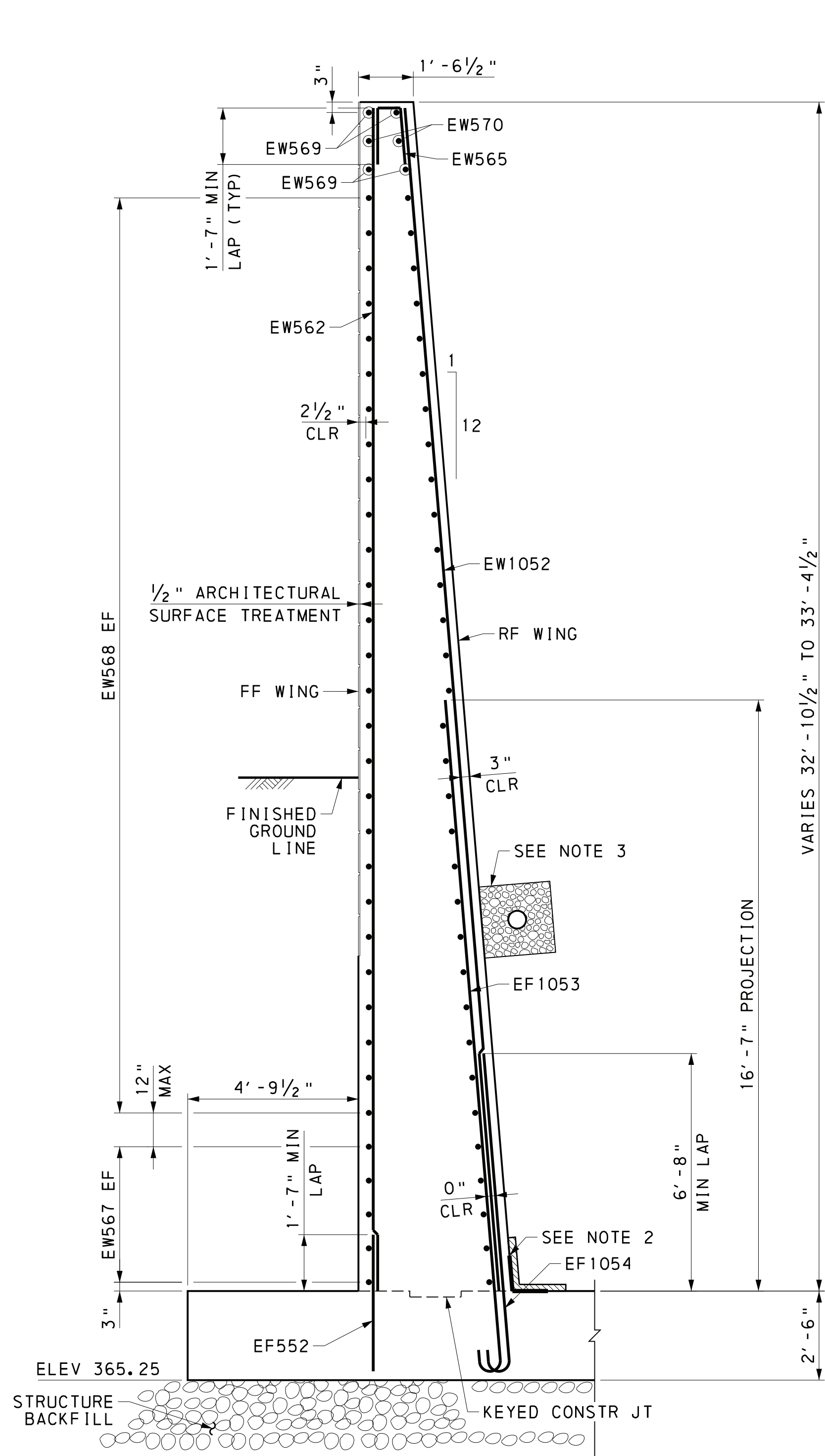
* FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".

REFERENCES:

GENERAL NOTES
ABUTMENT 2 DRAWINGS
ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

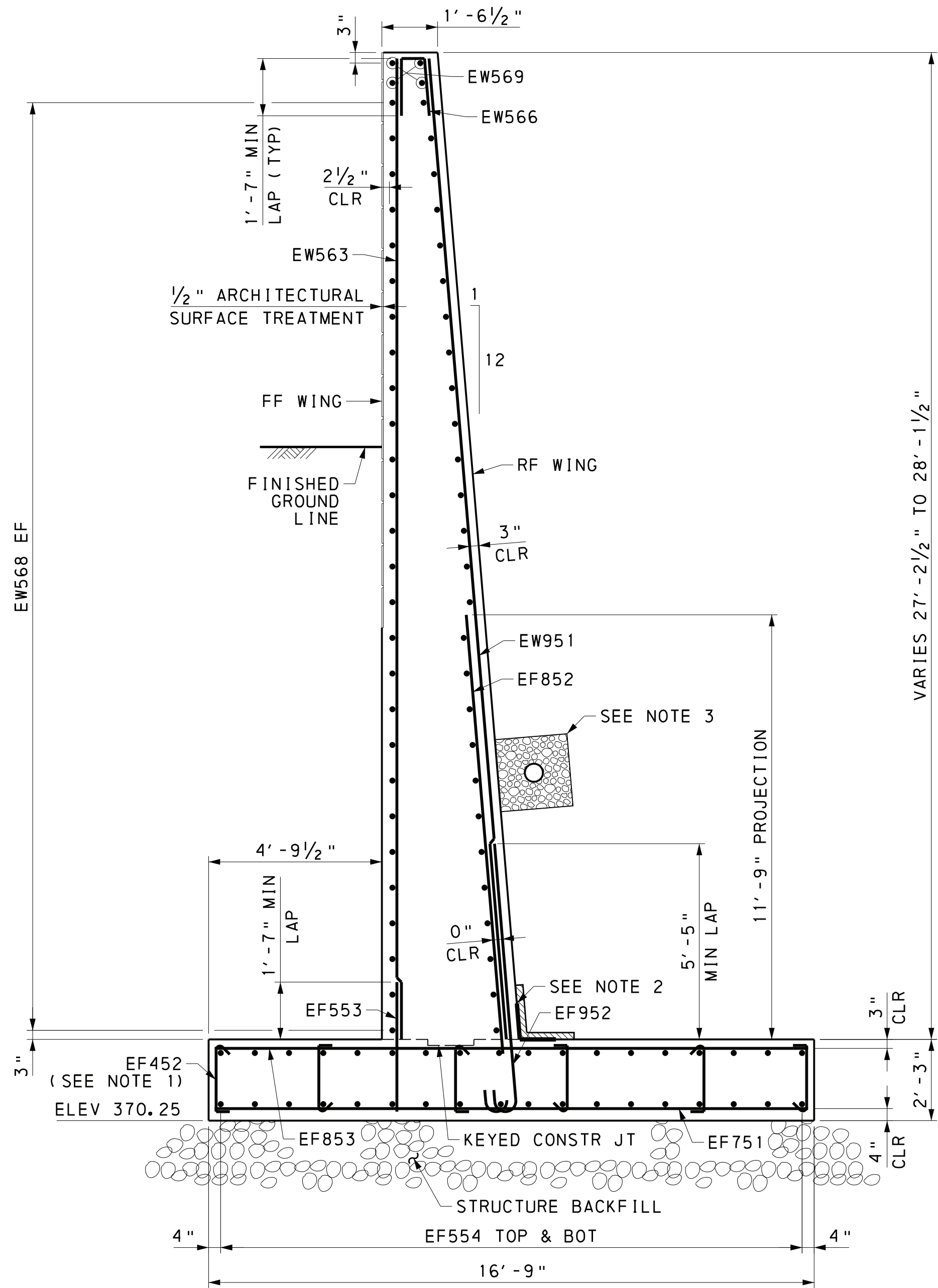
4 & 5
23 - 31
33



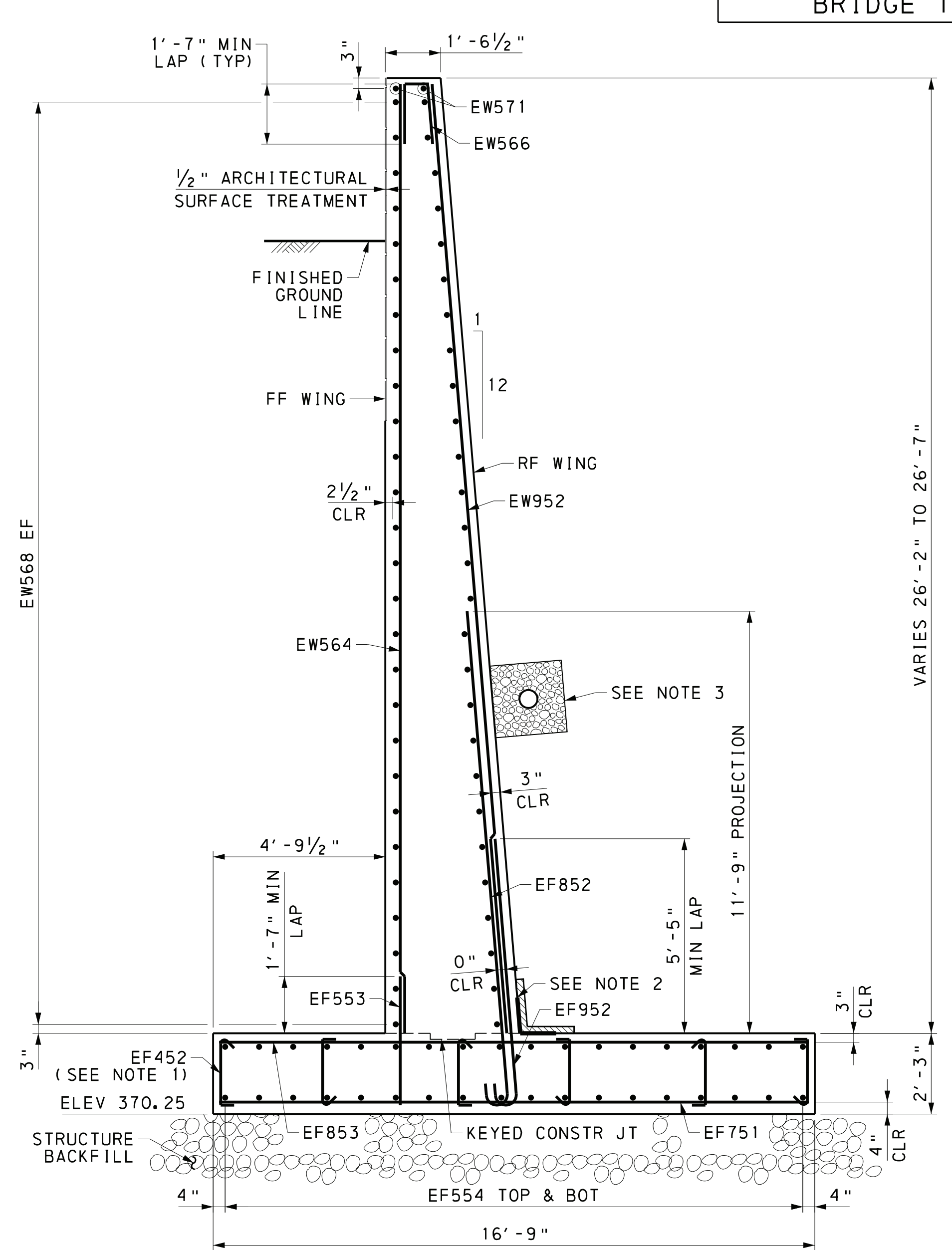
SECTION J-J
1 0 1 2 3 FEET

NOTES:

- TIE TOP & BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
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SECTION K-K
1 0 1 2 3 FEET



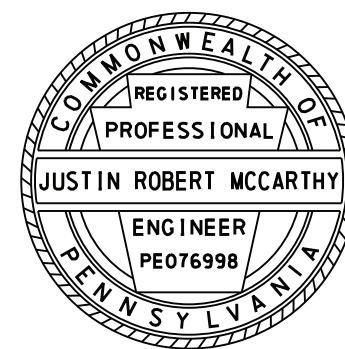
SECTION L-L
1 0 1 2 3 FEET

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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RECOMMENDED 12-6-2022

SHEET 28 OF 93

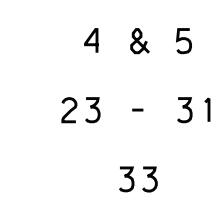
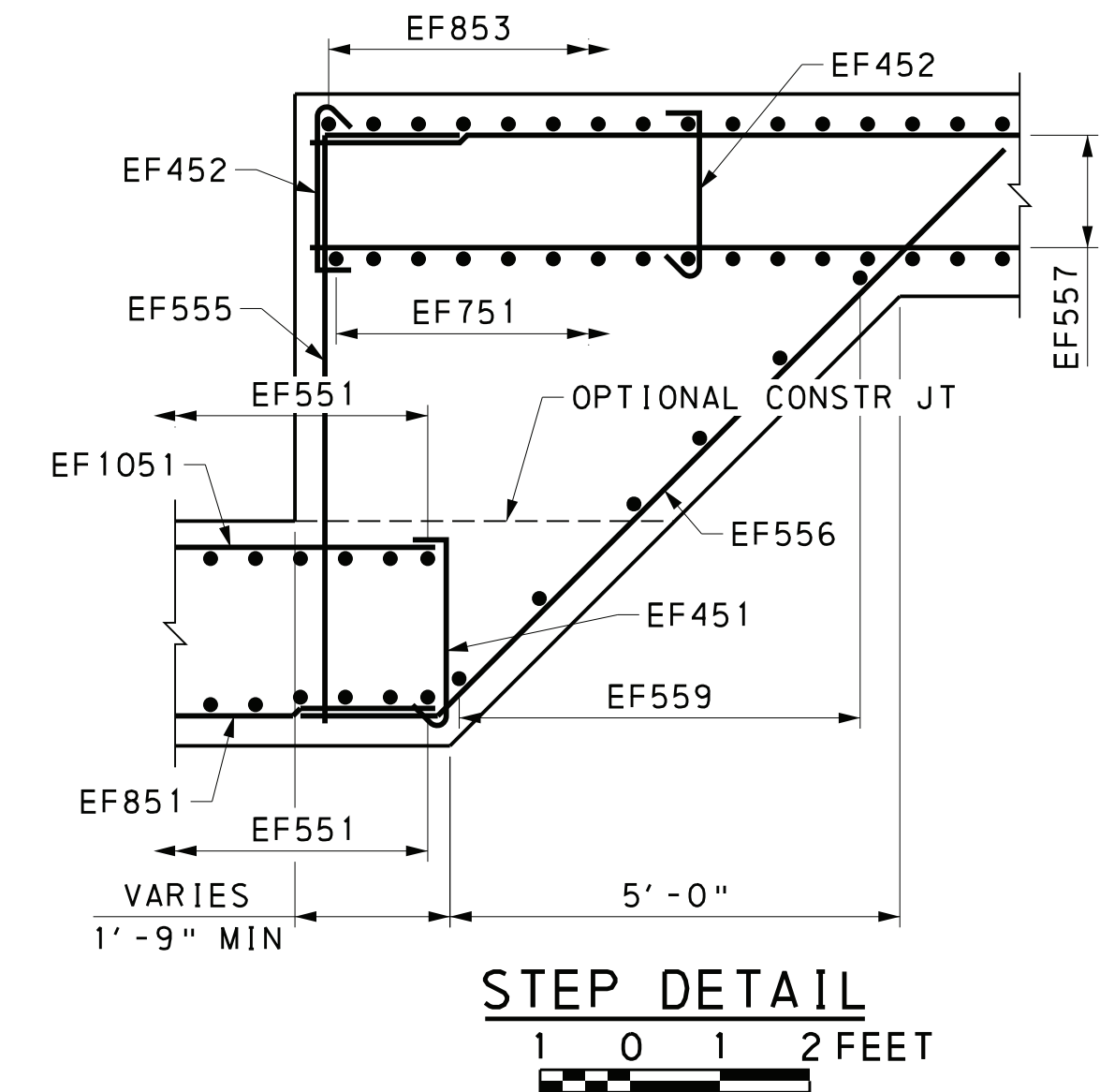
S-39451

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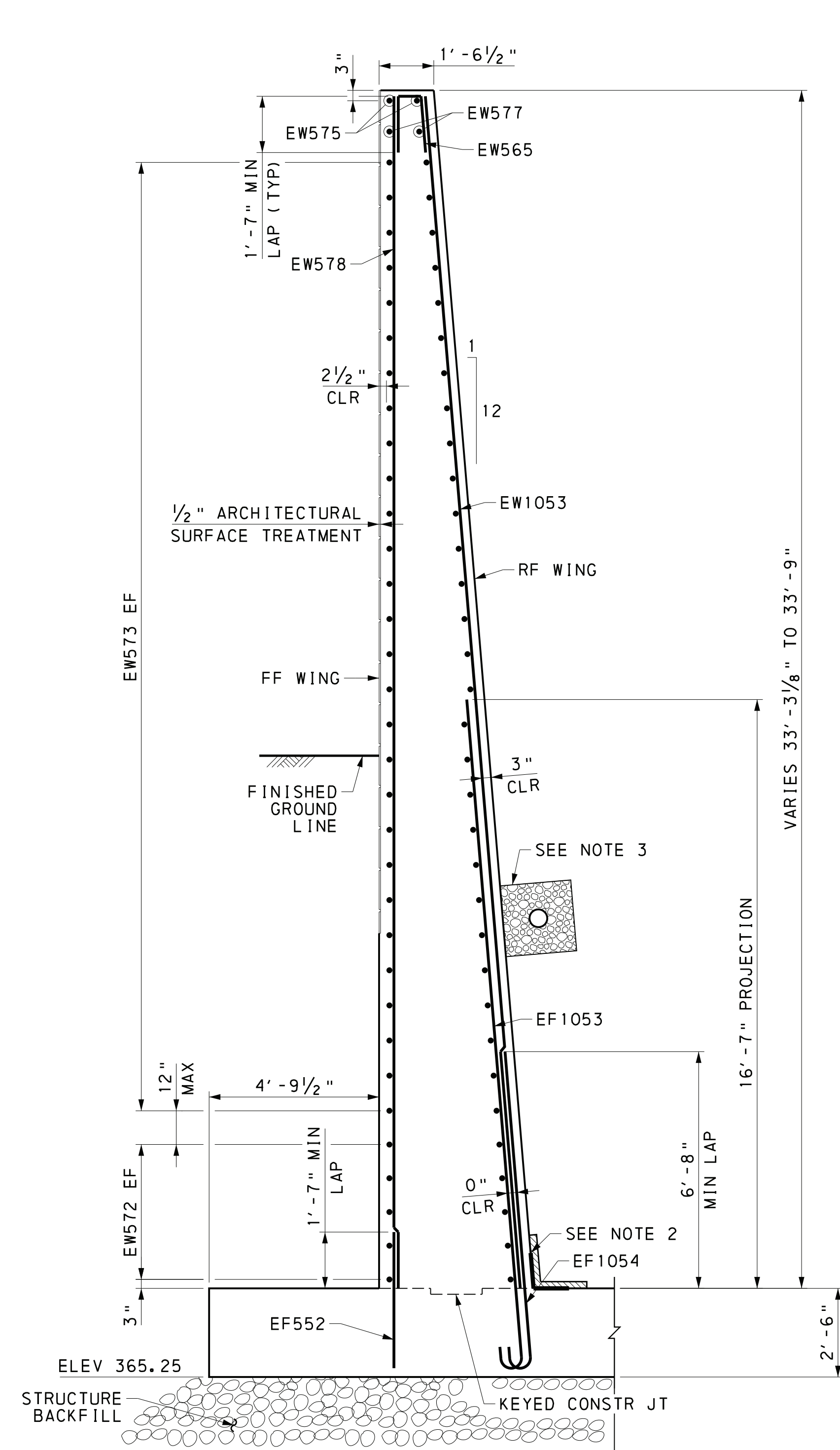
GENERAL NOTES
ABUTMENT 2 DRAWINGS
MISCELLANEOUS ABUTMENT DETAILS
ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

4 & 5
23 - 31
32
33



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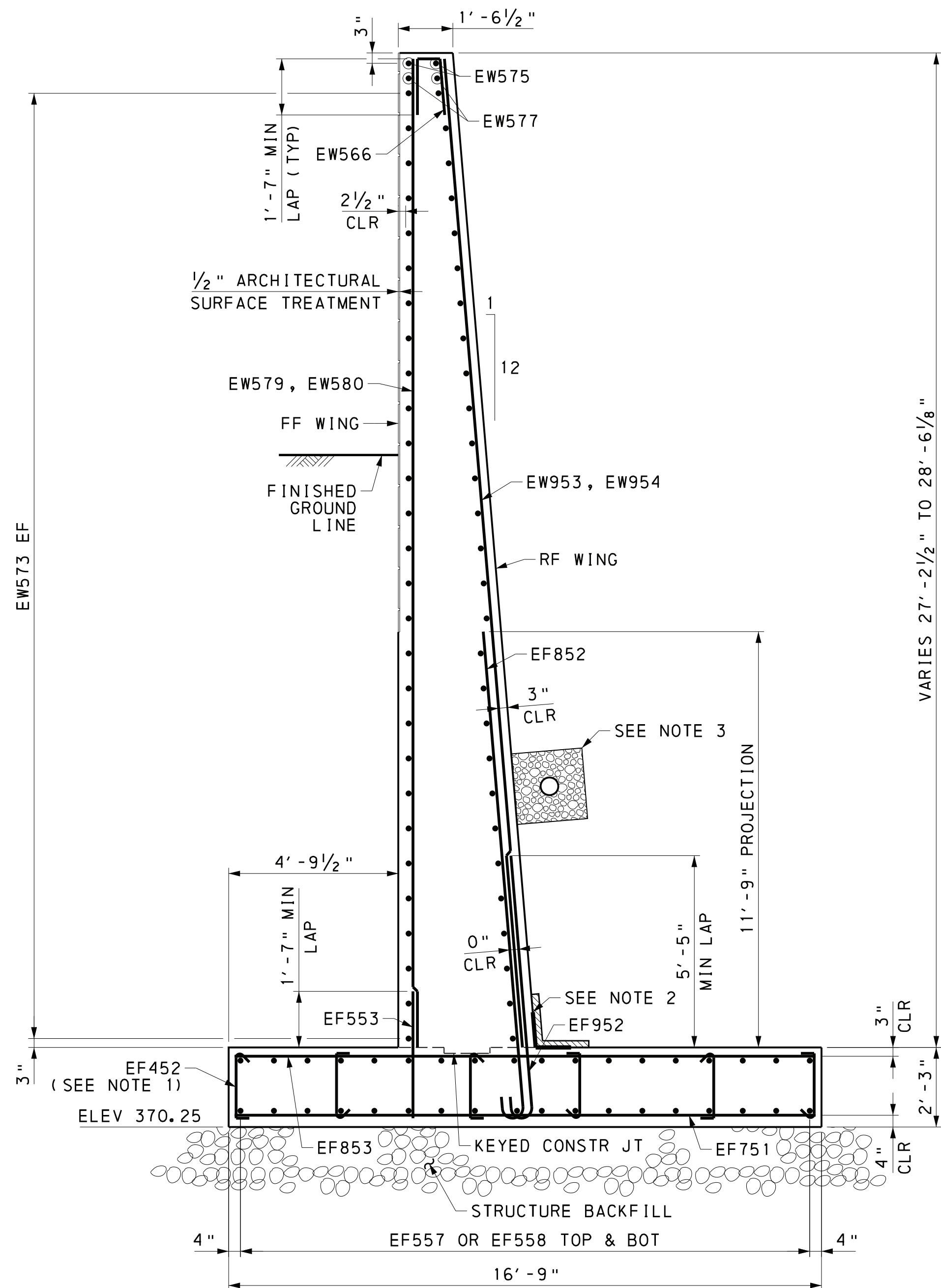


(ABUTMENT FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY)

SECTION M-M
1 0 1 2 3 FEET

NOTES:

1. TIE TOP & BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
2. FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".
3. 6" STRUCTURE FOUNDATION DRAIN WITHIN CONTINUOUS 2' x 2' OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1. SEE PUB 408 SECTION 1001.3(d) AND BC-751M.



SECTION N-N
1 0 1 2 3 FEET

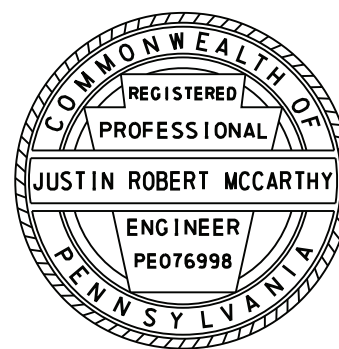
REFERENCES:

- GENERAL NOTES
- ABUTMENT 2 DRAWINGS
- MISCELLANEOUS ABUTMENT DETAILS
- ABUTMENT ARCHITECTURAL DETAILS

SHEETS:

- 4 & 5
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- 32
- 33

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Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

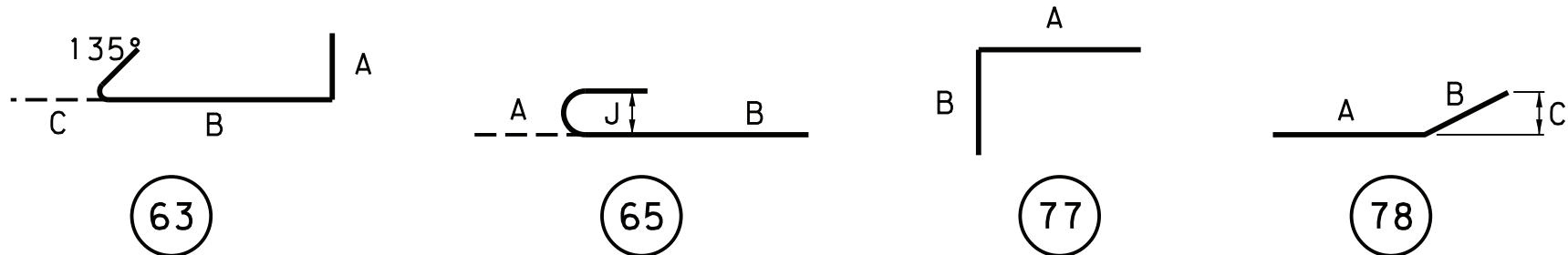
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
WINGWALL D SECTIONS

RECOMMENDED 12-6-2022	SHEET 30 OF 93
	S-39451

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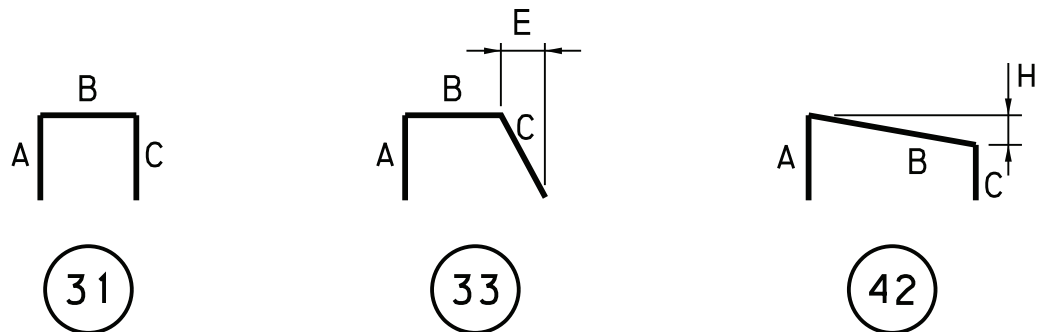
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MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS	
ABUTMENT 2											
EF451	4	119	2'-8"	63	4 1/2"	1'-11"	4 1/2"				
EF551	5	88	32'-9"	STR							
EF552	5	80	3'-10"	STR							
EF851	8	127	21'-4"	STR							
EF951	9	44	20'-0"	65	1'-3"	18'-9"				J = 11 3/4"	
EF1051	10	127	21'-4"	STR							
EF1052	10	46	10'-4"	65	1'-5"	8'-11"				J = 1'-1 1/4"	
EW351	3	80	10'-4"	STR						BEND IN FIELD	
EW352	3	82	11'-0"	STR						BEND IN FIELD	
EW353	3	6	11'-2"	STR						BEND IN FIELD	
EW354	3	6	8'-9"	STR						BEND IN FIELD	
EW355	3	6	11'-5"	STR						BEND IN FIELD	
EW356	3	6	10'-0"	STR						BEND IN FIELD	
EW451	4	8	3'-6"	STR							
EW551	5	46	29'-4"	STR							
EW552	5	46	5'-7"	77	3'-4"	2'-3"					
EW553	5	46	8'-10"	78	4'-9"	4'-1"	2'-3 1/4"				
EW554	5	46	4'-5"	STR							
EW555	5	46	7'-10"	31	3'-6"	10"	3'-6"				
EW556	5	64	52'-3"	STR							
EW557	5	10	47'-3"	STR							
EW558	5	16	29'-4"	STR							
EW559	5	18	29'-10"	STR							
EW560	5	18	5'-9"	STR							
EW561	5	19	5'-10"	STR							
EW1051	10	46	26'-7"	STR							
WINGWALL C											
EF452	4	48	2'-5"	63	4 1/2"	1'-8"	4 1/2"				
EF552	5	11	3'-10"	STR							
EF553	5	28	3'-7"	STR							
EF554	5	36	26'-5"	STR							
EF555	5	18	8'-3"	77	6'-7"	1'-8"					
EF556	5	18	10'-10"	78	9'-2"	1'-8"	1'-2"				
EF559	5	6	16'-5"	STR							
EF751	7	54	16'-5"	STR							
EF852	8	28	14'-8"	65	11"	13'-9"				J = 8"	
EF853	8	54	16'-5"	STR							
EF952	9	28	8'-8"	65	1'-3"	7'-5"				J = 11 3/4"	
EF1053	10	10	20'-3"	65	1'-5"	18'-10"				J = 1'-1 1/4"	
EF1054	10	11	10'-4"	65	1'-5"	8'-11"				J = 1'-1 1/4"	
EW562	5	11	32'-8" TO 33'-2"	STR						VARY EACH BY 5/8"	
EW563	5	19	27'-0" TO 27'-11"	STR						VARY EACH BY 5/8"	
EW564	5	9	25'-11" TO 26'-4"	STR						VARY EACH BY 5/8"	
EW565	5	11	4'-4"	33	1'-8"	1'-0"	1'-8"		1 5/8"		
EW566	5	28	4'-4"	33	1'-8"	1'-0"	1'-8"		1 5/8"		
EW567	5	10	9'-10"	STR							
EW568	5	54	36'-7"	STR							
EW569	5	4	28'-6"	STR							
EW570	5	2	14'-3"	STR							
EW571	5	2	8'-11"	STR							
EW951	9	19	27'-0" TO 27'-11"	STR						VARY EACH BY 5/8"	
EW952	9	9	25'-11" TO 26'-4"	STR						VARY EACH BY 5/8"	
EW1052	10	11	32'-8" TO 33'-2"	STR						VARY EACH BY 5/8"	



MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
WINGWALL D										
EF452	4	54	2'-5"	63	4 1/2"	1'-8"	4 1/2"			
EF552	5	11	3'-10"	STR						
EF553	5	28	3'-7"	STR						
EF555	5	18	8'-3"	77	6'-7"	1'-8"				
EF556	5	18	10'-10"	78	9'-2"	1'-8"	1'-2"			
EF557	5	36	21'-9"	STR						
EF558	5	36	5'-9"	STR						
EF559	5	6	16'-5"	STR						
EF751	7	56	16'-5"	STR						
EF852	8	27	14'-8"	65	11"	13'-9"				J = 8"
EF853	8	56	16'-5"	STR						
EF952	9	28	8'-8"	65	1'-3"	7'-5"				J = 11 3/4"
EF1053	10	10	20'-3"	65	1'-5"	18'-10"				J = 1'-1 1/4"
EF1054	10	11	10'-4"	65	1'-5"	8'-11"				J = 1'-1 1/4"
EW565	5	11	4'-4"	33	1'-8"	1'-0"	1'-8"		1 5/8"	
EW566	5	28	4'-4"	33	1'-8"	1'-0"	1'-8"		1 5/8"	
EW572	5	10	9'-6"	STR						
EW573	5	56	35'-10"	78	30'-10"	5'-0"	6 1/2"			
EW575	5	2	35'-10"	78	30'-10"	5'-0"	6 1/2"			
EW577	5	2	18'-6"	STR						
EW578	5	11	33'-1" TO 33'-7"	STR						VARY EACH BY 5/8"
EW579	5	22	27'-3" TO 28'-4"	STR						VARY EACH BY 5/8"
EW580	5	6	27'-0" TO 27'-3"	STR						VARY EACH BY 5/8"
EW953	9	22	27'-3" TO 28'-4"	STR						VARY EACH BY 5/8"
EW954	9	6	27'-0" TO 27'-3"	STR						VARY EACH BY 5/8"
EW1053	10	11	33'-1" TO 33'-7"	STR						VARY EACH BY 5/8"
SHEAR BLOCKS										
EW598	5	12	6'-8"	31	2'-6"	1'-8"	2'-6"			
EW599	5	6	9'-0"	42	2'-4"	4'-4"	2'-4"			H = 2"

NOTES:

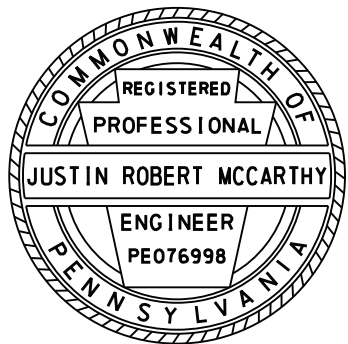
- "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
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PREPARED BY:
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SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

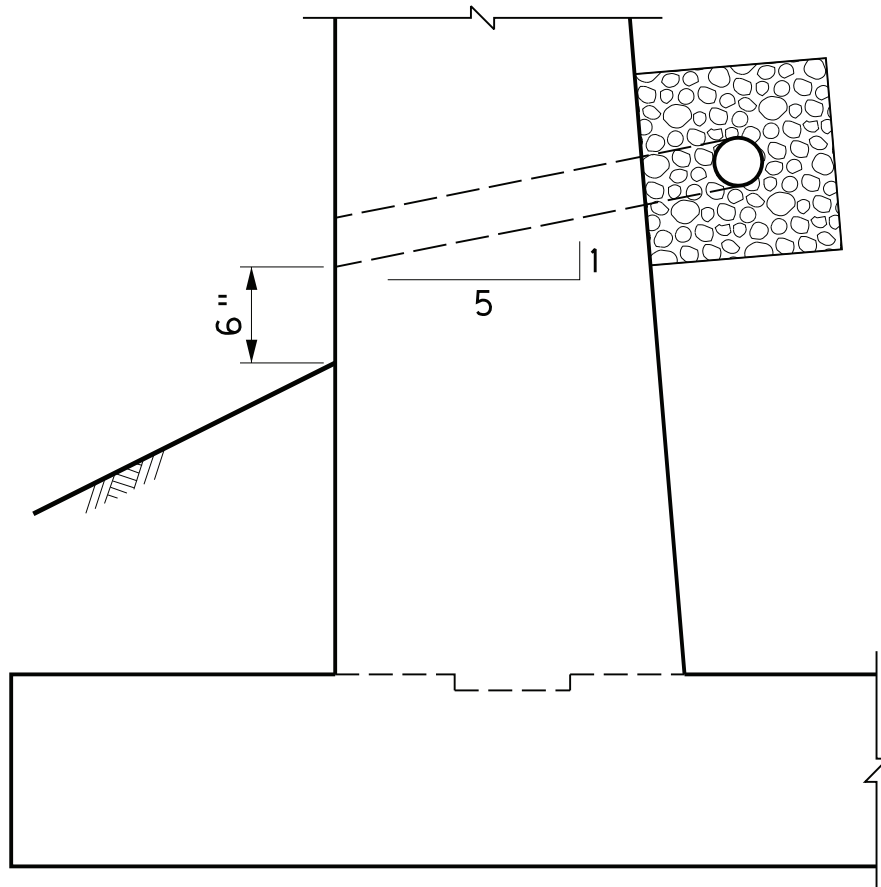
DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT 2 REBAR SCHEDULE

RECOMMENDED 12-6-2022

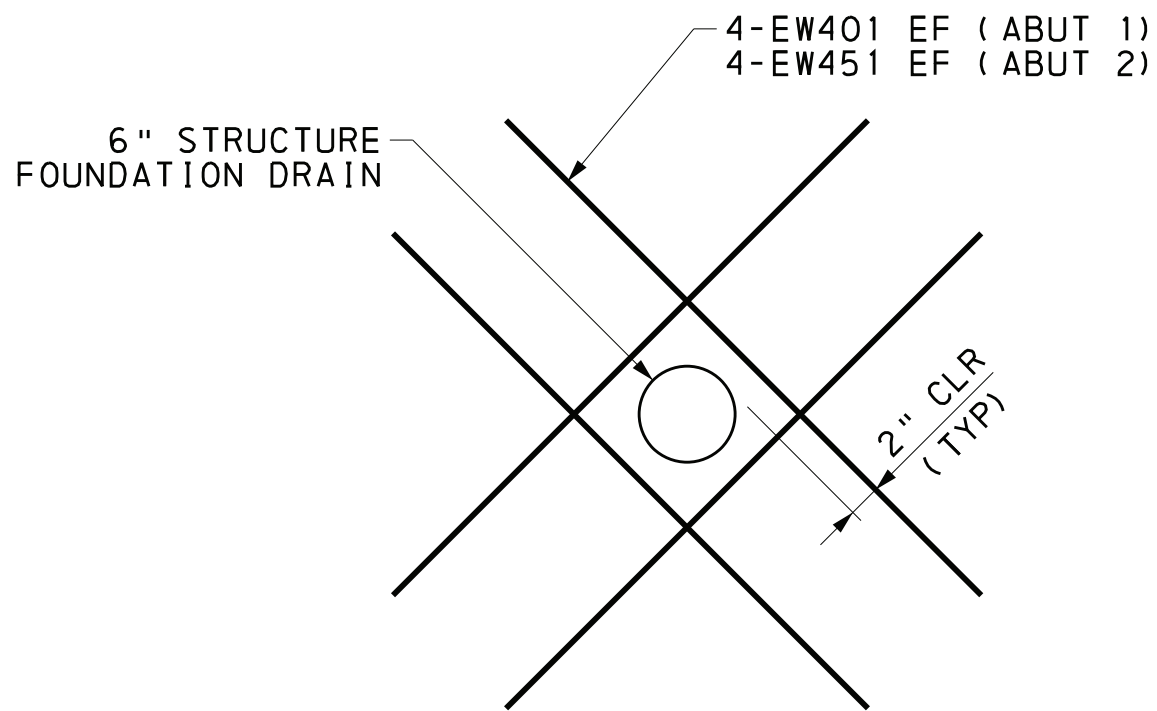
SHEET 31 OF 93

S-39451

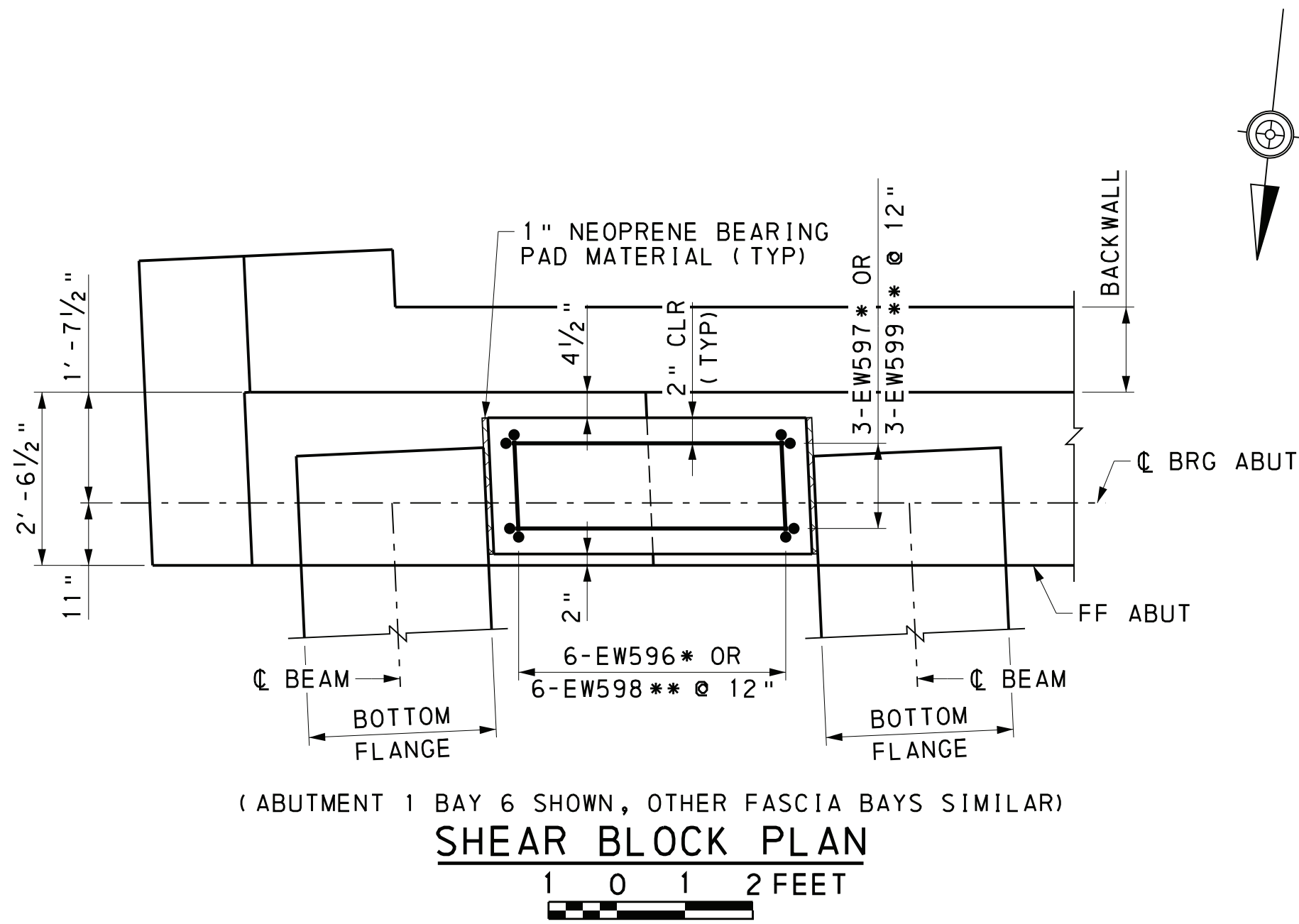
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STRUCTURE FOUNDATION DRAIN OUTLET DETAIL
NOT TO SCALE



STRUCTURE FOUNDATION DRAIN REINFORCEMENT DETAIL
NOT TO SCALE

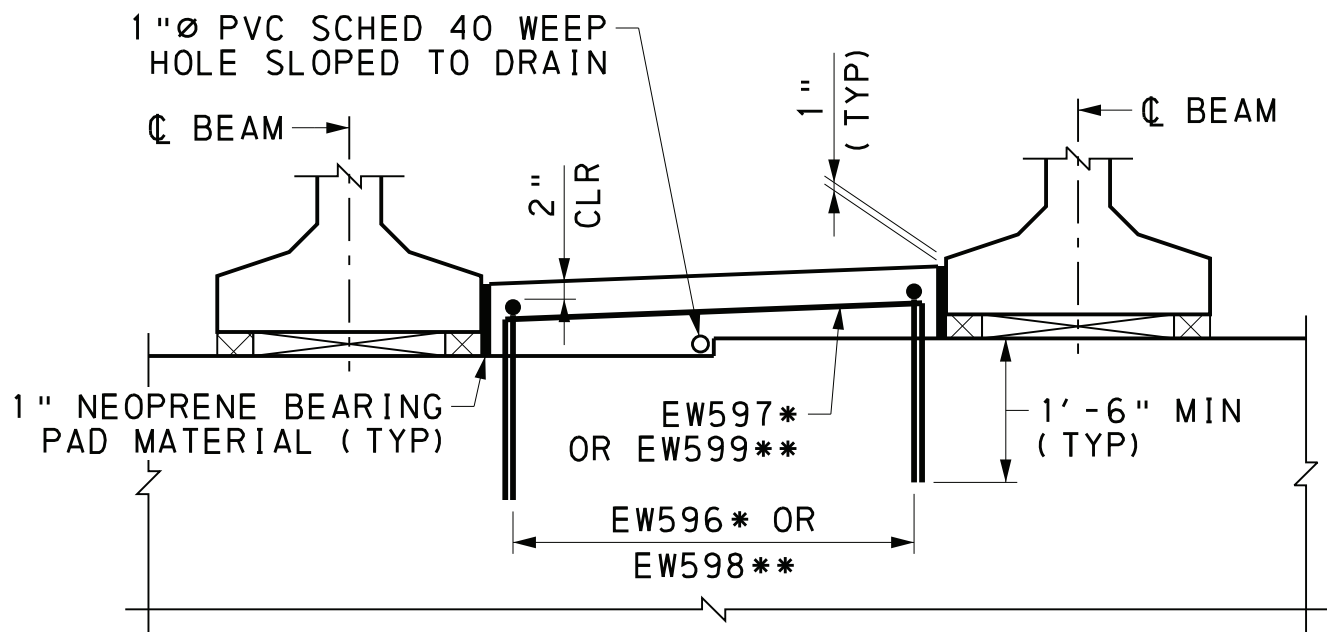


(ABUTMENT 1 BAY 6 SHOWN, OTHER FASCIA BAYS SIMILAR)

SHEAR BLOCK PLAN

1 0 1 2 FEET

* ABUTMENT 1
** ABUTMENT 2



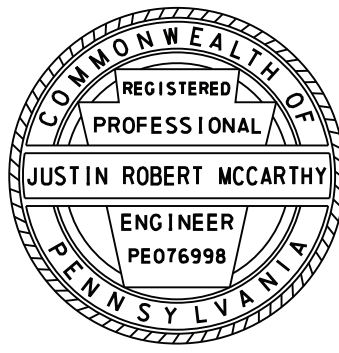
SHEAR BLOCK ELEVATION

1 0 1 2 FEET

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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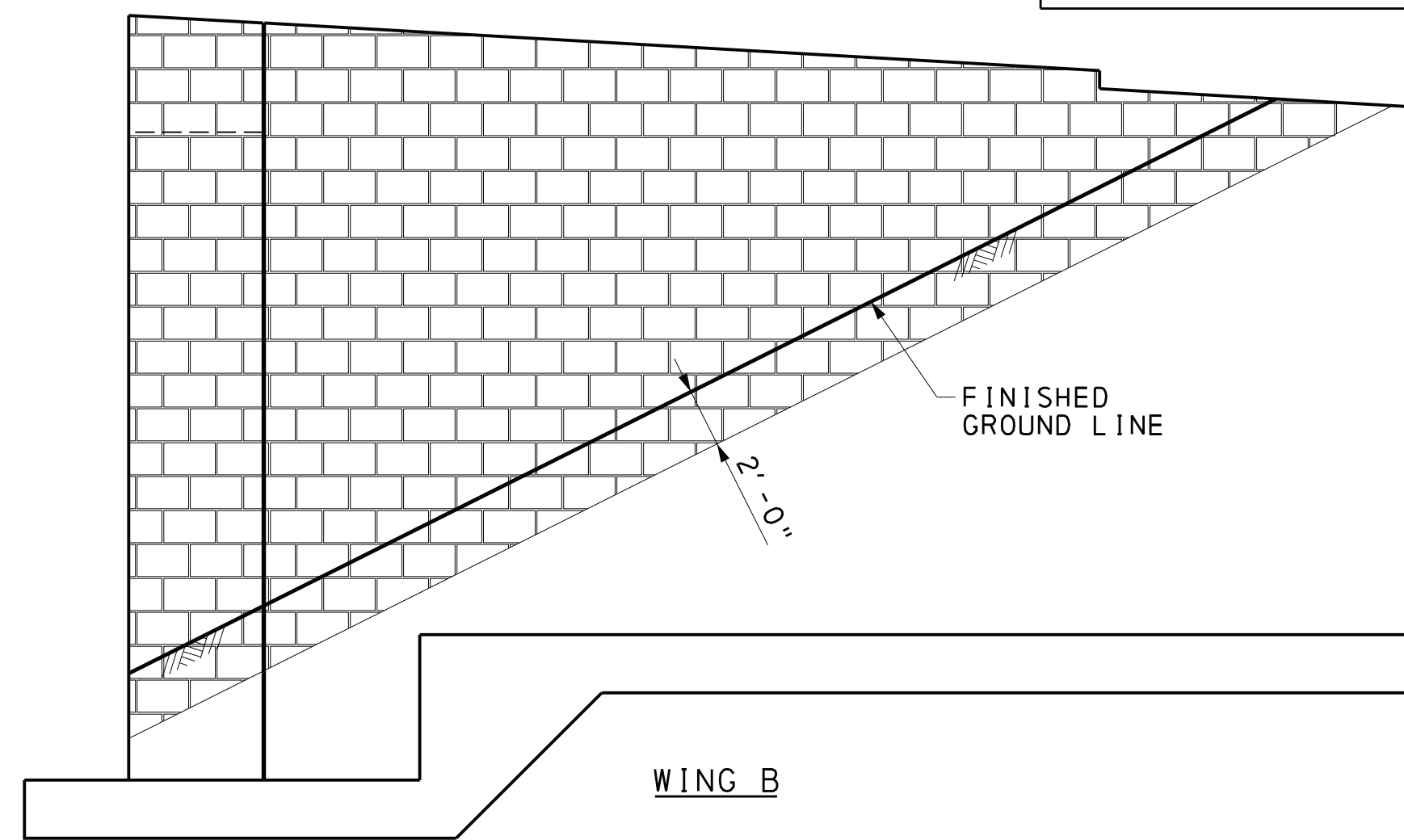
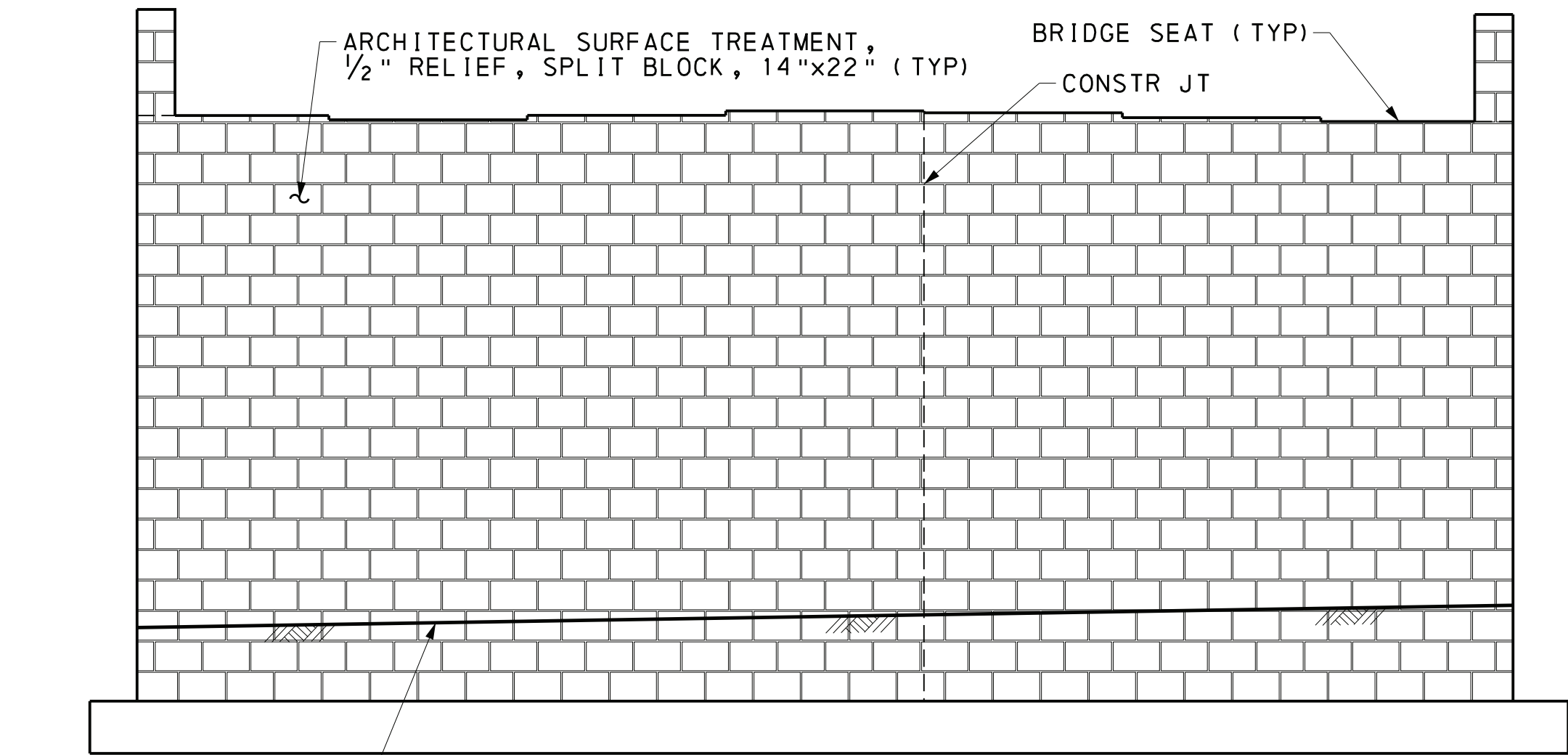
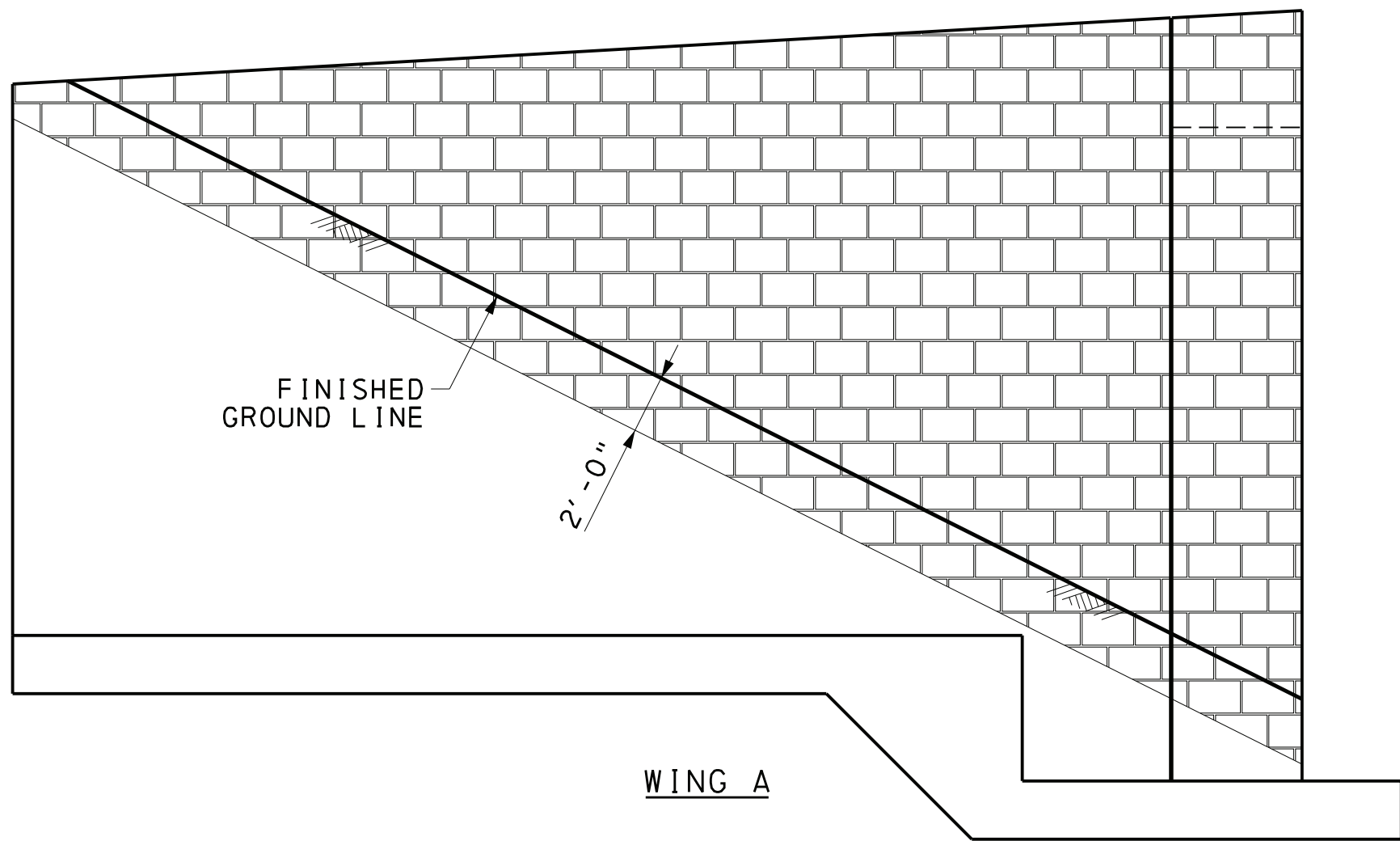
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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SR 3013 (29TH STREET) STA 37+78.24 OVER
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MISCELLANEOUS ABUTMENT DETAILS

RECOMMENDED 12-6-2022
SHEET 32 OF 93
S-39451

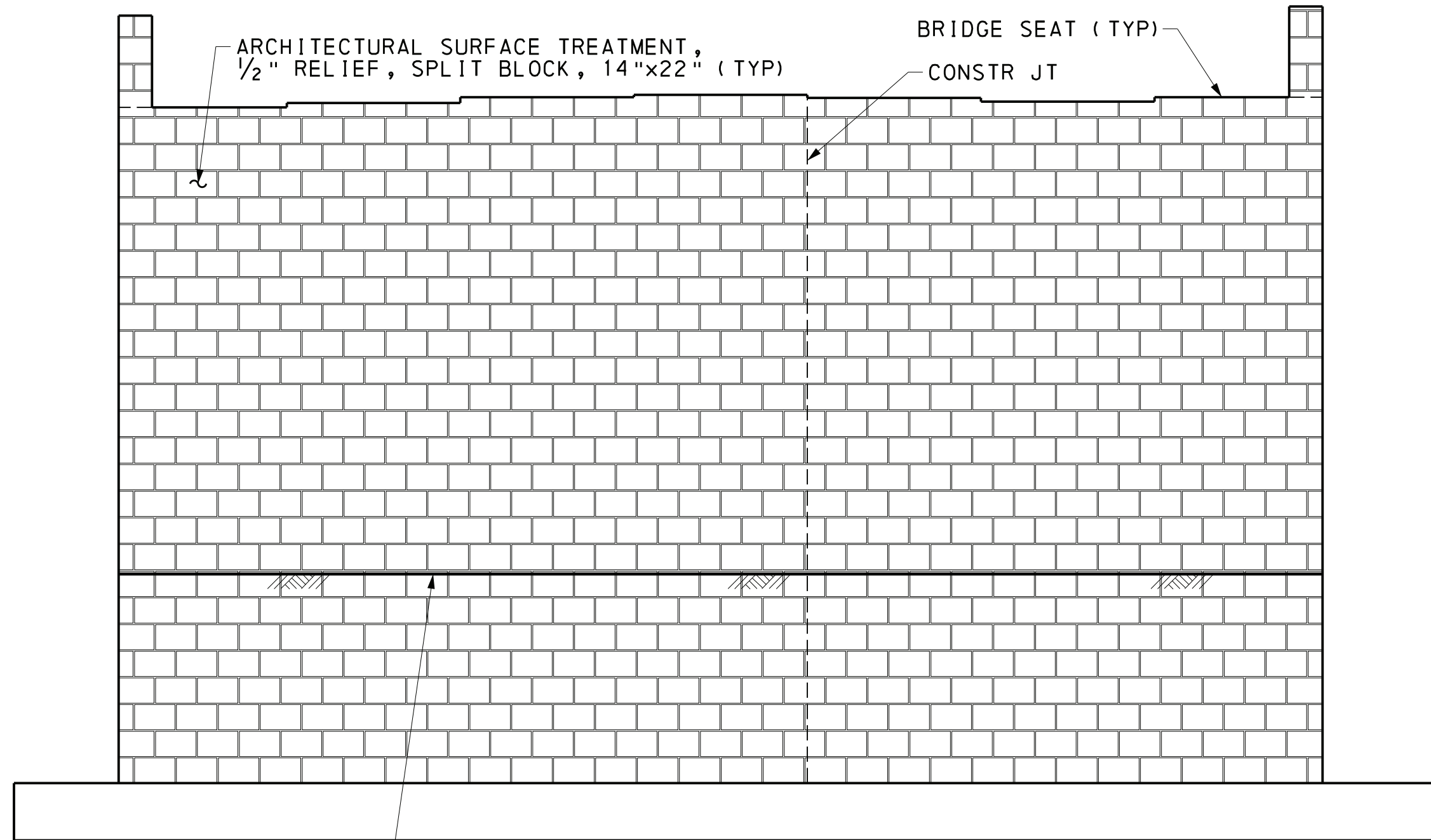
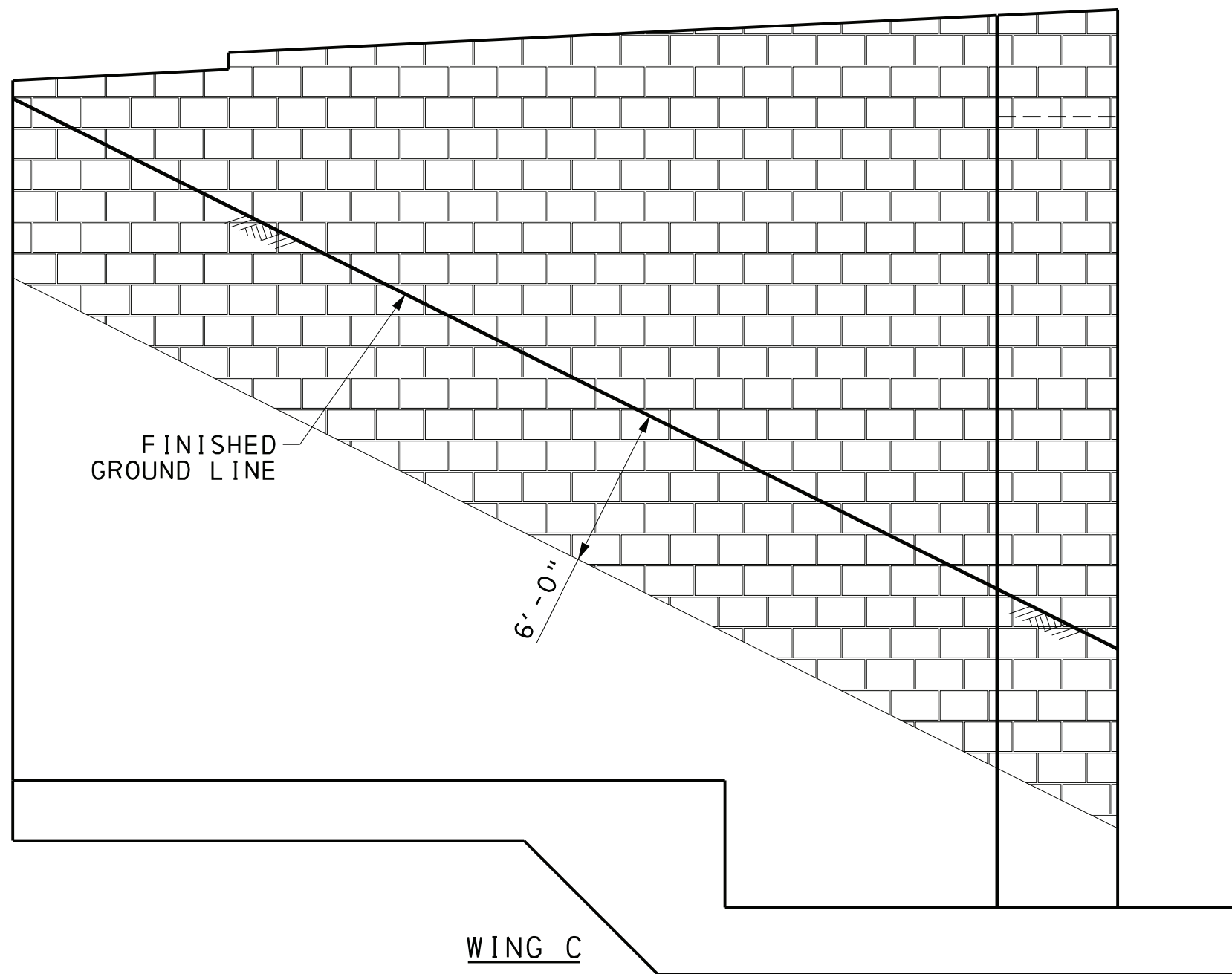
REFERENCES:
GENERAL NOTES 4 & 5
ABUTMENT 1 & 2 DRAWINGS 14 - 31

SHEETS:
4 & 5
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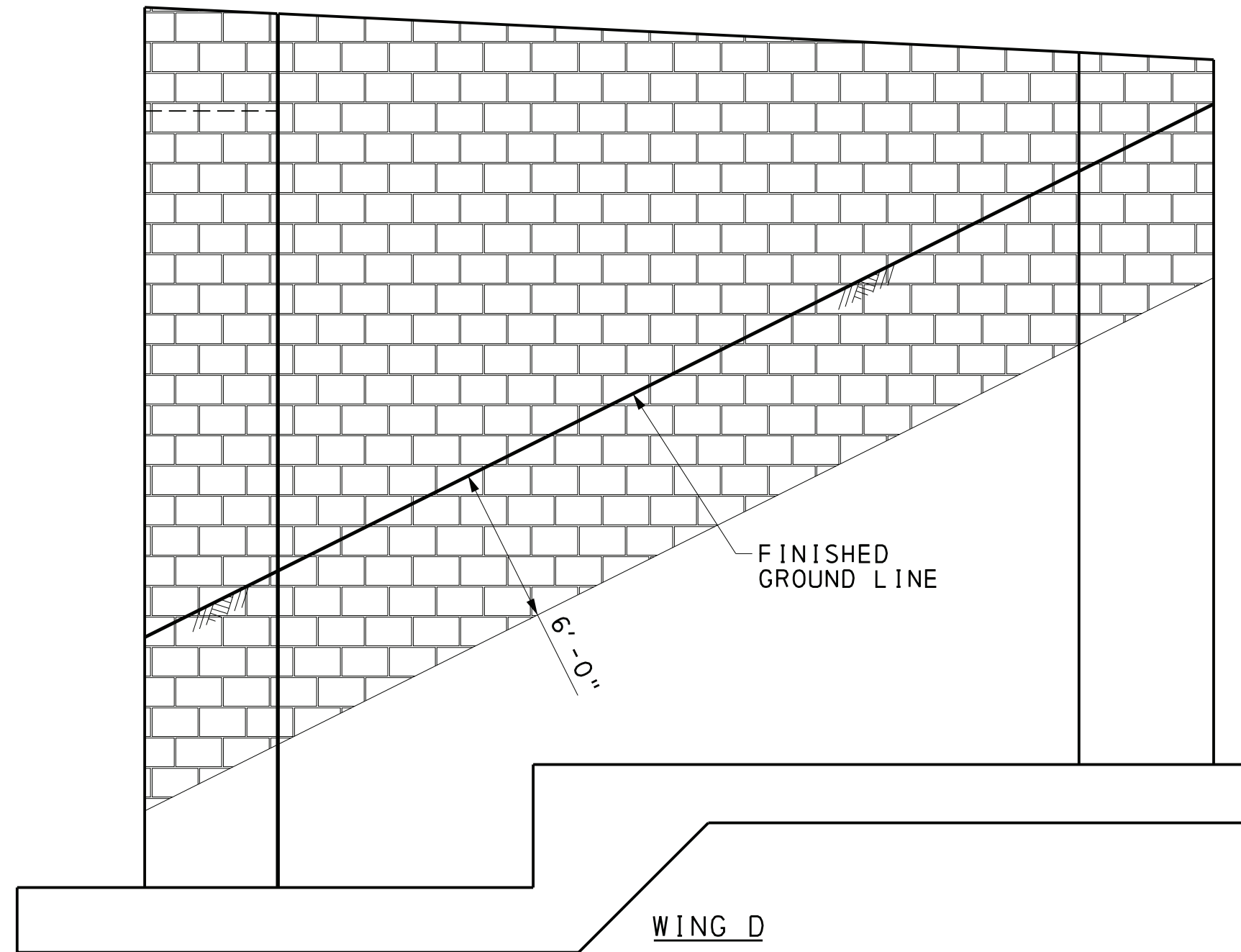
ABUTMENT 1 ELEVATION

2 0 2 4 6 FEET

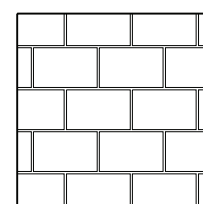


ABUTMENT 2 ELEVATION

2 0 2 4 6 FEET



LEGEND:



LIMITS OF ARCHITECTURAL SURFACE TREATMENT

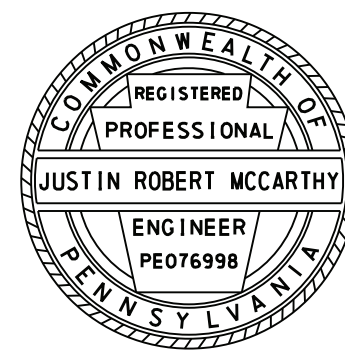
REFERENCES:

GENERAL NOTES
ABUTMENT 1 & 2 DRAWINGS

SHEETS:

4 & 5
14 - 31

HNTB



PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

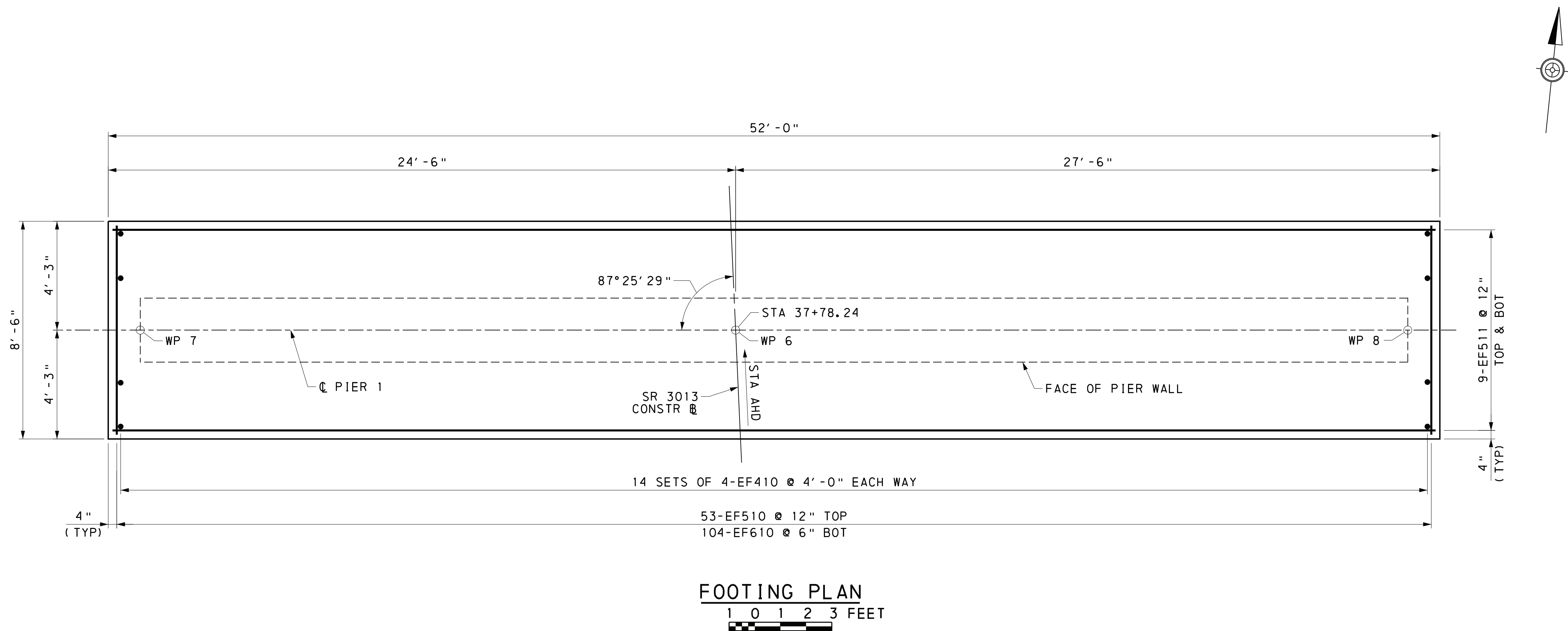
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
ABUTMENT ARCHITECTURAL DETAILS

RECOMMENDED 12-6-2022

SHEET 33 OF 93

S-39451



FOUNDATION PARAMETERS AT PIER 1	
EMPIRICAL ROCK BEARING CAPACITY (KSF)	230
BEARING RESISTANCE (KSF)	115
MAX BEARING PRESSURE (KSF)	21.71
LIMIT STATE	STR-III MAX FINAL
MAX HORIZONTAL FORCE	N/A*

* FOUNDATION TO BE KEYED INTO ROCK

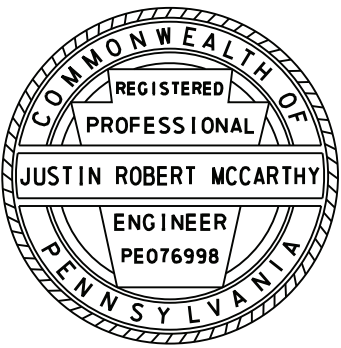
NOTES:

1. PROVIDE A NEAT VERTICAL CUT AROUND THE EDGE OF THE FOOTING EXCAVATION AND PLACE FOOTING AGAINST ROCK CUT SURFACE.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

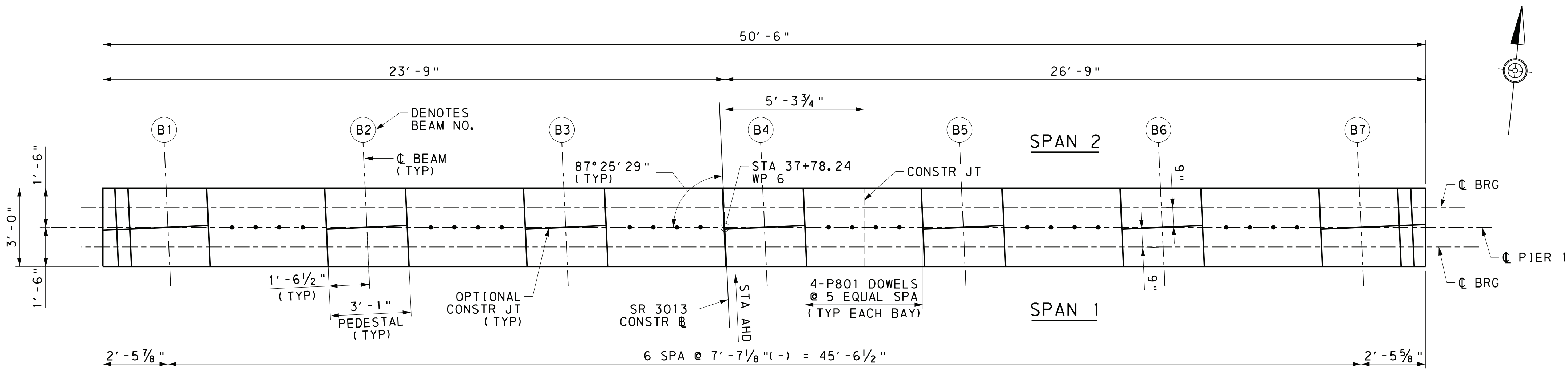
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE PIER 1 FOOTING PLAN	
RECOMMENDED 12-6-2022	SHEET 34 OF 93
S-39451	

REFERENCES:

- GENERAL NOTES
STAKE-OUT PLAN
PIER 1 DRAWINGS

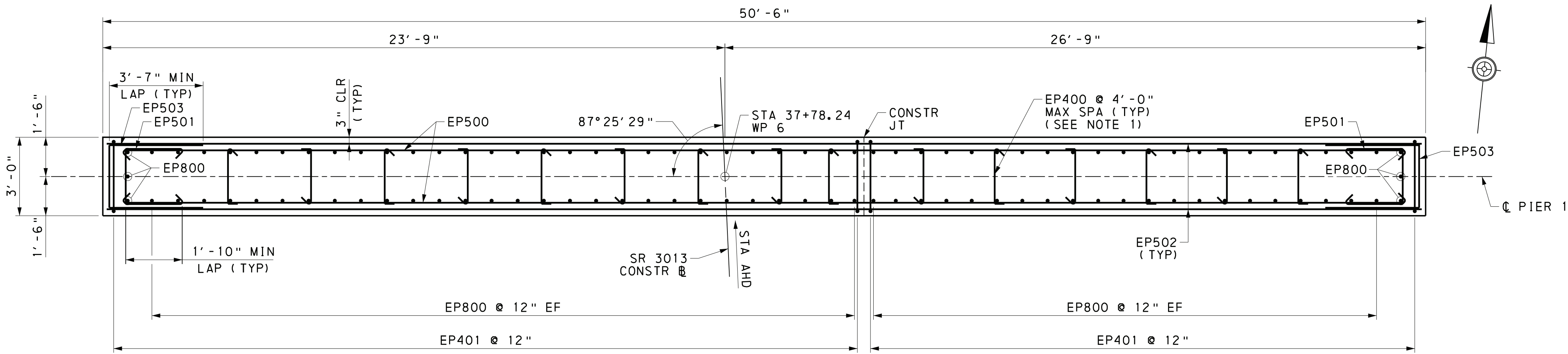
SHEETS:

- 4 & 5
13
34 - 37

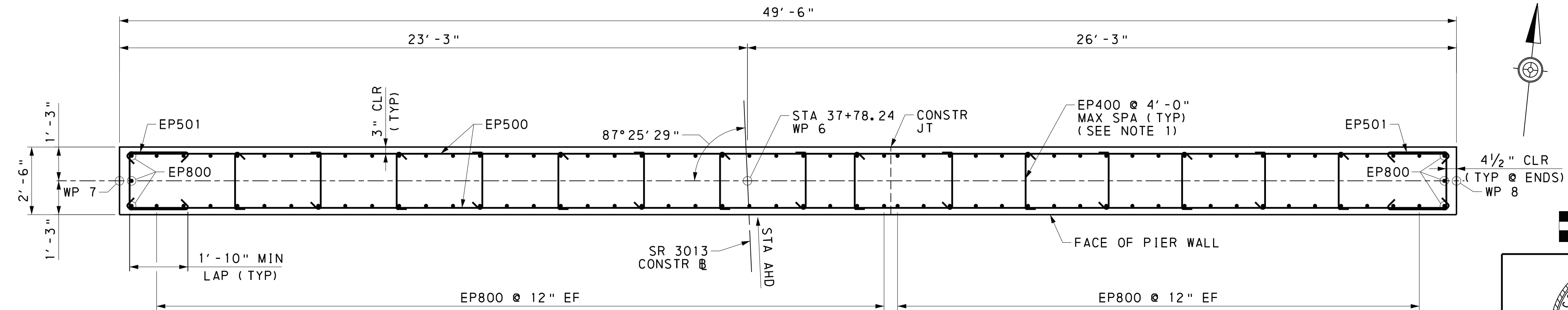


BEAM SEAT ELEVATIONS							
	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7
SPAN 1	394.62	394.77	394.95	395.02	394.85	394.68	394.84
SPAN 2	394.85	395.01	395.23	395.30	395.13	394.94	395.10

- NOTES:
- BEAM SEAT ELEVATIONS GIVEN AT INTERSECTION OF CL BEAM & CL BRG.
 - BEAM SEATS ARE LEVEL IN TRANSVERSE AND LONGITUDINAL DIRECTIONS.

