



Pennsylvania
Department of Transportation

May 19, 2026
Dauphin County
City of Harrisburg
SR 3022-005 (Maclay St)
DOT # 518 088 K
PUC No. A-2023-3037711
ECMS # 74521

Matthew L. Homsher, Secretary
Pennsylvania Public Utility
Commission PO Box 3265
Harrisburg, PA 17105-3265

Dear Secretary Homsher,

In accordance with ordering paragraph number Nine (9) of the PUC Secretarial Letter at Docket No: A-2023-3037711 dated May 4, 2023, please find attached for your approval an electronic copy of the final signed Drawings for Construction of State Route 3022, Section 005 (Maclay St) that crosses above grade, the tracks of Norfolk Southern Railroad located in Harrisburg City, Dauphin County, consisting of sheets 1 through 54 for a total of 54 sheets; Structure Plans consisting of sheets 1 through 97 for a total of 97 sheets.

The Department of Transportation hereby avers that a complete set of the aforesaid final drawings and a copy of the property description are being sent to the following parties of record for examination simultaneously with this submission to the Public Utility Commission:

D. Shawn Starling, P.E.
Senior Engineer Public Improvement
Norfolk Southern Railway Company
650 Peachtree Street, NW - Box 45
Atlanta, GA, 30308
douglas.starling@nscorp.com

Julian Freeman, Esq.
General Attorney
Norfolk Southern Railway Company
Three Commercial Place
Norfolk, VA 23510-9241
Juliane.Freeman@nscorp.com

Alyson Wert
Dauphin County Commissioners
Dauphin County Administrative Building
2 S. Second Street, 4th Floor
Harrisburg, PA 17108
awert@dauphincounty.org

Joel Seiders, City Engineer
City of Harrisburg
1002 North 7th Street
Harrisburg, PA 17102
jseiders@harrisburgpa.gov

Matt Souders
DQE Communications LLC
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Pittsburgh, PA 15203
msounders@dqe.com

Phil Poliski
Pike Telecom representing Verizon Pennsylvania LLC
501 Holiday Drive
Pittsburgh, PA 15220
ppoliski@pike.com

Travis Simpson
AT&T Corp./Hypower Inc. LLC
536 Baltimore Pike
Springfield, PA 19064
Tsimpson@HYPOWERINC.com

Charlotte Krupa
Agency Coordinator
PPL Electric Utilities Corporation
827 Hausman Road
Allentown, PA 18104
cakrupa@pplweb.com

Lewis Borhman
Brightspeed of Pennsylvania LLC
1765 West Trindle Road
Carlisle, PA 17015
lewis.borhman@brightspeed.com

Geoffrey Ferguson
UGI Utilities
1301 AIP Drive
Middletown, PA 17057
gferguson@ugi.com

William McMillen
Comcast
4601 Smith Street
Harrisburg, PA 17109
william_mcmillen@cable.comcast.com

Micaela Swart
Capital Region Water
3003 North Front Street
Harrisburg, PA 17110
Micaela.Swart@capitalregionwater.com

Jeffrey Bowra
Capital Region Water
3003 North Front Street
Harrisburg, PA 17110
jeff.bowra@capitalregionwater.com

Larry Hubbard
Shenandoah Telecommunications Company dba Shentel
500 Shentel Way, PO Box 459
Edinburg, VA 22824
larry.hubbard@emp.shentel.com

Paul Erickson
Lumen
5095 Ritter Road, Suite 101
Mechanicsburg, PA 17055
Paul.erickson@lumen.com

Robert Januszko
Frontier Communications
93 Old Berwick Road
Drums, PA 17023
robert.januszko@ftr.com

Dave Hayward
Crown Castle Fiber, LLC

300 Barr Harbor Drive, Suite 300
Conshohocken, PA 19428
claudia.wade@crowncastle.com

David McLuckie
FirstLight Fiber, Inc.
41 State Street
Albany, NY 12207
dmcluckie@firstlight.net

We respectfully request the approval of these plans and the subsequent issuance of PUC Order. Should you have any questions, please feel free to contact Ahmed Lasloudji at 717-787-4732.

Sincerely,



Ahmed Lasloudji
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
Robert J. Kipacz, Office of Chief Counsel, 9th Floor,
William Sinick, P.E Manager, Rail Safety Division, PUC, 3rd Floor

610275
Instrument # 20250004909
Jim Zugay, Recorder of Deeds
Dauphin, PA
Record Date & Time: 03/06/2025 at 11:04 AM
Cashier By: CMECK
UPICount:
UPIFee: \$0.00
UPLIST:

DISTRICT	COUNTY	CITY	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
8-0	DAUPHIN	HARRISBURG	----	3022	005 R/W	36
				MACLAY ST	R/W	31

MPMS NO. 74521 SR 3022, FORMERLY LR 1

EXEMPT FROM UPI

636180
Instrument # 20260003772
Jim Zugay, Recorder of Deeds
Dauphin, PA
Record Date & Time: 02/18/2026 at 10:50 AM
Cashier By: CMECK
UPICount:
UPIFee: \$0.00
UPLIST:

COMMONWEALTH OF PENNSYLVANIA



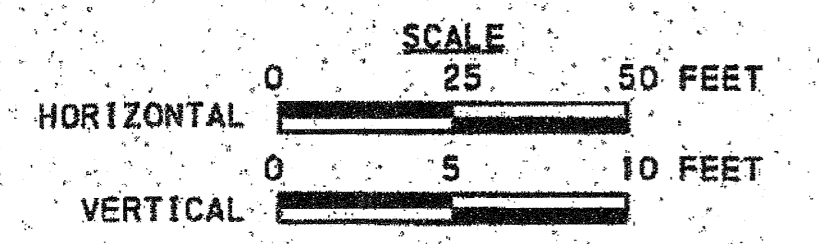
DEPARTMENT OF TRANSPORTATION

DRAWINGS AUTHORIZING ACQUISITION

RIGHT-OF-WAY

OF
FOR
STATE ROUTE 3022 SECTION 005 R/W
IN DAUPHIN COUNTY
FROM STA 36+09.00 TO STA 41+10.00
FROM SEGMENT 0022 OFFSET 0000 TO SEGMENT 0022 OFFSET 0501
AND
FROM STA 46+11.50 TO STA 46+79.50
FROM SEGMENT 0030 OFFSET 0000 TO SEGMENT 0030 OFFSET 0068
AND
CITY STREET MACLAY STREET SECTION R/W
FROM STA 31+00.00 TO STA 53+00.00 LENGTH 2129.15 FT 0.404 MI

THE PLAN IS REAUTHORIZED AND REVISED AS/AND FOR UPDATING TEMP CONSTRUCTION AND DRAINAGE EASEMENTS
PARCEL INVOLVED IS: 15
REVISION ON SHEET: 25
RECOMMENDED 1/30 20 25
Christine Norris
DEPUTY SECRETARY
APPROVED 1/30 20 25
Hal Cole
SECRETARY OF TRANSPORTATION
(ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)



THE PUBLIC UTILITY COMMISSION SHALL APPROPRIATE PROPERTY IN APPLICATION DOCKET NO. A-2023-3037711 BETWEEN STATION 36+09.00 AND STATION 46+79.50 PURSUANT TO THE PROVISIONS OF SECTION 2702(b) OF THE ACT OF JULY 1, 1978, P.L. 598, NO. 116 (66 P.S. SECTION 2702). THIS PLAN PREPARED PURSUANT TO SECTION 2003(e) OF THE ADMINISTRATIVE CODE, AS AMENDED, 71 P.S. SECTION 513 (e), AND SECTION 302(b)(3) OF THE EMINENT DOMAIN CODE, 26 PA C.S., SECTION 302(b)(3).

DESIGN DESIGNATION
FUNCTIONAL CLASSIFICATION - PRINCIPAL URBAN ARTERIAL
DESIGN SPEED - 25 MPH
PAVEMENT WIDTH - 5-11' LANES
SHOULDER WIDTH - 6'
TRAFFIC DATA
CURRENT ADT - 25276 (2025)
DESIGN YEAR ADT - 27431 (2045)
DHV - 2743
D - 60%
T - 3%

RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN
DAUPHIN COUNTY, PENNSYLVANIA
INSTRUMENT NO. _____
WITNESS MY HAND AND SEAL OF OFFICE

DATE _____
RECORDER

COMMONWEALTH OF PENNSYLVANIA
COUNTY OF DAUPHIN SS
BEFORE ME, A NOTARY PUBLIC, PERSONALLY CAME
JEFF BUCHER
KNOWN TO ME OR SATISFACTORILY PROVEN TO BE THE PERSON WHO HAS BEEN AUTHORIZED BY WRITTEN DELEGATION TO AFFIX THE FACSIMILE SIGNATURE OF MICHAEL B. CARROLL, SECRETARY OF TRANSPORTATION, ON PLANS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY BY THE DEPARTMENT OF TRANSPORTATION, AND AS SUCH AUTHORIZED REPRESENTATIVE ACKNOWLEDGED THE WITHIN PLAN, COMPRISING 31 SHEETS, TO BE AN OFFICIAL PLAN OF THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION AND DESIRED THAT THE SAME BE RECORDED AS SUCH.
WITNESS MY HAND AND NOTARIAL SEAL

Commonwealth of Pennsylvania - Notary Seal
MARK H. HARRIS - Notary Public
Dauphin County
My Commission Expires January 5, 2027
Commission Number 122697

* PREPARED BY:
SUSQUEHANNA CIVIL INC.
50 GRUMBACHER RD, SUITE 10
YORK, PA 17406

REG PROF SURVEYOR
DATE: September 26, 2024

* PREPARED BY:
ERDMAN ANTHONY
ONE STERLING PLACE
100 STERLING PARKWAY, SUITE 212
MECHANICSBURG, PA 17050

REG PROF SURVEYOR
DATE: 09/26/2024

RECOMMENDED October 10, 20 24
Kevin M. Keefe, P.E.
DISTRICT EXECUTIVE
RECOMMENDED 10/23 20 24
Christine Norris
DEPUTY SECRETARY
APPROVED 10/23 20 24
Hal Cole
SECRETARY OF TRANSPORTATION
(ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)

REVISION 1:
COMMONWEALTH OF PENNSYLVANIA
COUNTY OF DAUPHIN SS
BEFORE ME, A NOTARY PUBLIC, PERSONALLY CAME
MARK QUADRELL
KNOWN TO ME OR SATISFACTORILY PROVEN TO BE THE PERSON WHO HAS BEEN AUTHORIZED BY WRITTEN DELEGATION TO AFFIX THE FACSIMILE SIGNATURE OF MICHAEL B. CARROLL, SECRETARY OF TRANSPORTATION ON PLANS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY BY THE DEPARTMENT OF TRANSPORTATION, AND AS SUCH AUTHORIZED REPRESENTATIVE ACKNOWLEDGED THE WITHIN PLAN, COMPRISING 31 SHEETS, TO BE AN OFFICIAL PLAN OF THE DEPARTMENT OF TRANSPORTATION AND DESIRED THAT THE SAME BE RE-RECORDED.
WITNESS MY HAND AND NOTARIAL SEAL

1/30/25

REVISION 1 PREPARED BY:
ERDMAN ANTHONY
ONE STERLING PLACE
100 STERLING PARKWAY, SUITE 212
MECHANICSBURG, PA 17050

REG PROF SURVEYOR
DATE: 01/23/2025

REVISION 1:
RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC., IN
DAUPHIN COUNTY, PENNSYLVANIA
INSTRUMENT NO. _____
WITNESS MY HAND AND SEAL OF OFFICE

DATE _____
RECORDER

ORDINANCE NUMBER: 5-2024
ENACTED 9/10/2024 20 24
Wanda R. Wilkerson
CITY OF HARRISBURG OFFICIAL
RECOMMENDED 10/9 20 24
Pharon Bertsch
PROJECT MANAGER

DATE: 9/26/2024
FILE NAME: N:\1839-01-lic1 by: S:\D:\aw\lms\AR01P\lms\Cover\Index\3022005R\RRNT0001.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	1A OF 31
		MACLAY ST	R/W	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
△	REAUTHORIZATION BLOCK	2/25	EA	
△	ADD SEALS AND REAUTHORIZATION BLOCKS	8/25	EA	

REVISION 2:

THE PLAN IS REAUTHORIZED AND REVISED AS/AND FOR UPDATING DRAINAGE EASEMENT AREA AND TOTAL REQUIRED R/W AREA.

SHEET 1A IS A NEW SHEET.

PARCEL INVOLVED IS: 15

REVISION ON SHEET: 25

RECOMMENDED 2/27 2025
Christine Norris
 DEPUTY SECRETARY

APPROVED 2/27 2025
Mark H. Harris
 SECRETARY OF TRANSPORTATION
 (ON BEHALF OF THE GOVERNOR
 AS WELL AS THE SECRETARY)

REVISION 3:

THE PLAN IS REAUTHORIZED AND REVISED AS/AND FOR: UPDATING EASEMENTS AND REQ'D RIGHT-OF-WAY.

PARCEL INVOLVED IS: 15

VOID SHEETS: 4,9,10,11 & 25.

NEW SHEETS: 4A,9A,10A,11A & 25A.

REVISED SHEETS: 1,1A,2,3 & 13.

RECOMMENDED 2/12 2026
Christine Norris
 DEPUTY SECRETARY

APPROVED 2/12 2026
Mark H. Harris
 SECRETARY OF TRANSPORTATION
 (ON BEHALF OF THE GOVERNOR
 AS WELL AS THE SECRETARY)

REVISION 3:

Commonwealth of Pennsylvania - Notary Seal
 MARK H HARRIS - Notary Public
 Dauphin County
 My Commission Expires January 5, 2027
 Commission Number 1226597

COMMONWEALTH OF PENNSYLVANIA
 COUNTY OF DAUPHIN SS

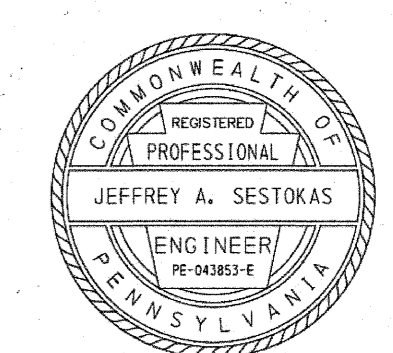
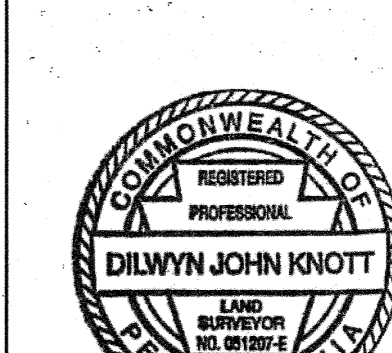
BEFORE ME, A NOTARY PUBLIC, PERSONALLY CAME MARK CHAPPELL, KNOWN TO ME OR SATISFACTORILY PROVEN TO BE THE PERSON WHO HAS BEEN AUTHORIZED BY WRITTEN DELEGATION TO AFFIX THE FACSIMILE SIGNATURE OF MICHAEL B. CARROLL, SECRETARY OF TRANSPORTATION ON PLANS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY BY THE DEPARTMENT OF TRANSPORTATION, AND AS SUCH AUTHORIZED REPRESENTATIVE ACKNOWLEDGED THE WITHIN PLAN, COMPRISING 36 SHEETS, TO BE AN OFFICIAL PLAN OF THE DEPARTMENT OF TRANSPORTATION AND DESIRED THAT THE SAME BE RE-RECORDED.

WITNESS MY HAND AND NOTORIAL SEAL
Mark H. Harris 2/12/2026

REVISION 3 PREPARED BY:

ERDMAN ANTHONY

ONE STERLING PLACE
 100 STERLING PARKWAY, SUITE 212
 MECHANICSBURG, PA 17050

Dilwyn Knott REG PROF SURVEYOR *Jeffrey A. Sestokas* PROF ENGINEER

DATE: 12/10/2025 DATE: 12/10/2025

REVISION 2:

Commonwealth of Pennsylvania - Notary Seal
 MARK H HARRIS - Notary Public
 Dauphin County
 My Commission Expires January 5, 2027
 Commission Number 1226597

COMMONWEALTH OF PENNSYLVANIA
 COUNTY OF DAUPHIN SS

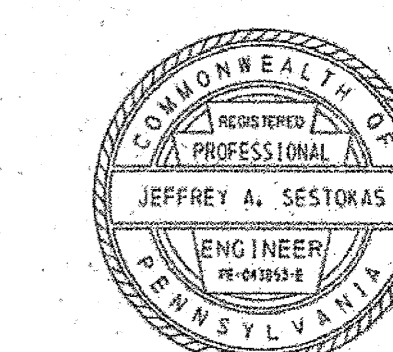
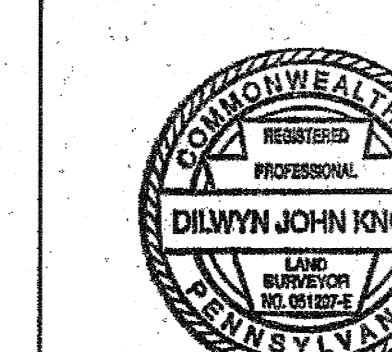
BEFORE ME, A NOTARY PUBLIC, PERSONALLY CAME MARK CHAPPELL, KNOWN TO ME OR SATISFACTORILY PROVEN TO BE THE PERSON WHO HAS BEEN AUTHORIZED BY WRITTEN DELEGATION TO AFFIX THE FACSIMILE SIGNATURE OF MICHAEL B. CARROLL, SECRETARY OF TRANSPORTATION ON PLANS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY BY THE DEPARTMENT OF TRANSPORTATION, AND AS SUCH AUTHORIZED REPRESENTATIVE ACKNOWLEDGED THE WITHIN PLAN, COMPRISING 31 SHEETS, TO BE AN OFFICIAL PLAN OF THE DEPARTMENT OF TRANSPORTATION AND DESIRED THAT THE SAME BE RE-RECORDED.

WITNESS MY HAND AND NOTORIAL SEAL
Mark H. Harris 2/27/2025

REVISION 2 PREPARED BY:

ERDMAN ANTHONY

ONE STERLING PLACE
 100 STERLING PARKWAY, SUITE 212
 MECHANICSBURG, PA 17050

Dilwyn Knott REG PROF SURVEYOR *Jeffrey A. Sestokas* PROF ENGINEER

DATE: 02/26/2025 DATE: 02/26/2025

REVISION 3:

RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC, IN _____ COUNTY, PENNSYLVANIA

INSTRUMENT NO. _____

WITNESS MY HAND AND SEAL OF OFFICE _____

DATE _____

RECORDER _____

REVISION 2:

RECORDED IN THE OFFICE FOR THE RECORDING OF DEEDS, ETC, IN _____ COUNTY, PENNSYLVANIA

INSTRUMENT NO. _____

WITNESS MY HAND AND SEAL OF OFFICE _____

DATE _____

RECORDER _____

SHEET INDEX BLOCK	
DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP AND GENERAL NOTES	3 TO 4*
ALIGNMENT SKETCH	5
TYPICAL SECTIONS	6 TO 8
PLAN AND PROFILE SHEETS	9 TO 20**
PROPERTY PLOTS	21 TO 31***

* - INCLUDES SHEET 4A
 ** - INCLUDES SHEETS 9A, 10A & 11A
 *** - INCLUDES SHEET 25A

ALL REQUIRED RIGHT-OF-WAY FOR THIS PROJECT SHALL BE ACQUIRED IN FEE SIMPLE UNLESS OTHERWISE NOTED. AREAS, IF ANY, NOT TO BE ACQUIRED IN FEE SIMPLE SHALL BE ACQUIRED IN THE LESSER ESTATE OR INTEREST NOTED ON THE PLAN SHEET.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	2 OF 31
		MACLAY ST	R/W	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS			DATE BY
3	UPDATE SHEET INDEX			8/25 EA

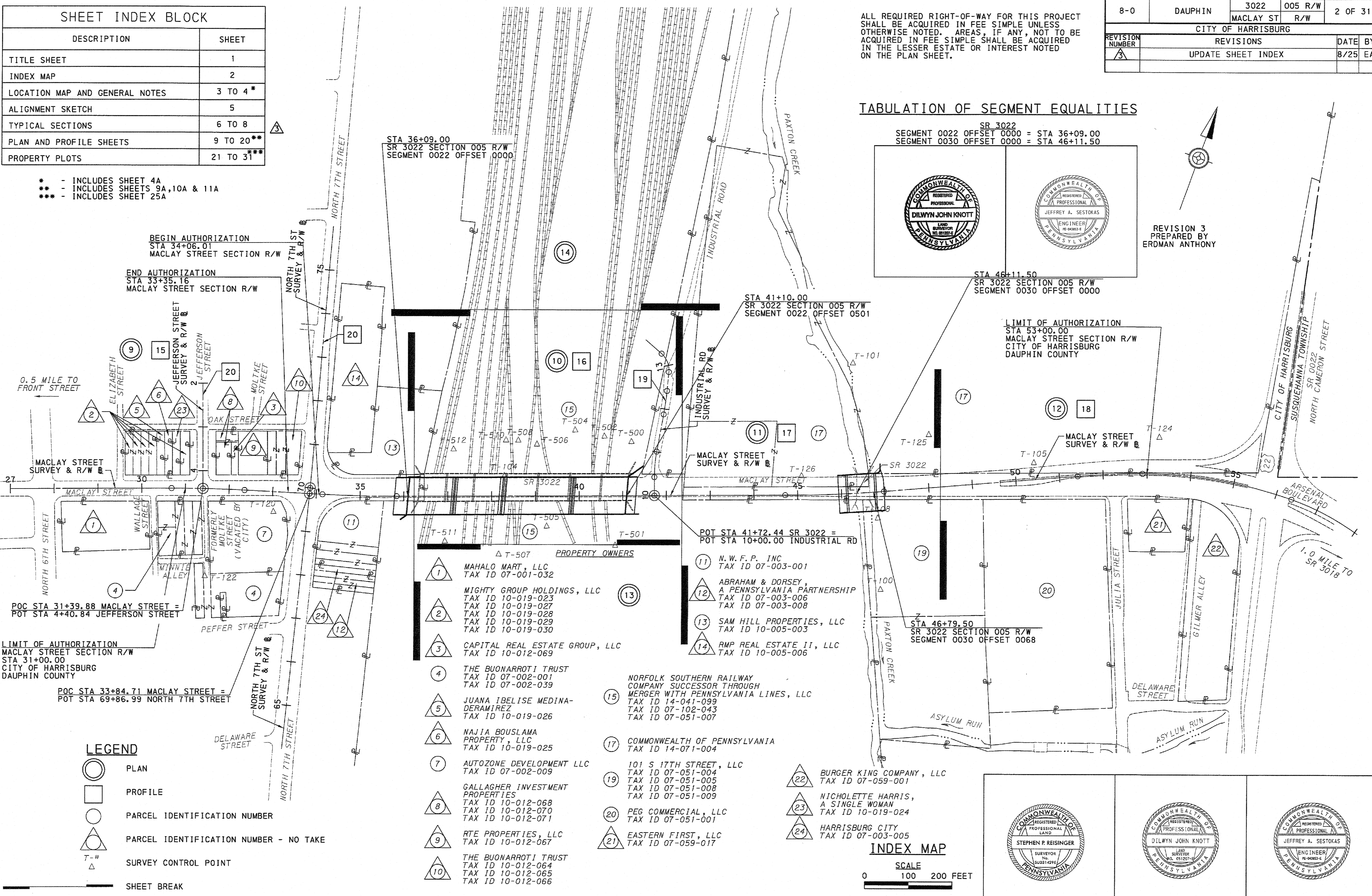
TABULATION OF SEGMENT EQUALITIES

SR 3022
 SEGMENT 0022 OFFSET 0000 = STA 36+09.00
 SEGMENT 0030 OFFSET 0000 = STA 46+11.50

STA 46+11.50
 SR 3022 SECTION 005 R/W
 SEGMENT 0030 OFFSET 0000

STA 41+10.00
 SR 3022 SECTION 005 R/W
 SEGMENT 0022 OFFSET 0501

STA 36+09.00
 SR 3022 SECTION 005 R/W
 SEGMENT 0022 OFFSET 0000



BEGIN AUTHORIZATION
 STA 34+06.01
 MACLAY STREET SECTION R/W

END AUTHORIZATION
 STA 33+35.16
 MACLAY STREET SECTION R/W

LIMIT OF AUTHORIZATION
 STA 53+00.00
 MACLAY STREET SECTION R/W
 CITY OF HARRISBURG
 DAUPHIN COUNTY

0.5 MILE TO FRONT STREET

1.0 MILE TO SR 3018

POC STA 31+39.88 MACLAY STREET =
 POT STA 4+40.84 JEFFERSON STREET

LIMIT OF AUTHORIZATION
 MACLAY STREET SECTION R/W
 STA 31+00.00
 CITY OF HARRISBURG
 DAUPHIN COUNTY

POC STA 33+84.71 MACLAY STREET =
 POT STA 69+86.99 NORTH 7TH STREET

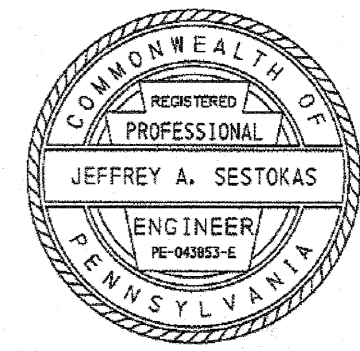
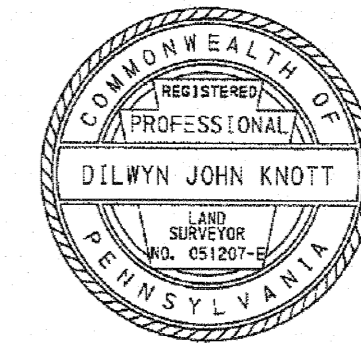
- PROPERTY OWNERS
- 1 MAHALO MART, LLC
TAX ID 07-001-032
 - 2 MIGHTY GROUP HOLDINGS, LLC
TAX ID 10-019-023
TAX ID 10-019-027
TAX ID 10-019-028
TAX ID 10-019-029
TAX ID 10-019-030
 - 3 CAPITAL REAL ESTATE GROUP, LLC
TAX ID 10-012-069
 - 4 THE BUONARROTI TRUST
TAX ID 07-002-001
TAX ID 07-002-039
 - 5 JUANA IBELISE MEDINA-DERAMIREZ
TAX ID 10-019-026
 - 6 NAJIA BOUSLAMA PROPERTY, LLC
TAX ID 10-019-025
 - 7 AUTOZONE DEVELOPMENT LLC
TAX ID 07-002-009
 - 8 GALLAGHER INVESTMENT PROPERTIES
TAX ID 10-012-068
TAX ID 10-012-070
TAX ID 10-012-071
 - 9 RTE PROPERTIES, LLC
TAX ID 10-012-067
 - 10 THE BUONARROTI TRUST
TAX ID 10-012-064
TAX ID 10-012-065
TAX ID 10-012-066
 - 11 N.W.F.P. INC
TAX ID 07-003-001
 - 12 ABRAHAM & DORSEY, A PENNSYLVANIA PARTNERSHIP
TAX ID 07-003-006
TAX ID 07-003-008
 - 13 SAM HILL PROPERTIES, LLC
TAX ID 10-005-003
 - 14 RMP REAL ESTATE II, LLC
TAX ID 10-005-006
 - 15 NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINES, LLC
TAX ID 14-041-099
TAX ID 07-102-043
TAX ID 07-051-007
 - 17 COMMONWEALTH OF PENNSYLVANIA
TAX ID 14-071-004
 - 19 101 S 17TH STREET, LLC
TAX ID 07-051-004
TAX ID 07-051-005
TAX ID 07-051-008
TAX ID 07-051-009
 - 20 PEG COMMERCIAL, LLC
TAX ID 07-051-001
 - 21 EASTERN FIRST, LLC
TAX ID 07-059-017
 - 22 BURGER KING COMPANY, LLC
TAX ID 07-059-001
 - 23 NICHOLETTE HARRIS, A SINGLE WOMAN
TAX ID 10-019-024
 - 24 HARRISBURG CITY
TAX ID 07-003-005

LEGEND

- PLAN
- PROFILE
- PARCEL IDENTIFICATION NUMBER
- △ PARCEL IDENTIFICATION NUMBER - NO TAKE
- T-# SURVEY CONTROL POINT
- SHEET BREAK

INDEX MAP

SCALE
 0 100 200 FEET



REVISION 3
 PREPARED BY
 ERDMAN ANTHONY

TABULATION OF OVERALL LENGTH

SR 3022
 STA 36+09.00 TO STA 41+10.00
 STA 46+11.50 TO STA 46+79.50

MACLAY STREET
 STA 31+00.00 TO STA 53+00.00 = 2200.00 FT = 0.417 MI

TABULATION OF AUTHORIZATION LENGTH

SR 3022
 STA 36+09.00 TO STA 41+10.00
 STA 46+11.50 TO STA 46+79.50

MACLAY STREET
 STA 31+00.00 TO STA 33+35.16 = 235.16 FT = 0.045 MI
 STA 34+06.01 TO STA 53+00.00 = 1893.99 FT = 0.359 MI
 TOTAL = 2129.15 FT = 0.404 MI

LIST OF EQUALITIES

NONE

GENERAL NOTES CONT'D

REQUIRED RIGHT-OF-WAY FOR LOCAL ROADS OR STREETS IS ACQUIRED FOR THE BENEFIT OF THE APPLICABLE MUNICIPALITY IN THE SAME ESTATE OR INTEREST AS DESIGNATED HEREIN FOR REQUIRED RIGHT-OF-WAY FOR STATE HIGHWAY PURPOSES, ALONG WITH A TEMPORARY CONSTRUCTION EASEMENT FOR THE BENEFIT AND USE OF THE COMMONWEALTH. TITLE SHALL VEST IN THE APPLICABLE LOCAL MUNICIPALITY UPON ACQUISITION AND MAINTENANCE RESPONSIBILITY SHALL TRANSFER UPON THE COMPLETION OF CONSTRUCTION.

THE DEPARTMENT RETAINS THE AUTHORITY TO ENTER UPON AND UTILIZE BRIDGE APPROACHES AND RIGHT-OF-WAY AREAS NECESSARY FOR PURPOSES OF CONSTRUCTION, RECONSTRUCTION OR MAINTAINING THE BRIDGE STRUCTURE AND/OR ATTACHED GUIDE RAIL. THE MUNICIPALITY IS RESPONSIBLE FOR PERFORMANCE OF WINTER TRAFFIC SERVICES *INCLUDING SNOW REMOVAL AND APPLICATION OF ANTI-SKID AND DE-ICING MATERIALS" AND CLEANING. IF THE MUNICIPALITY DESIRES TO RESURFACE THE STRUCTURE OR MARK THE CENTERLINE, WRITTEN APPROVAL MUST BE OBTAINED FROM THE DEPARTMENT PRIOR TO THE START OF WORK.

GENERAL NOTES CONT'D

LEGAL RIGHT-OF-WAY CONVERTED TO AERIAL EASEMENT. PROPERTY IN WHICH THE DEPARTMENT INTENDS TO VACATE ITS EXISTING SURFACE EASEMENT FOR HIGHWAY PURPOSES AND RETAIN AN AERIAL EASEMENT AS DEFINED ELSEWHERE ON THIS PLAN. SUBJECT TO THE APPROVAL OF THIS PLAN BY THE GOVERNOR, THE FILING OF THIS PLAN AS A PUBLIC RECORD IN THE OFFICE OF THE DEPARTMENT AND THE RECORDING OF THIS PLAN IN THE COUNTY RECORDER OF DEEDS OFFICE, THIS NOTE SHALL CONSTITUTE AN ORDER OF VACATION PURSUANT TO SECTION 210 OF THE STATE HIGHWAY LAW, 36 P.S. SECTION 670-210, AS TO THE SURFACE EASEMENT FOR HIGHWAY PURPOSES, EFFECTIVE WHEN THE CONSTRUCTION IS COMPLETED.

- WHERE AN AERIAL EASEMENT IS ACQUIRED, IT SHALL INCLUDE AN EASEMENT IN THE AIR FOR THE ACCOMMODATION OF THE ELEVATED HIGHWAY STRUCTURE UNLIMITED IN VERTICAL DIMENSION ABOVE THE STRUCTURE, A SURFACE EASEMENT UNLIMITED IN VERTICAL DIMENSION FOR THE ACCOMMODATION OF PIERS AND OTHER APPURTENANCES AND A TEMPORARY EASEMENT FOR CONSTRUCTION PURPOSES INCLUDING THE STORAGE OF MATERIALS DURING CONSTRUCTION FOR THE ENTIRE AREA. THE FOLLOWING LIMITATIONS SHALL BE IMPOSED ON THE PROPERTY BENEATH THE AREA AFFECTED BY THE AERIAL EASEMENT.
- NO USE SHALL BE MADE OF THE PROPERTY WHICH SHALL ENDANGER THE STRUCTURE OR THE HEALTH, SAFETY OR WELFARE OF THE TRAVELING PUBLIC.
- NO FLAMMABLE, EXPLOSIVE, DANGEROUS OR HAZARDOUS MATERIAL SHALL BE USED, PLACED OR STORED ON THE PROPERTY.
- NO BUILDING OR OTHER FACILITY SHALL BE CONSTRUCTED ON THE PROPERTY WITHOUT PRIOR AUTHORITY OF THE DEPARTMENT OF TRANSPORTATION. IF AND WHEN IF AND WHEN SUCH AUTHORITY IS GRANTED, THE PLANS FOR THE BUILDING OR FACILITY AND CONSTRUCTION METHODS SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION.
- NO INTERFERENCE SHALL BE MADE WITH THE RIGHT OF THE DEPARTMENT OF TRANSPORTATION TO ENTER UPON THE PROPERTY FOR THE PURPOSES OF INSPECTION, MAINTENANCE, REPAIR, PAINTING, RECONSTRUCTION OR ALTERATION OF THE STRUCTURE OR APPURTENANCES. MOVEABLE ITEMS MAY HAVE TO BE REMOVED BY THE OWNER DURING SOME OR ALL OF THE ABOVE OPERATIONS.
- ANY SUBSTANTIAL CHANGE IN PROPERTY USE TO BE MADE SUBSEQUENT TO THE ACQUISITION OF THE EASEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION.
- THE NOTES ON THESE DRAWINGS SHALL NOT BE CONSTRUED AS LIMITING OR INTERFERING IN ANY WAY WITH THE PRESENT AND FUTURE OPERATION, USE, MAINTENANCE, REPAIR, RENEWAL, CHANGE, ADDITION, BETTERMENT OR ALTERATION OF THE RAILROAD AND ITS SUPPORTING FACILITIES.

GENERAL NOTES CONT'D

BUILDINGS AND STRUCTURES MARKED [O] ARE ENCROACHMENTS WHICH ARE THE RESPONSIBILITY OF THE PROPERTY OWNERS TO REMOVE.

THE HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NORTH AMERICAN DATUM (NAD) 1983 (2011), BASED ON CONTROL PROVIDED BY PENNDOT DISTRICT 8-0.

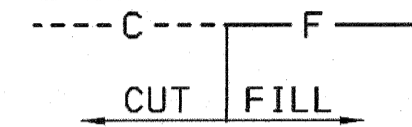
AVERAGE COMBINED FACTOR = 0.99995238.

VERTICAL DATUM IS BASED ON NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88).

ALL CURVE DATA IS BASED ON THE ARC DEFINITION UNLESS OTHERWISE NOTED.

ALL UNITS ARE BASED ON THE US SURVEY FOOT.

PROPOSED SLOPE LIMITS AS SHOWN ON THE PLANS.



THERE ARE NO NAVIGABLE STREAMS ON THIS PROJECT.

TEMPORARY CONSTRUCTION EASEMENT. AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

SLOPE EASEMENT. AN EASEMENT FOR THE SUPPORT AND PROTECTION OF THE HIGHWAY, INCLUDING THE RIGHT TO CONSTRUCT, INSPECT, MAINTAIN, REPAIR, RECONSTRUCT AND ALTER DRAINAGE FACILITIES AND THE CONTOUR OF THE LAND. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY SUPPORT AND PROTECTION OF THE HIGHWAY RIGHT-OF-WAY AND THE SAFETY OF THE TRAVELING PUBLIC.

SLOPE EASEMENT FOR CITY STREET. AN EASEMENT FOR THE SUPPORT AND PROTECTION OF THE HIGHWAY ACQUIRED FOR THE BENEFIT OF THE APPLICABLE MUNICIPALITY, INCLUDING THE RIGHT TO CONSTRUCT, INSPECT, MAINTAIN, REPAIR, RECONSTRUCT AND ALTER DRAINAGE FACILITIES AND THE CONTOUR OF THE LAND. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY SUPPORT AND PROTECTION OF THE HIGHWAY RIGHT-OF-WAY AND THE SAFETY OF THE TRAVELING PUBLIC. TITLE SHALL VEST IN THE APPLICABLE LOCAL MUNICIPALITY UPON ACQUISITION AND MAINTENANCE RESPONSIBILITY SHALL TRANSFER UPON THE COMPLETION OF CONSTRUCTION.

DRAINAGE EASEMENT FOR CITY STREET. AN EASEMENT ACQUIRED FOR THE BENEFIT OF THE APPLICABLE MUNICIPALITY FOR THE CONSTRUCTION, INSPECTION, MAINTENANCE, REPAIR, RECONSTRUCTION AND ALTERATION OF HIGHWAY DRAINAGE FACILITIES. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY FLOW OF WATER. HOWEVER, NO STRUCTURE OF ANY KIND MAY BE ERRECTED IN THE AREA. NOR MAY ANY PIPE OR DITCH BE CONNECTED TO THE MUNICIPALITY'S PIPE OR DITCH WITHOUT ADVANCED WRITTEN APPROVAL BY THE MUNICIPALITY. TITLE SHALL VEST IN THE APPLICABLE LOCAL MUNICIPALITY UPON ACQUISITION AND MAINTENANCE RESPONSIBILITY SHALL TRANSFER UPON THE COMPLETION OF CONSTRUCTION.

THE FILING OF THIS PLAN IS NOT A CONDEMNATION OF THE PROPERTIES DESIGNATED THEREIN OR ANY OTHER PROPERTIES WITHIN THE PROPOSED HIGHWAY PATH AND DOES NOT IN ANY MANNER WHATSOEVER RESTRICT THE USE OR DISPOSAL THEREOF. AUTHORIZATION TO CONDEMN UNDER THIS PLAN EXTENDS FOR ONLY ONE YEAR FROM THE DATE OF THE SECRETARY'S SIGNATURE INITIALLY AUTHORIZING ACQUISITION OR SUBSEQUENTLY REVISING THE PLAN OR REAUTHORIZING ACQUISITION THEREUNDER.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	3 OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS			DATE BY
3	UPDATE AERIAL EASEMENT NOTE			8/25 EA

GENERAL NOTES

THE LEGAL RIGHT OF WAY OF MACLAY STREET, FORMERLY LR 1 SPUR FROM STATION 31+00.00 TO STATION 46+74.32 IS 60 FEET, AS ORDAINED BY THE CITY OF HARRISBURG. MACLAY STREET HAS BEEN PARTIALLY DESIGNATED AS SR 3022 BETWEEN EXISTING STATIONS 46+73 AND 34+08, BASED ON PLANS FOR CONSTRUCTION OF SR 3022 SECTION 002, APPROVED APRIL 1, 1993.

THE LEGAL RIGHT OF WAY OF SR 3022 (MACLAY STREET), FORMERLY LR 1 SPUR F FROM STATION 46+74.32 TO STATION 53+00.00 IS 60 FEET AND VARIABLE, BASED ON DRAWINGS AUTHORIZING CONDEMNATION OF RIGHT OF WAY FOR LR 1 SPUR F SECTION 71 R/W AND LR 22023 SECTION 51 R/W SIGNED BY THE GOVERNOR ON MARCH 19, 1974, AND RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF DAUPHIN COUNTY IN PLAN BOOK 7 PAGE 49.

SR 3022 BETWEEN SEGMENT 0010 OFFSET 000 AND SEGMENT 0030 OFFSET 0967 WAS TRANSFERRED TO THE JURISDICTION OF THE CITY OF HARRISBURG BY SENATE BILL NO. 208 (ACT 96) SUBSECTION 5(A) ON JULY 11, 1996, EXCLUDING (1) THE CONCRETE ARCH BRIDGE OVER PAXTON CREEK LOCATED AT SEGMENT 0030 OFFSET 0000, AND (2) THE SEVEN SPAN STRUCTURE OVER CONRAIL (NOW NORFOLK SOUTHERN) AT SEGMENT 0020 OFFSET 0250.

THE LEGAL RIGHT OF WAY OF SEVENTH STREET IS 65 FEET AND VARIABLE, BASED ON DRAWINGS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY FOR SEVENTH STREET SECTION RDW R/W, APPROVED MARCH 15, 2006 AND RECORDED AS INSTRUMENT NO. 20080007885 ON MARCH 6, 2008 IN OFFICE OF RECORDER OF DEEDS.

THE LEGAL RIGHT OF WAY OF JEFFERSON STREET, FORMERLY 6TH STREET IS 60 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF JULIA STREET IS 50 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF OAK STREET IS 20 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF WALLACE STREET IS 20 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF MOLTKE STREET (NOW VACATED) WAS 16 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

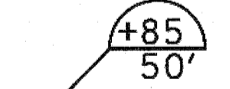
THE LEGAL RIGHT OF WAY OF GILMER ALLEY IS 10 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

INDUSTRIAL ROAD IS A CITY STREET OF UNSPECIFIED WIDTH PASSING THROUGH LANDS OWNED BY THE CITY OF HARRISBURG BY THE TERMS OF CONVEYANCE IN DEED BOOK L55 PAGE 545.

SR 3022 PREVIOUSLY KNOWN AS LR 1.
 ALL REQUIRED RIGHT-OF-WAY FOR THIS PROJECT SHALL BE ACQUIRED IN FEE SIMPLE UNLESS OTHERWISE NOTED. AREAS, IF ANY, NOT TO BE ACQUIRED IN FEE SIMPLE SHALL BE ACQUIRED IN THE LESSER ESTATE OR INTEREST NOTED ON THE PLAN SHEET.

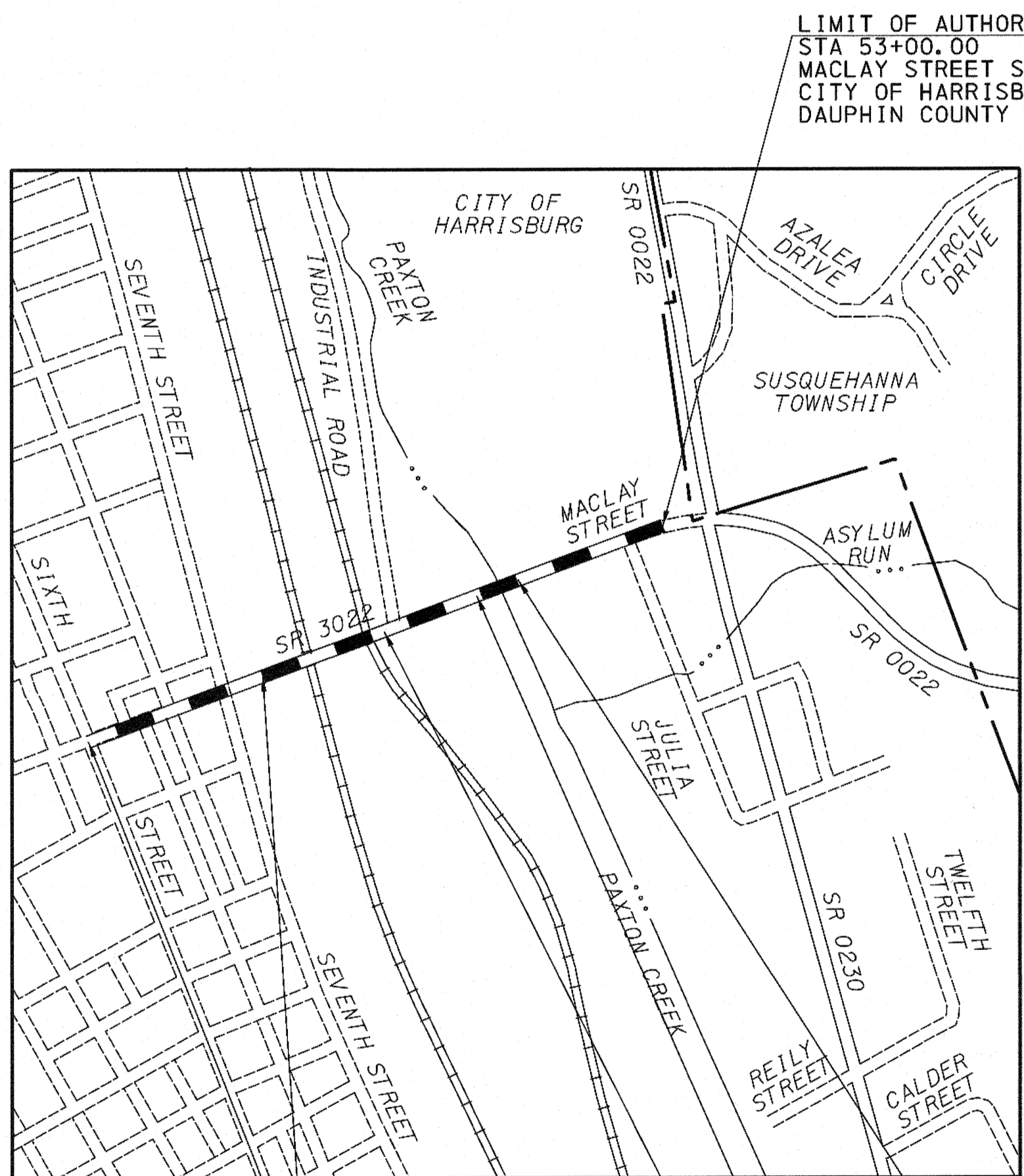
PRIVATE PROPERTY LINES ARE PLOTTED FROM THE DEED OF RECORD, RECORDED SUBDIVISION OR LOT PLANS, EXISTING TOPOGRAPHICAL FEATURES AND LIMITED FIELD DATA. PRIVATE PROPERTY LINES WERE NOT SURVEYED BY THE PROFESSIONAL LAND SURVEYOR RESPONSIBLE FOR THE PROJECT.

THE HALF CIRCLED NUMBER INDICATES A SCALED DIMENSION.



SR 3022 IS AN NHS ROUTE FROM STA 31+37.00 TO STA 53+00.00.

BUILDINGS AND STRUCTURES MARKED [C] HAVE BEEN OR ARE TO BE REMOVED OR ALTERED BY THE DEPARTMENT OR OTHER AUTHORITY RESPONSIBLE FOR THE PAYMENT OF PROPERTY DAMAGES.



LIMIT OF AUTHORIZATION
 MACLAY STREET SECTION R/W
 STA 31+00.00
 CITY OF HARRISBURG
 DAUPHIN COUNTY

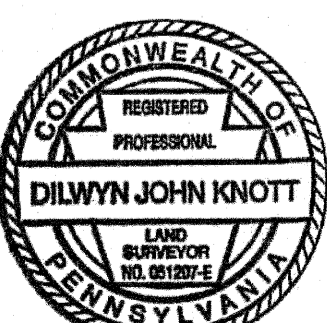
SR 3022 SECTION 005 R/W
 SEGMENT 0022 OFFSET 0501

SR 3022 SECTION 005 R/W
 SEGMENT 0022 OFFSET 0000

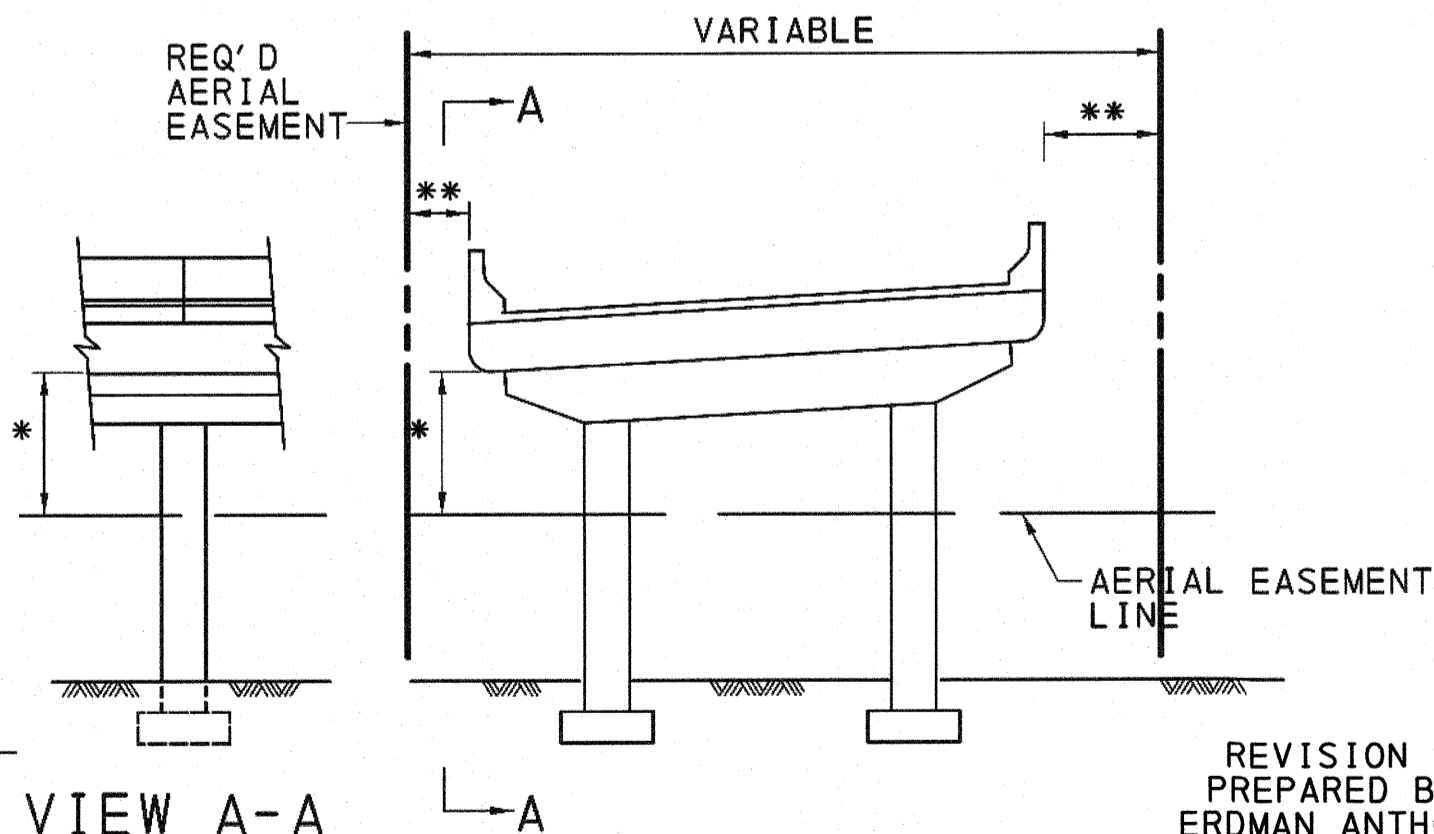
SCALE
 0 500 1000 FEET

LEGEND

- PROJECT
- STATE HIGHWAY
- CITY/TWP ROAD
- CITY/TWP BOUNDARY
- DETOUR
- NONE



AERIAL EASEMENT SKETCH

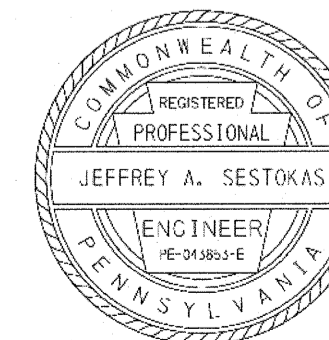
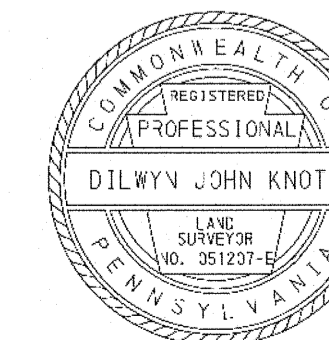
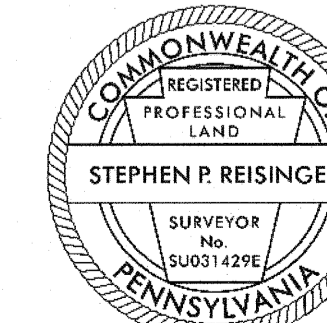
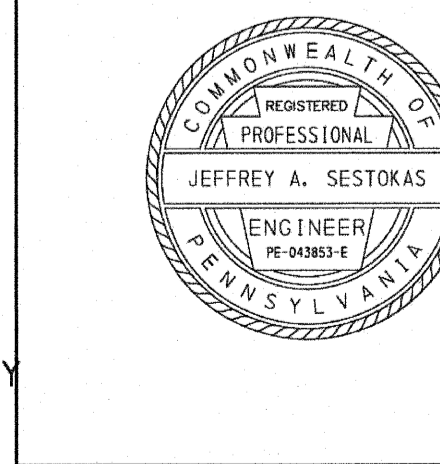


SKETCH SHOWING ESTATE TO BE ACQUIRED OR CONVERTED FOR A LIMITED AERIAL EASEMENT FROM STA 36+12.62 TO STA 41+08.00.

- * ACTUAL DIMENSION 15 FT MINIMUM
- ** ACTUAL DIMENSION 15 FT DESIRABLE

USE OF AIRSPACE BENEATH THE ESTABLISHED GRADE LINE OF THE HIGHWAY SHALL PROVIDE SUFFICIENT VERTICAL AND HORIZONTAL CLEARANCES FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, VENTILATION AND SAFETY OF THE HIGHWAY FACILITY. THE ESTATE ACQUIRED ABOVE THE AERIAL EASEMENT LINE MAY BE ENTERED ON BY MOVING VEHICLES SUCH AS TRUCKS OR RAILROAD ROLLING STOCK.

REVISION 3
 PREPARED BY:
 ERDMAN ANTHONY



- FOR LIST OF PUBLIC UTILITIES, SEE SHEET 4
- FOR TABULATION OF RIGHT-OF-WAY BREAK POINTS, SEE SHEET 4
- FOR SUMMARY OF PROJECT COORDINATES, SEE SHEET 4

LIST OF PUBLIC UTILITIES

FO-ATT AT&T CORPORATION
ONE ATT WAY
BEDMINSTER, NJ 07921
CONTACT: MIKE HUDDLESTON
PHONE: (724) 495-4161
EMAIL: MHUDDLESTON@MBAKERINTL.COM

FO-K KINBER
5775 ALLENTOWN BOULEVARD,
SUITE 101
HARRISBURG, PA 17112
CONTACT: MICHAEL D. CAREY
PHONE: (717) 963-7490
EMAIL: MCAREY@KINBER.ORG

UGI UTILITIES INC.
1 PEI CENTER
WILKES BARRE, PA 18711-0601
CONTACT: GEOFF FERGUSON
PHONE: (610) 807-3118
EMAIL: GFERGUSON@UGI.COM

BRIGHTSPEED
1765 W TRINDLE RD, P.O. BOX 1201
CARLISLE, PA 17013-0905
CONTACT: JOSEPH CENTOBENE
PHONE: (980) 376-1618
EMAIL: JOE.D.CENTOBENE@BRIGHTSPEED.COM

FIRSTLIGHT FIBER, INC
41 STATE STREET
ALBANY, NY 12207
CONTACT: KELLY ROBERTS
PHONE: (570) 872-3119
EMAIL: KROBERTS@FIRSTLIGHT.NET

DQE COMMUNICATIONS LLC
424 SOUTH 27TH STREET, SUITE 220
PITTSBURGH, PA 15203
CONTACT: CHRISTOPHER SMITH
PHONE: (814) 251-2032
EMAIL: CSSMITH@DQE.COM

SHENANDOAH TELECOMMUNICATIONS
COMPANY (SHENTEL)
500 SHENTEL WAY
EDINBURG, VA 22824-0459
CONTACT: KENNETH RUPERT, SR
PHONE: (717) 781-9884
EMAIL: KEN.RUPERT@EMP.SHENTEL.COM

CROWN CASTLE (SUNESYS)
9011 ARBORETUM PARKWAY
RICHMOND, VA 23236
CONTACT: JEFFREY BRACKEN
PHONE: (484) 903-4024
EMAIL: JEFFREY.BRACKEN@CROWNCastle.COM

VERIZON PENNSYLVANIA LLC
(PIKE TELECOM)
900 RACE STREET, 6TH FLOOR
PHILADELPHIA, PA 19107
CONTACT: PHILLIP POLISKI
PHONE: (717) 991-1589
EMAIL: PPOLISKI@PIKE.COM

SUMMARY OF PROJECT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE)
AVERAGE COMBINED FACTOR = 0.99995238

Table with columns: ROUTE, STATION, POINT, COORDINATES (NORTHING, EASTING), BEARING. Rows include MACLAY STREET SURVEY & R/W, JEFFERSON ST SURVEY & R/W, NORTH 7TH ST SURVEY & R/W, INDUSTRIAL RD SURVEY & R/W.

Table with columns: DISTRICT, COUNTY, ROUTE, SECTION, SHEET. Values: 8-0, DAUPHIN, 3022, 005 R/W, 4 OF 31.

TABULATION OF REQUIRED RIGHT-OF-WAY BREAK POINT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE)
AVERAGE COMBINED FACTOR = 0.99995238

Table with columns: ROUTE, STATION, OFFSET, COORDINATES (NORTH, EAST). Rows list stationing from 31+37.00 to 53+00.00.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

THE PA ONE CALL SYSTEM, INC TELEPHONE 1-800-242-1776,
SERIAL NOS. 201725105021, 20211103803, 20211103961,
20211104034, 20211104109, 20211104188, 20211104255, &
20211104316 FOR THE CITY OF HARRISBURG.

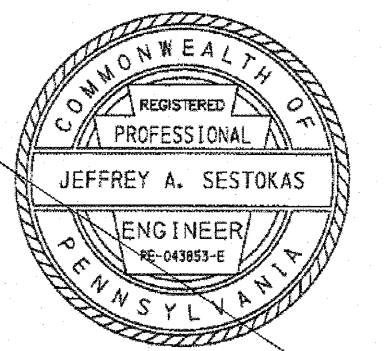
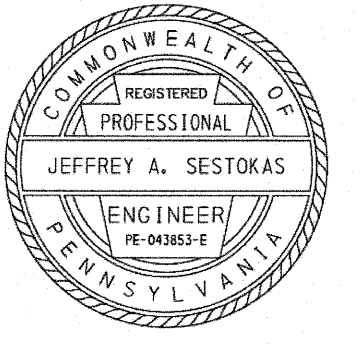
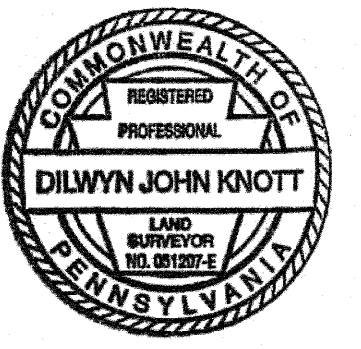
TABULATION OF CONTROL POINT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE)
AVERAGE COMBINED FACTOR = 0.99995238

Table with columns: POINT NUMBER, DESCRIPTION, COORDINATES (NORTH, EAST), ELEVATION. Rows include T-100, T-101, T-104, T-105, T-108, T-120, T-122, T-124, T-125, T-126, T-500, T-501, T-502, T-504, T-505, T-506, T-507, T-508, T-510, T-511, T-512.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.



DATE: 9/25/2024 TIME: 5:01:30 AM
FILENAME: N:\57839-01-Moc\lay 51\Drawings\ROW\lan\Cover_Idx\3022005R\WRN10003A.dgn

LIST OF PUBLIC UTILITIES

FO-ATT AT&T CORPORATION ONE ATT WAY BEDMINSTER, NJ 07921 CONTACT: MIKE HUDDLESTON PHONE: (724) 495-4161 EMAIL: MHUDDLESTON@BAKERINTL.COM
W S CAPITAL REGION WATER 3003 NORTH FRONT STREET HARRISBURG, PA 17110 CONTACT: JEFF BOWRA PHONE: (717) 525-7677 EMAIL: JEFF.BOWRA@CAPITALREGIONWATER.COM
FOU-CL LUMEN (TELECOM) 100 CENTURY LINK DRIVE MONROE, LA 71203 CONTACT: PAUL ERICKSON PHONE: (717) 506-7405 EMAIL: PAUL.ERICKSON@LUMEN.COM
CTV COMCAST 4601 SMITH STREET HARRISBURG, PA 17109 CONTACT: MICHAEL SWEIGARD PHONE: (717) 298-6947 EMAIL: MIKE.SWEIGARD@CABLE.COMCAST.COM
FO-FC FRONTIER COMMUNICATIONS OF PA INC 100 CTE DRIVE DALLAS, PA 18612 CONTACT: ROBERT JANUSZKO PHONE: (570) 788-1200 EMAIL: ROBERT.JANUSZKO@FTR.COM

FO-K KINBER 5775 ALLENTOWN BOULEVARD, SUITE 101 HARRISBURG, PA 17112 CONTACT: MICHAEL D. CAREY PHONE: (717) 963-7490 EMAIL: MCAREY@KINBER.ORG
E PPL ELECTRIC UTILITIES 2 NORTH 9TH STREET ALLENTOWN, PA 18101-1179 CONTACT: RYAN HAAS PHONE: (610) 774-6270 EMAIL: RRHAAS@PPLWEB.COM
FO-SC SHENANDOAH TELECOMMUNICATIONS COMPANY (SHENTEL) 500 SHENTEL WAY EDINBURG, VA 22824-0459 CONTACT: KENNETH RUPERT, SR PHONE: (717) 781-9884 EMAIL: KEN.RUPERT@EMP.SHENTEL.COM
FO-S CROWN CASTLE (SUNESYS) 9011 ARBORETUM PARKWAY RICHMOND, VA 23236 CONTACT: JEFFREY BRACKEN PHONE: (484) 903-4024 EMAIL: JEFFREY.BRACKEN@CROWNCastle.COM
T-VZ VERIZON PENNSYLVANIA LLC (PIKE TELECOM) 900 RACE STREET, 6TH FLOOR PHILADELPHIA, PA 19107 CONTACT: PHILLIP POLISKI PHONE: (717) 991-1589 EMAIL: PPOLISKI@PIKE.COM

G UGI UTILITIES INC. 1 PEI CENTER WILKES BARRE, PA 18711-0601 CONTACT: GEOFF FERGUSON PHONE: (610) 807-3118 EMAIL: GFERGUSON@UGI.COM
BRIGHTSPEED 1765 W TRINDLE RD, P.O. BOX 1201 CARLISLE, PA 17013-0905 CONTACT: JOSEPH CENTOBENE PHONE: (980) 376-1618 EMAIL: JOE.D.CENTOBENE@BRIGHTSPEED.COM
FIRSTLIGHT FIBER, INC 41 STATE STREET ALBANY, NY 12207 CONTACT: KELLY ROBERTS PHONE: (570) 872-3119 EMAIL: KROBERTS@FIRSTLIGHT.NET
DQE COMMUNICATIONS LLC 424 SOUTH 27TH STREET, SUITE 220 PITTSBURGH, PA 15203 CONTACT: CHRISTOPHER SMITH PHONE: (814) 251-2032 EMAIL: CSSMITH@DQE.COM

THE PA ONE CALL SYSTEM, INC TELEPHONE 1-800-242-1776, SERIAL NOS. 201725105021, 20211103803, 20211103961, 20211104034, 20211104109, 20211104188, 20211104255, & 20211104316 FOR THE CITY OF HARRISBURG.

SUMMARY OF PROJECT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE) AVERAGE COMBINED FACTOR = 0.99995238

Table with columns: ROUTE, STATION, POINT, COORDINATES (NORTHING, EASTING), BEARING. Rows include MACLAY STREET SURVEY & R/W, JEFFERSON ST SURVEY & R/W, NORTH 7TH ST SURVEY & R/W, INDUSTRIAL RD SURVEY & R/W.

TABULATION OF CONTROL POINT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE) AVERAGE COMBINED FACTOR = 0.99995238

Table with columns: POINT NUMBER, DESCRIPTION, COORDINATES (NORTH, EAST), ELEVATION. Lists control points T-100 through T-512.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

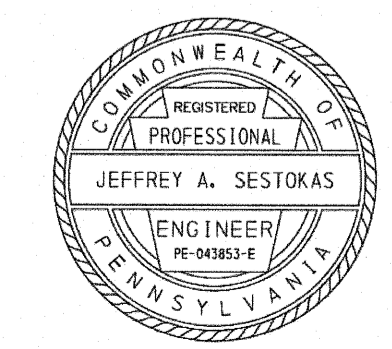
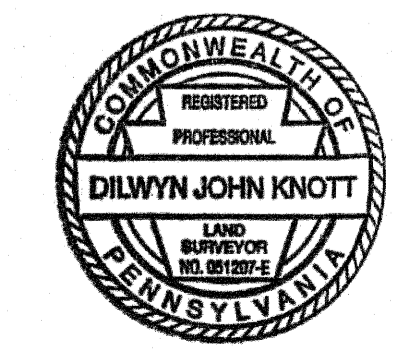
DISTRICT 8-0 COUNTY DAUPHIN ROUTE 3022 SECTION 005 R/W SHEET 4A OF 31 CITY OF HARRISBURG REVISION NUMBER 3 DATE 8/25 BY EA

TABULATION OF REQUIRED RIGHT-OF-WAY BREAK POINT COORDINATES BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE) AVERAGE COMBINED FACTOR = 0.99995238

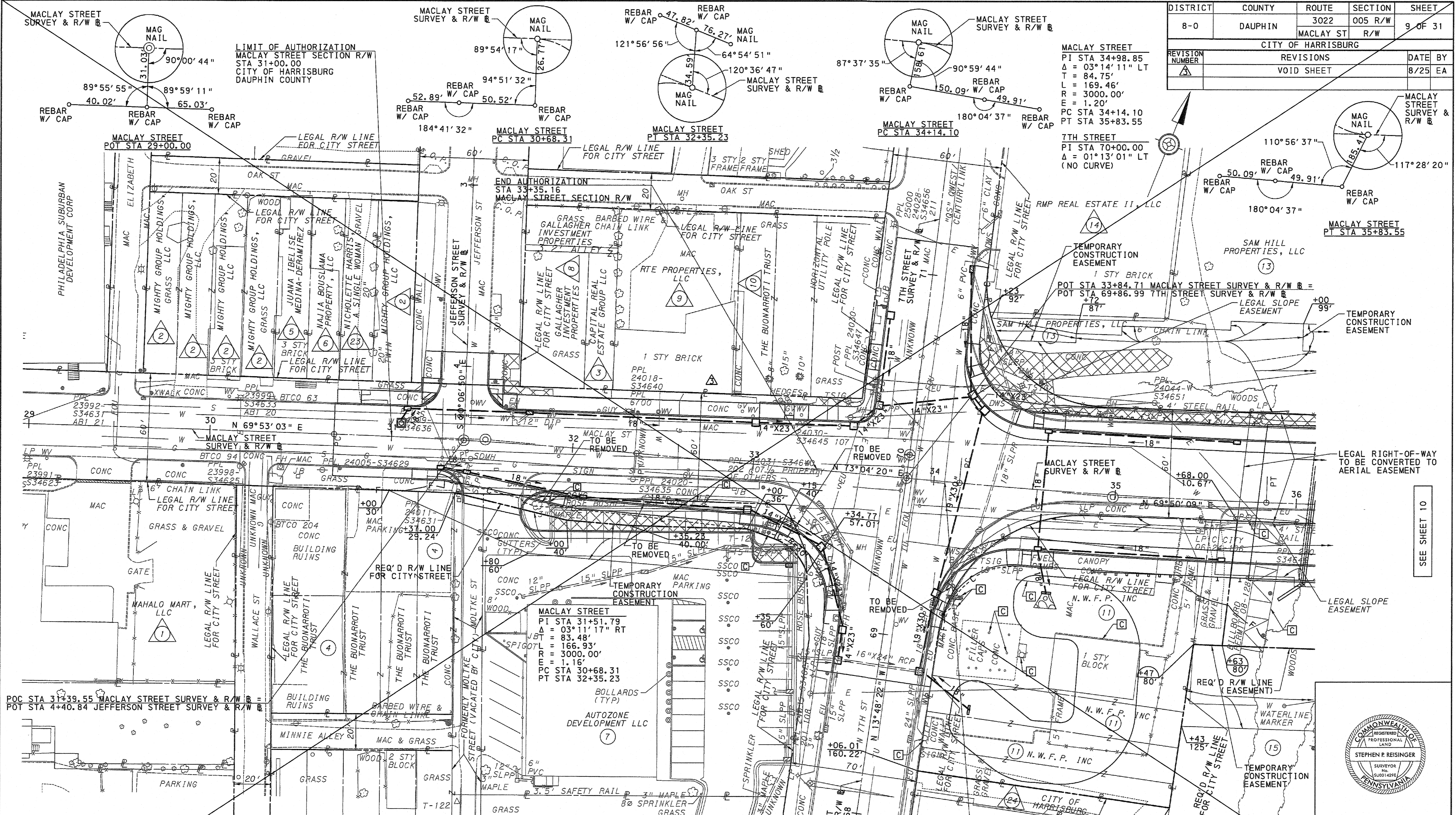
Table with columns: ROUTE, STATION, OFFSET, COORDINATES (NORTH, EAST). Rows include MACLAY STREET SURVEY & R/W and INDUSTRIAL RD SURVEY & R/W.

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.

REVISION 3 PREPARED BY ERDMAN ANTHONY



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	9 OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
Δ	VOID SHEET	8/25	EA	



MACLAY STREET
 PI STA 34+98.85
 Δ = 03°14'11" LT
 T = 84.75'
 L = 169.46'
 R = 3000.00'
 E = 1.20'
 PC STA 34+14.10
 PT STA 35+83.55

7TH STREET
 PI STA 70+00.00
 Δ = 01°13'01" LT
 (NO CURVE)

MACLAY STREET
 PI STA 31+51.79
 Δ = 03°11'17" RT
 T = 83.48'
 L = 166.93'
 R = 3000.00'
 E = 1.16'
 PC STA 30+68.31
 PT STA 32+35.23

POC STA 31+39.55 MACLAY STREET SURVEY & R/W
 POT STA 4+40.84 JEFFERSON STREET SURVEY & R/W

LEGEND

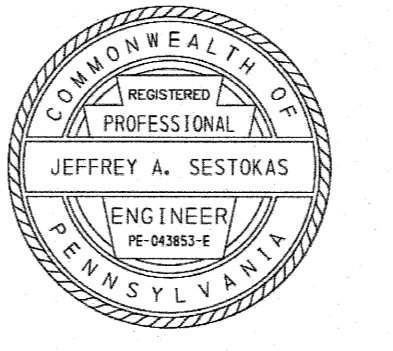
XXXX - EXISTING PAVEMENT REMOVAL

FOR CLAIM INFORMATION, SEE SHEET NO.			
PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
4	21	7	22
11	23	13	24
15	25-26		

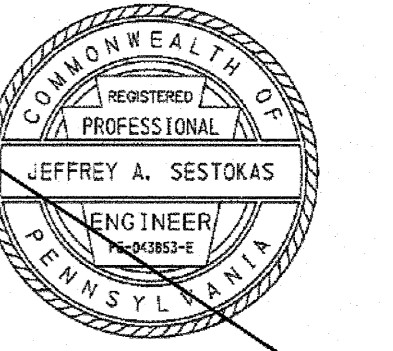
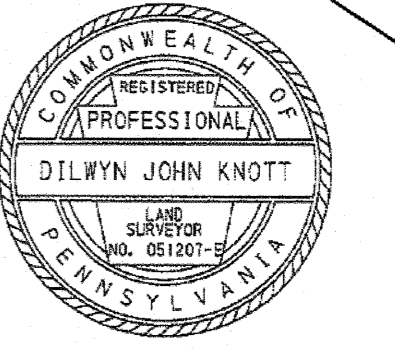


SCALE
 0 25 50 FEET

REVISION 3
 PREPARED BY
 ERDMAN ANTHONY



BEGIN AUTHORIZATION
 STA 34+06.01
 MACLAY STREET SECTION R/W



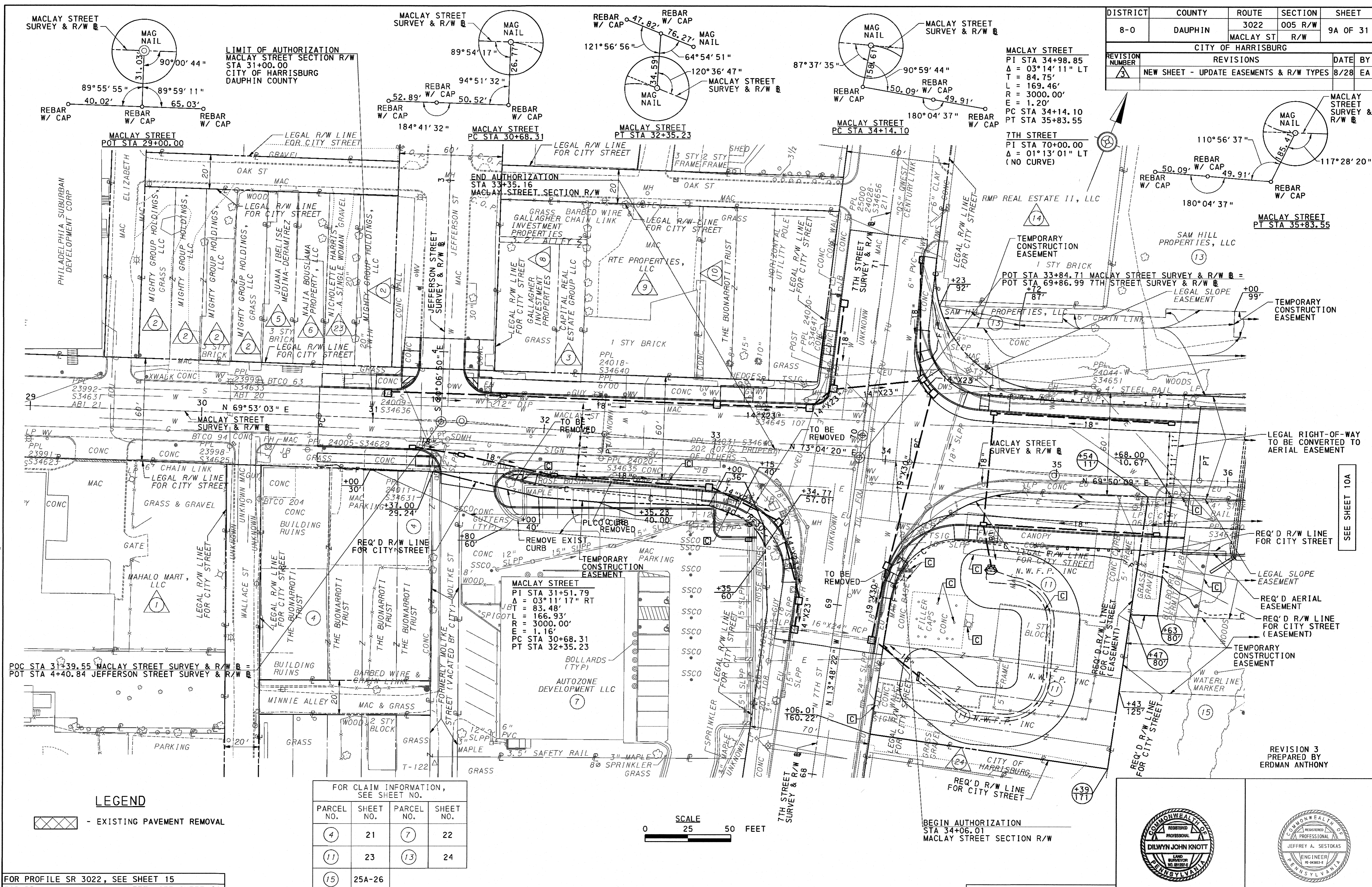
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 7270, 7271

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FOR PROFILE SR 3022, SEE SHEET 15
 FOR PROFILE JEFFERSON STREET, SEE SHEET 20
 FOR PROFILE 7TH STREET, SEE SHEET 20

SEE SHEET 10

DATE: 11/25/2025 TIME: 12:02:19 PM
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	9A OF 31

CITY OF HARRISBURG		
REVISION NUMBER	REVISIONS	DATE BY
3	NEW SHEET - UPDATE EASEMENTS & R/W TYPES	8/28 EA

MACLAY STREET
 PI STA 34+98.85
 Δ = 03°14'11" LT
 T = 84.75'
 L = 169.46'
 R = 3000.00'
 E = 1.20'
 PC STA 34+14.10
 PT STA 35+83.55

7TH STREET
 PI STA 70+00.00
 Δ = 01°13'01" LT
 (NO CURVE)

LIMIT OF AUTHORIZATION
 MACLAY STREET SECTION R/W
 STA 31+00.00
 CITY OF HARRISBURG
 DAUPHIN COUNTY

END AUTHORIZATION
 STA 33+35.16
 MACLAY STREET SECTION R/W

MACLAY STREET
 PI STA 31+51.79
 Δ = 03°11'17" RT
 T = 83.48'
 L = 166.93'
 R = 3000.00'
 E = 1.16'
 PC STA 30+68.31
 PT STA 32+35.23

SEE SHEET 10A

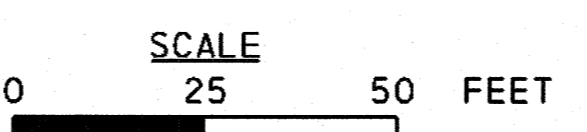
REVISION 3
 PREPARED BY
 ERDMAN ANTHONY

LEGEND

- EXISTING PAVEMENT REMOVAL

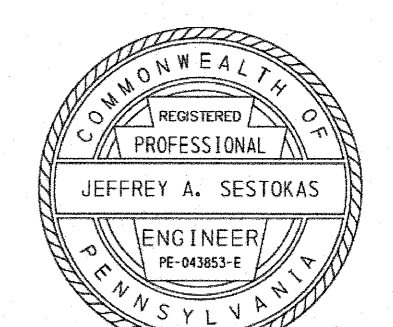
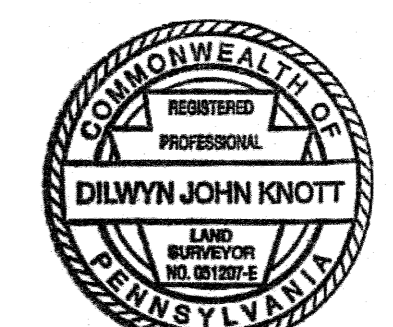
FOR CLAIM INFORMATION, SEE SHEET NO.

PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
4	21	7	22
11	23	13	24
15	25A-26		



FOR PROFILE SR 3022, SEE SHEET 15
 FOR PROFILE JEFFERSON STREET, SEE SHEET 20
 FOR PROFILE 7TH STREET, SEE SHEET 20

SURVEY BOOK NOS. 6848, 7001
 7270, 7271



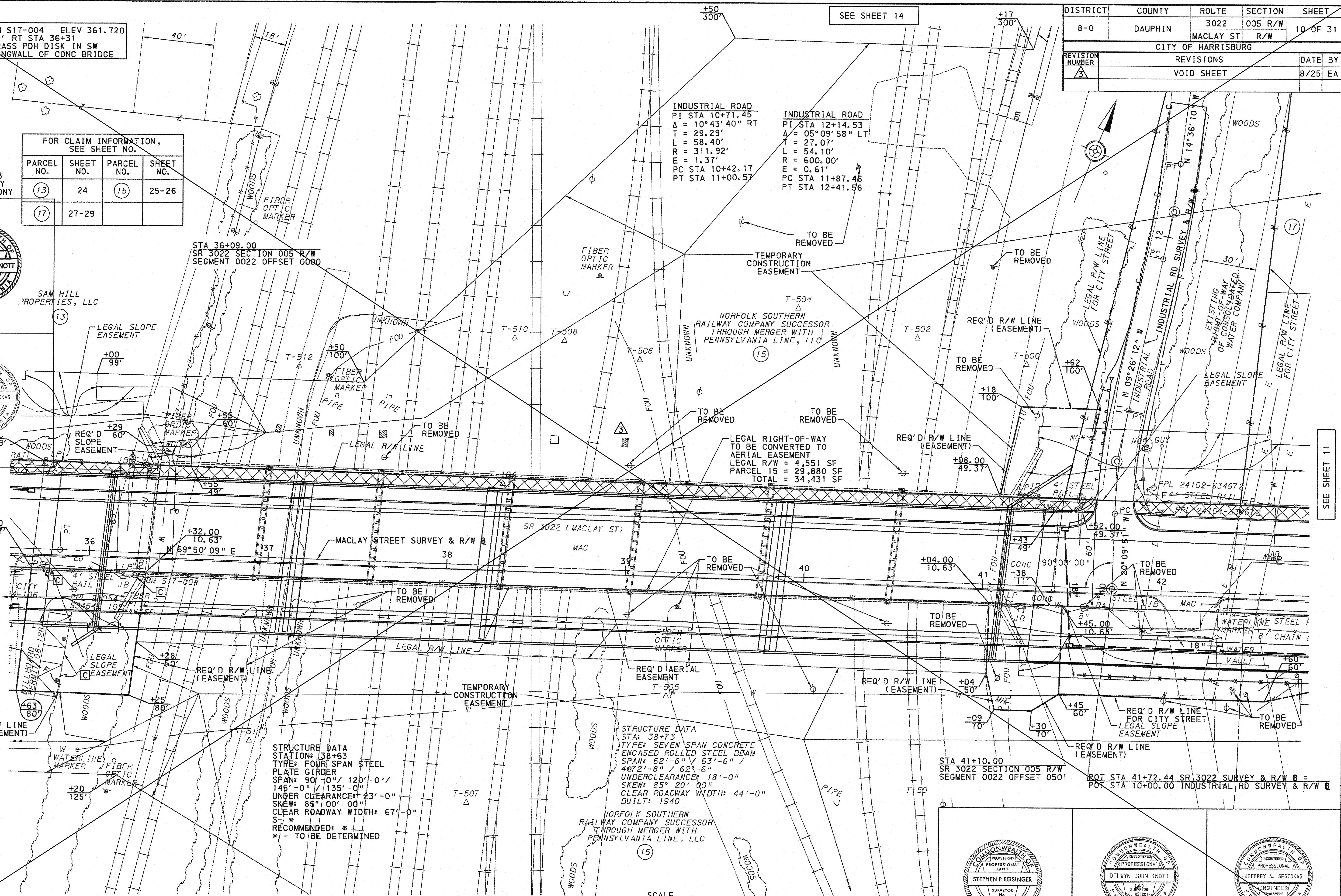
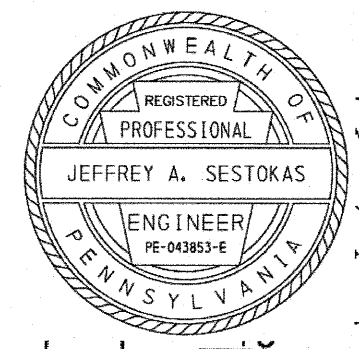
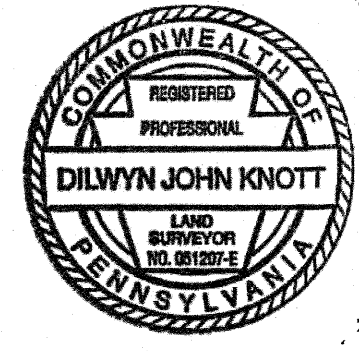
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	10 OF 31
MACLAY ST R/W				
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
3	VOID SHEET	8/25	EA	

BM S17-004 ELEV 361.720
 13' RT STA 36+31
 BRASS PDH DISK IN SW
 WINGWALL OF CONC BRIDGE

FOR CLAIM INFORMATION,
SEE SHEET NO.

PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
13	24	15	25-26
17	27-29		

REVISION 3
 PREPARED BY
 ERDMAN ANTHONY



STRUCTURE DATA
 STATION: 38+63
 TYPE: FOUR SPAN STEEL
 PLATE GIRDER
 SPAN: 90'-0" / 120'-0" /
 145'-0" / 135'-0"
 UNDER CLEARANCE: 23'-0"
 SKEW: 85° 00' 00"
 CLEAR ROADWAY WIDTH: 67'-0"
 S*
 RECOMMENDED: *
 *- TO BE DETERMINED

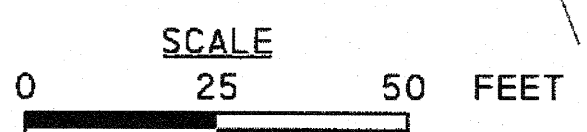
STRUCTURE DATA
 STA: 38+73
 TYPE: SEVEN SPAN CONCRETE
 ENCASED ROLLED STEEL BEAM
 SPAN: 62'-6" / 63'-6" /
 40'2"-8" / 62'-6"
 UNDERCLEARANCE: 18'-0"
 SKEW: 85° 20' 00"
 CLEAR ROADWAY WIDTH: 44'-0"
 BUILT: 1940

NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC

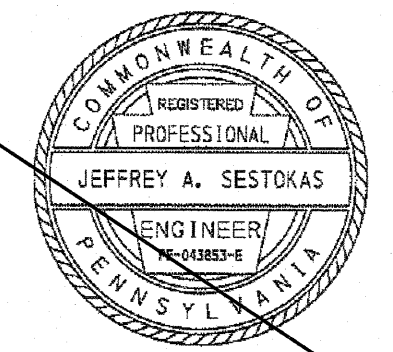
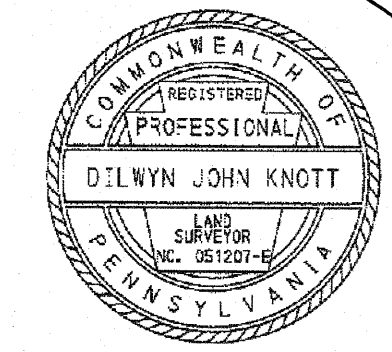
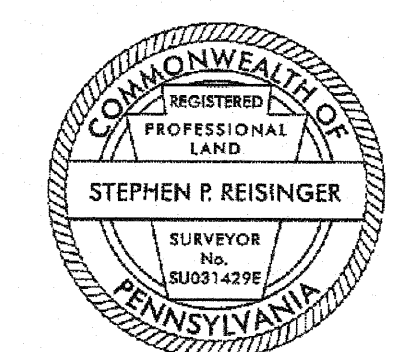
LEGEND

- EXISTING PAVEMENT REMOVAL

SEE SHEET 13



SURVEY BOOK NOS. 6848, 7001
 7270, 7271



DATE: 9/25/2024 TIME: 8:50:39 AM
 FILE NAME: N:\37839-01-MacLay ST Drawings\SR3022\05-RW\PL02.dgn

FOR PROFILE SR 3022, SEE SHEET 16
 FOR PROFILE INDUSTRIAL RD, SEE SHEET 19

SEE SHEET 9

SEE SHEET 14

SEE SHEET 11

BM S17-004 ELEV 361.720
13' RT STA 36+31
BRASS PDH DISK IN SW
WINGWALL OF CONC BRIDGE

FOR CLAIM INFORMATION,
SEE SHEET NO.

PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
13	24	15	25A-26
17	27-29		

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	10A OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
3	NEW SHEET - UPDATE EASEMENTS & R/W TYPES	8/28	EA	

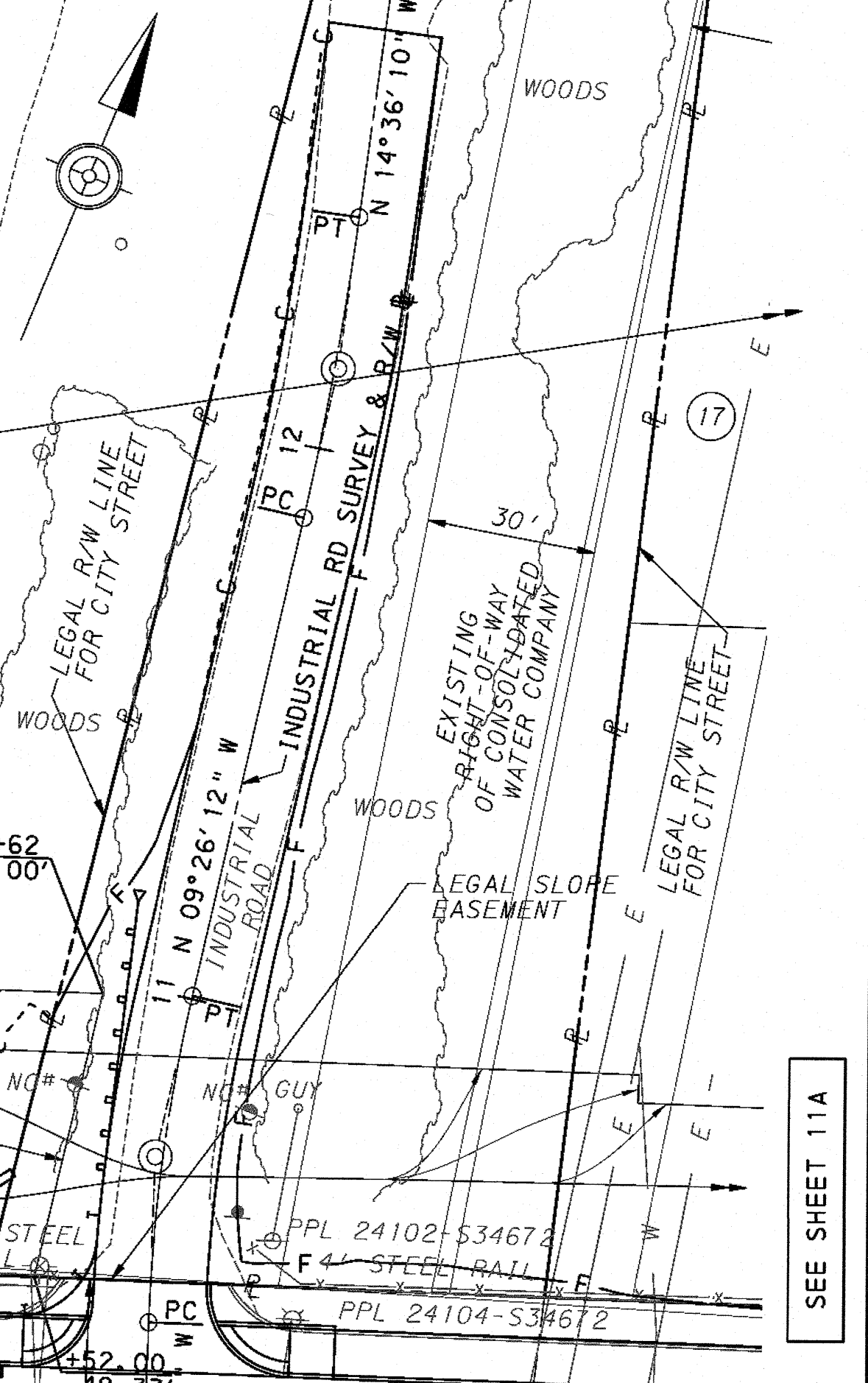
INDUSTRIAL ROAD
PI STA 10+71.45
Δ = 10°43'40" RT
T = 29.29'
L = 58.40'
R = 311.92'
E = 1.37'
PC STA 10+42.17
PT STA 11+00.57

INDUSTRIAL ROAD
PI STA 12+14.53
Δ = 05°09'58" LT
T = 27.07'
L = 54.10'
R = 600.00'
E = 0.61'
PC STA 11+87.46
PT STA 12+41.56

STA 36+09.00
SR 3022 SECTION 005 R/W
SEGMENT 0022 OFFSET 0000

SAM HILL PROPERTIES, LLC
13

NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC
15



LEGAL RIGHT-OF-WAY TO BE CONVERTED TO AERIAL EASEMENT
LEGAL R/W = 4,551 SF
PARCEL 15 = 29,880 SF
TOTAL = 34,431 SF

PROPOSED STRUCTURE DATA
STATION: 38+59.50
TYPE: FOUR SPAN STEEL PLATE GIRDER
SPAN: 105'-0" / 110'-0" / 160'-0" / 125'-0"
UNDERCLEARANCE: 23'-0"
SKEW: 85° 00' 00"
CLEAR ROADWAY WIDTH: 67'-0"
STRUCTURE: S-42336
RECOMMENDED: *
* - TO BE DETERMINED

STRUCTURE DATA
STA: 38+73
TYPE: SEVEN SPAN CONCRETE ENCASED ROLLED STEEL BEAM
SPAN: 62'-6" / 63'-6" / 48'2'-8" / 62'-6"
UNDERCLEARANCE: 18'-0"
SKEW: 85° 20' 00"
CLEAR ROADWAY WIDTH: 44'-0"
BUILT: 1940

NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC
15

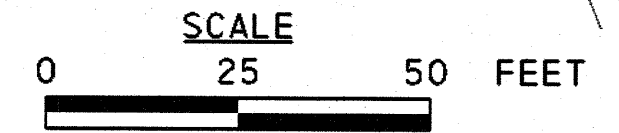
STA 41+10.00
SR 3022 SECTION 005 R/W
SEGMENT 0022 OFFSET 0501

POT STA 41+72.44 SR 3022 SURVEY & R/W B =
POT STA 10+00.00 INDUSTRIAL RD SURVEY & R/W B

LEGEND

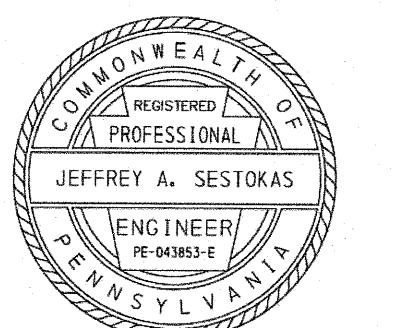
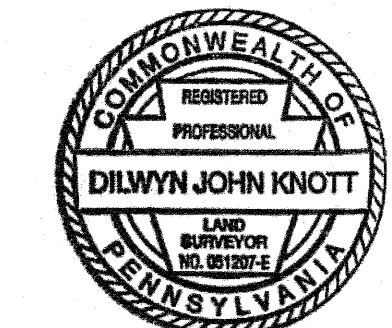
XXXX - EXISTING PAVEMENT REMOVAL

SEE SHEET 13



SURVEY BOOK NOS. 6848, 7001, 7270, 7271

REVISION 3
PREPARED BY
ERDMAN ANTHONY

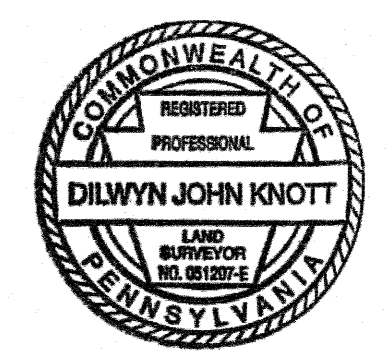
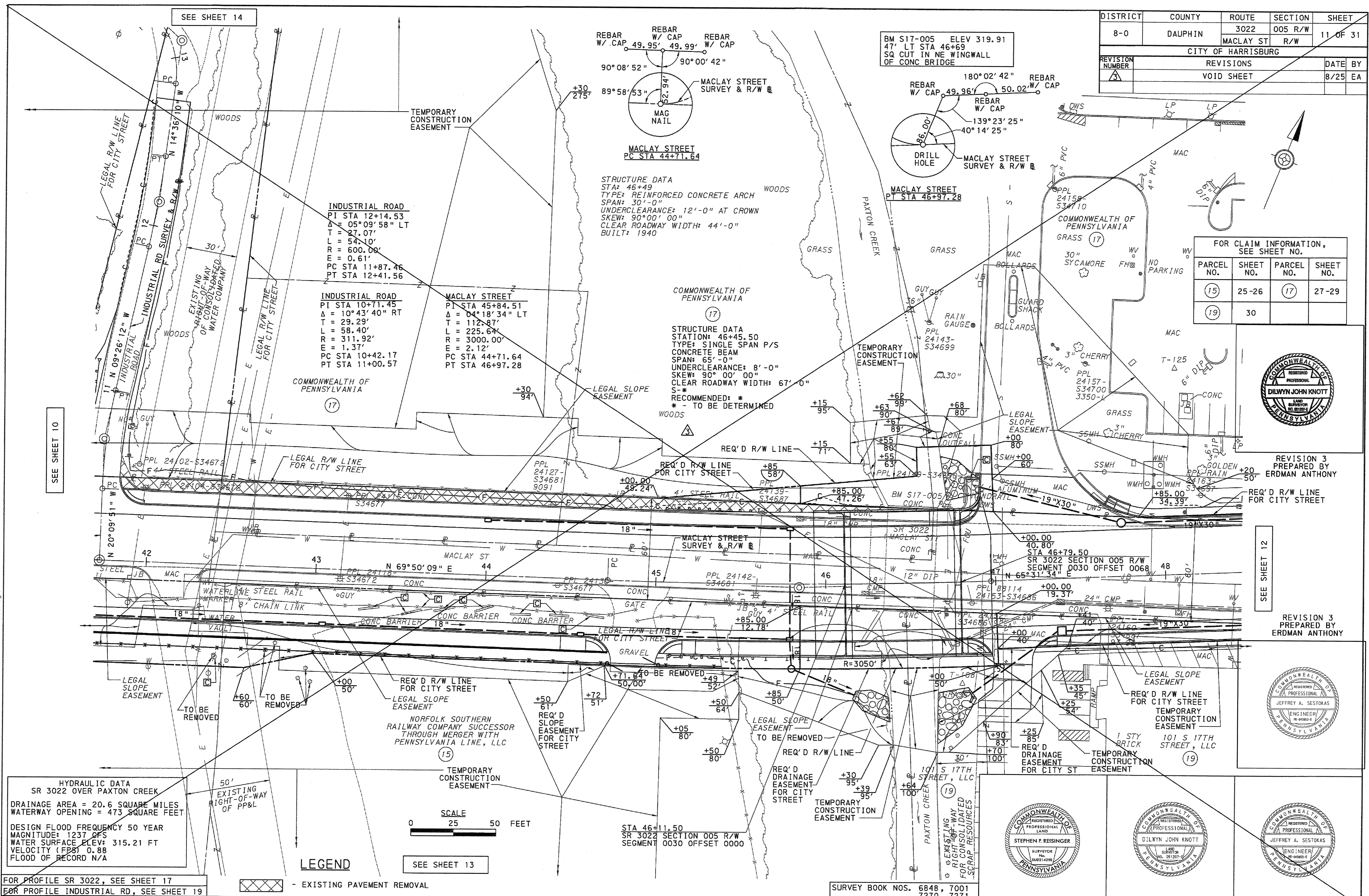


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FOR PROFILE SR 3022, SEE SHEET 16
FOR PROFILE INDUSTRIAL RD, SEE SHEET 19

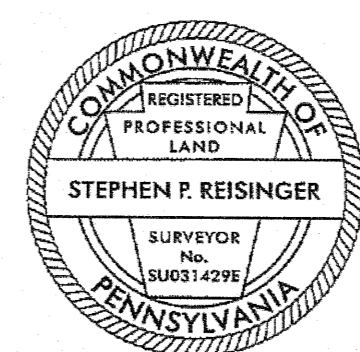
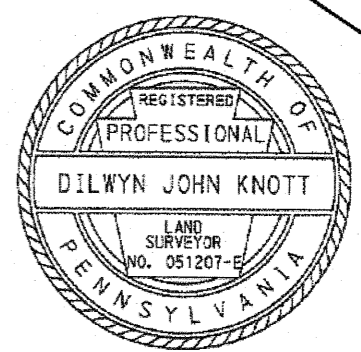
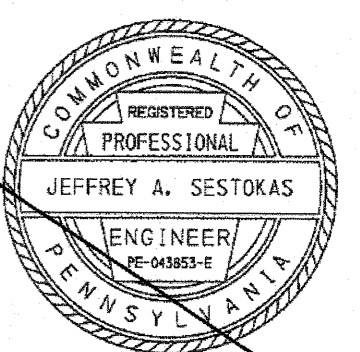
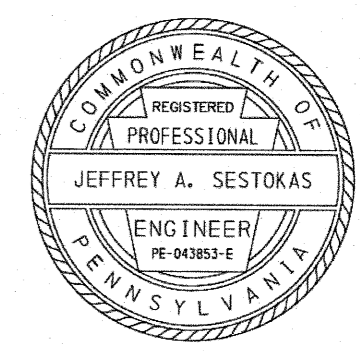
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	11 OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
△	VOID SHEET	8/25	EA	

FOR CLAIM INFORMATION, SEE SHEET NO.			
PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
15	25-26	17	27-29
19	30		

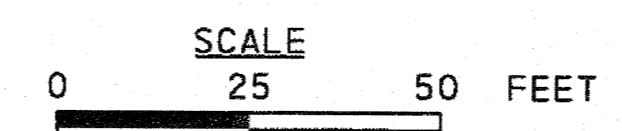


REVISION 3 PREPARED BY ERDMAN ANTHONY

REVISION 3 PREPARED BY ERDMAN ANTHONY



HYDRAULIC DATA
SR 3022 OVER PAXTON CREEK
DRAINAGE AREA = 20.6 SQUARE MILES
WATERWAY OPENING = 473 SQUARE FEET
DESIGN FLOOD FREQUENCY 50 YEAR
MAGNITUDE: 1237 CFS
WATER SURFACE ELEV.: 315.21 FT
VELOCITY (FPS): 0.88
FLOOD OF RECORD N/A



LEGEND

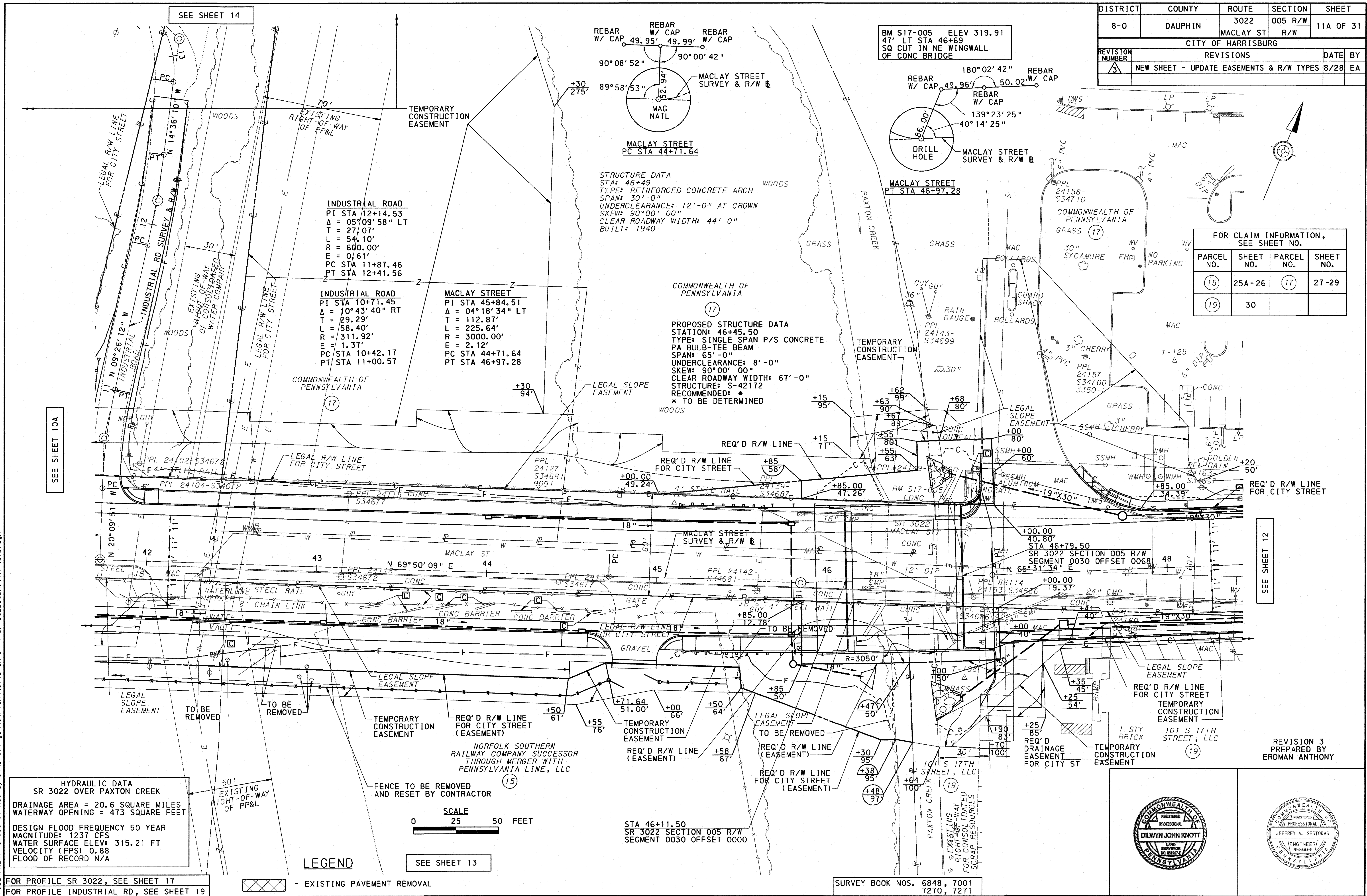
EXISTING PAVEMENT REMOVAL

FOR PROFILE SR 3022, SEE SHEET 17
FOR PROFILE INDUSTRIAL RD, SEE SHEET 19

SURVEY BOOK NOS. 6848, 7001, 7270, 7271

DATE: 9/25/2024 TIME: 8:50:39 AM FILENAME: \\S1839-01-Maclay_ST\Drawings\SR3022\05_RWP_L03.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	11A OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
3	NEW SHEET - UPDATE EASEMENTS & R/W TYPES	8/28	EA	



FOR CLAIM INFORMATION, SEE SHEET NO.

PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
15	25A-26	17	27-29
19	30		

STRUCTURE DATA
 STA: 46+49
 TYPE: REINFORCED CONCRETE ARCH
 SPAN: 30'-0"
 UNDERCLEARANCE: 12'-0" AT CROWN
 SKEW: 90°00'00"
 CLEAR ROADWAY WIDTH: 44'-0"
 BUILT: 1940

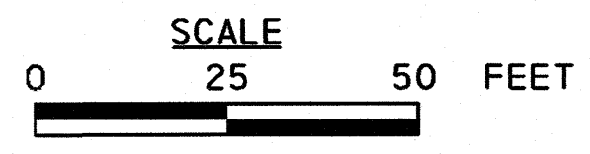
PROPOSED STRUCTURE DATA
 STATION: 46+45.50
 TYPE: SINGLE SPAN P/S CONCRETE
 PA BULB-TEE BEAM
 SPAN: 65'-0"
 UNDERCLEARANCE: 8'-0"
 SKEW: 90°00'00"
 CLEAR ROADWAY WIDTH: 67'-0"
 STRUCTURE: S-42172
 RECOMMENDED: *
 * TO BE DETERMINED

INDUSTRIAL ROAD
 PI STA 12+14.53
 Δ = 05°09'58" LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 11+87.46
 PT STA 12+41.56

INDUSTRIAL ROAD
 PI STA 10+71.45
 Δ = 10°43'40" RT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

MACLAY STREET
 PI STA 45+84.51
 Δ = 04°18'34" LT
 T = 112.87'
 L = 225.64'
 R = 3000.00'
 E = 2.12'
 PC STA 44+71.64
 PT STA 46+97.28

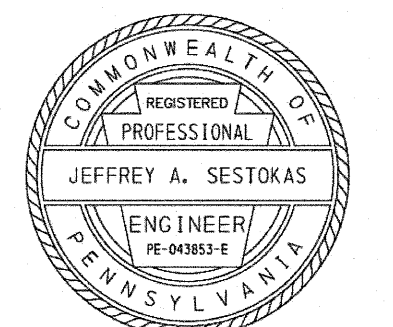
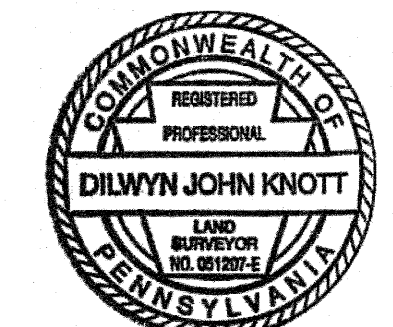
HYDRAULIC DATA
 SR 3022 OVER PAXTON CREEK
 DRAINAGE AREA = 20.6 SQUARE MILES
 WATERWAY OPENING = 473 SQUARE FEET
 DESIGN FLOOD FREQUENCY 50 YEAR
 MAGNITUDE: 1237 CFS
 WATER SURFACE ELEV: 315.21 FT
 VELOCITY (FPS) 0.88
 FLOOD OF RECORD N/A



LEGEND
 [Symbol] - EXISTING PAVEMENT REMOVAL

FOR PROFILE SR 3022, SEE SHEET 17
 FOR PROFILE INDUSTRIAL RD, SEE SHEET 19

SURVEY BOOK NOS. 6848, 7001
 7270, 7271



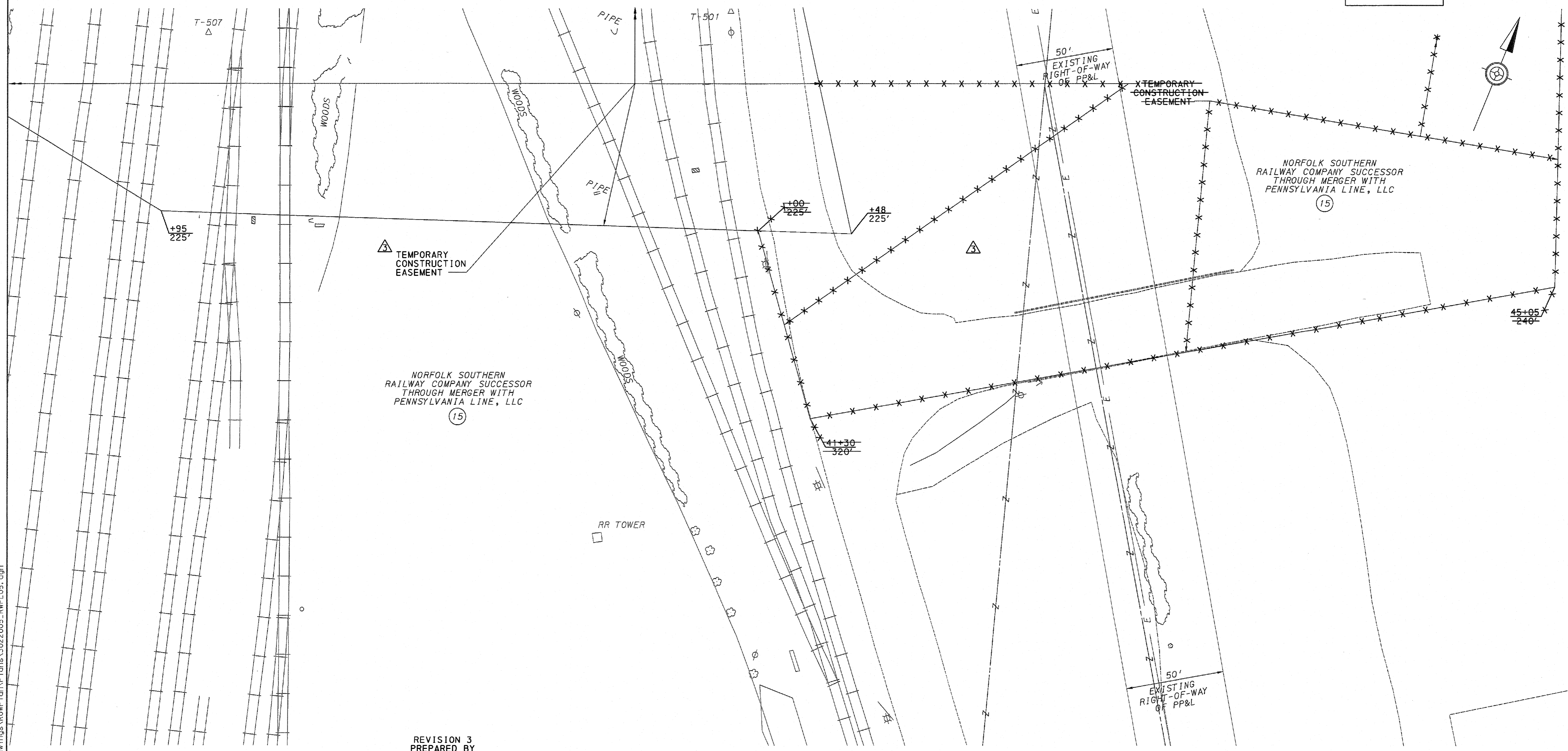
REVISION 3
 PREPARED BY
 ERDMAN ANTHONY

DATE: 11/25/2025 TIME: 12:42 PM FILENAME: S:\1839-01-MacLay St\Drawings\Rev\11A-Rev3.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 R/W R/W	13 OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
3	UPDATE TEMP CONSTRUCTION EASEMENT	8/25	EA	

SEE SHEET 10A

SEE SHEET ++ 11A

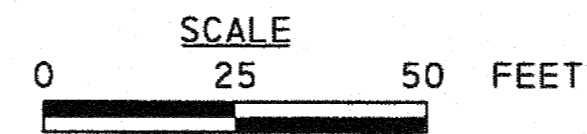
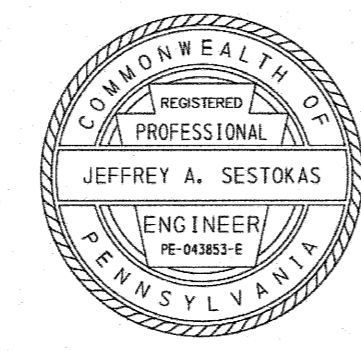


REVISION 3
PREPARED BY
ERDMAN ANTHONY

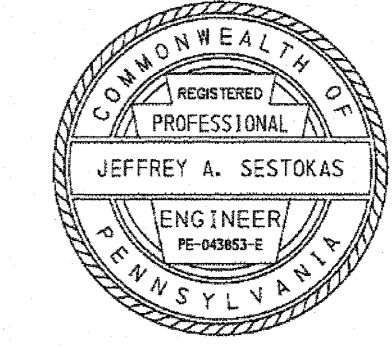
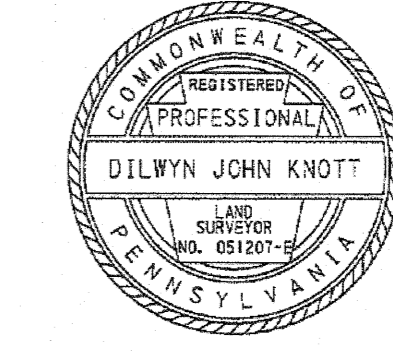
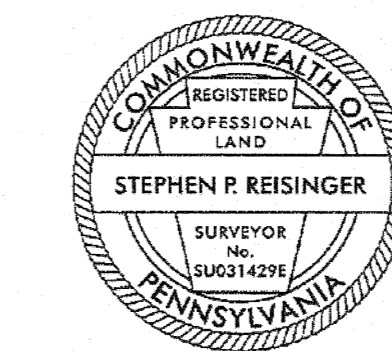
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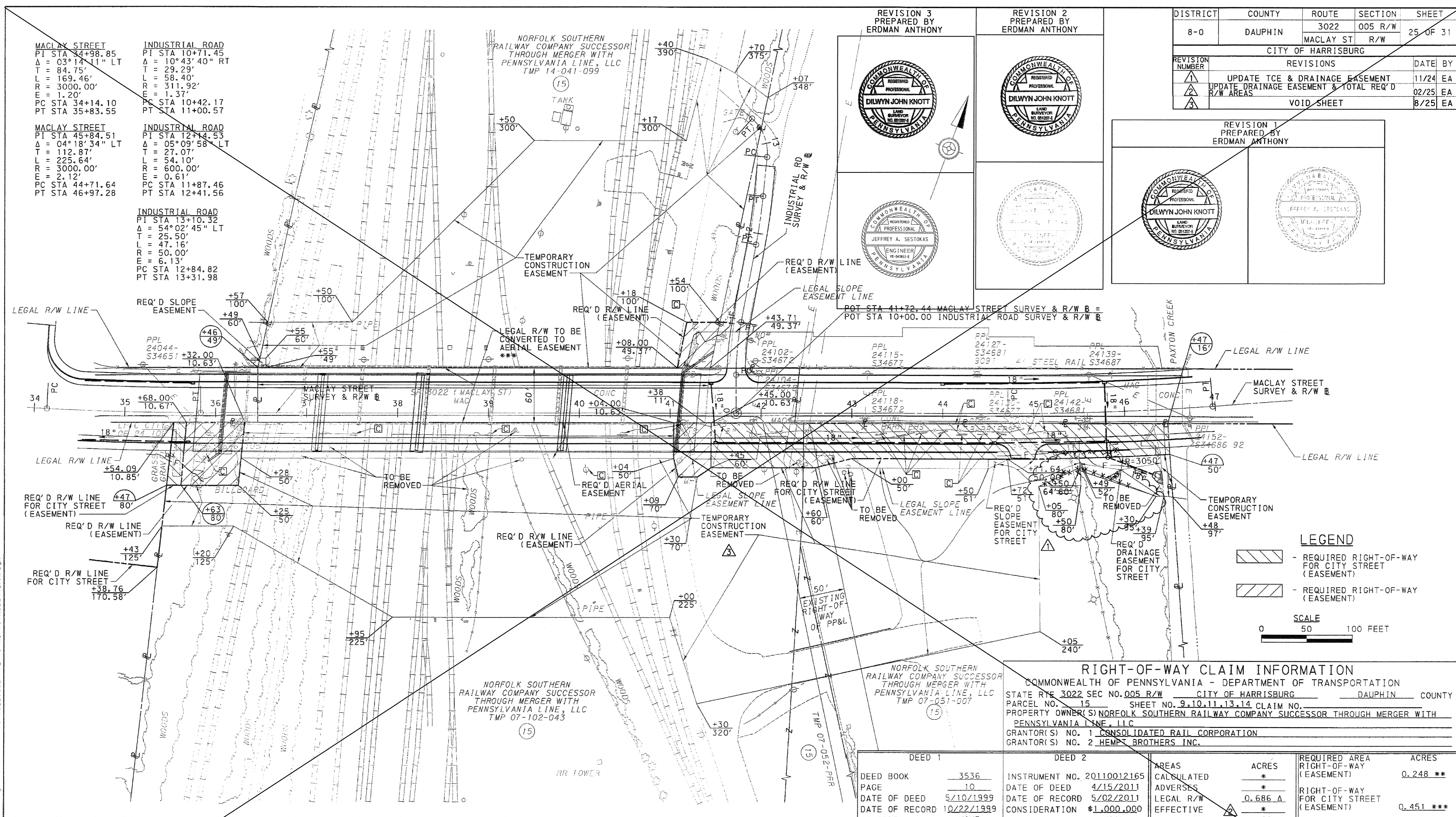
FOR CLAIM INFORMATION,
SEE SHEET NO.

PARCEL NO.	SHEET NO.	PARCEL NO.	SHEET NO.
(15)	25-26 25A		



SURVEY BOOK NOS. 6848, 7001
7270, 7271





MACLAY STREET
 PI STA 34+98.85
 $\Delta = 03^{\circ}14'11''$ LT
 T = 84.75'
 L = 169.46'
 R = 3000.00'
 E = 1.20'
 PC STA 34+14.10
 PT STA 35+83.55

INDUSTRIAL ROAD
 PI STA 10+71.45
 $\Delta = 10^{\circ}43'40''$ LT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

MACLAY STREET
 PI STA 45+84.51
 $\Delta = 04^{\circ}18'34''$ LT
 T = 112.87'
 L = 225.64'
 R = 3000.00'
 E = 2.12'
 PC STA 44+71.64
 PT STA 46+97.28

INDUSTRIAL ROAD
 PI STA 12+14.53
 $\Delta = 05^{\circ}09'58''$ LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 12+84.82
 PT STA 13+31.98

INDUSTRIAL ROAD
 PI STA 13+10.32
 $\Delta = 54^{\circ}02'45''$ LT
 T = 25.50'
 L = 47.16'
 R = 50.00'
 E = 6.13'
 PC STA 12+84.82
 PT STA 13+31.98

REVISION 3
PREPARED BY
ERDMAN ANTHONY

REVISION 2
PREPARED BY
ERDMAN ANTHONY

REVISION 1
PREPARED BY
ERDMAN ANTHONY

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 R/W R/W	25 OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
1	UPDATE TCE & DRAINAGE EASEMENT	11/24	EA	
2	UPDATE DRAINAGE EASEMENT & TOTAL REQ'D R/W AREAS	02/25	EA	
3	VOID SHEET	8/25	EA	

LEGEND

- REQUIRED RIGHT-OF-WAY FOR CITY STREET (EASEMENT)

- REQUIRED RIGHT-OF-WAY (EASEMENT)

SCALE

0 50 100 FEET

RIGHT-OF-WAY CLAIM INFORMATION

COMMONWEALTH OF PENNSYLVANIA - DEPARTMENT OF TRANSPORTATION

STATE RTE 3022 SEC NO. 005 R/W CITY OF HARRISBURG DAUPHIN COUNTY

PARCEL NO. 15 SHEET NO. 9, 10, 11, 13, 14 CLAIM NO.

PROPERTY OWNER(S) NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC

GRANTOR(S) NO. 1 CONSOLIDATED RAIL CORPORATION

GRANTOR(S) NO. 2 HEMPT BROTHERS INC.

DEED 1	DEED 2	AREAS	ACRES	REQUIRED AREA RIGHT-OF-WAY (EASEMENT)	ACRES
DEED BOOK 3536	INSTRUMENT NO. 20110012165	CALCULATED	*	RIGHT-OF-WAY FOR CITY STREET (EASEMENT)	0.248 **
PAGE 10	DATE OF DEED 4/15/2011	ADVERSES	*	RIGHT-OF-WAY FOR CITY STREET (EASEMENT)	0.451 ***
DATE OF DEED 5/10/1999	DATE OF RECORD 5/02/2011	LEGAL R/W	0.686 Δ	SLOPE EASEMENT	0.002
DATE OF RECORD 10/22/1999	CONSIDERATION \$1,000,000	EFFECTIVE	*	SLOPE EASEMENT FOR CITY STREET	0.002
CONSIDERATION NONE	TAX STAMPS N/A	TOTAL REQ'D R/W	1.196 $\Delta\Delta$	AERIAL EASEMENT Δ	0.428
TAX STAMPS N/A	TAX MAP 07	TOTAL RESIDUE	1.196 *	DRAINAGE EASEMENT FOR CITY STREET Δ	0.064
TAX MAP ∇	PARCEL NO. 051-007	RESIDUE LT	*	TEMP CONSTR EASEMENT Δ	6.049
PARCEL NO. ∇		RESIDUE RT	*	VERIFICATION DATE 2/20/2024	EA
∇ - 07-102-043				DRAWN BY	EA
∇ - 07-052-PRR				SCALE: AS SHOWN	
∇ - 07-051-007					
∇ - 14-041-099					

* - TOO INNUMERABLE TO CALCULATE

** - REQ'D R/W (EASEMENT) INCLUDES: 0.108 ACRES LEGAL SLOPE EASEMENT

*** - REQ'D R/W FOR CITY STREET INCLUDES: 0.362 ACRE OF LEGAL SLOPE EASEMENT

Δ - 0.686 ACRES OF LEGAL R/W TO BE CONVERTED TO AERIAL EASEMENT

$\Delta\Delta$ - TOTAL REQ'D R/W INCLUDES: R/W (EASEMENT), R/W FOR CITY STREET (EASEMENT), AND REQ'D AERIAL EASEMENT

AA - TOTAL REQ'D R/W AREA INCLUDES: R/W (EASEMENT), R/W FOR CITY STREET (EASEMENT), SLOPE EASEMENT, SLOPE EASEMENT FOR CITY STREET, REQ'D AERIAL EASEMENT AND DRAINAGE EASEMENT FOR CITY STREET

DATE: 9/25/2024 TIME: 5:04:47 AM FILENAME: N57839-01-Maclay_S11DrawFig1.VROPT.dwg PLOT: 3022005_RWPLT15-NorfolkSouthern.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005 R/W	25A OF 31
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	
3	NEW SHEET - UPDATE EASEMENTS, R/W TYPES & CLAIM BLOCK INFORMATION	8/25	EA	

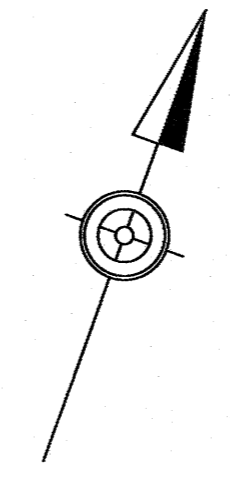
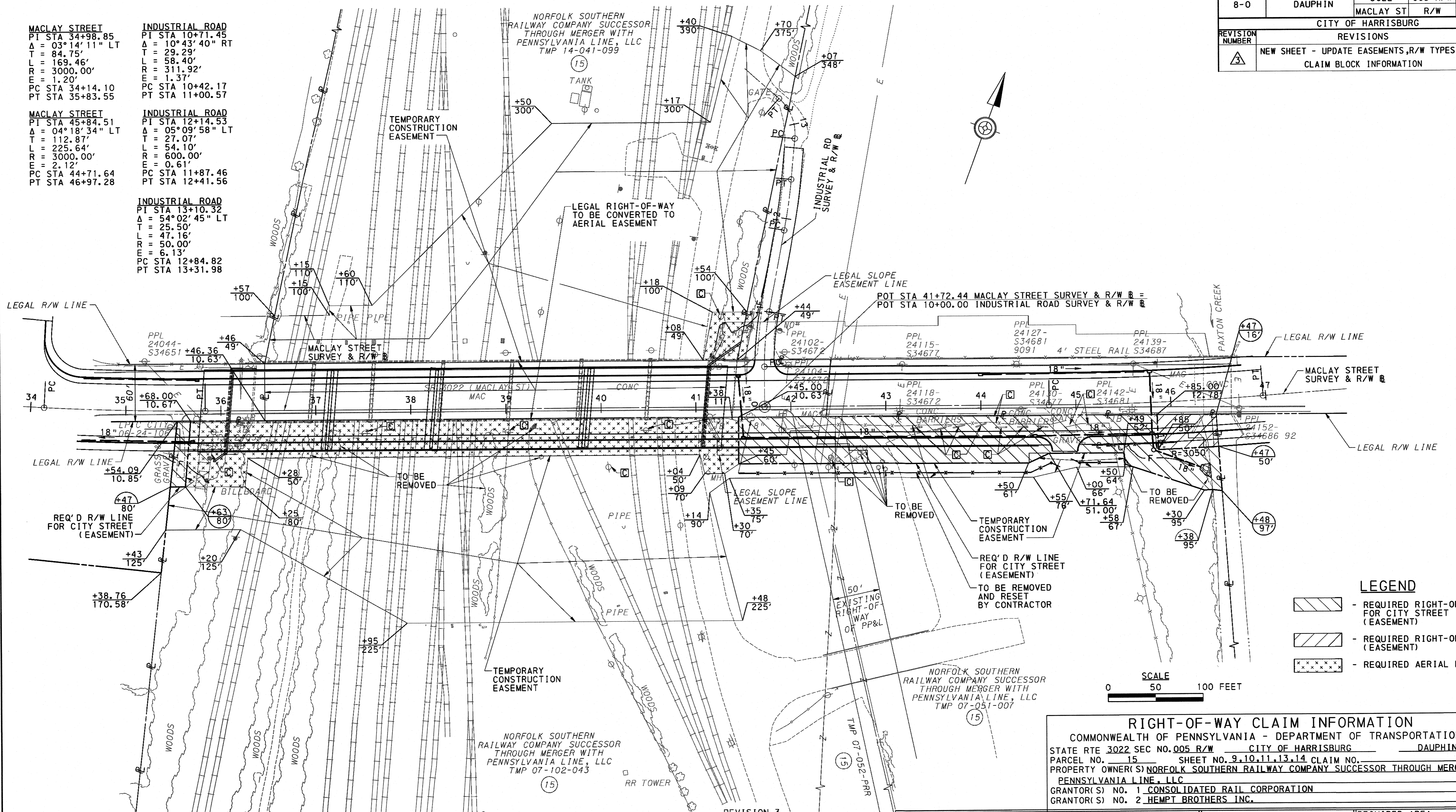
MACLAY STREET
 PI STA 34+98.85
 Δ = 03° 14' 11" LT
 T = 84.75'
 L = 169.46'
 R = 3000.00'
 E = 1.20'
 PC STA 34+14.10
 PT STA 35+83.55

INDUSTRIAL ROAD
 PI STA 10+71.45
 Δ = 10° 43' 40" RT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

MACLAY STREET
 PI STA 45+84.51
 Δ = 04° 18' 34" LT
 T = 112.87'
 L = 225.64'
 R = 3000.00'
 E = 2.12'
 PC STA 44+71.64
 PT STA 46+97.28

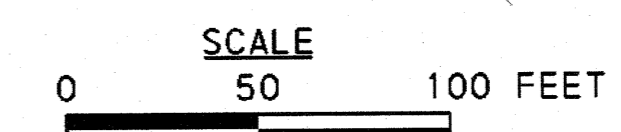
INDUSTRIAL ROAD
 PI STA 12+14.53
 Δ = 05° 09' 58" LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 11+87.46
 PT STA 12+41.56

INDUSTRIAL ROAD
 PI STA 13+10.32
 Δ = 54° 02' 45" LT
 T = 25.50'
 L = 47.16'
 R = 50.00'
 E = 6.13'
 PC STA 12+84.82
 PT STA 13+31.98



LEGEND

	- REQUIRED RIGHT-OF-WAY FOR CITY STREET (EASEMENT)
	- REQUIRED RIGHT-OF-WAY (EASEMENT)
	- REQUIRED AERIAL EASEMENT



RIGHT-OF-WAY CLAIM INFORMATION

COMMONWEALTH OF PENNSYLVANIA - DEPARTMENT OF TRANSPORTATION

STATE RTE 3022 SEC NO. 005 R/W CITY OF HARRISBURG DAUPHIN COUNTY

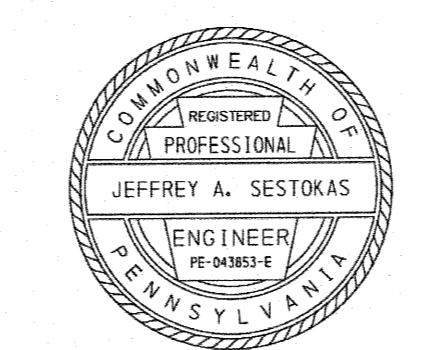
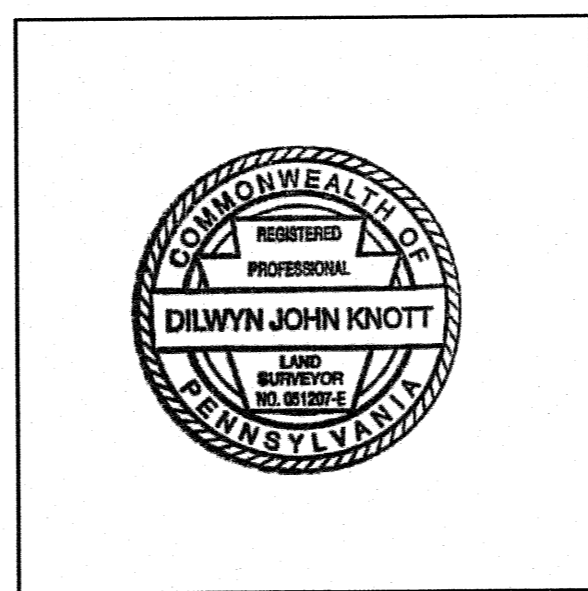
PARCEL NO. 15 SHEET NO. 9, 10, 11, 13, 14 CLAIM NO. _____

PROPERTY OWNER(S) NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC

GRANTOR(S) NO. 1 CONSOLIDATED RAIL CORPORATION

GRANTOR(S) NO. 2 HEMPT BROTHERS INC.

DEED 1		DEED 2		AREAS CALCULATED	ACRES	REQUIRED AREA	ACRES
DEED BOOK	3536	INSTRUMENT NO.	20110012165	CALCULATED	*	RIGHT-OF-WAY (EASEMENT)	0.052 **
PAGE	10	DATE OF DEED	4/15/2011	ADVERSES	*	RIGHT-OF-WAY FOR CITY STREET (EASEMENT)	0.573 ***
DATE OF DEED	5/10/1999	DATE OF RECORD	5/02/2011	LEGAL R/W	0.817 Δ	AERIAL EASEMENT	0.624
DATE OF RECORD	10/22/1999	CONSIDERATION	\$1,000,000	EFFECTIVE	*	TEMP CONSTR EASEMENT	4.226
CONSIDERATION	NONE	TAX STAMPS	N/A	TOTAL REQ'D R/W	0.625 ΔΔ	VERIFICATION DATE	10/27/2025
TAX STAMPS	N/A	TAX MAP	07	TOTAL RESIDUE	*	DRAWN BY	EA
TAX MAP	∇	PARCEL NO.	051-007	RESIDUE LT	*	SCALE:	AS SHOWN
PARCEL NO.	∇			RESIDUE RT	*		
	∇ - 07-102-043						
	- 07-052-PRR						
	- 07-051-007						
	- 14-041-099						



REVISION 3
 PREPARED BY
 ERDMAN ANTHONY

- * - TOO INNUMERABLE TO CALCULATE
- ** - REQ'D R/W (EASEMENT) INCLUDES: 0.025 ACRES LEGAL SLOPE EASEMENT
- *** - REQ'D R/W FOR CITY STREET (EASEMENT) INCLUDES: 0.405 ACRE OF LEGAL SLOPE EASEMENT
- Δ - 0.681 ACRES OF LEGAL R/W TO BE CONVERTED TO AERIAL EASEMENT
- ΔΔ - TOTAL REQ'D R/W INCLUDES: R/W (EASEMENT) AND R/W FOR CITY STREET (EASEMENT)

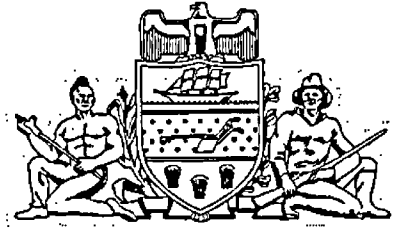
NOTE
 FENCE SHALL BE INCLUDED AS AN ITEM OF CONSTRUCTION.

DATE: 11/25/2025 TIME: 1:09 PM
 FILENAME: S:\839-01-Macloy S\Drawings\00P\00\Rev\00\3114-SR-3022005R25A-Rev3.dgn

Dauphin County

James M. Zugay, Esq.
Recorder of Deeds
jzugay@dauphincounty.gov

Candace E. Meck
First Deputy
cmeck@dauphincounty.gov



Location:
Dauphin County Court House
Room 102
101 Market Street
Harrisburg, Pennsylvania 17101-2029
(717) 780-6560

Website:
<https://www.dauphincounty.gov/government/publicly-elected-officials/recorder-of-deeds>

Recorder of Deeds
Harrisburg, Pennsylvania

CERTIFIED END PAGE

INSTRUMENT #: 20260003772
RECORD DATE: 2/18/2026 10:50:03 AM
RECORDED BY: CMECK
DOC TYPE: HWY
AGENT: CENTURY ENGINEERING
DIRECT NAME: PENNSYLVANIA COMMONWEALTH OF DEPARTMENT OF TRANSPORTATION
INDIRECT NAME: STATE ROUTE 3022 SECTION 005

RECORDING FEES - State: \$0.50

ACT 8 OF 1998: \$5.00

HARRISBURG CITY

HIGHWAYPLAN: \$14.50

UPI Count:
UPI Fee: \$0.00
UPI List:

I Certify This Document To Be Recorded
In Dauphin County, Pennsylvania.



James M. Zugay
James M. Zugay, Recorder of Deeds

THIS IS A CERTIFICATION PAGE

PLEASE DO NOT DETACH

THIS PAGE IS NOW PART OF THIS LEGAL DOCUMENT




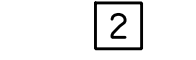



MACLAY STREET
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 L = 169.46'
 R = 3000.00'
 E = 1.20'
 PC STA 34+14.10
 PT STA 35+83.55

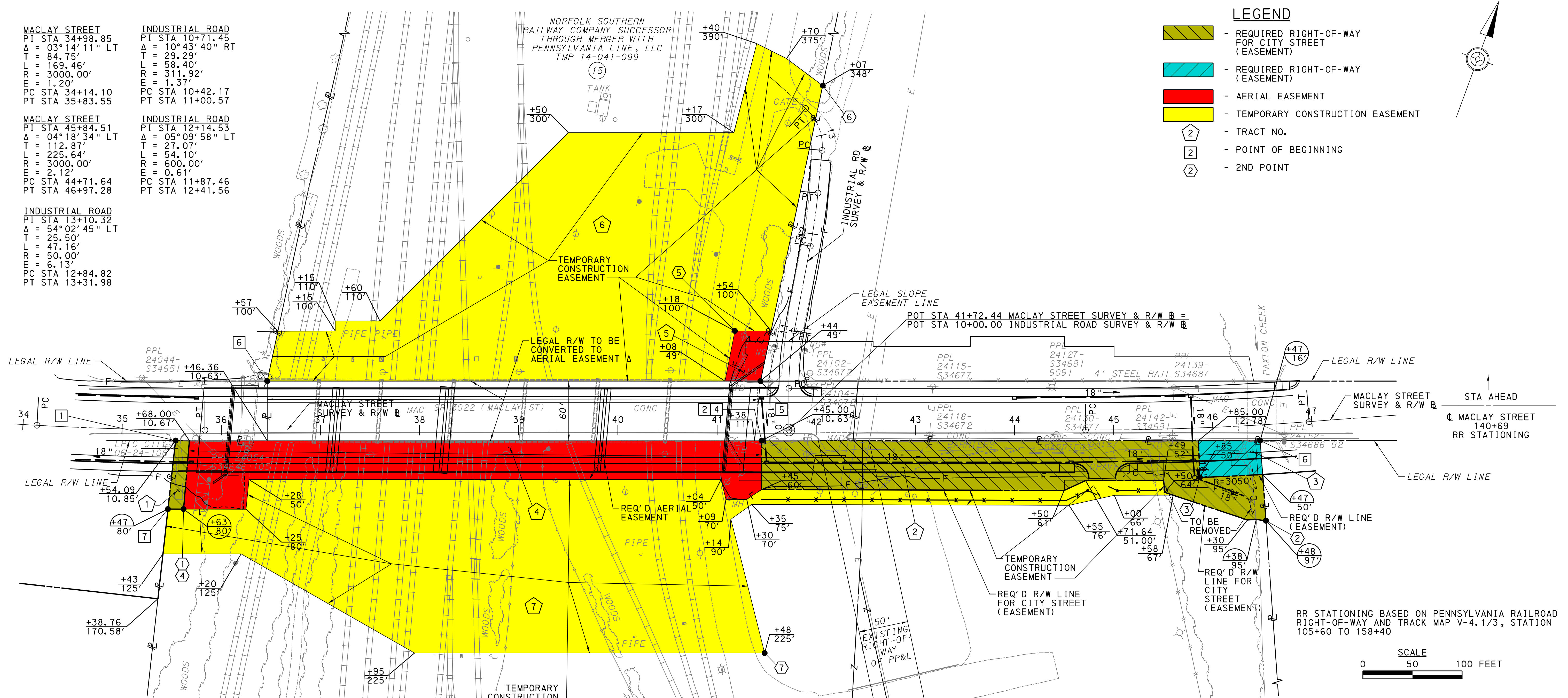
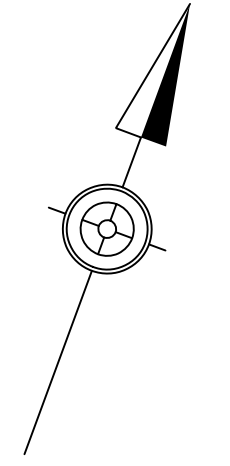
INDUSTRIAL ROAD
 PI STA 10+71.45
 $\Delta = 10^{\circ}43'40''$ RT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

MACLAY STREET
 PI STA 45+84.51
 $\Delta = 04^{\circ}18'34''$ LT
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 L = 225.64'
 R = 3000.00'
 E = 2.12'
 PC STA 44+71.64
 PT STA 46+97.28

INDUSTRIAL ROAD
 PI STA 12+14.53
 $\Delta = 05^{\circ}09'58''$ LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 11+87.46
 PT STA 12+41.56

INDUSTRIAL ROAD
 PI STA 13+10.32
 $\Delta = 54^{\circ}02'45''$ LT
 T = 25.50'
 L = 47.16'
 R = 50.00'
 E = 6.13'
 PC STA 12+84.82
 PT STA 13+31.98

- LEGEND**
-  - REQUIRED RIGHT-OF-WAY FOR CITY STREET (EASEMENT)
 -  - REQUIRED RIGHT-OF-WAY (EASEMENT)
 -  - AERIAL EASEMENT
 -  - TEMPORARY CONSTRUCTION EASEMENT
 -  - TRACT NO.
 -  - POINT OF BEGINNING
 -  - 2ND POINT



POB 2ND PNT	NORTH	EAST
POB-1	346447.69	2209075.50
2ND-1	346385.59	2209106.88
POB-2	346651.50	2209630.27
2ND-2	346750.88	2210135.55
POB-3	346824.81	2210102.24
2ND-3	346768.90	2210057.87
POB-4	346651.50	2209630.27
2ND-4	346385.59	2209106.88
POB-5	346707.37	2209608.38
2ND-5	346746.04	2209566.79
POB-6	346535.93	2209141.51
2ND-6	347008.98	2209564.51
POB-7	346380.20	2209092.09
2ND-7	346451.30	2209706.98

NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC
 TMP 07-102-043

* - TOO INNUMERABLE TO CALCULATE
 ** - REQ'D R/W (EASEMENT) INCLUDES: 0.025 ACRES LEGAL SLOPE EASEMENT
 *** - REQ'D R/W FOR CITY STREET INCLUDES: 0.405 ACRE OF LEGAL SLOPE EASEMENT
 Δ - 0.681 ACRES OF LEGAL R/W TO BE CONVERTED TO AERIAL EASEMENT
 $\Delta\Delta$ - TOTAL REQ'D R/W INCLUDES: R/W (EASEMENT) AND R/W FOR CITY STREET (EASEMENT)



RIGHT-OF-WAY CLAIM INFORMATION

COMMONWEALTH OF PENNSYLVANIA - DEPARTMENT OF TRANSPORTATION

STATE RTE 3022 SEC NO.005 R/W CITY OF HARRISBURG DAUPHIN COUNTY






PARCEL NO. 15 SHEET NO. CLAIM NO.

PROPERTY OWNER(S) NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC

GRANTOR(S) NO. 1 CONSOLIDATED RAIL CORPORATION

GRANTOR(S) NO. 2 HEMPT BROTHERS INC.

DEED 1	DEED 2	AREAS	ACRES	REQUIRED AREA	ACRES
DEED BOOK 3536	INSTRUMENT NO. 20110012165	CALCULATED	*	RIGHT-OF-WAY (EASEMENT)	**
PAGE 10	DATE OF DEED 4/15/2011	ADVERSES	*		0.052
DATE OF DEED 5/10/1999	DATE OF RECORD 5/02/2011	LEGAL R/W	0.817 Δ	RIGHT-OF-WAY FOR CITY STREET (EASEMENT)	0.573
DATE OF RECORD 10/22/1999	CONSIDERATION \$1,000,000	EFFECTIVE	*		***
CONSIDERATION NONE	TAX STAMPS N/A	TOTAL REQ'D R/W	0.625 $\Delta\Delta$	AERIAL EASEMENT	0.624
TAX STAMPS N/A	TAX MAP 07	TOTAL RESIDUE	*		
TAX MAP ∇	PARCEL NO. 051-007	RESIDUE LT	*	TEMP CONSTR EASEMENT	4.226
PARCEL NO. ∇		RESIDUE RT	*		
∇ - 07-102-043					
- 07-052-PRR					
- 07-051-007					
- 14-041-099					

REVISED	DESCRIPTION	DATE
	UPDATE DRAINAGE EASEMENT AREA	2/22/2025
	UPDATE TOTAL R/W AREA	2/26/2025
	UPDATE R/W TYPES AND AREAS	8/08/2025
	ADD NS DRAWING NO.	10/22/2025
	UPDATE REQ'D R/W AREA	10/30/2025

NS DRAWING NO. RD-2025-36

FILENAME: 57839-01-MacLay_S\Drawings\RD\PP\on\Railroad\3022005_RW\PL15-Nor-folkSouthern-Rev5.dgn

Description of Property to be Acquired from Norfolk Southern Railway
Company in the City of Harrisburg, Dauphin County, PA

Tract No. 1: Required Right of Way for City Street As Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the south side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346447.69, E: 2209075.50) on the westerly line of lands of Norfolk Southern Railway Company, located on the south side of said Maclay St bridge,

thence along said south side of Maclay Street N 69°47'13" E, a distance of 13.95 feet to a point;

thence S 15°16'41" E, a distance of 69.38 feet to a point (N: 346385.59, E: 2209106.88);

thence S 69°59'59" W, a distance of 15.74 feet to a point;

thence N 13°48'22" W, a distance of 69.50 feet to the POINT OF BEGINNING.

Containing 0.024 acres (1026 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 2: Required Right of Way for City Street As Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the south side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346651.50, E: 2209630.27) on lands of Norfolk Southern Railway Company, located on the south side of said Maclay St bridge,

thence along said south side of Maclay Street N 69°50'09" E, a distance of 440.46 feet to a point;

thence S 22°19'46" E, a distance of 37.22 feet to a point;

thence along a curve to the left, having a radius of 3,050.00 feet and an arc length of 63.44 feet, with a chord bearing N 67°04'29" E and a distance of 63.44 feet to a point;

thence S 24°15'10" E, a distance of 46.87 feet to a point (N: 346750.88, E: 2210135.55);

thence S 77°23'16" W, a distance of 9.91 feet to a point;

thence S 66°43'46" W, a distance of 8.82 feet to a point;

thence S 88°15'19" W, a distance of 87.77 feet to a point;

thence N 26°30'15" W, a distance of 12.04 feet to a point;

thence S 69°49'30" W, a distance of 78.70 feet to a point;

thence S 45°01'50" W, a distance of 23.84 feet to a point;

thence S 70°01'25" W, a distance of 305.00 feet to a point;

thence N 20°09'51" W, a distance of 49.37 feet to the POINT OF BEGINNING.

Containing 0.550 acres (23,948 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 3: Required Right of Way As Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the south side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346824.81, E: 2210102.24) on the easterly line of lands of Norfolk Southern Railway Company, located on the south side of said Maclay St bridge, near the middle of Paxton Creek,

thence along said easterly line of lands of Norfolk Southern Railway Company and through Paxton Creek S 24°15'10" E, a distance of 34.22 feet to a point;

thence along a curve to the right, having a radius of 3,050.00 feet and an arc length of 63.44 feet, with a chord bearing S 67°04'29" W and a distance of 63.44 feet to a point (N: 346768.90, E: 2210057.87);

thence N 22°19'46" W, a distance of 37.22 feet to a point;

thence N 69°50'09" E, a distance of 62.33 feet to the POINT OF BEGINNING.

Containing 0.052 acres (2,251 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 4: Required Aerial Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the south side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346651.50, E: 2209630.27) on lands of Norfolk Southern Railway Company, located on the south side of said Maclay St bridge,

thence S 20°09'51" E, a distance of 49.37 feet to a point;

thence S 36°08'44" W, a distance of 18.03 feet to a point;

thence S 69°50'09" W, a distance of 21.00 feet to a point;

thence N 34°12'02" W, a distance of 20.62 feet to a point;

thence S 69°50'09" W, a distance of 476.00 feet to a point;

thence S 14°27'13" E, a distance of 30.15 feet to a point;

thence S 69°59'59" W, a distance of 62.97 feet to a point (N: 346385.59, E: 2209106.88);

thence N 15°16'41" W, a distance of 69.45 feet to a point;

thence along said south side of Maclay Street N 69°50'09" E, a distance of 577.06 feet to the POINT OF BEGINNING.

Containing 0.582 acres (25,372 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 5: Required Aerial Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the north side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346707.37, E: 2209608.38) on lands of Norfolk Southern Railway Company, located on the north side of said Maclay St bridge and approximately 30 feet west of Industrial Drive,

thence along said north side of Maclay Street S 69°50'09" W, a distance of 35.71 feet to a point;

thence N 8°59'28" W, a distance of 51.61 feet to a point (N: 346746.04, E: 2209566.79);

thence N 69°50'09" E, a distance of 36.37 feet to a point;

thence along said easterly line of lands of Norfolk Southern Railway Company S 8°16'30" E, a distance of 51.74 feet to the POINT OF BEGINNING.

Containing 0.042 acres (1,825 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 6: Temporary Construction Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the north side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346535.93, E: 2209141.51) on the westerly line of lands of Norfolk Southern Railway Company, located on the north side of said Maclay St bridge,

thence along the westerly line of lands of Norfolk Southern Railway Company N 8°02'43" W, a distance of 51.46 feet to a point;

thence N 69°31'21" E, a distance of 57.84 feet to a point;

thence N 20°09'51" W, a distance of 10.00 feet to a point;

thence N 69°50'09" E, a distance of 45.00 feet to a point;

thence N 24°50'09" E, a distance of 268.70 feet to a point;

thence N 69°50'09" E, a distance of 167.00 feet to a point;

thence N 5°49'44" W, a distance of 92.89 feet to a point;

thence S 83°26'06" E, a distance of 33.74 feet to a point;

thence S 73°21'45" E, a distance of 45.42 feet to a point (N: 347008.98, E: 2209564.51);

thence S 8°16'30" E, a distance of 253.04 feet to a point;

thence S 69°50'09" W, a distance of 36.37 feet to a point;

thence S 8°59'28" E, a distance of 51.61 feet to a point;

thence along said north side of Maclay Street S 69°50'09" W, a distance of 461.64 feet to the POINT OF BEGINNING.

Containing 2.166 acres (94,332 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).

Tract No. 7: Temporary Construction Easement

ALL THAT CERTAIN tract of land situated along the railroad in the City of Harrisburg, Dauphin County, Commonwealth of Pennsylvania, near the south side of the Maclay St bridge, said bridge being at station 140+69 as shown on Pennsylvania Railroad Right of Way and Track Map V-4.1/3, and more particularly described as follows:

Beginning at a point (N: 346380.20, E: 2209092.09) on the westerly line of lands of Norfolk Southern Railway Company, located on the south side of said Maclay St bridge,

thence N 69°59'59" E, a distance of 15.74 feet to a point;

thence continuing N 69°59'59" E, a distance of 62.97 feet to a point;

thence N 14°27'13" W, a distance of 30.15 feet to a point;

thence N 69°50'09" E, a distance of 476.00 feet to a point;

thence S 34°12'02" E, a distance of 20.62 feet to a point;

thence N 69°50'09" E, a distance of 21.00 feet to a point;

thence N 36°08'44" E, a distance of 18.03 feet to a point;

thence N 70°01'25" E, a distance of 305.00 feet to a point;

thence N 45°01'50" E, a distance of 23.84 feet to a point;

thence N 69°49'30" E, a distance of 78.70 feet to a point;

thence S 26°30'15" E, a distance of 12.04 feet to a point;

thence N 88°15'19" E, a distance of 8.77 feet to a point;

thence S 69°42'17" W, a distance of 59.36 feet to a point;

thence S 57°18'31" W, a distance of 46.74 feet to a point;

thence S 70°00'53" W, a distance of 320.00 feet to a point;

thence S 34°17'53" W, a distance of 25.81 feet to a point;

thence S 34°18'01" E, a distance of 139.22 feet to a point;

thence S 69°50'09" W, a distance of 353.00 feet to a point;

thence N 80°25'10" W, a distance of 201.56 feet to a point;
thence S 70°02'38" W, a distance of 78.72 feet to a point;
thence N 13°48'22" W, 45.22 feet to the POINT OF BEGINNING.
Containing 2.060 acres (89,730 sq. ft.) more or less

As shown on NS Drawing Number RD-2025-36.

All coordinates are based on Pennsylvania State Plane Coordinates (south zone) defined in NAD 83 (2011).



DISTRICT	COUNTY	CITY	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
8-0	DAUPHIN	HARRISBURG	----	3022	005	54
				MACLAY ST	---	

ECMS NO. 74521

ALSO INCLUDED:

TRAFFIC CONTROL PLAN	45	- SHEETS
SIGNING AND PAVEMENT MARKING PLAN	9	- SHEETS
UTILITY RELOCATION PLAN, CRW SEWER	5	- SHEETS
UTILITY RELOCATION PLAN, CRW WATER	13	- SHEETS
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	35	- SHEETS
HIGHWAY LIGHTING PLAN	9	- SHEETS
TRAFFIC SIGNAL PLAN	5	- SHEETS
POST CONSTRUCTION STORMWATER MANAGEMENT PLAN	12	- SHEETS
STRUCTURE PLANS		
SR 3022 OVER NS RAILWAY - S-42336	97	- SHEETS
SR 3022 OVER PAXTON CREEK - S-42172	51	- SHEETS
CROSS SECTIONS	54	- SHEETS

COMMONWEALTH OF PENNSYLVANIA



DEPARTMENT OF TRANSPORTATION

DRAWINGS FOR CONSTRUCTION OF

STATE ROUTE 3022 SECTION 005

IN DAUPHIN COUNTY

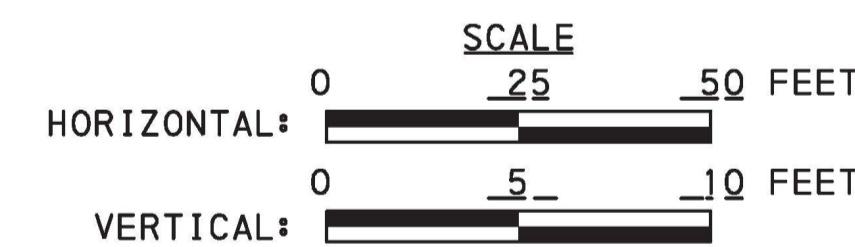
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 FROM SEGMENT 0023 OFFSET 0000 TO SEGMENT 0023 OFFSET 0501
 FROM SEGMENT 0030 OFFSET 0000 TO SEGMENT 0030 OFFSET 0068
 FROM SEGMENT 0031 OFFSET 0000 TO SEGMENT 0031 OFFSET 0068

AND

CITY OF HARRISBURG STREET MACLAY STREET

FROM STA 29+50.00 TO STA 55+80.00 LENGTH 2480.00 FT 0.470 MI

PUC APPLICATION DOCKET NUMBER A-2023-3037711



DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION - PRINCIPAL URBAN ARTERIAL
 DESIGN SPEED - 25 MPH
 PAVEMENT WIDTH - 5-11' LANES
 SHOULDER WIDTH - 6'

TRAFFIC DATA

CURRENT ADT - 25065 (2026)
 DESIGN YEAR ADT - 26559 (2046)
 DHV - 2656
 D - 60%
 T - 3%

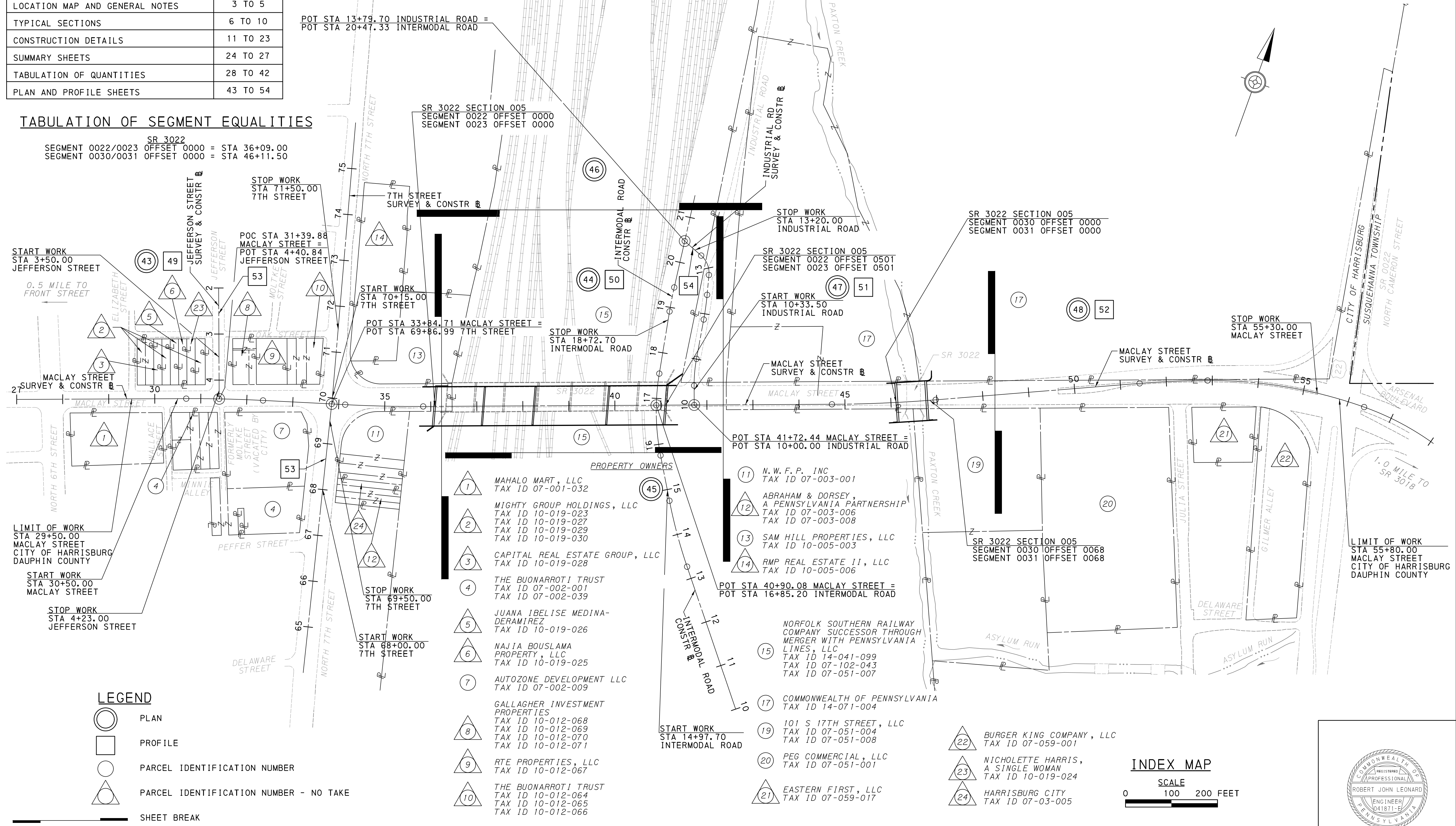
PREPARED BY: ERDMAN ANTHONY ONE STERLING PLACE 100 STERLING PARKWAY, SUITE 212 MECHANICSBURG, PA 17050 ROBERT JOHN LEONARD ENGINEER 041871-E PENNSYLVANIA REG PROF ENGINEER DATE: May 6, 2026	RECOMMENDED DATE: <u>5/7/26</u> Digitally signed by Pharon Bertsch Date: 2026.05.07 10:27:56 -04'00' DISTRICT PROJECT MANAGER
	RECOMMENDED DATE: <u>5/11/2026</u> Digitally signed by ricreising Date: 2026.05.11 10:20:43 -04'00' DISTRICT EXECUTIVE
	RECOMMENDED DATE: <u>05/11/2026</u> DEPUTY SECRETARY
	APPROVED DATE: <u>05/11/2026</u> SECRETARY OF TRANSPORTATION (ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	2 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SHEET INDEX BLOCK	
DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP AND GENERAL NOTES	3 TO 5
TYPICAL SECTIONS	6 TO 10
CONSTRUCTION DETAILS	11 TO 23
SUMMARY SHEETS	24 TO 27
TABULATION OF QUANTITIES	28 TO 42
PLAN AND PROFILE SHEETS	43 TO 54

TABULATION OF SEGMENT EQUALITIES

SR 3022
 SEGMENT 0022/0023 OFFSET 0000 = STA 36+09.00
 SEGMENT 0030/0031 OFFSET 0000 = STA 46+11.50



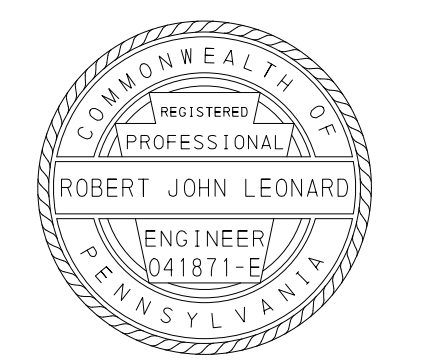
- PROPERTY OWNERS**
- 1 MAHALO MART, LLC
TAX ID 07-001-032
 - 2 MIGHTY GROUP HOLDINGS, LLC
TAX ID 10-019-023
TAX ID 10-019-027
TAX ID 10-019-029
TAX ID 10-019-030
 - 3 CAPITAL REAL ESTATE GROUP, LLC
TAX ID 10-019-028
 - 4 THE BUONARROTI TRUST
TAX ID 07-002-001
TAX ID 07-002-039
 - 5 JUANA IBELISE MEDINA-
DERAMIREZ
TAX ID 10-019-026
 - 6 NAJIA BOUSLAMA
PROPERTY, LLC
TAX ID 10-019-025
 - 7 AUTOZONE DEVELOPMENT LLC
TAX ID 07-002-009
 - 8 GALLAGHER INVESTMENT
PROPERTIES
TAX ID 10-012-068
TAX ID 10-012-069
TAX ID 10-012-070
TAX ID 10-012-071
 - 9 RTE PROPERTIES, LLC
TAX ID 10-012-067
 - 10 THE BUONARROTI TRUST
TAX ID 10-012-064
TAX ID 10-012-065
TAX ID 10-012-066
 - 11 N. W. F. P. INC
TAX ID 07-003-001
 - 12 ABRAHAM & DORSEY,
A PENNSYLVANIA PARTNERSHIP
TAX ID 07-003-006
TAX ID 07-003-008
 - 13 SAM HILL PROPERTIES, LLC
TAX ID 10-005-003
 - 14 RMP REAL ESTATE II, LLC
TAX ID 10-005-006
 - 15 NORFOLK SOUTHERN RAILWAY
COMPANY SUCCESSOR THROUGH
MERGER WITH PENNSYLVANIA
LINES, LLC
TAX ID 14-041-099
TAX ID 07-102-043
TAX ID 07-051-007
 - 17 COMMONWEALTH OF PENNSYLVANIA
TAX ID 14-071-004
 - 19 101 S 17TH STREET, LLC
TAX ID 07-051-004
TAX ID 07-051-008
 - 20 PEG COMMERCIAL, LLC
TAX ID 07-051-001
 - 21 EASTERN FIRST, LLC
TAX ID 07-059-017

LEGEND

- PLAN
- PROFILE
- PARCEL IDENTIFICATION NUMBER
- PARCEL IDENTIFICATION NUMBER - NO TAKE
- SHEET BREAK

INDEX MAP

SCALE
 0 100 200 FEET



DATE: 5/6/2026 TIME: 03:18 PM FILENAME: S:\Drawings\Cons\1\Plan\Cover\Index\3022005\CNRIT0002.dgn

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	3 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

TABULATION OF OVERALL LENGTH

MACLAY STREET: STA 29+50.00 TO STA 55+80.00 = 2630.00 FT = 0.498 MI

TABULATION OF CONSTRUCTION LENGTH

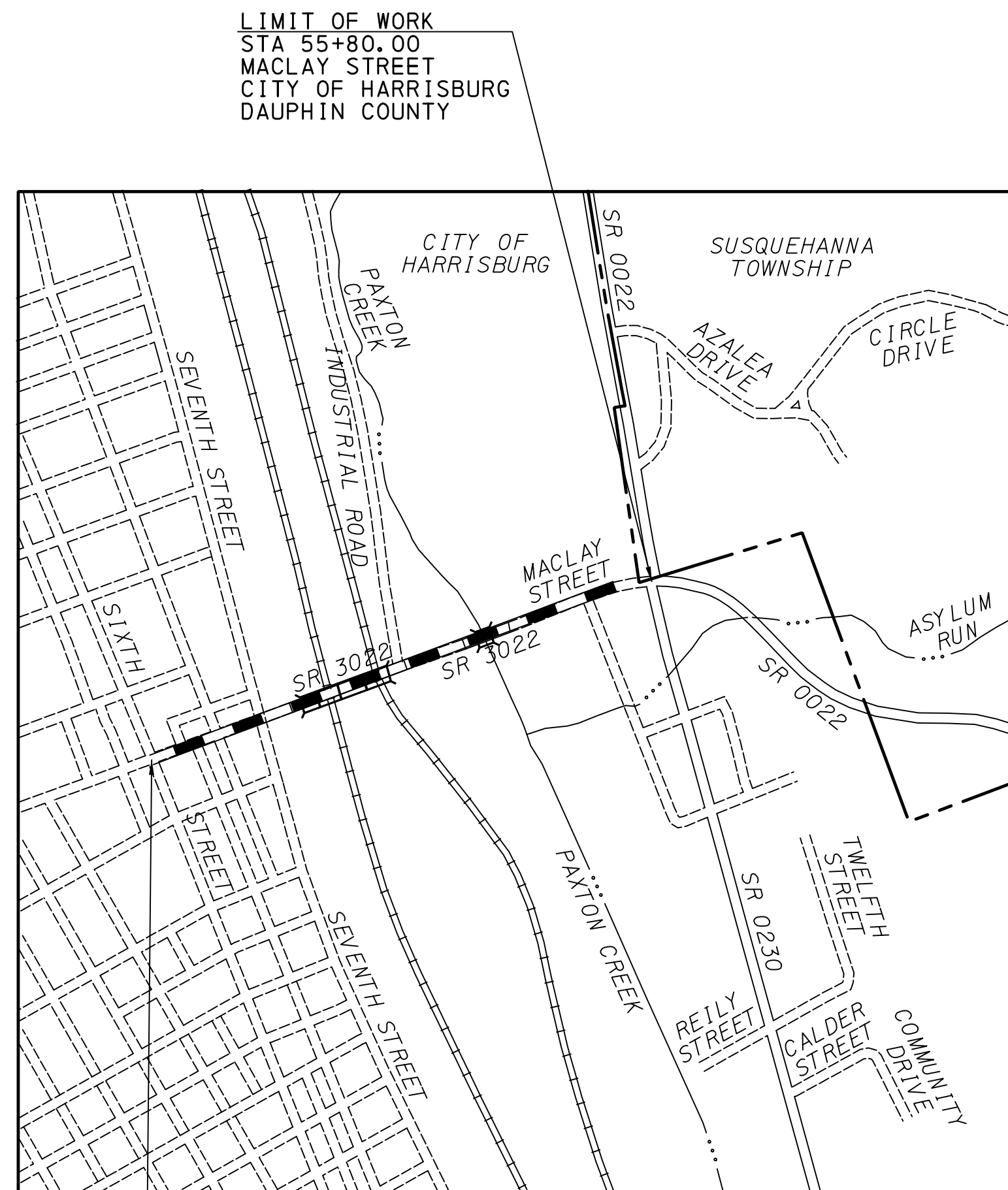
MACLAY STREET: STA 30+50.00 TO STA 55+30.00 = 2480.00 FT = 0.470 MI

SUMMARY OF PROJECT COORDINATES

BASED ON STATE PLANE COORDINATE SYSTEM NAD 83 (2011 PA SOUTH ZONE)
AVERAGE COMBINED FACTOR = 0.99995238

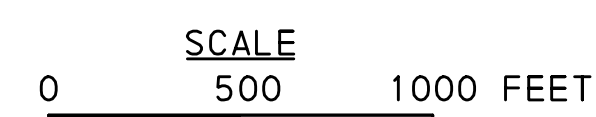
ROUTE	STATION	POINT	COORDINATES		BEARING	ROUTE	STATION	POINT	COORDINATES		BEARING
			NORTHING	EASTING					NORTHING	EASTING	
MACLAY STREET SURVEY & CONSTR	27+00.00	POT	346182.2750	2208263.7227	N 69°53' 03" E	INTERMODAL ROAD CONSTR	10+00.00	POT	346080.3226	2209961.4520	N 38°42' 03" W
	30+68.31	PC	346308.9438	2208609.5635			13+26.85	PC	346335.4015	2209757.0890	
	31+51.79	PI	346337.6560	2208687.9557			14+01.14	PI	346393.3773	2209710.6401	
	32+35.23	PT	346361.9641	2208767.8233	N 73°04' 20" E		14+75.20	PT	346457.0720	2209672.4083	N 30°58' 25" W
	34+14.10	PC	346414.0429	2208938.9352			15+75.56	PC	346543.1222	2209620.7578	
	34+98.85	PI	346438.7198	2209020.0148	N 69°50' 09" E		16+65.87	PI	346620.5527	2209574.2811	N 69°50' 09" E
	35+83.55	PT	346467.9349	2209099.5720			17+54.25	PT	346709.3494	2209557.8278	
	44+71.64	PC	346774.0686	2209933.2217	N 65°31' 34" E		18+91.14	PC	346843.9529	2209532.8869	N 65°31' 34" E
	45+84.51	PI	346812.9780	2210039.1782			19+17.68	PI	346870.0419	2209528.0529	
	46+97.28	PT	346859.7393	2210141.9113	N 69°50' 19" E		19+44.20	PT	346896.3704	2209524.7641	N 69°50' 09" E
	51+41.74	PC	347043.8700	2210546.4400		21+48.95	POT	347099.5453	2209499.3851		
	52+15.76	PI	347074.4468	2210613.8451							
	52+89.71	PCC	347099.9577	2210683.3259							
	54+64.84	PI	347160.3184	2210847.7226							
	56+36.45	PCC	347161.2194	2211022.8479							
	58+19.89	PI	347162.1632	2211206.2838							
	59+92.49	PT	347060.3696	2211358.8868							
	60+39.02	POT	347034.5531	2211397.5894							
	JEFFERSON ST SURVEY & CONSTR	2+00.00	POT	346558.9050	2208594.2356	S 20°06' 50" E					
		3+00.00	PI	346465.0039	2208628.6244						
4+40.84		POT	346332.7551	2208677.0572							
7TH ST SURVEY & CONSTR	64+00.00	POT	345835.4550	2209050.8965	N 13°48' 22" W						
	70+00.00	PI	346418.1205	2208907.7149		N 15°01' 23" W					
	76+00.00	POT	346997.6133	2208752.1895							
INDUSTRIAL RD SURVEY & CONSTR	10+00.00	POT	346670.9322	2209652.3654	N 20°09' 51" W						
	10+42.17	PC	346710.5144	2209637.8300		N 09°26' 12" W					
	10+71.45	PI	346738.0060	2209627.7345							
	11+00.57	PT	346766.8962	2209622.9328	N 14°36' 10" W						
	11+87.46	PC	346852.6091	2209608.6868							
	12+14.53	PI	346879.3110	2209604.2488							
	12+41.56	PT	346905.5047	2209597.4245							
	12+84.82	PC	346947.3662	2209586.5183							
	13+10.32	PI	346972.0439	2209580.0889		N 68°38' 55" W					
	13+31.98	PT	346981.3287	2209556.3377							
13+79.70	POT	346998.7032	2209511.8922								

FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) PLACES.



LOCATION MAP

LIMIT OF WORK
STA 29+50.00
MACLAY STREET
CITY OF HARRISBURG
DAUPHIN COUNTY



LEGEND

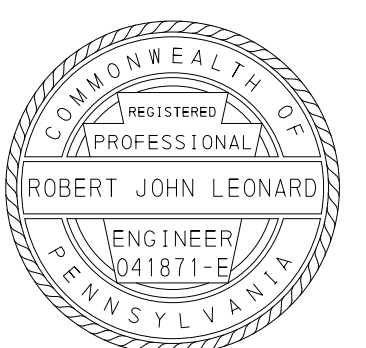
- PROJECT
- STATE HIGHWAY
- CITY/TWP ROAD
- CITY/TWP BOUNDARY

EARTHWORK SUMMARY ENTIRE PROJECT

THE INFORMATION ON ESTIMATED AMOUNTS OF EARTHWORK HAS BEEN USED IN THE PRELIMINARY ESTIMATE. DO NOT USE AS A WAIVER OF ANY PROVISIONS OF THE SPECIFICATIONS AND CONTRACTS.

CUBIC YARDS OF EXCAVATION					CUBIC YARDS OF COMPLETED EMBANKMENT	CUBIC YARDS OF FOREIGN BORROW EXCAVATION	CUBIC YARDS OF SELECTED BORROW EXCAVATION ROCK ***	CUBIC YARDS OF REGULATED FILL ****	CUBIC YARDS OF RESIDUAL WASTE *****	CUBIC YARDS OF WASTE
CLASS 1	CLASS 1C	CLASS 2	CLASS 3*	PIPES**						
7671	100	1660	7482	2030	5702	1000	1438	2034	1988	10219

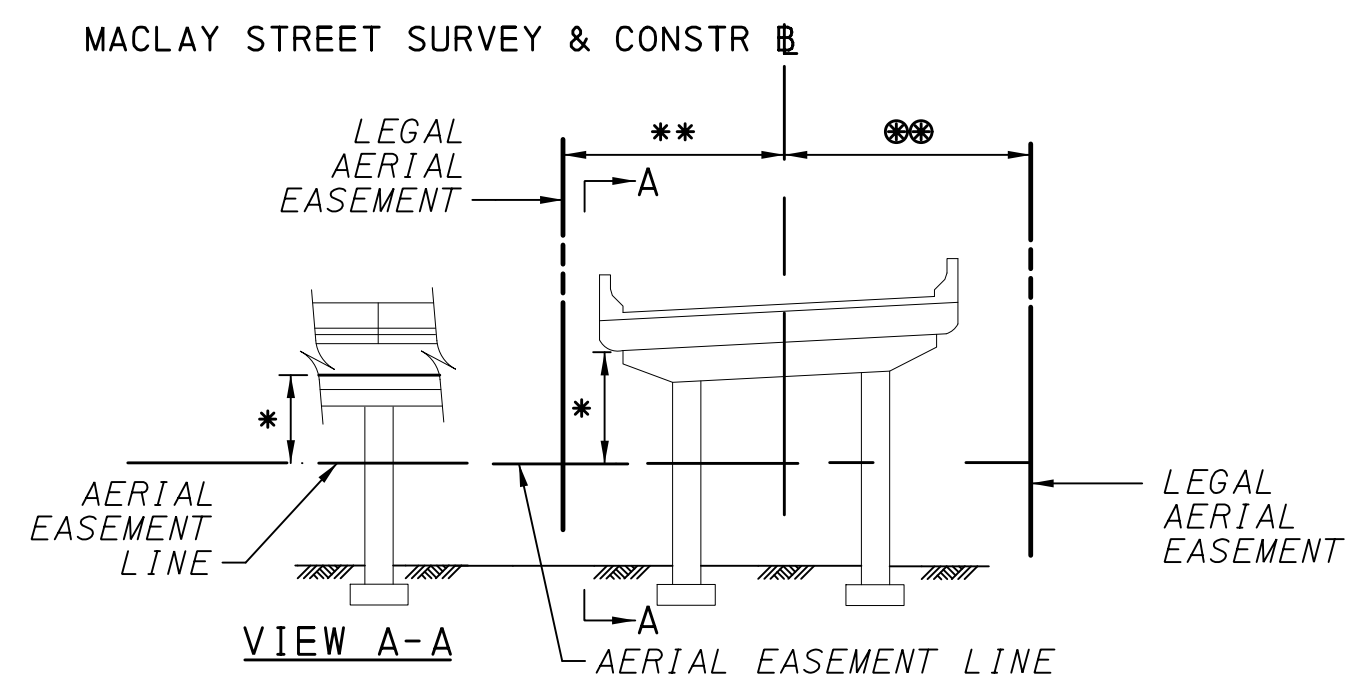
*EXCAVATION INCLUDED IN STRUCTURE LUMP SUM ITEMS
**EXCAVATION INCLUDED IN PIPE ITEMS
***BORROW EXCAVATION ROCK INCLUDED IN STRUCTURE LUMP SUM ITEMS
****DISPOSAL INCLUDED IN ITEM 9000-0606
*****DISPOSAL INCLUDED IN ITEM 9000-0607



FOR LIST OF PUBLIC UTILITIES, SEE SHEET 5

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	4 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

GENERAL NOTES (CONT'D)



SKETCH SHOWING ESTATE ACQUIRED FOR A LIMITED AERIAL EASEMENT FROM STA 36+09.00 TO STA 41+10.00.

- * ACTUAL DIMENSION = 1 FT MINIMUM.
- ** ACTUAL DIMENSION = VARIES FROM 49 FT TO 100 FT..
- ⊗ ACTUAL DIMENSION = VARIES FROM 80 FT TO 45 FT.

USE OF AIRSPACE BENEATH THE ESTABLISHED GRADE LINE OF THE HIGHWAY SHALL PROVIDE SUFFICIENT VERTICAL AND HORIZONTAL CLEARANCES FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, VENTILATION AND SAFETY OF THE HIGHWAY FACILITY. THE ESTATE ACQUIRED ABOVE THE AERIAL EASEMENT LINE MAY BE ENTERED ON BY MOVING VEHICLES SUCH AS TRUCKS OR RAILROAD ROLLING STOCK.

- 1) WHERE AN AERIAL EASEMENT IS ACQUIRED, IT SHALL INCLUDE AN EASEMENT IN THE AIR FOR THE ACCOMMODATION OF THE ELEVATED HIGHWAY STRUCTURE UNLIMITED IN VERTICAL DIMENSION ABOVE THE STRUCTURE, A SURFACE EASEMENT UNLIMITED IN VERTICAL DIMENSION FOR THE ACCOMMODATION OF PIERS AND OTHER APPURTENANCES AND A TEMPORARY EASEMENT FOR CONSTRUCTION PURPOSES INCLUDING THE STORAGE OF MATERIALS DURING CONSTRUCTION FOR THE ENTIRE AREA. THE FOLLOWING LIMITATIONS SHALL BE IMPOSED ON THE PROPERTY BENEATH THE AREA AFFECTED BY THE AERIAL EASEMENT.
- 2) NO USE SHALL BE MADE OF THE PROPERTY WHICH SHALL ENDANGER THE STRUCTURE OR THE HEALTH, SAFETY OR WELFARE OF THE TRAVELING PUBLIC.
- 3) NO FLAMMABLE, EXPLOSIVE, DANGEROUS OR HAZARDOUS MATERIAL SHALL BE USED, PLACED OR STORED ON THE PROPERTY.
- 4) NO BUILDING OR OTHER FACILITY SHALL BE CONSTRUCTED ON THE PROPERTY WITHOUT PRIOR AUTHORITY OF THE DEPARTMENT OF TRANSPORTATION. IF AND WHEN IF AND WHEN SUCH AUTHORITY IS GRANTED, THE PLANS FOR THE BUILDING OR FACILITY AND CONSTRUCTION METHODS SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION.
- 5) NO INTERFERENCE SHALL BE MADE WITH THE RIGHT OF THE DEPARTMENT OF TRANSPORTATION TO ENTER UPON THE PROPERTY FOR THE PURPOSES OF INSPECTION, MAINTENANCE, REPAIR, PAINTING, RECONSTRUCTION OR ALTERATION OF THE STRUCTURE OR APPURTENANCES. MOVEABLE ITEMS MAY HAVE TO BE REMOVED BY THE OWNER DURING SOME OR ALL OF THE ABOVE OPERATIONS.
- 6) ANY SUBSTANTIAL CHANGE IN PROPERTY USE TO BE MADE SUBSEQUENT TO THE ACQUISITION OF THE EASEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF TRANSPORTATION.
- 7) THE NOTES ON THESE DRAWINGS SHALL NOT BE CONSTRUED AS LIMITING OR INTERFERING IN ANY WAY WITH THE PRESENT AND FUTURE OPERATION, USE, MAINTENANCE, REPAIR, RENEWAL, CHANGE, ADDITION, BETTERMENT OR ALTERATION OF THE RAILROAD AND ITS SUPPORTING FACILITIES.

GENERAL NOTES (CONT'D)

CONSTRUCT PROJECT IN ACCORDANCE WITH PUBLICATION 408 SPECIFICATIONS DATED 2020.

DETAILS OTHER THAN THOSE INDICATED, ARE ON THE FOLLOWING STANDARD DRAWINGS:

STANDARD DRAWING	DATE APPROVED	STANDARD DRAWING	DATE APPROVED
RC-10M	02-10-2026	TC-8716	02-21-2024
RC-11M	02-10-2026	TC-8717	06-13-2013
RC-12M	02-10-2026	TC-8801	01-27-2025
RC-13M	02-10-2026	TC-8802	06-20-2023
RC-15M	02-10-2026	TC-8803	01-27-2025
RC-20M	02-10-2026	TC-8804	01-27-2025
RC-23M	02-10-2026	TC-8805	01-27-2025
RC-25M	02-10-2026	TC-8806	01-27-2025
RC-28M	02-10-2026	TC-8807	01-27-2025
RC-30M	02-10-2026	BC-701M	11-23-2022
RC-31M	02-10-2026	BC-719M	03-27-2024
RC-32M	02-10-2026	BC-721M	02-19-2021
RC-39M	02-10-2026	BC-722M	02-19-2021
RC-45M	02-10-2026	BC-732M	11-23-2022
RC-46M	02-10-2026	BC-734M	02-19-2021
RC-50M	02-10-2026	BC-735M	09-30-2016
RC-51M	02-10-2026	BC-736M	11-23-2022
RC-54M	02-10-2026	BC-751M	01-31-2019
RC-57M	02-10-2026	BC-752M	11-23-2022
RC-64M	02-10-2026	BC-753M	01-31-2019
RC-65M	02-10-2026	BC-754M	11-23-2022
RC-67M	02-10-2026	BC-755M	01-31-2019
RC-70M	02-10-2026	BC-757M	09-30-2016
RC-72M	02-10-2026	BC-767M	11-23-2022
RC-73M	02-10-2026	BC-772M	11-23-2022
RC-75M	02-10-2026	BC-775M	11-23-2022
RC-77M	02-10-2026	BC-783M	01-31-2019
TC-8600	06-13-2013	BC-788M	11-23-2022
TC-8604	08-17-2021	ET-1446-D	05-07-1999
TC-8700C	06-13-2013	ET-1447-D	01-13-2000

THE CONTRACTOR IS REQUIRED TO NOTIFY THE DEPARTMENT AND SUBMIT AN ALLEGED VIOLATION REPORT (AVR) TO THE PA PUBLIC UTILITY COMMISSION THROUGH THE PA ONE CALL SYSTEM, WWW.PA1CALL.ORG, WITHIN TEN (10) BUSINESS DAYS AFTER A UTILITY LINE IS STRUCK, DAMAGED, OR PREVIOUS DAMAGE IS DISCOVERED AS REQUIRED BY PENNSYLVANIA'S UNDERGROUND UTILITY LINE PROTECTION LAW ACT 50 (P.L. 852, NO. 287 AMENDED OCT 30, 2017).

THIS IS A FEDERAL-AID PROJECT AND AS SUCH IS SUBJECT TO INSPECTION BY REPRESENTATIVES OF THE FEDERAL HIGHWAY ADMINISTRATION AND THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION.

TEMPORARY CONSTRUCTION EASEMENT. AN EASEMENT TO USE THE LAND AS NECESSARY DURING CONSTRUCTION OF THE PROJECT. THE EASEMENT IS REQUIRED ONLY UNTIL THE CONSTRUCTION OR WORK INDICATED BY THE PLAN IS COMPLETED, UNLESS SOONER RELINQUISHED IN WRITING BY THE DEPARTMENT.

SLOPE EASEMENT. AN EASEMENT FOR THE SUPPORT AND PROTECTION OF THE HIGHWAY, INCLUDING THE RIGHT TO CONSTRUCT, INSPECT, MAINTAIN, REPAIR, RECONSTRUCT AND ALTER DRAINAGE FACILITIES AND THE CONTOUR OF THE LAND. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY SUPPORT AND PROTECTION OF THE HIGHWAY RIGHT-OF-WAY AND THE SAFETY OF THE TRAVELING PUBLIC.

SLOPE EASEMENT FOR CITY STREET. AN EASEMENT FOR THE SUPPORT AND PROTECTION OF THE HIGHWAY ACQUIRED FOR THE BENEFIT OF THE APPLICABLE MUNICIPALITY, INCLUDING THE RIGHT TO CONSTRUCT, INSPECT, MAINTAIN, REPAIR, RECONSTRUCT AND ALTER DRAINAGE FACILITIES AND THE CONTOUR OF THE LAND. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY SUPPORT AND PROTECTION OF THE HIGHWAY RIGHT-OF-WAY AND THE SAFETY OF THE TRAVELING PUBLIC. TITLE SHALL VEST IN THE APPLICABLE LOCAL MUNICIPALITY UPON ACQUISITION AND MAINTENANCE RESPONSIBILITY SHALL TRANSFER UPON THE COMPLETION OF CONSTRUCTION.

DRAINAGE EASEMENT FOR CITY STREET. AND EASEMENT ACQUIRED FOR THE BENEFIT OF THE APPLICABLE MUNICIPALITY FOR THE CONSTRUCTION, INSPECTION, MAINTENANCE, REPAIR, RECONSTRUCTION AND ALTERATION OF HIGHWAY DRAINAGE FACILITIES. THE EASEMENT SHALL NOT PREVENT THE PROPERTY OWNER FROM MAKING ANY LEGAL USE OF THE AREA WHICH IS NOT DETRIMENTAL TO THE NECESSARY FLOW OF WATER. HOWEVER, NO STRUCTURE OF ANY KIND MAY BE ERRECTED IN THE AREA. NOR MAY ANY PIPE OR DITCH BE CONNECTED TO THE MUNICIPALITY'S PIPE OR DITCH WITHOUT ADVANCED WRITTEN APPROVAL BY THE MUNICIPALITY. TITLE SHALL VEST IN THE APPLICABLE LOCAL MUNICIPALITY UPON ACQUISITION AND MAINTENANCE RESPONSIBILITY SHALL TRANSFER UPON THE COMPLETION OF CONSTRUCTION.

GENERAL NOTES

THE LEGAL RIGHT OF WAY OF MACLAY STREET, FORMERLY LR 1 SPUR FROM STA 29+50.00 TO STA 31+37.00 IS 60 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF MACLAY STREET, FORMERLY LR 1 SPUR FROM STA 31+37.00 TO STA 53+00.00 IS VARIABLE IN WIDTH BASED ON PLAN FOR SR 3022 SECTION NO. 005 R/W APPROVED BY THE GOVERNOR ON OCTOBER 23, 2024 AND RECORDED IN THE DAUPHIN COUNTY RECORDER OF DEEDS OFFICE ON NOVEMBER 06, 2024 IN INSTRUMENT NO. 20240024508. REVISED ON JANUARY 30, 2025 AND RECORDED ON FEBRUARY 20, 2025 IN INSTRUMENT NO. 20250003807. RE-REVISED ON FEBRUARY 27, 2025 AND RECORDED ON MARCH 06, 2025 IN INSTRUMENT NO. 20250004909. RE-REVISED ON FEBRUARY 12, 2026 AND RECORDED ON FEBRUARY 18, 2026 IN INSTRUMENT NO. 20260003772.

THE LEGAL RIGHT OF WAY OF MACLAY STREET, FORMERLY LR 1 SPUR F FROM STA 53+00.00 TO STA 55+80.00 IS 60 FEET AND VARIABLE, BASED ON DRAWINGS AUTHORIZING CONDEMNATION OF RIGHT OF WAY FOR LR 1 SPUR F SECTION 7T R/W AND LR 22023 SECTION 5T R/W SIGNED BY THE GOVERNOR ON MARCH 19, 1974, AND RECORDED IN THE OFFICE OF THE RECORDER OF DEEDS OF DAUPHIN COUNTY IN PLAN BOOK 7 PAGE 49.

THE LEGAL RIGHT OF WAY OF SEVENTH STREET IS 65 FEET AND VARIABLE, BASED ON DRAWINGS AUTHORIZING ACQUISITION OF RIGHT-OF-WAY FOR SEVENTH STREET SECTION RDW R/W, APPROVED MARCH 15, 2006 AND RECORDED AS INSTRUMENT NO. 20080007885 ON MARCH 6, 2008 IN OFFICE OF RECORDER OF DEEDS.

THE LEGAL RIGHT OF WAY OF JEFFERSON STREET, FORMERLY 6TH STREET IS 60 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF JULIA STREET IS 50 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF OAK STREET IS 20 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF WALLACE STREET IS 20 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF MOLTKE STREET (NOW VACATED) WAS 16 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

THE LEGAL RIGHT OF WAY OF GILMER ALLEY IS 10 FEET, AS ORDAINED BY THE CITY OF HARRISBURG.

INDUSTRIAL ROAD IS A CITY STREET OF UNSPECIFIED WIDTH PASSING THROUGH LANDS OWNED BY THE CITY OF HARRISBURG.

DEMOLISH AND REMOVE BUILDINGS AND STRUCTURES MARKED AS LUMP SUM ITEMS AT THE LOCATIONS INDICATED.

SR 3022 PREVIOUSLY KNOWN AS LR 1.

THE HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE), NORTH AMERICAN DATUM (NAD) 1983 (2011), BASED ON CONTROL PROVIDED BY PENNDOT DISTRICT 8-0.

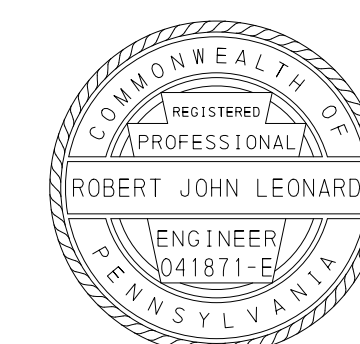
AVERAGE COMBINED GRID FACTOR = 0.99995238.

VERTICAL DATUM IS BASED ON NAVD 1988.

ALL CURVE DATA IS BASED ON THE ARC DEFINITION UNLESS OTHERWISE NOTED.

THREE TO TEN WORKING DAYS PRIOR TO EXCAVATION BASED ON THE COMPLEXITY OF THE PROJECT, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. ----- FOR CITY OF HARRISBURG. ADDITIONAL INFORMATION IS AVAILABLE AT HTTPS://WWW.PA1CALL.ORG/PA811/PUBLIC/.

DO NOT INTERFERE WITH THE OPERATION OF ANY FIRE HYDRANT, FIRE CALL BOX OR POLICE CALL BOX.



LIST OF EXISTING PUBLIC UTILITIES

PPL ELECTRIC UTILITIES
2 NORTH 9TH STREET
ALLENTOWN, PA 18101-1179
CONTACT: RYAN HAAS
PHONE: (610) 774-6270
EMAIL: RRHAAS@PPLWEB.COM

FRONTIER COMMUNICATIONS OF PA INC
100 CTE DRIVE
DALLAS, PA 18612
CONTACT: ROBERT JANUSZKO
PHONE: (570) 788-1200
EMAIL: ROBERT.JANUSZKO@FTR.COM

VERIZON PENNSYLVANIA LLC (PIKE TELECOM)
900 RACE STREET, 6TH FLOOR
PHILADELPHIA, PA 19107
CONTACT: PHILLIP POLISKI
PHONE: (717) 991-1589
EMAIL: PPOLISKI@PIKE.COM

COMCAST
4601 SMITH STREET
HARRISBURG, PA 17109
CONTACT: MICHAEL SWEIGARD
PHONE: (717) 298-6947
EMAIL: MIKE.SWEIGARD@CABLE.COMCAST.COM

FIRSTLIGHT FIBER, INC
41 STATE STREET
ALBANY, NY 12207
CONTACT: KELLY ROBERTS
PHONE: (570) 872-3119
EMAIL: KROBERTS@FIRSTLIGHT.NET

DQE COMMUNICATIONS LLC
424 SOUTH 27TH STREET, SUITE 220
PITTSBURGH, PA 15203
CONTACT: CHRISTOPHER SMITH
PHONE: (814) 251-2032
EMAIL: CSSMITH@DQE.COM

CROWN CASTLE (SUNESYS)
9011 ARBORETUM PARKWAY
RICHMOND, VA 23236
CONTACT: JEFFREY BRACKEN
PHONE: (484) 903-4024
EMAIL: JEFFREY.BRACKEN@CROWNCastle.COM

BRIGHTSPEED
1765 W TRINDLE RD, P.O. BOX 1201
CARLISLE, PA 17013-0905
CONTACT: JOSEPH CENTOBENE
PHONE: (980) 376-1618
EMAIL: JOE.D.CENTOBENE@BRIGHTSPEED.COM

LUMEN (TELECOM)
100 CENTURY LINK DRIVE
MONROE, LA 71203
CONTACT: PAUL ERICKSON
PHONE: (717)-506-7405
EMAIL: PAUL.ERICKSON@LUMEN.COM

AT&T CORPORATION
ONE ATT WAY
BEDMINSTER, NJ 07921
CONTACT: MIKE HUDDLESTON
PHONE: (724) 495-4161
EMAIL: MHUDDLESTON@MBAKERINTL.COM

CAPITAL REGION WATER
3003 NORTH FRONT STREET
HARRISBURG, PA 17110
CONTACT: JEFF BOWRA
PHONE: (717) 525-7677
EMAIL: JEFF.BOWRA@CAPITALREGIONWATER.COM

UGI UTILITIES INC.
1 PEI CENTER
WILKES BARRE, PA 18711-0601
CONTACT: GEOFF FERGUSON
PHONE: (610) 807-3118
EMAIL: GFERGUSON@UGI.COM

KINBER
5775 ALLENTOWN BOULEVARD, SUITE 101
HARRISBURG, PA 17112
CONTACT: MICHAEL D. CAREY
PHONE: (717) 963-7490
EMAIL: MCAREY@KINBER.ORG

SHENANDOAH TELECOMMUNICATIONS COMPANY (SHENTEL)
500 SHENTEL WAY
EDINBURG, VA 22824-0459
CONTACT: KENNETH RUPERT, SR
PHONE: (717) 781-9884
EMAIL: KEN.RUPERT@EMP.SHENTEL.COM

THE PA ONE CALL NOTIFICATIONS PERFORMED DURING PROJECT DEVELOPMENT ARE AS FOLLOWS:
PRELIMINARY DESIGN SERIAL NOS. 20242190460, 20242190480 FOR CITY OF HARRISBURG
FINAL DESIGN SERIAL NOS. -----, ----- FOR CITY OF HARRISBURG

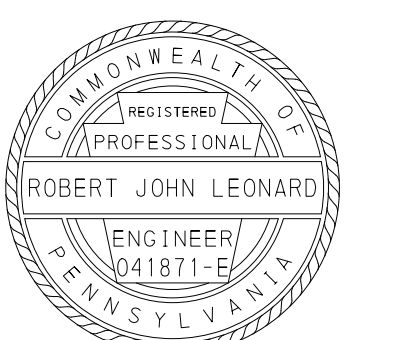
LEGEND - EXISTING UTILITIES

- E ——— - PPL - AERIAL
- EU ——— - PPL - UNDERGROUND
- NS ——— - NORFOLK SOUTHERN
- T2 ——— - FRONTIER COMMUNICATIONS - AERIAL
- T1 ——— - VERIZON - AERIAL
- CTV ——— - COMCAST CABLE - AERIAL
- F01 ——— - FIRSTLIGHT FIBER
- F02 ——— - DQE, FIRSTLIGHT FIBER, SHENTEL COMMUNICATIONS
- F03 ——— - CROWN CASTLE, DQE, FIRSTLIGHT FIBER, LUMEN
- F04 ——— - BRIGHTSPEED, CROWN CASTLE, DQE, FIRSTLIGHT FIBER, KINBER, LUMEN
- F05 ——— - BRIGHTSPEED, CROWN CASTLE, DQE, FIRSTLIGHT FIBER, LUMEN
- F06 ——— - CROWN CASTLE, DQE, FIRSTLIGHT FIBER
- F07 ——— - CROWN CASTLE, DQE, FIRSTLIGHT FIBER, SHENTEL COMMUNICATIONS
- F08 ——— - LUMEN, SHENTEL COMMUNICATIONS
- F09 ——— - BRIGHTSPEED, CROWN CASTLE, DQE, FIRSTLIGHT FIBER, SHENTEL COMMUNICATIONS
- F010 ——— - BRIGHTSPEED
- F011 ——— - AT&T
- F0U1 ——— - AT&T - UNDERGROUND
- F0U2 ——— - KINBER - UNDERGROUND
- F0U3 ——— - LUMEN - UNDERGROUND
- UNK ——— - UNKNOWN
- COND ——— - LIGHTING CONDUIT
- W ——— - CAPITAL REGION WATER - WATER
- S ——— - CAPITAL REGION WATER - SEWER
- G ——— - UGI

LEGEND - PROPOSED UTILITIES

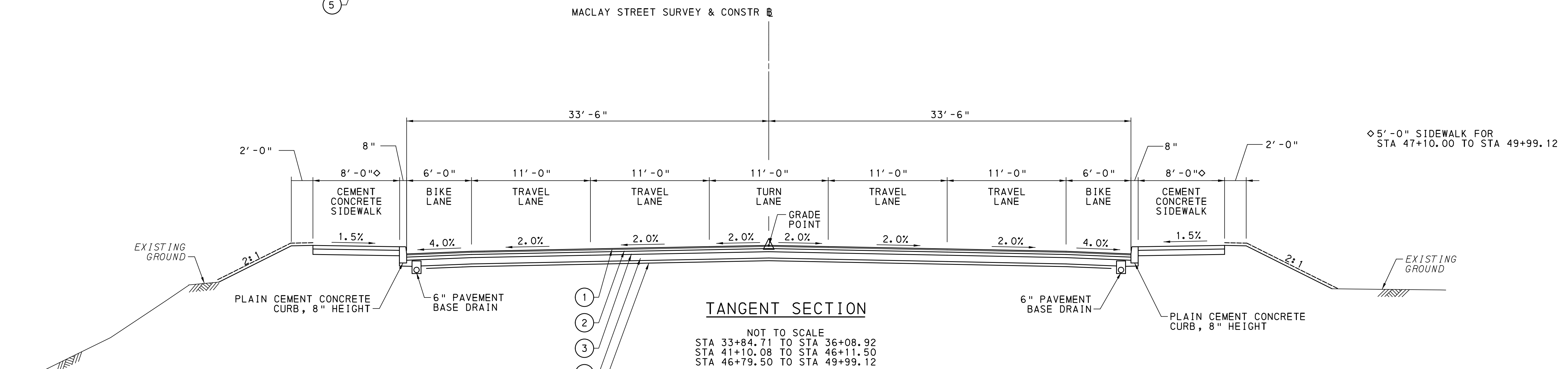
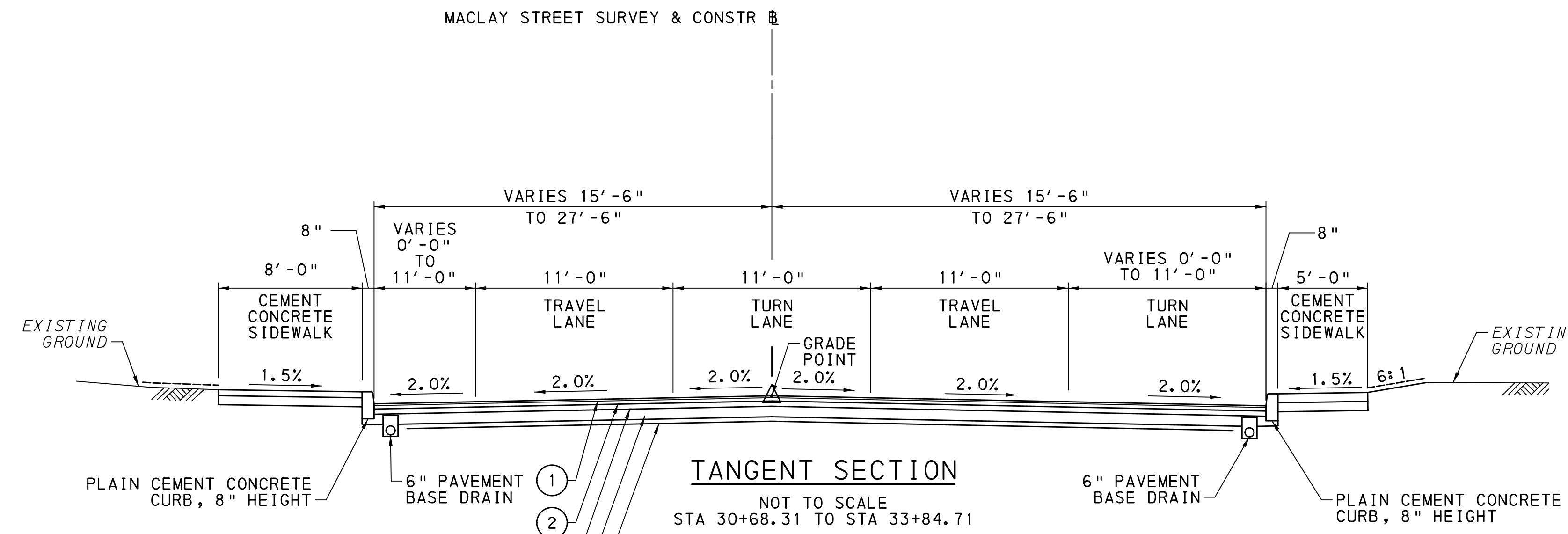
- E ——— - PPL ELECTRIC
- T1 ——— - VERIZON - AERIAL
- T2 ——— - FRONTIER COMMUNICATIONS - AERIAL
- CTV ——— - COMCAST CABLE - AERIAL
- F021 ——— - FIRSTLIGHT FIBER
- F022 ——— - CROWN CASTLE, DQE, SHENTEL
- F023 ——— - CROWN CASTLE, DQE, FIRSTLIGHT FIBER, SHENTEL
- F024 ——— - BRIGHTSPEED, CROWN CASTLE, DQE, FIRSTLIGHT FIBER, SHENTEL
- F025 ——— - DQE, FIRSTLIGHT FIBER, SHENTEL
- F026 ——— - BRIGHTSPEED, CROWN CASTLE
- E ——— - LIGHTING CONDUIT
- W ——— - CAPITAL REGION WATER - WATER
- S ——— - CAPITAL REGION WATER - SEWER
- G ——— - UGI

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	5 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



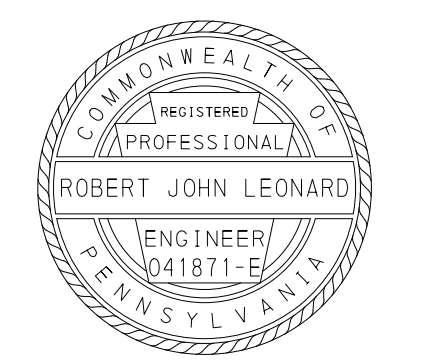
TYPICAL SECTIONS - MACLAY STREET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	6 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



LEGEND

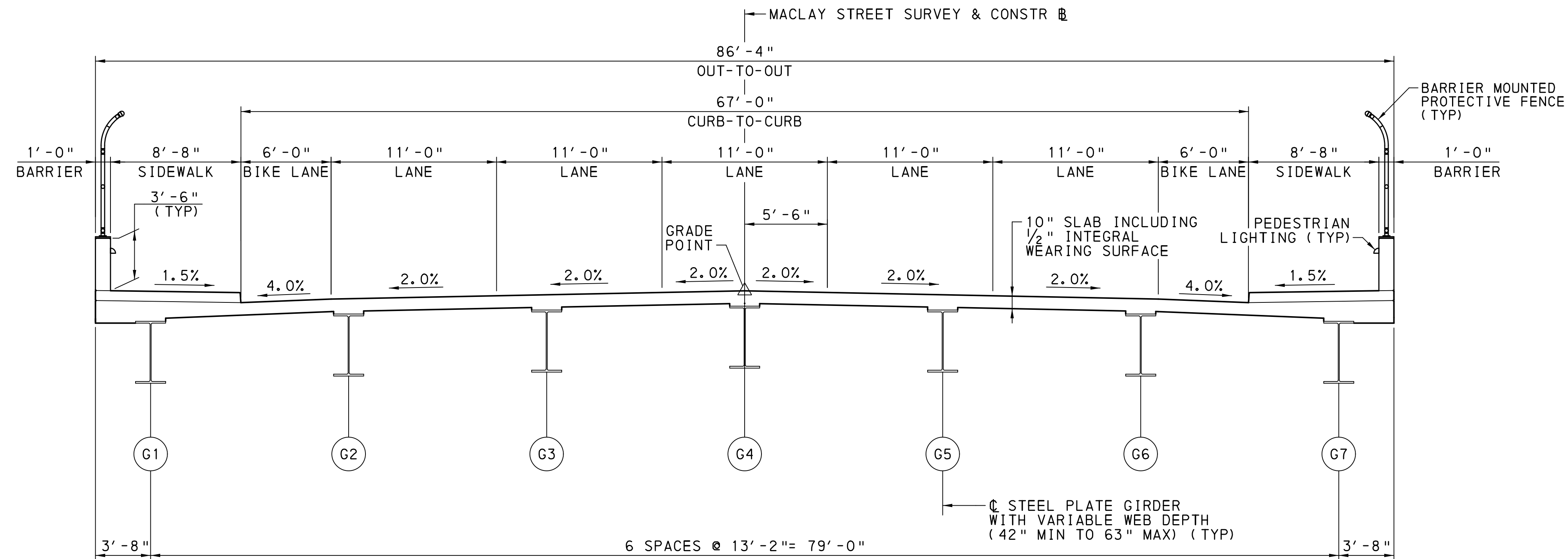
- TOPSOIL, 4" DEPTH AND SEEDING AND SOIL SUPPLEMENTS FORMULA B OR FORMULA L
 - ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E
 - ② SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
 - ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
 - ④ SUBBASE 8" DEPTH (NO. 2A)
 - ⑤ GEOTEXTILE, CLASS 4, TYPE A
- NOTE: APPLY ASPHALT TACK COAT BETWEEN EACH PAVEMENT LAYER.



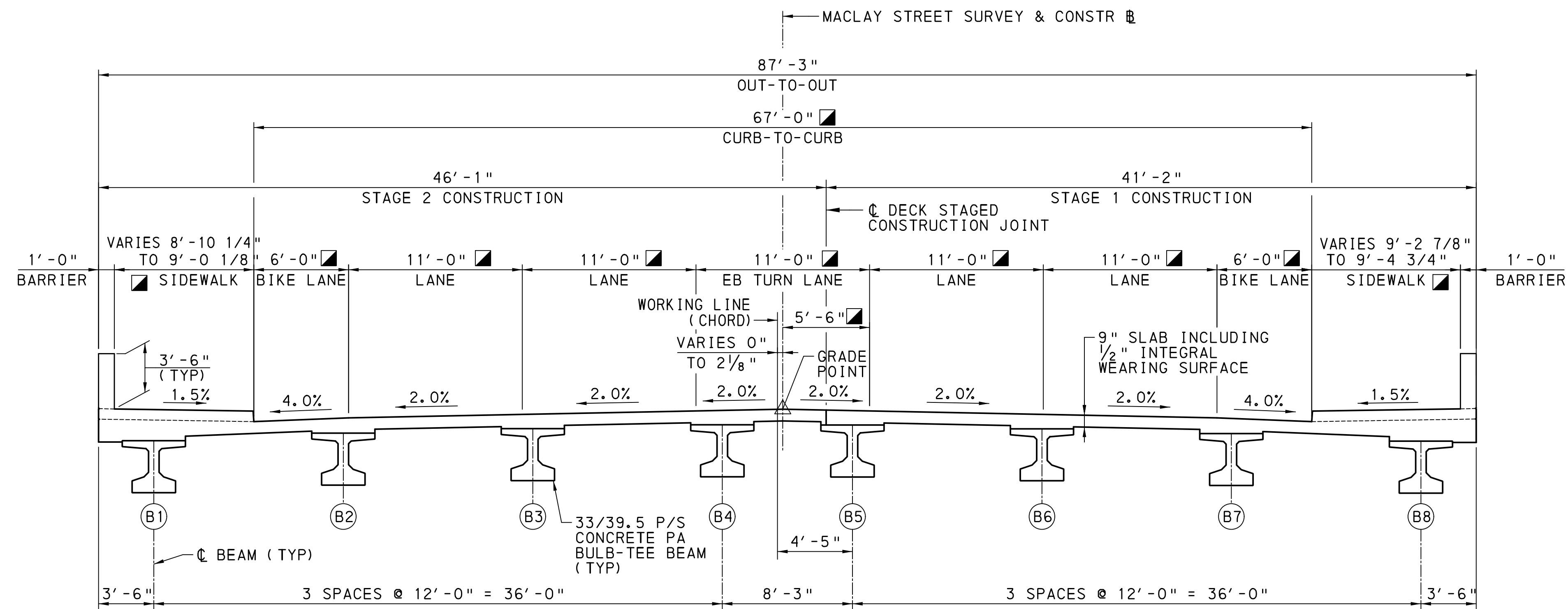
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TYPICAL SECTIONS - MACLAY STREET

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	7 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

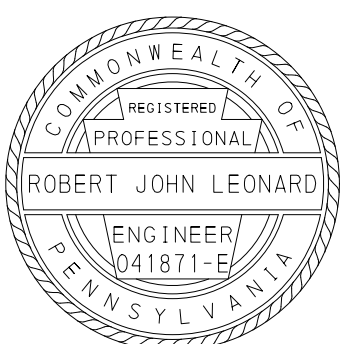


BRIDGE SECTION
NOT TO SCALE
STA 36+08.92 TO STA 41+10.08



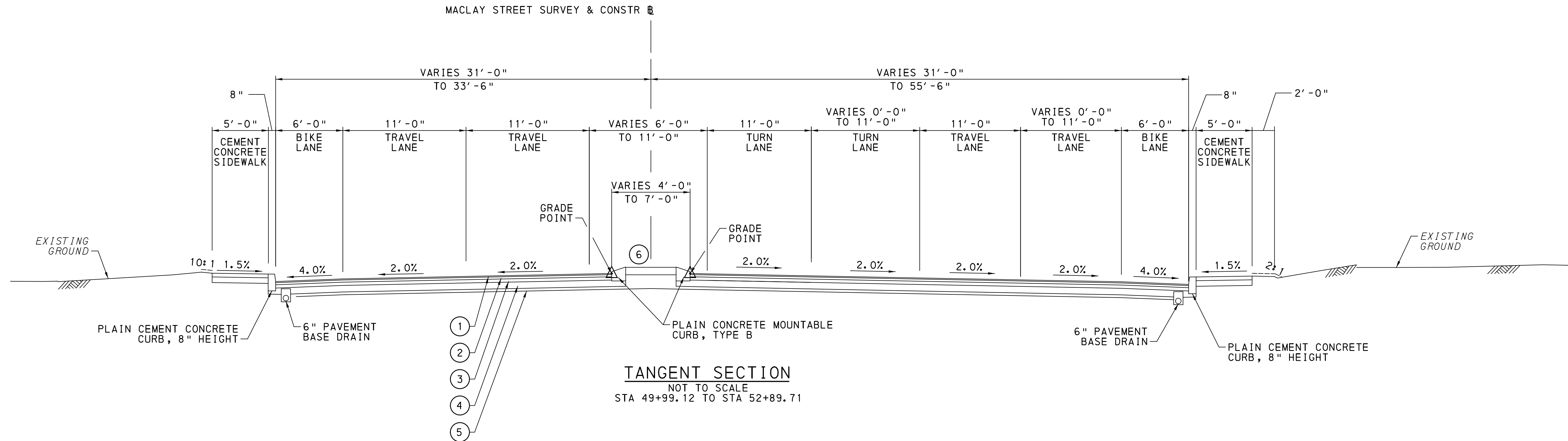
■ MEASURED RADIALLY WITH RESPECT TO MACLAY STREET SURVEY & CONSTR B.
ALL OTHER DIMENSIONS MEASURED PERPENDICULAR TO WORKING LINE (CHORD).

BRIDGE SECTION
NOT TO SCALE
STA 46+11.50 TO STA 46+79.50



TYPICAL SECTIONS - MACLAY STREET

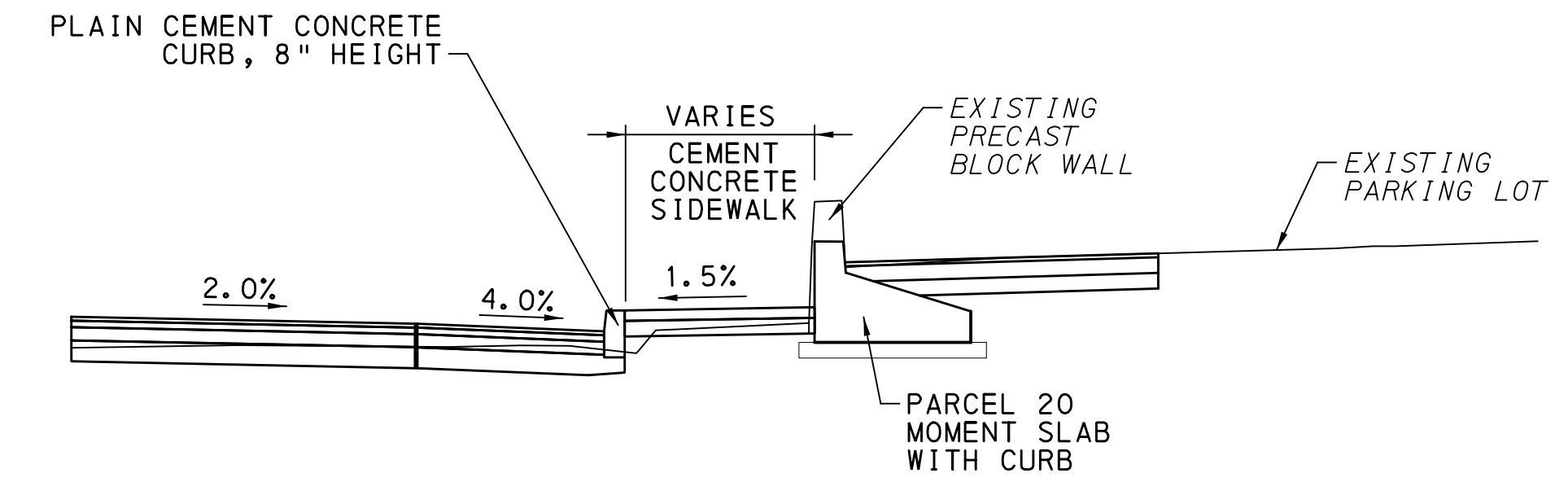
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	8 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



TANGENT SECTION
NOT TO SCALE
STA 49+99.12 TO STA 52+89.71

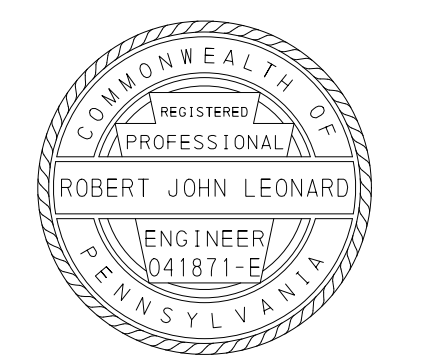
LEGEND

- TOPSOIL, 4" DEPTH AND SEEDING AND SOIL SUPPLEMENTS
FORMULA B OR FORMULA L
 - ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E
 - ② SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
 - ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
 - ④ SUBBASE 8" DEPTH (NO. 2A)
 - ⑤ GEOTEXTILE, CLASS 4, TYPE A
 - ⑥ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
- NOTE: APPLY ASPHALT TACK COAT BETWEEN EACH PAVEMENT LAYER.

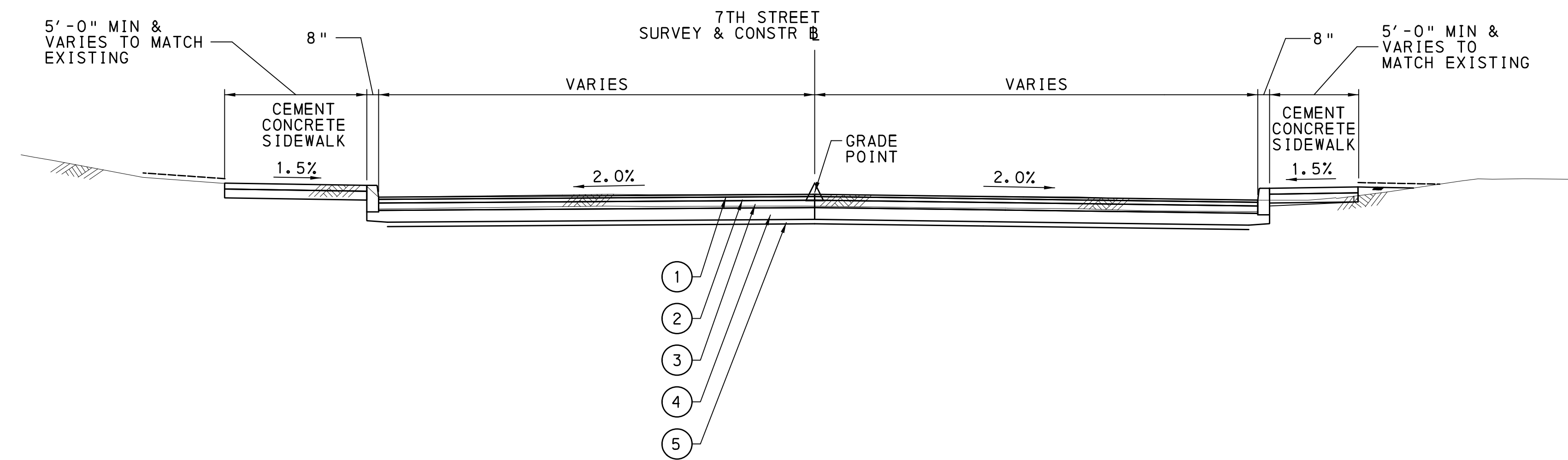


MOMENT SLAB TYPICAL SECTION
NOT TO SCALE
STA 49+59.39 TO STA 50+18.99

DATE: 5/6/2026 TIME: 03:20 PM FILENAME: S:\Drawings\Cons\tr\lan\Typ\cal\3022-Typ\cal\003.dgn



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	9 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

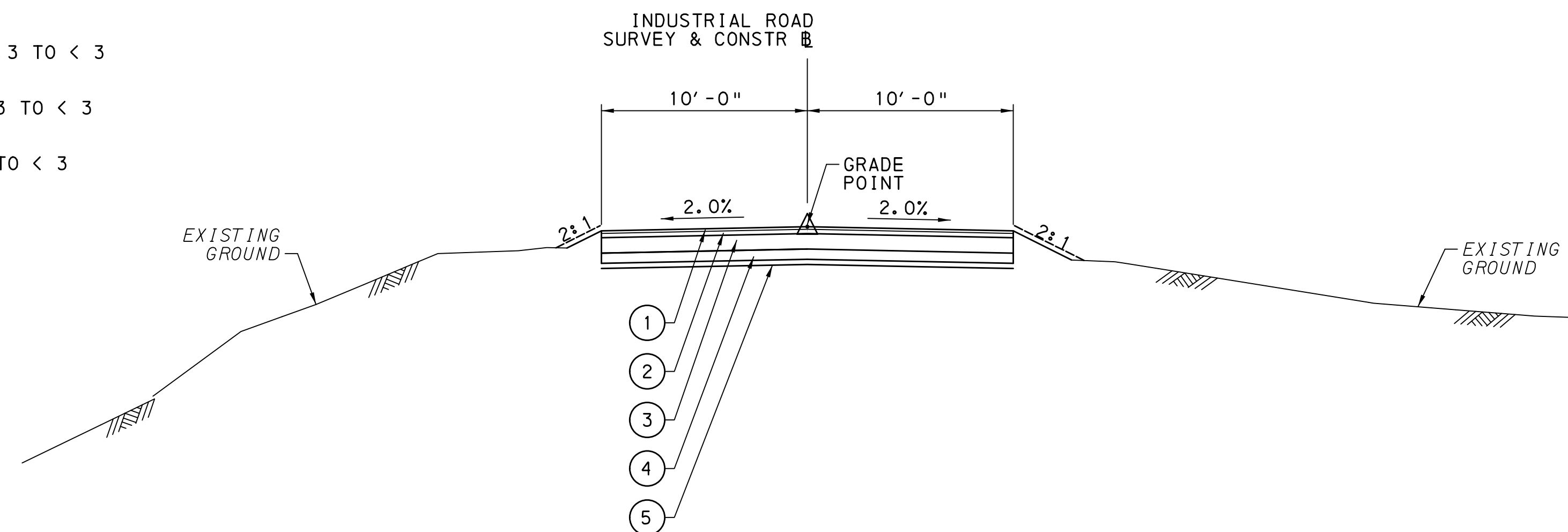


7TH STREET TYPICAL SECTION

NOT TO SCALE
STA 10+33.50 TO STA 12+75.03

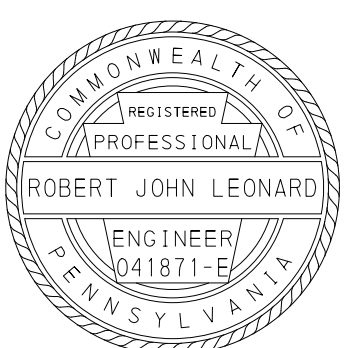
LEGEND

- TOPSOIL, 4" DEPTH AND SEEDING AND SOIL SUPPLEMENTS
FORMULA B OR FORMULA L
 - ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E
 - ② SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
 - ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
 - ④ SUBBASE 8" DEPTH (NO. 2A)
 - ⑤ GEOTEXTILE, CLASS 4, TYPE A
 - ⑥ PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH
- NOTE: APPLY ASPHALT TACK COAT BETWEEN EACH PAVEMENT LAYER.

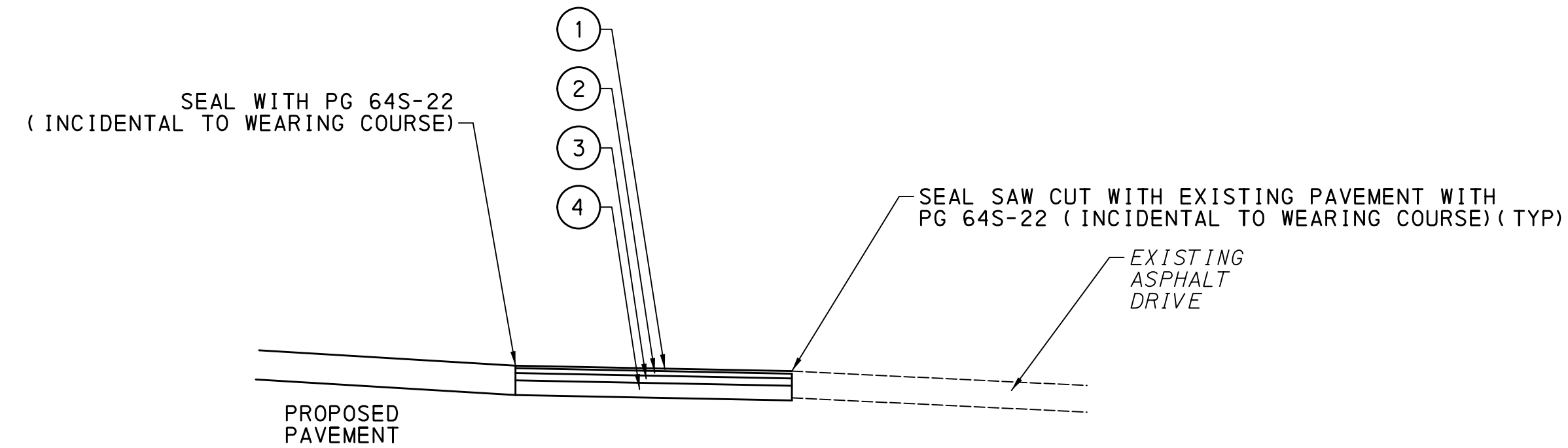


INDUSTRIAL RD TYPICAL SECTION

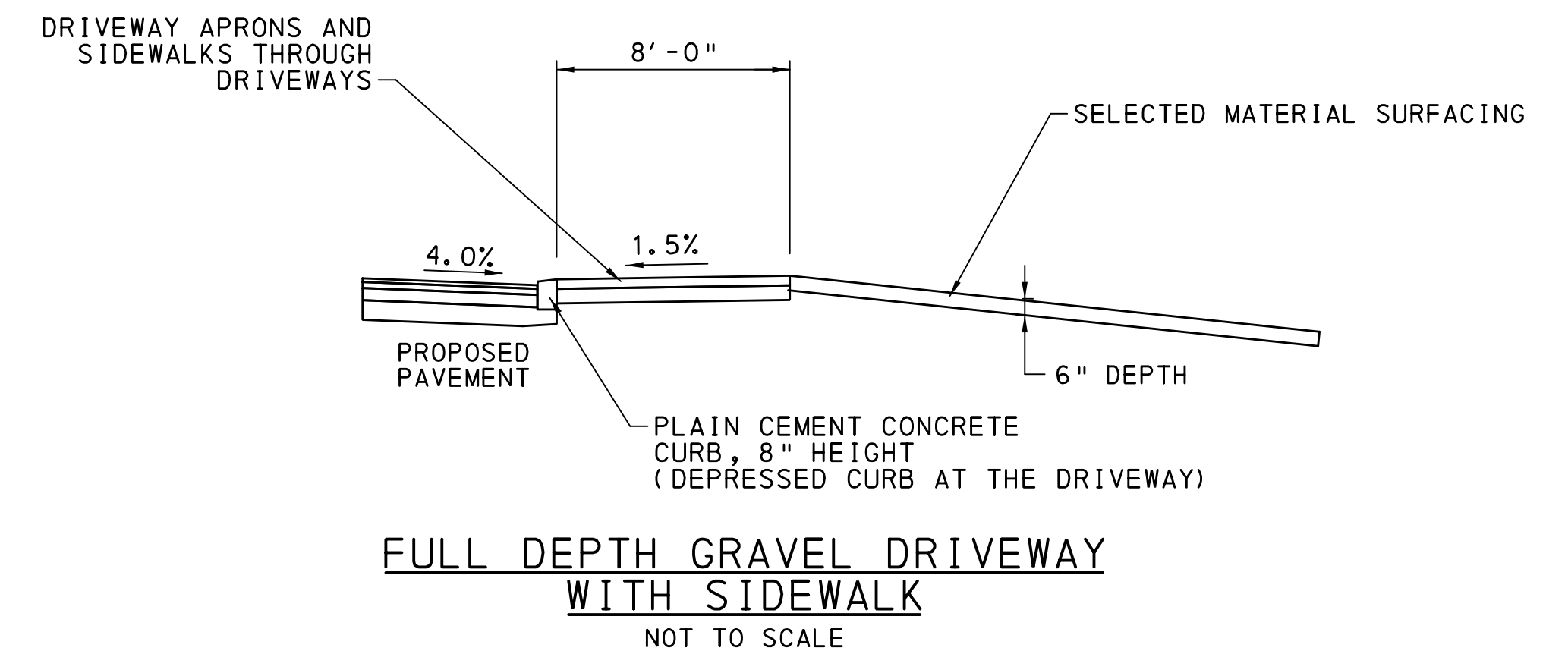
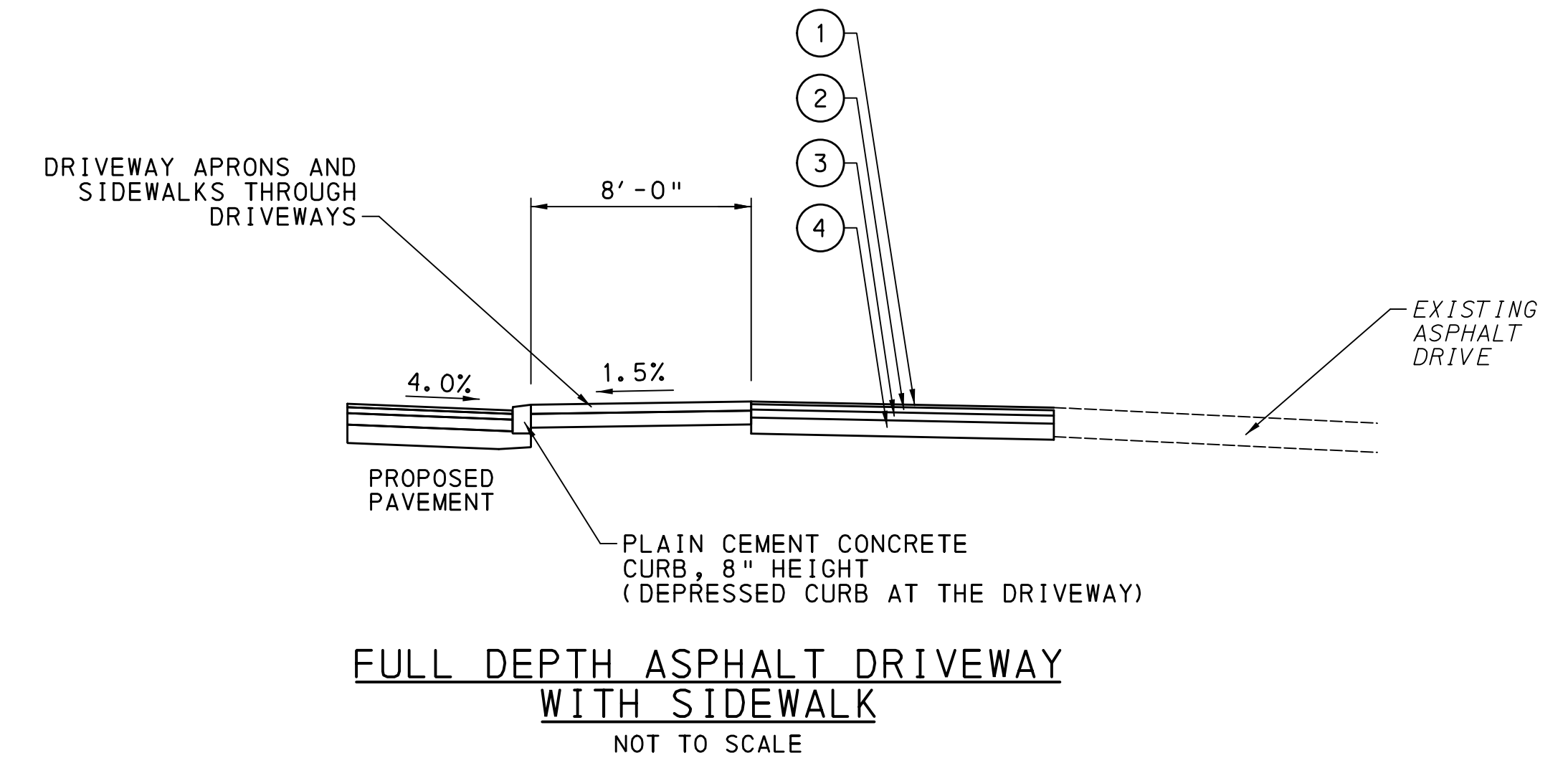
NOT TO SCALE
STA 10+33.50 TO STA 12+75.03



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	10 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



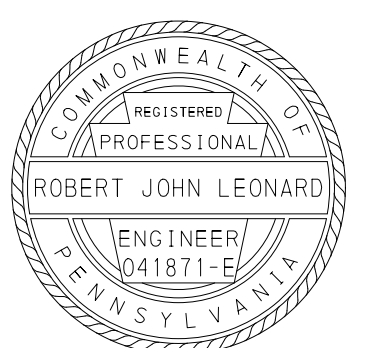
FULL DEPTH ASPHALT DRIVEWAY
WITHOUT SIDEWALK
NOT TO SCALE



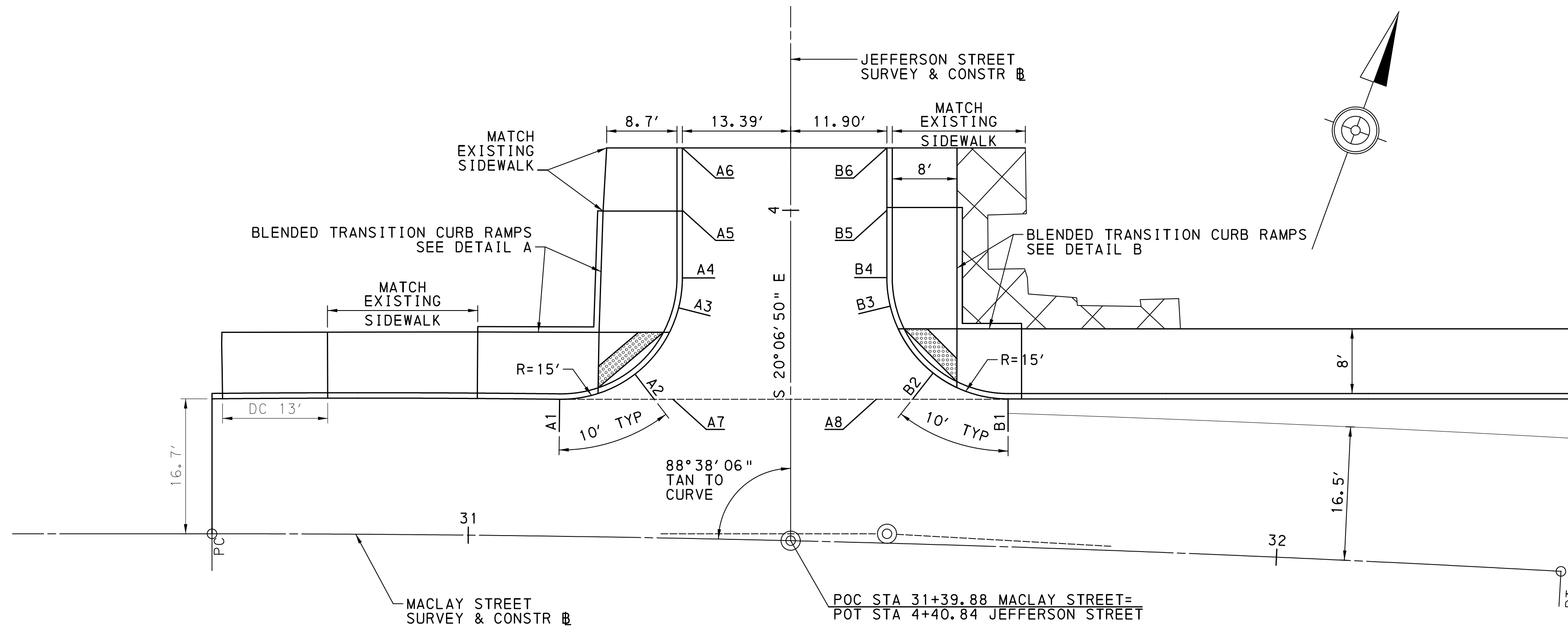
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E
- ② SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH
- ④ SUBBASE 8" DEPTH (NO. 2A)

NOTE: APPLY ASPHALT TACK COAT BETWEEN EACH PAVEMENT LAYER.

DRIVEWAYS DETAILS

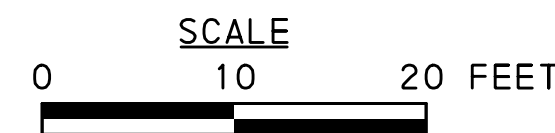


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	11 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



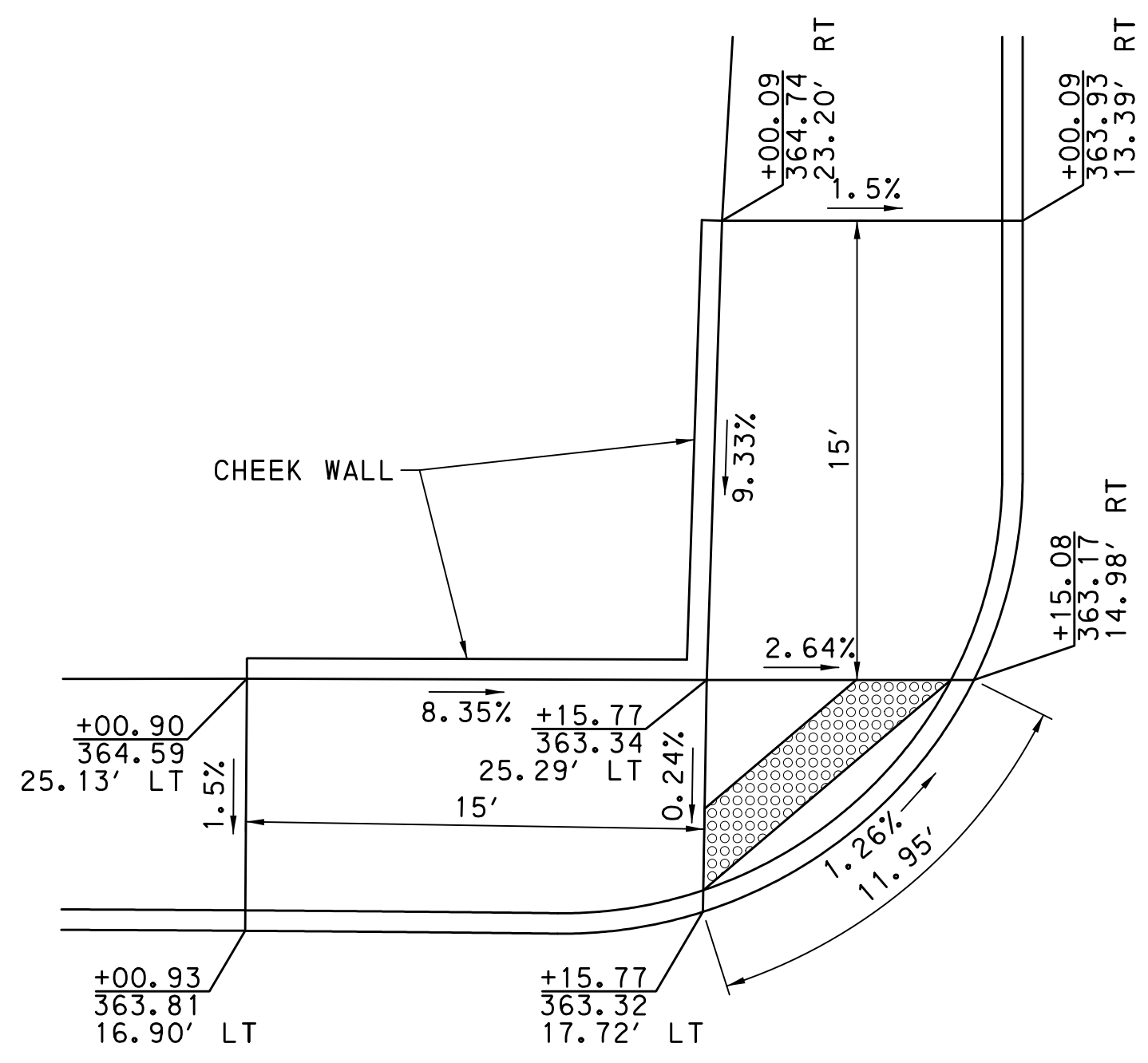
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

MACLAY STREET/JEFFERSON STREET INTERSECTION GRADING DETAIL

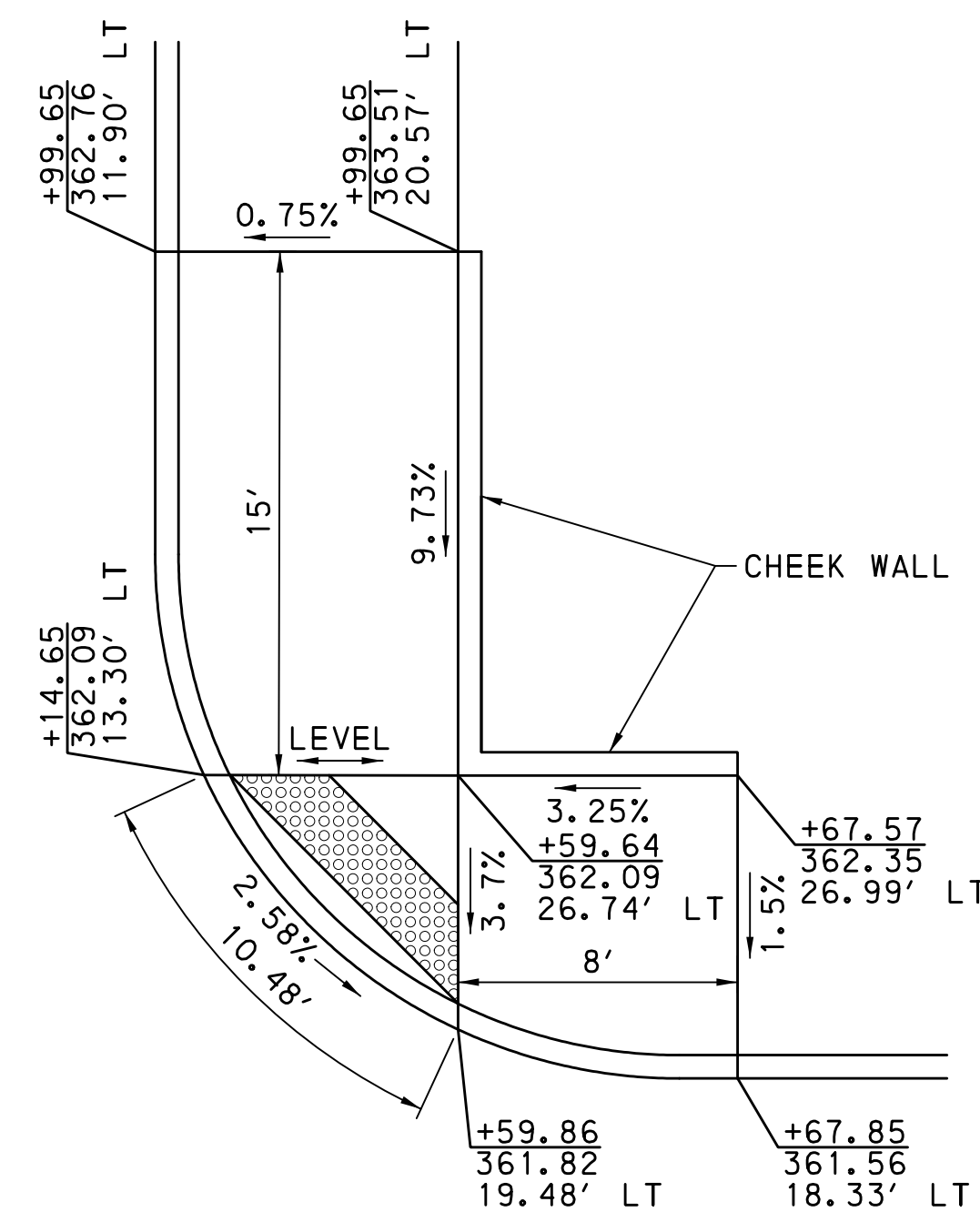
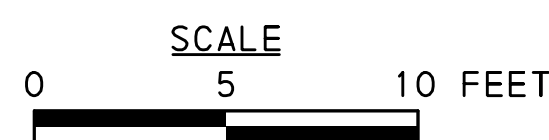


POINT NO.	JEFFERSON STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	4+23.36	28.57'	RT	363.47
A2	4+20.25	19.26'	RT	363.21
A3	4+12.05	13.86'	RT	363.24
A4	4+08.36	13.39'	RT	363.44
A5	4+00.00	13.39'	RT	363.93
A6	3+92.28	13.39'	RT	364.36
POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A7	31+25.00	17.17'	LT	363.00
A8	31+50.00	17.75'	LT	362.16

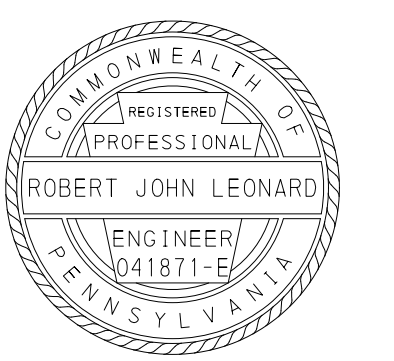
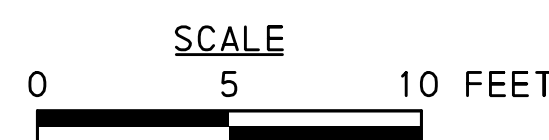
POINT NO.	JEFFERSON STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	4+23.32	26.90'	LT	361.62
B2	4+20.10	17.62'	LT	361.91
B3	4+11.84	12.32'	LT	362.20
B4	4+08.32	11.90'	LT	362.38
B5	4+00.00	11.90'	LT	362.75
B6	3+92.28	11.90'	LT	363.06



DETAIL A

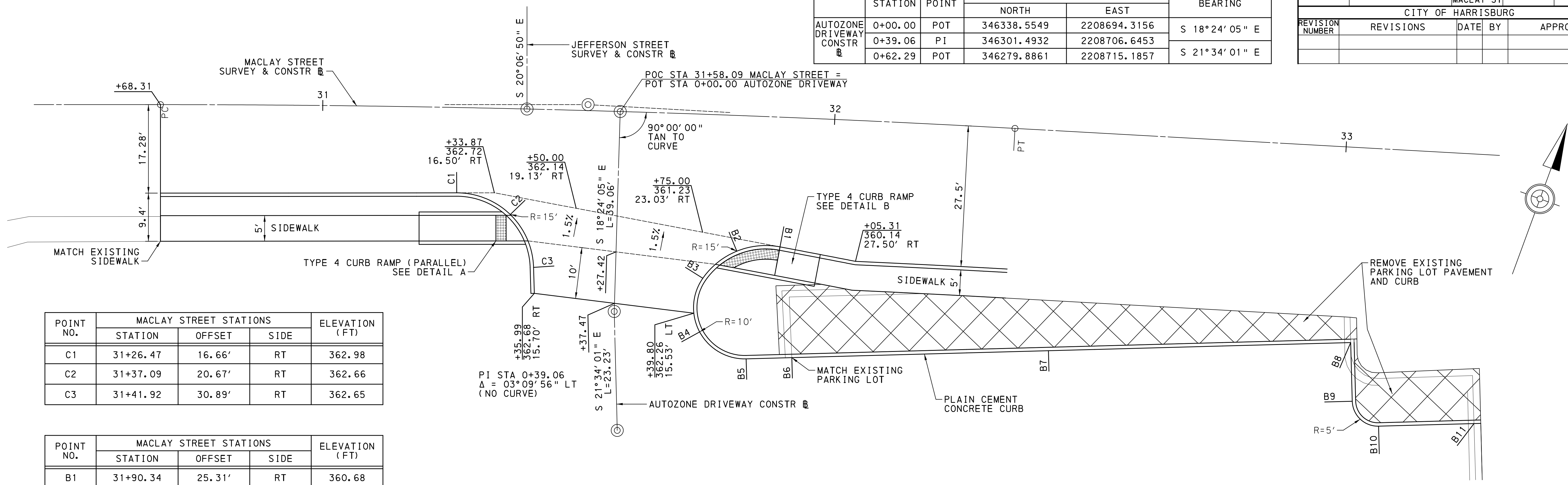


DETAIL B



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	12 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

STATION	POINT	COORDINATES		BEARING	
		NORTH	EAST		
AUTOZONE DRIVEWAY CONSTR	0+00.00	POT	346338.5549	2208694.3156	S 18°24'05" E
	0+39.06	PI	346301.4932	2208706.6453	
	0+62.29	POT	346279.8861	2208715.1857	

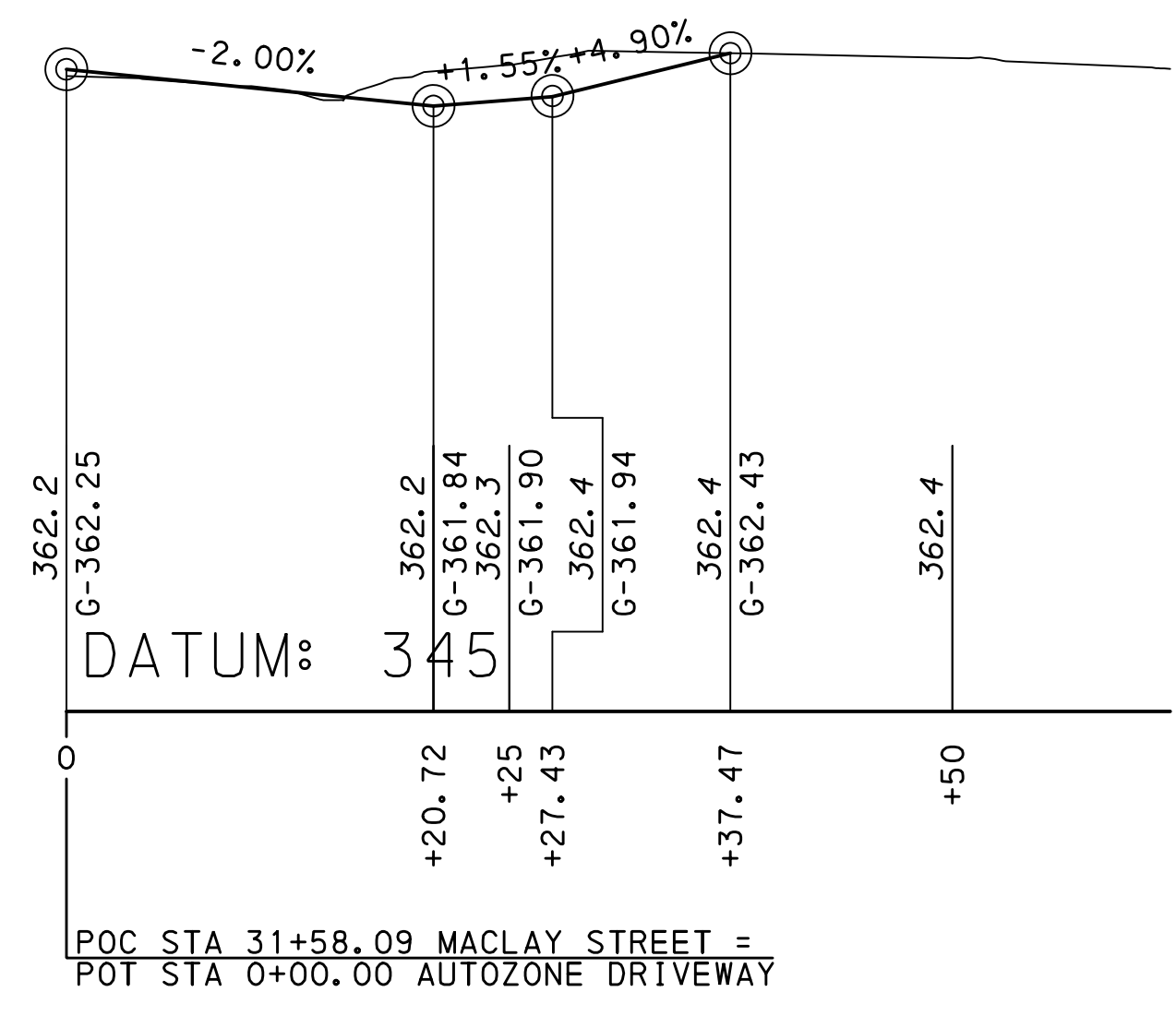
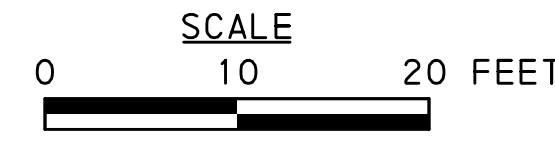


POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
C1	31+26.47	16.66'	RT	362.98
C2	31+37.09	20.67'	RT	362.66
C3	31+41.92	30.89'	RT	362.65

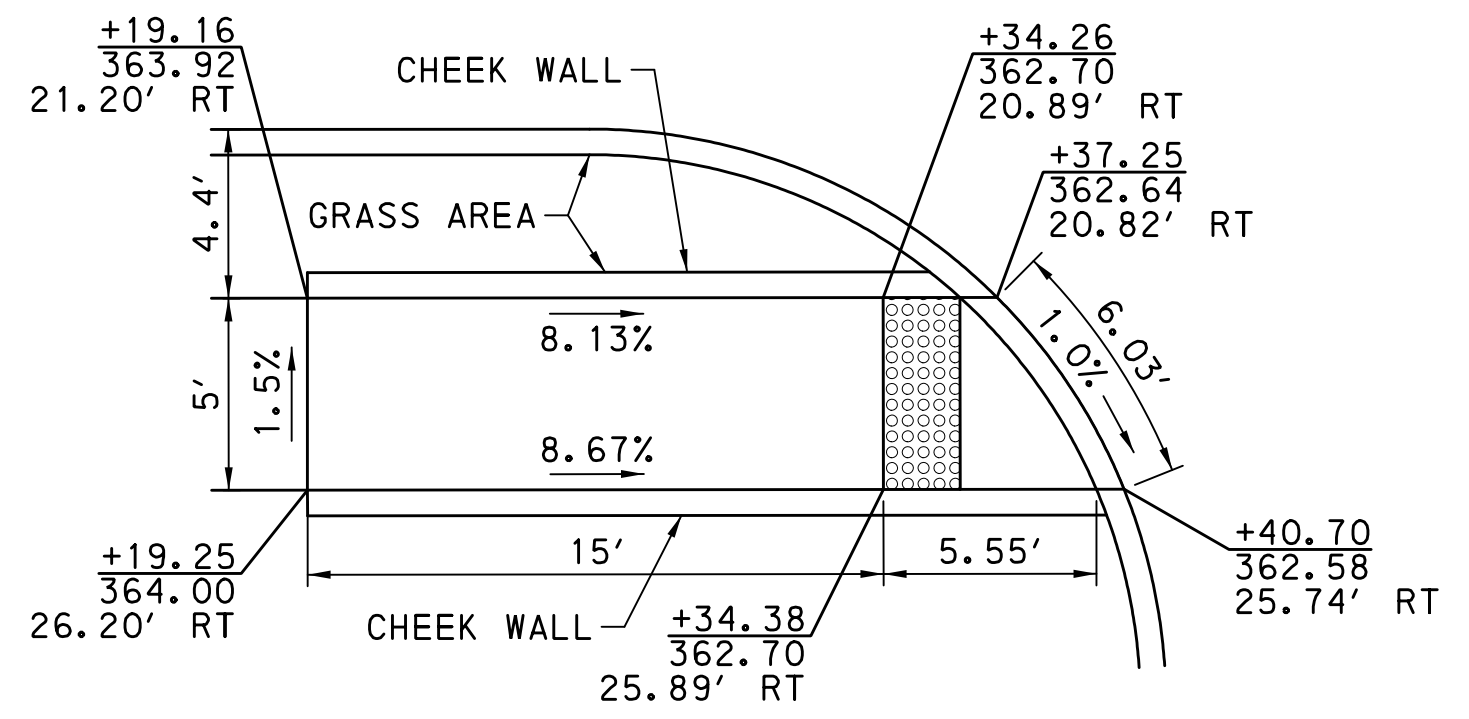
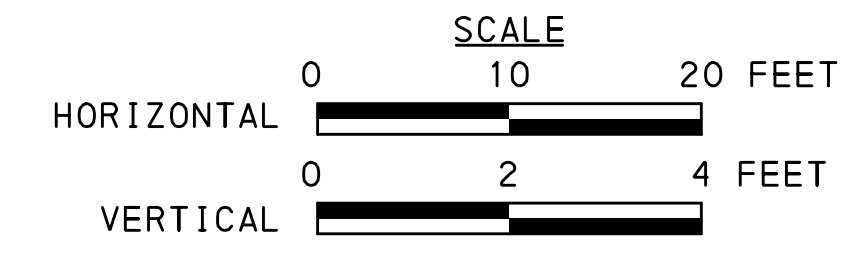
POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	31+90.34	25.31'	RT	360.68
B2	31+81.86	26.49'	RT	361.03
B3	31+75.36	32.01'	RT	361.82
B4	31+75.12	42.51'	RT	362.15
B5	31+84.52	47.42'	RT	362.07
B6	31+93.57	46.83'	RT	361.28
B7	32+44.17	42.97'	RT	360.03
B8	33+03.00	38.10'	RT	358.53
B9	33+03.95	49.53'	RT	358.42
B10	33+09.34	54.10'	RT	358.14
B11	33+27.92	52.56'	RT	357.20

NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

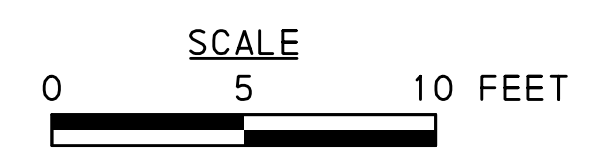
MACLAY STREET/AUTOZONE DRIVEWAY INTERSECTION GRADING DETAIL



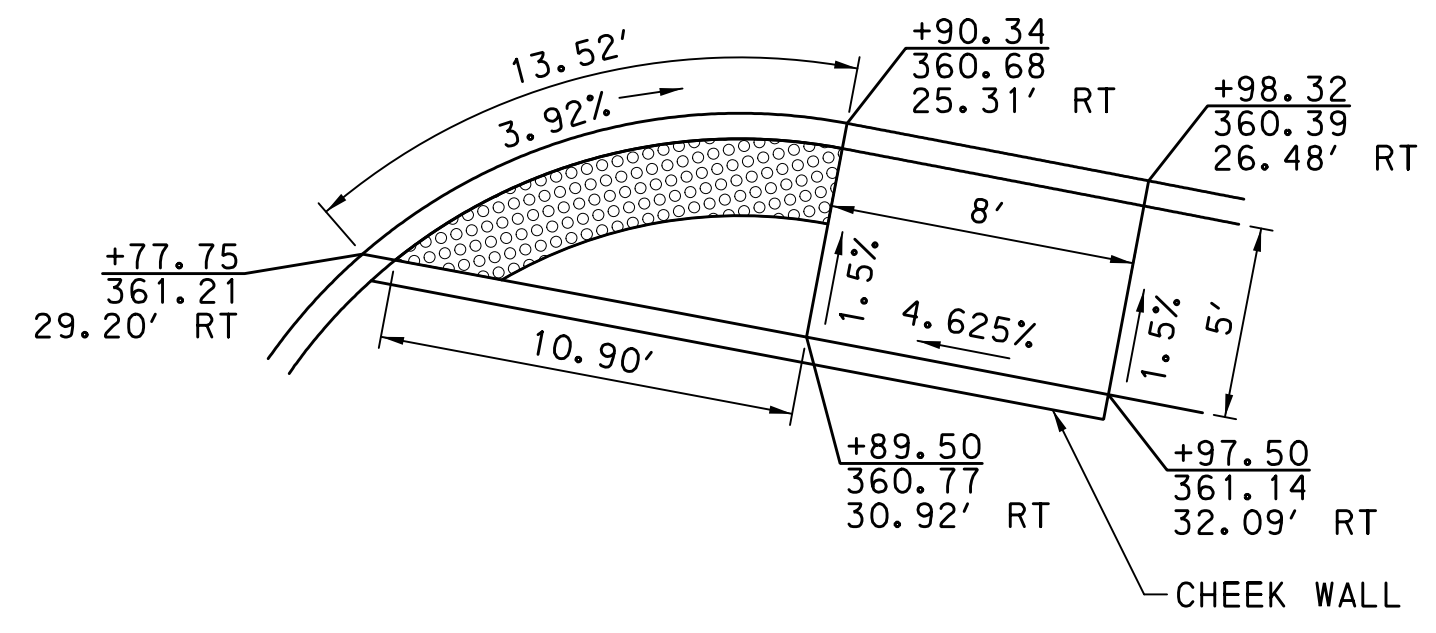
PROFILE



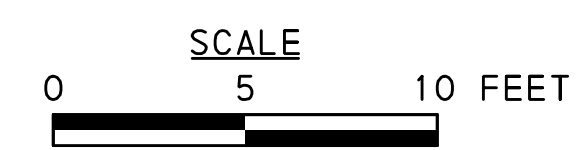
DETAIL A



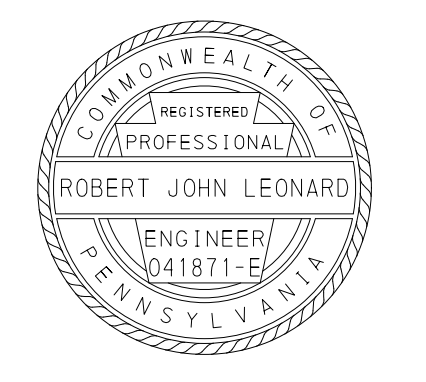
NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



DETAIL B

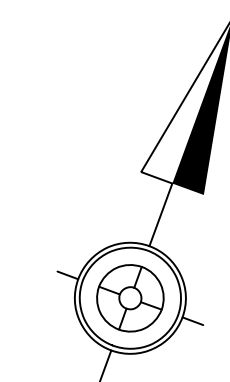
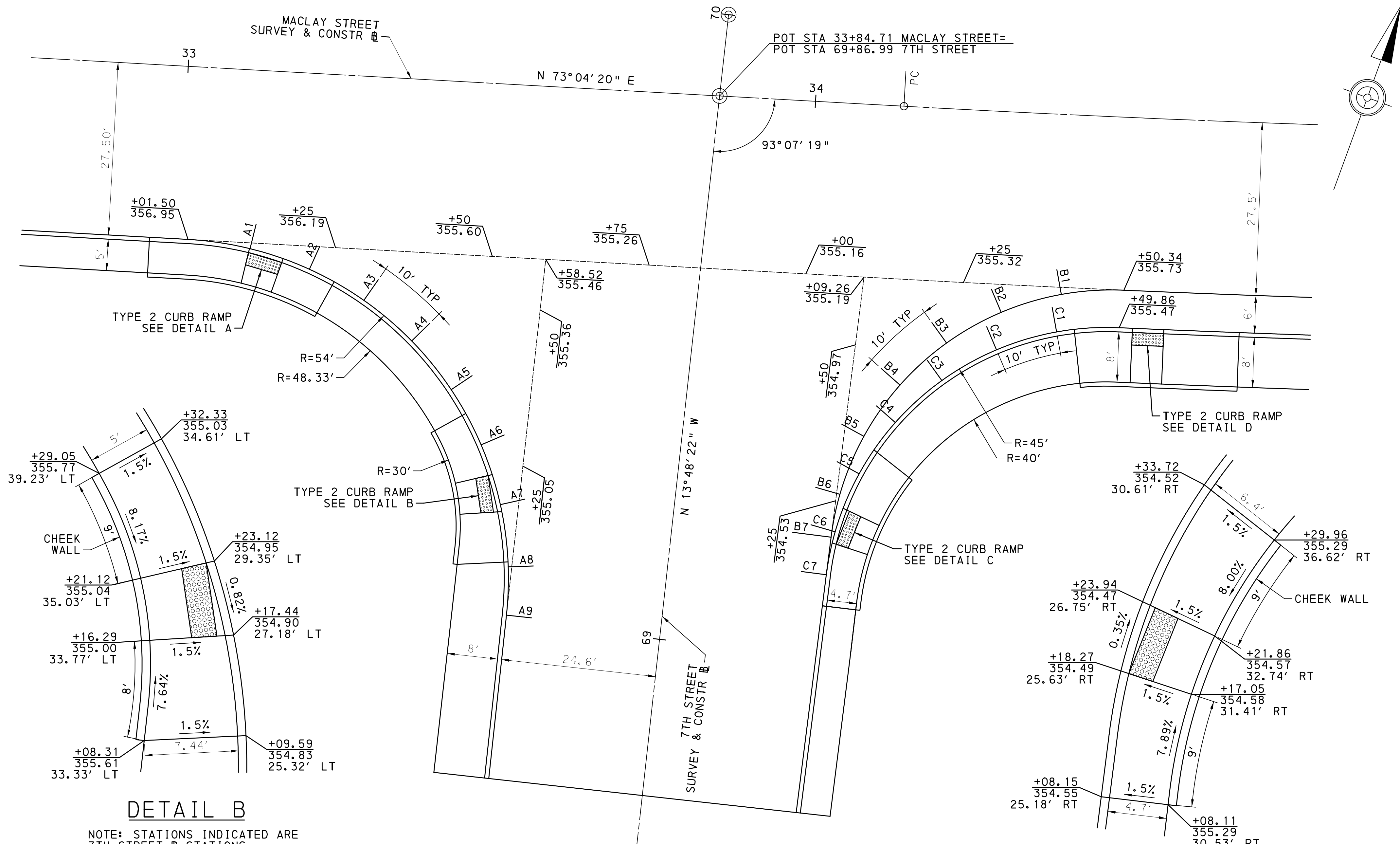


NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	13 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



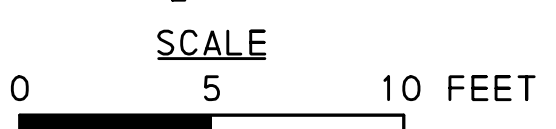
POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	69+54.62	71.61'	LT	356.52
A2	69+52.41	61.87'	LT	356.10
A3	69+48.44	52.71'	LT	355.67
A4	69+42.85	44.43'	LT	355.24
A5	69+35.84	37.32'	LT	355.07
A6	69+27.64	31.63'	LT	354.99
A7	69+18.53	27.54'	LT	354.91
A8	69+08.82	25.20'	LT	354.83
A9	69+01.15	24.65'	LT	354.76

POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	69+61.58	57.53'	RT	355.51
B2	69+57.69	48.34'	RT	355.29
B3	69+51.88	40.23'	RT	355.07
B4	69+44.42	33.60'	RT	354.85
B5	69+35.68	28.78'	RT	354.64
B6	69+26.10	26.00'	RT	354.52
B7	69+19.16	25.35'	RT	354.51

POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
C1	69+55.56	57.44'	RT	355.23
C2	69+51.68	48.25'	RT	355.01
C3	69+45.86	40.14'	RT	354.80
C4	69+38.40	33.51'	RT	354.60
C5	69+29.67	28.68'	RT	354.48
C6	69+20.08	25.91'	RT	354.48
C7	69+13.14	25.25'	RT	354.52

DETAIL B

NOTE: STATIONS INDICATED ARE 7TH STREET STATIONS.