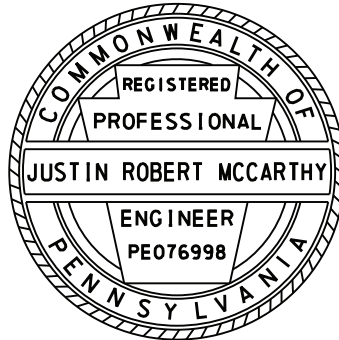


- NOTES:
- ALL HOOKS ON TIES MUST ENGAGE VERTICAL COLUMN REINFORCING STEEL. ALTERNATE 90° & 135° HOOKS ON CROSS TIES BOTH VERTICALLY AND HORIZONTALLY.



- REFERENCES:
- GENERAL NOTES
 - STAKE-OUT PLAN
 - PIER 1 DRAWINGS
- SHEETS:
- 4 & 5
 - 13
 - 34 - 37

HNTB

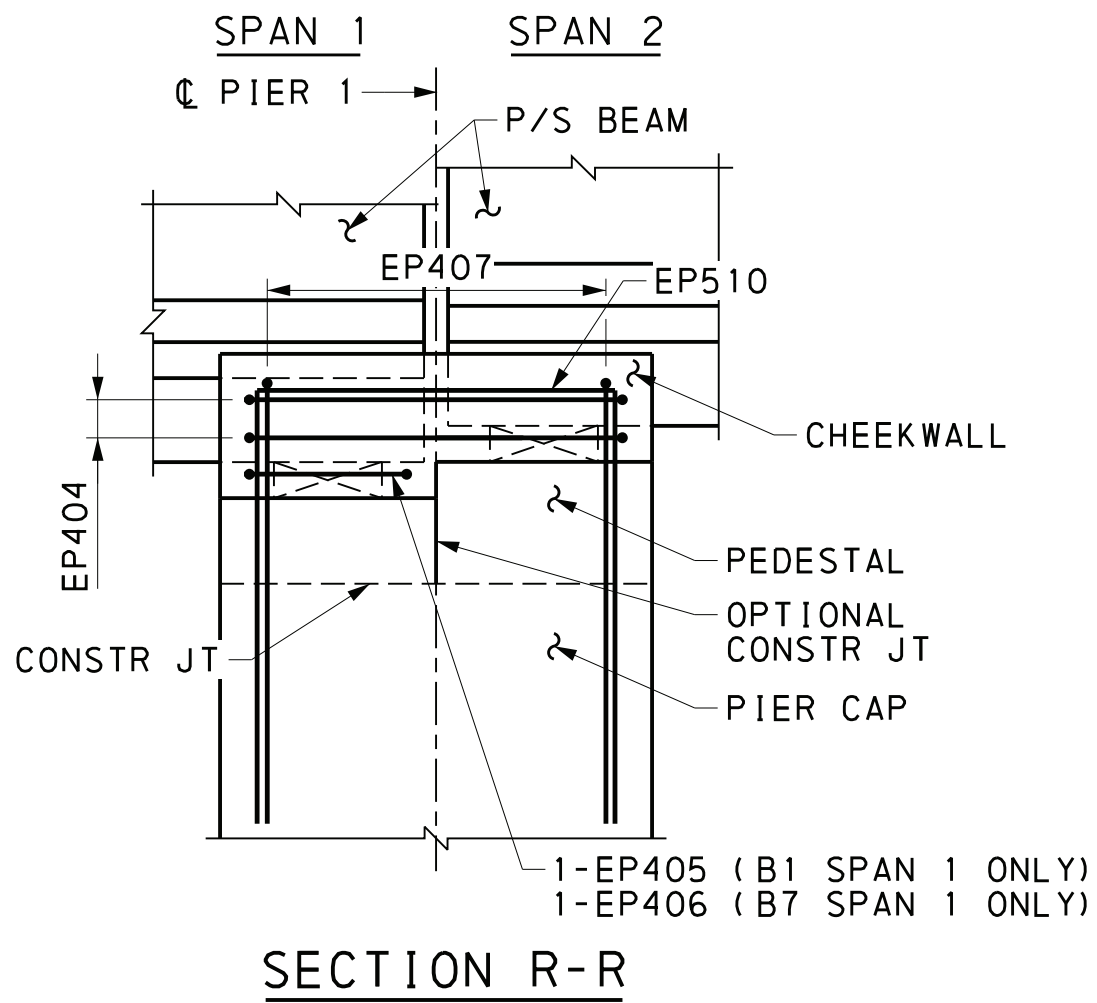
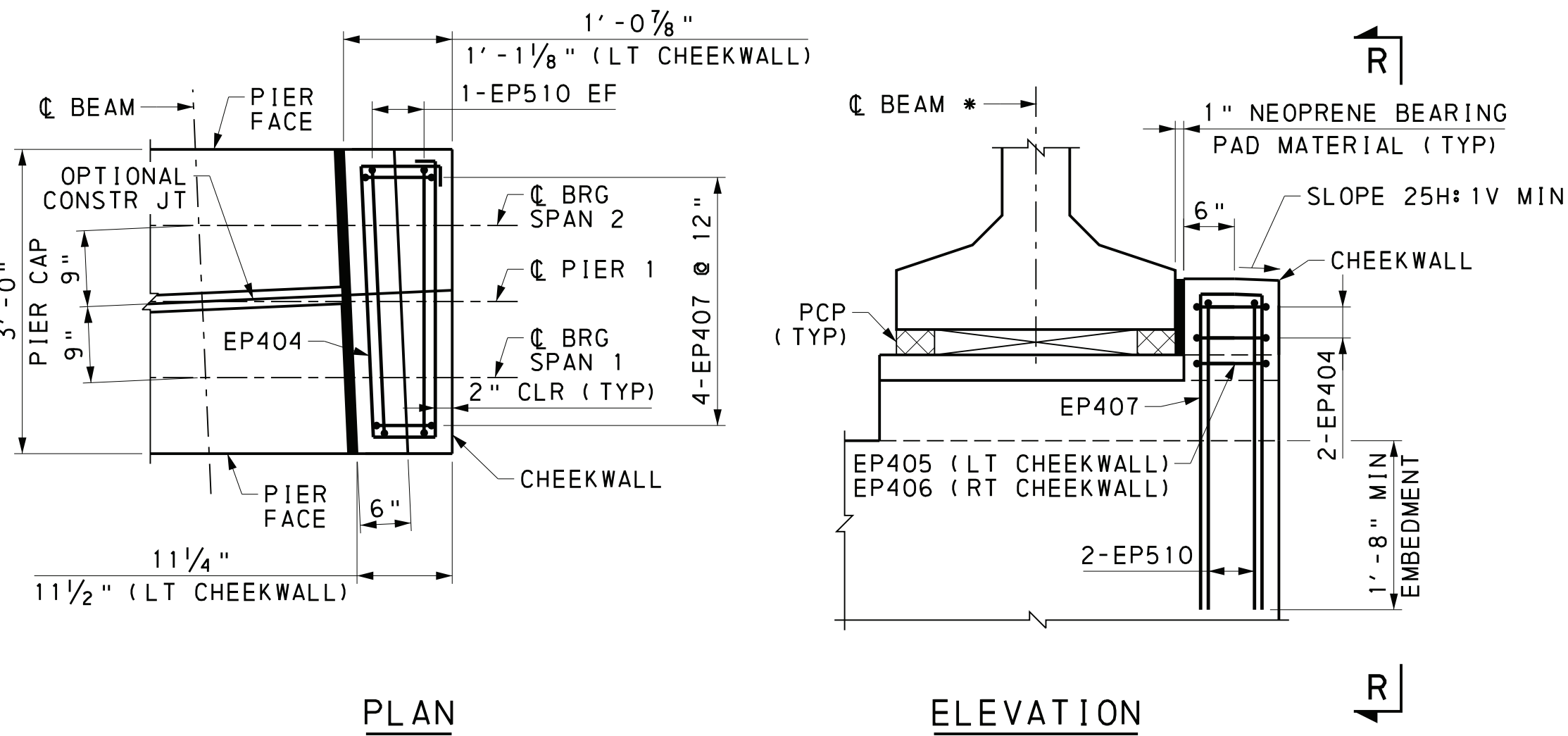
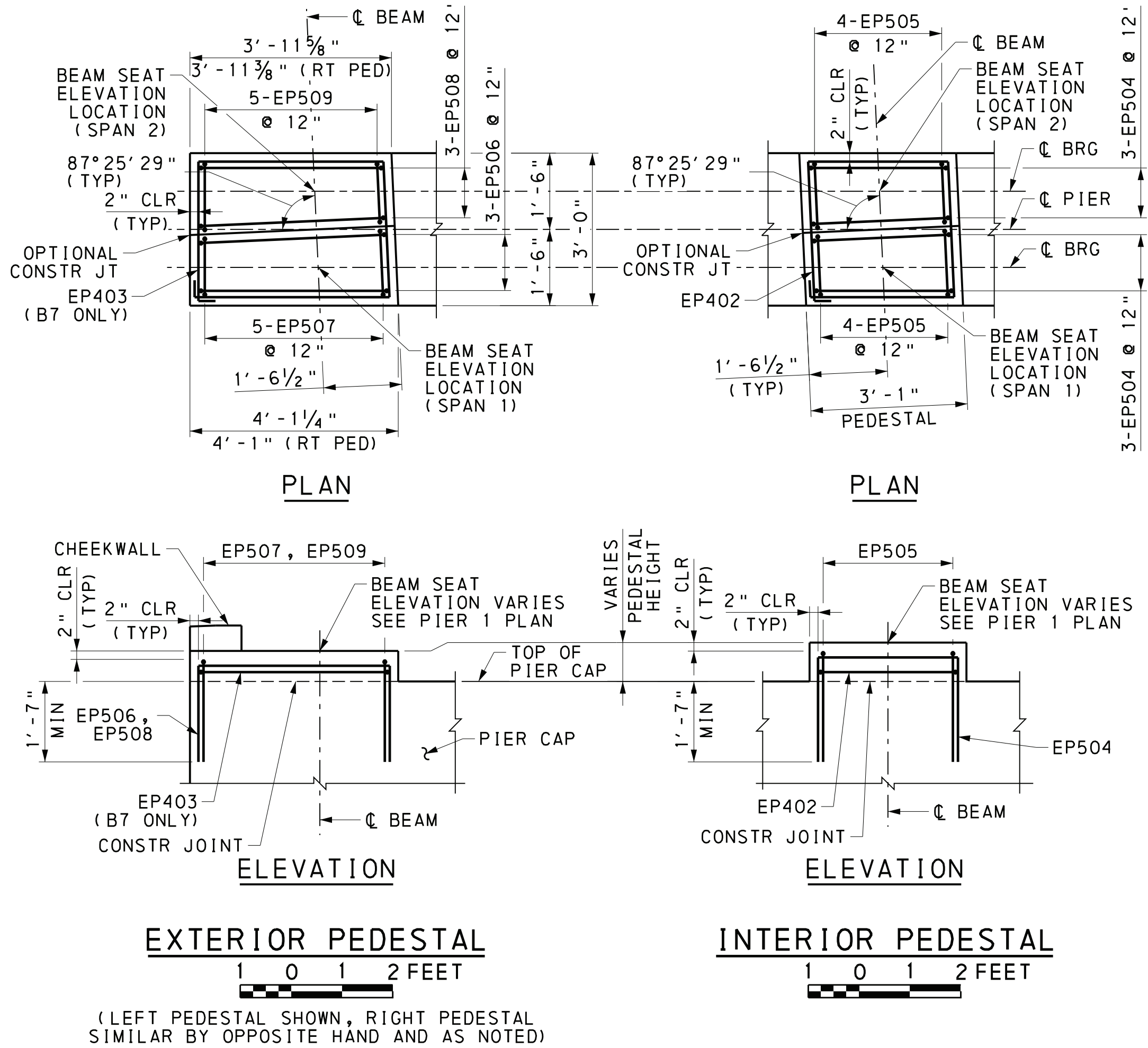
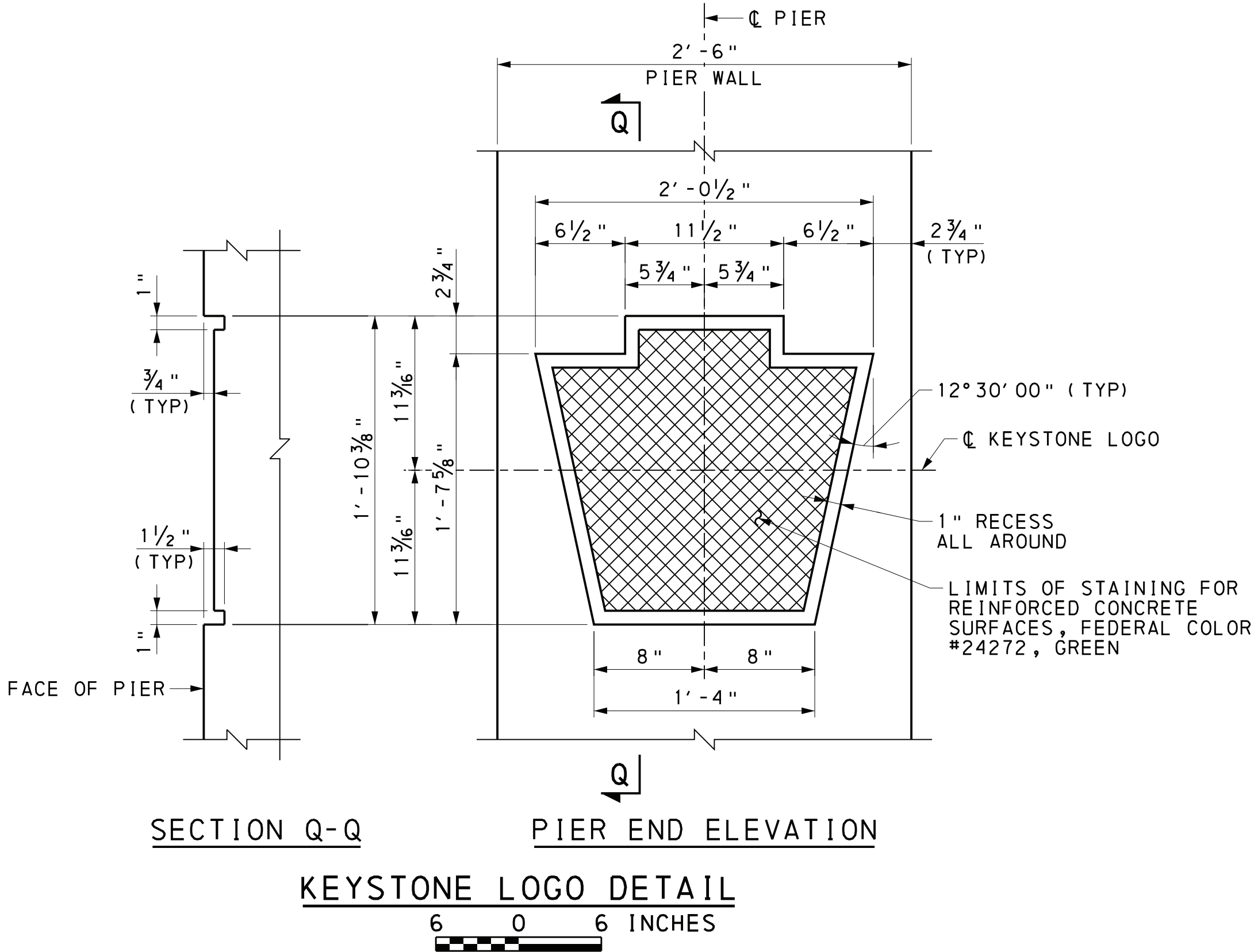
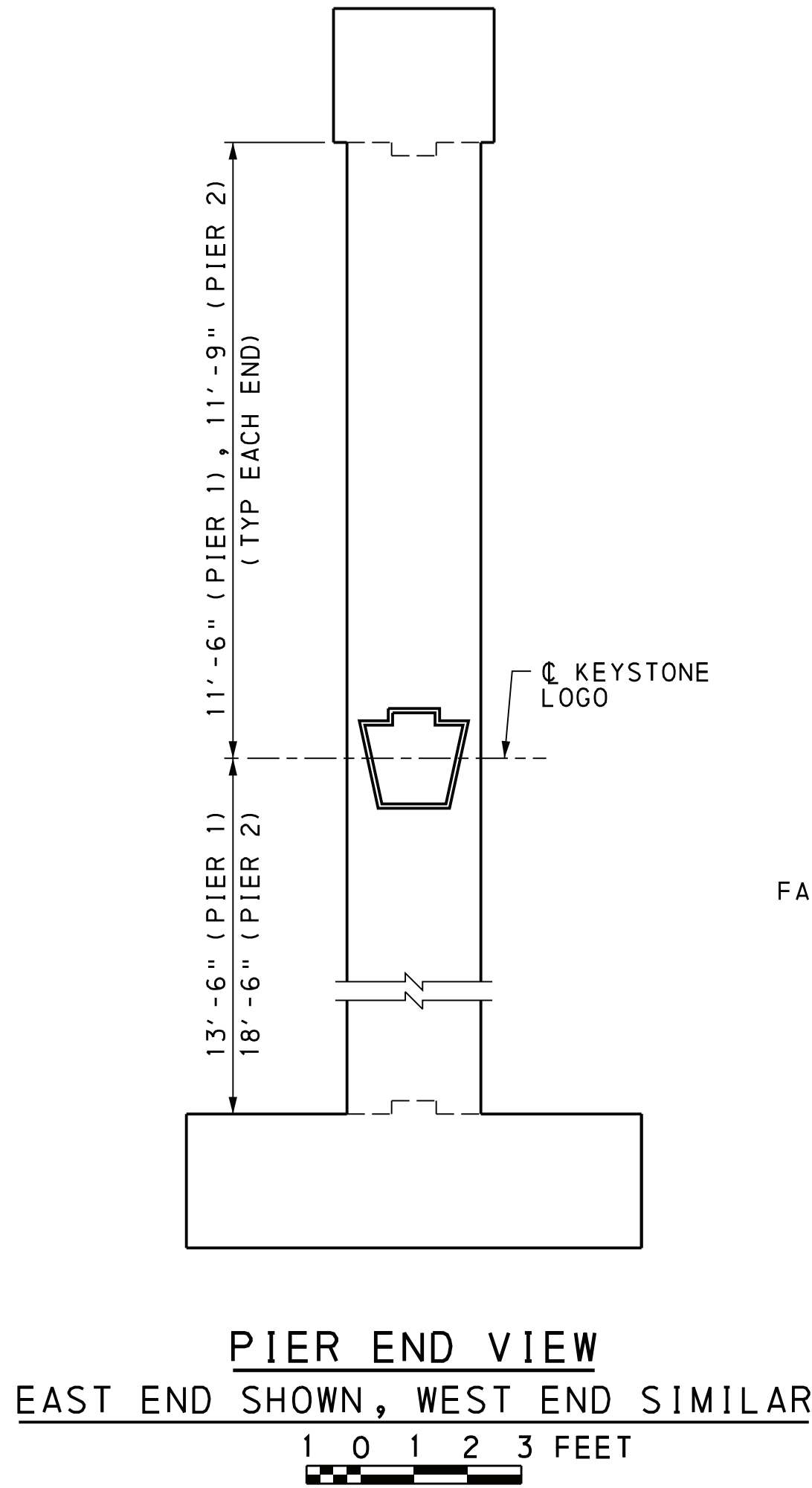


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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE PIER 1 PLAN	
RECOMMENDED 12-6-2022	SHEET 35 OF 93
S-39451	



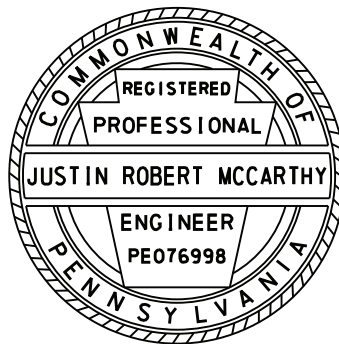
- NOTES:
- SEE BC-788M FOR WATERPROOFING DETAILS.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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HARRISBURG, PA 17110

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
PIER 1 DETAILS

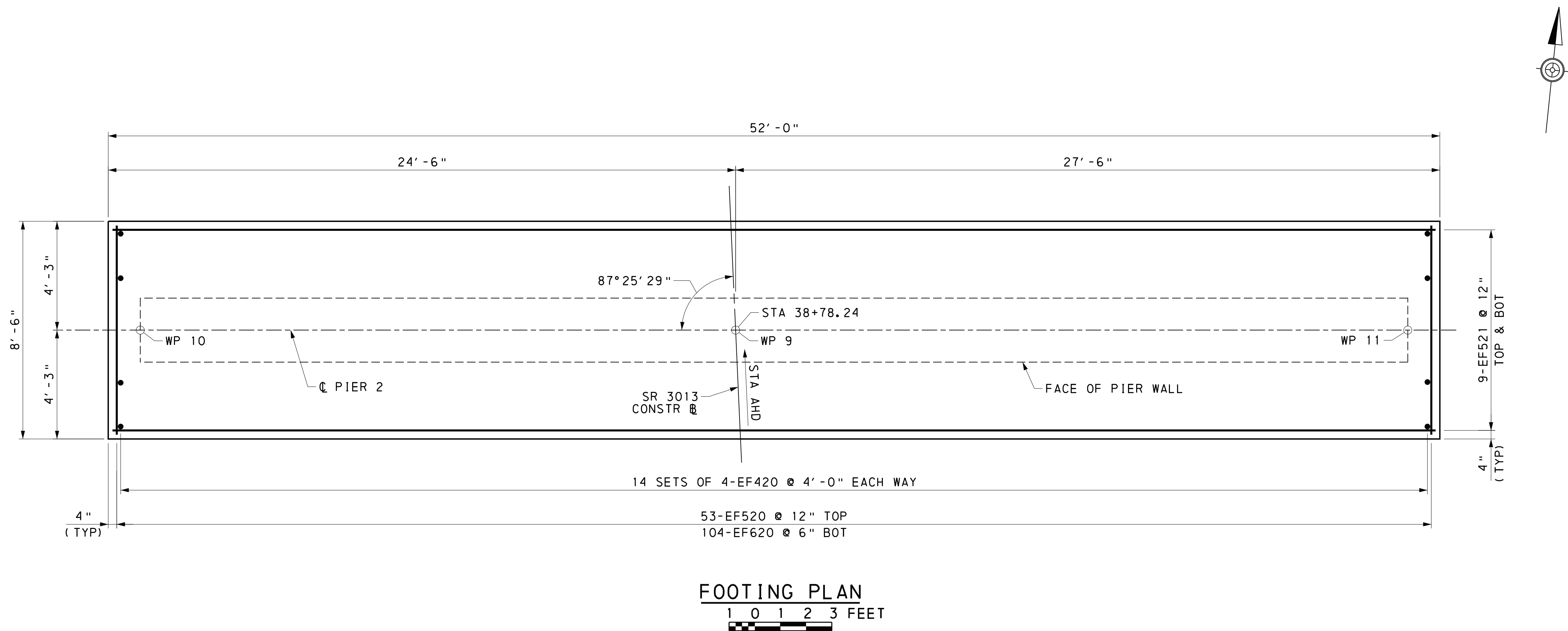
RECOMMENDED 12-6-2022

SHEET 37 OF 93

S-39451

- REFERENCES:
- GENERAL NOTES
 - STAKE-OUT PLAN
 - PIER 1 DRAWINGS

- SHEETS:
- 4 & 5
 - 13
 - 34 - 37



FOOTING PLAN
1 0 1 2 3 FEET

FOUNDATION PARAMETERS AT PIER 2	
EMPIRICAL ROCK BEARING CAPACITY (KSF)	230
BEARING RESISTANCE (KSF)	115
MAX BEARING PRESSURE (KSF)	23.54
LIMIT STATE	STR-III MAX FINAL
MAX HORIZONTAL FORCE	N/A*

* FOUNDATION TO BE KEYED INTO ROCK

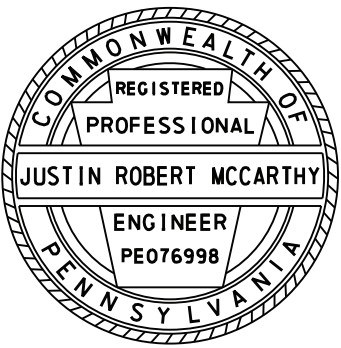
NOTES:

1. PROVIDE A NEAT VERTICAL CUT AROUND THE EDGE OF THE FOOTING EXCAVATION AND PLACE FOOTING AGAINST ROCK CUT SURFACE.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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HARRISBURG, PA 17110

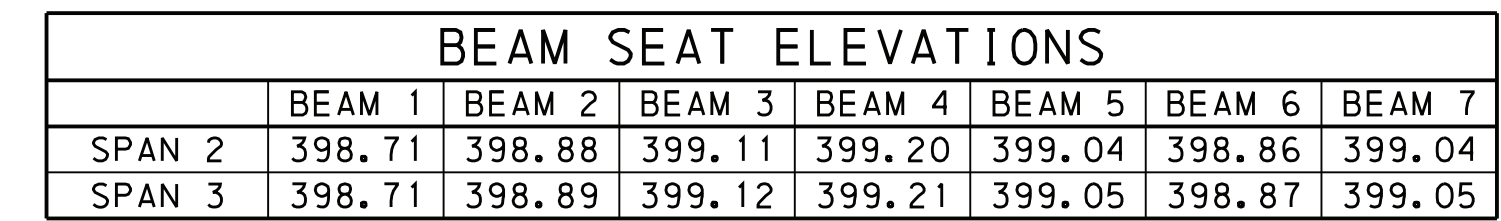
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE PIER 2 FOOTING PLAN	
RECOMMENDED 12-6-2022	SHEET 38 OF 93
S-39451	

REFERENCES:

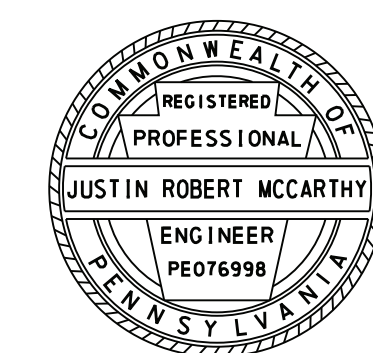
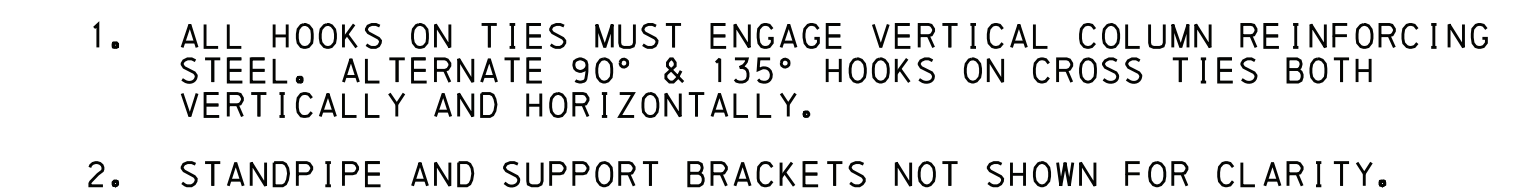
- GENERAL NOTES
STAKE-OUT PLAN
PIER 2 DRAWINGS

SHEETS:

- 4 & 5
13
38 - 41



1. BEAM SEAT ELEVATIONS GIVEN AT INTERSECTION OF C BEAM & C BRG.
2. BEAM SEATS ARE LEVEL IN TRANSVERSE AND LONGITUDINAL DIRECTIONS.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
PIER 2 PLAN

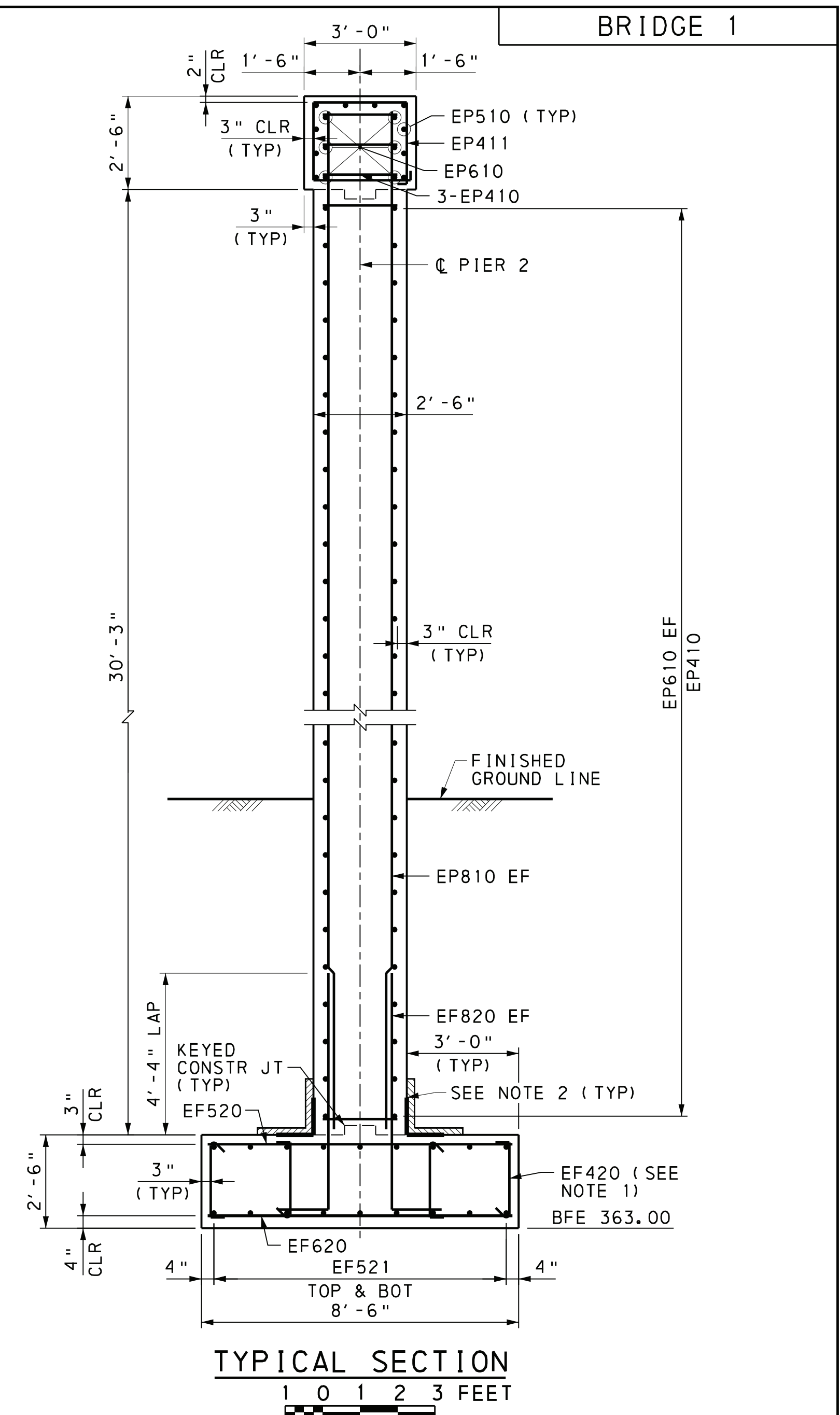
RECOMMENDED 12-6-2022

SHEET 39 OF 93

S-39451

GENERAL NOTES
STAKE-OUT PLAN
PIER 2 DRAWINGS
STANDPIPE DETAILS

$$\begin{array}{r} 4 \text{ \& } 5 \\ 13 \\ 38 - 41 \\ 85 \end{array}$$



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

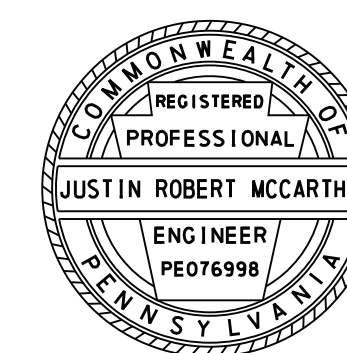
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
PIER 2 ELEVATION & SECTION

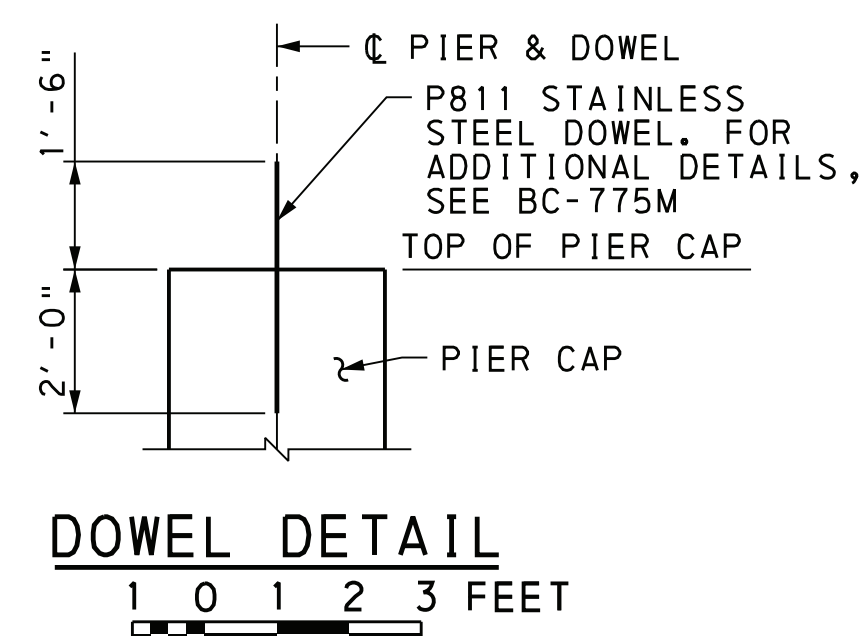
RECOMMENDED 12-6-2022

SHEET 40 OF 93

S-39451



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HARRISBURG, PA 17110



ELEVATION
1 0 1 2 3 FEET

(PEDESTAL, CHEEKWALL & FOOTING REINFORCEMENT NOT SHOWN FOR CLARITY)

NOTES:

1. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH #4 TIE BARS AT A MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOK AT TOP IN ALTERNATING TIES.
2. FOR WATERPROOFING DETAILS, SEE ATTACHMENT BC-788 MODIFIED "SPRAY-ON WATERPROOFING DETAILS".
3. STANDPIPE AND SUPPORT BRACKETS NOT SHOWN FOR CLARITY.

REFERENCES:

GENERAL NOTES
STAKE-OUT PLAN
PIER 2 DRAWINGS
STANDPIPE DETAILS

SHEETS:

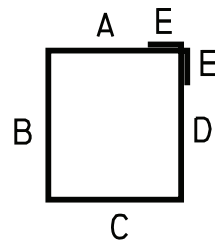
$$\begin{array}{r} 4 \text{ \& } 5 \\ 13 \\ 38 - 41 \\ 85 \end{array}$$

MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
PIER 1										
EF410	4	56	2'-8"	63	4 1/2"	1'-11"	4 1/2"			
EF510	5	53	8'-0"	STR						
EF511	5	18	51'-6"	STR						
EF610	6	104	8'-0"	STR						
EF810	8	104	7'-10"	77	6'-6"	1'-4"				
EP400	4	420	2'-9"	63	4 1/2"	2'-0"	4 1/2"			
EP401	4	51	10'-1"	2	2'-6"	2'-2"	2'-6"	2'-2"	4 1/2"	
EP402	4	5	11'-7"	113	2'-9"	2'-8"	2'-9"	2'-8"	4 1/2"	F = 1 3/8", G = 1 3/8"
EP403	4	1	13'-5 1/2"	114	3'-7 1/2"	2'-8"	3'-9"	2'-8"	4 1/2"	F = 1 3/8"
EP404	4	4	7'-4 3/4"	114	7 1/4"	2'-8"	8 1/2"	2'-8"	4 1/2"	F = 1 3/8"
EP405	4	1	4'-4 1/2"	115	8"	1'-1 1/2"	9"	1'-1"	4 1/2"	F = 3/8", G = 5/8"
EP406	4	1	4'-6"	116	8"	1'-2 3/4"	7 1/4"	1'-3"	4 1/2"	F = 5/8", G = 3/8"
EP407	4	8	6'-10 1/4" TO 6'-11 3/4"	31	3'-1 1/2"	7 1/4" TO 8 3/4"	3'-1 1/2"			VARY B 2 EACH BY 1/2"
EP500	5	56	49'-8"	67	5 1/2"	48'-9"				
EP501	5	56	6'-11"	104	5 1/2"	2'-0"	2'-0"			
EP502	5	10	50'-0"	STR						
EP503	5	8	9'-8"	31	3'-7"	2'-6"	3'-7"			
EP504	5	30	7'-7"	31	2'-5"	2'-8"	2'-5"			
EP505	5	40	6'-0" TO 6'-1 1/2"	31	2'-6"	1'-0" TO 1'-1 1/2"	2'-6"			VARY B 10 EACH BY 1/2"
EP506	5	6	8'-2" TO 8'-3"	31	2'-3 1/2"	3' 7" TO 3'-8"	2'-3 1/2"			VARY B 2 EACH BY 1/2"
EP507	5	10	5'-5 3/4" TO 5'-7 3/4"	31	2'-3"	11 3/4" TO 1'-1 3/4"	2'-3"			VARY B 2 EACH BY 1/2"
EP508	5	6	7'-6 3/4" TO 7'-7 1/4"	31	2'-0"	3'-6 3/4" TO 3'-7 1/4"	2'-0"			VARY B 2 EACH BY 1/4"
EP509	5	10	5'-1" TO 5'-3"	31	2'-0 1/2"	1'-0" TO 1'-2"	2'-0 1/2"			VARY B 2 EACH BY 1/2"
EP510	5	4	8'-9"	31	3'-1"	2'-7"	3'-1"			
EP800	8	104	27'-2"	STR						
P801	8	24	3'-6"	STR						STAINLESS STEEL DOWEL BAR
PIER 2										
EF420	4	56	2'-8"	63	4 1/2"	1'-11"	4 1/2"			
EF520	5	53	8'-0"	STR						
EF521	5	18	51'-6"	STR						
EF620	6	104	8'-0"	STR						
EF820	8	138	7'-10"	77	6'-6"	1'-4"				
EP410	4	442	2'-9"	63	4 1/2"	2'-0"	4 1/2"			
EP411	4	51	10'-1"	2	2'-6"	2'-2"	2'-6"	2'-2"	4 1/2"	
EP412	4	3	11'-7"	113	2'-9"	2'-8"	2'-9"	2'-8"	4 1/2"	F = 1 3/8", G = 1 3/8"
EP413	4	1	13'-5 1/2"	114	3'-7 1/2"	2'-8"	3'-9"	2'-8"	4 1/2"	F = 1 3/8"
EP414	4	4	7'-4 3/4"	114	7 1/4"	2'-8"	8 1/2"	2'-8"	4 1/2"	F = 1 3/8"
EP415	4	8	6'-9 1/4" TO 6'-10 3/4"	31	3'-1"	7 1/4" TO 8 3/4"	3'-1"			VARY B 2 EACH BY 1/2"
EP510	5	10	50'-0"	STR						
EP511	5	8	9'-8"	31	3'-7"	2'-6"	3'-7"			
EP512	5	30	7'-4"	31	2'-4"	2'-8"	2'-4"			
EP513	5	40	5'-10" TO 5'-11 1/2"	31	2'-5"	1'-0" TO 1'-1 1/2"	2'-5"			VARY B 10 EACH BY 1/2"
EP514	5	6	7'-11" TO 8'-0"	31	2'-2"	3'-7" TO 3'-8"	2'-2"			VARY B 2 EACH BY 1/2"
EP515	5	10	5'-5 3/4" TO 5'-7 3/4"	31	2'-3"	11 3/4" TO 1'-1 3/4"	2'-3"			VARY B 2 EACH BY 1/2"
EP516	5	6	7'-10 3/4" TO 7'-11 1/4"	31	2'-2"	3'-6 3/4" TO 3'-7 1/4"	2'-2"			VARY B 2 EACH BY 1/4"
EP517	5	10	5'-6" TO 5'-8"	31	2'-3"	1'-0" TO 1'-2"	2'-3"			VARY B 2 EACH BY 1/2"
EP518	5	4	8'-5"	31	2'-11"	2'-7"	2'-11"			
EP610	6	68	50'-1"	67	8"	48'-9"				
EP611	6	68	8'-0"	104	8"	2'-4"	2'-0"			
EP810	8	138	32-5"	STR						
P811	8	24	3'-6"	STR						STAINLESS STEEL DOWEL BAR

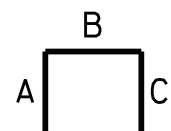
BRIDGE 1

NOTES:

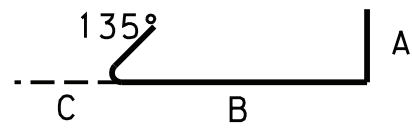
- "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



2



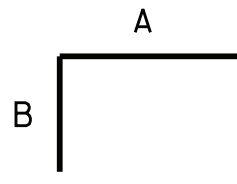
31



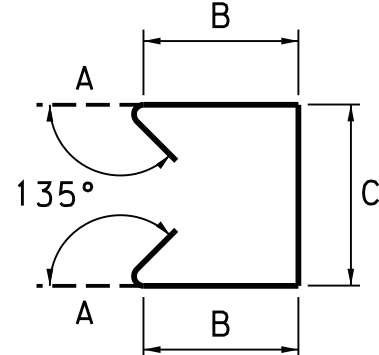
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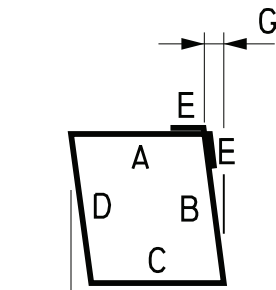
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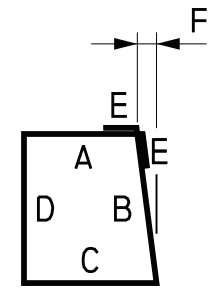
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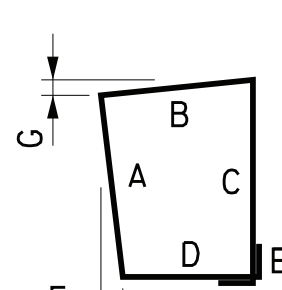
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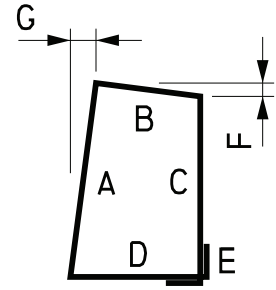
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114



115

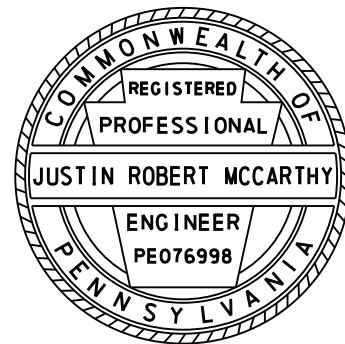


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Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

HNTB



PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
PIER 1 & 2 REBAR SCHEDULE

RECOMMENDED 12-6-2022

SHEET 42 OF 93

S-39451

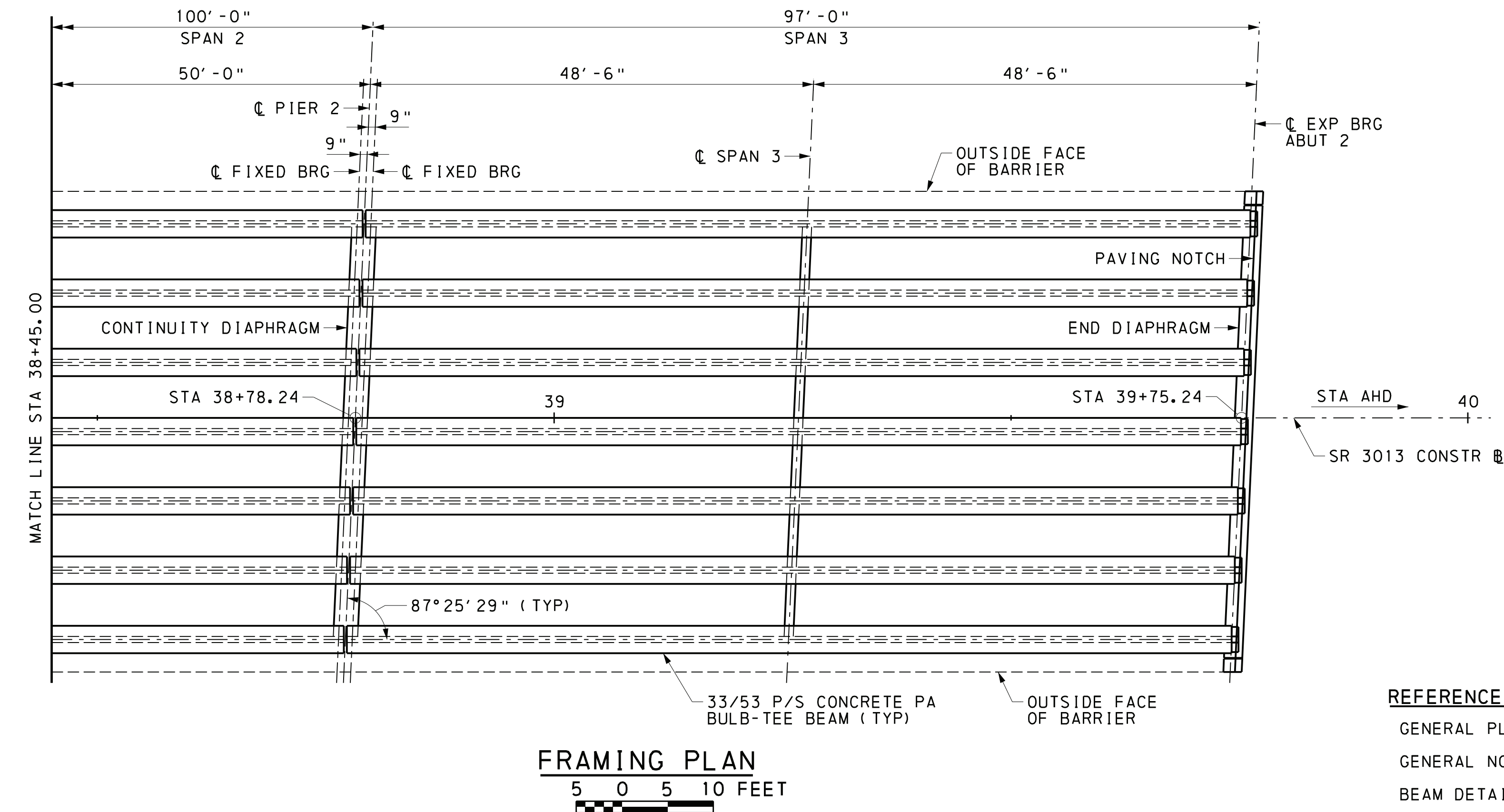
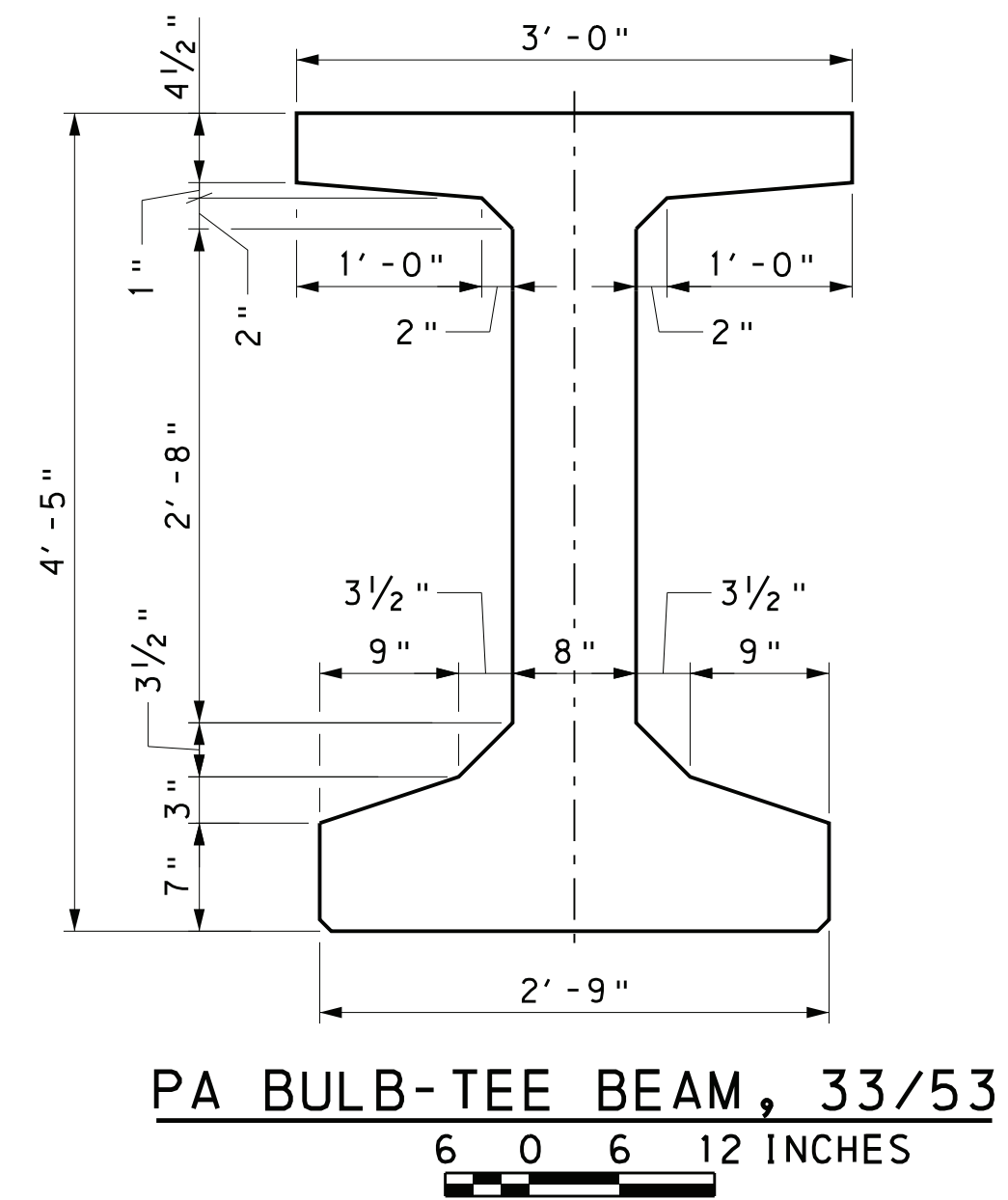
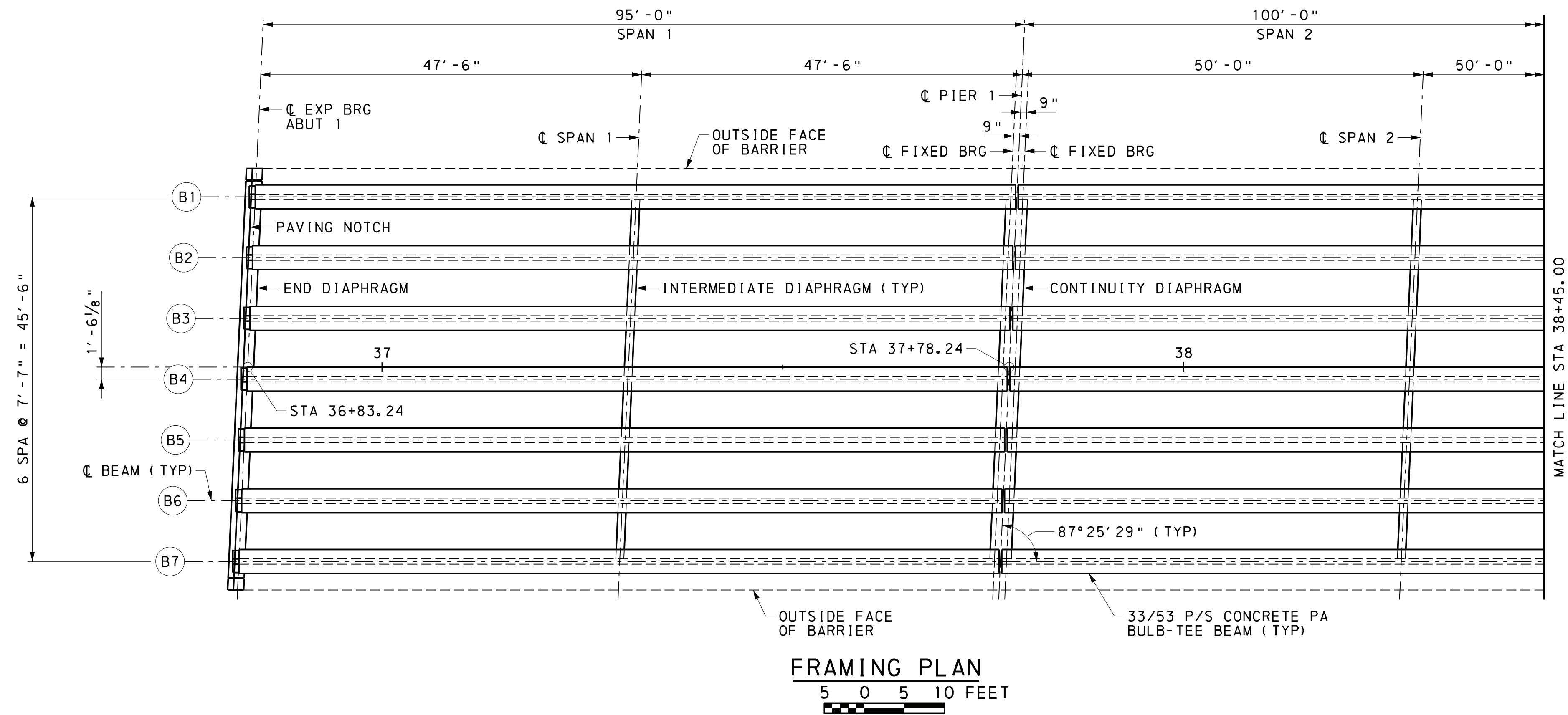
REFERENCES:

GENERAL NOTES
PIER 1 & 2 DRAWINGS

SHEETS:

4 & 5
34 - 41

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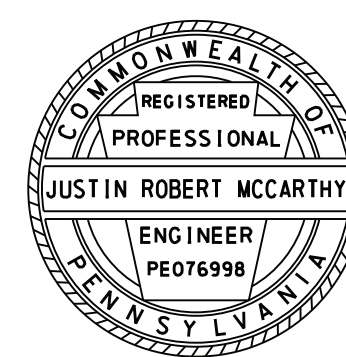


REFERENCES:	SHEETS:
GENERAL PLAN	1
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BEAM DETAILS	44 - 46
SLAB PLANS	48 & 49
SLAB TYPICAL SECTIONS	50 & 51
DIAPHRAGM DETAILS	54 - 56

Mark	Description	By	Chk'd	Rec'd	Date
REVISIONS					

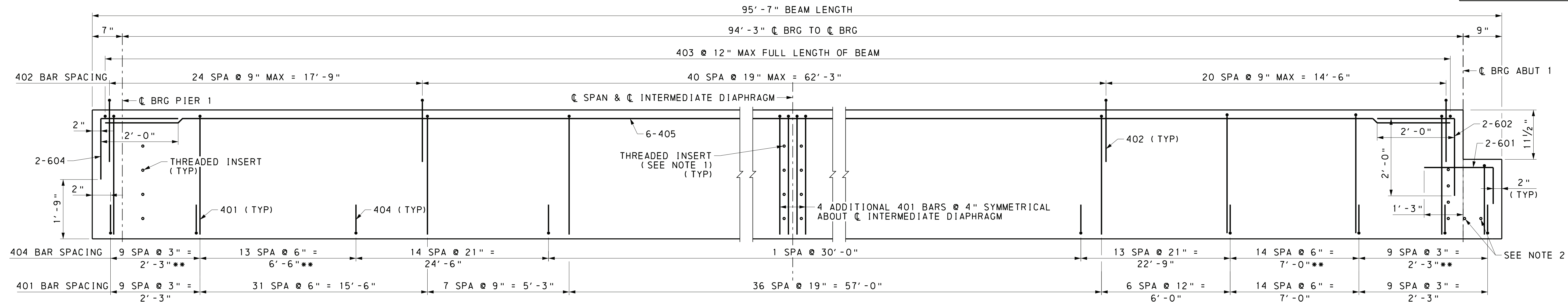
SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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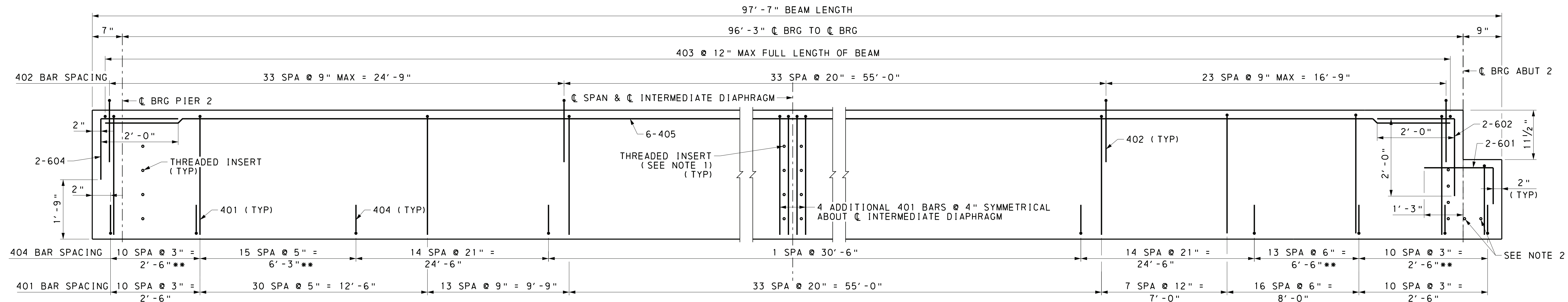


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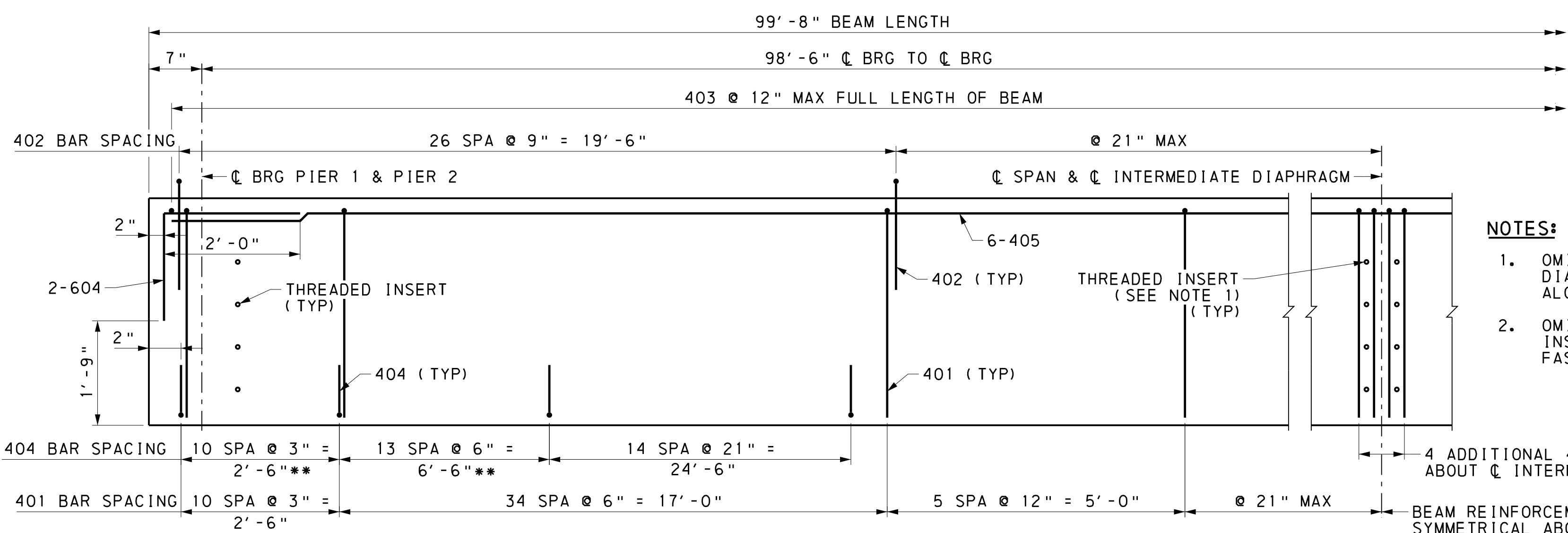
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DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE FRAMING PLAN	
RECOMMENDED 12-6-2022	SHEET 43 OF 93
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PA BULB-TEE BEAM ELEVATION (SPAN 1)
NOT TO SCALE



PA BULB-TEE BEAM ELEVATION (SPAN 3)
NOT TO SCALE



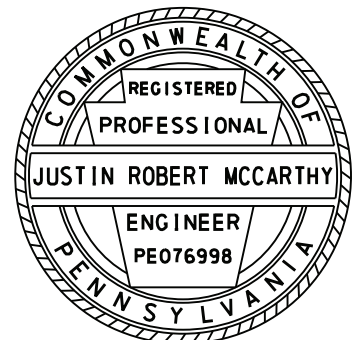
PA BULB-TEE BEAM ELEVATION (SPAN 2)
NOT TO SCALE

REFERENCES:	SHEETS:
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SLAB DRAWINGS	48 & 49
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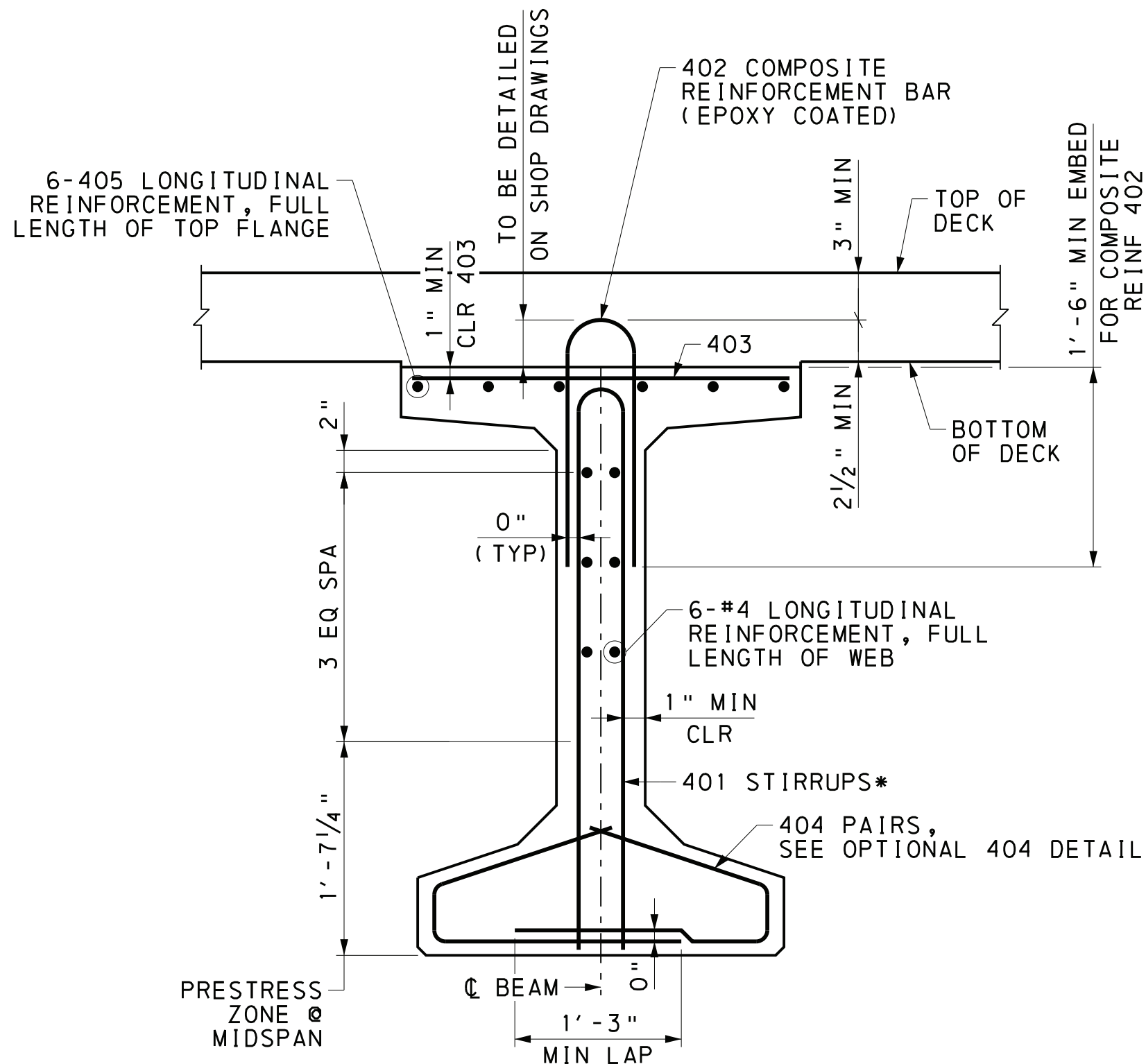
COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BEAM DETAILS 1

RECOMMENDED 12-6-2022

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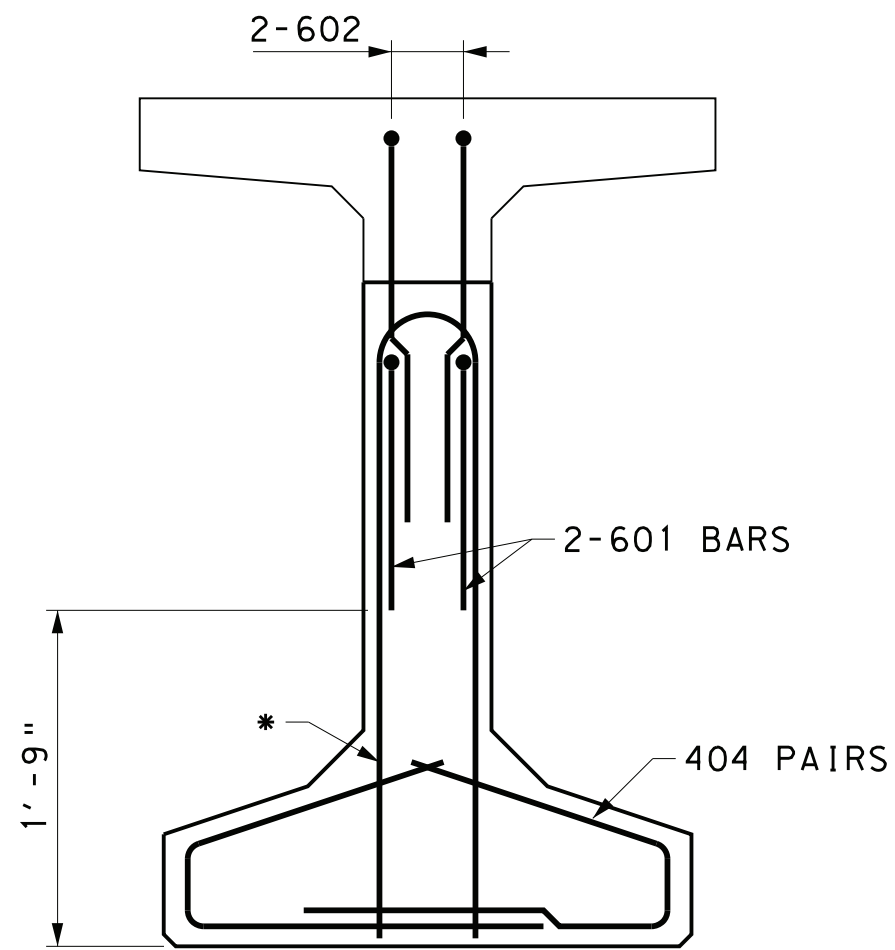
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* 401 MAY BE UTILIZED BY FABRICATOR TO REPLACE 402 COMPOSITE REINFORCEMENT. ALL 401 REINFORCEMENT BARS PROJECTING INTO THE DECK SLAB MUST BE EPOXY COATED FOR ENTIRE LENGTH.

PA BULB-TEE TYPICAL SECTION

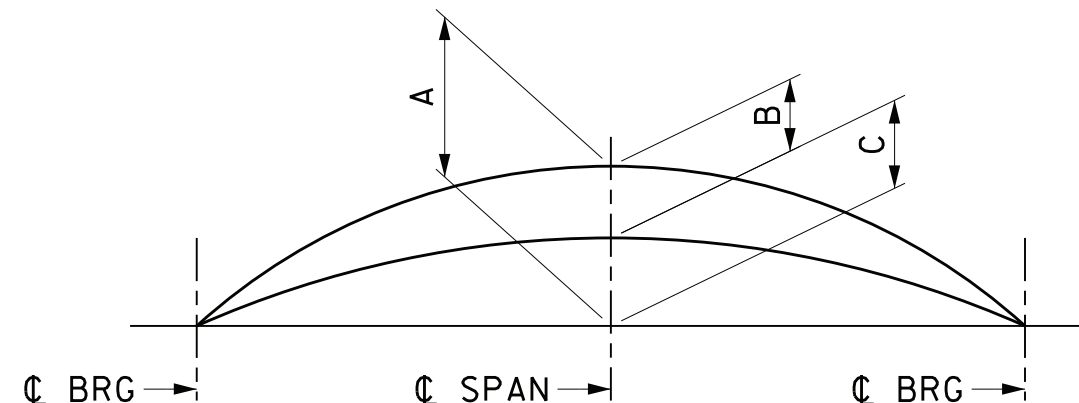
6 0 6 12 INCHES



* MODIFY 401 BAR, AS REQUIRED, TO ACCOMMODATE BEAM NOTCH

PA BULB-TEE NOTCH REINF END VIEW

6 0 6 12 INCHES



BEAM CAMBER DIAGRAM

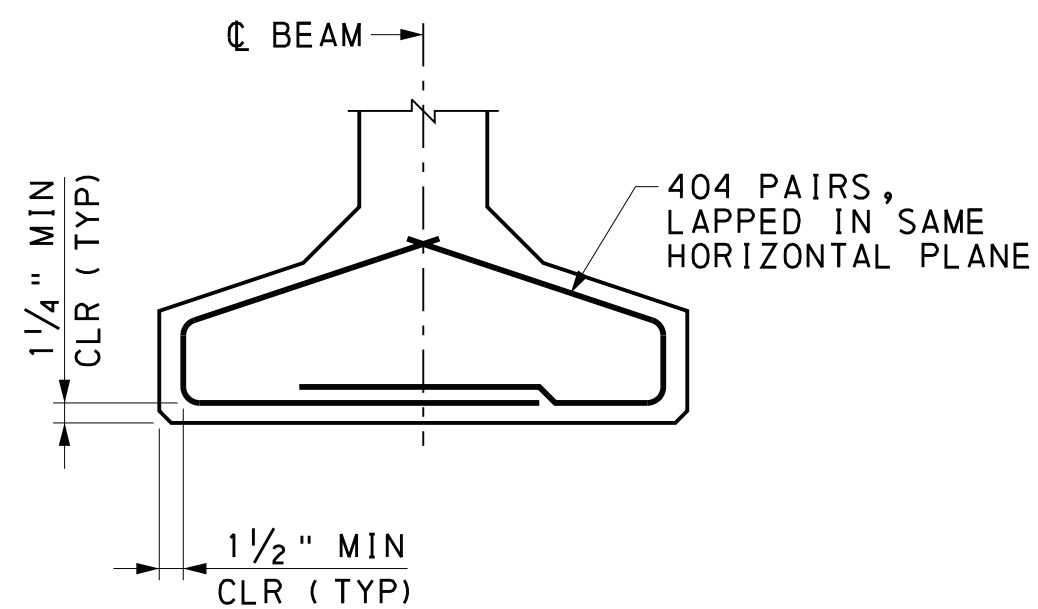
A = ESTIMATED PRESTRESS CAMBER LESS DEFLECTION DUE TO DEAD LOAD OF BEAM TIMES CREEP FACTOR. (CHECK IN FIELD)

B = DEFLECTION DUE TO ALL DEAD LOAD EXCEPT BEAM WEIGHT AND FUTURE WEARING SURFACE.