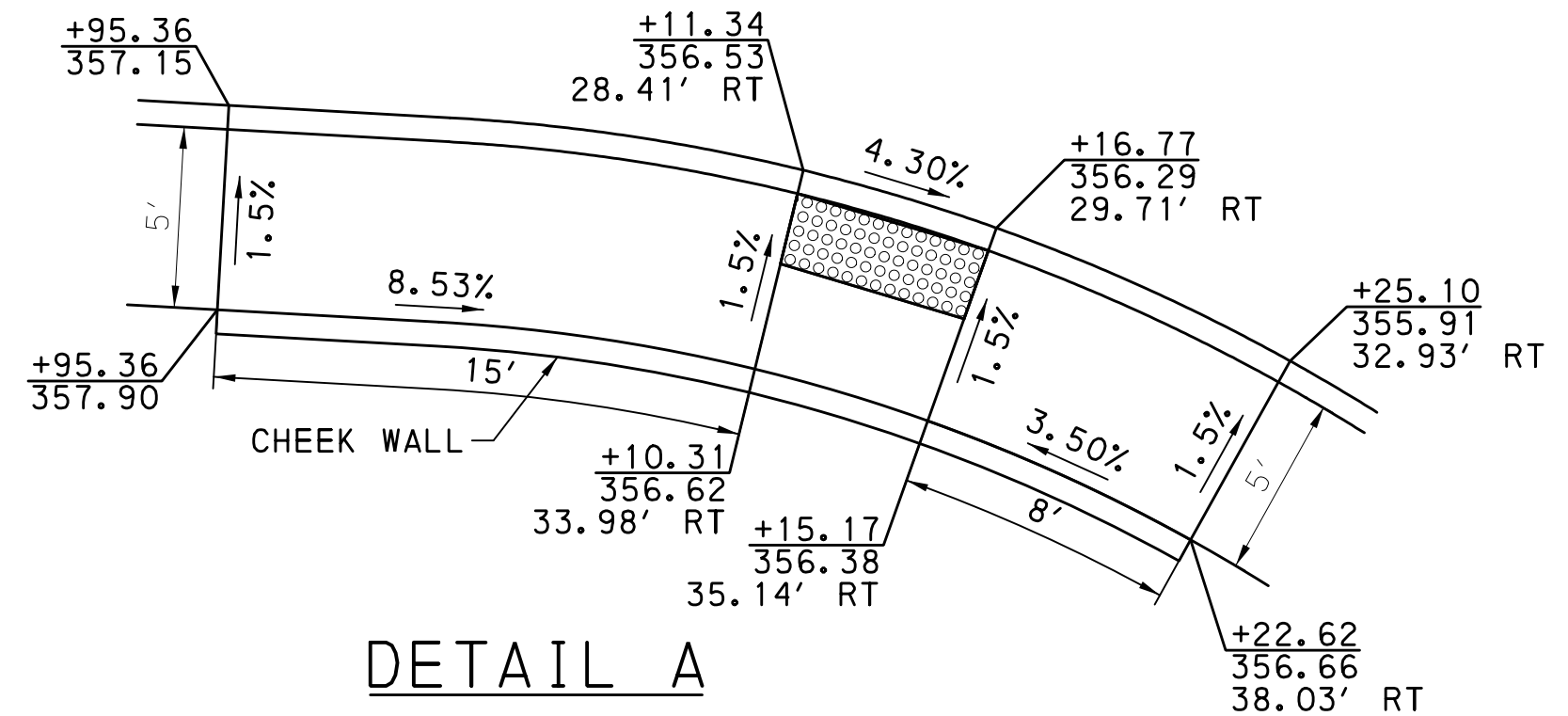
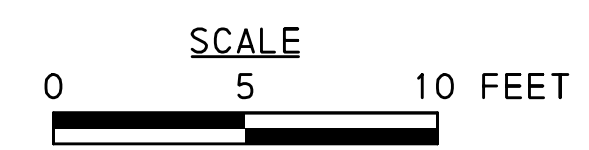


NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

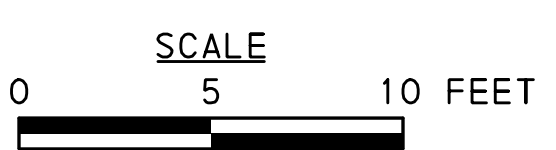
MACLAY STREET/7TH STREET (SOUTH LEG) INTERSECTION GRADING DETAIL

DETAIL C

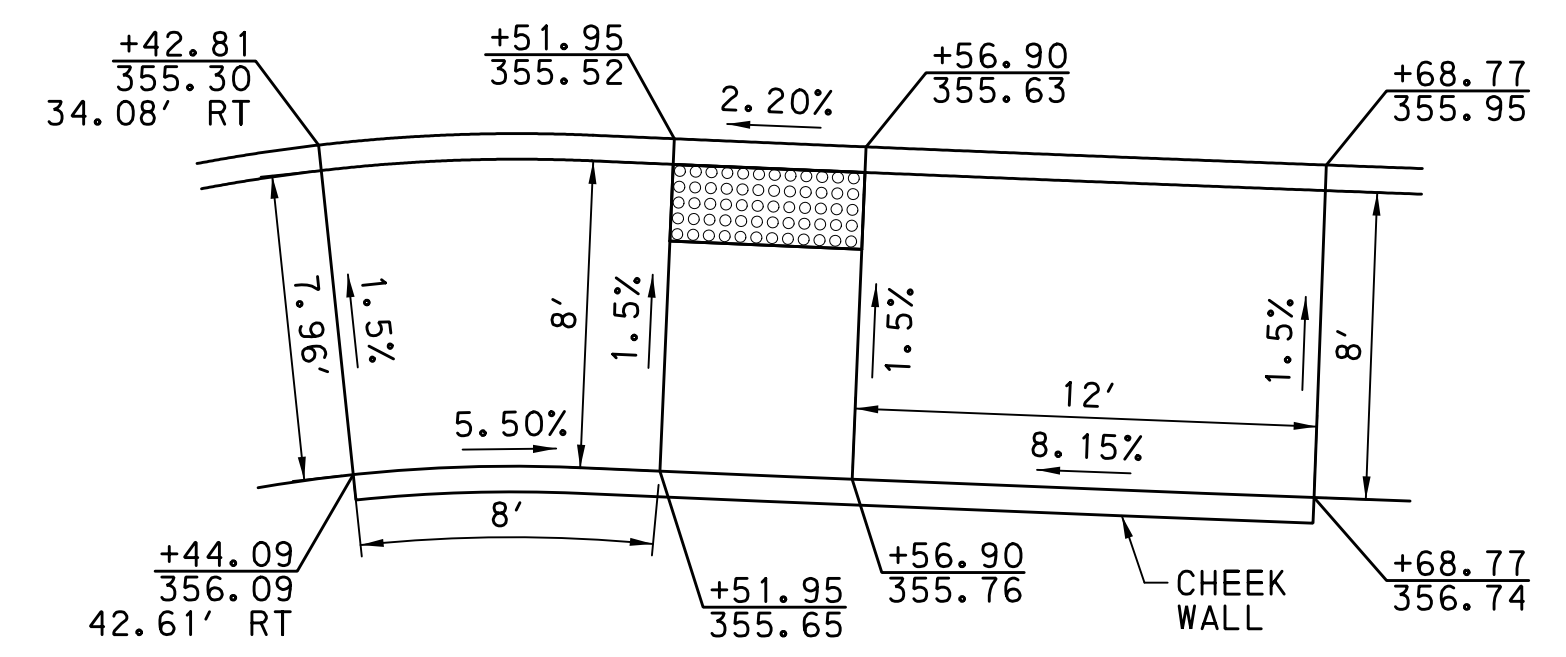
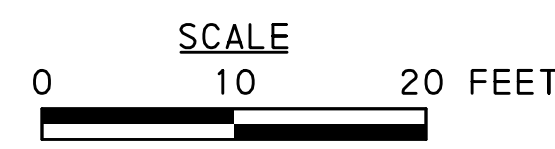
NOTE: STATIONS INDICATED ARE 7TH STREET STATIONS.



DETAIL A

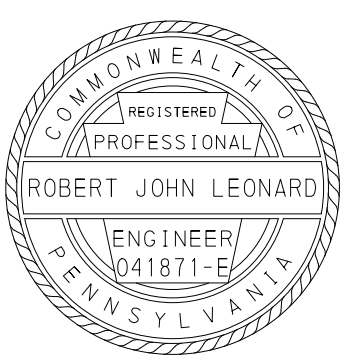
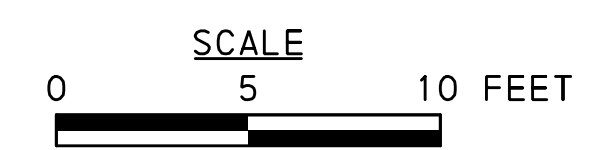


NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



DETAIL D

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



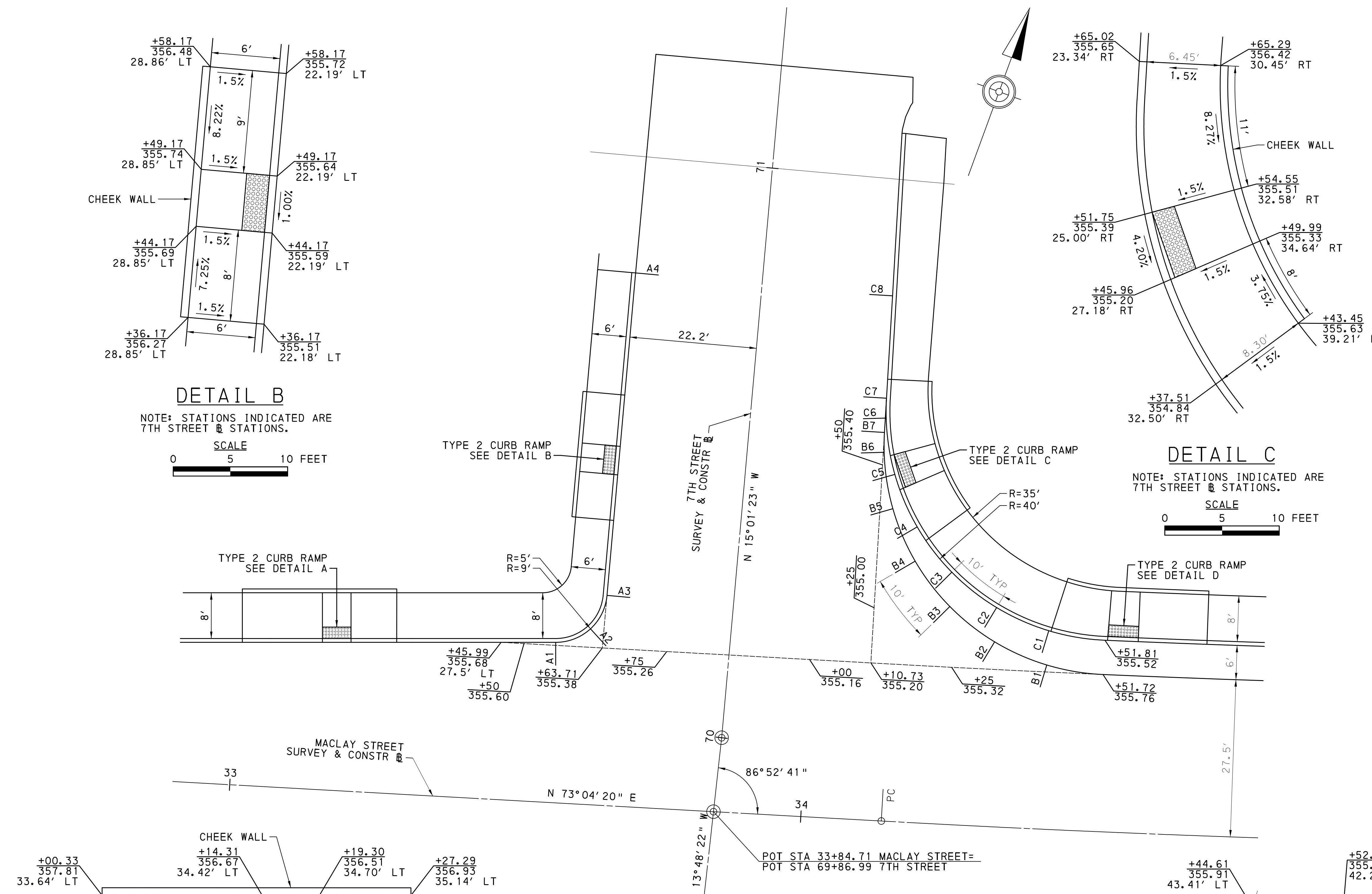
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	14 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	70+14.04	30.38'	LT	355.49
A2	70+16.93	24.54'	LT	355.43
A3	70+23.00	22.18'	LT	355.38
A4	70+79.61	22.20'	LT	355.93

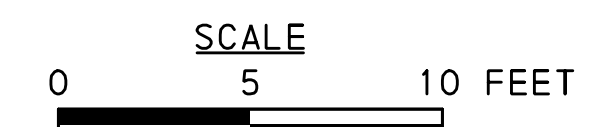
POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	70+17.72	55.49'	RT	355.49
B2	70+20.94	46.05'	RT	355.13
B3	70+26.40	37.70'	RT	354.87
B4	70+33.75	30.96'	RT	354.87
B5	70+42.55	26.25'	RT	355.19
B6	70+52.23	23.87'	RT	355.43
B7	70+55.69	23.62'	RT	355.49

POINT NO.	7TH STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
C1	70+23.71	55.31'	RT	355.18
C2	70+26.94	45.87'	RT	354.79
C3	70+32.40	37.52'	RT	354.70
C4	70+39.75	30.78'	RT	354.94
C5	70+48.54	26.08'	RT	355.29
C6	70+58.23	23.69'	RT	355.52
C7	70+61.69	23.44'	RT	355.59
C8	70+79.61	22.90'	RT	355.89



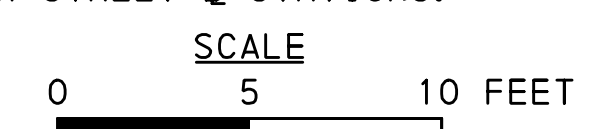
DETAIL B

NOTE: STATIONS INDICATED ARE 7TH STREET STATIONS.



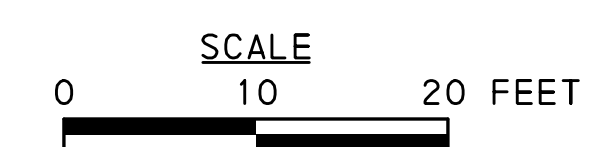
DETAIL C

NOTE: STATIONS INDICATED ARE 7TH STREET STATIONS.



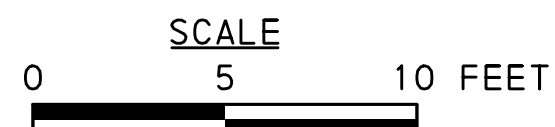
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

MACLAY STREET/7TH STREET (NORTH LEG) INTERSECTION GRADING DETAIL



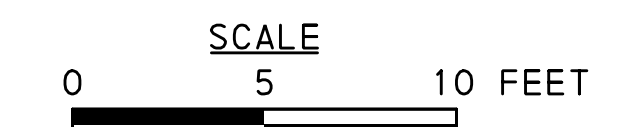
DETAIL A

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.

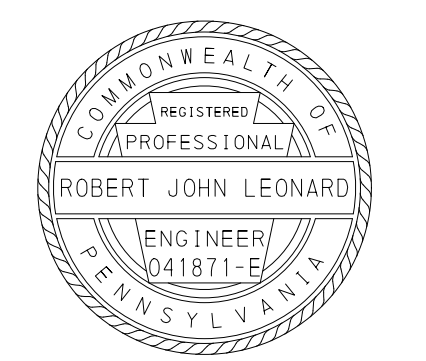


DETAIL D

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



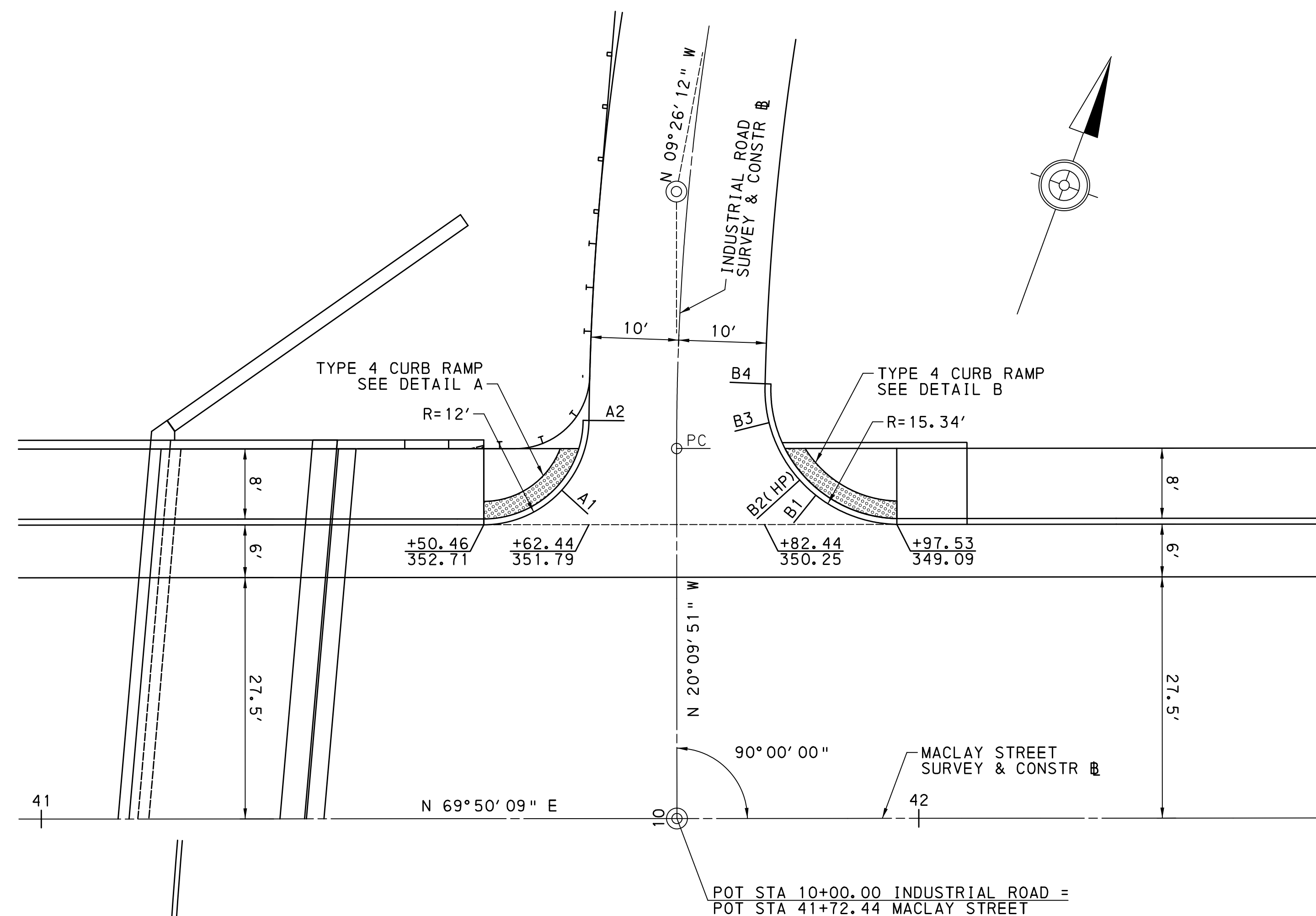
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	15 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

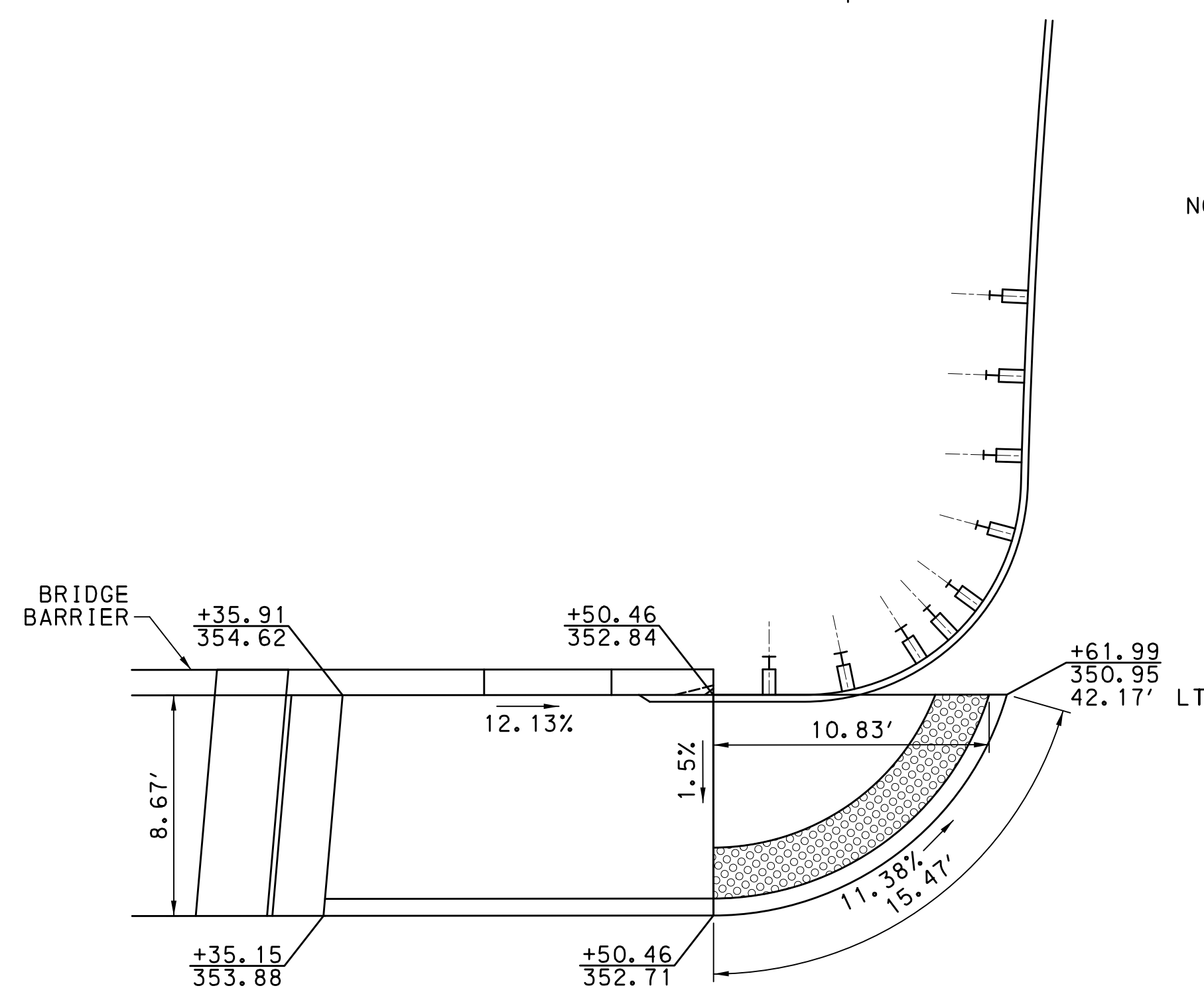
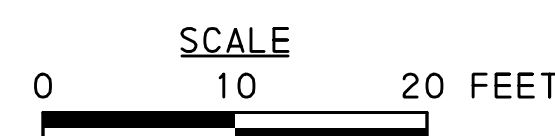
POINT NO.	INDUSTRIAL ROAD STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	10+37.43	13.10'	LT	351.61
A2	10+45.28	10.00'	LT	350.60

POINT NO.	INDUSTRIAL ROAD STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	10+36.84	15.85'	RT	349.59
B2	10+38.56	14.03'	RT	349.62
B3	10+45.21	10.52'	RT	349.40
B4	10+49.78	10.00'	RT	349.08



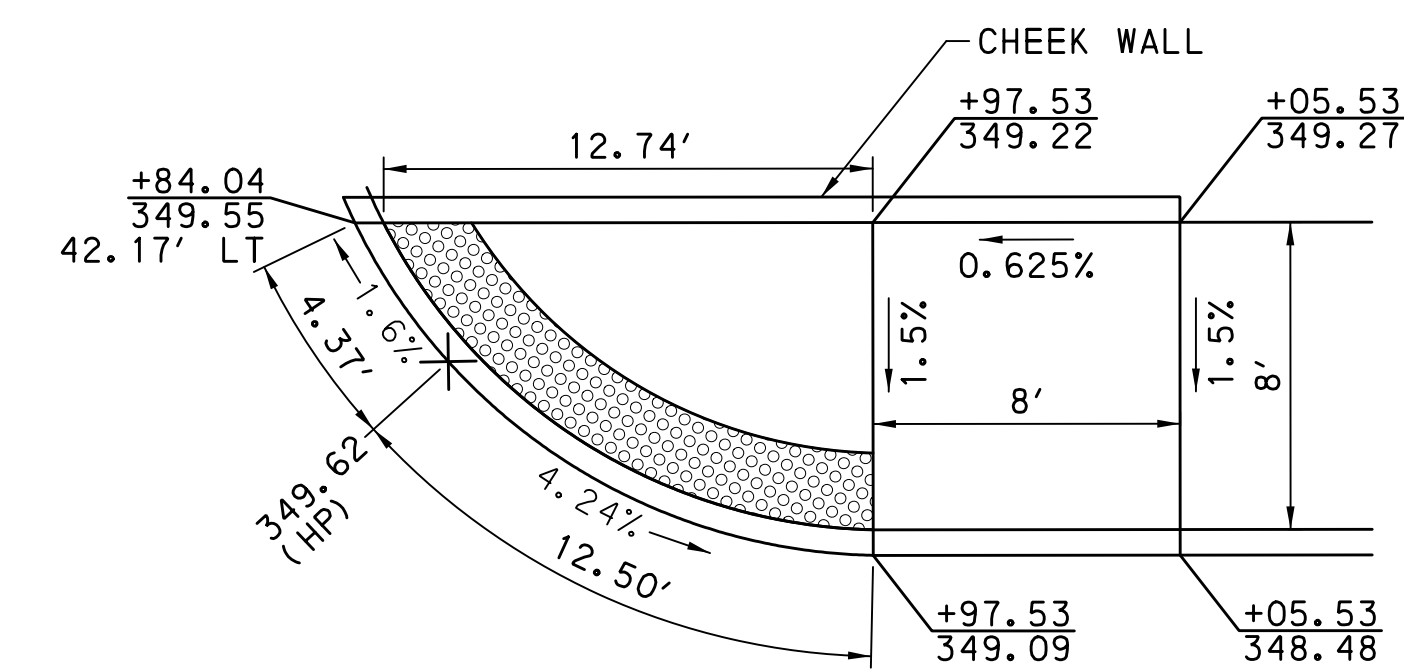
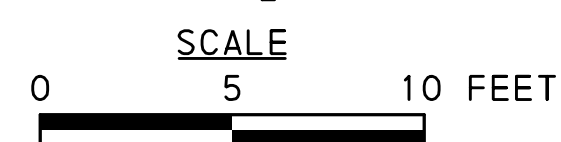
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

MACLAY STREET/INDUSTRIAL ROAD INTERSECTION GRADING DETAIL



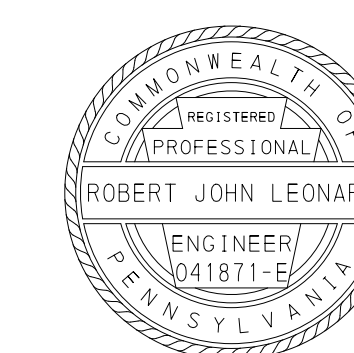
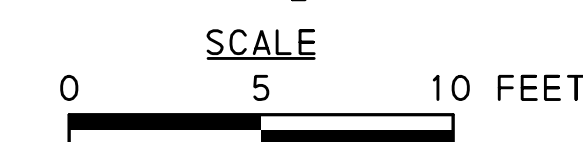
DETAIL A

NOTE: STATIONS INDICATED ARE
MACLAY STREET STATIONS.



DETAIL B

NOTE: STATIONS INDICATED ARE
MACLAY STREET STATIONS.

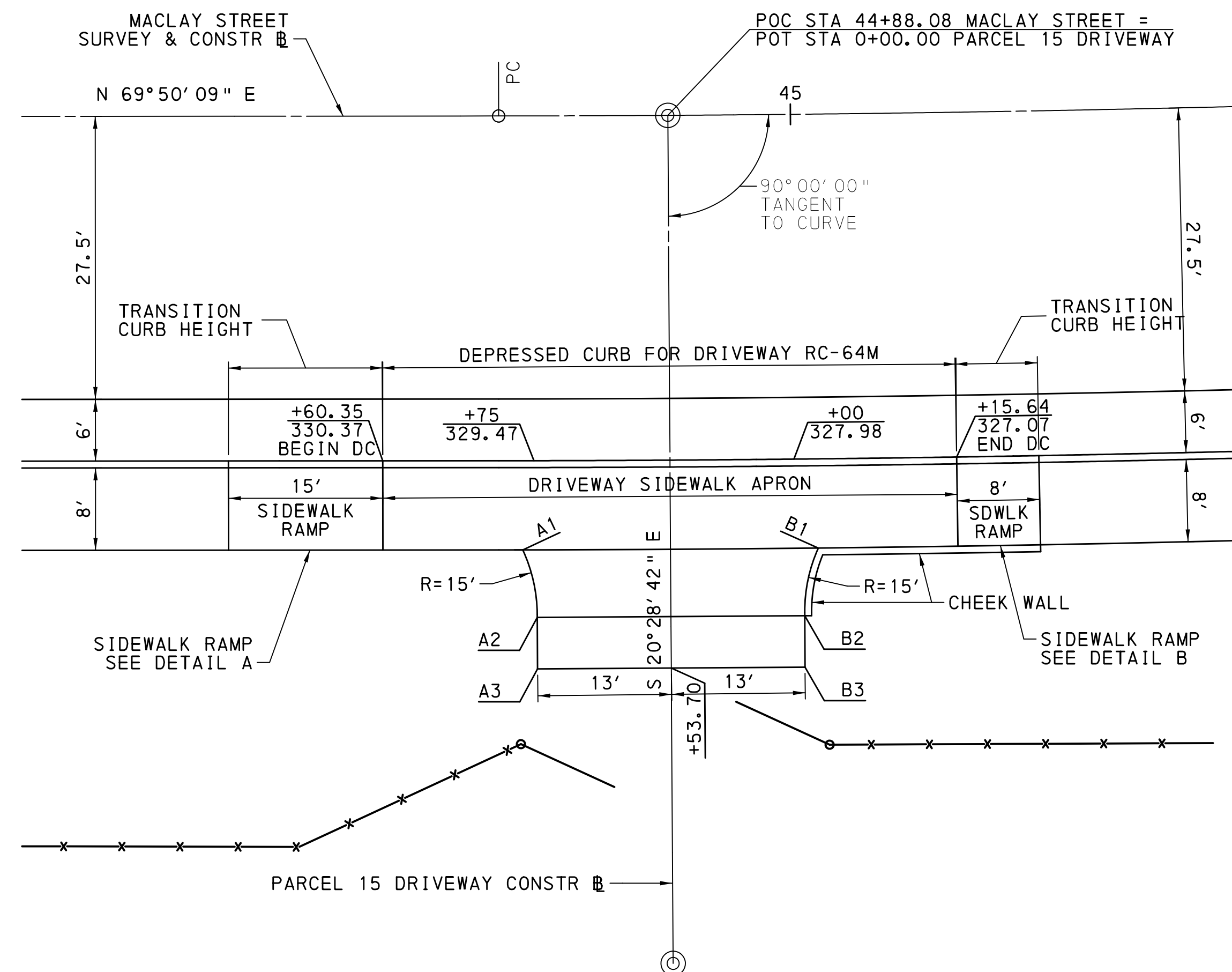


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	16 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

PARCEL 15 CONSTR	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
	0+00.00	POT	346779.7798	2209948.6436	S 20°28'42" E
	0+82.40	POT	346702.5881	2209977.4712	

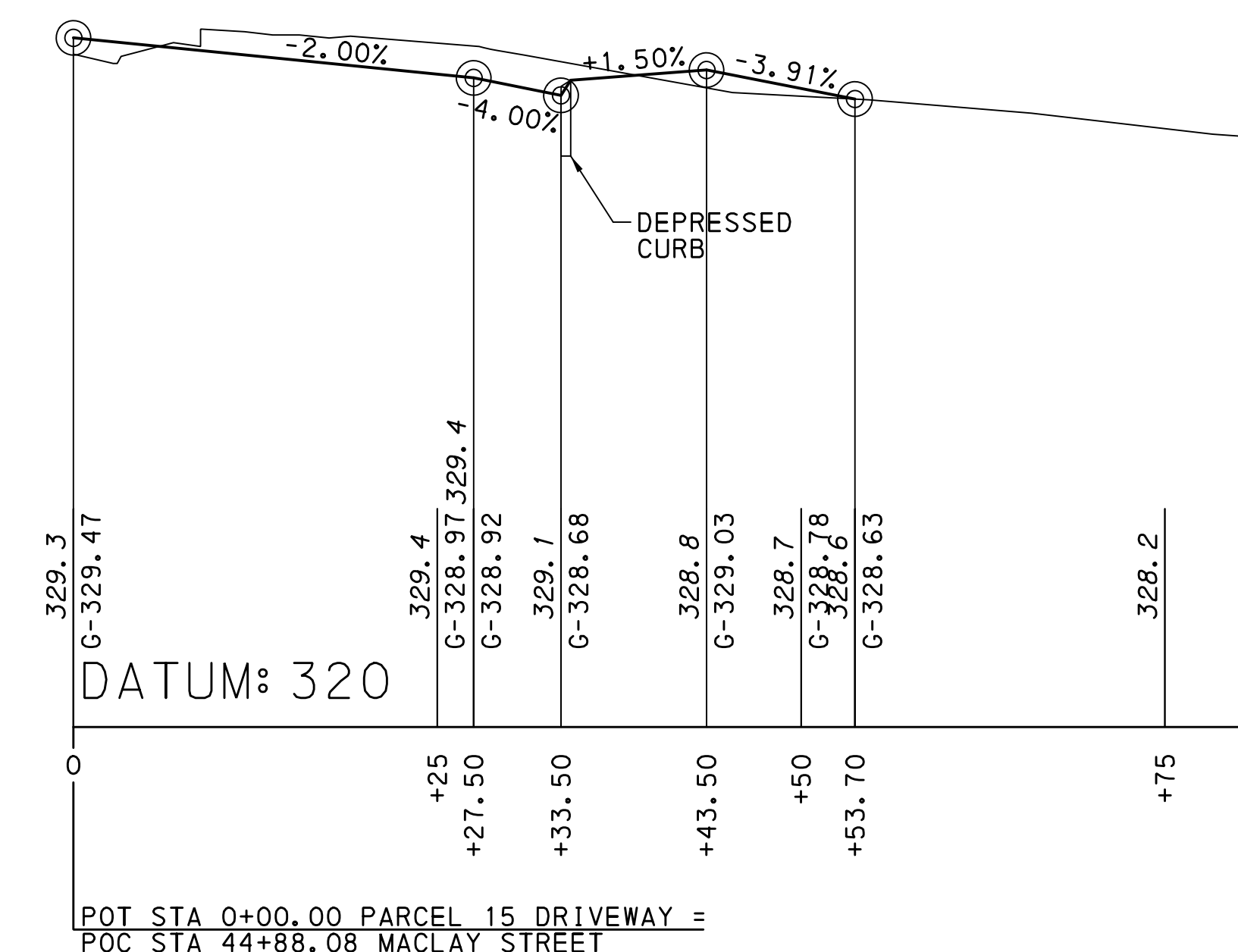
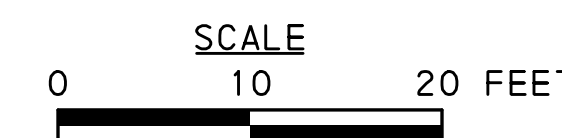
POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	44+73.91	42.17'	RT	329.87
A2	44+75.29	48.73'	RT	329.38
A3	44+75.31	53.73'	RT	329.02

POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	45+02.24	42.17'	RT	328.18
B2	45+00.87	48.73'	RT	328.20
B3	45+00.85	53.73'	RT	328.22

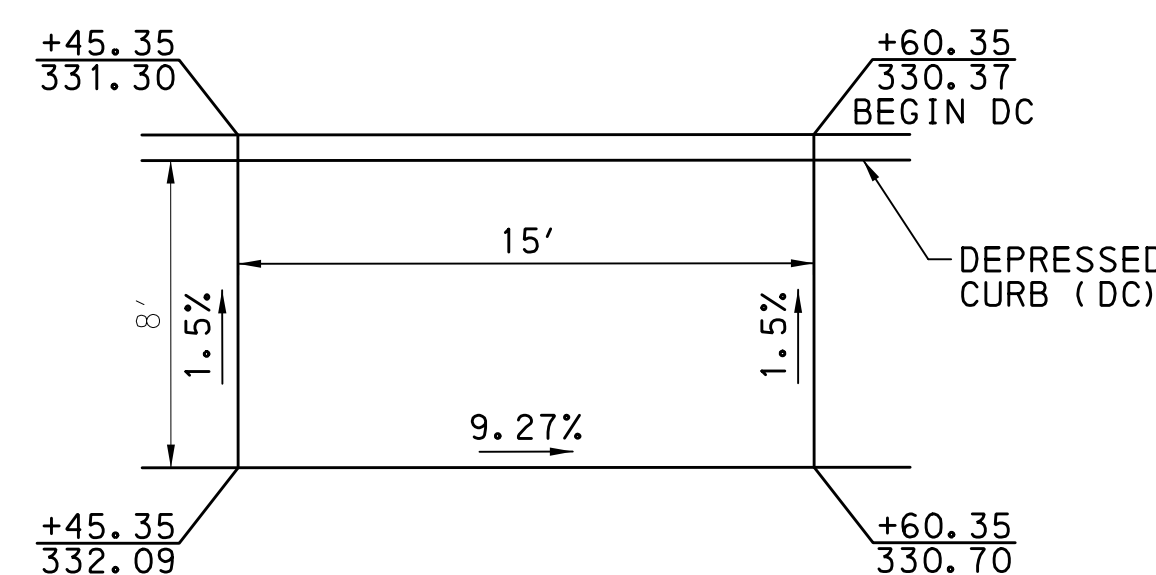


NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

PARCEL 15 DRIVEWAY GRADING DETAIL

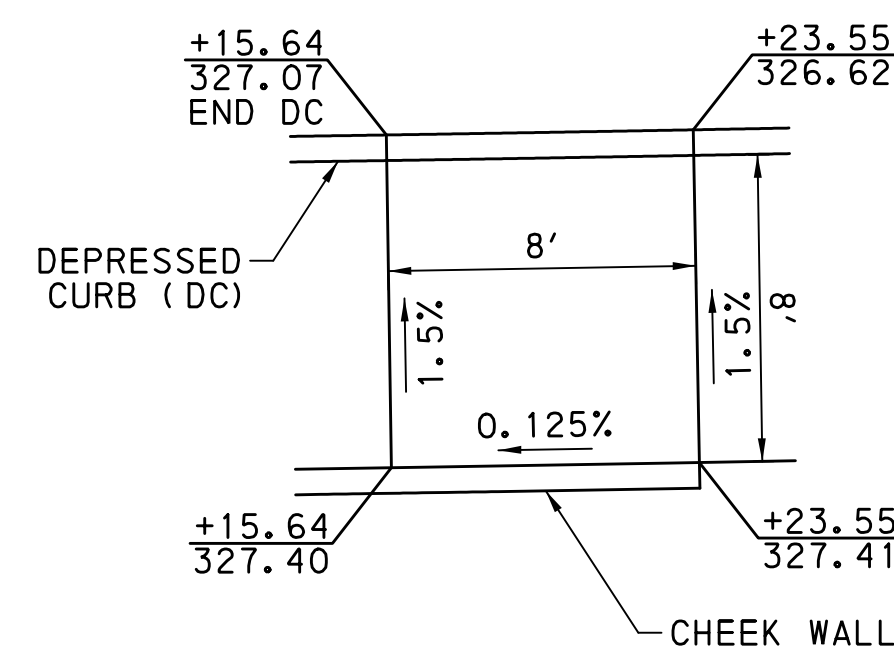
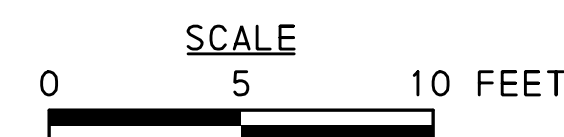


PROFILE



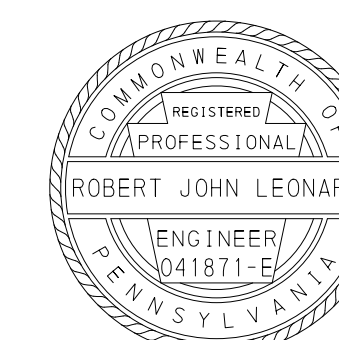
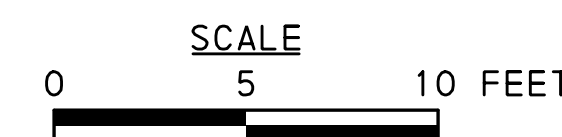
DETAIL A

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



DETAIL B

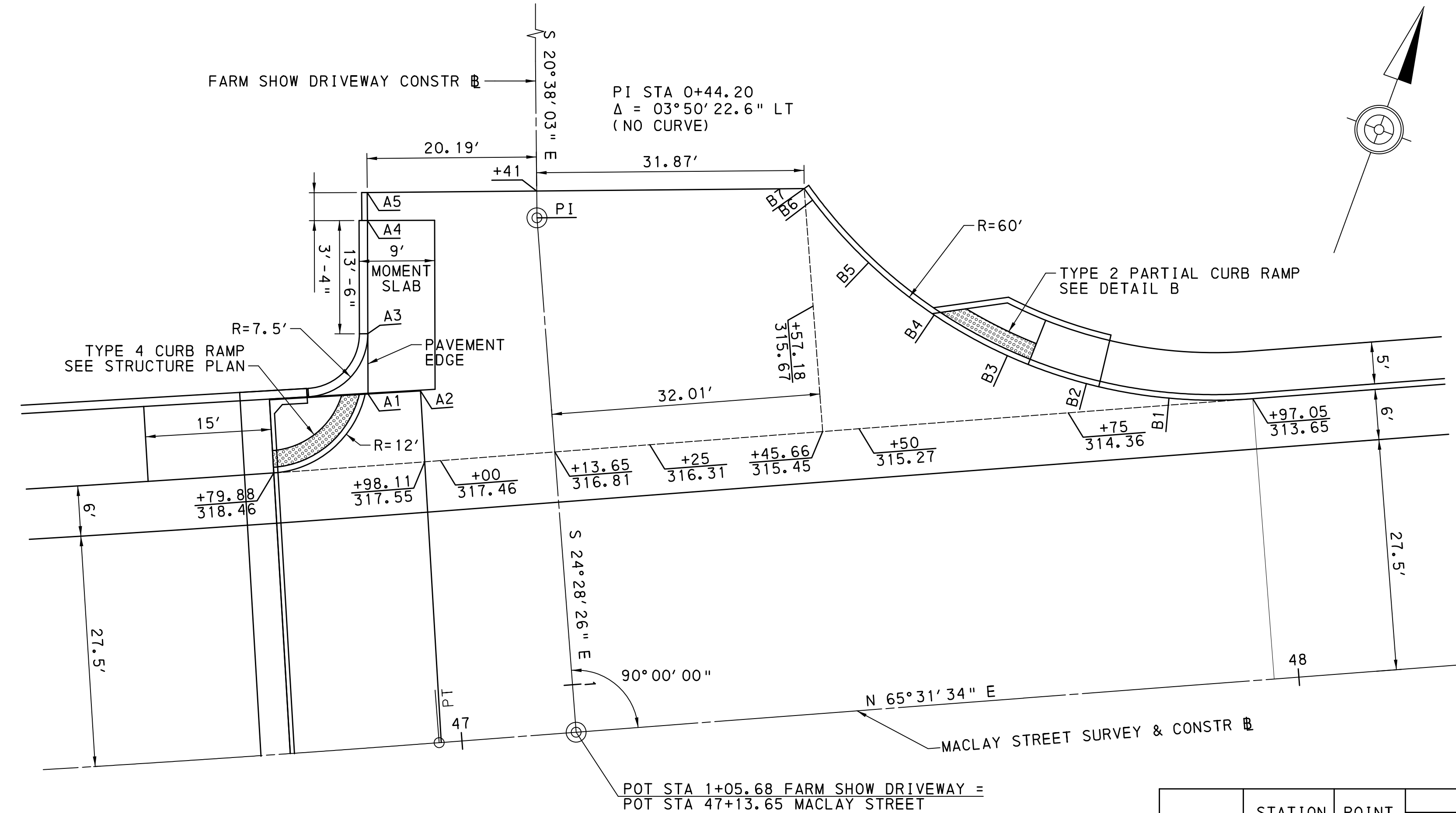
NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	17 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	46+91.91	42.07'	LT	317.98
A2	46+98.25	41.97'	LT	317.67
A3	46+92.43	49.23'	LT	317.78
A4	46+93.41	62.70'	LT	317.22
A5	46+93.64	66.02'	LT	317.08

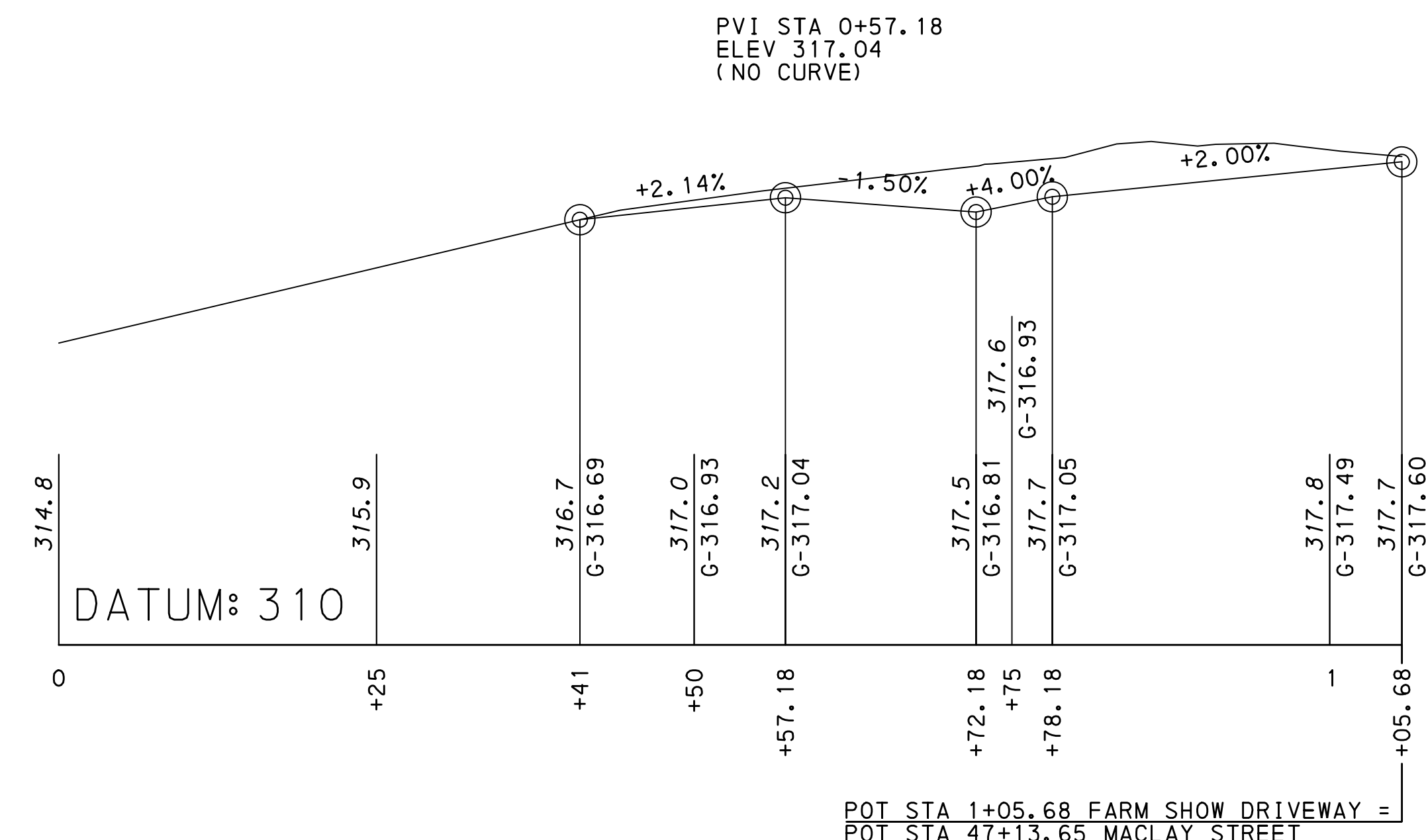
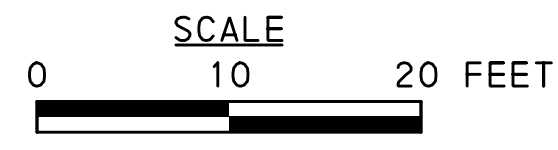
POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	47+87.10	34.33'	LT	313.92
B2	47+77.42	36.80'	LT	314.20
B3	47+68.29	40.85'	LT	314.42
B4	47+59.95	46.35'	LT	314.52
B5	47+52.64	53.16'	LT	314.89
B6	47+46.56	61.08'	LT	315.27
B7	47+45.66	62.53'	LT	315.34



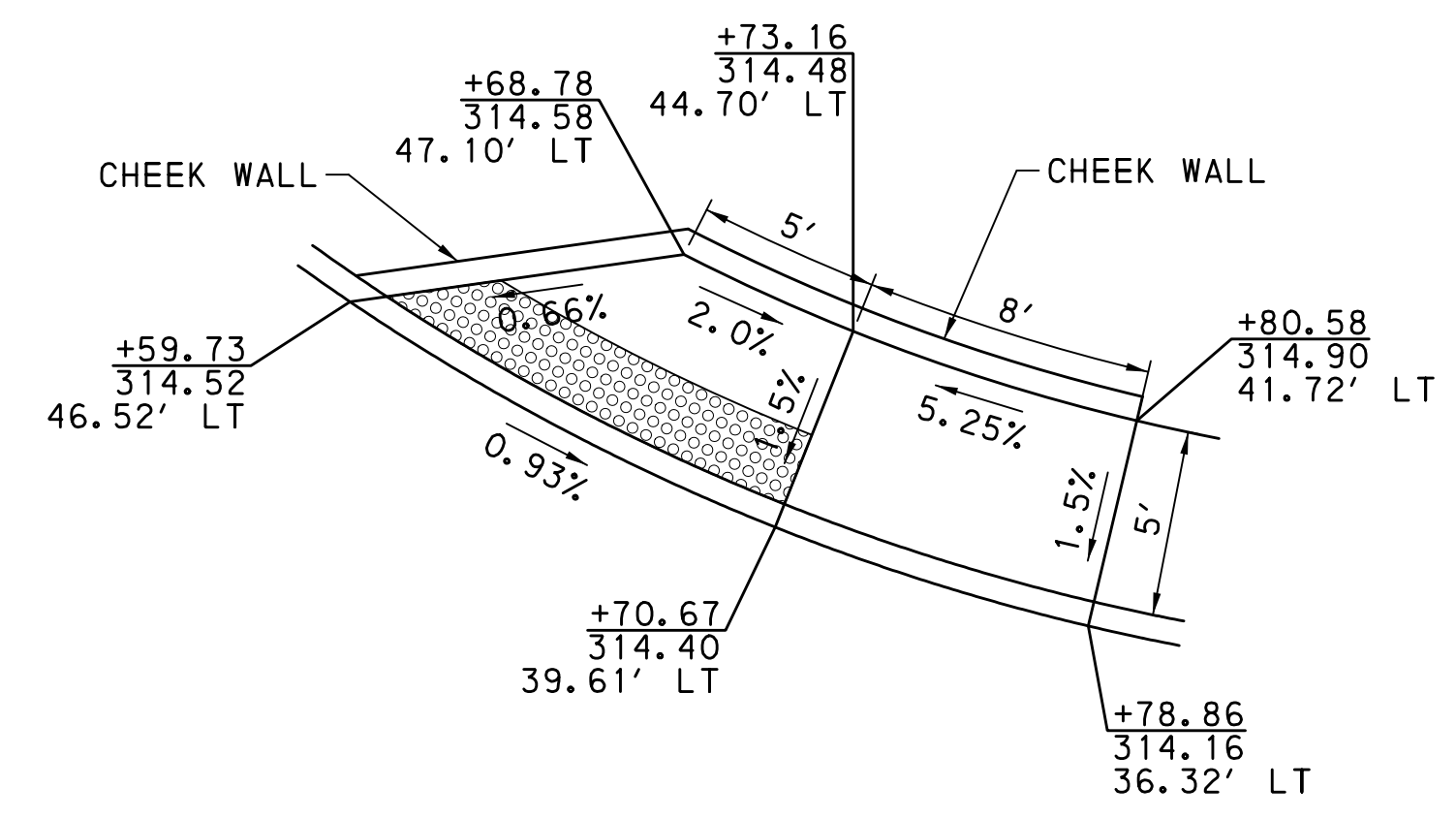
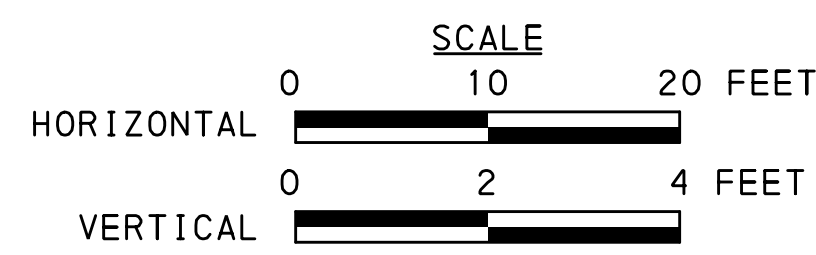
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

FARM SHOW DRIVEWAY GRADING DETAIL

FARM SHOW DRIVEWAY CONSTR	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
	0+00.00	POT	346963.8406	2210115.7644	S 20°38'03" E
	0+44.20	PI	346922.4761	2210131.3405	
	1+05.68	POT	346866.5208	2210156.8098	S 24°28'26" E

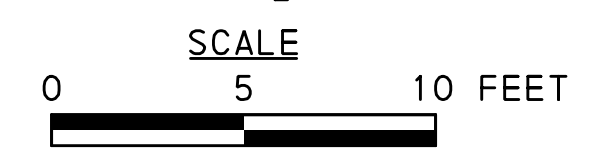


PROFILE

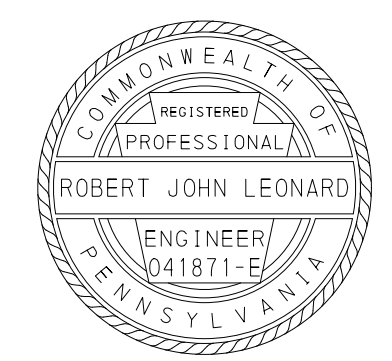


DETAIL B

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



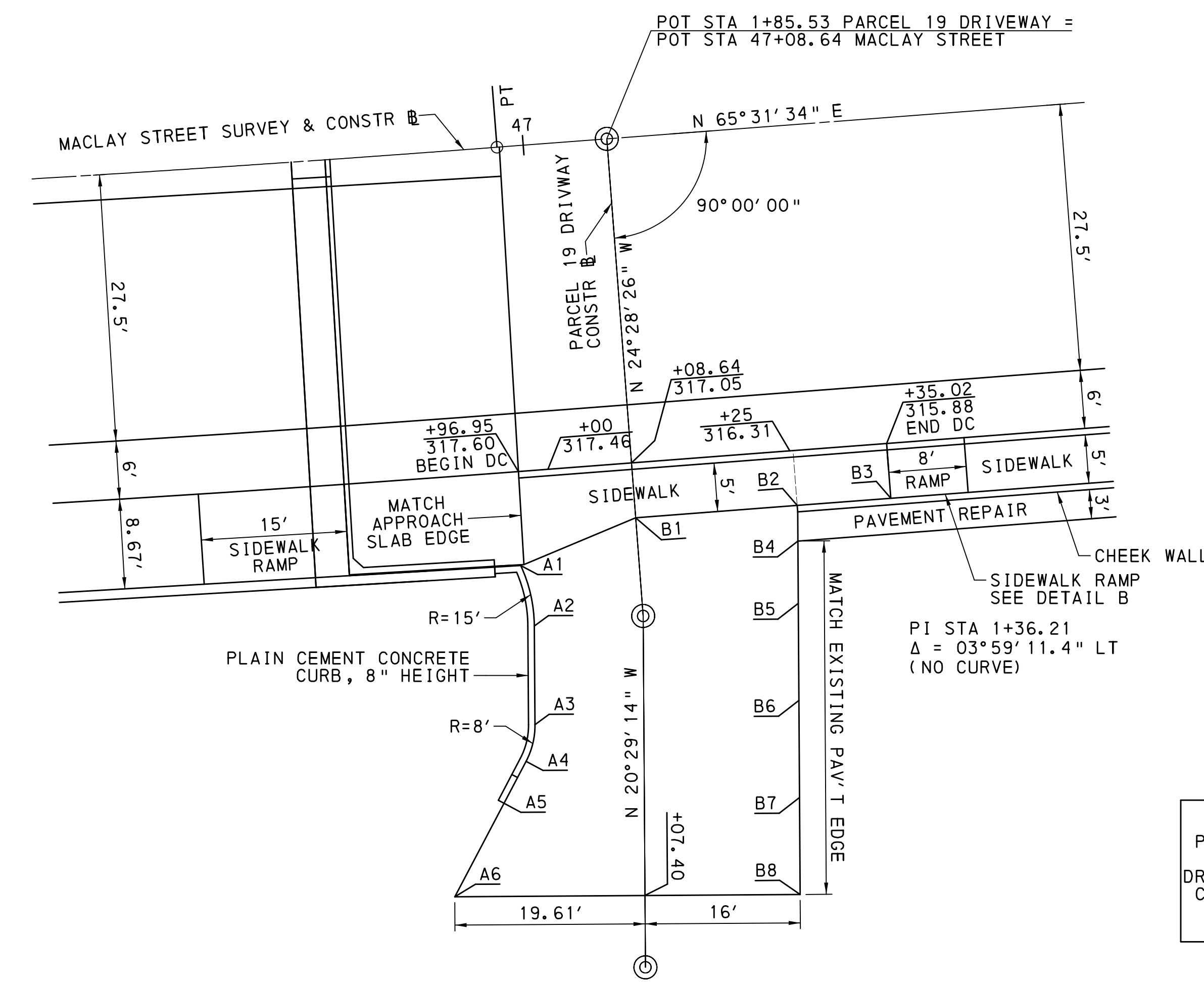
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	18 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

POINT NO.	PARCEL 19 DRIVEWAY STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	1+42.35	12.19'	LT	317.90
A2	1+35.24	11.22'	LT	317.19
A3	1+25.08	11.22'	LT	316.08
A4	1+21.30	12.17'	LT	315.68
A5	1+17.00	14.47'	LT	315.22
A6	1+07.40	19.61'	LT	314.50

POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	47+08.64	39.17'	RT	317.30
B2	47+25.34	39.17'	RT	316.57
B3	47+35.02	39.17'	RT	316.16
POINT NO.	PARCEL 19 DRIVEWAY STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B4	1+42.70	16.49'	RT	316.09
B5	1+36.28	16.04'	RT	315.62
B6	1+27.40	16.00'	RT	315.47
B7	1+17.40	16.00'	RT	315.32
B8	1+07.40	16.00'	RT	314.90



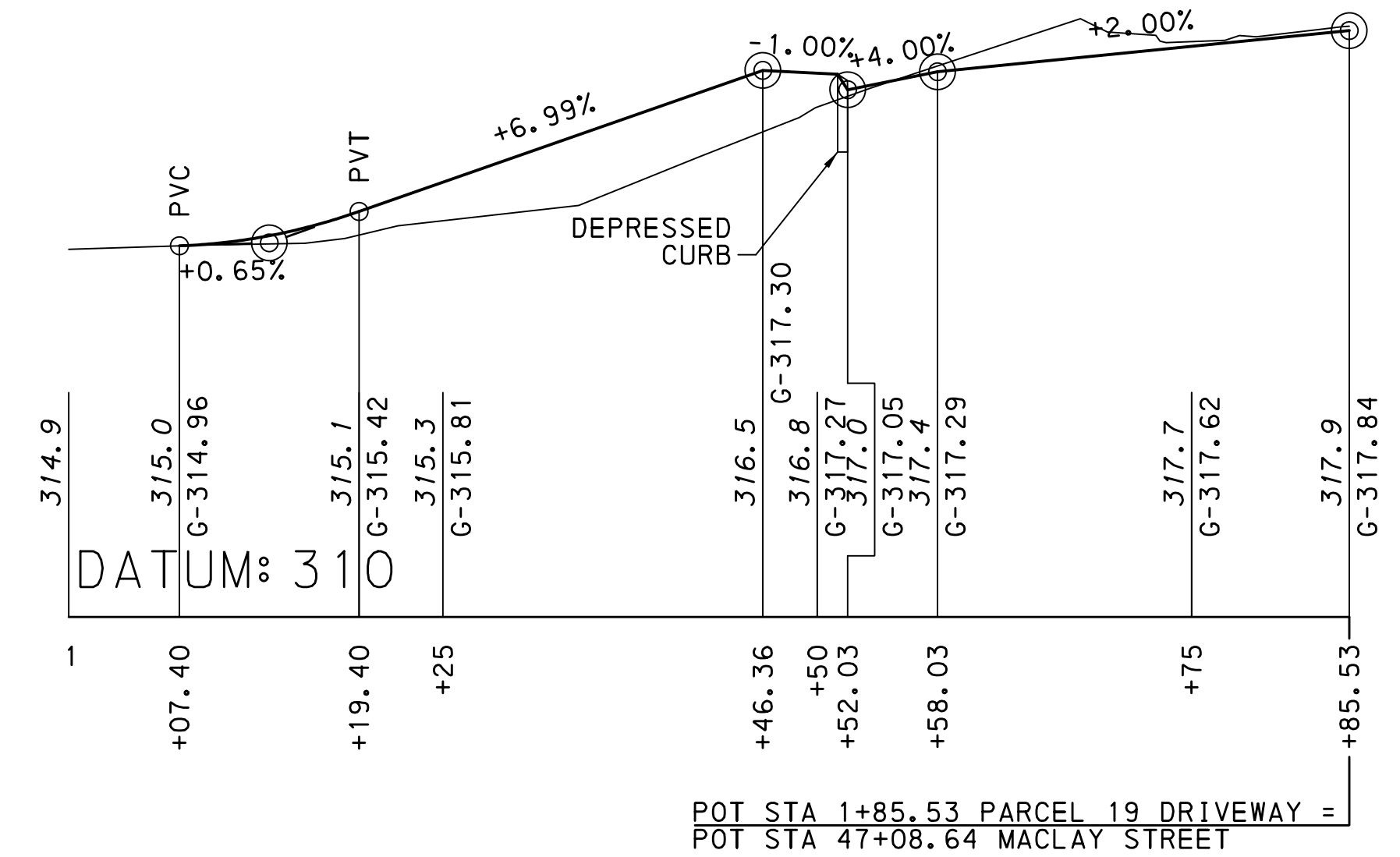
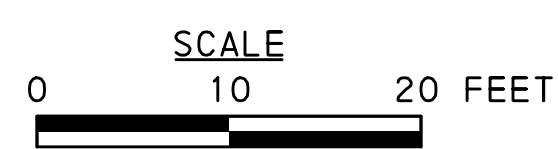
PARCEL 19 DRIVEWAY CONSTR	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
			1+00.00	POT	
1+36.21	PI	346819.5581	2210172.6858	N 24°28'26" W	
1+85.53	POT	346864.4469	2210152.2536		

PVI STA 0+46.36
ELEV 317.30
(NO CURVE)

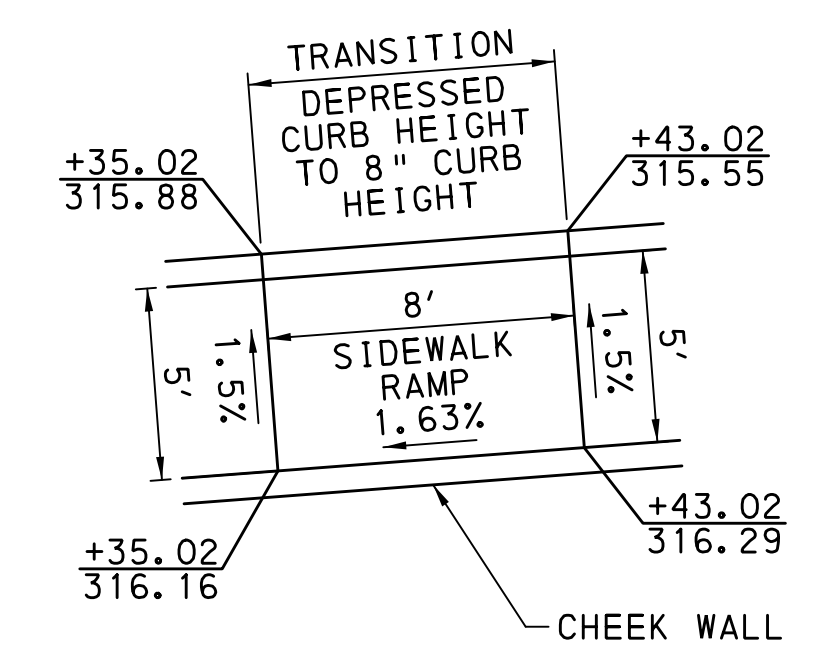
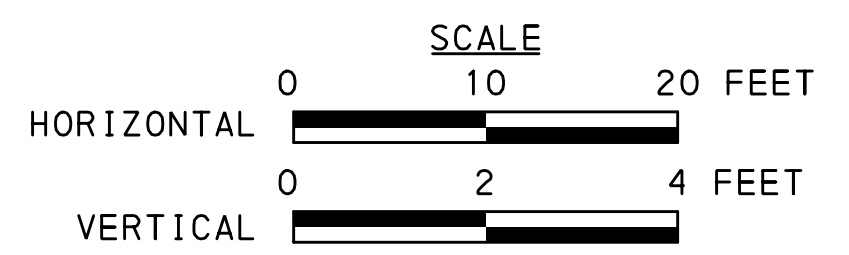
PVI STA 1+13.40
ELEV 315.00
VC 12.00'
MO 0.10'
HLS 52'

NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

PARCEL 19 DRIVEWAY GRADING DETAIL

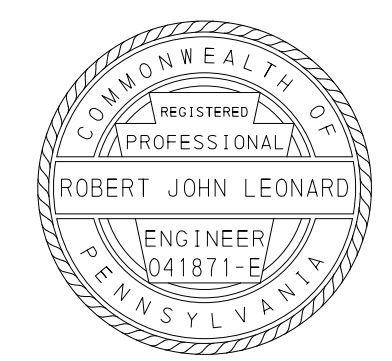
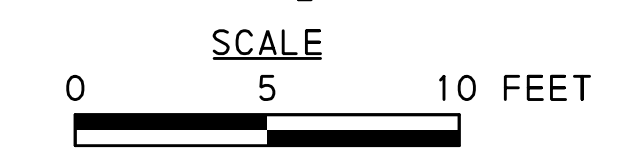


PROFILE



DETAIL B

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



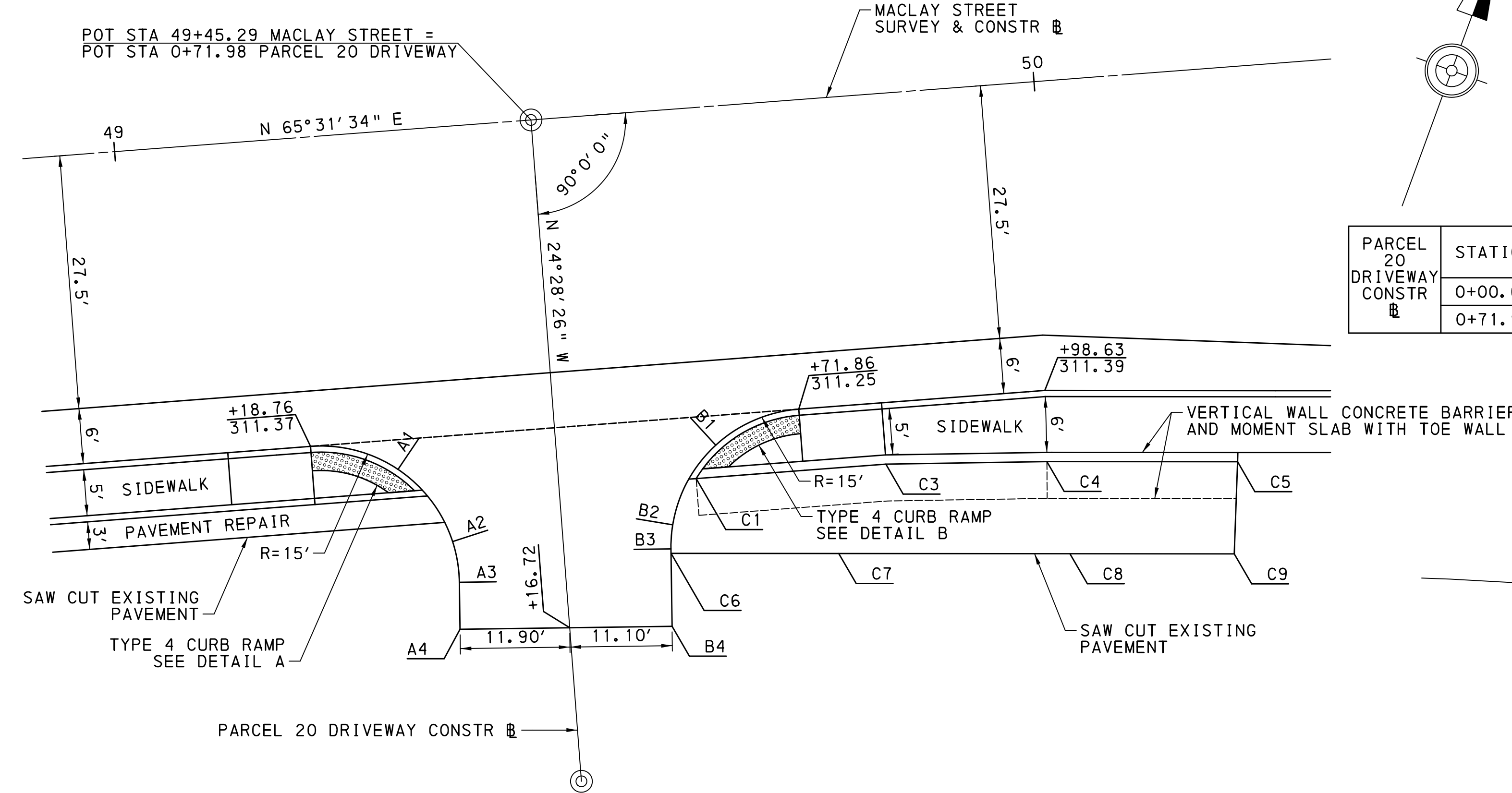
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	19 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

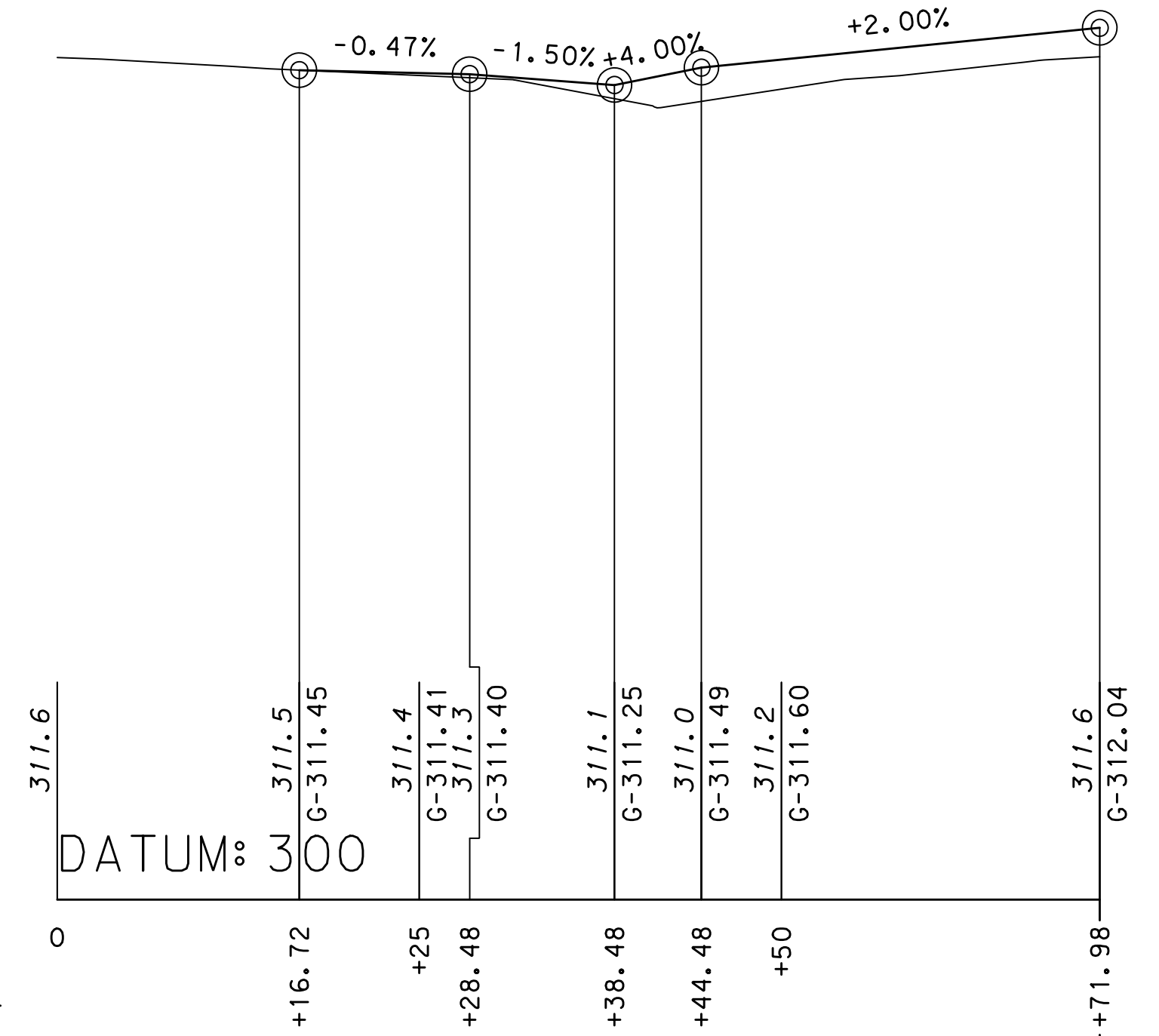
POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	49+28.03	36.71'	RT	311.57
A2	49+33.34	44.97'	RT	311.75
A3	49+33.73	49.43'	RT	311.72
A4	49+33.41	54.52'	RT	311.76

POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	49+62.58	36.71'	RT	311.42
B2	49+57.28	44.97'	RT	311.59
B3	49+56.89	47.57'	RT	311.63
B4	49+56.37	55.95'	RT	311.85

POINT NO.	MACLAY STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
C1	49+60.20	40.17'	RT	311.49
C3	49+80.83	40.17'	RT	312.61
C4	49+98.26	41.21'	RT	313.26
C5	50+18.88	42.81'	RT	313.76
C6	49+56.86	48.05'	RT	311.64
C7	49+75.00	49.45'	RT	312.57
C8	50+00.00	51.38'	RT	313.63
C9	50+17.77	52.75'	RT	314.32

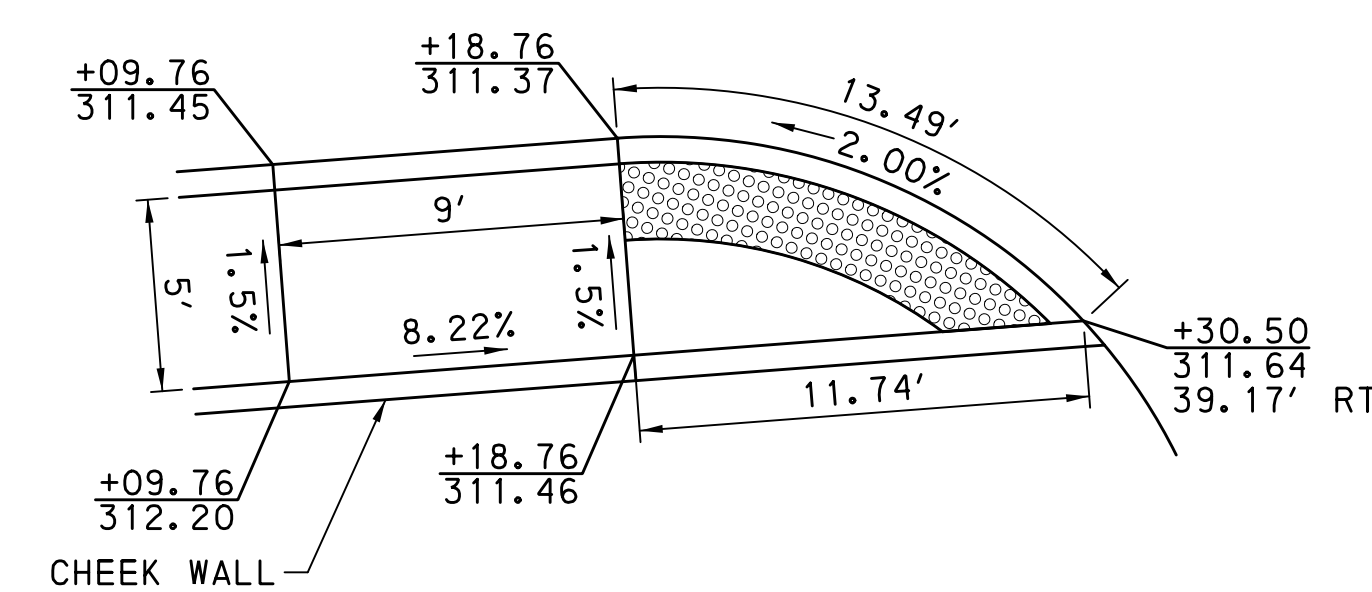
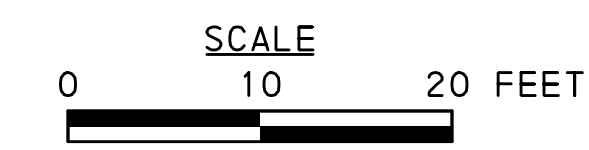


PARCEL 20 DRIVEWAY CONSTR	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
	0+00.00	POT	346896.9742	2210397.4553	N 24°28'26" W
	0+71.98	POT	346962.4837	2210367.6371	



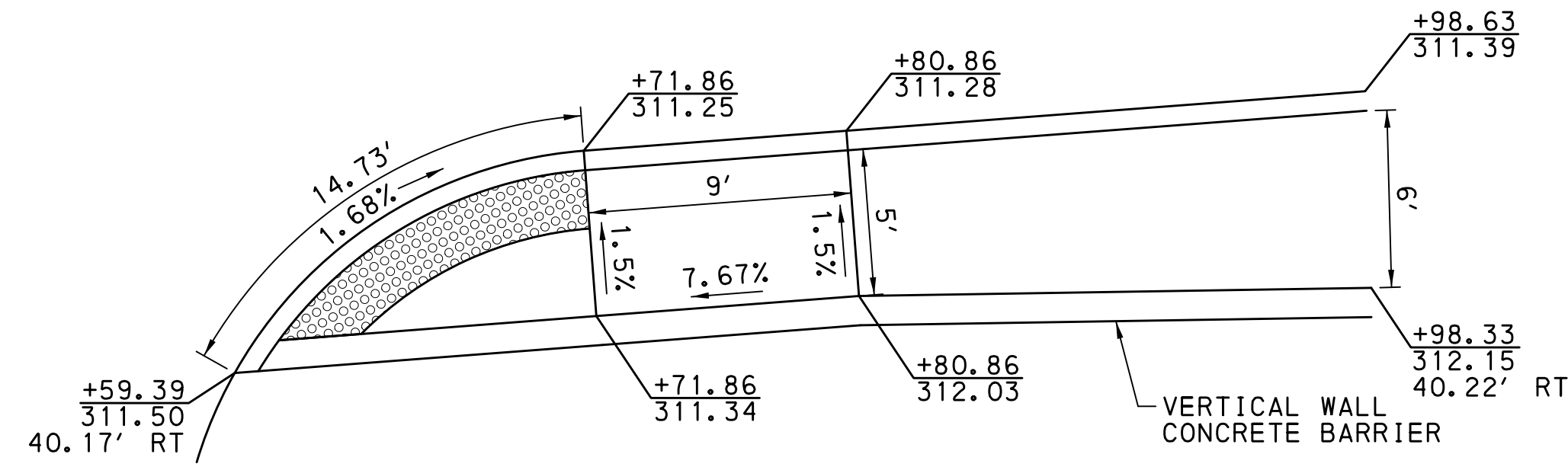
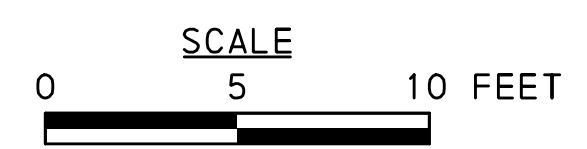
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

PARCEL 20 DRIVEWAY GRADING DETAIL



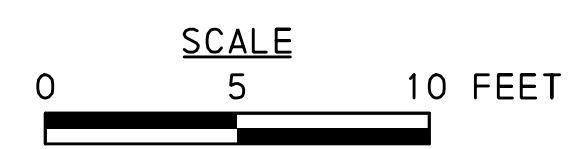
DETAIL A

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.

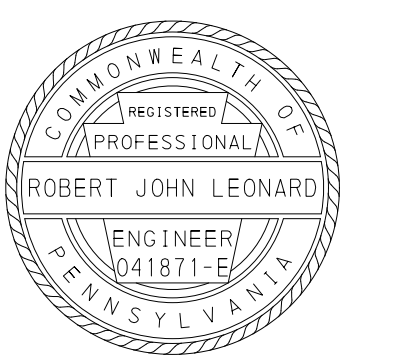
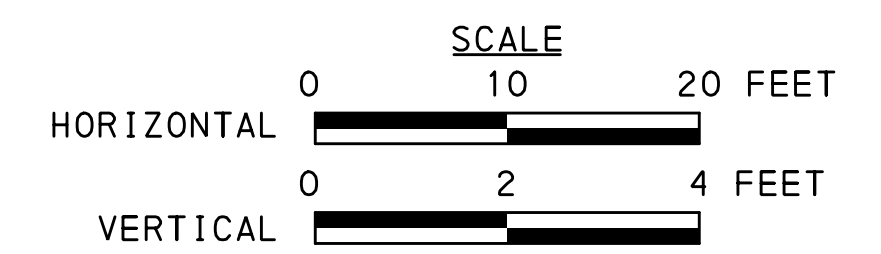


DETAIL B

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



PROFILE

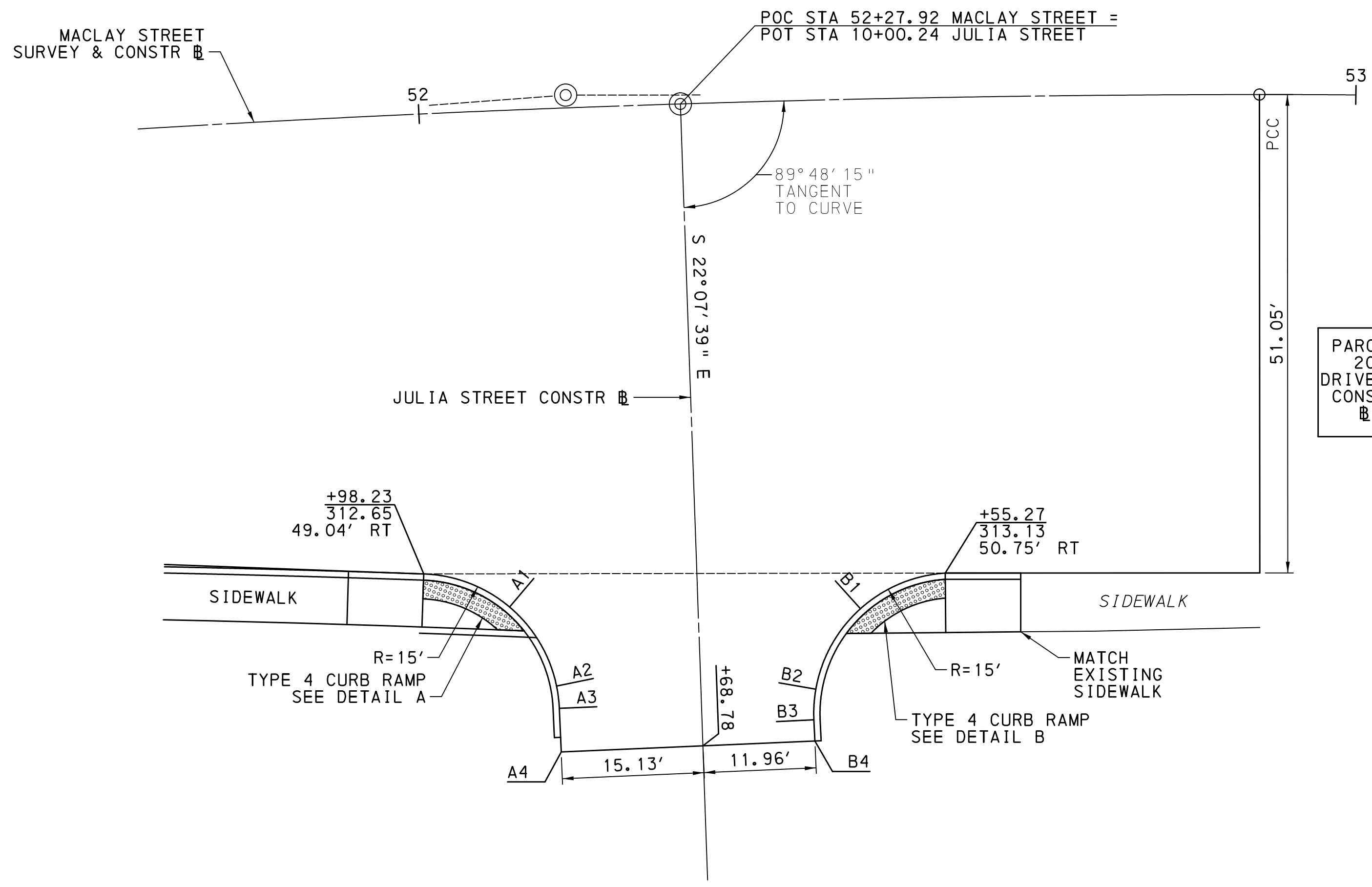


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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	20 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

POINT NO.	JULIA STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
A1	10+53.25	20.09'	RT	312.78
A2	10+61.86	15.38'	RT	313.07
A3	10+64.24	15.17'	RT	313.20
A4	10+68.90	15.13'	RT	313.34

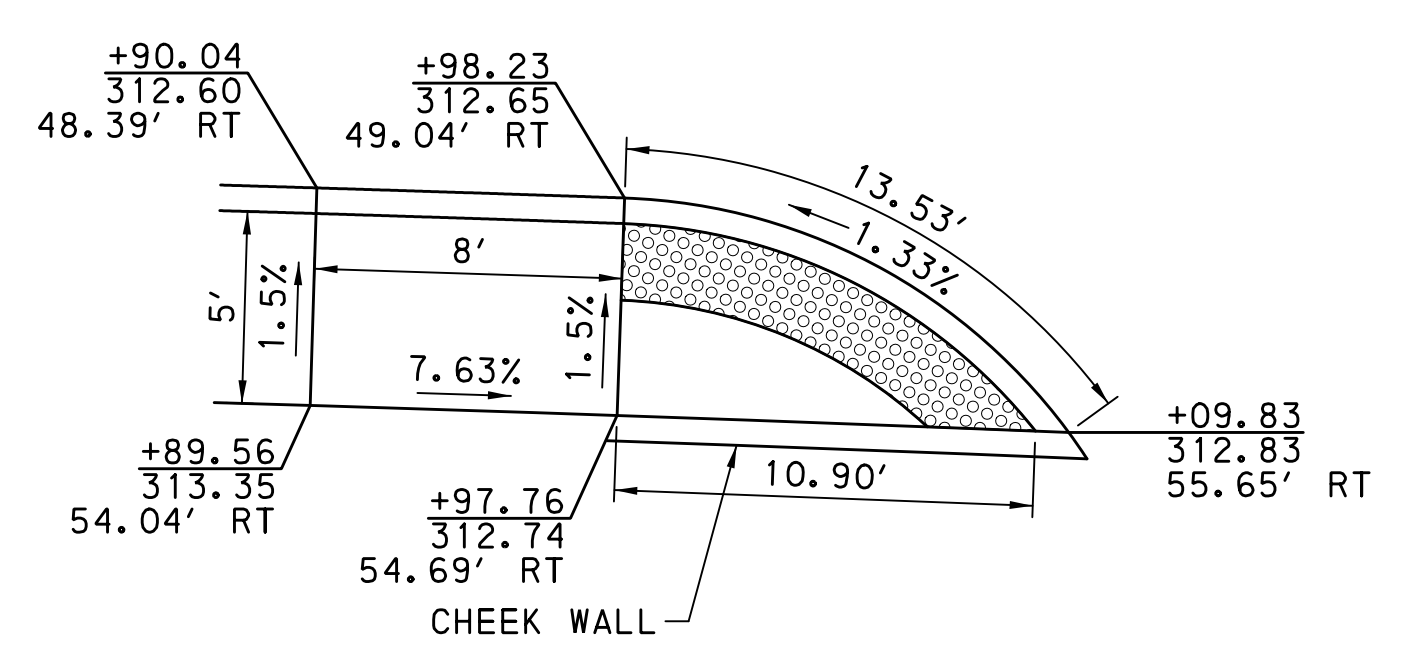
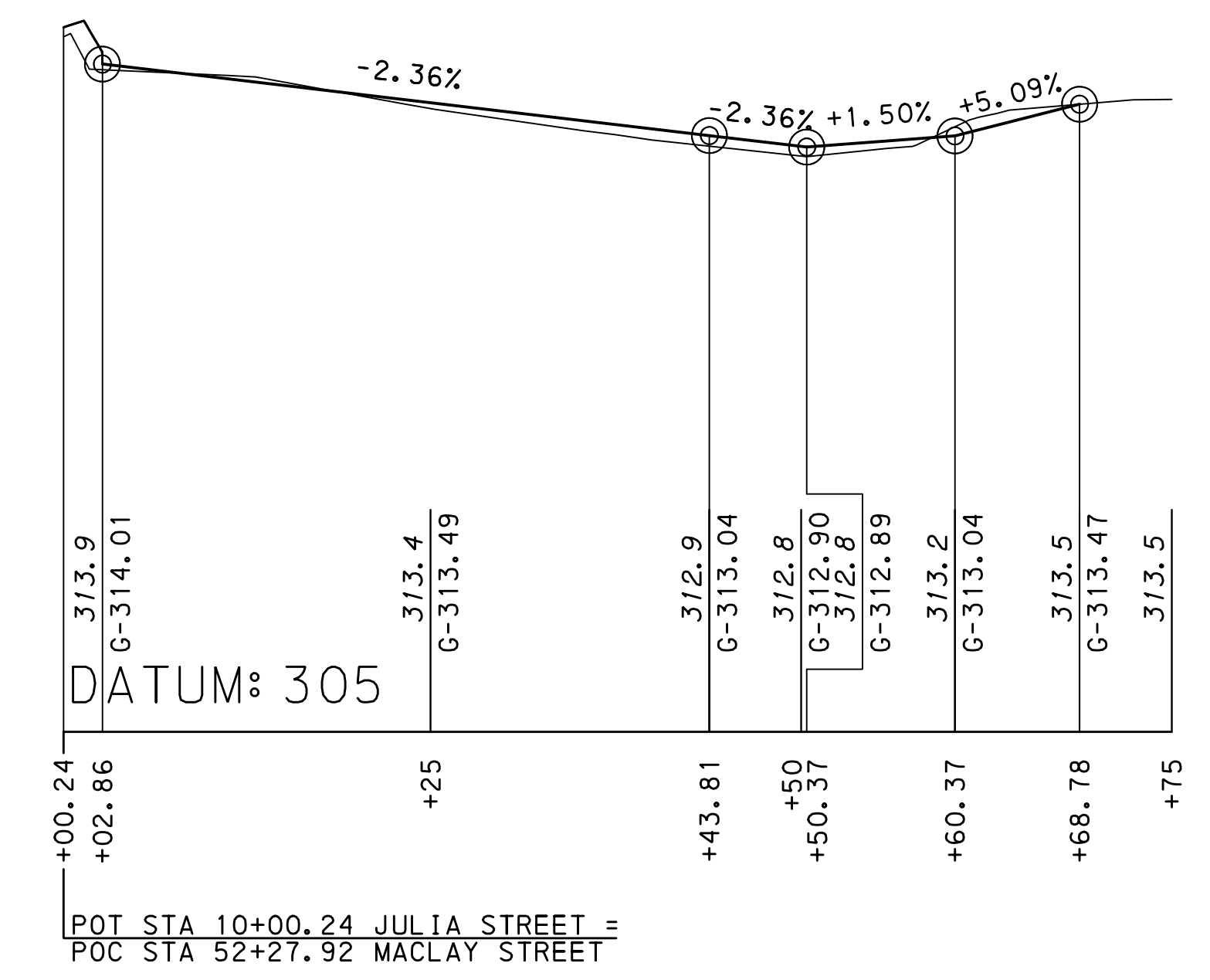
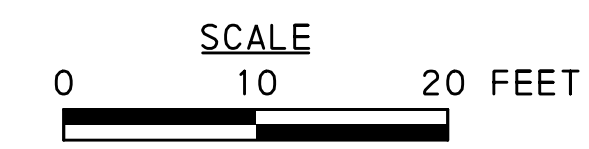
POINT NO.	JULIA STREET STATIONS			ELEVATION (FT)
	STATION	OFFSET	SIDE	
B1	10+54.75	17.31'	LT	313.29
B2	10+63.16	12.25'	LT	313.45
B3	10+66.42	11.93'	LT	313.50
B4	10+68.68	11.96'	LT	313.54



PARCEL NO.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
20	10+00.24	POT	347077.7681	2210625.6599	S 22°07'39" E
	10+83.10	POT	3470014.0115	2210656.8706	

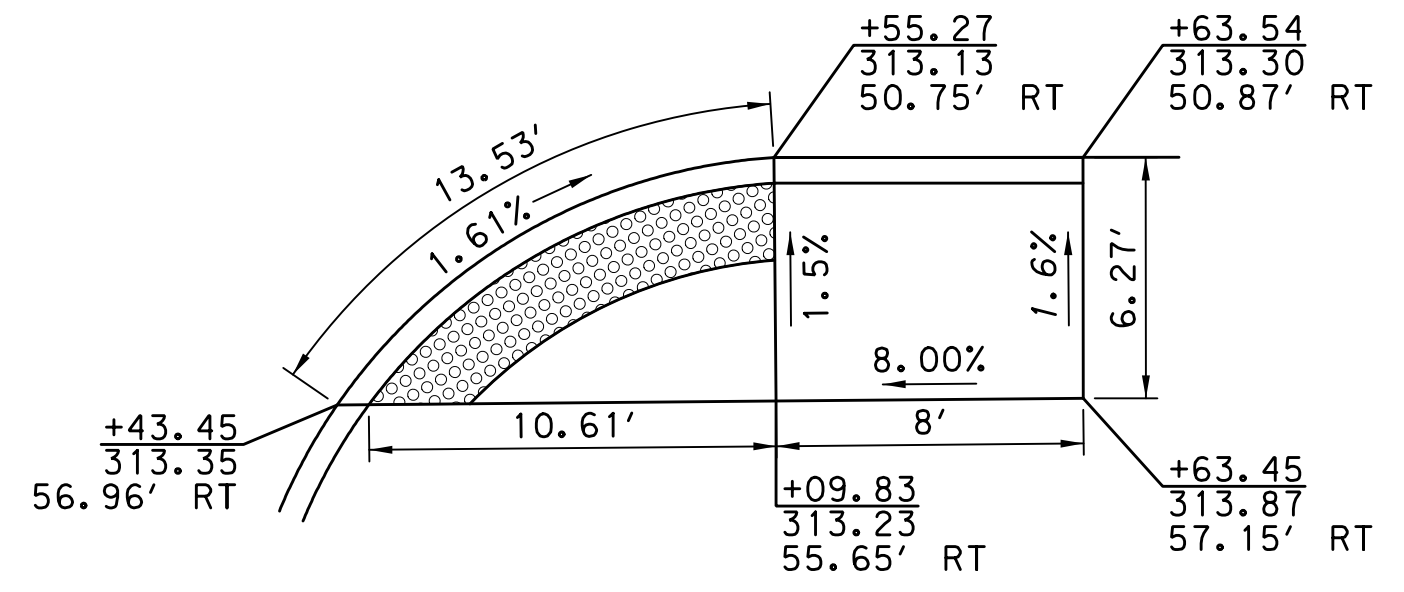
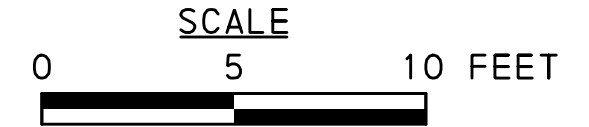
NOTE: ELEVATIONS INDICATED AT THE FACE OF CURB ARE BOTTOM OF CURB ELEVATIONS.

MACLAY STREET/JULIA STREET INTERSECTION GRADING DETAIL



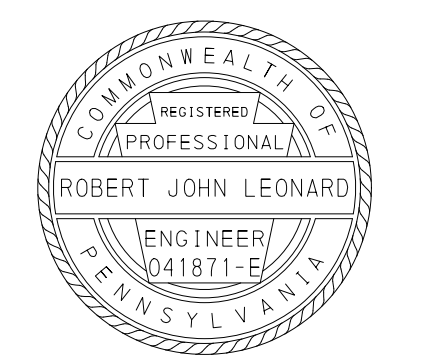
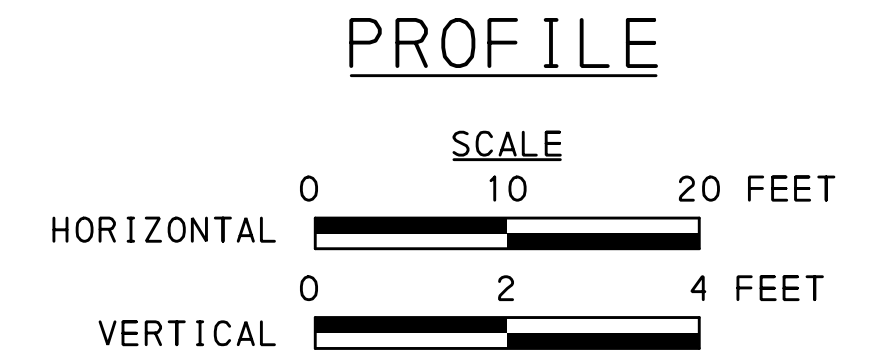
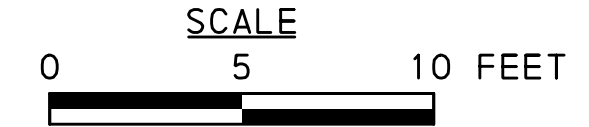
DETAIL A

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.



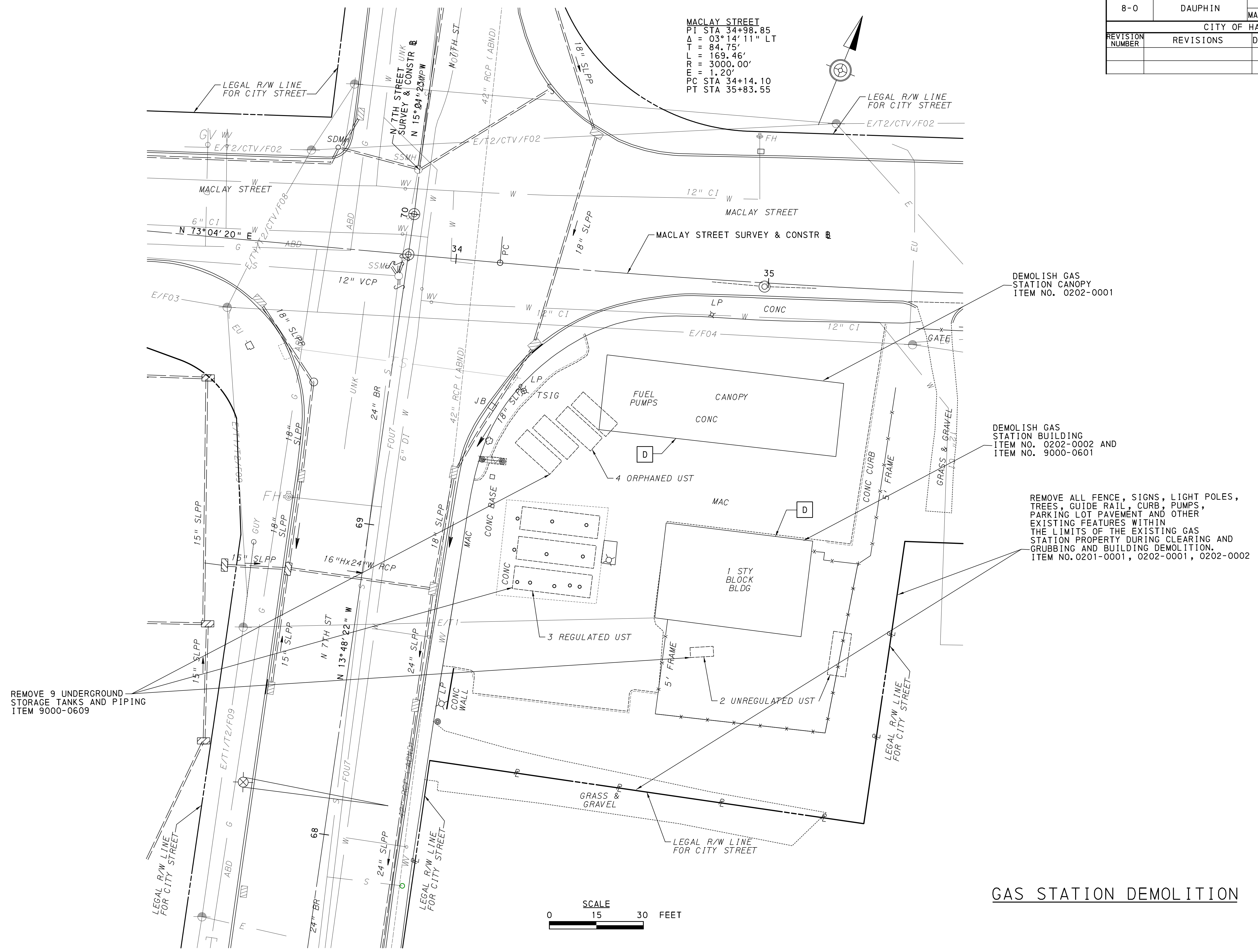
DETAIL B

NOTE: STATIONS INDICATED ARE MACLAY STREET STATIONS.

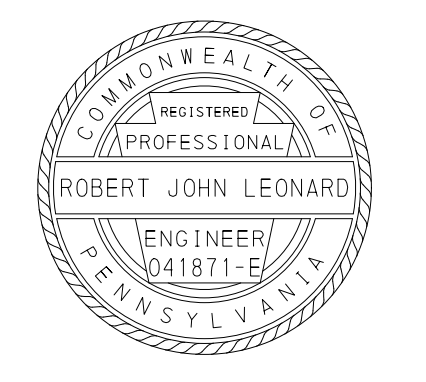


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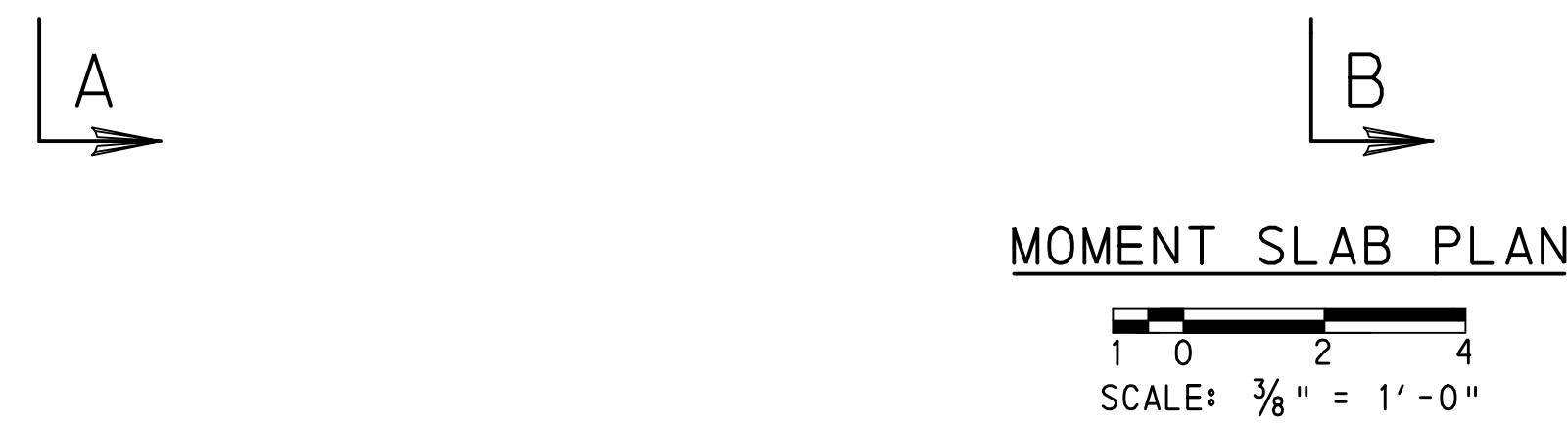
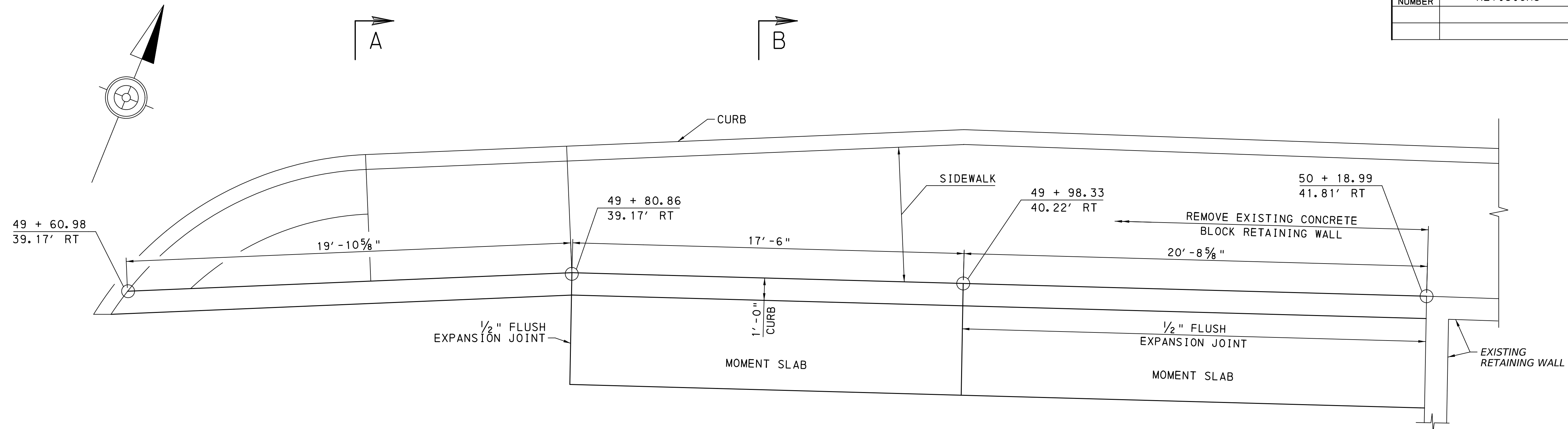
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	21 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



DATE: 5/6/2026 TIME: 03:25 PM
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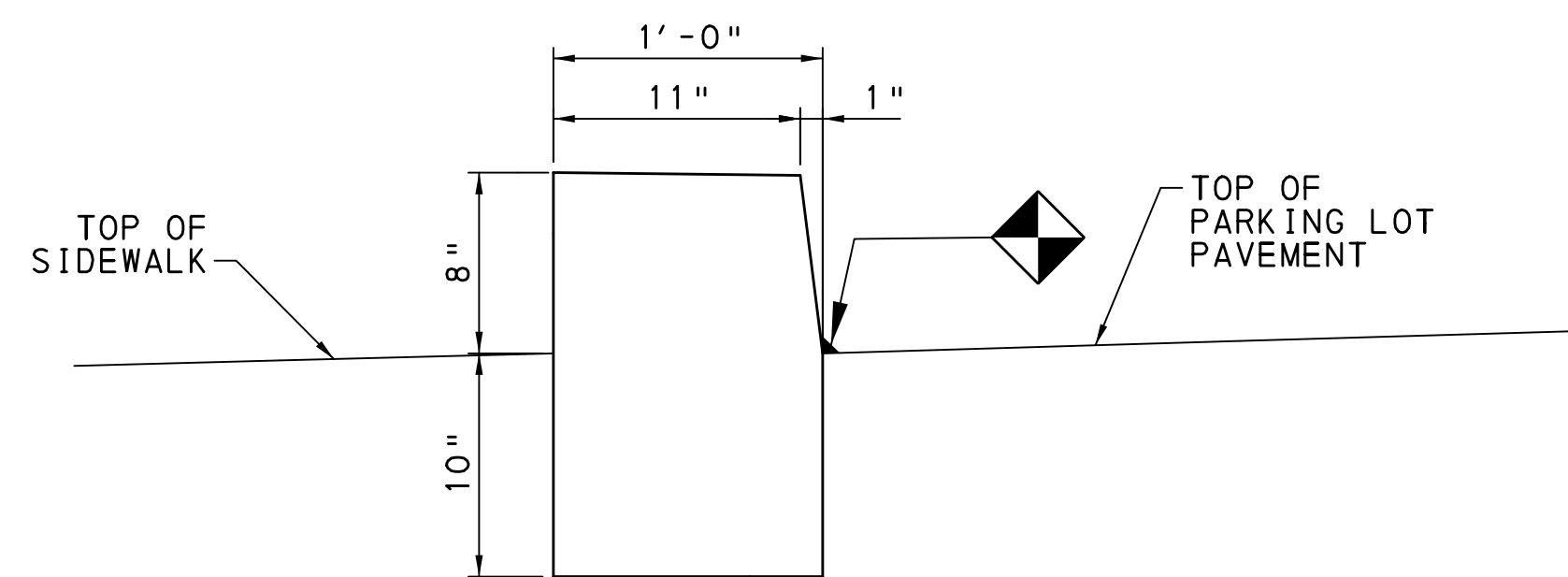


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	22 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

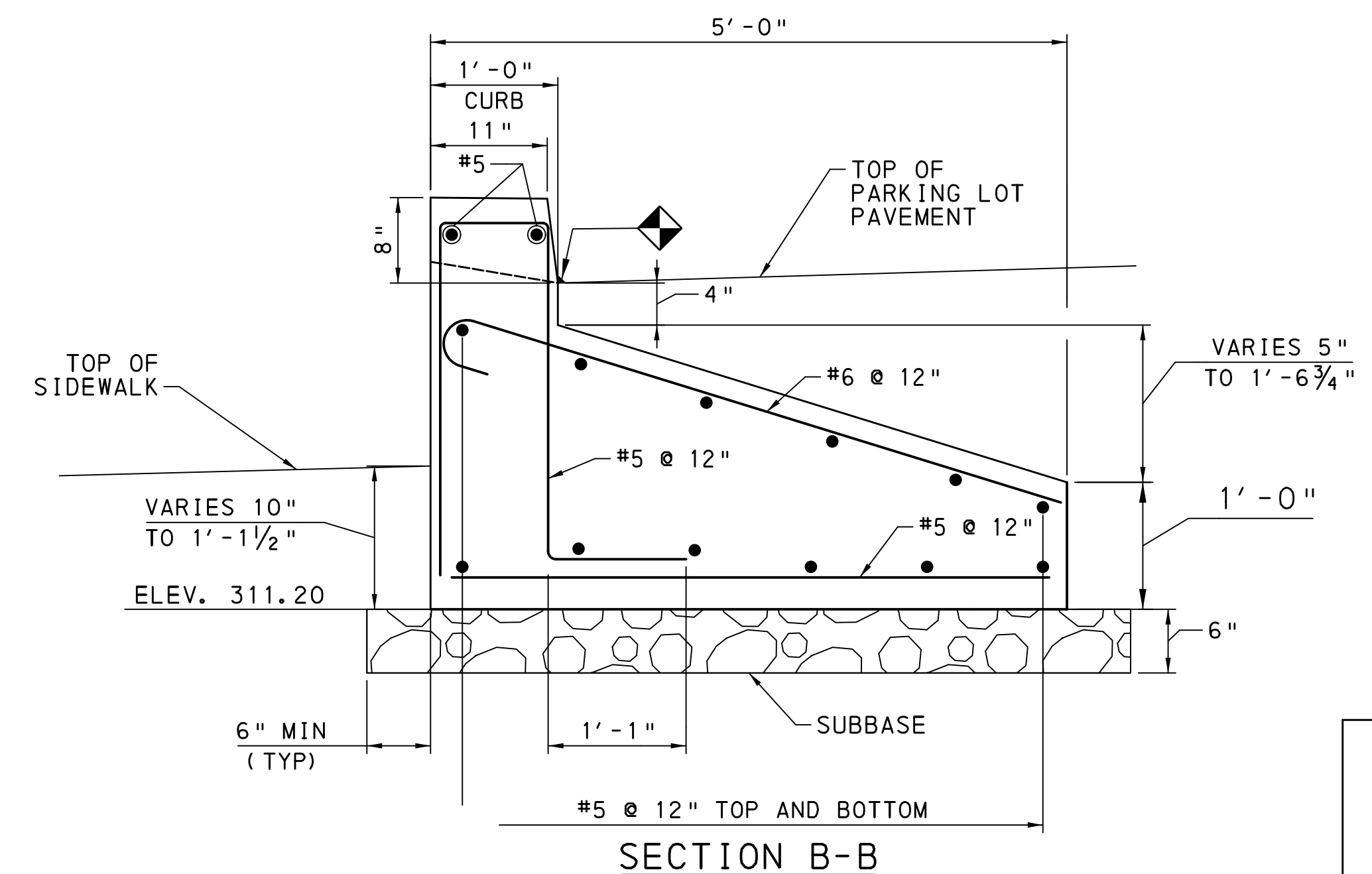


NOTES

1. USE CLASS AA CEMENT CONCRETE FOR CURB AND MOMENT SLAB.
2. USE EPOXY COATED REINFORCEMENT BARS.



A-A
SCALE: 1 1/2" = 1'-0"



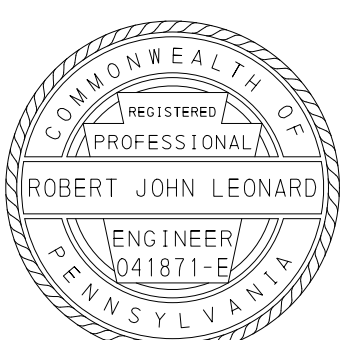
SECTION B-B
SCALE: 1" = 1'-0"

**PARCEL 20 RETAINING WALL
(ITEM 9000-0052)**

ITEM 9000-0052 APPROXIMATE QUANTITIES FOR INFORMATION ONLY		
DESCRIPTION	UNIT	TOTAL
CLASS 3 EXCAVATION	CY	50
SUBBASE 6" DEPTH (NO. 2A)	SY	26
CLASS AA CEMENT CONCRETE	CY	17
REINFORCEMENT BARS, EPOXY COATED	LB	1330

LEGEND

- ASPHALT RUBBER SEALING COMPOUND [PUB 408, SECTION 705.4 (g)]



MACLAY STREET

IN1
STA 31+08.00, 16.93' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 363.59
INV = 360.24 (EXIST 12" IN, FIELD VERIFY)
INV = 359.78 (18" OUT)

IN2
STA 31+24.07, 16.71' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 363.04
INV = 359.14 (18" OUT)

IN3
STA 31+52.95, 18.59' RT
1 EA TYPE M FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 362.03
INV = 359.71 (EXIST 12" IN, FIELD VERIFY)
INV = 358.36 (18" IN)
INV = 358.15 (18" OUT)

IN15
STA 31+75.00, 18.58' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 361.34
INV = 357.61 (18" IN)
INV = 357.44 (18" OUT)

IN4
STA 32+08.00, 27.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 360.03
INV = 356.34 (18" IN)
INV = 356.15 (18" OUT)

IN5
STA 32+99.00, 27.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 357.01
INV = 353.13 (18" IN)
INV = 352.96 (14"x23" OUT)

IN16
STA 32+99.00, 24.89' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 357.09
INV = 353.38 (18" IN)
INV = 353.21 (14"x23" OUT)

MH6
STA 33+24.60, 44.98' RT
1 EA MANHOLE FRAME AND COVER
1 EA INLET CAP (WITH ROUND OPENING)
RIM = 357.20
INV = 352.68 (EXIST 15" IN)
INV = 352.54 (EXIST 15" OUT)

IN23
STA 33+24.85, 53.82' RT
1 EA TYPE M FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 357.34
INV = 352.50 (EXIST 15" IN)
INV = 352.49 (EXIST 15" OUT)

IN7
STA 33+40.00, 43.64' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 355.12
INV = 351.72 (14"x23" IN)
INV = 351.55 (14"x23" OUT)

IN22
STA 33+53.00, 27.89' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 355.54
INV = 352.22 (14"x23" IN)
INV = 352.05 (14"x23" OUT)

IN12
STA 34+25.82, 42.68' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.69
INV = 350.96 (14"x23" IN)
INV = 350.79 (19"x30" OUT)

IN8
STA 34+60.00, 33.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 355.71
INV = 351.36 (18" IN)
INV = 351.36 (18" IN)
INV = 351.19 (18" OUT)

IN11
STA 34+61.00, 33.50' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 355.74
INV = 352.03 (18" IN)
INV = 351.86 (18" OUT)

PIPE OUTLET 0-1
STA 34+66.31, 57.00' RT
1 EA TYPE D-W ENDWALL
INV = 351.00 (18" OUT)

IN9
STA 35+60.00, 32.00' RT
1 EA TYPE M CONCRETE TOP UNIT AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 360.22
INV = 356.51 (18" OUT)

IN10
STA 35+66.00, 32.00' LT
1 EA TYPE M CONCRETE TOP UNIT AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 360.61
INV = 356.90 (18" OUT)

IN214
STA 41+45.00, 32.00' LT
1 EA TYPE M CONCRETE TOP UNIT AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 353.13
INV = 349.42 (18" OUT)

IN213
STA 41+50.00, 32.00' RT
1 EA TYPE M CONCRETE TOP UNIT AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 352.74
INV = 349.03 (18" IN)
INV = 348.86 (18" OUT)

IN217
STA 43+05.00, 33.50' RT
1 EA TYPE C FRAME AND BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 340.89
INV = 337.18 (18" IN)
INV = 337.01 (18" OUT)

IN212
STA 44+00.00, 33.50' LT
1 EA TYPE C FRAME AND BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 334.23
INV = 330.53 (18" OUT)

IN211
STA 44+57.00, 33.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 330.57
INV = 326.86 (18" IN)
INV = 326.69 (18" OUT)

IN209
STA 45+79.00, 33.50' RT
1 EA TYPE C FRAME AND BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 323.59
INV = 319.88 (18" IN)
INV = 319.39 (18" IN)
INV = 319.22 (18" OUT)

IN210
STA 45+79.00, 33.50' LT
1 EA TYPE C FRAME AND BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 324.58
INV = 319.88 (18" IN)
INV = 319.71 (18" OUT)

MH1
STA 45+80.00, 55.00' RT
1 EA MANHOLE FRAME AND COVER
1 EA TYPE 4 MANHOLE, STORM WATER,
HEIGHT >5' AND < /=10'
RIM = 319.44
INV = 315.32 (18" IN)
INV = 313.86 (18" OUT)

PIPE OUTLET 0-4
STA 46+74.24, 60.50' LT
1 EA TYPE D-W ENDWALL
INV = 306.08 (19"x30" OUT)

PIPE OUTLET 0-3
STA 46+76.29, 71.33' RT
1 EA TYPE D-W ENDWALL
INV = 306.16 (30" OUT)

IN204
STA 47+38.00, 33.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 5 INLET BOX, HEIGHT >10' AND < /=20'
TG = 315.76
INV = 306.58 (19" X 30" IN)
INV = 306.41 (30" OUT)

MH3
STA 47+75.00, 31.50' LT
1 EA MANHOLE FRAME AND COVER
1 EA TYPE 5 MANHOLE, STORM WATER,
HEIGHT >5' AND < /=10'
RIM = 314.44
INV = 306.76 (19"x30" IN)
INV = 306.59 (19"x30" OUT)

FS-IN1
STA 48+44.36, 46.00' LT
1 EA TYPE M FRAME AND GRATE
1 EA STANDARD INLET BOX,
HEIGHT < /=10'
TG = 312.44
INV = FIELD VERIFY (EXIST 8" OUT)

IN205
STA 48+61.46, 33.50' LT
1 EA TYPE C FRAME AND BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 312.11
INV = 307.22 (19"x30" IN)
INV = 307.05 (19"x30" OUT)

IN203
STA 49+15.00, 33.50' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 311.41
INV = 307.35 (19"x30" IN)
INV = 307.18 (19"x30" OUT)

IN206
STA 49+57.00, 33.50' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 311.24
INV = 307.71 (18" IN)
INV = 307.71 (19"x30" IN)
INV = 307.54 (19"x30" OUT)

FS-IN2
STA 49+57.00, 41.00' LT
1 EA TYPE M FRAME AND GRATE
1 EA STANDARD INLET BOX,
HEIGHT < /=10'
TG = 312.00
INV = 307.93 (18" OUT)

IN202
STA 49+60.00, 33.53' RT
1 EA TYPE M FRAME
AND ADA COMPLIANT GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 311.24
INV = 307.66 (19"x30" IN)
INV = 307.49 (19"x30" OUT)

IN207
STA 50+03.00, 33.50' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 5 INLET BOX,
HEIGHT < /=10'
TG = 311.43
INV = 308.05 (14"x23" IN)
INV = 307.86 (19"x30" OUT)

IN201
STA 50+05.56, 34.03' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 311.44
INV = 307.98 (14"x23" IN)
INV = 307.81 (19"x30" OUT)

MH2
STA 50+25.00, 6.00' LT
1 EA MANHOLE FRAME AND COVER
1 EA TYPE 4 MANHOLE, STORM WATER,
HEIGHT < /=5'
RIM = 312.30
INV = 308.90 (14"x23" IN)
INV = 308.73 (14"x23" OUT)

IN208
STA 50+92.00, 40.71' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 312.05
INV = 308.56 (14"x23" IN)
INV = 308.39 (14"x23" OUT)

IN219
STA 51+94.00, 48.71' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 312.62
INV = 309.22 (14"x23" IN)
INV = 309.05 (14"x23" OUT)

IN216
STA 52+57.90, 50.79' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 313.16
INV = 309.76 (14"x23" IN)
INV = 309.59 (14"x23" OUT)

IN218
STA 52+70.00, 50.95' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 313.27
INV = 309.87 (14"x23" OUT)

IN215
STA 52+73.70, 2.33' LT
1 EA TYPE M FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX,
HEIGHT < /=10'
TG = 314.37
INV = 311.28 (18" IN)
INV = 310.97 (14"x23" OUT)

HW1
STA 68+65.54, 53.22' RT
1 EA TYPE D ENDWALL
INV = 350.50 (18" OUT)

IN21
STA 68+82.00, 24.60' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.70
INV = 351.33 (EXIST 15" IN)
INV = 351.04 (EXIST 15" IN)
INV = 350.99 (14"x23" IN)
INV = 350.92 (EXIST 14"x23" OUT)

IN18
STA 68+82.48, 24.76' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.60
INV = 350.20 (18" IN)
INV = 350.06 (EXIST 14"x23" IN)
INV = 349.87 (19"x30" IN)
INV = 349.70 (EXIST 24" OUT)

IN17
STA 68+99.00, 24.64' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.76
INV = 351.33 (14"x23" IN)
INV = 351.16 (14"x23" OUT)

IN6
STA 69+26.00, 27.35' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.44
INV = 350.28 (19"x30" IN)
INV = 350.11 (19"x30" OUT)

IN14
STA 70+25.00, 22.18' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 355.40
INV = 351.97 (18" IN)
INV = 351.79 (14"x23" IN, CORNER OPENING)
INV = 351.62 (14"x23" OUT)

IN13
STA 70+38.23, 31.92' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 354.89
INV = 351.18 (18" IN)
INV = 351.18 (14"x23" IN)
INV = 351.01 (14"x23" OUT)

IN20
STA 70+75.00, 22.20' LT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA TYPE 4 INLET BOX, HEIGHT < /=10'
TG = 355.89
INV = 352.17 (18" OUT)

IN19
STA 71+05.84, 22.01' RT
1 EA TYPE C FRAME AND
BICYCLE SAFE GRATE
1 EA STANDARD INLET BOX, HEIGHT < /=10'
TG = 355.87
INV = 353.84 (EXIST 6" IN)
INV = 352.16 (18" OUT)

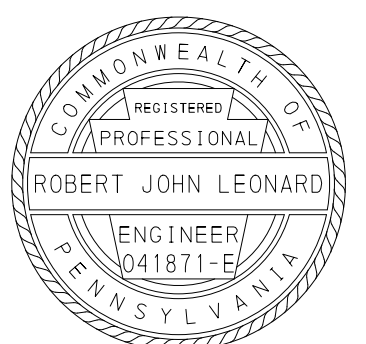
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	23 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

NOTE:
INSTALL ALL INLETS AND MANHOLES TO THE TOP OF THE BINDER COURSE. ADJUST USING GRADE ADJUSTMENT PAY ITEMS DURING THE PLACEMENT OF THE WEARING COURSE IN STAGE 3.