C = A-B = NET FINAL CAMBER.

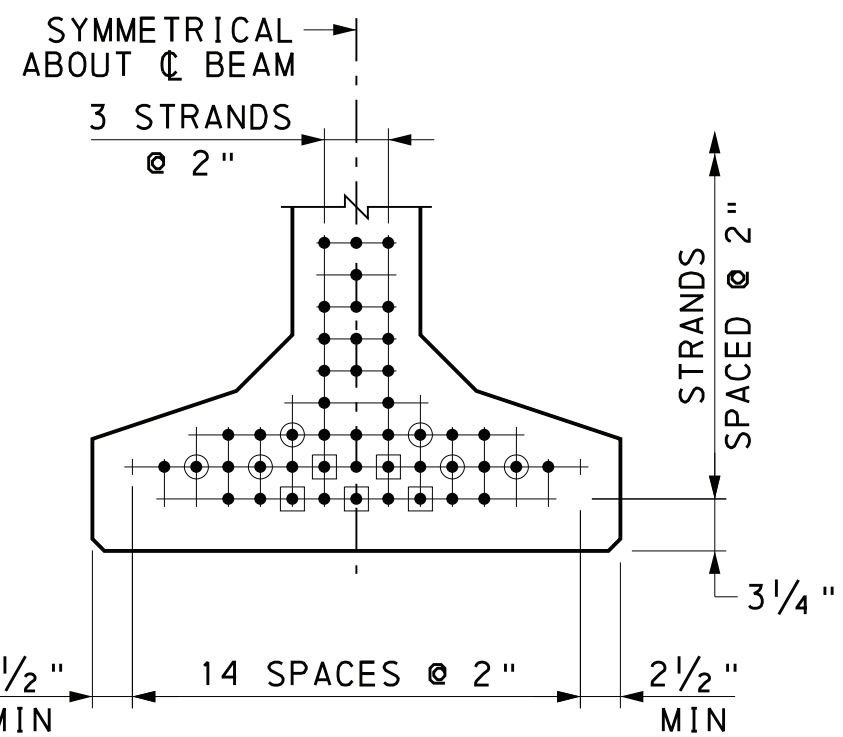
- VARY THE THICKNESS OF THE CONCRETE HAUNCH TO COMPENSATE FOR ANY DEVIATIONS OF THE ACTUAL CAMBER FROM THE DESIGN CAMBER.
- NEGATIVE HAUNCHES ARE NOT ALLOWED.
- A, B AND C ARE THEORETICAL VALUES AND MAY VARY WITH ACTUAL CONCRETE STRENGTH (AGE), VARIOUS PRESTRESSING CONDITIONS, CREEP FACTOR AND PRESTRESS LOSSES.
- A CREEP FACTOR EQUAL TO 1.6 AND P/S LOSS EQUAL TO 10% WAS USED.

CAMBER TABLE (INCHES)				
SPAN/BEAM		A	B	C
SPAN 1	BEAM 1 & 7	3.31	1.53	1.78
	BEAM 2	3.31	1.37	1.94
	BEAM 3-5	3.31	0.99	2.32
	BEAM 6	3.31	1.30	2.01
SPAN 2	BEAM 1 & 7	3.46	2.06	1.40
	BEAM 2	3.46	1.77	1.69
	BEAM 3-5	3.46	1.28	2.18
	BEAM 6	3.46	1.67	1.79
SPAN 3	BEAM 1 & 7	3.38	1.87	1.51
	BEAM 2	3.38	1.61	1.77
	BEAM 3-5	3.38	1.17	2.21
	BEAM 6	3.38	1.53	1.85



TYPICAL STRAND CONFINEMENT

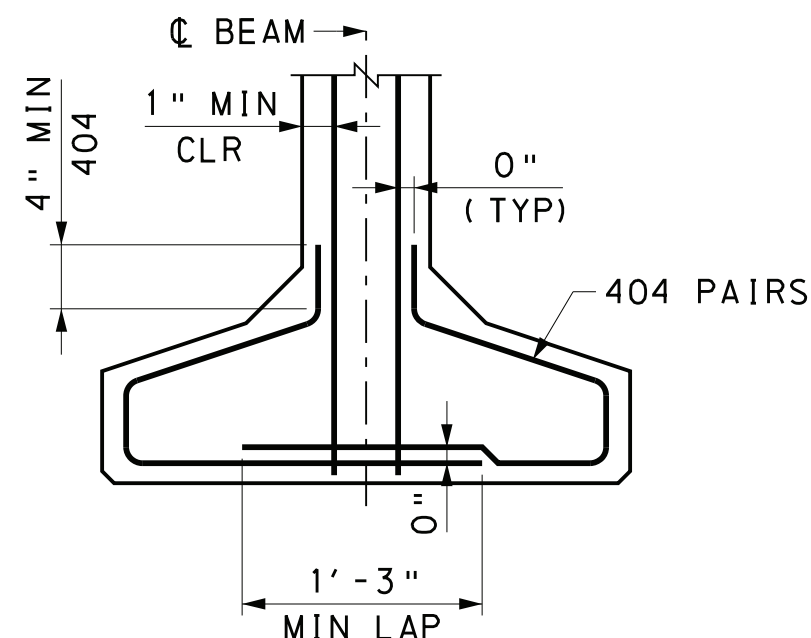
6 0 6 12 INCHES



- BONDED STRAND
- DEBONDED STRAND FROM C BRG TO 3'-0"
- DEBONDED STRAND FROM C BRG TO 6'-0"

TYPICAL STRAND PATTERN (SPANS 1-3)

6 0 6 12 INCHES



OPTIONAL 404 DETAIL

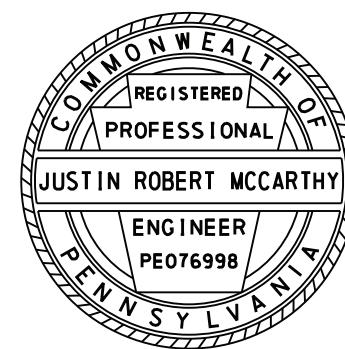
6 0 6 12 INCHES

REFERENCES:

GENERAL PLAN	1
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BEAM DETAILS	44 - 46
SLAB DRAWINGS	48 & 49
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SHEETS:

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BEAM NOTES:

- PROVIDE MATERIAL AND WORK QUALITY IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS AS OUTLINED IN THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408.
- EPOXY COAT ALL REINFORCEMENT WHICH PROTRUDES INTO BRIDGE DECK FROM TOP OF BEAMS.
- SHOW DESIGN LENGTH AND CASTING LENGTH ON SHOP DRAWINGS.
- SHOW PLAN, ELEVATION, SECTIONS AND ALL REINFORCEMENT DETAILS ON SHOP DRAWINGS.
- SHOW ANY MODIFICATIONS TO REINFORCEMENT SPLICE AND BENDING DETAILS ON SHOP DRAWINGS.
- SHOW THE FOLLOWING DATA ON THE SHOP DRAWINGS:
 - THE SIZE AND LOCATION OF THE TEMPORARY STORAGE SUPPORTS.
 - THE TYPE AND LOCATION OF THE BRACING AND TEMPORARY SUPPORTS USED FOR THE TRANSPORTATION AND ERECTION OF THE BEAMS.
- END ZONE REINFORCEMENT MAY BE INCREASED BY FABRICATOR TO REFLECT FABRICATOR'S EXPERIENCE AND/OR TO CONTROL CRACKING.
- FABRICATOR TO CHECK STABILITY FOR HANDLING AND TRANSPORTING OF THE MEMBERS.
- MIN COVER: STIRRUPS - 1" MIN
ALL OTHERS - 1 1/2" MIN

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

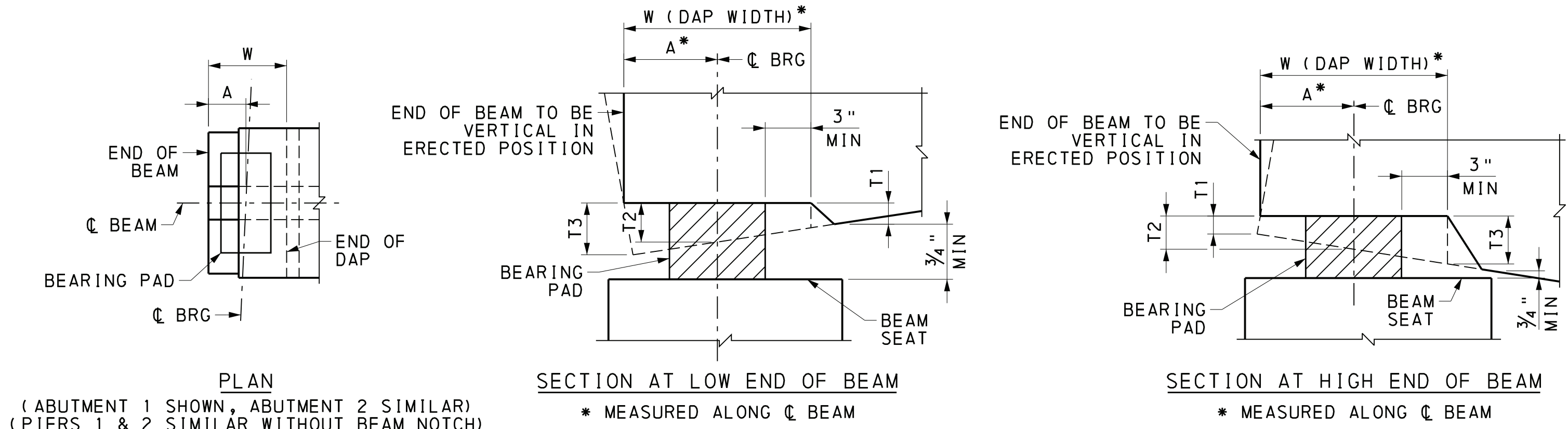
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BEAM DETAILS 2

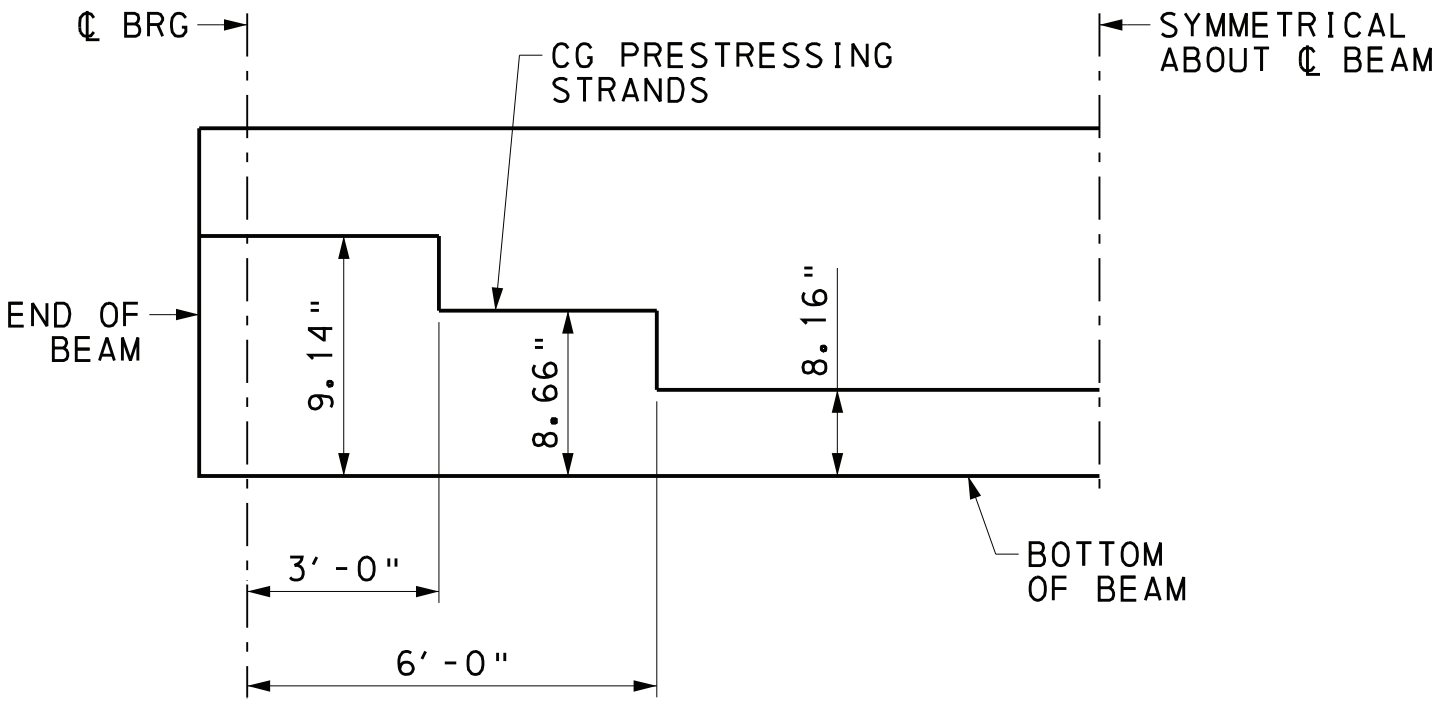
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BEAM DAP DETAILS
NOT TO SCALE



DEBONDING DIAGRAM
NOT TO SCALE

DAP DIMENSIONS		
LOCATION/DIMENSION	BEAM 1-7	
ABUT 1 (LOW END)	W	18 1/2"
	A	9"
	T1	1/4"
	T2	7/8"
PIER 1 NEAR (HIGH END)	T3	1 1/6"
	W	15"
	A	7"
	T1	1/4"
PIER 1 FAR (LOW END)	T2	5/8"
	T3	1"
	W	15"
	A	7"
PIER 2 NEAR (HIGH END)	T1	1/4"
	T2	1/2"
	T3	3/4"
	W	15"
PIER 2 FAR (HIGH END)	A	7"
	T1	1/4"
	T2	5/16"
	T3	3/8"
ABUT 2 (LOW END)	W	18 1/2"
	A	9"
	T1	1/4"
	T2	7/16"
	T3	5/8"

BEAM DAP NOTES:

- T1 IS DAP THICKNESS AT END OF BEAM FOR HIGHER END OF BEAM AND DAP THICKNESS AT BEGINNING OF DAP FOR LOWER END OF BEAM. T1 MINIMUM IS 1/4".
- T2 IS DAP THICKNESS AT CENTERLINE OF BEARING.
- T3 IS DEFINED AS THE DAP THICKNESS BASED ON THE SLOPE OF THE BEAM DUE TO THE GRADE AND CAMBER.
- BEAM SEAT AND BOTTOM OF BEAM BEARING AREA REQUIREMENTS AS PER DESIGN MANUAL PART 4, SECTION 14.7.6.3.9dP.
- MAXIMUM GRADE FOR USE OF DAPPING IS BASED ON LIMITING THE MAXIMUM DAP THICKNESS TO 1 1/2" AND MAINTAINING 1" MINIMUM CONCRETE COVER ON CONFINEMENT REINFORCEMENT IN THE PROPOSED BEAM DAPPING AREA.
- FOR BEAM DAPPING, A MINIMUM CLEARANCE OF 3/4" MUST BE PROVIDED BETWEEN THE BOTTOM OF THE BEAM (WITHOUT CONSIDERATION OF THE DAP) AND THE TOP OF BEAM SEAT TO ENSURE INSPECTABILITY OF BEARING PAD.
- PARTIAL-WIDTH BEAM DAPS ARE NOT PERMITTED.
- THE MAXIMUM DAP THICKNESS IS 1 1/2".
- ENSURE THAT ALL CONCRETE COVER REQUIREMENTS ON STEEL CONFINEMENT REINFORCEMENT AND PRESTRESSING STRANDS ARE SATISFIED WHEN USING BEAM DAPS TO MODIFY THE BOTTOM OF BEAM AREA.

PRESTRESSING DATA:

PRESTRESSED BEAM SIZE = 33/53 PA BULB-TEE.
CONCRETE STRENGTH AT STRAND RELEASE = 8500 PSI.
CONCRETE STRENGTH AT 28 DAYS (F'C) = 10000 PSI.
USE ONLY 0.6" DIA OVERSIZED GRADE 270, LOW RELAXATION STRANDS FOR AS-DESIGNED BEAMS.
TOTAL NUMBER OF STRANDS = 46
JACKING PRESTRESS STRESS = 202500 PSI.
JACKING PRESTRESS FORCE PER BEAM = 2021.4 KIPS

BEAM SECTION PROPERTIES			
SECTION PROPERTY	BASIC BEAM	COMPOSITE BEAM, TRANSFORMED PROPERTIES*	
		BEAM 1 & 7	BEAM 2-6
AREA - IN ²	805.25	-	-
EFF. WIDTH - IN	-	88.12	91.00
I - IN ⁴	291,741	598,017	604,540
Y TOP SLAB - IN	-	26.22	25.99
Y TOP BEAM - IN	28.50	18.72	18.49
Y BOT BEAM - IN	24.50	34.28	34.51
S TOP SLAB - IN ³	-	22,804	23,259
S TOP BEAM - IN ³	10,238	31,939	32,692
S BOT BEAM - IN ³	11,906	17,447	17,519

* PROPERTIES DO NOT INCLUDE THE HAUNCH HEIGHT.
PROPERTIES TAKEN AT CL SPAN.

REFERENCES:

GENERAL PLAN
GENERAL NOTES
FRAMING PLAN
BEAM DETAILS
SLAB DRAWINGS
DIAPHRAGM DETAILS

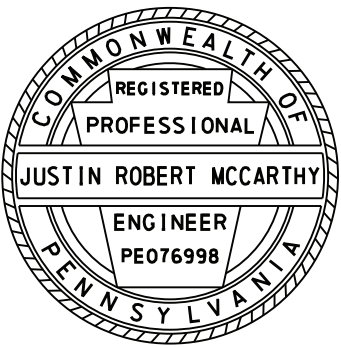
SHEETS:

1
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48 & 49
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Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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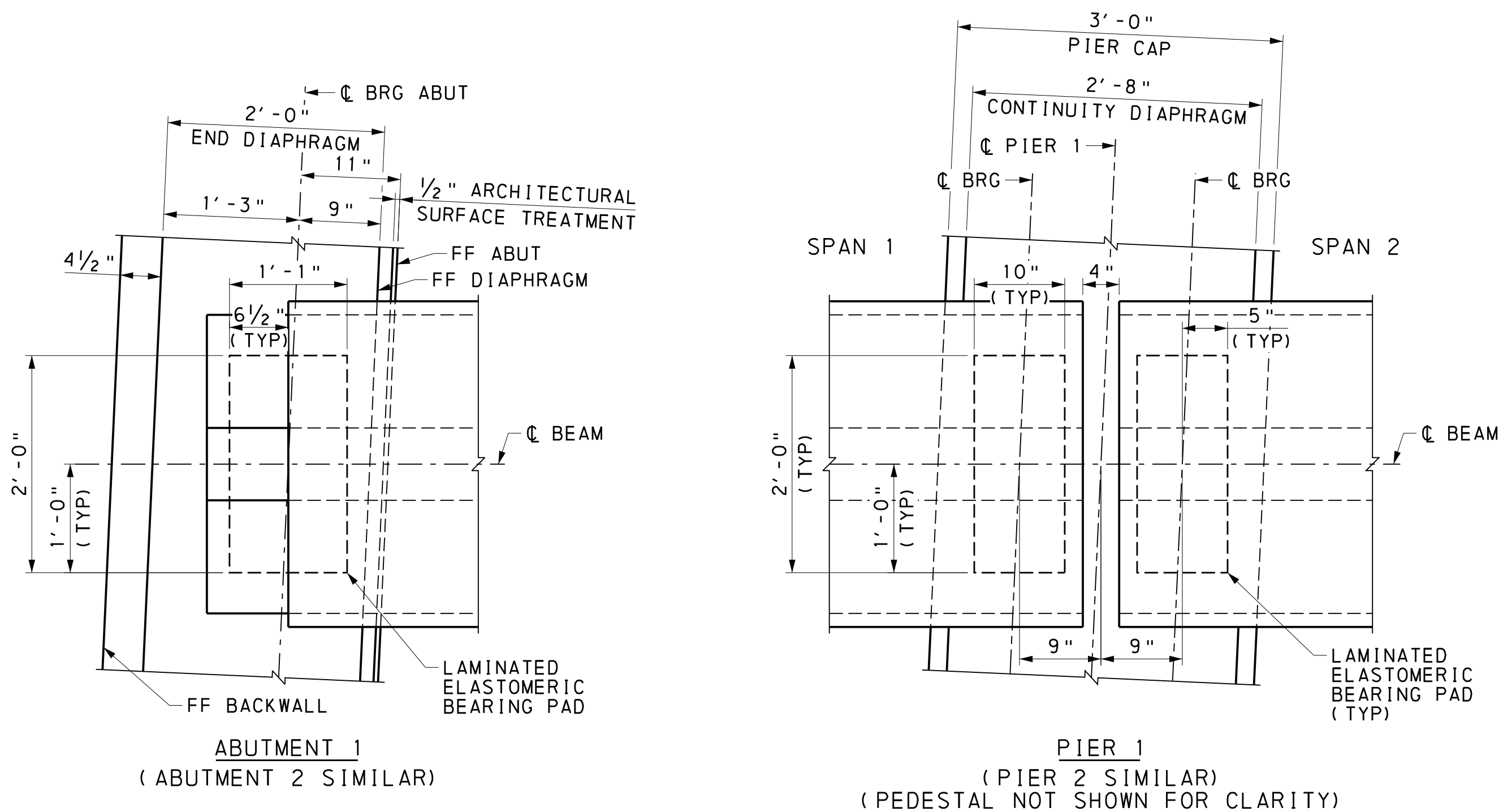
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BEAM DETAILS 3

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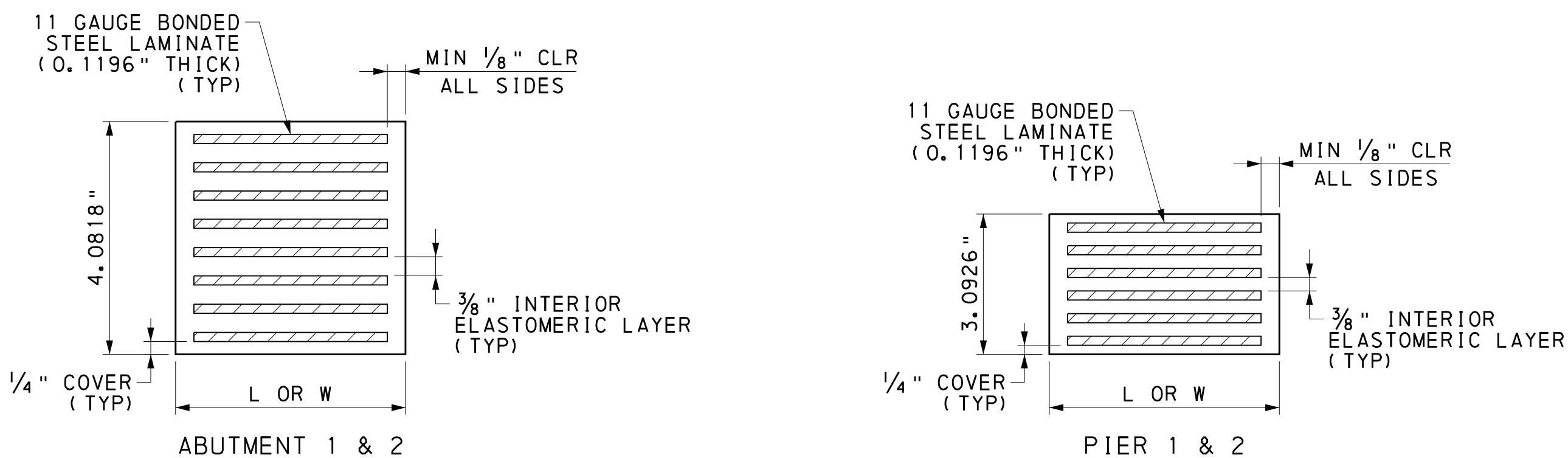
SHEET 46 OF 93

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ELASTOMERIC BEARING PAD PLAN

6 0 6 12 INCHES



ELASTOMERIC BEARING PAD TYPICAL SECTIONS

NOT TO SCALE

NOTES:

1. SMOOTH CUT AND DEBURR METAL SHIMS.
2. GRIT BLAST AND DEGREASE METAL SHIMS.
3. MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB. 408) SECTION 1113.
4. ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
5. PROVIDE NEOPRENE 50 +/-5 DUROMETER.
6. PROVIDE MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
7. PROVIDE INTERNAL SHIMS AS PER ASTM A36 GRADE 36.
8. VULCANIZE PATCH PIN GROOVES.
9. FABRICATOR MAY USE CONTRACT DRAWINGS TO FABRICATE BEARING PADS.
10. FOR ADDITIONAL BEARING PAD DETAILS AND STANDARD BEARING DETAILS AND NOTES, SEE BC-755M.
11. PAYMENT FOR BEARING PADS IS CONSIDERED INCIDENTAL TO THE PRESTRESSED CONCRETE PA BULB-TEE BEAMS.

DESIGN CRITERIA:

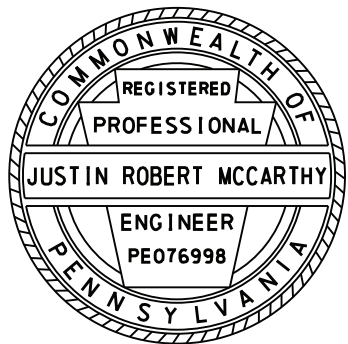
1. CONSTRUCTION TOLERANCE ABOUT TRANSVERSE AXIS OF PAD = 0.003 RADIANS
2. CONSTRUCTION TOLERANCE ABOUT LONGITUDINAL AXIS OF PAD = 0.000 RADIANS

ELASTOMERIC BEARING PADS				
LOCATION	BEARING TYPE	ITEM DESCRIPTION	SIZE (T x L x W)	NUMBER REQUIRED
ABUT 1	EXPANSION	LAMINATED PADS	4.0818" x 13" x 2'-0"	7
PIER 1	FIXED	LAMINATED PADS	3.0926" x 10" x 2'-0"	14
PIER 2	FIXED	LAMINATED PADS	3.0926" x 10" x 2'-0"	14
ABUT 2	EXPANSION	LAMINATED PADS	4.0818" x 13" x 2'-0"	7

Mark	Description	By	Chk' d	Recm' d	Date
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DEPARTMENT OF TRANSPORTATION

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SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BEARING DETAILS

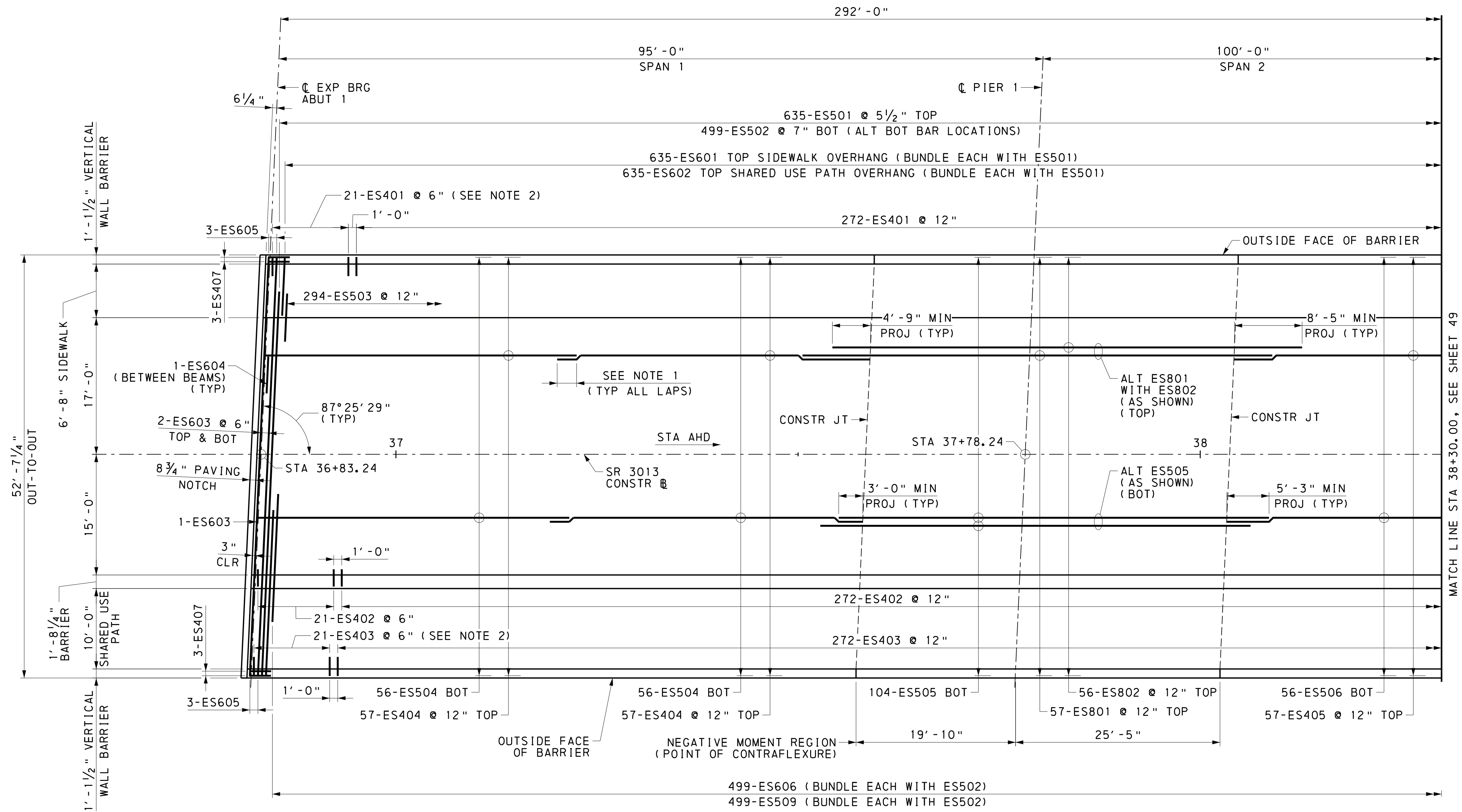
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REFERENCES:

GENERAL NOTES
FRAMING PLAN
BEAM DETAILS
DIAPHRAGM SHEETS

SHEETS:

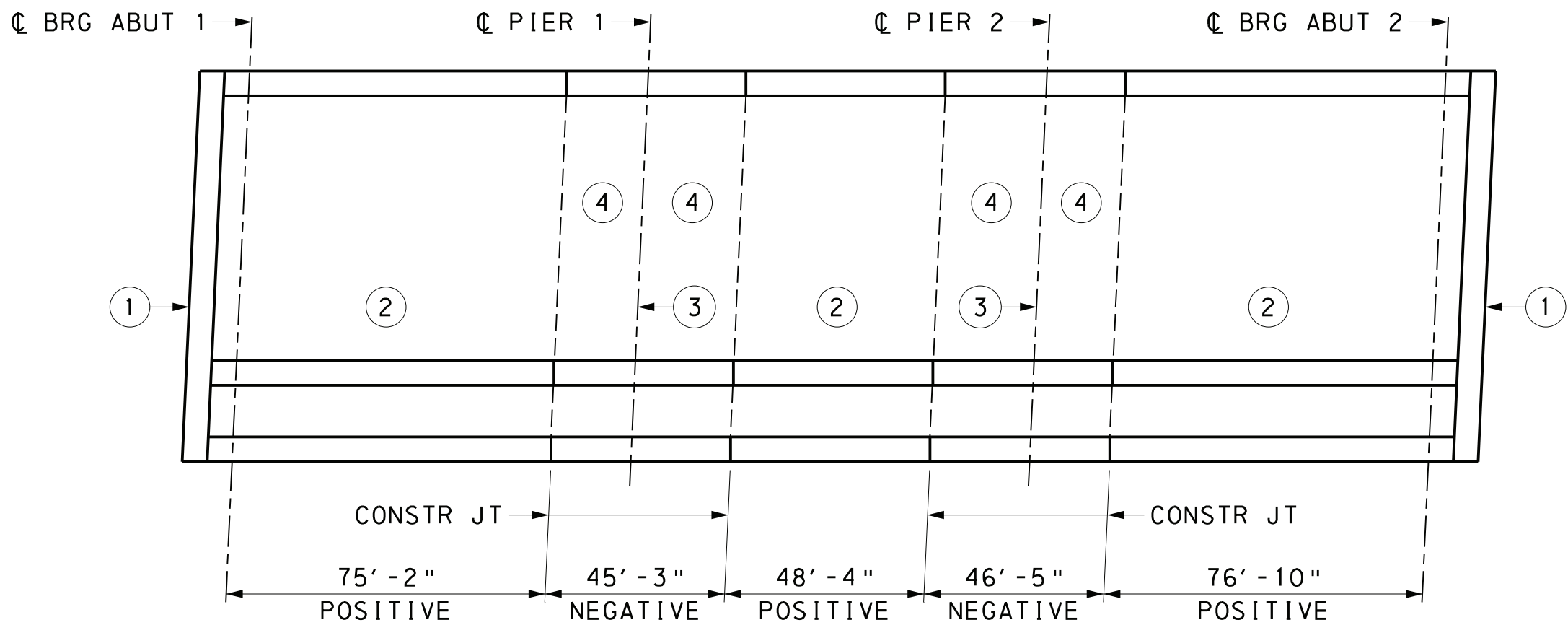
1
43
44 - 46
54 - 56



NOTES:

- DECK SLAB LAP SPLICE LENGTH:
#4 BARS - 2'-5"
#5 BARS - 3'-0"
#6 BARS - 3'-7"
- PROVIDE ONE ADDITIONAL ES401 OR ES403 BAR ON EACH SIDE OF BARRIER LIGHTING BLOCKOUT. ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS.

SLAB PLAN
2 0 4 8 FEET



DECK PLACEMENT SEQUENCE

NOT TO SCALE

LEGEND:

- (X) CONCRETE POUR SEQUENCE NUMBER

DECK PLACEMENT SEQUENCE NOTES:

- CAST INTERMEDIATE DIAPHRAGMS, SHEAR BLOCKS BETWEEN BEAMS AND END DIAPHRAGMS AT ABUTMENTS.
- CAST SLAB IN POSITIVE MOMENT REGIONS.
- CAST CONTINUITY DIAPHRAGMS AT PIERS.
- CAST SLAB IN NEGATIVE MOMENT REGIONS 2 HOURS MINIMUM AFTER THE PLACEMENT OF CONTINUITY DIAPHRAGMS.

AN ALTERNATE DECK PLACEMENT SEQUENCE MAY BE USED IF PRIOR APPROVAL IS GRANTED BY THE REPRESENTATIVE.

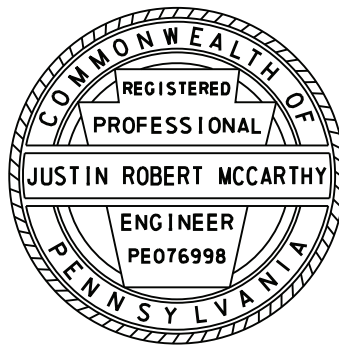
REFERENCES:

- GENERAL PLAN
GENERAL NOTES
SLAB PLAN 2
SLAB TYPICAL SECTIONS
BARRIER & SIDEWALK DETAILS
DIAPHRAGM DETAILS

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Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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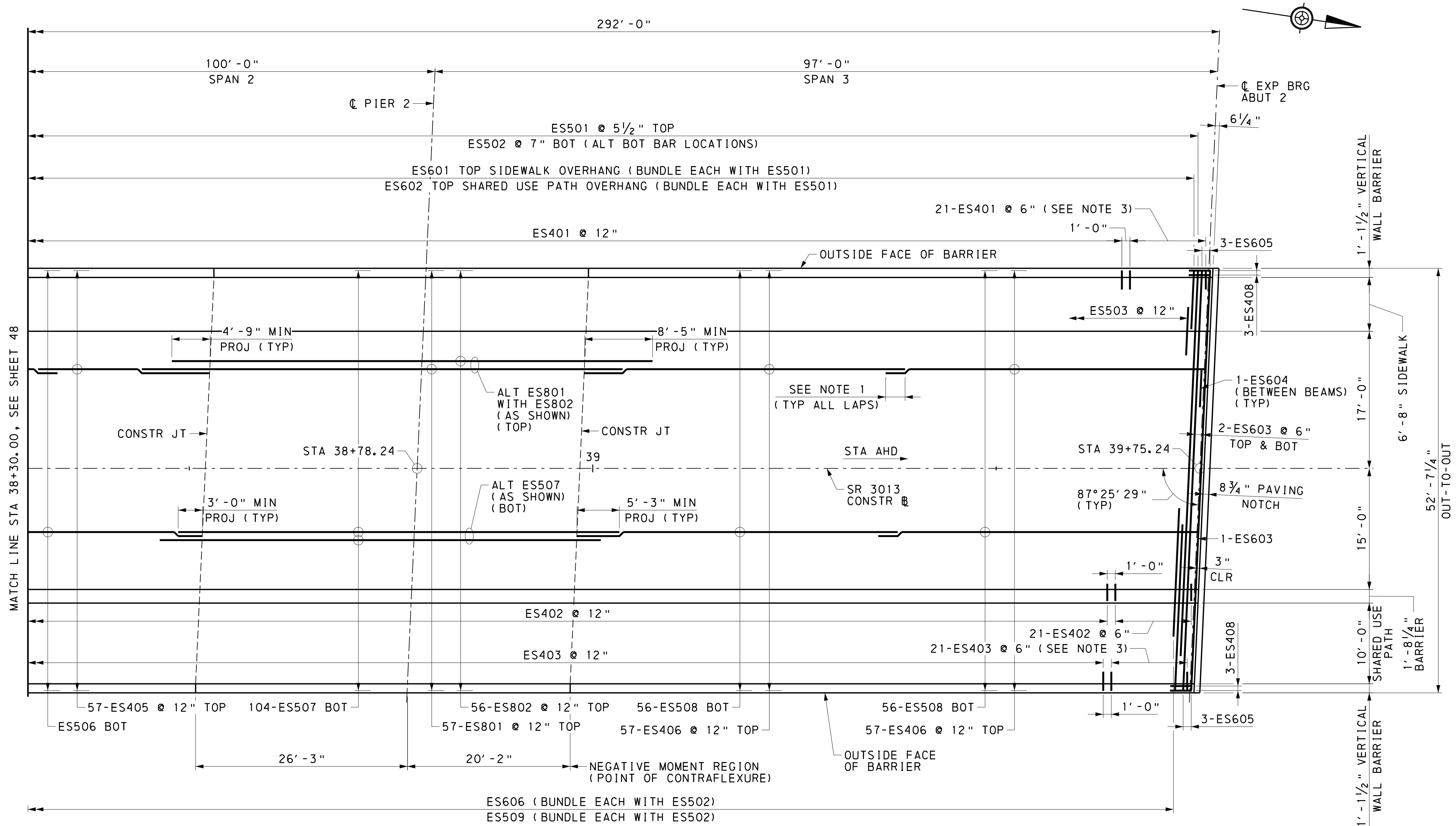
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SLAB PLAN 1

RECOMMENDED 12-6-2022

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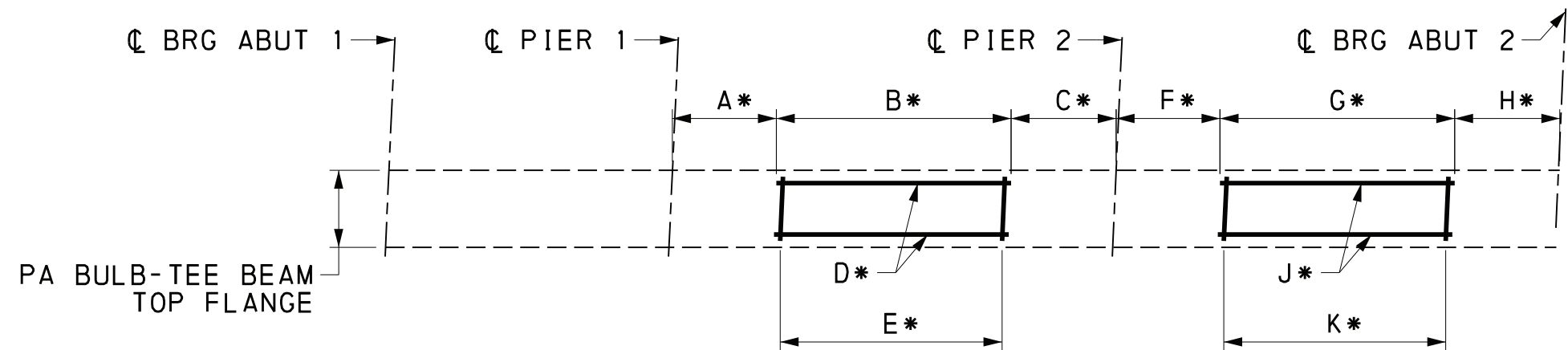
S-39451



NOTES:

- DECK SLAB LAP SPLICE LENGTH:
#4 BARS - 2'-5"
#5 BARS - 3'-0"
#6 BARS - 3'-7"
- THE HAUNCH REINFORCEMENT QUANTITY SHOWN ON THE REINFORCEMENT BAR SCHEDULE PROVIDES THE AMOUNT NECESSARY TO COVER THE LIMITS SHOWN ON THE HAUNCH REINFORCEMENT PLAN. PROVIDE ADDITIONAL HAUNCH REINFORCEMENT IN OTHER REGIONS ALONG THE LENGTH OF THE BEAM WHERE ACTUAL HAUNCHES EXCEED THE THICKNESSES SPECIFIED IN BC-752M.
- PROVIDE ONE ADDITIONAL ES401 OR ES403 BAR ON EACH SIDE OF BARRIER LIGHTING BLOCKOUT. ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS.

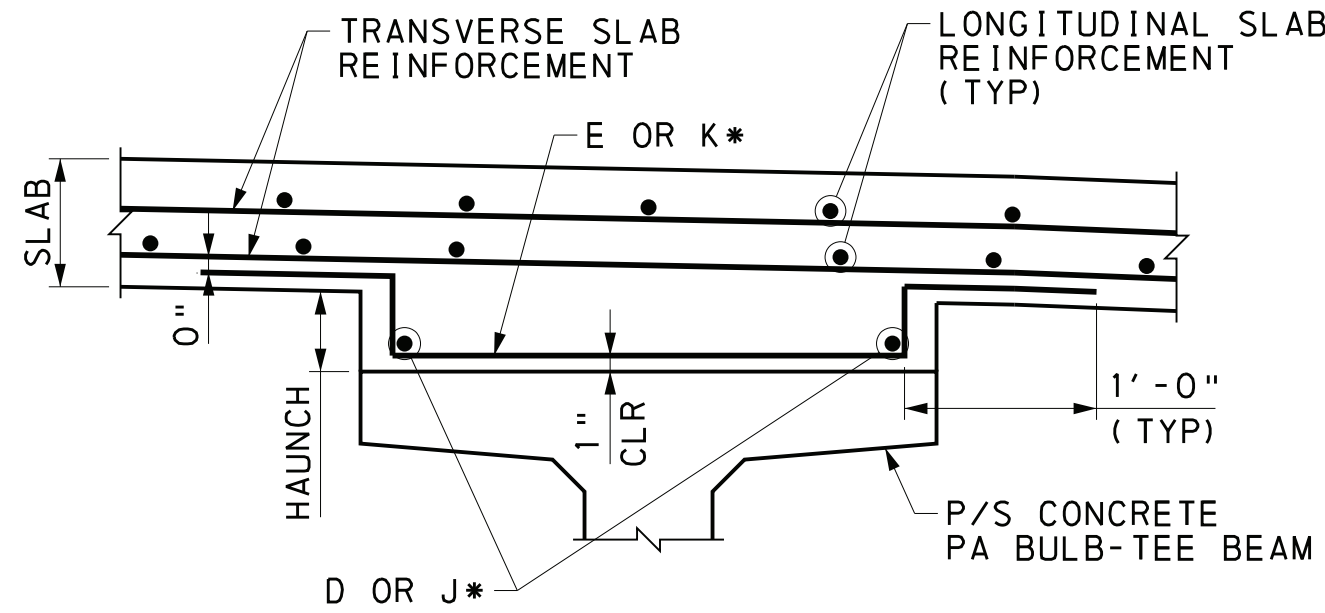
SLAB PLAN
2 0 4 8 FEET



* SEE HAUNCH REINFORCEMENT TABLE
HAUNCH REINFORCEMENT PLAN
NOT TO SCALE

HAUNCH REINFORCEMENT TABLE										
BEAM	A	B*	C	D	E	F	G*	H	J	K
BEAM 1	27'-9"	48'-0"	24'-3"	ES409	43-ES301 @ 14"	23'-9"	50'-0"	23'-3"	ES409	44-ES301 @ 14"
BEAM 2	20'-1"	65'-0"	14'-11"	ES410	57-ES301 @ 14"	15'-2"	67'-0"	14'-10"	ES410	59-ES301 @ 14"
BEAM 3	27'-5"	50'-0"	22'-7"	ES409	44-ES301 @ 14"	22'-6"	53'-0"	21'-6"	ES411	47-ES301 @ 14"
BEAM 4	27'-10"	49'-0"	23'-2"	ES409	43-ES301 @ 14"	21'-10"	54'-0"	21'-2"	ES411	48-ES301 @ 14"
BEAM 5	28'-2"	49'-0"	22'-10"	ES409	43-ES301 @ 14"	22'-2"	53'-0"	21'-10"	ES411	47-ES301 @ 14"
BEAM 6	21'-6"	62'-0"	16'-6"	ES410	55-ES301 @ 14"	16'-6"	65'-0"	15'-6"	ES410	57-ES301 @ 14"
BEAM 7	27'-10"	50'-0"	22'-2"	ES409	44-ES301 @ 14"	21'-10"	54'-0"	21'-2"	ES411	48-ES301 @ 14"

* DOES NOT INCLUDE 1'-11" MINIMUM LAP.

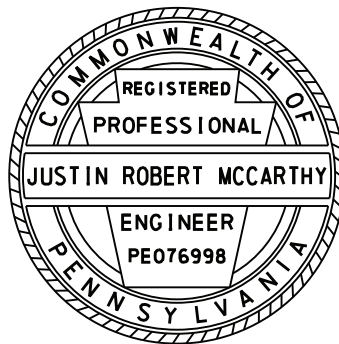


* SEE HAUNCH REINFORCEMENT TABLE
HAUNCH REINFORCEMENT DETAIL
6 0 6 12 INCHES

REFERENCES:

REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
SLAB PLAN 1	48
SLAB TYPICAL SECTIONS	50 & 51
BARRIER & SIDEWALK DETAILS	52 & 53
DIAPHRAGM DETAILS	54 - 56

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

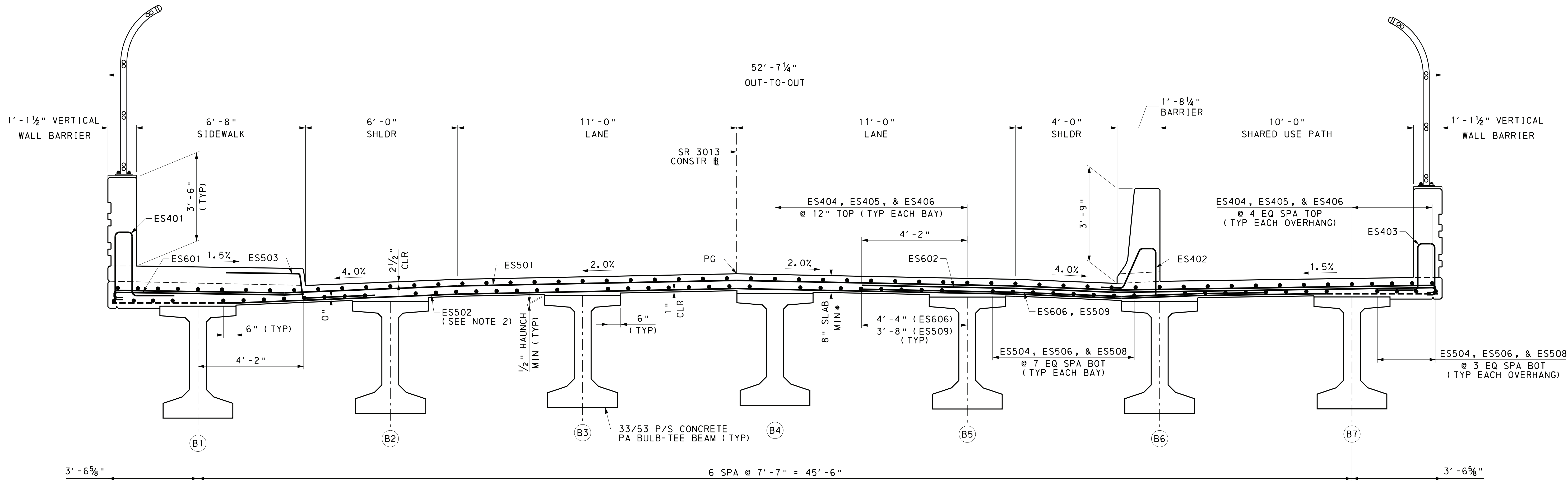
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SLAB PLAN 2

RECOMMENDED 12-6-2022

SHEET 49 OF 93

S-39451



SLAB TYPICAL SECTION - POSITIVE MOMENT

* INCLUDES 1/2" INTEGRAL WEARING SURFACE

TOTAL DECK SLAB THICKNESS TABLE						
BEAM	℄ BRG ABUT 1	℄ BRG PIER 1, SPAN 1	℄ BRG PIER 1, SPAN 2	℄ BRG PIER 2, SPAN 2	℄ BRG PIER 2, SPAN 3	℄ BRG ABUT 2
BEAM 1	10 1/4"	10 1/4"	8 1/2"	8 1/2"	8 1/2"	8 1/2"
BEAM 2	11 1/8"	11 1/8"	9 1/4"	9 1/4"	9 1/4"	9 1/4"
BEAM 3	11 1/8"	11 1/8"	8 7/8"	8 7/8"	8 7/8"	8 7/8"
BEAM 4	11 1/8"	11 1/8"	8 7/8"	8 7/8"	8 7/8"	8 7/8"
BEAM 5	11 1/8"	11 1/8"	8 7/8"	8 7/8"	8 7/8"	8 7/8"
BEAM 6	11 5/8"	11 5/8"	9 5/8"	9 5/8"	9 5/8"	9 5/8"
BEAM 7	10 3/4"	10 3/4"	8 3/4"	8 3/4"	8 3/4"	8 3/4"

MEASURED AT ℄ BEAM. VALUES INCLUDE DECK THICKNESS, HAUNCH THICKNESS, AND EFFECT OF DECK CROSS SLOPE.

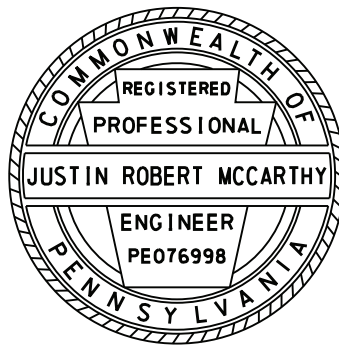
NOTES:

- BARRIER AND SIDEWALK REINFORCEMENT NOT SHOWN FOR CLARITY.
- EXTEND ONE HALF OF ES502 BARS ACROSS THE FULL WIDTH OF THE OVERHANG. THE ALTERNATE BARS WHICH DO NOT EXTEND INTO THE OVERHANG SHALL EXTEND 6" MINIMUM BEYOND THE INTERIOR EDGE OF THE FLANGE OF THE FASCIA BEAM.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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REFERENCES:

- GENERAL PLAN
- GENERAL NOTES
- BEAM DETAILS
- SLAB PLANS
- SLAB TYPICAL SECTION 2
- BARRIER & SIDEWALK DETAILS
- BARRIER ARCHITECTURAL DETAILS

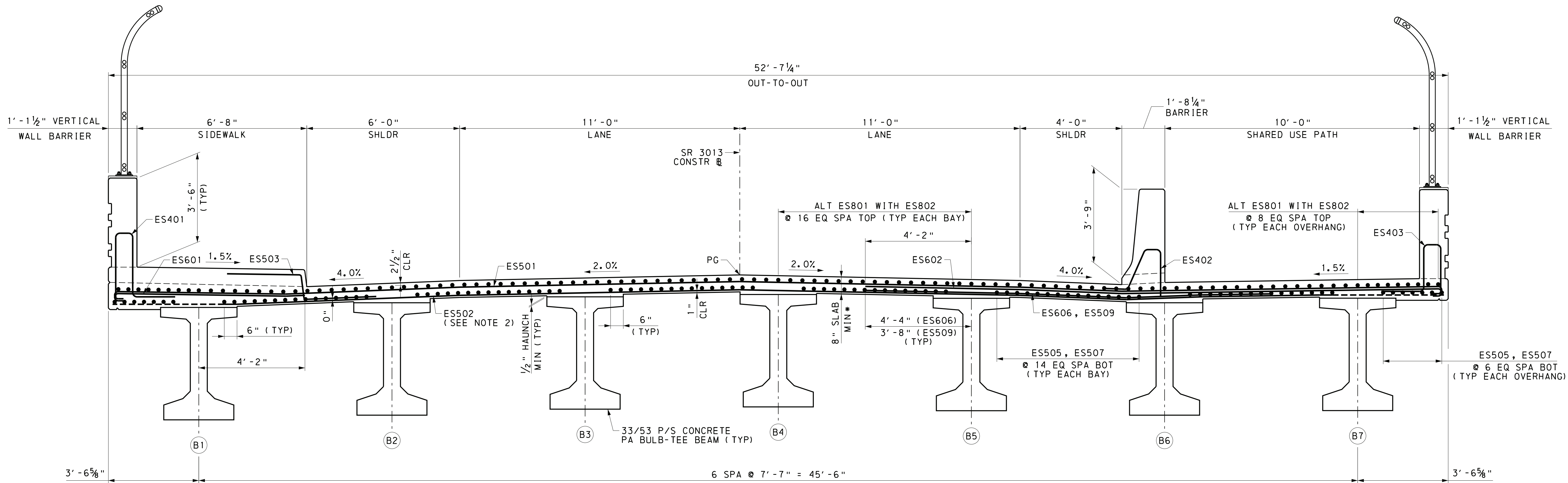
SHEETS:

- 1
- 4 & 5
- 44 - 46
- 48 & 49
- 51
- 52 & 53
- 81 & 82

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SLAB TYPICAL SECTION 1

RECOMMENDED 12-6-2022
SHEET 50 OF 93
S-39451



SLAB TYPICAL SECTION - NEGATIVE MOMENT

* INCLUDES 1/2" INTEGRAL WEARING SURFACE

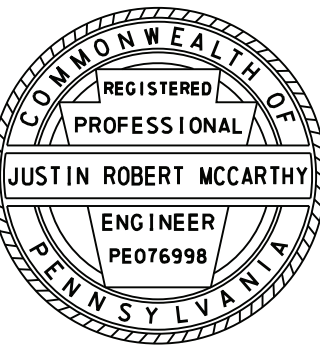


- NOTES:**
- BARRIER AND SIDEWALK REINFORCEMENT NOT SHOWN FOR CLARITY.
 - EXTEND ONE HALF OF ES502 BARS ACROSS THE FULL WIDTH OF THE OVERHANG. THE ALTERNATE BARS WHICH DO NOT EXTEND INTO THE OVERHANG SHALL EXTEND 6" MINIMUM BEYOND THE INTERIOR EDGE OF THE FLANGE OF THE FASCIA BEAM.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SLAB TYPICAL SECTION 2

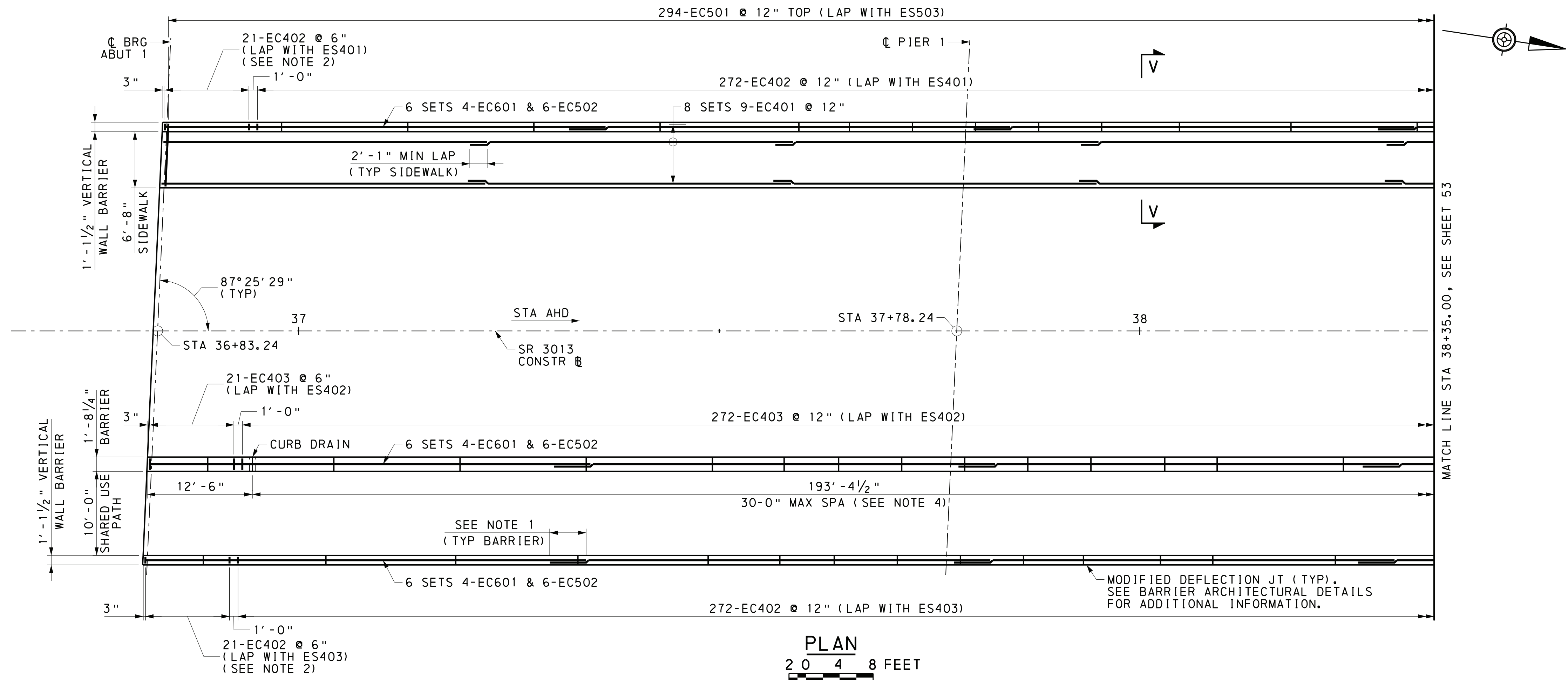
RECOMMENDED 12-6-2022

SHEET 51 OF 93

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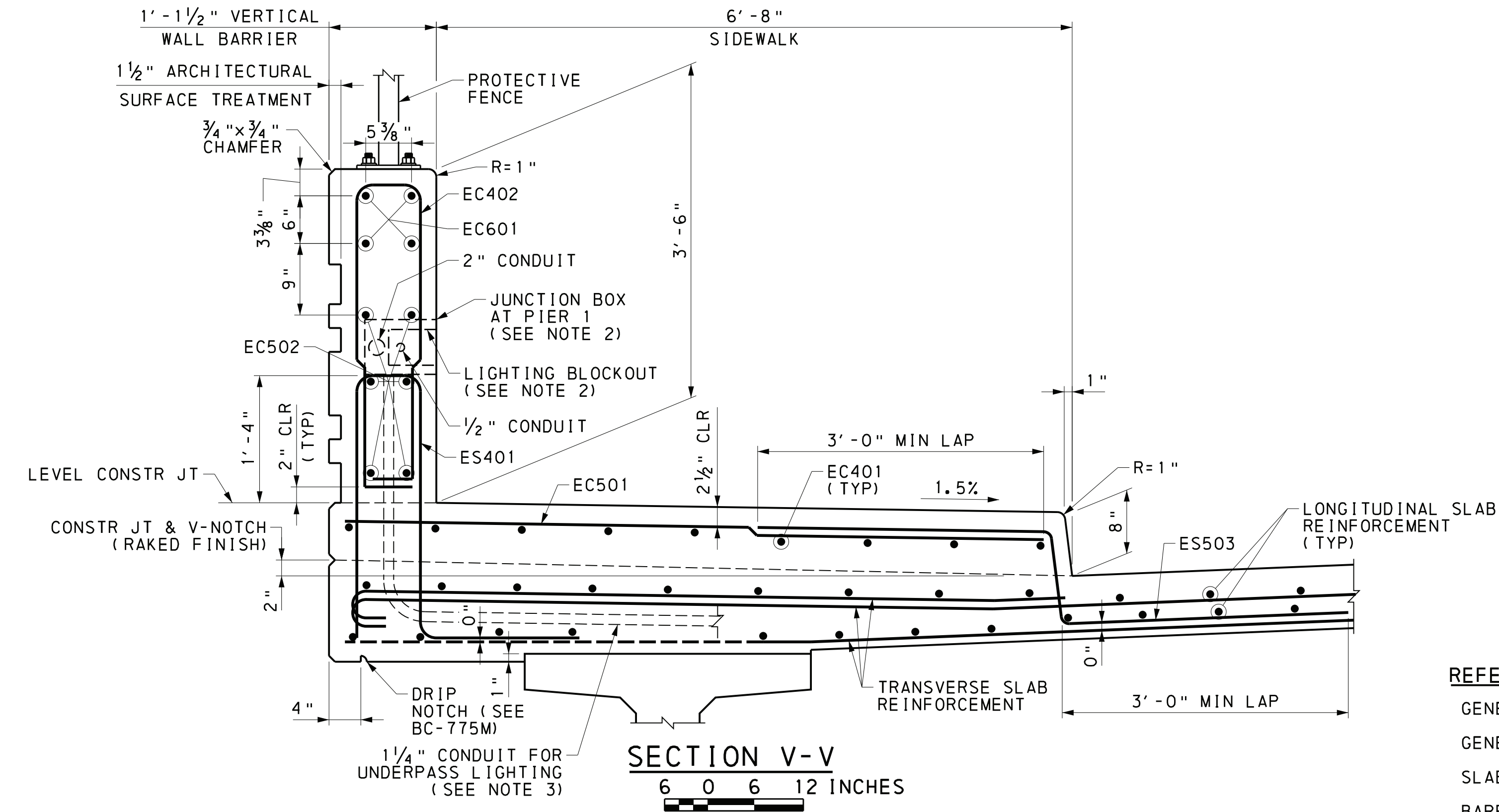
REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
BEAM DETAILS	44 - 46
SLAB PLANS	48 & 49
SLAB TYPICAL SECTION 1	50
BARRIER & SIDEWALK DETAILS	52 & 53
BARRIER ARCHITECTURAL DETAILS	81 & 82

6/23/2022 63016-s-brB1-ty03.dgn



NOTES:

- BARRIER LAP SPLICE LENGTH:
#5 BARS - 3'-7"
#6 BARS - 4'-4"
- PROVIDE ONE ADDITIONAL EC402 BAR ON EACH SIDE OF BARRIER LIGHTING BLOCKOUT (LAP WITH ES401/ES403). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.
- REFER TO HIGHWAY LIGHTING ALSO PLAN FOR UNDERPASS LIGHTING DETAILS ON EACH SIDE OF PIER 1.
- PROVIDE 6" MIN SPACING FROM C OF CURB DRAIN TO MODIFIED DEFLECTION JOINT. REFER TO BC-752M FOR ADDITIONAL INFORMATION.



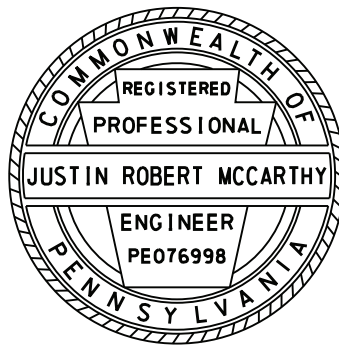
REFERENCES:

GENERAL PLAN	1
GENERAL NOTES	4 & 5
SLAB PLANS	44 - 46
BARRIER & SIDEWALK DETAILS 2	53
BARRIER ARCHITECTURAL DETAILS	81 & 82
PROTECTIVE FENCE DETAILS	83

SHEETS:

1
4 & 5
44 - 46
53
81 & 82
83

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Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

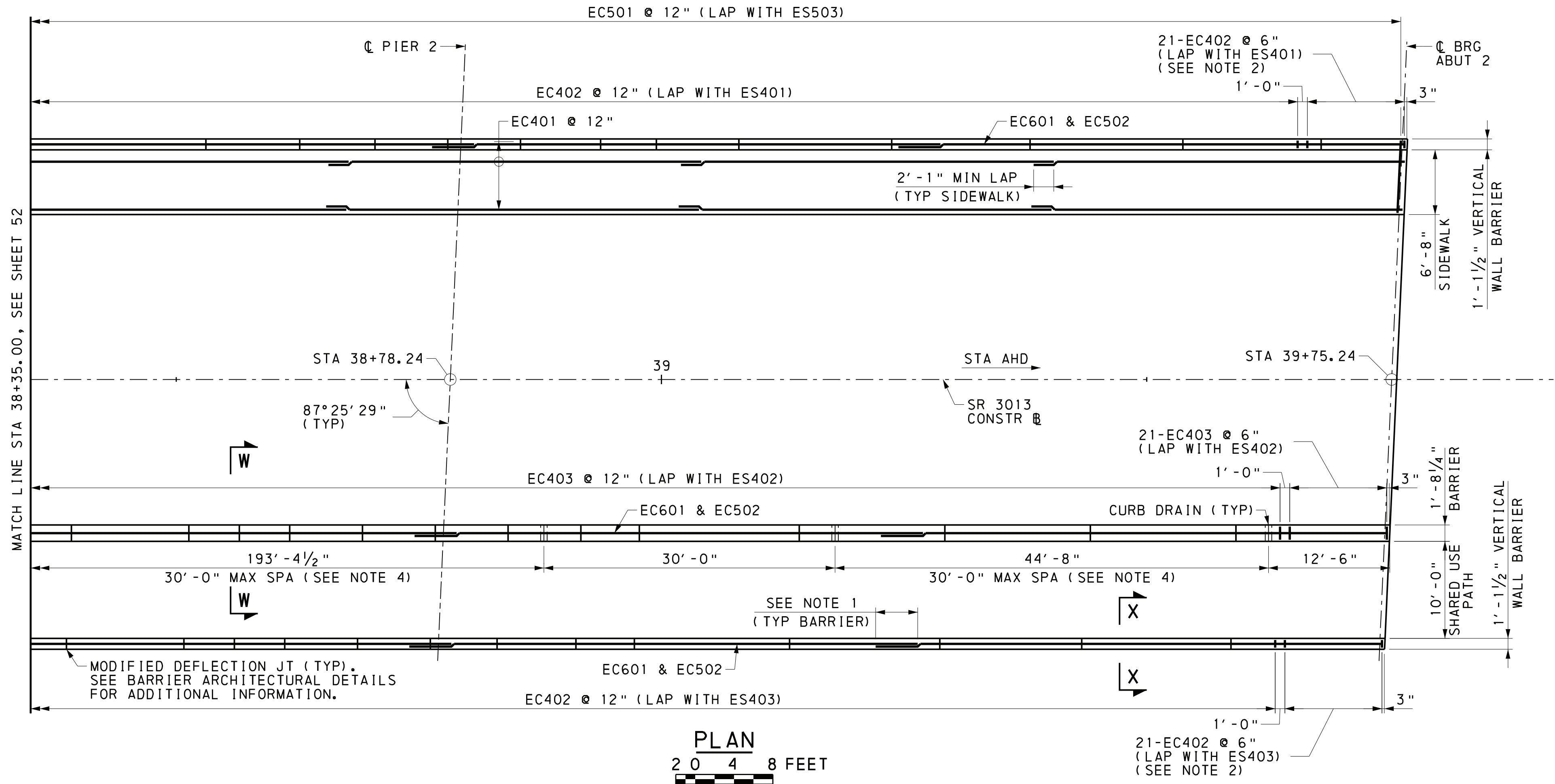
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BARRIER & SIDEWALK DETAILS 1

RECOMMENDED 12-6-2022

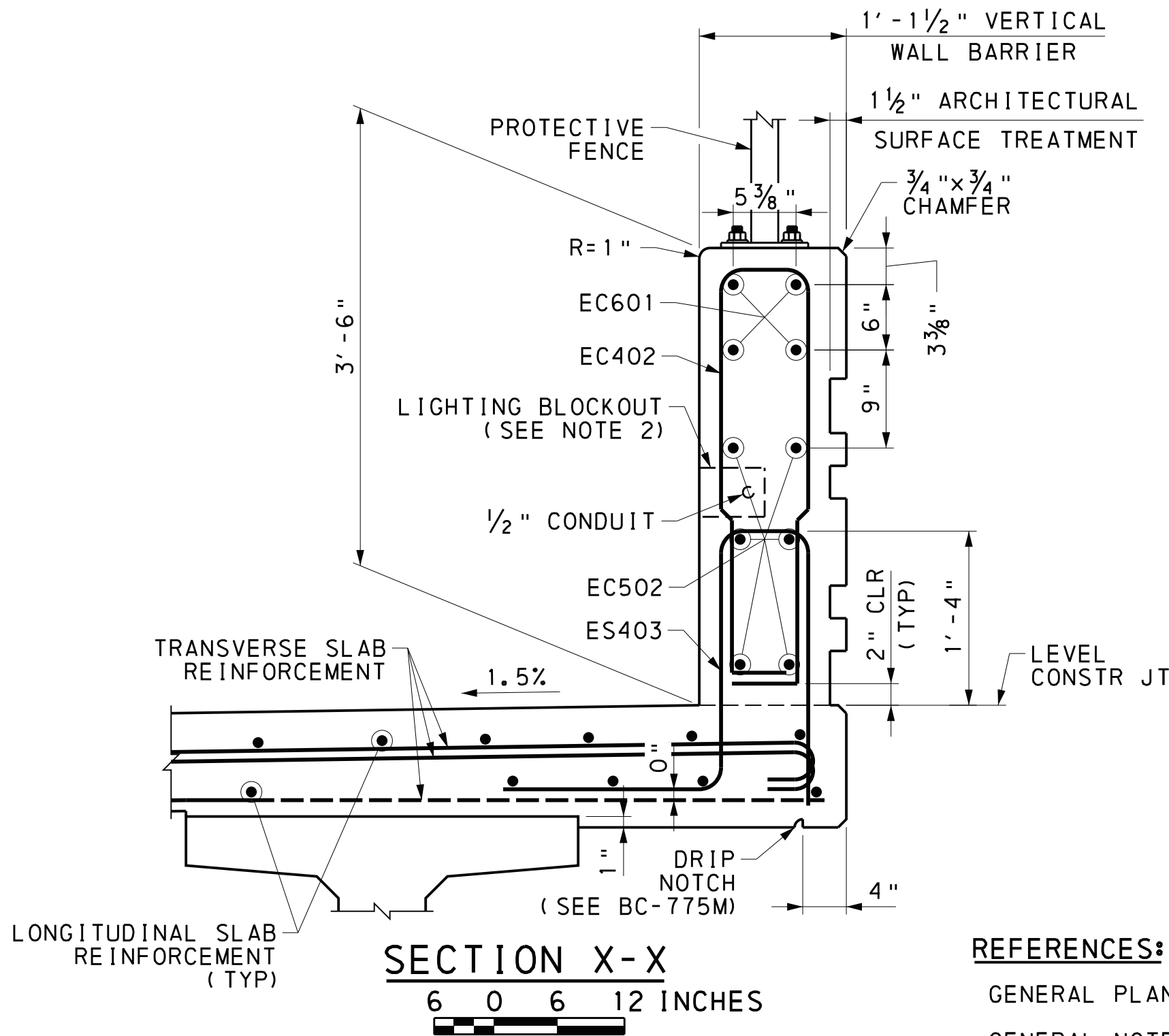
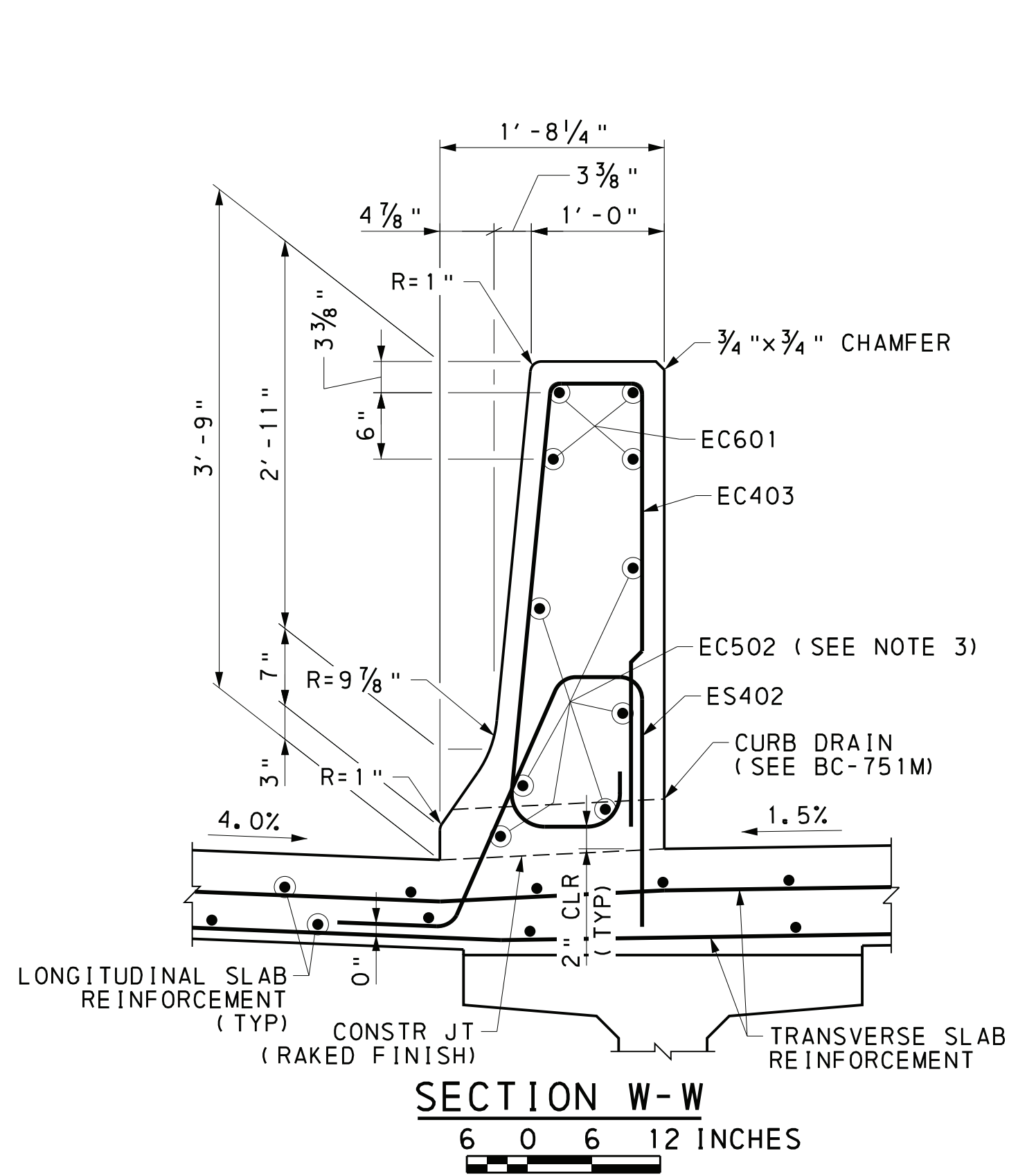
SHEET 52 OF 93

S-39451



NOTES:

- BARRIER LAP SPLICE LENGTH:
#5 BARS - 3'-7"
#6 BARS - 4'-4"
- PROVIDE ONE ADDITIONAL EC402 BAR ON EACH SIDE OF BARRIER LIGHTING BLOCKOUT (LAP WITH ES401/ES403). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.
- FIELD ADJUST EC502 BARS IN BARRIER AT CURB DRAIN LOCATIONS AS REQUIRED.
- PROVIDE 6" MIN SPACING FROM C OF CURB DRAIN TO MODIFIED DEFLECTION JOINT. REFER TO BC-752M FOR ADDITIONAL INFORMATION.



REFERENCES:

GENERAL PLAN	1
GENERAL NOTES	4 & 5
SLAB PLANS	44 - 46
BARRIER & SIDEWALK DETAILS 1	52
BARRIER ARCHITECTURAL DETAILS	81 & 82
PROTECTIVE FENCE DETAILS	83

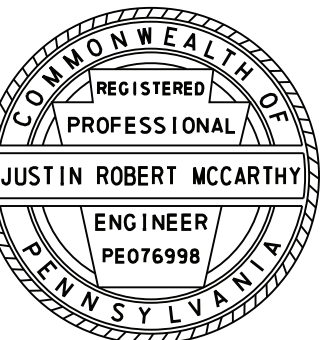
SHEETS:

1
4 & 5
44 - 46
52
81 & 82
83

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

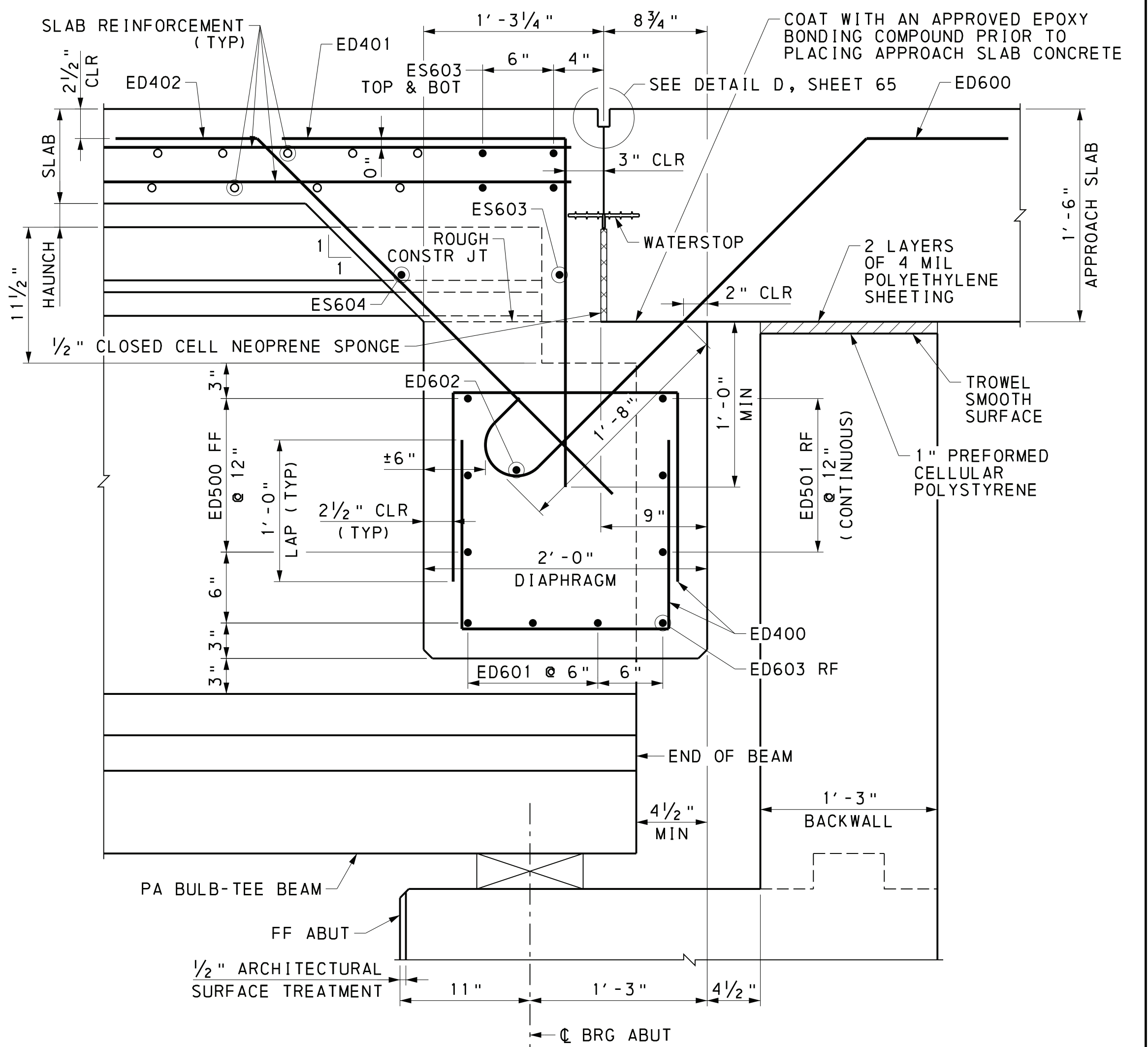
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SUITE 300
HARRISBURG, PA 17110

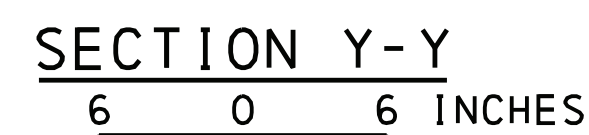
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE BARRIER & SIDEWALK DETAILS 2	
RECOMMENDED 12-6-2022	SHEET 53 OF 93
S-39451	

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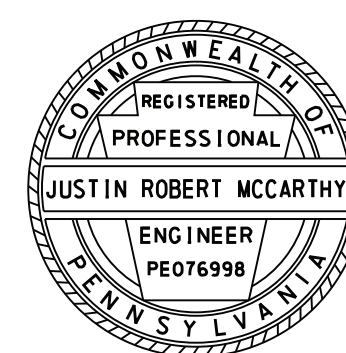


SECTION Z-Z
6 0 6 INCHES

1. USE ONE SIZE SMALLER INSERT FOR DEFORMED BARS. THE MINIMUM LENGTH OF THE INSERT IS 3". INSERTS TO BE GALVANIZED OR COMPLETELY ZINC-ELECTROPLATED.



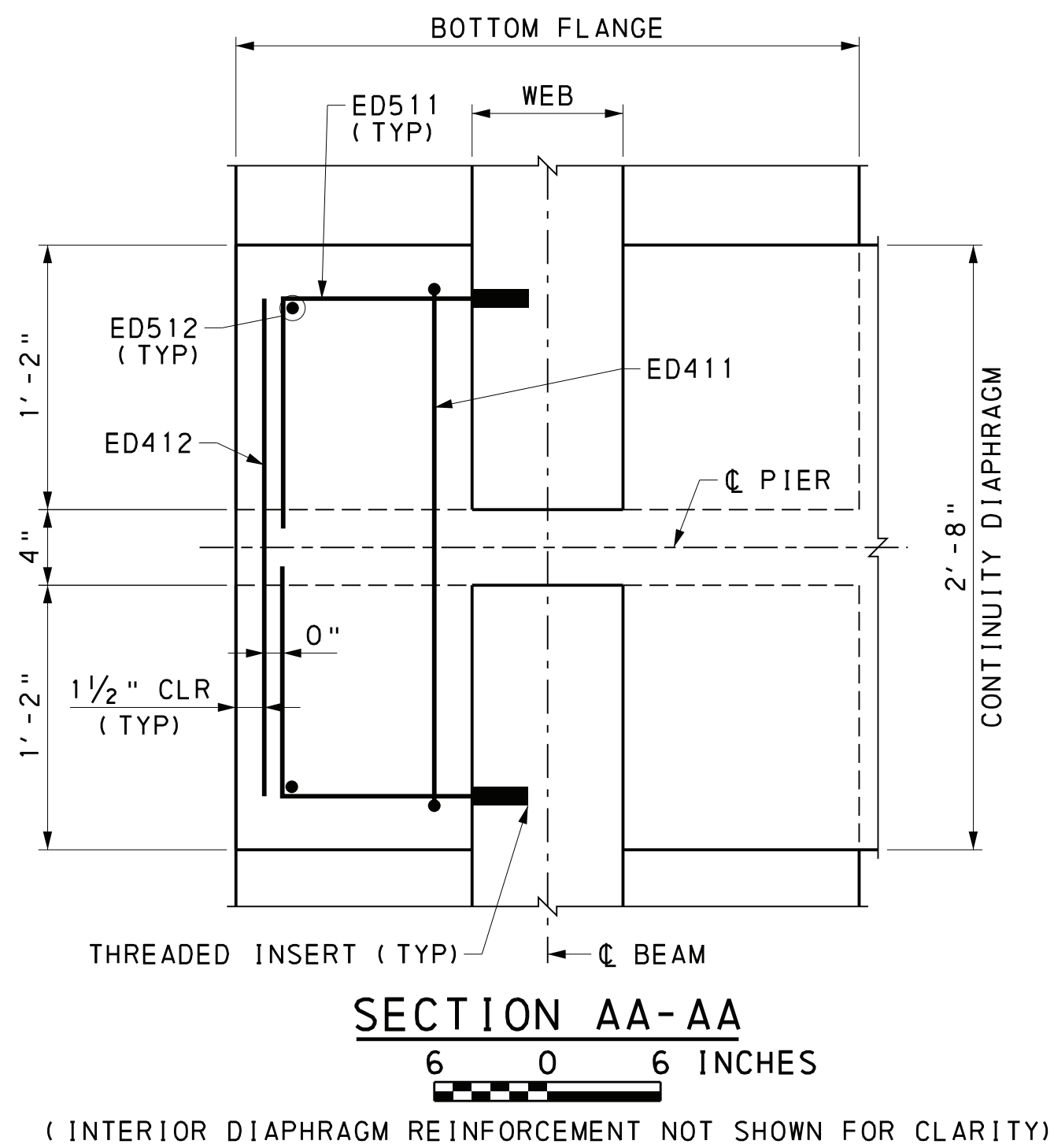
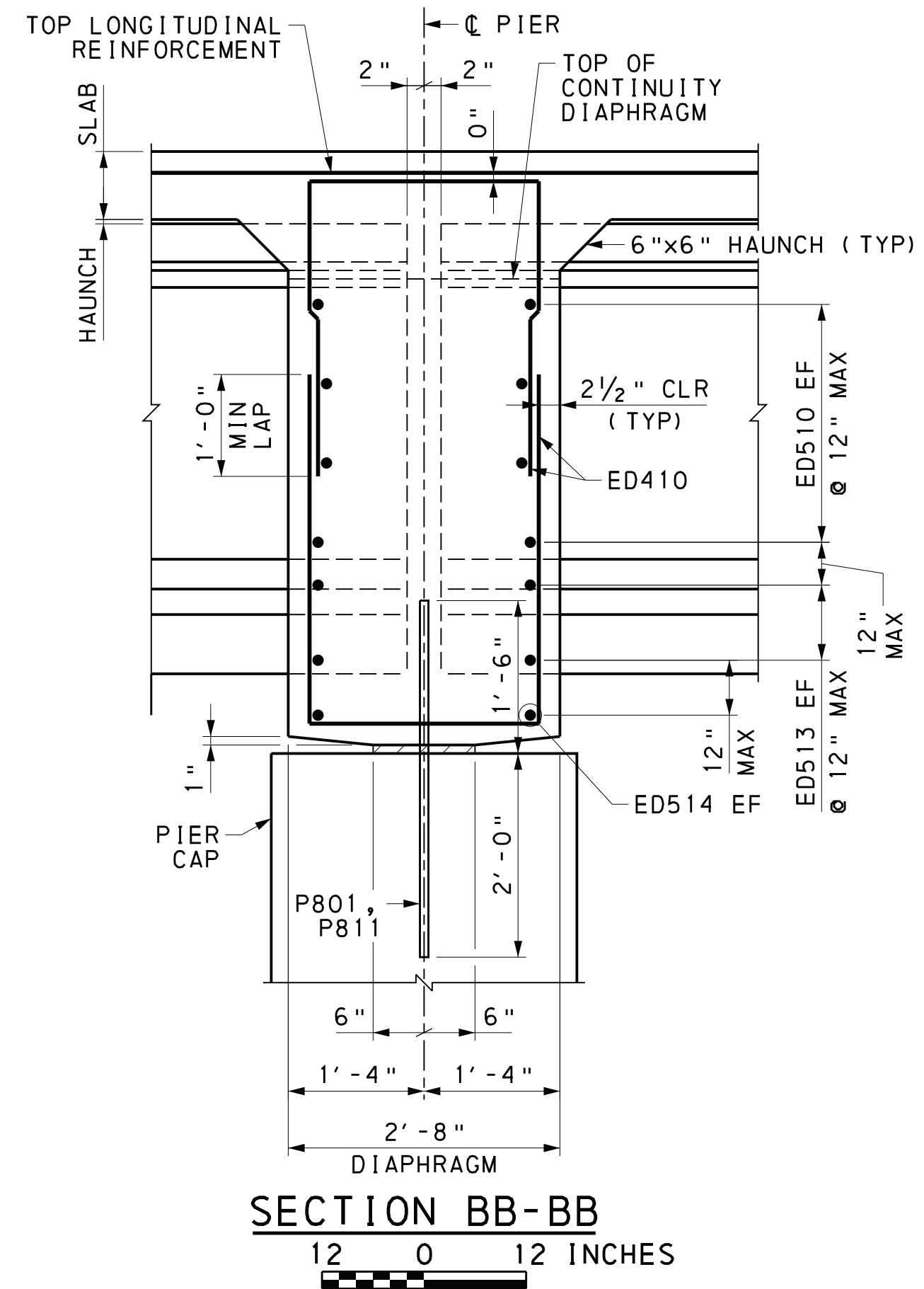
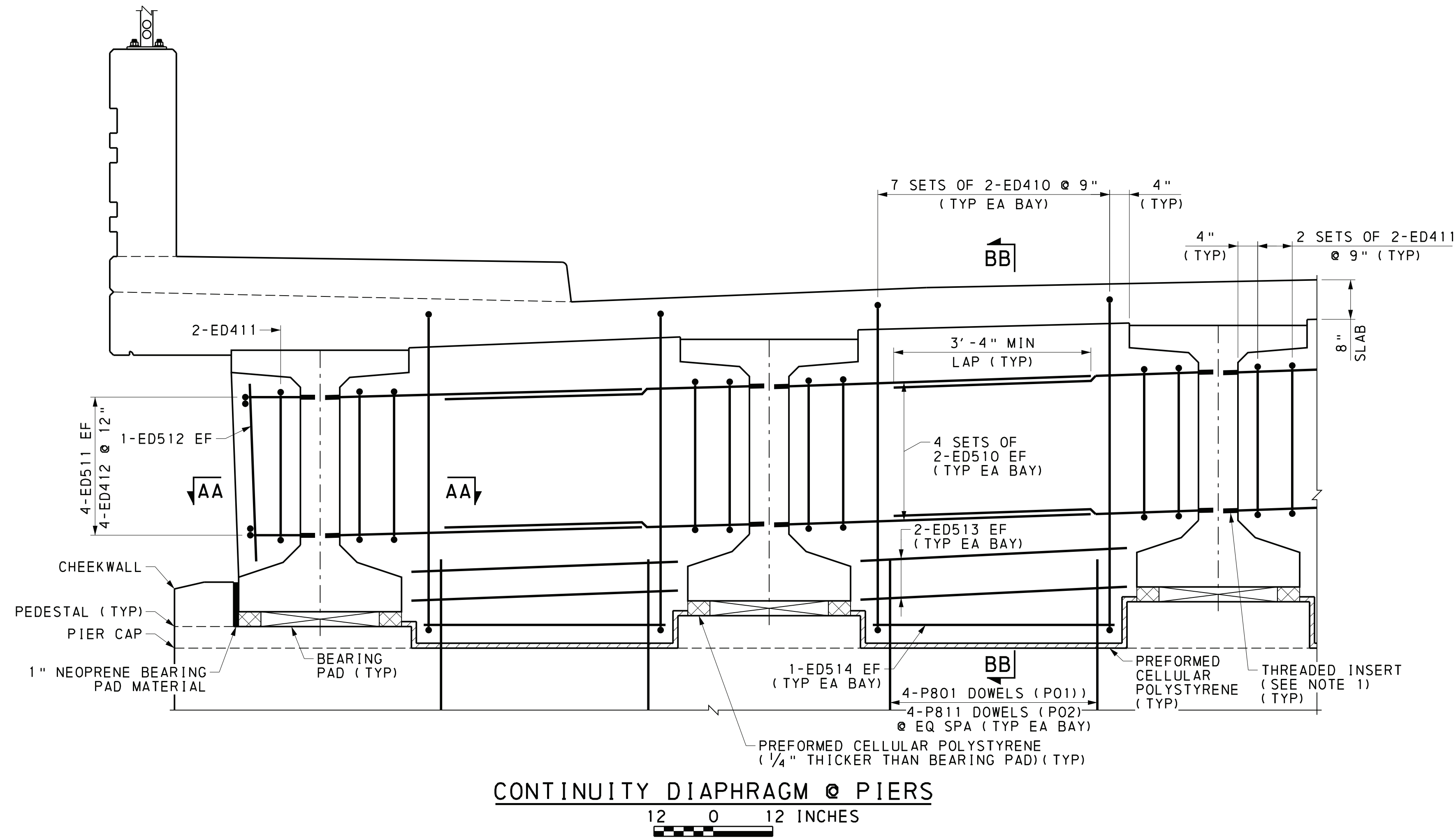
1
4 & 5
43
44 - 46
48 & 49
54 - 56



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

RECOMMENDED <u>12-6-2022</u>	SHEET <u>54</u> OF <u>93</u>
	S-39451



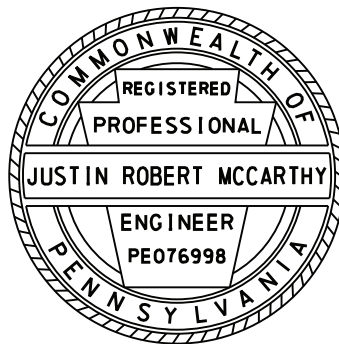
- NOTES:
1. USE ONE SIZE SMALLER INSERT FOR DEFORMED BARS. THE MINIMUM LENGTH OF THE INSERT IS 3". INSERTS TO BE GALVANIZED OR COMPLETELY ZINC-ELECTROPLATED.

REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
FRAMING PLAN	43
BEAM DETAILS	44 - 46
SLAB PLANS	48 & 49
DIAPHRAGM DETAILS	54 - 56

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

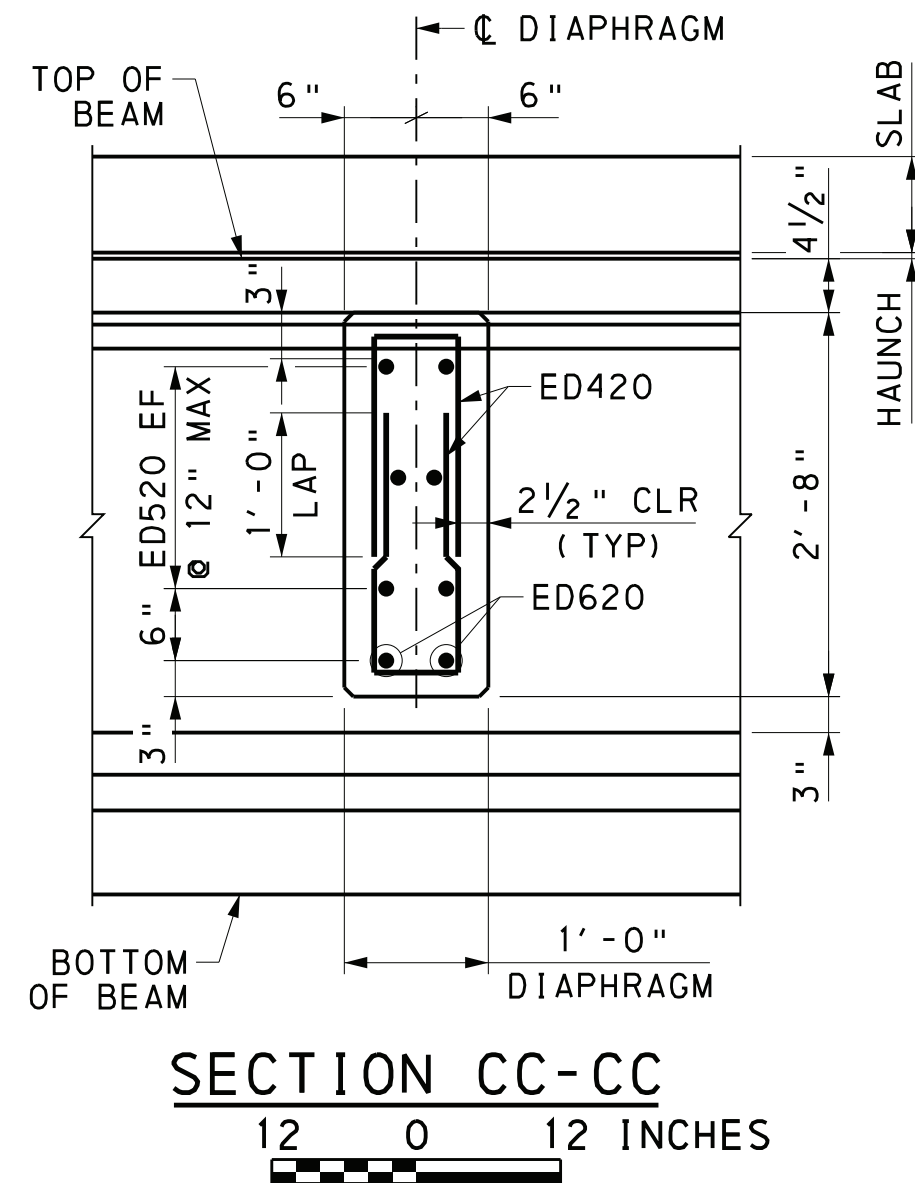
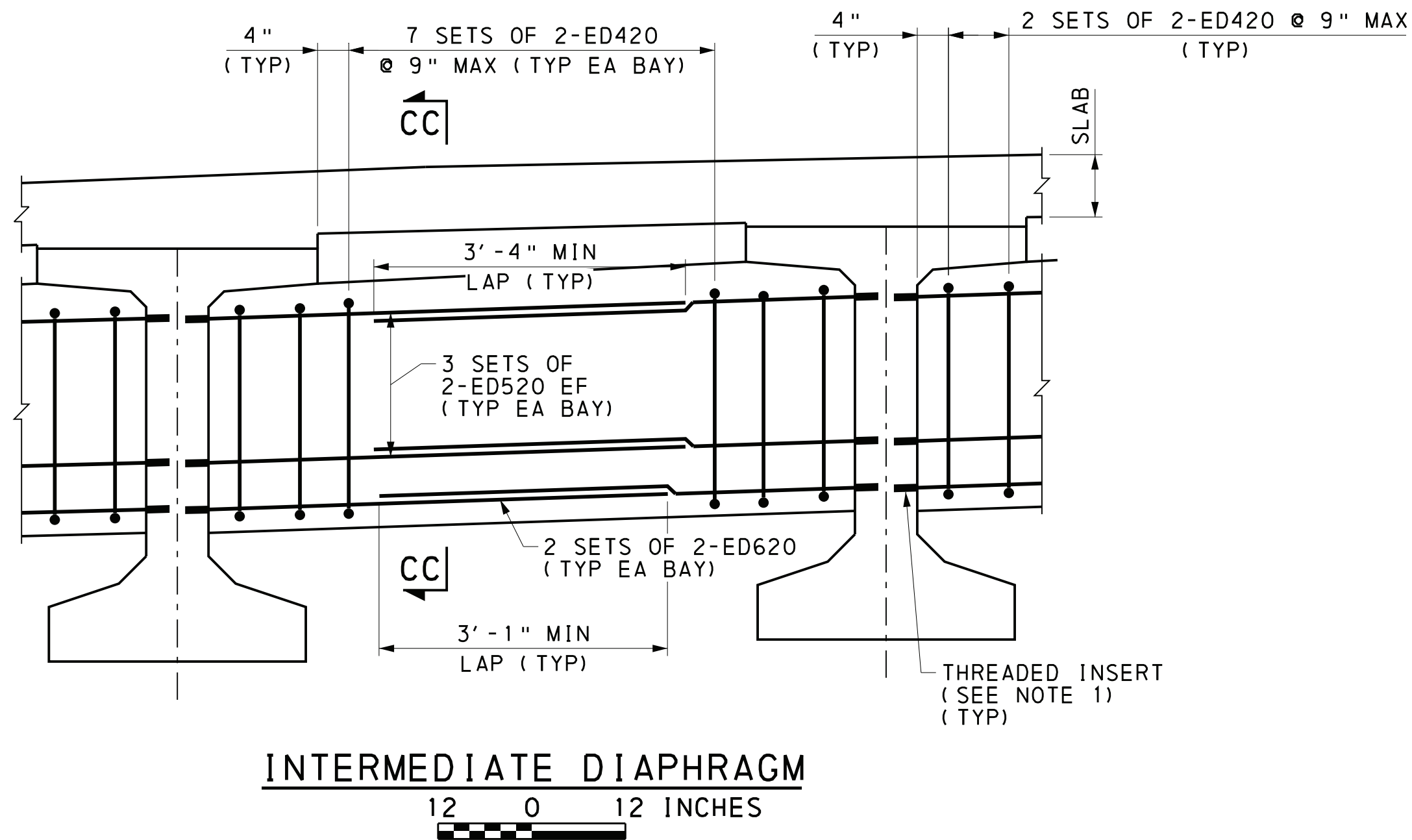
SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE DIAPHRAGM DETAILS 2	
RECOMMENDED 12-6-2022	SHEET 55 OF 93
	S-39451

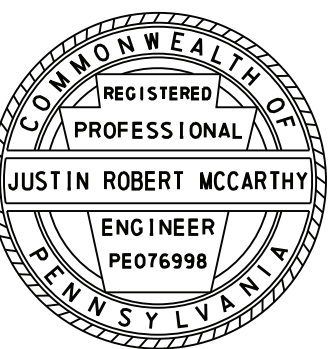


- NOTES:**
- 1. USE ONE SIZE SMALLER INSERT FOR DEFORMED BARS. THE MINIMUM LENGTH OF THE INSERT IS 3". INSERTS TO BE GALVANIZED OR COMPLETELY ZINC-ELECTROPLATED.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
DIAPHRAGM DETAILS 3

RECOMMENDED 12-6-2022
SHEET 56 OF 93
S-39451

REFERENCES:	SHEETS:
GENERAL PLAN	1
GENERAL NOTES	4 & 5
FRAMING PLAN	43
BEAM DETAILS	44 - 46
SLAB PLANS	48 & 49
DIAPHRAGM DETAILS	54 - 56

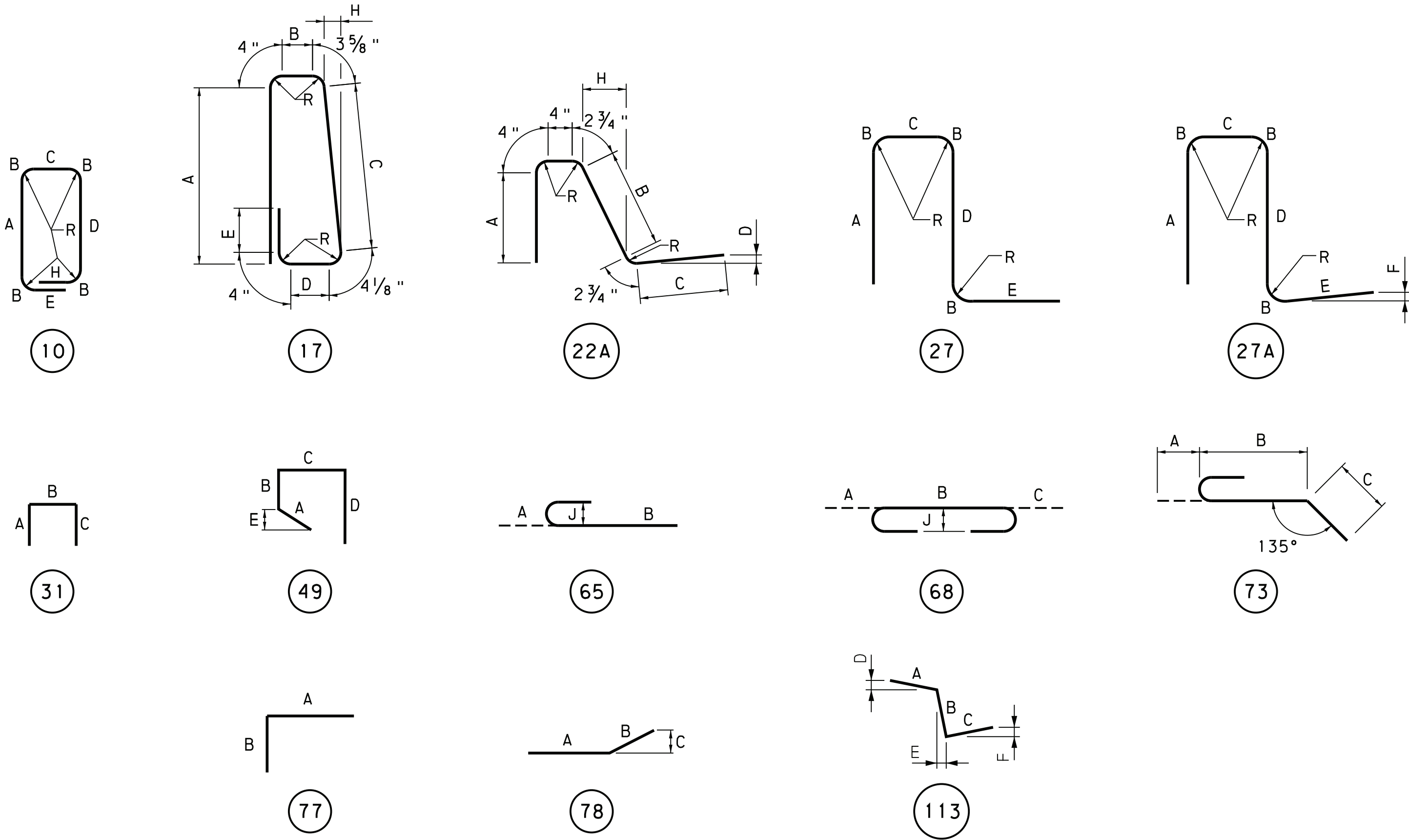
6/23/2022 63016-s-br01-d1a03.dgn

MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
ABUTMENT DIAPHRAGMS										
ED400	4	240	4'-5"	31	1'-5"	1'-7"	1'-5"			
ED401	4	84	4'-4"	77	2'-4"	2'-0"				
ED402	4	84	4'-3"	78	3'-3"	1'-0"	8 1/2"			
ED403	4	16	5'-9"	31	2'-1"	1'-7"	2'-1"			
ED404	4	16	6'-7"	31	2'-6"	1'-7"	2'-6"			
ED500	5	72	5'-5"	STR						THREAD ONE END 3"
ED501	5	6	50'-0"	STR						
ED502	5	16	2'-2"	STR						THREAD ONE END 3"
ED503	5	8	1'-5"	STR						
ED504	5	16	8"	STR						
ED600	6	84	5'-2"	73	8"	3'-6"	1'-0"			
ED601	6	72	5'-3"	STR						THREAD ONE END 3"
ED602	6	12	6'-7"	STR						
ED603	6	2	50'-0"	STR						
CONTINUITY DIAPHRAGMS										
ED410	4	168	9'-5"	31	3'-7"	2'-3"	3'-7"			
ED411	4	104	5'-9"	31	1'-9"	2'-3"	1'-9"			
ED412	4	16	2'-3"	STR						
ED510	5	192	5'-5"	STR						THREAD ONE END 3"
ED511	5	32	2'-2"	77	1'-2"	1'-0"				THREAD "A" 3"
ED512	5	8	3'-0"	STR						
ED513	5	48	4'-6"	STR						
ED514	5	24	3'-11"	STR						
INTERMEDIATE DIAPHRAGMS										
ED420	4	396	3'-11"	31	1'-8"	7"	1'-8"			
ED520	5	216	5'-5"	STR						THREAD ONE END 3"
ED620	6	72	5'-3"	STR						THREAD ONE END 3"
DECK										
ES301	3	679	6'-1"	STR						BEND IN FIELD
ES401	4	317	7'-8"	27	2'-6 1/2"	4"	3"	2'-4"	1'-6"	R = 2"
ES402	4	314	6'-3 1/2"	22A	1'-9"	1'-11"	1'-6"	3/4"		H = 10 1/8", R = 2"
ES403	4	316	6'-4"	27A	1'-10 1/2"	4"	3"	1'-8"	1'-6"	F = 1/4", R = 2"
ES404	4	114	39'-0"	STR						
ES405	4	114	25'-5"	STR						
ES406	4	114	39'-10"	STR						
ES407	4	6	6'-0"	49	1'-3"	1'-0"	1'-3"	2'-6"	10 5/8"	
ES408	4	6	5'-8"	49	1'-1"	1'-0"	1'-1"	2'-6"	9 1/4"	
ES409	4	24	26'-3"	STR						
ES410	4	16	34'-9"	STR						
ES411	4	16	28'-3"	STR						
ES501	5	635	53'-5"	68	7"	52'-3"	7"			J = 5"
ES502	5	499	47'-11"	STR						
ES503	5	294	7'-1"	113	3'-0"	1'-0 3/4"	3'-0"	1/2"	1 5/8"	F = 1 1/2"
ES504	5	112	39'-3"	STR						
ES505	5	104	53'-6"	STR						
ES506	5	56	48'-4"	STR						
ES507	5	104	54'-8"	STR						
ES508	5	112	40'-1"	STR						
ES509	5	499	15'-0"	STR						
ES601	6	635	8'-2"	65	8"	7'-6"				J = 6"
ES602	6	635	23'-4"	65	8"	22-8"				J = 6"
ES603	6	10	52'-3"	STR						
ES604	6	12	4'-3"	STR						
ES605	6	12	1'-8"	STR						
ES606	6	499	16'-4"	STR						
ES801	8	114	59'-7"	STR						
ES802	8	112	59'-7"	STR						
EC401	4	72	38'-5"	STR						
EC402	4	633	7'-10"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"
EC403	4	314	8'-7"	17	3'-0 1/2"	3 3/8"	2'-10 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"
EC501	5	294	7'-4"	STR						
EC502	5	108	51'-9"	STR						
EC601	6	72	52'-5"	STR						

6/23/2022 6:30:16 a.m. br01-bar04.dgn

NOTES:

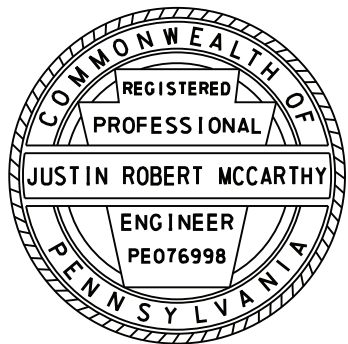
1. "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
2. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
3. FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
4. FIGURES IN CIRCLE REPRESENT BAR TYPES.
5. "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. RADIUS, "R" IS TO THE INSIDE OF THE BAR.
7. REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

HNTB

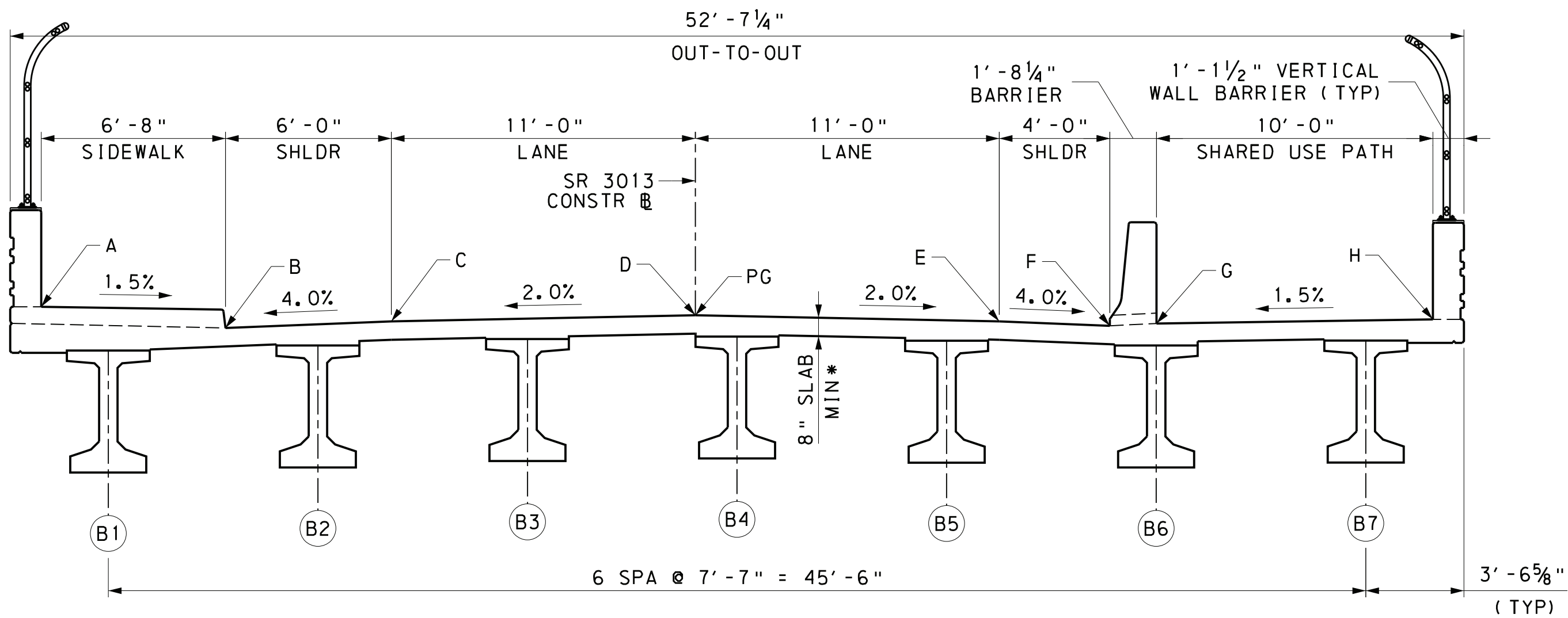


PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SUPERSTRUCTURE REBAR SCHEDULE

RECOMMENDED	12-6-2022	SHEET 57 OF 93
		S-39451



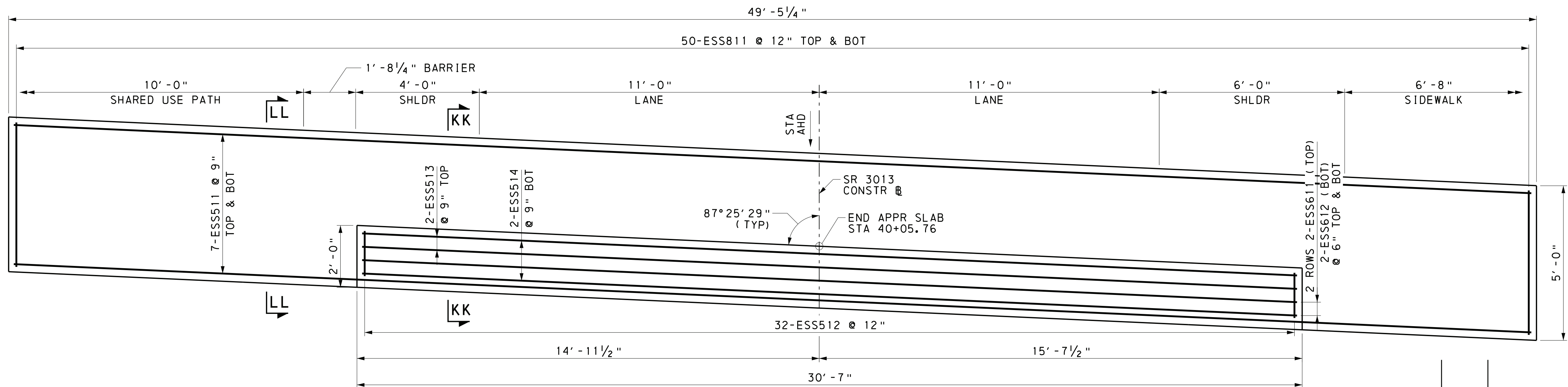
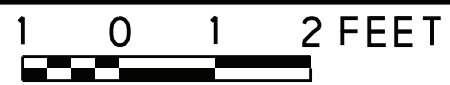
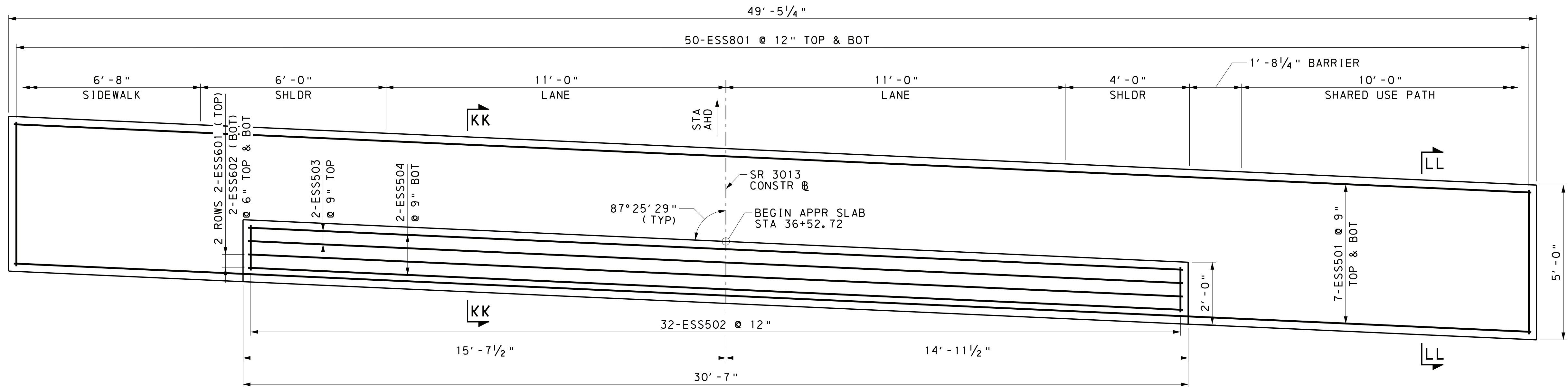
DECK ELEVATIONS DIAGRAM
2 0 2 4 FEET

* INCLUDES 1/2" INTEGRAL WEARING SURFACE

FINISHED DECK ELEVATIONS AT TENTH POINTS ON C BEAM															
LOCATION		BEAM B1		BEAM B2		BEAM B3		BEAM B4		BEAM B5		BEAM B6		BEAM B7	
		STATION	ELEV	STATION	ELEV	STATION	ELEV	STATION	ELEV	STATION	ELEV	STATION	ELEV	STATION	ELEV
SPAN 1	C BRG ABUT 1	36+84.20	395.56	36+83.85	394.95	36+83.51	395.13	36+83.17	395.21	36+82.83	395.03	36+82.49	394.90	36+82.15	394.99
	0.1L	36+93.62	396.10	36+93.28	395.49	36+92.94	395.67	36+92.60	395.74	36+92.26	395.57	36+91.91	395.44	36+91.57	395.53
	0.2L	37+03.05	396.64	37+02.70	396.02	37+02.36	396.21	37+02.02	396.28	37+01.68	396.11	37+01.34	395.97	37+01.00	396.07
	0.3L	37+12.47	397.17	37+12.13	396.56	37+11.79	396.74	37+11.45	396.82	37+11.11	396.65	37+10.76	396.51	37+10.42	396.61
	0.4L	37+21.90	397.71	37+21.55	397.10	37+21.21	397.28	37+20.87	397.35	37+20.53	397.18	37+20.19	397.05	37+19.85	397.14
	0.5L	37+31.32	398.25	37+30.98	397.63	37+30.64	397.82	37+30.30	397.89	37+29.96	397.72	37+29.61	397.58	37+29.27	397.68
	0.6L	37+40.75	398.79	37+40.40	398.17	37+40.06	398.36	37+39.72	398.43	37+39.38	398.26	37+39.04	398.12	37+38.70	398.22
	0.7L	37+50.17	399.32	37+49.83	398.71	37+49.49	398.89	37+49.15	398.96	37+48.81	398.79	37+48.46	398.66	37+48.12	398.75
	0.8L	37+59.60	399.86	37+59.25	399.24	37+58.91	399.43	37+58.57	399.50	37+58.23	399.33	37+57.89	399.20	37+57.55	399.29
	0.9L	37+69.02	400.40	37+68.68	399.78	37+68.34	399.97	37+68.00	400.04	37+67.66	399.87	37+67.31	399.73	37+66.97	399.83
SPAN 2	C BRG PIER 1	37+78.45	400.93	37+78.10	400.32	37+77.76	400.50	37+77.42	400.58	37+77.08	400.40	37+76.74	400.27	37+76.40	400.36
	C BRG PIER 1	37+79.95	401.02	37+79.60	400.40	37+79.26	400.59	37+78.92	400.66	37+78.58	400.49	37+78.24	400.36	37+77.90	400.45
	0.1L	37+89.80	401.58	37+89.45	400.97	37+89.11	401.15	37+88.77	401.22	37+88.43	401.05	37+88.09	400.92	37+87.75	401.01
	0.2L	37+99.65	402.14	37+99.30	401.53	37+98.96	401.71	37+98.62	401.78	37+98.28	401.61	37+97.94	401.48	37+97.60	401.57
	0.3L	38+09.50	402.67	38+09.15	402.06	38+08.81	402.24	38+08.47	402.32	38+08.13	402.15	38+07.79	402.02	38+07.45	402.11
	0.4L	38+19.35	403.14	38+19.00	402.53	38+18.66	402.72	38+18.32	402.80	38+17.98	402.63	38+17.64	402.50	38+17.30	402.60
	0.5L	38+29.20	403.57	38+28.85	402.96	38+28.51	403.15	38+28.17	403.23	38+27.83	403.06	38+27.49	402.93	38+27.15	403.03
	0.6L	38+39.05	403.94	38+38.70	403.33	38+38.36	403.52	38+38.02	403.60	38+37.68	403.44	38+37.34	403.31	38+37.00	403.41
	0.7L	38+48.90	404.25	38+48.55	403.65	38+48.21	403.84	38+47.87	403.92	38+47.53	403.76	38+47.19	403.64	38+46.85	403.74
	0.8L	38+58.75	404.52	38+58.40	403.91	38+58.06	404.11	38+57.72	404.19	38+57.38	404.03	38+57.04	403.91	38+56.70	404.01
SPAN 3	0.9L	38+68.60	404.73	38+68.25	404.13	38+67.91	404.32	38+67.57	404.41	38+67.23	404.25	38+66.89	404.13	38+66.55	404.24
	C BRG PIER 2	38+78.45	404.88	38+78.10	404.29	38+77.76	404.49	38+77.42	404.57	38+77.08	404.42	38+76.74	404.30	38+76.40	404.40
	C BRG PIER 2	38+79.95	404.90	38+79.60	404.30	38+79.26	404.51	38+78.92	404.59	38+78.58	404.44	38+78.24	404.32	38+77.90	404.43
	0.1L	38+89.57	405.00	38+89.23	404.40	38+88.89	404.60	38+88.55	404.69	38+88.21	404.54	38+87.86	404.42	38+87.52	404.53
	0.2L	38+99.20	405.04	38+98.85	404.45	38+98.51	404.65	38+98.17	404.74	38+97.83	404.59	38+97.49	404.47	38+97.15	404.59
	0.3L	39+08.82	405.04	39+08.48	404.44	39+08.14	404.65	39+07.80	404.74	39+07.46	404.59	39+07.11	404.48	39+06.77	404.59
	0.4L	39+18.45	404.98	39+18.10	404.39	39+17.76	404.60	39+17.42	404.69	39+17.08	404.54	39+16.74	404.43	39+16.40	404.55
	0.5L	39+28.07	404.88	39+27.73	404.28	39+27.39	404.49	39+27.05	404.59	39+26.71	404.44	39+26.36	404.33	39+26.02	404.45
	0.6L	39+37.70	404.72	39+37.35	404.13	39+37.01	404.34	39+36.67	404.44	39+36.33	404.29	39+35.99	404.18	39+35.65	404.30
	0.7L	39+47.32	404.51	39+46.98	403.92	39+46.64	404.14	39+46.30	404.24	39+45.96	404.09	39+45.61	403.98	39+45.27	404.11
SPAN 4	0.8L	39+56.95	404.25	39+56.60	403.67	39+56.26	403.88	39+55.92	403.98	39+55.58	403.84	39+55.24	403.73	39+54.90	403.86
	0.9L	39+66.57	403.94	39+66.23	403.36	39+65.89	403.58	39+65.55	403.68	39+65.21	403.54	39+64.86	403.43	39+64.52	403.56
	C BRG ABUT 2	39+76.20	403.58	39+75.85	403.00	39+75.51	403.22	39+75.17	403.32	39+74.83	403.19	39+74.49	403.08	39+74.15	403.21

FINISHED DECK ELEVATIONS AT BREAK POINTS								
STATION	A	B	C	D (PGL)	E	F	G	H
36+51.52	- - -	- - -	- - -	- - -	- - -	- - -	- - -	393.29
36+51.97	- - -	- - -	- - -	- - -	- - -	- - -	393.16	393.31
36+52.04	- - -	- - -	- - -	- - -	- - -	393.08	393.17	393.32
36+52.22	- - -	- - -	- - -	- - -	393.25	393.09	393.18	393.33
36+52.72	- - -	- - -	- - -	393.50	393.28	393.12	393.20	393.35
36+53.21	- - -	- - -	393.31	393.53	393.31	393.15	393.23	393.38
36+53.48	- - -	393.08	393.32	393.54	393.32	393.16	393.25	393.40
36+53.78	393.87	393.10	393.34	393.56	393.34	393.18	393.26	393.41
36+60.00	394.22	393.46	393.70	393.92	393.70	393.54	393.62	393.77
36+70.00	394.79	394.03	394.27	394.49	394.27	394.11	394.19	394.34
36+80.00	395.36	394.60	394.84	395.06	394.84	394.68	394.76	394.91
36+81.52	395.45	394.68	394.92	395.14	394.92	394.76	394.84	394.99
36+81.97	395.47	394.71	394.95	395.17	394.95	394.79	394.87	395.02
36+82.04	395.48	394.71	394.95	395.17	394.95	394.79	394.87	395.02
36+82.22	395.49	394.72	394.96	395.18	394.96	394.80	394.89	395.04
36+82.72	395.52	394.75	394.99	395.21	394.99	394.83	394.91	395.06
36+83.21	395.54	394.78	395.02	395.24	395.02	394.86	394.94	395.09
36+83.48	395.56	394.79	395.03	395.25	395.03	394.87	394.96	395.11
36+83.78	395.58	394.81	395.05	395.27	395.05	394.89	394.97	395.12
36+90.00	395.93	395.16	395.40	395.62	395.40	395.24	395.33	395.48
37+00.00	396.50	395.73	395.97	396.19	395.97	395.81	395.90	396.05
37+10.00	397.07	396.30	396.54	396.76	396.54	396.38	396.47	396.62
37+20.00	397.64	396.87	397.11	397.33	397.11	396.95	397.04	397.19
37+30.00	398.21	397.44	397.68	397.90	397.68	397.52	397.61	397.76
37+40.00	398.78	398.01	398.25	398.47	398.25	398.09	398.18	398.33
37+50.00	399.35	398.58	398.82	399.04	398.82	398.66	398.75	398.90
37+60.00	399.92	399.15	399.39	399.61	399.39	399.23	399.32	399.47
37+70.00	400.49	399.72	399.96	400.18	399.96	399.80	399.89	400.04
37+80.00	401.06	400.29	400.53	400.75	400.53	400.37	400.46	400.61
37+90.00	401.63	400.86	401.10	401.32	401.10	400.94	401.03	401.18
38+00.00	402.20	401.43	401.67	401.89	401.67	401.51	401.60	401.75
38+10.00	402.73	401.97	402.21	402.43	402.21	402.05	402.13	402.28
38+20.00	403.21	402.45	402.69	402.91	402.69	402.53	402.61	402.76
38+30.00	403.64	402.87	403.11	403.33	403.11	402.95	403.03	403.18

FINISHED DECK ELEVATIONS AT BREAK POINTS								
STATION	A	B	C	D (PGL)	E	F	G	H
38+40.00	404.01	403.24	403.48	403.70	403.48	403.32	403.40	403.55
38+50.00	404.32	403.56	403.80	404.02	403.80	403.64	403.72	403.87
38+60.00	404.58	403.82	404.06	404.28	404.06	403.90	403.98	404.13
38+70.00	404.79	404.02	404.26	404.48	404.26	404.10	404.19	404.34
38+80.00	404.94	404.18	404.42	404.64	404.42	404.26	404.34	404.49
38+90.00	405.04	404.27	404.51	404.73	404.51	404.35	404.44	404.59
39+00.00	405.08	404.32	404.56	404.78	404.56	404.40	404.48	404.63
39+10.00	405.07	404.31	404.55	404.77	404.55	404.39	404.47	404.62
39+20.00	405.00	404.24	404.48	404.70	404.48	404.32	404.40	404.55
39+30.00	404.88	404.12	404.36	404.58	404.36	404.20	404.28	404.43
39+40.00	404.71	403.94	404.18	404.40	404.18	404.02	404.11	404.26
39+50.00	404.48	403.71	403.95	404.17	403.95	403.79	403.88	404.03
39+60.00	404.20	403.43	403.67	403.89	403.67	403.51	403.59	403.74
39+70.00	403.86	403.09	403.33	403.55	403.33	403.17	403.25	403.40
39+74.56	403.68	402.92	403.16	403.38	403.16	403.00	403.08	403.23
39+75.01	403.67	402.90	403.14	403.36	403.14	402.98	403.06	403.21
39+75.09	403.66	402.90	403.14	403.36	403.14	402.98	403.06	403.21
39+75.27	403.66	402.89	403.13	403.35	403.13	402.97	403.05	403.20
39+75.76	403.64	402.87	403.11	403.33	403.11	402.95	403.03	403.18
39+76.26	403.62	402.85	403.09	403.31	403.09	402.93	403.01	403.16
39+76.53	403.61	402.84	403.08	403.30	403.08	402.92	403.00	403.15
39+76.83	403.59	402.83	403.07	403.29	403.07	402.91	402.99	403.14
39+80.00	403.46	402.70	402.94	403.16	402.94	402.78	402.86	403.01
39+90.00	403.02	402.25	402.49	402.71	402.49	402.33	402.41	402.56
40+00.00	402.51	401.75	401.99	402.21	401.99	401.83	401.91	402.06
40+04.56	402.28	401.51	401.75	401.97	401.75	401.59	401.67	401.82
40+05.01	402.25	401.49	401.73	401.95	401.73	401.57	401.65	- - -
40+05.09	402.25	401.48	401.72	401.94	401.72	401.56	- - -	- - -
40+05.27	402.24	401.47	401.71	401.93	401.71	- - -	- - -	- - -
40+05.76	402.21	401.45	401.69	401.91	- - -	- - -	- - -	- - -
40+06.26	402.19	401.42	401.66	- - -	- - -	- - -	- - -	- - -
40+06.53	402.17	401.41	- - -	- - -	- - -	- - -	- - -	- - -
40+06.83	402.16	- - -	- - -	- - -	- - -	- - -	- - -	- - -



NOTES:

- APPROACH SLABS AND MOMENT SLABS NOT SHOWN FOR CLARITY.
- REFER TO SHEET 63 FOR SECTIONS KK-KK & LL-LL.

REFERENCES:

- GENERAL PLAN
- MOMENT SLAB GENERAL PLANS
- GENERAL NOTES
- APPROACH SLAB PLANS
- APPROACH SLAB SECTIONS
- APPROACH SLAB DETAILS

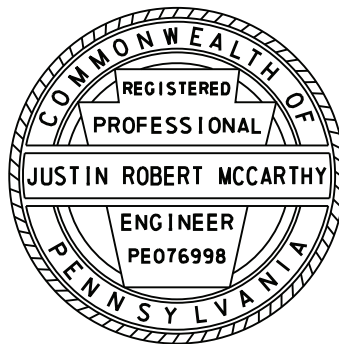
SHEETS:

- 1
- 2
- 4 & 5
- 60 & 61
- 62
- 63 - 65

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

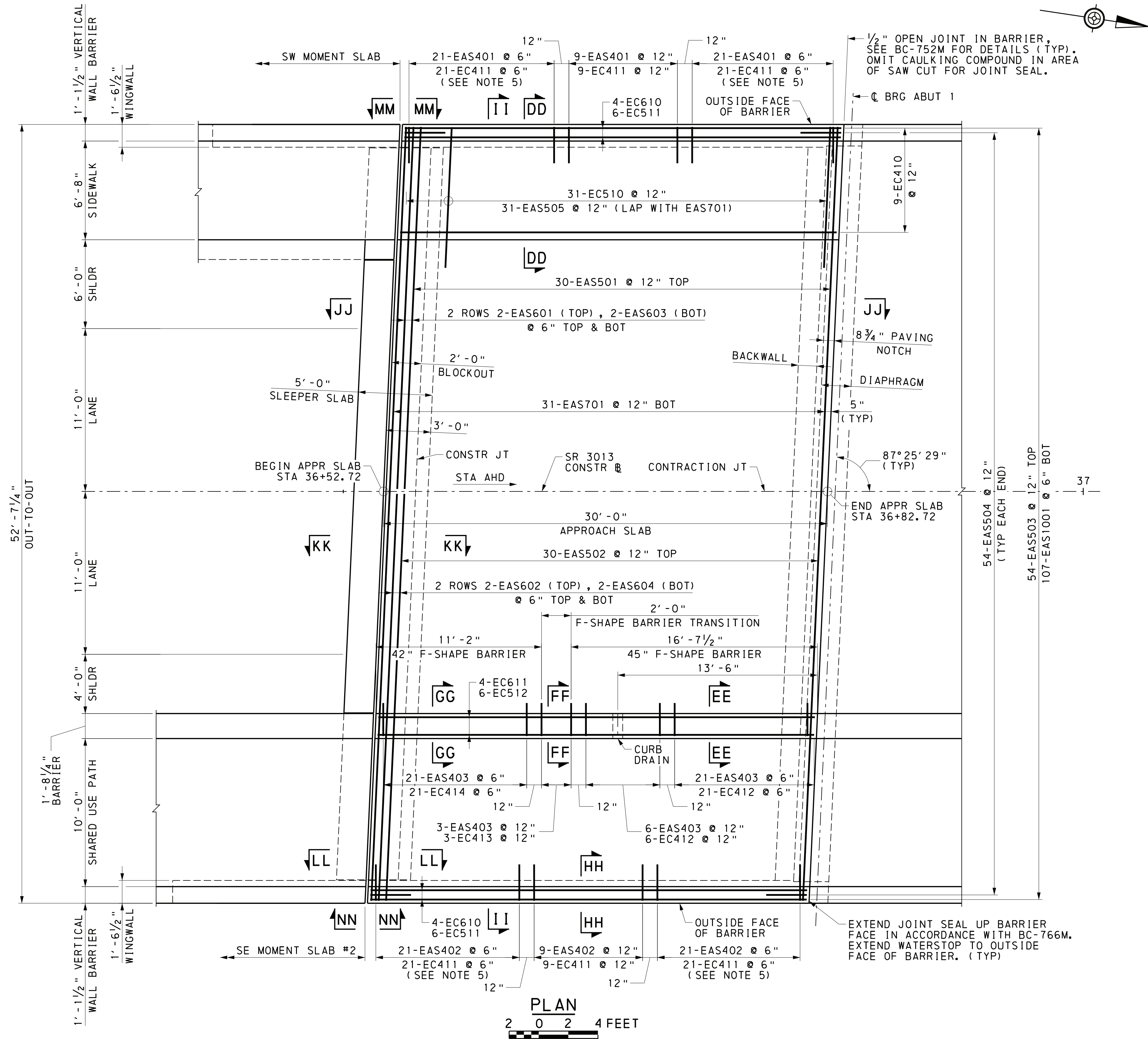
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
SLEEPER SLAB PLANS

RECOMMENDED 12-6-2022

SHEET 59 OF 93

S-39451



NOTES:

1. CONSTRUCT BRIDGE APPROACH SLAB AFTER THE BRIDGE DECK IS CONSTRUCTED.
2. PLACE CONCRETE IN ONE CONTINUOUS OPERATION, UNLESS OTHERWISE INDICATED OR DIRECTED.
3. TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED IN THE CONCRETE APPROACH SLAB OR SLEEPER SLAB, UNLESS OTHERWISE INDICATED.
4. BURN OFF, TO TOP OF BEAM, REINFORCEMENT AND/OR LIFTING DEVICES PROTRUDING INTO APPROACH SLAB.
5. PROVIDE ONE ADDITIONAL EC411 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EAS401/EAS402). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

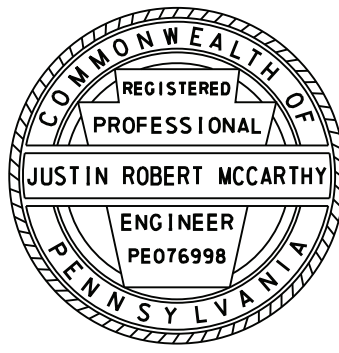
SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
NEAR APPROACH SLAB PLAN

RECOMMENDED 12-6-2022	SHEET 60 OF 93
	S-39451

HNTB



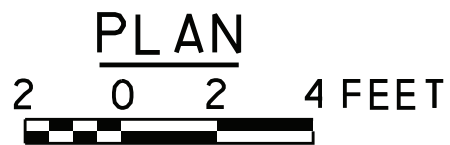
PREPARED BY:
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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

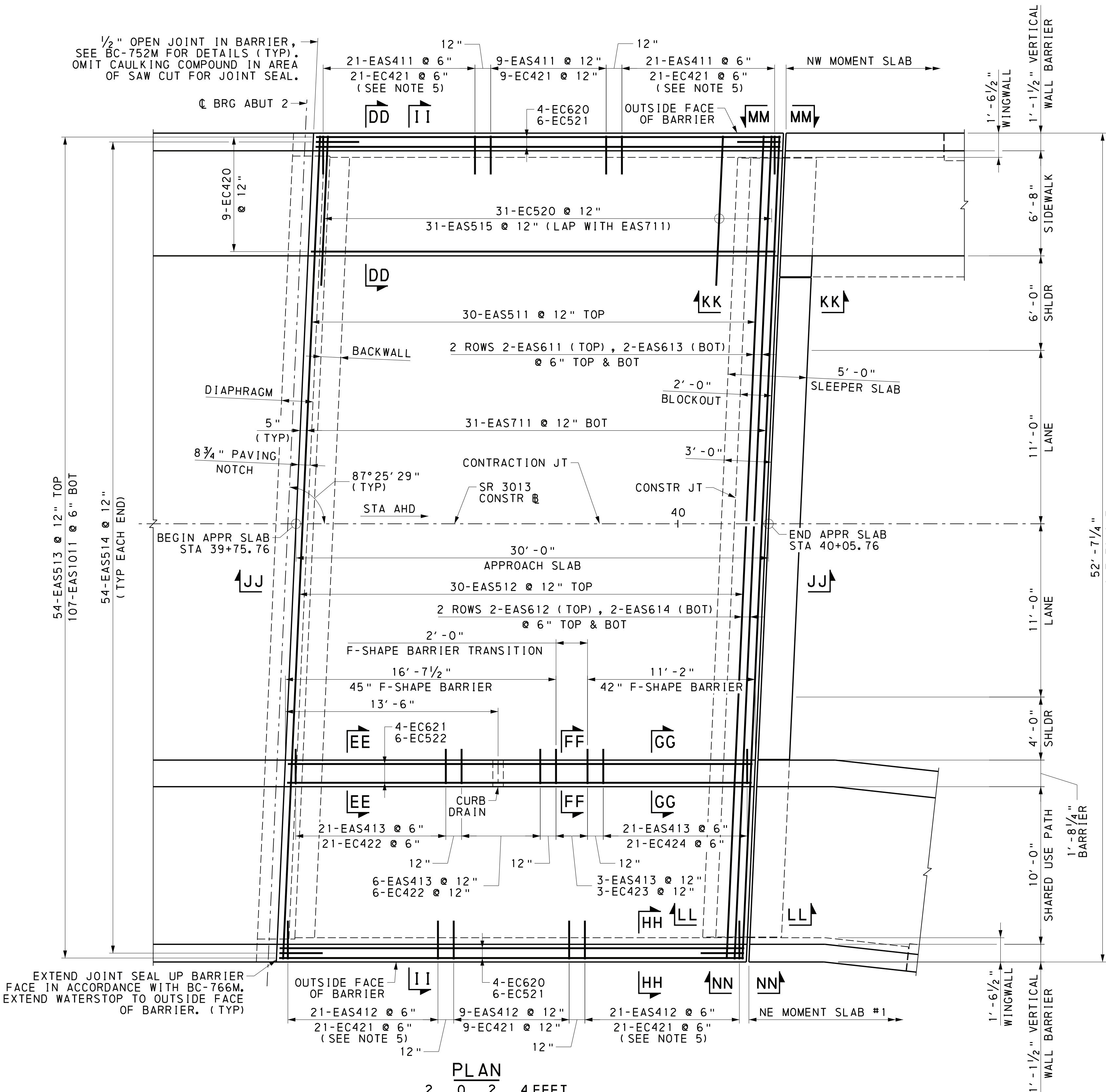
REFERENCES:

- GENERAL PLAN
- GENERAL NOTES
- DIAPHRAGM DETAILS
- SLEEPER SLAB PLANS
- APPROACH SLAB SECTIONS
- APPROACH SLAB DETAILS

SHEETS:

- 1
- 4 & 5
- 54 - 56
- 59
- 62
- 63 - 65





PLAN
2 0 2 4 FEET

REFERENCES:

- GENERAL PLAN
- GENERAL NOTES
- DIAPHRAGM DETAILS
- SLEEPER SLAB PLANS
- APPROACH SLAB SECTIONS
- APPROACH SLAB DETAILS

SHEETS:

- 1
- 4 & 5
- 54 - 56
- 59
- 62
- 63 - 65

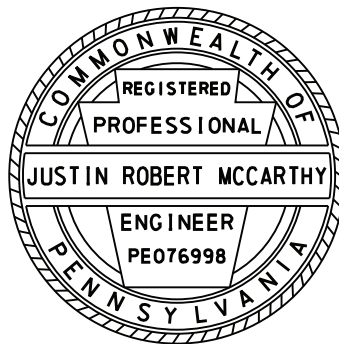
NOTES:

1. CONSTRUCT BRIDGE APPROACH SLAB AFTER THE BRIDGE DECK IS CONSTRUCTED.
2. PLACE CONCRETE IN ONE CONTINUOUS OPERATION, UNLESS OTHERWISE INDICATED OR DIRECTED.
3. TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED IN THE CONCRETE APPROACH SLAB OR SLEEPER SLAB, UNLESS OTHERWISE INDICATED.
4. BURN OFF, TO TOP OF BEAM, REINFORCEMENT AND/OR LIFTING DEVICES PROTRUDING INTO APPROACH SLAB.
5. PROVIDE ONE ADDITIONAL EC421 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EAS411/EAS412). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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PREPARED BY:
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HARRISBURG, PA 17110

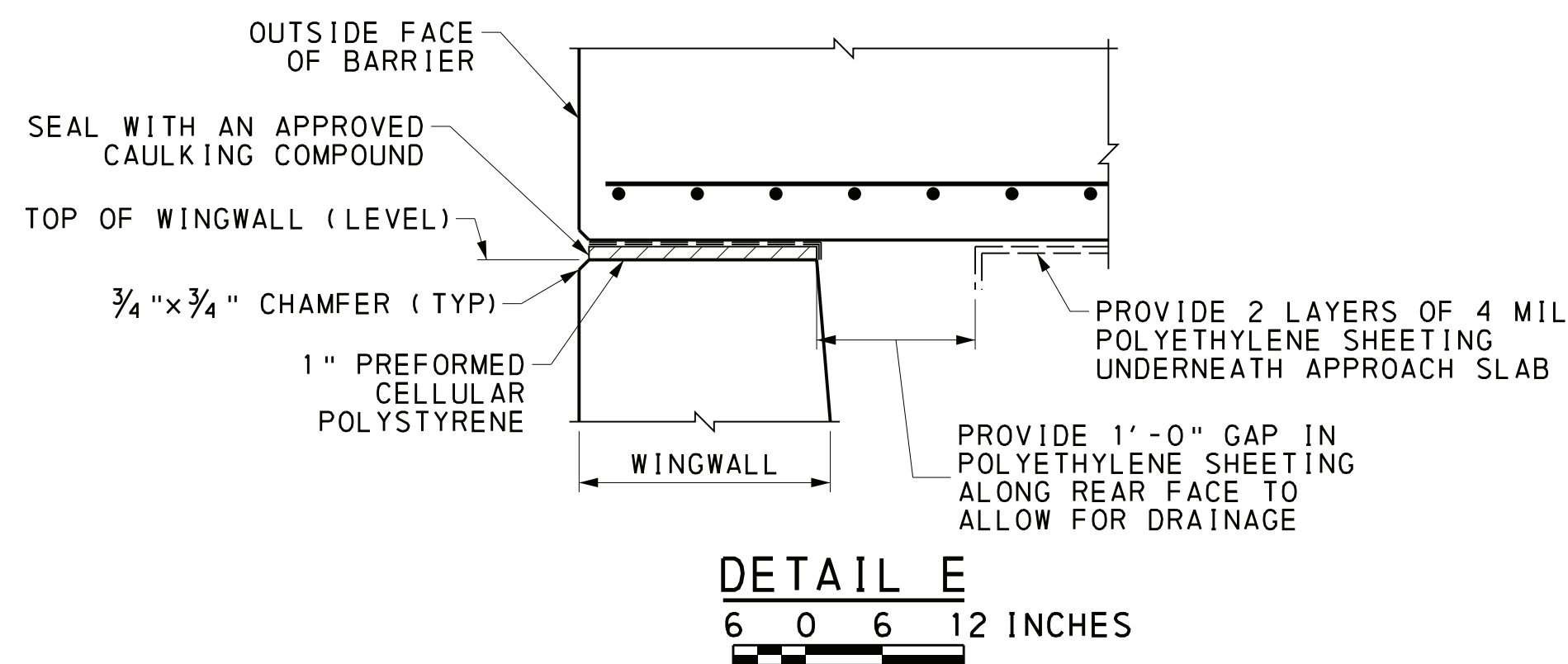
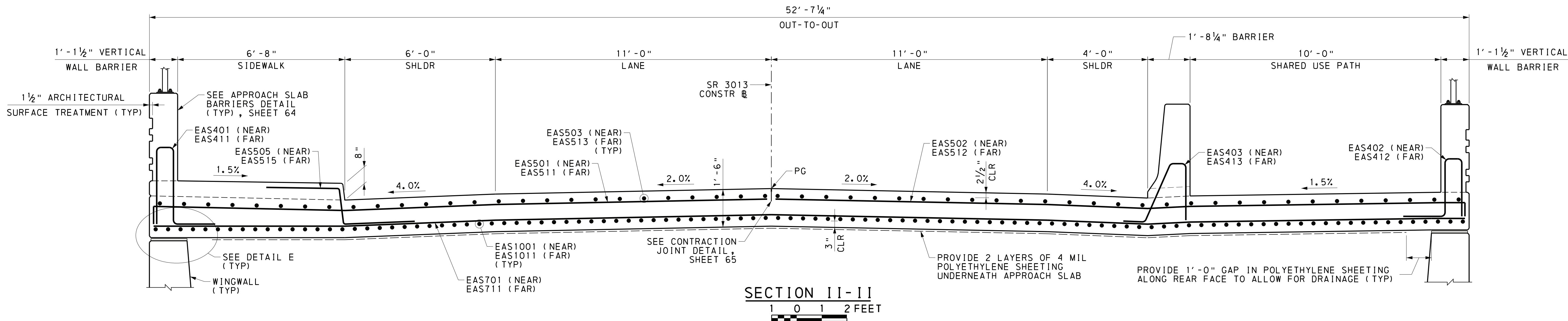
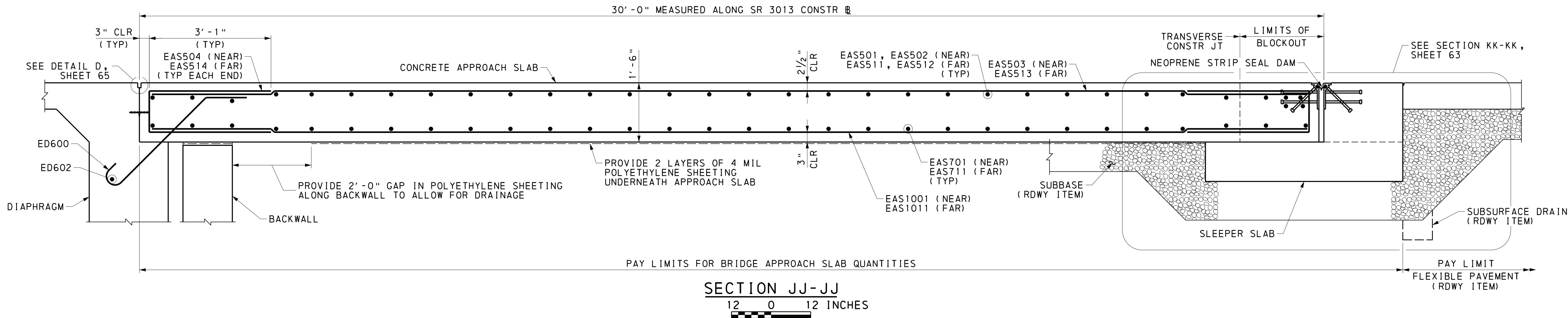
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
FAR APPROACH SLAB PLAN

RECOMMENDED 12-6-2022

SHEET 61 OF 93

S-39451



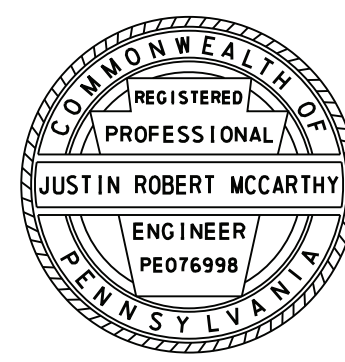
REFERENCES:

GENERAL PLAN
GENERAL NOTES
DIAPHRAGM DETAILS
SLEEPER SLAB PLANS
APPROACH SLAB PLANS
APPROACH SLAB DETAILS
BARRIER ARCHITECTURAL DETAILS

SHEETS:

1
4 & 5
54 - 56
59
60 & 61
63 - 65
81 & 82

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HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

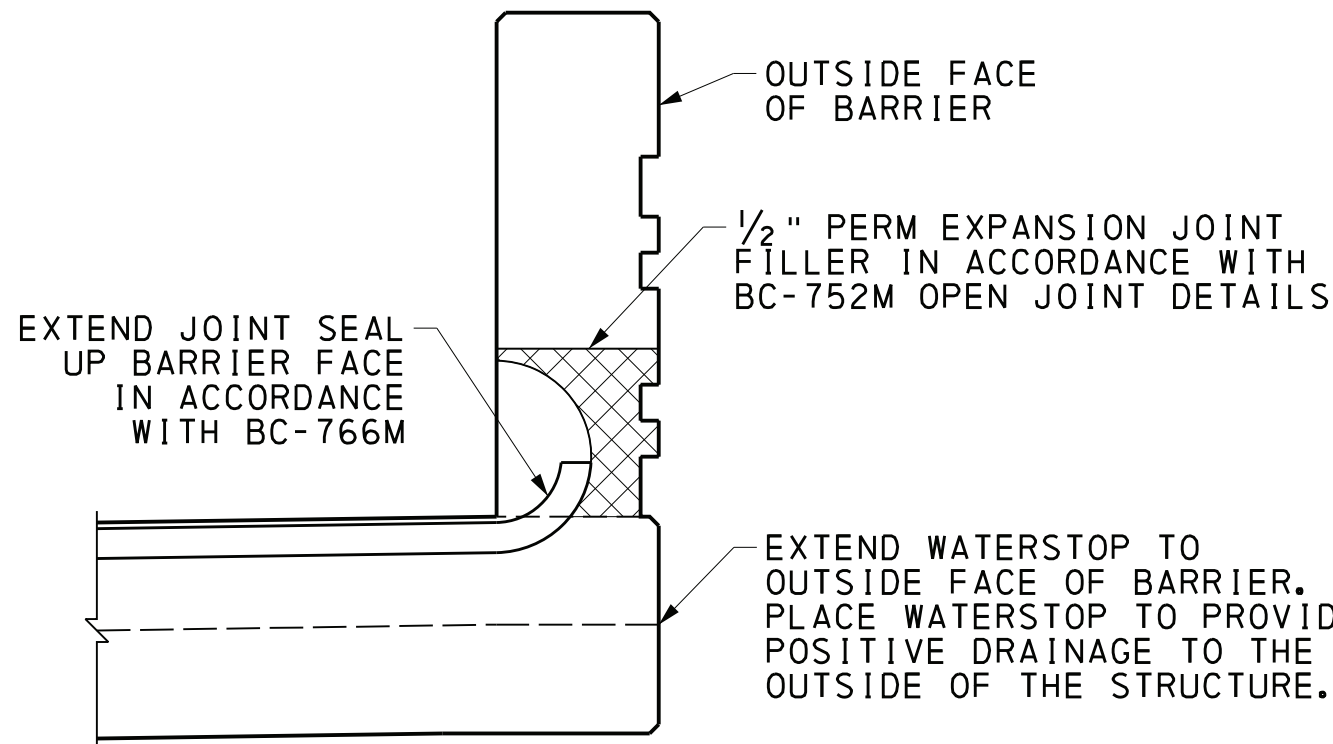
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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SR 3013 (29TH STREET) STA 37+78.24 OVER
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
APPROACH SLAB SECTIONS

RECOMMENDED 12-6-2022

SHEET 62 OF 93

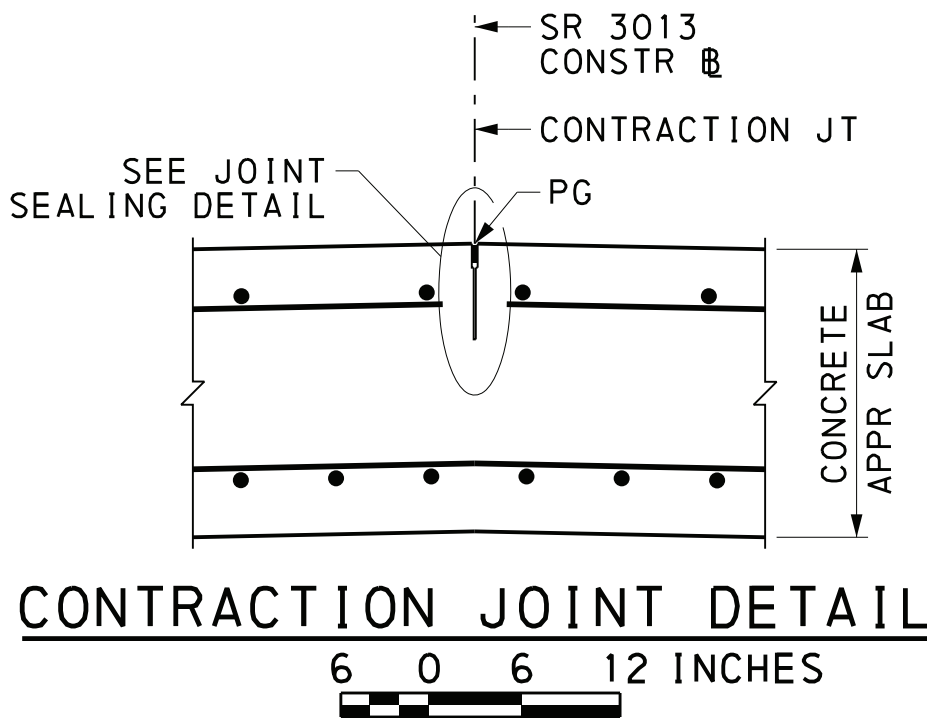
S-39451



JOINT SEAL AND WATERSTOP
TERMINATION DETAIL

12 0 12 INCHES

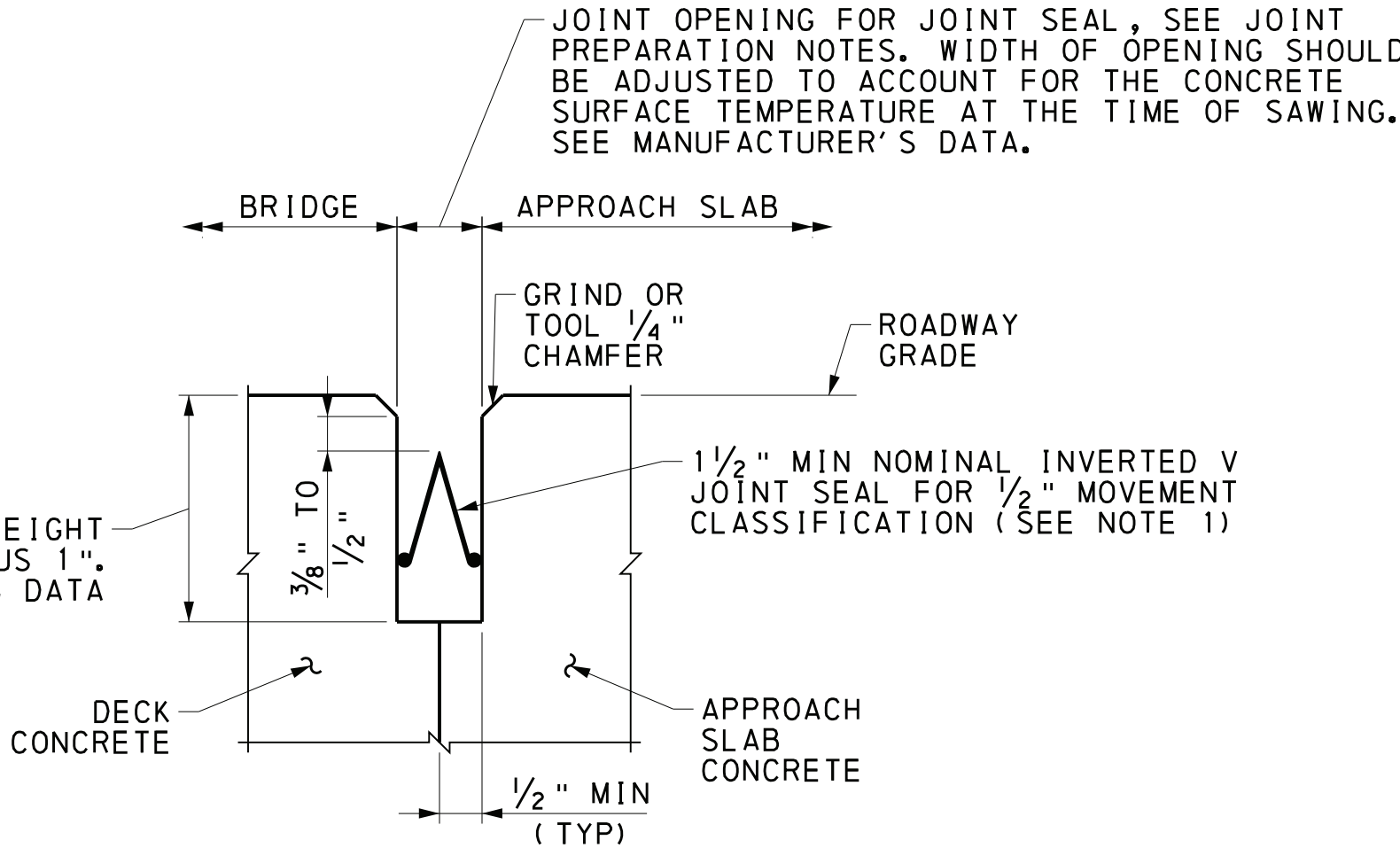
(RIGHT BARRIER SHOWN, LEFT BARRIER SIMILAR)



CONTRACTION JOINT DETAIL

6 0 6 12 INCHES

NOTE: TOP REINFORCEMENT NOT CONTINUOUS THRU JOINT.
BOTTOM REINFORCEMENT CONTINUOUS THRU JOINT.