7TH STREET

DATE: 5/6/2026 TIME: 03:25 PM FILENAME: S:\Drawings\Cons\tr\P\lan\De\l\l\3022005-INLET_SCHEDULE-01.dgn

DRAINAGE STRUCTURE DATA



SPM = SIGNING AND PAVEMENT MARKING PLAN
 TCP = TRAFFIC CONTROL PLAN
 TSP = TRAFFIC SIGNAL PLAN

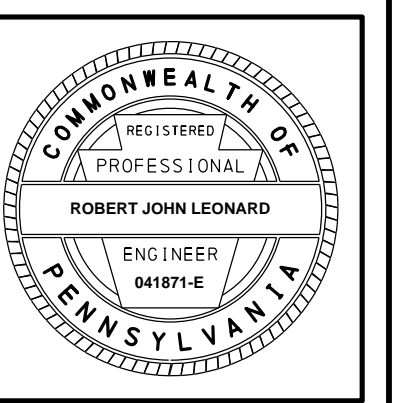
SUMMARY

S1 = STRUCTURE S-42172
 S2 = STRUCTURE S-42336
 HLP = HIGHWAY LIGHTING PLAN
 URP1 = UTILITY RELOCATION PLAN - SEWER
 URP2 = UTILITY RELOCATION PLAN - WATER

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	24 OF 54

◆ - SEE SPECIAL PROVISIONS

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET		
	UNIT					UNIT					UNIT					UNIT					
	0201 0001	CLEARING AND GRUBBING		NO TAB	1275	0413 0250 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 2" DEPTH, SRL-H		TCP												
	0202 0001	DEMOLITION		28	13534	0413 6045 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH		29	EITHER	1188	0604 4014 LF	18" PERFORATED REINFORCED CONCRETE PIPE, TYPE A, 15' - 2' FILL, 100 YEAR DESIGN LIFE	604	30-32		0609 0002 LS	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE A		NO TAB	
	0202 0002	DEMOLITION		28	28136	0460 0001 SY	ASPHALT TACK COAT		TCP	29	OR	1188	0604 7014 LF	18" REINFORCED CONCRETE PIPE, TYPE A, (OPEN JOINT), 15' - 2' FILL, 100 YEAR DESIGN LIFE	604	30-32		0609 0009 LS	EQUIPMENT PACKAGE		NO TAB
	0202 0003	DEMOLITION		28	39	0461 0001 SY	ASPHALT PRIME COAT		37							1205	0610 7002 LF	6" PAVEMENT BASE DRAIN		36	
7671	0203 0001	CLASS 1 EXCAVATION		TCP	28, 29, 38-41, 42	100	0491 0019 SY	MILLING OF ASPHALT PAVEMENT SURFACE, VARIABLE DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		TCP	2	0605 1300 EACH	CLEANING DRAINAGE STRUCTURES		33-35	1	0618 0022 EACH	CONCRETE COLLAR FOR 18" PIPE EXTENSION		30-32	
100	0203 0005	CLASS 1C EXCAVATION		28							4	0605 2401 SET	MANHOLE FRAME AND COVER		33-35	1	0619 0459 EACH	PERMANENT IMPACT ATTENUATING DEVICE, TYPE II, TEST LEVEL 3, TANGENT (MASH)		37	
1145	0203 0006	SAW CUTTING		TCP	29	154	0501 0020 SY	PLAIN CEMENT CONCRETE PAVEMENT, 4" DEPTH		37	1	0605 2600 EACH	TYPE D ENDWALL		33-35	13	0620 1600 LF	TYPE 31-S GUIDE RAIL		37	
1660	0204 0001	CLASS 2 EXCAVATION		30-32, 42							3	0605 2620 EACH	TYPE D-W ENDWALL		33-35	1	0620 2010 EACH	THREE-BEAM GUIDE RAIL TO CONCRETE BRIDGE BARRIER TRANSITION WITHOUT CURB		37	
1000	0205 0100	FOREIGN BORROW EXCAVATION		28	EITHER	150	0601 0353 LF	18" THERMOPLASTIC PIPE, GROUP III, 8'-2' FILL	600	30-32	4	0605 2731 SET	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		33-35	2224	0627 3019 LF	TEMPORARY BARRIER, TEST LEVEL 3, BARRIER DEFLECTION DISTANCE < />=1'		TCP	
100	0205 0281	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1		28	OR	150	0601 1663 LF	18" SPIRAL RIB ALUMINIZED STEEL PIPE, TYPE IR, (3/4" X 3/4" X 7 1/2" CORRUGATIONS), 16 GAGE	600	30-32	34	0605 2771 SET	TYPE C FRAME AND BICYCLE SAFE GRATE		33-35	952	0628 3019 LF	RESET TEMPORARY BARRIER, TEST LEVEL 3, BARRIER DEFLECTION DISTANCE < />=1'		TCP	
10	0208 0001	SPECIAL ROLLING		28	OR	150	0601 7313 LF	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL	600	30-32	2	0605 2780 SET	TYPE M FRAME AND GRATE		33-35	3850	0630 0041 LF	PLAIN CEMENT CONCRETE CURB, 8" HEIGHT		37	
1205	0212 0001	GEOTEXTILE, CLASS 1		36	EITHER	40	0601 0393 LF	18" CORRUGATED POLYETHYLENE (PE) CULVERT PIPE, GROUP V, 7'-2.5' FILL	601	30-32	3	0605 2781 SET	TYPE M FRAME AND BICYCLE SAFE GRATE		33-35	1115	0633 0225 LF	PLAIN CONCRETE MOUNTABLE CURB, TYPE B		37	
14329	0212 0014	GEOTEXTILE, CLASS 4, TYPE A		29, 38-41	OR	40	0601 2823 LF	18" CORRUGATED ALUMINUM ALLOY PIPE, TYPE I, (2 2/3" X 1/2" CORRUGATIONS), 16 GAGE	601	30-32	1	0605 2784 SET	TYPE M FRAME AND ADA COMPLIANT GRATE		33-35	580	0643 0001 LF	TEMPORARY CONCRETE BARRIER, STRUCTURE MOUNTED		TCP	
100	0212 0016	GEOTEXTILE, CLASS 4, TYPE C		28	OR	40	0601 9363 LF	18" CORRUGATED ALUMINIZED STEEL PIPE, TYPE I, (2 2/3" X 1/2" CORRUGATIONS), 16 GAGE	601	30-32	19	0605 2850 EACH	STANDARD INLET BOX, HEIGHT < />= 10'		33-35	505	0644 0001 LF	TEMPORARY CONCRETE BARRIER, STRUCTURE MOUNTED, RESET		TCP	
43	0220 0020	FLOWABLE BACKFILL, TYPE C		30-32, URP2	EITHER	197	0601 0550 LF	18" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, 100 YEAR DESIGN LIFE	602	30-32	23	0605 2854 EACH	TYPE 4 INLET BOX, HEIGHT < />= 10'		33-35	2135	0676 0002 SY	CEMENT CONCRETE SIDEWALK		TCP	
					OR	197	0601 7014 LF	18" REINFORCED CONCRETE PIPE, TYPE A, 15' - 2' FILL, 100 YEAR DESIGN LIFE	602	30-32	1	0605 2858 EACH	TYPE 5 INLET BOX, HEIGHT < />= 10'		33-35	101	0676 0004 SY	DRIVEWAY APRONS AND SIDEWALKS THROUGH DRIVEWAYS		37	
88	0313 0320	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH		URP2	EITHER	72	0601 0563 LF	30" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	603	30-32	1	0605 2859 EACH	TYPE 5 INLET BOX, HEIGHT > 10' AND < />= 20'		33-35	48	0677 0001 CY	SELECTED MATERIAL SURFACING		29, 38-41	
221	0313 0324	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH		URP1, URP2	OR	72	0601 1927 LF	30" SPIRAL RIB ALUMINIZED STEEL PIPE, TYPE IR, (3/4" X 3/4" X 7 1/2" CORRUGATIONS), 12 GAGE, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	603	30-32	1	0605 3010 EACH	TYPE 4 MANHOLE, STORM WATER, HEIGHT < />=5'		33-35		0686 0010 LS	CONSTRUCTION SURVEYING, TYPE A		NO TAB	
14602	0313 0424	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH		TCP	29	72	0601 7528 LF	30" REINFORCED CONCRETE PIPE, TYPE A, 15' - 3' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	603	30-32	1	0605 3011 EACH	TYPE 4 MANHOLE, STORM WATER, HEIGHT >5' AND < />= 10'		33-35		0686 0050 LS	CONSTRUCTION SURVEYING, TYPE D		NO TAB	
						511	0601 5901 LF	CLEANING EXISTING PIPE CULVERTS, DIAMETERS UP TO AND INCLUDING 36"		TCP	30-32	1	0605 3021 EACH	TYPE 5 MANHOLE, STORM WATER, HEIGHT >5' AND < />= 10'		33-35		0689 0005 LS	CPM SCHEDULE, WITH UPDATES		NO TAB
329	0316 0424	SUPERPAVE ASPHALT MIXTURE DESIGN, FLEXIBLE BASE REPLACEMENT, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5" DEPTH		TCP		93	0601 6399 LF	14" X 23" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, 3' - 2', 100 YEAR DESIGN LIFE		30-32	4	0606 0050 SET	GRADE ADJUSTMENT OF EXISTING INLETS		33-35	10000	0690 0003 DOLLA	FORMAL FACILITATION		NO TAB	
1678	0350 0106	SUBBASE 6" DEPTH (NO. 2A)		TCP	29, URP1, URP2	101	0601 6400 LF	19" X 30" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, 3' - 2', 100 YEAR DESIGN LIFE		30-32	37	0606 0060 SET	GRADE ADJUSTMENT OF EXISTING INLETS, TYPE 1 RISER		33-35						
13573	0350 0108	SUBBASE 8" DEPTH (NO. 2A)		29		255	0601 6419 LF	19" X 30" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, 7' - 3', 100 YEAR DESIGN LIFE		30-32	2	0606 0150 SET	GRADE ADJUSTMENT OF EXISTING MANHOLES		33-35						
13534	0413 0244	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-E		29		102	0601 6435 LF	19" X 30" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, 10' - 7', 100 YEAR DESIGN LIFE		30-32		0608 0001 LS	MOBILIZATION		NO TAB						



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SUMMARY

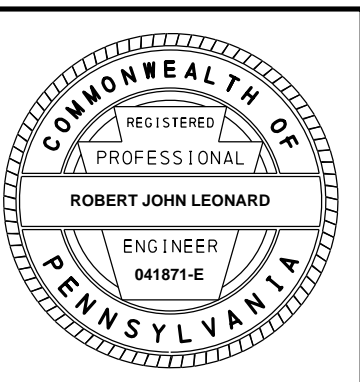
S1 = STRUCTURE S-42172
 S2 = STRUCTURE S-42336
 HLP = HIGHWAY LIGHTING PLAN
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REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	25 OF 54
CITY OF HARRISBURG								

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URP2 = UTILITY RELOCATION PLAN - WATER

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
EITHER 310	0695 0002 SF	DETECTABLE WARNING SURFACE, CAST IRON	6	37	6	4849 0010 EACH	ROCK CONSTRUCTION ENTRANCE (ABACT)		38-41	615	0910 6000 LF	TRENCH		HLP	1250	0954 0201 LF	SIGNAL CABLE, 14 AWG, 3 CONDUCTOR		TSP
OR 310	0695 0003 SF	DETECTABLE WARNING SURFACE, POLYMER CONCRETE	6	37	2	0850 0032 CY	ROCK, CLASS R-4		42		0910 7210 LS	TESTING OF ENTIRE LIGHTING SYSTEM		HLP	2000	0954 0202 LF	SIGNAL CABLE, 14 AWG, 5 CONDUCTOR		TSP
OR 310	0695 0004 SF	DETECTABLE WARNING SURFACE, POLYMER COMPOSITE	6	37	51	0851 0003 SY	ROCK APRON		38-41	144	0931 0001 SF	POST MOUNTED SIGNS, TYPE B		SPM	800	0954 0203 LF	SIGNAL CABLE, 14 AWG, 7 CONDUCTOR		TSP
8	0696 0600 EACH	TEMPORARY IMPACT ATTENUATING DEVICE, TYPE V (STANDARD), TEST LEVEL 2		TCP	2	0855 0003 EACH	PUMPED WATER FILTER BAG		38-41	61	0935 0001 SF	POST MOUNTED SIGNS, TYPE F		SPM	4	0954 0302 EACH	JUNCTION BOX, JB-27		TSP
7	0697 0600 EACH	RESET TEMPORARY IMPACT ATTENUATING DEVICE, TYPE V (STANDARD), TEST LEVEL 2		TCP	2	0855 0004 EACH	REPLACEMENT PUMPED WATER FILTER BAG		38-41	153	0936 0200 SF	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS		SPM, TSP	1	0954 0305 EACH	JUNCTION BOX, JB-30		TSP
					20	0860 0000 EACH	INLET FILTER BAG FOR TYPE M INLET		38-41	11	0941 0001 EACH	RESET POST MOUNTED SIGNS, TYPE B		SPM	1	0954 0403 EACH	ELECTRICAL SERVICE, TYPE C		TSP
131	0703 0020 CY	NO. 1 COARSE AGGREGATE		38-41	45	0860 0002 EACH	INLET FILTER BAG FOR TYPE C INLET		38-41	11	0945 0001 EACH	RESET POST MOUNTED SIGNS, TYPE F		SPM	6	0955 3208 EACH	VEHICULAR SIGNAL HEAD, THREE 12" SECTIONS		TSP
1	0703 0025 CY	NO. 57 COARSE AGGREGATE		42	2069	0867 0012 LF	COMPOST FILTER SOCK, 12" DIAMETER		38-41						2	0955 3209 EACH	VEHICULAR SIGNAL HEAD, FOUR 12" SECTIONS		TSP
					107	0867 0022 LF	COMPOST FILTER SOCK, 24" DIAMETER		38-41	1	4951 0230 EACH	TRAFFIC SIGNAL SUPPORT, 30' MAST ARM, POWDER COATED MODIFIED		TSP	2	0955 3210 EACH	VEHICULAR SIGNAL HEAD, FIVE 12" SECTIONS		TSP
761	0802 0001 CY	TOPSOIL FURNISHED AND PLACED		38-41						2	4951 0245 EACH	TRAFFIC SIGNAL SUPPORT, 45' MAST ARM, POWDER COATED MODIFIED		TSP	8	0955 3722 EACH	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, TYPE A		TSP
120	0803 0001 CY	PLACING STOCKPILED TOPSOIL		42		0901 0001 LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION		NO TAB	2	4951 0250 EACH	TRAFFIC SIGNAL SUPPORT, 50' MAST ARM, POWDER COATED MODIFIED		SPM, TSP	1	4956 0712 EACH	OMNI-VIEW VIDEO DETECTION SYSTEM MODIFIED		TSP
89	0804 0025 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH		38-41, 42	100	0901 0231 DAY	ADDITIONAL WARNING LIGHTS, TYPE B		TCP	1	4951 0260 EACH	TRAFFIC SIGNAL SUPPORT, 60' MAST ARM, POWDER COATED MODIFIED		SPM	8	0956 0790 EACH	ACCESSIBLE PEDESTRIAN SIGNALS		TSP
175	0804 0027 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH		38-41	200	0901 0240 SF	ADDITIONAL TRAFFIC CONTROL SIGNS		TCP	1	4951 2240 EACH	TRAFFIC SIGNAL SUPPORT, 40' MAST ARM WITH LUMINAIRE ARM (30' MOUNTING HEIGHT), POWDER COATED MODIFIED		TSP	1	4956 0800 EACH	GPS (RADIO BASED) PREEMPTION SYSTEM MODIFIED		TSP
62	0804 0032 LB	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH		38-41	20185	0901 0320 LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW		TCP	4	4951 4102 EACH	TRAFFIC SIGNAL SUPPORT, 10' PEDESTAL, POWDER COATED MODIFIED		TSP	1	0958 0041 EACH	TEMPORARY TRAFFIC CONTROL SIGNALS ON FIXED SUPPORTS (4 OR MORE APPROACHES)		TCP
113	0804 0038 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX		38-41	2400	0901 0321 LF	6" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW		TCP	7	0951 4108 EACH	PEDESTRIAN STUB POLE, POWDER COATED		TSP	2	0958 0221 EACH	TEMPORARY TRAFFIC CONTROL SIGNAL ON FIXED SUPPORTS, RESET (4 OR MORE APPROACHES)		TCP
5	0804 0039 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA N CONSERVATION MIX		38-41	5908	0901 0330 LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP	1	4952 1040 EACH	NEMA TS-2; TYPE 2 CONTROLLER ASSEMBLY, TYPE 1 MOUNTING MODIFIED		TSP					
956	0806 0112 SY	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2C		42	12937	0901 0331 LF	6" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP		0953 0406 LS	WIRELESS BROADBAND COMMUNICATIONS SYSTEM		TSP	5	0962 1025 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "ONLY", 8'-0"		TCP
3177	0806 0113 SY	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D		38-41	170	0901 0334 LF	24" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP	1	4953 0601 EACH	MANAGED NETWORK SWITCH, FIELD SWITCH TYPE B MODIFIED		TSP	1	4962 1030 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "HANDICAP SYMBOL", 3'-3" X 2'-11" ON BLUE BACKGROUND		SPM
3	0808 3351 EACH	WILLOW OAK - (1 1/2" CAL. B&B)		42	4	0901 0461 EACH	FULL-MATRIX CHANGEABLE MESSAGE SIGN WITHOUT TELECOMMUNICATIONS		TCP		0953 0802 LS	UNIFIED COMMAND AND CONTROL INTEGRATION		TSP	6	0962 1061 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "RIGHT ARROW", 12'-0" X 3'-0"		TCP
3	0808 3583 EACH	WASHINGTON HAWTHORN - (5' HT. B&B)		42	6	0910 0001 EACH	JUNCTION BOXES J.B.-1		HLP	817	0954 0012 LF	2 INCH CONDUIT		TSP	17	0962 1062 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "LEFT ARROW", 12'-0" X 3'-0"		TCP
3	0808 3731 EACH	ARROWWOOD VIBURNUM - (3' HT. B&B)		42	580	0910 4115 LF	AWG 6 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR		HLP	305	0954 0013 LF	3 INCH CONDUIT		TSP	1717	0963 0001 SF	PAVEMENT MARKING REMOVAL		SPM, TCP
10	0808 4292 EACH	BAYBERRY - (3' HT. B&B)		42	7825	0910 4116 LF	AWG 8 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR		TSP, HLP	779	0954 0151 LF	TRENCH AND BACKFILL, TYPE I		TSP					
50	0811 0003 LF	TEMPORARY PROTECTIVE FENCE		38-41						14	0954 0152 LF	TRENCH AND BACKFILL, TYPE II		TSP					
5000	0845 0001 DOLLA	UNFORESEEN WATER POLLUTION CONTROL		NO TAB	1085	0910 5055 LF	2" DIRECT BURIAL CONDUIT		HLP	33	0954 0153 LF	TRENCH AND BACKFILL, TYPE III		TSP					



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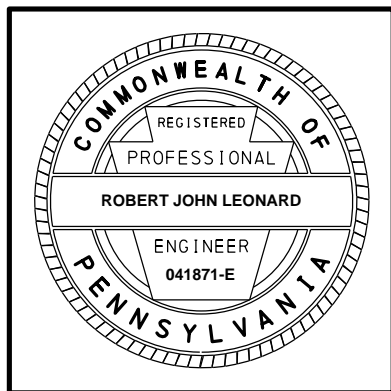
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	UNIT					UNIT					UNIT					UNIT				
8300	0963 0004 LF	4" PAVEMENT MARKING REMOVAL		TCP	AND 138395	1002 0052 LB	REINFORCEMENT BARS, EPOXY COATED	1	S1	6	1007 0210 EACH	MICROPILES PROOF LOAD TEST	2	S2	395	9000 0053 LF	REMOVE EXISTING CHAIN LINK SECURITY FENCE AND GATE		37	
4100	0963 0006 LF	6" PAVEMENT MARKING REMOVAL		TCP	AND 494	1002 0152 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 5 REINFORCEMENT BARS, EPOXY COATED	1	S1	AND	1007 0220 LS	MICROPILES MOBILIZATION	2	S2	1120	9000 0054 LF	REMOVE EXISTING PEDESTRIAN RAILING		37	
9	0963 0010 EACH	PAVEMENT MARKING REMOVAL (LEGENDS AND SYMBOLS)		TCP	AND 38	1002 0154 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 7 REINFORCEMENT BARS, EPOXY COATED	1	S1	AND 430	1007 0230 CF	MICROPILES GROUT	2	S2	1261	9000 0098 SF	BIKE LANE (GREEN EPOXY PAINT)		SPM	
185	0964 0001 LF	4" WHITE EPOXY PAVEMENT MARKINGS		SPM	AND 50	1002 0155 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 8 REINFORCEMENT BARS, EPOXY COATED	1	S1	AND 4179	5007 0350 LF	MICROPILES 9 5/8" DIAMETER, PLAIN STEEL (EPOXY COATED ALL-THREAD BAR)	2	S2	X	9000 0099 LS	REMOVE EXISTING SPAN WIRE SIGN STRUCTURE		SPM	
5275	0964 0002 LF	4" YELLOW EPOXY PAVEMENT MARKINGS		SPM	AND 756	1005 1410 LF	MANDATORY PREDRILLING FOR DRIVEN PILES	1	S1	OR	8000 0002 LS	PRESTRESSED CONCRETE BRIDGE STRUCTURE	2	S2	X	9000 0100 LS	REMOVE EXISTING SIGN STRUCTURE		SPM	
6305	0964 0005 LF	6" WHITE EPOXY PAVEMENT MARKINGS		SPM	AND 4	1005 1480 EACH	DYNAMIC PILE LOAD TEST	1	S1	OR	8100 0002 LS	STEEL BRIDGE STRUCTURE	2	S2	1	9000 0101 EACH	LED LUMINAIRE, ARM MOUNTED		TSP	
660	0965 0021 LF	24" WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKINGS		SPM	AND 720	1005 2840 LF	STEEL HP14X89 PRODUCTION PILE, GALVANIZED	1	S1						X	9000 0103 LS	DISCONNECT, PULL BACK AND REROUTE COMMUNICATION CABLE		TSP	
1	0965 0101 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "ONLY", 8' - 0"		SPM	AND 32	1005 2040 EACH	STEEL HP14X89 PILE TIP REINFORCEMENT (HEAVY DUTY)	1	S1	2	9000 0001 EACH	REMOVE PARCEL 7 LIGHT POLE			28					
6	0965 0222 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "RIGHT ARROW", 12' - 0" X 3' - 0"		SPM	OR	8000 0001 LS	PRESTRESSED CONCRETE BRIDGE STRUCTURE	1	S1	1	9000 0002 EACH	REMOVE PARCEL 7 SIGN			28	X	9000 0201 LS	PRESSURE WASHING CONCRETE SURFACES		NO TAB
16	0965 0224 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "LEFT ARROW", 12' - 0" X 3' - 0"		SPM	OR	8100 0001 LS	STEEL BRIDGE STRUCTURE	1	S1	X	9000 0007 LS	ENDWALL ENERGY DISSIPATOR			38-41	8	9000 0202 SF	REPAIR DETERIORATED CONCRETE		S2
3	0965 0226 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "THRU AND RIGHT ARROW", 20' - 0" X 3' - 7"		SPM						X	9000 0008 LS	TEMPORARY STREAM CROSSING			38-41	X	9000 0203 LS	DEBRIS SHIELDING		S2
7	0965 0257 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, SHARED LANE MARKING		SPM	EITHER	8120 0001 LS	BRIDGE STRUCTURE, AS DESIGNED, S-42336	2	S2	645	9000 0009 LF	14" X 23" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, (OPEN JOINT), 3'-2' FILL, 100 YEAR DESIGN LIFE			30-32					
10	0965 0428 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "BICYCLE WITH RIDER", 6' - 0" X 3' - 4"		SPM	AND 758430	1002 0053 LB	REINFORCEMENT BARS, EPOXY COATED	2	S2	257	9000 0010 LF	19" X 30" ELLIPTICAL REINFORCED CONCRETE PIPE, TYPE A SHORE/TRENCH BOX HORIZONTAL, (OPEN JOINT), 3'-2' FILL, 100 YEAR DESIGN LIFE			30-32	X	9000 0300 LS	TEMPORARY RAILROAD CROSSING - NORTH		38-41
12	0965 0429 EACH	WHITE PREFORMED THERMOPLASTIC LEGEND, "STRAIGHT ARROW", 6' - 0" X 1' - 8"		SPM	AND 1540	1002 0140 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 5 REINFORCEMENT BARS, EPOXY COATED	2	S2	1	9000 0011 EACH	INLET CAP (WITH ROUND OPENING)			33-35	X	9000 0301 LS	TEMPORARY RAILROAD CROSSING - SOUTH		38-41
11	0971 0001 EACH	REMOVE POST MOUNTED SIGNS, TYPE B		SPM	AND 1192	1002 0142 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 6 REINFORCEMENT BARS, EPOXY COATED	2	S2	20	9000 0012 LB	SEEDING AND SOIL SUPPLEMENTS - PENNDOT SEED MIX 1			42	X	9000 0320 LS	TEMPORARY LOCKED GATE		NO TAB
14	0975 0001 EACH	REMOVE POST MOUNTED SIGNS, TYPE F		SPM	AND 84	1002 0146 EACH	MECHANICAL SPLICE SYSTEM FOR NO. 7 REINFORCEMENT BARS, EPOXY COATED	2	S2	1	9000 0013 LB	SEEDING AND SOIL SUPPLEMENTS - STORMWATER AREA SEED MIX			42	10000	9000 0321 DOLLA	PRIVATE GRADE CROSSING APPLICATION		NO TAB
					AND 20000	1005 1440 DOLLA	PILE EXTRACTION AND REDRIVING	2	S2	118	9000 0014 CY	SOIL AMENDMENT MIXTURE			42	1750000	9000 0351 DOLLA	DIRECT HIRE FOR PROTECTIVE SERVICES (FLAGGING)		NO TAB
	X 1018 0049 LS	REMOVAL OF PORTION OF EXISTING BRIDGE, S-42336		S2	AND 8	1005 1481 EACH	DYNAMIC PILE LOAD TEST	2	S2	560	9000 0015 SY	30 MIL HDPE IMPERMEABLE LINER			42	10	9000 0500 EACH	20,000 LUMEN LED ROADWAY LUMINAIRE, ARM MOUNT, TYPE IV		HLP
	X 1018 0050 LS	REMOVAL OF PORTION OF EXISTING BRIDGE, S-42172		S1	AND 2698	1005 1840 LF	STEEL HP14X89 PRODUCTION PILE	2	S2	40	9000 0016 CY	STORMWATER SOIL MIX			42	10	9000 0504 EACH	ORNAMENTAL LIGHTING POLE AND 6-FOOT BRACKET ARM, 30-FOOT MOUNTING HEIGHT		HLP
7232	1019 0050 SY	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)		S1 , S2	AND 166	1005 2041 EACH	STEEL HP14X89 PILE TIP REINFORCEMENT (HEAVY DUTY)	2	S2	15000	9000 0020 DOLLA	EXISTING DRAINAGE CONNECTION			30-32	1	9000 0505 EACH	COMPLETE POWER SUPPLY SYSTEM, REPLACEMENT		HLP
3000	1999 9999 HOUR	TRAINEES		NO TAB	AND 6	1006 0030 LF	OBSTRUCTION DRILLING, CAISSONS	2	S2						X	9000 0506 LS	TEMPORARY LIGHTING AND POWER		HLP	
					AND 38	1006 1005 LF	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION IN SOIL	2	S2	355	9000 0050 LF	CHAIN LINK SECURITY FENCE			37					
	X 8030 0001 LS	BRIDGE STRUCTURE, AS DESIGNED, S-42172		S1	AND 15	1006 1090 LF	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	2	S2	1	9000 0051 EACH	CHAIN LINK SECURITY FENCE VEHICULAR GATE, 30-FOOT OPENING			37					
24	1001 0225 LB	4X4 EPOXY COATED STEEL WWF W2 X W2		S1	AND 3	1007 0200 EACH	MICROPILES VERIFICATION LOAD TEST	2	S2	X	9000 0052 LS	PARCEL 20 RETAINING WALL			37					



SPM = SIGNING AND PAVEMENT MARKING PLAN
 TCP = TRAFFIC CONTROL PLAN
 TSP = TRAFFIC SIGNAL PLAN

SUMMARY

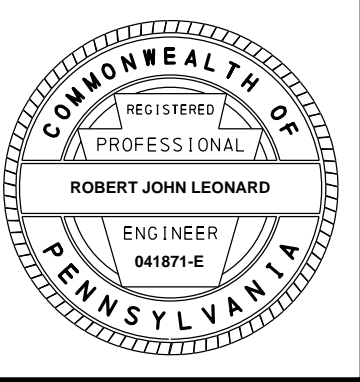
S1 = STRUCTURE S-42172
 S2 = STRUCTURE S-42336
 HLP = HIGHWAY LIGHTING PLAN
 URP1 = UTILITY RELOCATION PLAN - SEWER

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	27 OF 54
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◆ - SEE SPECIAL PROVISIONS

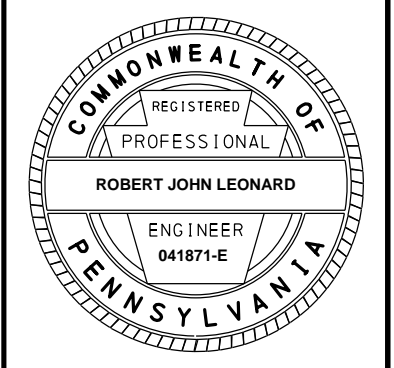
URP2 = UTILITY RELOCATION PLAN - WATER

QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET	QUANTITY	ITEM NO	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	UNIT					UNIT					UNIT					UNIT			
	9000 0507 LS	COORDINATION WITH PPL FOR STREET LIGHTING		HLP	30	9000 1000 LF	6" WATER MAIN PIPE AND FITTINGS		URP2	2	9000 1024 EACH	FIRE HYDRANT - NEW		URP2					
	9000 0508 LS	REMOVAL OF HIGHWAY LIGHTING		HLP	719	9000 1001 LF	12" WATER MAIN PIPE AND FITTINGS		URP2	2	9000 1025 EACH	FIRE HYDRANT - RELOCATE		URP2					
41448	9000 0509 DOLLA	PPL FACILITY CHARGES FOR STREET LIGHTING AND SERVICE RELOCATION		HLP	1	9000 1002 EACH	6" GATE VALVE		URP2	13	9000 1026 EACH	REMOVE EXISTING VALVE BOX		URP2					
70000	9000 0600 DOLLA	MANAGEMENT OF ASBESTOS-CONTAINING MATERIAL ON BRIDGE COMPONENTS		NO TAB	3	9000 1003 EACH	12" GATE VALVE		URP2	3	9000 1027 EACH	REMOVE EXISTING FIRE HYDRANT		URP2					
	9000 0601 LS	ASBESTOS ABATEMENT OF BUILDINGS TO BE DEMOLISHED		28	1	9000 1004 EACH	6" LINE STOP		URP2	5	9000 1028 EACH	REMOVE EXISTING CURB BOX - ABANDONED SERVICES		URP2					
	9000 0602 LS	SITE WORK PLAN		NO TAB	1	9000 1005 EACH	12" LINE STOP		URP2	17	9000 1029 EACH	ABANDON EXISTING WATER MAIN-CUT AND CAP		URP2					
	9000 0603 LS	HEALTH AND SAFETY PLAN		NO TAB	3	9000 1006 EACH	ADJUST EXISTING VALVE BOX TO GRADE		URP2	1	9000 1030 EACH	ABANDON EXISTING WATER VAULT		URP2					
	9000 0604 LS	EXCAVATION SAMPLING, ANALYSIS AND REPORTING		NO TAB	1	9000 1007 EACH	CONNECT TO EXISTING 6" WATER MAIN		URP2	1	9000 1031 EACH	16"X6" TAPPING SLEEVE AND VALVE		URP2					
3051	9000 0606 TON	DISPOSAL OF REGULATED FILL		28	6	9000 1008 EACH	CONNECT TO EXISTING 12" WATER MAIN		URP2	4	9000 1032 EACH	12"X8" TAPPING SLEEVE AND VALVE		URP2					
2984	9000 0607 TON	DISPOSAL OF RESIDUAL WASTE		28	1	9000 1009 EACH	CONNECT TO EXISTING 12" VALVE		URP2	2	9000 1033 EACH	12"X6" TAPPING SLEEVE AND VALVE		URP2					
100000	9000 0608 DOLLA	LIQUID SAMPLING AND DISPOSAL		NO TAB	85	9000 1010 LF	PAXTON CREEK BRIDGE CROSSING		URP2	1	9000 1034 EACH	12"X4" TAPPING SLEEVE AND VALVE		URP2					
155190	9000 0609 DOLLA	HANDLING AND DISPOSAL OF UNDERGROUND STORAGE TANKS		28	24	9000 1011 LF	3/4" WATER SERVICE LINE		URP2	1	9000 1035 EACH	2" BLOW-OFF ASSEMBLY		URP2					
4000	9000 0900 HOUR	FARM SHOW DRIVEWAY FLAGGING		NO TAB	1	9000 1012 EACH	3/4" WATER CURB STOP AND BOX		URP2	6	9000 1036 EACH	REPLACE MANHOLE FRAME AND COVER		URP1					
50	9000 0906 TON	TEMPORARY ASPHALT BUILDUP		TCP	41	9000 1013 LF	1" WATER SERVICE LINE		URP2										
698	9000 0907 LF	TEMPORARY CONSTRUCTION FENCE		TCP	1	9000 1014 EACH	1" WATER CURB STOP AND BOX		URP2	2	9000 2000 EACH	INTERPRETIVE PANEL		NO TAB					
506	9000 0911 LF	TEMPORARY PLAIN CEMENT CONCRETE CURB		TCP	36	9000 1015 LF	1-1/2" WATER SERVICE LINE		URP2		9000 5101 LS	ELECTRONIC TICKETING (E-TICKETING) FOR CONSTRUCTION AGGREGATE		NO TAB					
4	9000 0912 EACH	INSTALLATION AND REMOVAL/RESTORATION OF TEMPORARY CURB RAMP		TCP	1	9000 1016 EACH	1-1/2" WATER CURB STOP AND BOX		URP2		9000 5103 LS	ELECTRONIC TICKETING (E-TICKETING) FOR CONSTRUCTION CONCRETE		NO TAB					
11	9000 0920 LF	TEMPORARY 18" PIPE		TCP	1	9000 1017 EACH	WATER VAULT		URP2		9203 0101 LS	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, S-42172		S1					
4	9000 0921 EACH	TEMPORARY INLET CAP - NO TRAFFIC		TCP	84	9000 1018 LF	4" WATER/FIRE SERVICE LINE		URP2		9203 0102 LS	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, S-42336		S2					
4	9000 0922 EACH	TEMPORARY INLET CAP - IN TRAFFIC		TCP	4	9000 1019 EACH	CONNECT TO EXISTING 3" OR 4" WATER/FIRE SERVICE LINE		URP2										
1	9000 0923 EACH	TEMPORARY TYPE M INLET AND BOX		TCP	180	9000 1020 LF	8" WATER/FIRE SERVICE LINE		URP2										
3	9000 0924 EACH	CONNECT EXISTING PIPE TO PROPOSED INLET		TCP	4	9000 1021 EACH	CONNECT TO EXISTING 8" WATER/FIRE SERVICE LINE		URP2										
2	9000 0925 EACH	TEMPORARY MANHOLE		TCP	96	9000 1022 LF	6" WATER MAIN PIPE AND FITTINGS-FIRE HYDRANT SERVICE LINE		URP2										
					1	9000 1023 EACH	6" GATE VALVE-FIRE HYDRANT SERVICE LINE		URP2										



TABULATION OF QUANTITIES ROADWAY

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				08	DAUPHIN	3022	005	29 OF 54
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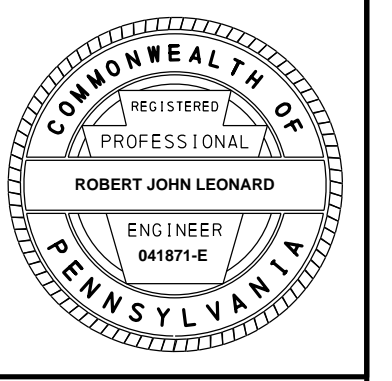
0203 0001 CY	0203 0006 LF	0212 0014 SY	0313 0424 SY	0350 0106 SY	0350 0108 SY	0413 0244 SY	0413 6045 SY	0460 0001 SY	0677 0001 CY	REMARKS	SIDE	STATIONS
										SR 3022		
	316	4173	4173		4173	4173	4173	8346		INCLUDING 7TH STREET	LT / RT	30+68.00 to 36+09.00
32	31	70	70		70	70	70	140		AUTOZONE DRIVEWAY	RT	31+28.00 to 31+90.00
20		48	48	48		48	48	96		PARCEL 4 PARKING LOT	RT	31+71.00 to 33+29.00
		3435	3435		3435	3435	3435	6870			LT / RT	41+10.00 to 46+12.00
10									10	PARCEL 15 DRIVE	RT	42+24.00 to 42+54.00
15	26	34	34		34	34	34	68		NORFOLK SOUTHERN DRIVE	RT	44+74.00 to 45+02.00
	357	4735	4514		4735	4514	4514	9028			LT / RT	46+80.00 to 52+90.00
31	36	124	124		124	124	124	248		PARCEL 19 DRIVE	RT	46+98.00 to 47+25.00
97	52	224	224		224	224	224	448		FARM SHOW DRIVE	LT	46+98.00 to 47+96.00
29		69	69	69		69	69	138		PARCEL 19 PARKING LOT	RT	47+25.00 to 49+33.00
22	23	67	67		67	67	67	134		PARCEL 20 DRIVE	RT	49+19.00 to 49+72.00
27		65	65	65		65	65	130		PARCEL 20 PARKING LOT	RT	49+57.00 to 50+18.00
25	23	67	67		67	67	67	134		JULIA STREET	RT	51+98.00 to 52+55.00
										INDUSTRIAL RD		
	20	546	546		546	546	546	1092			LT / RT	10+34.00 to 12+75.00
										JEFFERSON ST		
	25	98	98		98	98	98	196			LT / RT	31+11.00 to 31+66.00
308	909	13755	13534	182	13573	13534	13534	27068	10	TOTALS		

TABULATION OF QUANTITIES

DRAINAGE PIPES

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	30 OF 54
CITY OF HARRISBURG								

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS



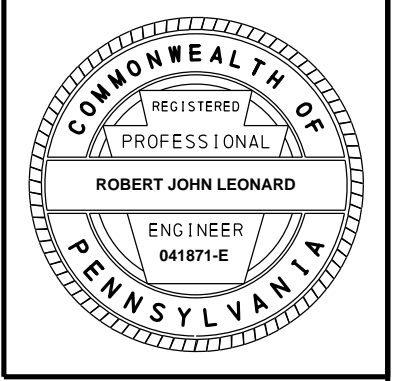
CLASS 2 EXCAVATION	REMARKS	SIDE	STATIONS
0204 0001 CY	ENTIRE PROJECT		
0220 0020 CY	CONNECT EXISTING PIPES TO PROPOSED INLETS	LT / RT	0+00.00
0601 (+) LF	SR 3022		
0601 (+) LF	PIPE FROM INLET IN1 TO INLET IN15	LT	31+08.00 to 31+75.00
6.4	REMOVE EXISTING INLET AND CROSS PIPE	LT	31+20.24 to 31+22.88
8.8	PIPE FROM INLET IN2 TO INLET IN3	RT	31+24.07 to 31+52.95
6.5	REMOVE EXISTING INLET AND CROSS PIPE	RT	31+33.03 to 31+44.13
	REMOVE EXISTING INLET AND PARALLEL PIPE	RT	31+34.97 to 31+58.87
	CLEAN 12" SLPP	RT	31+39.24 to 31+57.71
1.1	FILL 18" SLPP	LT / RT	31+44.13 to 31+75.00
	PIPE FROM INLET IN3 TO INLET IN4	RT	31+52.95 to 32+08.00
	PIPE FROM INLET IN15 TO INLET IN16	LT	31+75.00 to 32+99.00
	PIPE FROM INLET IN4 TO INLET IN5	RT	32+08.00 to 32+99.00
	PIPE FROM INLET IN5 TO INLET IN7	RT	32+99.00 to 33+40.00
16.4	PIPE FROM INLET IN16 TO INLET IN22	LT	32+99.00 to 33+53.00
	REMOVE EXISTING INLET AND PARALLEL PIPE	RT	33+38.75 to 33+58.28
	PIPE FROM INLET IN7 TO INLET IN17	RT	33+40.00 to 33+57.40
	PIPE FROM INLET IN22 TO INLET IN14	LT	33+53.00 to 33+66.00
	CLEAN 15" SLPP	RT	33+53.45 to 33+55.48
	CLEAN 16" X 24" RCP	RT	33+55.48 to 34+02.02
5.7	REMOVE EXISTING INLET AND PARALLEL PIPE	RT	33+56.60 to 33+57.11
16.3	REMOVE EXISTING MANHOLE AND PARALLEL PIPE	RT	33+57.11 to 33+58.28
0.8	FILL 12" SLPP	LT	33+59.34 to 33+86.68
1.4	FILL 12" SLPP	LT	33+86.68 to 34+25.41
20.6	REMOVE EXISTING PIPE	LT	34+10.75 to 34+40.23
21.2	REMOVE EXISTING INLET AND PARALLEL PIPE PORTION	RT	34+14.10 to 34+27.26
	PIPE FROM INLET IN12 TO INLET IN6	LT / RT	34+25.82 to 34+08.69
8.7	REMOVE EXISTING INLET AND PARALLEL PIPE PORTION	LT	34+38.83 to 34+40.23

TABULATION OF QUANTITIES

DRAINAGE PIPES

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	31 OF 54
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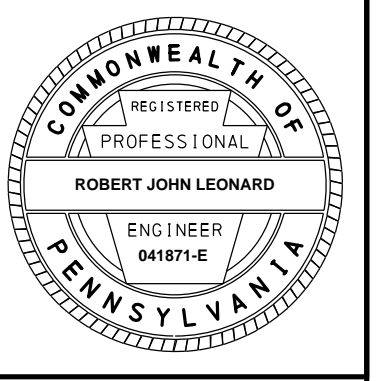
(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

CLASS 2 EXCAVATION			REMARKS	SIDE	STATIONS			
0204	0001	CY						
0220	0020	CY				<div style="text-align: right;">  </div>	RT	34+60.00 to 34+66.31
0601	(+)	LF						
0601	(+)	LF	24	PIPE FROM INLET IN8 TO OUTLET O-1	34+60.00 to 34+66.31			
0601	(+)	LF	63	PIPE FROM INLET IN11 TO INLET IN8	34+61.00 to 34+60.00			
0601	(+)	LF	3.6	FILL 12" SLPP	34+72.68 to 34+40.23			
0601	(+)	LF	98	PIPE FROM INLET IN9 TO INLET IN8	35+60.00 to 34+60.00			
0601	(+)	LF	100	PIPE FROM INLET IN10 TO INLET IN11	35+66.00 to 34+61.00			
0601	(+)	LF	63	PIPE FROM INLET IN214 TO INLET IN213	41+45.00 to 41+50.00			
0601	(+)	LF	152	PIPE FROM INLET IN213 TO INLET IN217	41+50.00 to 43+05.00			
0601	(+)	LF	149	PIPE FROM INLET IN217 TO INLET IN211	43+05.00 to 44+57.00			
0601	(+)	LF	174	PIPE FROM INLET IN212 TO INLET IN210	44+00.00 to 45+79.00			
0601	(+)	LF	120	PIPE FROM INLET IN211 TO INLET IN209	44+57.00 to 45+79.00			
0601	(+)	LF	63	PIPE FROM INLET IN210 TO INLET IN209	45+79.00			
0601	(+)	LF	20	PIPE FROM INLET IN209 TO MANHOLE MH1	45+79.00 to 45+80.00			
0601	(+)	LF	40	PIPE FROM MANHOLE MH1 TO OUTLET O-2	45+80.00 to 46+20.31			
0601	(+)	LF	16.5	REMOVE EXISTING INLET AND PARALLEL PIPE PORTION	45+84.75 to 46+27.28			
0601	(+)	LF	69.9	REMOVE EXISTING PIPE	46+72.39 to 47+37.78			
0601	(+)	LF	161.2	REMOVE EXISTING INLET AND PARALLEL PIPE	47+37.78 to 49+15.02			
0601	(+)	LF	72	PIPE FROM INLET IN204 TO OUTLET O-3	47+38.00 to 46+76.29			
0601	(+)	LF	102	PIPE FROM MANHOLE MH3 TO OUTLET O-4	47+75.00 to 46+74.24			
0601	(+)	LF	3.6	REMOVE EXISTING INLET AND CROSS PIPE PORTION	48+44.37 to 48+44.48			
0601	(+)	LF	82	PIPE FROM INLET IN205 TO MANHOLE MH3	48+61.46 to 47+75.00			
0601	(+)	LF	173	PIPE FROM INLET IN203 TO INLET IN204	49+15.00 to 47+38.00			
0601	(+)	LF	7.6	FILL 14" X 23" RCP	49+15.02 to 49+65.33			
0601	(+)	LF	30.3	REMOVE EXISTING INLET AND PARALLEL PIPE PORTION	49+15.02 to 49+87.50			
0601	(+)	LF	7	PIPE FROM INLET FSN2 TO INLET IN206	49+57.00			
0601	(+)	LF	92	PIPE FROM INLET IN206 TO INLET IN205	49+57.00 to 48+61.46			
0601	(+)	LF	41	PIPE FROM INLET IN202 TO INLET IN203	49+60.00 to 49+15.00			
0601	(+)	LF	2.8	REMOVE EXISTING INLET	49+66.36			
0601	(+)	LF	4.4	REMOVE EXISTING INLET AND PARALLEL PIPE PORTION	49+71.23 to 49+75.00			

TABULATION OF QUANTITIES

DRAINAGE STRUCTURES

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				08	DAUPHIN	3022	005	33 OF 54
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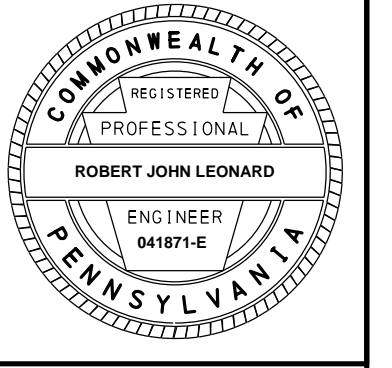


CLEANING DRAINAGE STRUCTURES	MANHOLE FRAME AND COVER	TYPE D ENDWALL	TYPE D-W ENDWALL	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE	TYPE C FRAME AND BICYCLE SAFE GRATE	TYPE M FRAME AND GRATE	TYPE M FRAME AND BICYCLE SAFE GRATE	TYPE M FRAME AND ADA COMPLIANT GRATE	STANDARD INLET BOX, HEIGHT < /≠ 10'	TYPE 4 INLET BOX, HEIGHT < /≠ 10'	TYPE 5 INLET BOX, HEIGHT < /≠ 10'	TYPE 5 INLET BOX, HEIGHT > 10' AND < /≠ 20'	TYPE 4 MANHOLE, STORM WATER, HEIGHT < /≠ 5'	TYPE 4 MANHOLE, STORM WATER, HEIGHT > 5' AND < /≠ 10'	TYPE 5 MANHOLE, STORM WATER, HEIGHT > 5' AND < /≠ 10'	GRADE ADJUSTMENT OF EXISTING INLETS	GRADE ADJUSTMENT OF EXISTING INLETS, TYPE 1 RISER	GRADE ADJUSTMENT OF EXISTING MANHOLES	INLET CAP (WITH ROUND OPENING)	REMARKS		SIDE	STATIONS
																				ITEM NUMBER	UNIT		
0605 1300 EACH	0605 2401 SET	0605 2600 EACH	0605 2620 EACH	0605 2731 SET	0605 2771 SET	0605 2780 SET	0605 2781 SET	0605 2784 SET	0605 2850 EACH	0605 2854 EACH	0605 2858 EACH	0605 2859 EACH	0605 3010 EACH	0605 3011 EACH	0605 3021 EACH	0606 0050 SET	0606 0060 SET	0606 0150 SET	9000 0011 EACH				
																					MACLAY STREET		
					1					1							1				INLET IN1	LT	31+08.00
					1				1								1				INLET IN2	RT	31+24.07
1																					CLEAN INLET	RT	31+39.24 to 31+57.71
							1		1								1				INLET IN3	RT	31+52.95
					1				1								1				INLET IN15	LT	31+75.00
					1				1								1				INLET IN4	RT	32+08.00
					1					1							1				INLET IN16	LT	32+99.00
					1					1							1				INLET IN5	RT	32+99.00
	1																		1		MANHOLE MH6	RT	33+24.60
							1		1												INLET IN23	RT	33+24.85
					1					1							1				INLET IN7	RT	33+40.00
					1					1							1				INLET IN22	LT	33+53.00
1																					CLEAN INLET	RT	33+53.45 to 33+55.48
					1					1							1				INLET IN12	LT	34+25.82
					1				1								1				INLET IN8	RT	34+60.00
					1				1								1				INLET IN11	LT	34+61.00
			1																		OUTLET O-1	RT	34+66.31
				1					1							1					INLET IN9	RT	35+60.00
				1					1							1					INLET IN10	LT	35+66.00
				1					1							1					INLET IN214	LT	41+45.00
				1					1							1					INLET IN213	RT	41+50.00
				1					1							1					INLET IN217	RT	43+05.00
				1					1							1					INLET IN212	LT	44+00.00
				1					1							1					INLET IN211	RT	44+57.00
				1					1							1					INLET IN210	LT	45+79.00
				1					1							1					INLET IN209	RT	45+79.00
1														1							MANHOLE MH1	RT	45+80.00

TABULATION OF QUANTITIES

PAVEMENT BASE DRAIN

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	36 OF 54
CITY OF HARRISBURG								

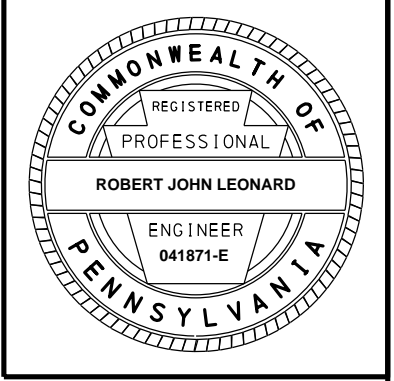


0212 0001 LF	0610 7002 LF	GEOTEXTILE, CLASS 1	6" PAVEMENT BASE DRAIN																					ITEM NUMBER	UNIT	REMARKS	SIDE	STATIONS				
										SR 3022																						
38	38																													CONNECT TO INLET IN1 AT STA 31+08 LT	LT	30+68.31 to 31+06.13
58	58																												CONNECT TO INLET IN2 AT STA 31+24.07 RT	RT	30+68.31 to 31+26.08	
61	61																												CONNECT TO INLET IN6 AT STA 69+26 RT (7TH STREET)	RT	34+08.66 to 34+57.64	
33	33																												CONNECT TO INLET IN12 AT STA 34+25.82 LT	LT	34+26.88 to 34+58.59	
15	15																												CONNECT TO INLET IN9 AT STA 35+60 RT	RT	35+61.86 to 35+76.00	
13	13																												CONNECT TO INLET IN10 AT STA 35+66 LT	LT	35+67.91 to 35+81.00	
19	19																												CONNECT TO INLET IN213 AT STA 41+50 RT	RT	41+30.00 to 41+48.12	
8	8																												CONNECT TO INLET IN214 AT STA 41+45 LT	LT	41+36.00 to 41+43.12	
251	251																												CONNECT TO INLET IN212 AT STA 44+00 LT	LT	41+47.39 to 43+98.11	
36	36																												CONNECT TO INLET IN204 AT STA 47+38 RT	RT	47+00.00 to 47+35.50	
72	72																												CONNECT TO MANHOLE MH3 AT STA 47+75 LT	LT	47+01.00 to 47+72.79	
172	172																												CONNECT TO INLET IN203 AT STA 49+15 RT	RT	47+41.00 to 49+13.00	
82	82																												CONNECT TO INLET IN205 AT STA 48+61.46 LT	LT	47+78.00 to 48+59.46	
287	287																												CONNECT TO INLET IN207 AT STA 50+03 LT	LT	50+05.50 to 52+89.71	
18	18																												CONNECT TO INLET IN218 AT STA 52+70 RT	RT	52+72.05 to 52+89.71	
										7TH STREET																						
42	42																												CONNECT TO INLET IN13 AT STA 70+38.23 RT	RT	70+39.32 to 70+80.00	
												TOTALS																				

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	39 OF 54
CITY OF HARRISBURG								

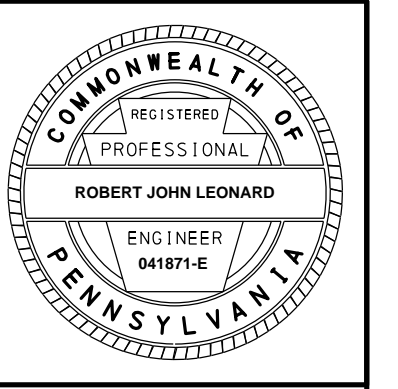


CLASS 1 EXCAVATION	GEOTEXTILE, CLASS 4, TYPE A	SELECTED MATERIAL SURFACING	NO. 1 COARSE AGGREGATE	TOPSOIL FURNISHED AND PLACED	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX	SEEDING AND SOIL SUPPLEMENTS - FORMULA N CONSERVATION MIX	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D	TEMPORARY PROTECTIVE FENCE	ROCK CONSTRUCTION ENTRANCE (ABACT)	ROCK APRON	PUMPED WATER FILTER BAG	REPLACEMENT PUMPED WATER FILTER BAG	INLET FILTER BAG FOR TYPE M INLET	INLET FILTER BAG FOR TYPE C INLET	COMPOST FILTER SOCK, 12" DIAMETER	COMPOST FILTER SOCK, 24" DIAMETER	ENDWALL ENERGY DISSIPATOR	TEMPORARY STREAM CROSSING	TEMPORARY RAILROAD CROSSING - NORTH	TEMPORARY RAILROAD CROSSING - SOUTH	REMARKS	SIDE	STATIONS		
0203 0001	0212 0014	0677 0001	0703 0020	0802 0001	0804 0025	0804 0027	0804 0032	0804 0038	0804 0039	0806 0113	0811 0003	4849 0010	0851 0003	0855 0003	0855 0004	0860 0000	0860 0002	0867 0012	0867 0022	9000 0007	9000 0008	9000 0300	9000 0301					
CY	SY	CY	CY	CY	LB	LB	LB	LB	LB	SY	LF	EACH	SY	EACH	EACH	EACH	EACH	LF	LF	LS	LS	LS	LS					
																1								EXISTING INLET, STAGE 1B-2	LT	37+62.00		
																1								EXISTING INLET, STAGE 1B-2	LT	38+58.00		
																1								EXISTING INLET, STAGE 1B-2	LT	38+97.00		
38	196	38	38																					CONTRACTOR ACCESS ROAD 1	RT	39+24.00 to 39+41.00		
																1								EXISTING INLET, STAGE 1B-2	RT	40+41.00		
										536																RT	41+04.00 to 44+75.00	
										295																LT	41+12.00 to 41+69.00	
																1								IN214, STAGE 2	LT	41+45.00		
																1								IN213, STAGE 1B	RT	41+50.00		
										367															LT	41+83.00 to 44+74.00		
												1												RCE-6	LT	43+00.00		
																		1						IN217, STAGE 1B	RT	43+05.00		
												1												RCE-5	LT	43+25.00		
																		1						IN212, STAGE 2	LT	44+00.00		
										346															LT	44+56.00 to 45+77.00		
																	1							IN211, STAGE 1B	RT	44+57.00		
										105															RT	45+54.00 to 46+02.00		
														1	1					57					RT	45+74.00 to 45+90.00		
										211															LT	45+77.00 to 47+00.00		
																	1							IN210, STAGE 2	LT	45+79.00		
																	1							IN209, STAGE 3	RT	45+79.00		
																	1							TEMPORARY T3, STAGE 1B	RT	45+79.30		
										197															RT	45+88.00 to 47+00.00		
											50														RT	46+18.00 to 46+32.00		
													8											O-2	RT	46+20.00		
										178															LT / RT	46+64.00 to 47+00.00		
													17											O-4	LT	46+74.00		
													26											O-3	RT	46+76.00		

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	40 OF 54
CITY OF HARRISBURG								

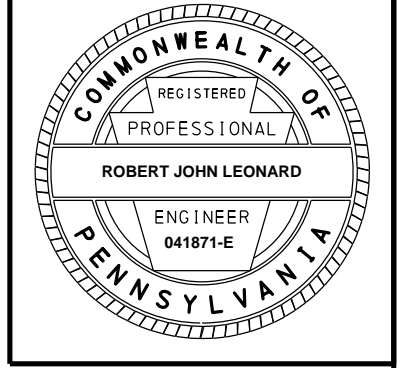


CLASS 1 EXCAVATION 0203 0001 CY	GEOTEXTILE, CLASS 4, TYPE A 0212 0014 SY	SELECTED MATERIAL SURFACING 0677 0001 CY	NO. 1 COARSE AGGREGATE 0703 0020 CY	TOPSOIL FURNISHED AND PLACED 0802 0001 CY	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH 0804 0025 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH 0804 0027 LB	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH 0804 0032 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX 0804 0038 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA N CONSERVATION MIX 0804 0039 LB	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D 0806 0113 SY	TEMPORARY PROTECTIVE FENCE 0811 0003 LF	ROCK CONSTRUCTION ENTRANCE (ABACT) 4849 0010 EACH	ROCK APRON 0851 0003 SY	PUMPED WATER FILTER BAG 0855 0003 EACH	REPLACEMENT PUMPED WATER FILTER BAG 0855 0004 EACH	INLET FILTER BAG FOR TYPE M INLET 0860 0000 EACH	INLET FILTER BAG FOR TYPE C INLET 0860 0002 EACH	COMPOST FILTER SOCK, 12" DIAMETER 0867 0012 LF	COMPOST FILTER SOCK, 24" DIAMETER 0867 0022 LF	ENDWALL ENERGY DISSIPATOR 9000 0007 LS	TEMPORARY STREAM CROSSING 9000 0008 LS	TEMPORARY RAILROAD CROSSING - NORTH 9000 0300 LS	TEMPORARY RAILROAD CROSSING - SOUTH 9000 0301 LS	REMARKS	SIDE	STATIONS	
																											ITEM NUMBER
																								RCE-1	LT	46+93.00	
																									RCE-4	RT	46+93.00
																	1								EXISTING INLET, STAGE 1B	RT	47+38.00
																	1								IN204, STAGE 3	RT	47+38.00
																	1								FS-IN1, STAGE 1A-2	LT	48+44.00
																	1								IN205, STAGE 2	LT	48+61.00
																	1								IN203, STAGE 1B AND 3	RT	49+15.00
																1									FS-IN2, STAGE 2	LT	49+57.00
																	1								IN206, STAGE 2 AND 3	LT	49+57.00
																1									IN202, STAGE 1B AND 3	RT	49+60.00
																	1								EXISTING INLET, STAGE 1A-2	LT	49+66.00
																	1								IN207, STAGE 2 AND 3	LT	50+03.00
																	1								IN201, STAGE 1B AND 3	RT	50+06.00
																1									EXISTING INLET, STAGE 1A	RT	50+19.00
																	1								EXISTING INLET, STAGE 1A	RT	50+92.00
																	1								IN208, STAGE 1B AND 3	RT	50+92.00
																	1								IN219, STAGE 1B AND 3	RT	51+94.00
																1									EXISTING INLET, STAGE 1A-2	LT	51+96.00
																	1								EXISTING INLET, STAGE 1A	RT	52+58.00
																	1								IN216, STAGE 1B AND 3	RT	52+58.00
																	1								IN218, STAGE 1B AND 3	RT	52+70.00
																1									EXISTING INLET, STAGE 1A	LT	52+74.00
																1									IN215, STAGE 2 AND 3	LT	52+74.00
																									7TH STREET		
																	1								IN21, STAGE 1B	LT	68+82.00
																	1								EXISTING INLET, STAGE 1B	RT	68+83.00
																	1								IN18, STAGE 1B	RT	68+83.00
																	1								IN17, STAGE 1B	LT	68+99.00

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

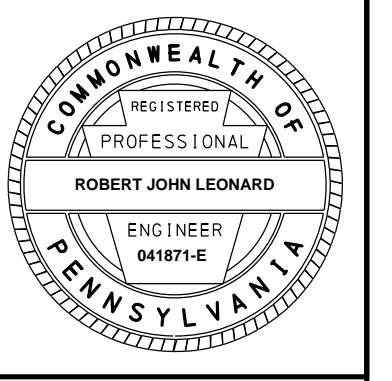
REVISION NO.	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	41 OF 54
CITY OF HARRISBURG								



CLASS 1 EXCAVATION																				REMARKS	SIDE	STATIONS							
0203 0001 CY	0212 0014 SY	0677 0001 CY	0703 0020 CY	0802 0001 CY	0804 0025 LB	0804 0027 LB	0804 0032 LB	0804 0038 LB	0804 0039 LB	0806 0113 SY	0811 0003 LF	4849 0010 EACH	0851 0003 SY	0855 0003 EACH	0855 0004 EACH	0860 0000 EACH	0860 0002 EACH	0867 0012 LF	0867 0022 LF	9000 0007 LS	9000 0008 LS	9000 0300 LS	9000 0301 LS	ITEM NUMBER	UNIT				
																	1									EXISTING INLET, STAGE 1B	RT	69+20.00	
																	1										IN6, STAGE 1B	RT	69+26.00
																	1										EXISTING INLET, STAGE 1B	RT	69+64.00
																	1										IN14, STAGE 2	LT	70+25.00
																	1										EXISTING INLET, STAGE 2	LT	70+30.00
																	1										IN12, STAGE 2	RT	70+31.00
																	1										IN13, STAGE 2	RT	70+38.00
																	1										IN20, STAGE 2	LT	70+75.00
																	1										IN19, STAGE 2	RT	71+06.00
												1														INDUSTRIAL RD			
																										RCE-2	LT	11+91.00 to 12+95.00	
292	574	38	131	761	74	175	62	113	5	3177	50	6	51	2	2	20	45	2069	107	--	--	--	--		TOTALS				

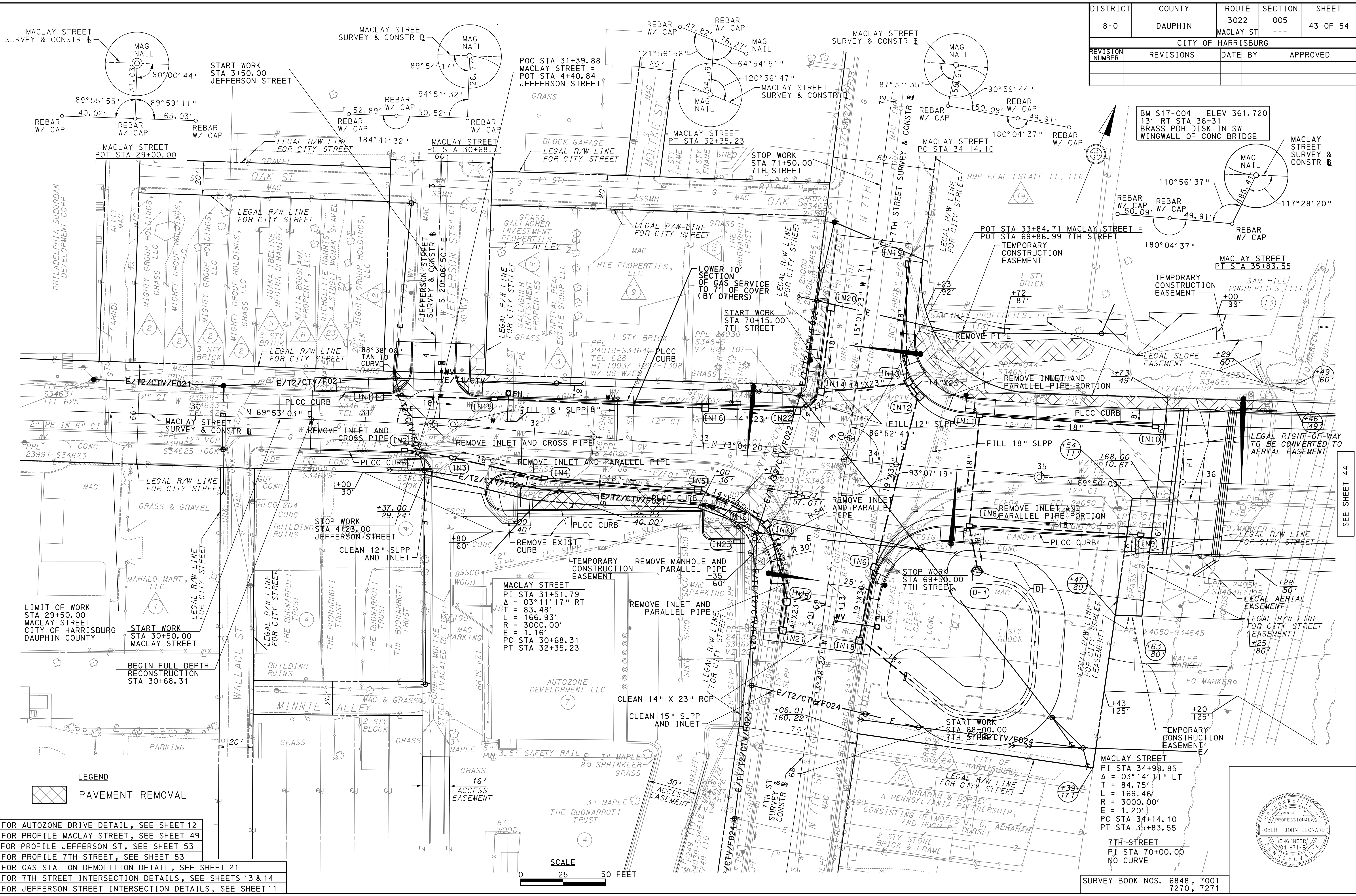
TABULATION OF QUANTITIES POST CONSTRUCTION STORMWATER MANAGEMEM

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	DAUPHIN	3022	005	42 OF 54
CITY OF HARRISBURG								



CLASSIFICATION	CLASS 1 EXCAVATION		CLASS 2 EXCAVATION		NO. 57 COARSE AGGREGATE		PLACING STOCKPILED TOPSOIL		SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH		TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2C		WILLOW OAK - (1 1/2" CAL. B&B)		WASHINGTON HAWTHORN - (5' HT. B&B)		ARROWWOOD VIBURNUM - (3' HT. B&B)		BAYBERRY - (3' HT. B&B)		ROCK, CLASS R-4		SEEDING AND SOIL SUPPLEMENTS - PENNDOT SEED MIX 1		SEEDING AND SOIL SUPPLEMENTS - STORMWATER AREA SEED MIX		SOIL AMENDMENT MIXTURE		30 MIL HDPE IMPERMEABLE LINER		STORMWATER SOIL MIX		REMARKS	SIDE	STATIONS			
	0203 0001 CY	0204 0001 CY	0703 0025 CY	0803 0001 CY	0804 0025 LB	0806 0112 SY	0808 3351 EACH	0808 3583 EACH	0808 3731 EACH	0808 4292 EACH	0850 0032 CY	9000 0012 LB	9000 0013 LB	9000 0014 CY	9000 0015 SY	9000 0016 CY	ITEM NUMBER	UNIT																				
																																		SR 3022				
	84				11																													SAR-1	RT	34+15.00 to 34+75.00		
							3	3	3	10																									FORMER GAS STATION PARCEL	RT	34+15.00 to 35+40.00	
	34				4																													SAR-2	RT	35+20.00 to 35+40.00		
																																			7TH STREET			
		1244	1	120		956										2	20	1						560	40										SCM 001 - VEGETATED SWALE WITH CHECK DAM	RT	68+30.00 to 69+31.00	
118	1244	1	120	15	956	3	3	3	10	2	20	1	118	560	40																					TOTALS		

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	43 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



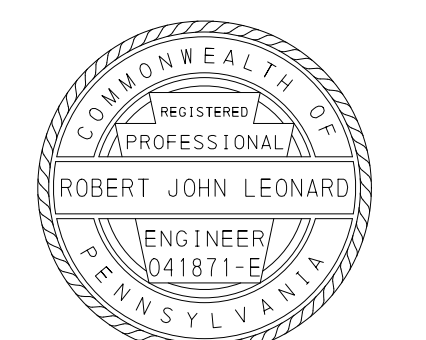
BM S17-004 ELEV 361.720
13' RT STA 36+31
BRASS PDH DISK IN SW
WINGWALL OF CONC BRIDGE

SEE SHEET 44

LEGEND
 PAVEMENT REMOVAL

- FOR AUTOZONE DRIVE DETAIL, SEE SHEET 12
- FOR PROFILE MACLAY STREET, SEE SHEET 49
- FOR PROFILE JEFFERSON ST, SEE SHEET 53
- FOR PROFILE 7TH STREET, SEE SHEET 53
- FOR GAS STATION DEMOLITION DETAIL, SEE SHEET 21
- FOR 7TH STREET INTERSECTION DETAILS, SEE SHEETS 13 & 14
- FOR JEFFERSON STREET INTERSECTION DETAILS, SEE SHEET 11

SCALE
 0 25 50 FEET



MACLAY STREET
 PI STA 34+98.85
 $\Delta = 03^{\circ}14'11''$ LT
 $T = 84.75'$
 $L = 169.46'$
 $R = 3000.00'$
 $E = 1.20'$
 PC STA 34+14.10
 PT STA 35+83.55

7TH STREET
 PI STA 70+00.00
 NO CURVE

SURVEY BOOK NOS. 6848, 7001
7270, 7271

DATE: 5/6/2026 TIME: 03:30 PM
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	44 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

BM S17-004 ELEV 361.720
13' RT STA 36+31
BRASS PDH DISK IN SW
WINGWALL OF CONG BRIDGE

EXISTING STRUCTURE DATA
STA: 38+73
TYPE: SEVEN SPAN CONCRETE
ENCASED ROLLED STEEL BEAM
SPAN: 62'-6" / 63'-6" /
4@7'-8" / 62'-6"
UNDERCLEARANCE: 18'-0"
SKEW: 85° 20' 00"
CLEAR ROADWAY WIDTH: 44'-0"
BUILT: 1940

PROPOSED STRUCTURE DATA
STATION: 38+59.50
TYPE: FOUR SPAN STEEL
PLATE GIRDER
SPAN: 105'-0" / 110'-0" /
160'-0" / 125'-0"
UNDERCLEARANCE: 23'-0"
SKEW: 85° 00' 00"
CLEAR ROADWAY WIDTH: 67'-0"
S-42336
RECOMMENDED:

SAM HILL
PROPERTIES, LLC

SR 3022 SECTION 005
SEGMENT 0022 OFFSET 0000
SEGMENT 0023 OFFSET 0000

INDUSTRIAL ROAD
PI STA 10+71.45
 $\Delta = 10^\circ 43' 40''$ RT
T = 29.29'
L = 58.40'
R = 311.92'
E = 1.37'
PC STA 10+42.17
PT STA 11+00.57

INDUSTRIAL ROAD
PI STA 12+14.53
 $\Delta = 05^\circ 09' 58''$ LT
T = 27.07'
L = 54.10'
R = 600.00'
E = 0.61'
PC STA 11+87.46
PT STA 12+41.56

NOTE:
INTERMODAL ROAD TO
BE RECONSTRUCTED BY
OTHERS IN STAGE 3

NORFOLK SOUTHERN
RAILWAY COMPANY SUCCESSOR
THROUGH MERGER WITH
PENNSYLVANIA LINE, LLC

TEMPORARY
CONSTRUCTION
EASEMENT

INTERMODAL ROAD
PI STA 16+65.87
 $\Delta = 20^\circ 28' 35''$ RT
T = 90.31'
L = 178.69'
R = 500.00'
E = 8.09'
PC STA 15+75.56
PT STA 17+54.25

INTERMODAL ROAD
PI STA 19+17.68
 $\Delta = 03^\circ 22' 38''$ RT
T = 26.53'
L = 53.05'
R = 900.00'
E = 0.39'
PC STA 18+91.14
PT STA 19+44.20

START WORK
STA 10+33.50
INDUSTRIAL ROAD

BRIDGE APPROACH SLAB

BRIDGE APPROACH SLAB

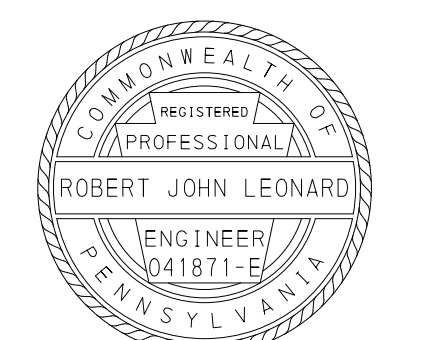
SEE SHEET 43

SEE SHEET 47

LEGEND
PAVEMENT REMOVAL

SR 3022 SECTION 005
SEGMENT 0022 OFFSET 0501
SEGMENT 0023 OFFSET 0501

SCALE
0 25 50 FEET



SURVEY BOOK NOS. 6848, 7001
7270, 7271

FOR PROFILE MACLAY STREET, SEE SHEET 50
FOR PROFILE INDUSTRIAL RD, SEE SHEET 54
FOR PROFILE INDUSTRIAL RD INTERSECTION DETAIL, SEE SHEET 15

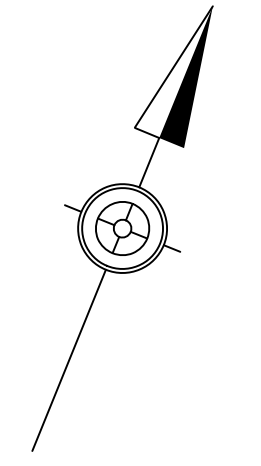
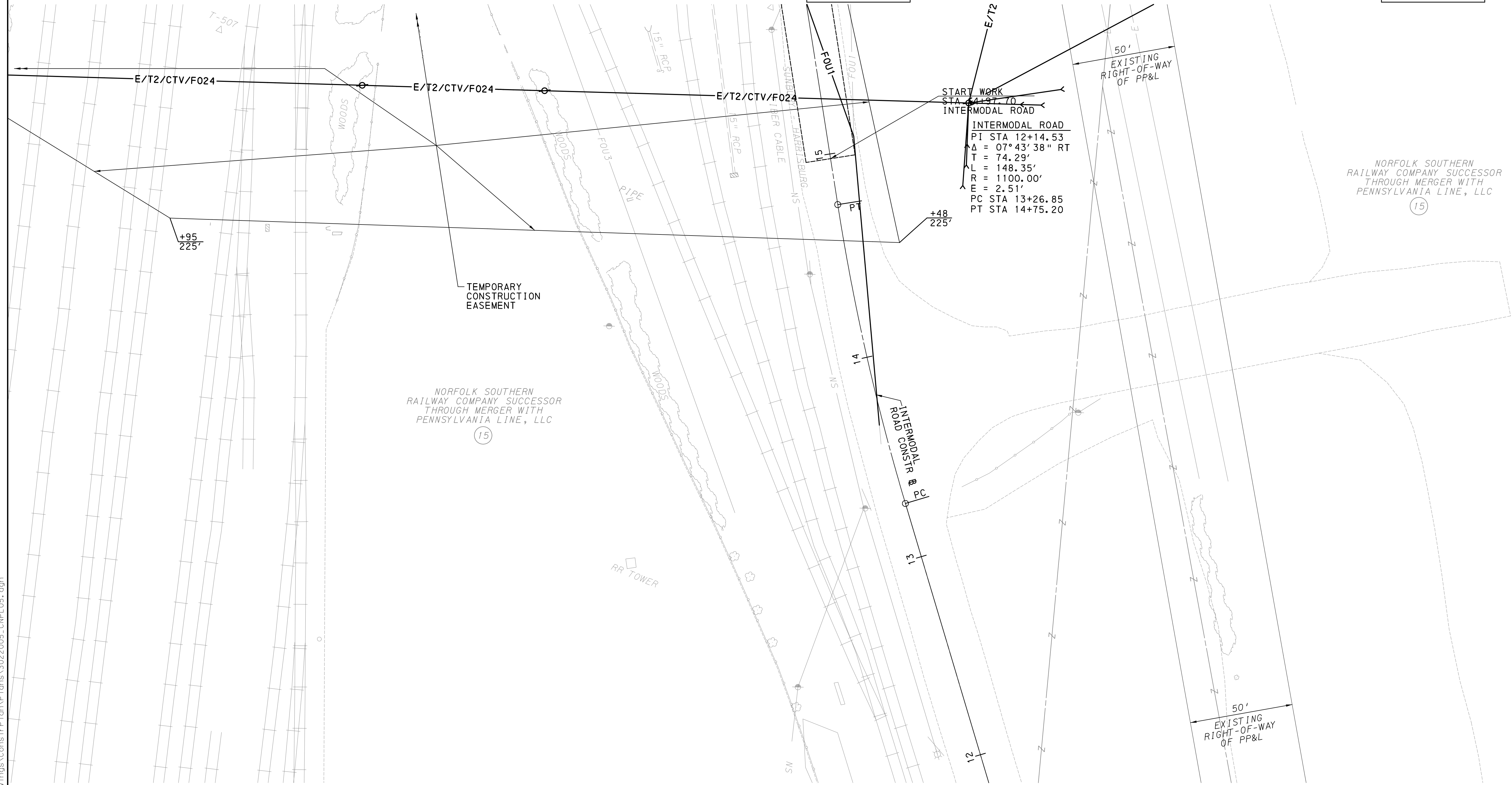
SEE SHEET 45

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	45 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

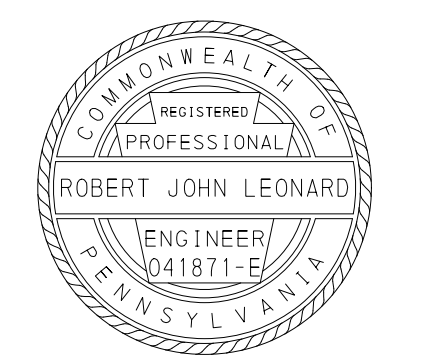
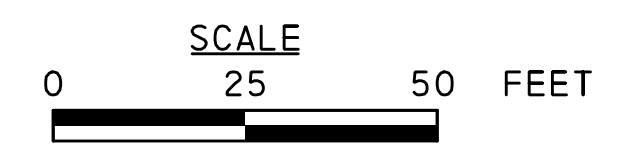
SEE SHEET 47

SEE SHEET 44



NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC
15

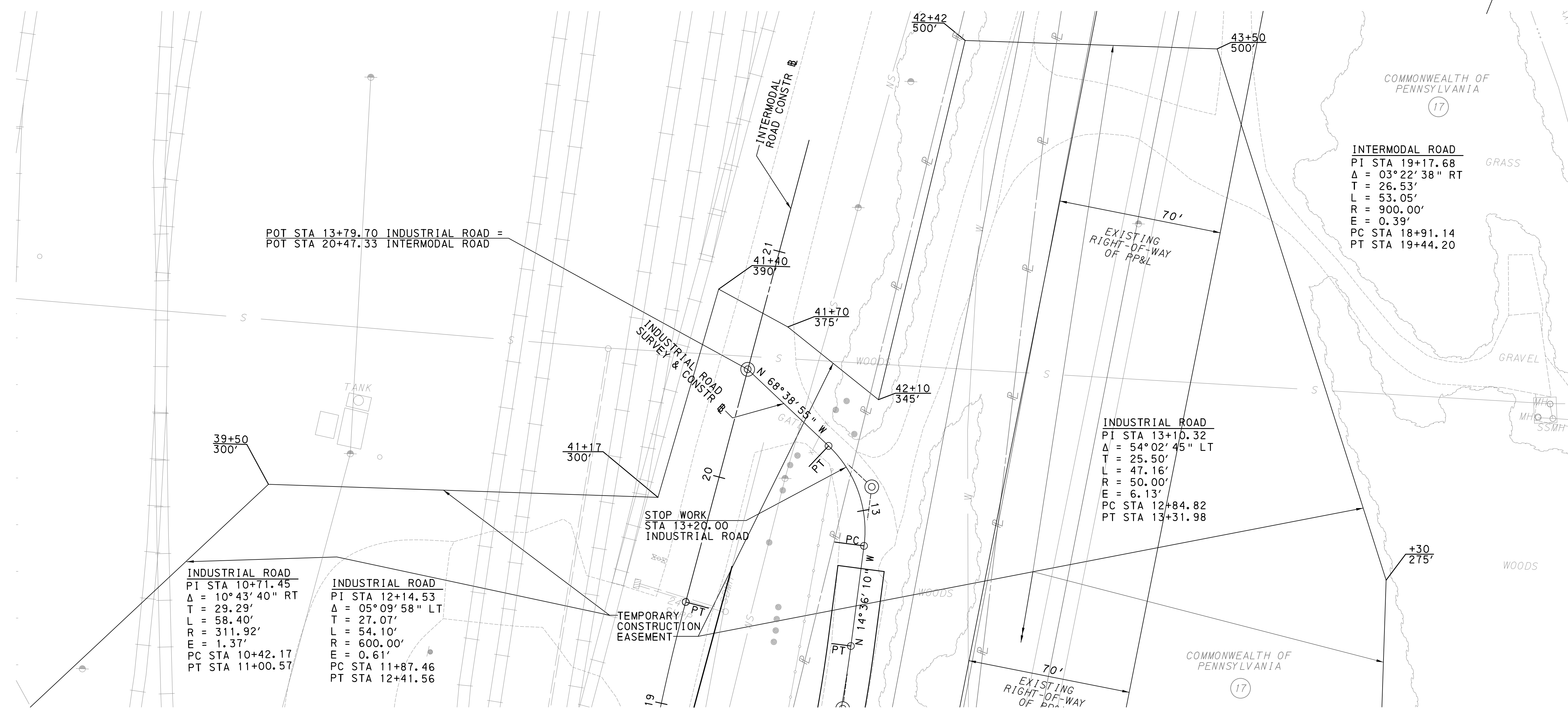
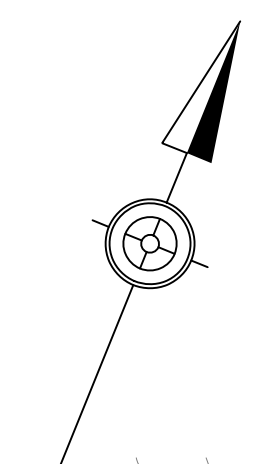
NORFOLK SOUTHERN RAILWAY COMPANY SUCCESSOR THROUGH MERGER WITH PENNSYLVANIA LINE, LLC
15



SURVEY BOOK NOS. 6848, 7001, 7270, 7271

DATE: 5/6/2026 TIME: 03:32 PM
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	46 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



INTERMODAL ROAD
 PI STA 19+17.68
 $\Delta = 03^{\circ}22'38''$ RT
 T = 26.53'
 L = 53.05'
 R = 900.00'
 E = 0.39'
 PC STA 18+91.14
 PT STA 19+44.20

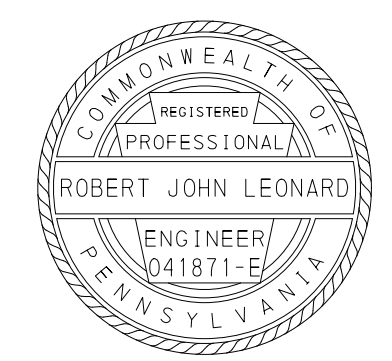
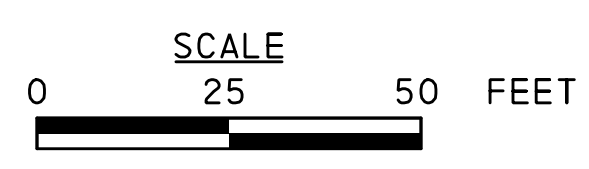
INDUSTRIAL ROAD
 PI STA 13+10.32
 $\Delta = 54^{\circ}02'45''$ LT
 T = 25.50'
 L = 47.16'
 R = 50.00'
 E = 6.13'
 PC STA 12+84.82
 PT STA 13+31.98

INDUSTRIAL ROAD
 PI STA 10+71.45
 $\Delta = 10^{\circ}43'40''$ RT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

INDUSTRIAL ROAD
 PI STA 12+14.53
 $\Delta = 05^{\circ}09'58''$ LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 11+87.46
 PT STA 12+41.56

SEE SHEET 44

SEE SHEET 47



SURVEY BOOK NOS. 6848, 7001
 7270, 7271

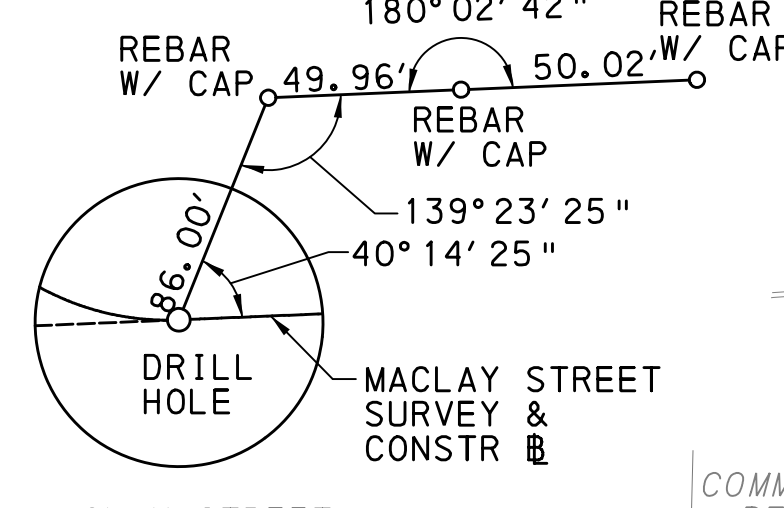
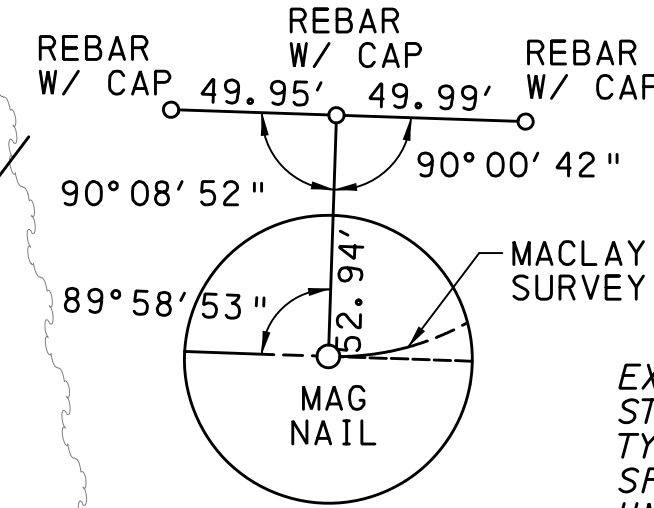
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	47 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SEE SHEET 46

HYDRAULIC DATA
 SR 3022 OVER PAXTON CREEK
 DRAINAGE AREA = 20.6 SQUARE MILES
 WATERWAY OPENING = 473 SQUARE FEET
 DESIGN FLOOD FREQUENCY 50 YEAR
 MAGNITUDE: 1237 CFS
 WATER SURFACE ELEV: 315.22 FT
 VELOCITY (FPS) 0.87
 FLOOD OF RECORD N/A

BM S17-005 ELEV 319.91
 47' LT STA 46+69
 SQ CUT IN NE WINGWALL
 OF CONC BRIDGE



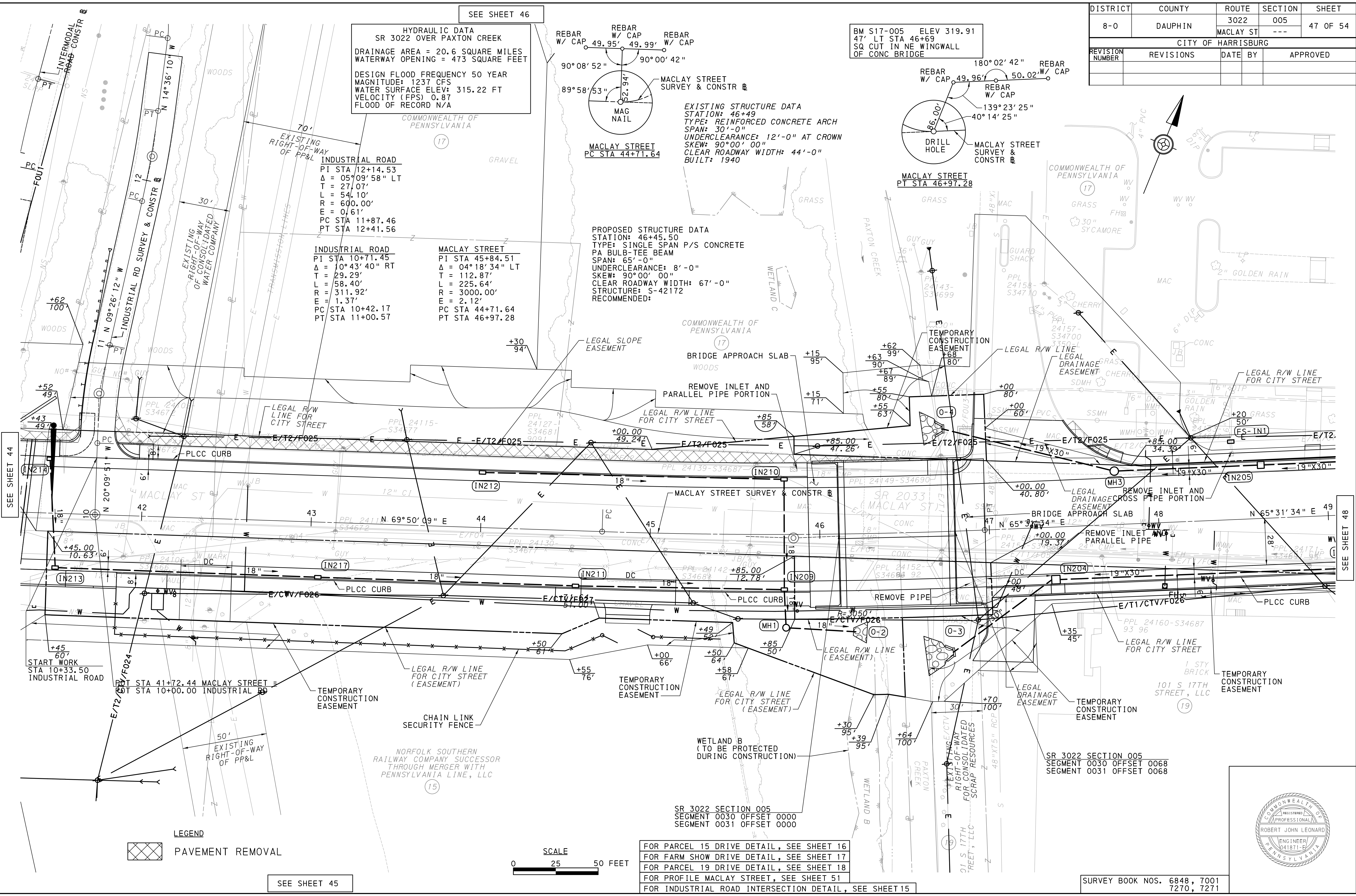
EXISTING STRUCTURE DATA
 STATION: 46+49
 TYPE: REINFORCED CONCRETE ARCH
 SPAN: 30'-0"
 UNDERCLEARANCE: 12'-0" AT CROWN
 SKEW: 90°00'00"
 CLEAR ROADWAY WIDTH: 44'-0"
 BUILT: 1940

PROPOSED STRUCTURE DATA
 STATION: 46+45.50
 TYPE: SINGLE SPAN P/S CONCRETE
 PA BULB-TEE BEAM
 SPAN: 65'-0"
 UNDERCLEARANCE: 8'-0"
 SKEW: 90°00'00"
 CLEAR ROADWAY WIDTH: 67'-0"
 STRUCTURE: S-42172
 RECOMMENDED:

INDUSTRIAL ROAD
 PI STA 12+14.53
 Δ = 05°09'58" LT
 T = 27.07'
 L = 54.10'
 R = 600.00'
 E = 0.61'
 PC STA 11+87.46
 PT STA 12+41.56

INDUSTRIAL ROAD
 PI STA 10+71.45
 Δ = 10°43'40" RT
 T = 29.29'
 L = 58.40'
 R = 311.92'
 E = 1.37'
 PC STA 10+42.17
 PT STA 11+00.57

MACLAY STREET
 PI STA 45+84.51
 Δ = 04°18'34" LT
 T = 112.87'
 L = 225.64'
 R = 3000.00'
 E = 2.12'
 PC STA 44+71.64
 PT STA 46+97.28

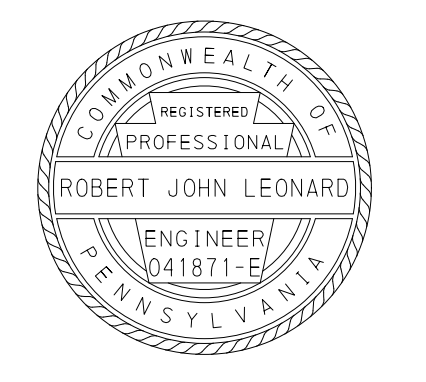


LEGEND
 PAVEMENT REMOVAL

SCALE
 0 25 50 FEET

FOR PARCEL 15 DRIVE DETAIL, SEE SHEET 16
 FOR FARM SHOW DRIVE DETAIL, SEE SHEET 17
 FOR PARCEL 19 DRIVE DETAIL, SEE SHEET 18
 FOR PROFILE MACLAY STREET, SEE SHEET 51
 FOR INDUSTRIAL ROAD INTERSECTION DETAIL, SEE SHEET 15

SURVEY BOOK NOS. 6848, 7001
 7270, 7271



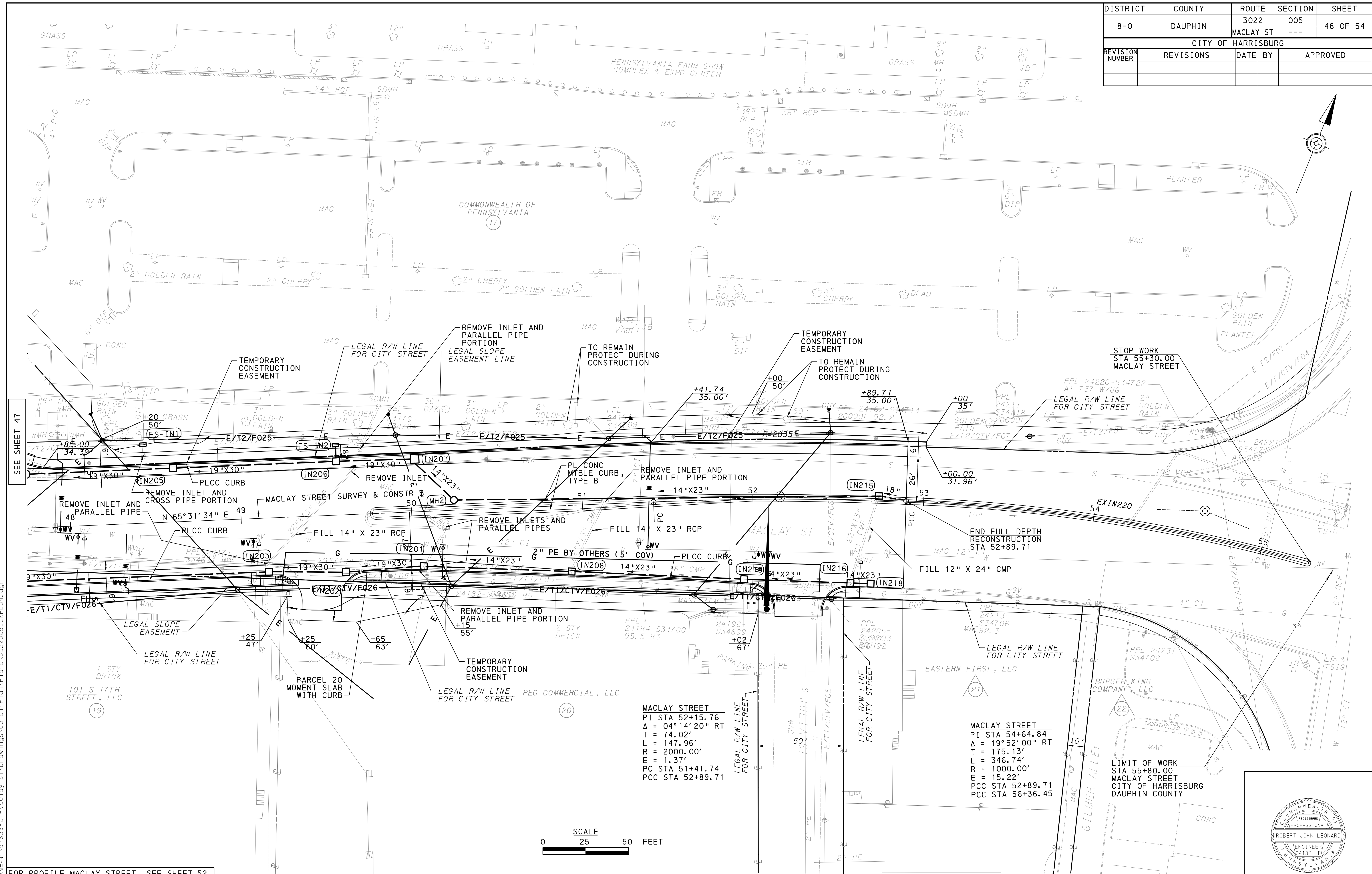
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SEE SHEET 45

SEE SHEET 44

SEE SHEET 48

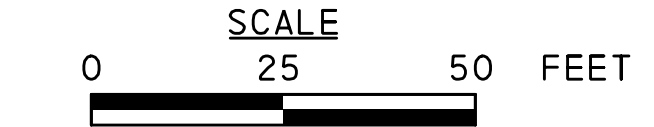
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	48 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



SEE SHEET 47

DATE: 5/6/2026 TIME: 03:34 PM
 FILENAME: S:\Drawings\Cons\17\lan\p\lan\3022005_CNPL04.dgn

FOR PROFILE MACLAY STREET, SEE SHEET 52
 FOR PARCEL 20 DRIVE DETAIL, SEE SHEET 19
 FOR JULIA STREET INTERSECTION DETAIL, SEE SHEET 20

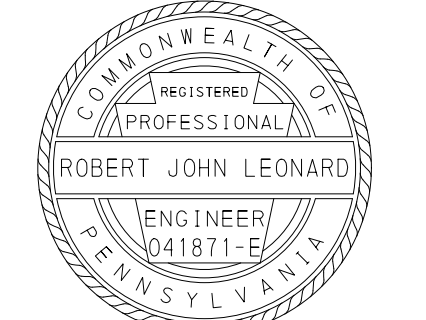


MACLAY STREET
 PI STA 52+15.76
 Δ = 04° 14' 20" RT
 T = 74.02'
 L = 147.96'
 R = 2000.00'
 E = 1.37'
 PC STA 51+41.74
 PCC STA 52+89.71

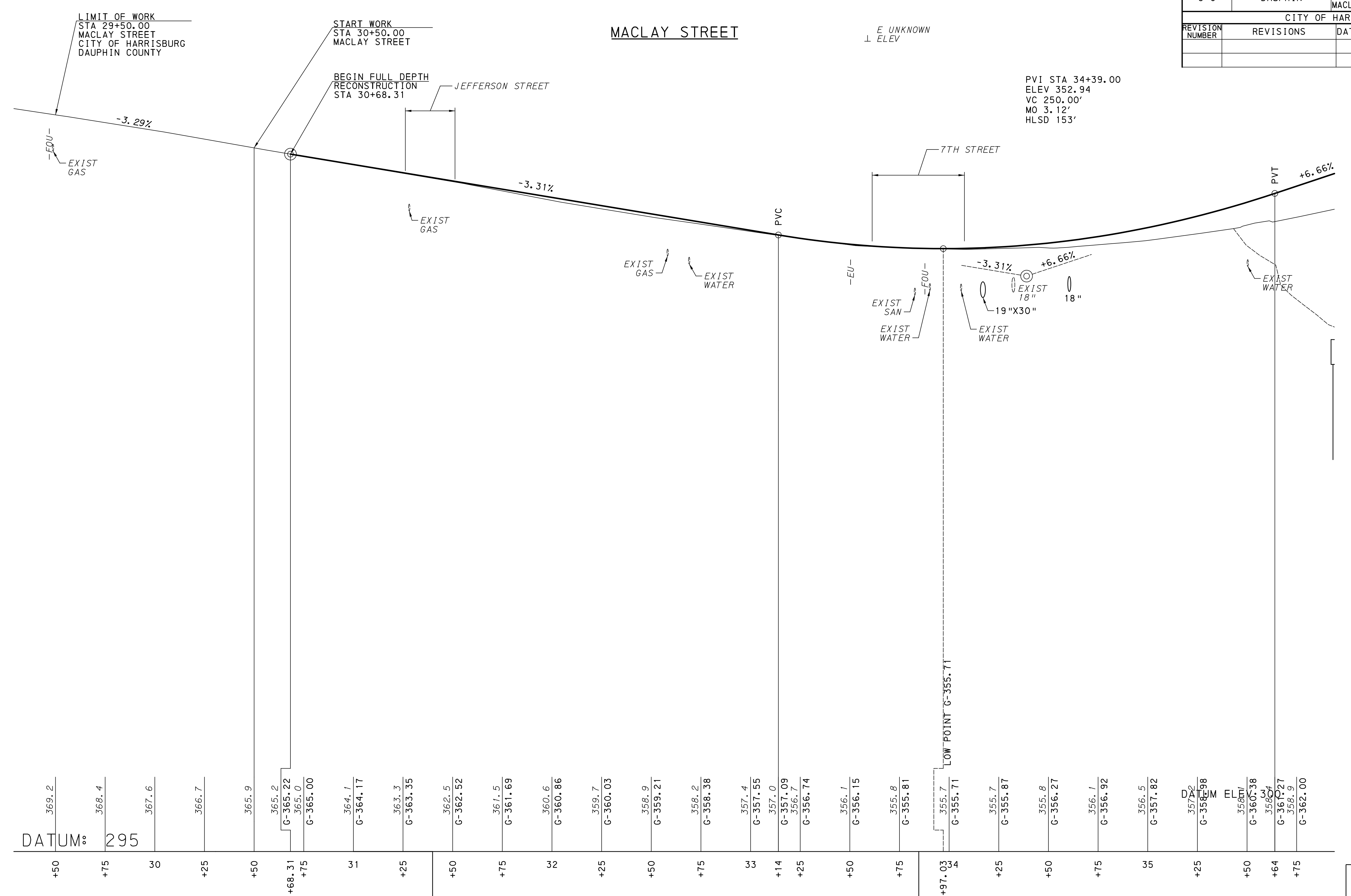
MACLAY STREET
 PI STA 54+64.84
 Δ = 19° 52' 00" RT
 T = 175.13'
 L = 346.74'
 R = 1000.00'
 E = 15.22'
 PC STA 52+89.71
 PCC STA 56+36.45

LIMIT OF WORK
 STA 55+80.00
 MACLAY STREET
 CITY OF HARRISBURG
 DAUPHIN COUNTY

SURVEY BOOK NOS. 6848, 7001
 7270, 7271



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	49 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

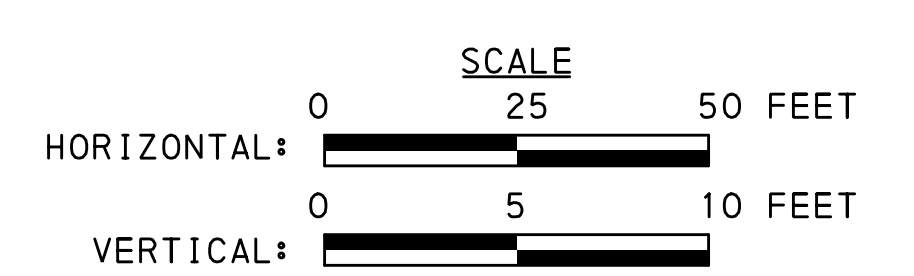


369.2	368.4	367.6	366.7	365.9	365.2	365.0	364.1	363.3	362.5	361.5	360.6	359.7	358.9	358.2	357.4	357.0	356.7	356.1	355.8	355.7	355.8	356.1	356.5	357.2	358.0	358.0	358.0	358.9	362.0
					G-365.22	G-365.00	G-364.17	G-363.35	G-362.52	G-361.69	G-360.86	G-360.03	G-359.21	G-358.38	G-357.55	G-357.09	G-356.74	G-356.15	G-355.81	G-355.71	G-355.87	G-356.27	G-356.92	G-357.82	G-358.98	G-358.00	G-360.38	G-361.27	G-362.00
+50	+75	30	+25	+50	+68.31	+75	31	+25	+50	+75	32	+25	+50	+75	33	+14	+25	+50	+75	+97.03	34	+25	+50	+75	35	+25	+50	+64	+75

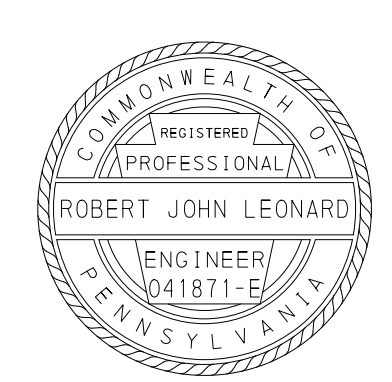
DATUM: 295

POC STA 31+39.88 MACLAY STREET =
POT STA 4+40.84 JEFFERSON STREET

POT STA 33+84.71 MACLAY STREET =
POT STA 69+86.99 7TH STREET



SEE SHEET 50



FOR PLAN, SEE SHEET 19

SURVEY BOOK NOS. 6848, 7001
7270, 7271

DATE: 5/6/2026 TIME: 03:36 PM
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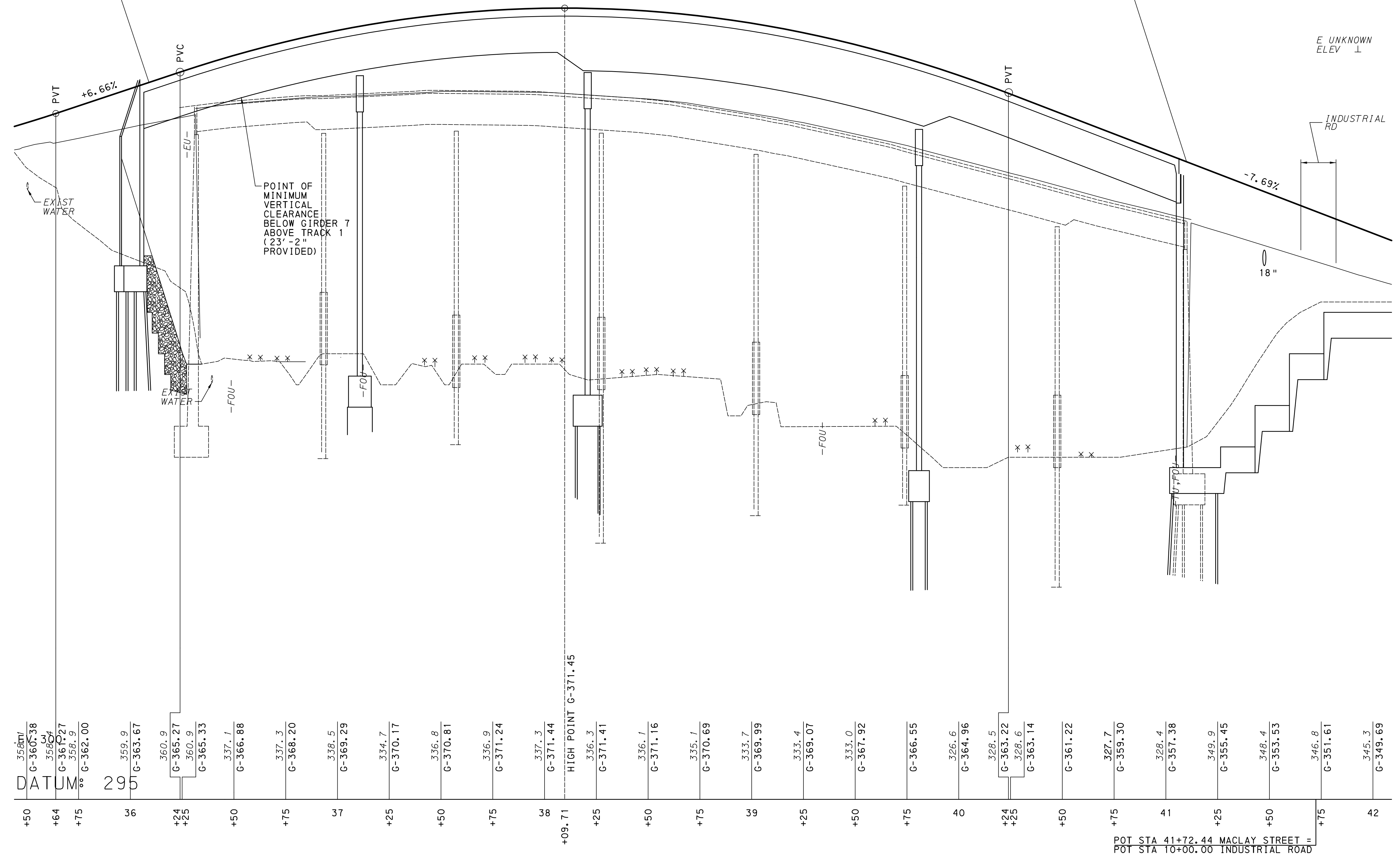
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	50 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SR 3022 SECTION 005
 SEGMENT 0022 OFFSET 0000
 SEGMENT 0023 OFFSET 0000

PVI STA 38+24.00
 ELEV 378.59
 VC 400.00'
 MO -7.17'
 SSD 245'

SR 3022 SECTION 005
 SEGMENT 0022 OFFSET 0501
 SEGMENT 0023 OFFSET 0501

MACLAY STREET

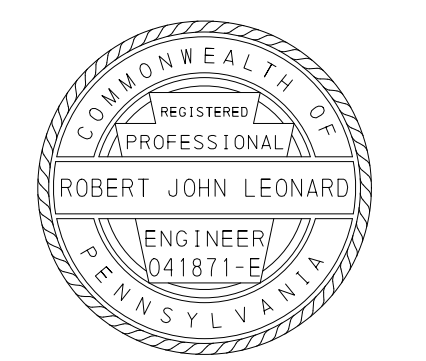


+50	355.8m/	G-360.38
+64	358.4	G-361.27
+75	358.9	G-362.00
36	359.9	G-363.67
+24	360.9	G-365.27
+25	360.9	G-365.33
+50	337.1	G-366.88
+75	337.3	G-368.20
37	338.5	G-369.29
+25	334.7	G-370.17
+50	336.8	G-370.81
+75	336.9	G-371.24
38	337.3	G-371.44
+09.71		HIGH POINT G-371.45
+25	336.3	G-371.41
+50	336.1	G-371.16
+75	335.1	G-370.69
39	333.7	G-369.99
+25	333.4	G-369.07
+50	333.0	G-367.92
+75		G-366.55
40	326.6	G-364.96
+24	328.5	G-363.22
+25	328.6	G-363.14
+50		G-361.22
+75	327.7	G-359.30
41	328.4	G-357.38
+25	349.9	G-355.45
+50	348.4	G-353.53
+75	346.8	G-351.61
42	345.3	G-349.69

POT STA 41+72.44 MACLAY STREET =
 POT STA 10+00.00 INDUSTRIAL ROAD

SEE SHEET 49

SEE SHEET 51



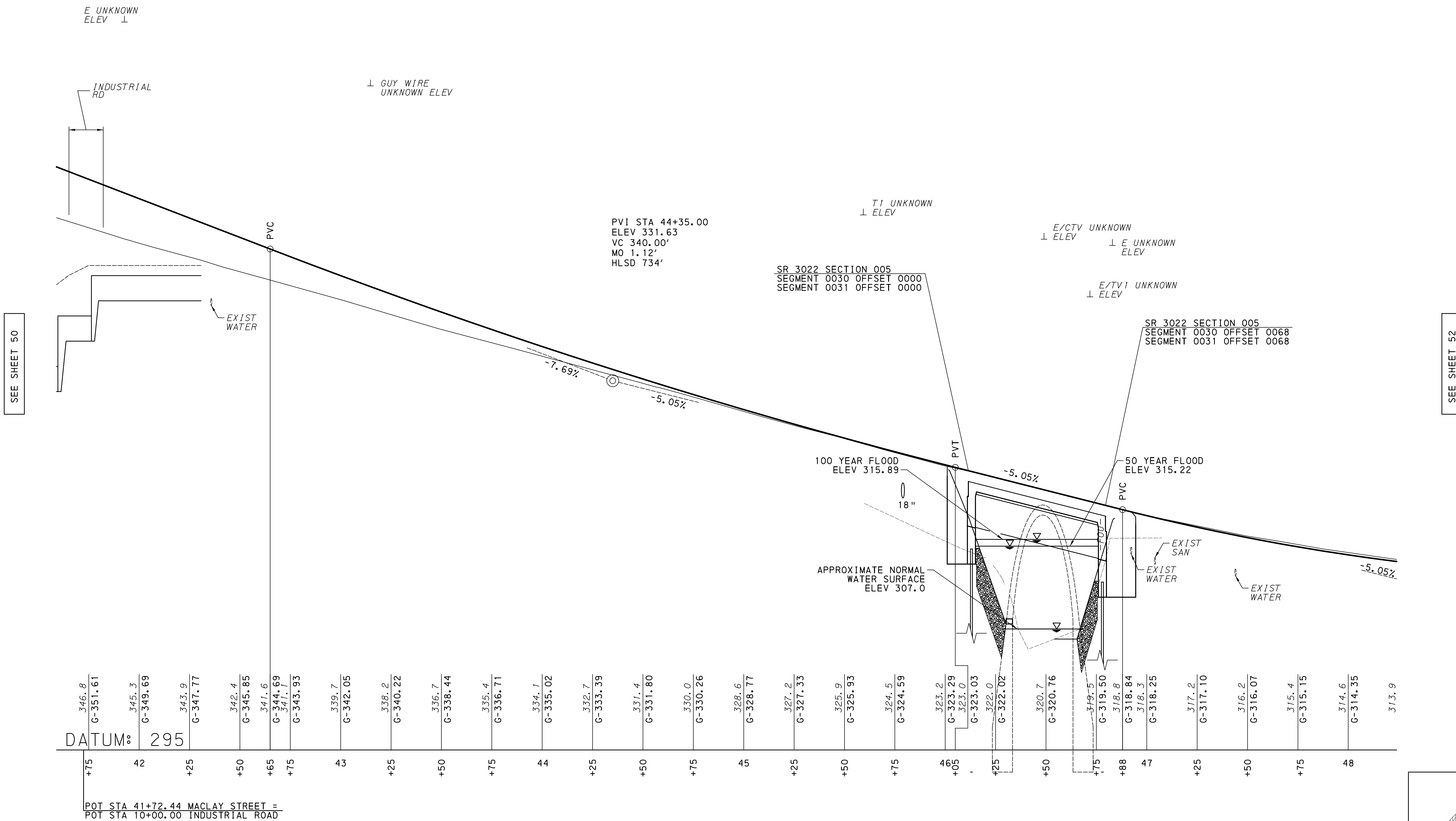
FOR PLAN, SEE SHEET 44

SURVEY BOOK NOS. 6848, 7001, 7270, 7271

DATE: 5/6/2026 TIME: 03:37 PM
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	51 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

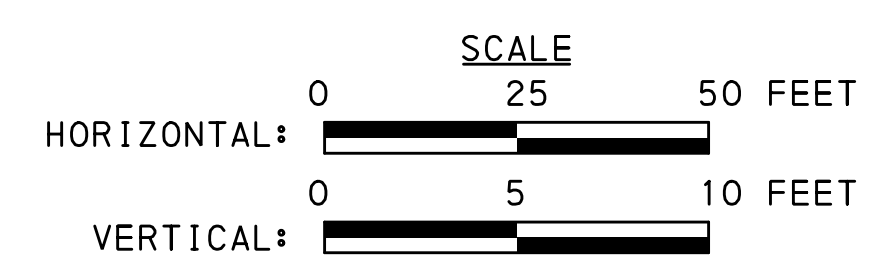
MACLAY STREET



346.8	345.3	343.9	342.4	341.6	339.7	338.2	336.7	335.4	334.1	332.7	331.4	330.0	328.6	327.2	325.9	324.5	323.2	323.0	323.0	322.0	320.7	319.5	318.8	318.3	318.2	316.2	315.4	314.6	313.9
G-351.61	G-349.69	G-347.77	G-345.85	G-344.69	G-342.05	G-340.22	G-338.44	G-336.71	G-335.02	G-333.39	G-331.80	G-330.26	G-328.77	G-327.33	G-325.93	G-324.59	G-323.29	G-323.03	G-322.02	G-320.76	G-319.50	G-318.84	G-318.3	G-318.25	G-317.10	G-316.07	G-315.15	G-314.35	
+75	42	+25	+50	+65	+75	43	+25	+50	+75	44	+25	+50	+75	45	+25	+50	+75	46	+05	+25	+50	+75	+88	47	+25	+50	+75	48	

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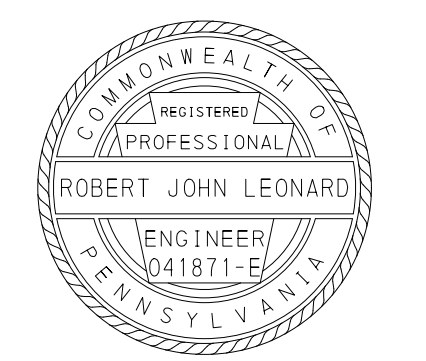
POT STA 41+72.44 MACLAY STREET =
POT STA 10+00.00 INDUSTRIAL ROAD



SEE SHEET 50

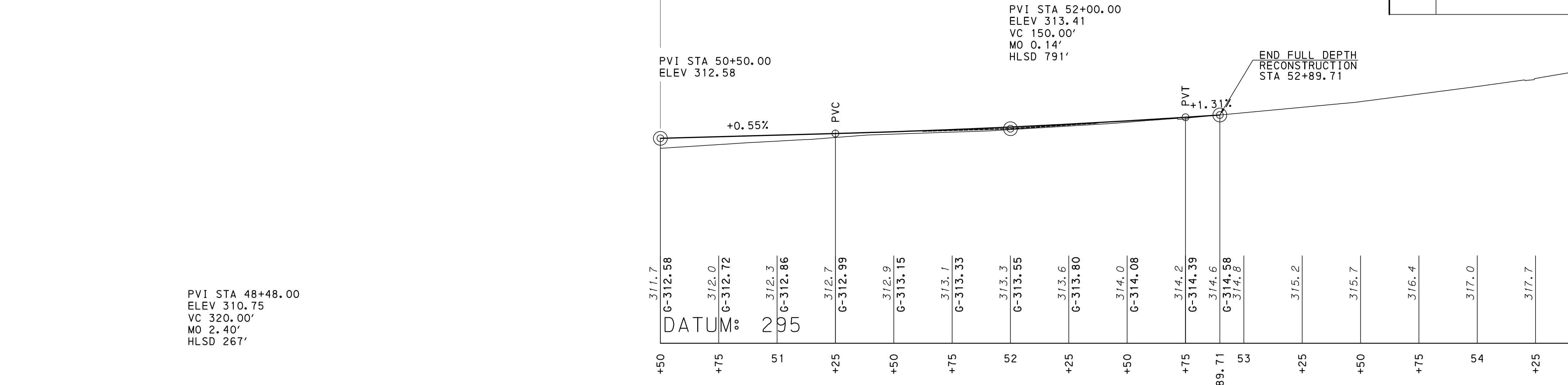
SEE SHEET 52

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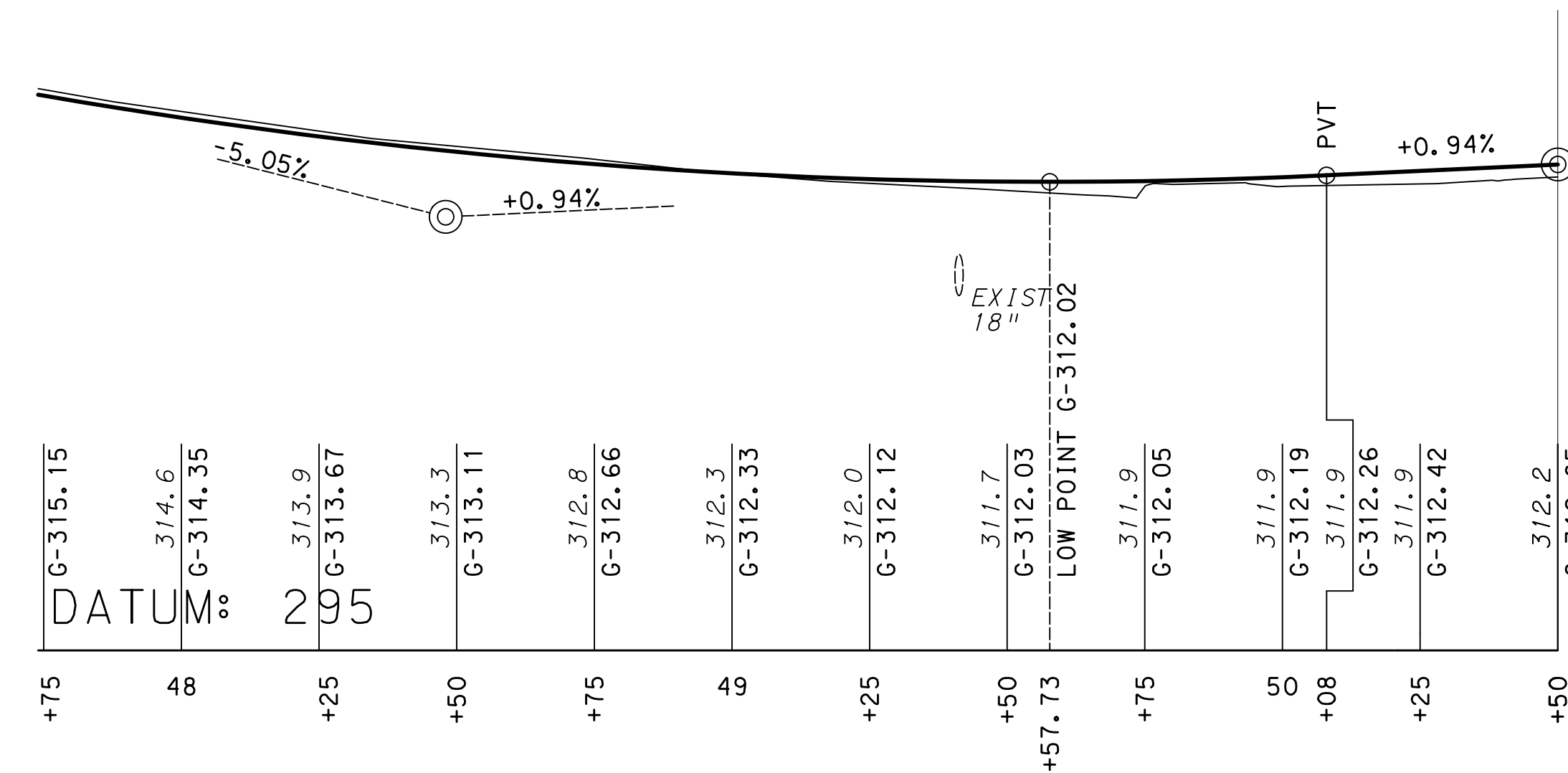


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022	005	52 OF 54
		MACLAY ST	---	
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

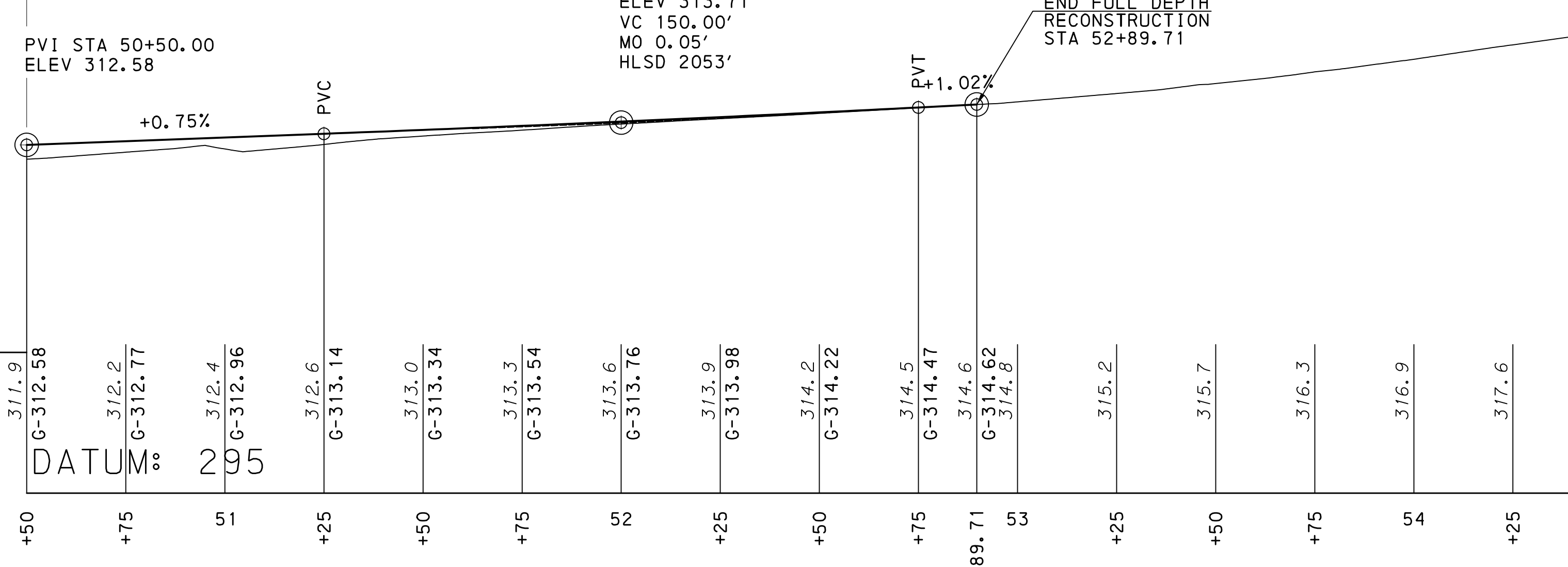
MACLAY STREET WESTBOUND



SEE SHEET 51



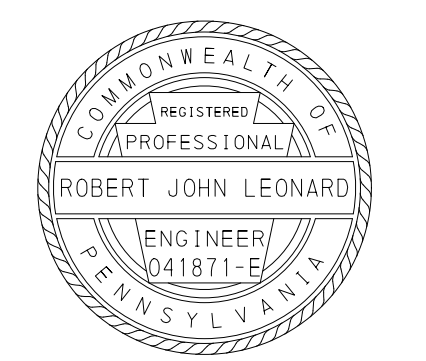
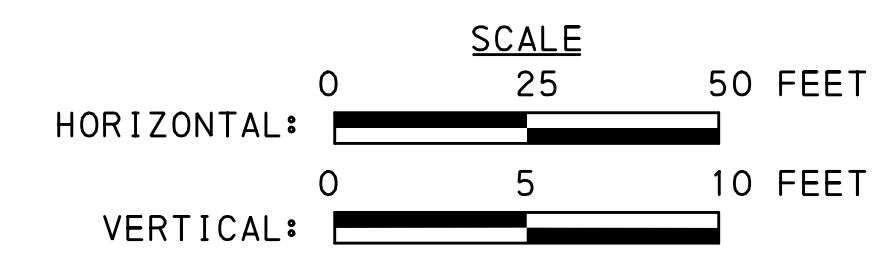
MACLAY STREET EASTBOUND



LIMIT OF WORK
STA 55+80.00
MACLAY STREET
CITY OF HARRISBURG
DAUPHIN COUNTY

STOP WORK
STA 55+30.00
MACLAY STREET

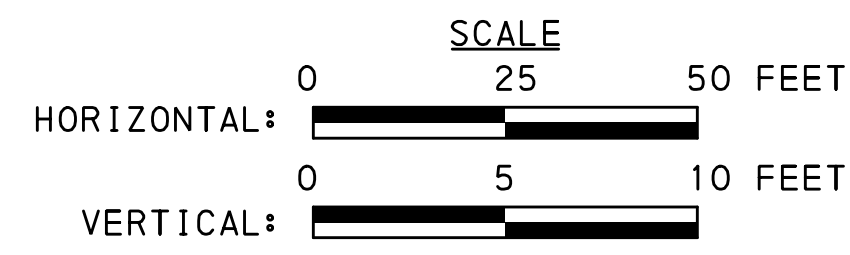
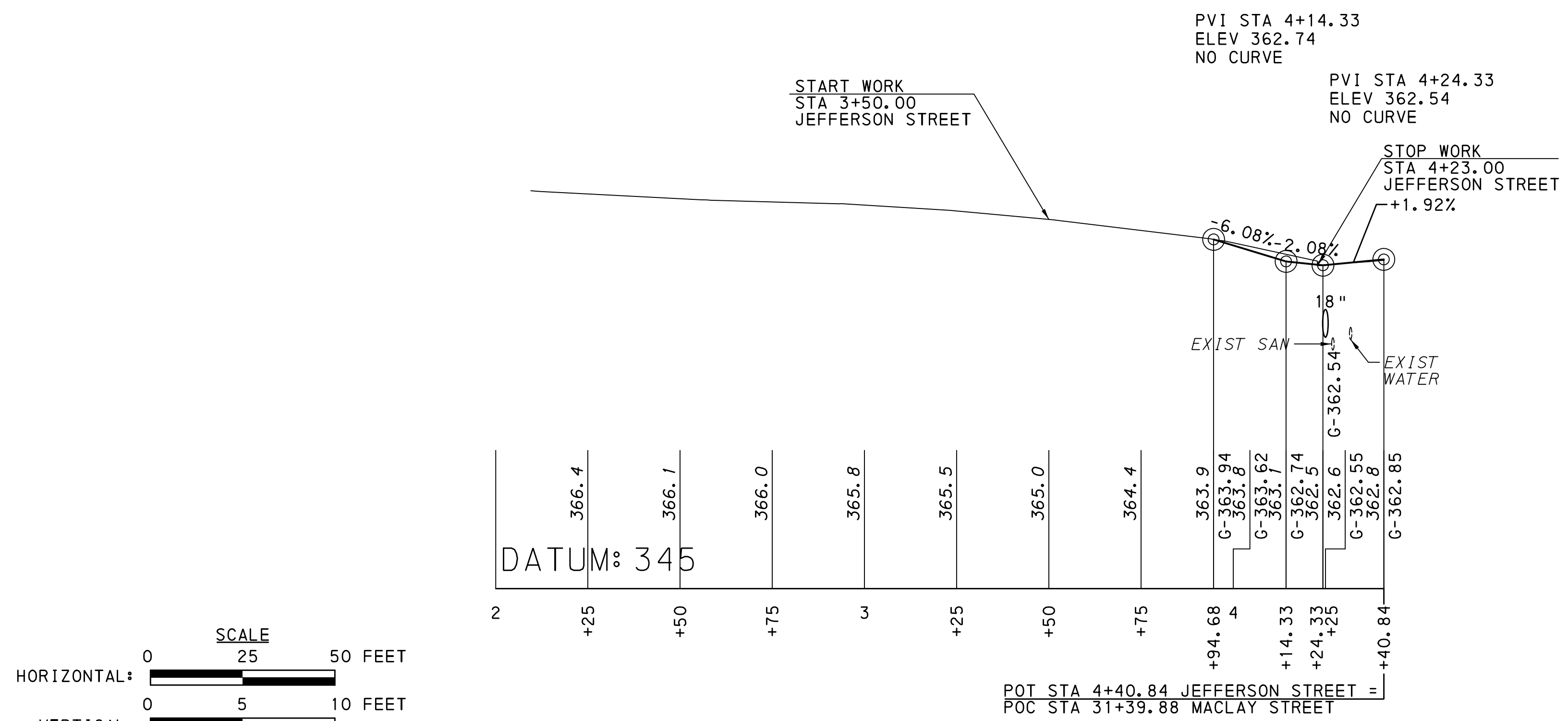
SIGN WIRE UNKNOWN ± ELEV
E/CTV/F06 UNKNOWN ELEV



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	53 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

JEFFERSON STREET

E/T2/CTV/F01
UNKNOWN ELEV



FOR PLAN, SEE SHEET 43

7TH STREET

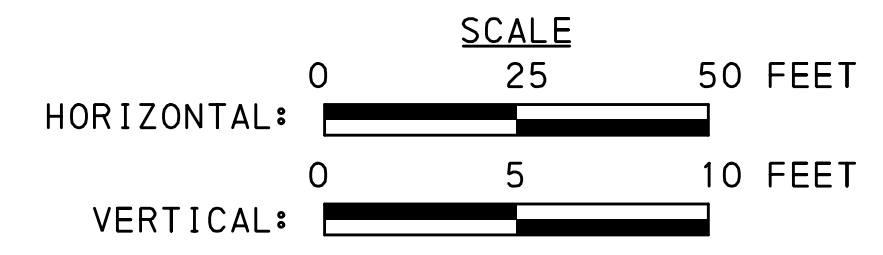
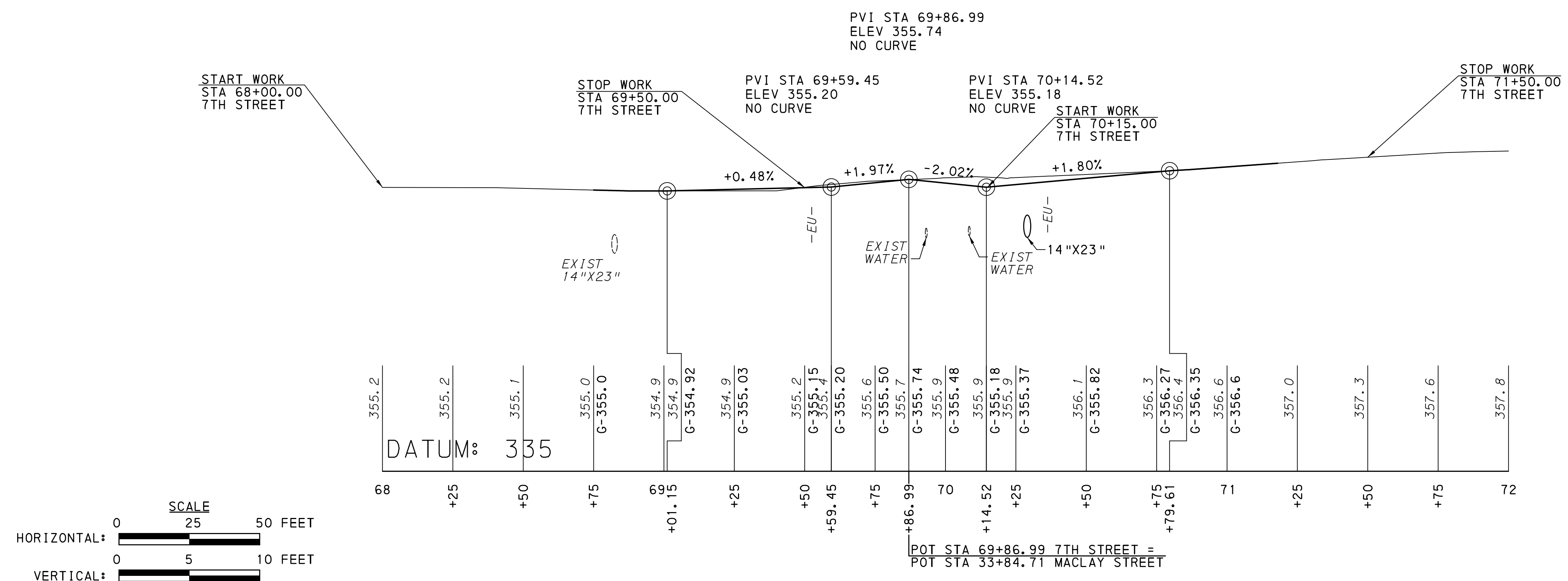
E/T1 UNKNOWN
ELEV

E/F04 UNKNOWN
ELEV

E/T1/T2/CTV UNKNOWN
ELEV

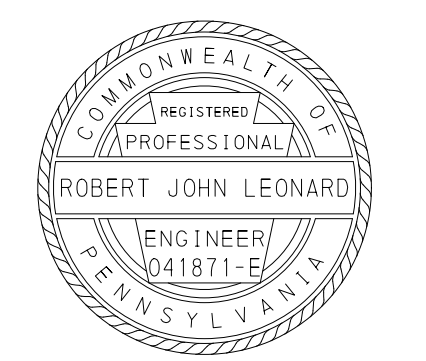
E/T2/CTV/F02 UNKNOWN
ELEV

E UNKNOWN
ELEV



FOR PLAN, SEE SHEET 43

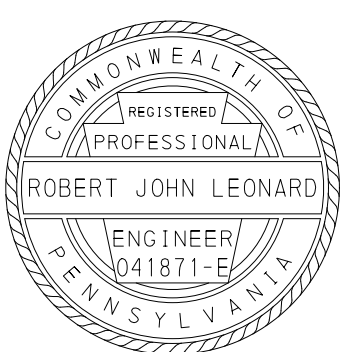
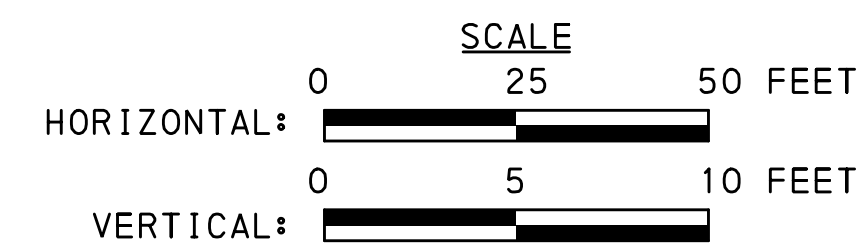
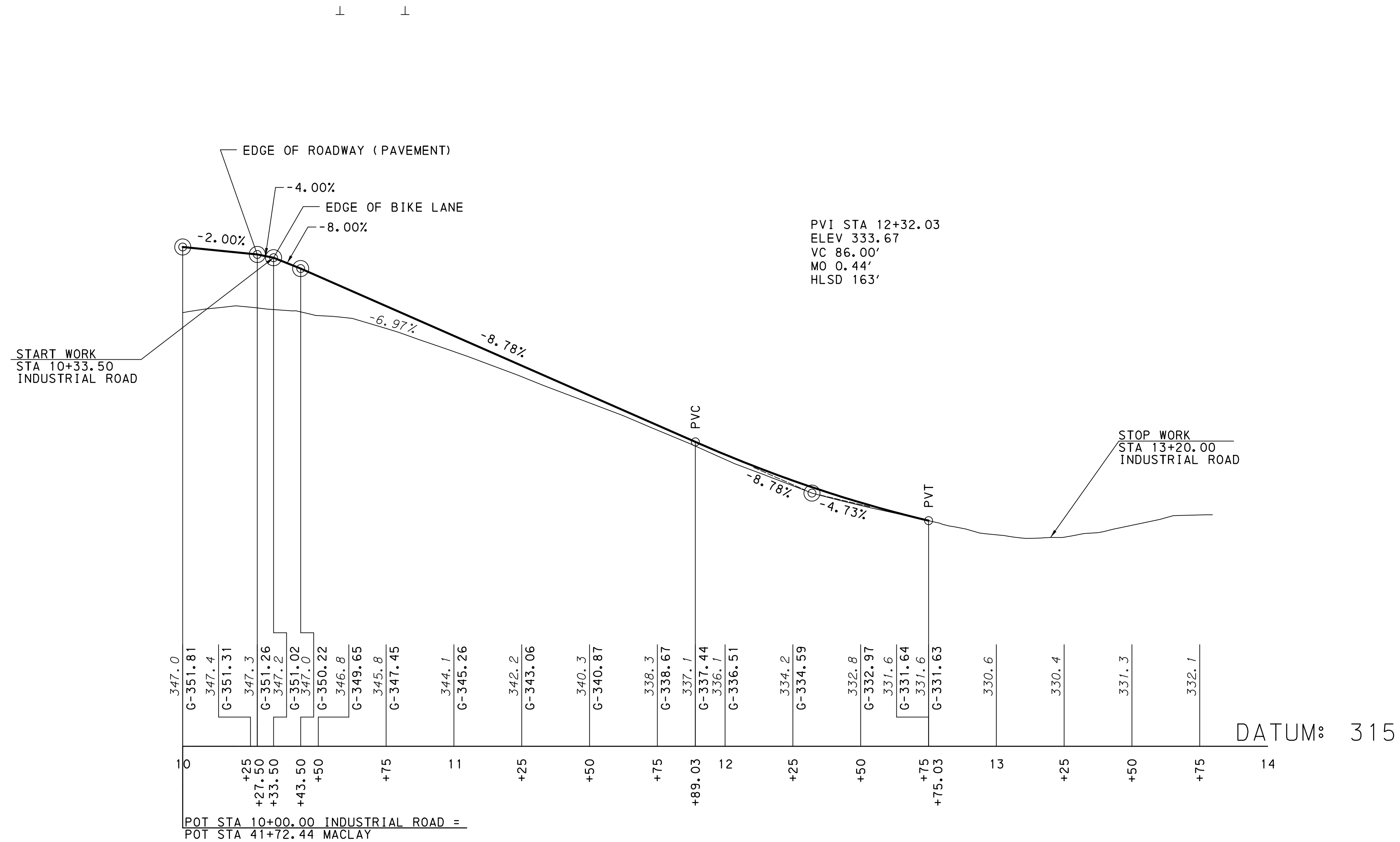
SURVEY BOOK NOS. 6848, 7001
7270, 7271



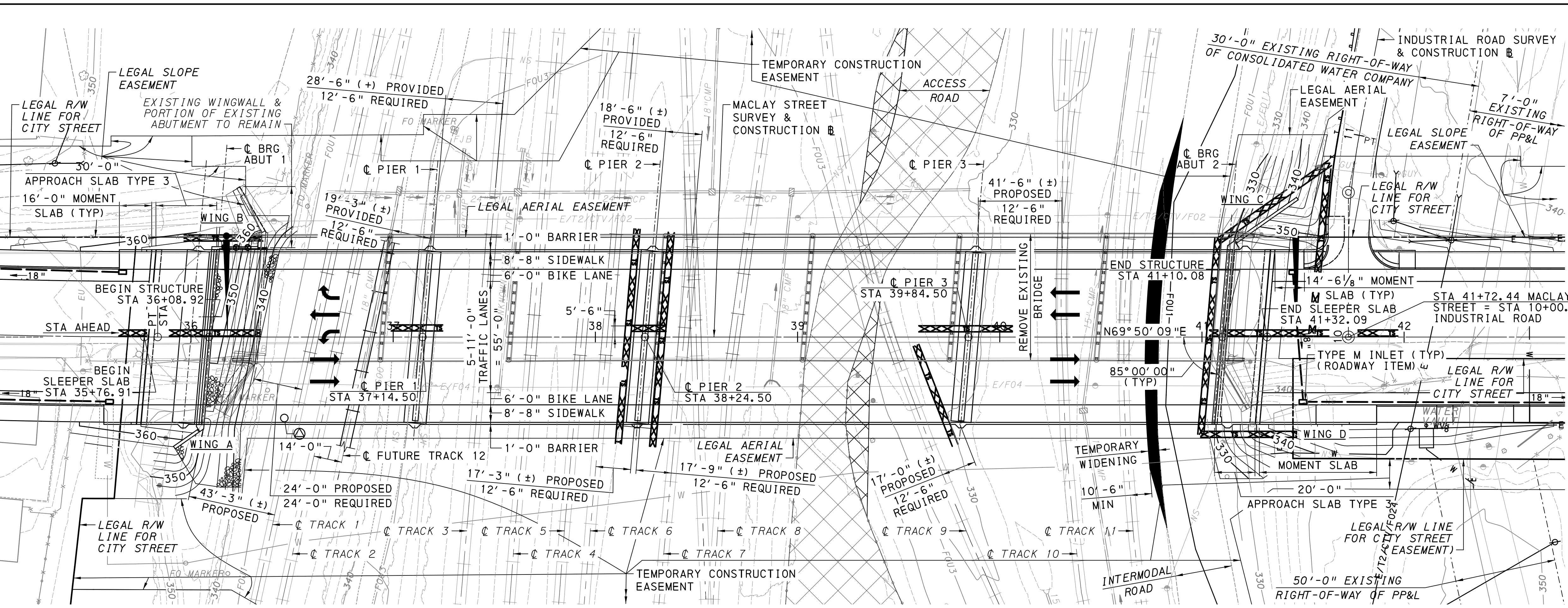
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	DAUPHIN	3022 MACLAY ST	005 ---	54 OF 54
CITY OF HARRISBURG				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

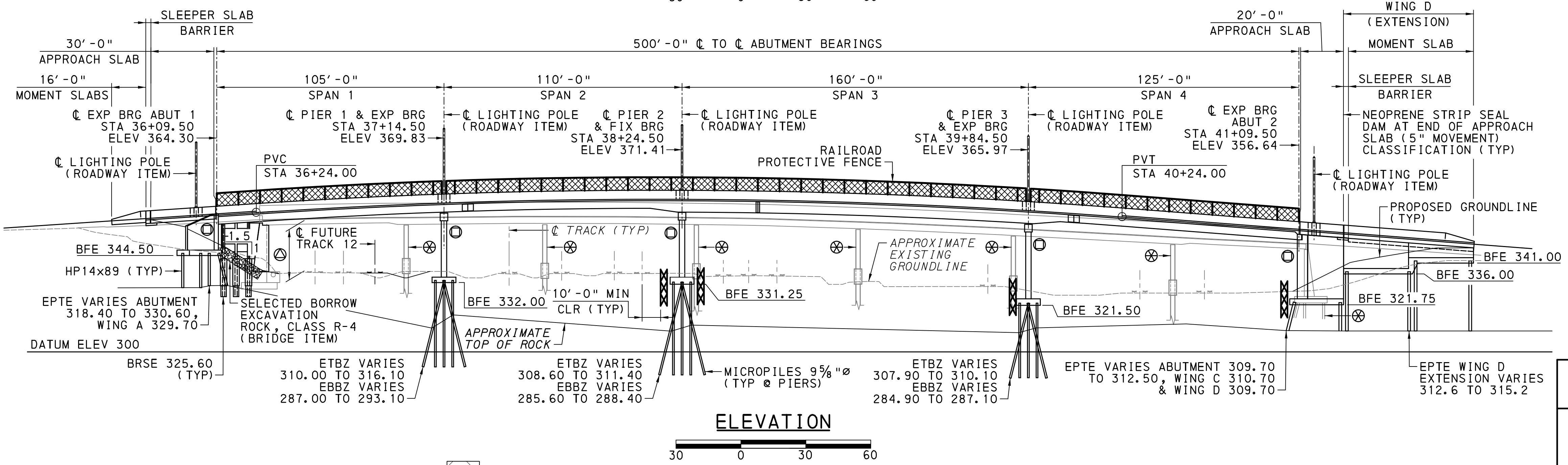
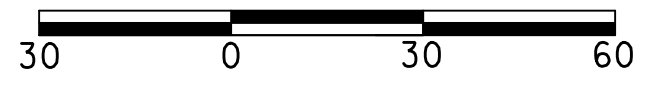
INDUSTRIAL ROAD



FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Incl\3022005-GP.dgn
 DATE: 5/14/2026 TIME: 1:35:09 PM



PLAN



ELEVATION

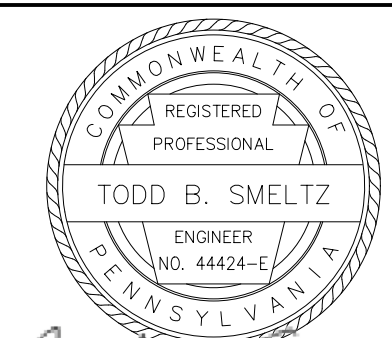
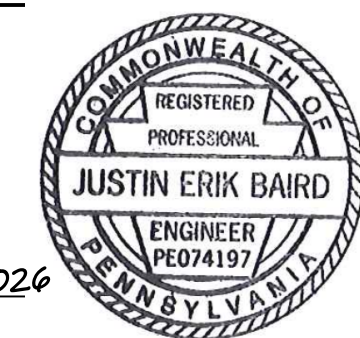


- LEGEND**
- APPROXIMATE LIMITS OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
 - DENOTES DIRECTION OF TRAFFIC
 - LAMINATED NEOPRENE BEARING PADS
 - REMOVE PORTION OF EXISTING ABUTMENT/PIER AND EXISTING PILES TO MINIMUM 2'-0" BELOW FINISHED GROUND LINE OR TO MINIMUM 1'-0" BELOW PROPOSED BOTTOM OF FOOTING. EXTRACT EXISTING PILES THAT CONFLICT WITH PROPOSED PILES.
 - ACCESS ROAD 1
 - MODIFIED AREAS OF ACCESS ROAD 1
 - TEMPORARY INTERMODAL ROAD WIDENING
 - SELECTED BORROW EXCAVATION, CLASS R-4 (BRIDGE ITEM)

- ACCESS ROAD 1
- MODIFIED AREAS OF ACCESS ROAD 1
- TEMPORARY INTERMODAL ROAD WIDENING
- SELECTED BORROW EXCAVATION, CLASS R-4 (BRIDGE ITEM)

DESIGN REVIEWED BY:
 MICHAEL BAKER INTERNATIONAL
 4431 NORTH FRONT STREET
 HARRISBURG, PA 17110

Justin Erik Baird 05/14/2026
 SIGNATURE AND DATE



PREPARED BY
 ERDMAN ANTHONY
 ONE STERLING PLACE
 100 STERLING PARKWAY, SUITE 212
 MECHANICSBURG, PA 17050-2903

Todd B. Smeltz
 SIGNATURE
 May 14, 2026
 DATE

ERDMAN ANTHONY

PI STA 34+98.85
 Δ = 03°14'11" LT
 D = 01°54'35"
 T = 84.75'
 L = 169.46'
 R = 3000.00'
 PC STA 34+14.10
 PT STA 35+83.55

PT STA = 35+83.55
 PC STA = 44+71.64
 BEARING = N69°50'09"E

MACLAY STREET HORIZONTAL ALIGNMENT

+6.66% -7.69%

PVI STA = 38+24.00
 PVI ELEV = 378.59
 VC = 400'
 MO = -7.17'

MACLAY STREET VERTICAL ALIGNMENT

MINIMUM VERTICAL CLEARANCE			
TRACK 1	23'-2" ◊	TRACK 8	27'-1" ▲
TRACK 2	24'-3" ◊	TRACK 9	26'-11" ▲
TRACK 3	27'-4" ◊	TRACK 10	27'-1" ▲
TRACK 4	27'-7" ◊	TRACK 11	25'-6" ▲
TRACK 5	27'-6" ▲	ACCESS ROAD	26'-6" ▲
TRACK 6	27'-3" ▲	EXISTING	21'-0"
TRACK 7	26'-9" ▲		

VERTICAL CLEARANCE MEASURED FROM TOP OF HIGH RAIL TO LOW POINT OF STRUCTURE AND MEASURED FROM A POINT OFFSET 6'-0" FROM THE CENTERLINE OF TRACK.