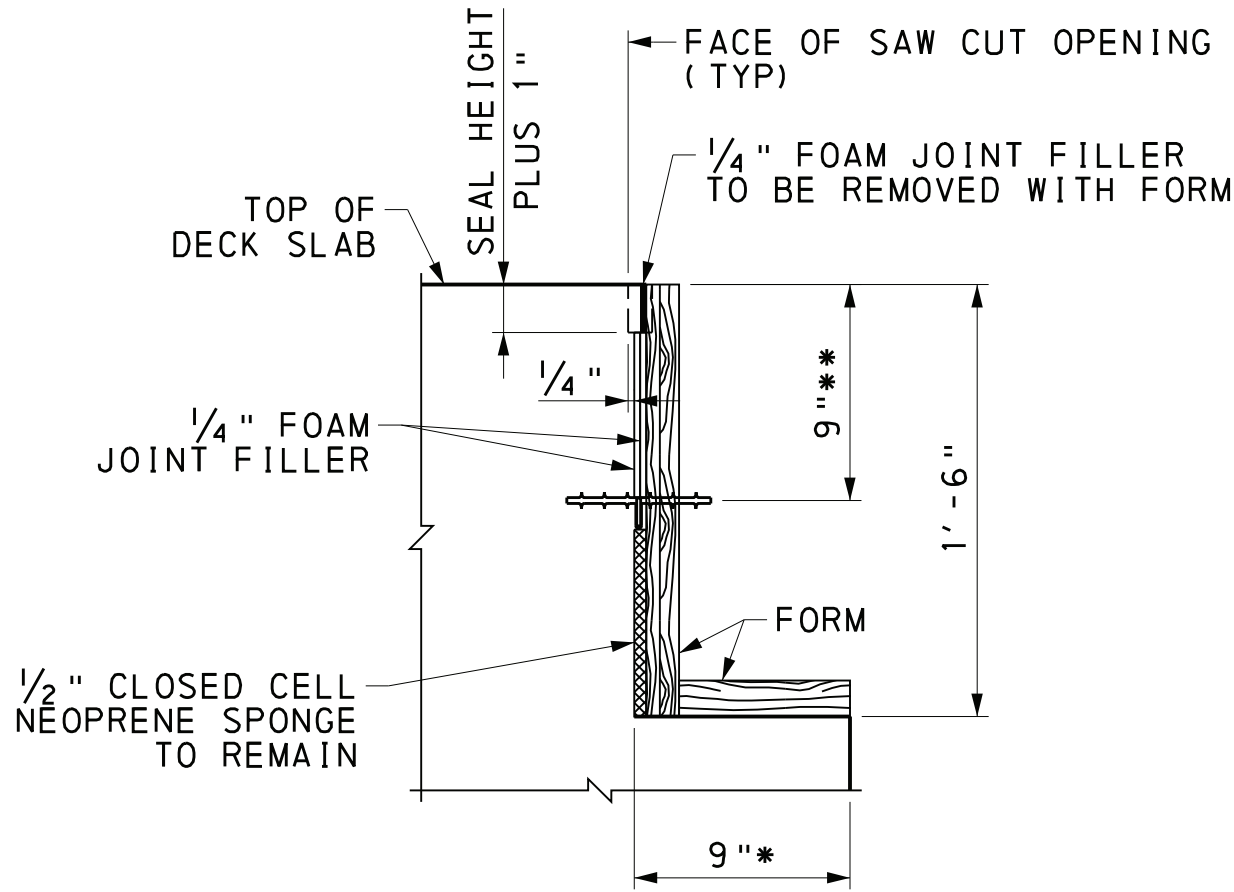


DETAIL D

NOT TO SCALE

JOINT PREPARATION NOTES:

1. THE JOINT OPENING IS TO BE FORMED BY A TWO-STAGE SAWING OPERATION WHERE ACCESSIBLE. WHERE ACCESSIBILITY IS LIMITED, THE JOINT OPENING SHALL BE FORMED. THE FIRST SAW CUT IS DESIGNED TO CONTROL CRACKING. THE SECOND SAW CUT IS MADE USING A DOUBLE-BLADED WATER-COOLED SAW CAPABLE OF HOLDING A TOLERANCE OF $\pm 1/16$ " TO CREATE THE PROPER OPENING FOR THE PREFORMED NEOPRENE COMPRESSION SEAL OR INVERTED V JOINT SEAL.
2. WATER BLAST OPENING IMMEDIATELY FOLLOWING SAW CUTTING OPERATION TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES.
3. THE DEPTH OF THE JOINT OPENING EQUALS THE HEIGHT OF THE SEAL PLUS 1". THE WIDTH OF THE SECOND SAW CUT SHOULD BE ADJUSTED TO ACCOUNT FOR THE CONCRETE SURFACE TEMPERATURE AT THE TIME OF SAWING, SEE MANUFACTURER'S PRODUCT INFORMATION.
4. BEFORE INSTALLING THE SEAL, ABRASIVE BLAST THE BONDING SURFACES TO THOROUGHLY CLEAN THE JOINT OPENING AND REMOVE FOREIGN MATERIAL, INCLUDING BROKEN CONCRETE. USE WATER AND OIL FREE COMPRESSED AIR TO BLOW OUT RESIDUE FROM THE SEAL GROOVE OPENING.
5. PREPARE BONDING SURFACES AND INSTALL JOINT SEAL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT EXCEED 3% ELONGATION OF THE SEAL, IF STRETCHING OCCURS.

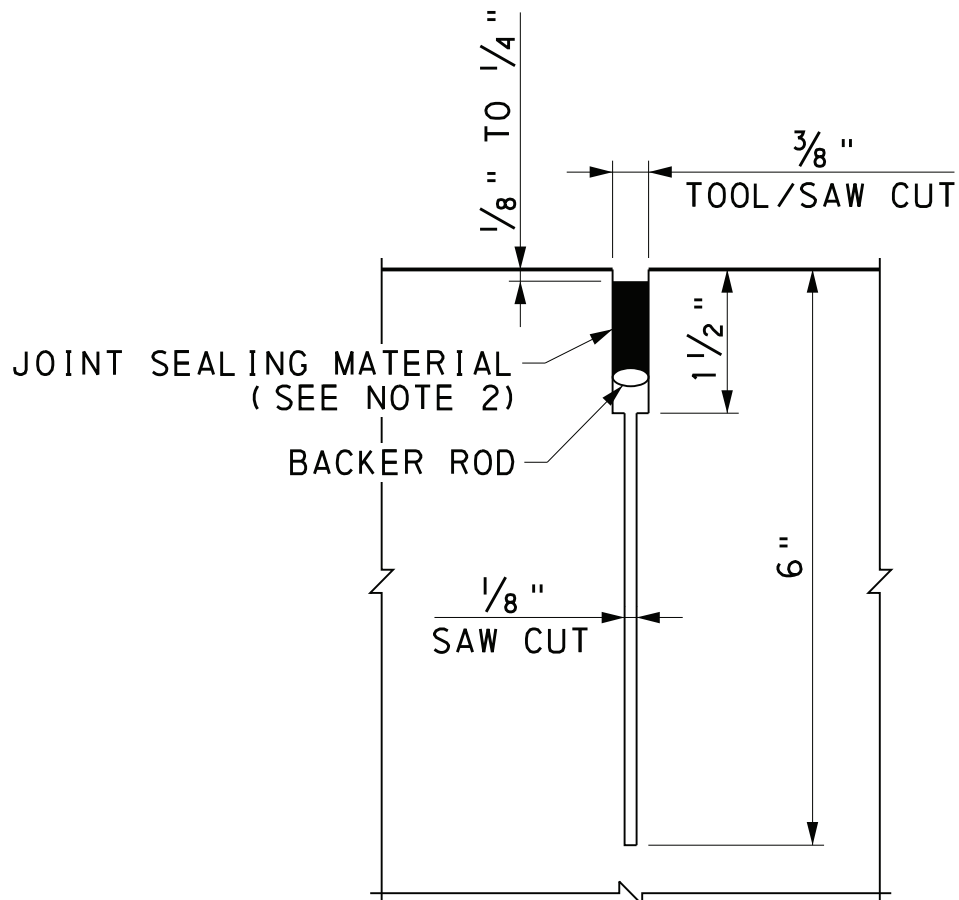


PAVING NOTCH FORMING DETAIL

NOT TO SCALE

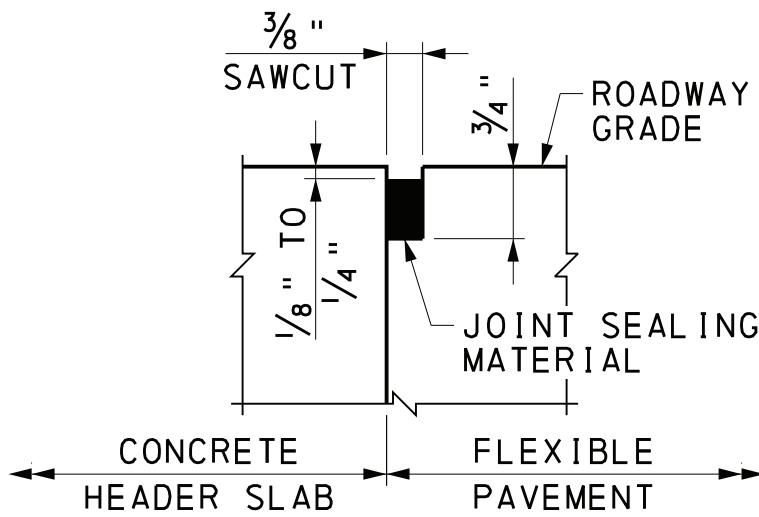
* MEASURED NORMAL TO ABUTMENT

** AN EXPANSION WATERSTOP (TYPE E1 OR E2), IN ACCORDANCE WITH BC-735M, MUST BE INSTALLED AT MID-DEPTH OF APPROACH SLAB. PLACE WATERSTOP TO PROVIDE POSITIVE DRAINAGE TO THE OUTSIDE OF THE STRUCTURE.



JOINT SEALING DETAIL

NOT TO SCALE



DETAIL C

NOT TO SCALE

REFERENCES:

- GENERAL PLAN
- GENERAL NOTES
- DIAPHRAGM DETAILS
- APPROACH SLAB PLANS
- APPROACH SLAB SECTIONS

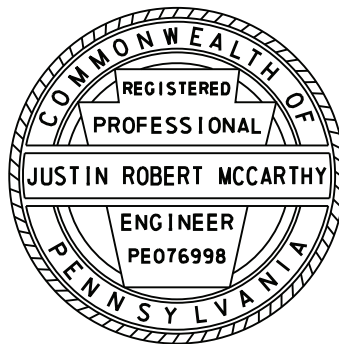
SHEETS:

- 1
- 4 & 5
- 54 - 56
- 60 & 61
- 62

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
APPROACH SLAB DETAILS 3

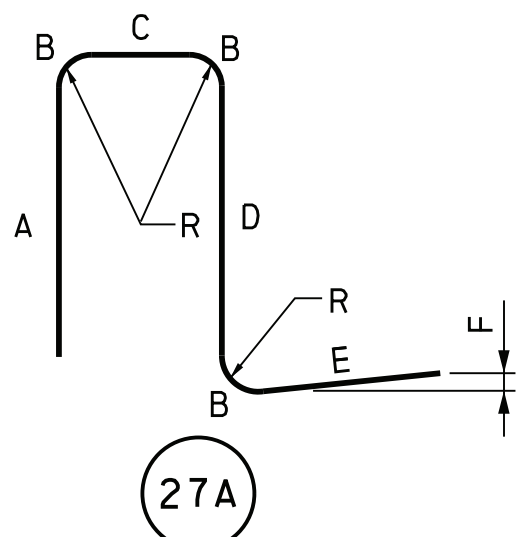
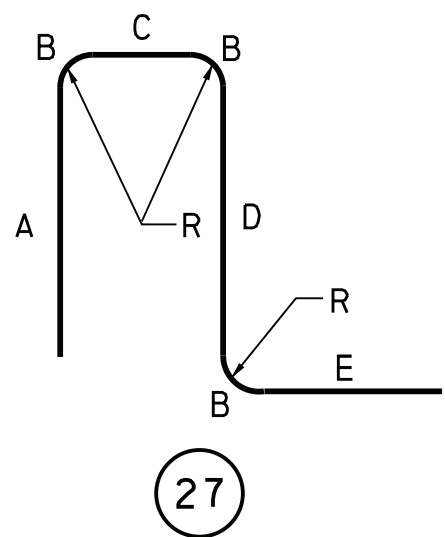
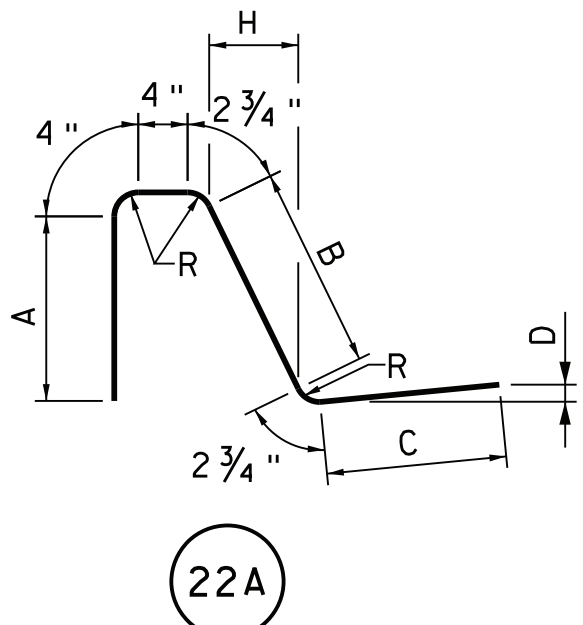
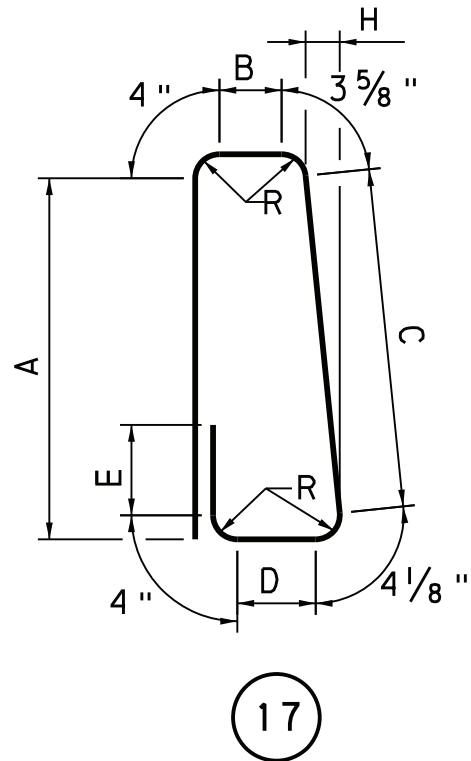
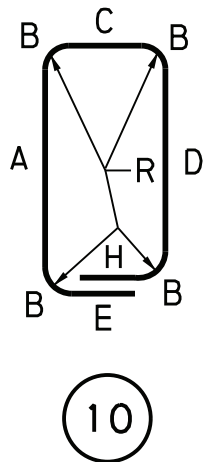
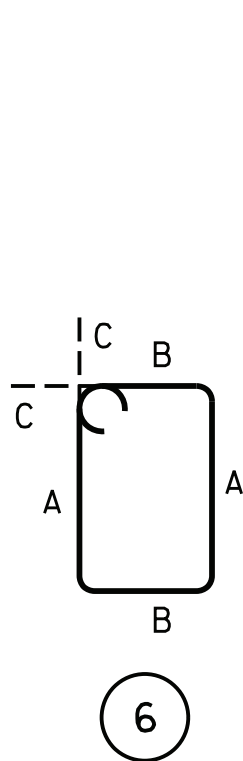
RECOMMENDED 12-6-2022

SHEET 65 OF 93

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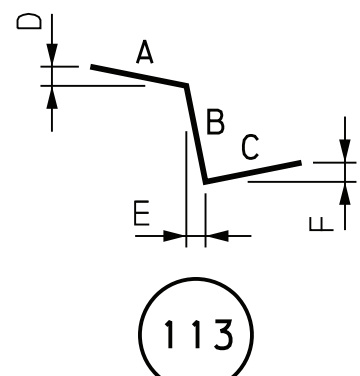
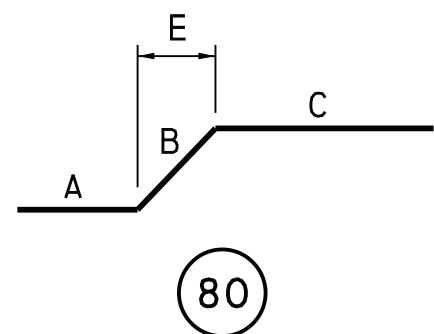
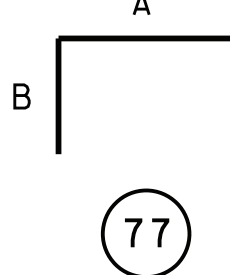
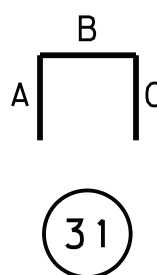
											BRIDGE 1
MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS	
NEAR APPROACH SLAB											
EAS401	4	53	9'-3"	27	3'-4"	4"	3"	3'-2"	1'-6"	R = 2"	
EAS402	4	53	7'-7"	27A	2'-6"	4"	3"	2'-4"	1'-6"	F = 1/4", R = 2"	
EAS403	4	51	7'-7 1/2"	22A	2'-5"	2'-7"	1'-6"	3/4"		H = 1'-1 5/8", R = 2"	
EAS501	5	30	25'-7"	77	24'-7"	1'-0"					
EAS502	5	30	28'-7"	77	27'-7"	1'-0"					
EAS503	5	54	29'-3"	STR							
EAS504	5	108	7'-2"	31	3'-1"	1'-0"	3'-1"				
EAS505	5	31	7'-7"	113	3'-0"	1'-7"	3'-0"	1/2"	2 3/8"	F = 1 1/2"	
EAS601	6	2	25'-7"	77	24'-7"	1'-0"					
EAS602	6	2	28'-7"	77	27'-7"	1'-0"					
EAS603	6	2	24'-7"	STR							
EAS604	6	2	27'-7"	STR							
EAS701	7	31	52'-4"	STR							
EAS1001	10	107	29'-3"	STR							
EC410	4	9	29'-3"	STR							
EC411	4	106	7'-10"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"	
EC412	4	27	8'-7"	17	3'-0 1/2"	3 3/8"	2'-10 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC413	4	3	8'-1" TO	17	2'-9 1/2" TO	3 3/8"	2'-7 3/4" TO	6 3/4"	5"	VARY A & C 3 EACH BY 1 1/2"	
			8'-7"		3'-0 1/2"		2'-10 3/4"			H = 3 3/8", R = 2"	
EC414	4	21	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC510	5	31	7'-4"	STR							
EC511	5	12	29'-3"	STR							
EC512	5	6	29'-3 1/4"	80	11'-0"	2'-0 1/4"	16'-3"		2'-0"		
EC610	6	8	29'-3"	STR							
EC611	6	4	29'-3 1/4"	80	11'-0"	2'-0 1/4"	16'-3"		2'-0"		
ESS501	5	14	49'-0"	STR							
ESS502	5	32	8'-0"	6	2'-0 1/2"	1'-6"	5 1/2"				
ESS503	5	2	32'-3"	31	1'-1"	30'-1"	1'-1"				
ESS504	5	2	30'-1"	STR							
ESS601	6	2	32'-3"	31	1'-1"	30'-1"	1'-1"				
ESS602	6	2	30'-1"	STR							
ESS801	8	100	4'-6"	STR							

											BRIDGE 1
MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS	
FAR APPROACH SLAB											
EAS411	4	53	9'-3"	27	3'-4"	4"	3"	3'-2"	1'-6"	R = 2"	
EAS412	4	53	7'-7"	27A	2'-6"	4"	3"	2'-4"	1'-6"	F = 1/4", R = 2"	
EAS413	4	51	7'-7 1/2"	22A	2'-5"	2'-7"	1'-6"	3/4"		H = 1'-1 5/8", R = 2"	
EAS511	5	30	25'-7"	77	24'-7"	1'-0"					
EAS512	5	30	28'-7"	77	27'-7"	1'-0"					
EAS513	5	54	29'-3"	STR							
EAS514	5	108	7'-2"	31	3'-1"	1'-0"	3'-1"				
EAS515	5	31	7'-7"	113	3'-0"	1'-7"	3'-0"	1/2"	2 3/8"	F = 1 1/2"	
EAS611	6	2	25'-7"	77	24'-7"	1'-0"					
EAS612	6	2	28'-7"	77	27'-7"	1'-0"					
EAS613	6	2	24'-7"	STR							
EAS614	6	2	27'-7"	STR							
EAS711	7	31	52'-4"	STR							
EAS1011	10	107	29'-3"	STR							
EC420	4	9	29'-3"	STR							
EC421	4	106	7'-10"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"	
EC422	4	27	8'-7"	17	3'-0 1/2"	3 3/8"	2'-10 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC423	4	3	8'-1" TO	17	2'-9 1/2" TO	3 3/8"	2'-7 3/4" TO	6 3/4"	5"	VARY A & C 3 EACH BY 1 1/2"	
			8'-7"		3'-0 1/2"		2'-10 3/4"			H = 3 3/8", R = 2"	
EC424	4	21	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC520	5	31	7'-4"	STR							
EC521	5	12	29'-3"	STR							
EC522	5	6	29'-3 1/4"	80	11'-0"	2'-0 1/4"	16'-3"		2'-0"		
EC620	6	8	29'-3"	STR							
EC621	6	4	29'-3 1/4"	80	11'-0"	2'-0 1/4"	16'-3"		2'-0"		
ESS511	5	14	49'-0"	STR							
ESS512	5	32	8'-0"	6	2'-0 1/2"	1'-6"	5 1/2"				
ESS513	5	2	32'-3"	31	1'-1"	30'-1"	1'-1"				
ESS514	5	2	30'-1"	STR							
ESS611	6	2	32'-3"	31	1'-1"	30'-1"	1'-1"				
ESS612	6	2	30'-1"	STR							
ESS811	8	100	4'-6"	STR							



NOTES:

- "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



REFERENCES:

GENERAL NOTES
APPROACH SLAB DRAWINGS

SHEETS:

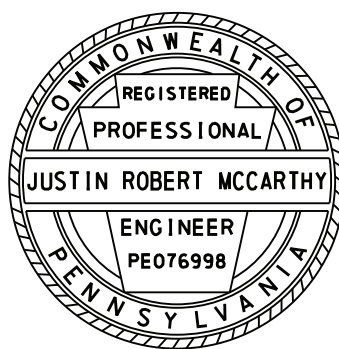
4 & 5
59 - 65

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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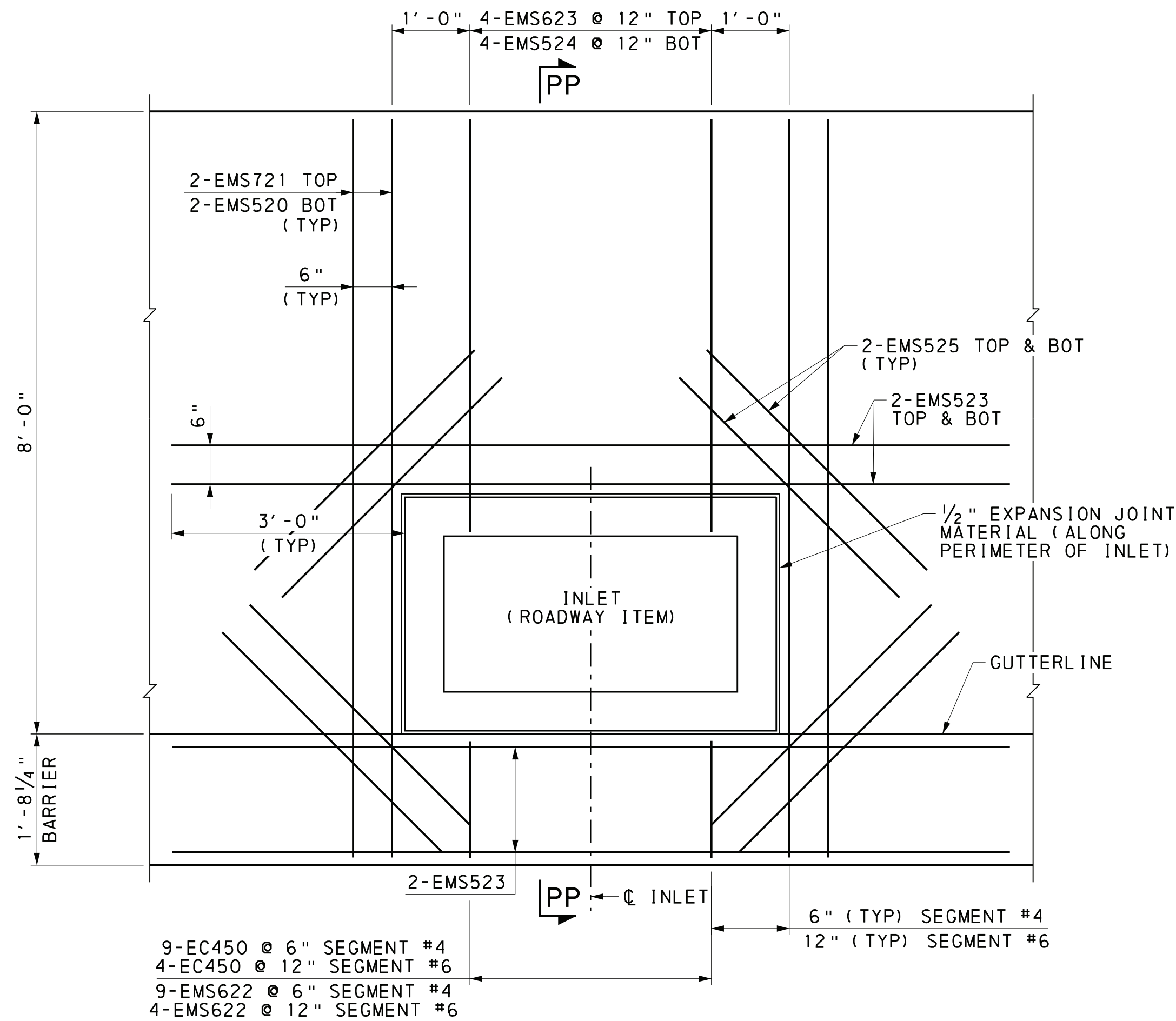
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HARRISBURG, PA 17110

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
APPROACH SLAB REBAR SCHEDULE

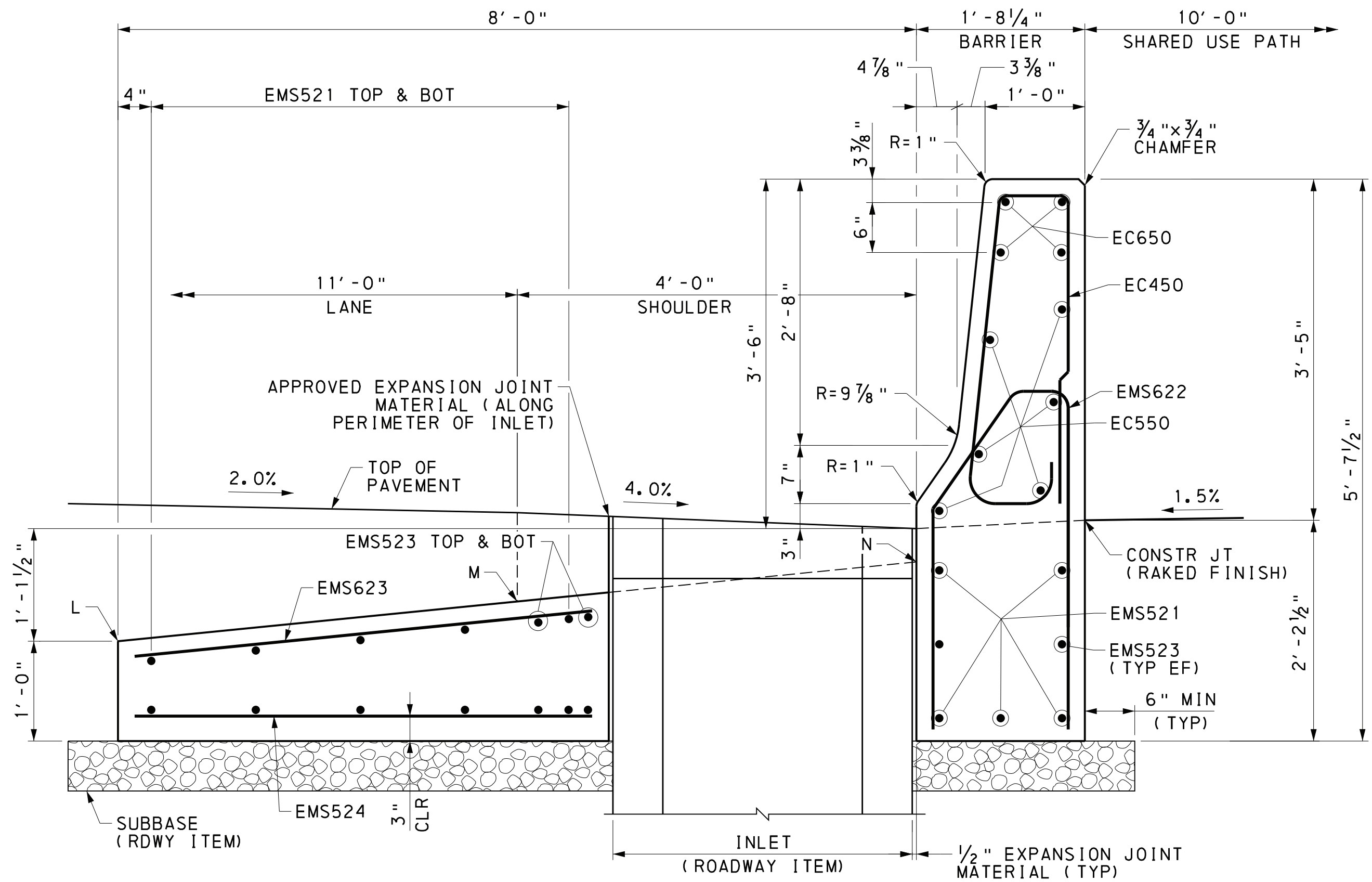
RECOMMENDED 12-6-2022

SHEET 66 OF 93

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INLET REINFORCEMENT PLAN



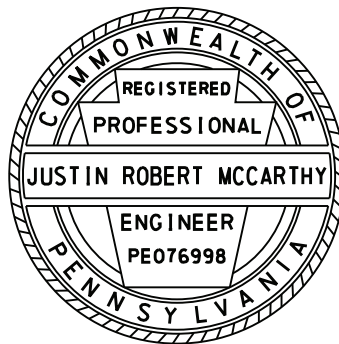
SECTION PP-PP



Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 2

RECOMMENDED 12-6-2022

SHEET 68 OF 93

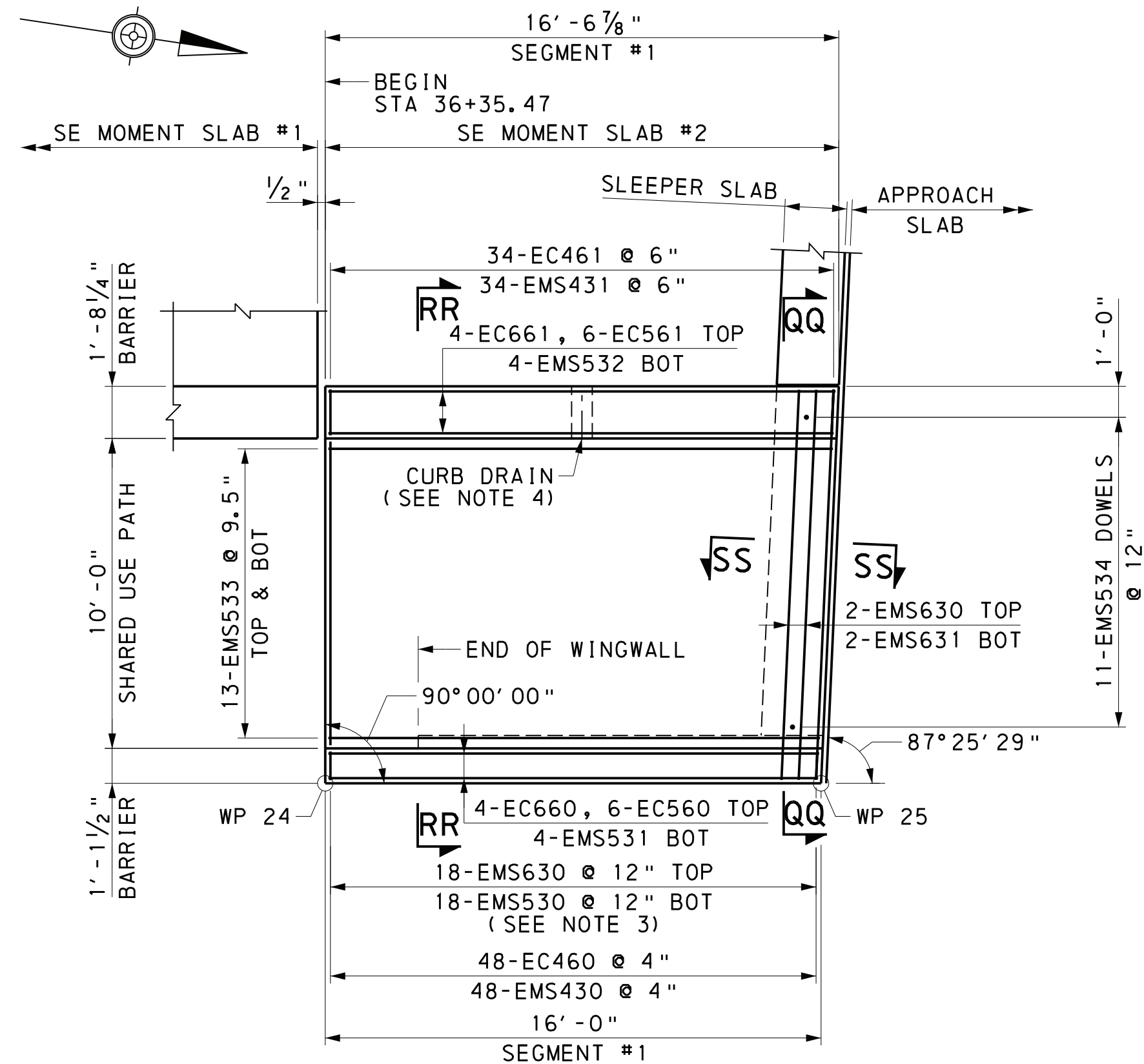
S-39451

REFERENCES:

GENERAL NOTES
STAKE-OUT PLAN
MOMENT SLAB DRAWINGS

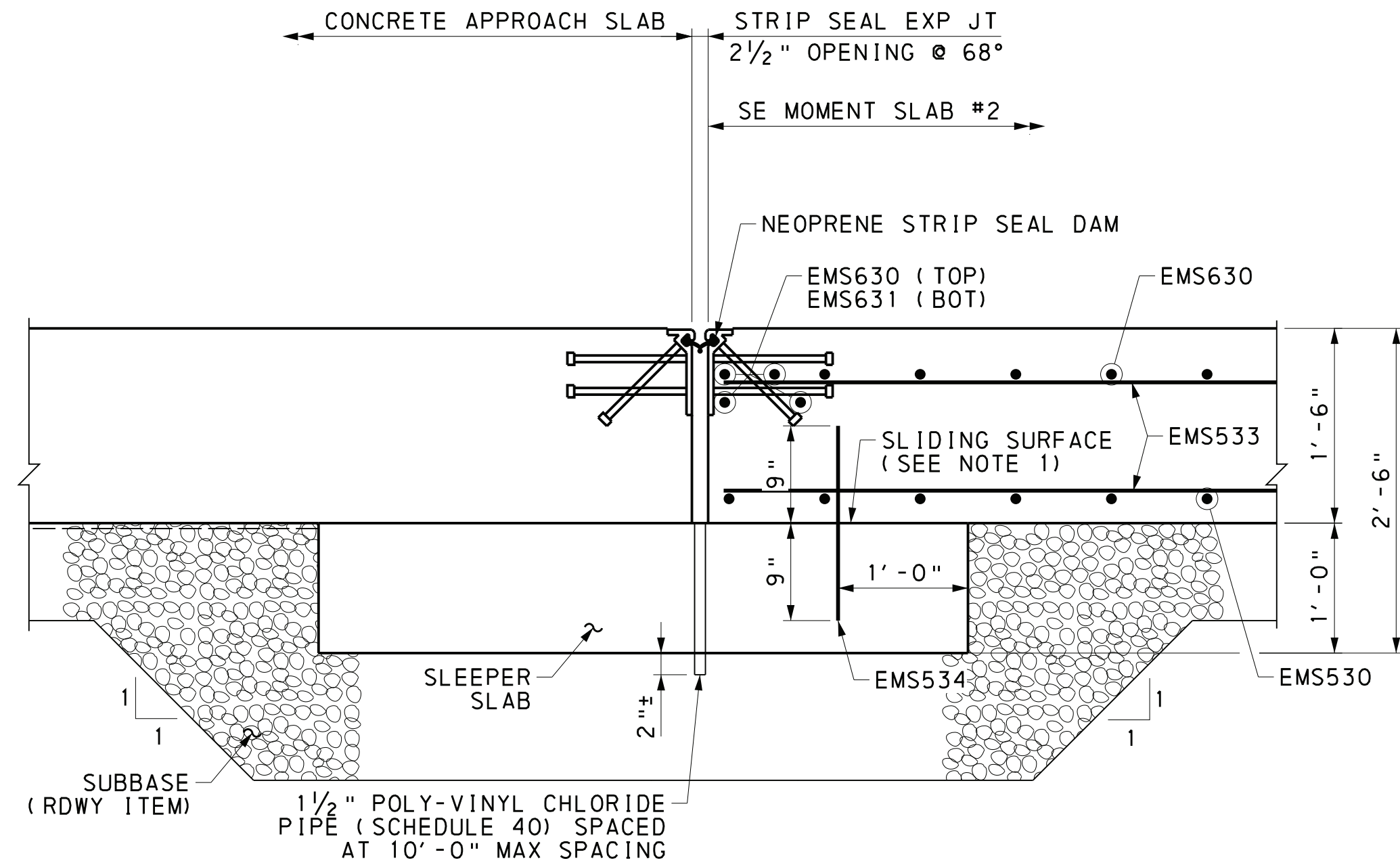
SHEETS:

4 & 5
13
67 - 78



SOUTHEAST MOMENT SLAB #2 PLAN

2 0 2 4 FEET



SECTION SS-SS

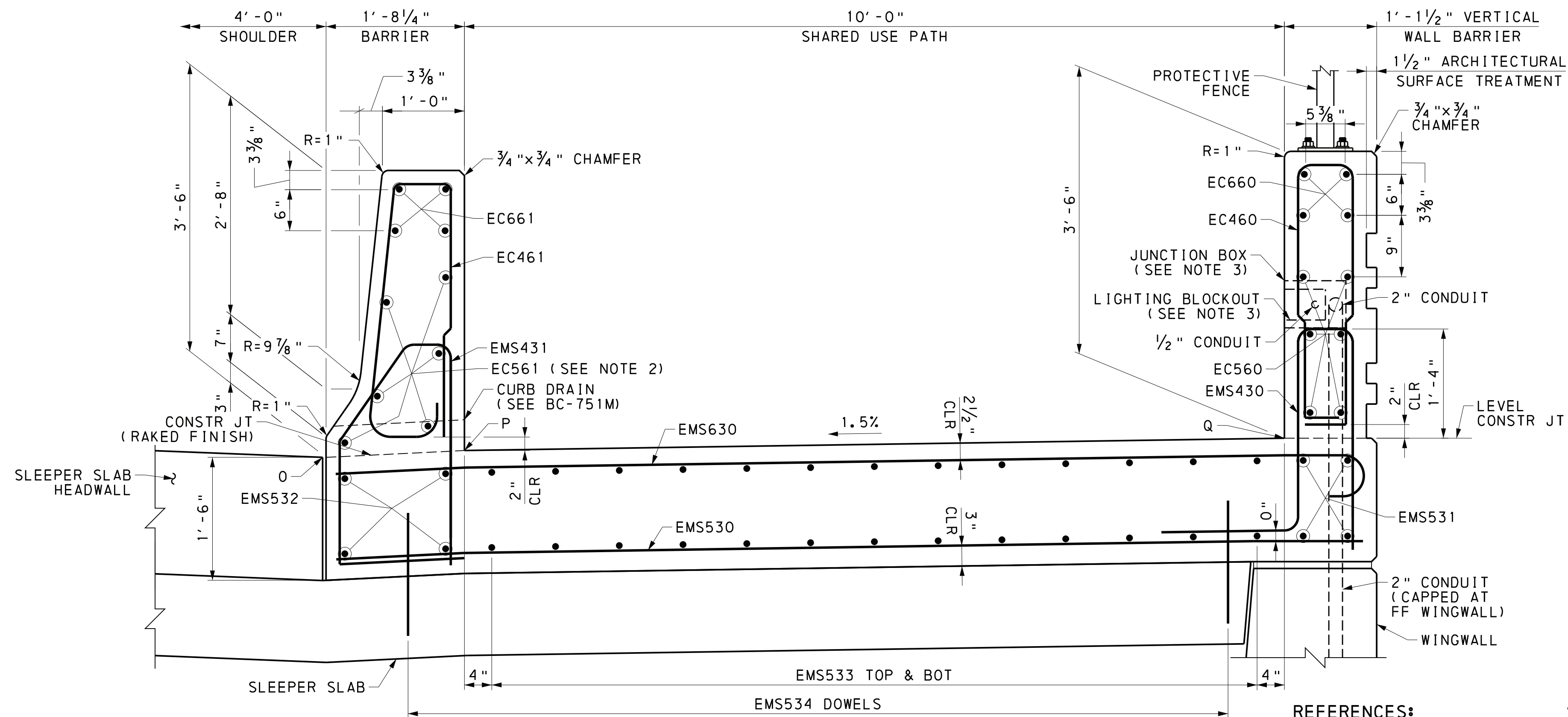
6 0 6 12 INCHES

(APPROACH SLAB & SLEEPER SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)

STATION	0	P	Q
36+35.47	392.14	392.22	392.37
36+40.00	392.40	392.48	392.63
36+50.00	392.97	393.05	393.20
36+51.52	393.05	393.14	393.29
36+51.97	393.08	393.16	-
36+52.04	393.08	-	-

NOTES:

- TROWEL SMOOTH AND PLACE 2 LAYERS OF 4 MIL POLYETHYLENE SHEETING AS BOND BREAKER.
- FIELD ADJUST EC561 BARS IN BARRIER AT CURB DRAIN LOCATIONS AS REQUIRED.
- PROVIDE ONE ADDITIONAL EC460 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (CLAP WITH EMS430). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.
- APPROXIMATE CURB DRAIN LOCATION SHOWN. FIELD ADJUST EMS431 AND EC461 BARRIER BARS AS REQUIRED TO ACCOMMODATE PLACEMENT OF CURB DRAIN.



SOUTHEAST MOMENT SLAB #2 SECTION QQ-QQ & RR-RR

6 0 6 12 INCHES

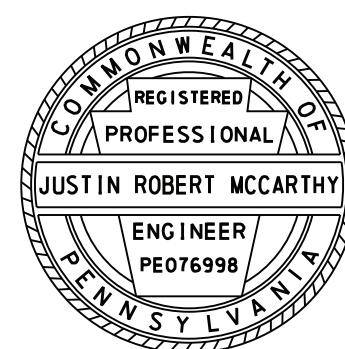
(SECTION QQ-QQ SHOWN, SECTION RR-RR IS WITHOUT SLEEPER SLAB)

REFERENCES:

GENERAL PLAN	1
MOMENT SLAB GENERAL PLANS	2
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
MOMENT SLAB DRAWINGS	67 - 78

SHEETS:

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HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 3

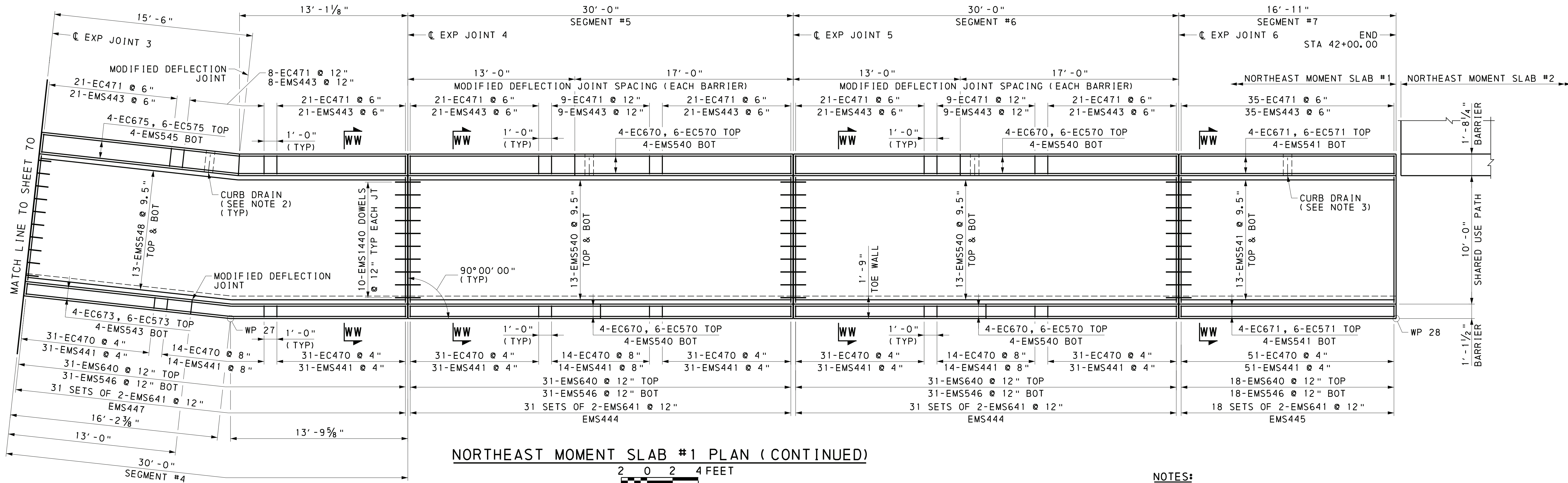
RECOMMENDED 12-6-2022

SHEET 69 OF 93

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6/23/2022 63016-s-br01-mem05.dgn

DES: MCA DES CKD: JDH DWG: JTM DWG CKD: CEK



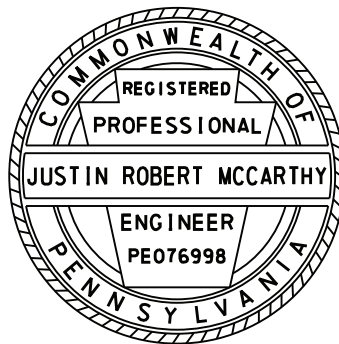
NOTES:

1. PROVIDE $\frac{1}{2}$ " OPEN JOINT AT EXPANSION JOINT LOCATIONS. FOLLOW TYPE E JOINT PER RC-20M, MODIFIED FOR $\frac{1}{2}$ " JOINT OPENING.
2. APPROXIMATE CURB DRAIN LOCATION SHOWN. LOCATE CURB DRAINS WITHIN LIMITS WHERE VERTICAL BARS ARE SPACED AT 12". PROVIDE 6" MIN SPACING FROM ϕ OF CURB DRAIN TO MODIFIED DEFLECTION JOINT. PLACE CURB DRAINS AT APPROXIMATELY 30'-0" SPACING. REFER TO BC-752M FOR ADDITIONAL INFORMATION.
3. APPROXIMATE CURB DRAIN LOCATION SHOWN. FIELD ADJUST EMS443 AND EC471 BARRIER BARS AS REQUIRED TO ACCOMMODATE PLACEMENT OF CURB DRAIN.

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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SUITE 300
HARRISBURG, PA 17110

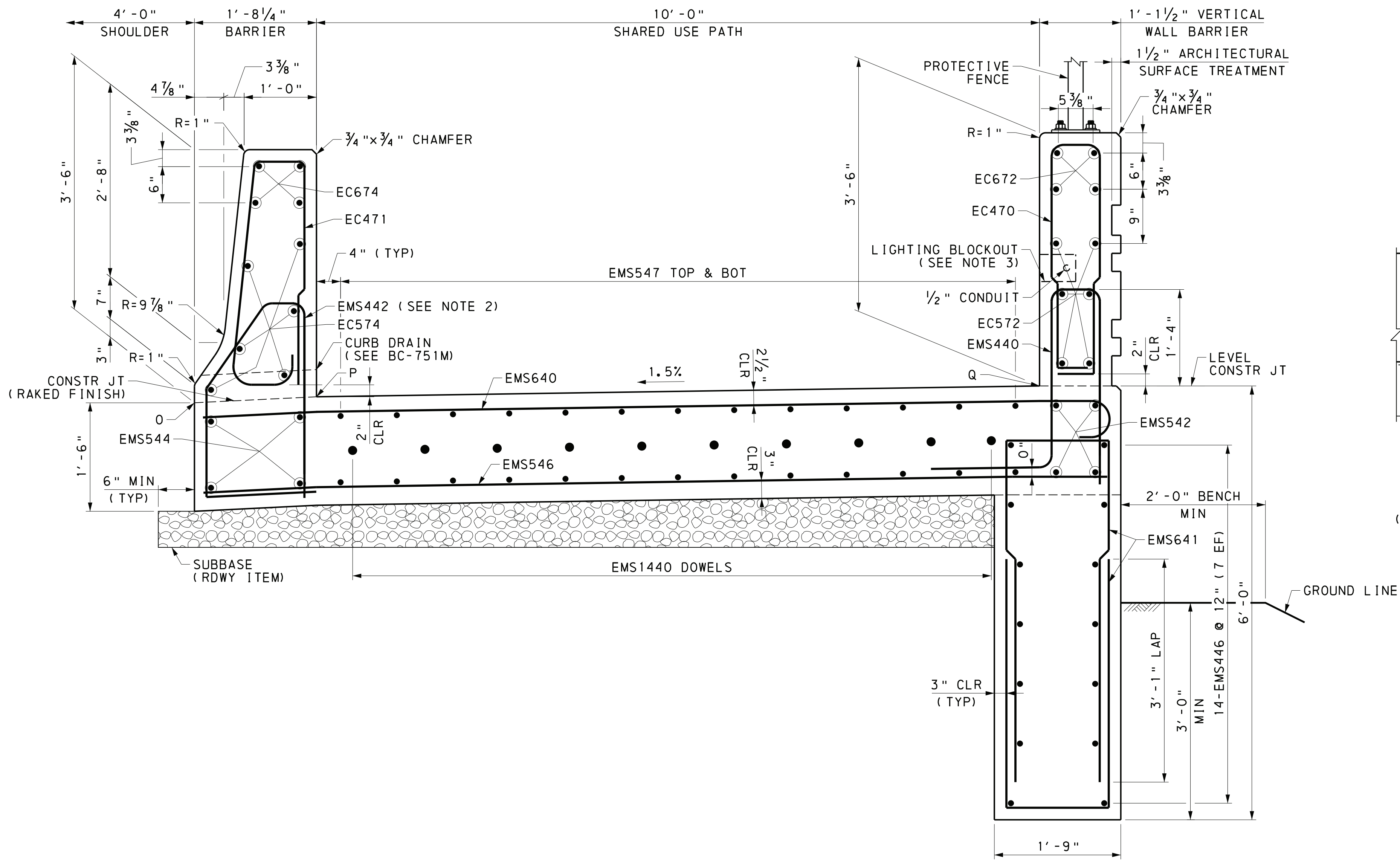
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 5

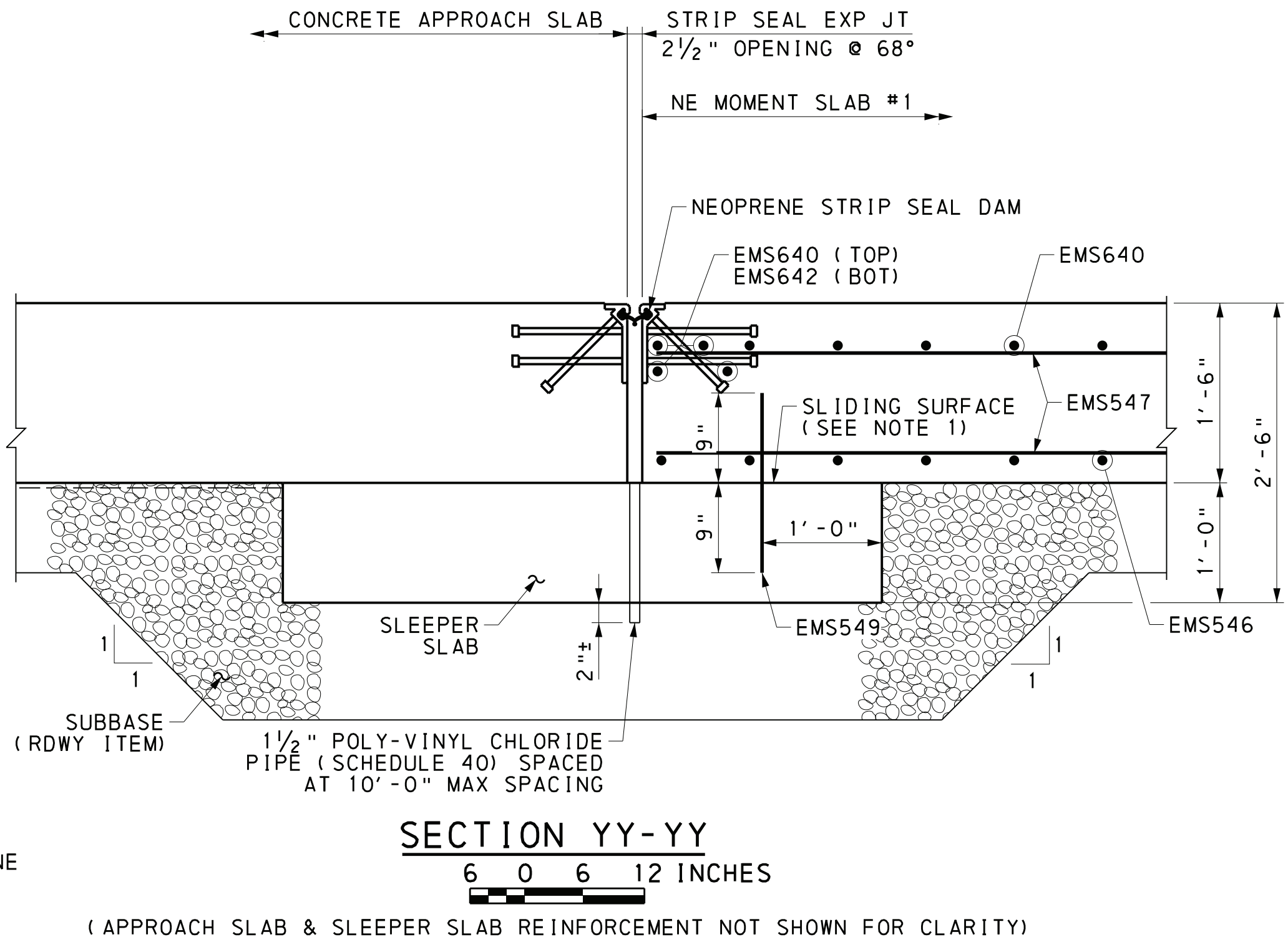
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SHEET 71 OF 93

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NORTHEAST MOMENT SLAB SECTION VV-VV
6 0 6 12 INCHES

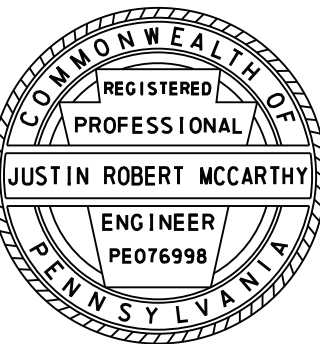


- NOTES:
- TROWEL SMOOTH AND PLACE 2 LAYERS OF 4 MIL. POLYETHYLENE SHEETING AS BOND BREAKER.
 - FIELD ADJUST EC574 BARS IN BARRIER AT CURB DRAIN LOCATIONS AS REQUIRED.
 - PROVIDE ONE ADDITIONAL EC470 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EMS440). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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SR 0083 SECTION 079
SEG 0020 OFFSET 0291
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 6

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MOMENT SLAB GENERAL PLANS	2
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
MOMENT SLAB DRAWINGS	67 - 78



NOTES:

1. FIELD ADJUST EC570, EC571, AND EC575 BARS IN BARRIER AT CURB DRAIN LOCATIONS AS REQUIRED.
2. PROVIDE ONE ADDITIONAL EC470 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EMS441). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 7

RECOMMENDED <u>12-6-2022</u>	SHEET <u>73</u> OF <u>93</u>
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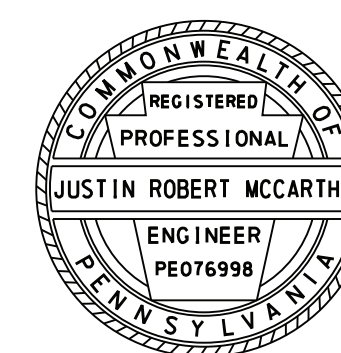
S-39451

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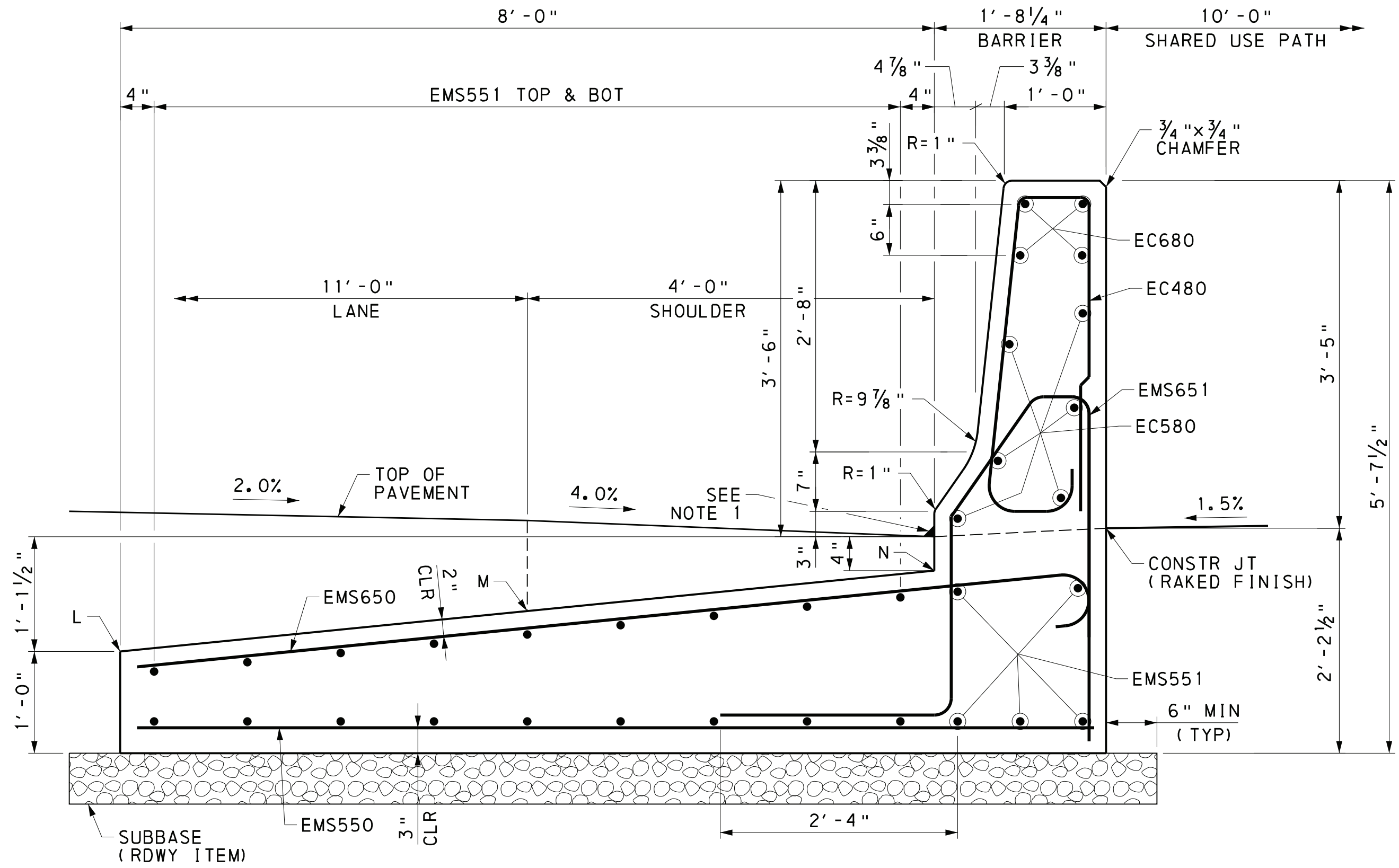
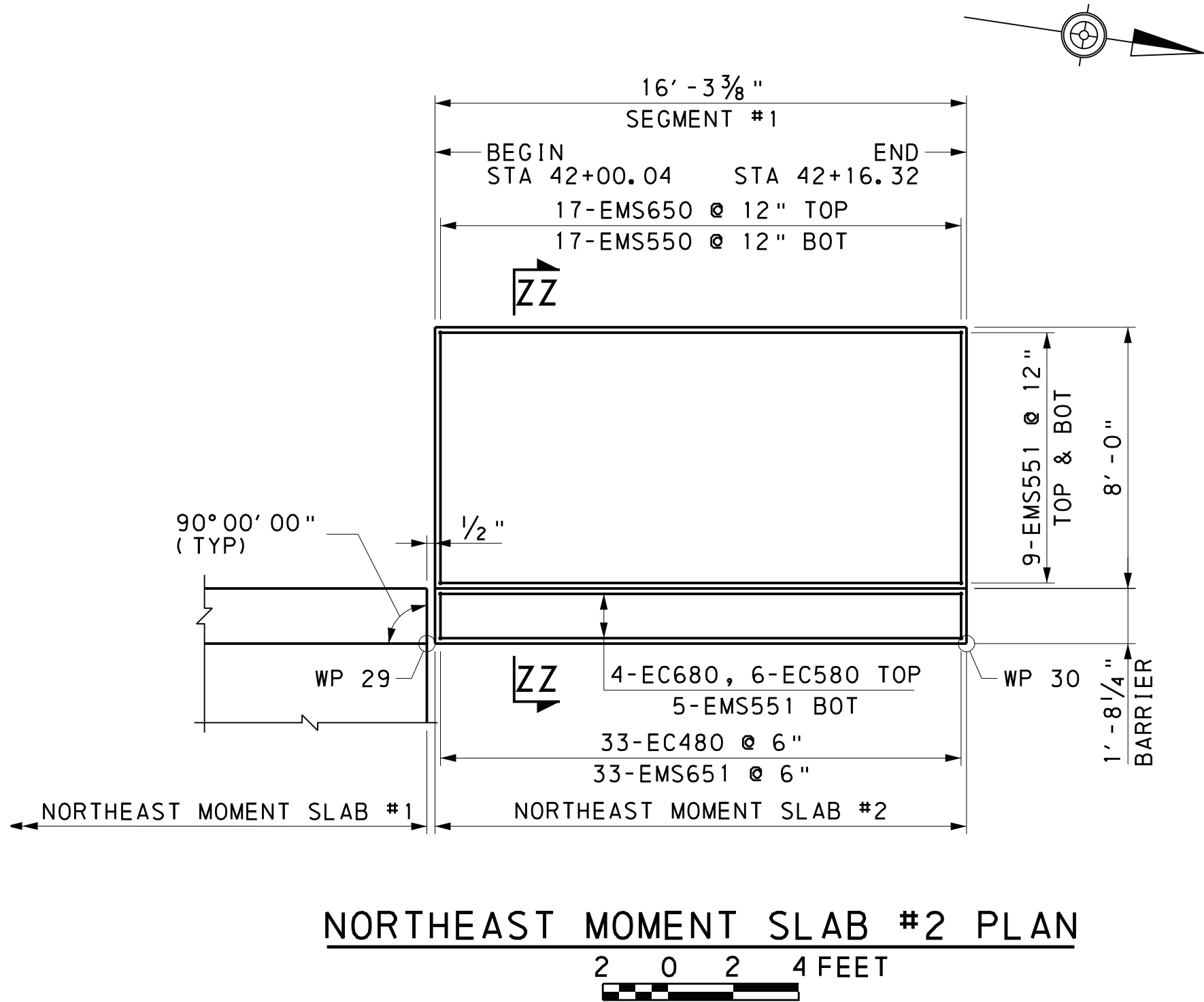
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GENERAL NOTES	4 & 5
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NORTHEAST MOMENT SLAB #2 SECTION ZZ-ZZ

TOP OF MOMENT SLAB ELEVATIONS			
STATION	L	M	N
42+00.00	390.31	390.71	391.11
42+10.00	389.88	390.27	390.67
42+16.32	389.63	390.02	390.42

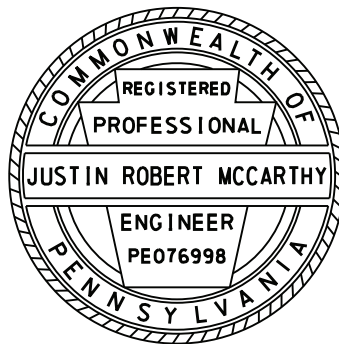
NOTES:

1. ASPHALT RUBBER SEALING COMPOUND (PUB 408, SECTION 705.4(G))

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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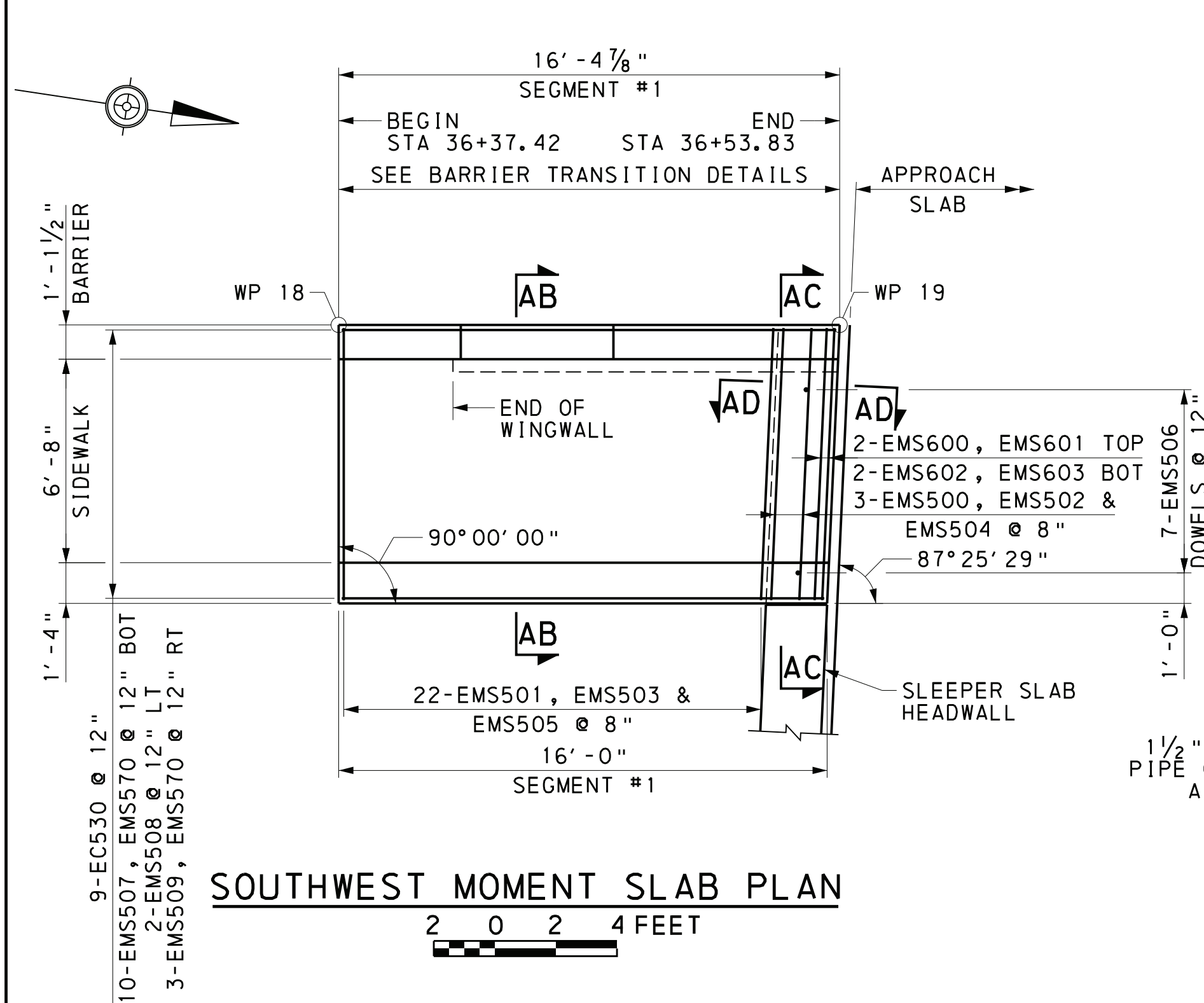
DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 8

RECOMMENDED 12-6-2022
SHEET 74 OF 93
S-39451

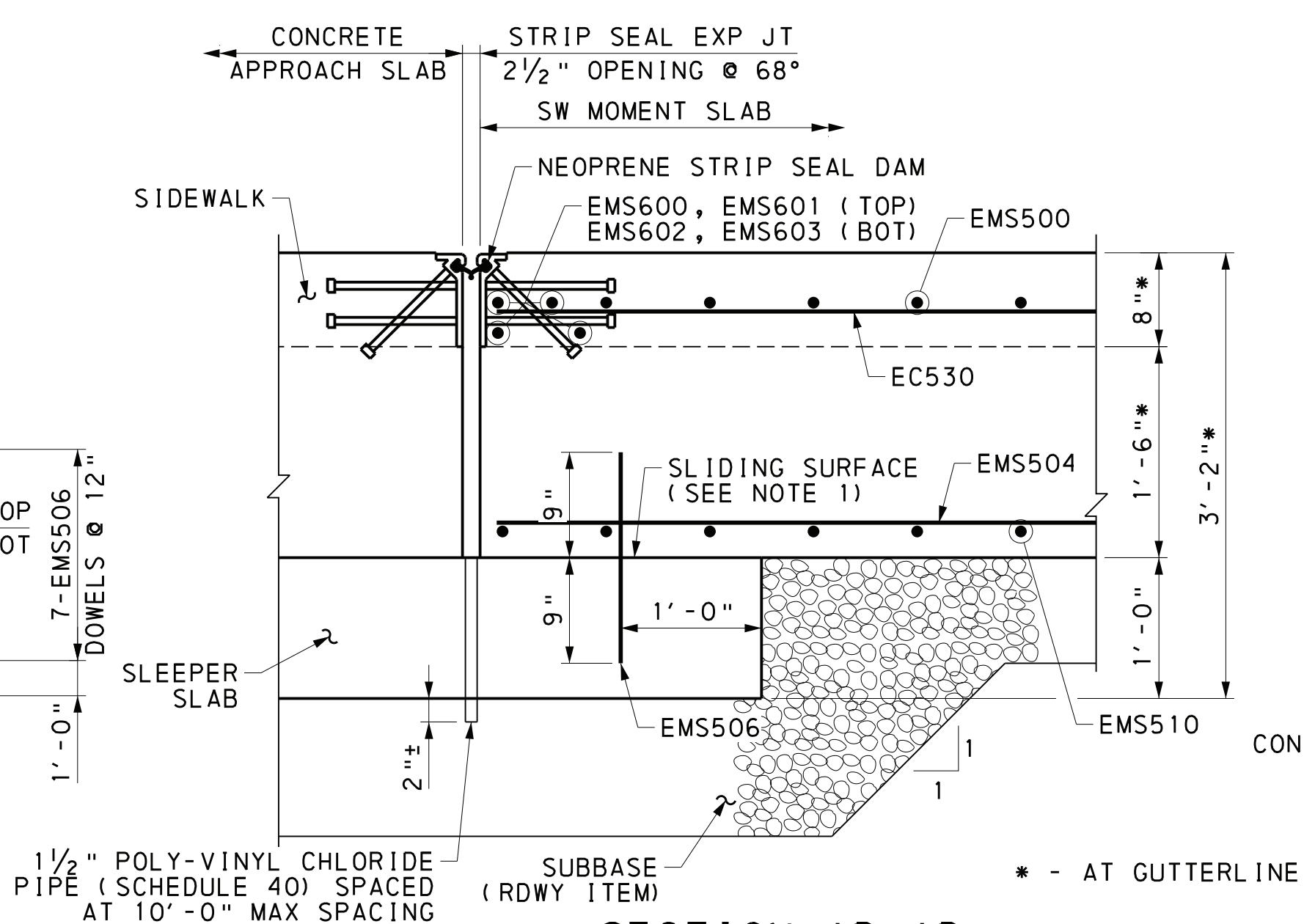
REFERENCES:

GENERAL PLAN	1
MOMENT SLAB GENERAL PLANS	2
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
MOMENT SLAB DRAWINGS	67 - 78

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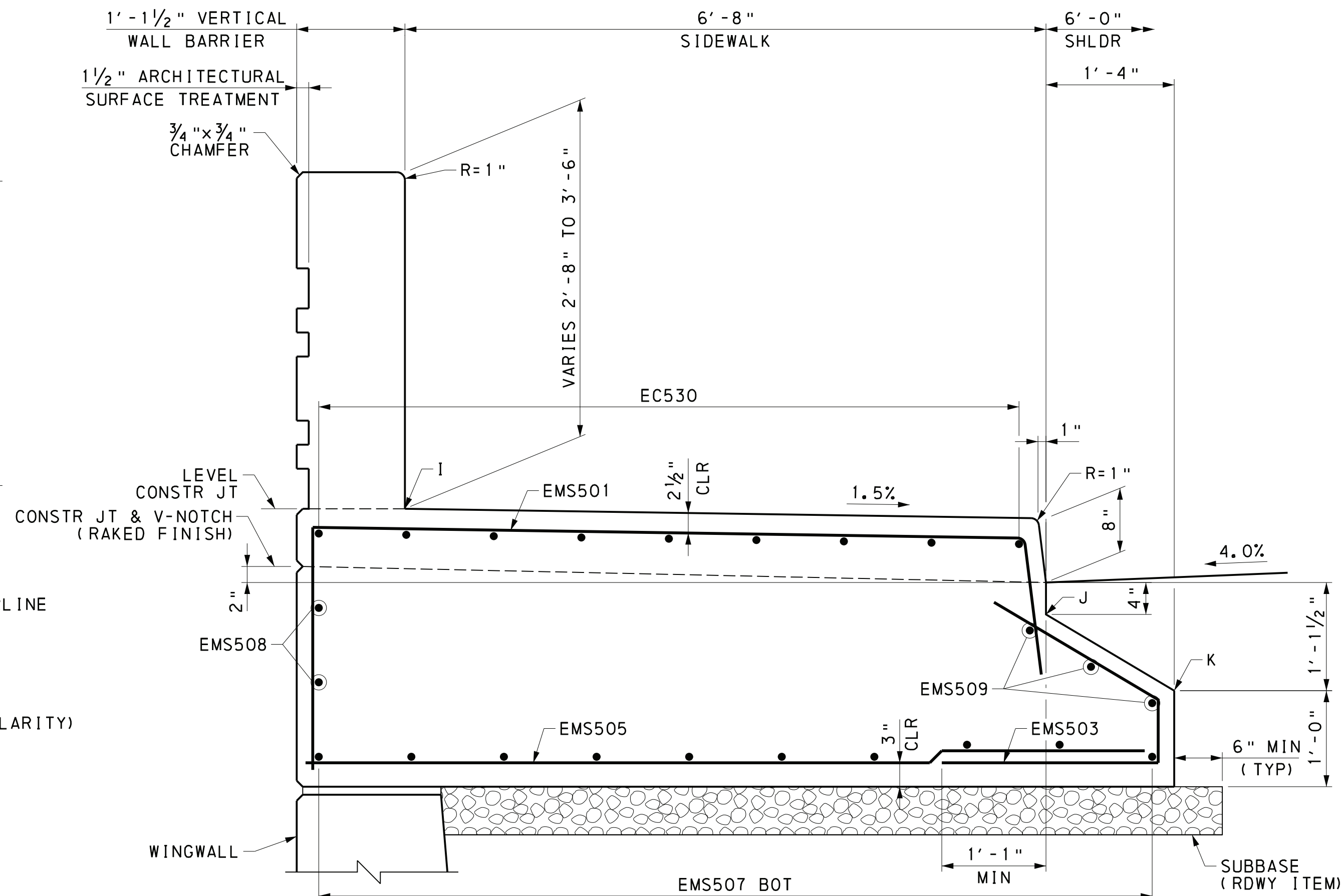


SOUTHWEST MOMENT SLAB PLAN



SECTION AD-AD

(APPROACH SLAB & SLEEPER SLAB REINFORCEMENT NOT SHOWN FOR CLARITY)



SOUTHWEST MOMENT SLAB SECTION AB-AB (BURIED)

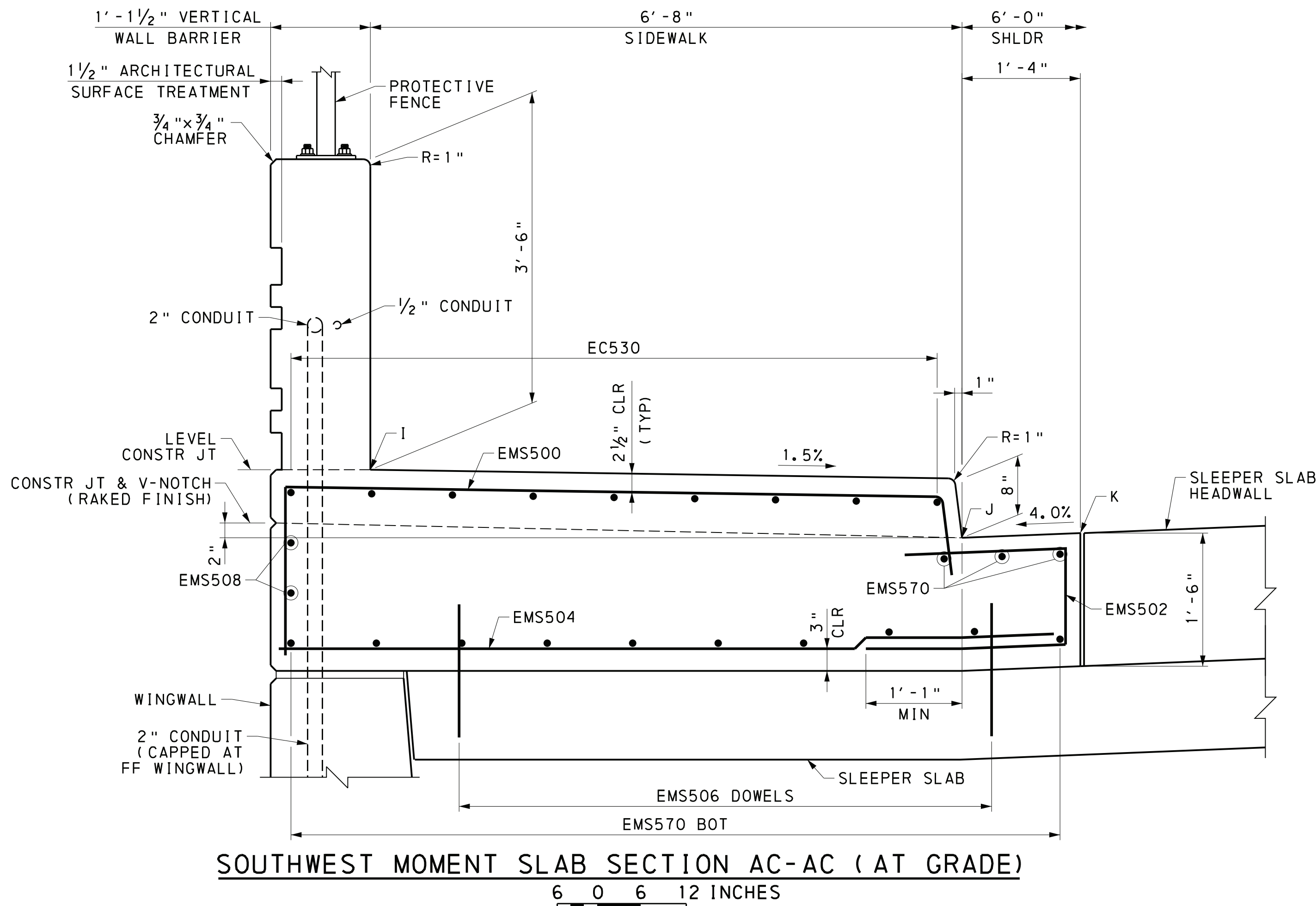
(BARRIER REINFORCEMENT NOT SHOWN FOR CLARITY)

TOP OF MOMENT SLAB ELEVATIONS			
STATION	I	J	K
36+37.42	392.93	391.84**	391.04**
36+40.00	393.08	391.98**	391.19**
36+50.00	393.65	392.55**	391.76**
36+51.42	393.73	392.63**	391.84**
36+51.42	393.73	392.97*	393.02*
36+51.48	393.74	392.64**	391.85**
36+51.48	393.74	392.97*	393.02*
36+51.78	393.75	392.65**	391.86**
36+51.78	393.75	392.99*	393.04*
36+53.42	393.85	393.08*	393.13*
36+53.48	393.85	393.08*	-
36+53.78	393.87	-	-

* "AT GRADE" ELEVATION
** "BURIED" ELEVATION

NOTES:

- TROWEL SMOOTH AND PLACE 2 LAYERS OF 4 MIL. POLYETHYLENE SHEETING AS BOND BREAKER.
- DO NOT LOCATE EXPANSION JOINTS WITHIN 2'-0" OF THE CENTERLINE OF A JUNCTION BOX.



SOUTHWEST MOMENT SLAB SECTION AC-AC (AT GRADE)

(BARRIER REINFORCEMENT NOT SHOWN FOR CLARITY)

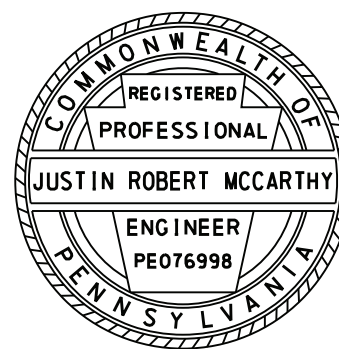
REFERENCES:

GENERAL PLAN	1
MOMENT SLAB GENERAL PLANS	2
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
MOMENT SLAB DRAWINGS	67 - 78

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SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

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BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

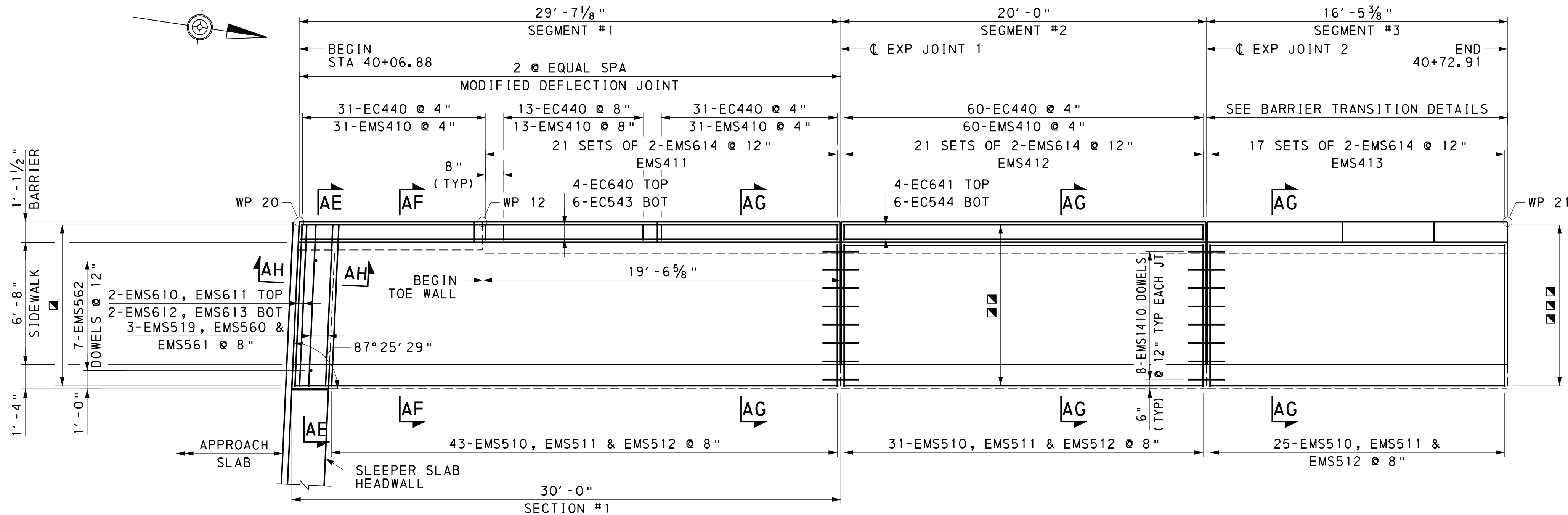
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DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 9

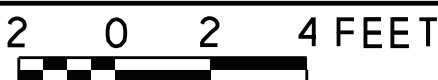
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SHEET 75 OF 93

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NORTHWEST MOMENT SLAB PLAN



LEGEND

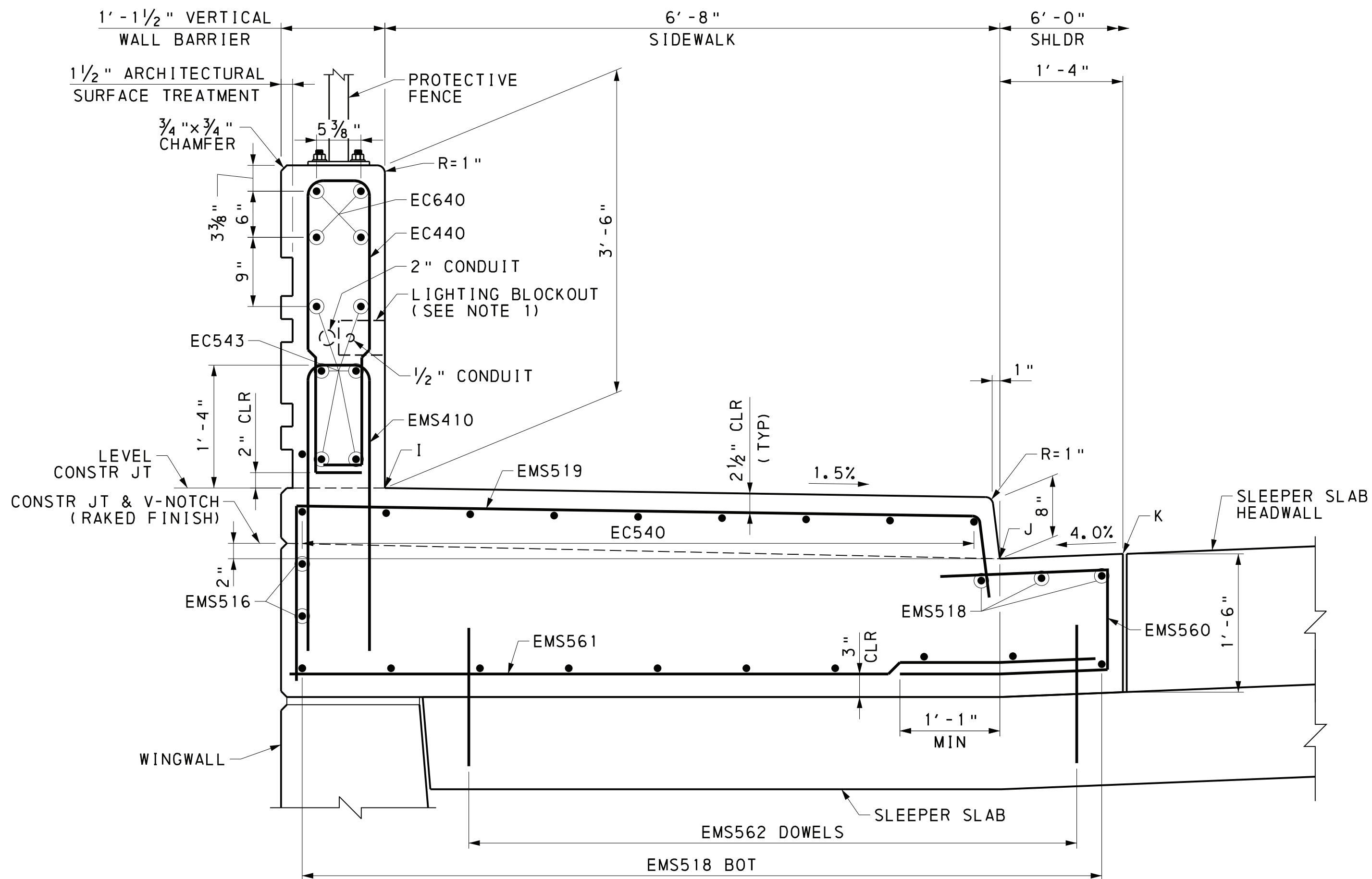
- 9-EC540 @ 12"
10-EMS515, EMS518 @ 12" BOT
2-EMS516 @ 12" LT
3-EMS517, EMS518 @ 12" RT
- 9-EC541 @ 12"
10-EMS513 @ 12" BOT
2-EMS513 @ 12" LT
3-EMS513 @ 12" RT
- 9-EC542 @ 12"
10-EMS514 @ 12" BOT
2-EMS514 @ 12" LT
3-EMS514 @ 12" RT

TOP OF MOMENT SLAB ELEVATIONS			
STATION	I	J	K
40+06.47	---	---	401.47*
40+06.53	---	401.41*	401.46*
40+06.83	402.16	401.39*	401.45*
40+08.47	402.07	401.31*	401.36*
40+08.47	402.07	400.97**	400.18**
40+08.53	402.07	401.30*	401.36*
40+08.53	402.07	400.97**	400.18**
40+08.83	402.05	401.29*	401.34*
40+08.83	402.05	400.96**	400.16**
40+10.00	401.99	400.89**	400.10**
40+20.00	401.47	400.37**	399.58**
40+30.00	400.95	399.85**	399.06**
40+36.47	400.61	399.52**	398.72**
40+40.00	400.43	399.33**	398.54**
40+50.00	399.91	398.81**	398.02**
40+56.47	399.57	398.47**	397.68**
40+60.00	399.39	398.29**	397.50**
40+70.00	398.87	397.77**	396.98**
40+72.91	398.72	397.62**	396.83**

* "AT GRADE" ELEVATION
** "BURIED" ELEVATION

NOTES:

- PROVIDE ONE ADDITIONAL EC440 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EMS410). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING AND LUMINAIRES.



NORTHWEST MOMENT SLAB SECTION AE-AE (AT GRADE)

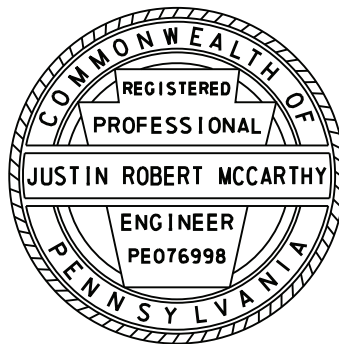


REFERENCES:

GENERAL PLAN	1
MOMENT SLAB GENERAL PLANS	2
GENERAL NOTES	4 & 5
STAKE-OUT PLAN	13
MOMENT SLAB DRAWINGS	67 - 78

SHEETS:

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SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416

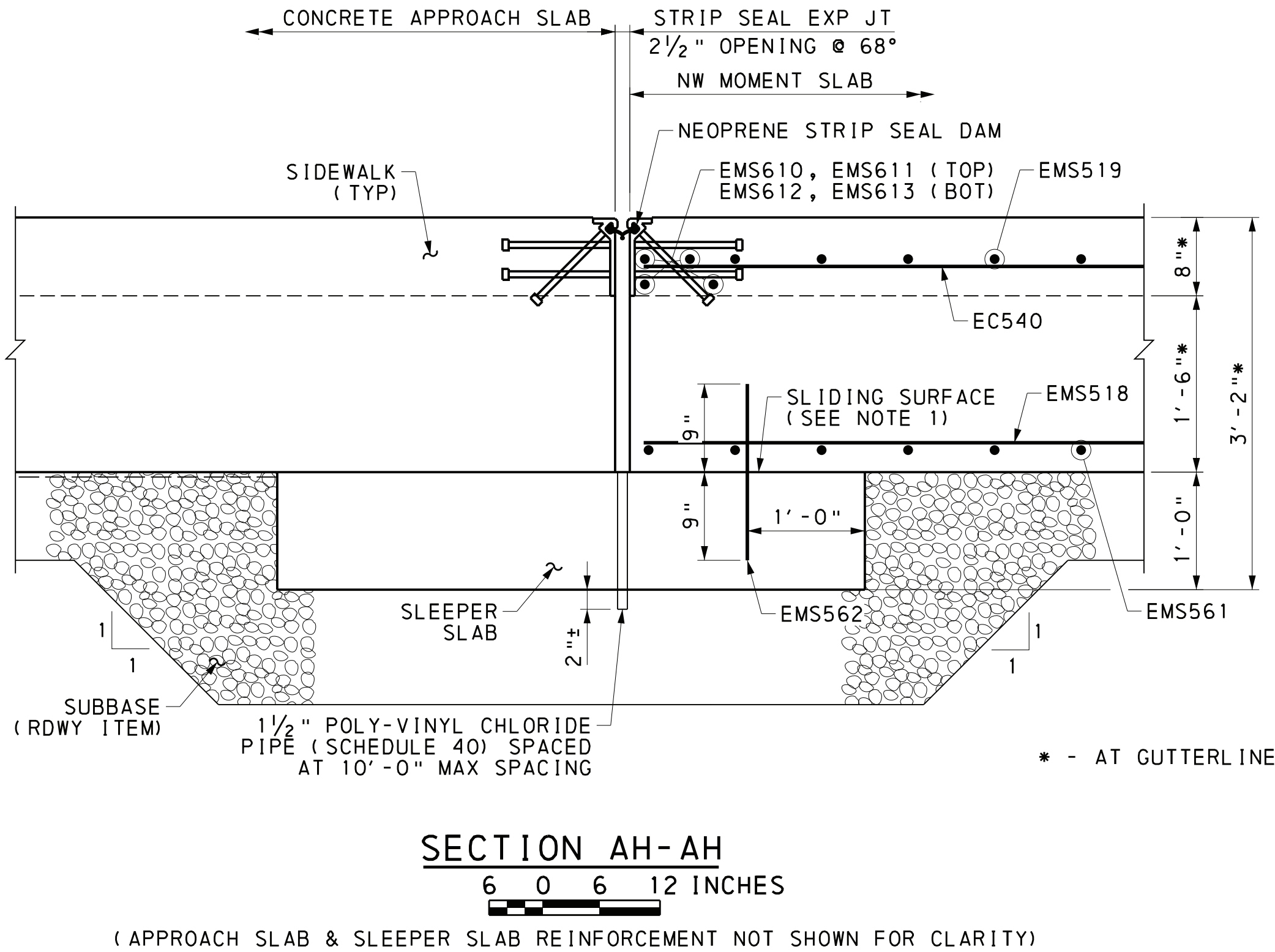
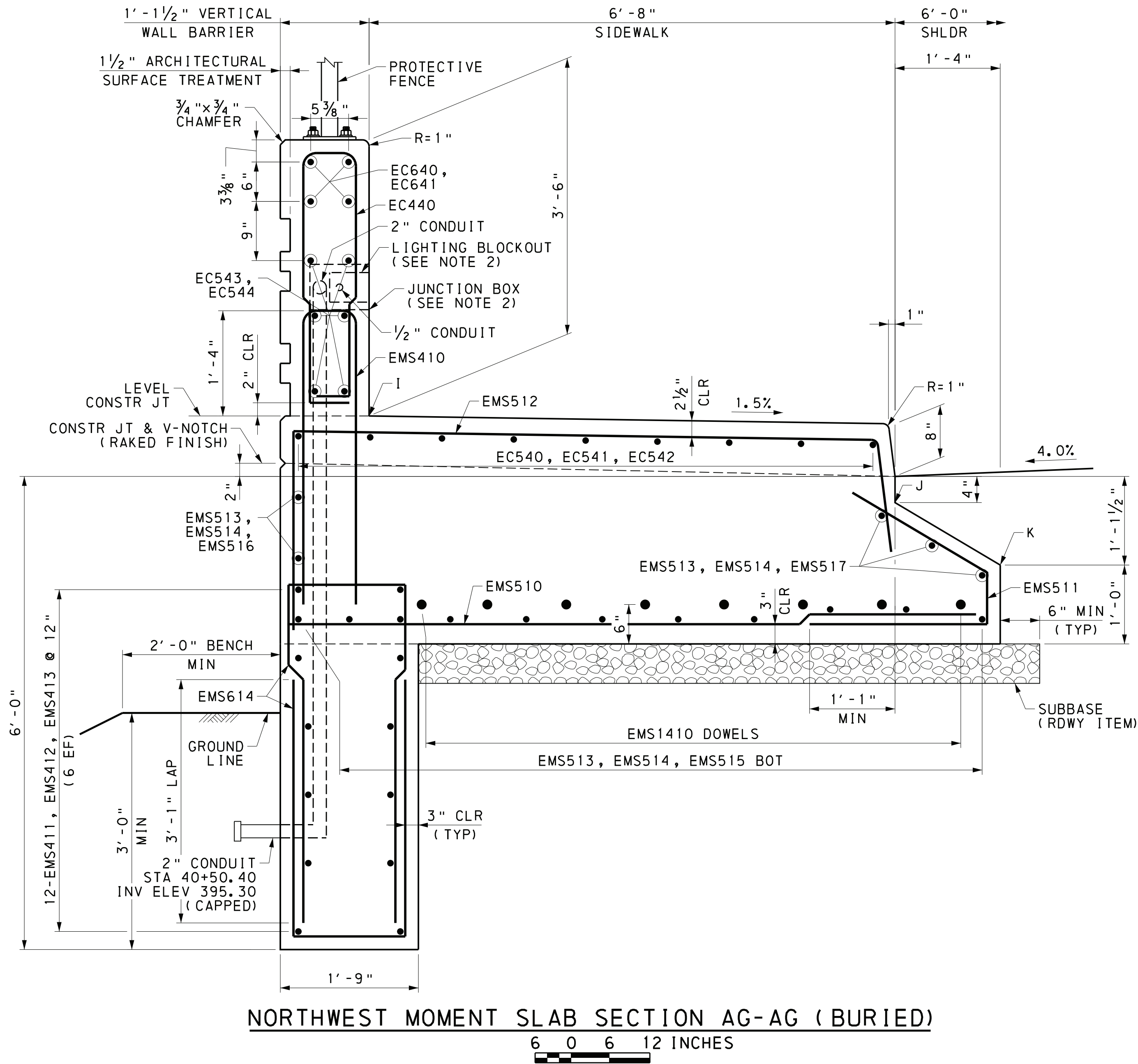
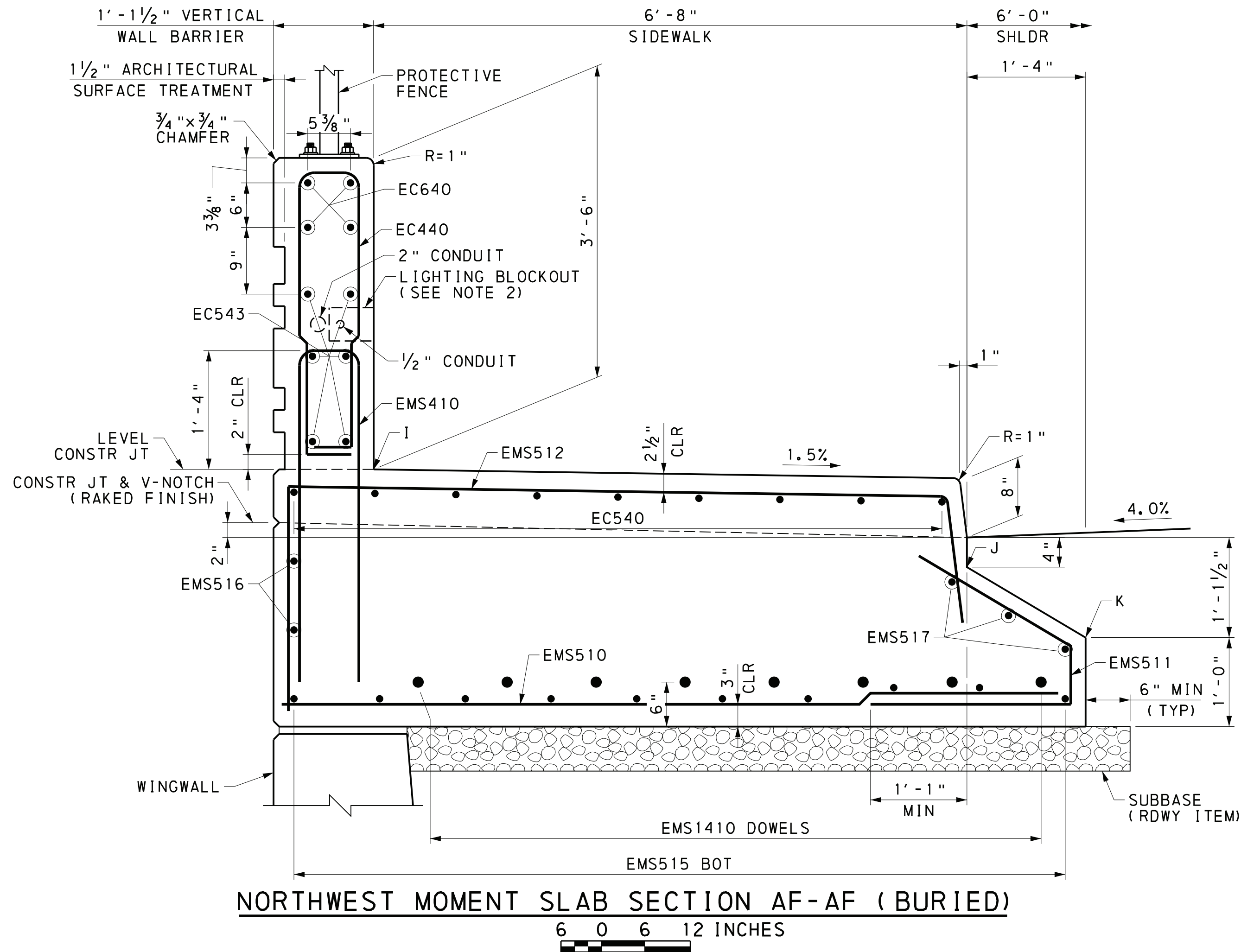
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DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 10

RECOMMENDED 12-6-2022

SHEET 76 OF 93

S-39451



- NOTES:
- TROWEL SMOOTH AND PLACE 2 LAYERS OF 4 MIL. POLYETHYLENE SHEETING AS BOND BREAKER.
 - PROVIDE ONE ADDITIONAL EC440 BAR ON EACH SIDE OF LIGHTING BLOCKOUT (LAP WITH EMS410). ADJUST REINFORCEMENT AS REQUIRED TO ACCOMMODATE PLACEMENT OF JUNCTION BOXES AND LIGHTING BLOCKOUTS. SEE HIGHWAY LIGHTING ALSO PLAN FOR PLACEMENT OF JUNCTION BOXES AND LUMINAIRES.

REFERENCES:	SHEETS:
GENERAL NOTES	4 & 5
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MOMENT SLAB DRAWINGS	67 - 78

Mark

Description

By

Chk' d

Recm' d

Date

REVISIONS

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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COMMONWEALTH OF PENNSYLVANIA

REGISTERED PROFESSIONAL

JUSTIN ROBERT MCCARTHY

ENGINEER

PE076998

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HARRISBURG, PA 17110

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DEPARTMENT OF TRANSPORTATION

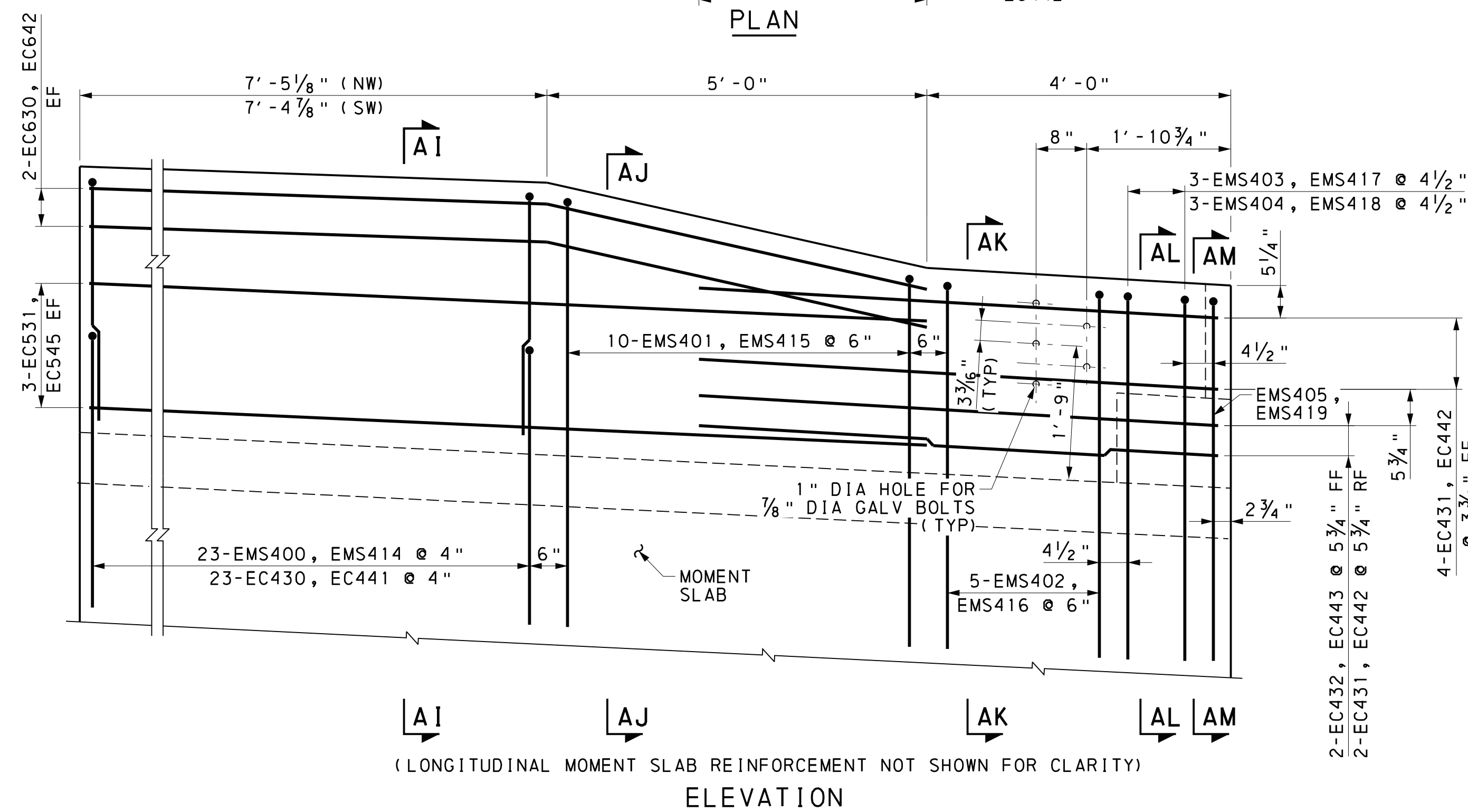
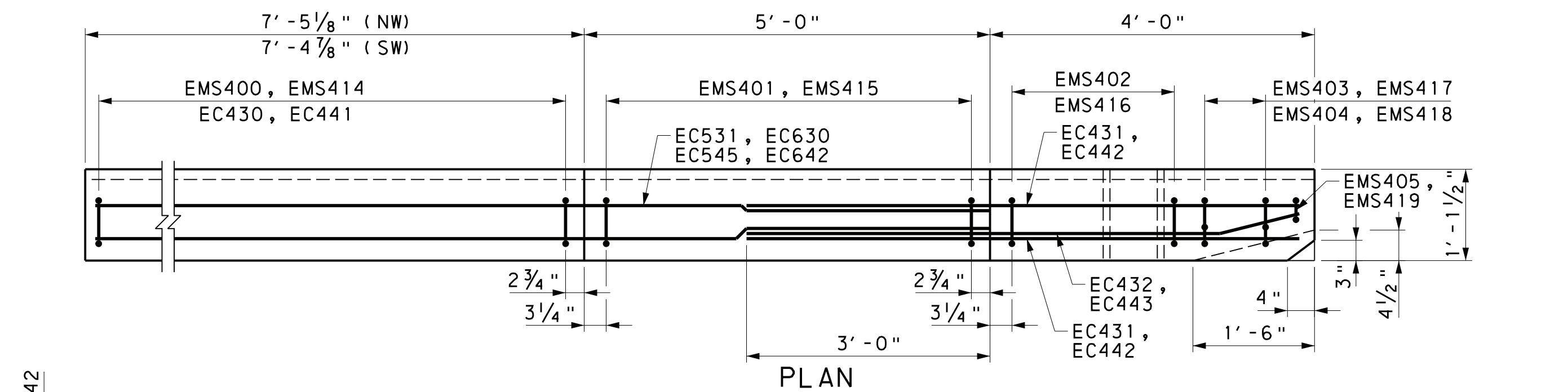
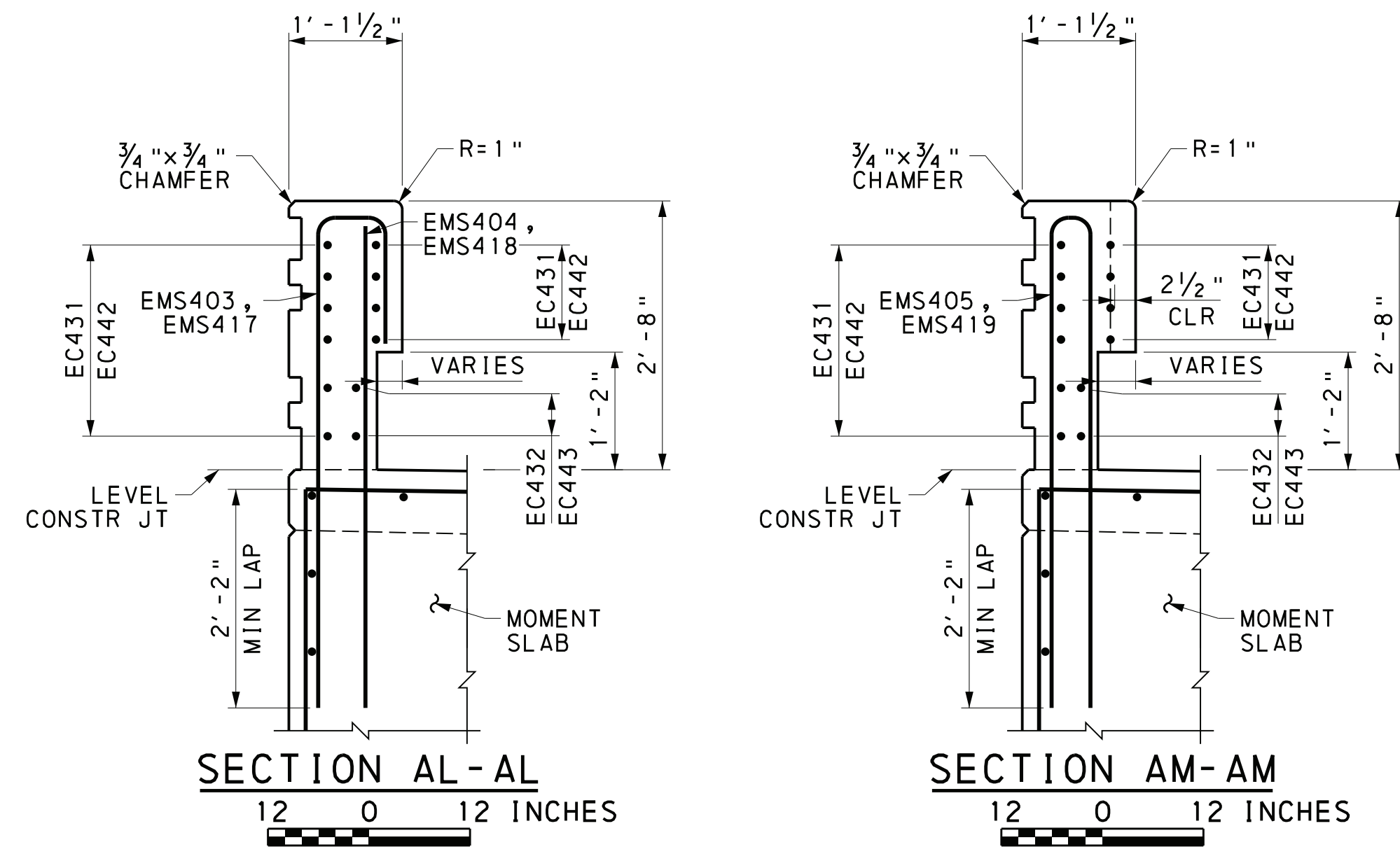
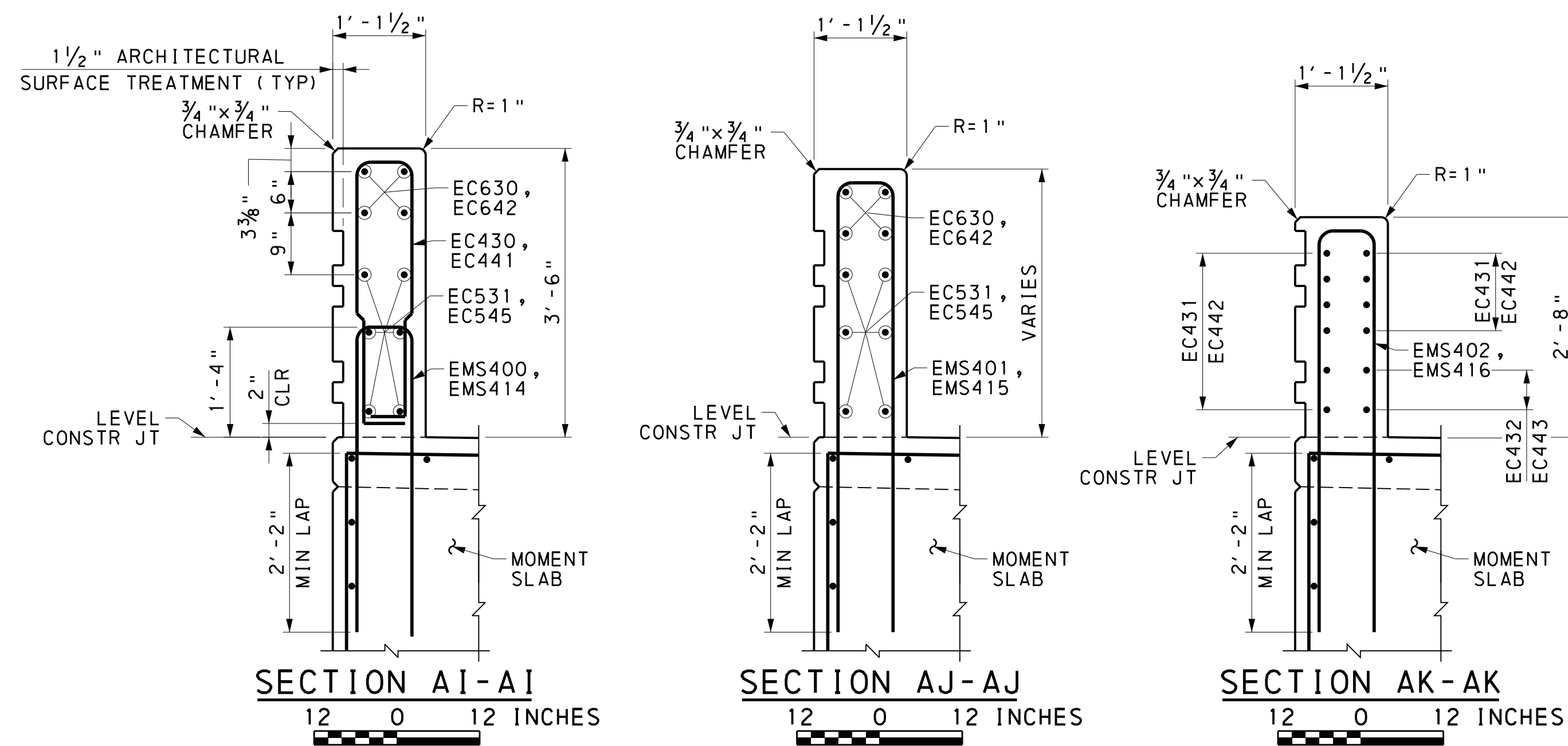
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 11

RECOMMENDED 12-6-2022

SHEET 77 OF 93
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6/23/2022 6:30:16 s-br01-mem1.dgn

DES: MCA DES CKD: JDH DWG: JTM DWG CKD: CEK



42" VERTICAL WALL CONCRETE BARRIER END TRANSITION

(NORTHWEST BARRIER SHOWN, SOUTHWEST BARRIER SIMILAR BY OPPOSITE HAND)

- NOTES:

1. EMS400, EC430, EC530 AND EC630 REINFORCEMENT
SERIES DENOTES SOUTHWEST MOMENT SLAB
REINFORCEMENT.
2. EMS410, EC440, EC540 AND EC640 REINFORCEMENT
SERIES DENOTES NORTHWEST MOMENT SLAB
REINFORCEMENT.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

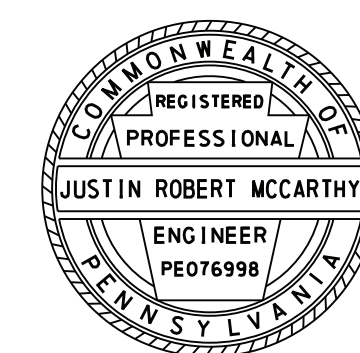
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3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
MOMENT SLAB DETAILS 12

RECOMMENDED 12-6-2022

SHEET 78 OF 93

S-39451

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REFERENCES:

MOMENT SLAB GENERAL PLAN

GENERAL NOTES

MOMENT SLAB DRAWINGS

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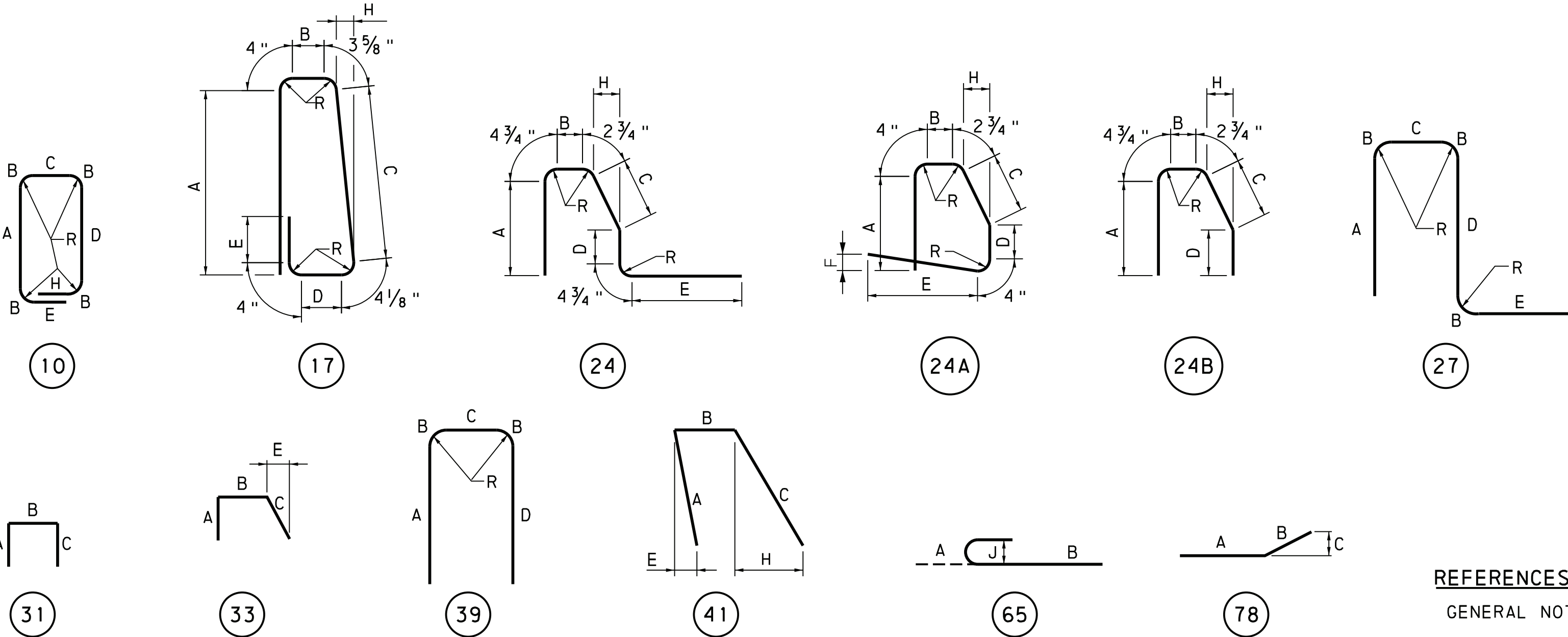
67 - 78

										BRIDGE 1
MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
SOUTHEAST MOMENT SLAB #1										
EC450	4	298	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R=2"
EC550	5	30	29'-7"	STR						
EC551	5	6	18'-7"	STR						
EC650	6	20	29'-7"	STR						
EC651	6	4	18'-7"	STR						
EMS520	5	172	9'-4"	STR						
EMS521	5	99	29'-7"	STR						
EMS522	5	23	18'-7"	STR						
EMS523	5	12	10'-11"	STR						
EMS524	5	8	4'-7"	STR						
EMS525	5	32	4'-0"	STR						
EMS526	5	8	12'-0"	STR						
EMS527	5	8	19'-8"	STR						
EMS528	5	8	4'-9"	STR						
EMS529	5	8	12'-5"	STR						
EMS620	6	164	10'-0"	65	8"	9'-4"				J = 6"
EMS621	6	285	9'-5 1/8"	24	3'-0"	1 7/8"	1'-3 3/4"	1'-10"	2'-1 1/4"	H = 9", R = 2 1/4"
EMS622	6	13	7'-1 1/8"	24B	3'-0"	1 7/8"	1'-3 3/4"	2'-0"		H = 9", R = 2 1/4"
EMS623	6	8	4'-7 1/2"	STR						
EMS721	7	8	10'-2"	65	10"	9'-4"				J = 7"
EMS1420	14	40	1'-6"	STR						DOWEL
SOUTHEAST MOMENT SLAB #2										
EC460	4	48	7'-9 1/2"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"
EC461	4	34	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"
EC560	5	6	15'-8"	STR						
EC561	5	6	16'-2"	STR						
EC660	6	4	15'-8"	STR						
EC661	6	4	16'-2"	STR						
EMS430	4	48	7'-10"	27	2'-4 1/2"	4"	3"	2'-2"	2'-0 1/2"	R = 2"
EMS431	4	34	7'-9 1/4"	24A	2'-2"	4"	1'-2"	1'-2"	2'-0 1/2"	F = 1 1/4", H = 7", R = 2"
EMS530	5	18	12'-5"	STR						
EMS531	5	4	15'-8"	STR						
EMS532	5	4	16'-2"	STR						
EMS533	5	26	15'-8 1/2" TO	STR						VARY 2 EACH BY 3/8"
EMS534	5	11	16'-1"	STR						
EMS534	5		1'-6"	STR						DOWEL
EMS630	6	18	13'-1"	65	8"	12'-5"				J = 6"
EMS631	6	2	12'-5"	STR						

MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
SOUTHWEST MOMENT SLAB										
EMS400	4	23	7'-11"	39	3'-6"	4"	3"	3'-6"		R = 2"
EMS401	4	10	10'-1 3/4" TO	39	4'-8" TO	2 3/8"	5"	4'-8" TO		VARY A & D EACH BY 1 1/8"(-)
			11'-9 3/4"		5'-6"			5'-6"		R = 1"
EMS402	4	5	10'-1 3/4"	39	4'-8"	2 3/8"	5"	4'-8"		R = 1"
EMS403	4	3	6'-6 1/4"	39	4'-8"	2 3/8"	5"	1' 0 1/2"		R = 1"
EMS404	4	3	5'-0"	STR						
EMS405	4	1	9'-11 1/4"	39	4'-10"	3 1/8"	0"	4'-8 1/2"		R = 1 1/2"
EMS500	5	2	10'-2"	41	1'-9"	7'-5"	1'-0"			E = 3/8", H = 1 1/2"
EMS501	5	22	11'-4"	41	2'-5"	7'-5"	1'-6"			E = 1/2", H = 1 3/8"
EMS502	6	2	5'-1"	31	2'-4"	1'-0"	1'-9"			
EMS503	5	22	4'-11"	33	2'-4"	7"	2'-0"		1'-0 1/4"	
EMS504	5	3	8'-9"	STR						
EMS505	5	22	8'-9"	STR						
EMS506	5	7	1'-6"	STR						DOWEL
EMS507	5	10	13'-8" TO	STR						VARY EACH BY 1/2"
			14'-0 1/2"							
EMS508	5	2	16'-0"	STR						
EMS509	5	3	13'-8"	STR						
EMS570	5	13	1'-8"	STR						
EMS600	6	2	10'-2"	41	1'-9"	7'-5"	1'-0"			E = 3/8", H = 1 1/2"
EMS601	6	2	5'-1"	31	2'-4"	1'-0"	1'-9"			
EMS602	6	2	7'-5"	STR						
EMS603	6	2	2'-4"	STR						
EC430	4	23	7'-9 1/2"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"
EC431	4	10	6'-10"	STR						
EC432	4	2	6'-11"	78	5'-6"	1'-5"	4 1/8"			
EC530	5	9	15'-8" TO	STR						VARY EACH BY 1/2"
			16'-0"							
EC531	5	6	12'-1"	STR						
EC630	6	4	12'-4"	78	7'-3"	5'-1"	10"			

NOTES:

- "E" PREFIX IN BAR MARK DENOTES EPOXY COATED BARS.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" & "C" ON STANDARD 135° AND 180° HOOKS, UNLESS NOTED.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



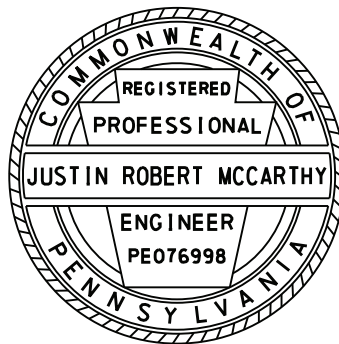
REFERENCES:

GENERAL NOTES
MOMENT SLAB DRAWINGS

SHEETS:

4 & 5
67 - 78

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PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
NEAR MOMENT SLABS REBAR SCHEDULE

RECOMMENDED 12-6-2022

SHEET 79 OF 93

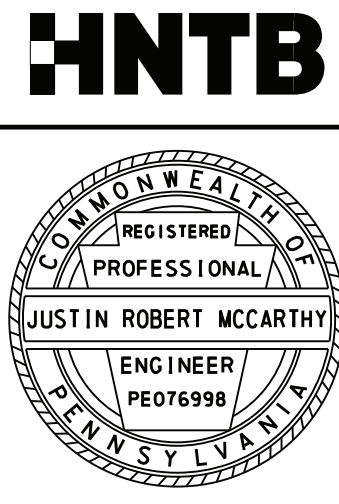
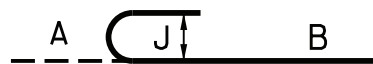
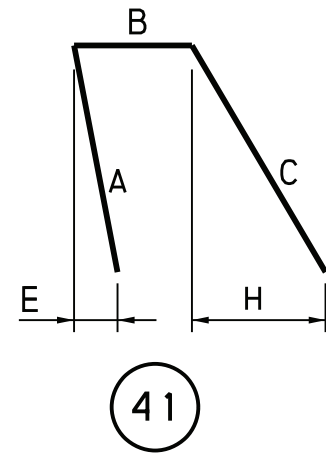
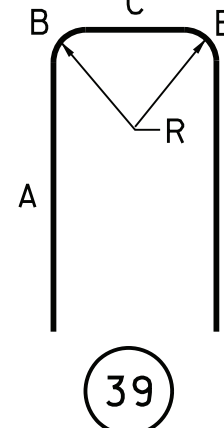
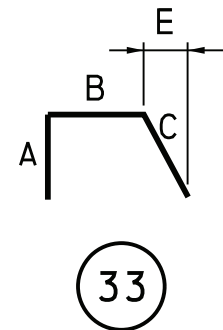
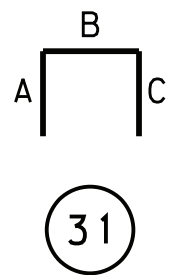
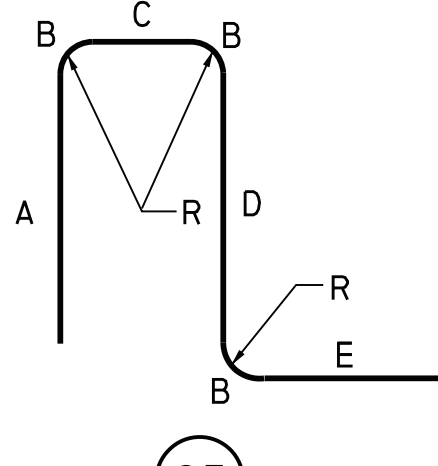
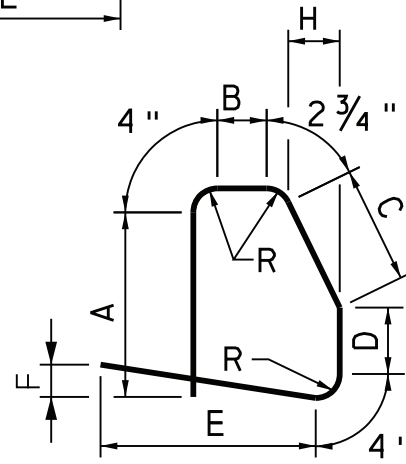
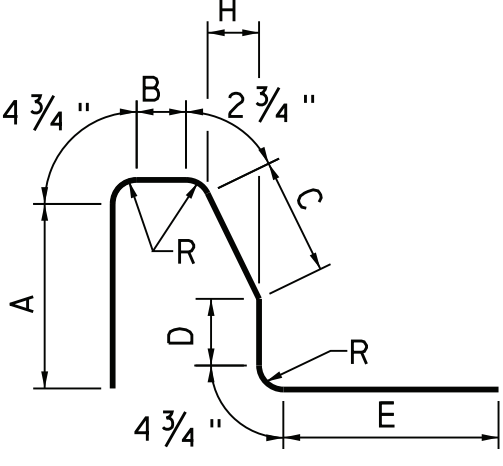
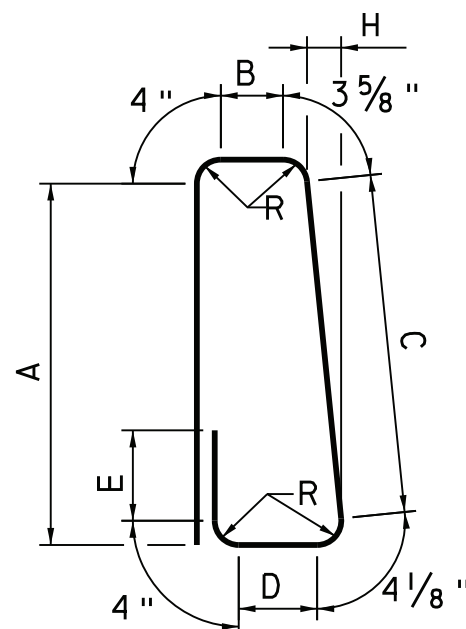
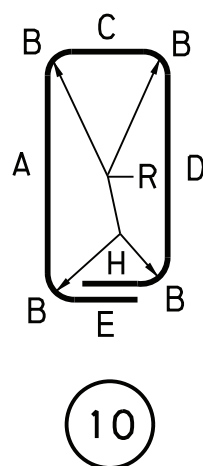
S-39451

											BRIDGE 1
MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS	
NORTHEAST MOMENT SLAB #1											
EC470	4	506	7'-9 1/2"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3" , R = 2"	
EC471	4	340	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC570	5	48	29'-7"	STR							
EC571	5	12	16'-6"	STR							
EC572	5	6	28'-9"	78	24'-2"	4'-7"	6"				
EC573	5	6	29'-5"	78	15'-11"	13'-6"	1'-5 3/4"				
EC574	5	4	29'-6"	78	24'-10"	4'-8"	6"				
EC575	5	4	28'-3"	78	15'-4"	12'-11"	1'-5"				
EC670	6	32	29'-7"	STR							
EC671	6	8	16'-6"	STR							
EC672	6	4	28'-9"	78	24'-2"	4'-7"	6"				
EC673	6	4	29'-5"	78	15'-11"	13'-6"	1'-5 3/4"				
EC674	6	4	29'-6"	78	24'-10"	4'-8"	6"				
EC675	6	4	28'-3"	78	15'-4"	12'-11"	1'-5"				
EMS440	4	75	7'-10"	27	2'-4 1/2"	4"	3"	2'-2"	2'-0 1/2"	R = 2"	
EMS441	4	431	6'-10"	27	1'-8 1/2"	4"	3"	1'-8"	2'-0 1/2"	R = 2"	
EMS442	4	51	7'-9 1/4"	24A	2'-2"	4"	1'-2"	1'-2"	2'-0 1/2"	F = 1 1/4", H = 7", R = 2"	
EMS443	4	289	6'-9 1/4"	24A	1'-8"	4"	1'-2"	8"	2'-0 1/2"	F = 1 1/4", H = 7", R = 2"	
EMS444	4	56	29'-7"	STR							
EMS445	4	14	16'-6"	STR							
EMS446	4	14	18'-9"	STR							
EMS447	4	14	29'-5"	78	15'-11"	13'-6"	1'-5 3/4"				
EMS540	5	136	29'-7"	STR							
EMS541	5	34	16'-6"	STR							
EMS542	5	4	28'-9"	78	24'-2"	4'-7"	6"				
EMS543	5	4	29'-5"	78	15'-11"	13'-6"	1'-5 3/4"				
EMS544	5	4	29'-6"	78	24'-10"	4'-8"	6"				
EMS545	5	4	28'-3"	78	15'-4"	12'-11"	1'-5"				
EMS546	5	204	12'-5"	STR							
EMS547	5	26	28'-10 1/2" TO	78	24'-3 1/2" TO	4'-7" TO	6"			VARY A EACH BY 1/2"	
			29'-6"		24'-9 1/2"	4'-8 1/2"				VARY B 2 EACH BY 1/8"	
EMS548	5	26	28'-5" TO	78	15'-5" TO	13'-0" TO	1-5" TO			VARY A EACH BY 1/2"	
			29'-5 1/2"		15'-11"	13'-6 1/2"	1'-5 3/4"			VARY B EACH BY 1/8"	
										VARY C 2 EACH	
EMS549	5	11	1'-6"	STR						DOWEL	
EMS640	6	206	13'-1"	65	8"	12'-5"				J = 6"	
EMS641	6	386	9'-7"	31	4'-2"	1'-3"	4'-2"				
EMS642	6	2	12'-5"	STR							
EMS1440	14	60	1'-6"	STR						DOWEL	
NORTHEAST MOMENT SLAB #2											
EC480	4	33	8'-1"	17	2'-9 1/2"	3 3/8"	2'-7 3/4"	6 3/4"	5"	H = 3 3/8", R = 2"	
EC580	5	6	15'-11"	STR							
EC680	6	4	15'-11"	STR							
EMS550	5	17	9'-4"	STR							
EMS551	5	23	15'-11"	STR							
EMS650	6	17	10'-0"	65	8"	9'-4"				J = 6"	
EMS651	6	33	9'-5 1/8"	24	3'-0"	1 7/8"	1'-3 3/4"	1'-10"	2'-1 1/4"	H = 9", R = 2 1/4"	

MARK	SIZE	NO REQ'D	LENGTH	TYPE	A	B	C	D	E	REMARKS
NORTHWEST MOMENT SLAB										
EC440	4	135	7'-9 1/2"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"
EC441	4	23	7'-9 1/2"	10	2'-9"	4"	3"	2'-9"	5 1/2"	H = 3", R = 2"
EC442	4	10	6'-10"	STR						
EC443	4	2	6'-11"	78	5'-6"	1'-5"	4 1/8"			
EC540	5	9	29'-3" TO	STR						VARY EACH BY 1/2"
			29'-7"							
EC541	5	9	19'-7"	STR						
EC542	5	9	16'-1"	STR						
EC543	5	6	29'-3"	STR						
EC544	5	6	19'-7"	STR						
EC545	5	6	12'-1"	STR						
EC640	6	4	29'-3"	STR						
EC641	6	4	19'-7"	STR						
EC642	6	4	12'-4"	78	7'-3"	5'-1"	10"			
EMS410	4	135	7'-11"	39	3'-6"	4"	3"	3'-6"		R = 2"
EMS411	4	12	19'-2"	STR						
EMS412	4	12	19'-7"	STR						
EMS413	4	12	16'-1"	STR						R = 2"
EMS414	4	23	7'-11"	39	3'-6"	4"	3"	3'-6"		R = 1"
EMS415	4	10	10'-1 3/4" TO	39	4'-8" TO	2 3/8"	5"	4'-8" TO		VARY A & D EACH BY 1 1/8"(-)
			11'-9 3/4"		5'-6"			5'-6"		R = 1"
EMS416	4	5	10'-1 3/4"	39	4'-8"	2 3/8"	5"	4'-8"		R = 1"
EMS417	4	3	6'-6 1/4"	39	4'-8"	2 3/8"	5"	1' 0 1/2"		R = 1"
EMS418	4	3	5'-0"	STR						
EMS419	4	1	9'-11 1/4"	39	4'-10"	3 1/8"	0"	4'-8 1/2"		R = 1 1/2"
EMS510	5	99	8'-9"	STR						
EMS511	5	99	4'-11"	33	2'-4"	7"	2'-0"		1'-0 1/4"	
EMS512	5	99	11'-4"	41	2'-5"	7'-5"	1'-6"			E = 1/2", H = 1 3/8"
EMS513	5	15	19'-7"	STR						
EMS514	5	15	16'-1"	STR						
EMS515	5	10	27'-3" TO	STR						VARY EACH BY 1/2"
			27'-7 1/2"							
EMS516	5	2	29'-3"	STR						
EMS517	5	3	27'-7"	STR						
EMS518	5	13	1'-8"	STR						
EMS519	5	3	10'-2"	41	1'-9"	7'-5"	1'-0"			E = 3/8", H = 1 1/2"
EMS560	6	3	5'-1"	31	2'-4"	1'-0"	1'-9"			
EMS561	5	3	8'-9"	STR						
EMS562	5	7	1'-6"	STR						DOWEL
EMS610	6	2	10'-2"	41	1'-9"	7'-5"	1'-0"			E = 3/8", H = 1 1/2"
EMS611	6	2	5'-1"	31	2'-4"	1'-0"	1'-9"			
EMS612	6	2	7'-5"	STR						
EMS613	6	2	1'-6"	STR						
EMS614	6	118	8'-11"	31	3'-10"	1'-3"	3'-10"			
EMS1410	14	16	1'-6"	STR						DOWEL

NOTES:

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- FIGURES IN CIRCLE REPRESENT BAR TYPES.
- "J" DIMENSIONS ON 180° HOOKS ARE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- RADIUS, "R" IS TO THE INSIDE OF THE BAR.
- REINFORCEMENT BAR SCHEDULE IS FOR INFORMATION ONLY. VERIFY INFORMATION BEFORE FABRICATION.