- ▲ INDICATES MINIMUM VERTICAL CLEARANCE OCCURS BELOW GIRDER 1 (ALONG NORTH SIDE OF STRUCTURE).
- ◊ INDICATES MINIMUM VERTICAL CLEARANCE OCCURS BELOW GIRDER 7 (ALONG SOUTH SIDE OF STRUCTURE).
- ⊙ INDICATES CONTROLLING MINIMUM VERTICAL CLEARANCE OCCURS WITHIN SPAN 1 BELOW GIRDER 7 ABOVE TRACK 1.

NOTES

1. FOR SUPPLEMENTAL DRAWINGS LIST, SEE SHEET 2.
2. FOR INDEX OF DRAWINGS, SEE SHEET 2.
3. FOR GENERAL NOTES, SEE SHEETS 3 AND 4.
4. FOR QUANTITIES, SEE SHEETS 6 & 7.
6. FOR TYPICAL SECTION, SEE SHEET 8.
7. FOR INDUSTRIAL ROAD SURVEY AND CONSTRUCTION BASELINE GEOMETRY SEE CONSTRUCTION PLANS.
8. FOR MINIMUM ALLOWABLE TEMPORARY CLEARANCES TO RAILROAD TRACKS SEE SHEETS 84 & 85.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

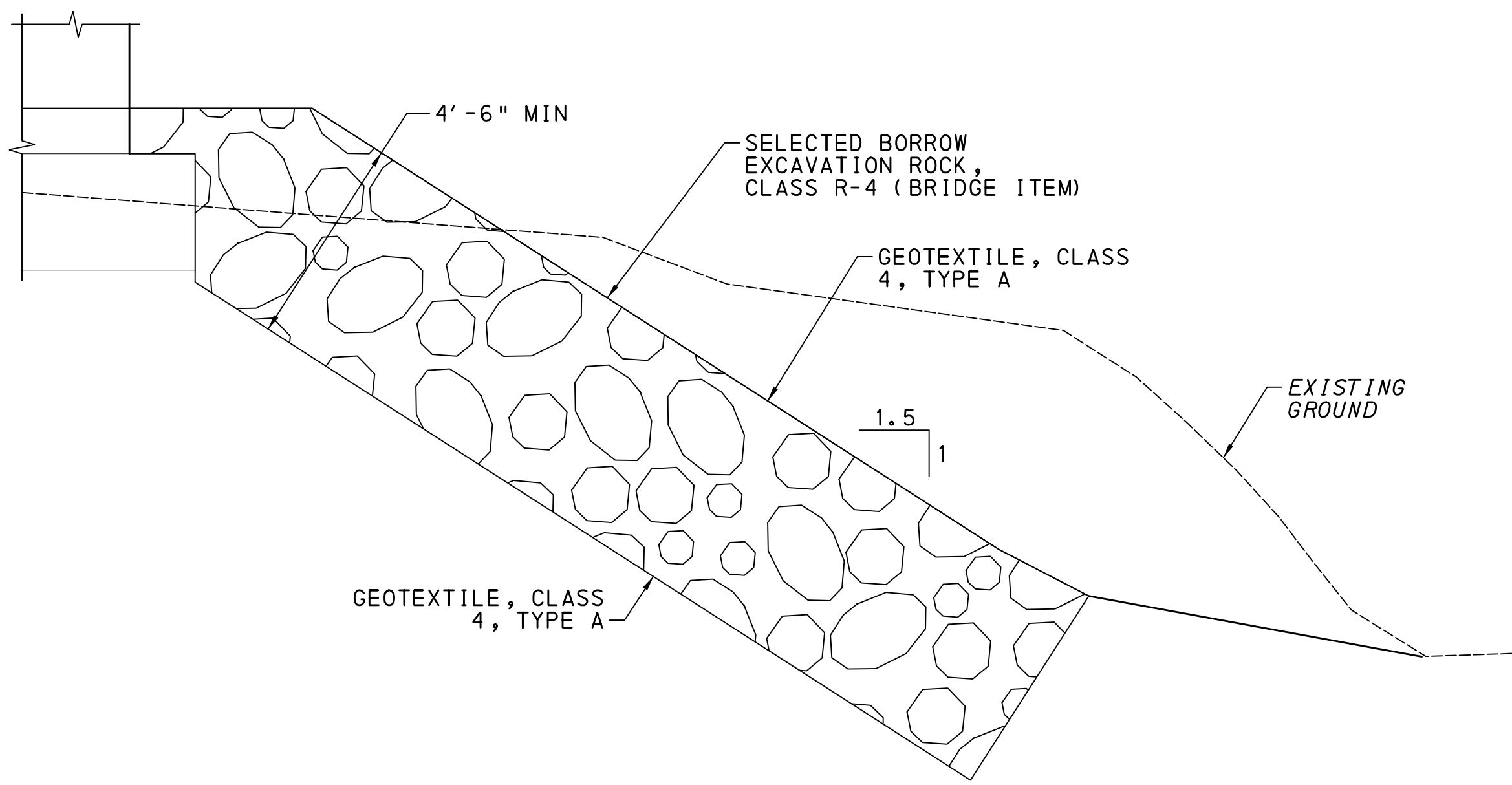
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE GENERAL PLAN & ELEVATION

RECOMMENDED 2026.05.15
Derek Mitch
 DISTRICT BRIDGE ENGINEER

SHEET 1 OF 97
 & SUPPLEMENTAL DRAWINGS
 S-42336

INDEX OF DRAWINGS			
1	GENERAL PLAN & ELEVATION	44	WING D (EXTENSION) DETAILS
2	INDEX OF DRAWINGS & RATING TABLES	45	ABUTMENT 2 REINFORCEMENT BAR SCHEDULE - 1
3	GENERAL NOTES - 1	46	ABUTMENT 2 REINFORCEMENT BAR SCHEDULE - 2
4	GENERAL NOTES - 2	47	FRAMING PLAN - 1
5	MICROPILE DETAILS	48	FRAMING PLAN - 2
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ABUTMENT 1 SLOPE REINFORCEMENT DETAIL
NOT TO SCALE

BRIDGE LOAD RATINGS (WITH FWS)

CURRENT ADTT= 752 (2025) DESIGN YEAR ADTT= 797 (2045)								
		COMPOSITE STEEL PLATE GIRDER, @ GIRDER 1						
		H20	HS20	ML80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	1.05	1.05	1.105	1.105	1.101	-	-
	LOCATION (FT)	18.583	18.583	42	42	105	-	-
	LIMIT STATE	STR-I	STR-I	SERV-II	SERV-II	SERV-II	-	-
	RATING FACTOR	1.66 M	1.66 M	1.53 M	1.51 M	1.02 M	-	-
	RESISTANCE	-13220 K-FT	-13220 K-FT	47.5 KSI	47.5 KSI	-47.5 KSI	-	-
	SPAN #	SPAN 4	SPAN 4	SPAN 1	SPAN 1	SPAN 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	1.05	1.05	1.105	1.105	1.101	1.105	1.101
	LOCATION (FT)	18.583	18.583	42	42	105	42	105
	LIMIT STATE	STR-II	STR-II	SERV-IIA	SERV-IIA	SERV-IIA	SERV-IIB	SERV-IIB
	RATING FACTOR	2.15 M	2.15 M	1.98 M	1.96 M	1.33 M	1.13 M	1.01 M
	RESISTANCE	-13220 K-FT	-13220 K-FT	47.5 KSI	47.5 KSI	-47.5 KSI	47.5 KSI	-47.5 KSI
	SPAN #	SPAN 4	SPAN 4	SPAN 1	SPAN 1	SPAN 1	SPAN 1	SPAN 1

BRIDGE LOAD RATINGS (WITHOUT FWS)

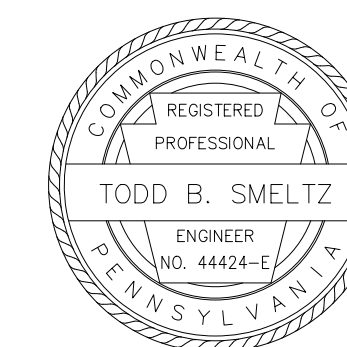
CURRENT ADTT= 752 (2025) DESIGN YEAR ADTT= 797 (2045)								
		COMPOSITE STEEL PLATE GIRDER, @ GIRDER 1						
		H20	HS20	ML80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	1.101	1.101	1.105	1.105	1.101	-	-
	LOCATION (FT)	105	105	42	42	105	-	-
	LIMIT STATE	SERV-II	SERV-II	SERV-II	SERV-II	SERV-II	-	-
	RATING FACTOR	1.82 M	1.82 M	1.65 M	1.63 M	1.12 M	-	-
	RESISTANCE	-47.5 KSI	-47.5 KSI	47.5 KSI	47.5 KSI	-47.5 KSI	-	-
	SPAN #	SPAN 1	SPAN 1	SPAN 1	SPAN 1	SPAN 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	1.101	1.101	1.105	1.105	1.101	1.105	1.101
	LOCATION (FT)	105	105	42	42	105	42	105
	LIMIT STATE	SERV-IIA	SERV-IIA	SERV-IIA	SERV-IIA	SERV-IIA	SERV-IIB	SERV-IIB
	RATING FACTOR	2.36 M	2.36 M	2.14 M	2.11 M	1.46 M	1.22 M	1.10 M
	RESISTANCE	-47.5 KSI	-47.5 KSI	47.5 KSI	47.5 KSI	-47.5 KSI	47.5 KSI	-47.5 KSI
	SPAN #	SPAN 1	SPAN 1	SPAN 1	SPAN 1	SPAN 1	SPAN 1	SPAN 1

RATING TABLE NOTES

CRITICAL MEMBER
 MAXIMUM FACTORED FLEXURAL RESISTANCE (KIP-FT) 13362.94 GIRDER 1
 LOCATION (FT) 85.00 SPAN LENGTH (FT) 105.00
 MAXIMUM FACTORED SHEAR RESISTANCE (KIP) 683.24
 LOCATION (FT) 0.00
 "M", "S" & "VM" DENOTE THAT MOMENT, SHEAR AND SHEAR/MOMENT INTERACTION CONTROL THE RATING FACTOR, RESPECTIVELY.
 GIVEN DISTRIBUTION FACTOR IS THE VEHICULAR LOAD DISTRIBUTION FACTOR USED TO PRODUCE THE GIVEN RATING.
 FOR THE STR-IP LIMIT STATE, THE VEHICULAR LIVE LOAD DISTRIBUTION FACTOR ACCOUNTS FOR THE PRESENCE OF PEDESTRAIN LOADS IF APPLICABLE.

SUPPLEMENTAL DRAWINGS

DESCRIPTION	DWG NO	RECM'D DATE
PROTECTIVE FENCE	BC-701M	11-23-22
TEMPORARY CONCRETE BARRIER, STRUCTURE MOUNTED	BC-719M	03-27-24
ELECTRICAL DETAILS	BC-721M	02-19-21
LIGHTING POLE ANCHORAGE	BC-722M	02-19-21
PERMANENT METAL DECK FORMS	BC-732M	11-23-22
ANCHOR SYSTEMS	BC-734M	02-19-21
WALL CONSTRUCTION AND EXPANSION JOINT DETAILS	BC-735M	09-30-16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	11-23-22
BRIDGE DRAINAGE	BC-751M	01-31-19
CONCRETE DECK SLAB DETAILS	BC-752M	11-23-22
STEEL GIRDER DETAILS	BC-753M	01-31-19
STEEL DIAPHRAGMS FOR STEEL BEAM/GIRDER STRUCTURES (STRAIGHT GIRDERS ONLY)	BC-754M	11-23-22
BEARINGS	BC-755M	01-31-19
STEEL PILE TIP REINFORCEMENTS & SPLICES	BC-757M	09-30-16
NEOPRENE STRIP SEAL DAM FOR PRESTRESSED CONCRETE & STEEL I-BEAM BRIDGES	BC-767M	11-23-22
REINFORCED CONCRETE REPAIR	BC-783M	01-31-19
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-23-22
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	06-01-10
BACKFILL AT STRUCTURES	RC-12M	11-01-22
CONCRETE PAVEMENT JOINTS	RC-20M	12-18-24
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	12-18-24



Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
INDEX OF DRAWINGS & RATING TABLES

RECOMMENDED 2026.05.15

SHEET 2 OF 97

S-42336

FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Final\3022005-RT.dgn
 DATE: 5/14/2026 TIME: 1:35:15 PM

GENERAL NOTES

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2020, AASHTO/AWS D1.5M/D1.5:2015 (USE AASHTO/AWS D1.1/D1.1M:2008 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5:2015) BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.
2. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M 270/M 270M (ASTM A 709/A709M) GRADE 50 DESIGNATION, EXCEPT WHEN NOTED OTHERWISE.
3. DESIGN SPECIFICATIONS:
 - A. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019 EDITION.
 - B. DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.
4. DESIGN LIVE LOADS:
 - A. PHL-93, P-82 AND P2016-13
 - B. FATIGUE DESIGN IS BASED UPON THE FOLLOWING: ADTT 230 (2077) (ONE DIRECTIONAL)
 - C. LIVE LOAD DISTRIBUTION TO THE GIRDERS IS BASED ON THE DM-4 METHOD.
5. DEAD LOADS:
 - A. INCLUDES A SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
 - B. INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEY OF THE FORMS.
 - C. INCLUDES 0.011 KIP/FT FOR RAILROAD PROTECTIVE FENCE AND 0.011 KIP/FT FOR UTILITIES.
6. PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
7. USE CLASS AAAP CEMENT CONCRETE IN:
 - DECK SLAB
 - CONCRETE END DIAPHRAGMS
 - APPROACH SLABS
8. USE CLASS AA CEMENT CONCRETE IN:
 - CURBS
 - BARRIERS
 - RAISED SIDEWALK
 - SLEEPER SLAB
 - CHEEK WALLS
 - MOMENT SLABS
 - ABUTMENT BACKWALLS
 - U-WINGS ABOVE BRIDGE SEAT CONSTRUCTION JOINT
9. USE CLASS A CEMENT CONCRETE IN:
 - ABUTMENTS BELOW GIRDER SEAT
 - U-WINGS BELOW BRIDGE SEAT CONSTRUCTION JOINT
 - FLARED WINGWALLS
 - FOOTINGS
 - PEDESTALS
 - PIERS
10. USE RETARDER ADMIXTURE CONFORMING TO PUBLICATION 408/2020 IN THE CONCRETE DECK SLAB.
11. VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
12. 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.
13. 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, FOOTINGS, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
14. USE EPOXY-COATED REINFORCEMENT BARS IN THE ENTIRE STRUCTURE.
15. GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
16. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
17. SITE CLASS IS NOT CLASS E OR F.
18. CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
19. PLACE CHEEKWALL AND BACKWALL CONCRETE AFTER GIRDERS ARE SET IN POSITION.
20. CHAMFER EXPOSED CONCRETE EDGES 3/4" BY 3/4", EXCEPT AS NOTED.
21. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
22. SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES F.
23. BRIDGE IS NOT WEIGHT RESTRICTED. SEE PUBLICATION 408, SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.
24. USE EITHER PERMANENT METAL FORMS OR REMOVABLE FORMS TO CONSTRUCT THE DECK SLAB.

25. DECK SLAB THICKNESS INCLUDES A 0.5" INTEGRAL WEARING SURFACE.
26. PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.
27. PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(K)9.
28. PROVIDE A MINIMUM WIDTH OF 2 1/2" AT 68° F FOR STRIP SEAL INSTALLATIONS UNLESS OTHERWISE INDICATED.
29. DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.
30. AN ACI CERTIFIED ANCHOR INSTALLER IS REQUIRED FOR THE INSTALLATION OF ADHESIVE ANCHORS FOR TEMPORARY INSTALLATIONS, INCLUDING DURING CONSTRUCTION.
31. COORDINATE, LOCATE AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.
32. DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE 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.
33. THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS 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. EXISTING STRUCTURE PLANS: S1136 (1940), S-17211 (1987), S-20101 (1993), S-27033 (2009)
34. THE PAINT ON THE EXISTING BRIDGE STRUCTURAL MEMBERS HAS NOT BEEN TESTED BUT IS ASSUMED TO CONTAIN LEAD PAINT AND/OR OTHER TOXIC MATERIALS (SUCH AS CADMIUM, CHROMIUM, ARSENIC, ETC.). THE CONTRACTOR MUST FOLLOW ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS FOR THE SAFE HANDLING AND DISPOSAL OF ALL PAINTED SURFACES.
35. TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM TO BE DESIGNED AND REMOVED IN ACCORDANCE WITH NORFOLK SOUTHERN PUBLIC PROJECTS MANUAL APPENDIX E AND PROJECT SPECIAL PROVISIONS.
36. CONTRACTOR TO MAINTAIN A MINIMUM 22'-0" WIDE CARTWAY ALONG THE EXISTING ACCESS ROAD LOCATED UNDER PROPOSED SPAN 3 DURING ALL CONSTRUCTION ACTIVITIES TO ALLOW FOR NORFOLK SOUTHERN VEHICLE MOVEMENT.
37. THE ELEVATIONS OF THE EXISTING TOP-OF-RAIL PROFILE SHALL BE VERIFIED BEFORE BEGINNING CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE NORFOLK SOUTHERN PUBLIC IMPROVEMENTS ENGINEER.
38. A MURAL WILL BE PLACED ON THE INSIDE FACE OF THE CONCRETE BARRIER BY OTHERS. CONTRACTOR TO PRESSURE WASH THE BRIDGE BARRIER FACE PRIOR TO MURAL PLACEMENT.

FOUNDATION NOTES

1. NOTIFY THE DISTRICT GEOTECHNICAL SPECIALIST IF ANY DEVIATIONS FROM THE NOTED SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DRAINAGE DURING CONSTRUCTION. DIRECT RUNOFF AWAY FROM THE PROPOSED FOUNDATION FOOTPRINT.
3. PROVIDE ADEQUATE DEWATERING METHODS DURING EXCAVATION AND FOUNDATION CONSTRUCTION SUCH THAT THE EXCAVATION IS DRY ENOUGH FOR INSPECTION AND CONCRETE PLACEMENT. ALL CONCRETE MUST BE PLACED ON A BEARING SURFACE FREE OF DEBRIS, LOOSE MATERIAL, AND SURFACE WATER.
4. 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.
5. 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.
6. CONSIDER THE SUBSURFACE SOIL ENVIRONMENT AS POTENTIALLY CORROSIVE. DESIGN PILES WITH A 1/16" REDUCTION OF STEEL ON EXPOSED SURFACES.

ABUTMENTS AND WINGWALLS A, C AND D

7. PROVIDE HP 14x89 STEEL BEARING PILES, PILE SECTIONS, AND SPLICE MATERIAL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1005.2(b), GRADE 50.
8. PROVIDE HEAVY-DUTY PILE TIP REINFORCEMENT IN ACCORDANCE WITH PUBLICATION 408, SECTION 1005.2(b) AND STANDARD DRAWING BC-775M.
9. PROVIDE A MINIMUM OF 3.0 FT OF FROST COVER OVER THE BOTTOM OF PILE CAPS.
10. WHEN PILES CANNOT BE ADVANCED DUE TO UNFORSEEN OBSTRUCTIONS, EXTRACT PILE AND PREDRILL IN ACCORDANCE WITH PUBLICATION, SECTION 1005.3(j).

11. DRIVE ALL PILES TO ABSOLUTE REFUSAL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1005.3(b)5.a CASE 1. CONTROL PILE DRIVING IN ACCORDANCE WITH THE FOLLOWING:
 - CONTROL PILE DRIVING BY THE WAVE EQUATION ANALYSIS. DRIVE TEST PILES TO ABSOLUTE REFUSAL. THE ENGINEER SHALL VERIFY, FROM THE TEST PILE DRIVING RESULTS, THE CAPABILITY OF THE PILE HAMMER SELECTED BY THE CONTRACTOR. DRIVE BEARING PILES TO ABSOLUTE REFUSAL INTO THE STRATUM DEFINED BY A TIP ELEVATION THAT IS PREDETERMINED BY THE ENGINEER FROM TEST PILES. THE ENGINEER SHALL DETERMINE THE ACCEPTABILITY OF THE BEARING PILES THAT ATTAIN ABSOLUTE REFUSAL ABOVE THE PREDETERMINED TIP ELEVATIONS.
12. PROVIDE ONE TEST PILE AT EACH ABUTMENT DURING EACH STAGE OF CONSTRUCTION, ONE AT WING A AND C AND TWO FOR WING D EXTENSION FOR A TOTAL OF 8. PROVIDE DYNAMIC PILE LOAD TESTING IN ACCORDANCE WITH PUBLICATION 408, SECTION 1005.3(h).
13. AFTER TEST PILE INSTALLATION IS COMPLETED, FILL IN THE FOLLOWING TABLE ON THE "AS-BUILT" PLANS

INSTALLATION INFORMATION						
SUBSTRUCTURE UNIT	PILE TYPE	PILE TIP (NONE/NORMAL/HEAVY DUTY)	PILE TIP ELEVATION	FACTORED DESIGN LOAD (KIP)	ULTIMATE PILE CAPACITY AT END OF DRIVING (KIP)	WEAP OR PDA
ABUTMENT 1		HEAVY DUTY				
WING A		HEAVY DUTY				
ABUTMENT 2		HEAVY DUTY				
WING C		HEAVY DUTY				
WING D		HEAVY DUTY				
WING D (EXT)		HEAVY DUTY				

WINGWALL B

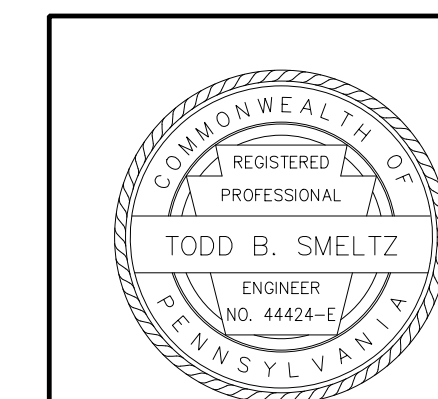
14. TOP AND BOTTOM OF THE DRILLED SHAFT MAY BE ORDERED BY THE REPRESENTATIVE TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.
15. CONSTRUCT DRILLED SHAFT IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1006.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
GENERAL NOTES - 1



RECOMMENDED 2026.05.15

SHEET 3 OF 97

S-42336

NOTES FOR STEEL GIRDERS

- IF GIRDERS CANNOT BE SHIPPED IN THE LENGTHS SHOWN ON THE PLANS, FIELD SPLICE(S) WILL BE PERMITTED AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NORFOLK SOUTHERN APPROVAL AND PENNDOT STRUCTURE CONTROL ENGINEER APPROVAL OF THE REVISED SPLICE LOCATIONS. NO COMPENSATION WILL BE ALLOWED FOR THE SPLICES (SEE GIRDER NOTES AND SPECIAL PROVISIONS).
- IF GIRDERS CAN BE FABRICATED IN LENGTHS LONGER THAN THE SECTIONS SHOWN ON THE PLANS BY ELIMINATING FIELD SPLICES, FIELD SPLICE(S) MAY BE OMITTED AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVAL OF THE REVISED FIELD SPLICE LOCATIONS FROM NORFOLK SOUTHERN AND THE PENNDOT STRUCTURE CONTROL ENGINEER. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR SECURING A HAULING PERMIT. APPROVAL FOR ELIMINATION OF A FIELD SPLICE AT THE SHOP DRAWING STAGE DOES NOT OBLIGATE THE DEPARTMENT TO ISSUE A HAULING PERMIT.
- DO NOT USE FORM SUPPORT SYSTEMS THAT WILL CAUSE UNACCEPTABLE OVERSTRESS OR DEFORMATION TO PERMANENT BRIDGE MEMBERS.
- ALL FASTENERS ARE 7/8 IN. DIAMETER HS BOLTS, EXCEPT AS NOTED.
- REAM SUBDRILLED OR SUBPUNCHED HOLES FOR FIELD SPLICES IN THE FABRICATION SHOP.
- DO NOT MAKE WELDS BY MANUAL SHIELDED METAL ARC PROCESS FOR PRIMARY GIRDER WELDS, SUCH AS FLANGE-TO-WEB WELDS OR FOR SHOP SPLICES OF WEBS AND FLANGES.
- DO NOT WELD PERMANENT METAL DECK FORMS OR OTHER ATTACHMENTS TO GIRDER TOP FLANGES IN TENSION AREAS. (TENSION AREAS OF TOP FLANGES ARE DESIGNATED ON THE PLANS.) THREADED STUDS FOR THE SUPPORT OF THE OVERHANG DECK FORMING BRACKET IS PERMITTED PROVIDED THE THREADED STUD IS ATTACHED WITH THE SAME WELDING PROCESSING AS THE SHEAR STUDS.
- WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.
- PROVIDE WELDED STUD SHEAR CONNECTORS MANUFACTURED FROM STEEL CONFORMING TO ASTM A108.
- SET ANCHOR BOLTS TO TEMPLATE OR IN PREFORMED HOLES. DO NOT DRILL UNLESS SPECIFICALLY INDICATED ON PLANS. FILL THE PREFORMED HOLES WITH NON-SHRINK GROUT. FILL THE CLEARANCE BETWEEN ANCHOR BOLTS AND HOLES IN MASONRY PLATES WITH APPROVED NON-HARDENING CAULKING COMPOUND CONFORMING TO PUBLICATION 408, SECTION 705.8.
- FABRICATE ALL MEMBERS OR MEMBER COMPONENTS DESIGNATED AS FRACTURE-CRITICAL MEMBERS (FCM) TO CONFORM TO THE REQUIREMENTS OF DESIGN MANUAL, PART 4, SECTION 6, ARTICLE D6.6.2, AND AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 6.6.2, AND PUBLICATION 408, SECTIONS 1105.02(A)5 AND 1105.03(M)9. MEET THE BASE METAL CHARPY V-NOTCH (CVN) REQUIREMENTS FOR ZONE 2.
- SHOP APPLY A THERMAL SPRAY COATING SYSTEM (METALLIZING) AND DUPLEX PAINT SYSTEM TO ALL SURFACES OF THE GIRDERS, EXCEPT THE ENTIRE TOP FACE OF FLANGES THAT WILL HAVE SHEAR CONNECTORS ATTACHED AND ANY PORTION OF THE GIRDER ENDS THAT WILL BE ENCASED IN CONCRETE, DIAPHRAGM CONNECTION PLATES, BEARING AND JACKING STIFFENERS AND SPLICE PLATES. APPLY COATINGS IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 1060.2(c) AND 1060.3(b)6.
- SHOP APPLY AN INORGANIC ZINC PRIMER IN ACCORDANCE WITH SECTION 1060 TO THE TOP FACES OF TOP FLANGES THAT WILL HAVE SHEAR CONNECTORS ATTACHED AND ANY PORTION OF THE GIRDER ENDS THAT WILL BE ENCASED IN CONCRETE.
- THE FLANGE PLATES, BEARING AND JACKING STIFFENER PLATES, INTERMEDIATE DIAPHRAGM CONNECTION PLATES AND SPLICE PARTS ARE TO BE OVERSIZED IN WIDTH TO ACCOMMODATE THE REDUCTION DUE TO EDGE GRINDING REQUIRED FOR METALLIZING.
- GALVANIZE INTERMEDIATE DIAPHRAGM ANGLES AND CONNECTION PLATES IN ACCORDANCE WITH PUBLICATION 408, SECTION 1105.02(S).
- STABILITY OF PARTIAL GIRDERS AND COMPLETE GIRDERS IS TO BE MAINTAINED BY THE CONTRACTOR DURING ERECTION, UNTIL ALL GIRDERS AND DIAPHRAGMS ARE IN-PLACE AND ALL BOLTS ARE PROPERLY INSTALLED. ERECTION LOADS INCLUDING SELF WEIGHT OF THE STEEL MEMBERS, WIND LOADING AND CONSTRUCTION LIVE LOAD EFFECTS ARE TO BE EVALUATED BY THE CONTRACTOR FOR STABILITY, STRESSES AND DEFLECTIONS ON THE STEEL MEMBERS DURING ANY STAGE OF ERECTION.
- AN ALTERNATE SLAB PLACEMENT SEQUENCE MAY BE PERMITTED AT THE REQUEST OF THE CONTRACTOR. SUBMIT FOR REVIEW AND APPROVAL TO THE DEPARTMENT A REVISED SLAB PLACEMENT SEQUENCE WITH SUPPORT CALCULATIONS AND COMPUTER STRESS ANALYSIS. SATISFY THE REQUIREMENTS OF THE ORIGINAL SLAB PLACEMENT SEQUENCE. OBTAIN WRITTEN APPROVAL PRIOR TO THE USE OF THE REVISED SLAB PLACEMENT SEQUENCE AND/OR CAMBER VALUES. NO COMPENSATION WILL BE ALLOWED FOR THE DEVELOPMENT AND APPROVAL OF THE REVISED SLAB PLACEMENT SEQUENCE AND CAMBER VALUES. THE DEPARTMENT WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE REVISED SLAB PLACEMENT SEQUENCE AND CAMBER VALUES.
- HEAT-CURVED GIRDERS ARE NOT PERMITTED.
- BLAST CLEAN THE FAYING SURFACES OF SPLICES AND CONNECTIONS OF ALL STRUCTURAL ELEMENTS IN ACCORDANCE WITH PUBLICATION 408 SECTION 1060.3(b)3. REBLAST UNPAINTED ELEMENTS THAT REMAIN UNASSEMBLED FOR A PERIOD OF 12 MONTHS OR MORE FOLLOWING THE INITIAL CLEANING.
- THE STEEL SUPERSTRUCTURE SHALL BE DETAILED AND FABRICATED FOR TOTAL DEAD LOAD FIT (TDLF).
- PERFORM CHARPY V-NOTCH (CVN) TESTS AS INDICATED AS SPECIFIED IN PUBLICATION 408, SECTION 1105.02(d)5.

MOMENT SLABS

- BARRIER AND MOMENT SLAB DESIGNED IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 1992 (INCLUDING THE 1993 AND 1994 INTERIM SPECIFICATIONS), AND AS SUPPLEMENTED BY THE DESIGN MANUA., PART 4, STRUCTURES, AUGUST 1993 EDITION (INCLUDING LATEST REVISIONS).
- 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 THE REQUIRED LENGTH.
- CONTRACTOR IS RESPONSIBLE FOR LIFTING, HANDLING AND TRANSPORTATION STRESSES.
- CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BERACING 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.

APPROACH SLABS

- CONSTRUCT BRIDGE APPROACH SLABS AFTER THE BRIDGE DECK SLAB IS CONSTRUCTED.
- PLACE CONCRETE IN ONE CONTINUOUS OPERATION, UNLESS OTHERWISE INDICATED OR DIRECTED.
- TRANSVERSE CONSTRUCTION JOINTS ARE NOT PERMITTED IN THE CONCRETE APPROACH SLAB OR SLEEPER SLAB, UNLESS OTHERWISE INDICATED.

SOLDIER PILE WALL

- PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 (ASTM A709) GRADE 50.
- GALVANIZE MATERIAL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1105.02(s)1. REPAIR GALVANIZED SURFACES DAMAGED DURING CONSTRUCTION IN ACCORDANCE WITH PUBLICATION 408, SECTION 1105.02(s)2.
- USE CLASS A CEMENT CONCRETE FOR CAISSONS AND ROCK SOCKETS.
- PROVIDE PRECAST CONCRETE PANELS IN ACCORDANCE WITH PUBLICATION 408, SECTION 714 AND USE 4,000 PSI CONCRETE. CHAMFER EXPOSED CONCRETE EDGES 3/4"x3/4" WHERE NOTED.
- PROVIDE NO. 57 COARSE AGGREGATE FOR STRUCTURAL BACKFILL. PLACE BACKFILL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1001.3(q)2b.
- PLACE PILES TO WITHIN 1" IN 10' OF VERTICAL, BUT DO NOT ALLOW AN OUT-OF-PLANE OFFSET OF MORE THAN 1" IN 10' WITH RESPECT TO ADJACENT PILES. PLACE EACH PILE WITHIN 2" HORIZONTALLY OF THE INDICATED LOCATION AT FINISHED GROUND LINE. PROVIDE MINIMUM BEARING DISTANCE FOR PRECAST LAGGING AT EDGE OF PILE FLANGE AS INDICATED IN PRECAST CONCRETE LAGGING DETAILS. IF NECESSARY, FABRICATE PRECAST LAGGING AFTER DRIVING OR PLACING PILES TO ENSURE PROPER FIT AND BEARING DISTANCE.

ABBREVIATIONS

SUPPLEMENT THE STANDARD DRAFTING ABBREVIATIONS AS SPECIFIED BY THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, PART 3, HIGHWAY PLANS PRESENTATION, MARCH 2015 EDITION INCLUDING MAY 2020 CHANGE NO.2 WITH THE FOLLOWING ABBREVIATIONS:

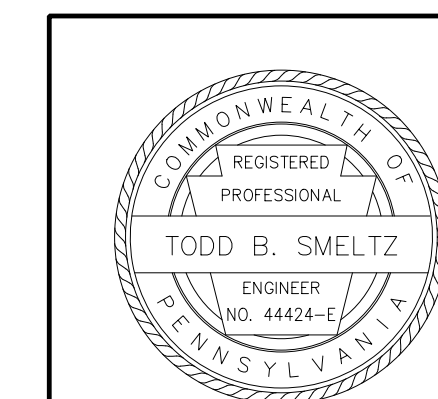
EF = EACH FACE	CIP = CAST IN PLACE
FF = FRONT FACE	EPTE = ESTIMATED PILE TYPICAL ELEVATION
RF = REAR FACE	BFE = BOTTOM FOOTING ELEVATION
SPA = SPACE(S)	TCE = TOP OF CAISON ELEVATION)
WP = WORK POINT	TRSE = TOP OF ROCK SOCKET ELEVATION
CCNS = CLOSED CELL NEOPRENE SPONGE	BRSE = BOTTOM OF ROCK SOCKET ELEVATION
ADTT = AVERAGE DAILY TRUCK TRAFFIC	TOR = TOP OF ROCK
COMP = COMPOSITE	ETBZ = ESTIMATED TOP OF BONDING ZONE
PVC = POLYVINYL CHLORIDE	EBBZ = ESTIMATED BOTTOM OF BONDING ZONE

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

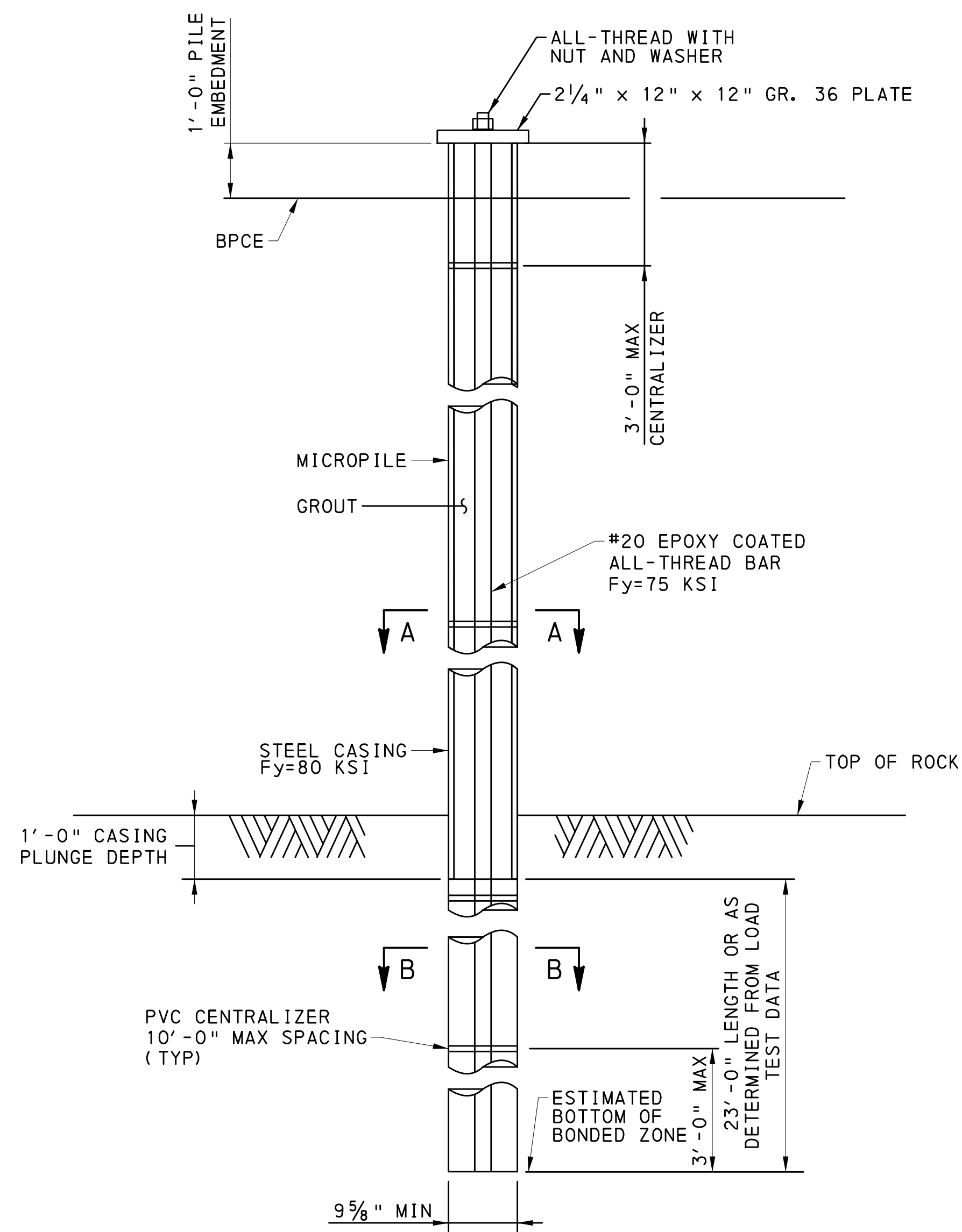
DAUPHIN COUNTY
S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
GENERAL NOTES - 2



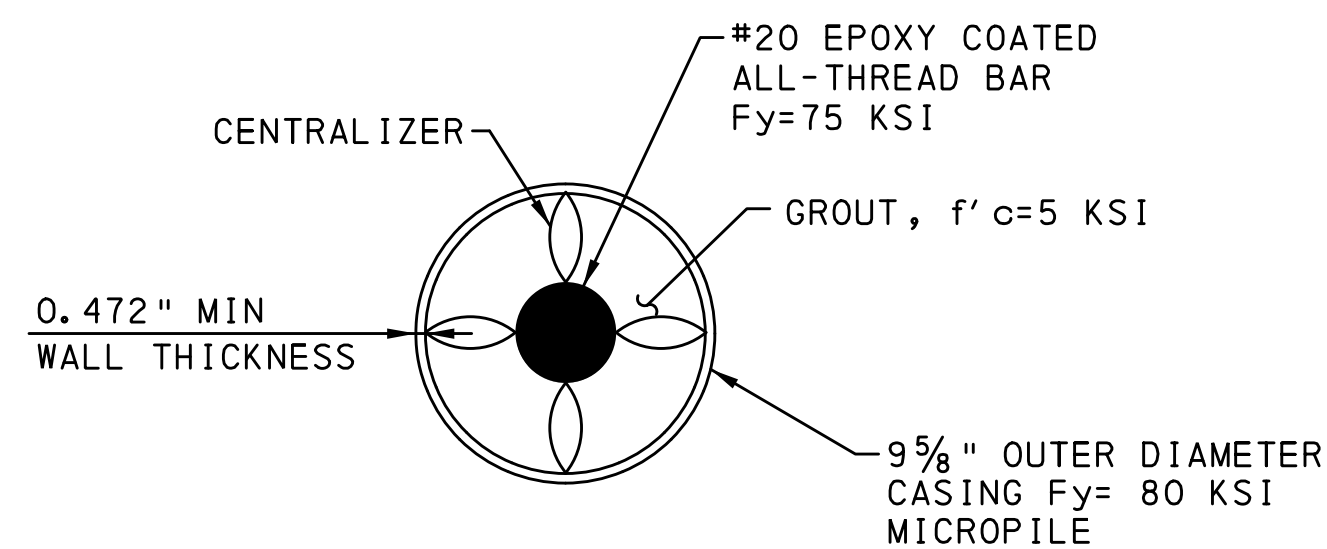
RECOMMENDED 2026.05.15

SHEET 4 OF 97

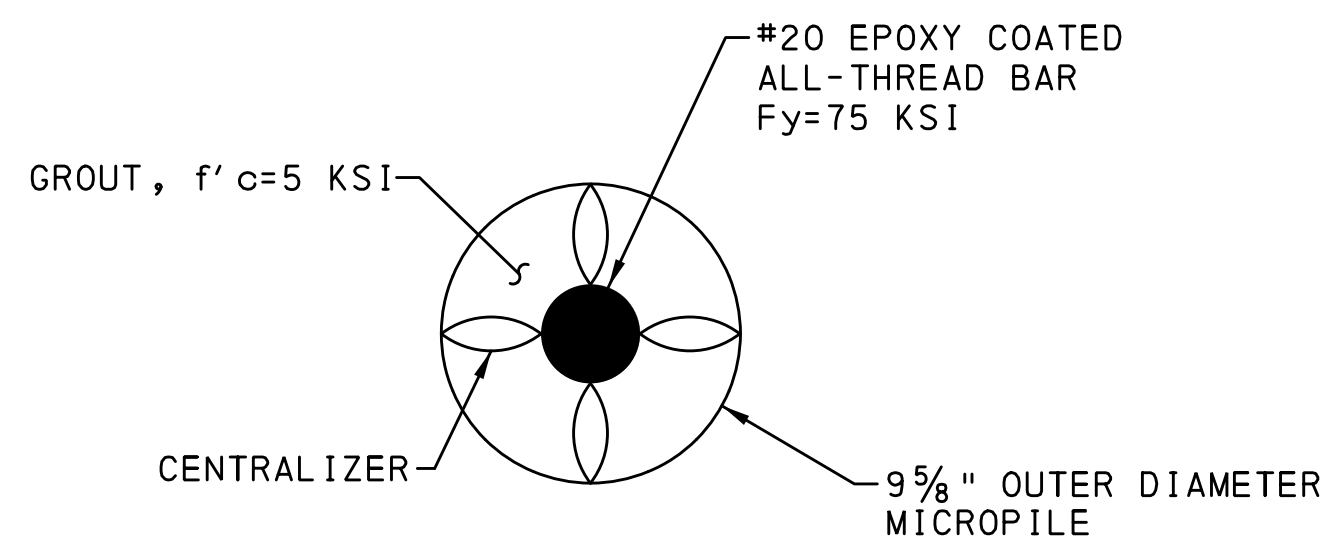
S-42336



ELEVATION
TYPICAL MICROPILE DETAIL
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

FOUNDATION NOTES

- 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.
- CONSTRUCT MICROPILES IN ACCORDANCE WITH PUBLICATION 408, SECTION 1007. BOND ZONES MUST HAVE A MINIMUM LENGTH OF 23.0 FEET WITHIN COMPETENT BEDROCK OR AS DETERMINED FROM LOAD TEST DATA.
- SOIL AND VOIDS DO NOT COUNT TOWARD BOND LENGTH.
- NO SOIL SEAM, IN EXCESS OF 5.0 FEET, WILL BE ACCEPTABLE WITHIN THE BOND ZONE.
- NO ROCK SEAM, LESS THAN 5.0 FEET, WILL BE ACCEPTABLE WITHIN THE BOND ZONE.
- NO BOND ZONE WILL TERMINATE WITHOUT A MINIMUM OF 5 FEET OF COMPETENT ROCK AT THE BOTTOM OF THE BOND ZONE.
- PERFORM LOAD TESTING IN ACCORDANCE WITH PUBLICATION 408, SECTION 1007.3(j)2. DURING STAGE 1 CONSTRUCTION INSTALL ONE (1) VERIFICATION LOAD TEST PILE AT EACH PIER. PERFORM VERIFICATION LOAD TEST ON PRE-PRODUCTION MICROPILE INSTALLED OUTSIDE THE FOOTING. DURING STAGE 1 CONSTRUCTION PERFORM TWO (2) PROOF LOAD TESTS AT EACH PIER ON PRODUCTION PILES. UTILIZE LOAD TEST DATA TO VERIFY DESIGN BOND ZONE. AS A RESULT OF LOAD TESTS AND INSTALLATION RECORDS, MICROPILE BOND ZONES SHALL BE SHORTENED OR LENGTHENED. SUBMIT THE REVISIONS TO THE DISTRICT GEOTECHNICAL SPECIALIST OR REPRESENTATIVE FOR APPROVAL.
- 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. INSTALL TEMPORARY EXCAVATION SUPPORT SYSTEM AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CONTROL OF DRAINAGE DURING CONSTRUCTION. DIRECT RUNOFF AWAY THE PROPOSED FOUNDATION FOOTPRINT.
- SITE CLASS IS NOT CLASS E OR F.
- CONSIDER THE SUBSURFACE ENVIRONMENT CORROSIVE; USE EPOXY COATED REINFORCEMENT BARS WITHIN THE SUBSTRUCTURES. DESIGN PILES WITH A 1/16" REDUCTION OF STEEL ON EXPOSED SURFACES.

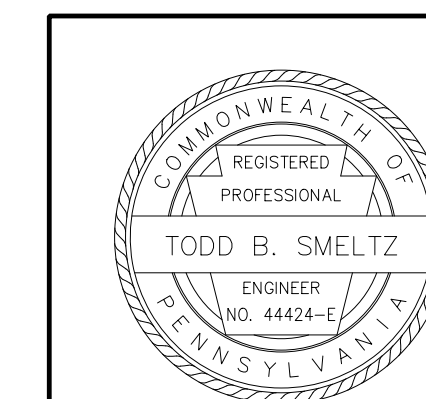
MICROPILE RESISTANCE FACTORS AND DESIGN RESISTANCE					
LRFD RESISTANCE FACTORS FOR MICROPILE FOUNDATION DESIGN			STRUCTURAL FACTORED COMPRESSION RESISTANCE (CASED/UNCASED SECTION) (KIPS)	STRUCTURAL FACTORED TENSION RESISTANCE (CASED/UNCASED SECTION) (KIPS)	GROUT BOND RESISTANCE (PSI)
GEOTECHNICAL AXIAL RESISTANCE FACTOR (COMPRESSION/UPLIFT)	STRUCTURAL COMPRESSION RESISTANCE FACTOR (CASED/UNCASED)	STRUCTURAL TENSION RESISTANCE FACTOR (CASED/UNCASED)			
0.55/0.55	0.65/0.65	0.80/0.80	816.1/362.78	645.9/294.6	80

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MICROPILE DETAILS



RECOMMENDED 2026.05.15

SHEET 5 OF 97

S-42336

ALTERNATE STRUCTURE ITEMS				
ITEM NUMBER	DESCRIPTION	UNIT	TOTAL	
8120-0001	BRIDGE STRUCTURE, AS DESIGNED, S-42336	(2) LS	LUMP SUM	
8000-0002	PRESTRESSED CONCRETE BRIDGE STRUCTURE	(2) LS	LUMP SUM	
8100-0002	STEEL BRIDGE STRUCTURE	(2) LS	LUMP SUM	

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE, AS DESIGNED

ITEM NUMBER	DESCRIPTION	UNIT	APPROACH SLAB 1	ABUT 1	WING B	PIER 1	PIER 2	PIER 3	ABUT 2	APPROACH SLAB 2	MOMENT SLAB	SUPER-STRUCTURE	TOTAL
8120-0001	BRIDGE STRUCTURE, AS DESIGNED, S-42336	(2) LS											LS
(1)	CLASS 3 EXCAVATION	(18) CY		1,480	85	335	265	880	2,680				5,725
(1)	SELECTED BORROW EXCAVATION ROCK, CLASS R-4	CY		604									604
(1)	STRUCTURE BACKFILL	(19) CY		1,065	80	230	130	725	3,950				6,180
(1)	GEOTEXTILE, CLASS 4, TYPE A	SY		376	24								400
(1)	ELASTOMER WATERPROOFING MEMBRANE ON OTHER SURFACES	(2) SY		49		40	40	40	92				261
(1)	NO. 8 COARSE AGGREGATE	CY			15								15
(1)	NO. 57 COARSE AGGREGATE	(3) CY		4	3				8				15
(1)	JUNCTION BOXES J.B.-25	EACH	2							2		6	10
(1)	2" CONDUIT IN STRUCTURE	(16) LF	65							45	134	1,003	1,247
(1)	LIGHTING POLE, ANCHORAGE	EACH	2							2		6	10
(1)	MECHANICAL TEXTURING WITH LONGITUDINAL SAWED GROOVES	SY	214							142		3,606	3,962
(1)	CLASS AAAP CEMENT CONCRETE	(4 & 5) CY	161							111		1,610	1,882
(1)	CLASS AA CEMENT CONCRETE	(6) CY	43	18					24	36	125	508	754
(1)	CLASS A CEMENT CONCRETE	(17) CY		255	4	323	349	373	760				2,064
(1)	DOWEL HOLES, 15" DEPTH	EACH			28								28
(1)	STEEL HP 14x89 TEST PILE	(7 & 8) EACH		3					5				8
(1)	RAILROAD PROTECTIVE FENCE, CURVED TOP, STEEL	LF										1,000	1,000
(1)	NEOPRENE STRIP SEAL DAM, (5" MOVEMENT)	(9) LF	87							87			174
(1)	FABRICATED STRUCTURAL STEEL	(10) LB										1,285,433	1,285,433
(1)	FABRICATED STRUCTURAL STEEL, GALVANIZED	(11) LB										66,404	66,404
(1)	FABRICATED STRUCTURAL STEEL, GALVANIZED, W12x152	(2) LB			16,644								16,644
(1)	LAMINATED NEOPRENE BEARING PAD	EACH										35	35
(1)	SHEAR CONNECTORS	EACH										11,788	11,788
(1)	WALL PANELS, PRECAST REINFORCED CONCRETE	(2 & 12) SF			216								216
(1)	TIMBER LAGGING	(2) SF			216								216
AND													
1002-0053	REINFORCEMENT BARS, EPOXY COATED	(13) LB	43,880	22,570	855	21,630	26,455	25,780	78,810	31,890	10,945	495,615	758,430
AND													
1002-0140	MECHANICAL SPLICE SYSTEM FOR NO. 5 REINFORCEMENT BARS, EPOXY COATED	(13) EACH	44	37		86	86	94	67	34		1,092	1,540
AND													
1002-0142	MECHANICAL SPLICE SYSTEM FOR NO. 6 REINFORCEMENT BARS, EPOXY COATED	(13) EACH	8						62	8		1,114	1,192
AND													
1002-0146	MECHANICAL SPLICE SYSTEM FOR NO. 7 REINFORCEMENT BARS, EPOXY COATED	(13) EACH	31	32						21			84
AND													
1005-1440	PILE EXTRACTION AND REDRIVING	DOLLAR		10,000					10,000				20,000
AND													
1005-1481	DYNAMIC PILE LOAD TEST	EACH		3					5				8

QUANTITY BLOCK NOTES

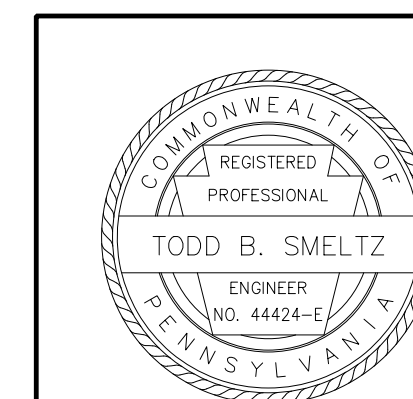
- ITEMS IN BRIDGE STRUCTURE LUMP SUM ITEM 8120-0001 GIVEN FOR INFORMATION ONLY.
- SEE SPECIAL PROVISIONS.
- INCLUDES GEOTEXTILE, CLASS 1 AT WEEP HOLES.
- INCLUDES CLASS AAAP CONCRETE IN DECK SLAB AND APPROXIMATELY 124 CUBIC YARDS OF CLASS AAAP CONCRETE TO ACCOUNT FOR STAY-IN-PLACE FORM TROUGHS.
- INCLUDES CLASS AAAP CONCRETE IN END DIAPHRAGMS.
- INCLUDES CLASS AA CONCRETE IN ABUTMENT BACKWALLS, CHEEKWALLS, CORNER BLOCKS AND UWINGS ABOVE THE BRIDGE SEAT.
- INCLUDES 8 HEAVY DUTY PILE TIP REINFORCEMENTS.
- ABUTMENT 1; 2 @ 22FT, WING A; 1 @ 17FT; ABUTMENT 2; 2 @ 25FT, WING C; 1 @ 18FT, WING D EXTENSION; 1 @ 23FT & 1 @ 29FT.
- INCLUDES COVER PLATES (FABRICATED STRUCTURAL STEEL, GALVANIZED 230 LBS), BOLTS, WASHERS, AND THREADED INSERTS.
- INCLUDES SHOP APPLIED THERMAL SPRAY COATING (METALLIZING), DUPLEX COATINGS, AND PRIME COATS AS INDICATED.
- FABRICATED STRUCTURAL STEEL, GALVANIZED INCLUDES 56,858 LBS FOR INTERMEDIATE DIAPHRAGMS AND 9,546 LBS FOR SOLE PLATES.
- INCLUDES PREFABRICATED STRIP DRAIN AND NEOPRENE BEARING PADS.
- FOR AS DESIGNED STRUCTURE, INCLUDED IN BRIDGE BID ITEMS. FOR ALTERNATE DESIGNS, INCLUDE IN BRIDGE STRUCTURE LUMP SUM BID ITEM.
- INCLUDES OVERBURDEN DRILLING.
- TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM LUMP SUM BASED ON 2025 SF @ ABUTMENT 1; 170 SF @ PIER 1; 1450 SF @ PIER 2; 995 SF @ PIER 3 AND 4365 SF @ ABUTMENT 2.
- INCLUDES 4 CONDUIT EXPANSION JOINT FITTINGS.
- PVC SLEEVE FOR FUTURE JACKING IS INCIDENTAL TO CLASS A CEMENT CONCRETE.
- PIER CLASS 3 EXCAVATION TO BE HANDLED IN ACCORDANCE WITH ITEM 9000-0607 - DISPOSAL OF RESIDUAL WASTE.
- USE NORFOLK SOUTHERN MODIFIED AASHTO #3 STONE FOR STRUCTURE BACKFILL AT PIERS. SEE EROSION AND SEDIMENT POLLUTION CONTROL PLANS FOR NORFOLK SOUTHERN MODIFIED AASHTO #3 GRADATION.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
QUANTITIES - 1



RECOMMENDED 2026.05.15

SHEET 6 OF 97

S-42336

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APPROXIMATE QUANTITIES - BRIDGE STRUCTURE, AS DESIGNED

ITEM NUMBER	DESCRIPTION	UNIT	APPROACH SLAB 1	ABUT 1	WING B	PIER 1	PIER 2	PIER 3	ABUT 2	APPROACH SLAB 2	MOMENT SLAB	SUPER-STRUCTURE	TOTAL
AND													
1005-1840	STEEL HP 14x89 PRODUCTION PILE	LF		794					1,904				2,698
AND													
1005-2041	STEEL HP 14x89 PILE TIP REINFORCEMENT (HEAVY DUTY)	EACH		37					129				166
AND													
1006-0030	OBSTRUCTION DRILLING, CAISSON	LF			6								6
AND													
1006-1005	36" DIAMETER DRILLED CAISSONS, SHAFT SECTION IN SOIL (14)	LF			38								38
AND													
1006-1090	30" DIAMETER DRILLED CAISSONS, ROCK SOCKET	LF			15								15
AND													
1007-0200	MICROPILES VERIFICATION LOAD TEST	EACH				1	1	1					3
AND													
1007-0210	MICROPILES PROOF LOAD TEST	EACH				2	2	2					6
AND													
1007-0220	MICROPILES MOBILIZATION	LS											LS
AND													
1007-0230	MICROPILES GROUT	CF				125	175	130					430
AND													
5007-0350	MICROPILES 9 5/8" DIAMETER, PLAIN STEEL (EPOXY COATED ALL-THREAD BAR) (2)	LF				1,194	1,710	1,275					4,179
AND													
1018-0049	REMOVAL OF PORTION OF EXISTING BRIDGE, S-42336 (2)	LS											LS
1019-0050	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)	SY	383							266	238	5,278	6,165
9000-0202	REPAIR DETERIORATED CONCRETE (2)	SF			8								8
9000-0203	DEBRIS SHIELDING (2)	LS											LS
9203-0102	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, S-42336 (2 & 15)	LS											LS

NOTES:

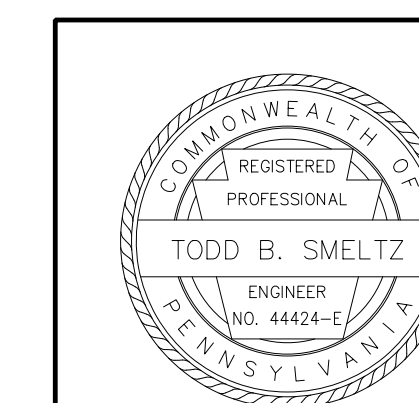
1. FOR QUANTITY BLOCK NOTES, SEE SHEET 6.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

**COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION**

**DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 QUANTITIES - 2**

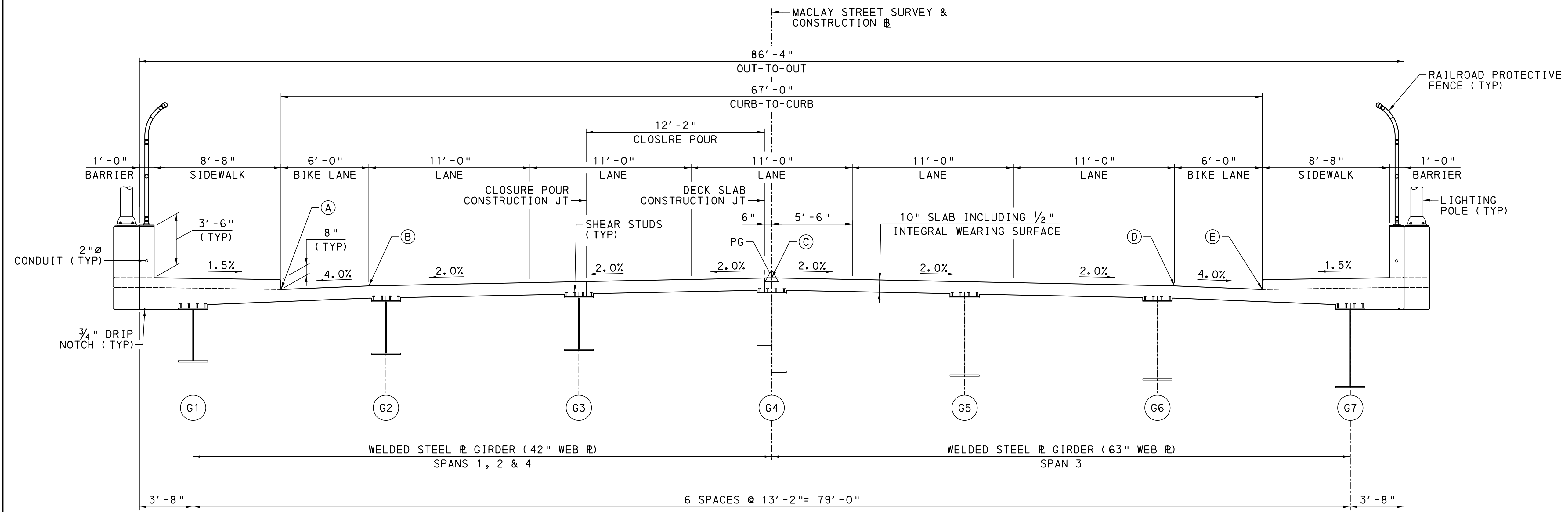


RECOMMENDED 2026.05.15

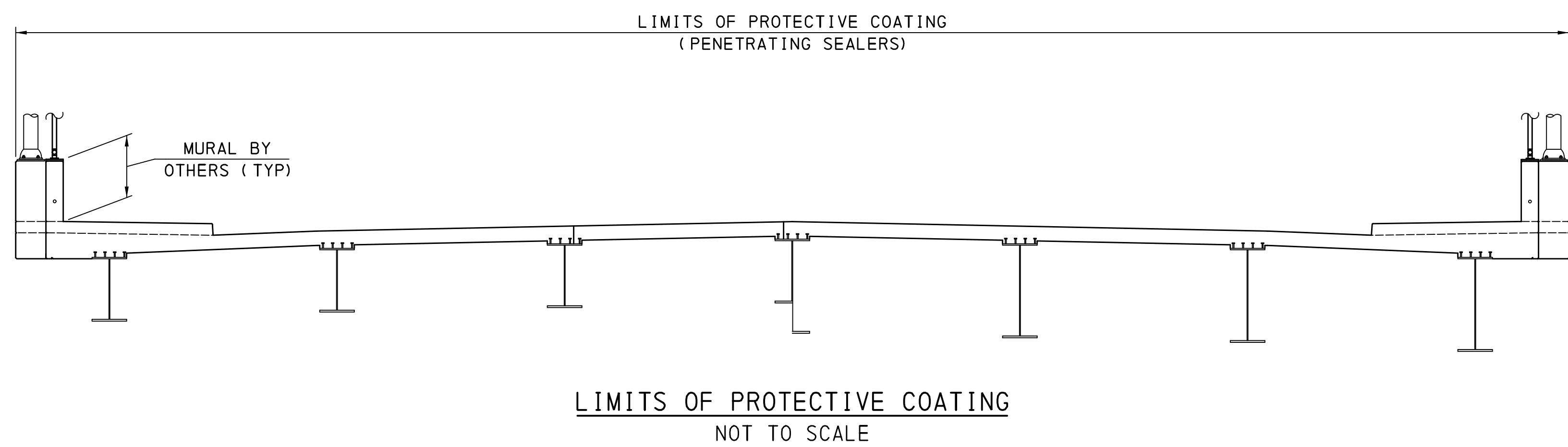
SHEET 7 OF 97

S-42336

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TYPICAL SECTION
 2 1 0 4 8



NOTES

1. FOR ADDITIONAL RAILROAD PROTECTIVE FENCE DETAILS AND NOTES, SEE BC-701M.
2. FOR LIGHTING POLE LOCATIONS AND ANCHORAGE DETAILS, SEE SHEETS 56, 57, 65 AND 73.
3. FOR ADDITIONAL LIGHT POLE DETAILS, SEE LIGHTING PLAN.
4. FOR V-NOTCH AND CONSTRUCTION JOINT DETAILS, SEE BC-752M.
5. FOR DECK ELEVATION TABLES, SEE SHEET 9.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

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COMMONWEALTH OF PENNSYLVANIA
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TYPICAL SECTION



RECOMMENDED 2026.05.15

SHEET 8 OF 97

S-42336

FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Final\3022005-TS.dgn
 DATE: 5/14/2026 TIME: 1:35:17 PM

FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Final\3022005-TS.dgn
DATE: 5/14/2026 TIME: 1:35:17 PM

TOP OF DECK ELEVATIONS																	
STATION	(A)	(B)	(C)	(D)	(E)	STATION	(A)	(B)	(C)	(D)	(E)	STATION	(A)	(B)	(C)	(D)	(E)
36+05.92						37+50.00	370.02	370.26	370.81	370.26	370.02	39+81.44	365.37	365.61	366.16	365.61	365.37
36+06.05					363.28	37+60.00	370.22	370.46	371.01	370.46	370.22	39+81.57	365.36	365.60	366.15	365.60	365.36
36+06.44					363.31	37+70.00	370.38	370.62	371.17	370.62	370.38	39+82.09	365.33	365.57	366.12	365.57	365.33
36+06.57				363.56	363.32	37+80.00	370.50	370.74	371.29	370.74	370.50	39+84.50	365.18	365.42	365.97	365.42	365.18
36+07.09				363.59	363.35	37+90.00	370.59	370.83	371.38	370.83	370.59	39+86.91	365.03	365.27	365.82	365.27	365.03
36+08.98			364.27	363.72	363.48	38+00.00	370.65	370.89	371.44	370.89	370.65	39+87.43	364.99	365.23	365.78	365.23	364.99
36+09.50			364.30	363.75	363.51	38+10.00	370.66	370.90	371.45	370.90	370.66	39+90.00	364.83	365.07	365.62	365.07	364.83
36+10.00			364.34	363.79	363.55	38+20.00	370.64	370.88	371.43	370.88	370.64	40+00.00	364.16	364.40	364.95	364.40	364.16
36+11.38		363.88	364.43	363.88	363.64	38+21.44	370.64	370.88	371.43	370.88	370.64	40+10.00	363.46	363.70	364.25	363.70	363.46
36+11.91	363.67	363.91	364.46	363.91	363.67	38+21.57	370.64	370.88	371.43	370.88	370.64	40+20.00	362.72	362.96	363.51	362.96	362.72
36+12.43	363.71	363.95	364.50	363.95	363.71	38+22.09	370.63	370.87	371.42	370.87	370.63	40+30.00	361.96	362.20	362.75	362.20	361.96
36+20.00	364.21	364.45	365.00	364.45	364.21	38+24.50	370.62	370.86	371.41	370.86	370.62	40+40.00	361.19	361.43	361.98	361.43	361.19
36+30.00	364.87	365.11	365.66	365.11	364.87	38+26.91	370.61	370.85	371.40	370.85	370.61	40+50.00	360.42	360.66	361.21	360.66	360.42
36+40.00	365.50	365.74	366.29	365.74	365.50	38+27.43	370.61	370.85	371.40	370.85	370.61	40+60.00	359.65	359.89	360.44	359.89	359.65
36+50.00	366.09	366.33	366.88	366.33	366.09	38+30.00	370.59	370.83	371.38	370.83	370.59	40+70.00	358.88	359.12	359.67	359.12	358.88
36+60.00	366.65	366.89	367.44	366.89	366.65	38+40.00	370.50	370.74	371.29	370.74	370.50	40+80.00	358.11	358.35	358.90	358.35	358.11
36+70.00	367.16	367.40	367.95	367.40	367.16	38+50.00	370.37	370.61	371.16	370.61	370.37	40+90.00	357.34	357.58	358.13	357.58	357.34
36+80.00	367.65	367.89	368.44	367.89	367.65	38+60.00	370.21	370.45	371.00	370.45	370.21	41+00.00	356.58	356.82	357.37	356.82	356.58
36+90.00	368.09	368.33	368.88	368.33	368.09	38+70.00	370.01	370.25	370.80	370.25	370.01	41+06.44	356.08	356.32	356.87	356.32	356.08
37+00.00	368.51	368.75	369.30	368.75	368.51	38+80.00	369.77	370.01	370.56	370.01	369.77	41+06.57	356.07	356.31	356.86	356.31	356.07
37+10.00	368.88	369.12	369.67	369.12	368.88	38+90.00	369.50	369.74	370.29	369.74	369.50	41+06.96	356.04	356.28	356.83	356.28	356.04
37+11.44	368.93	369.17	369.72	369.17	368.93	39+00.00	369.20	369.44	369.99	369.44	369.20	41+07.09	356.03	356.27	356.82	356.27	356.03
37+11.57	368.94	369.18	369.73	369.18	368.94	39+10.00	368.86	369.10	369.65	369.10	368.86	41+07.62	355.99	356.23	356.78	356.23	
37+12.09	368.96	369.20	369.75	369.20	368.96	39+20.00	368.48	368.72	369.27	368.72	368.48	41+09.50	355.85	356.09	356.64		
37+14.50	369.04	369.28	369.83	369.28	369.04	39+30.00	368.06	368.30	368.85	368.30	368.06	41+10.00	355.81	356.05	356.60		
37+16.91	369.12	369.36	369.91	369.36	369.12	39+40.00	367.61	367.85	368.40	367.85	367.61	41+10.02	355.80	356.04	356.59		
37+17.43	369.14	369.38	369.93	369.38	369.14	39+50.00	367.13	367.37	367.92	367.37	367.13	41+11.91	355.66	355.90			
37+20.00	369.22	369.46	370.01	369.46	369.22	39+60.00	366.61	366.85	367.40	366.85	366.61	41+12.43	355.62	355.86			
37+30.00	369.52	369.76	370.31	369.76	369.52	39+70.00	366.05	366.29	366.84	366.29	366.05	41+12.95	355.58				
37+40.00	369.79	370.03	370.58	370.03	369.79	39+80.00	365.46	365.70	366.25	365.70	365.46						

TOP OF DECK ELEVATIONS ALONG CENTERLINE OF GIRDERS							
TENTH POINT	G1	G2	G3	G4	G5	G6	G7
CL BRG ABUT 1	363.85	363.93	364.12	364.30	363.96	363.62	363.39
0.1	364.55	364.63	364.82	365.00	364.66	364.32	364.09
0.2	365.23	365.32	365.51	365.70	365.36	365.02	364.78
0.3	365.87	365.96	366.16	366.35	366.02	365.68	365.45
0.4	366.47	366.57	366.77	366.97	366.64	366.31	366.08
0.5	367.04	367.14	367.34	367.54	367.22	366.89	366.67
0.6	367.56	367.66	367.87	368.08	367.76	367.44	367.22
0.7	368.04	368.15	368.36	368.57	368.26	367.94	367.73
0.8	368.49	368.60	368.82	369.03	368.72	368.41	368.20
0.9	368.89	369.01	369.23	369.45	369.14	368.84	368.63
CL PIER 1	369.26	369.38	369.60	369.83	369.53	369.22	369.02
0.1	369.60	369.72	369.95	370.18	369.88	369.58	369.39
0.2	369.89	370.03	370.26	370.49	370.20	369.90	369.71
0.3	370.15	370.28	370.52	370.76	370.47	370.18	369.99
0.4	370.36	370.50	370.74	370.98	370.70	370.41	370.23
0.5	370.52	370.67	370.92	371.16	370.88	370.60	370.42
0.6	370.65	370.80	371.05	371.30	371.02	370.75	370.57
0.7	370.73	370.88	371.14	371.39	371.12	370.85	370.68
0.8	370.76	370.92	371.18	371.44	371.18	370.91	370.74
0.9	370.76	370.92	371.18	371.45	371.19	370.92	370.77
CL PIER 2	370.70	370.87	371.14	371.41	371.15	370.90	370.74
0.1	370.55	370.73	371.00	371.28	371.03	370.78	370.63
0.2	370.31	370.49	370.78	371.06	370.81	370.57	370.43
0.3	369.98	370.16	370.45	370.74	370.51	370.27	370.13
0.4	369.55	369.74	370.04	370.34	370.11	369.87	369.75
0.5	369.03	369.23	369.54	369.84	369.61	369.39	369.27
0.6	368.42	368.63	368.94	369.25	369.03	368.81	368.70
0.7	367.72	367.93	368.25	368.57	368.35	368.14	368.03
0.8	366.93	367.15	367.47	367.79	367.59	367.38	367.28
0.9	366.04	366.27	366.60	366.93	366.73	366.53	366.43
CL PIER 3	365.06	365.30	365.63	365.97	365.78	365.58	365.50
0.1	364.23	364.47	364.81	365.16	364.97	364.78	364.70
0.2	363.35	363.59	363.94	364.29	364.11	363.92	363.85
0.3	362.41	362.66	363.01	363.36	363.19	363.01	362.94
0.4	361.45	361.70	362.05	362.40	362.23	362.05	361.98
0.5	360.49	360.74	361.09	361.44	361.27	361.09	361.02
0.6	359.53	359.78	360.13	360.48	360.31	360.13	360.06
0.7	358.57	358.82	359.17	359.52	359.34	359.17	359.10
0.8	357.60	357.85	358.21	358.56	358.38	358.21	358.14
0.9	356.64	356.89	357.24	357.60	357.42	357.25	357.18
CL BRG ABUT 2	355.68	355.93	356.28	356.64	356.46	356.29	356.21

NOTES
1. FOR TYPICAL SECTION WITH ELEVATION LOCATIONS, SEE SHEET 8.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

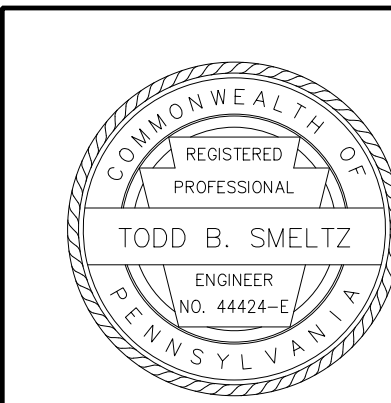
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

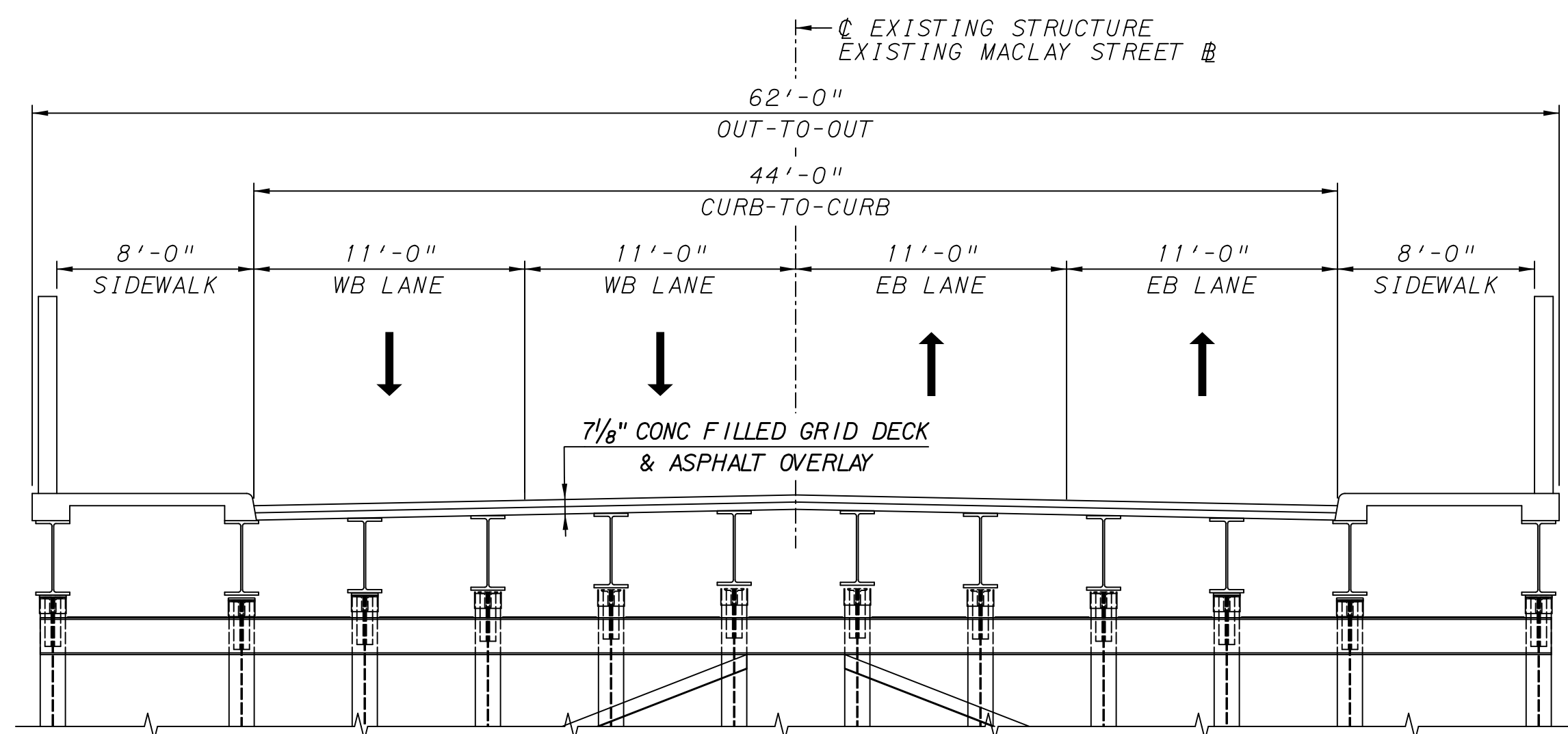
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
DECK ELEVATION TABLES

RECOMMENDED _____ 2026.05.15

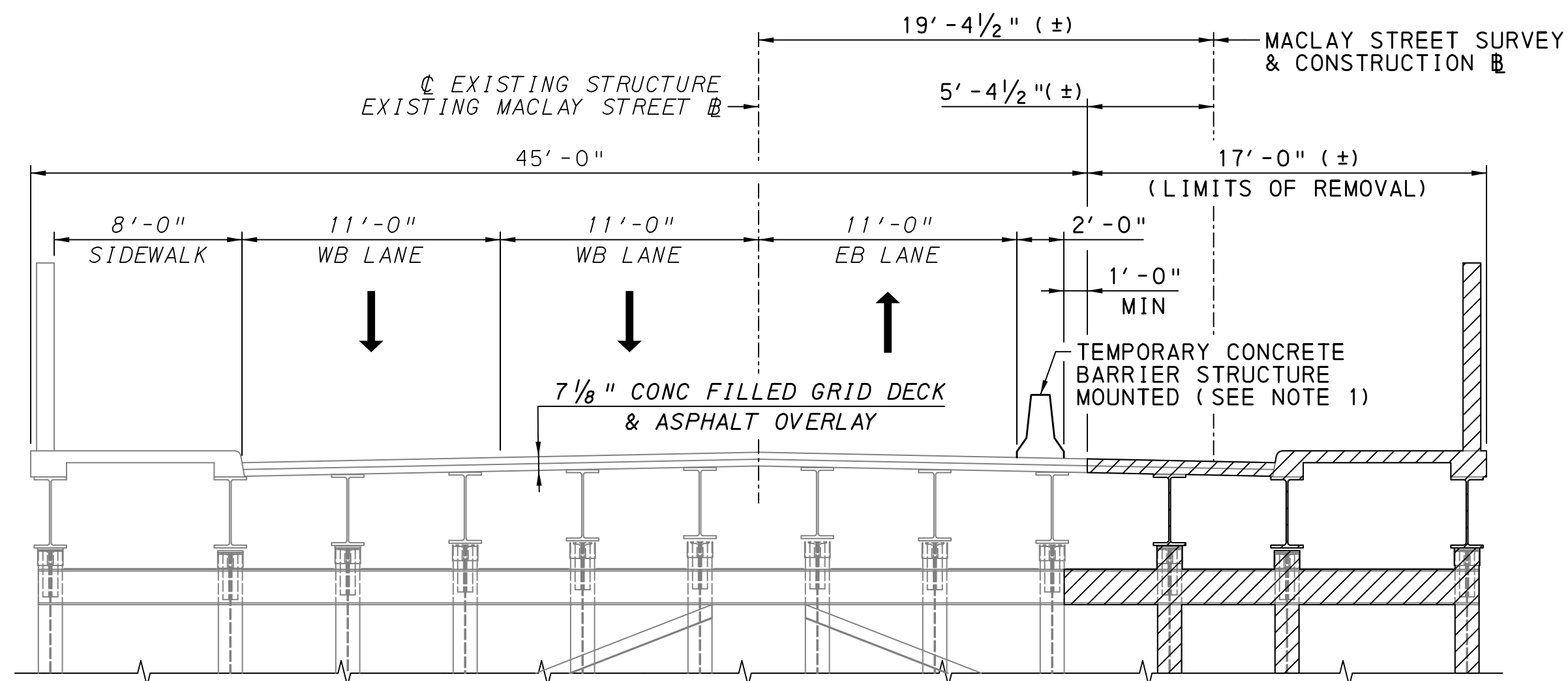
SHEET 9 OF 97

S-42336





EXISTING STRUCTURE
(LOOKING STATION AHEAD)

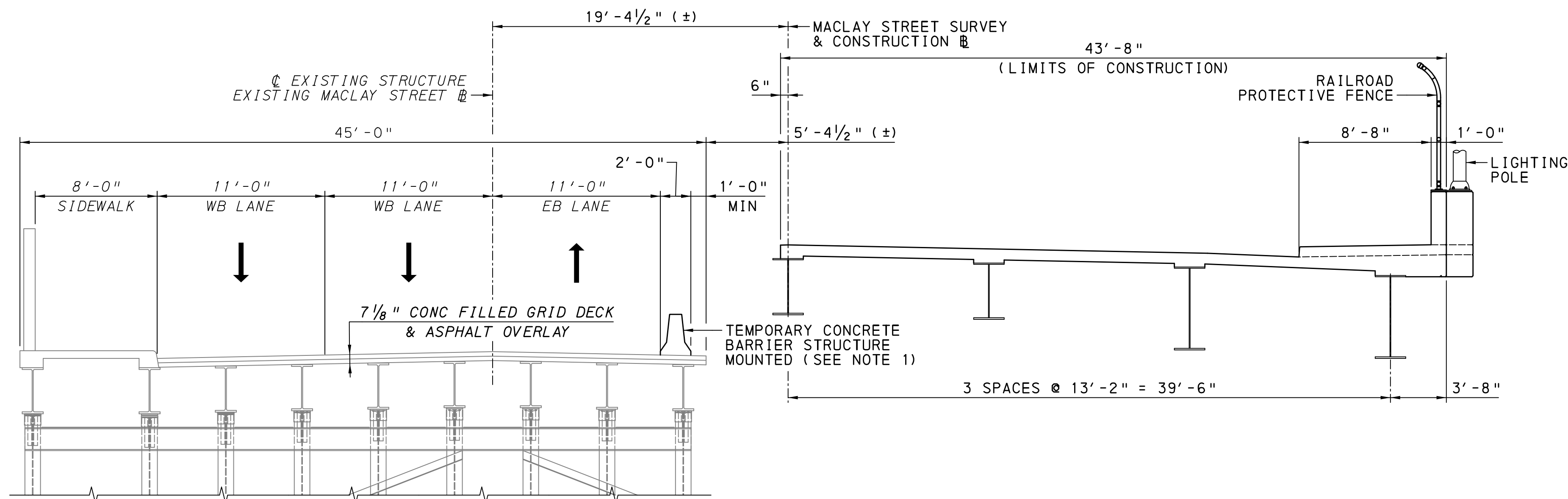


STAGE 1B - REMOVAL
(LOOKING STATION AHEAD)



STAGE 1B CONSTRUCTION SEQUENCE

1. MAINTAIN TRAFFIC ON NORTHERN PORTION OF EXISTING STRUCTURE.
2. REMOVE SOUTHERN PORTION OF EXISTING STRUCTURE.
3. CONSTRUCT SOUTHERN PORTION OF PROPOSED STRUCTURE.



STAGE 1B - CONSTRUCTION
(LOOKING STATION AHEAD)



NOTES

1. BOLT TEMPORARY CONCRETE STRUCTURE MOUNTED BARRIER TO THE EXISTING DECK BY TYPE 1 INSTALLATION CRITERIA UTILIZING BOLT THROUGH ANCHORS. FOR ADDITIONAL TEMPORARY CONCRETE BARRIER DETAILS AND NOTES, SEE BC-719M. TEMPORARY STEEL STRUCTURE MOUNTED BARRIER, 2'-0" MAX WIDTH, TEST LEVEL 3, AND BARRIER DEFLECTION DISTANCE LESS THAN OR EQUAL TO 3" (AT BASE) IS PERMITTED TO BE USED ON THE EXISTING CONCRETE DECK. TEMPORARY CONCRETE OR STEEL STRUCTURE MOUNTED BARRIERS ARE ROADWAY ITEMS.
2. FOR BRIDGE CONSTRUCTION TEMPORARY TRAFFIC CONTROL STAGING AND PHASING, SEE TRAFFIC CONTROL PLANS.
3. FOR ADDITIONAL RAILROAD PROTECTIVE FENCE, CURVED TOP, STEEL DETAILS AND NOTES, SEE BC-701M.

LEGEND

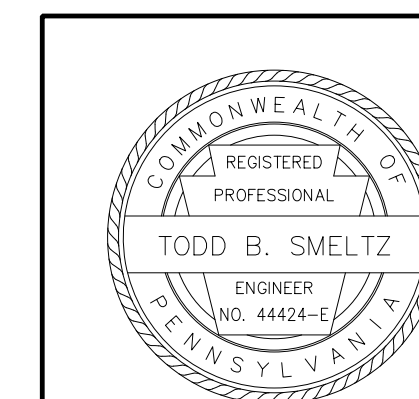
EXISTING STRUCTURE REMOVAL LIMITS

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

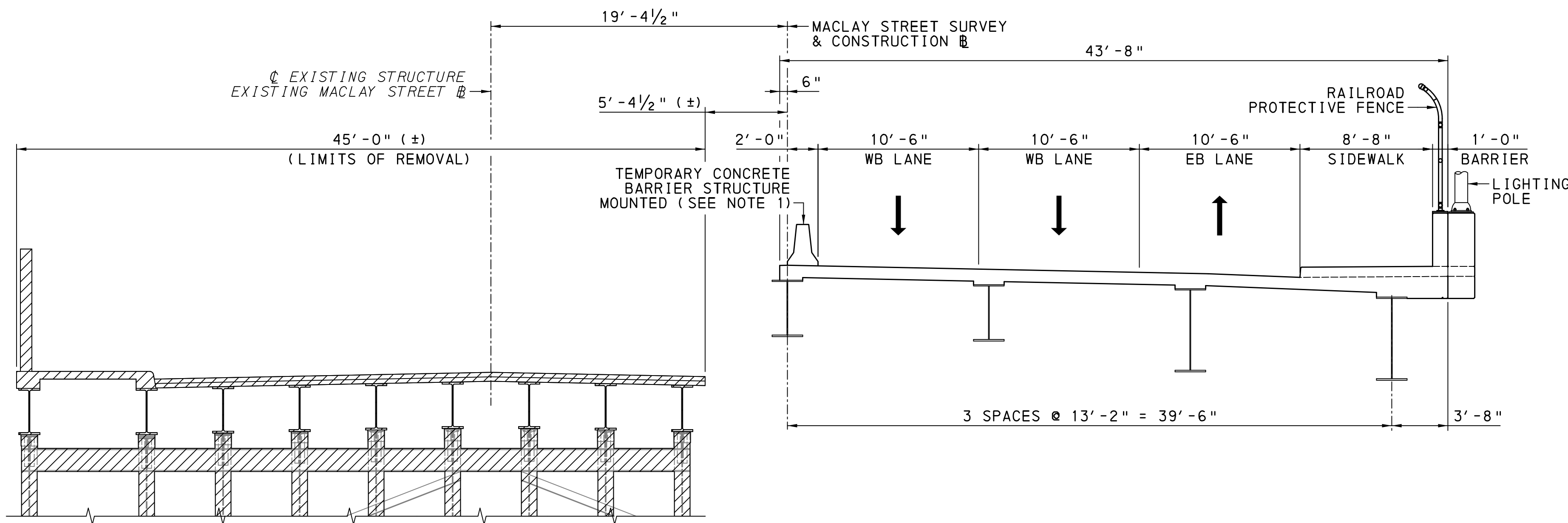
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
CONSTRUCTION STAGING - 1



RECOMMENDED 2026.05.15

SHEET 10 OF 97

S-42336

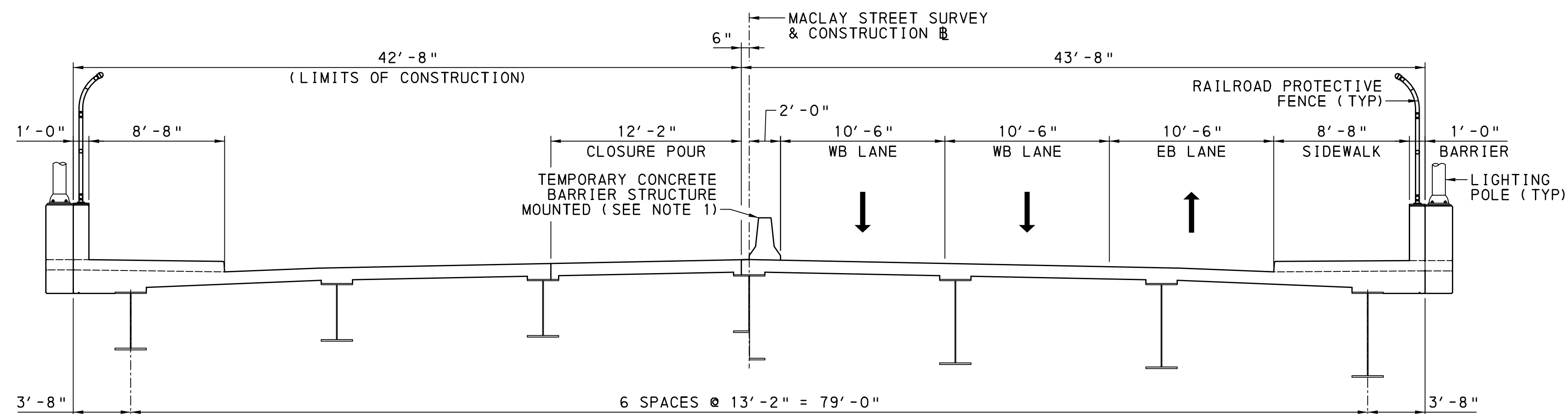


STAGE 2 - REMOVAL
(LOOKING STATION AHEAD)

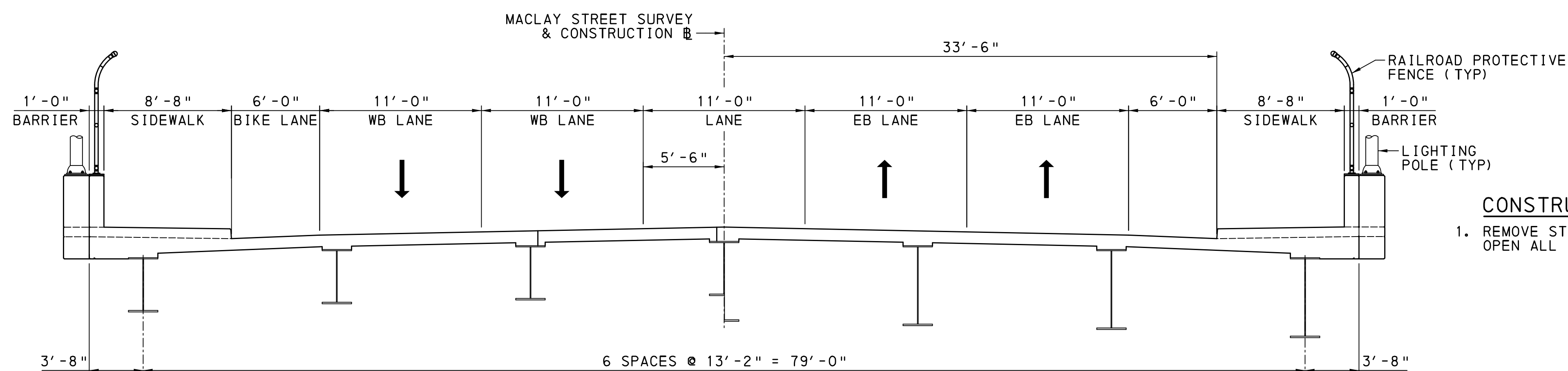
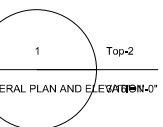
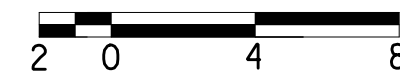


STAGE 2 CONSTRUCTION SEQUENCE

1. MAINTAIN TRAFFIC ON CONSTRUCTED SOUTHERN PORTION OF PROPOSED STRUCTURE.
2. REMOVE REMAINING PORTION OF EXISTING STRUCTURE.
3. CONSTRUCT REMAINING NORTHERN PORTION OF PROPOSED STRUCTURE.
4. CLOSE WB THRU LANE USING SHORT TERM LANE CLOSURES AS NECESSARY DURING CLOSURE POUR.



STAGE 2 - CONSTRUCTION
(LOOKING STATION AHEAD)



STAGE 3 - CONSTRUCTION
(LOOKING STATION AHEAD)



STAGE 3 CONSTRUCTION SEQUENCE

1. REMOVE STAGE 2 TEMPORARY BARRIER. OPEN ALL LANES OF TRAFFIC.

NOTES

1. BOLT TEMPORARY CONCRETE STRUCTURE MOUNTED BARRIER TO THE DECK BY TYPE 1 INSTALLATION CRITERIA. FOR ADDITIONAL TEMPORARY CONCRETE BARRIER DETAILS AND NOTES, SEE BC-719M. TEMPORARY STEEL STRUCTURE MOUNTED BARRIER, 2'-0" MAX WIDTH, TEST LEVEL 3, AND BARRIER DEFLECTION DISTANCE LESS THAN OR EQUAL TO 3" (AT BASE) IS PERMITTED TO BE USED ON THE CONCRETE DECK. TEMPORARY CONCRETE OR STEEL STRUCTURE MOUNTED BARRIERS ARE ROADWAY ITEMS.
2. FOR BRIDGE CONSTRUCTION TEMPORARY TRAFFIC CONTROL STAGING AND PHASING, SEE TRAFFIC CONTROL PLANS.
3. FOR ADDITIONAL RAILROAD PROTECTIVE FENCE, CURVED TOP, STEEL DETAILS AND NOTES, SEE BC-701M.

LEGEND

EXISTING STRUCTURE REMOVAL LIMITS

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

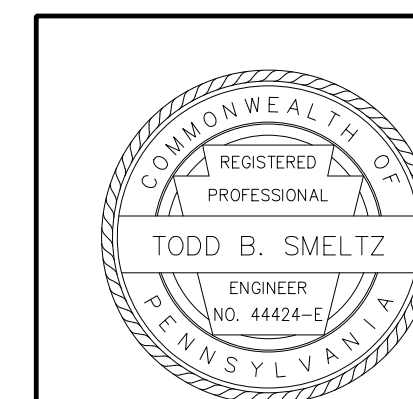
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

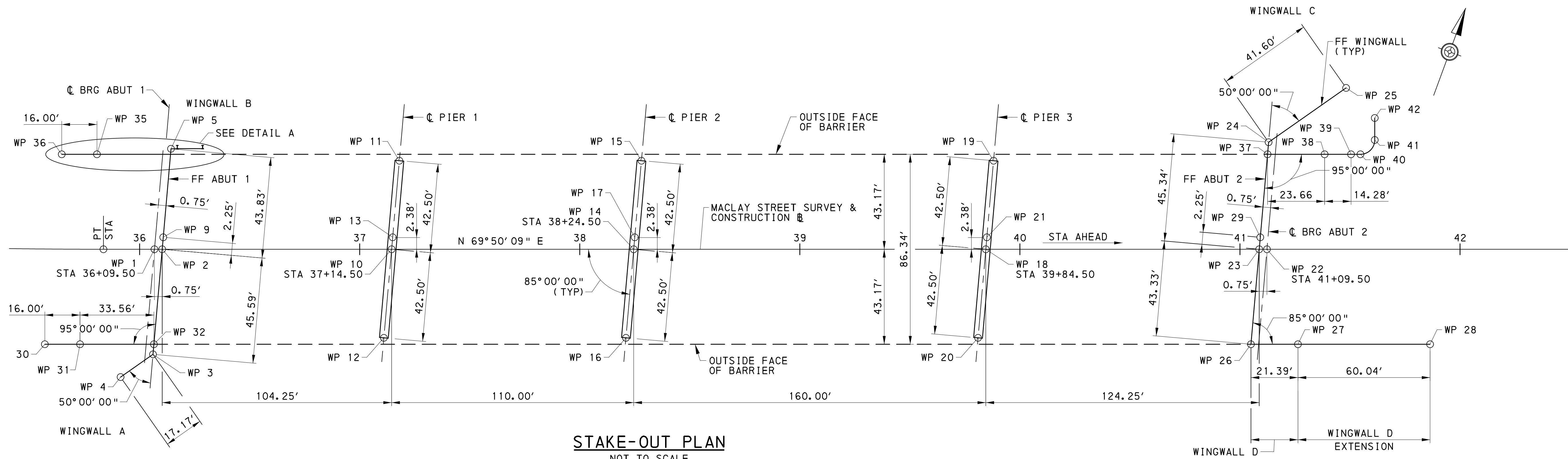
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
CONSTRUCTION STAGING - 2

RECOMMENDED 2026.05.15

SHEET 11 OF 97

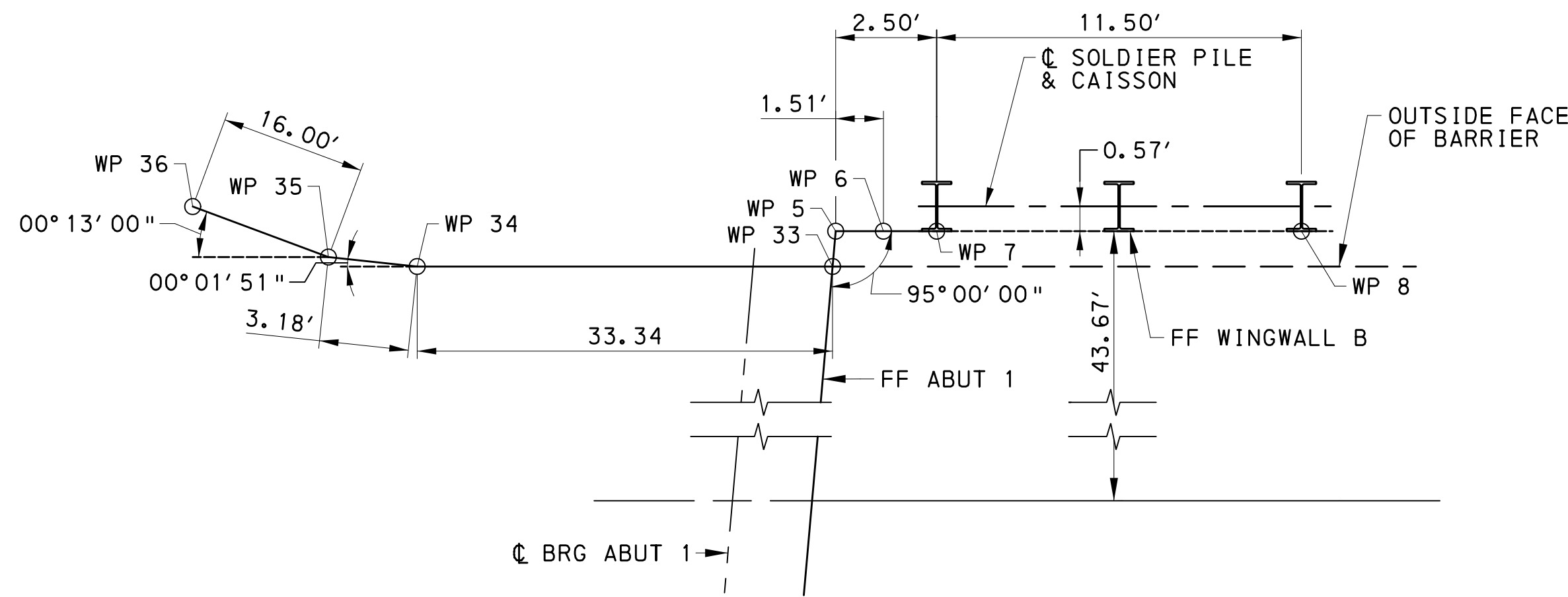
S-42336





STAKE-OUT PLAN
NOT TO SCALE

WP	MACLAY STREET SURVEY & CONSTR		COORDINATES	
	STATION	OFFSET	NORTHING	EASTING
1	36+09.50	0.00'	346476.8785	2209123.9270
2	36+10.25	0.00'	346477.1381	2209124.6337
3	36+06.28	45.41' RT	346433.1378	2209136.5589
4	35+92.21	55.26' RT	346419.0437	2209126.7502
5	36+14.07	43.67' LT	346519.4453	2209113.1674
6	36+15.58	43.67' LT	346519.9643	2209114.5808
7	36+16.57	43.67' LT	346520.3070	2209115.5141
8	36+28.07	43.67' LT	346524.2712	2209126.3093
9	36+10.45	2.24' LT	346479.3097	2209124.0451
10	37+14.50	0.00'	346513.0734	2209222.4913
11	37+18.20	42.34' LT	346554.0936	2209211.3738
12	37+10.80	42.34' RT	346472.0533	2209233.6088
13	37+14.71	2.38' LT	346515.3745	2209221.8677
14	38+24.50	0.00'	346550.9919	2209325.7492
15	38+28.20	42.34' LT	346592.0120	2209314.6317
16	38+20.80	42.34' RT	346509.9718	2209336.8667
17	38+24.71	2.38' LT	346553.2929	2209325.1255
18	39+84.50	0.00'	346606.1460	2209475.9425
19	39+88.20	42.34' LT	346647.1662	2209464.8250
20	39+80.80	42.34' RT	346565.1259	2209487.0600
21	39+84.71	2.38' LT	346608.4471	2209475.3188
22	41+09.50	0.00'	346649.2352	2209593.2810
23	41+08.75	0.00'	346648.9757	2209592.5743
24	41+12.70	45.17' LT	346692.7361	2209580.7141
25	41+46.78	69.03' LT	346726.8801	2209604.4764
26	41+04.97	43.17' RT	346607.1529	2209603.9093
27	41+26.36	43.17' RT	346614.5249	2209623.9845
28	41+86.40	43.17' RT	346635.2221	2209680.3461
29	41+08.94	2.24' LT	346651.1473	2209591.9857
30	35+57.20	43.28' RT	346418.1969	2209089.3526
31	35+72.97	43.19' RT	346423.7123	2209104.3720
32	36+06.48	43.17' RT	346435.3153	2209135.9687
33	36+14.03	43.17' LT	346518.9608	2209113.2987
34	35+83.55	43.17' LT	346508.4558	2209084.6919
35	35+80.33	43.17' LT	346507.3607	2209081.7047
36	35+64.09	43.17' LT	346501.9021	2209066.6646
37	41+12.52	43.17' LT	346690.7984	2209581.2392
38	41+36.18	43.17' LT	346698.9543	2209603.4489
39	41+50.46	43.17' LT	346703.8752	2209616.8493
40	41+54.73	43.17' LT	346705.3474	2209620.8584
41	41+61.36	49.53' LT	346713.6088	2209624.8873
42	41+68.57	56.46' LT	346722.5969	2209629.2707



DETAIL A
NOT TO SCALE

POINT	STATION	COORDINATES		BEARING
		NORTHING	EASTING	
PT	35+83.55	346467.9349	2209099.5720	N 69°50'09" E
PC	44+71.64	346774.0686	2209933.2217	

NOTES

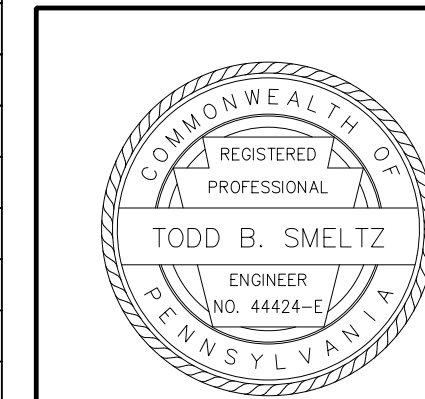
- WORK POINT COORDINATES PROVIDED TO FOUR DECIMAL PLACES FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO DECIMAL PLACES.
- OFFSET IS MEASURED RADIALLY OR PERPENDICULAR TO MACLAY STREET SURVEY & CONSTRUCTION LOOKING AHEAD STATIONS.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STAKE-OUT PLAN

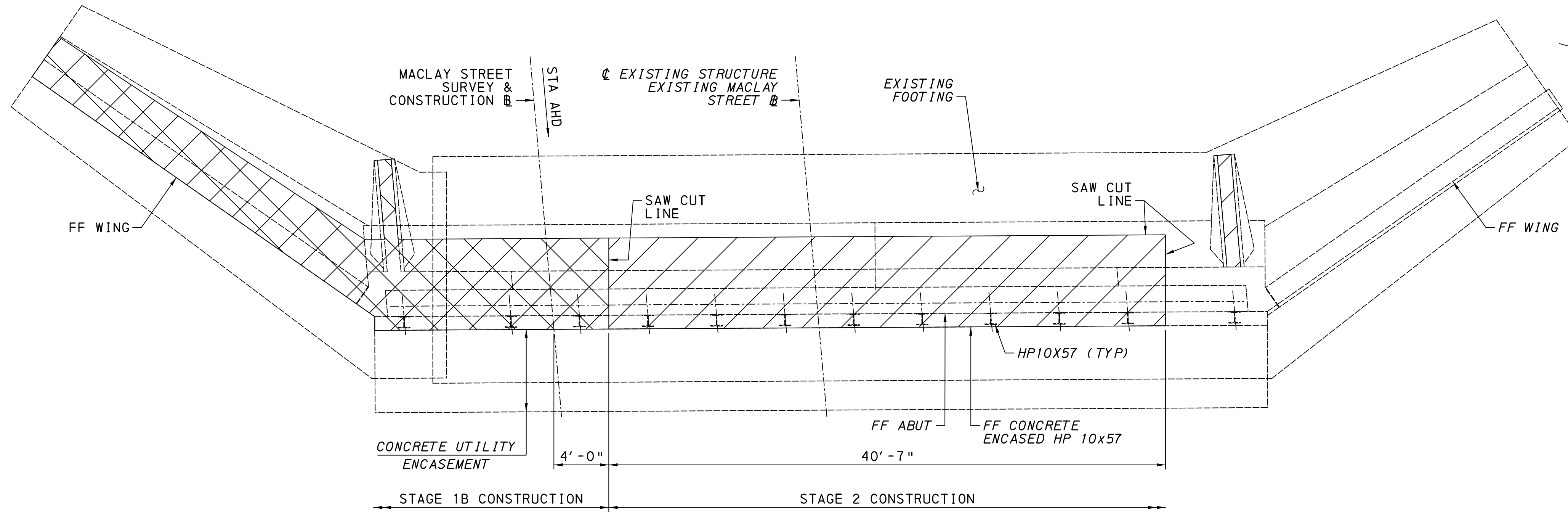


RECOMMENDED 2026.05.15

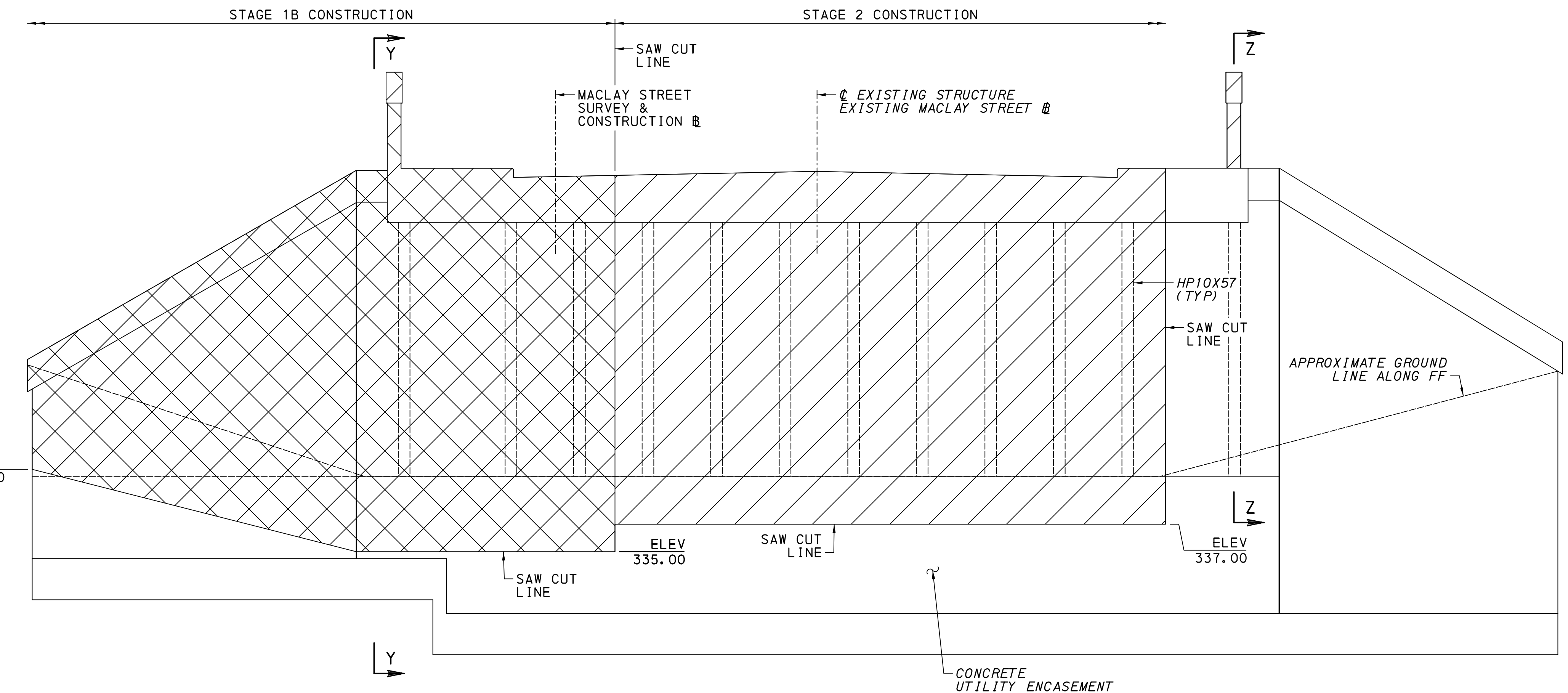
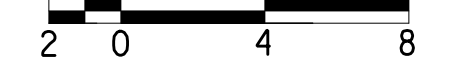
SHEET 12 OF 97

S-42336

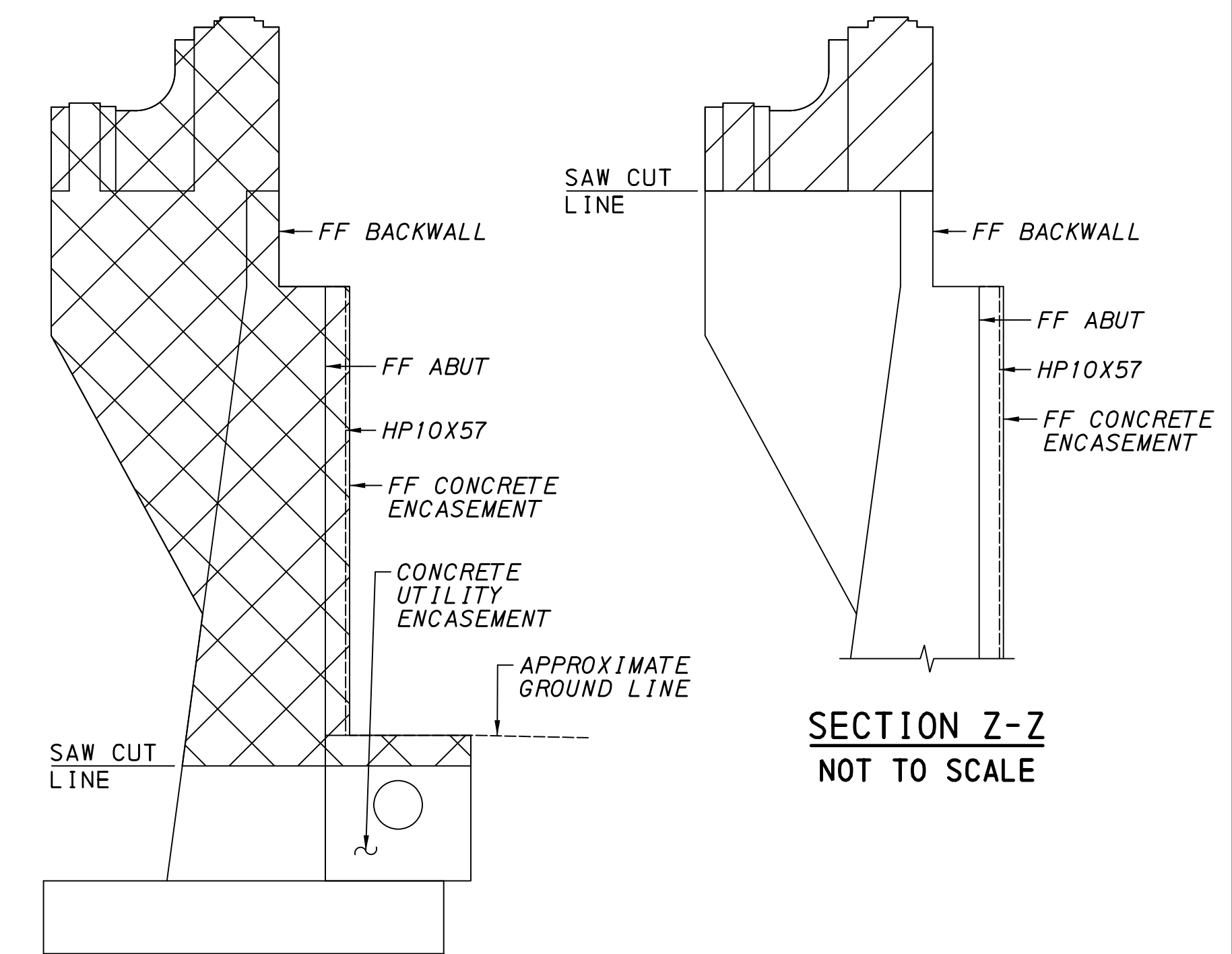
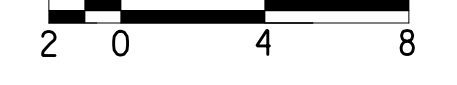
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EXISTING ABUTMENT 1 REMOVAL PLAN



EXISTING ABUTMENT 1 REMOVAL ELEVATION



**SECTION Y-Y
NOT TO SCALE**

**SECTION Z-Z
NOT TO SCALE**

LEGEND

- STAGE 1B REMOVAL LIMITS
- STAGE 2 REMOVAL LIMITS

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

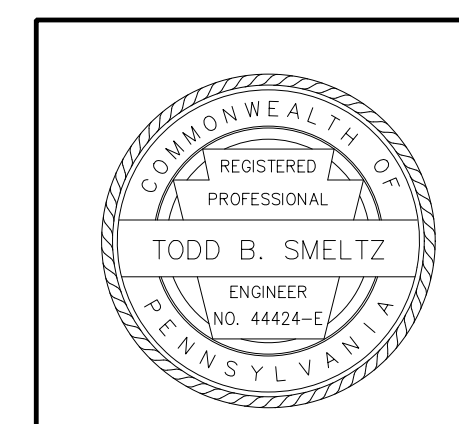
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
EXISTING ABUTMENT 1 REMOVAL

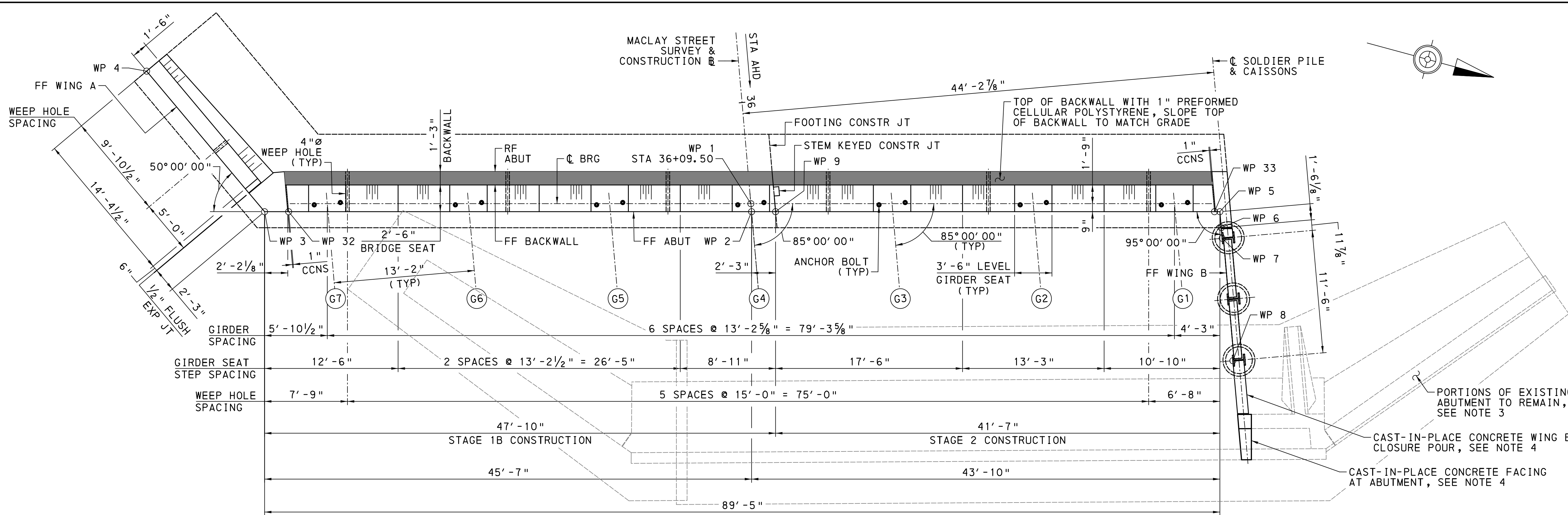
RECOMMENDED 2026.05.15

SHEET 13 OF 97

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PLAN
 2 0 4 8

NOTES

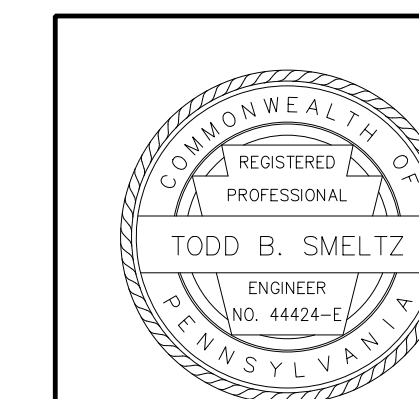
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR EXISTING ABUTMENT AND WING WALL REINFORCED CONCRETE REPAIR AREAS, SEE SHEET 18.
4. FOR WING B CAST-IN-PLACE CONCRETE PLACEMENT DETAILS, SEE SHEET 19.
5. FOR ANCHOR BOLT CONCRETE EMBEDMENT, SEE SHEET 55.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 1 PLAN

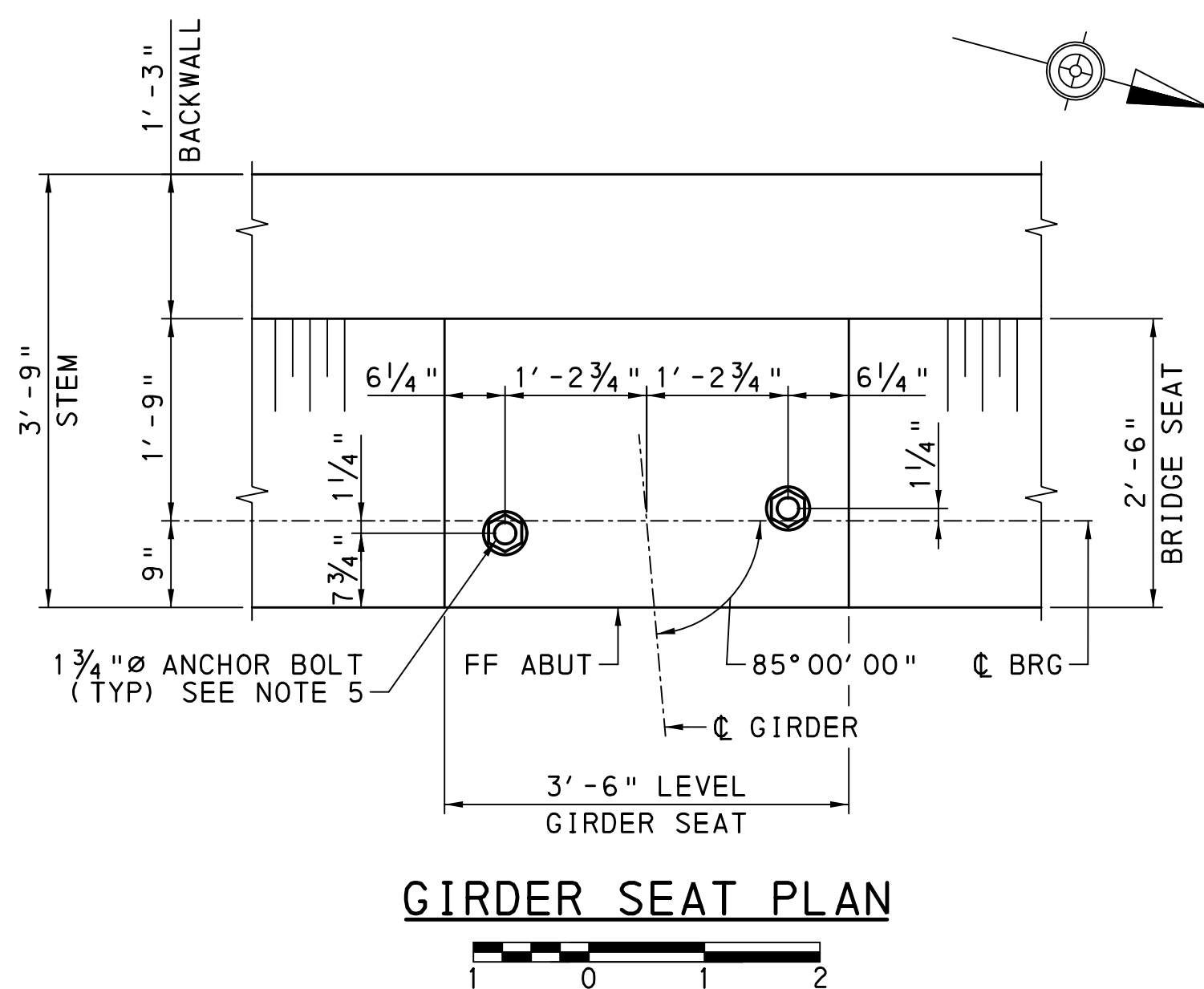


RECOMMENDED 2026.05.15

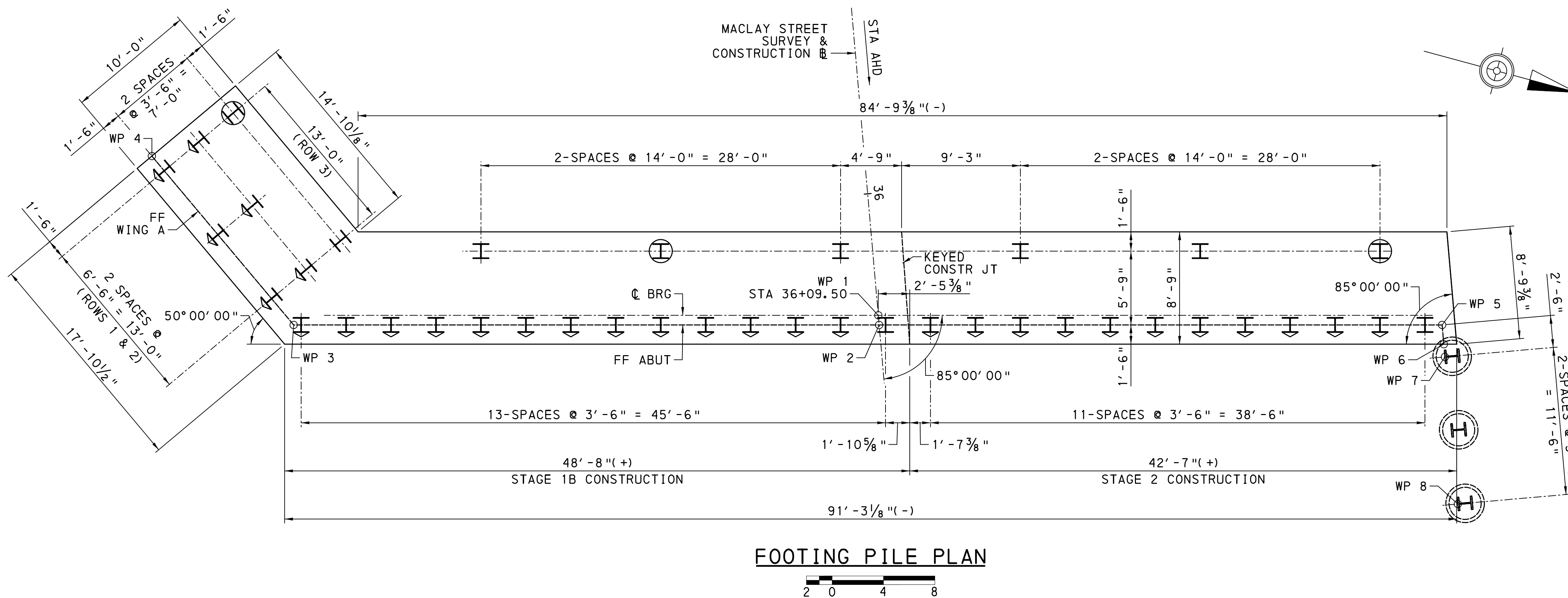
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S-42336

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GIRDER SEAT PLAN
 1 0 1 2



LEGEND

- DENOTES HP 14x89 VERTICAL PILE.
- DENOTES HP 14x89 BATTERED PILE.
- DENOTES HP 14x89 TEST PILE.