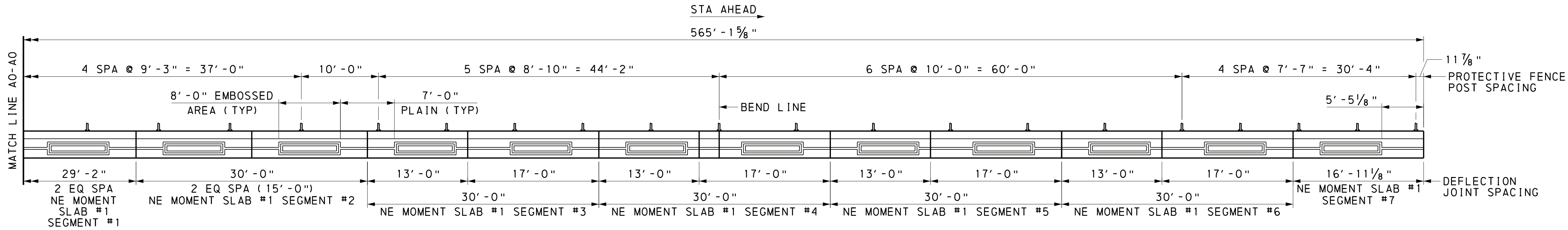
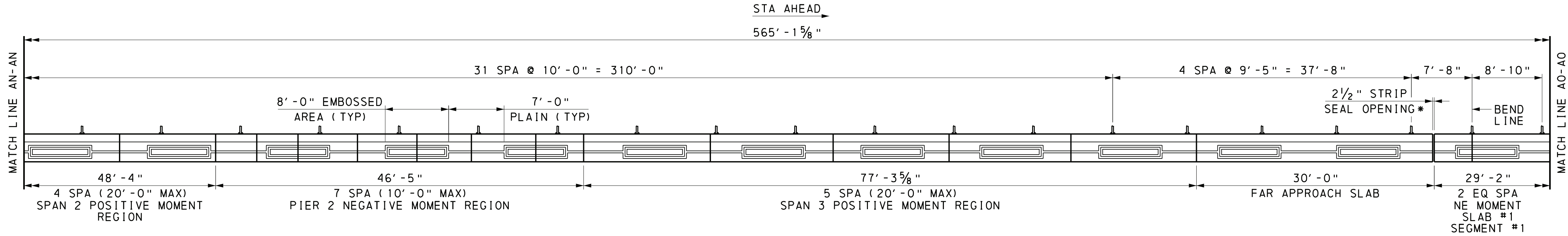
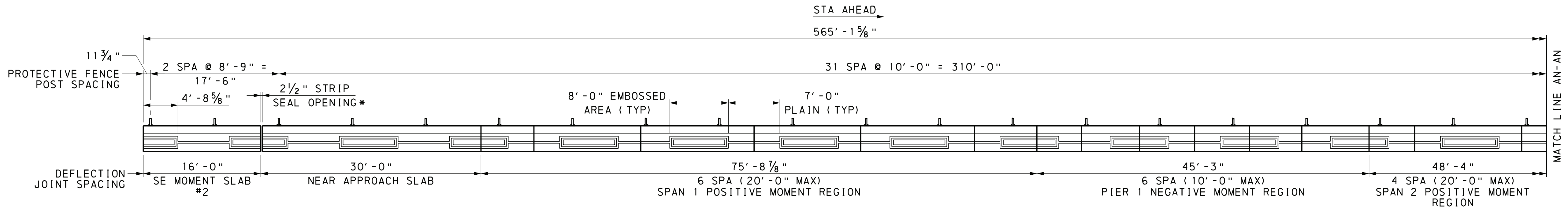
REFERENCES:

GENERAL NOTES
MOMENT SLAB DRAWINGS

SHEETS:

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Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					
SR 3013 PREVIOUSLY KNOWN AS LR 22075 BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416					
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION					
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE FAR MOMENT SLABS REBAR SCHEDULE					
PREPARED BY: HNTB CORPORATION 4507 NORTH FRONT STREET SUITE 300 HARRISBURG, PA 17110					SHEET 80 OF 93
RECOMMENDED 12-6-2022					S-39451



* MEASURED NORMAL TO SR 3013 CONSTR

NOTES:

1. PROVIDE 9" MINIMUM DISTANCE BETWEEN CENTERLINE OF PROTECTIVE FENCE POST AND ADJACENT DEFLECTION JOINTS.

RIGHT BARRIER ELEVATION

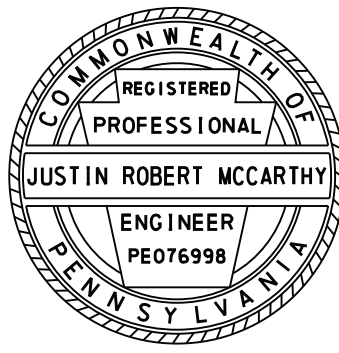
2 0 4 8 FEET

(LOOKING AT OUTSIDE FACE OF BARRIER)
(SIMILAR FOR INTERIOR F-SHAPE BARRIER WITHOUT ARCHITECTURAL SURFACE TREATMENT OR PROTECTIVE FENCE POST SPACING)

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BARRIER ARCHITECTURAL DETAILS 1

RECOMMENDED 12-6-2022

SHEET 81 OF 93

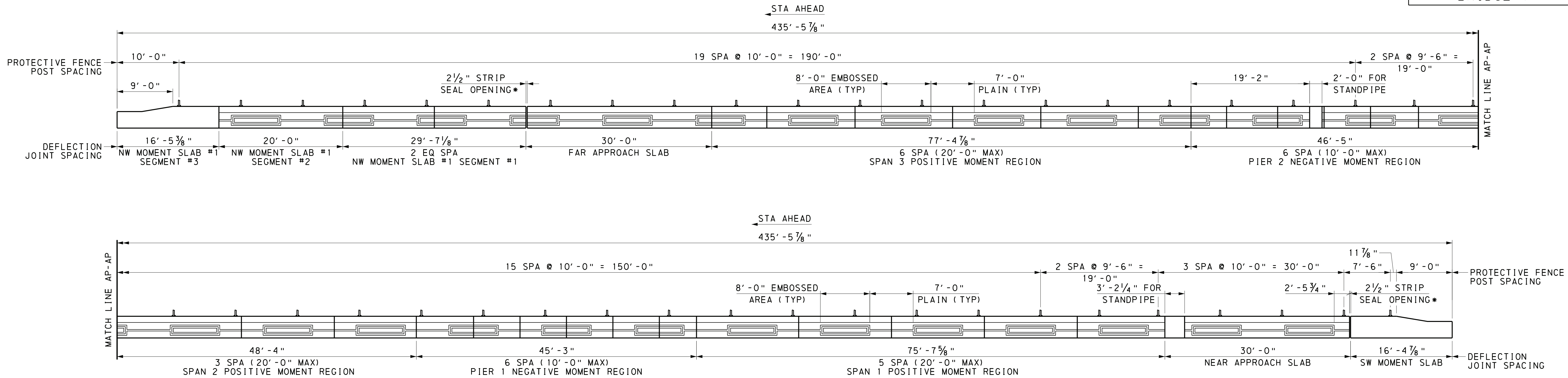
S-39451

REFERENCES:

GENERAL NOTES
BARRIER & SIDEWALK DETAILS
APPROACH SLAB DETAILS
MOMENT SLAB DETAILS
PROTECTIVE FENCE DETAILS

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LEFT BARRIER ELEVATION

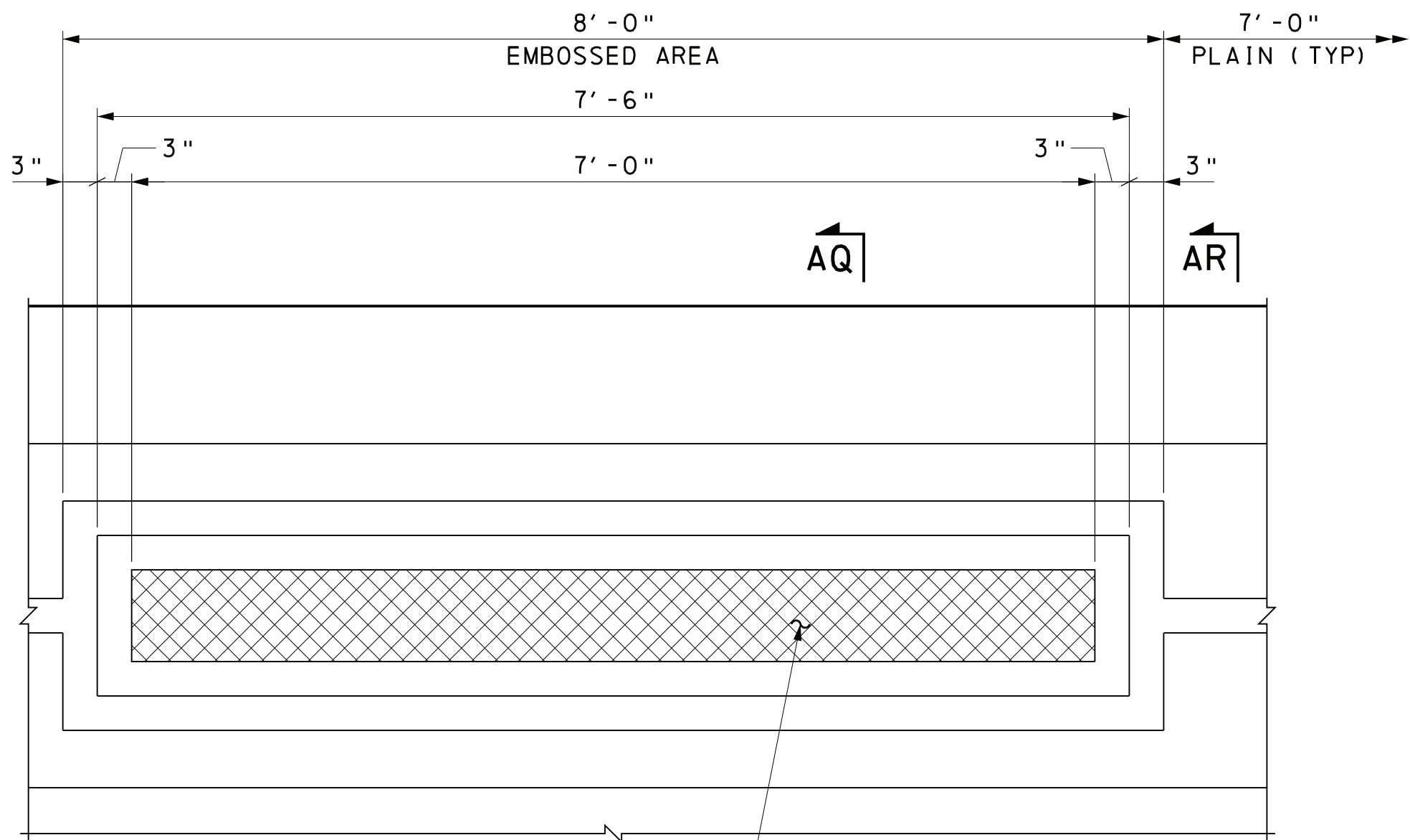
2 0 4 8 FEET

(LOOKING AT OUTSIDE FACE OF BARRIER)

* MEASURED NORMAL TO SR 3013 CONSTR

NOTES:

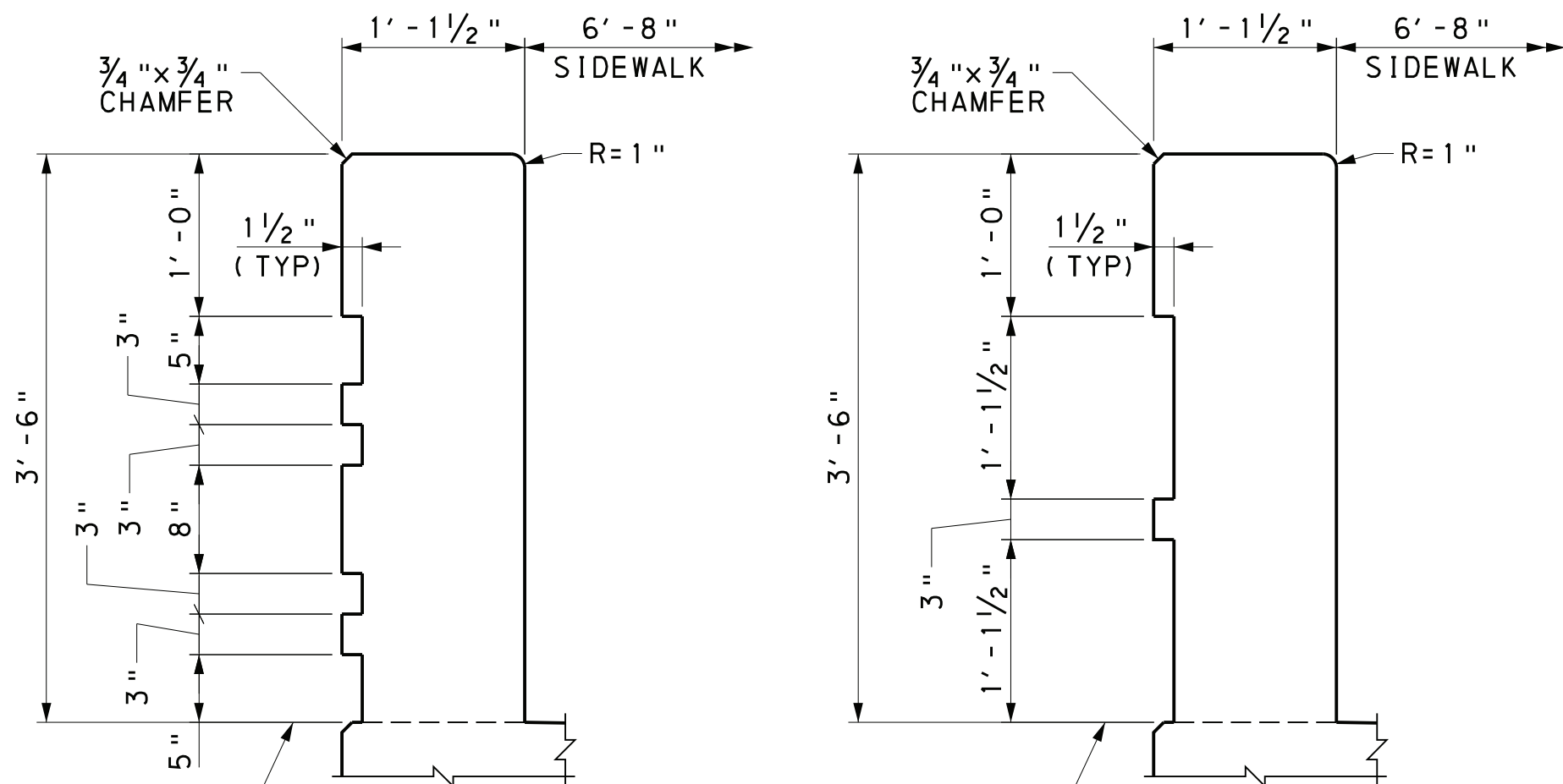
1. PROVIDE 9" MINIMUM DISTANCE BETWEEN CENTERLINE OF PROTECTIVE FENCE POST AND ADJACENT DEFLECTION JOINTS.



LIMITS OF STAINING FOR REINFORCED CONCRETE SURFACES, FEDERAL COLOR #24272, GREEN

EMBOSSED SQUARE DETAIL

6 0 6 12 INCHES



SECTION AQ-AQ

6 0 6 12 INCHES

SECTION AR-AR

6 0 6 12 INCHES

(LEFT VERTICAL WALL BARRIER SHOWN, RIGHT BARRIER SIMILAR BY OPPOSITE HAND)

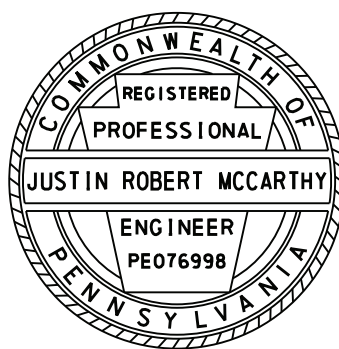
REFERENCES:

- GENERAL NOTES
BARRIER & SIDEWALK DETAILS
APPROACH SLAB DETAILS
MOMENT SLAB DETAILS
PROTECTIVE FENCE DETAILS

SHEETS:

- 4 & 5
52 & 53
63 - 65
67 - 78
83

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4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

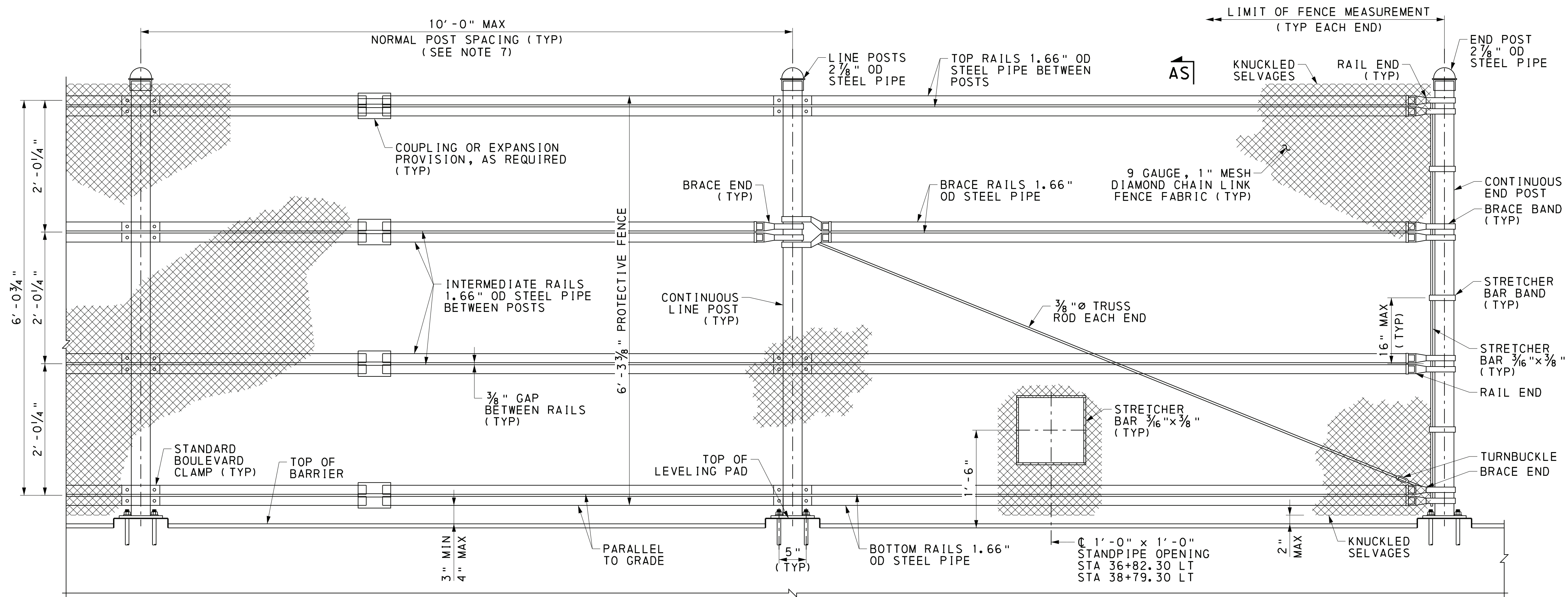
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
BARRIER ARCHITECTURAL DETAILS 2

RECOMMENDED 12-6-2022

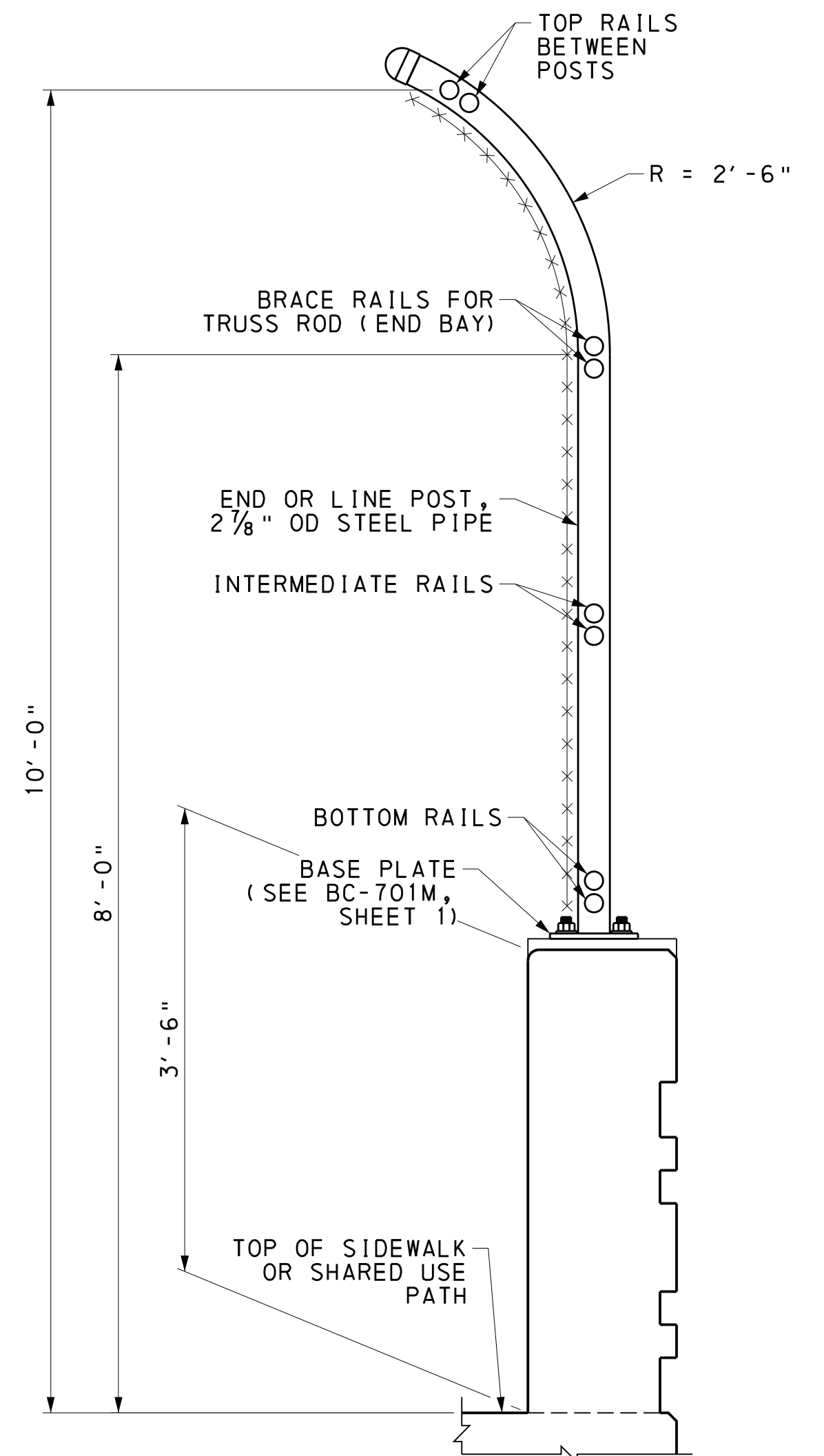
SHEET 82 OF 93

S-39451



PROTECTIVE FENCE ELEVATION

6 0 6 12 INCHES



SECTION AS-AS

6 0 6 12 INCHES

NOTES:

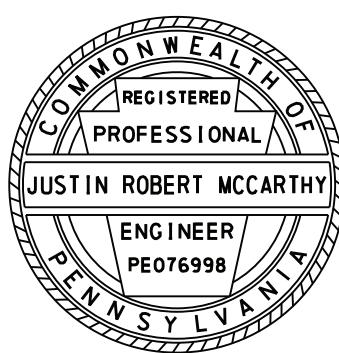
- REFER TO BC-701M FOR ADDITIONAL DETAILS.
- WEST PROTECTIVE FENCE TO INITIATE AFTER SOUTHWEST MOMENT SLAB BARRIER TRANSITION AND TERMINATE PRIOR TO NORTHWEST MOMENT SLAB BARRIER TRANSITION.
- EAST PROTECTIVE FENCE TO INITIATE AT BEGIN SOUTHEAST MOMENT SLAB #2 AND TERMINATE AT END OF NORTHEAST MOMENT SLAB #1.
- INCLUDE ANTI-CLIMB SHIELD AT EACH END (4 TOTAL).
- REFER TO SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- COORDINATE PROTECTIVE FENCE ANCHOR BOLT LOCATIONS WITH PROTECTIVE FENCE FABRICATOR, BARRIER LUMINAIRES, AND JUNCTION BOXES. SEE HIGHWAY LIGHTING ALSO PLAN FOR LOCATIONS OF BARRIER LUMINAIRES AND JUNCTION BOXES.
- REFER TO SHEETS 81 AND 82 FOR PROTECTIVE FENCE POST LOCATIONS AND SPACING.

REFERENCES:

GENERAL PLAN	1
MOMENT SLAB GENERAL PLANS	2
TYPICAL SECTION & LOAD RATINGS	3
GENERAL NOTES	4 & 5
BARRIER & SIDEWALK DETAILS	52 & 53
APPROACH SLAB DETAILS	63 - 65
BARRIER ARCHITECTURAL DETAILS	81 & 82

SHEETS:

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HARRISBURG, PA 17110

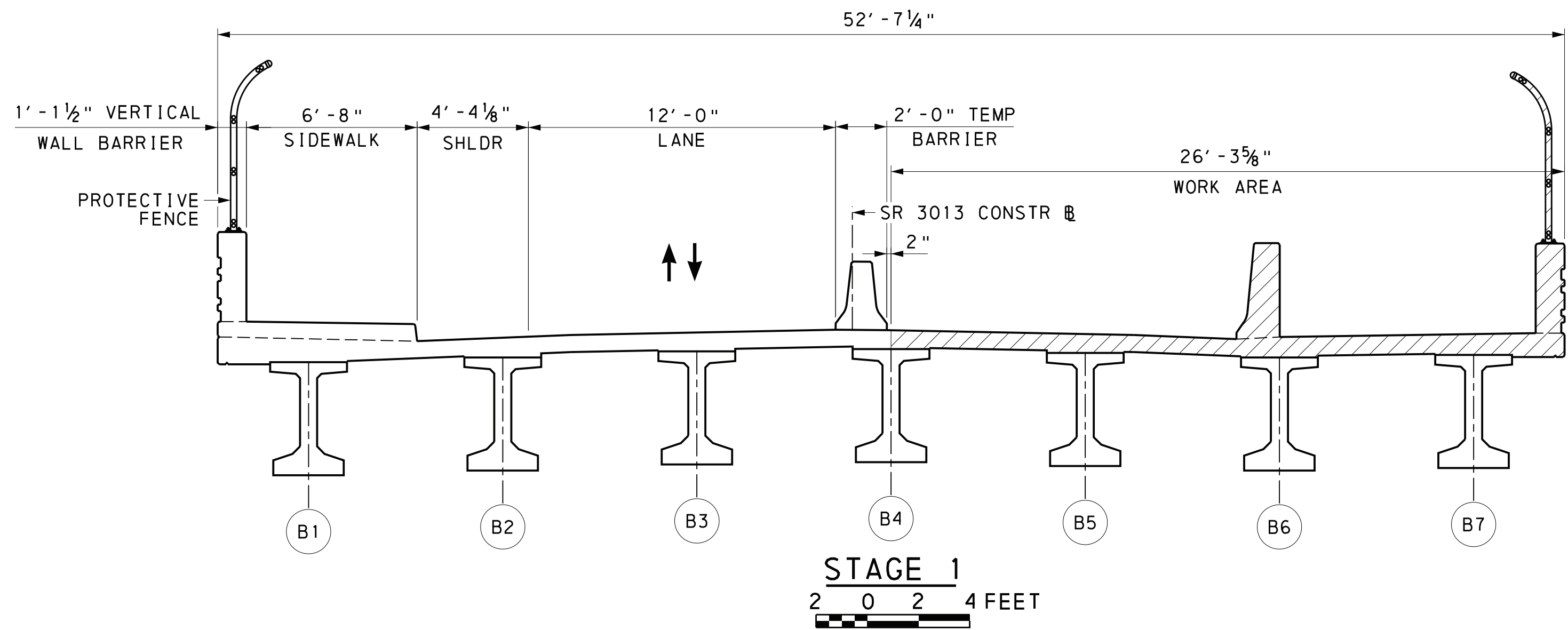
Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEG 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE PS CONCRETE
PA BULB-TEE BEAM BRIDGE
PROTECTIVE FENCE DETAILS

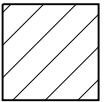
RECOMMENDED 12-6-2022	SHEET 83 OF 93
S-39451	

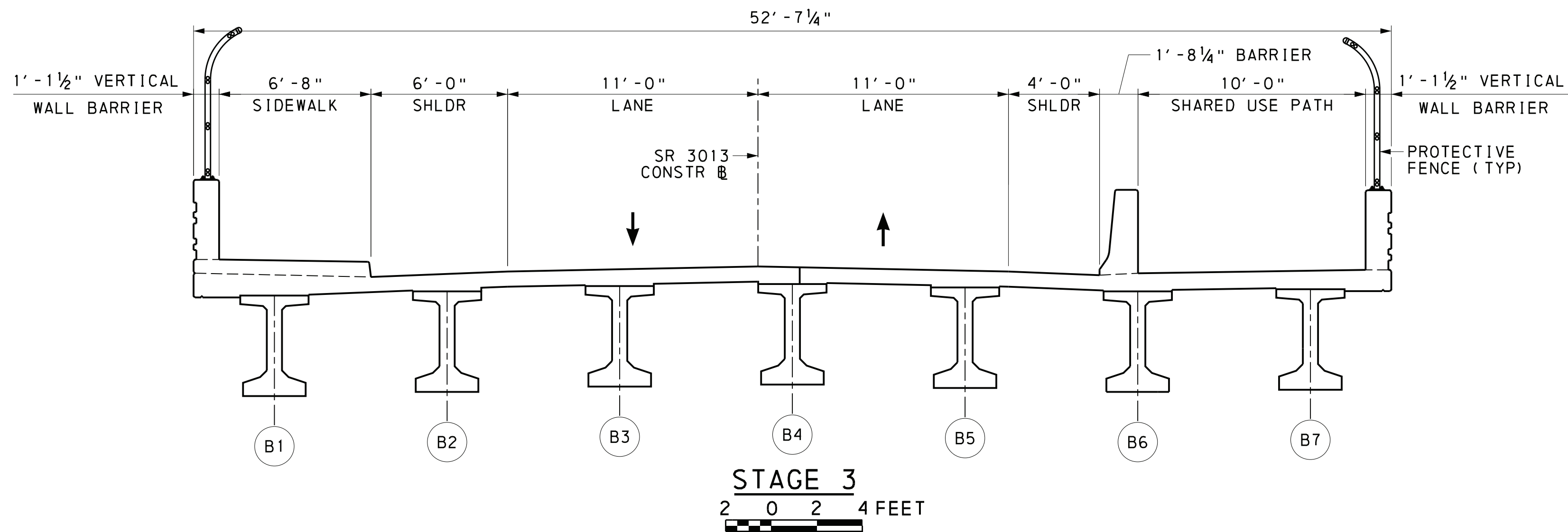
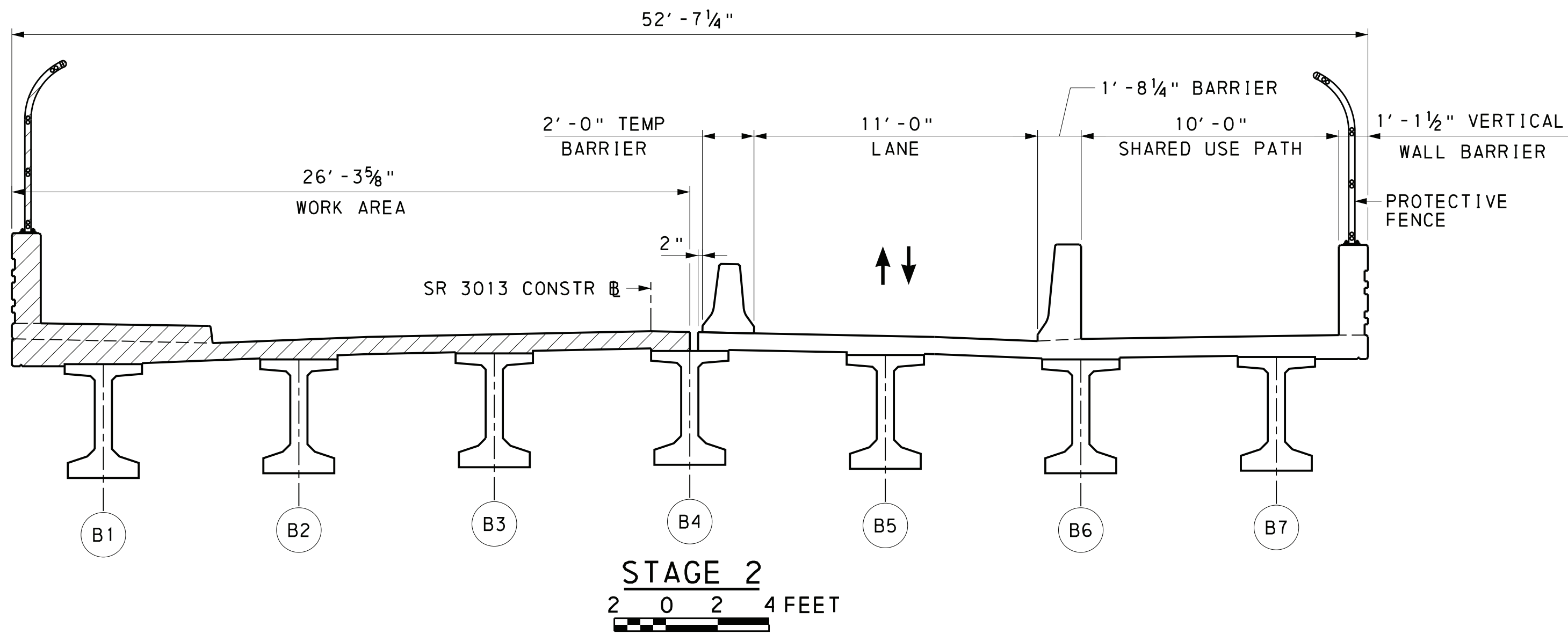


- NOTES:**
- 1. THE INTENT OF THIS SHEET IS TO DESCRIBE AN AVAILABLE STAGING CONCEPT FOR FUTURE REDECKING OF THE BRIDGE. IT IS NOT TO BE USED FOR THE CONSTRUCTION DEPICTED IN THESE PLANS.
 - 2. A FULL CLOSURE WITH A LOCAL DETOUR IS THE PREFERRED ALTERNATIVE COMPARED TO STAGED REDECKING. IF SINGLE LANE/BI-DIRECTIONAL TRAFFIC IS THE SELECTED ALTERNATIVE, THEN A TEMPORARY TRAFFIC SIGNAL IS RECOMMENDED.

- SUGGESTED REDECKING SEQUENCE:**
- STAGE 1: PLACE TRAFFIC (ONE LANE ONLY WITH TRAFFIC CONTROL) ON THE SOUTHBOUND SIDE OF THE BRIDGE. REMOVE AND REPLACE DECK AND BARRIERS ON NORTHBOUND PORTION.
- STAGE 2: PLACE TRAFFIC ON NEWLY CONSTRUCTED NORTHBOUND PORTION OF BRIDGE (ONE LANE ONLY WITH TRAFFIC CONTROL). REMOVE AND REPLACE DECK AND BARRIER ON SOUTHBOUND PORTION.
- STAGE 3: OPEN BRIDGE TO TRAFFIC.

LEGEND:

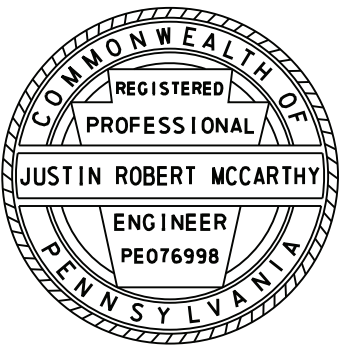
 LIMITS OF REMOVAL & RECONSTRUCTION



Mark	Description	By	Chk' d	Recm' d	Date
REVISIONS					

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

HNTB



PREPARED BY:
HNTB CORPORATION
4507 NORTH FRONT STREET
SUITE 300
HARRISBURG, PA 17110

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION	
DAUPHIN COUNTY SR 0083 SECTION 079 SEG 0020 OFFSET 0291 SR 3013 (29TH STREET) STA 37+78.24 OVER SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY 3-SPAN CONTINUOUS COMPOSITE PS CONCRETE PA BULB-TEE BEAM BRIDGE FUTURE REDECKING PLAN	
RECOMMENDED 12-6-2022	SHEET 84 OF 93 S-39451

GENERAL NOTES

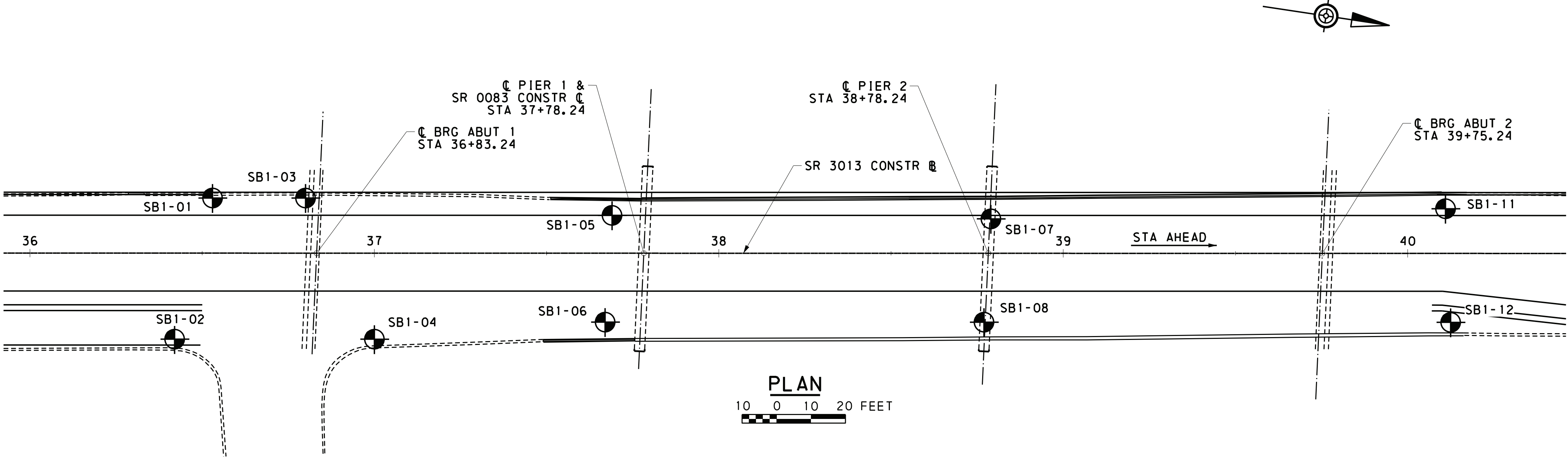
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FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF CONDITIONS AT THE BORING LOCATIONS.

LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BCA BOTTOM OF COARSE AGGREGATE
- BFE BOTTOM OF FOOTING ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION



THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

THE SUBSURFACE EXPLORATION DATA THAT ARE PRESENTED ON THESE DRAWINGS (INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS AND DEPTH OF BORINGS) ACCURATELY REPRESENT THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM AT EACH BORING LOCATION.

GEOTECHNICAL ENGINEER/ENGINEERING GEOLOGIST

5/13/2021
DATE:

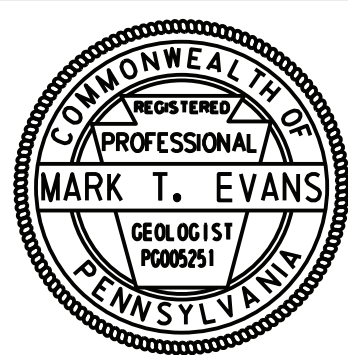
SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEC 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 1

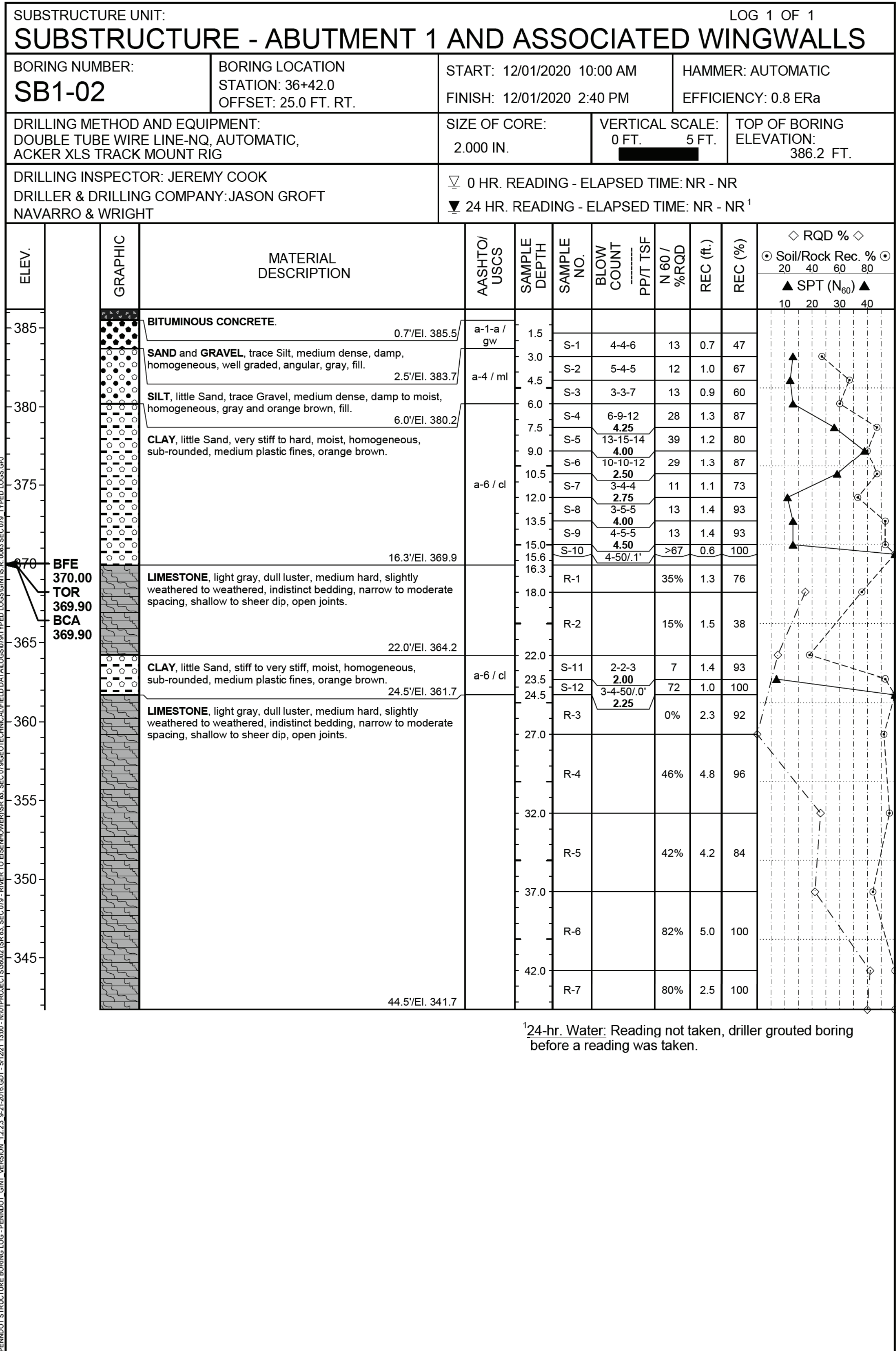
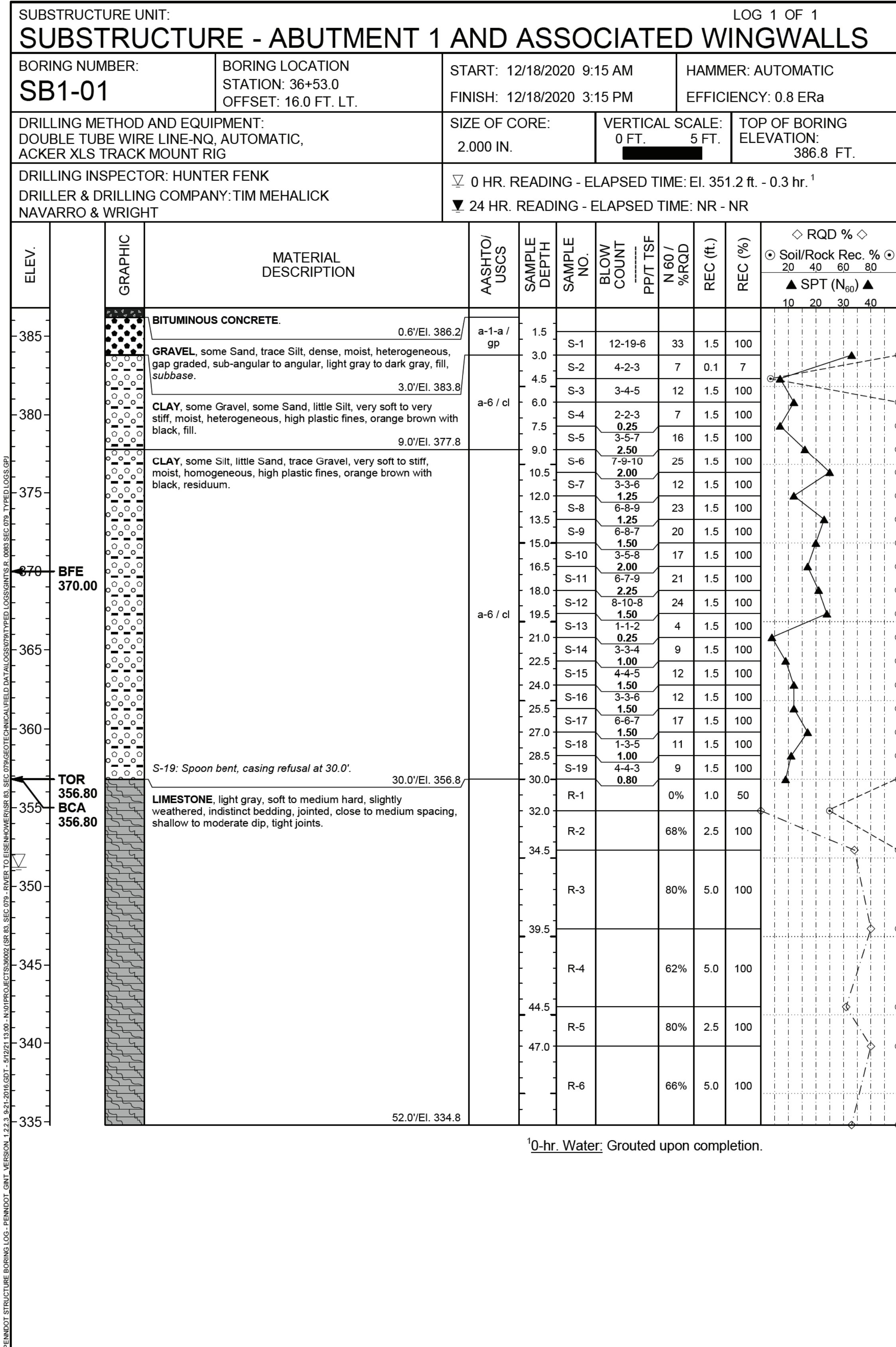
SHEET 86 OF 93

S - 39451



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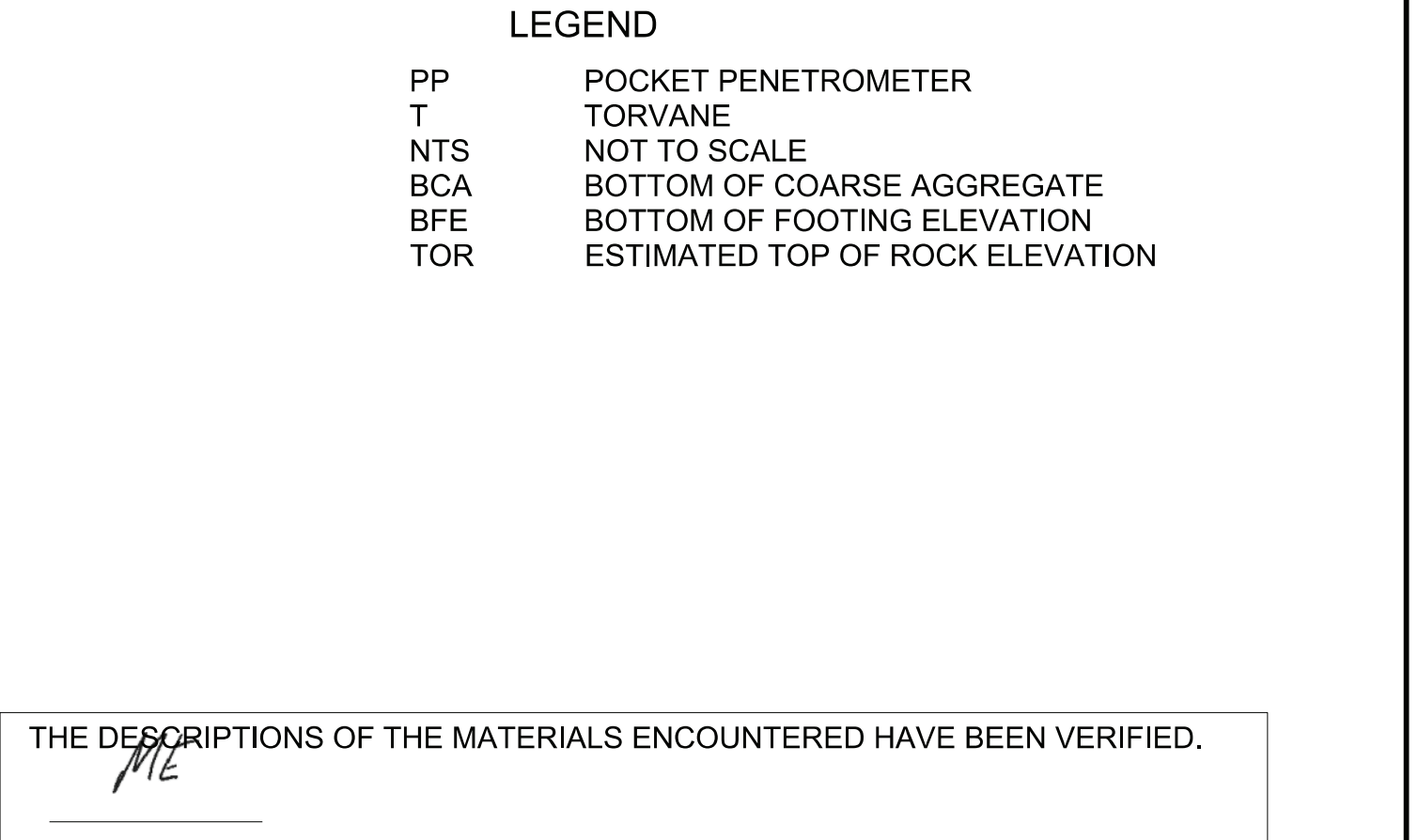
BRIDGE 1

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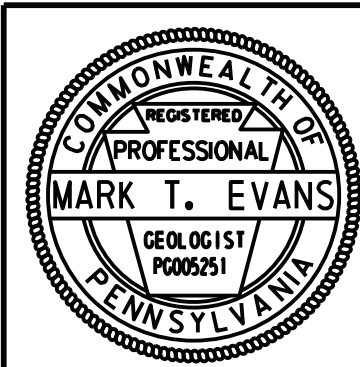
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

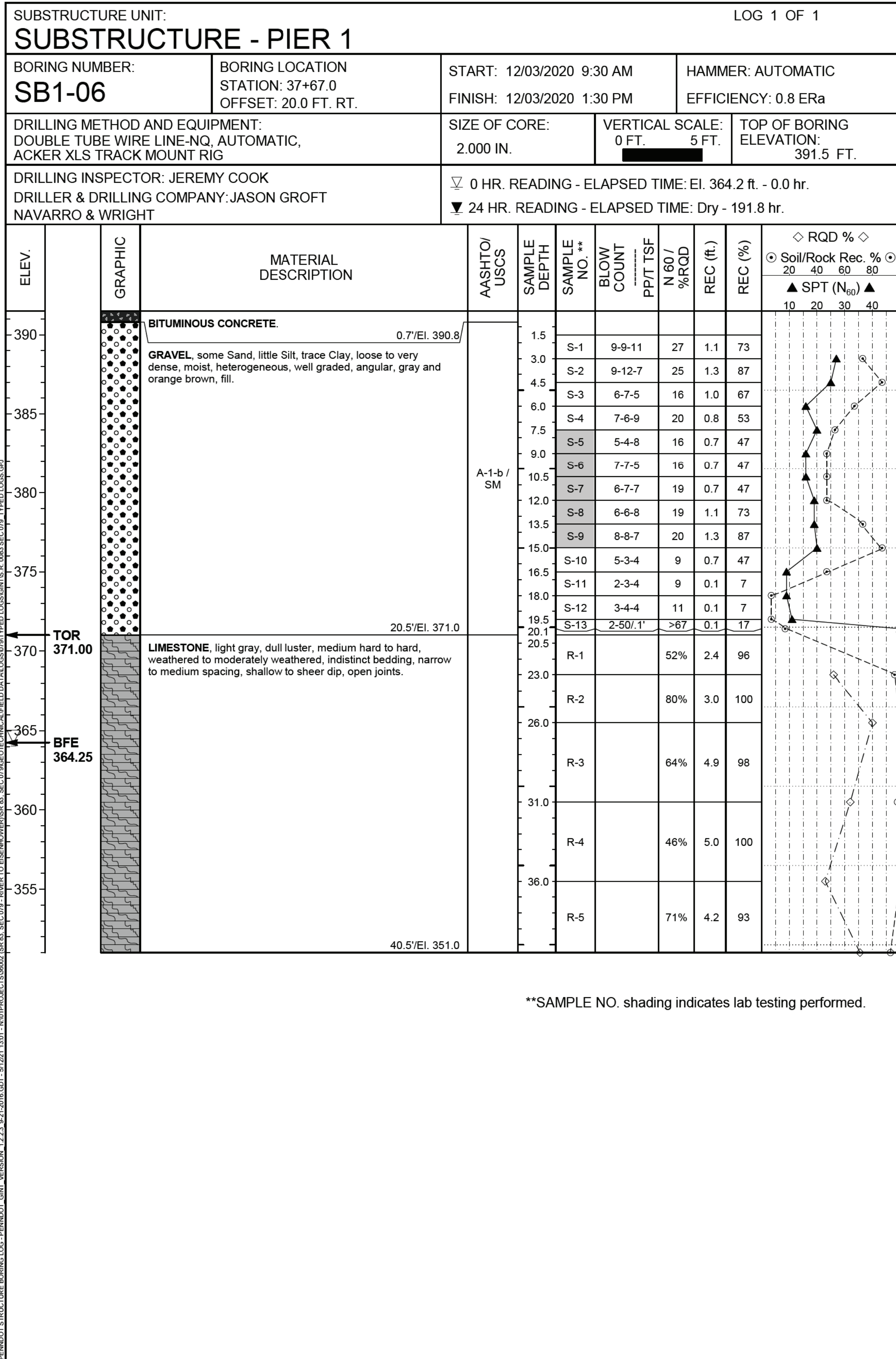
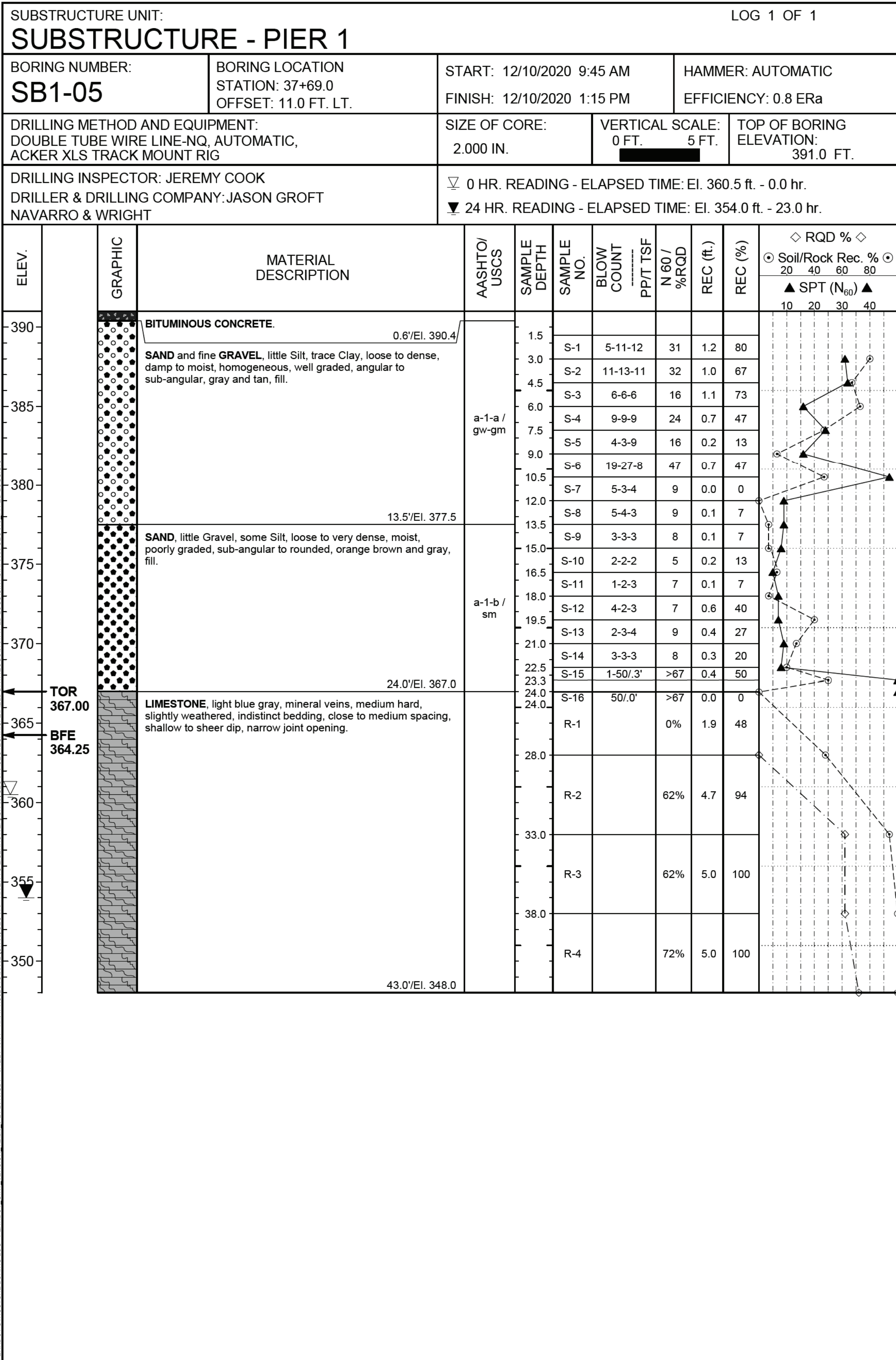
DAUPHIN COUNTY
SR 0083 SECTION 079
SEC 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 2

SHEET 87 OF 93

S - 39451



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**SAMPLE NO. shading indicates lab testing performed.

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LEGEND

- PP POCKET PENETROMETER
T TORVANE
NTS NOT TO SCALE
BCA BOTTOM OF COARSE AGGREGATE
BFE BOTTOM OF FOOTING ELEVATION
TOR ESTIMATED TOP OF ROCK ELEVATION

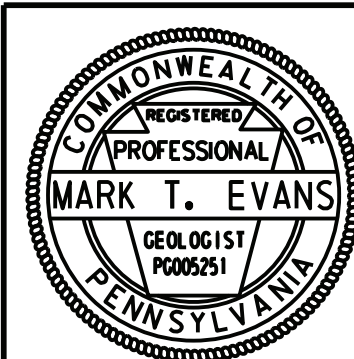
THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-2013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

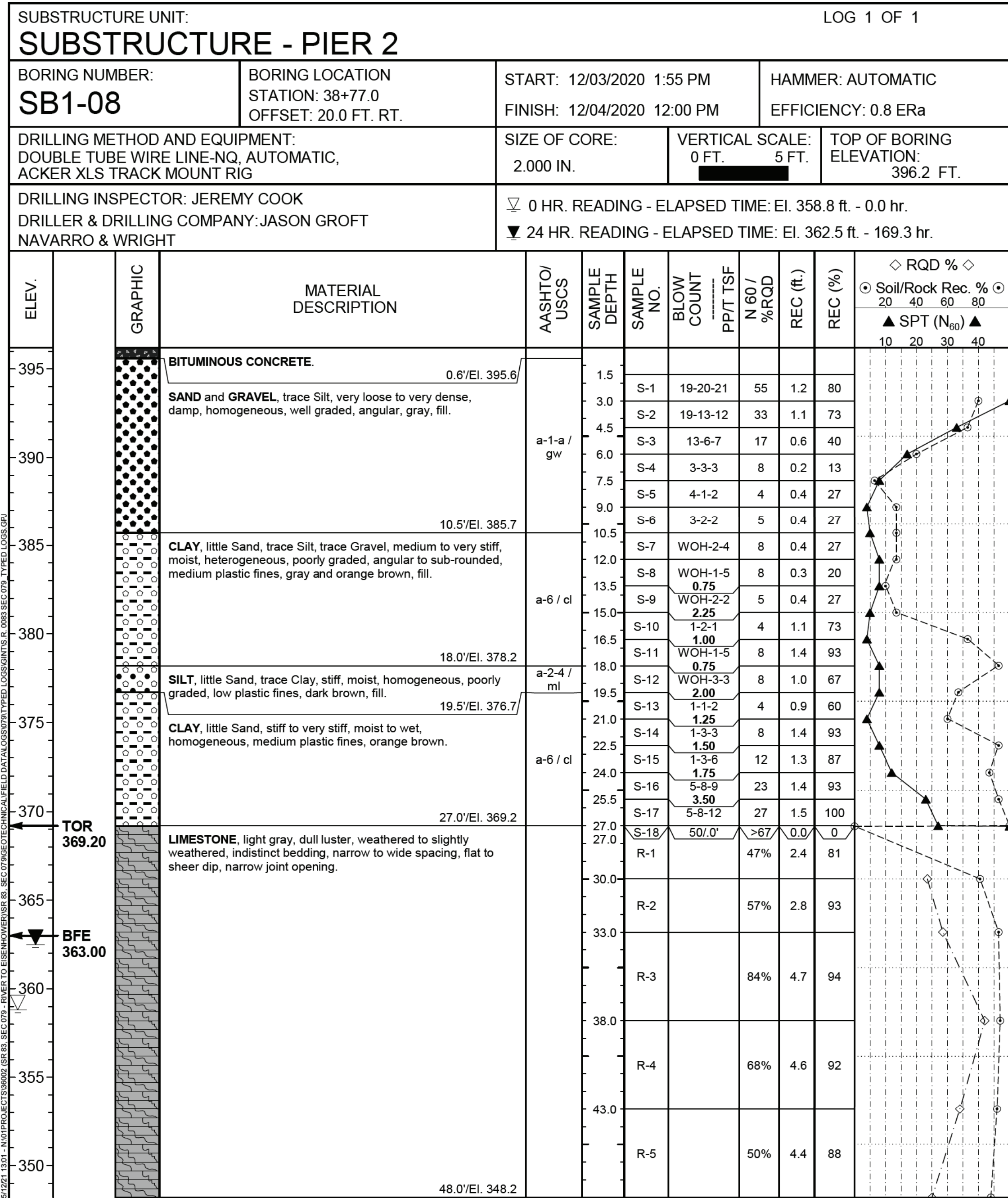
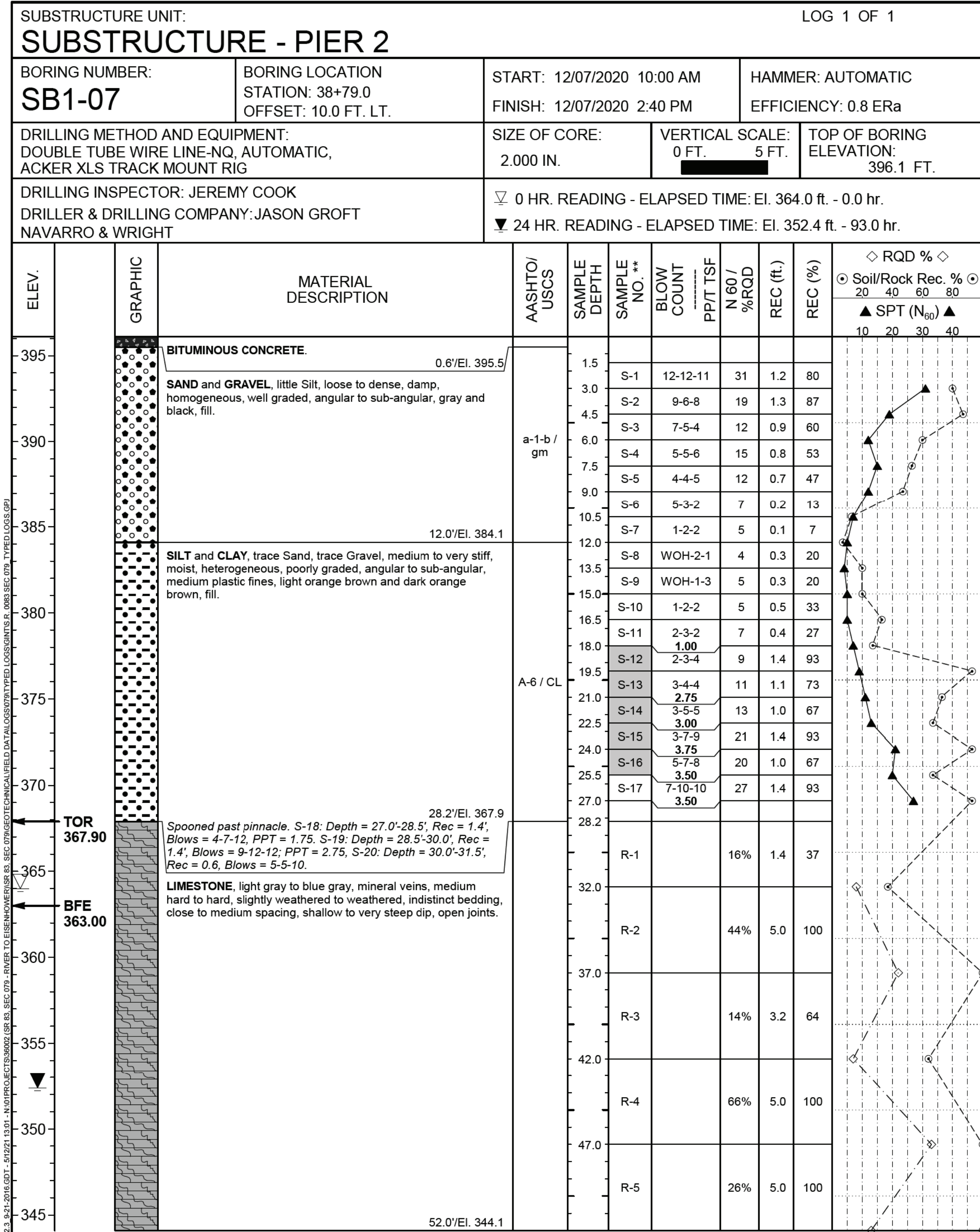
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 4



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BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

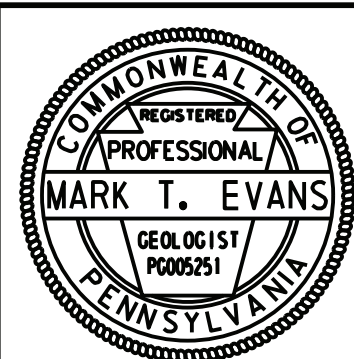
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEC 0020 OFFSET 0291

SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 5

SHEET 90 OF 93

S - 39451



GENERAL NOTES

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T	TORVANE
NTS	NOT TO SCALE
BCA	BOTTOM OF COARSE AGGREGATE
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
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3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 6

SHEET 91 OF 93

S - 39451

<

LOG 1 OF 2

SUBSTRUCTURE - ABUTMENT 2 AND ASSOCIATED WINGWALLS

BORING NUMBER:
SB1-12

BORING LOCATION
STATION: 40+12.5
OFFSET: 20.0 FT. RT.

START: 12/08/2020 9:00 AM
FINISH: 12/08/2020 4:15 PM

HAMMER: AUTOMATIC
EFFICIENCY: 0.8 ErA

DRILLING METHOD AND EQUIPMENT:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC,
ACKER XLS TRACK MOUNT RIG

SIZE OF CORE:
2.000 IN.

VERTICAL SCALE:
0 FT. 5 FT.

TOP OF BORING
ELEVATION:
398.8 FT.

DRILLING INSPECTOR: JEREMY COOK
DRILLER & DRILLING COMPANY: JASON GROFT
NAVARRO & WRIGHT

0 HR. READING - ELAPSED TIME: El. 367.6 ft. - 0.0 hr.
24 HR. READING - ELAPSED TIME: El. 350.8 ft. - 69.2 hr.

ELEV.

GRAPHIC

MATERIAL DESCRIPTION

AASHTO/
USCS

SAMPLE
DEPTH

SAMPLE
NO. #

BLOW
COUNT

PP/T TSF
N 60 /
%RQD

REC (ft.)

REC (%)

◇ RQD % ◇

⊙ Soil/Rock Rec. %
20 40 60 80

▲ SPT (N₆₀) ▲
10 20 30 40

395

BITUMINOUS CONCRETE.
0.6'/El. 398.2

a-1-b / gm

1.5

S-1

12-13-11

32

1.2

80

390

SAND and GRAVEL, little Silt, medium dense, damp, homogeneous, well graded, angular to sub-angular, dark gray and light gray, fill.
4.0'/El. 394.8

a-1-b / sm

3.0

S-2

8-7-7

19

1.5

100

385

SILT, some Sand, little Gravel, medium dense to very dense, dry to moist, heterogeneous, poorly graded, angular, tan and orange brown, fill.
12.0'/El. 386.8

4.5

S-3

9-9-7

21

1.4

93

380

CEMENT CONCRETE.
13.0'/El. 385.8

6.0

S-4

5-6-8

19

1.3

87

375

SILT and CLAY, little Sand, trace Gravel, medium dense to dense, moist, homogeneous, poorly graded, angular to sub-angular, low plastic fines, orange brown and tan, fill.
19.5

A-7-6 / CL

7.5

S-5

9-11-12

31

1.4

93

370

30.0'/El. 368.8

10.5

S-6

11-6-10

21

1.2

80

365

CLAY and SILT, trace Sand, trace Gravel, very stiff, damp, homogeneous, low plastic fines, orange brown.
37.5'/El. 361.3

A-7-6 / CL

11.0

S-7

23-50/0'

>67

0.4

80

360

LIMESTONE, light gray to blue gray, mineral veins, medium hard, slightly weathered to highly weathered, indistinct bedding, close to wide spacing, shallow to very steep dip, open joints.
62.0'/El. 336.8

12.0

S-8

50/0'

>67

0.0

66

355

13.5

S-9

4-6-5

15

1.1

73

350

15.0

S-10

5-3-6

12

0.7

47

345

16.5

S-11

3-5-3

11

1.0

67

340

18.0

S-12

3-6-4

13

1.0

67

335

19.5

S-13

4-3-5

11

1.1

73

330

21.0

S-14

3-4-4

11

1.4

93

325

22.5

S-15

4-7-9

21

1.3

87

320

24.0

S-16

6-7-19

35

1.3

87

315

25.5

S-17

5-10-13

31

1.2

80

310

27.0

S-18

8-13-14

36

1.3

87

305

28.5

S-19

12-15-17

43

1.4

93

300

30.0

S-20

9-10-12

29

1.2

80

295

31.5

S-21

4-8-9

23

1.4

93

290

33.0

S-22

8-8-10

24

1.3

87

285

34.5

S-23

6-8-14
3.50

29

1.5

100

280

36.0

S-24

5-8-10
2.50

24

1.5

100

275

37.5

S-25

50/0'

>67

0.0

0

270

R-2

43%

4.3

96

265

R-3

22%

2.5

50

260

R-4

0%

2.5

50

255

R-5

52%

4.9

98

250

R-6

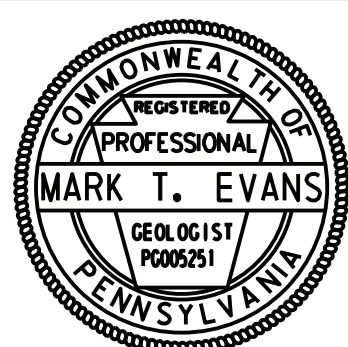
34%

4.1

82

245

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LABORATORY TEST SUMMARY - SOILS

					% GRAIN SIZE DISTRIBUTION (AASHTO)							CLASSIFICATION			PLASTICITY PARAMETERS			SHEAR STRENGTH					
BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	NATURAL MOISTURE %	GRAVEL %	SAND %	COARSE SAND %	FINE SAND %	FINES %	SILT %	CLAY %	AASHTO	USCS	S.G.	LIQUID LIMIT	PLASTIC LIMIT	P. I.	C (TSF)	ϕ (DEG.)	C' (TSF)	ϕ' (DEG.)	TEST METHOD	
SB1-04	37+00.0 23 ft. RT.	S-11 to 15	16.5 to 24.0	30.7	2.7	10.1	4.3	5.8	87.2	40.8	46.3	A-7-6	CL		49	25	24						
SB1-06	37+67.0 20 ft. RT.	S-5 to 9	7.5 to 15.0	9.9	48.5	32.0	19.5	12.6	19.3	14.4	4.9	A-1-b	SM										
SB1-07	38+79.0 10 ft. LT.	S-12 to 16	18.0 to 25.5	21.6	1.6	8.9	3.1	5.8	89.5	51.1	38.5	A-6	CL		39	20	19						
SB1-12	40+12.5 20 ft. RT.	S-15 to 19	22.5 to 30.0	20.2	3.0	15.7	7.4	8.3	81.4	43.0	38.3	A-7-6	CL		41	22	19						
SB1-12	40+12.5 20 ft. RT.	S-20 to 24	30.0 to 37.5	28.8	0.6	6.8	2.5	4.3	92.7	41.8	50.9	A-7-6	CL		47	24	23	0.235	24.5			DIR. SHR.-CD	

GENERAL NOTES

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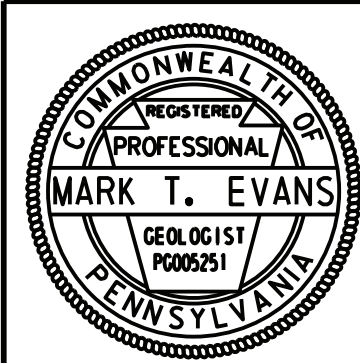
- PP
T
NTS
BCA
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TOR
- POCKET PENETROMETER
TORVANE
NOT TO SCALE
BOTTOM OF COARSE AGGREGATE
BOTTOM OF FOOTING ELEVATION
ESTIMATED TOP OF ROCK ELEVATION

LABORATORY TEST SUMMARY - ELECTROCHEMICAL

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	SAMPLE SOURCE	pH	MINIMUM RESISTIVITY (ohm-cm)	CHLORIDE CONTENT (ppm)	SULFATE CONTENT (ppm)	HIGH ORGANIC CONTENT?	CORROSIVE FOR CONCRETE?	CORROSIVE FOR STEEL?
SB1-04	37+00.0 23 ft. RT.	S-11 to 15	16.5 to 24.0	GROUNDWATER SOIL	5.3	2,821	394	22	No	No	No pH,Resist.w/Chlor.
SB1-06	37+67.0 20 ft. RT.	S-5 to 9	7.5 to 15.0	GROUNDWATER SOIL	7.9	3,818	105	18	No	No	No Resist.w/Chlor.
SB1-07	38+79.0 10 ft. LT.	S-12 to 16	18.0 to 25.5	GROUNDWATER SOIL	6.0	2,505	701	275	No	No	No Resist.w/Sulf.,Resist.w/Chlor.
SB1-12	40+12.5 20 ft. RT.	S-15 to 19	22.5 to 30.0	GROUNDWATER SOIL	6.3	2,631	615	14	No	No	No Resist.w/Chlor.