FOUNDATION DESIGN DATA TABLE		
FOUNDATION DESIGN PARAMETERS	ABUTMENT 1	WING A
FACTORED MAXIMUM AXIAL PILE LOAD	168.8 K/PILE	132.6 K/PILE
FACTORED AXIAL PILE RESISTANCE	185.0 K/PILE	
CONTROLLING LIMIT STATE	STR-III	STR-I
CONTROLLING MAX/MIN	MAXV-MINH	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	FINAL
FACTORED MAXIMUM LATERAL PILE LOAD	12.64 K/FT	13.56 K/FT
FACTORED LATERAL PILE RESISTANCE	12.82 K/FT	13.81 K/FT
CONTROLLING LIMIT STATE	STR-I	STR-I
CONTROLLING MAX/MIN	MAXIMUM	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	FINAL

SUMMARY OF CASSION FORCES	
CASSION DESIGN PARAMETERS	WING B
FACTORED AXIAL RESISTANCE (STR I)	653.62 K/CAISSON
AXIAL LOAD (STR I)	36.3 K/CAISSON
AXIAL RESISTANCE FACTOR	0.55
FACTORED LATERAL LOAD	57.9 K
SERVICE LATERAL DEFLECTION	0.44 IN
ALLOWABLE LATERAL DEFLECTION	0.50 IN

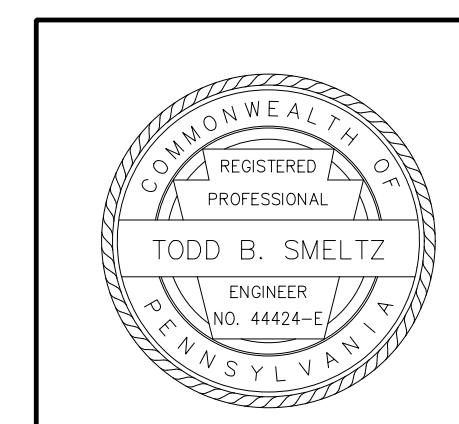
SUMMARY OF SOIL AND ROCK PARAMETERS					
	SOIL				ROCK
	LAYER 1	LAYER 2	LAYER 3	LAYER 4	
LAYER DEPTH (FT)	1.8	7.8	N/A	12.4	N/A
MOIST UNIT WEIGHT (PCF)	115.0	125.0	N/A	130.0	150.0
SATURATED UNIT WEIGHT (PCF)	120.0	130.0	N/A	135.0	155.0
EFFECTIVE FRICTION ANGLE (DEG)	32	35	N/A	38	N/A
COMPRESSIVE STRENGTH (DEG)	N/A				1293.0

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 1 FOOTING PILE PLAN

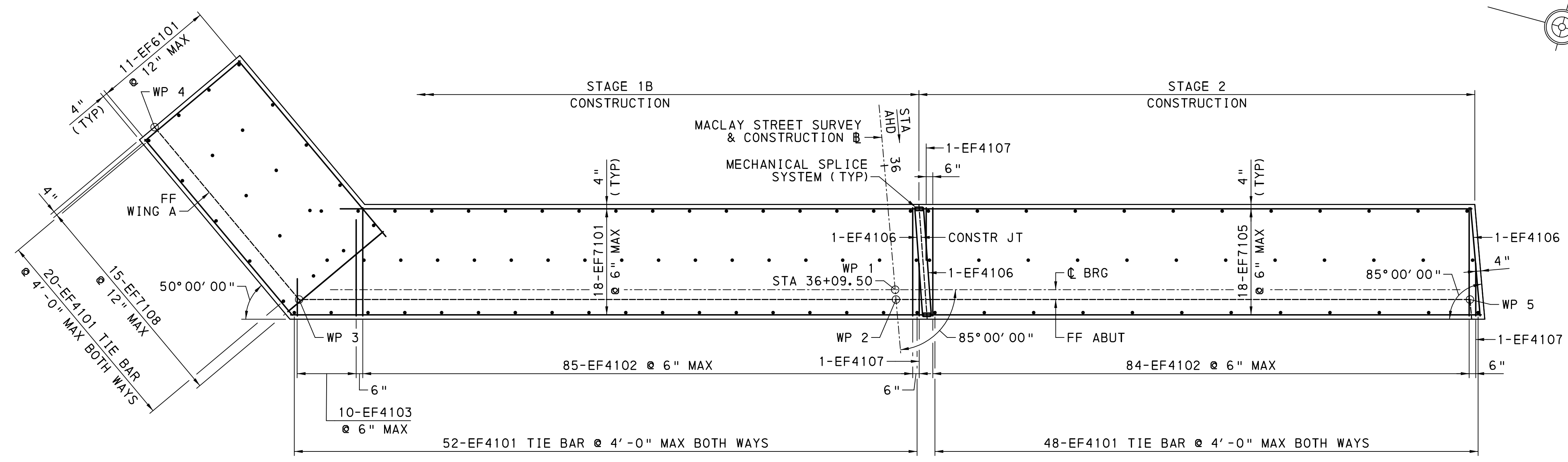
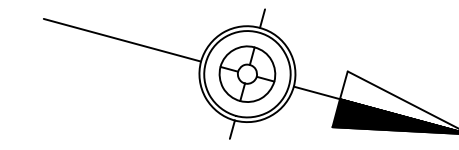


RECOMMENDED 2026.05.15

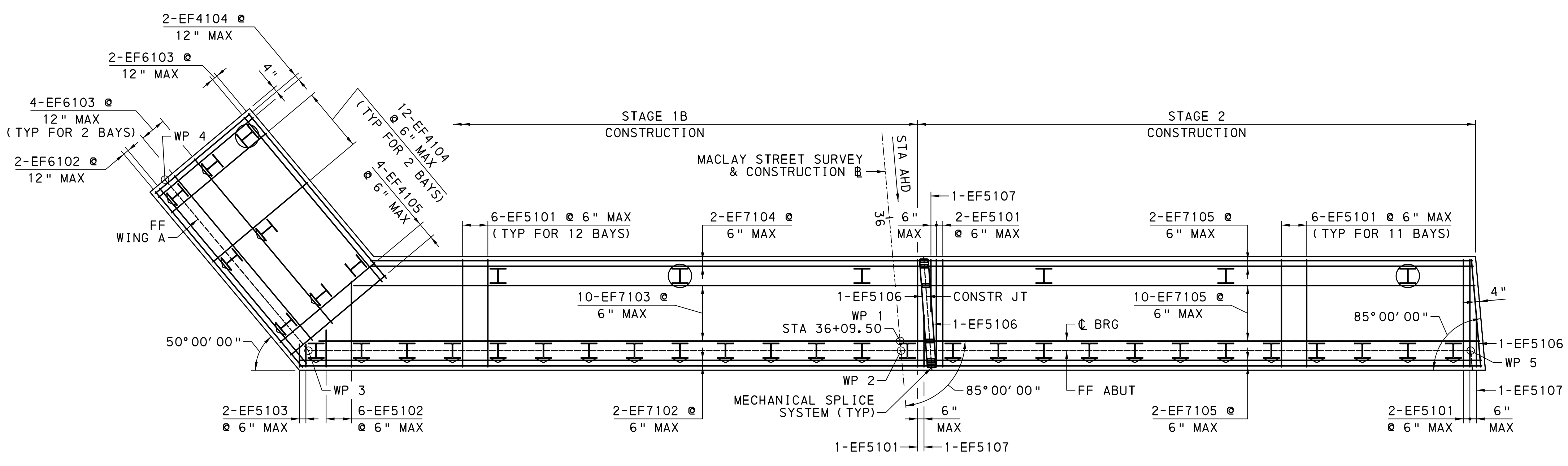
SHEET 15 OF 97

S-42336

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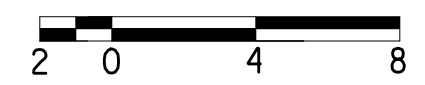


TOP BARS



BOTTOM BARS

FOOTING REINFORCEMENT PLAN



NOTES

- 1. FOR FOOTING AND PILE DIMENSIONS, SEE FOOTING PILE PLAN SHEET 15.

LEGEND

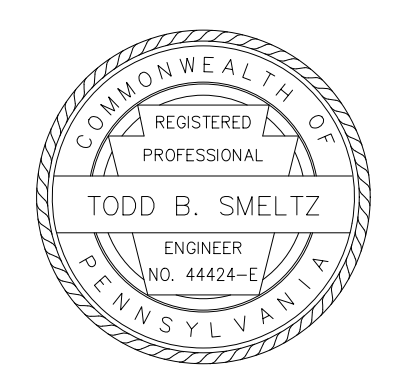
- DENOTES HP 14x89 VERTICAL PILE.
- DENOTES HP 14x89 BATTERED PILE.
- DENOTES HP 14x89 TEST PILE.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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DAUPHIN COUNTY
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 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 ABUTMENT 1 FOOTING REINFORCEMENT PLAN



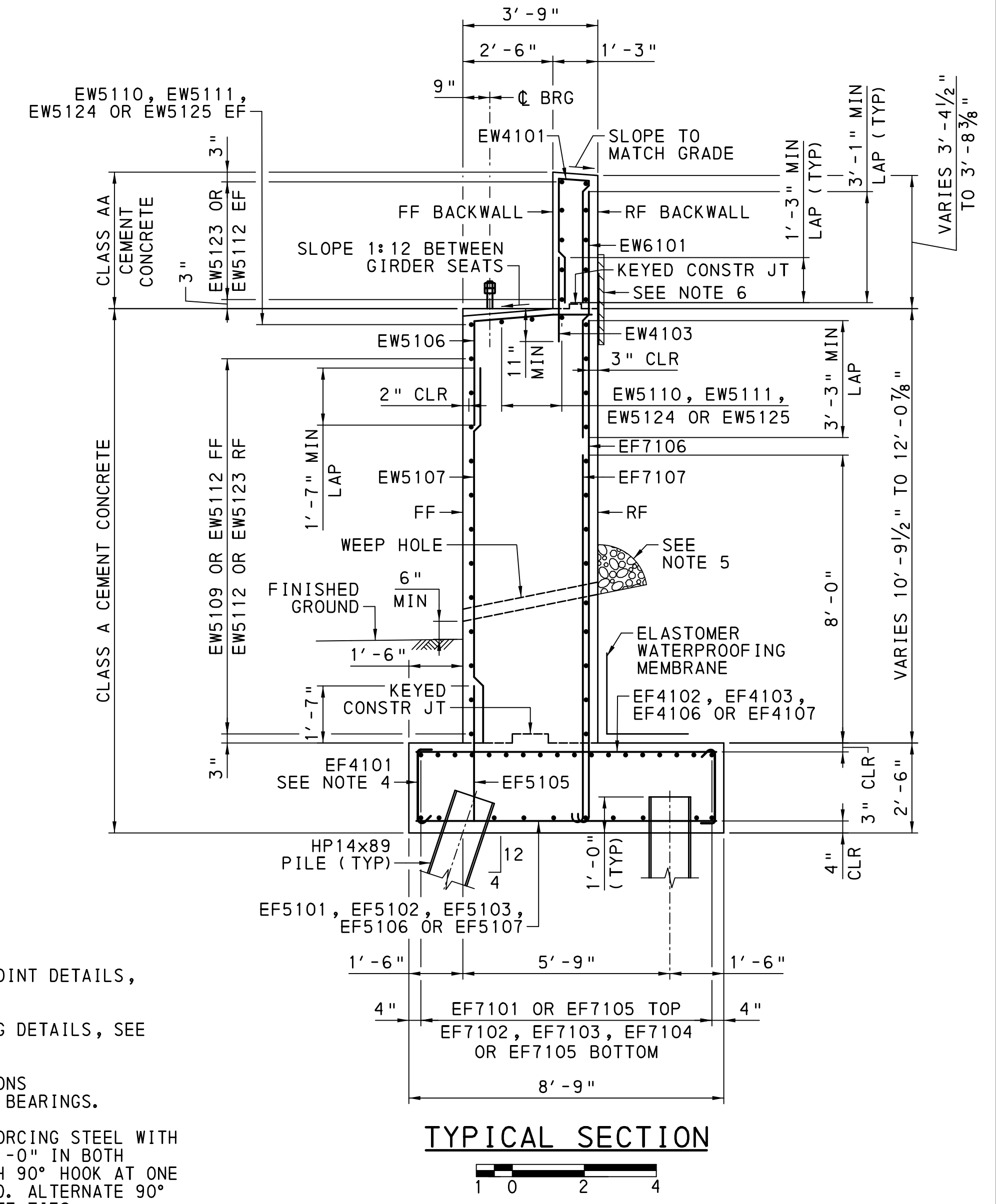
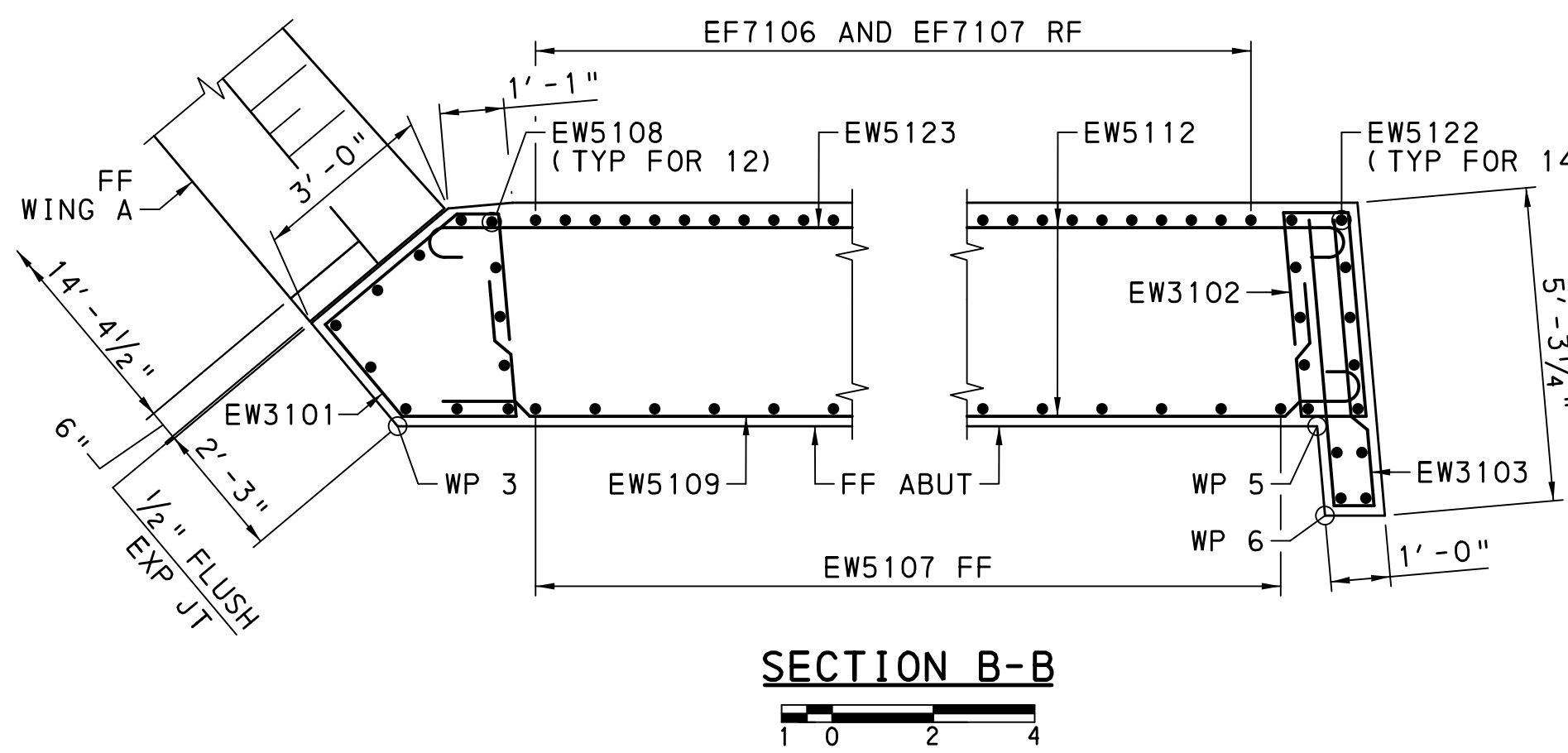
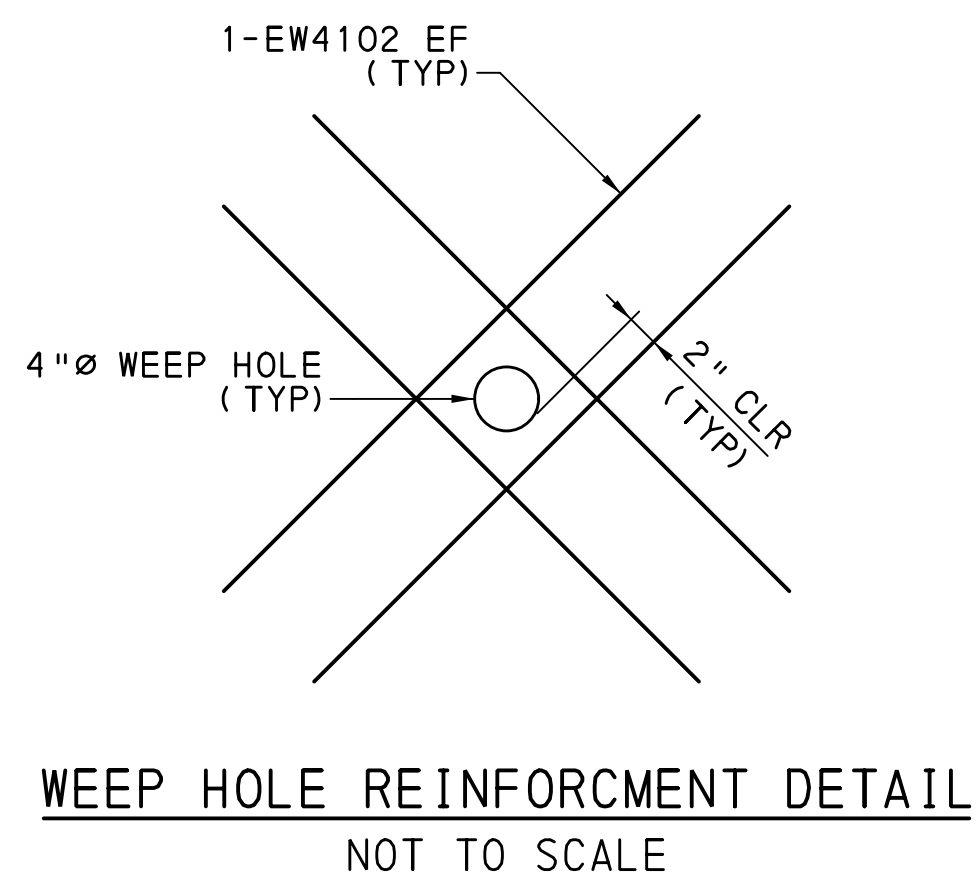
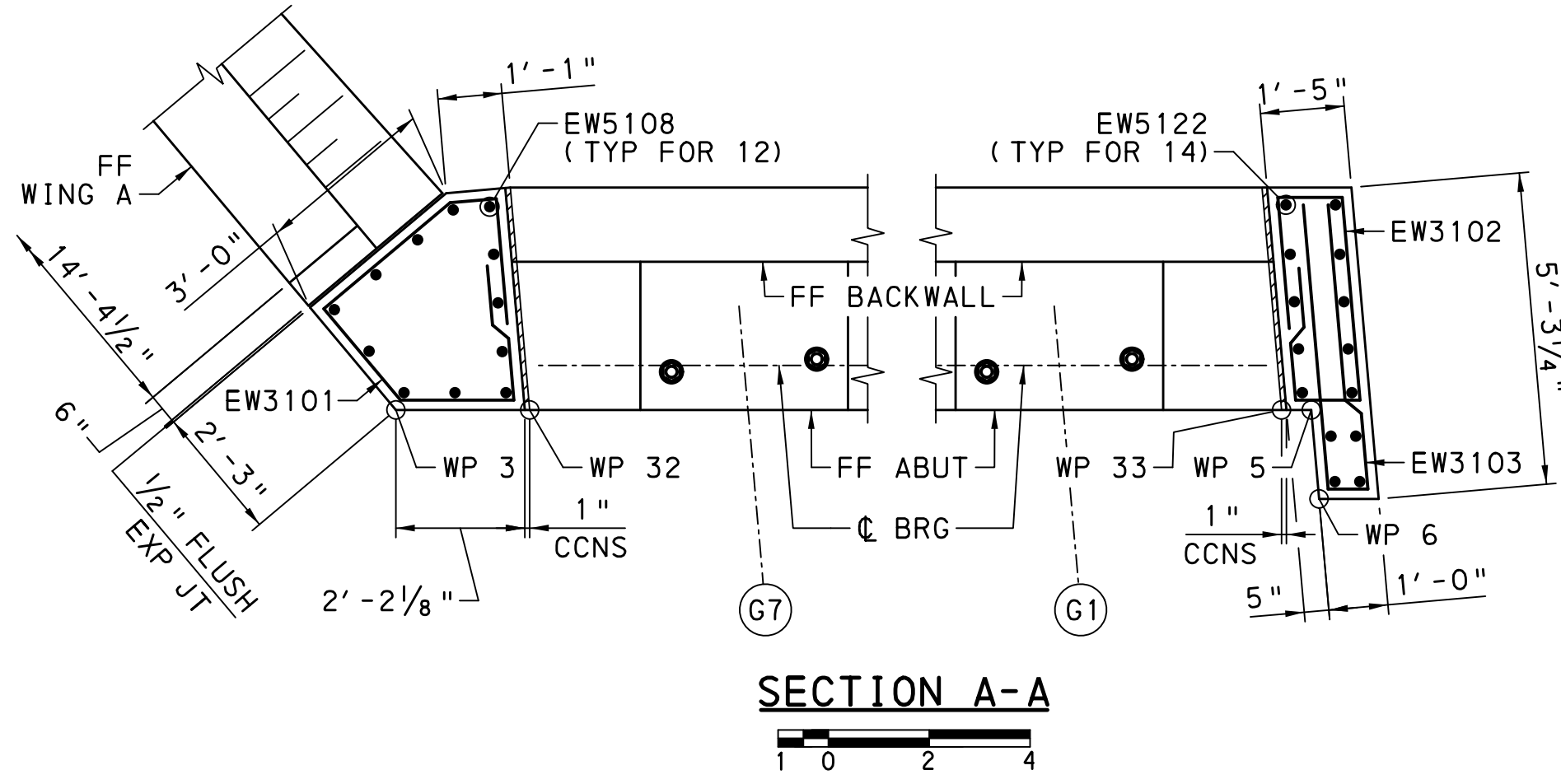
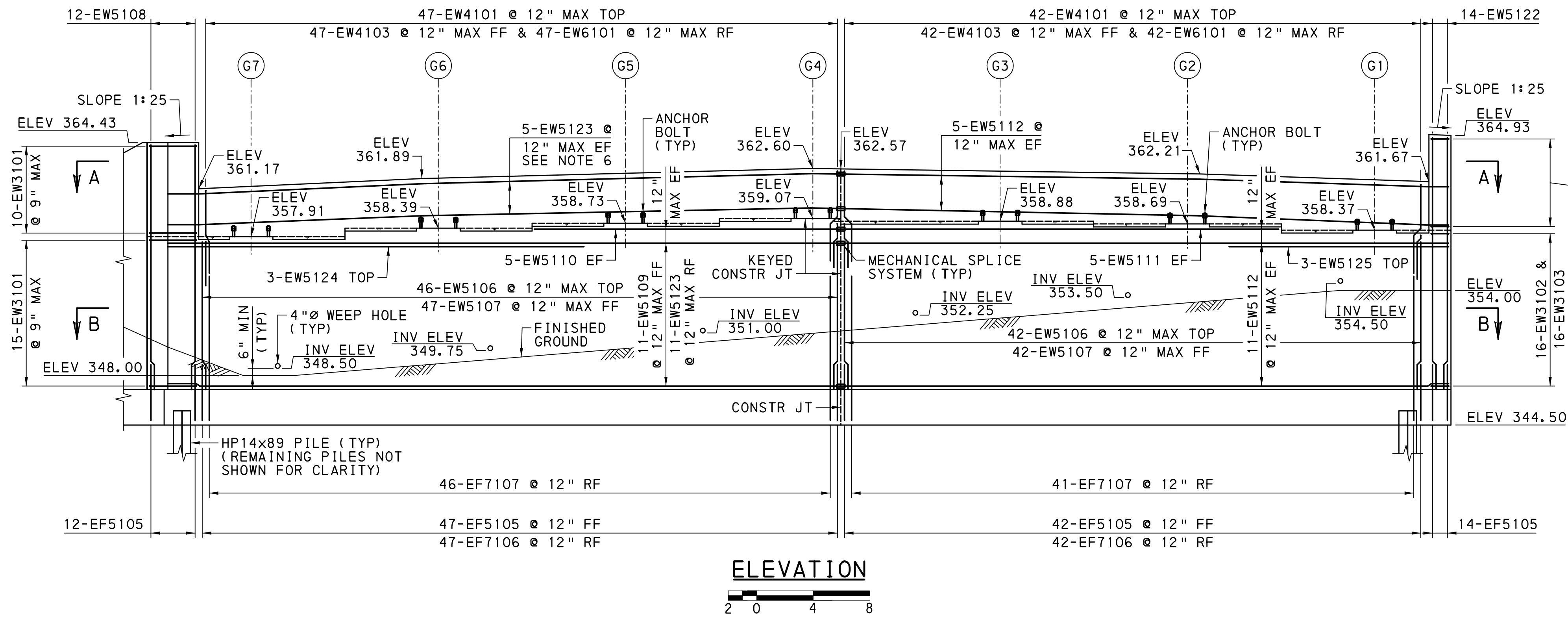
RECOMMENDED 2026.05.15

SHEET 16 OF 97

S-42336

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- NOTES**
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
 - FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.
 - ABUTMENT SEAT AND CORNER ELEVATIONS ARE LOCATED AT THE CENTERLINE OF BEARINGS.
 - TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH TIE BARS AT 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.
 - 1/2 CY NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408 SECTION 1001.3(c) & (d). SEE BC-751M FOR ADDITIONAL DETAILS.
 - 2" THICK PCP AND WATERPROOFING MEMBRANE.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

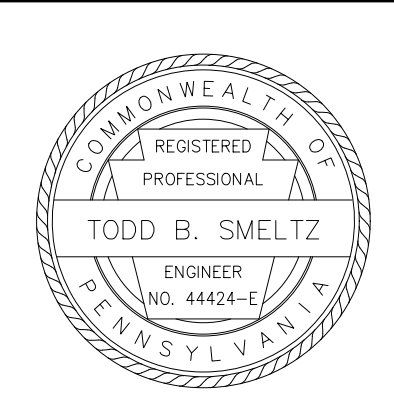
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 1 ELEVATION & SECTIONS

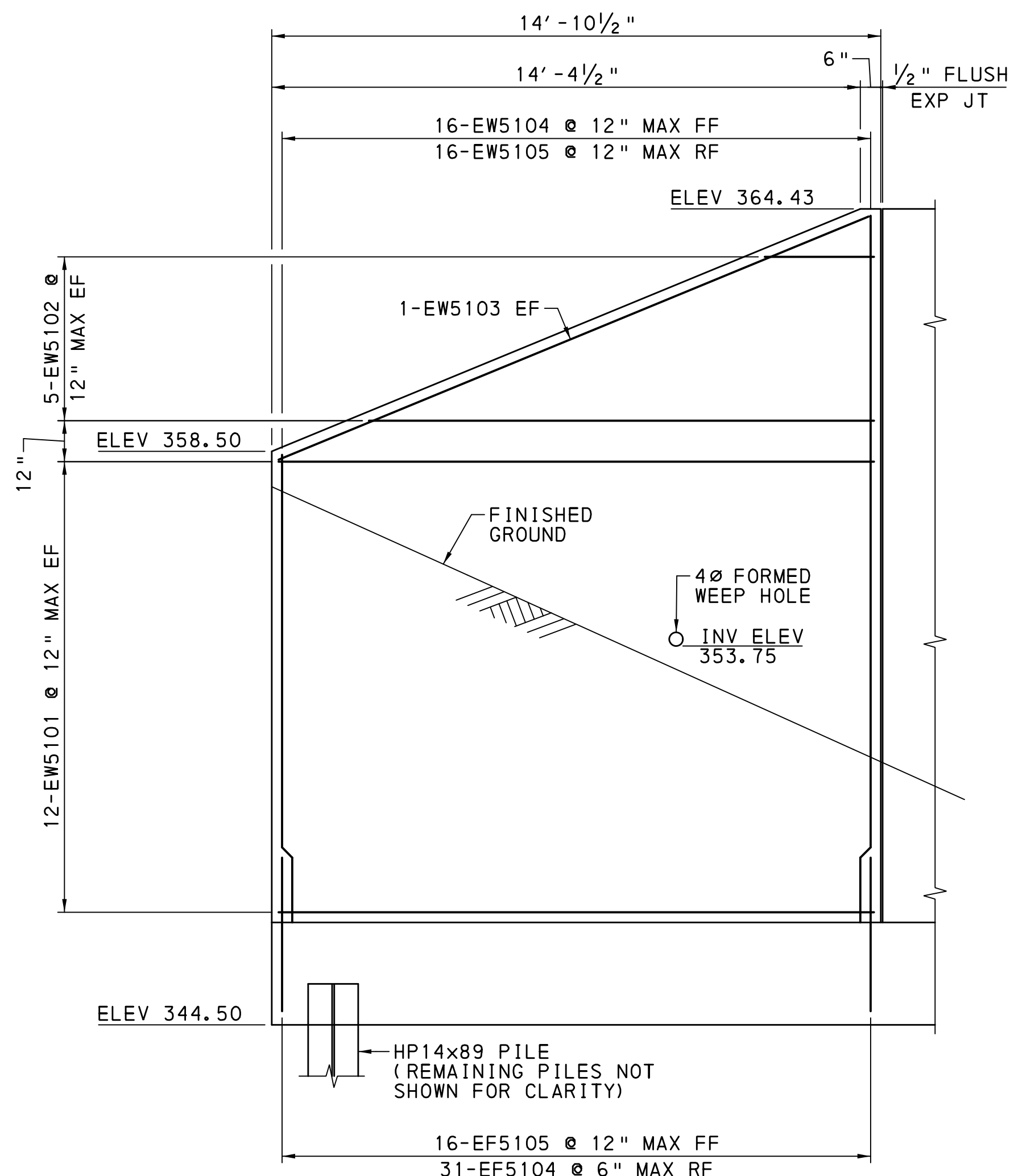
RECOMMENDED 2026.05.15

SHEET 17 OF 97

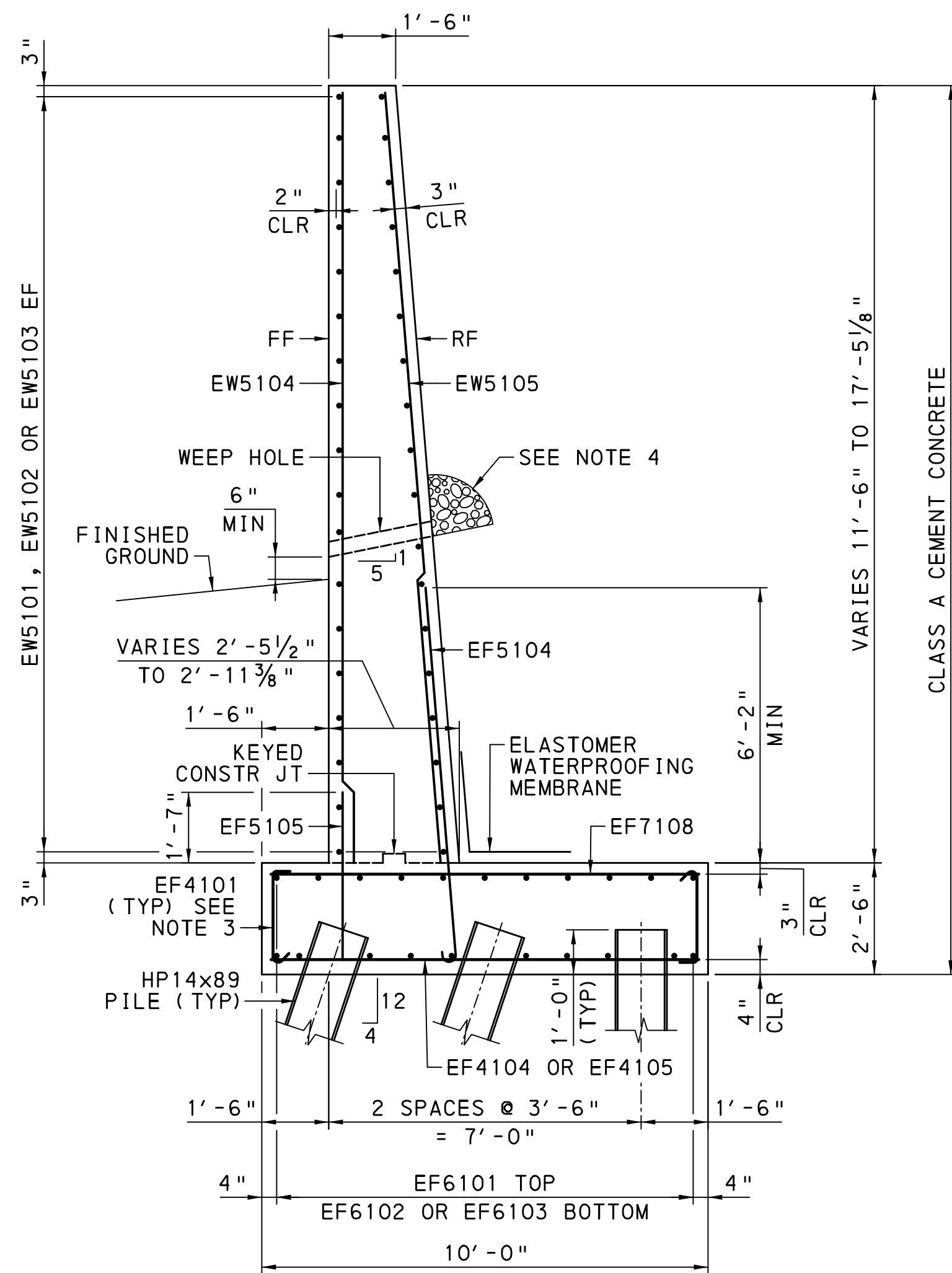
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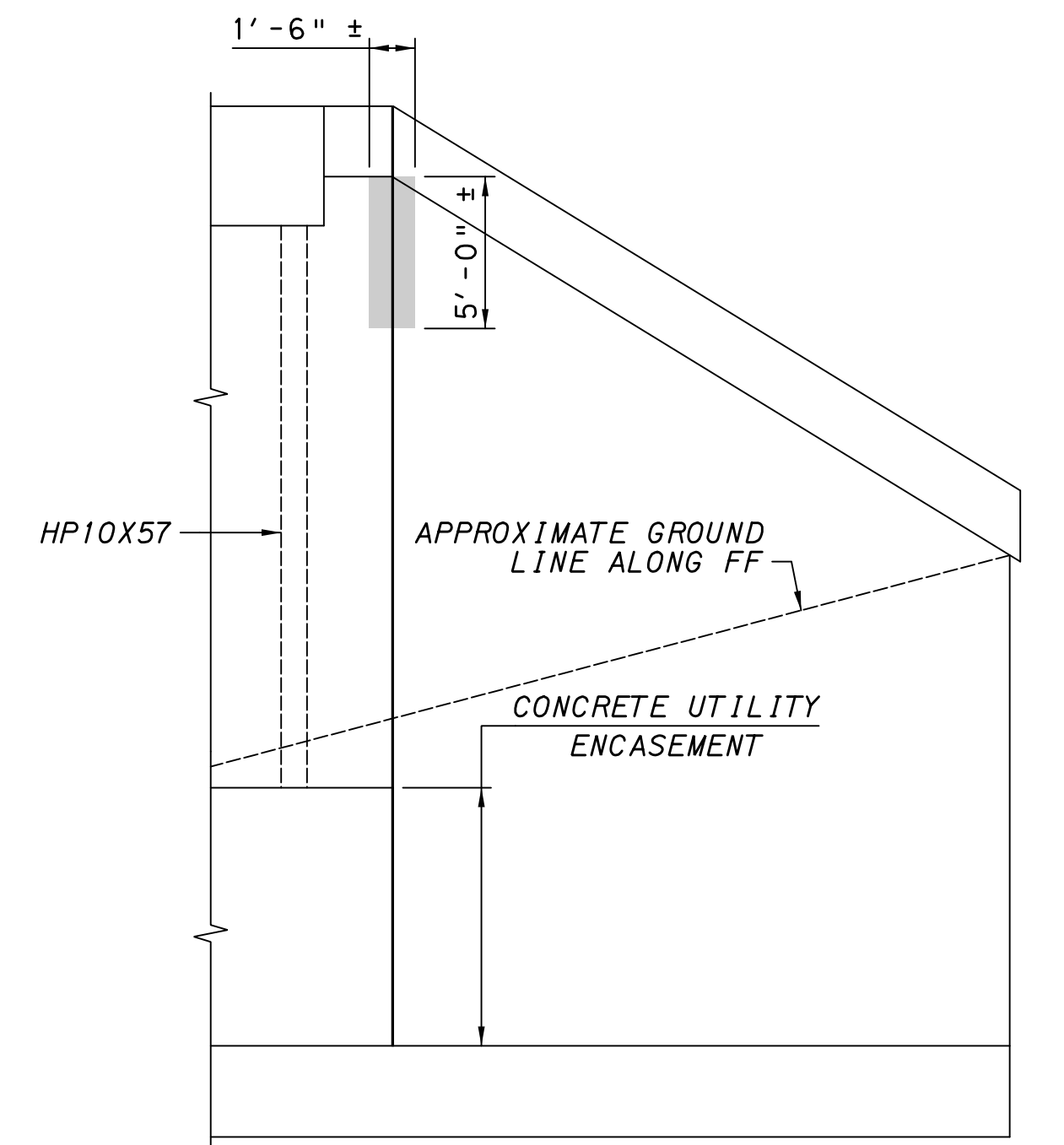
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WING A ELEVATION



WING A TYPICAL SECTION



EXISTING ABUTMENT 1/WING B REPAIRS



LEGEND

REPAIR DETERIORATED CONCRETE

NOTES

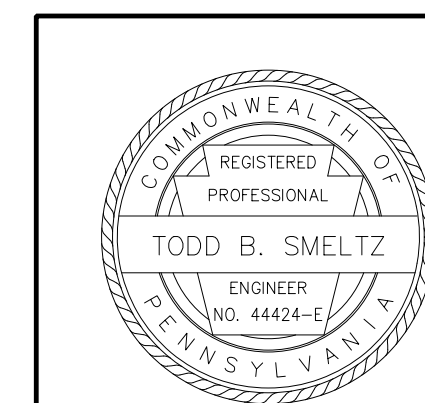
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
- FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.
- TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH TIE BARS AT MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
- 1/2 CY NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408 SECTION 1001.3(c) & (d). SEE BC-751M FOR ADDITIONAL DETAILS.
- FOR REINFORCED CONCRETE REPAIR DETAILS AND NOTES, SEE BC-783M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 WING A ELEVATION & SECTION

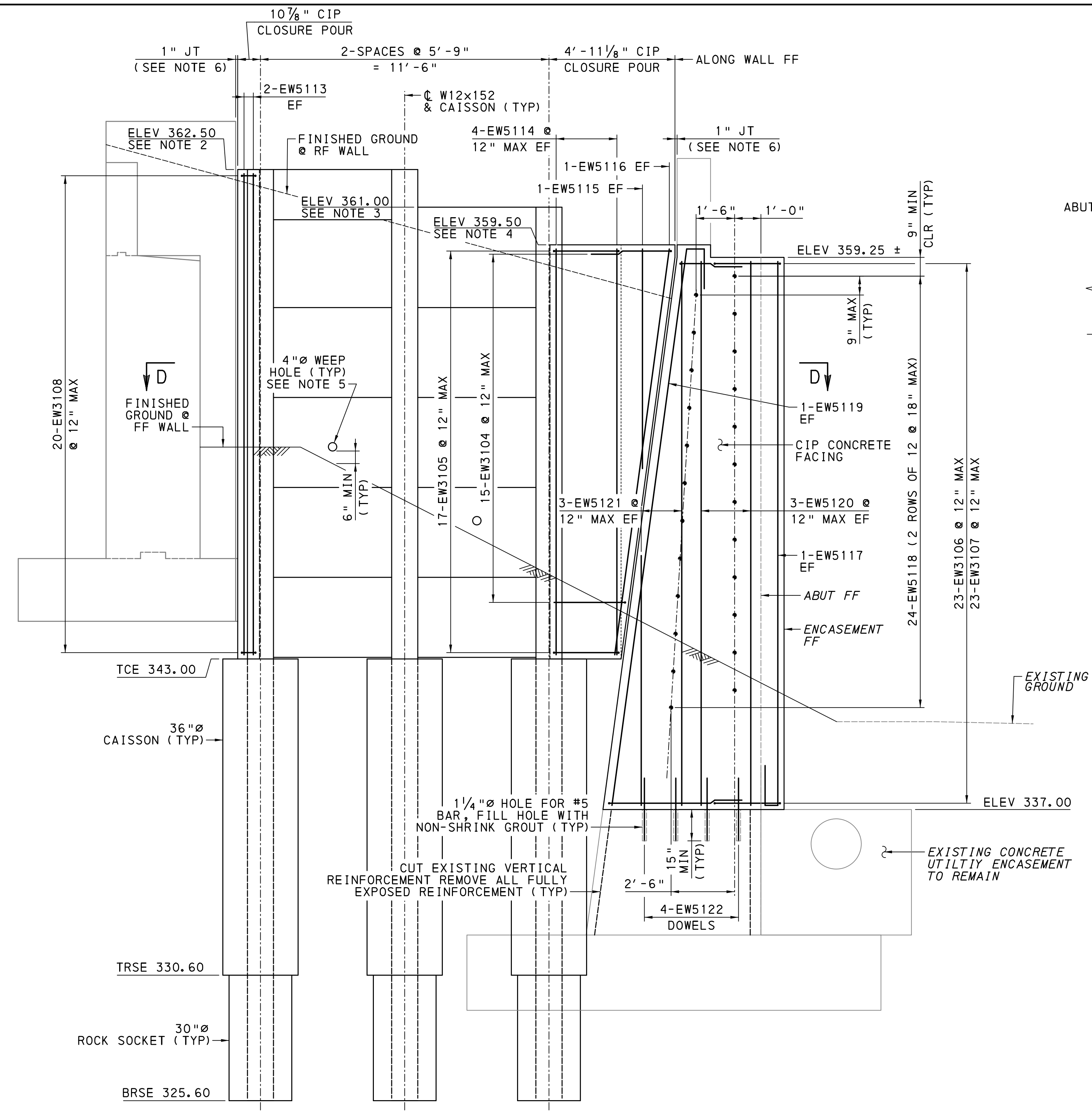


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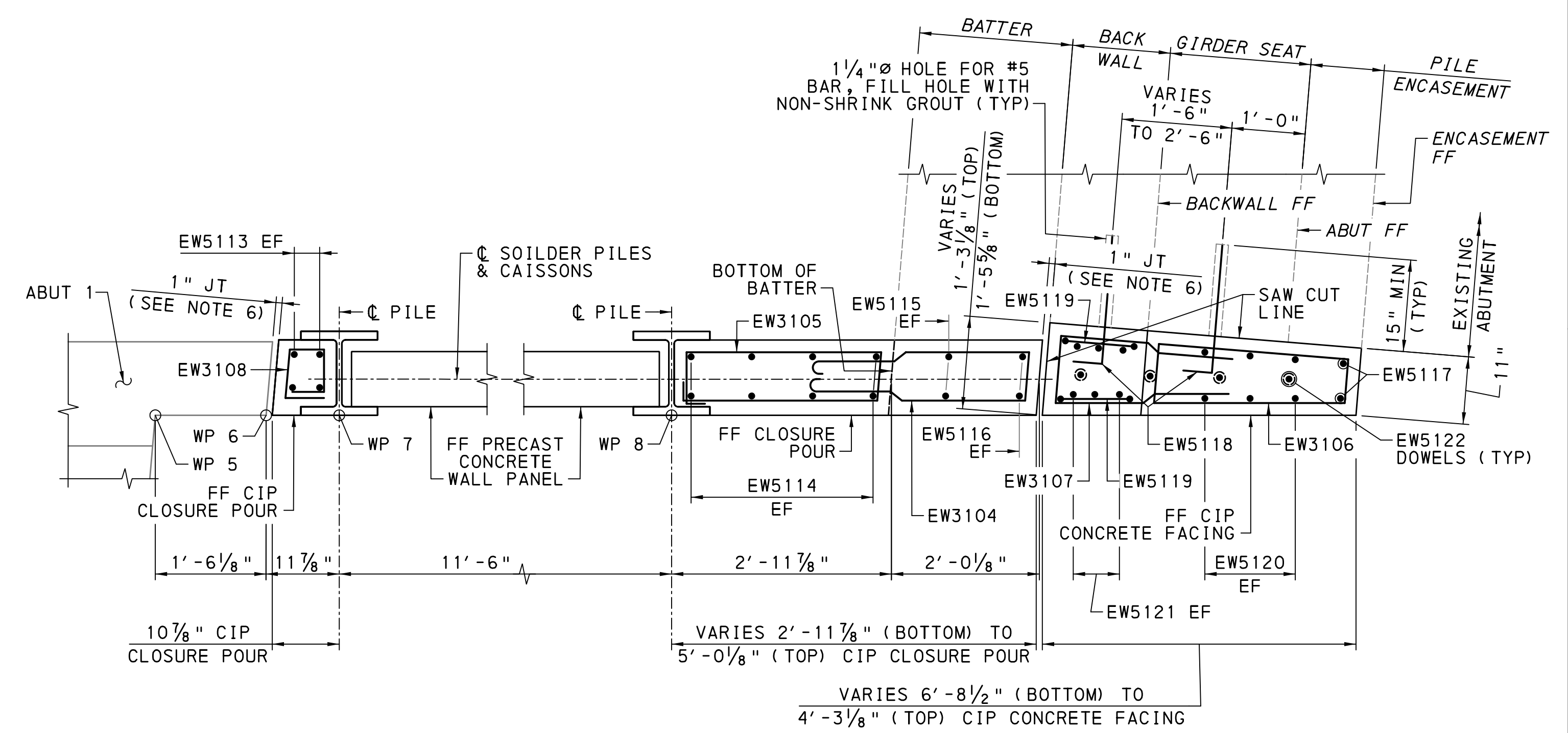
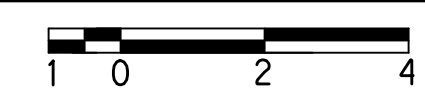
SHEET 18 OF 97

S-42336

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WING B ELEVATION

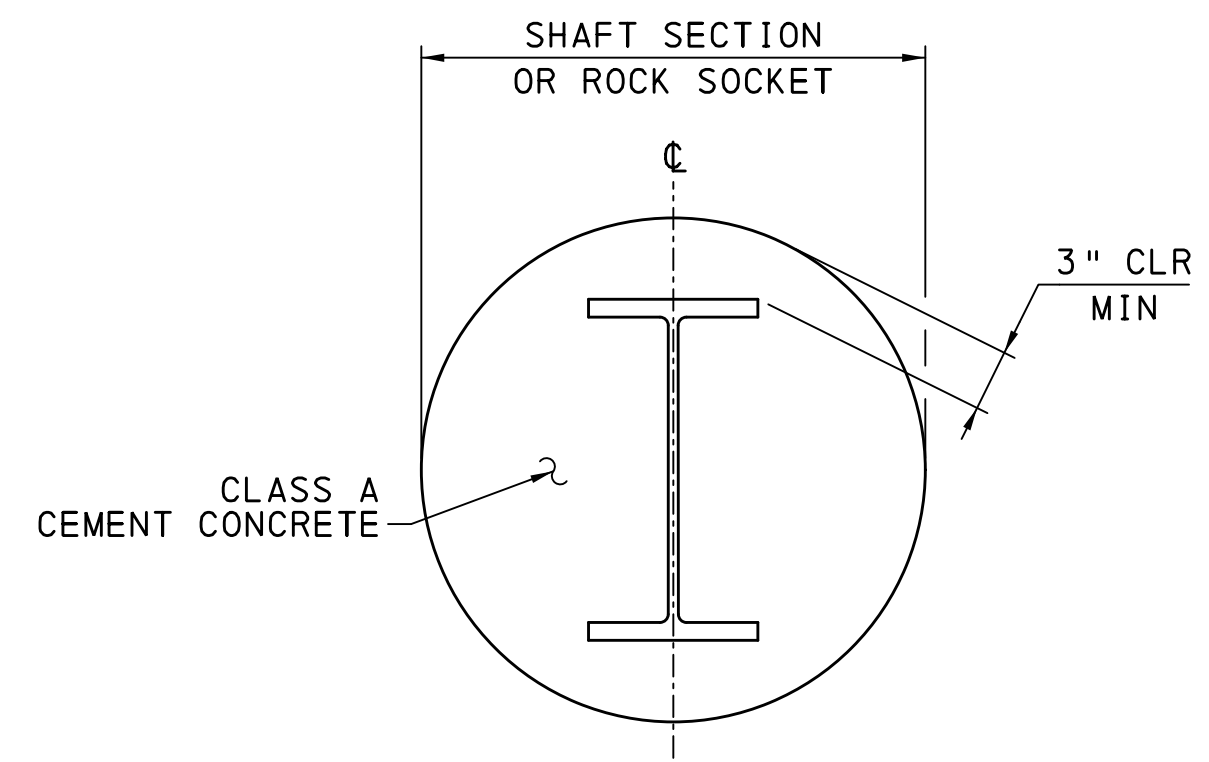


SECTION D-D



NOTES

- FOR ADDITIONAL WEEP HOLE DETAILS, SEE BC-751M AND SHEET 20.
- TOP OF PRECAST CONCRETE WALL PANEL AND CIP CONCRETE WALL CLOSURE POUR.
- TOP OF PRECAST CONCRETE WALL PANEL.
- TOP OF CIP CONCRETE CLOSURE POUR AND ABUTMENT CONCRETE FACING AT EXISTING ABUTMENT BACKWALL AND STEM.
- WEEP HOLE INVERT ELEVATIONS AND PANEL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WEEP HOLE LAYOUT FOR PROPER DRAINAGE.
- FILL JOINT WITH 1" PREMOLDED EXPANSION JOINT FILLER.



NOTE: REQUIRED CAISSON REINFORCEMENT CAGE IN ACCORDANCE WITH PUB 408, SECTION 1006.3(f) NOT SHOWN.

CONCRETE EMBEDMENT SECTION
NOT TO SCALE

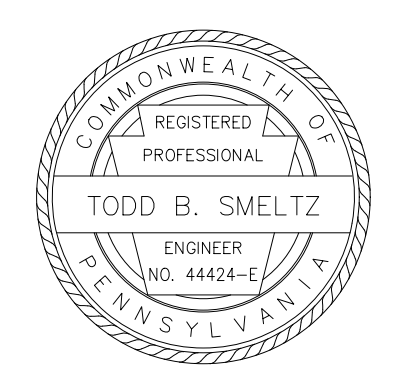
Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

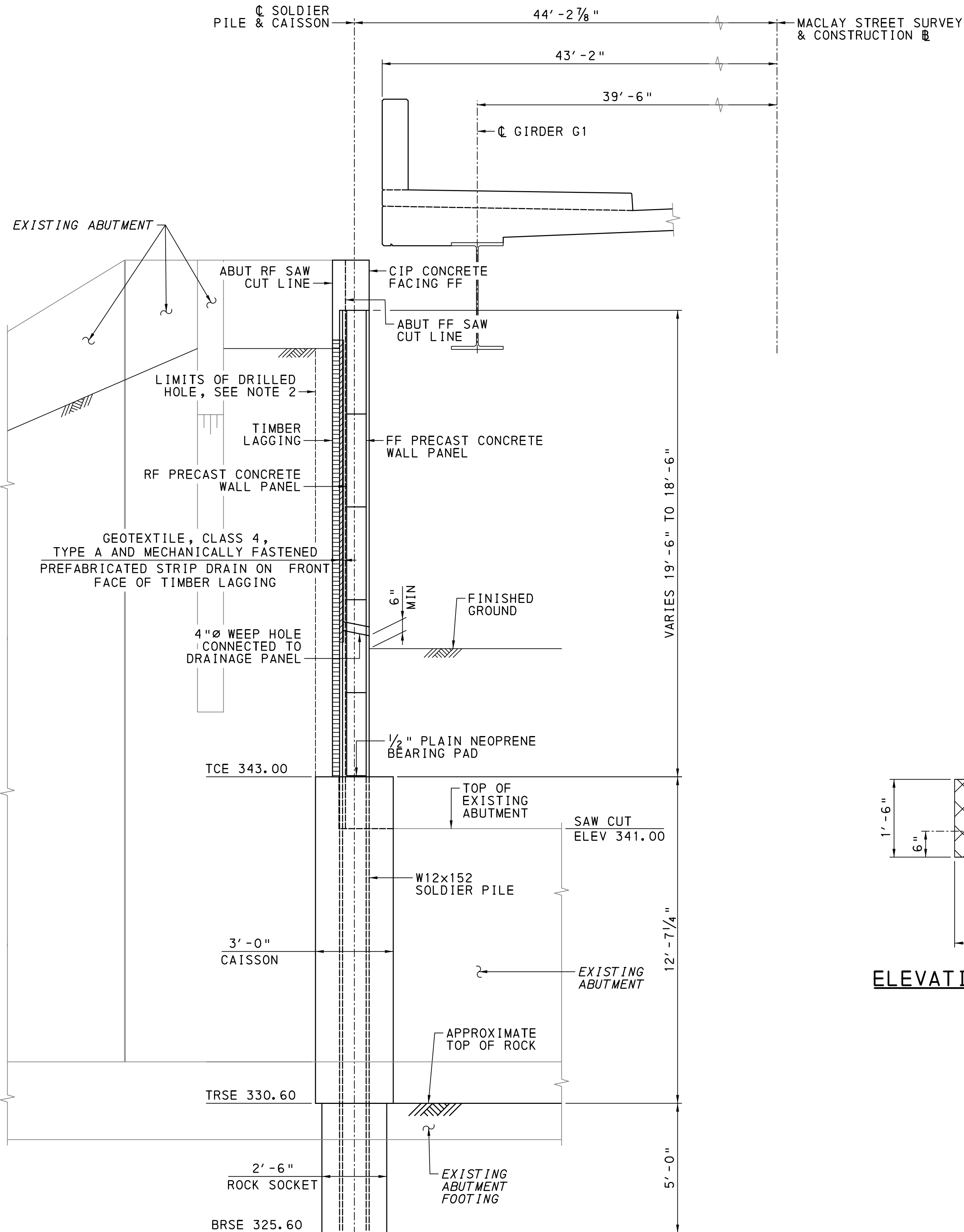
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 WING B ELEVATION & DETAILS

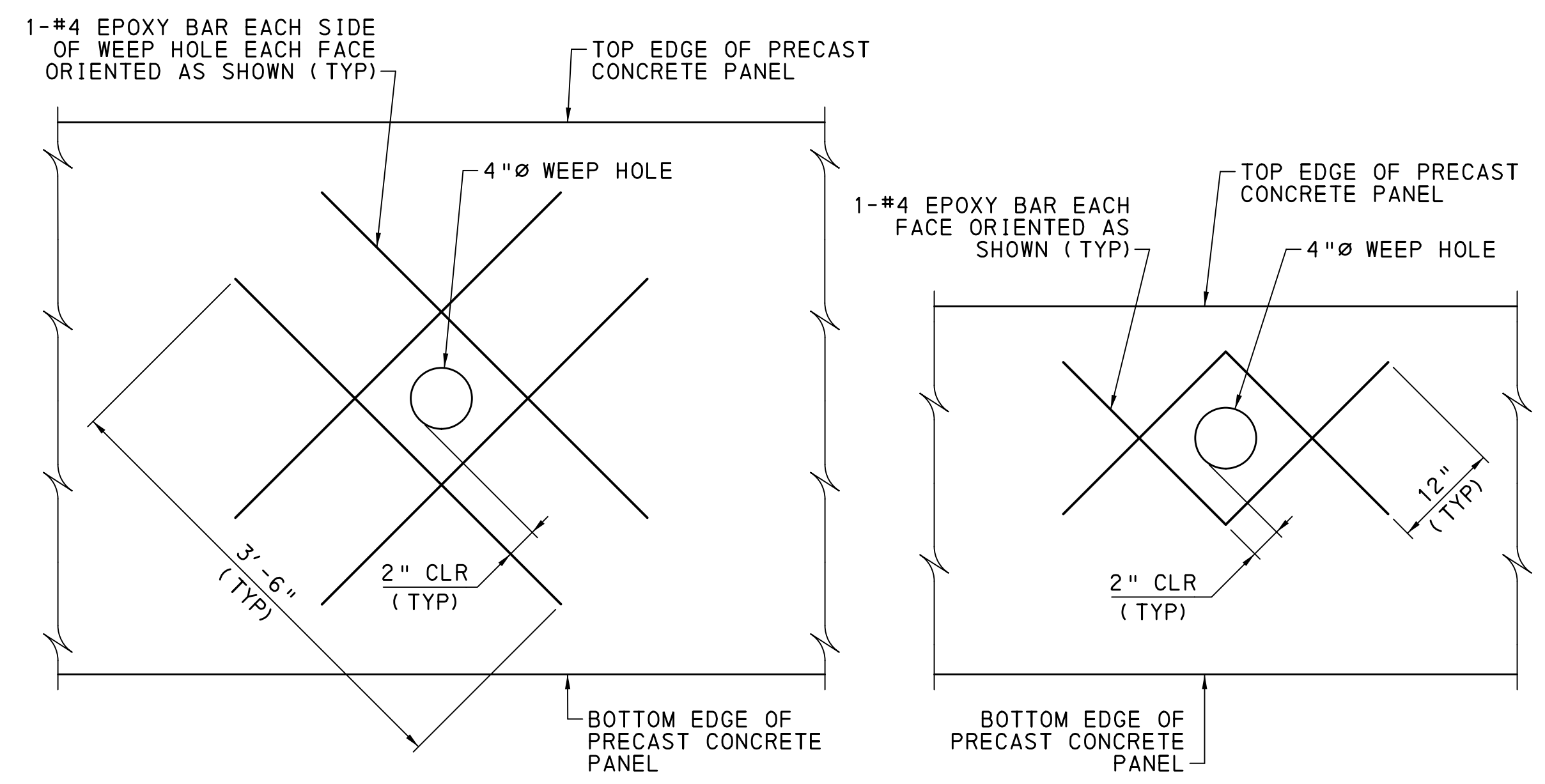
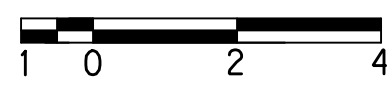
RECOMMENDED 2026.05.15 SHEET 19 OF 97



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WING B TYPICAL SECTION

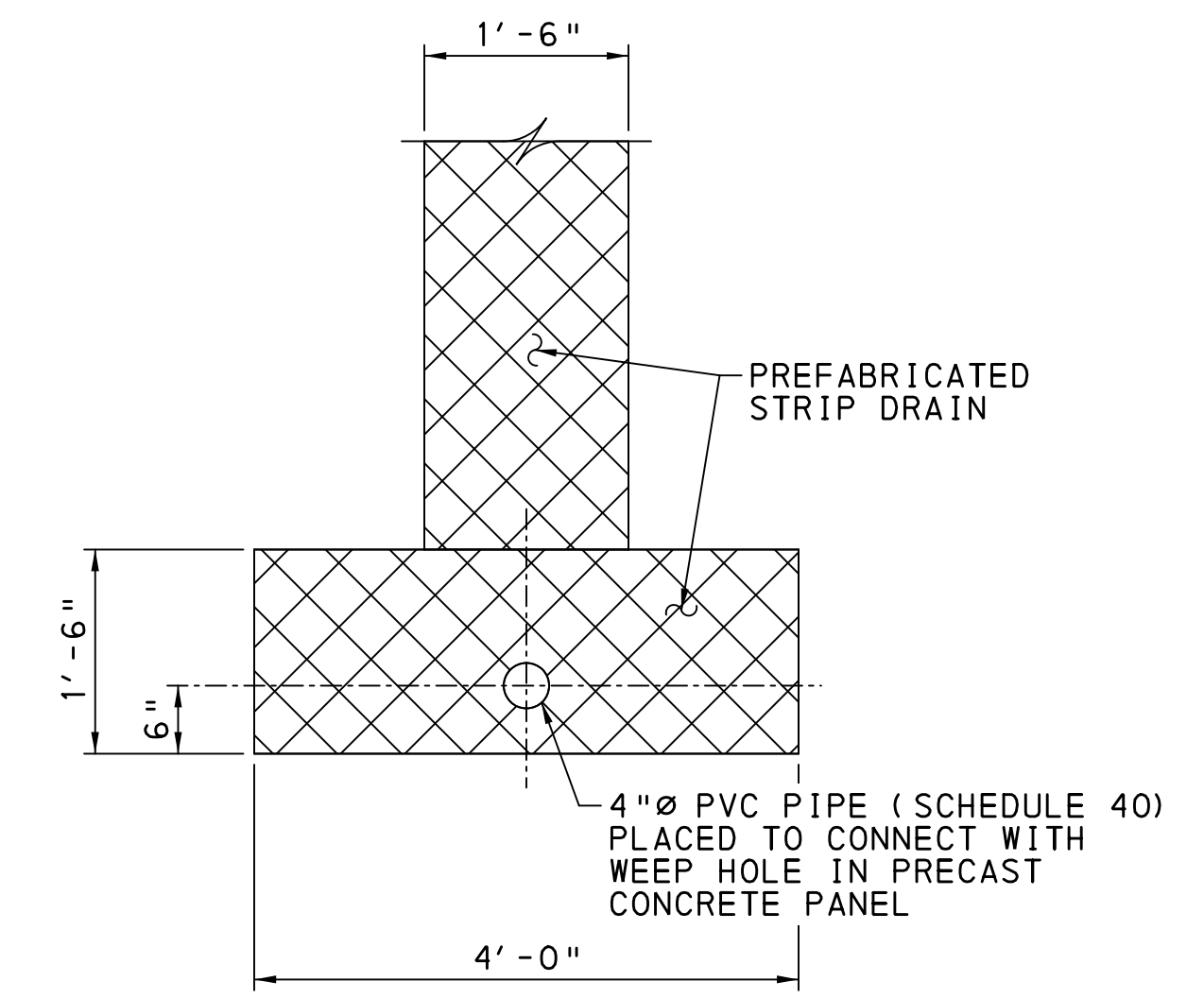


OPTION A

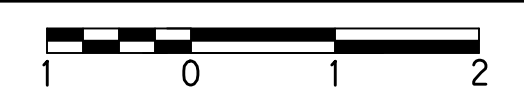
OPTION B

NOTE: USE OPTION B WHEN THE CLEARANCE FROM THE WEEPHOLE TO THE TOP OR BOTTOM EDGE OF THE PRECAST CONCRETE PANEL IS 1'-6" OR LESS.

WEEP HOLE REINFORCEMENT DETAIL
NOT TO SCALE



ELEVATION AT DRAINAGE PANEL



NOTES

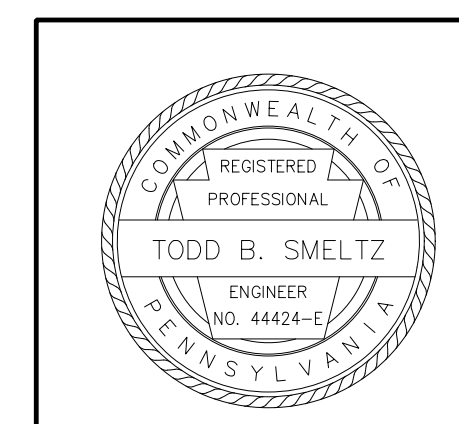
- FOR ADDITIONAL WEEP HOLE AND DRAINAGE DETAILS, SEE BC-751M
- PLACE CONCRETE UP TO TOP OF CAISSON ELEVATION (TCE), FILL REMAINDER OF THE DRILLED HOLE WITH AASHTO NO. 8 COARSE AGGREGATE UP TO THE ORIGINAL GROUND LINE TO PREVENT SOIL COLLAPSE.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

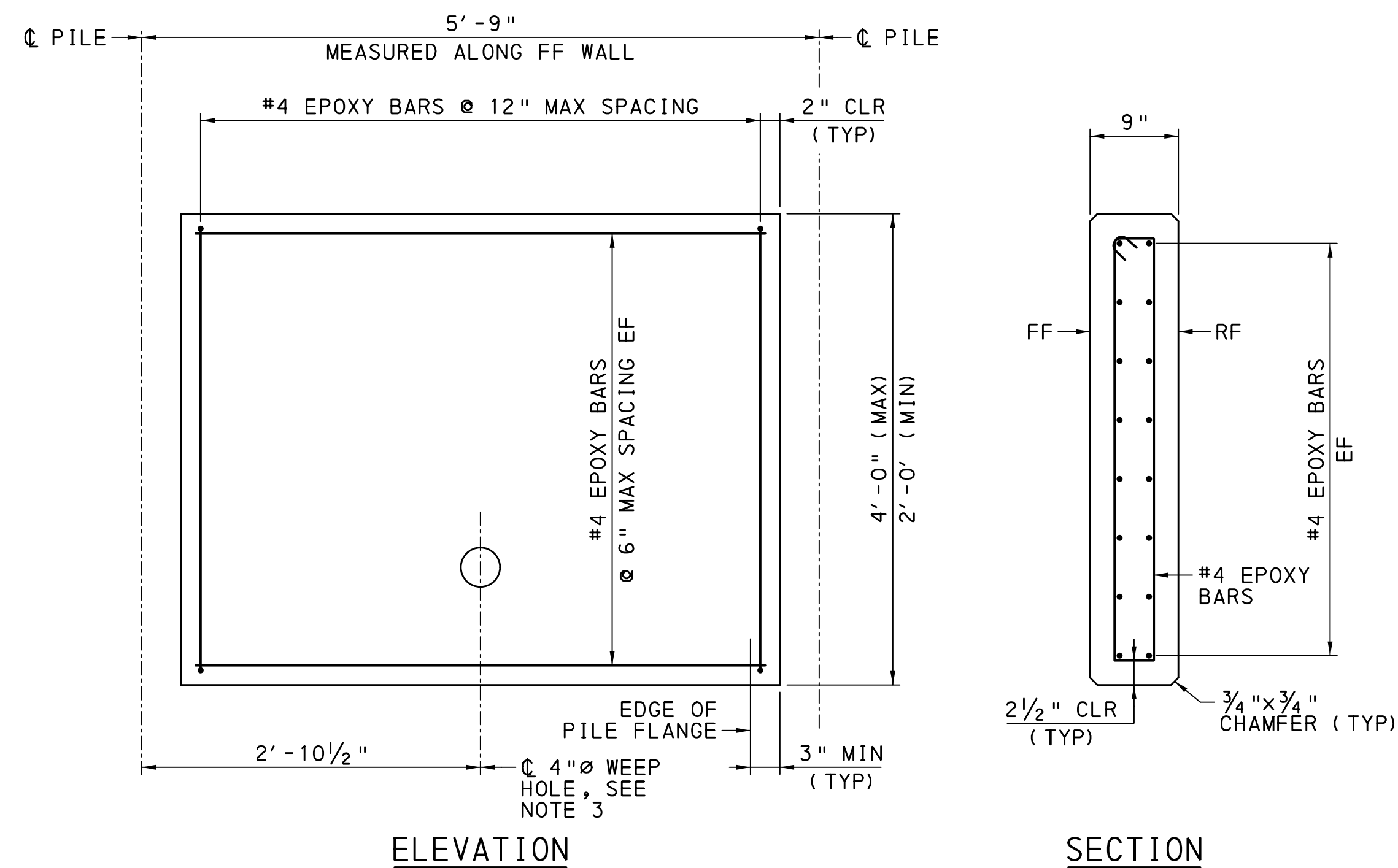
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 WING B TYPICAL SECTION



RECOMMENDED 2026.05.15

SHEET 20 OF 97

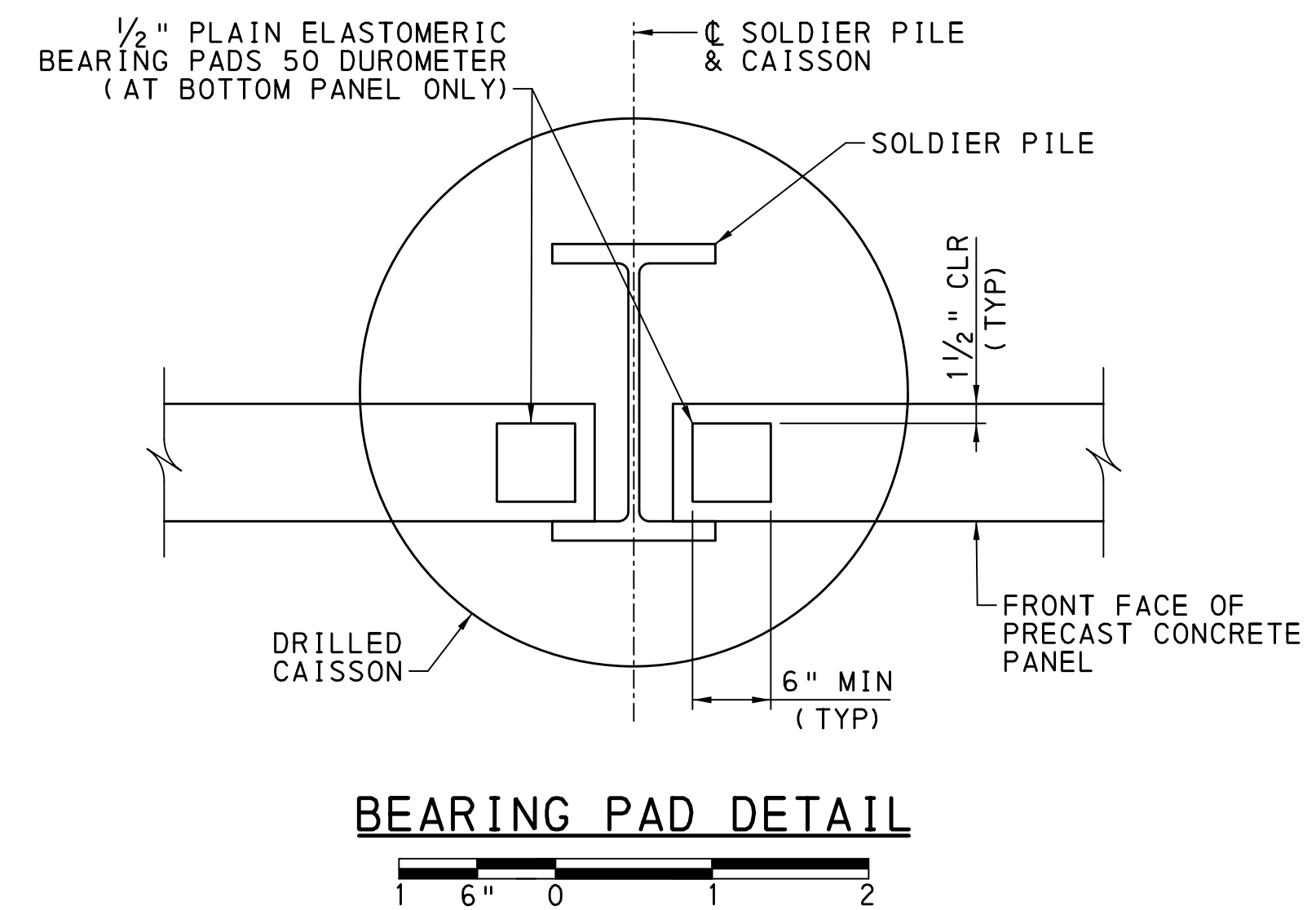
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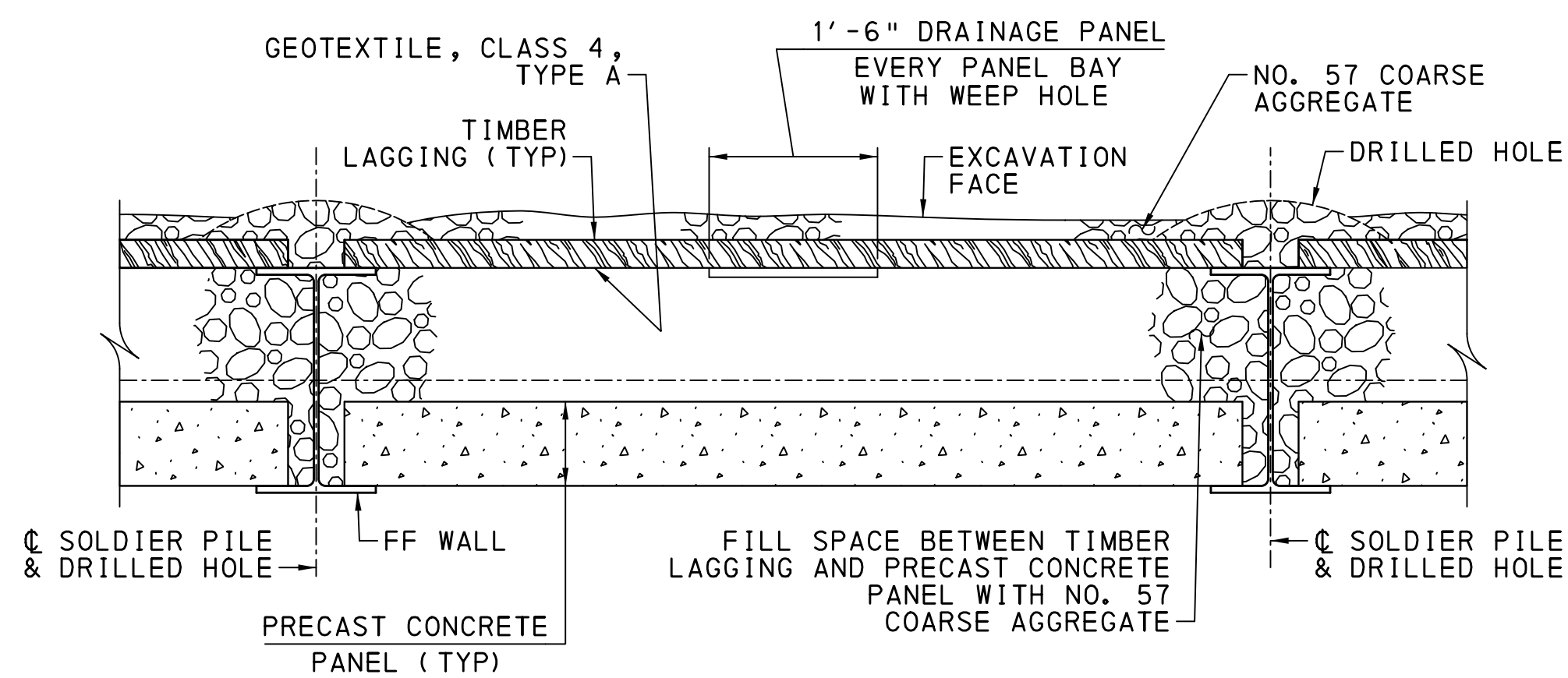
ELEVATION

SECTION

PRECAST CONCRETE PANEL



BEARING PAD DETAIL



TYPICAL SECTION AT PRECAST CONCRETE PANEL



NOTES

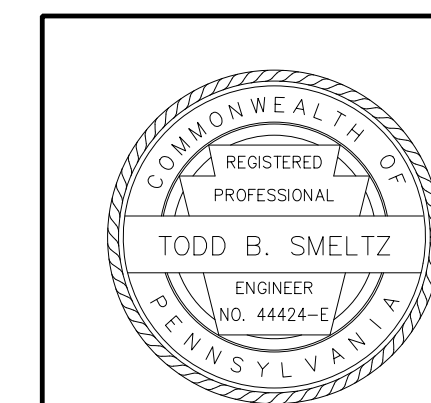
- FOR DRAINAGE PANEL DETAILS, SEE SHEET 20.
- FOR ADDITIONAL WEEP HOLE DETAILS, SEE BC-751M AND SHEET 20.
- WEEP HOLE INVERT ELEVATIONS AND PANEL LOCATIONS TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WEEP HOLE LAYOUT FOR PROPER DRAINAGE.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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DAUPHIN COUNTY
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 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 WING B PRECAST PANEL DETAILS



RECOMMENDED 2026.05.15

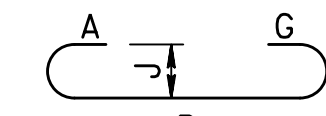
SHEET 21 OF 97

S-42336

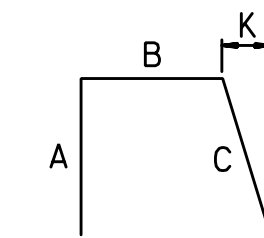
REINFORCEMENT BAR SCHEDULE

ABUTMENT 1

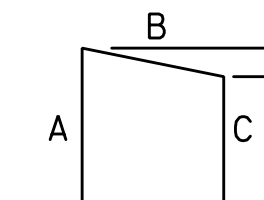
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
FOOTING																	
EF4101	4	2'-8"	120	T9	4 1/2"	1'-11"	4 1/2"					3"					
EF4102	4	8'-3"	169	STR													
EF4103	4	VARIABLE 1'-0" TO 7'-9"	10	STR													VARY BY 9" - 1 EA
EF4104	4	9'-6"	26	STR													
EF4105	4	VARIABLE 4'-6" TO 9'-6"	4	STR													VARY BY 1'-8" - 1 EA
EF4106	4	8'-4"	3	STR													
EF4107	4	3'-6"	3	STR													
EF5101	5	8'-3"	143	STR													
EF5102	5	VARIABLE 2'-10" TO 6'-7"	6	STR													VARY BY 9" - 1 EA
EF5103	5	1'-9"	2	STR													
EF5104	5	9'-0"	31	1	7"	8'-5"								5"			
EF5105	5	3'-9"	131	STR													
EF5106	5	8'-4"	3	STR													
EF5107	5	4'-0"	3	STR													
EF6101	6	VARIABLE 15'-1" TO 17'-7"	11	STR													VARY BY 3" - 1 EA
EF6102	6	17'-7"	2	STR													
EF6103	6	16'-6"	10	STR													
EF7101	7	VARIABLE 42'-7" TO 48'-3"	18	STR													VARY BY 4" - 1 EA, SEE NOTE 4
EF7102	7	48'-3"	2	STR													SEE NOTE 4
EF7103	7	VARIABLE 44'-0" TO 47'-0"	10	STR													VARY BY 4" - 1 EA, SEE NOTE 4
EF7104	7	42'-7"	2	STR													SEE NOTE 4
EF7105	7	42'-4"	32	STR													SEE NOTE 4
EF7106	7	13'-7"	89	1	10"	12'-9"								10"			
EF7107	7	11'-0"	87	1	10"	10'-2"								10"			
EF7108	7	9'-6"	15	STR													
ABUTMENT & WING A																	
EW3101	3	12'-0"	25	STR													BEND IN FIELD
EW3102	3	10'-1"	26	STR													BEND IN FIELD
EW3103	3	10'-7"	26	STR													BEND IN FIELD
EW4101	4	6'-5"	89	7	2'-10"	10"	2'-9"					5/8"					
EW4102	4	3'-6"	56	STR													
EW4103	4	3'-2"	89	STR													
EW5101	5	14'-6"	24	STR													
EW5102	5	VARIABLE 2'-8" TO 12'-4"	10	STR													VARY BY 2'-5" - 2 EA
EW5103	5	15'-7"	2	STR													
EW5104	5	VARIABLE 11'-3" TO 17'-2 1/4"	16	STR													VARY BY 4 3/4" - 1 EA
EW5105	5	VARIABLE 11'-4" TO 17'-3 1/4"	16	STR													VARY BY 4 3/4" - 1 EA
EW5106	5	6'-2 1/2"	88	19	2'-11"	2'-3 1/2"	1'-0"					2'-3 1/2"					
EW5107	5	10'-5"	89	STR													
EW5108	5	17'-3"	12	STR													
EW5109	5	47'-9"	11	STR													SEE NOTE 4
EW5110	5	21'-9"	5	STR													SEE NOTE 4
EW5111	5	30'-3"	5	STR													SEE NOTE 4
EW5112	5	42'-11"	32	1	7"	42'-4"								10"			SEE NOTE 4
EW5122	5	17'-9"	14	STR													
EW5123	5	46'-9"	21	1	7"	46'-9"								10"			SEE NOTE 4
EW5124	5	29'-5"	3	STR													
EW5125	5	15'-6"	3	STR													
EW6101	6	6'-4"	89	STR													
WING B CLOSURE POURS																	
EW3104	3	6'-10"	15	STR													BEND IN FIELD
EW3105	3	7'-7"	17	STR													BEND IN FIELD
EW3108	3	3'-2"	20	STR													BEND IN FIELD
EW5113	5	19'-2"	4	STR													
EW5114	5	16'-2"	8	STR													
EW5115	5	8'-4"	2	STR													
EW5116	5	16'-3"	2	STR													
CONCRETE FACING																	
EW3106	3	11'-0"	23	STR													BEND IN FIELD
EW3107	3	VARIABLE 9'-2" TO 9'-5"	23	8		4'-1 1/2"	11" TO 1'-2"	4'-1 1/2"				2" TO 4"			7/8" TO 1 1/8"		VARY 'C' BY 3/16" VARY 'K' BY 1/8" 1 EA
EW5117	5	24'-0"	2	17		21'-9"	8"	1'-7"									
EW5118	5	2'-7"	24	17		10"	1'-9"										
EW5119	5	24'-10"	2	6	1'-7"	11"	22'-4"								2'-3"		
EW5120	5	21'-9"	6	STR													
EW5121	5	VARIABLE 8'-9" TO 21'-9"	6	STR													VARY BY 6'-6" 2 EA
EW5122	5	2'-6"	4	STR													



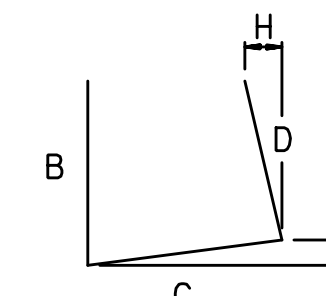
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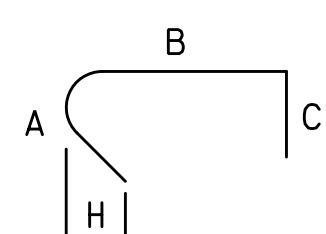
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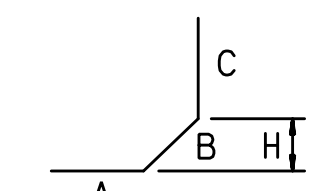
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(8)

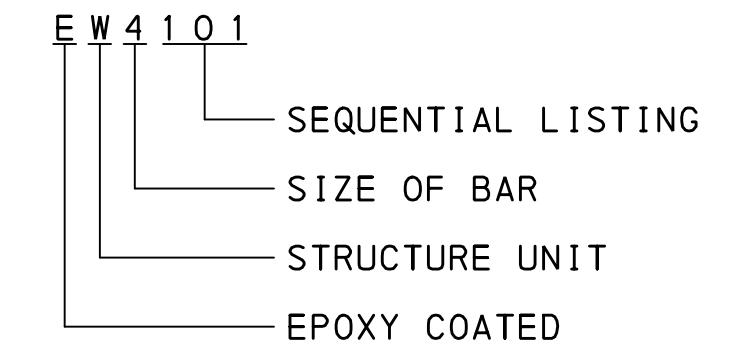


(17)



(19)

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

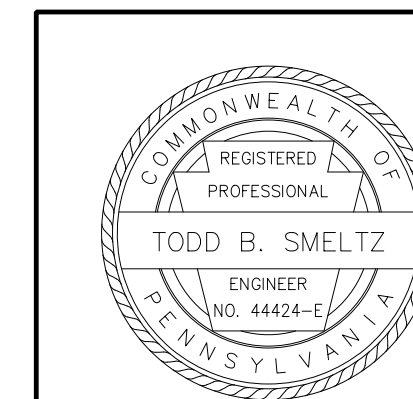
- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR.
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 1 REINFORCEMENT BAR SCHEDULE



RECOMMENDED 2026.05.15

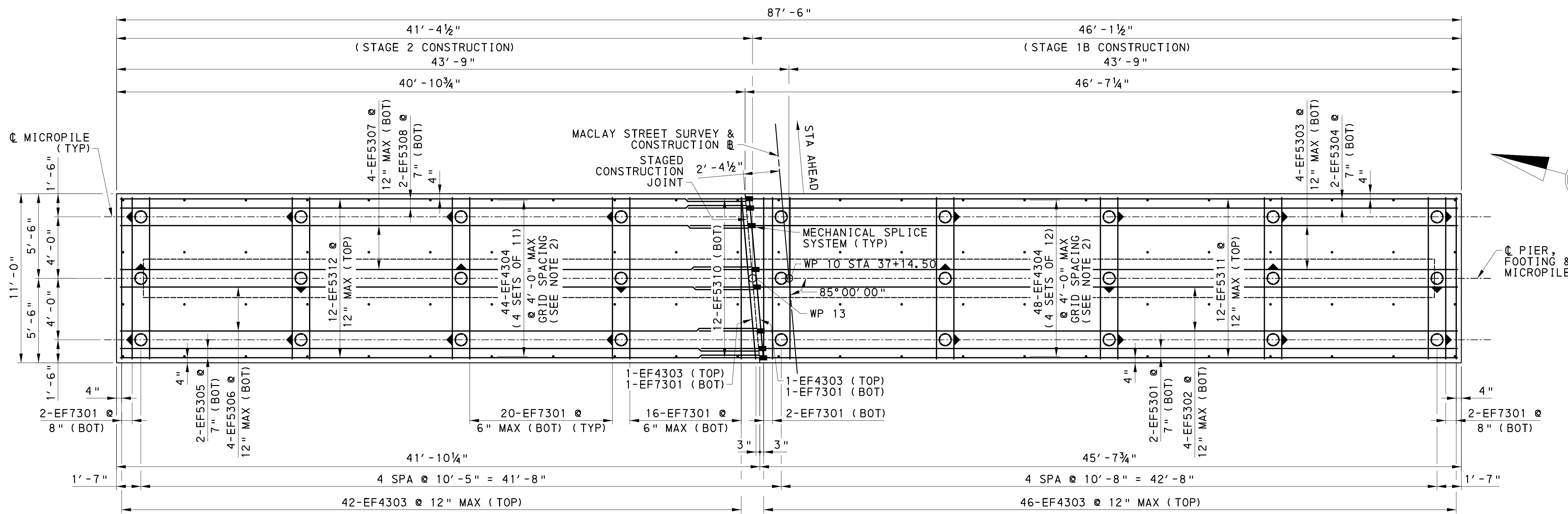
SHEET 22 OF 97

S-42336

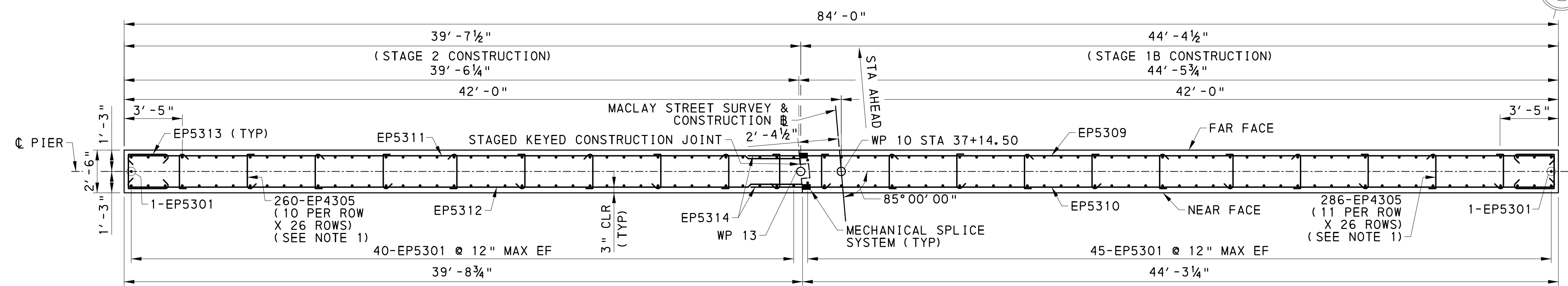
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DES: MJL | DES CKD: SEC | DWG: MJL | DWG CKD: SEC

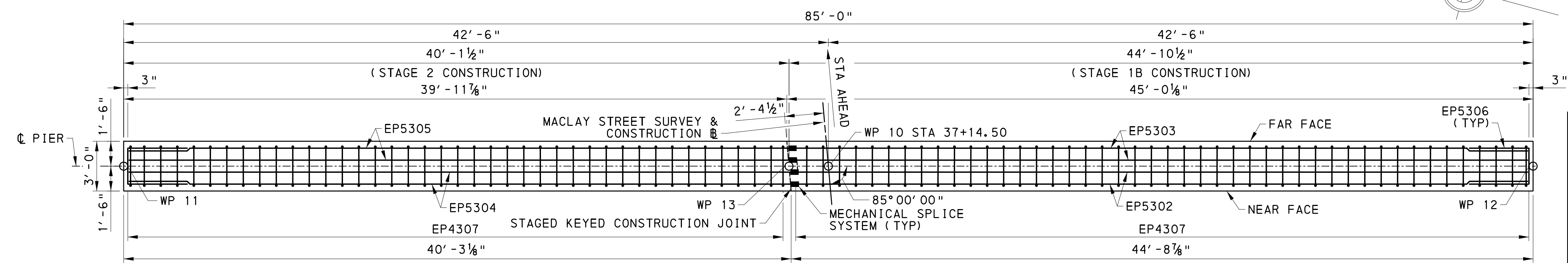
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PIER 1 FOOTING & PILE PLAN



SECTION X1B-X1B (SH 24)



SECTION X1T-X1T (SH 24)



PIER 1 PILE LOADING - 9.625" OD MICROPILE				
	CONTROLLING LIMIT STATE	LOAD CASE	FACTORED LOAD	RESISTANCE
AXIAL (KIPS)	STR-I	21	294.2 KIP	362.8 KIP
LATERAL (KIPS/FT)	EXT-II	1	600.0 KIP	703.9 KIP

LEGEND

- DENOTES MICROPILE BATTERED 3H:12V IN DIRECTION OF ARROW
- DENOTES VERTICAL MICROPILE

NOTES

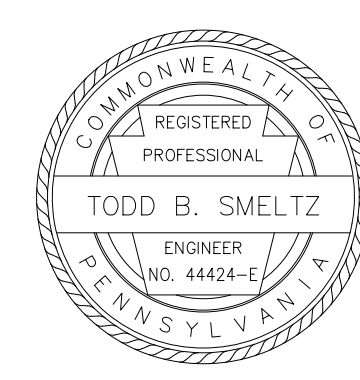
1. ALL HOOKS ON TIES MUST ENGAGE VERTICAL COLUMN REINFORCING STEEL. ALTERNATE 90° & 135° HOOKS ON CROSS TIES, BOTH VERTICALLY AND HORIZONTALLY.
2. ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

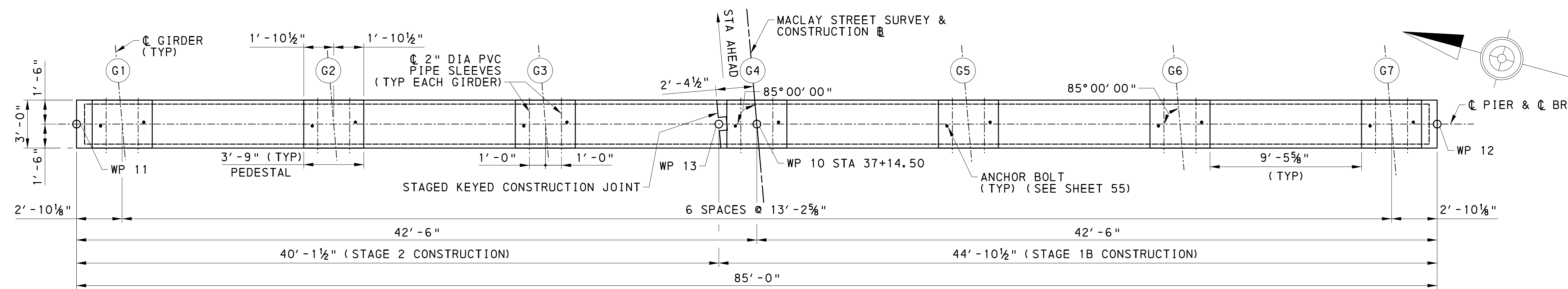
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 1 FOOTING PLAN



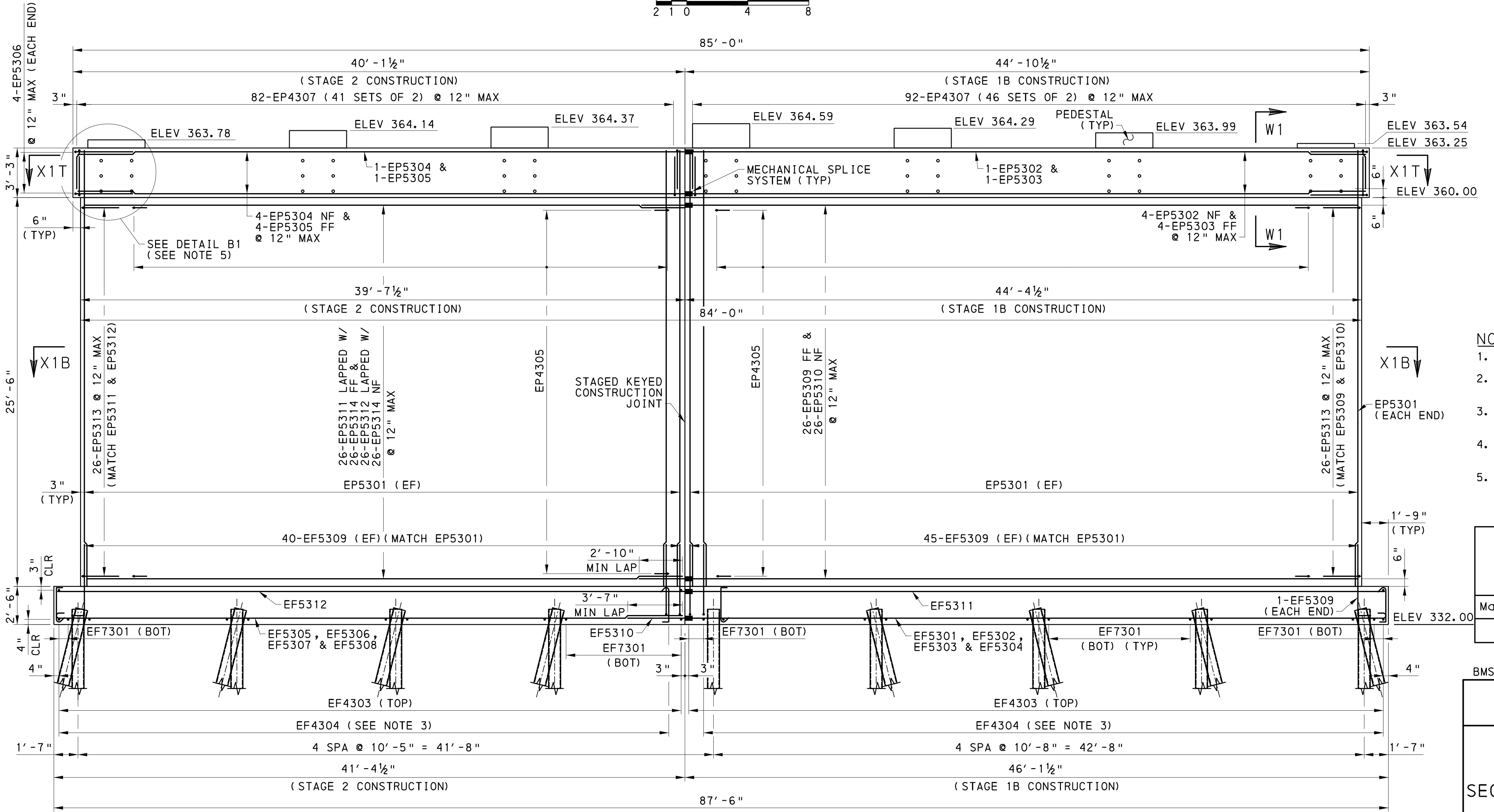
RECOMMENDED 2026.05.15

SHEET 23 OF 97

S-42336



PIER 1 CAP PLAN



PIER 1 ELEVATION



NOTES

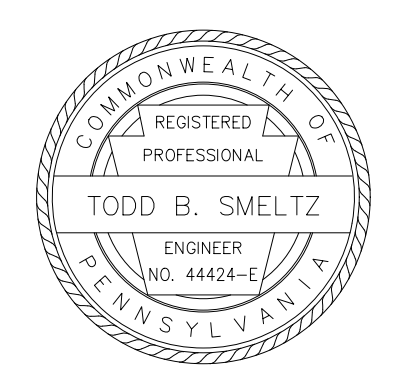
1. FOR SECTIONS X1B-X1B AND X1T-X1T, SEE SHEET 23.
2. FOR KEYED CONSTRUCTION JOINT DETAILS, SEE STANDARD DRAWING BC-735M.
3. ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.
4. ADJUST PVC PIPE SPACING TO CLEAR PIER CAP REINFORCEMENT. INSTALL THREADED CAP AT EACH END OF PVC PIPE.
5. FOR ADDITIONAL PIER CAP DETAILS, PIER 1 TYPICAL SECTION AND SECTION W1-W1, SEE SHEET 25.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
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 MACLAY STREET STA. 38+59.50
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 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
PIER 1 PLAN & ELEVATION



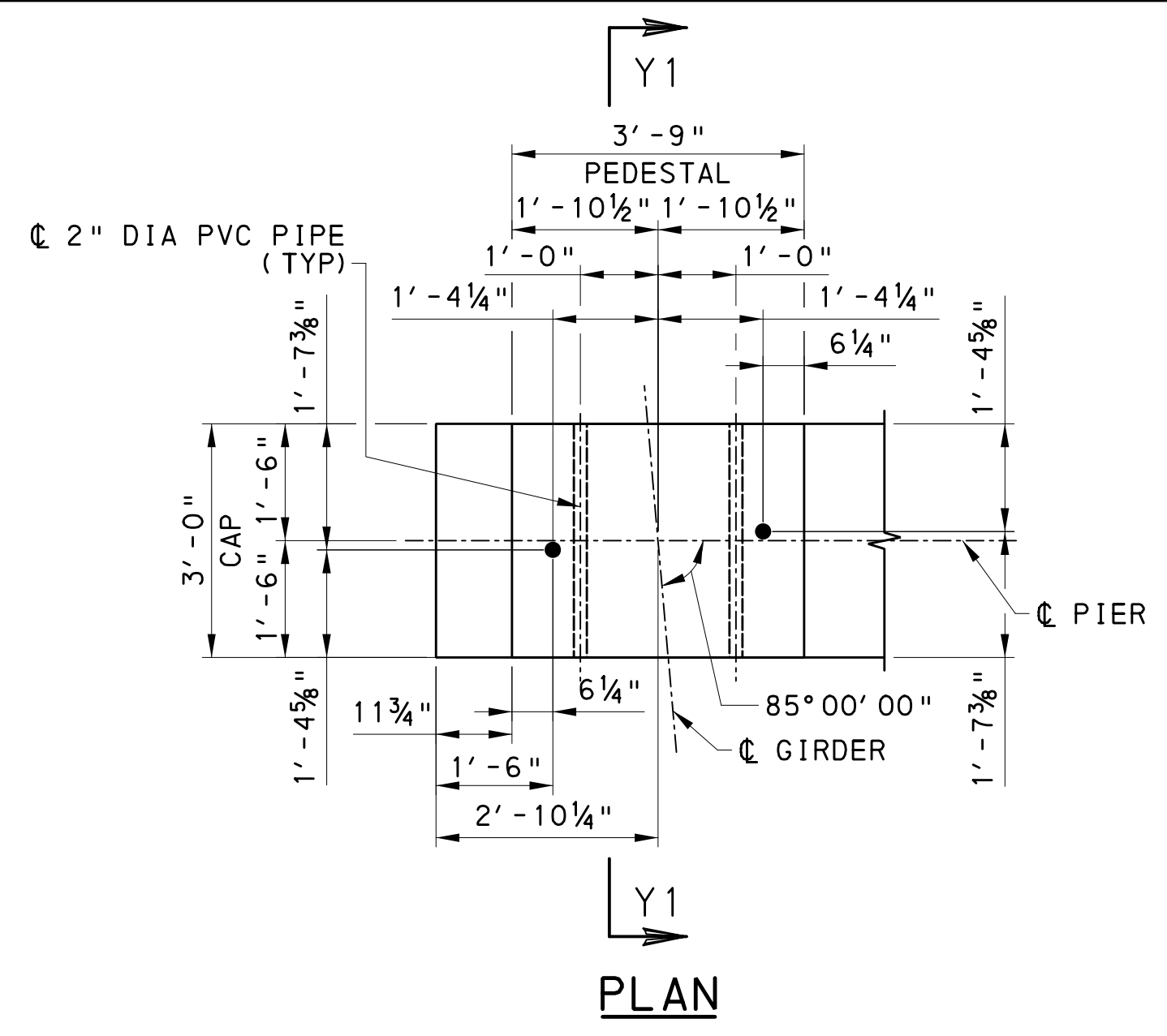
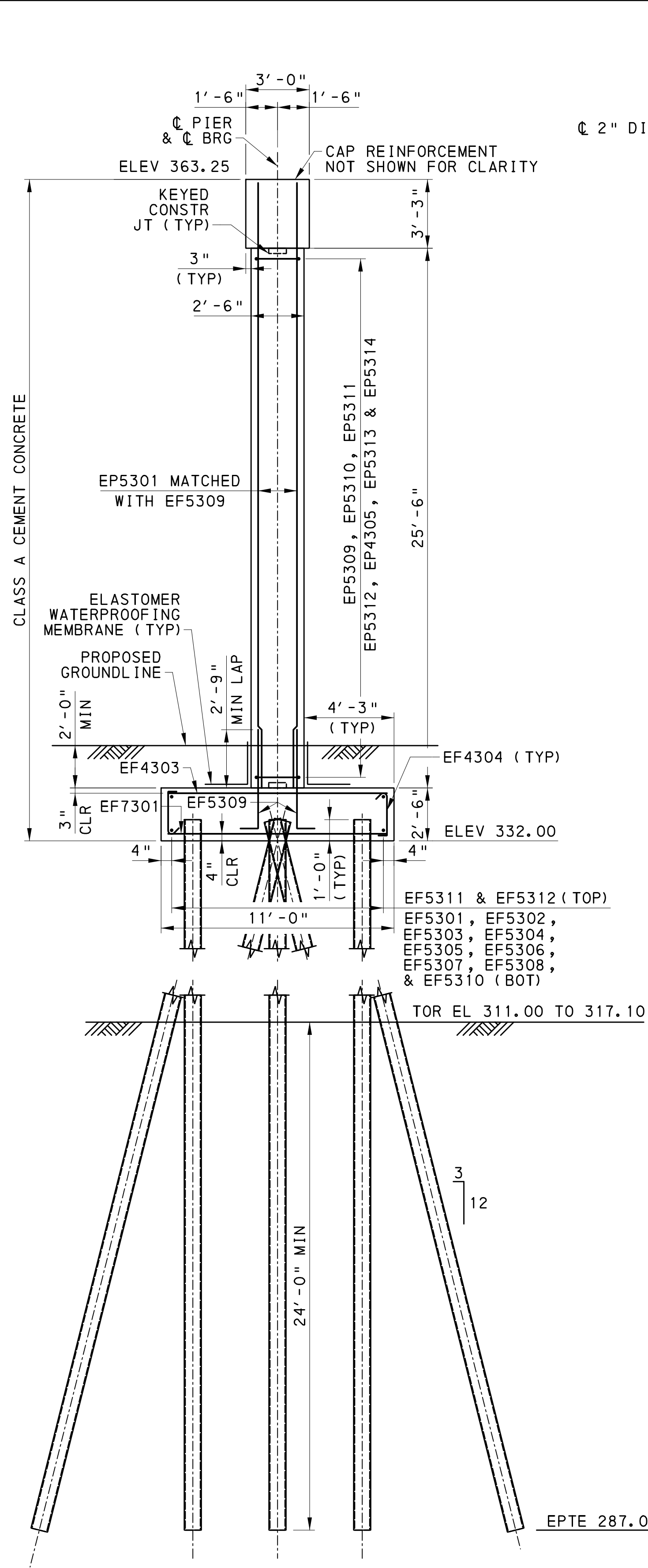
RECOMMENDED 2026.05.15

SHEET 24 OF 97

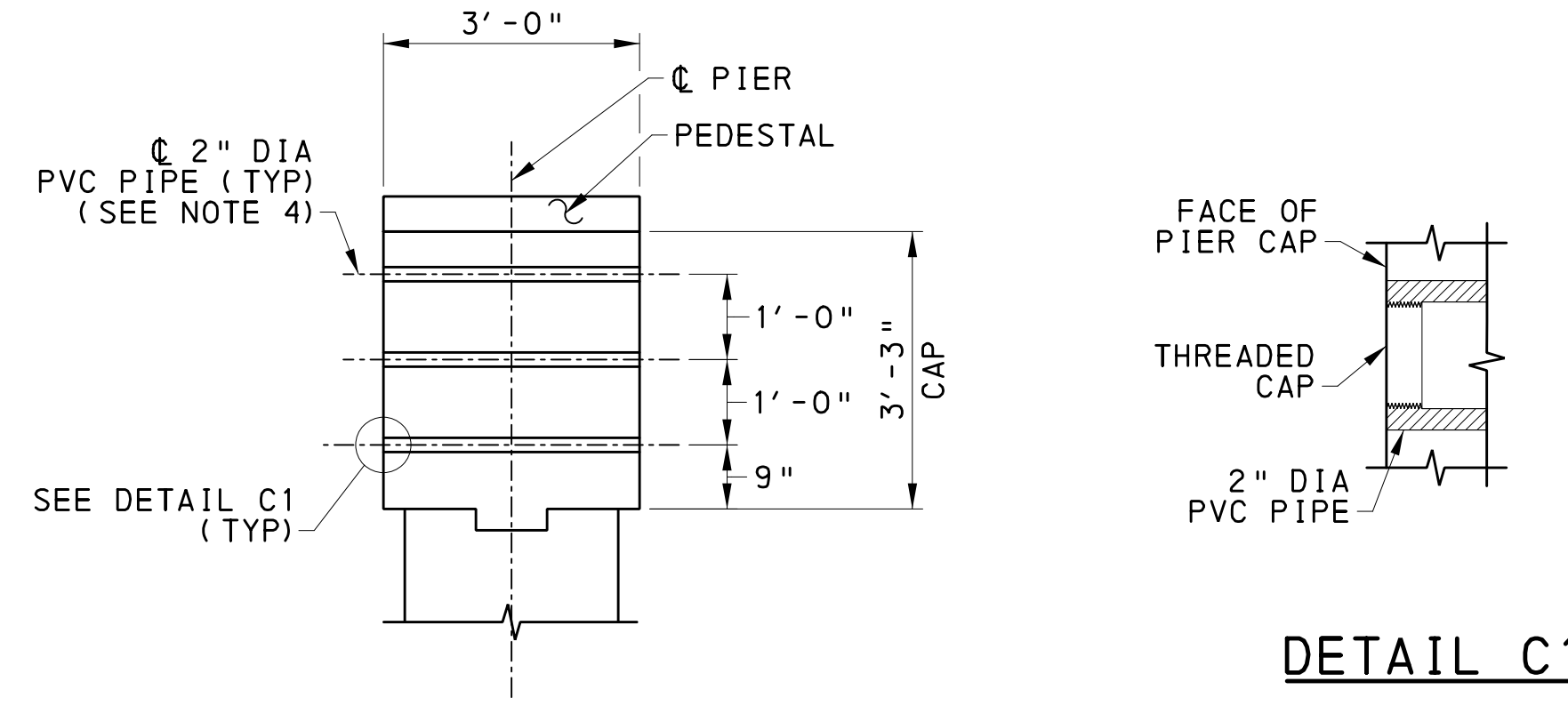
S-42336

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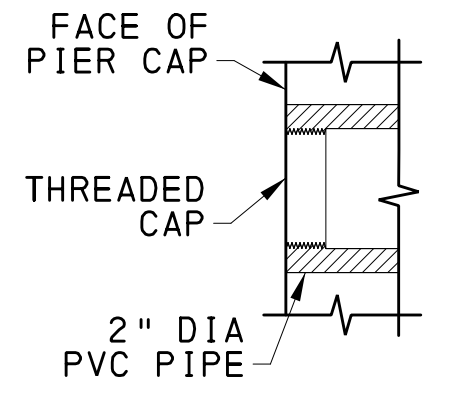
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PLAN

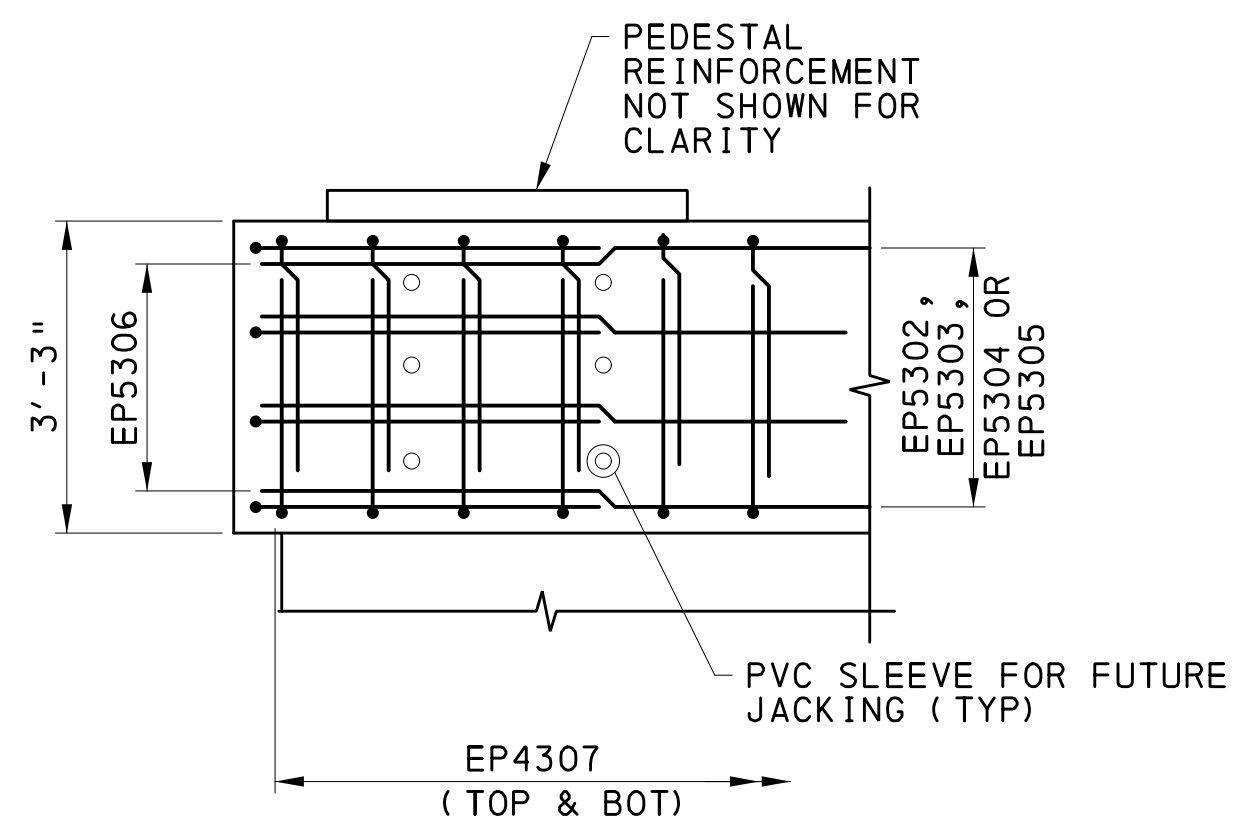


SECTION Y1-Y1

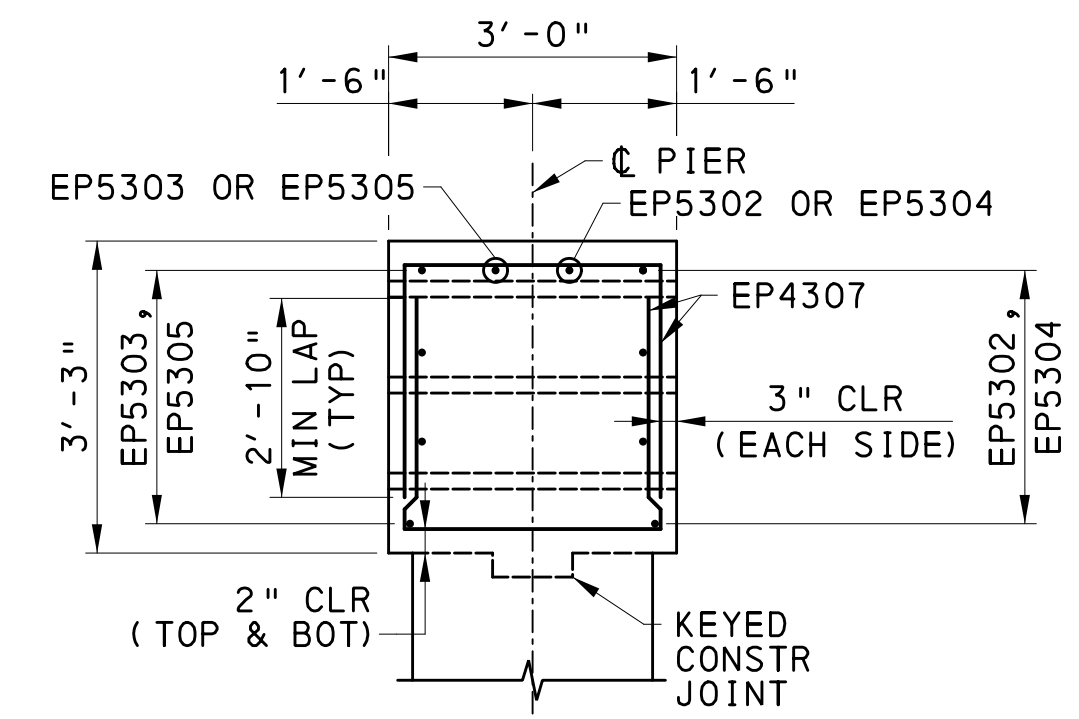


DETAIL C1

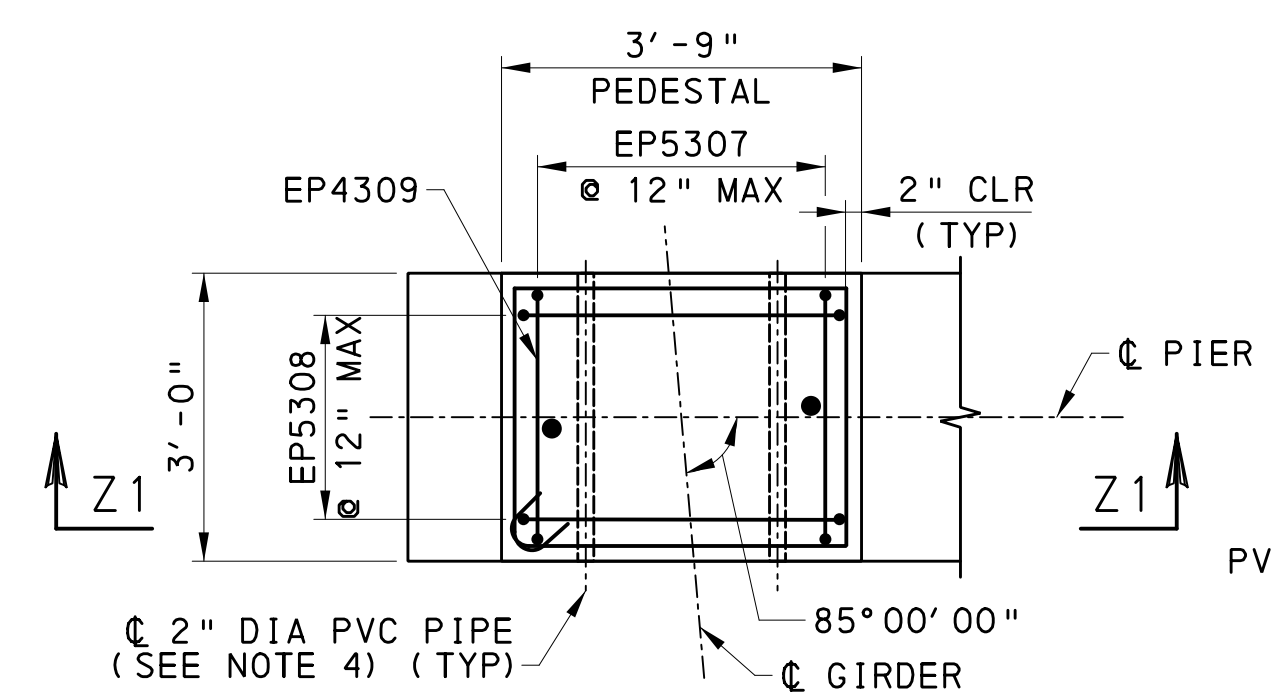
ANCHOR BOLT & FUTURE JACKING SLEEVE PIERS 1 & 3 DETAILS
 NOT TO SCALE



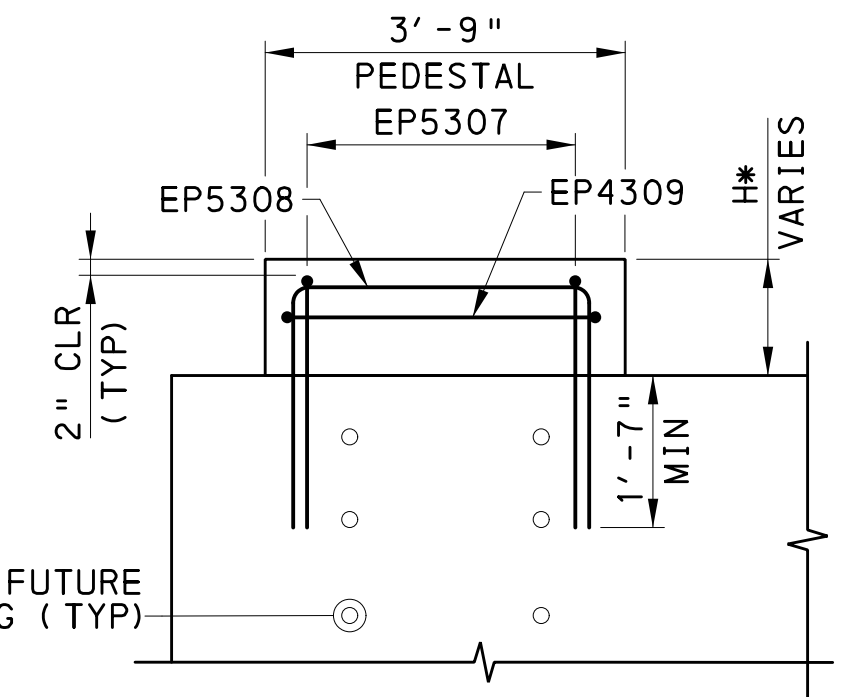
DETAIL B1 (SH 24)



SECTION W1-W1 (SH 24)



PEDESTAL REINFORCEMENT



SECTION Z1-Z1

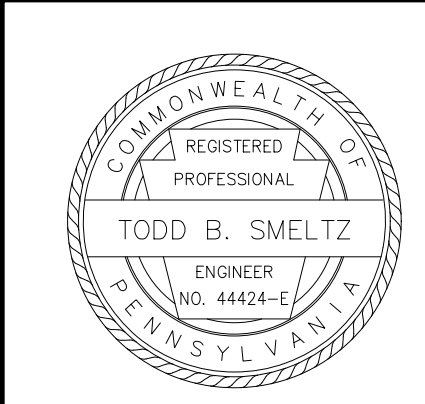
NOTES

- FOR PIER 1 CAP PLAN AND ELEVATION, SEE SHEET 24.
- FOR KEYED CONSTRUCTION JOINT DETAILS, SEE BC-735M.
- FOR STEM TO FOOTING PIER WATERPROOFING DETAILS, SEE BC-788M.
- ADJUST PVC PIPE SPACING TO CLEAR PIER CAP REINFORCEMENT. INSTALL THREADED CAP AT EACH END OF PVC PIPE.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 1 TYPICAL SECTION



PEDESTAL REINFORCEMENT DETAIL							
LOCATION	G1	G2	G3	G4	G5	G6	G7
H* (FT)	0.41	0.89	1.12	1.34	1.04	0.74	0.17
EP4309	-	1	1	1	1	1	-
EP5307	5	5	5	5	5	5	-
EP5308	4	4	4	4	4	4	-

RECOMMENDED 2026.05.15

SHEET 25 OF 97

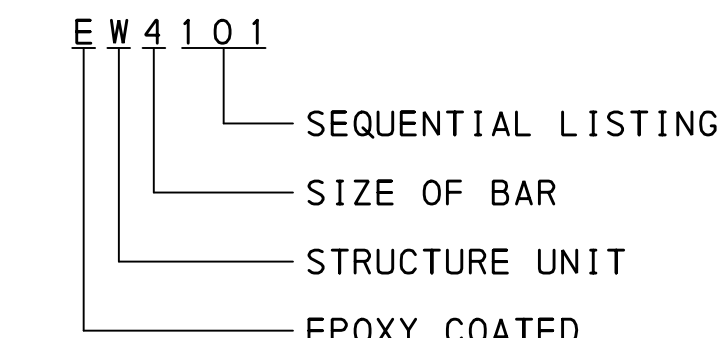
S-42336

REINFORCEMENT BAR SCHEDULE

PIER 1

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
FOOTING																	
EF4303	4	10'-6"	90	STR													
EF4304	4	2'-8"	92	T9	4 1/2"	1'-11"	4 1/2"					3"					
EF5301	5	46'-0"	2	1	7"	45'-5"								5"			SEE NOTE 5
EF5302	5	VARIABLES 46'-2" TO 46'-5"	4	1	7"	45'-7" TO 45'-10"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5303	5	VARIABLES 46'-6" TO 46'-9"	4	1	7"	45'-11" TO 46'-2"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5304	5	46'-10"	2	1	7"	46'-3"								5"			SEE NOTE 5
EF5305	5	42'-0"	2	1	7"	41'-5"											
EF5306	5	VARIABLES 41'-8" TO 41'-11"	4	1	7"	41'-1" TO 41'-4"											VARY BY 1" - 1 EA
EF5307	5	VARIABLES 41'-4" TO 41'-7"	4	1	7"	40'-9" TO 41'-0"											VARY BY 1" - 1 EA
EF5308	5	41'-2"	2	1	7"	40'-7"											
EF5309	5	5'-11"	172	33		5'-1"	10"										
EF5310	5	3'-9"	12	STR													SEE NOTE 4
EF5311	5	VARIABLES 45'-5" TO 46'-4"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF5312	5	VARIABLES 40'-8" TO 41'-7"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF7301	7	11'-6"	164	STR													
STEM & CAP																	
EP4305	4	2'-9"	546	T9	4 1/2"	2'-0"	4 1/2"					3"					
EP4307	4	8'-4"	174	17		2'-11"	2'-6"	2'-11"									
EP4309	4	12'-11"	5	T1	4 1/2"	2'-8"	3'-5"	2'-8"	3'-5"								
EP5301	5	28'-6"	172	STR													
EP5302	5	44'-6"	5	STR													SEE NOTE 4
EP5303	5	44'-8"	5	STR													SEE NOTE 4
EP5304	5	39'-11"	5	STR													SEE NOTE 4
EP5305	5	39'-9"	5	STR													SEE NOTE 4
EP5306	5	9'-8"	8	17		3'-7"	2'-6"	3'-7"									
EP5307	5	8'-1"	30	17		2'-9"	2'-7"	2'-9"									
EP5308	5	8'-10"	24	17		2'-9"	3'-4"	2'-9"									
EP5309	5	44'-7"	26	T4	4 1/2"	44'-2 1/2"						3"					SEE NOTE 5
EP5310	5	44'-5"	26	T4	4 1/2"	44'-0 1/2"						3"					SEE NOTE 5
EP5311	5	39'-7"	26	T4	4 1/2"	39'-2 1/2"						3"					
EP5312	5	39'-9"	26	T4	4 1/2"	39'-4 1/2"						3"					
EP5313	5	7'-2"	52	S2	4 1/2"	2'-2 1/2"	2'-0"	2'-2 1/2"			4 1/2"	3"					
EP5314	5	3'-0"	52	STR													SEE NOTE 4

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

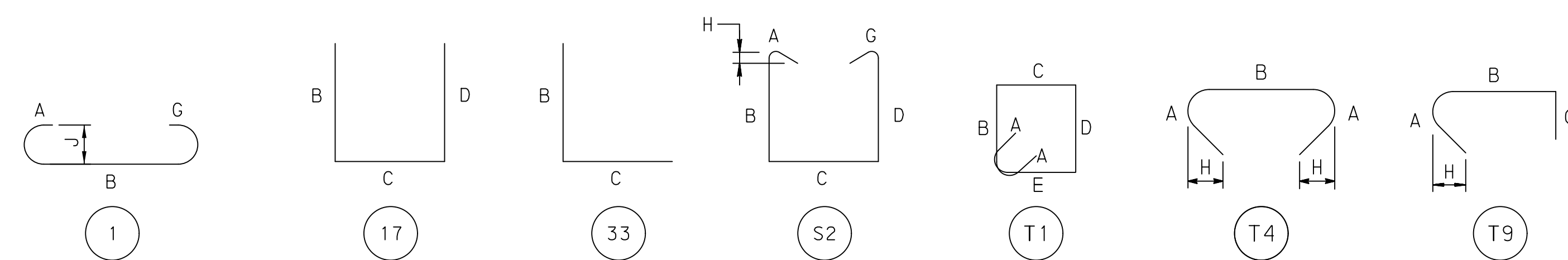
- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH 99
ABUTMENT 1:	101 THROUGH 199
ABUTMENT 2:	201 THROUGH 299
PIER 1:	301 THROUGH 399
PIER 2:	401 THROUGH 499
PIER 3:	501 THROUGH 599
APPROACH SLAB 1:	601 THROUGH 699
APPROACH SLAB 2:	701 THROUGH 799
MOMENT SLAB:	801 THROUGH 899

NOTES

1. ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR.
2. STR DENOTES STRAIGHT BAR.
3. FIGURES IN CIRCLES SHOW BAR TYPE.
4. BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.
5. THE LENGTH OF LEG "B" IS MEASURED FROM THE CONSTRUCTION JOINT TO THE END OF THE LEG. TOTAL LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

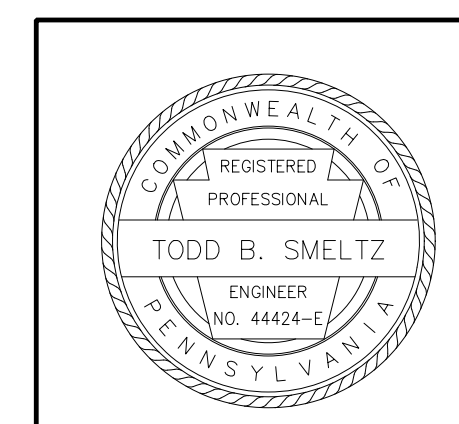


Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 1 REINFORCEMENT BAR SCHEDULE



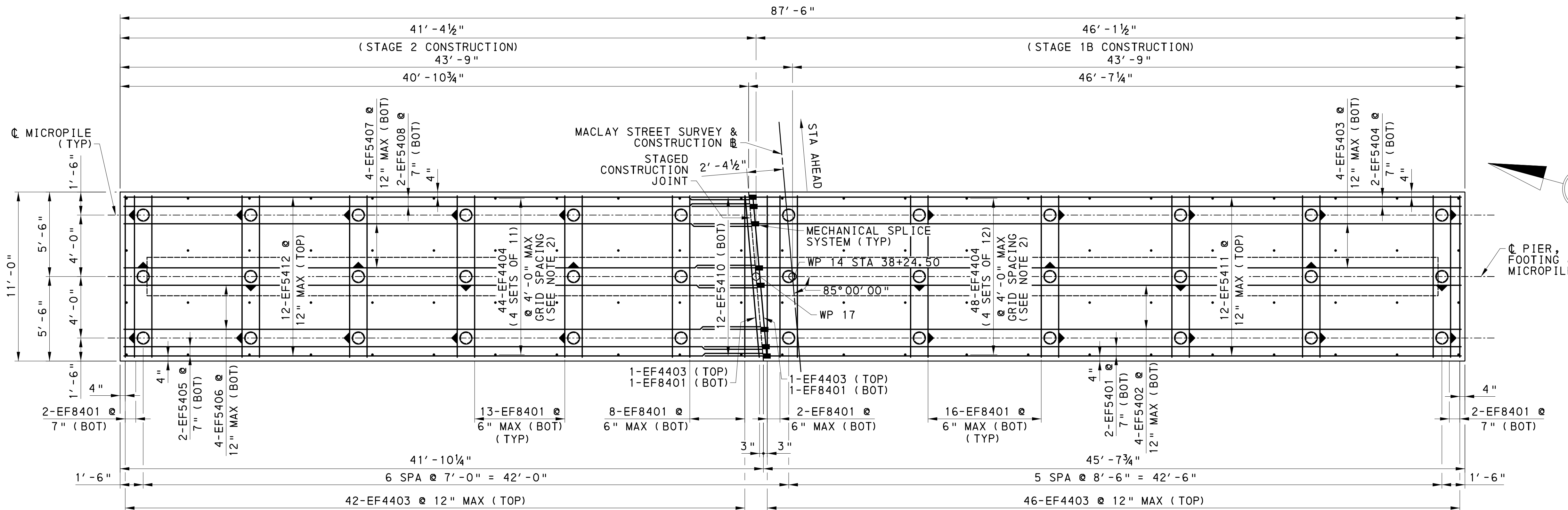
RECOMMENDED 2026.05.15

SHEET 26 OF 97

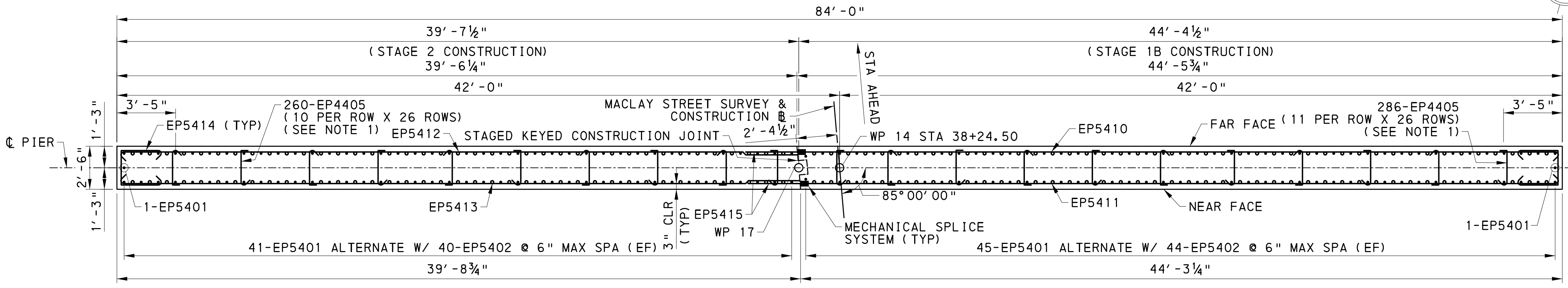
S-42336

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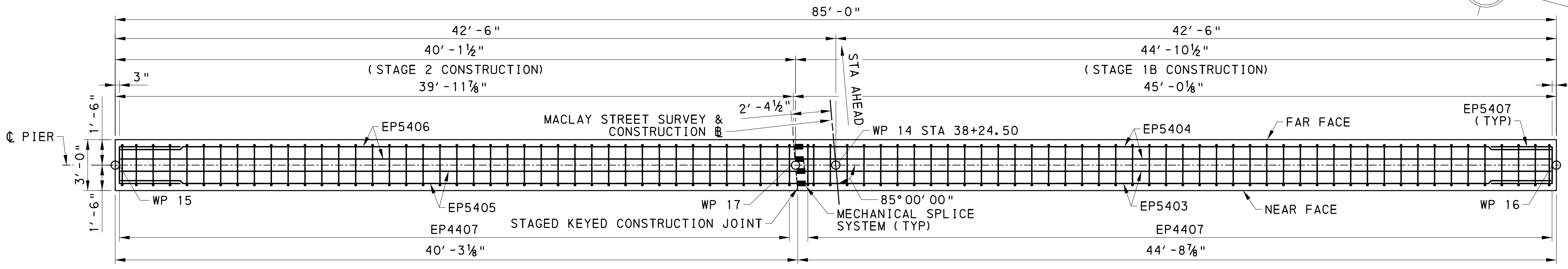
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PIER 2 FOOTING & PILE PLAN



SECTION X2B-X2B (SH 28)



SECTION X2T-X2T (SH 28)



LEGEND

- DENOTES MICROPILE BATTERED 3H:12V IN DIRECTION OF ARROW
- DENOTES VERTICAL MICROPILE

NOTES

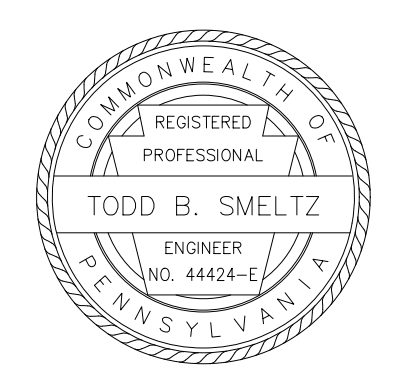
1. ALL HOOKS ON TIES MUST ENGAGE VERTICAL COLUMN REINFORCING STEEL. ALTERNATE 90° & 135° HOOKS ON CROSS TIES, BOTH VERTICALLY AND HORIZONTALLY.
2. ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

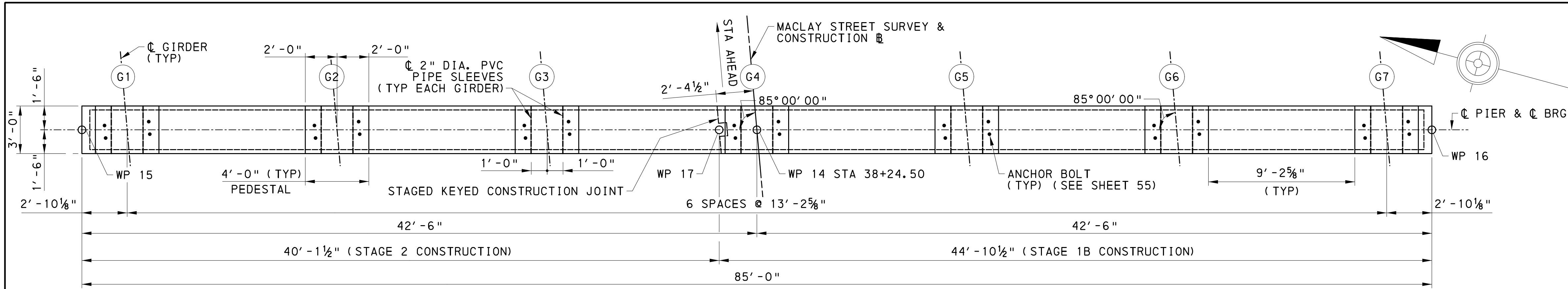
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 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 2 FOOTING PLAN

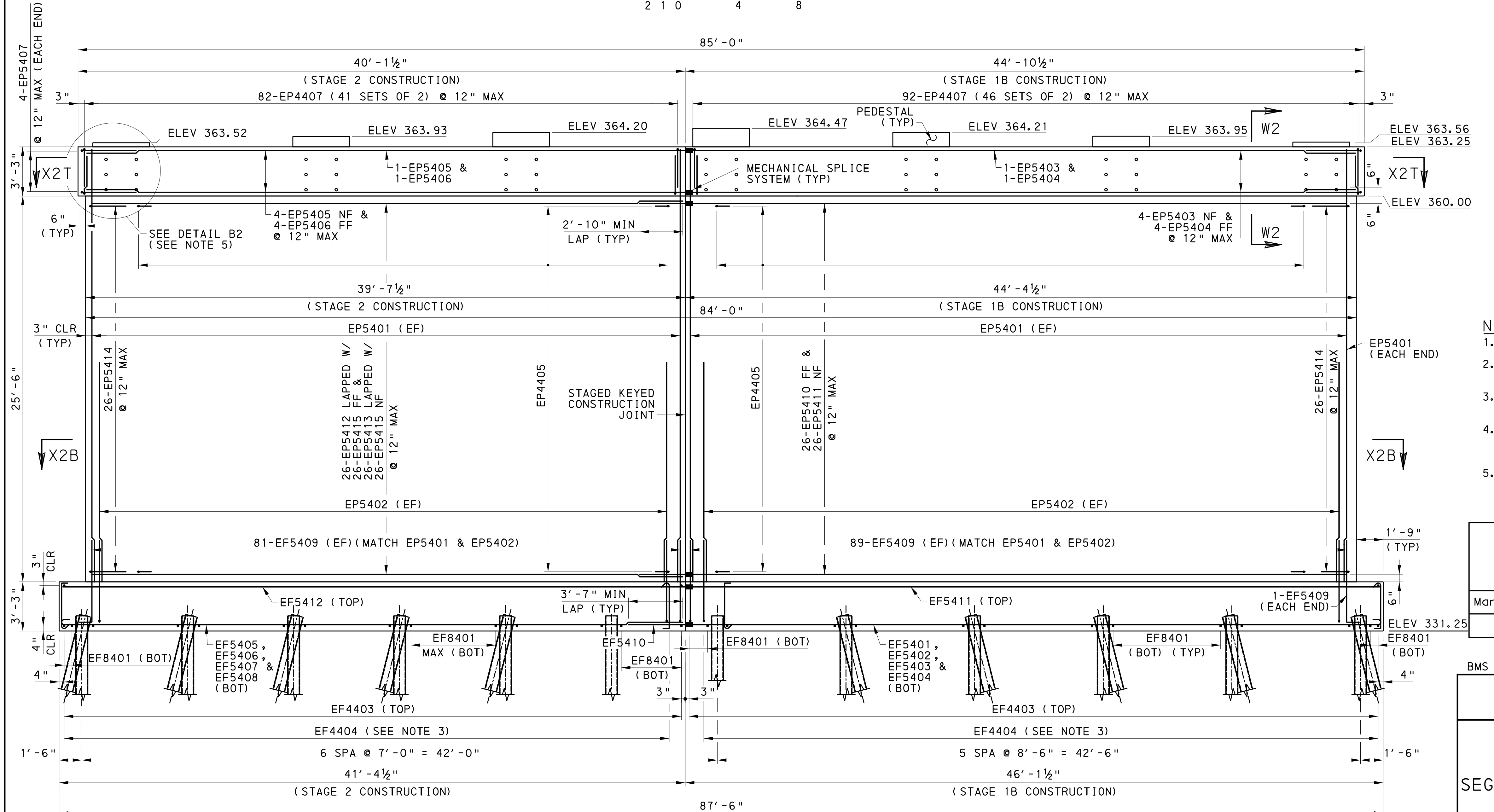


RECOMMENDED 2026.05.15 SHEET 27 OF 97

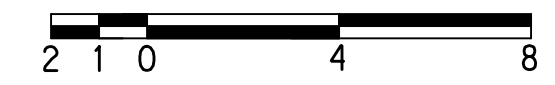
PIER 2 PILE LOADING - 9.625" OD MICROPILE				
	CONTROLLING LIMIT STATE	LOAD CASE	FACTORED LOAD	RESISTANCE
AXIAL (KIPS)	STR-I	1	325.9 KIP	362.8 KIP
LATERAL (KIPS/FT)	EXT-II	1	603.6 KIP	879.87 KIP



PIER 2 CAP PLAN



PIER 2 ELEVATION



NOTES

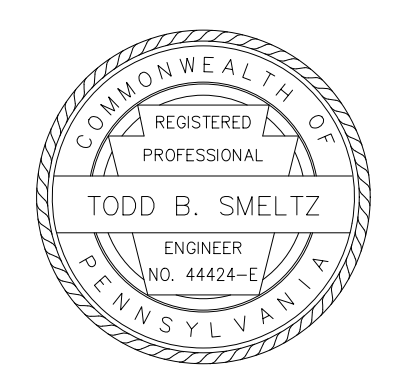
1. FOR SECTIONS X2B-X2B AND X2T-X2T, SEE SHEET 27.
2. FOR KEYED CONSTRUCTION JOINT DETAILS, SEE STANDARD DRAWING BC-735M.
3. ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.
4. ADJUST PVC PIPE SPACING TO CLEAR PIER CAP REINFORCEMENT. INSTALL THREADED CAP AT EACH END OF PVC PIPE.
5. FOR ADDITIONAL PIER CAP DETAILS, PIER 2 TYPICAL SECTION AND SECTION W2-W2, SEE SHEET 29.

Mark	Description	By	Chk'd.	Recm'd.	Date
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PIER 2 PLAN & ELEVATION



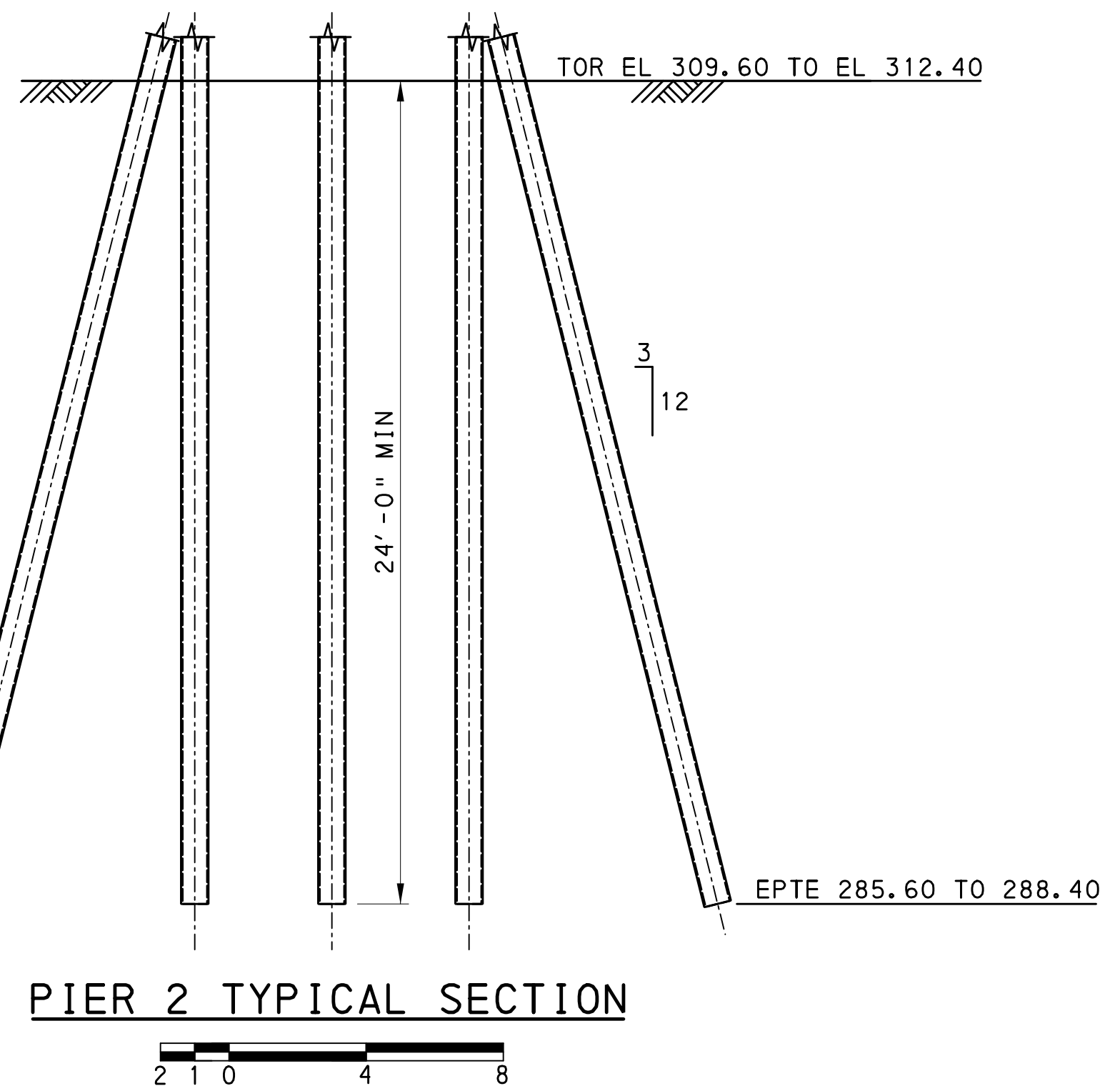
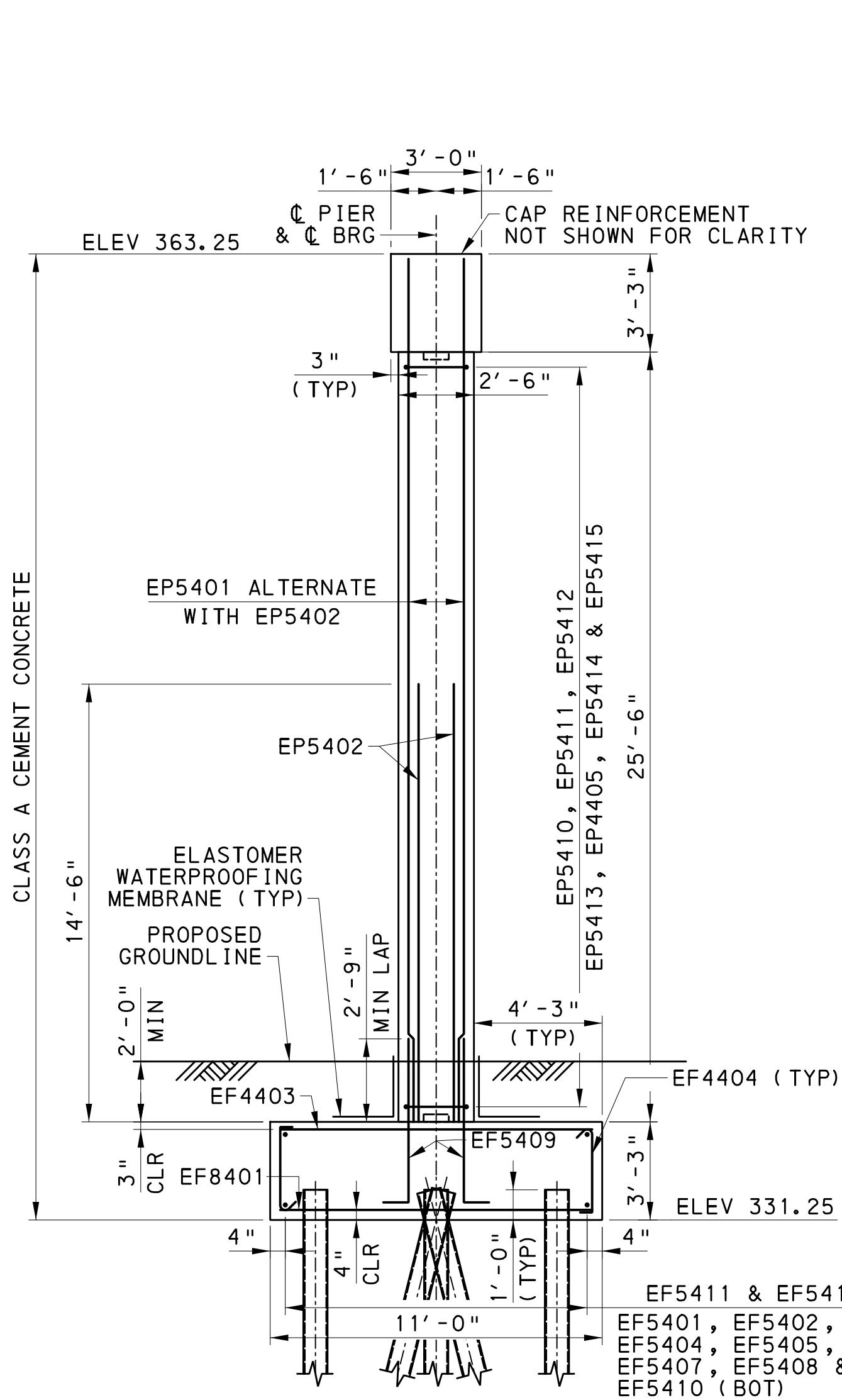
RECOMMENDED 2026.05.15

SHEET 28 OF 97

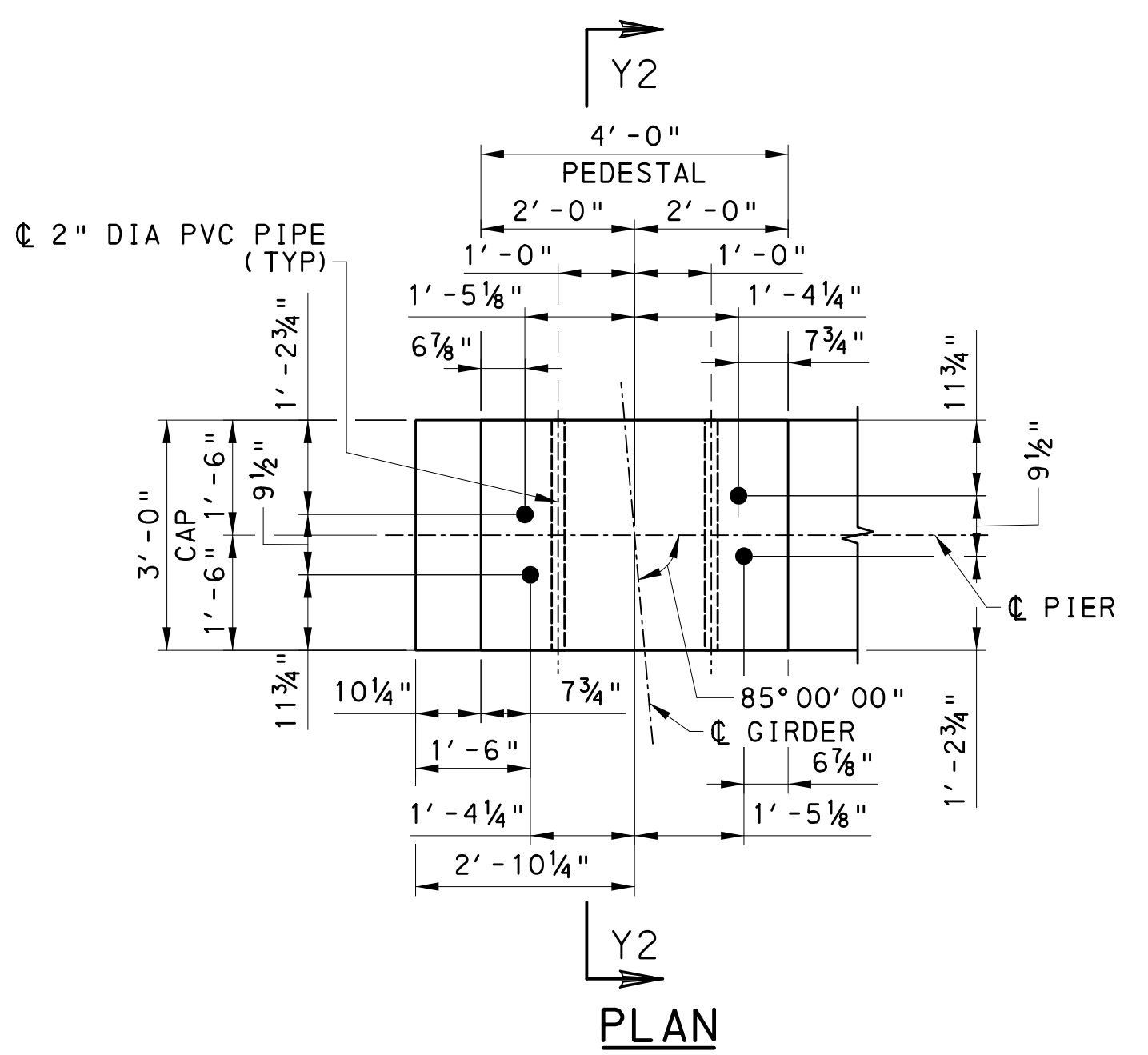
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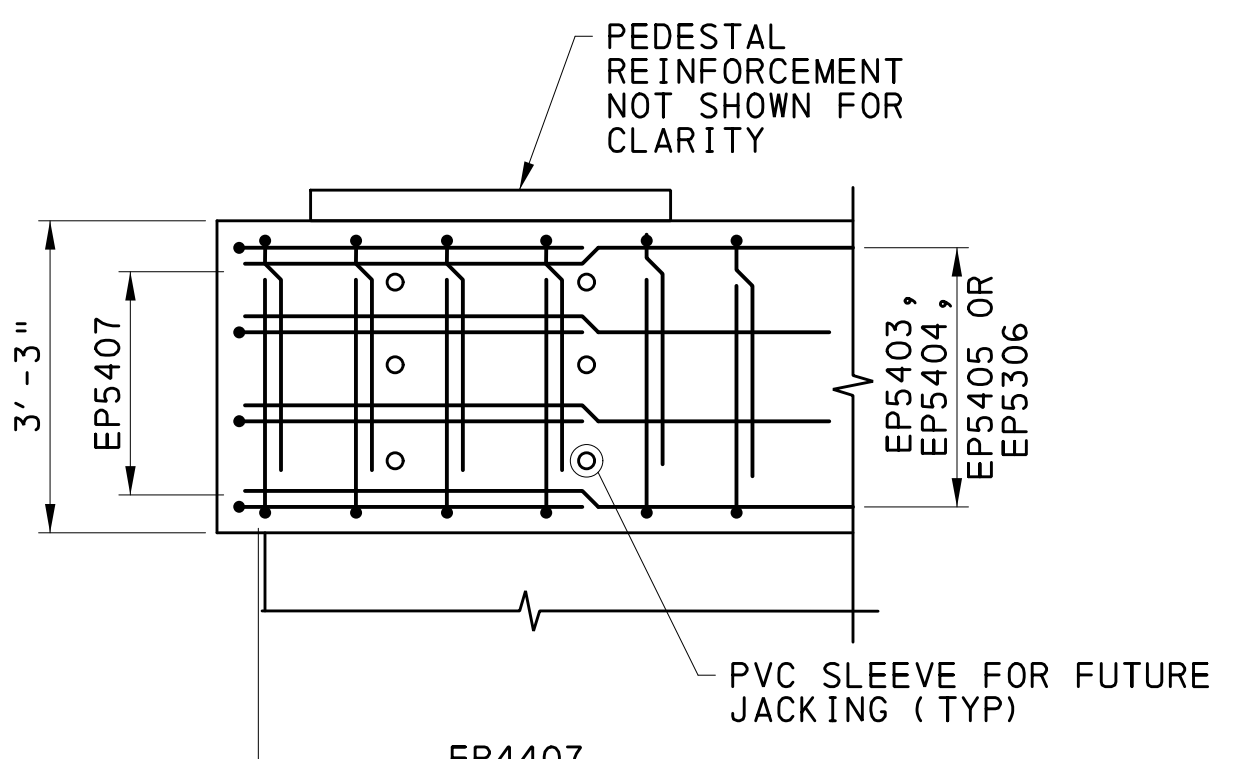


PIER 2 TYPICAL SECTION

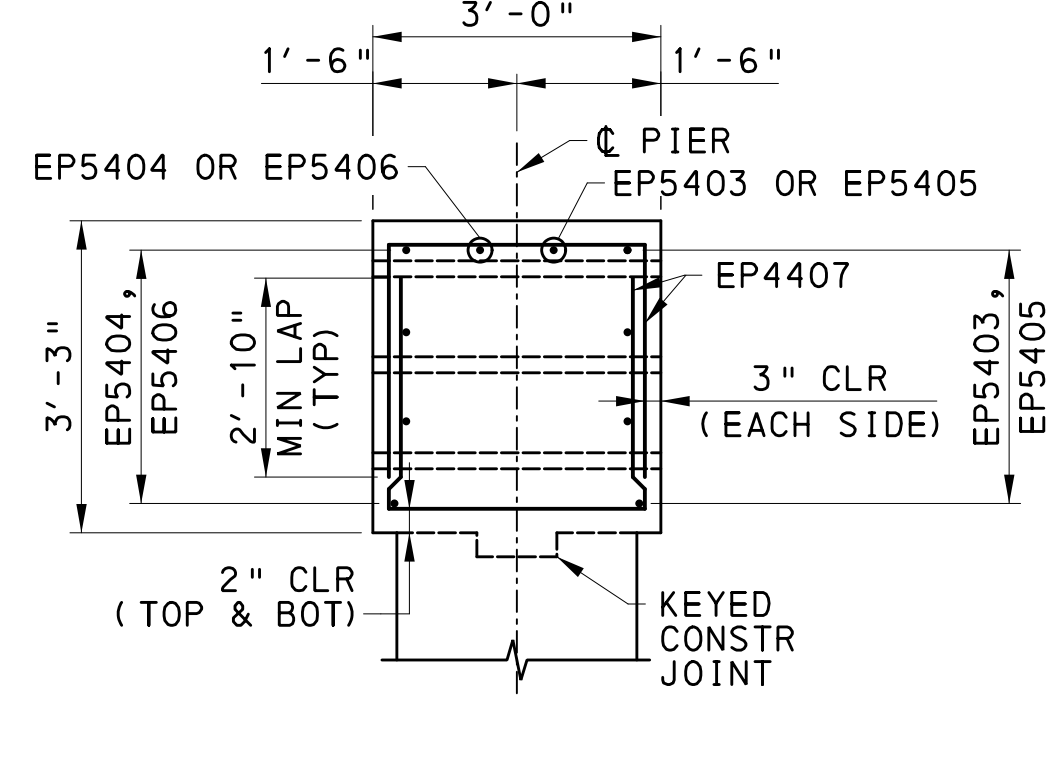


ANCHOR BOLT & FUTURE JACKING SLEEVE PIER 2 DETAILS

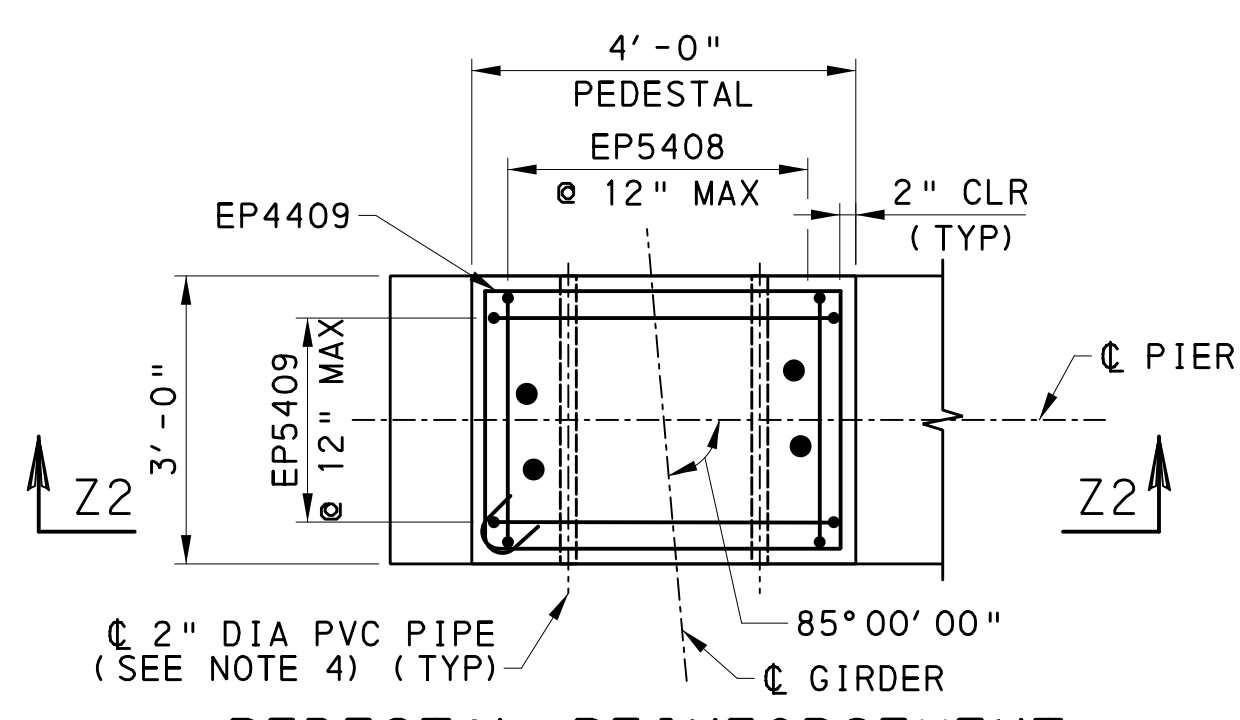
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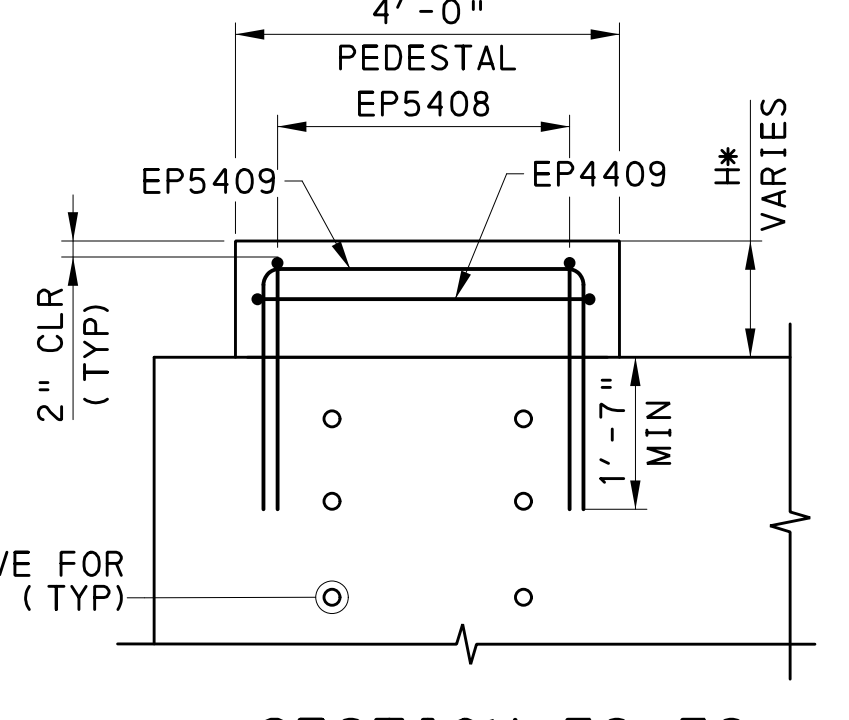
DETAIL B2 (SH 28)



SECTION W2-W2 (SH 28)

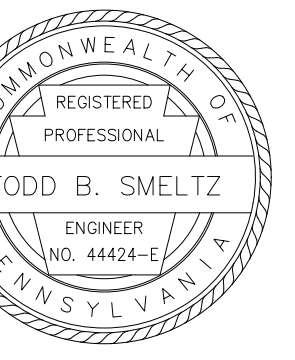


PEDESTAL REINFORCEMENT



SECTION Z2-Z2

PEDESTAL REINFORCEMENT DETAIL							
LOCATION	G1	G2	G3	G4	G5	G6	G7
H* (FT)	0.15	0.68	0.95	1.22	0.96	0.70	0.18
EP4409	-	1	1	1	1	1	-
EP5408	-	5	5	5	5	5	-
EP5409	-	4	4	4	4	4	-



NOTES

- FOR PIER 2 CAP PLAN AND ELEVATION, SEE SHEET 28.
- FOR KEYED CONSTRUCTION JOINT DETAILS, SEE BC-735M.
- FOR STEM TO FOOTING PIER WATERPROOFING DETAILS, SEE BC-788M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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 DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 2 TYPICAL SECTION

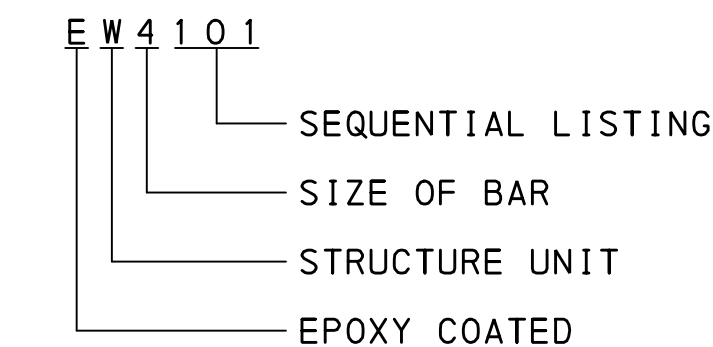
RECOMMENDED 2026.05.15
 SHEET 29 OF 97
 S-42336

REINFORCEMENT BAR SCHEDULE

PIER 2

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
FOOTING																	
EF4403	4	10'-6"	90	STR													
EF4404	4	3'-5"	92	T9	4 1/2"	2'-8"	4 1/2"					3"					
EF5401	5	46'-0"	2	1	7"	45'-5"								5"			SEE NOTE 5
EF5402	5	VARIES 46'-2" TO 46'-5"	4	1	7"	45'-7" TO 45'-10"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5403	5	VARIES 46'-6" TO 46'-9"	4	1	7"	45'-11" TO 46'-2"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5404	5	46'-10"	2	1	7"	46'-3"								5"			SEE NOTE 5
EF5405	5	42'-0"	2	1	7"	41'-5"								5"			
EF5406	5	VARIES 41'-8" TO 41'-11"	4	1	7"	41'-1" TO 41'-4"								5"			VARY BY 1" - 1 EA
EF5407	5	VARIES 41'-4" TO 41'-7"	4	1	7"	40'-9" TO 41'-0"								5"			VARY BY 1" - 1 EA
EF5408	5	41'-2"	2	1	7"	40'-7"								5"			
EF5409	5	6'-8"	342	33		5'-10"	10"										
EF5410	5	3'-9"	12	STR													SEE NOTE 4
EF5411	5	VARIES 45'-5" TO 46'-4"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF5412	5	VARIES 40'-8" TO 41'-7"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF8401	8	10'-6"	161	STR													
STEM & CAP																	
EP4405	4	2'-9"	546	T9	4 1/2"	2'-0"	4 1/2"					3"					
EP4407	4	8'-4"	174	T1		2'-11"	2'-6"	2'-11"									
EP4409	4	13'-5"	4	T1	4 1/2"	2'-8"	3'-8"	2'-8"	3'-8"								
EP5401	5	28'-6"	174	STR													
EP5402	5	16'-7"	168	STR													
EP5403	5	44'-6"	5	STR													SEE NOTE 4
EP5404	5	44'-8"	5	STR													SEE NOTE 4
EP5405	5	31'-11"	5	STR													SEE NOTE 4
EP5406	5	31'-9"	5	STR													SEE NOTE 4
EP5407	5	9'-8"	8	T1		3'-7"	2'-6"	3'-7"									
EP5408	5	8'-1"	25	T1		2'-9"	2'-7"	2'-9"									
EP5409	5	9'-1"	20	T1		2'-9"	3'-7"	2'-9"									
EP5410	5	44'-7"	26	T4	4 1/2"	44'-2 1/2"						3"					SEE NOTE 4
EP5411	5	44'-5"	26	T4	4 1/2"	44'-0 1/2"						3"					SEE NOTE 4
EP5412	5	39'-7"	26	T4	4 1/2"	39'-2 1/2"						3"					
EP5413	5	39'-9"	26	T4	4 1/2"	39'-4 1/2"						3"					
EP5414	5	7'-2"	52	S2	4 1/2"	2'-2 1/2"	2'-0"	2'-2 1/2"			4 1/2"	3"					
EP5415	5	3'-0"	52	STR													SEE NOTE 4

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

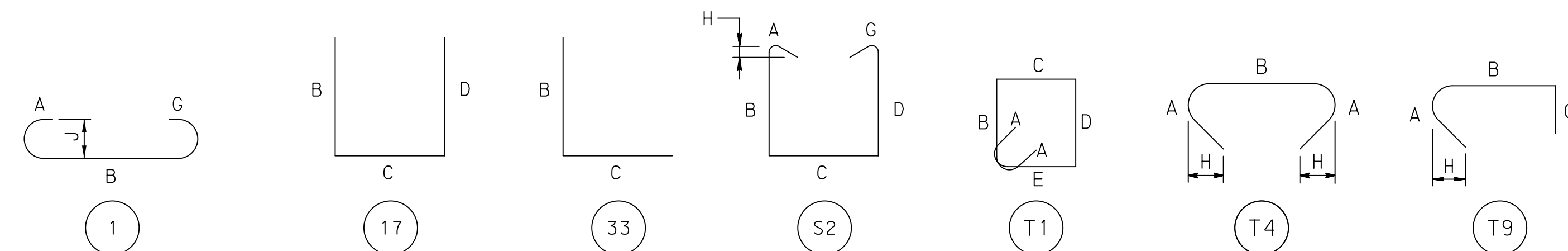
- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR.
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.
- THE LENGTH OF LEG "B" IS MEASURED FROM THE CONSTRUCTION JOINT TO THE END OF THE LEG. TOTAL LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

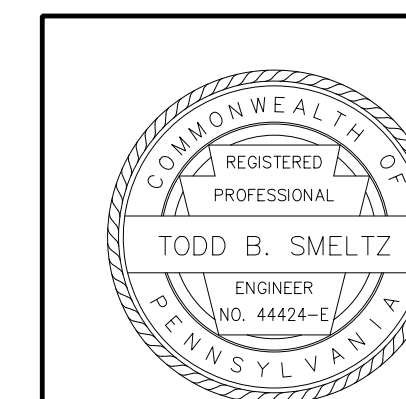


Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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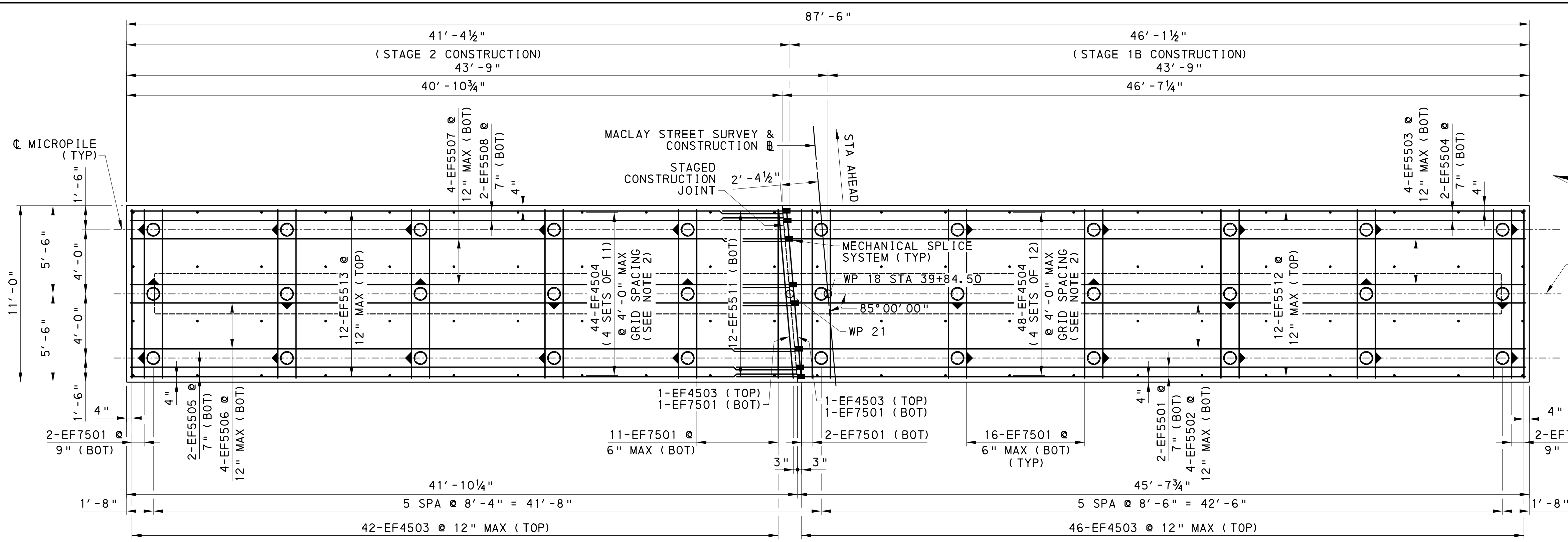
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
PIER 2 REINFORCEMENT BAR SCHEDULE



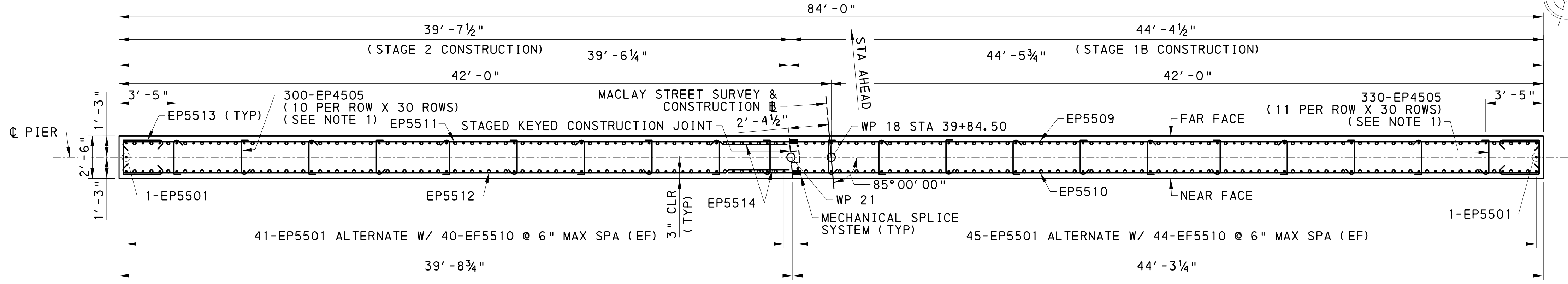
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SHEET 30 OF 97

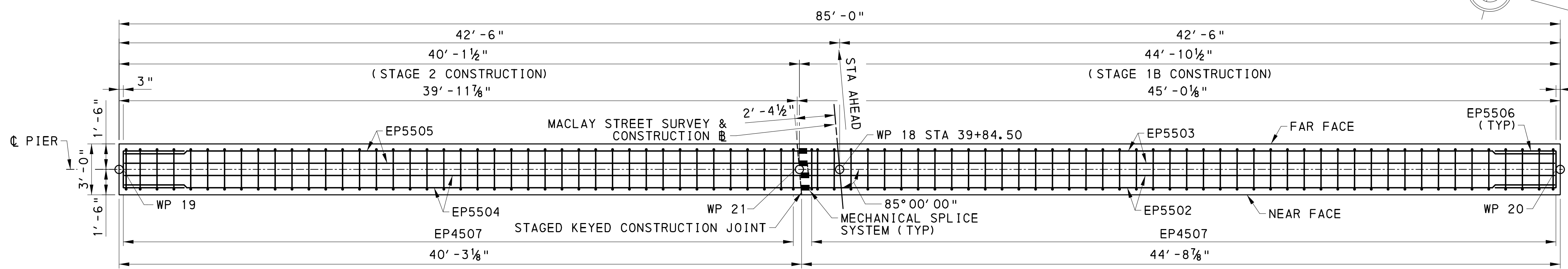
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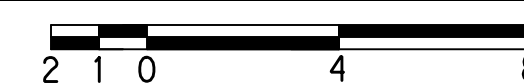
PIER 3 FOOTING & PILE PLAN



SECTION X3B-X3B (SH 32)



SECTION X3T-X3T (SH 32)



LEGEND

- DENOTES MICROPILE BATTERED 3H:12V IN DIRECTION OF ARROW
- DENOTES VERTICAL MICROPILE

NOTES

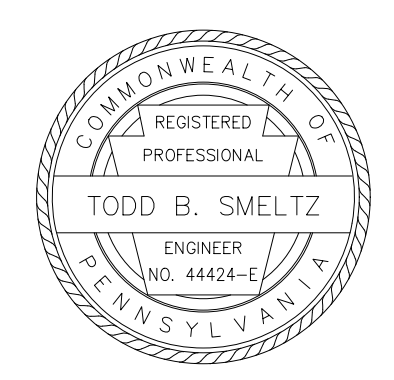
1. ALL HOOKS ON TIES MUST ENGAGE VERTICAL COLUMN REINFORCING STEEL. ALTERNATE 90° & 135° HOOKS ON CROSS TIES, BOTH VERTICALLY AND HORIZONTALLY.
2. ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
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 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 3 FOOTING PLAN

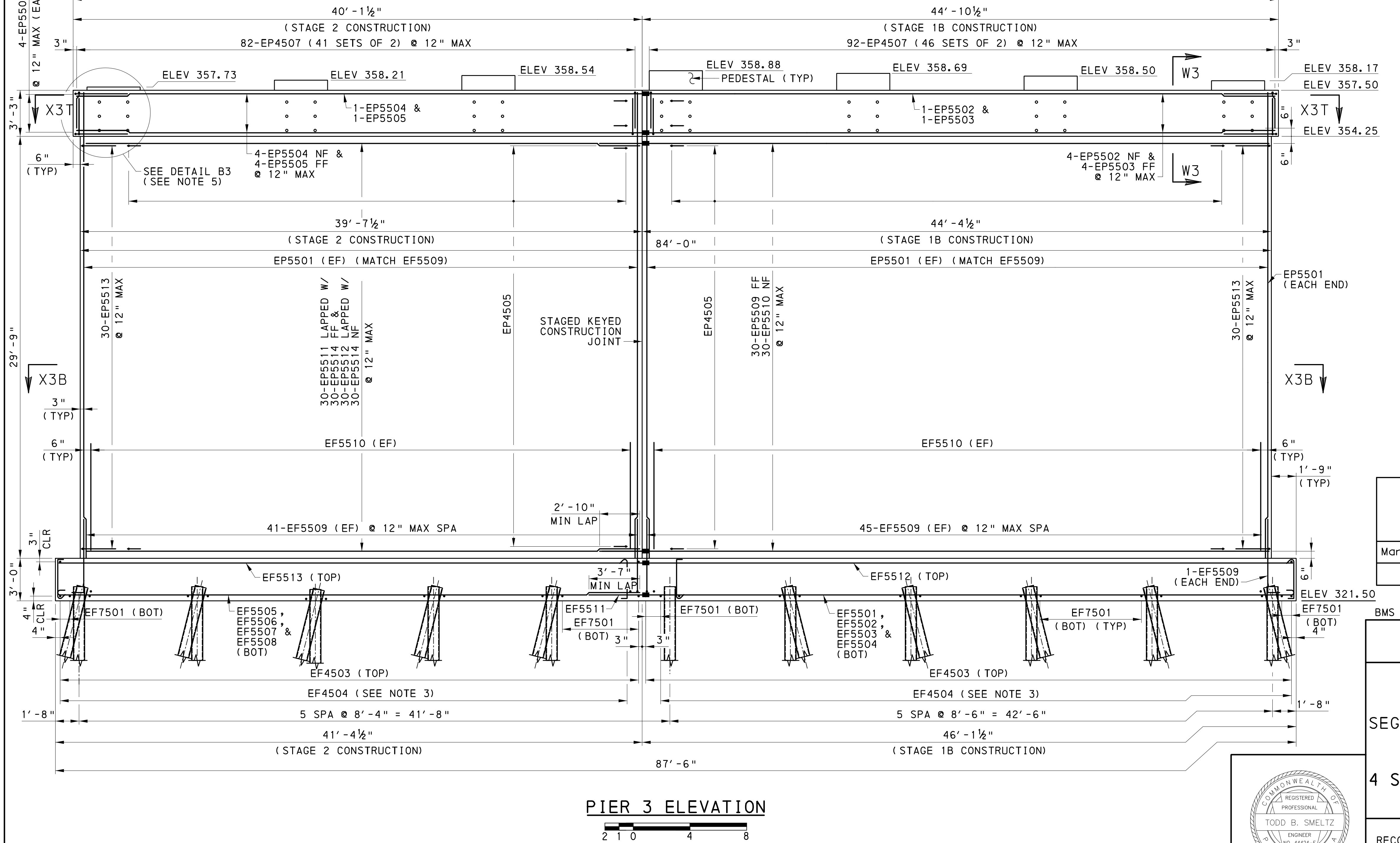
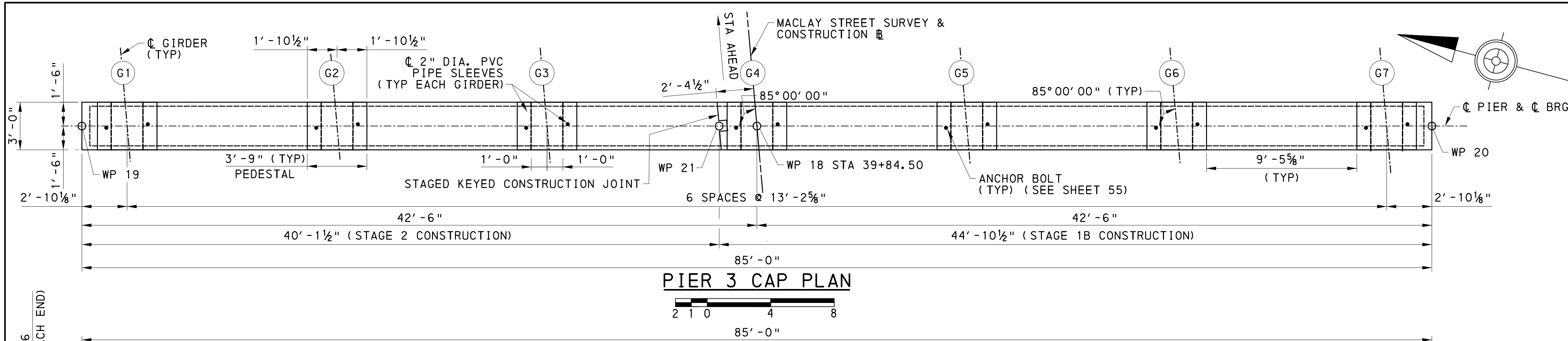


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SHEET 31 OF 97

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PIER 3 PILE LOADING - 9.625" OD MICROPILE				
	CONTROLLING LIMIT STATE	LOAD CASE	FACTORED LOAD	RESISTANCE
AXIAL (KIPS)	STR-I	21	352.1 KIP	362.8 KIP
LATERAL (KIPS/FT)	EXT-II	1	600.0 KIP	879.87 KIP



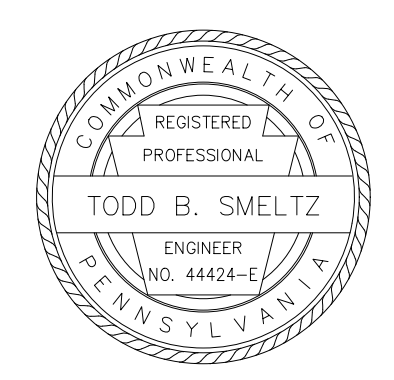
- NOTES**
- FOR SECTIONS X3T-X3T AND X3B-X3B, SEE SHEET 31.
 - FOR KEYED CONSTRUCTION JOINT DETAILS, SEE STANDARD DRAWING BC-735M.
 - ALTERNATE 90° AND 135° HOOKS AT TOP MAT IN ALTERNATE TIES IN BOTH LENGTH AND WIDTH OF FOOTING.
 - ADJUST PVC PIPE SPACING TO CLEAR PIER CAP REINFORCEMENT. INSTALL THREADED CAP AT EACH END OF PVC PIPE.
 - FOR ADDITIONAL PIER CAP DETAILS, PIER 3 TYPICAL SECTION AND SECTION W3-W3, SEE SHEET 33.

Mark	Description	By	Chk'd.	Recm'd.	Date
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PIER 3 PLAN & ELEVATION



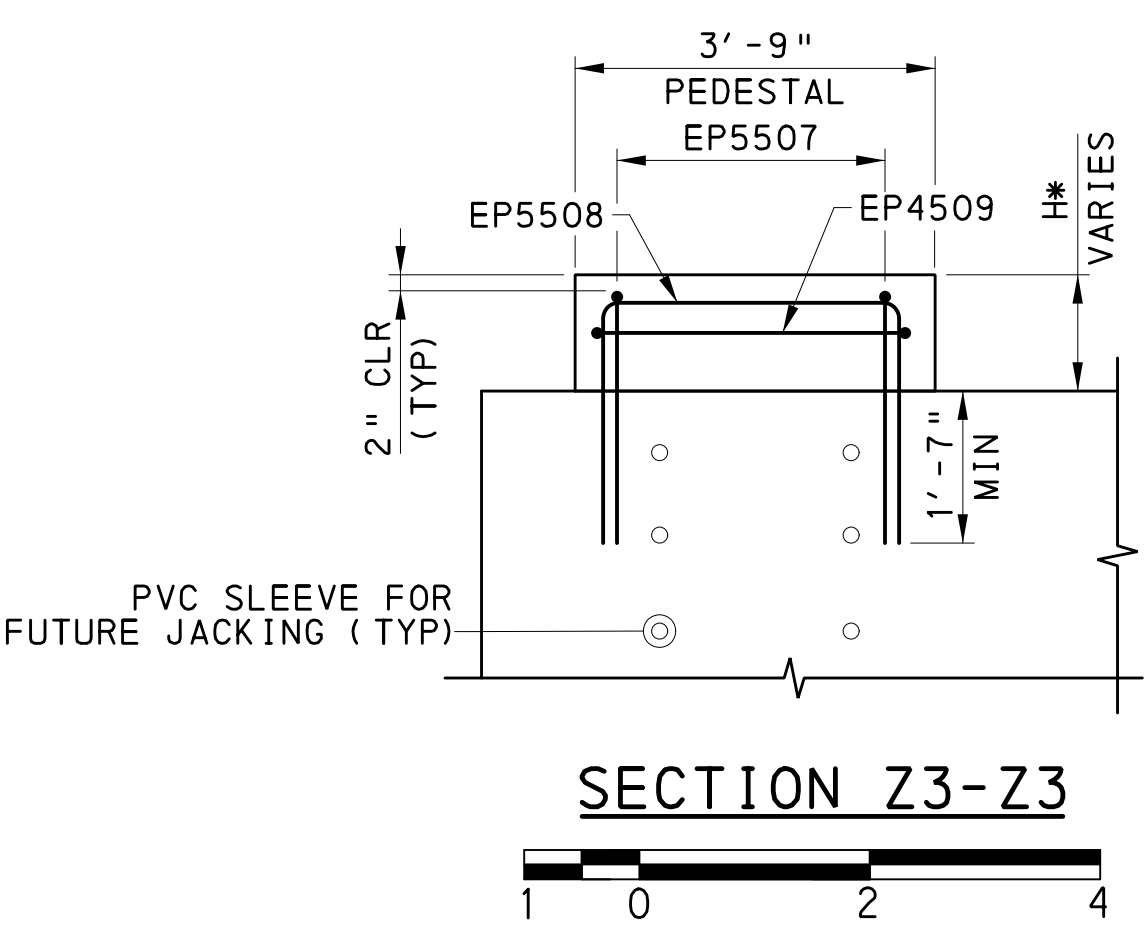
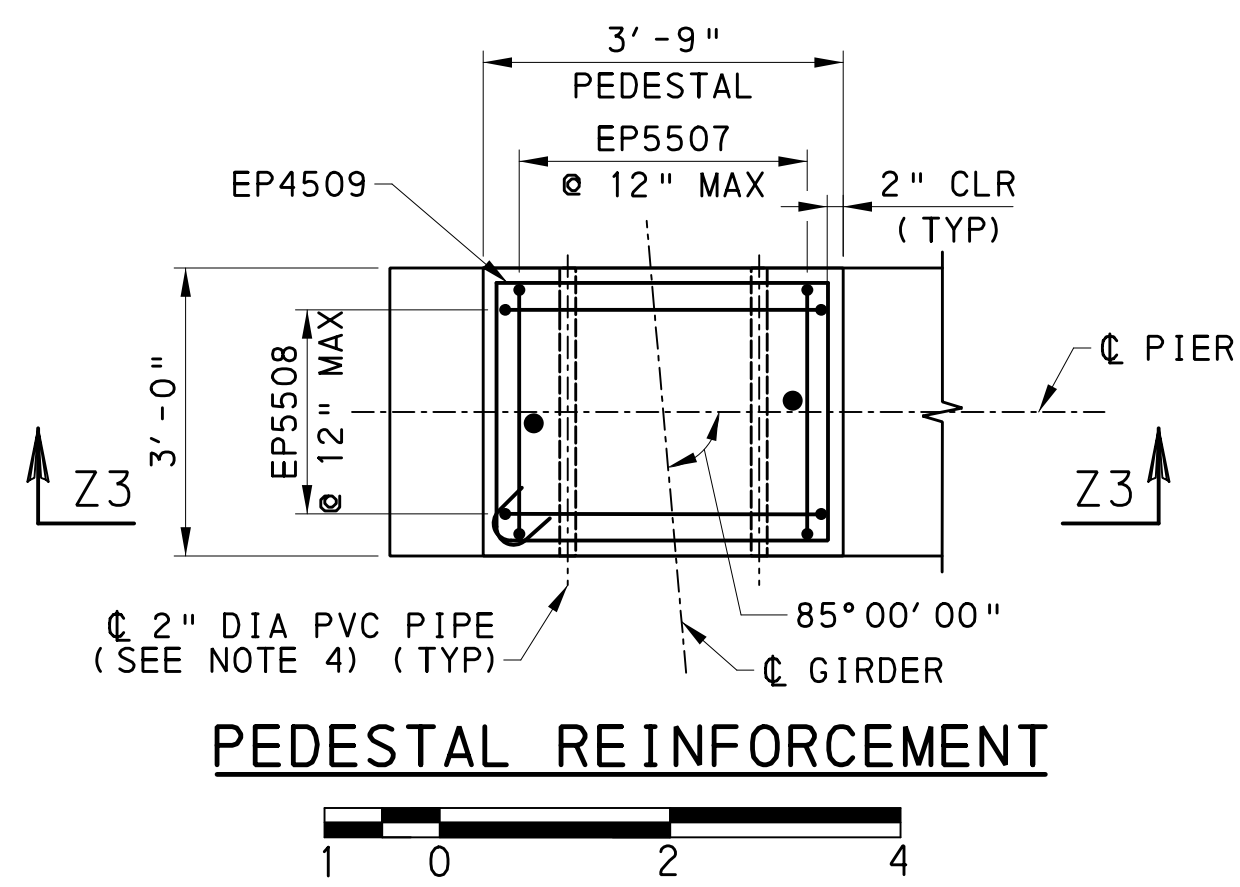
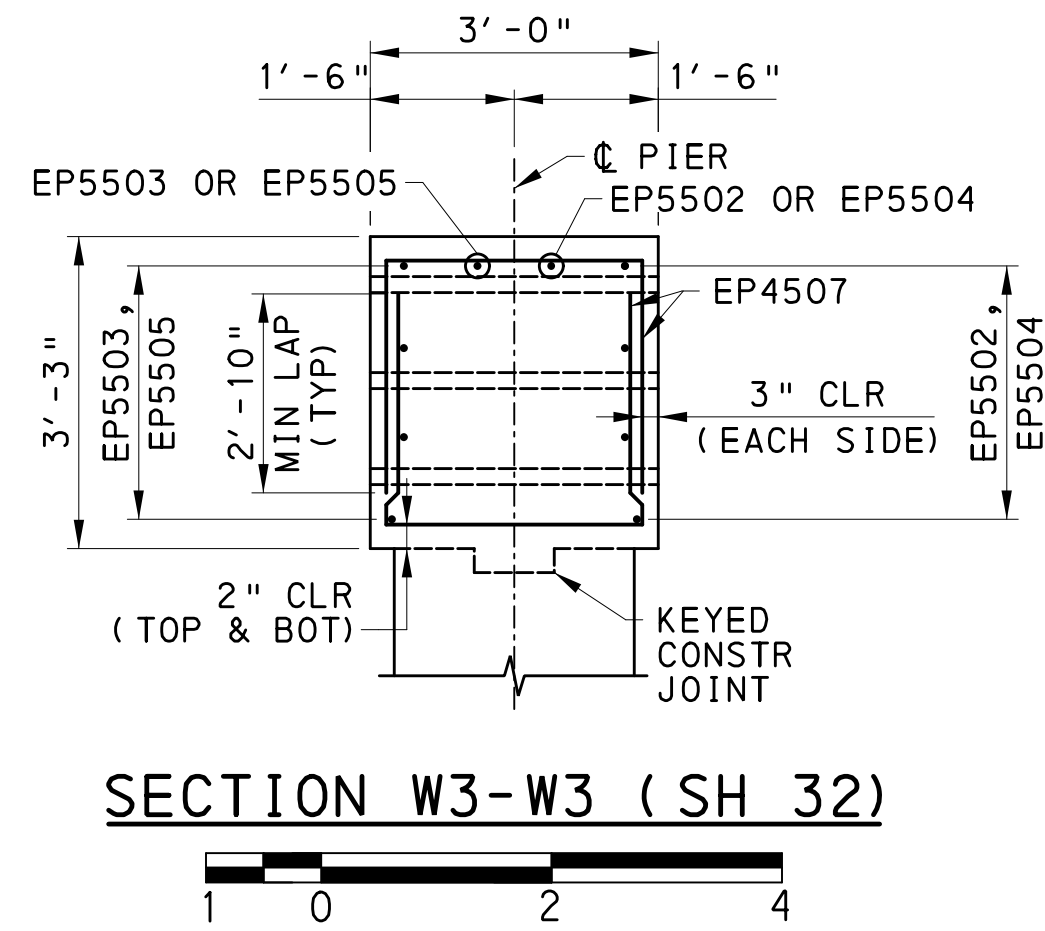
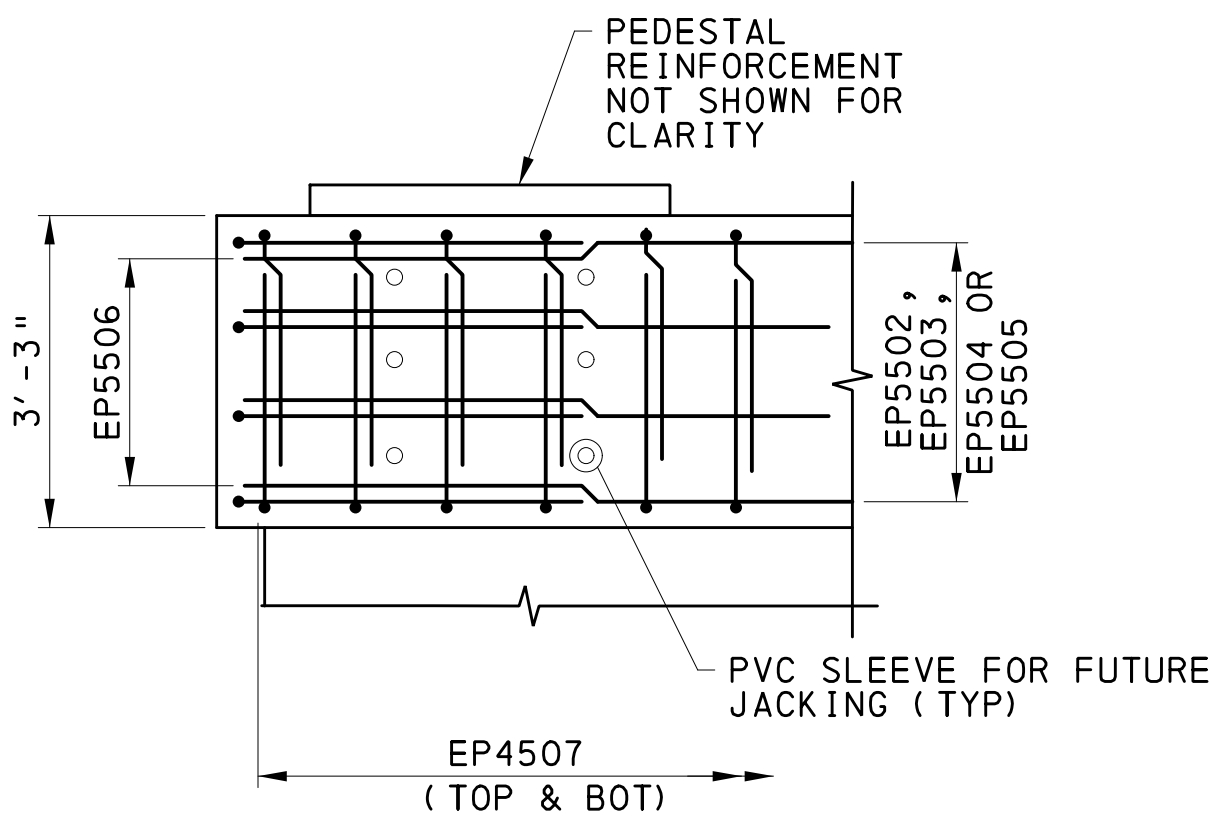
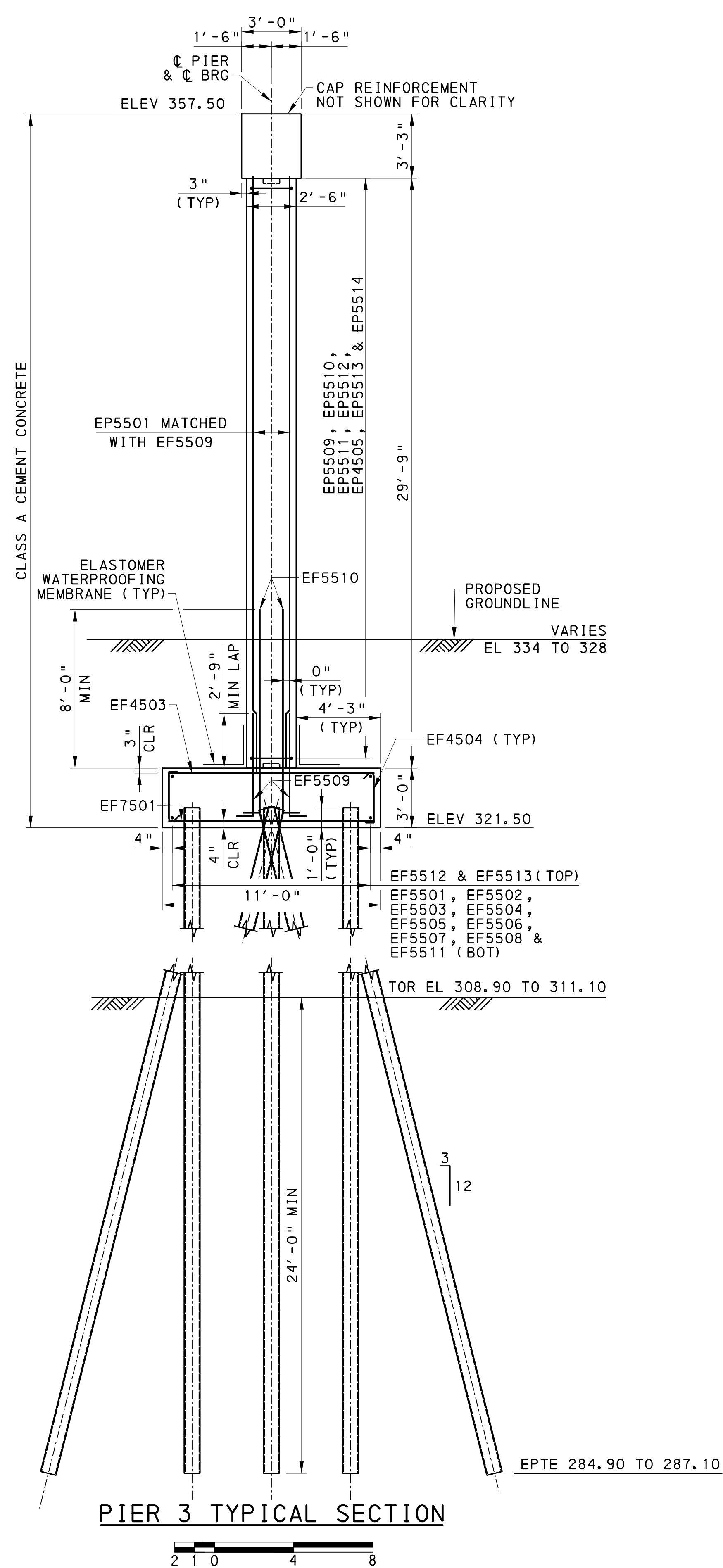
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SHEET 32 OF 97

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 DATE: 5/14/2026 TIME: 1:35:42 PM



PEDESTAL REINFORCEMENT DETAIL							
LOCATION	G1	G2	G3	G4	G5	G6	G7
H* (FT)	0.11	0.71	1.04	1.38	1.19	1.00	0.54
EP4509	-	1	1	1	1	1	-
EP5507	-	5	5	5	5	5	5
EP5508	-	4	4	4	4	4	4

NOTES

- FOR PIER 3 CAP PLAN AND ELEVATION, SEE SHEET 32.
- FOR KEYED CONSTRUCTION JOINT DETAILS, SEE BC-735M.
- FOR STEM TO FOOTING PIER WATERPROOFING DETAILS, SEE BC-788M.
- FOR FUTURE JACKING SLEEVE DETAILS, SEE SHEET 25.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

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4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
PIER 3 TYPICAL SECTION



RECOMMENDED 2026.05.15

SHEET 33 OF 97

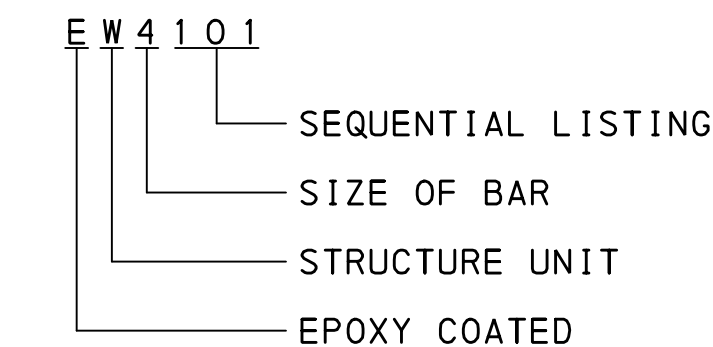
S-42336

REINFORCEMENT BAR SCHEDULE

PIER 3

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
FOOTING																	
EF4503	4	10'-6"	90	STR													
EF4504	4	3'-2"	92	T9	4 1/2"	2'-5"	4 1/2"					3"					
EF5501	5	46'-0"	2	1	7"	45'-5"								5"			SEE NOTE 5
EF5502	5	VARIES 46'-2" TO 46'-5"	4	1	7"	45'-7" TO 45'-10"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5503	5	VARIES 46'-6" TO 46'-9"	4	1	7"	45'-11" TO 46'-2"								5"			VARY BY 1" - 1 EA, SEE NOTE 5
EF5504	5	46'-10"	2	1	7"	46'-3"								5"			SEE NOTE 5
EF5505	5	42'-0"	2	1	7"	41'-5"								5"			
EF5506	5	VARIES 41'-8" TO 41'-11"	4	1	7"	41'-1" TO 41'-4"								5"			VARY BY 1" - 1 EA
EF5507	5	VARIES 41'-4" TO 41'-7"	4	1	7"	40'-9" TO 41'-0"								5"			VARY BY 1" - 1 EA
EF5508	5	41'-2"	2	1	7"	40'-7"								5"			
EF5509	5	6'-6"	174	33		5'-7"	10"										
EF5510	5	11'-6"	168	33		10'-8"	10"										
EF5511	5	3'-9"	12	STR													SEE NOTE 4
EF5512	5	VARIES 45'-5" TO 46'-4"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF5513	5	VARIES 40'-8" TO 41'-7"	12	STR													VARY BY 1" - 1 EA, SEE NOTE 4
EF7501	7	12'-6"	163	STR													
STEM & CAP																	
EP4505	4	2'-9"	630	T9	4 1/2"	2'-0"	4 1/2"					3"					
EP4507	4	8'-4"	174	17		2'-11"	2'-6"	2'-11"									
EP4509	4	12'-11"	5	T1	4 1/2"	2'-8"	3'-5"	2'-8"	3'-5"								
EP5501	5	32'-8"	174	STR													
EP5502	5	44'-6"	5	STR													SEE NOTE 4
EP5503	5	44'-8"	5	STR													SEE NOTE 4
EP5504	5	31'-11"	5	STR													SEE NOTE 4
EP5505	5	31'-9"	5	STR													SEE NOTE 4
EP5506	5	9'-8"	8	17		3'-7"	2'-6"	3'-7"									
EP5507	5	8'-1"	30	17		2'-9"	2'-7"	2'-9"									
EP5508	5	8'-10"	24	17		2'-9"	3'-4"	2'-9"									
EP5509	5	44'-7"	30	T4	4 1/2"	44'-2 1/2"						3"					SEE NOTE 5
EP5510	5	44'-5"	30	T4	4 1/2"	44'-0 1/2"						3"					SEE NOTE 5
EP5511	5	39'-7"	30	T4	4 1/2"	39'-2 1/2"						3"					
EP5512	5	39'-9"	30	T4	4 1/2"	39'-4 1/2"						3"					
EP5513	5	7'-2"	60	S2	4 1/2"	2'-2 1/2"	2'-0"	2'-2 1/2"			4 1/2"	3"					
EP5514	5	3'-0"	60	STR													SEE NOTE 4

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

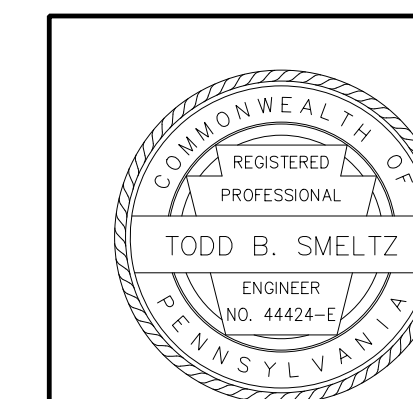
- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" OF STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.
- THE LENGTH OF LEG 'B' IS MEASURED FROM THE CONSTRUCTION JOINT TO THE END OF THE LEG. TOTAL LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 PIER 3 REINFORCEMENT BAR SCHEDULE

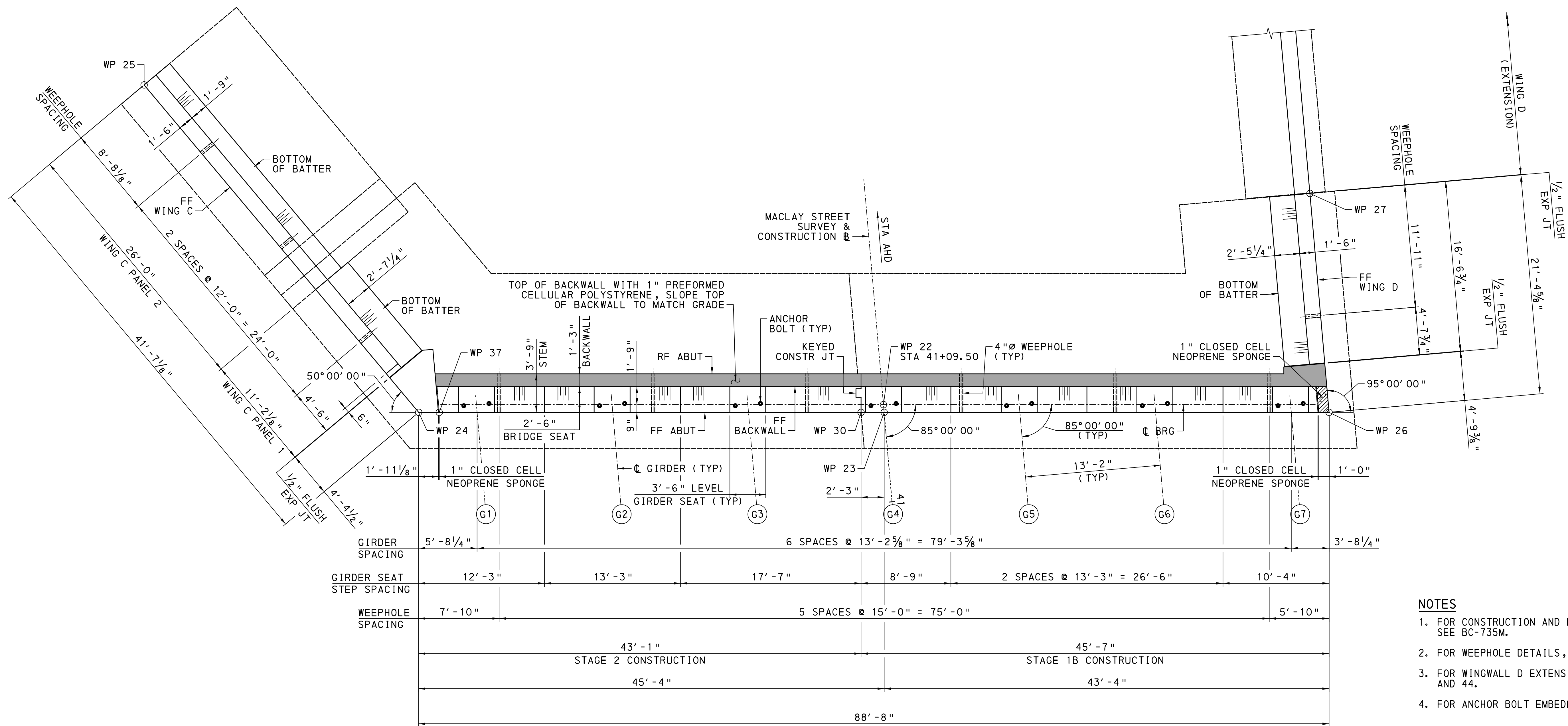


RECOMMENDED 2026.05.15

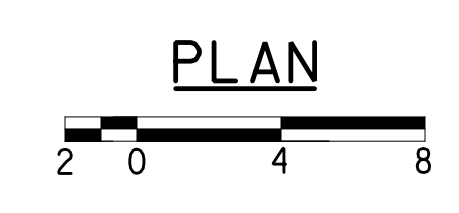
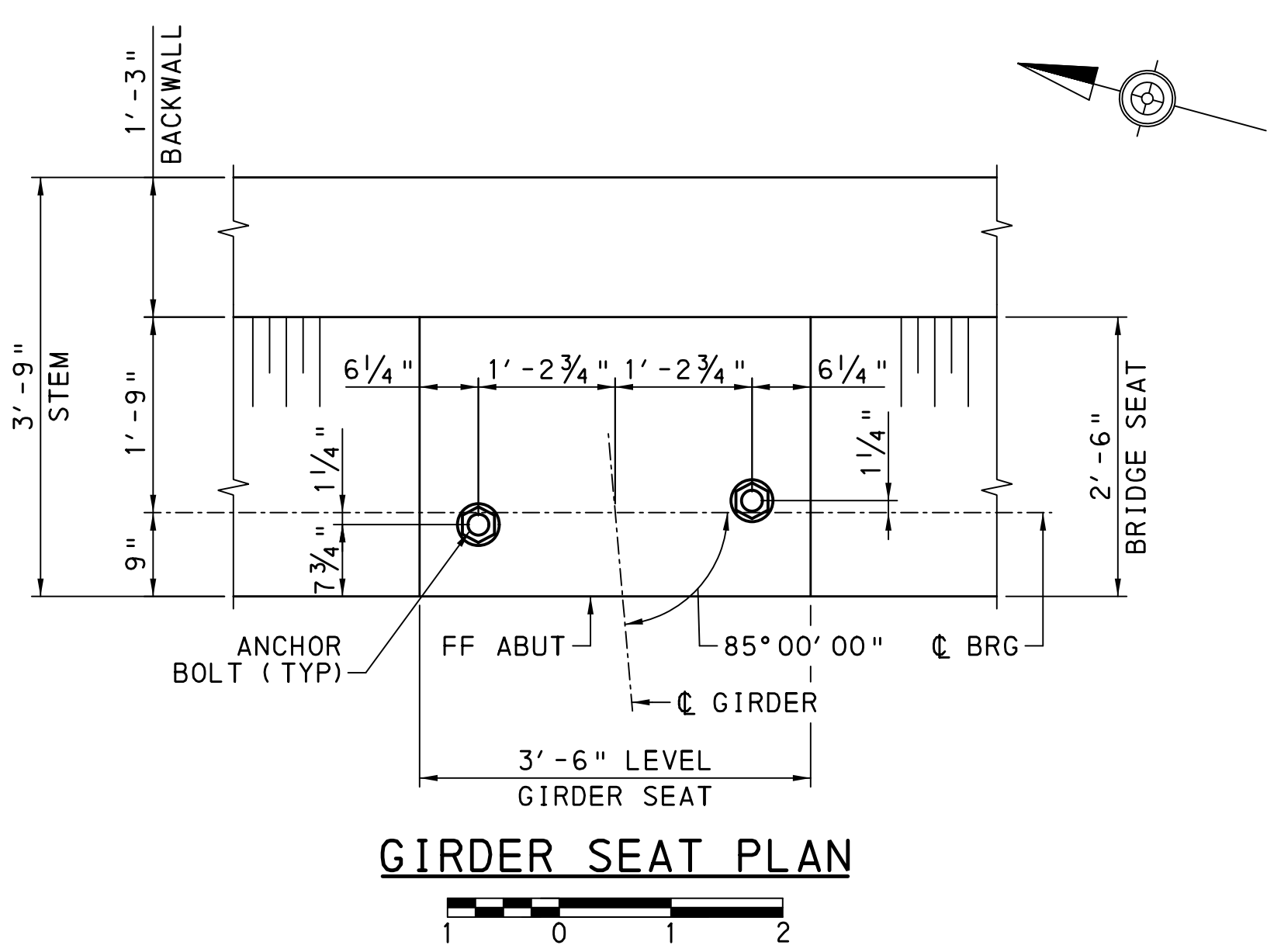
SHEET 34 OF 97

S-42336

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- NOTES**
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
 2. FOR WEEPHOLE DETAILS, SEE SHEET 38 AND BC-751M.
 3. FOR WINGWALL D EXTENSION DETAILS, SEE SHEETS 43 AND 44.
 4. FOR ANCHOR BOLT EMBEDMENT DETAILS, SEE SHEET 55.



Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 PLAN

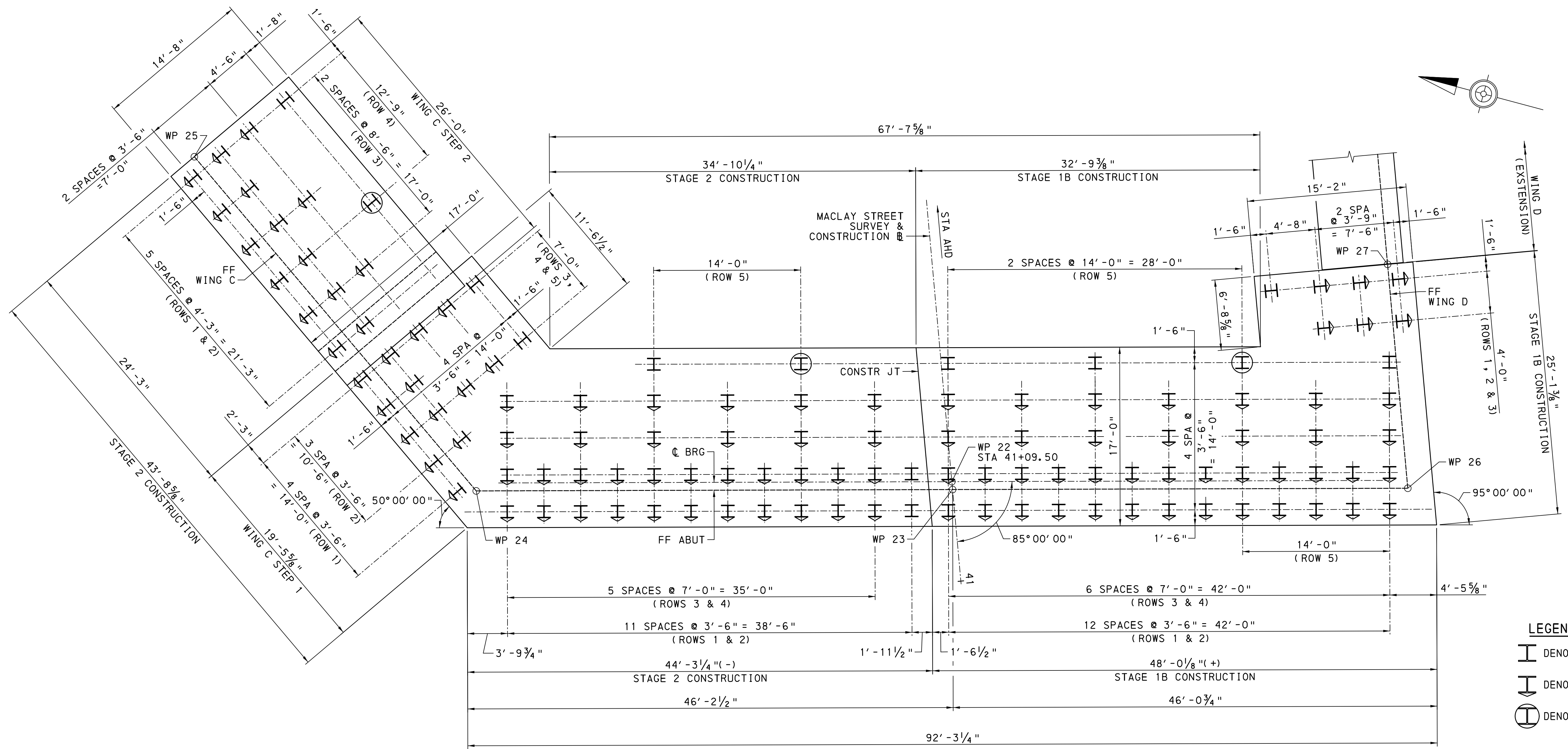


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SHEET 35 OF 97

S-42336

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- LEGEND**
- DENOTES HP 14x89 VERTICAL PILE.
 - DENOTES HP 14x89 BATTERED PILE.
 - DENOTES HP 14x89 TEST PILE.

FOOTING PILE PLAN

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

FOUNDATION DESIGN PARAMETERS	ABUTMENT 2	WING C		WING D
		STEP 1	STEP 2	
FACTORED MAXIMUM AXIAL PILE LOAD	150.4 KIP	130.7 KIP	155.3 KIP	146.6 KIP
FACTORED AXIAL PILE RESISTANCE	185.0 KIP			
CONTROLLING LIMIT STATE	STR-I	STR-III	STR-III	STR-I
CONTROLLING MAX/MIN	MAXIMUM	MAXIMUM	MAXIMUM	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	TEMPORARY	TEMPORARY	FINAL
FACTORED MAXIMUM LATERAL PILE LOAD	36.18 K/FT	37.58 K/FT	25.73 K/FT	32.76 K/FT
FACTORED LATERAL PILE RESISTANCE	38.46 K/FT	38.46 K/FT	26.39 K/FT	33.65 K/FT
CONTROLLING LIMIT STATE	STR-I	STR-I	STR-I	STR-I
CONTROLLING MAX/MIN	MAXIMUM	MAXIMUM	MAXIMUM	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	FINAL	FINAL	FINAL

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

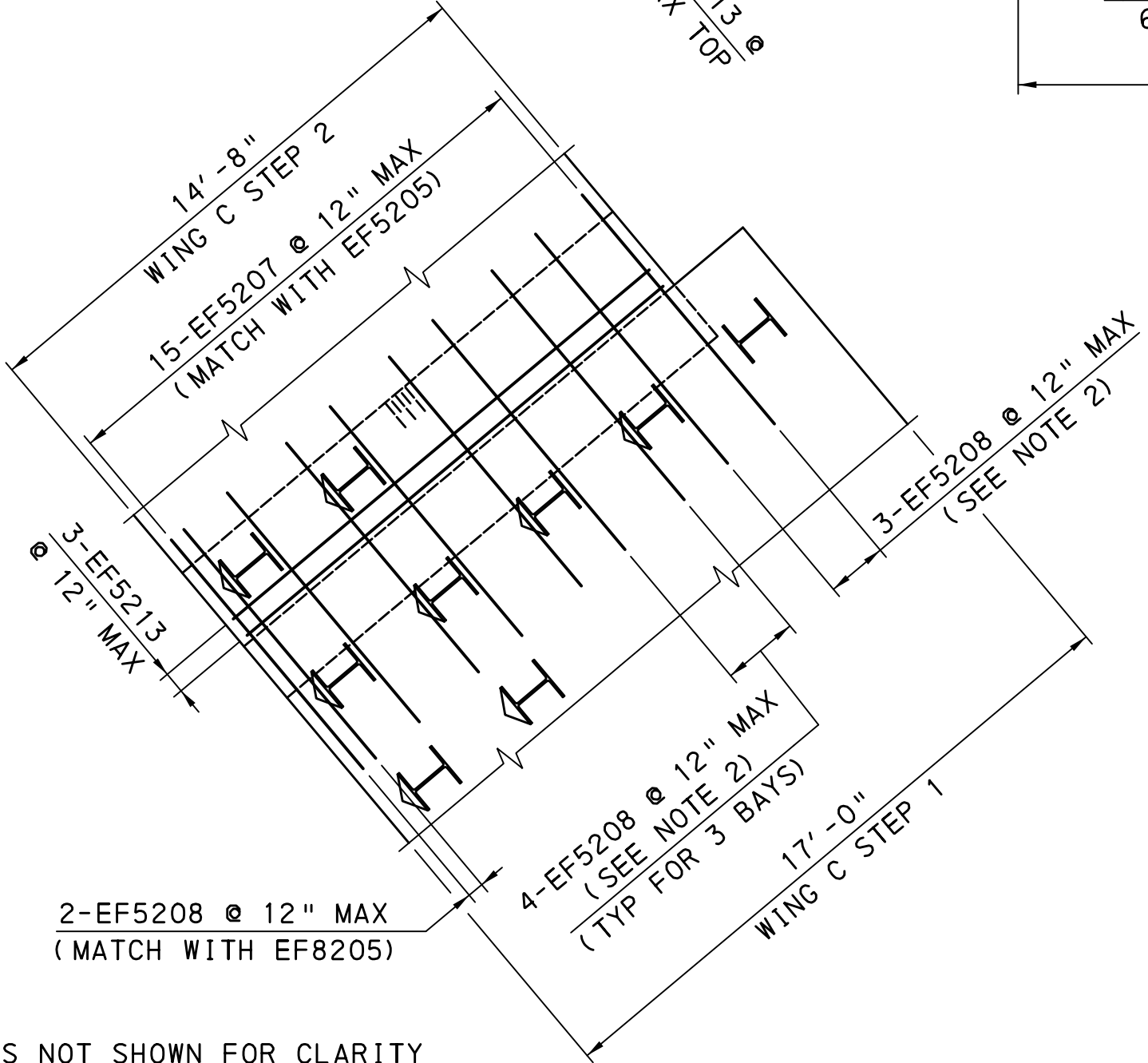
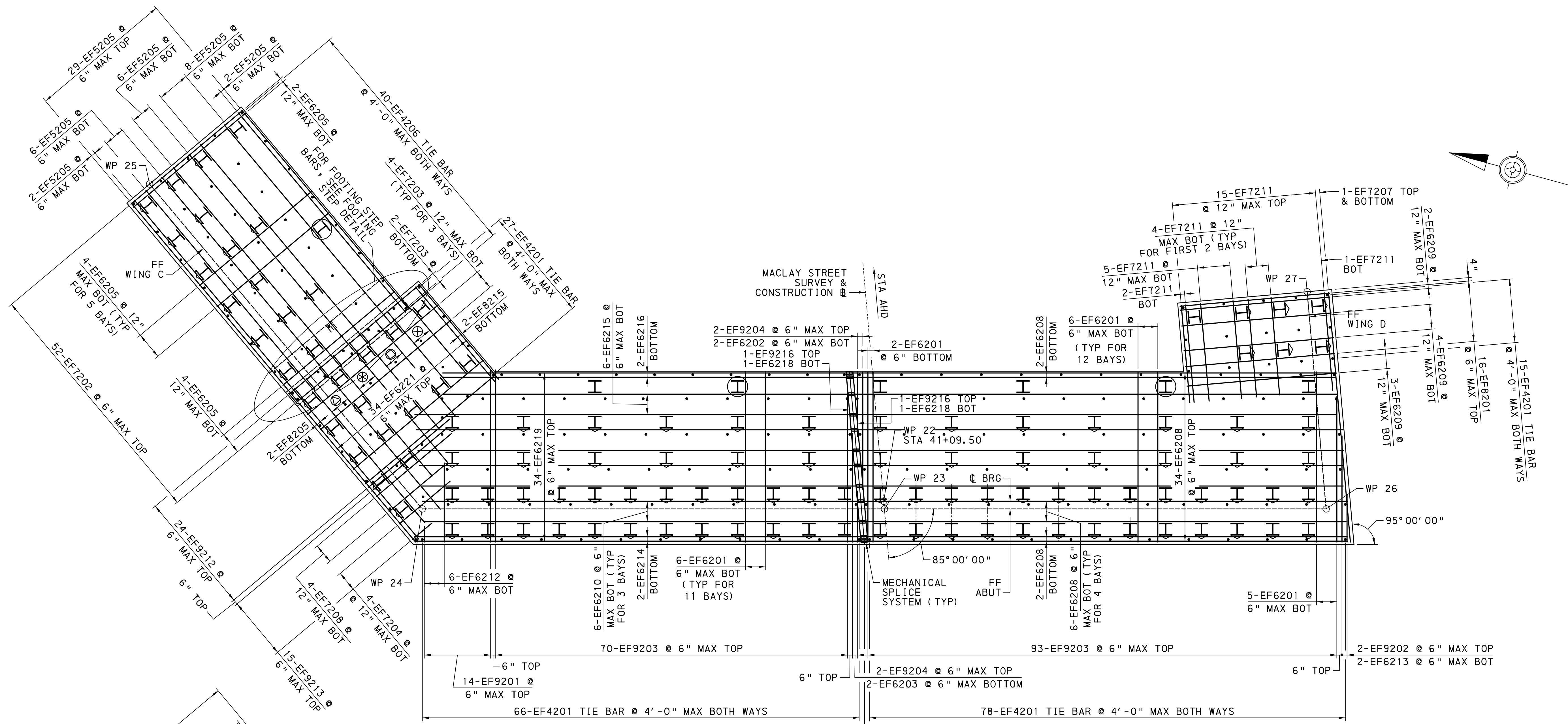
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 FOOTING PILE PLAN



RECOMMENDED 2026.05.15

SHEET 36 OF 97
 S-42336

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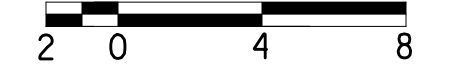


NOTE:
FOOTING BARS NOT SHOWN FOR CLARITY

FOOTING STEP DETAIL



FOOTING REINFORCEMENT PLAN



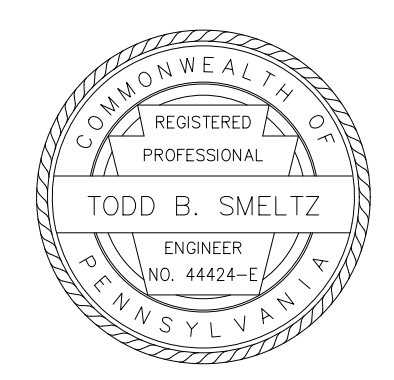
NOTES

- FOR FOOTING DIMENSIONS, SEE SHEET 36.
- MATCH BARS WITH EF8206, EF8207, EF8208 OR EF8215.

LEGEND

- DENOTES HP 14x89 VERTICAL PILE.
- DENOTES HP 14x89 BATTERED PILE.
- DENOTES HP 14x89 TEST PILE.

- ⊗ 4-EF8206 @ 12" MAX BOTTOM
- ⊗ 4-EF8207 @ 12" MAX BOTTOM
- ⊗ 4-EF8208 @ 12" MAX BOTTOM
- ⊗ 4-EF8215 @ 12" MAX BOTTOM



Mark	Description	By	Chk'd.	Recm'd.	Date
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S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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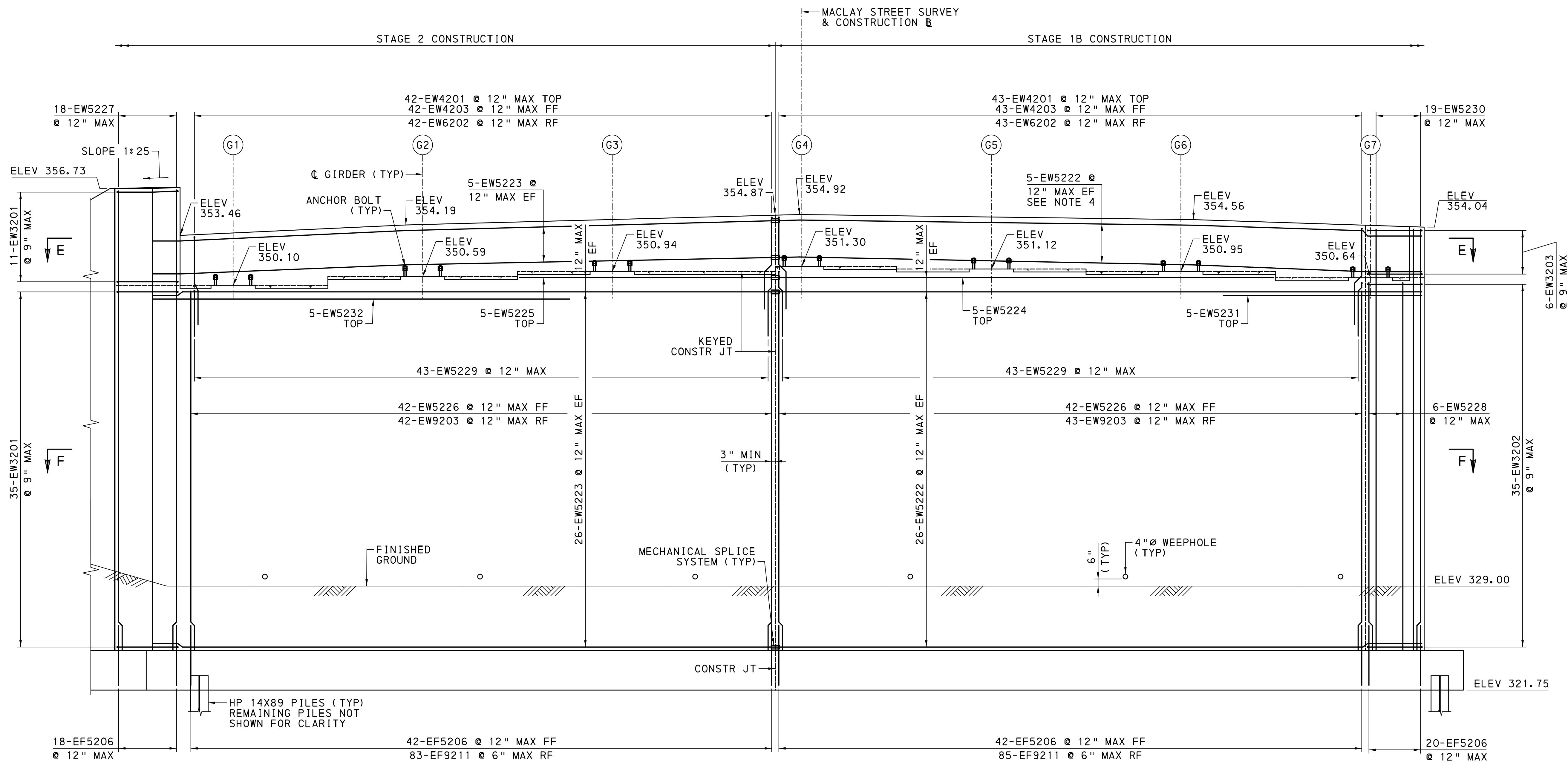
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 ABUTMENT 2 FOOTING REINFORCEMENT PLAN

RECOMMENDED 2026.05.15

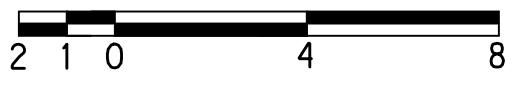
SHEET 37 OF 97

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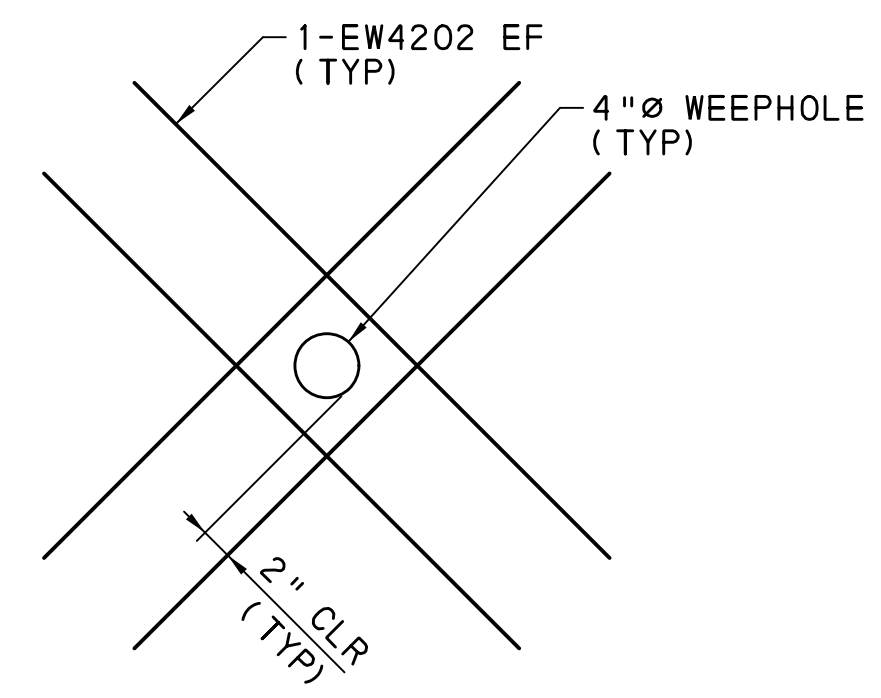


ELEVATION



- NOTES**
- FOR SECTIONS E-E & F-F, SEE SHEET 39.
 - FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
 - FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					



TYPICAL WEEPHOLE DETAIL
NOT TO SCALE

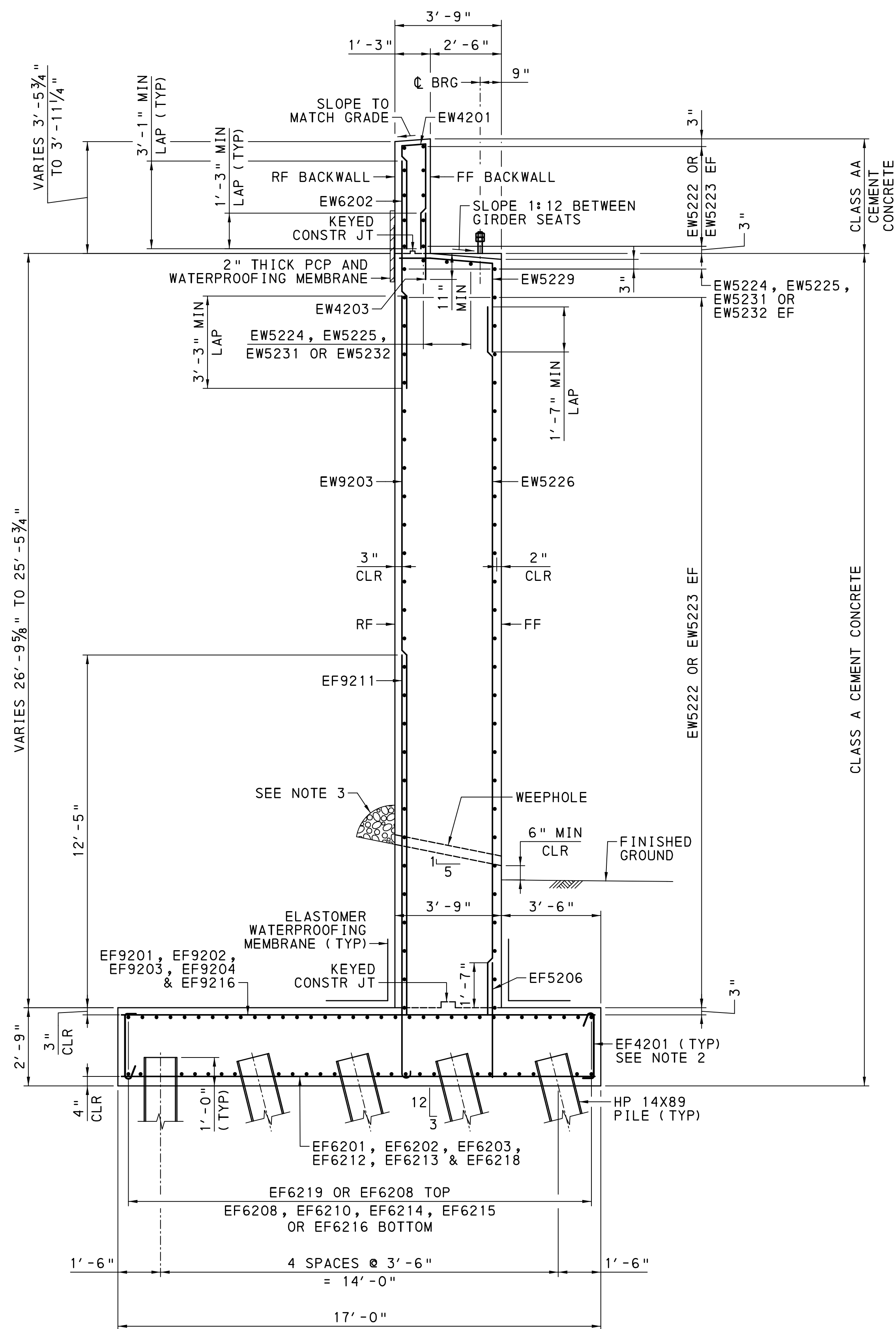


S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 ELEVATION

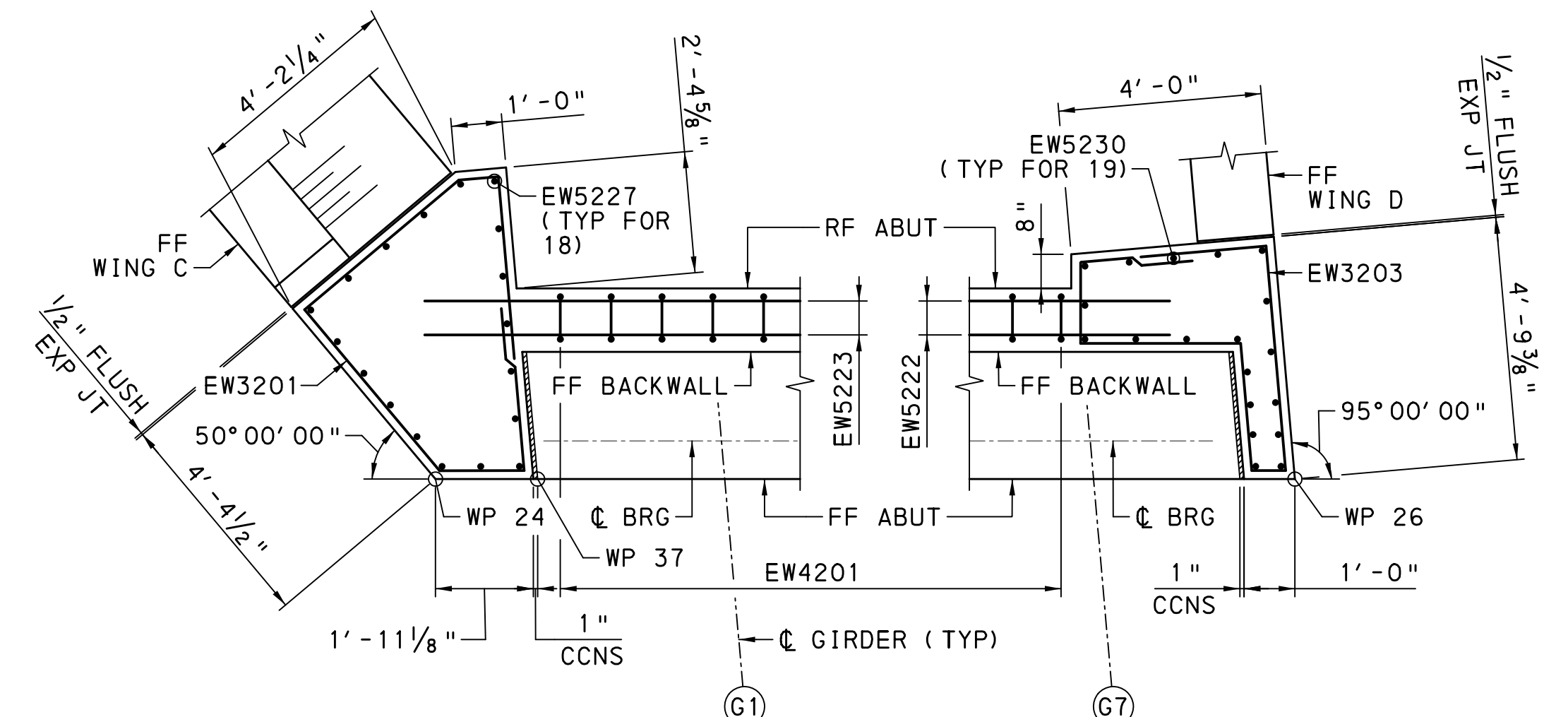
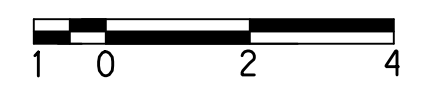
RECOMMENDED 2026.05.15 SHEET 38 OF 97

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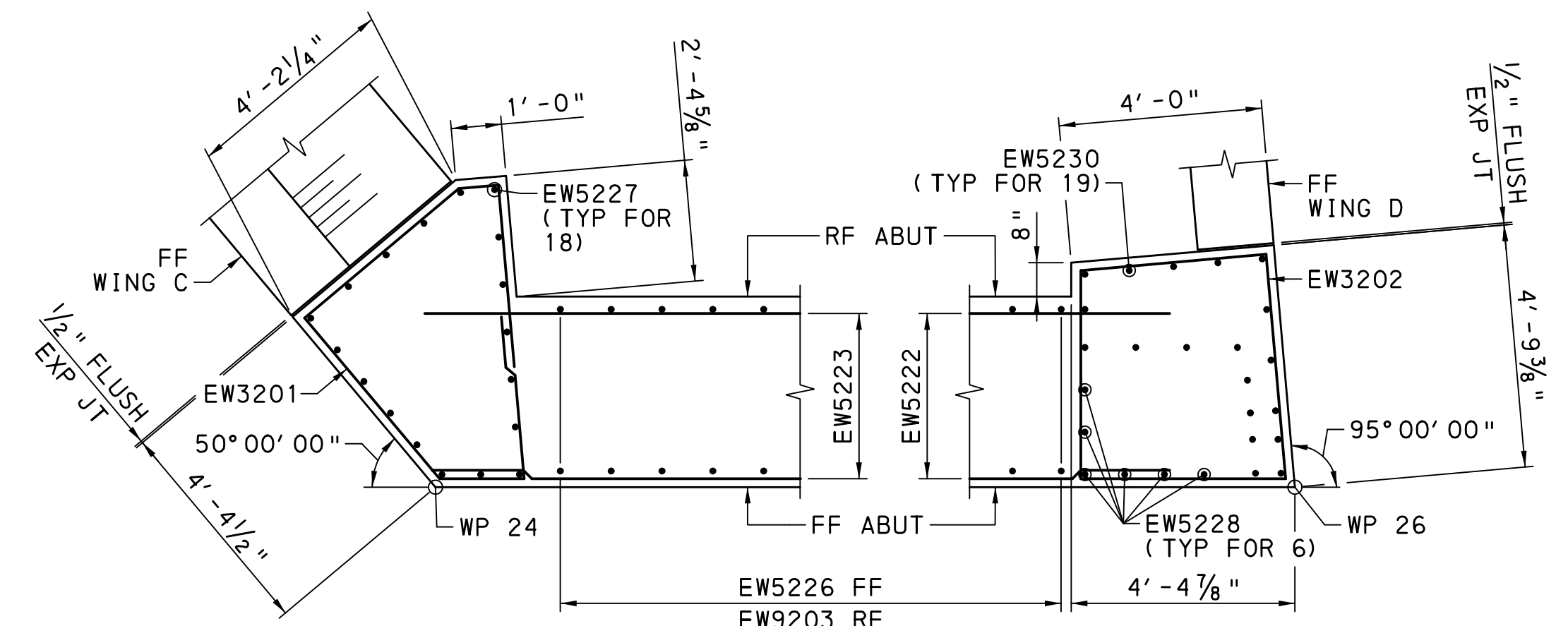
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TYPICAL SECTION



SECTION E-E (SHEET 38)



SECTION F-F (SHEET 38)



NOTES

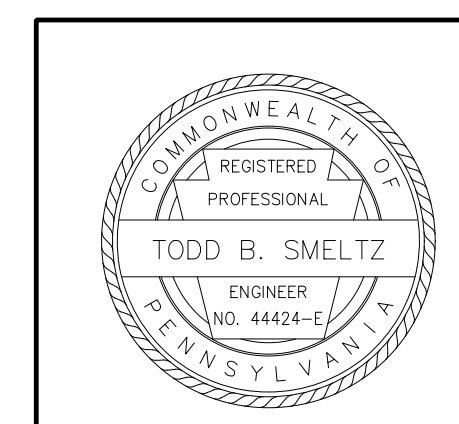
1. SEE FOOTING REINFORCEMENT PLANS FOR PLACEMENT OF FOOTING TOP AND BOTTOM REINFORCEMENT BARS, SHEETS 37.
2. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH TIE BARS AT MAXIMUM SPACING OF 4'-0" IN BOTH DIRECTIONS. PROVIDE TIE BARS WITH 90° HOOK AT ONE END AND 135° HOOK AT THE OTHER END. ALTERNATE 90° AND 135° HOOKS AT TOP IN ALTERNATE TIES.
3. 1/2 CY NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408 SECTION 1001.3(c) & (d). SEE BC-751M FOR ADDITIONAL DETAILS.
4. FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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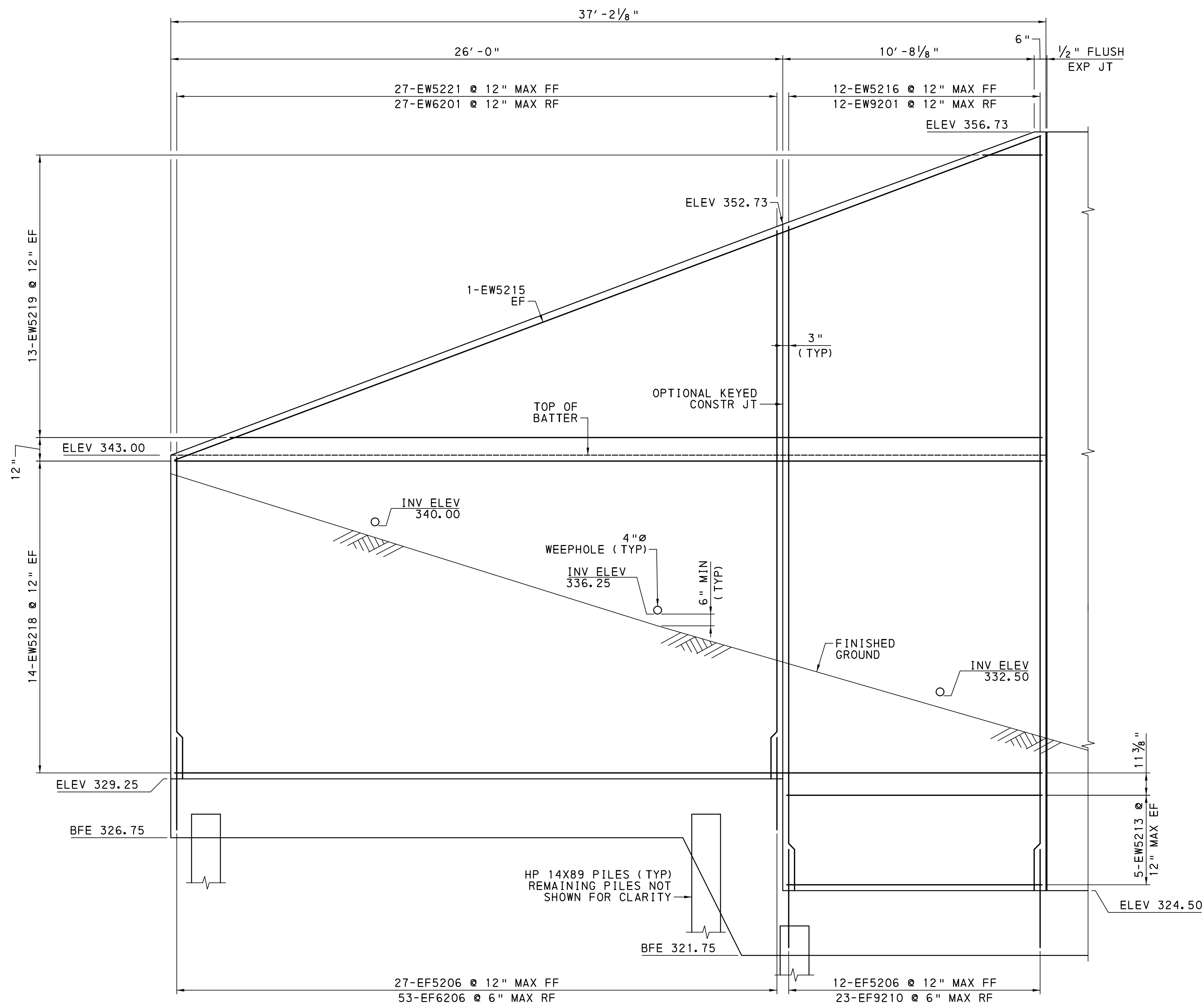
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 ABUTMENT 2 SECTIONS



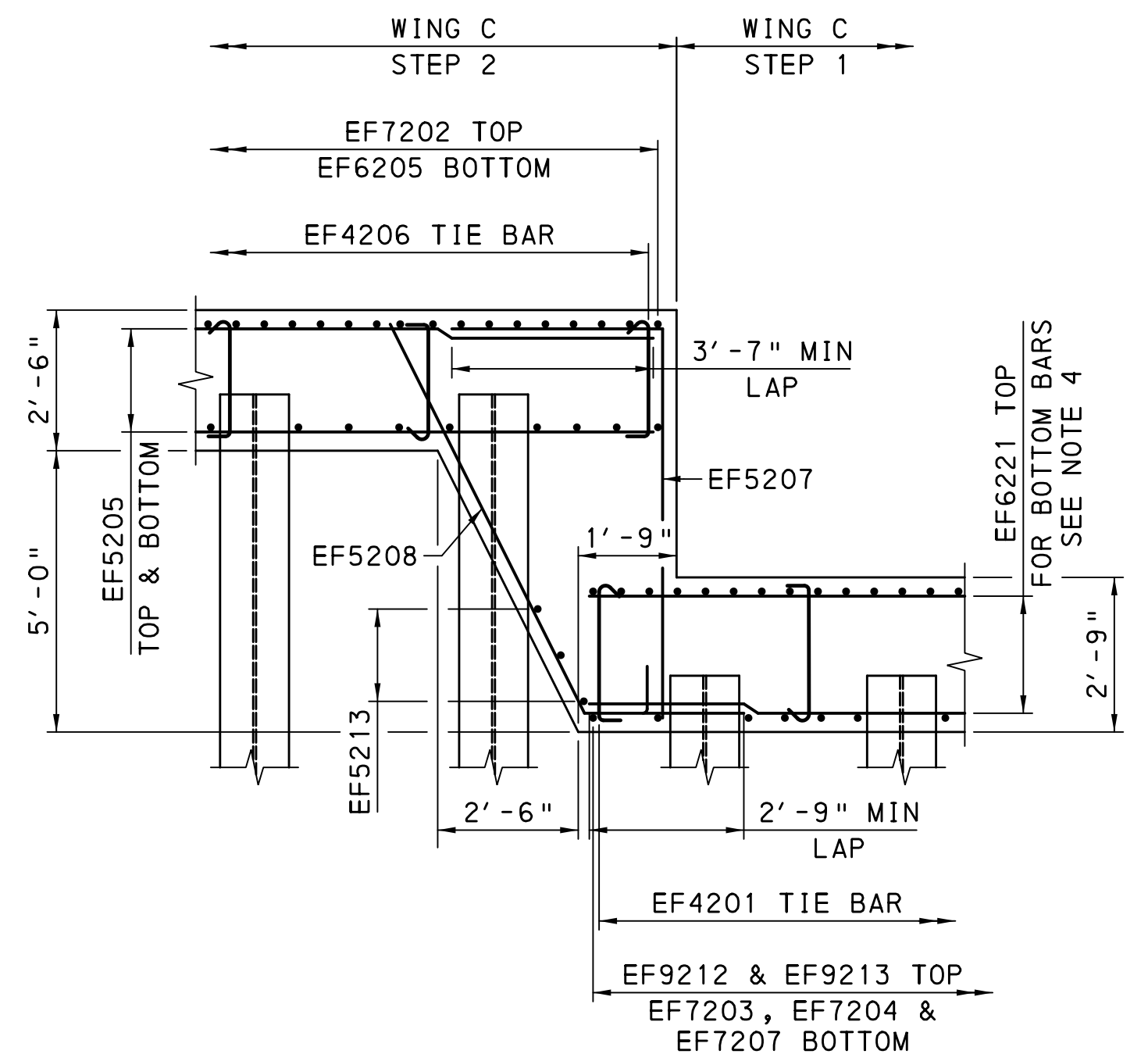
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SHEET 39 OF 97

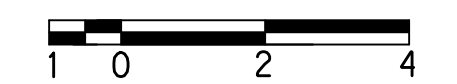
S-42336



WING C ELEVATION



WING C FOOTING STEP



NOTES

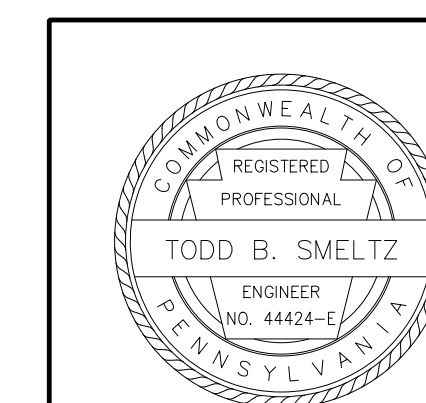
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2. FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR WEEPHOLE REINFORCEMENT DETAILS, SEE SHEET 38.
4. FOR PLACEMENT OF BOTTOM PARALLEL BARS, SEE SHEET 37.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
WING C ELEVATION

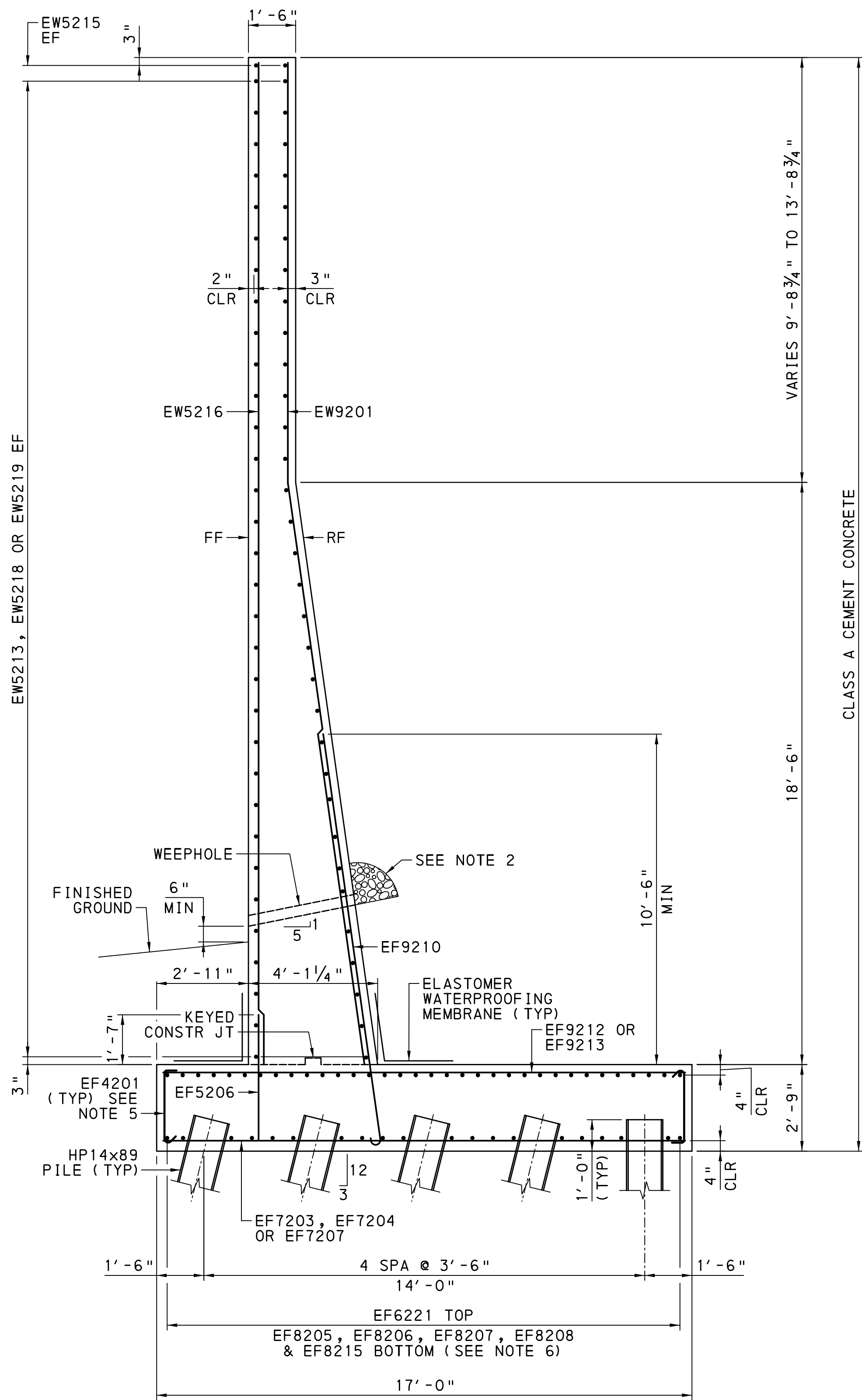


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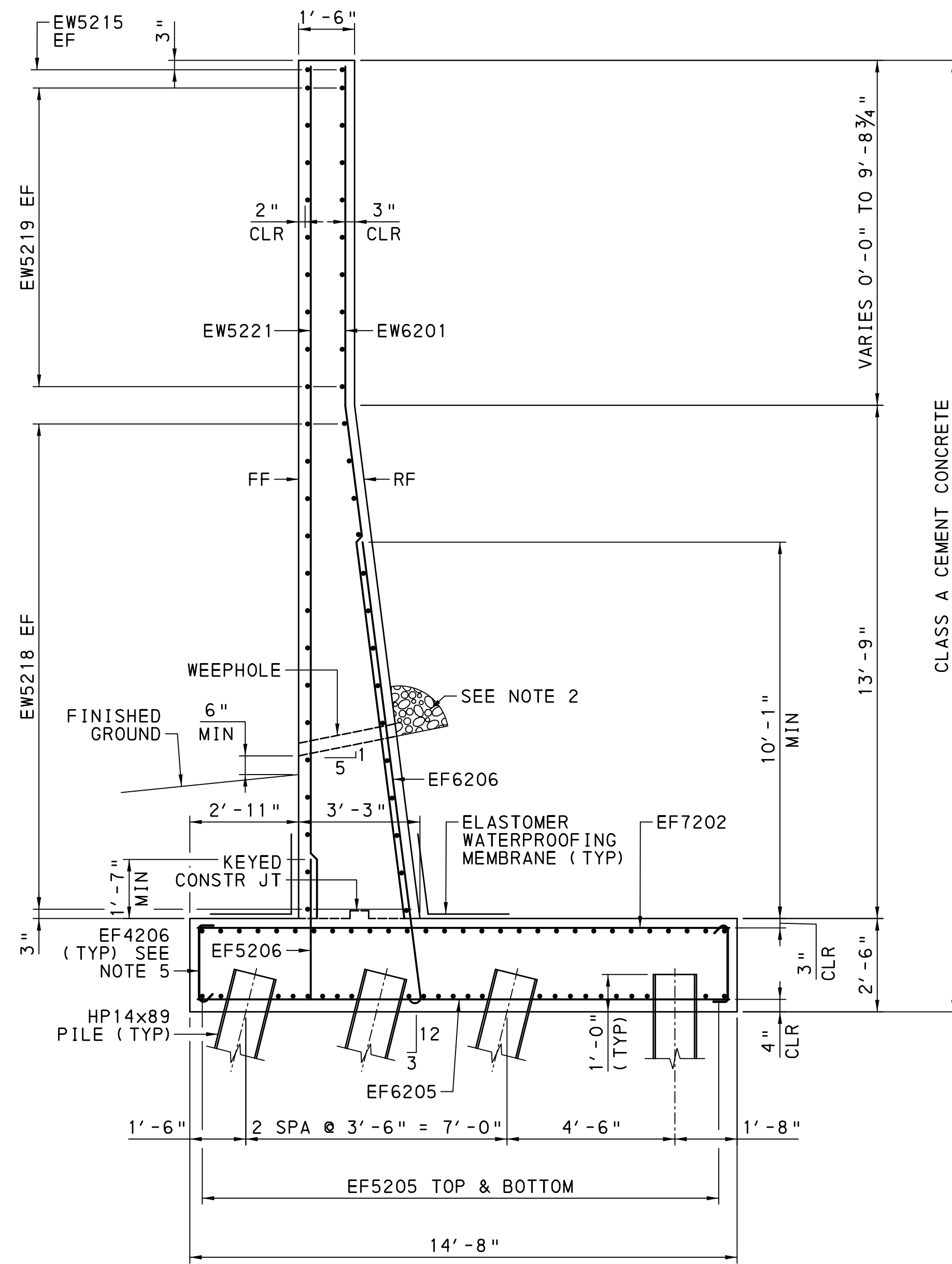
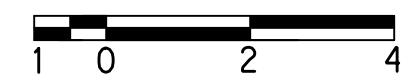
SHEET 40 OF 97

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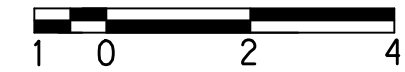
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**WING C (STEP 1)
TYPICAL SECTION**



**WING C (STEP 2)
TYPICAL SECTION**



NOTES

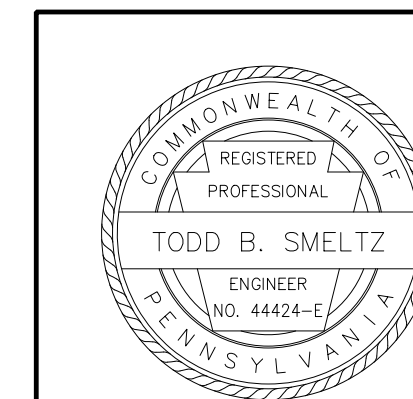
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. 1/2 CY OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408 SECTION 1001.3(c) & (d). FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.
4. FOR WEEPHOLE REINFORCEMENT DETAILS, SEE SHEET 38.
5. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH 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.
6. FOR PLACEMENT OF BOTTOM PARALLEL BARS, SEE SHEET 37.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

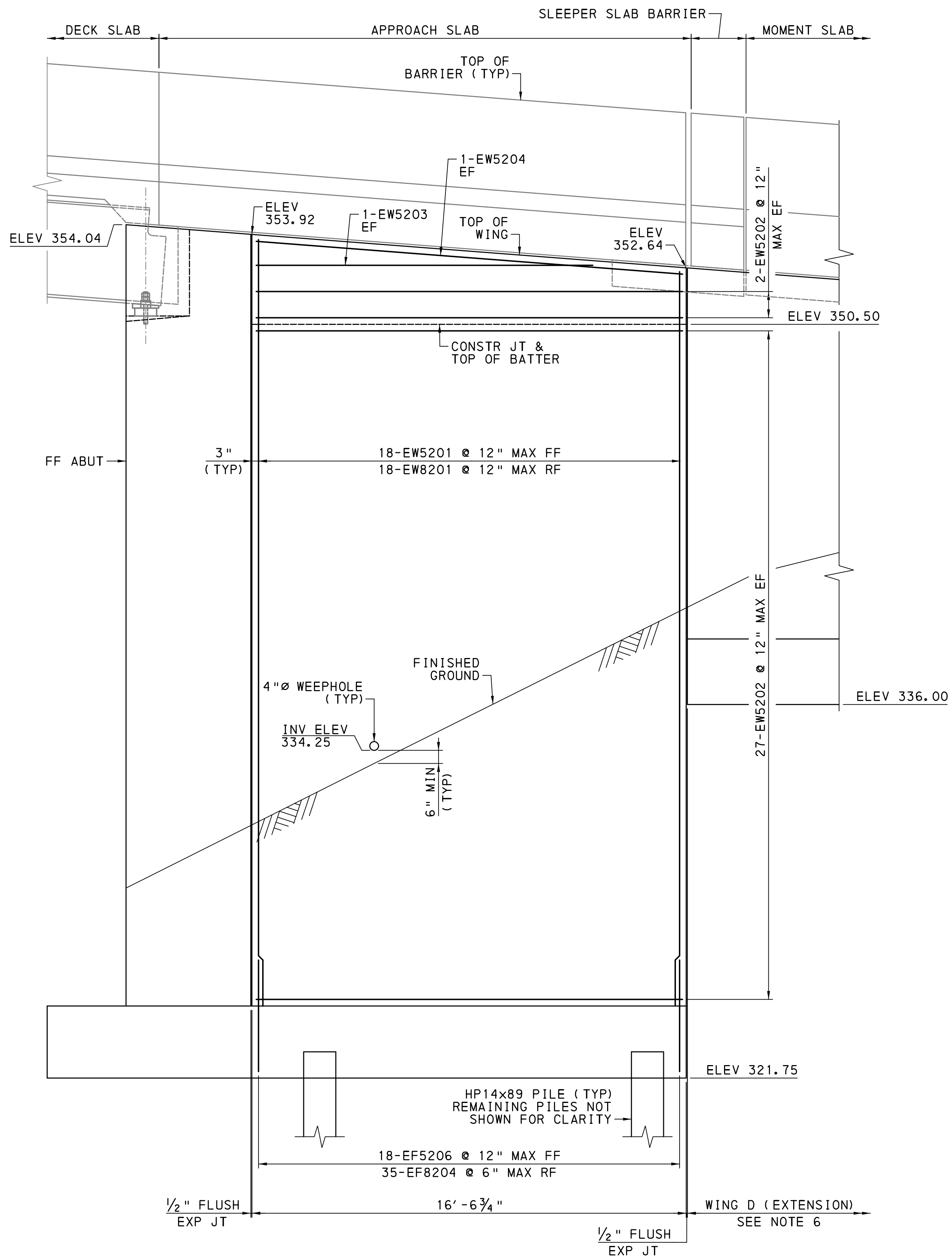
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
WING C SECTIONS



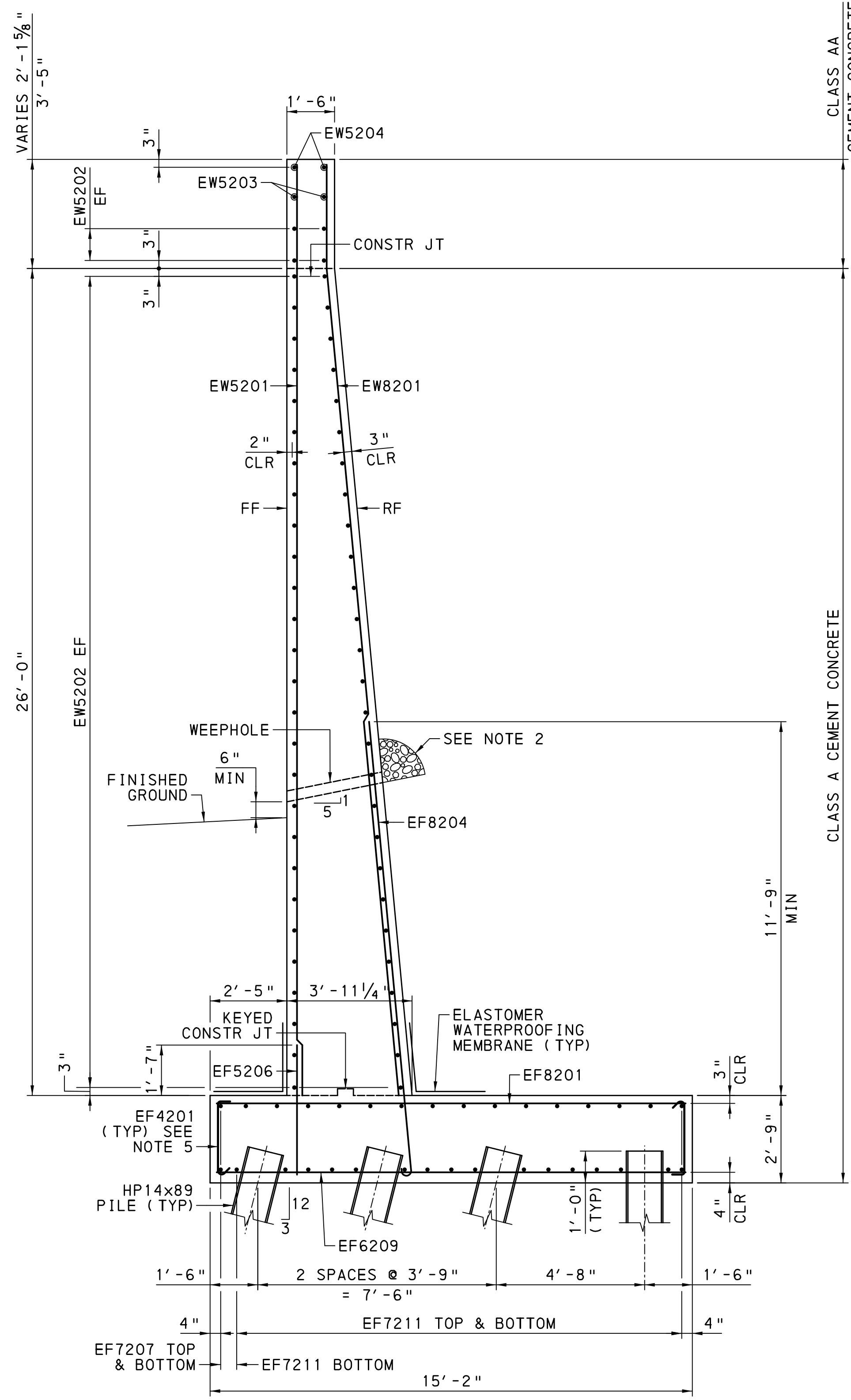
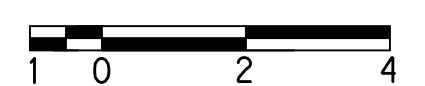
RECOMMENDED 2026.05.15

SHEET 41 OF 97

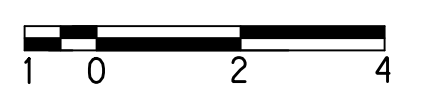
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WING D ELEVATION



WING D TYPICAL SECTION



NOTES

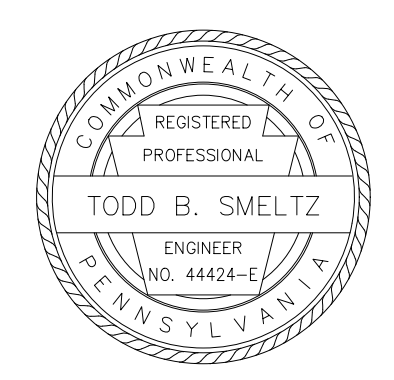
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. 1/2 CY OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408 SECTION 1001.3(c) & (d). FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.
4. FOR WEEPHOLE REINFORCEMENT DETAILS, SEE SHEET 38.
5. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH TIE BARS AT 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.
6. FOR WING D EXTENSION DETAILS SEE SHEETS 43 & 44.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 WING D ELEVATION & SECTION



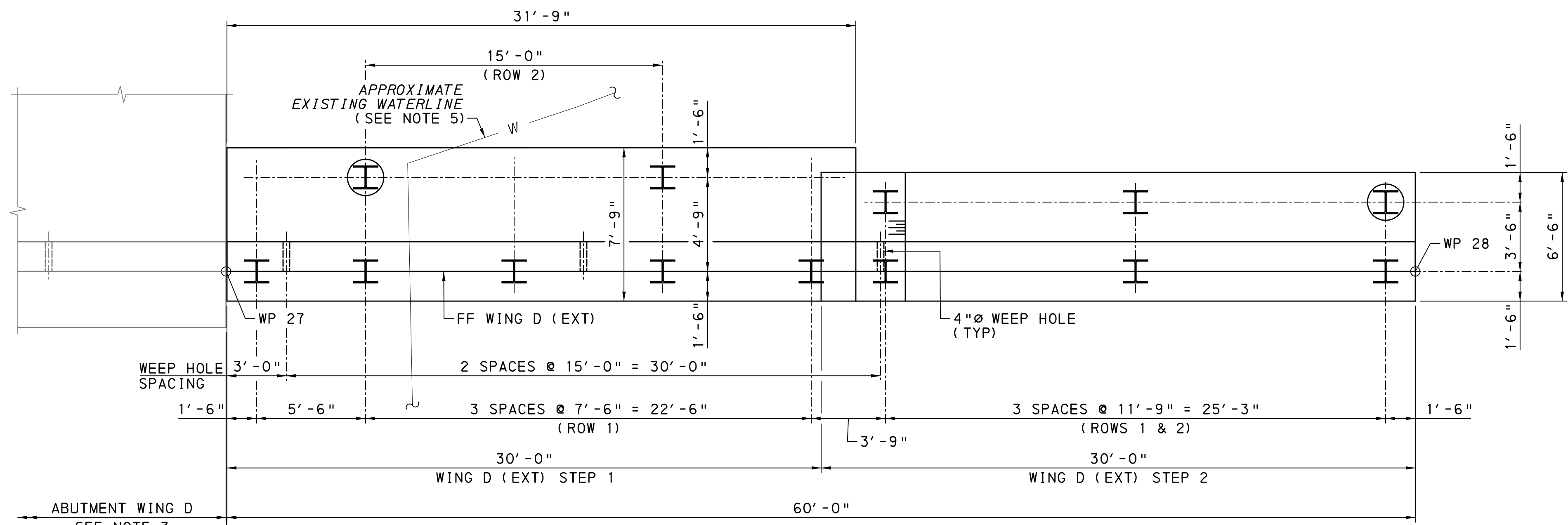
RECOMMENDED 2026.05.15

SHEET 42 OF 97

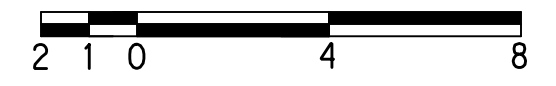
S-42336

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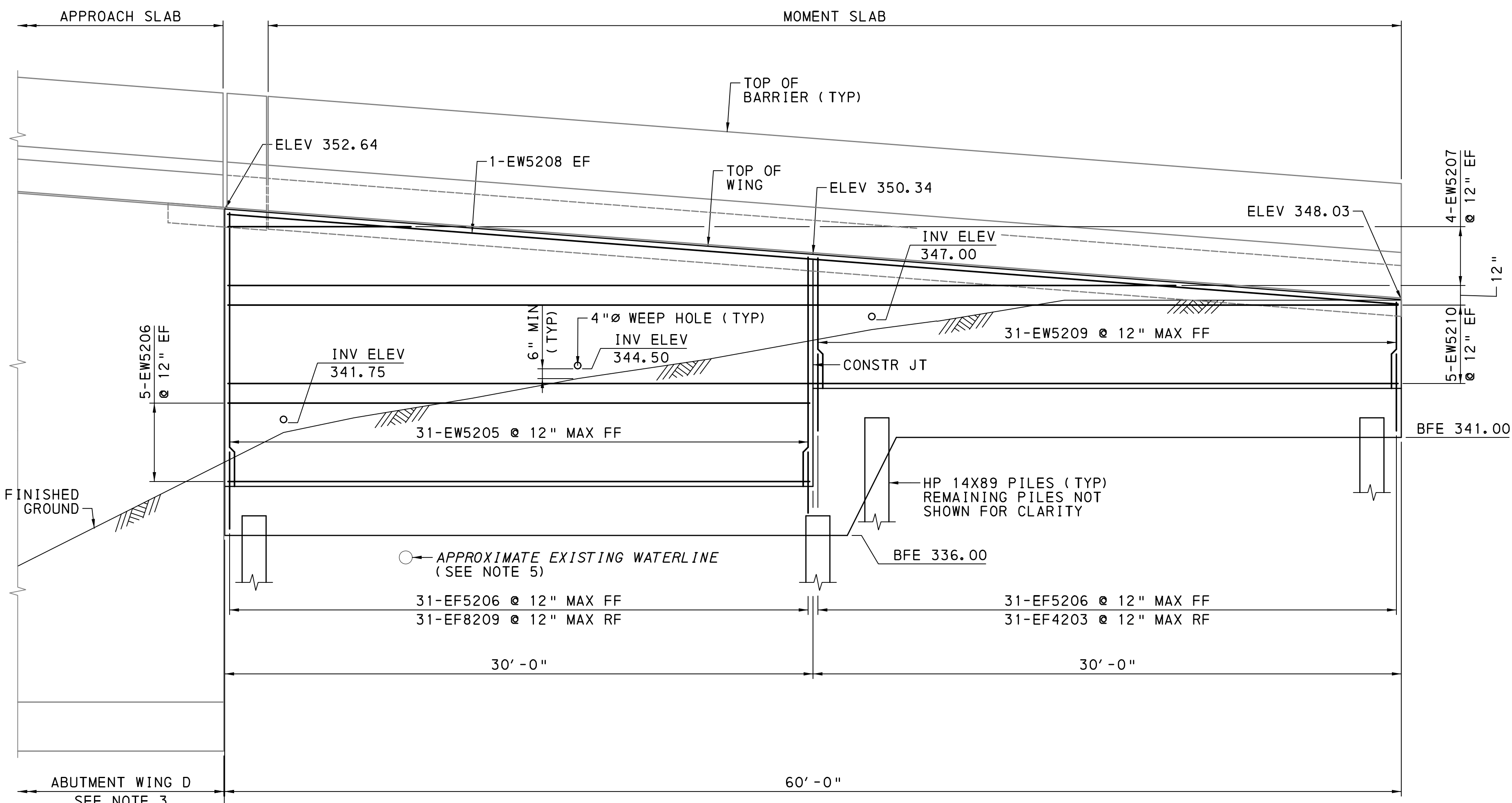
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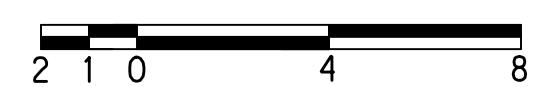
WING D EXTENSION PLAN



FOUNDATION DESIGN PARAMETERS	WING D EXTENSION	
	STEP 1	STEP 2
FACTORED MAXIMUM AXIAL PILE LOAD	158.3 K/PILE	96.8 K/PILE
FACTORED AXIAL PILE RESISTANCE	185.0 KIPS	
CONTROLLING LIMIT STATE	STR-I	STR-I
CONTROLLING MAX/MIN	MAXIMUM	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	FINAL
FACTORED MAXIMUM LATERAL PILE LOAD	9.92 K/FT	3.78 K/FT
FACTORED LATERAL PILE RESISTANCE	15.8 K/FT	13.4 K/FT
CONTROLLING LIMIT STATE	STR-I	STR-I
CONTROLLING MAX/MIN	MAXIMUM	MAXIMUM
CONTROLLING TEMP/FINAL	FINAL	FINAL



WING D EXTENSION ELEVATION



LEGEND

- DENOTES HP 14x89 VERTICAL PILE.
- DENOTES HP 14x89 BATTERED PILE.
- DENOTES HP 14x89 TEST PILE.