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SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID:22-3013-0020-0291 MPMS/ECMS PROJ:97828 BRKEY:67416



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3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 7

LABORATORY TEST SUMMARY - ROCK CORE

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	TEST	STRENGTH	JAR SLAKE TEST PERFORMED?	SLAKE DURABILITY INDEX & TYPE	ROCK RECOVERY %	RQD %	BEDROCK LITHOLOGY	STRATIGRAPHIC UNIT
SB1-02	36+42.0 25 ft. RT.	R-2	18.0 to 18.6	UNCONFINED COMPRESSIVE TEST	14910.3 PSI / 1,073.5 TSF	NO		38	15	LIMESTONE	
SB1-02	36+42.0 25 ft. RT.	R-4	27.0 to 27.7	UNCONFINED COMPRESSIVE TEST	12698.6 PSI / 914.3 TSF	NO		96	46	LIMESTONE	
SB1-03	36+80.0 16 ft. LT.	R-2	35.5 to 36.0	UNCONFINED COMPRESSIVE TEST	16568.0 PSI / 1,192.9 TSF	NO		96	24	LIMESTONE	
SB1-03	36+80.0 16 ft. LT.	R-3	38.0 to 38.7	UNCONFINED COMPRESSIVE TEST	10265.6 PSI / 739.1 TSF	NO		100	76	LIMESTONE	
SB1-04	37+00.0 23 ft. RT.	R-2	32.4 to 33.0	UNCONFINED COMPRESSIVE TEST	16625.1 PSI / 1,197.0 TSF	NO		64	26	LIMESTONE	
SB1-04	37+00.0 23 ft. RT.	R-3	37.5 to 38.0	UNCONFINED COMPRESSIVE TEST	10866.9 PSI / 782.4 TSF	NO		96	50	LIMESTONE	
SB1-05	37+69.0 11 ft. LT.	R-2	29.0 to 29.5	UNCONFINED COMPRESSIVE TEST	11240.0 PSI / 809.3 TSF	NO		94	62	LIMESTONE	
SB1-05	37+69.0 11 ft. LT.	R-2	29.5 to 30.0	UNCONFINED COMPRESSIVE TEST	13546.3 PSI / 975.3 TSF	NO		94	62	LIMESTONE	
SB1-06	37+67.0 20 ft. RT.	R-3	26.0 to 27.0	UNCONFINED COMPRESSIVE TEST	15290.3 PSI / 1,100.9 TSF	NO		98	64	LIMESTONE	
SB1-06	37+67.0 20 ft. RT.	R-4	31.2 to 31.9	UNCONFINED COMPRESSIVE TEST	12523.2 PSI / 901.7 TSF	NO		100	46	LIMESTONE	
SB1-07	38+79.0 10 ft. LT.	R-2	32.0 to 32.5	UNCONFINED COMPRESSIVE TEST	21193.9 PSI / 1,526.0 TSF	NO		100	44	LIMESTONE	
SB1-07	38+79.0 10 ft. LT.	R-2	32.8 to 33.3	UNCONFINED COMPRESSIVE TEST	10085.1 PSI / 726.1 TSF	NO		100	44	LIMESTONE	
SB1-08	38+77.0 20 ft. RT.	R-2	30.0 to 31.2	UNCONFINED COMPRESSIVE TEST	12155.3 PSI / 875.2 TSF	NO		93	57	LIMESTONE	
SB1-08	38+77.0 20 ft. RT.	R-3	34.1 to 35.2	UNCONFINED COMPRESSIVE TEST	17207.7 PSI / 1,239.0 TSF	NO		94	84	LIMESTONE	
SB1-11	40+11.0 13 ft. LT.	R-1	37.0 to 37.9	UNCONFINED COMPRESSIVE TEST	18362.5 PSI / 1,322.1 TSF	NO		88	48	LIMESTONE	
SB1-11	40+11.0 13 ft. LT.	R-1	37.9 to 38.9	UNCONFINED COMPRESSIVE TEST	14809.6 PSI / 1,066.3 TSF	NO		88	48	LIMESTONE	
SB1-12	40+12.5 20 ft. RT.	R-2	40.4 to 41.1	UNCONFINED COMPRESSIVE TEST	10117.9 PSI / 728.5 TSF	NO		96	43	LIMESTONE	
SB1-12	40+12.5 20 ft. RT.	R-2	41.1 to 41.7	UNCONFINED COMPRESSIVE TEST	11807.5 PSI / 850.1 TSF	NO		96	43	LIMESTONE	

GENERAL NOTES

THIS SHEET IS INCLUDED FOR THE CONVENIENCE OF THE DEPARTMENT. REFER TO PUBLICATION 408 SECTION 102.05 FOR FURTHER INFORMATION.

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS AND DATES INDICATED. SUBSURFACE CONDITIONS MAY DIFFER FROM THE CONDITIONS REPORTED AT THE SPECIFIC LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF CONDITIONS AT THE BORING LOCATIONS.

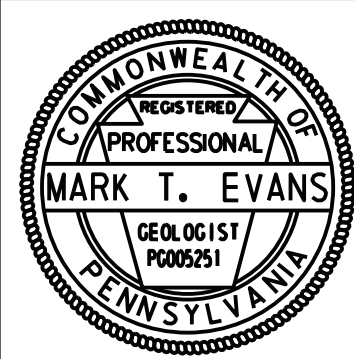
LEGEND

- PP
- T
- NTS
- BCA
- BFE
- TOR
- POCKET PENETROMETER
- TORVANE
- NOT TO SCALE
- BOTTOM OF COARSE AGGREGATE
- BOTTOM OF FOOTING ELEVATION
- ESTIMATED TOP OF ROCK ELEVATION

SR 3013 PREVIOUSLY KNOWN AS LR 22075
BMS STR ID: 22-3013-0020-0291 MPMS/ECMS PROJ: 97828 BRKEY: 67416

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
SR 0083 SECTION 079
SEC 0020 OFFSET 0291
SR 3013 (29TH STREET) STA 37+78.24 OVER
SR 0083 & NORFOLK SOUTHERN RAILWAY COMPANY
3-SPAN CONTINUOUS COMPOSITE P/S CONCRETE
PA BULB-TEE BEAM BRIDGE
STRUCTURE BORINGS - 8



SHEET INDEX BLOCK	
DESCRIPTION	SHEET
INDEX MAP	1-3
GENERAL DETAILS	4-7
SIGNING TABS	8-33
PAVEMENT MARKING AND DELINEATION TABS	34-75
PLAN SHEETS	76-112
SIGN STRUCTURE PLANS	113-118
SIGN FABRICATION DETAILS	119-125

LEGEND

○ - PLAN

NOTES

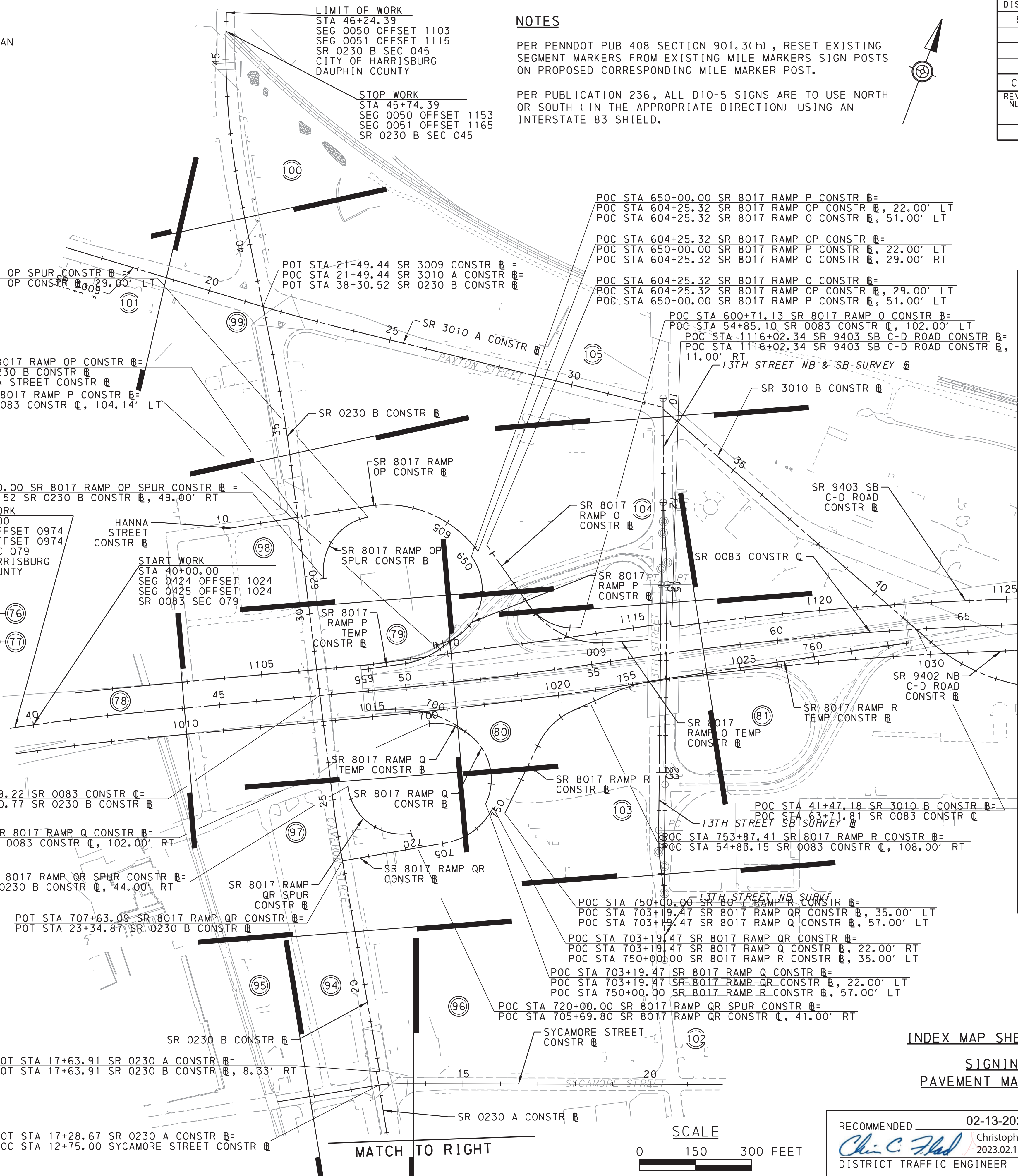
PER PENNDOT PUB 408 SECTION 901.3(h), RESET EXISTING SEGMENT MARKERS FROM EXISTING MILE MARKERS SIGN POSTS ON PROPOSED CORRESPONDING MILE MARKER POST.

PER PUBLICATION 236, ALL D10-5 SIGNS ARE TO USE NORTH OR SOUTH (IN THE APPROPRIATE DIRECTION) USING AN INTERSTATE 83 SHIELD.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	1 OF 125
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH				
REVISION NUMBER	REVISIONS		DATE	BY

PLAN SHEETS LEGEND

- W/4" - WHITE LINE/WIDTH
- W/6" - WHITE LINE/WIDTH
- W/8" - WHITE LINE/WIDTH
- W/24" - WHITE LINE/WIDTH
- BW/6" - BROKEN WHITE LANE LINE/WIDTH
- AW/8" - AUXILIARY WHITE LANE LINE/WIDTH
- DEW/6" - DOTTED EXTENSION WHITE LINE/WIDTH
- DEY/4" - DOTTED EXTENSION YELLOW LINE/WIDTH
- Y/4" - YELLOW LINE/WIDTH
- Y/24" - YELLOW LINE/WIDTH
- DY/4" - DOUBLE YELLOW LINE/WIDTH
- BY/4" - BROKEN YELLOW LINE/WIDTH
- SNOWPLOWABLE RAISED PAVEMENT MARKER
- TWO WAY HOLDER WITH REFLECTOR (W/B)
- SNOWPLOWABLE RAISED PAVEMENT MARKER
- TWO WAY HOLDER WITH REFLECTOR (W/R)
- SNOWPLOWABLE RAISED PAVEMENT MARKER
- TWO WAY HOLDER WITH REFLECTOR (Y/R)
- SNOWPLOWABLE RAISED PAVEMENT MARKER
- TWO WAY HOLDER WITH REFLECTOR (Y/B)
- SNOWPLOWABLE RAISED PAVEMENT MARKER
- TWO WAY HOLDER WITH REFLECTOR (Y/Y)
- FLEXIBLE DELINEATOR POST, GROUND-MOUNT
- TYPE GM-1, RED POST WITH WHITE SHEETING
- FLEXIBLE DELINEATOR POST, GROUND-MOUNT
- TYPE GM-2, WHITE POST WITH WHITE/BLANK SHEETING
- FLEXIBLE DELINEATOR POST, GROUND-MOUNT
- TYPE GM-2, YELLOW POST WITH YELLOW/BLANK SHEETING
- FLEXIBLE DELINEATOR POST, GROUND-MOUNT
- TYPE GM-2, YELLOW POST WITH YELLOW/RED SHEETING
- FLEXIBLE DELINEATOR POST, GROUND-MOUNT
- TYPE GM-2, WHITE POST WITH WHITE/RED SHEETING
- FLEXIBLE DELINEATOR POST, SURFACE-MOUNT
- TYPE SM-2, WHITE POST WITH WHITE/BLANK SHEETING
- FLEXIBLE DELINEATOR POST, SURFACE-MOUNT
- TYPE SM-2, YELLOW POST WITH YELLOW/RED SHEETING
- FLEXIBLE DELINEATOR POST, SURFACE-MOUNT
- TYPE SM-2, YELLOW POST WITH YELLOW/BLANK SHEETING
- TYPE B AND D W/R GUIDE RAIL MOUNT
- OR TYPE R W/R BARRIER MOUNT
- TYPE B AND D W/B GUIDE RAIL MOUNT
- OR TYPE R W/B BARRIER MOUNT
- BARRIER MOUNTED DELINEATOR, SIDE-MOUNT TYPE O, (Y/B)
- BARRIER MOUNTED DELINEATOR, SIDE-MOUNT TYPE R, (Y/R)
- BARRIER MOUNTED DELINEATOR, SIDE-MOUNT TYPE R, (Y/Y)
- PROPOSED GROUND MOUNTED SIGN
- PROPOSED HIGHWAY LIGHTING
- PROPOSED UNDERPASS LIGHTING
- DETAIL PLAN SHEET/ FAB SIGN NUMBER/ MOUNTING
- PROPOSED OVERHEAD STRUCTURE MOUNTED SIGN
- EXISTING GROUND MOUNTED SIGN
- TRAFFIC FLOW ARROW
- BIKE LANE



MATCH TO INDEX MAP SHEET 2 OF 3

MATCH TO LEFT

START WORK
STA 07+42.42
SEG 0070 OFFSET 2509
SEG 0071 OFFSET 2516
SR 0230 A SEC 045

LIMIT OF WORK
STA 07+02.06
SEG 0080 OFFSET 0000
SEG 0081 OFFSET 0000
SR 0230 A SEC 045
CITY OF HARRISBURG
DAUPHIN COUNTY

INDEX MAP SHEET 1 OF 3

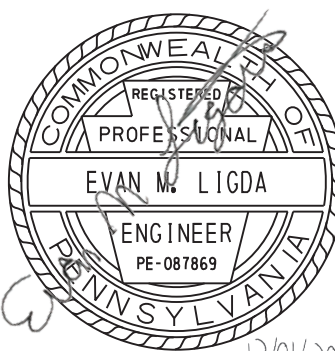
SIGNING AND
PAVEMENT MARKING PLAN

SCALE

0 150 300 FEET

RECOMMENDED 02-13-2023
Christopher C. Flad, P.E.
2023.02.13 15:22:23 -05'00'
DISTRICT TRAFFIC ENGINEER

PREPARED BY:
JOHNSON, MIRMAN and
THOMPSON, INC.
220 ST. CHARLES WAY,
SUITE 200 YORK, PA
17402

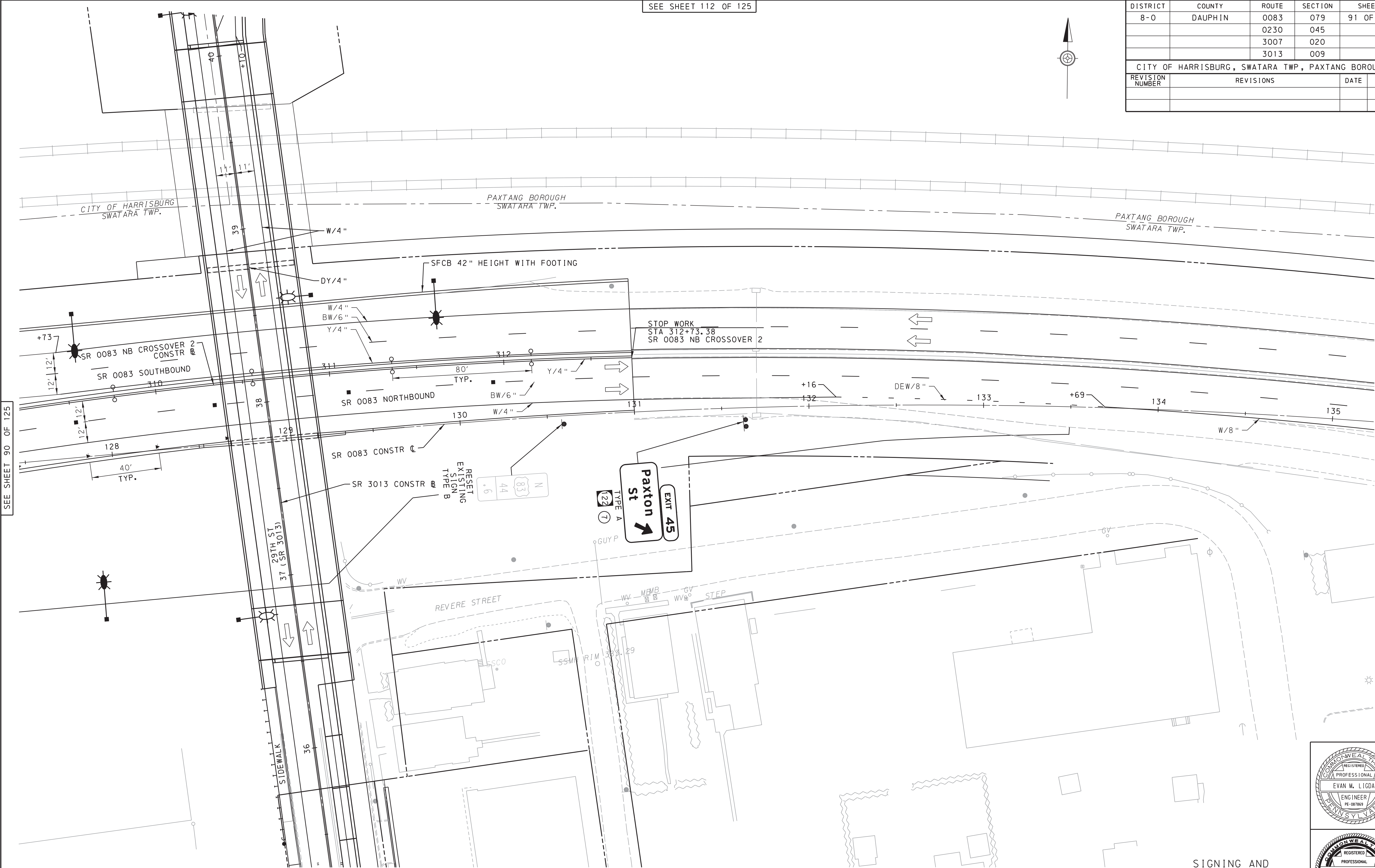


PREPARED BY:
HNTB CORPORATION 4507
NORTH FRONT STREET
SUITE 300 HARRISBURG,
PA 17110





DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	91 OF 125	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH					
REVISION NUMBER	REVISIONS			DATE	BY



SEE SHEET 90 OF 125

SEE SHEET 92 OF 125

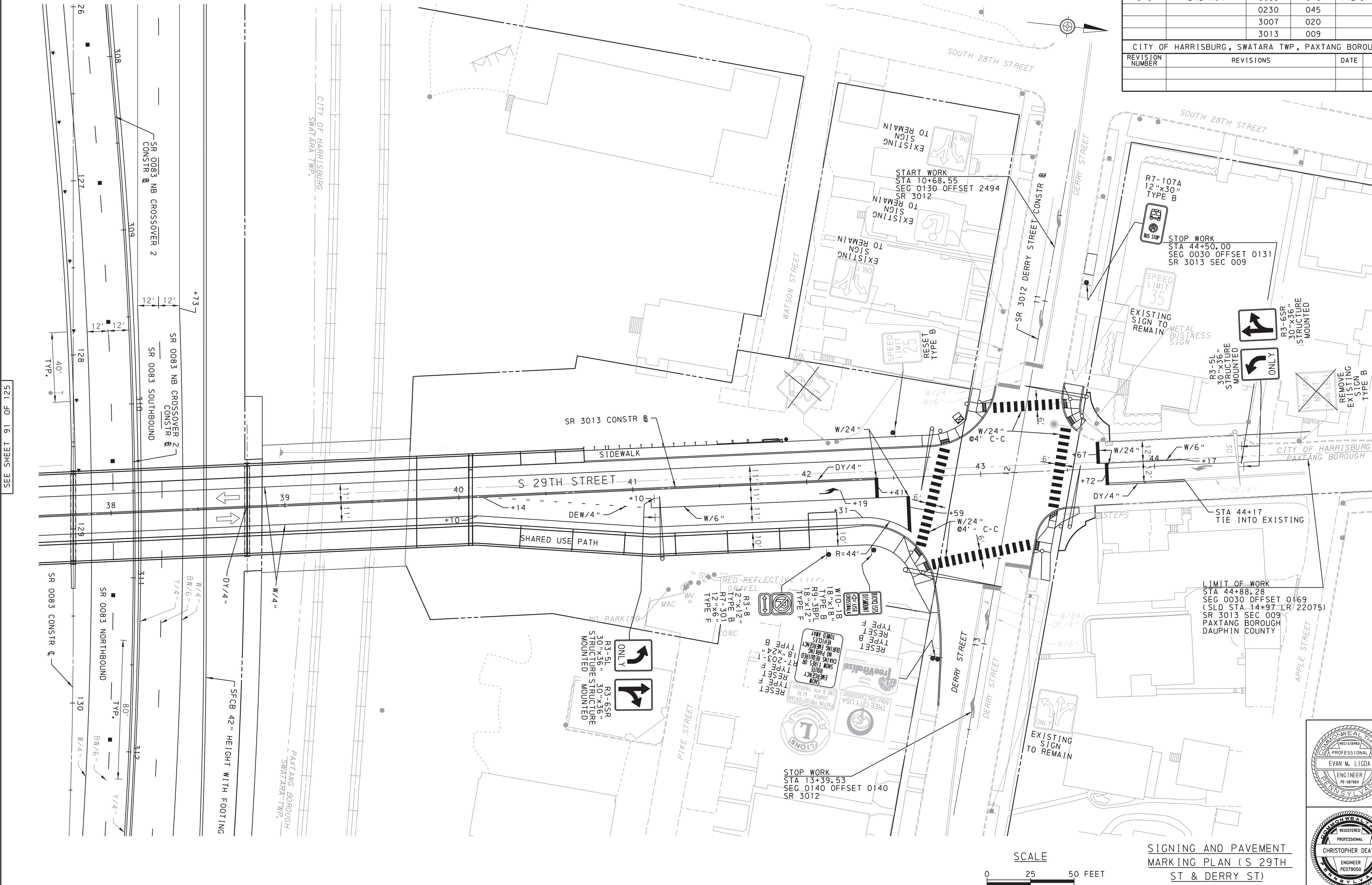


SIGNING AND
PAVEMENT MARKING
PLAN

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
EVAN M. LIGDA
PE-087869

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
CHRISTOPHER DEATS
PE079050

DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	112 OF 125	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH					
REVISION NUMBER	REVISIONS			DATE	BY



SEE SHEET 91 OF 125

EVAN W. LIGDA
ENGINEER
PE-087869

CHRISTOPHER DEATS
ENGINEER
PE079050

11/28/2022
FILENAME: 63016-s-1r-tcp-079-gen

CONSTRUCTION SEQUENCE

STAGE 1

1. SHIFT TRAFFIC TO THE LEFT AND CONSTRUCT SR 0230 (CAMERON STREET) NB WIDENING FROM STA 11+90 TO STA 44+50 RT AND INTERCHANGE RAMP (RAMPS OP & QR) AS SHOWN. INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF SR 0230 (CAMERON STREET) AND SR 3009 / SR 3010 (PAXTON STREET).
2. DETOUR SR 0083 FOR DEMOLITION AND CLEAN-UP OF THE SR 3013 (29TH STREET) BRIDGE.
- DETOUR SR 3013 (29TH STREET) AND CONSTRUCT SR 3013 (29TH STREET) BRIDGE AND FULL DEPTH ROADWAY FROM STA 34+50 TO STA 43+00. INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF SR 3012 (DERRY STREET) AND SR 3013 (29TH STREET). WHILE DETOUR IS IN PLACE, MAINTAIN ACCESS TO ALL BUSINESSES DURING BUSINESS HOURS AND CONSTRUCT WIDENING AS FOLLOWS:
- STAGE 1A - SHIFT SR 3013 (29TH STREET) TRAFFIC AND CONSTRUCT WIDENING FROM STA 30+00 TO STA 34+50 LT
- STAGE 1B - RECONSTRUCT WAYNE STREET TIE-IN (RIGHT SIDE) BY MAINTAINING TRAFFIC IN ACCORDANCE WITH PUB. 213 GENERAL APPLICATION 6-46.
- STAGE 1C - RECONSTRUCT 8-FOOT SECTION OF SR 3013 RT FROM STA 32+50 TO STA 34+00.
- STAGE 1D - SHIFT SR 3013 (29TH STREET) TRAFFIC AND CONSTRUCT WIDENING FROM STA 30+00 TO STA 34+50 RT RECONSTRUCT WAYNE STREET TIE-IN (LEFT SIDE).

4. CLOSE THE EXISTING SR 0083 NB SHOULDER AND CONSTRUCT PROPOSED SR 0083 NB LANES FROM STA 97+00 TO STA 131+00.
- CONSTRUCT NB SIGN STRUCTURE AT STA 99+85.
 - CONSTRUCT NB SIGN STRUCTURE AT STA 110+64.
 - CONSTRUCT NB OUTSIDE (RT) SHOULDER FOOTING AND BASE FOR SIGN STRUCTURE AT STA 122+23.
5. CONSTRUCT FULL DEPTH TEMPORARY SHOULDER FROM STA 121+73 TO STA 132+72 LT, SR 0083 SB IN ACCORDANCE WITH PATA 401-A
6. CONSTRUCT FULL DEPTH TEMPORARY PAVEMENT TIE-IN AT SR 0083 NB LIMIT OF WORK FROM STA 129+50 TO STA 133+50 RT
7. CONSRUCT FULL DEPTH WIDENING FOR TEMPORARY CROSSOVER FROM STA 98+20 TO STA 109+57 AS SHOWN IN THE DETAIL. COMPLETE TIE-IN OF TEMPORARY CROSSOVER TO THE EXISTING SR 0083 NB LANES IN ACCORDANCE WITH PATA 401-A.

STAGE 2

1. SHIFT TRAFFIC TO THE RIGHT AND CONSTRUCT SR 0230 (CAMERON STREET) SB WIDENING FROM STA 11+90 TO STA 44+50 LT REVISE TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF SR 0230 (CAMERON STREET) AND SR 3009 / 3010 (PAXTON STREET) AND INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF SR 0230 AND SYCAMORE STREET
2. AFTER SR 3013 (29TH STREET) IS OPEN TO TRAFFIC, DETOUR SR 0083 FOR DEMOLITION AND CLEAN-UP OF THE SR 3007 (19TH STREET) BRIDGE.
3. DETOUR AND CONSTRUCT SR 3007 (19TH STREET) BRIDGE, SR 8021 INTERCHANGE, ALL RETAINING WALLS, AND FULL DEPTH ROADWAY FROM STA 93+40 TO STA 106+00. INSTALL TEMPORARY TRAFFIC SIGNAL AT THE INTERSECTION OF SR 3010 (PAXTON STREET) AND SR 3007 (19TH STREET).
4. DURING DETOUR OF SR 8021 INTERCHANGE, CONSTRUCT PROPOSED SR 0083 NB LANES STA 77+20 TO STA 97+00 AND TEMPORARY RAMP U TIE-IN.
5. TRANSITION SR 0083 NB TRAFFIC ONTO PROPOSED LANES USING THE TEMPORARY CROSSOVER.
6. SHIFT SR 0083 SB TRAFFIC ONTO RECONSTRUCTED SHOULDER AND CONSTRUCT REMAINING SR 0083 NB AND PARTIAL SB LANES FROM STA 97+00 TO STA 131+00.
- CONSTRUCT MEDIAN FOOTING AND BASE OF SB SIGN STRUCTURE AT STA 118+17.
 - CONSTRUCT MEDIAN FOOTING AND COMPLETE NB SIGN STRUCTURE AT STA 122+23.
 - PARTIALLY DEMOLISH ABANDONED RAILROAD BRIDGE UNDER SR 0083 (STA 120+00 TO STA 122+00) IN ACCORDANCE WITH THE BRIDGE REMOVAL PLAN IN THE CONSTRUCTION PLAN DETAILS.
7. REMOVE EXISTING SR 0083 MEDIAN BARRIER AND CONSTRUCT FULL DEPTH TEMPORARY PAVEMENT IN THE EXISTING MEDIAN FOR TEMPORARY CROSSOVER FROM STA 90+75 TO STA 98+50 IN ACCORDANCE WITH THE DETAIL AND PATA 401-B.

STAGE 3

1. COMPLETE FINAL OVERLAY AND PAVEMENT MARKINGS ON SR 0230 (CAMERON STREET) AND SHIFT TRAFFIC INTO PROPOSED LANE LOCATIONS. CLOSE TURN LANES ONTO RAMPS AS SHOWN.
2. CLOSE AND DETOUR 13TH STREET SB RAMPS AND COMPLETE CONSTRUCTION OF SB RAMPS TO SR 0230 (CAMERON STREET)
3. CONSTRUCT NB RAMPS TO SR 0230 (CAMERON STREET) AS FOLLOWS:

STAGE 3A - COMPLETE CONSTRUCTION AND TIE-IN OF NB EXIT RAMP TO SR 0230 WHILE 13TH STREET NB INTERCHANGE REMAINS OPEN TO TRAFFIC.

STAGE 3B - OPEN NB EXIT RAMP TO SR 0230 AND CLOSE NB EXIT RAMP TO 13TH STREET. COMPLETE CONSTRUCTION OF NB ENTRANCE RAMP FROM SR 0230 WHILE ENTRANCE RAMP FROM 13TH STREET REMAINS OPEN. COMPLETE FINAL SECTION OF RAMP FOLLOWING OPENING RAMP R TO TRAFFIC AND CLOSING EXISTING RAMP C.

4. SHIFT SR 0083 NB TRAFFIC ONTO PROPOSED NB LANES BETWEEN STA 75+00 AND STA 82+00.
5. REMOVE SECTION OF EXISTING MEDIAN BARRIER AND COMPLETE PAVING AND INSTALLATION OF PROPOSED TEMPORARY BARRIER FOR CROSSOVER 1 (SR 0083 STA 73+50 TO STA 83+00).
6. OPEN SR 8021 (19TH STREET) INTERCHANGE AND SR 3007 TO TRAFFIC. SR 3007 BRIDGE CAN BE COMPLETED IN STAGE 3, IF NECESSARY, BUT INTERCHANGE RAMPS AND CONNECTION TO SR 3010 (PAXTON STREET) MUST BE OPENED TO TRAFFIC.
7. CONSTRUCT REMAINING SR 0083 NB SHOULDER STA 88+00 TO STA 98+00.
8. SHIFT SR 0083 SB TRAFFIC ONTO NEW SR 0083 NB ROADWAY STA 108+00 TO STA 131+00. UTILIZE THE EXISTING CROSSOVER (STA 97+00 TO STA 108+00) USED FOR NB TRAFFIC IN STAGE 2.
9. COMPLETE CONSTRUCTION OF SR 0083 SB LANES STA 113+30 TO STA 131+00. COMPLETE DEMOLITION AND REMOVAL OF ABANDONED RAILROAD BRIDGE UNDER SR 0083 (STA 120+00 TO STA 122+00) IN ACCORDANCE WITH THE BRIDGE REMOVAL PLAN IN THE CONSTRUCTION PLAN DETAILS.

STAGE 4

1. SHIFT SR 0083 SB TRAFFIC INTO PROPOSED LANE LOCATIONS. MAINTAIN PATTERN FOR SR 0083 NB TRAFFIC AND CONSTRUCT REMAINING PORTION OF SR 0083 NB IN THE AREA OF THE TEMPORARY CROSSOVER (STA 98+00 TO STA 109+57).
2. PLACE FINAL OVERLAY AND PAVEMENT MARKINGS ON SR 0083.

TRAFFIC CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	1 OF 85
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, PAXTANG BOROUGH, SWATARA TWP				
REVISION NUMBER	REVISIONS			DATE
				BY

SHEET INDEX	
DESCRIPTION	SHEET
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TABULATION SHEETS	4 - 6
DETAIL SHEETS	7 - 9
DETOUR PLAN SHEETS	10 - 25
TRAFFIC CONTROL PLAN SHEETS	26 - 70
TEMPORARY TRAFFIC SIGNAL PLANS	71 - 85

GENERAL NOTES

THIS WORK CONSISTS OF THE MAINTENANCE OF TRAFFIC AND THE PROTECTION OF THE TRAVELING PUBLIC APPROACHING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.

FURNISH, ERECT, PLACE AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES AND MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES IN ACCORDANCE WITH THE METHODS INDICATED ON THESE DRAWINGS AND,

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES.
3. PDT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.
4. PDT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
5. PDT PUBLICATION 408, SPECIFICATIONS.
6. FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
7. PDT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS.
8. PDT PUBLICATION 111, TRAFFIC CONTROL PAVEMENT MARKING AND SIGNING STANDARDS.

IMMEDIATELY UPON COMPLETION OF THE WORK, REMOVE THE DEVICES. THE DEPARTMENT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.

COVER OR REMOVE ALL SIGNS NOT IN USE.

ALL SIGNS SHOWN ON PLANS ARE TO REMAIN UNLESS OTHERWISE STATED.

RECOMMENDED MARCH 8 2023
Ch. C. Flad Christopher C. Flad, P.E.
2023.03.08 16:55:33 -05'00'
DISTRICT TRAFFIC ENGINEER

RECOMMENDED March 13, 2023

ADE - CONSTRUCTION

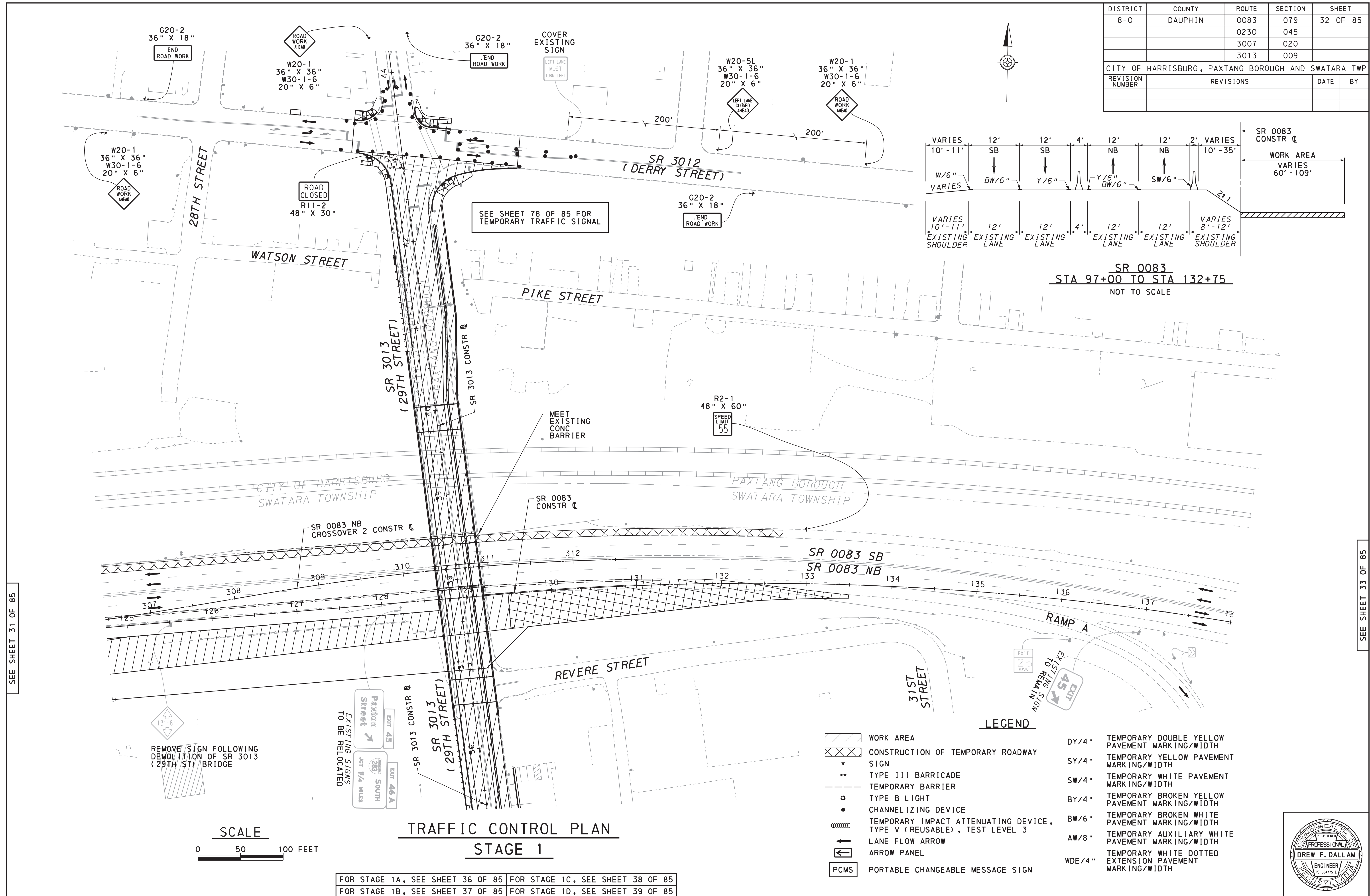
PREPARED BY:
JOHNSON, MIRIRAN
and
THOMPSON, INC.
220 ST. CHARLES WAY
SUITE 200
YORK, PA 17402



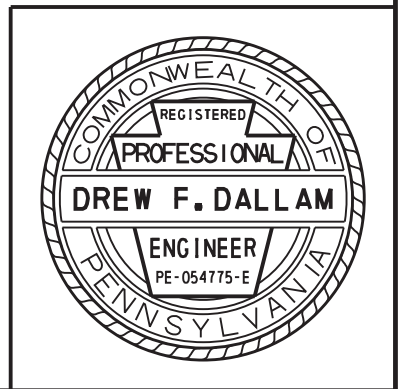
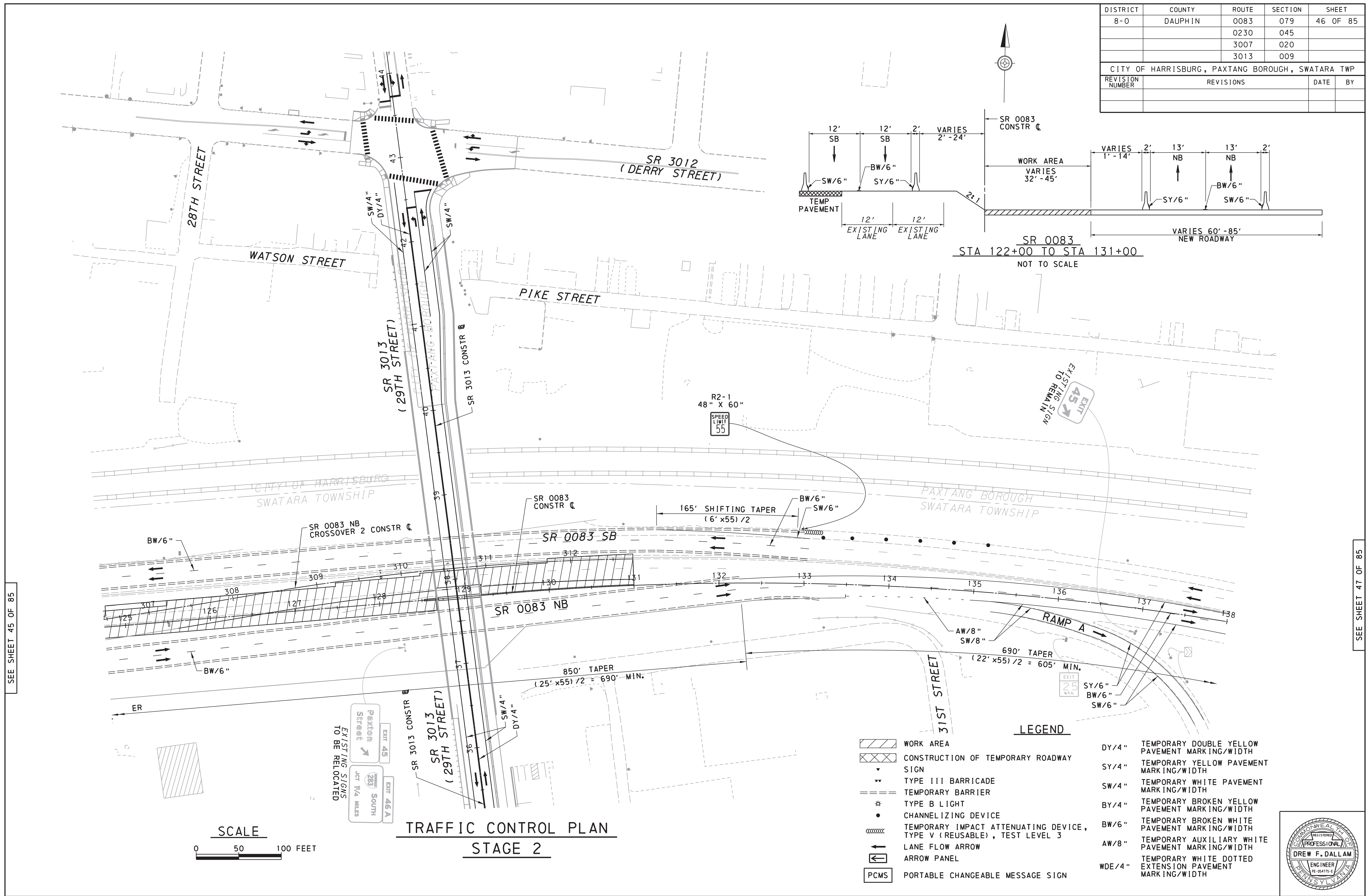
Drew F. Dallam
28 November 2022

11/28/2022
FILENAME: 63016-s-tr-rcp01-07.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	32 OF 85
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, PAXTANG BOROUGH AND SWATARA TWP				
REVISION NUMBER	REVISIONS			DATE BY



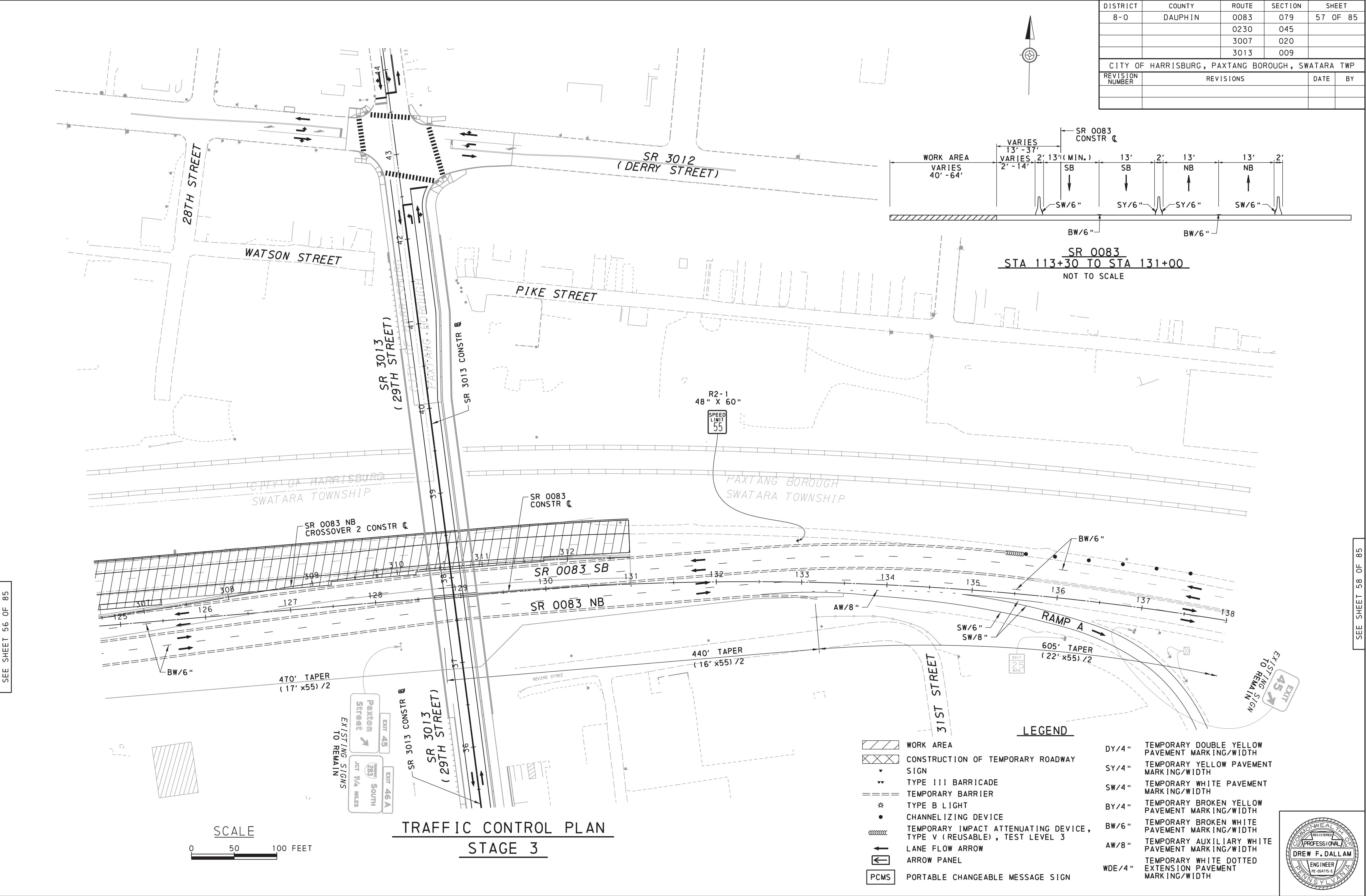
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	46 OF 85
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, PAXTANG BOROUGH, SWATARA TWP				
REVISION NUMBER	REVISIONS			DATE BY



DISTRICT	COUNTY	ROUTE	SECTION	SHEET	
8-0	DAUPHIN	0083	079	57 OF 85	
		0230	045		
		3007	020		
		3013	009		
CITY OF HARRISBURG, PAXTANG BOROUGH, SWATARA TWP					
REVISION NUMBER	REVISIONS			DATE	BY

SEE SHEET 56 OF 85

11/28/2022
FILENAME: 63016-s-1r-1-rp03-10.dgn



DAUPHIN COUNTY
SR 0083 SECTION 079

SR 0083 STA 39+50.00 TO STA 140+00.00 (LIMITS OF WORK)
TOTAL SHEETS 340

CROSS SECTIONS

SR 0083 NB CROSSOVER 1 - STA 200+68.00 TO STA 212+88.00 (SHEETS 2 THRU 18)
SR 0083 - STA 85+67.00 TO STA 118+25.00 (SHEETS 19 THRU 63)
SR 0083 NB CROSSOVER 2 - STA 300+00.00 TO STA 312+73.00 (SHEETS 64 THRU 81)
SR 0083 - STA 131+25.00 TO STA 136+00.00 (SHEETS 82 THRU 88)

BUNDLE 1 OF 3

CROSS SECTIONS

SR 0230 A - STA 7+02.00 TO STA 17+64.00 (SHEETS 90 THRU 104)
SR 0230 B - STA 17+64.00 TO STA 44+50.00 (SHEETS 105 THRU 142)
SR 8017 RAMP O TEMP - STA 598+77.00 TO STA 602+25.00 (SHEETS 143 THRU 147)
SR 8017 RAMP O - STA 602+41.00 TO STA 604+25.00 (SHEETS 148 THRU 150)
SR 8017 RAMP OP - STA 604+25.00 TO STA 609+00.00 (SHEETS 151 THRU 160)
SR 8017 RAMP OP SPUR - STA 620+00.00 TO STA 622+24.00 (SHEETS 161 THRU 164)
SR 8017 RAMP P - STA 650+00.00 TO STA 652+37.00 (SHEETS 165 THRU 170)
SR 8017 RAMP P TEMP - STA 652+37.00 TO STA 653+50.00 (SHEETS 171 THRU 173)
SR 8017 RAMP Q TEMP - STA 699+00.00 TO STA 701+24.00 (SHEETS 174 THRU 179)
SR 8017 RAMP Q - STA 701+24.00 TO STA 703+19.00 (SHEETS 180 THRU 186)
SR 8017 RAMP QR - STA 703+19.00 TO STA 706+25.00 (SHEETS 187 THRU 198)
SR 8017 RAMP QR SPUR - STA 720+00.00 TO STA 722+35.00 (SHEETS 199 THRU 203)
SR 8017 RAMP R - STA 750+00.00 TO STA 753+36.00 (SHEETS 204 THRU 212)
SR 8017 RAMP R TEMP - STA 753+36.00 TO STA 762+56.00 (SHEETS 213 THRU 226)

BUNDLE 2 OF 3

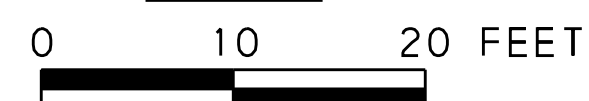
CROSS SECTIONS

SR 3007 - STA 93+25.00 TO STA 106+00.00 (SHEETS 228 THRU 246)
SR 3007 TEMP ACCESS - STA 10+00.00 TO STA 14+64.00 (SHEETS 247 THRU 253)
SR 8021 RAMP U TEMP - STA 899+07.00 TO STA 902+91.00 (SHEETS 254 THRU 259)
SR 8021 RAMP U - STA 902+91.00 TO STA 909+00.00 (SHEETS 260 THRU 268)
SR 8021 RAMP V - STA 950+50.00 TO STA 959+23.00 (SHEETS 269 THRU 281)
SR 8021 RAMP V SPUR - STA 949+66.00 TO STA 951+00.00 (SHEETS 282 THRU 284)
SR 9402 NB C-D ROAD - STA 1029+50.00 TO STA 1039+00.00 (SHEETS 285 THRU 303)
SR 9402 NB C-D ROAD - STA 1059+00.00 TO STA 1065+38.00 (SHEETS 304 THRU 312)
YATES ALLEY - STA 10+00.00 TO STA 14+75.00 (SHEETS 313 THRU 319)
SR 3013 - STA 29+92.00 TO STA 43+50.00 (SHEETS 320 THRU 338)
16TH STREET A - STA 23+25.00 TO 24+00.00 (SHEETS 339 THRU 340)

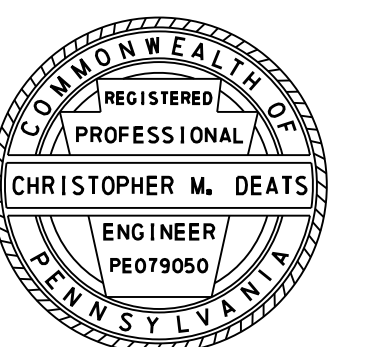
BUNDLE 3 OF 3

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	0083	079	1 OF 340
		0230	045	
		3007	020	
		3013	009	
CITY OF HARRISBURG, SWATARA TWP, PAXTANG BOROUGH				
REVISION NUMBER	REVISIONS			DATE
				BY

SCALE

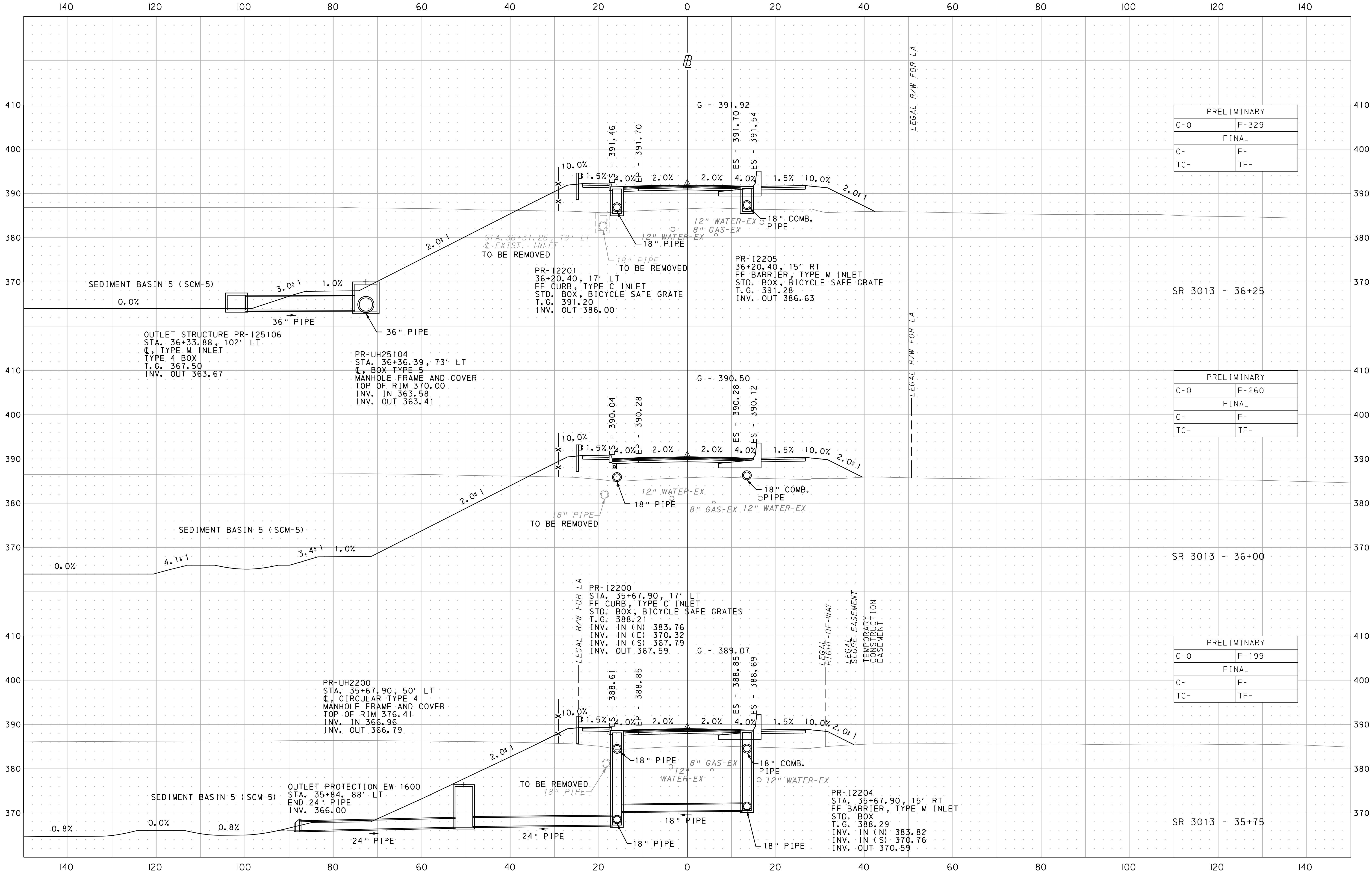


PREPARED BY:
HNTB CORPORATION
4507 N FRONT STREET
SUITE 300
HARRISBURG, PA 17110



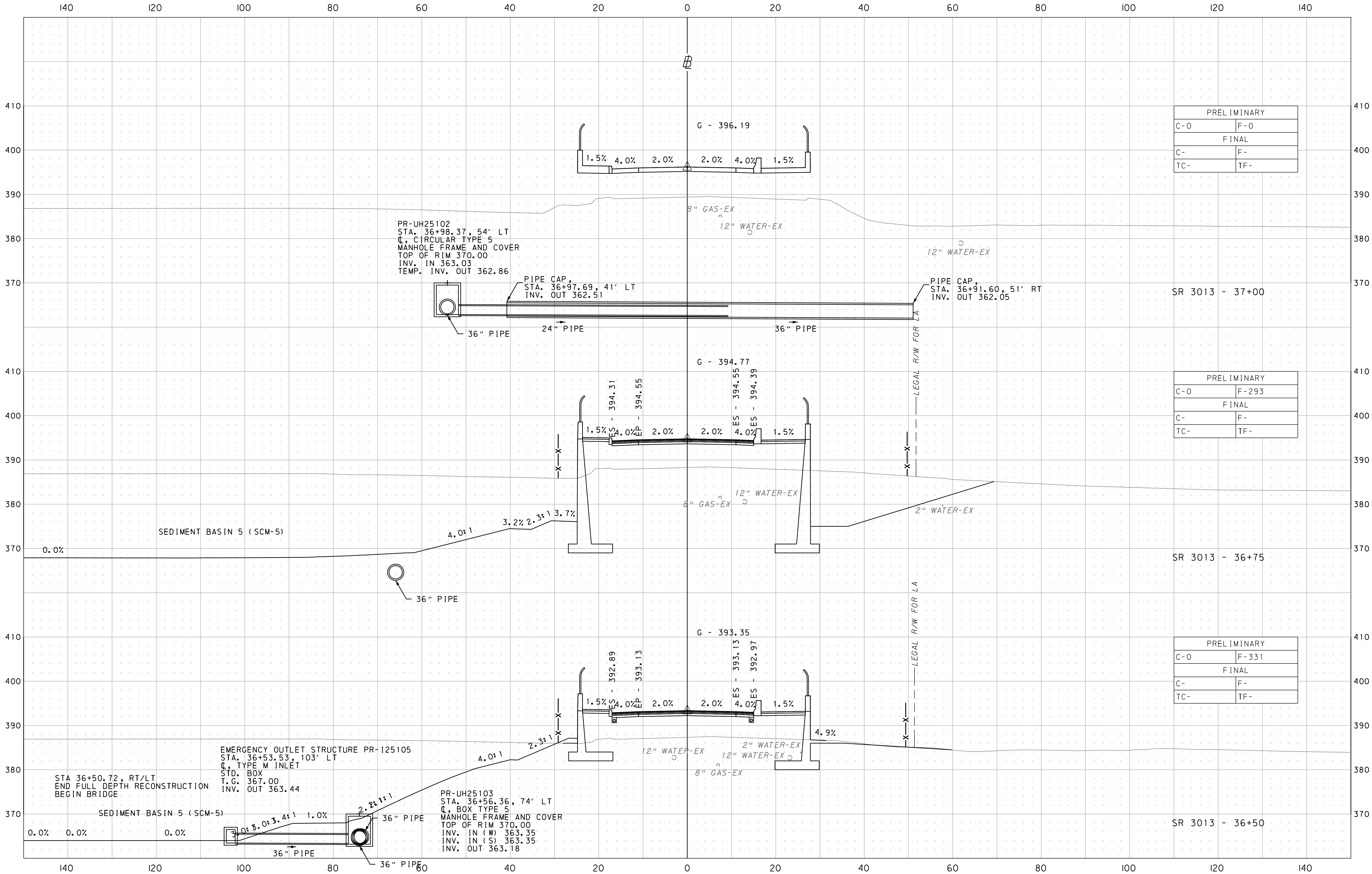
Christopher M. Deats

DATE: 3/21/23



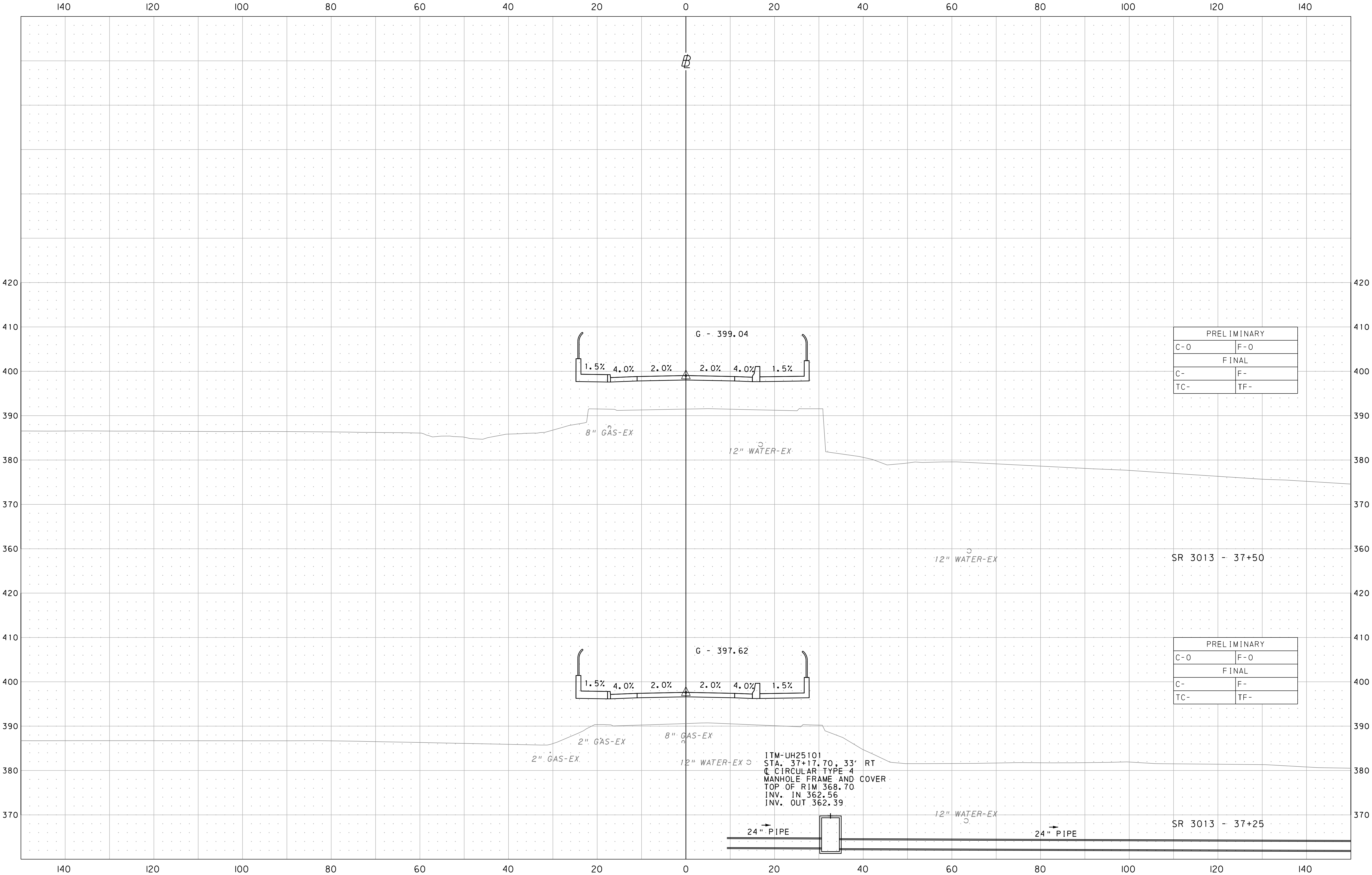
SCALE: 1 INCH = 10 FEET

DISTRICT	COUNTY	ROUTE	SECTION	Prelim. Bk. No.	Final Bk. No.	SHEET
8-0	DAUPHIN	0083	079			329 OF 340



SCALE: 1 INCH = 10 FEET

DISTRICT	COUNTY	ROUTE	SECTION	Prelim. Bk. No.	Final Bk. No.	SHEET
8-0	DAUPHIN	0083	079			330 OF 340



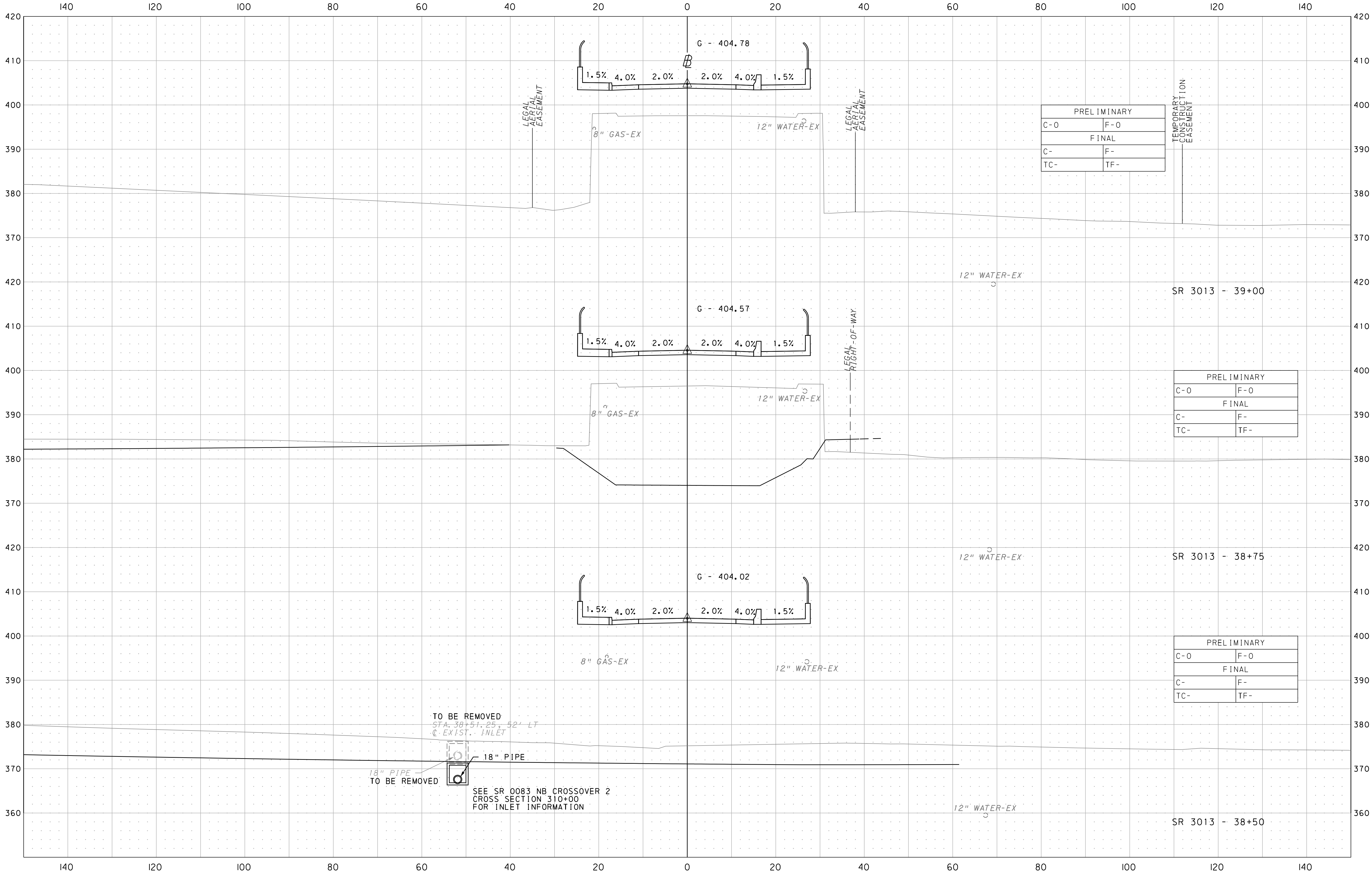
PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

SCALE: 1 INCH = 10 FEET



DISTRICT	COUNTY	ROUTE	SECTION	Prelim. Bk. No.	Final Bk. No.	SHEET
8-0	DAUPHIN	0083	079			332 OF 340



PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

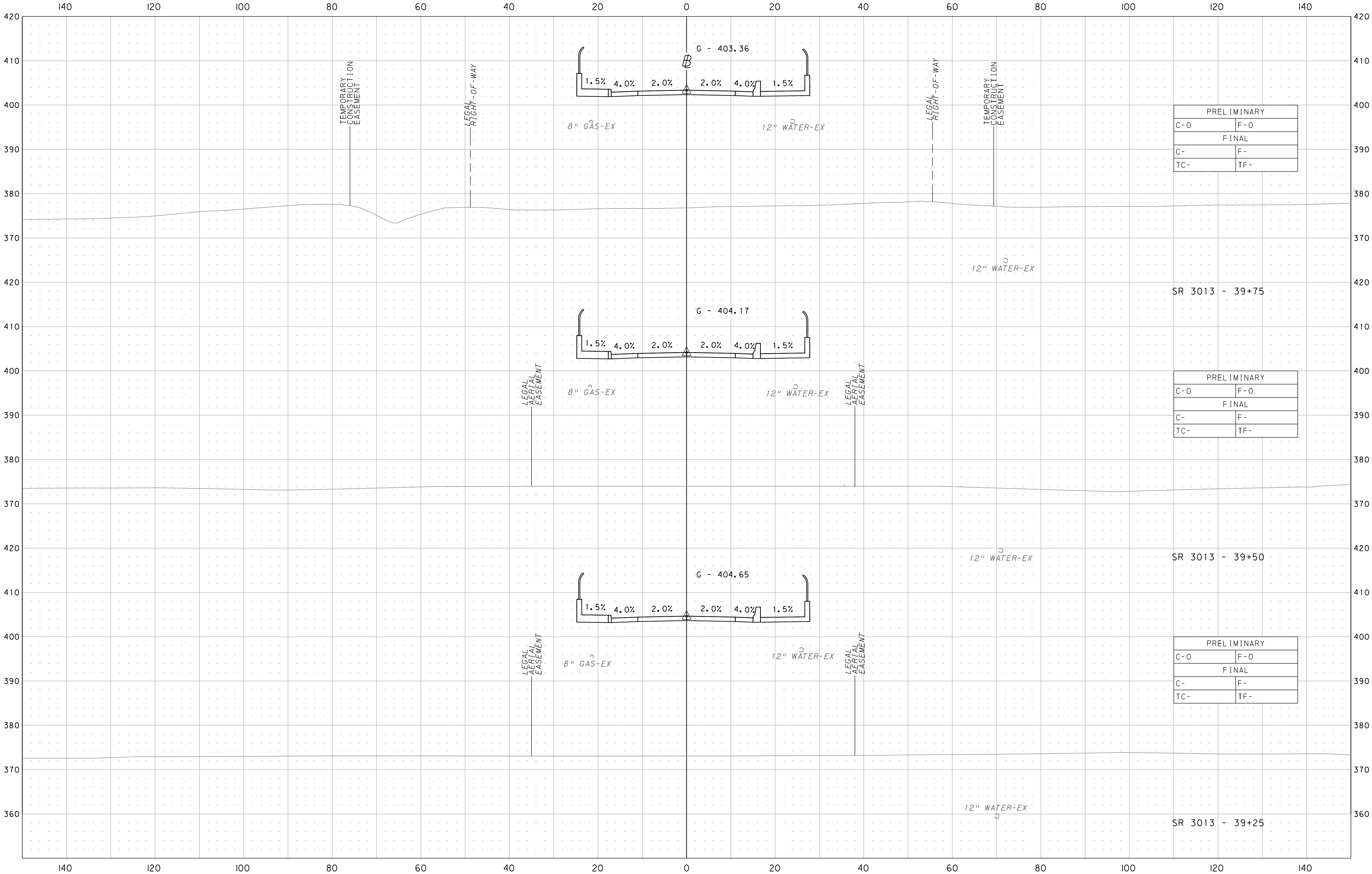
TEMPORARY
CONSTRUCTION
EASEMENT

PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

SCALE: 1 INCH = 10 FEET

DISTRICT	COUNTY	ROUTE	SECTION	Prelim. Bk. No.	Final Bk. No.	SHEET
8-0	DAUPHIN	0083	079			333 OF 340



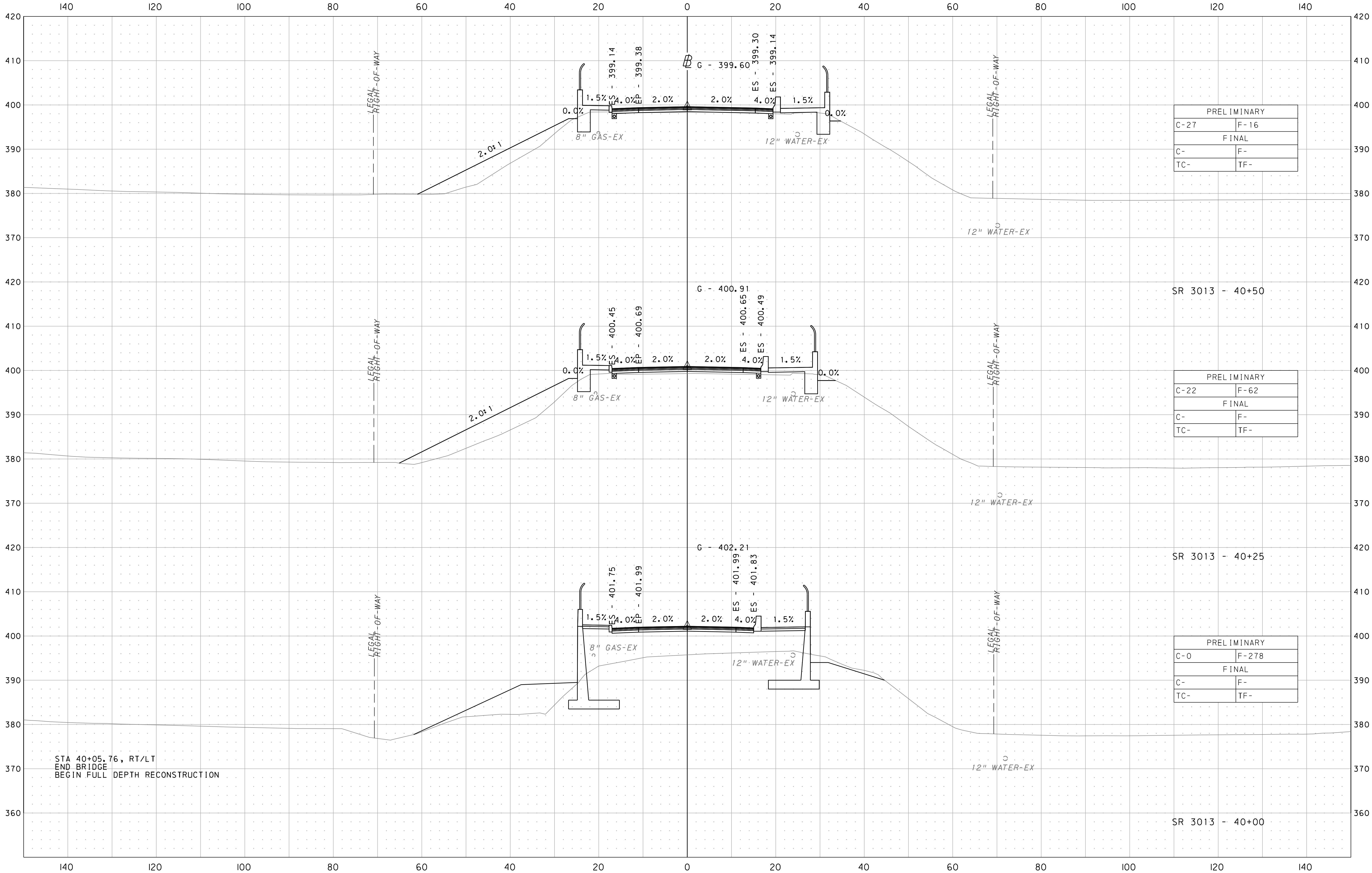
PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-0	F-0
FINAL	
C-	F-
TC-	TF-

SCALE: 1 INCH = 10 FEET

DISTRICT	COUNTY	ROUTE	SECTION	Prelim. Bk. No.	Final Bk. No.	SHEET
8-0	DAUPHIN	0083	079			334 OF 340



PRELIMINARY	
C-27	F-16
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-22	F-62
FINAL	
C-	F-
TC-	TF-

PRELIMINARY	
C-0	F-278
FINAL	
C-	F-
TC-	TF-

STA 40+05.76, RT/LT
END BRIDGE
BEGIN FULL DEPTH RECONSTRUCTION

SCALE: 1 INCH = 10 FEET