NOTES

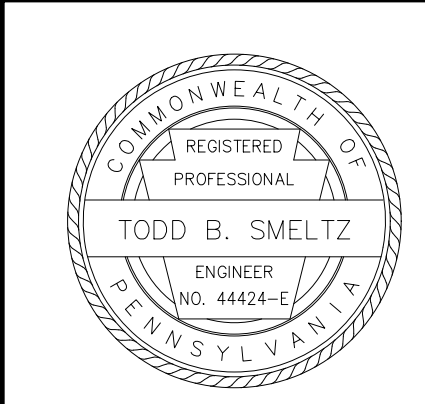
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR WING D DETAILS SEE SHEET 44.
4. FOR WEEPHOLE REINFORCEMENT DETAILS, SEE SHEET 38.
5. CONTRACTOR TO LOCATE WATERLINE PRIOR TO DRIVING PILES.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

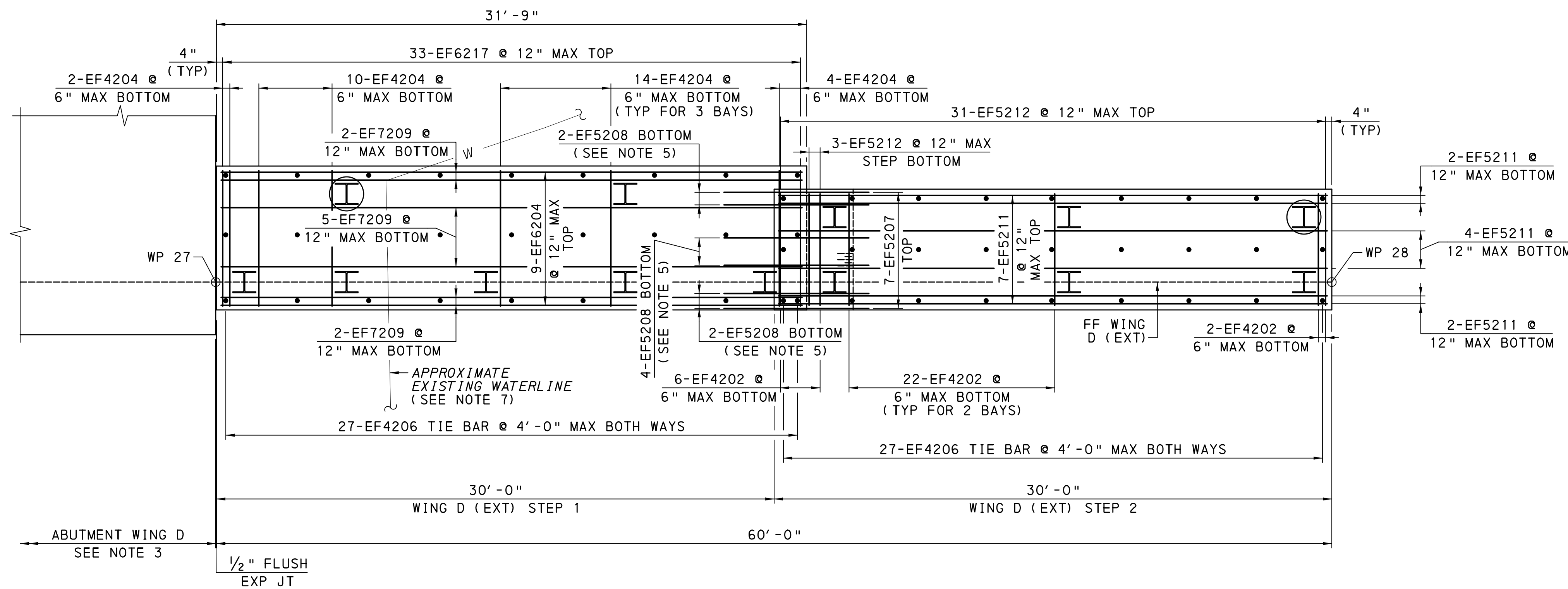
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
WING D (EXTENSION) PLAN & ELEVATION



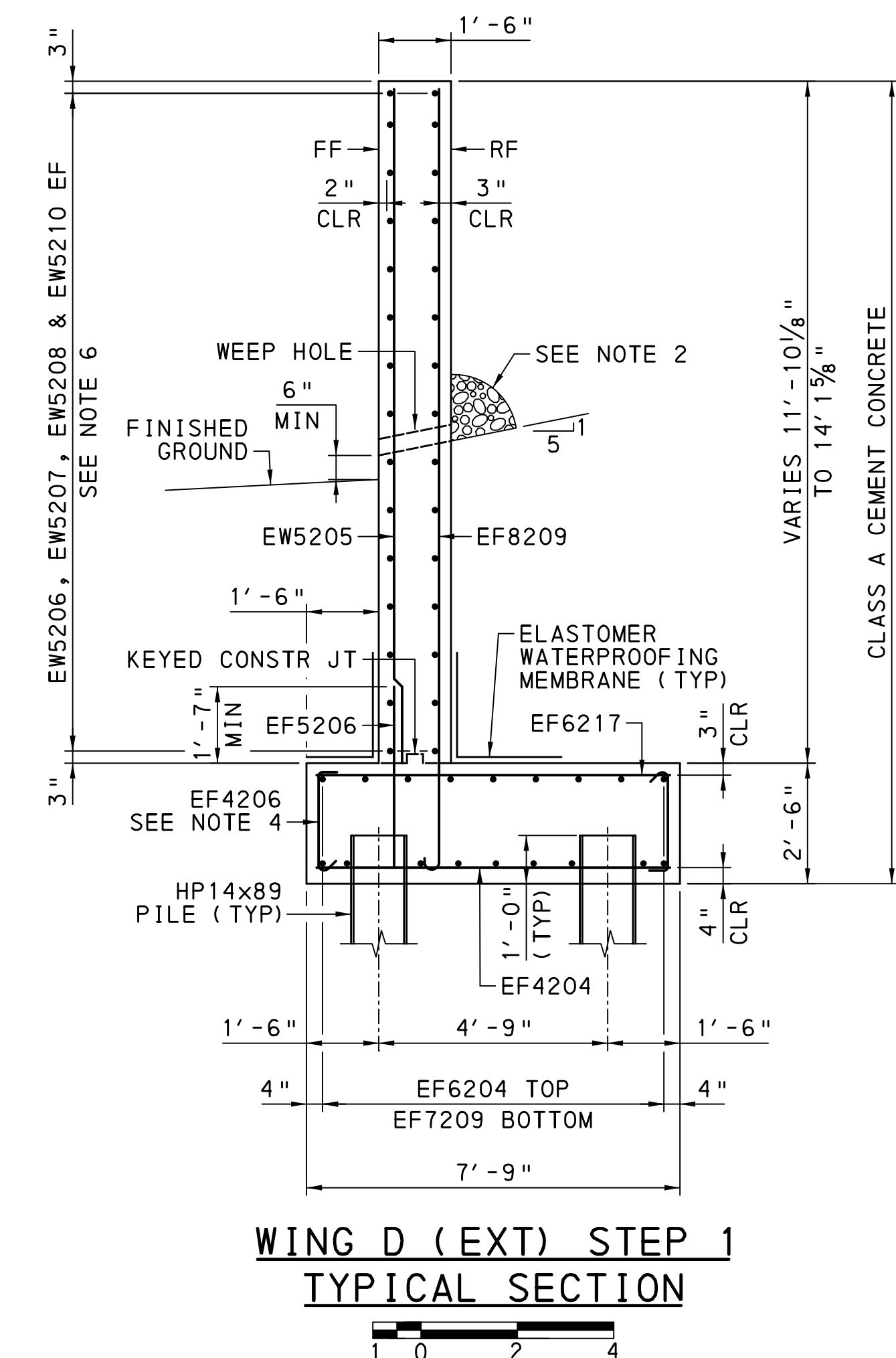
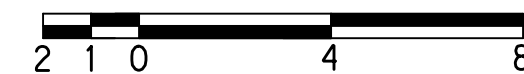
RECOMMENDED 2026.05.15

SHEET 43 OF 97

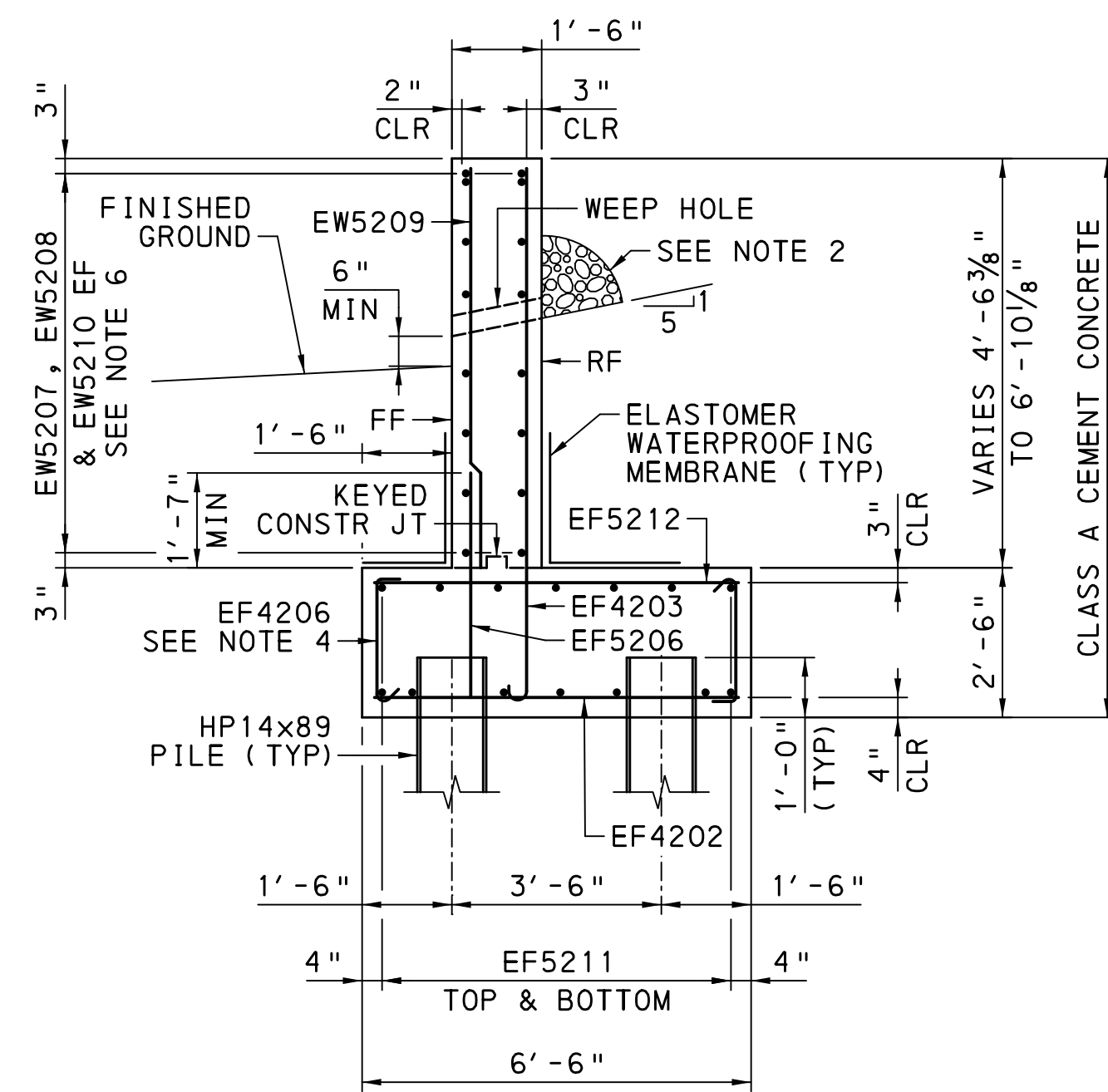
S-42336



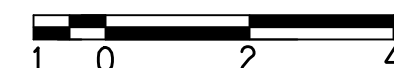
**WING D EXTENSION
FOOTING REINFORCEMENT PLAN**



**WING D (EXT) STEP 1
TYPICAL SECTION**



**WING D (EXT) STEP 2
TYPICAL SECTION**



LEGEND

- DENOTES HP 14x89 VERTICAL PILE.
- DENOTES HP 14x89 BATTERED PILE.
- DENOTES HP 14x89 TEST PILE.

NOTES

1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. 1/2 CY OF NO. 57 COARSE AGGREGATE ENCASED IN GEOTEXTILE, CLASS 1, SEE PUB 408, SECTION 1001.3(c) & (d). FOR ADDITIONAL DRAINAGE DETAILS, SEE BC-751M.
3. FOR STEM TO FOOTING WATERPROOFING DETAILS, SEE BC-788M.
4. TIE TOP AND BOTTOM MATS OF REINFORCING STEEL WITH 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.
5. MATCH BARS WITH WING D EXTENSION STEP 1 BOTTOM LONGITUDINAL REINFORCEMENT.
6. FOR WING D EXTENSION STEM REINFORCEMENT LOCATIONS, SEE SHEET 43.
7. CONTRACTOR TO LOCATE WATERLINE PRIOR TO DRIVING PILES.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

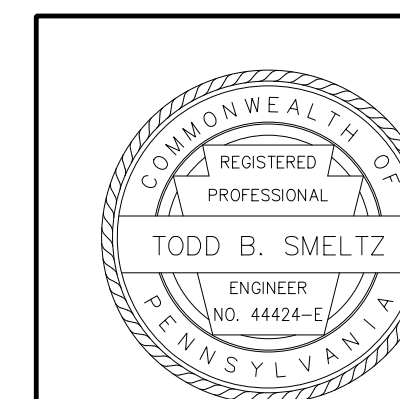
**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION**

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
**4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
WING D (EXTENSION) DETAILS**

RECOMMENDED 2026.05.15

SHEET 44 OF 97

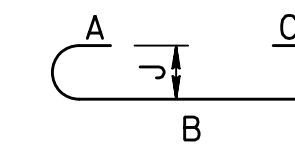
S-42336



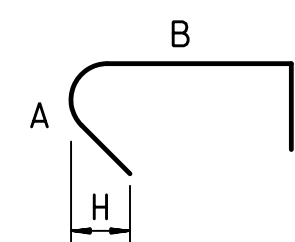
REINFORCEMENT BAR SCHEDULE

ABUTMENT 2

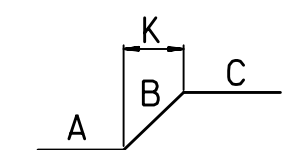
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
FOOTING																	
EF4201	4	2'-11"	186	T9	4 1/2"	2'-2"	4 1/2"					3"					
EF4202	4	6'-0"	52	STR													
EF4203	4	VARIES 7'-0 1/2" TO 9'-3"	31	1	6"	6'-5 3/4" TO 8'-9 7/8"											
EF4204	4	7'-3"	58	STR													
EF4206	4	2'-8"	94	T9	4 1/2"	1'-11"	4 1/2"					3"					
EF5205	5	25'-6"	53	STR													
EF5206	5	4'-0"	241	STR													
EF5207	5	10'-7"	22	17		6'-11"	3'-8"										
EF5208	5	10'-6"	25	12	2'-10"	7'-8"									3'-5"		
EF5211	5	29'-6"	15	STR													
EF5212	5	6'-0"	34	STR													
EF5213	5	14'-2"	3	STR													
EF6201	6	16'-6"	145	STR													
EF6202	6	VARIES 6'-0" TO 11'-8"	2	STR													
EF6203	6	VARIES 5'-0" TO 10'-8"	2	STR													
EF6204	6	31'-3"	9	STR													
EF6205	6	14'-2"	26	STR													
EF6206	6	13'-1"	53	1	8"	12'-5"						6"					
EF6208	6	47'-5"	62	STR													SEE NOTE 4
EF6209	6	14'-8"	9	STR													SEE NOTE 4
EF6210	6	43'-0"	18	STR													SEE NOTE 4
EF6212	6	VARIES 1'-6" TO 7'-9"	6	STR													VARY BY 1'-3" 1 EA
EF6213	6	VARIES 5'-4" TO 11'-0"	2	STR													SEE NOTE 4
EF6214	6	44'-2"	2	STR													SEE NOTE 4
EF6215	6	40'-6"	6	STR													SEE NOTE 4
EF6216	6	36'-0"	2	STR													SEE NOTE 4
EF6217	6	7'-2"	33	STR													
EF6218	6	16'-7"	2	STR													
EF6219	6	VARIES 35'-3" TO 44'-2"	34	STR													VARY BY 3 1/4" 1 EA SEE NOTE 4
EF6221	6	VARIES 10'-11" TO 19'-2"	34	STR													VARY BY 3" 1 EA
EF7202	7	14'-2"	52	STR													
EF7203	7	16'-6"	14	STR													
EF7204	7	VARIES 2'-0" TO 7'-0"	4	STR													VARY BY 1'-8" 1 EA
EF7207	7	24'-7"	2	STR													
EF7208	7	VARIES 7'-10" TO 9'-4"	4	STR													VARY BY 6" 1 EA
EF7209	7	31'-3"	9	STR													
EF7211	7	8'-0"	31	STR													
EF8201	8	14'-8"	16	STR													
EF8204	8	15'-1"	35	1	11"	14'-2"						8"					
EF8205	8	19'-2"	2	STR													
EF8206	8	18'-3"	4	STR													
EF8207	8	15'-3"	4	STR													
EF8208	8	11'-6"	4	STR													
EF8209	8	VARIES 14'-9 1/4" TO 16'-11 1/2"	31	1	11"	13'-10 1/4" TO 16'-0 1/2"						8"					VARY 'B' BY 7/8" 1 EA
EF8215	8	12'-2"	6	STR													
EF9201	9	VARIES 1'-11" TO 16'-0"	14	STR													VARY BY 1'-1" 1 EA
EF9202	9	VARIES 5'-3" TO 10'-9"	2	STR													
EF9203	9	16'-6"	163	STR													
EF9204	9	VARIES 5'-8" TO 11'-4"	4	STR													VARY BY 5'-8" 2 EA
EF9210	9	14'-4"	23	1	1'-3"	13'-1"						11 3/4"					
EF9211	9	16'-1"	168	1	1'-3"	14'-10"						11 3/4"					
EF9212	9	16'-6"	24	STR													
EF9213	9	VARIES 1'-6" TO 15'-6"	15	STR													VARY BY 1'-0" 1 EA
EF9216	9	16'-7"	2	STR													



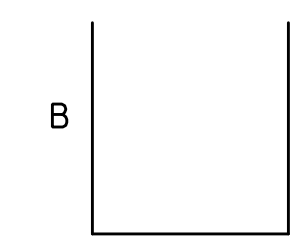
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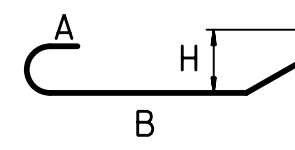
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(12)

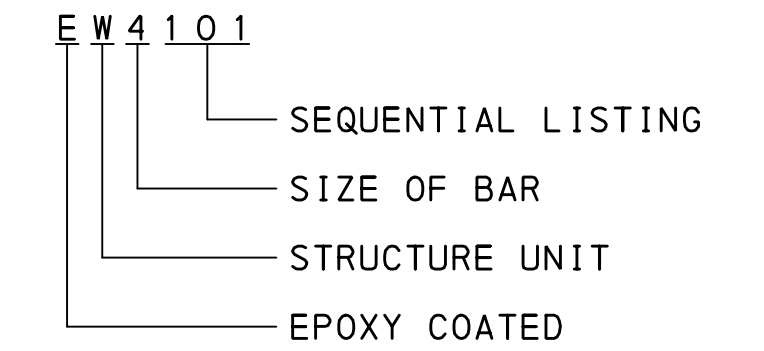


(17)



(21)

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

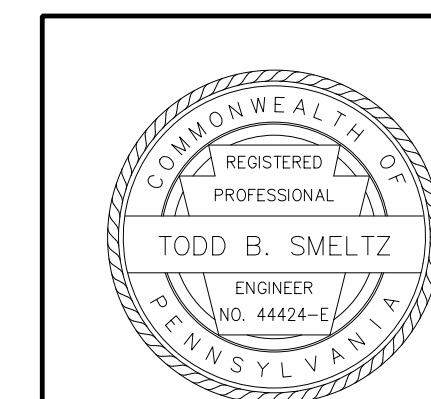
- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 REINFORCEMENT BAR SCHEDULE - 1



RECOMMENDED 2026.05.15

SHEET 45 OF 97

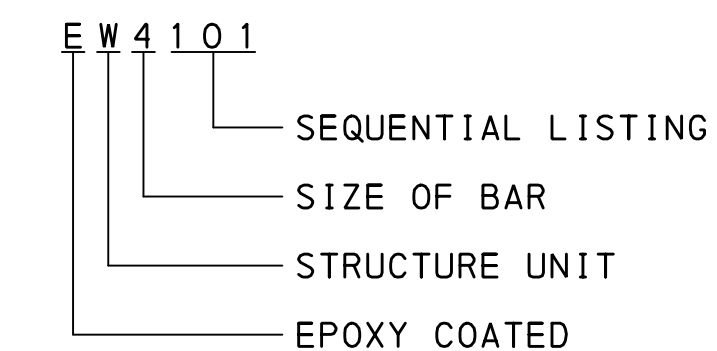
S-42336

REINFORCEMENT BAR SCHEDULE

ABUTMENT 2

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
ABUTMENT 2 STEM																	
EW3201	3	17'-5"	46	STR													BEND IN FIELD
EW3202	3	17'-4"	35	STR													BEND IN FIELD
EW3203	3	16'-7"	6	STR													BEND IN FIELD
EW4201	4	7'-1"	85	7	3'-2"	10"	3'-1"					1 1/4"					
EW4202	4	3'-6"	80	STR													
EW4203	4	3'-0"	85	STR													
EW5201	5	VARIES 27'-10 1/8" TO 29'-1"	18	STR													VARY BY 7/8" 1 EA
EW5202	5	16'-3"	58	STR													
EW5203	5	12'-10"	2	STR													
EW5204	5	16'-3 1/2"	2	STR													
EW5213	5	10'-11"	10	STR													
EW5215	5	39'-3"	2	STR													
EW5216	5	VARIES 28'-0" TO 31'-10 3/4"	12	STR													VARY BY 4 1/4" 1 EA
EW5218	5	36'-11"	28	STR													
EW5219	5	VARIES 3'-0" TO 35'-0"	26	STR													VARY BY 2'-8" 2 EA
EW5221	5	VARIES 13'-4" TO 23'-1"	27	STR													VARY BY 4 1/2" 1 EA
EW5222	5	43'-10"	62	STR													SEE NOTE 4
EW5223	5	43'-0"	62	STR													SEE NOTE 4
EW5224	5	21'-8"	5	STR													SEE NOTE 4
EW5225	5	30'-8"	5	STR													SEE NOTE 4
EW5226	5	24'-11"	84	STR													
EW5227	5	31'-8"	18	STR													
EW5228	5	25'-6"	6	STR													
EW5229	5	6'-4 1/2"	86	19	3'-0"	2'-3 1/2"	1'-1"					2'-3 1/2"			2 1/4"		
EW5230	5	29'-2"	19	STR													
EW5231	5	13'-10"	5	STR													
EW5232	5	29'-1"	5	STR													
EW6201	6	VARIES 13'-10" TO 23'-3 3/4"	27	12		13'-10"	0" TO 9'-5 3/4"										VARY 'B' BY 4 3/8" 1 EA
EW6202	6	7'-10"	85	STR													
EW8201	8	VARIES 28'-1 1/8" TO 29'-4"	18	12		26'-1"	2'-0 1/8" TO 3'-3"								25'-10"		VARY 'B' BY 7/8" 1 EA
EW9201	9	VARIES 28'-2 1/4" TO 32'-0"	12	12		18'-8"	9'-6 1/4" TO 13'-5"								18'-6"		VARY 'B' BY 4 1/4" 1 EA
EW9203	9	25'-1"	85	STR													
WING D EXTENSION																	
EW4202	4	3'-6"	24	STR													
EW5205	5	VARIES 11'-6 1/4" TO 13'-8 1/2"	31	STR													VARY BY 7/8" 1 EA
EW5206	5	29'-8"	10	STR													
EW5207	5	VARIES 9'-4" TO 48'-4"	8	STR													VARY BY 13'-0" 2 EA
EW5208	5	59'-10"	2	STR													
EW5209	5	VARIES 4'-2 1/2" TO 6'-5"	31	STR													VARY BY 1" 1 EA
EW5210	5	59'-8"	10	STR													

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

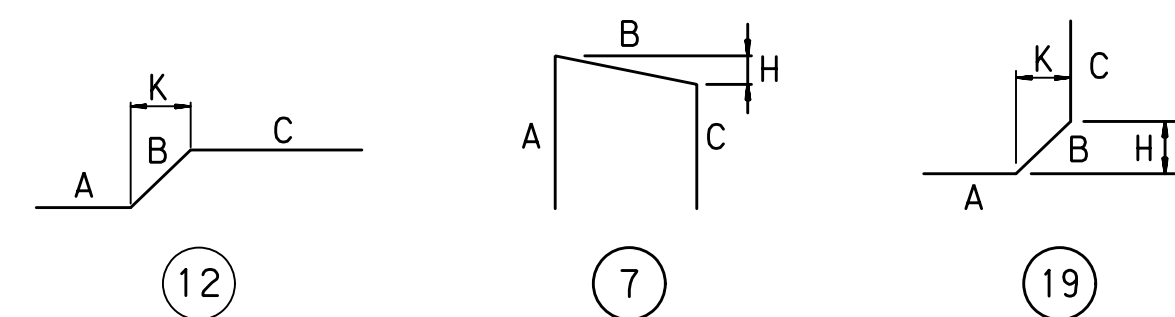
- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

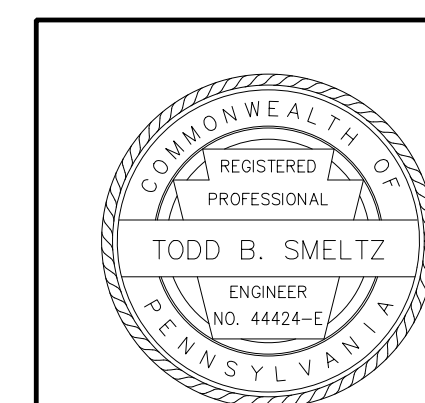


Mark	Description	By	Chk' d.	Recm' d.	Date
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S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

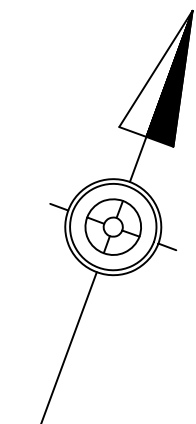
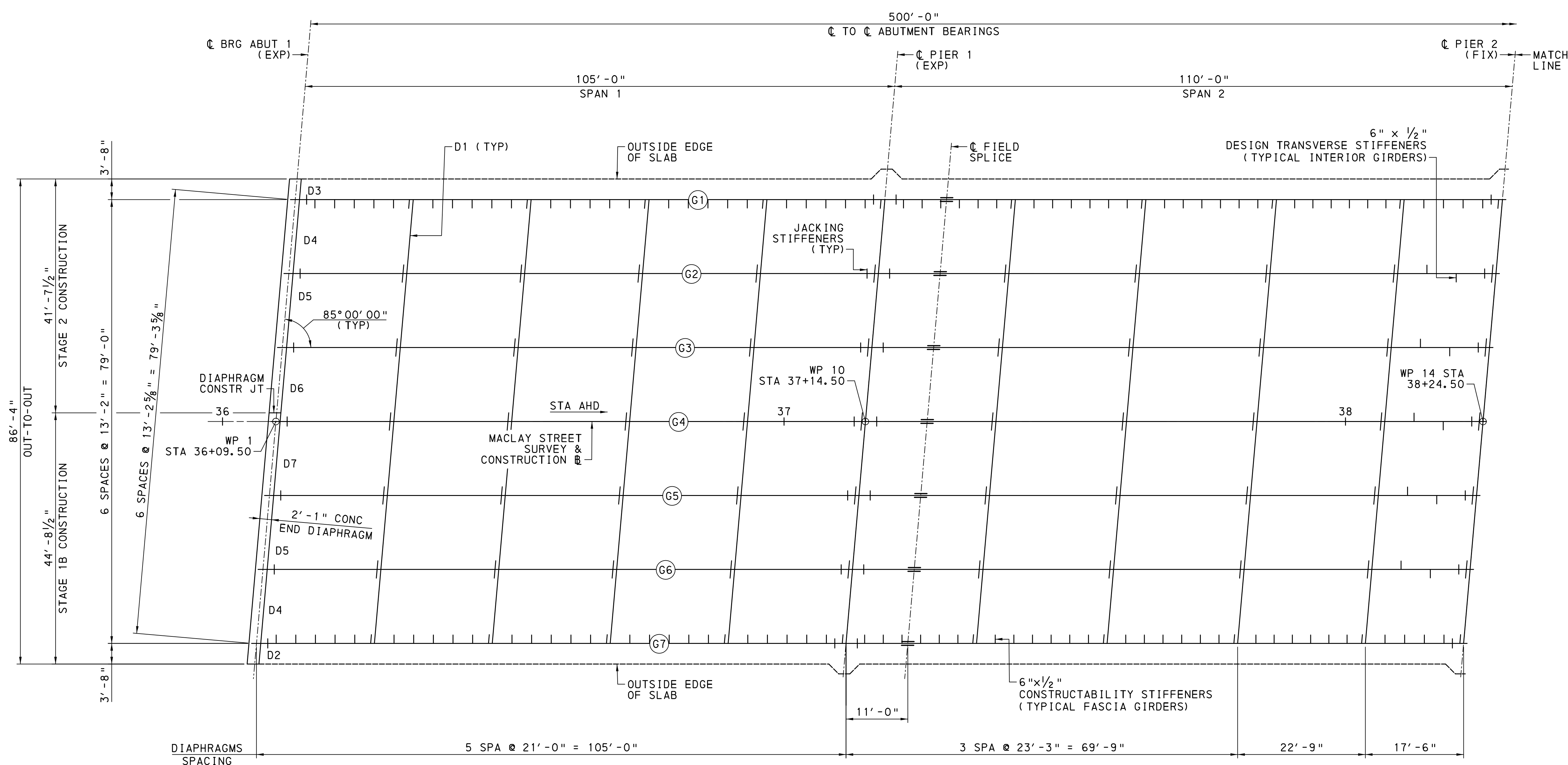
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 REINFORCEMENT BAR SCHEDULE - 2



RECOMMENDED 2026.05.15

SHEET 46 OF 97

S-42336



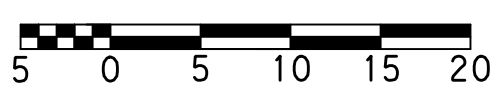
LEGEND

- D1 GALVANIZED STEEL K-FRAME DIAPHRAGM
- D2 RIGHT FASCIA CONCRETE END DIAPHRAGM
- D3 LEFT FASCIA CONCRETE END DIAPHRAGM
- D4 FULL DEPTH CONCRETE END DIAPHRAGM FIRST INTERIOR BAY
- D5 FULL DEPTH CONCRETE DIAPHRAGM
- D6 FULL DEPTH CONCRETE DIAPHRAGM WITH CONSTRUCTION JOINT STAGE 2 SIDE
- D7 FULL DEPTH CONCRETE DIAPHRAGM WITH CONSTRUCTION JOINT STAGE 1B SIDE

NOTES

1. FOR DIAPHRAGM DETAILS, SEE SHEETS 61 AND 62.
2. TORQUE DIAPHRAGM BOLTS BETWEEN GIRDERS 3 & 4 AFTER STAGE 2 DECK CONCRETE HAS BEEN POURED AND PRIOR TO CLOSURE POUR DECK CONCRETE BEING POURED.

FRAMING PLAN



GIRDER REACTION TABLES (KIPS)					
GIRDERS 1 & 7					
	ABUT 1	PIER 1	PIER 2	PIER 3	ABUT 2
NON COMPOSITE DL	95.98	274.58	313.19	423.03	96.94
SIDEWALK DL	16.87	46.85	53.71	69.00	17.06
COMPOSITE DL	29.76	84.61	96.90	124.16	30.00
TOTAL DL	142.61	406.04	463.80	616.19	144.00
PHL-93 POSITIVE + IMPACT W/O SW	108.59	200.48	225.97	238.29	112.14
PHL-93 NEGATIVE + IMPACT W/O SW	-11.80	-34.91	-45.96	-19.05	-14.94
P-82 POSITIVE + IMPACT W/O SW	166.25	218.27	220.87	223.40	172.47
P-82 NEGATIVE + IMPACT W/O SW	-17.11	-41.62	-41.38	-24.29	-20.98
P2016-13 POSITIVE + IMPACT W/O SW	190.67	316.55	334.43	340.90	206.57
P2016-13 NEGATIVE + IMPACT W/O SW	-19.19	-56.79	-50.94	-27.01	-28.58
PEDESTRIAN LL POSITIVE	15.69	43.81	52.48	57.82	17.01
PEDESTRIAN LL NEGATIVE	-2.25	-6.41	-9.5	-2.80	-3.37

GIRDERS 2 & 6					
	ABUT 1	PIER 1	PIER 2	PIER 3	ABUT 2
NON COMPOSITE DL	93.55	266.46	304.15	411.33	94.59
SIDEWALK DL	16.87	46.84	53.76	68.95	17.08
COMPOSITE DL	29.75	84.58	96.99	124.06	30.03
TOTAL DL	140.17	397.88	454.90	604.34	141.70
PHL-93 POSITIVE + IMPACT W/O SW	133.67	250.93	282.8	298.13	137.91
PHL-93 NEGATIVE + IMPACT W/O SW	-14.56	-43.83	-57.74	-23.91	-18.41
P-82 POSITIVE + IMPACT W/O SW	204.61	273.12	273.30	279.47	212.10
P-82 NEGATIVE + IMPACT W/O SW	-21.11	-52.27	-51.94	-30.50	-25.85
P2016-13 POSITIVE + IMPACT W/O SW	234.64	396.14	418.46	426.48	254.01
P2016-13 NEGATIVE + IMPACT W/O SW	-23.67	-71.3	-63.93	-33.90	-35.20
PEDESTRIAN LL POSITIVE	15.69	43.85	52.52	57.85	17.01
PEDESTRIAN LL NEGATIVE	-2.25	-6.44	-9.54	-2.81	-3.37

GIRDERS 3, 4 & 5					
	ABUT 1	PIER 1	PIER 2	PIER 3	ABUT 2
NON COMPOSITE DL	93.55	266.46	304.15	411.33	94.59
COMPOSITE DL	14.75	40.97	47.02	60.31	14.94
TOTAL DL	108.30	307.43	351.17	471.64	109.53
PHL-93 POSITIVE + IMPACT W/O SW	133.67	250.93	282.80	298.13	137.91
PHL-93 NEGATIVE + IMPACT W/O SW	-14.56	-43.83	-57.74	-23.91	-18.41
P-82 POSITIVE + IMPACT W/O SW	204.61	273.12	276.30	279.47	212.10
P-82 NEGATIVE + IMPACT W/O SW	-21.11	-52.27	-51.94	-30.50	-25.85
P2016-13 POSITIVE + IMPACT W/O SW	234.64	396.14	418.46	426.48	254.01
P2016-13 NEGATIVE + IMPACT W/O SW	-23.67	-71.30	-63.93	-33.90	-35.20

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

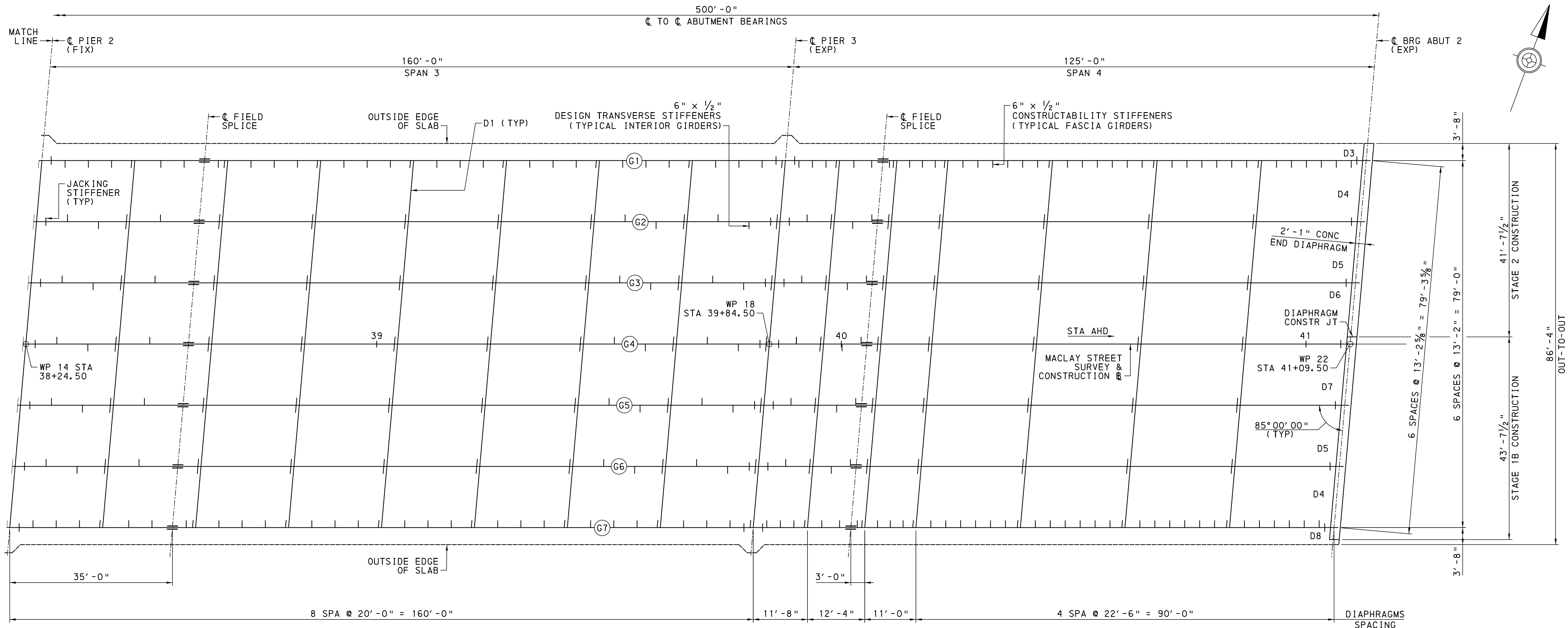
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
FRAMING PLAN - 1

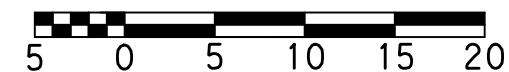


RECOMMENDED	2026.05.15	SHEET 47 OF 97
		S-42336

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 DATE: 5/14/2026 TIME: 1:36:00 PM
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FRAMING PLAN



LEGEND

- D1 GALVANIZED STEEL K-FRAME DIAPHRAGM
- D3 LEFT FASCIA CONCRETE END DIAPHRAGM
- D4 FULL DEPTH CONCRETE END DIAPHRAGM
- D5 FULL DEPTH CONCRETE DIAPHRAGM
- D6 FULL DEPTH CONCRETE DIAPHRAGM WITH CONSTRUCTION JOINT STAGE 2 SIDE
- D7 FULL DEPTH CONCRETE DIAPHRAGM WITH CONSTRUCTION JOINT STAGE 1B SIDE
- D8 RIGHT FASCIA CONCRETE END DIAPHRAGM

NOTES

1. FOR SECTION A-A, SEE SHEET 51.
2. TORQUE DIAPHRAGM BOLTS BETWEEN GIRDERS 3 & 4 AFTER STAGE 2 DECK CONCRETE HAS BEEN POURED AND PRIOR TO CLOSURE POUR DECK CONCRETE BEING POURED.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
FRAMING PLAN - 2

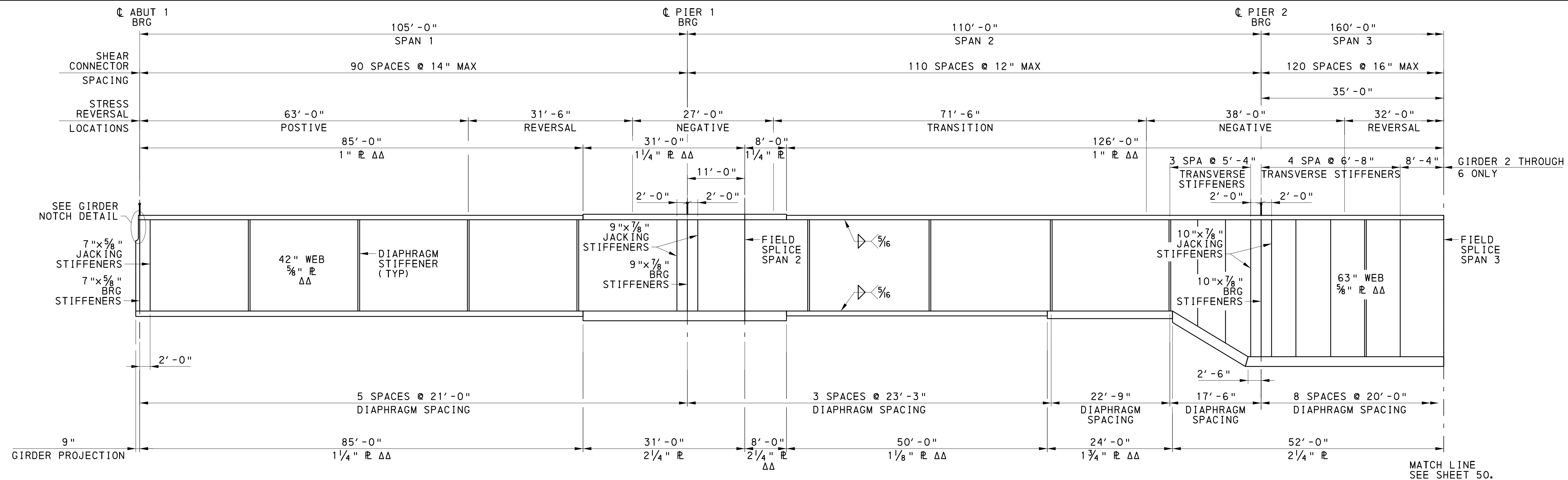


RECOMMENDED 2026.05.15

SHEET 48 OF 97

S-42336

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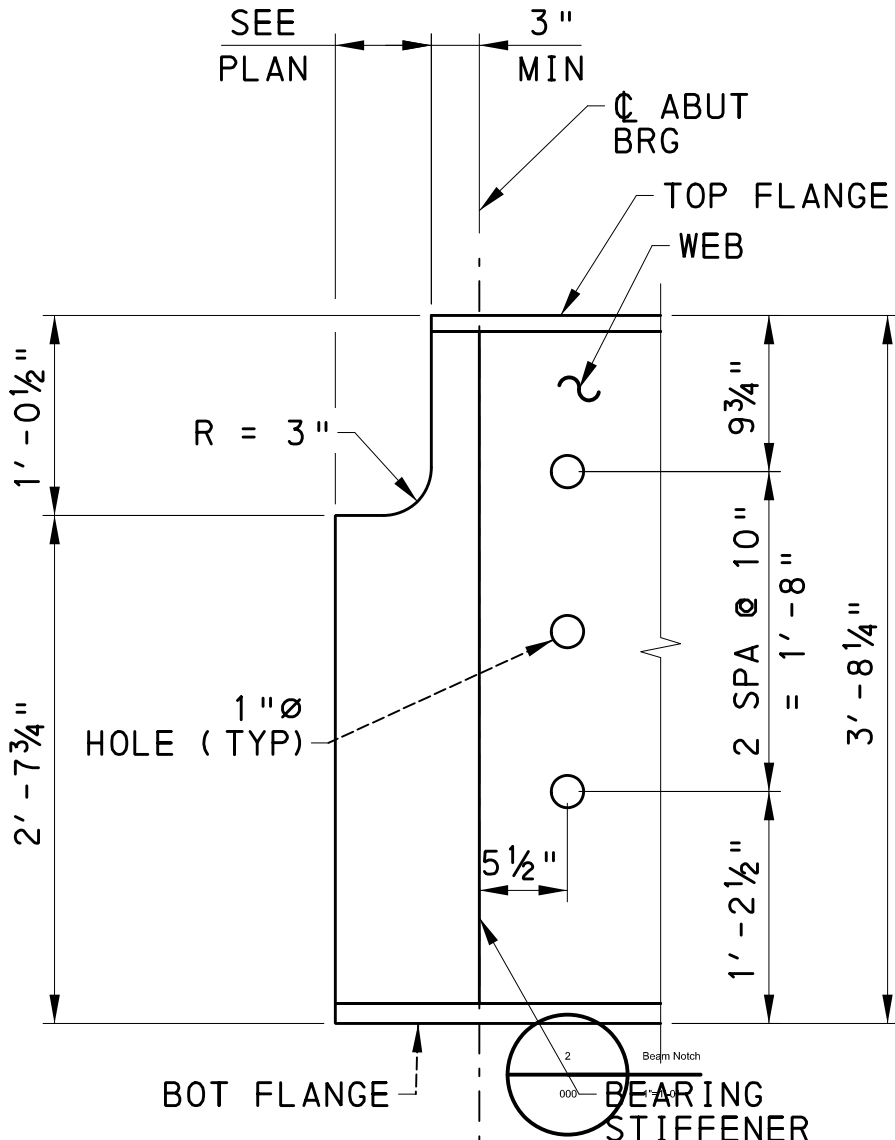


GIRDER ELEVATION - 1
NOT TO SCALE

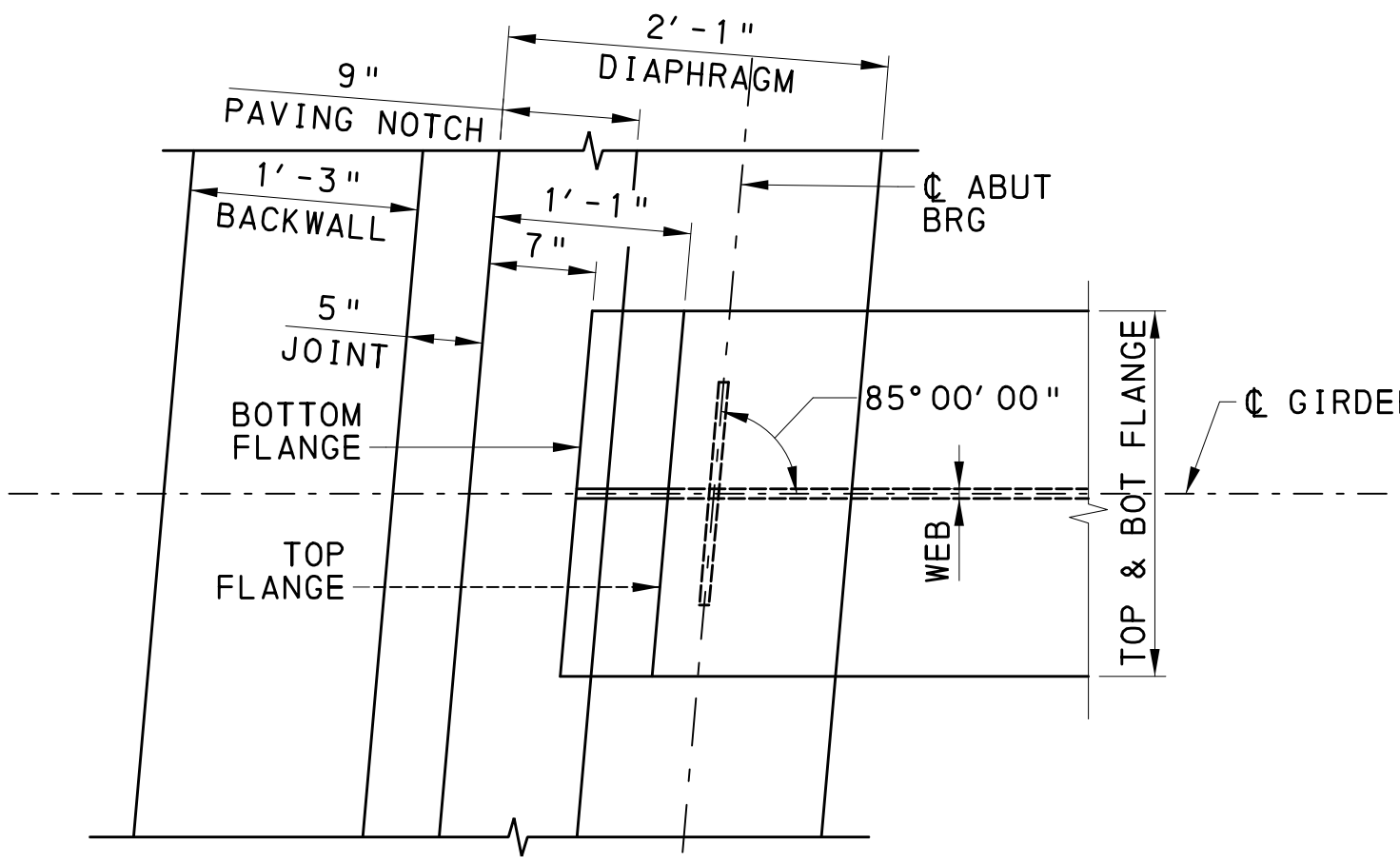
STRUCTURAL STEEL GIRDER DIMENSIONS DO NOT ACCOUNT FOR METALIZING. GIRDER FLANGES, BEARING STIFFENERS, JACKING STIFFENERS, DESIGN STIFFENERS, CONSTRUCTION STIFFENERS, WEB PLATES AND SPLICE PLATES ARE TO BE METALLIZED. PLATE WIDTHS ARE TO BE OVERSIZED BY 1/8" TO ACCOUNT FOR EDGE GRINDING.

NOTES:

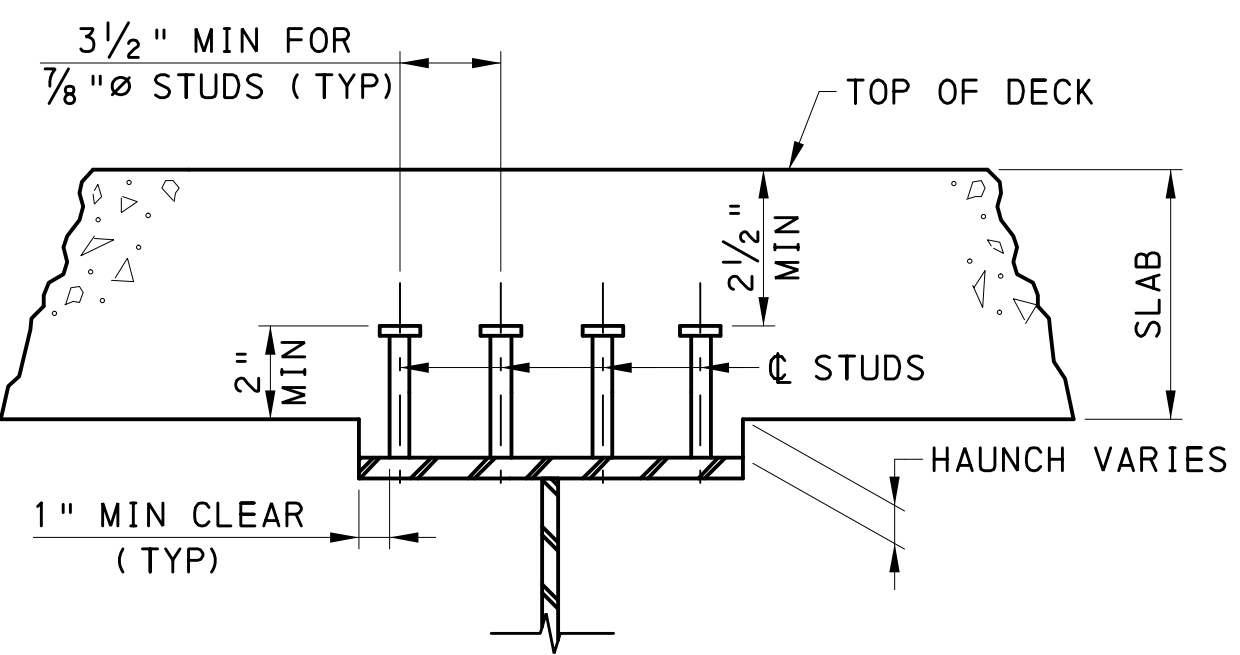
1. SHEAR CONNECTOR SPACING SHOWN CONSISTS OF 4 STUDS PER ROW.
2. CONSTRUCTABILITY STIFFENERS NOT SHOWN FOR CLARITY, SEE FRAMING PLAN SHEETS.
3. ALL FLANGE WIDTH ARE 24" WIDE.
4. DESIGN STIFFENERS SHOWN ONE SIDE OF WEB FOR CLARITY, SEE FRAMING PLAN SHEETS FOR DETAILS.
5. ALL CONSTRUCTABILITY STIFFENERS PLACED ON INSIDE OF WEB FOR FASCIA GIRDERS 1 & 7. CONSTRUCTABILITY STIFFENERS ON GIRDER ELEVATION NOT SHOWN FOR CLARITY. SEE FRAMING PLAN FOR PLACEMENT.
6. SEE BC-753 FOR OPTIONAL METHOD OF STUD LOCATION BY STAGGERING ROWS TRANSVERSELY ACROSS DECK AT THE DISCRETION OF THE FABRICATOR.
7. ΔΔ DENOTES PLATES WHICH ARE SUBJECT TO CHARPY V-NOTCH TESTING.
8. FOR GIRDER REACTION TABLES, SEE SHEET 47.
9. TRANSVERSE STIFFENER LOCATIONS SHOWN FOR INTERIOR GIRDERS. CONSTRUCTABILITY STIFFENERS MAY ACT AS TRANSVERSE STIFFENERS IF SPACING PROVIDED IS NO GREATER THAN THAT SHOWN FOR TRANSVERSE STIFFENERS.



GIRDER NOTCH DETAIL
NOT TO SCALE



GIRDER NOTCH PLAN
NOT TO SCALE



SHEAR CONNECTOR DETAILS
NOT TO SCALE

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

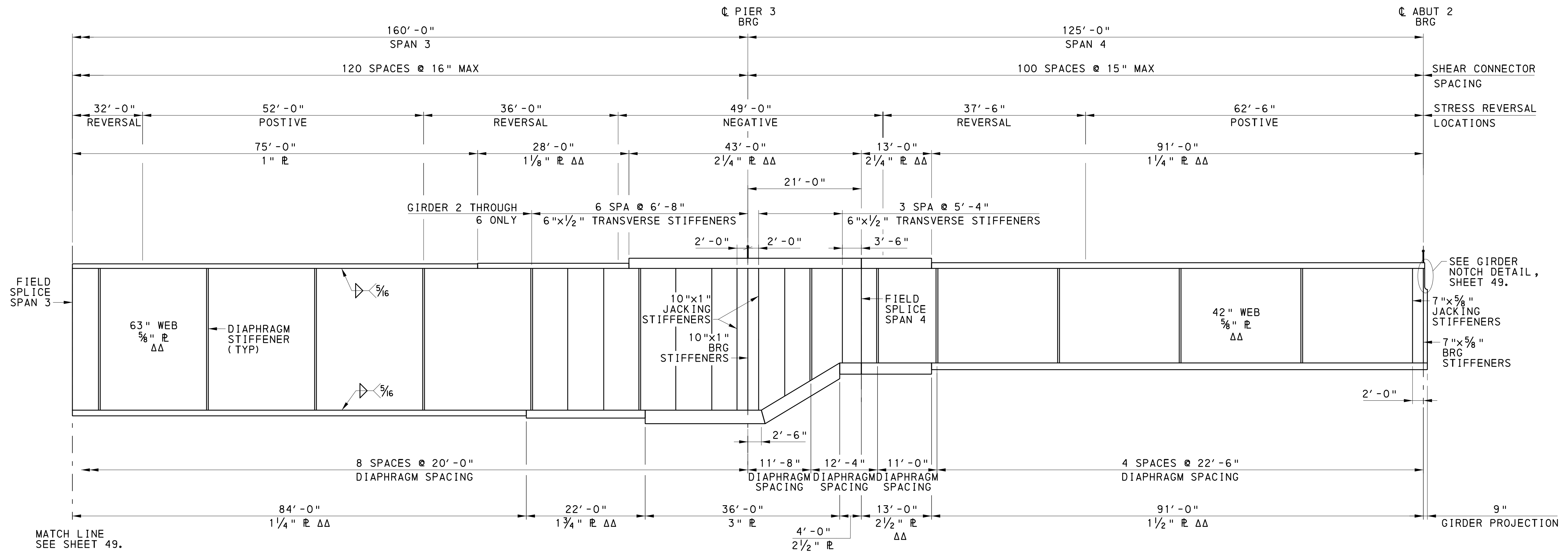
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
GIRDER ELEVATION - 1



RECOMMENDED 2026.05.15 SHEET 49 OF 97

S-42336

FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Final\3022005-BD-01.dgn
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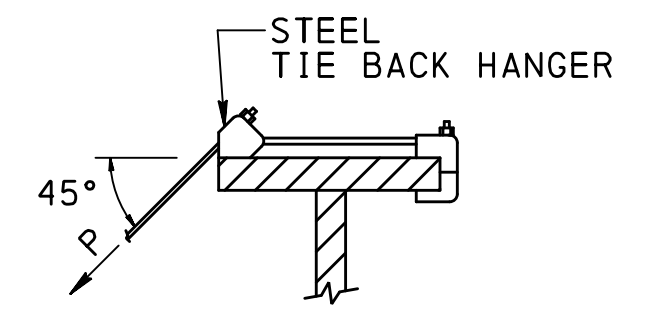


GIRDER ELEVATION - 2
NOT TO SCALE

STRUCTURAL STEEL GIRDER DIMENSIONS DO NOT ACCOUNT FOR METALLIZING. GIRDER FLANGES, BEARING STIFFENERS, JACKING STIFFENERS, DESIGN STIFFENERS, CONSTRUCTION STIFFENERS, WEB PLATES AND SPLICE PLATES ARE TO BE METALLIZED. PLATE WIDTHS ARE TO BE OVERSIZED BY 1/8" TO ACCOUNT FOR EDGE GRINDING.

NOTES:

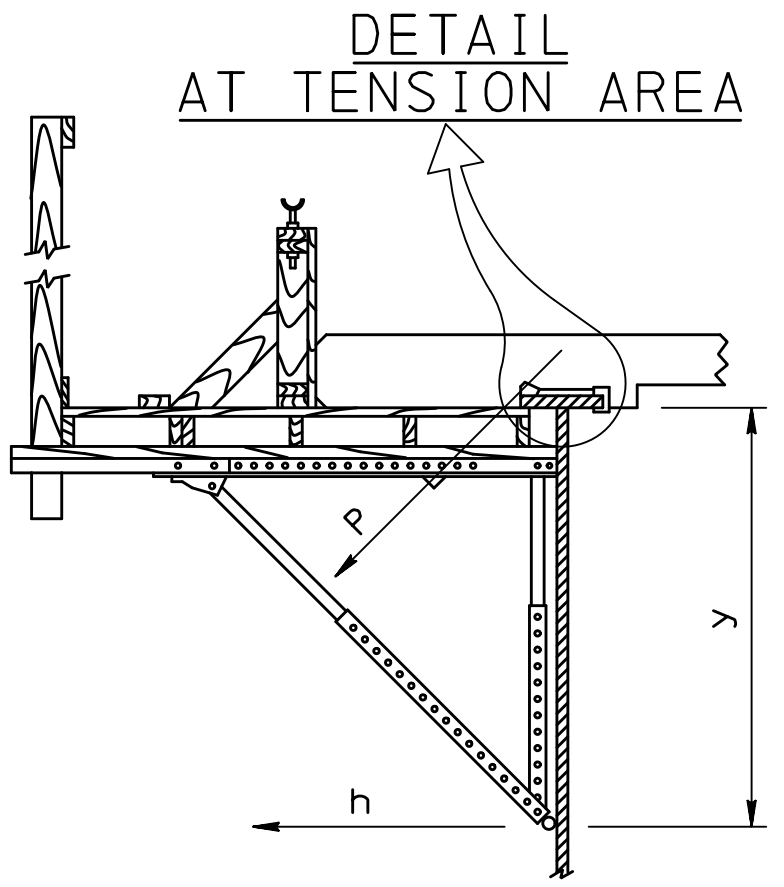
- SEE SHEET 49 FOR STEEL NOTES.
- FOR GIRDER REACTION TABLES, SEE SHEET 47.
- ΔΔ DENOTES PLATES WHICH ARE SUBJECT TO CHARPY V-NOTCH TESTING.
- ALL CONSTRUCTABILITY STIFFENERS PLACED ON INSIDE OF WEB FOR FASCIA GIRDERS 1 AND 7. CONSTRUCTABILITY STIFFENERS ON GIRDER ELEVATION NOT SHOWN FOR CLARITY.
- TRANSVERSE STIFFENER LOCATIONS SHOWN FOR INTERIOR GIRDERS. CONSTRUCTABILITY STIFFENERS MAY ACT AS TRANSVERSE STIFFENERS IF SPACING PROVIDED IS NO GREATER THAN THAT SHOWN FOR TRANSVERSE STIFFENERS.



NOMINAL DEPTH (y) in	MAXIMUM PERMISSIBLE HORIZONTAL LOAD (h) kip/ft
36	1.250
56	0.750
76	0.540

MAXIMUM PERMISSIBLE JACK SPACING 4 ft

THE FASCIA GIRDERS ARE DESIGNED FOR A TEMPORARY CONSTRUCTION LOAD APPLIED TO THE WEB AT A MAXIMUM 4 FT. INTERVAL. THIS LOAD (SEE TABLE) APPROXIMATES THE HORIZONTAL COMPONENT OF A DECK OVERHANG FORM SUPPORT BRACKET AND CONSISTS OF AN ALLOWANCE FOR THE WEIGHT OF THE CONCRETE, FORMS AND INCIDENTAL LOADS, PLUS THE DECK FINISHING MACHINE. WHERE A TRANSVERSE STIFFENER SPACING, LESS THAN THAT REQUIRED FOR THE FINAL DESIGN SHEAR, IS INDICATED FOR CONSTRUCTABILITY, THE SPACING FOR THE FINAL DESIGN SHEAR MAY BE USED IF THE OVERHANG FORMS ARE SUPPORTED FROM THE BOTTOM FLANGE OF THE FASCIA GIRDER, OR IF THE GIRDER WEB IS ADEQUATELY BRACED TO PREVENT BUCKLING DUE TO LOADS FROM WEB-BEARING FORM SUPPORT BRACKETS. THE CONTRACTOR HAS THE OPTION TO MODIFY THE OVERHANG BRACKET FROM THAT DESCRIBED HEREIN PROVIDED WORKING DRAWINGS INCLUDING CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA, ARE SUBMITTED FOR REVIEW AND ACCEPTANCE AND SHOW THE MODIFICATIONS DO NOT CAUSE UNACCEPTABLE DEFORMATIONS OR STRESSES IN THE BRIDGE AND IT IS UNDERSTOOD THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE SATISFACTORY COMPLETION OF THE BRIDGE.



TYPICAL OVERHANG FORMING DETAIL
NO SCALE

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
GIRDER ELEVATION - 2

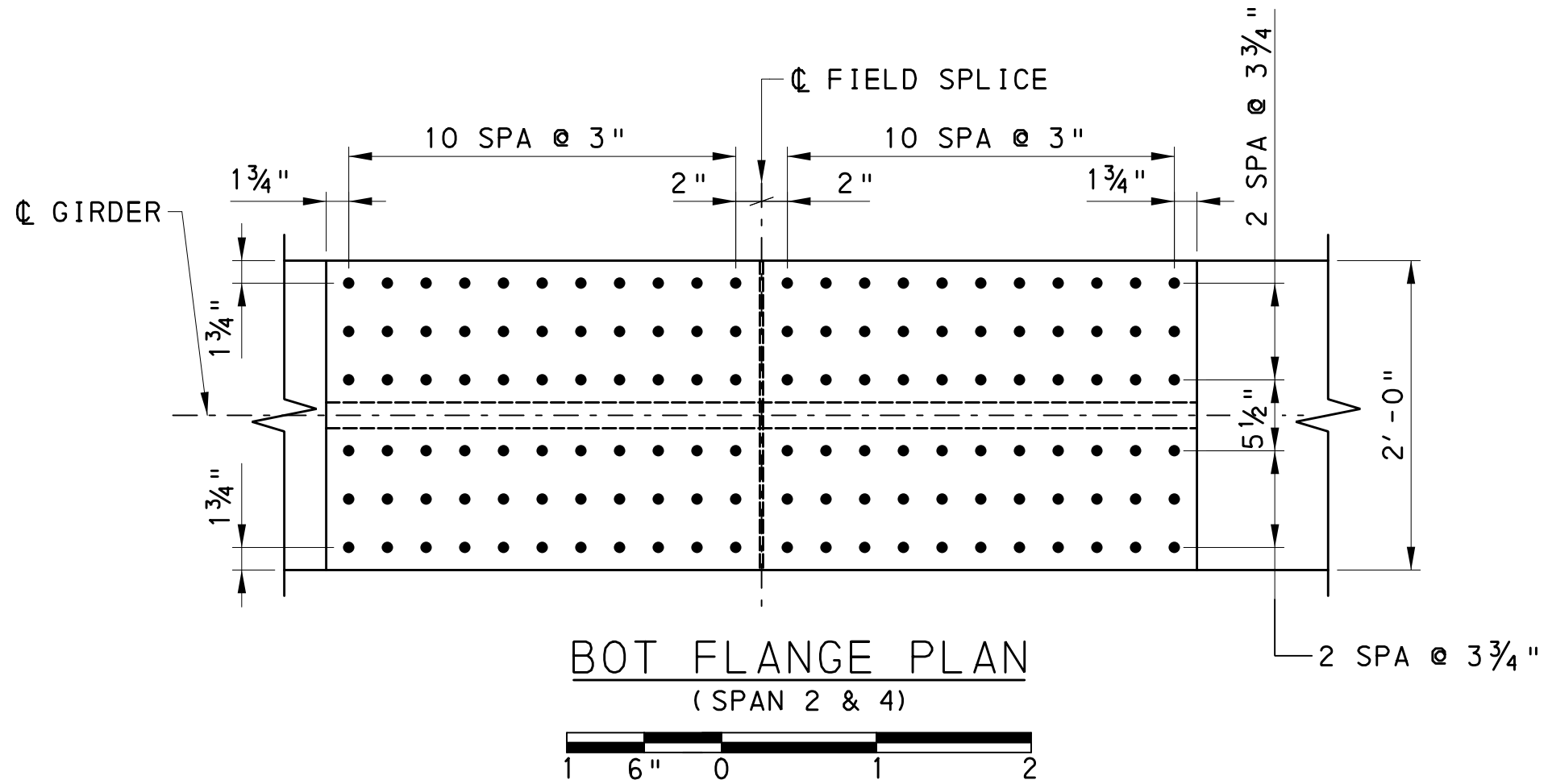
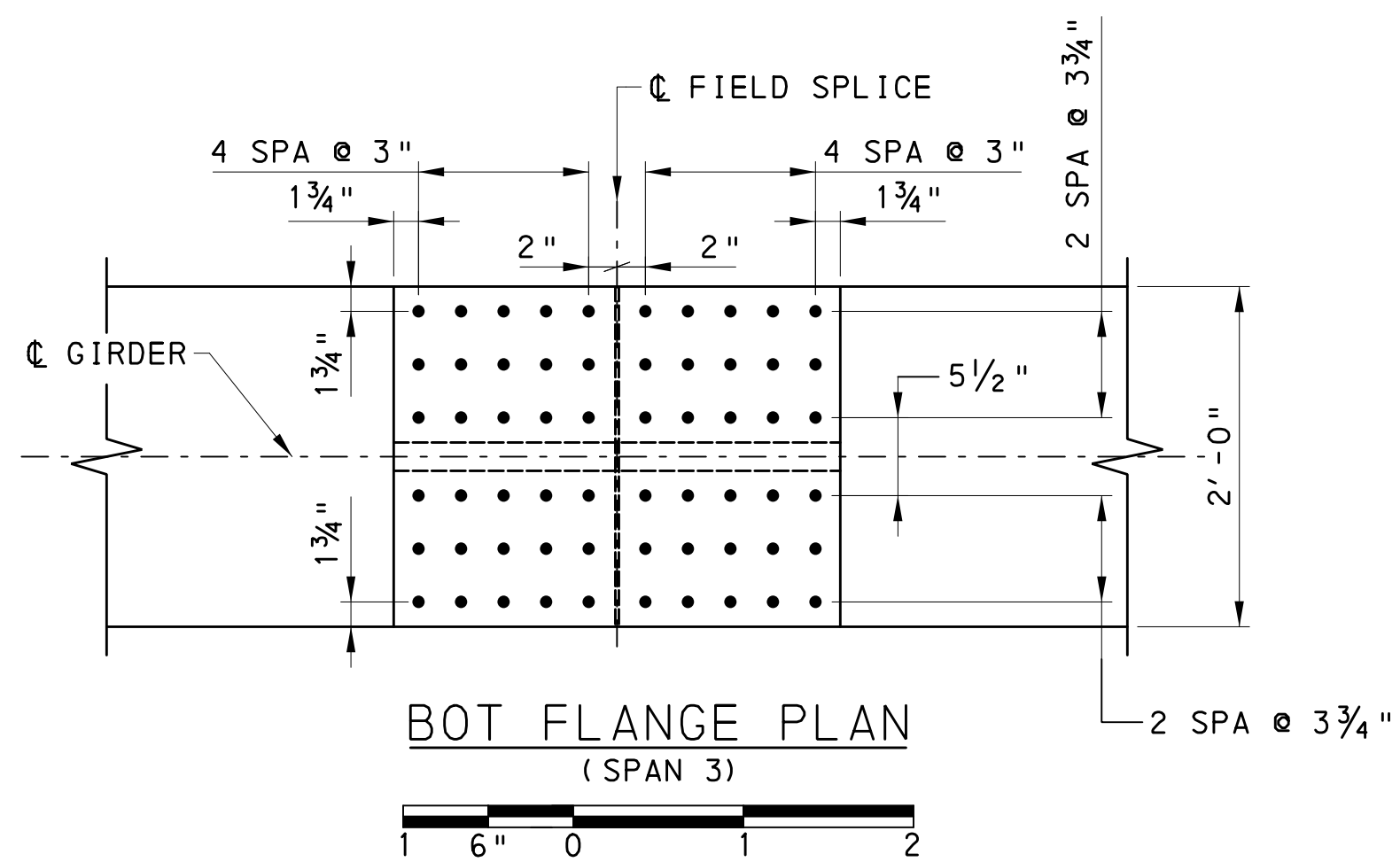
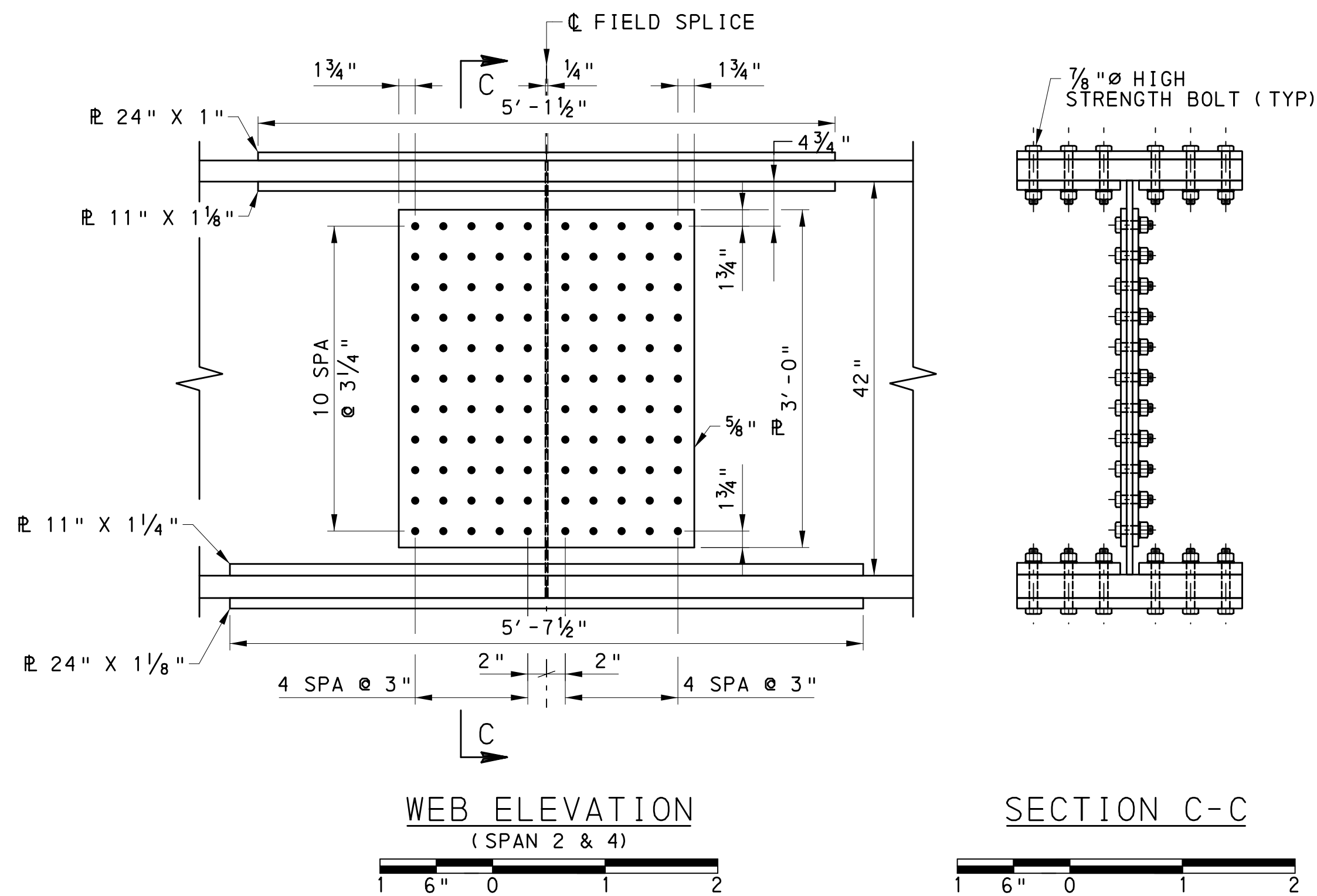
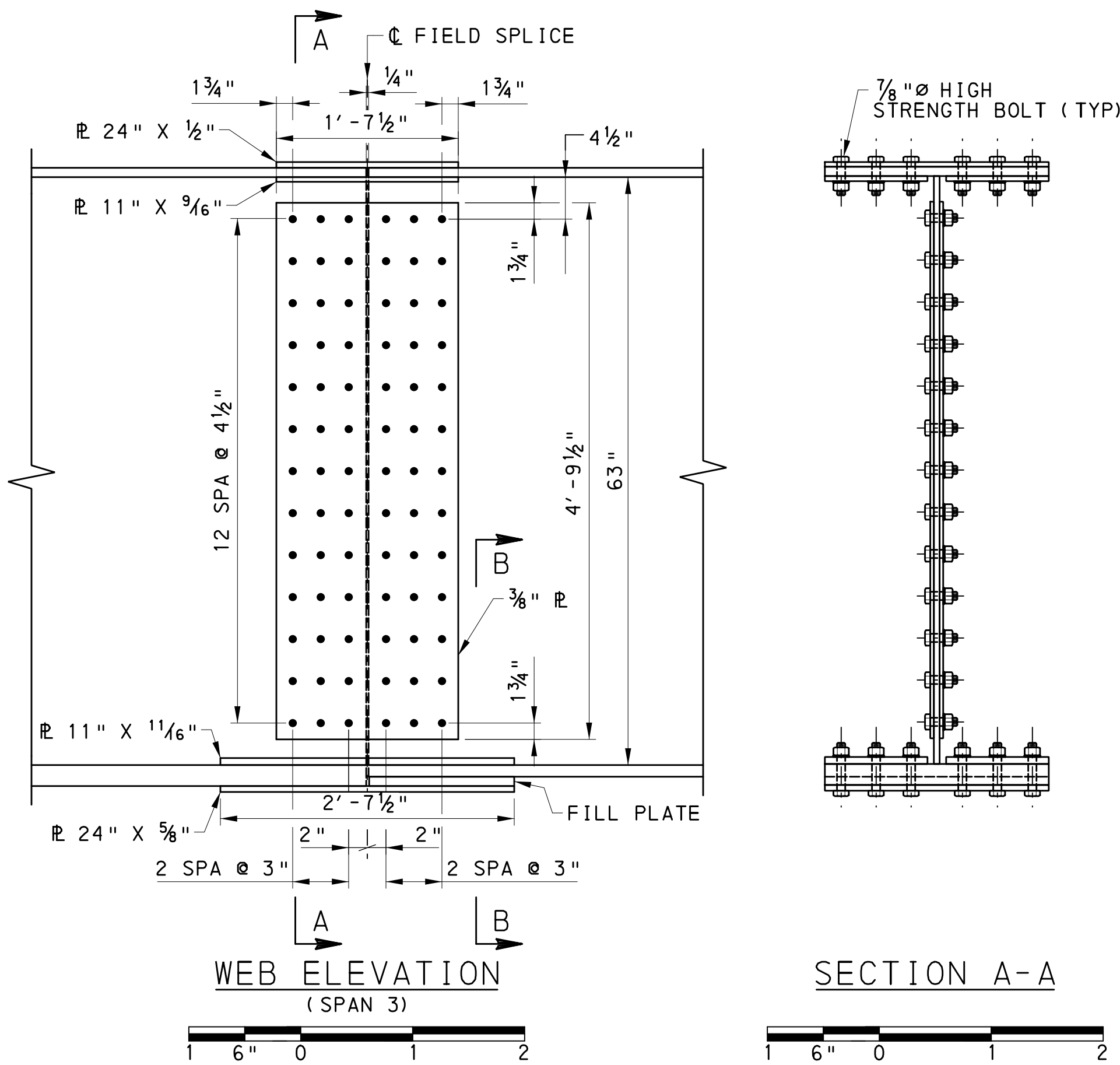
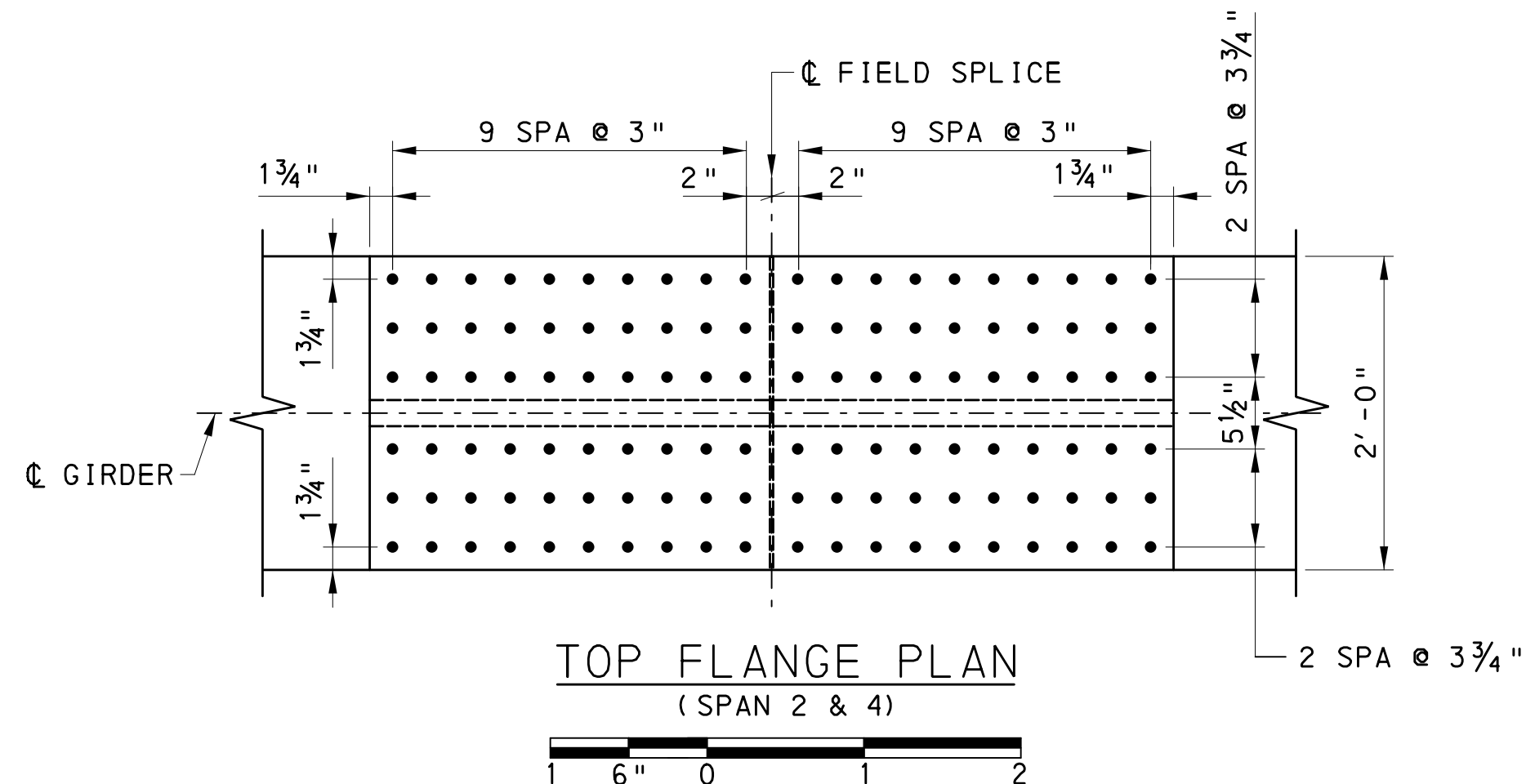
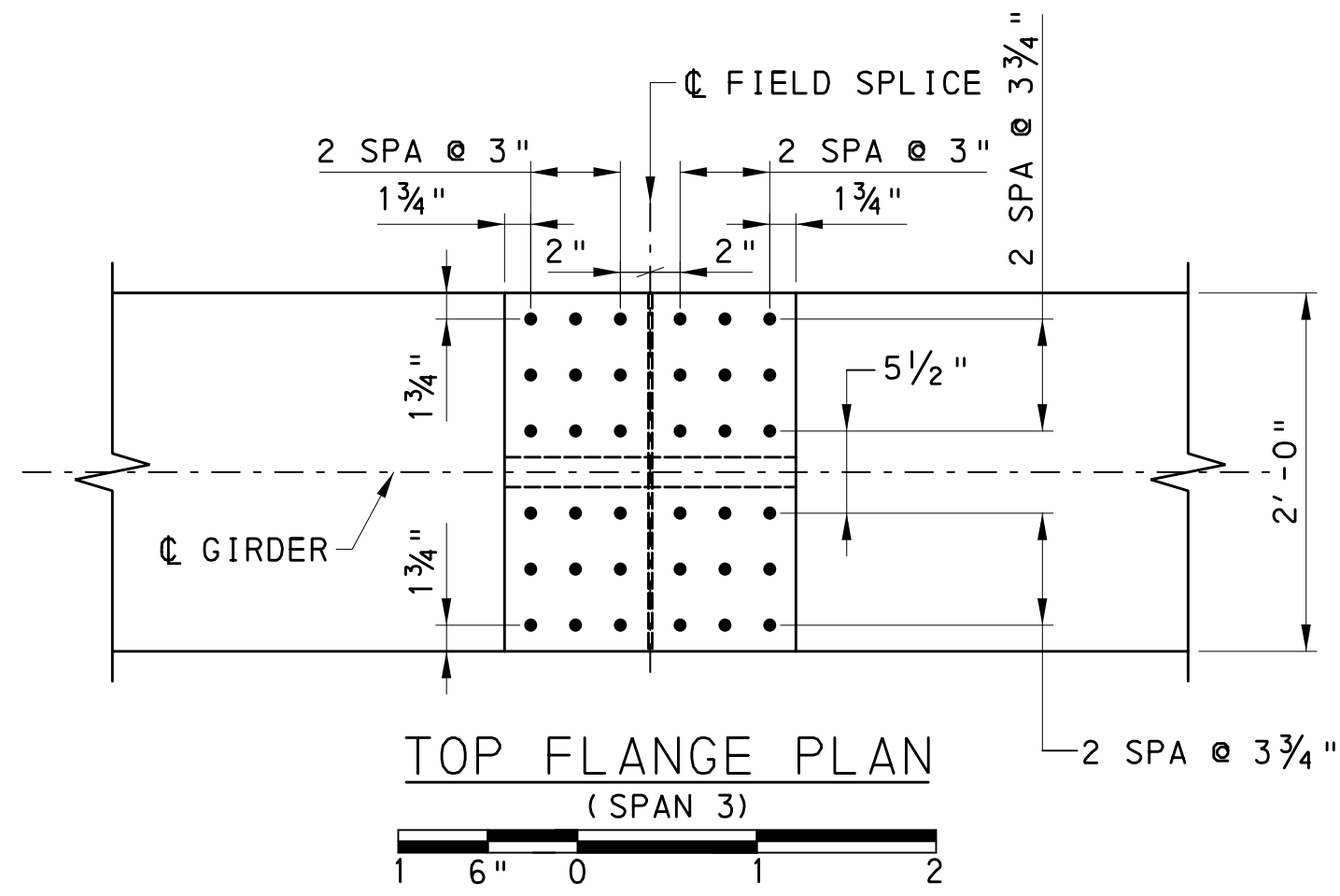


RECOMMENDED 2026.05.15 SHEET 50 OF 97

S-42336

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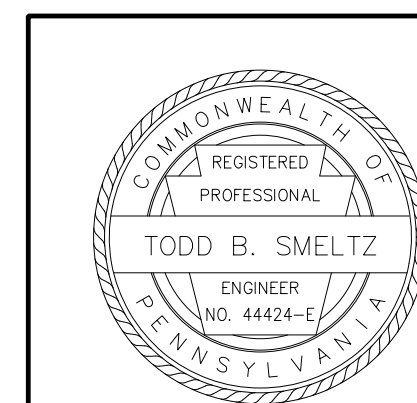
1. FOR GIRDER ELEVATION, SEE SHEETS 49 AND 50.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR FRAMING PLAN, SEE SHEETS 47 AND 48.
4. USE ONLY ONE FILLER PLATE WHERE REQUIRED.
5. EXCLUDE BOLT THREADS FROM SHEAR PLANE.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
FIELD SPLICES

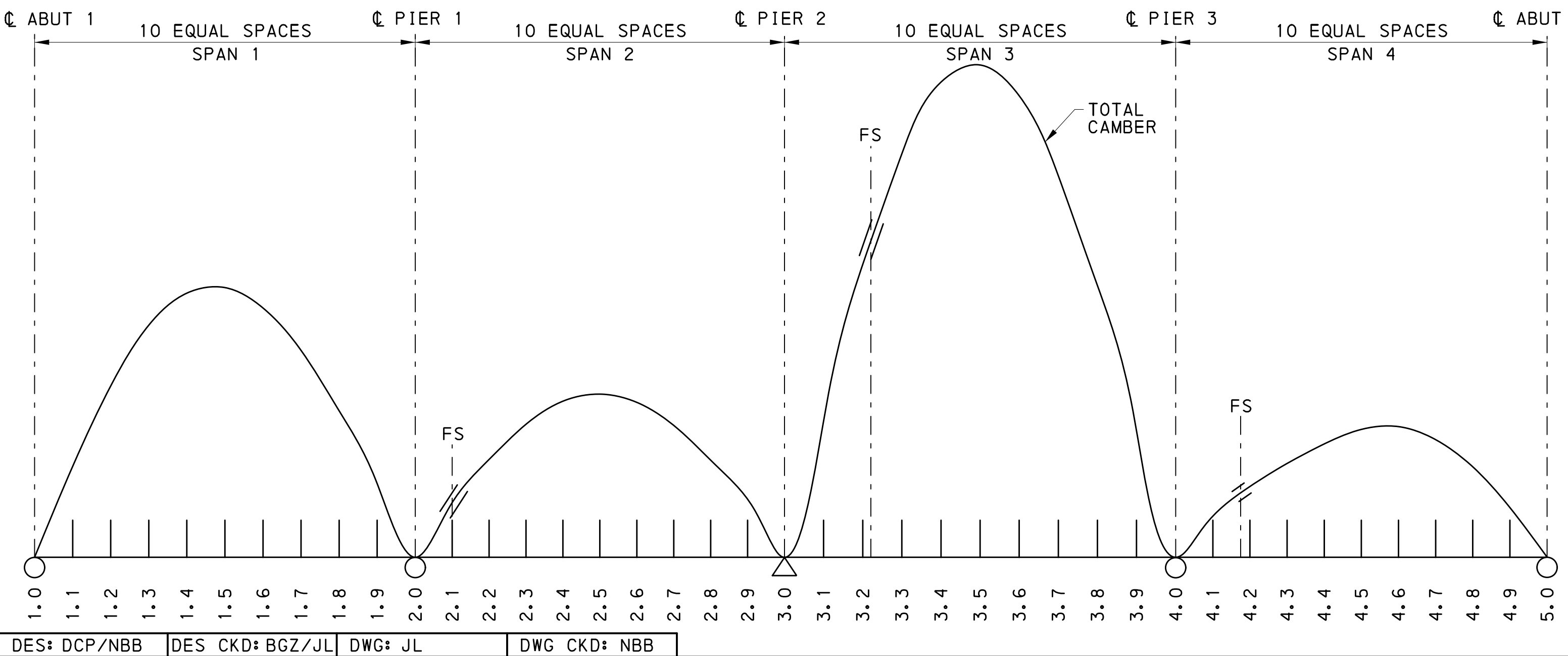


RECOMMENDED 2026.05.15

SHEET 51 OF 97

S-42336

GIRDER	TYPE OF CAMBER	ABUT 1	SPAN 1									PIER 1	SPAN 2									PIER 2
		1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1/F.S.	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0
G1	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	1.180	2.192	2.912	3.269	3.241	2.856	2.195	1.388	0.602	0.000	-0.294	-0.349	-0.278	-0.200	-0.194	-0.278	-0.404	-0.472	-0.355	0.000
	CLOSURE PLACEMENT	0.000	0.083	0.155	0.206	0.232	0.230	0.203	0.157	0.100	0.043	0.000	-0.022	-0.027	-0.024	-0.019	-0.020	-0.026	-0.034	-0.038	-0.027	0.000
	SUPERIMPOSED DL	0.000	0.237	0.439	0.584	0.657	0.653	0.577	0.446	0.284	0.124	0.000	-0.064	-0.081	-0.072	-0.062	-0.066	-0.083	-0.105	-0.113	-0.081	0.000
	GEOMETRIC	0.000	1.900	3.587	4.800	5.538	5.802	5.590	4.905	3.745	2.110	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	3.590	6.726	8.972	10.226	10.454	9.695	8.067	5.752	2.982	0.000	1.907	3.633	5.018	5.894	6.150	5.768	4.815	3.431	1.803	0.000
G2	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	1.145	2.126	2.825	3.170	3.143	2.769	2.127	1.345	0.583	0.000	-0.283	-0.334	-0.263	-0.185	-0.178	-0.259	-0.382	-0.450	-0.341	0.000
	CLOSURE PLACEMENT	0.000	0.077	0.144	0.191	0.215	0.213	0.188	0.145	0.092	0.040	0.000	-0.021	-0.026	-0.022	-0.019	-0.019	-0.025	-0.032	-0.035	-0.026	0.000
	SUPERIMPOSED DL	0.000	0.219	0.407	0.542	0.609	0.605	0.535	0.413	0.263	0.115	0.000	-0.060	-0.076	-0.069	-0.060	-0.063	-0.079	-0.100	-0.106	-0.076	0.000
	GEOMETRIC	0.000	1.854	3.541	4.759	5.503	5.773	5.567	4.888	3.733	2.104	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	3.485	6.571	8.787	10.027	10.262	9.528	7.937	5.668	2.945	0.000	1.923	3.654	5.038	5.911	6.170	5.792	4.844	3.463	1.823	0.000
G3	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	0.650	1.206	1.602	1.799	1.783	1.571	1.207	0.763	0.331	0.000	-0.161	-0.190	-0.149	-0.105	-0.101	-0.147	-0.217	-0.255	-0.193	0.000
	CLOSURE PLACEMENT	0.000	0.093	0.173	0.230	0.259	0.257	0.227	0.175	0.111	0.048	0.000	-0.024	-0.030	-0.025	-0.020	-0.021	-0.028	-0.037	-0.041	-0.030	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	1.808	3.490	4.715	5.465	5.741	5.542	4.869	3.720	2.097	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	2.741	5.222	7.017	8.053	8.309	7.809	6.615	4.829	2.579	0.000	2.102	3.870	5.218	6.050	6.308	5.980	5.104	3.758	2.043	0.000
G4	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	0.650	1.206	1.602	1.799	1.783	1.571	1.207	0.763	0.331	0.000	-0.161	-0.190	-0.149	-0.105	-0.101	-0.147	-0.217	-0.255	-0.193	0.000
	CLOSURE PLACEMENT	0.000	0.093	0.173	0.230	0.259	0.257	0.227	0.175	0.111	0.048	0.000	-0.024	-0.030	-0.025	-0.020	-0.021	-0.028	-0.037	-0.041	-0.030	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	1.763	3.435	4.667	5.424	5.707	5.514	4.848	3.706	2.091	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	2.696	5.167	6.969	8.012	8.275	7.781	6.594	4.815	2.573	0.000	2.102	3.870	5.218	6.050	6.308	5.980	5.104	3.758	2.043	0.000
G5	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	1.145	2.126	2.825	3.170	3.143	2.769	2.127	1.345	0.583	0.000	-0.283	-0.334	-0.263	-0.185	-0.178	-0.259	-0.382	-0.450	-0.341	0.000
	CLOSURE PLACEMENT	0.000	0.077	0.144	0.191	0.215	0.213	0.188	0.145	0.092	0.040	0.000	-0.021	-0.026	-0.022	-0.019	-0.019	-0.025	-0.032	-0.035	-0.026	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	1.718	3.375	4.614	5.379	5.669	5.485	4.825	3.692	2.083	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	3.130	5.998	8.100	9.294	9.553	8.911	7.461	5.364	2.809	0.000	1.983	3.730	5.107	5.971	6.233	5.871	4.944	3.569	1.899	0.000
G6	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	1.145	2.126	2.825	3.170	3.143	2.769	2.127	1.345	0.583	0.000	-0.283	-0.334	-0.263	-0.185	-0.178	-0.259	-0.382	-0.450	-0.341	0.000
	CLOSURE PLACEMENT	0.000	0.077	0.144	0.191	0.215	0.213	0.188	0.145	0.092	0.040	0.000	-0.021	-0.026	-0.022	-0.019	-0.019	-0.025	-0.032	-0.035	-0.026	0.000
	SUPERIMPOSED DL	0.000	0.219	0.407	0.542	0.609	0.605	0.535	0.413	0.263	0.115	0.000	-0.060	-0.076	-0.069	-0.060	-0.063	-0.079	-0.100	-0.106	-0.076	0.000
	GEOMETRIC	0.000	1.674	3.311	4.558	5.331	5.629	5.452	4.801	3.675	2.075	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	3.305	6.341	8.586	9.855	10.118	9.413	7.850	5.610	2.916	0.000	1.923	3.654	5.038	5.911	6.170	5.792	4.844	3.463	1.823	0.000
G7	STEEL	0.000	0.190	0.353	0.470	0.530	0.528	0.469	0.364	0.235	0.103	0.000	-0.057	-0.077	-0.078	-0.076	-0.081	-0.096	-0.112	-0.113	-0.078	0.000
	CONCRETE	0.000	1.180	2.192	2.912	3.269	3.241	2.856	2.195	1.388	0.602	0.000	-0.294	-0.349	-0.278	-0.200	-0.194	-0.278	-0.404	-0.472	-0.355	0.000
	CLOSURE PLACEMENT	0.000	0.083	0.155	0.206	0.232	0.230	0.203	0.157	0.100	0.043	0.000	-0.022	-0.027	-0.024	-0.019	-0.020	-0.026	-0.034	-0.038	-0.027	0.000
	SUPERIMPOSED DL	0.000	0.237	0.439	0.584	0.657	0.653	0.577	0.446	0.284	0.124	0.000	-0.064	-0.081	-0.072	-0.062	-0.066	-0.083	-0.105	-0.113	-0.081	0.000
	GEOMETRIC	0.000	1.631	3.242	4.498	5.279	5.586	5.418	4.775	3.658	2.066	0.000	2.344	4.167	5.470	6.251	6.511	6.251	5.470	4.167	2.344	0.000
	TOTAL	0.000	3.321	6.381	8.670	9.967	10.238	9.523	7.937	5.665	2.938	0.000	1.907	3.633	5.018	5.894	6.150	5.768	4.815	3.431	1.803	0.000



NOTES:
 1. SEE CAMBER TABLE 2 FOR NOTES, SHEET 53.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					



S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
CAMBER DIAGRAM AND TABLE 1

RECOMMENDED _____ 2026.05.15

SHEET 52 OF 97

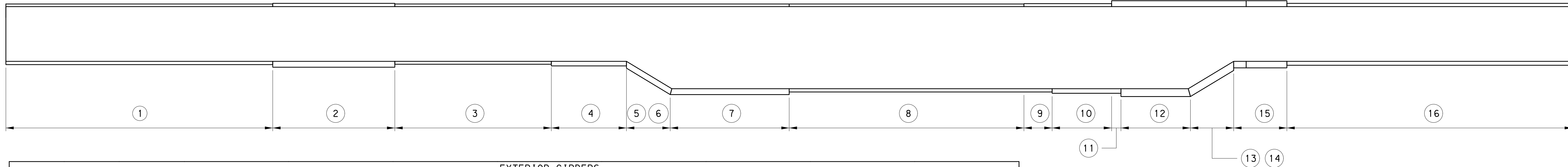
S-42336

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DATE: 5/14/2026 TIME: 1:36:03 PM

GIRDER	TYPE OF CAMBER	PIER 2	SPAN 3										PIER 3	SPAN 4										ABUT 2
		3.0	3.1	3.2	F.S.	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	F.S.	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5.0
G1	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.886	1.936	2.126	2.858	3.410	3.471	3.041	2.232	1.275	0.466	0.000	-0.010	0.200	0.361	1.019	1.779	2.410	2.722	2.615	2.068	1.146	0.000
	CLOSURE PLACEMENT	0.000	0.068	0.148	0.163	0.220	0.265	0.272	0.241	0.179	0.104	0.038	0.000	0.001	0.021	0.035	0.091	0.152	0.201	0.223	0.212	0.166	0.092	0.000
	SUPERIMPOSED DL	0.000	0.197	0.431	0.473	0.638	0.764	0.784	0.693	0.516	0.300	0.111	0.000	0.002	0.055	0.094	0.251	0.424	0.561	0.625	0.594	0.467	0.258	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.324	1.840	1.975	1.958	1.678	1.398	1.119	0.839	0.559	0.280	0.000
	TOTAL	0.000	6.290	11.718	12.601	15.851	18.330	18.978	17.791	14.935	10.748	5.668	0.000	1.313	2.149	2.527	3.500	4.350	4.999	5.174	4.725	3.627	1.980	0.000
G2	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.852	1.866	2.049	2.758	3.292	3.353	2.937	2.155	1.230	0.449	0.000	-0.007	0.198	0.356	0.996	1.734	2.346	2.649	2.544	2.011	1.115	0.000
	CLOSURE PLACEMENT	0.000	0.063	0.138	0.151	0.205	0.246	0.253	0.224	0.167	0.097	0.035	0.000	0.001	0.019	0.033	0.085	0.142	0.187	0.208	0.198	0.155	0.086	0.000
	SUPERIMPOSED DL	0.000	0.184	0.400	0.440	0.593	0.710	0.728	0.645	0.480	0.280	0.103	0.000	0.002	0.051	0.089	0.235	0.396	0.523	0.582	0.554	0.435	0.240	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.367	1.913	2.062	2.085	1.787	1.489	1.191	0.893	0.596	0.298	0.000
	TOTAL	0.000	6.238	11.607	12.479	15.691	18.139	18.785	17.622	14.810	10.676	5.640	0.000	1.359	2.214	2.602	3.582	4.376	4.974	5.115	4.654	3.564	1.943	0.000
G3	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.484	1.059	1.162	1.565	1.867	1.902	1.666	1.222	0.698	0.254	0.000	-0.004	0.113	0.201	0.565	0.984	1.332	1.504	1.443	1.141	0.632	0.000
	CLOSURE PLACEMENT	0.000	0.075	0.165	0.181	0.245	0.294	0.301	0.266	0.198	0.115	0.042	0.000	0.001	0.022	0.038	0.099	0.167	0.221	0.246	0.234	0.184	0.102	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.411	1.986	2.149	2.214	1.899	1.583	1.266	0.950	0.633	0.317	0.000
	TOTAL	0.000	5.698	10.427	11.182	13.945	16.052	16.654	15.748	13.428	9.882	5.349	0.000	1.404	2.154	2.450	3.059	3.367	3.565	3.501	3.092	2.325	1.255	0.000
G4	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.484	1.059	1.162	1.565	1.867	1.902	1.666	1.222	0.698	0.254	0.000	-0.004	0.113	0.201	0.565	0.984	1.332	1.504	1.443	1.141	0.632	0.000
	CLOSURE PLACEMENT	0.000	0.075	0.165	0.181	0.245	0.294	0.301	0.266	0.198	0.115	0.042	0.000	0.001	0.022	0.038	0.099	0.167	0.221	0.246	0.234	0.184	0.102	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.453	2.058	2.234	2.342	2.015	1.679	1.343	1.008	0.672	0.336	0.000
	TOTAL	0.000	5.698	10.427	11.182	13.945	16.052	16.654	15.748	13.428	9.882	5.349	0.000	1.446	2.226	2.535	3.187	3.483	3.661	3.578	3.150	2.364	1.274	0.000
G5	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.852	1.866	2.049	2.758	3.292	3.353	2.937	2.155	1.230	0.449	0.000	-0.007	0.198	0.356	0.996	1.734	2.346	2.649	2.544	2.011	1.115	0.000
	CLOSURE PLACEMENT	0.000	0.063	0.138	0.151	0.205	0.246	0.253	0.224	0.167	0.097	0.035	0.000	0.001	0.019	0.033	0.085	0.142	0.187	0.208	0.198	0.155	0.086	0.000
	SUPERIMPOSED DL	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.496	2.128	2.318	2.469	2.134	1.779	1.423	1.067	0.711	0.356	0.000
	TOTAL	0.000	6.054	11.207	12.039	15.098	17.429	18.057	16.977	14.330	10.396	5.537	0.000	1.486	2.378	2.769	3.731	4.327	4.741	4.765	4.274	3.244	1.761	0.000
G6	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.852	1.866	2.049	2.758	3.292	3.353	2.937	2.155	1.230	0.449	0.000	-0.007	0.198	0.356	0.996	1.734	2.346	2.649	2.544	2.011	1.115	0.000
	CLOSURE PLACEMENT	0.000	0.063	0.138	0.151	0.205	0.246	0.253	0.224	0.167	0.097	0.035	0.000	0.001	0.019	0.033	0.085	0.142	0.187	0.208	0.198	0.155	0.086	0.000
	SUPERIMPOSED DL	0.000	0.184	0.400	0.440	0.593	0.710	0.728	0.645	0.480	0.280	0.103	0.000	0.002	0.051	0.089	0.235	0.396	0.523	0.582	0.554	0.435	0.240	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.537	2.198	2.402	2.593	2.257	1.881	1.505	1.128	0.752	0.376	0.000
	TOTAL	0.000	6.238	11.607	12.479	15.691	18.139	18.785	17.622	14.810	10.676	5.640	0.000	1.529	2.499	2.942	4.090	4.846	5.366	5.429	4.889	3.720	2.021	0.000
G7	STEEL	0.000	0.180	0.386	0.422	0.563	0.666	0.675	0.591	0.436	0.252	0.094	0.000	-0.004	0.033	0.062	0.181	0.317	0.429	0.485	0.465	0.367	0.204	0.000
	CONCRETE	0.000	0.886	1.936	2.126	2.858	3.410	3.471	3.041	2.232	1.275	0.466	0.000	-0.010	0.200	0.361	1.019	1.779	2.410	2.722	2.615	2.068	1.146	0.000
	CLOSURE PLACEMENT	0.000	0.068	0.148	0.163	0.220	0.265	0.272	0.241	0.179	0.104	0.038	0.000	0.001	0.021	0.035	0.091	0.152	0.201	0.223	0.212	0.166	0.092	0.000
	SUPERIMPOSED DL	0.000	0.197	0.431	0.473	0.638	0.764	0.784	0.693	0.516	0.300	0.111	0.000	0.002	0.055	0.094	0.251	0.424	0.561	0.625	0.594	0.467	0.258	0.000
	GEOMETRIC	0.000	4.959	8.817	9.417	11.572	13.225	13.776	13.225	11.572	8.817	4.959	0.000	1.578	2.267	2.483	2.716	2.383	1.986	1.589	1.192	0.794	0.397	0.000
	TOTAL	0.000	6.290	11.718	12.601	15.851	18.330	18.978	17.791	14.935	10.748	5.668	0.000	1.567	2.576	3.035	4.258	5.055	5.587	5.644	5.078	3.862	2.097	0.000

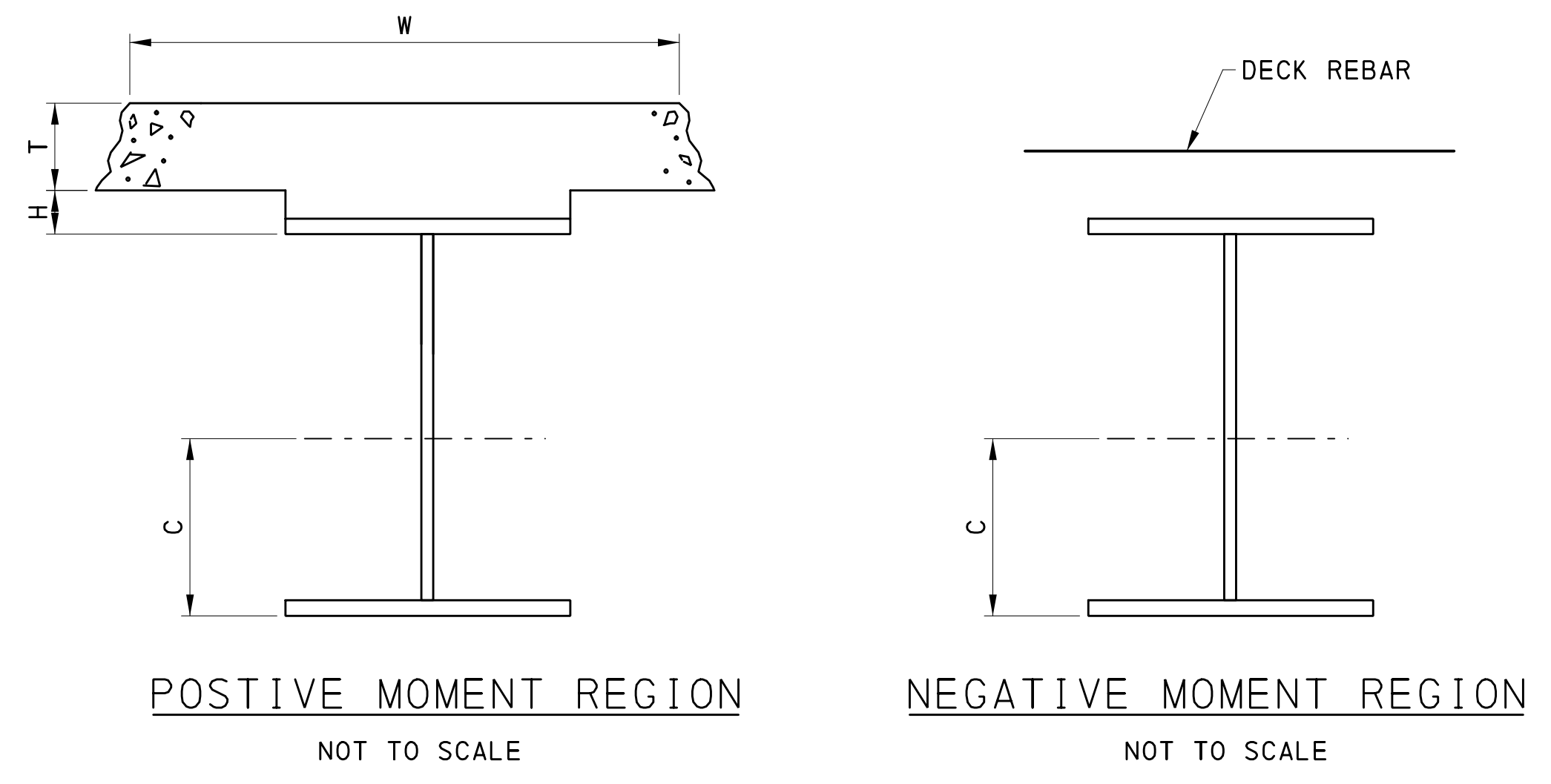
1. STEEL INCLUDES WEIGHT OF GIRDER & ATTACHMENTS.
2. CONCRETE INCLUDES WEIGHT OF HAUNCH & SIP FORMS.
3. CONTRACTOR TO SURVEY TOP OF GIRDER 3 AFTER STAGE 1 DECK, SIDEWALK, AND BARRIER HAS BEEN POURED AND AGAIN AFTER TEMPORARY BARRIERS FOR STAGE 2 HAVE BEEN PLACED. CONTRACTOR TO SURVEY TOP OF GIRDER 4 AFTER STAGE 2 DECK HAS BEEN POURED. CONTRACTOR TO USE TOP OF GIRDER 3 & 4 SURVEYED ELEVATIONS TO SET DECK PAN ELEVATIONS FOR THE CLOSURE POUR.
4. CLOSURE PLACEMENT BETWEEN GIRDERS 3 AND 4 PLACED AFTER PLACEMENT OF DECK BETWEEN GIRDERS 1 THROUGH 3 HAD ACHIEVED COMPOSITE ACTION. CONCRETE LOAD IS DISTRIBUTED EQUALLY AMONG ALL 7 GIRDERS.
5. CAMBER ANALYSIS OF THE WEIGHT OF THE DECK SLAB WAS PERFORMED CONSIDERING PLACEMENT SEQUENCE.

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397



EXTERIOR GIRDERS									
PLATE		1	2	3	4	5	6	7	8
SLAB	W X T X H	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25		123 X 9.5 X 2.25	123 X 9.5 X 2.25
TOP FLANGE	W X T	24 X 1	24 X 1.25	24 X 1	24 X 1	24 X 1		24 X 1	24 X 1
WEB	H X T	42 X .625	42 X .625	42 X .625	42 X .625	HEIGHT VARIES 42 TO 63 X 0.625		63 X .625	63 X .625
BOTTOM FLANGE	W X T	24 X 1.25	24 X 2.25	24 X 1.25	24 X 1.75	24 X 2.25		24 X 2.25	24 X 1.25
STEEL ONLY	I (IN^4)	28768	41644	27454	33305	36992	86688	86688	68155
	C	20.6	18.3	21.27	18.38	16.74	25.28	25.28	30.65
COMPOSITE 3N=24	I (IN^4)	55774	78671	52682	67044	76872	162937	162937	121245
	C	31.79	28.39	32.42	29.56	27.72	39.05	39.05	44.56
COMPOSITE N=8	I (IN^4)	75404	110950	70620	93620	110526	231307	231307	163111
	C	39.73	37.07	40.14	38.22	36.87	51.32	51.32	55.41
COMPOSITE NEGATIVE	I (IN^4)	28768	55895	37870	46745	52510	115770	115770	68155
	C	20.6	22.2	25.92	22.87	21.04	30.54	30.54	30.65

EXTERIOR GIRDERS (CONTINUED)									
PLATE		9	10	11	12	13	14	15	16
SLAB	W X T X H	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25	123 X 9.5 X 2.25		123 X 9.5 X 2.25	123 X 9.5 X 2.25
TOP FLANGE	W X T	24 X 1.125	24 X 1.125	24 X 2.25	24 X 2.25	24 X 2.25		24 X 2.25	24 X 1.25
WEB	H X T	63 X .625	63 X .625	63 X .625	63 X .625	HEIGHT VARIES 63 TO 42 X 0.625		42 X .625	42 X .625
BOTTOM FLANGE	W X T	24 X 1.25	24 X 1.75	24 X 1.75	24 X 3	24 X 3		24 X 2.5	24 X 1.5
STEEL ONLY	I (IN^4)	71647	82563	113362	146704	146704	65632	59910	34734
	C	31.73	28.69	36.22	30.79	30.79	21.21	22.5	21.04
COMPOSITE 3N=24	I (IN^4)	122510	145195	158917	214074	214074	100965	90660	62740
	C	44.99	42.03	45.62	40.38	40.38	28.66	29.97	31.22
COMPOSITE N=8	I (IN^4)	163401	198985	203134	285981	285981	137398	121166	84877
	C	55.54	53.4	54.66	50.58	50.58	36.28	37.29	39.1
COMPOSITE NEGATIVE	I (IN^4)	71647	106796	130290	171002	171002	78502	71246	34734
	C	31.73	33.87	39.73	34.26	34.26	23.94	25.27	21.04



INTERIOR GIRDERS									
PLATE		1	2	3	4	5	6	7	8
SLAB	W X T X H	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25		158 X 9.5 X 2.25	158 X 9.5 X 2.25
TOP FLANGE	W X T	24 X 1	24 X 1.25	24 X 1	24 X 1	24 X 1		24 X 1	24 X 1
WEB	H X T	42 X .625	42 X .625	42 X .625	42 X .625	HEIGHT VARIES 42 TO 63 X 0.625		63 X .625	63 X .625
BOTTOM FLANGE	W X T	24 X 1.25	24 X 2.25	24 X 1.25	24 X 1.75	24 X 2.25		24 X 2.25	24 X 1.25
STEEL ONLY	I (IN^4)	28768	41644	27454	33305	36992	86688	86688	68155
	C	20.6	18.3	21.27	18.38	16.74	25.28	25.28	30.65
COMPOSITE 3N=24	I (IN^4)	60152	85453	56708	72826	84027	177174	177174	130363
	C	33.59	30.23	34.18	31.46	29.68	41.61	41.61	46.94
COMPOSITE N=8	I (IN^4)	79612	118470	74435	99506	118225	247388	247388	172327
	C	41.37	39.06	41.71	40.08	38.93	54.18	54.18	57.76
COMPOSITE NEGATIVE	I (IN^4)	28768	59189	40128	49764	56072	122599	122599	68155
	C	20.6	23.12	26.94	23.88	22.03	31.79	31.79	30.65

INTERIOR GIRDERS (CONTINUED)									
PLATE		9	10	11	12	13	14	15	16
SLAB	W X T X H	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25	158 X 9.5 X 2.25		158 X 9.5 X 2.25	158 X 9.5 X 2.25
TOP FLANGE	W X T	24 X 1.125	24 X 1.125	24 X 2.25	24 X 2.25	24 X 2.25		24 X 2.25	24 X 1.25
WEB	H X T	63 X .625	63 X .625	63 X .625	63 X .625	HEIGHT VARIES 63 TO 42 X 0.625		42 X .625	42 X .625
BOTTOM FLANGE	W X T	24 X 1.25	24 X 1.75	24 X 1.75	24 X 3	24 X 3		24 X 2.5	24 X 1.5
STEEL ONLY	I (IN^4)	71647	82563	113362	146704	146704	65632	59910	34734
	C	31.73	28.69	36.22	30.79	30.79	21.21	22.5	21.04
COMPOSITE 3N=24	I (IN^4)	131357	156570	167846	228058	228058	108145	96763	67547
	C	47.29	44.45	47.45	42.37	42.37	30.18	31.44	32.95
COMPOSITE N=8	I (IN^4)	172496	211351	214056	304774	304774	146748	128825	89806
	C	57.84	55.99	56.86	53.23	53.23	38.21	39.1	40.79
COMPOSITE NEGATIVE	I (IN^4)	71647	112413	134321	176940	176940	81600	73945	34734
	C	31.73	35.08	40.57	35.11	35.11	24.61	25.94	21.04

NOTE: HAUNCH HEIGHT, H, IS BASED ON STLRFD INPUT OF THE THICKEST TOP FLANGE PLATE.

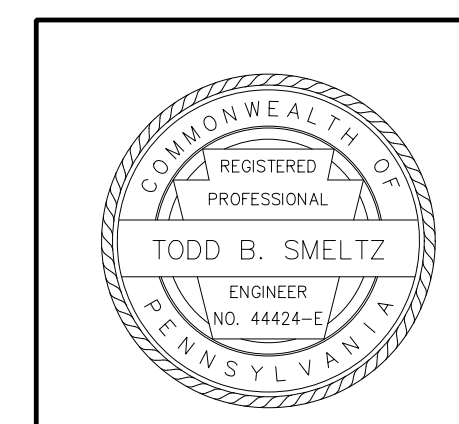
NOTES:
1. FOR FRAMING PLAN, SEE SHEETS 47 AND 48.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
GIRDER SECTION PROPERTIES

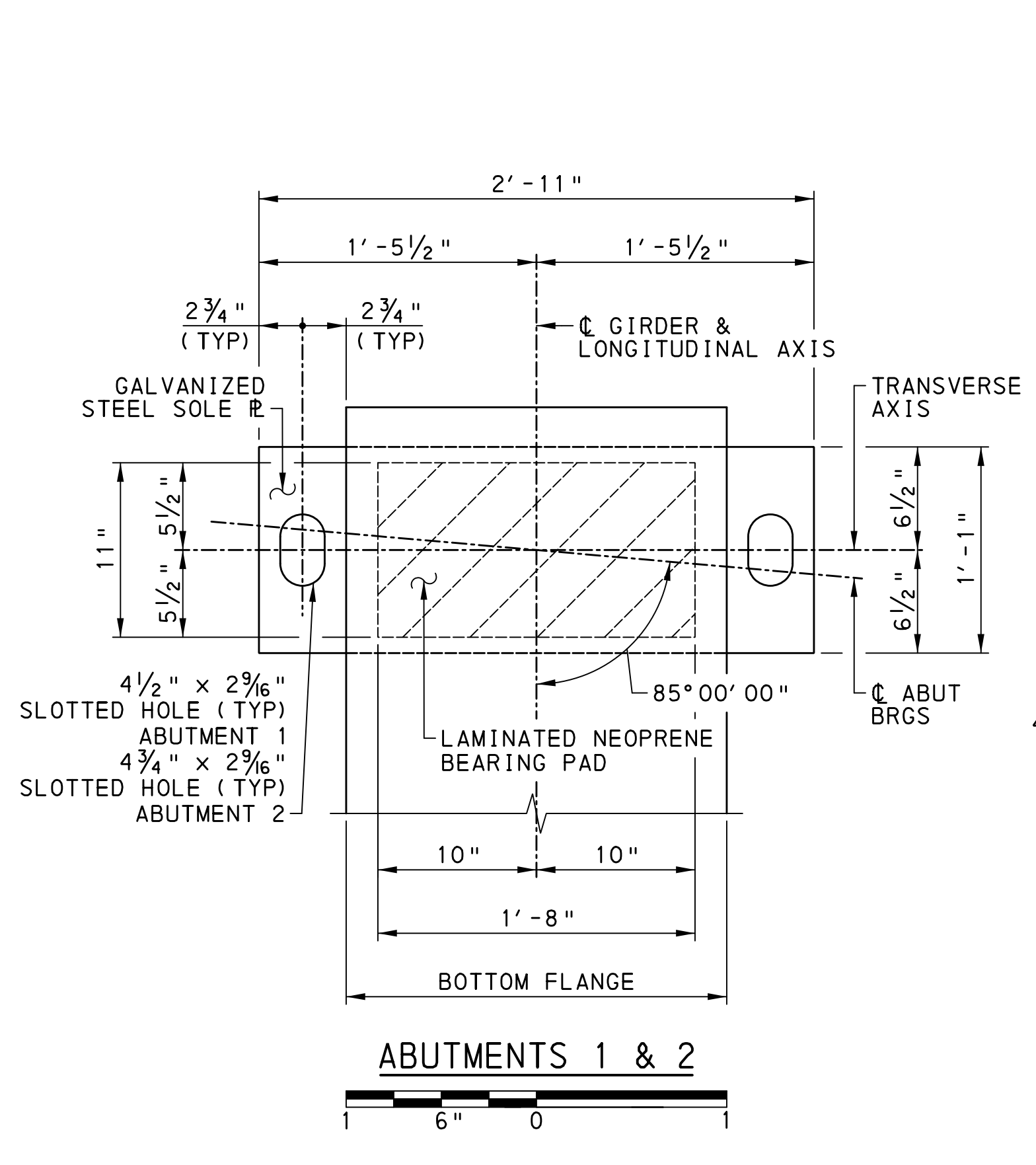


RECOMMENDED 2026.05.15 SHEET 54 OF 97

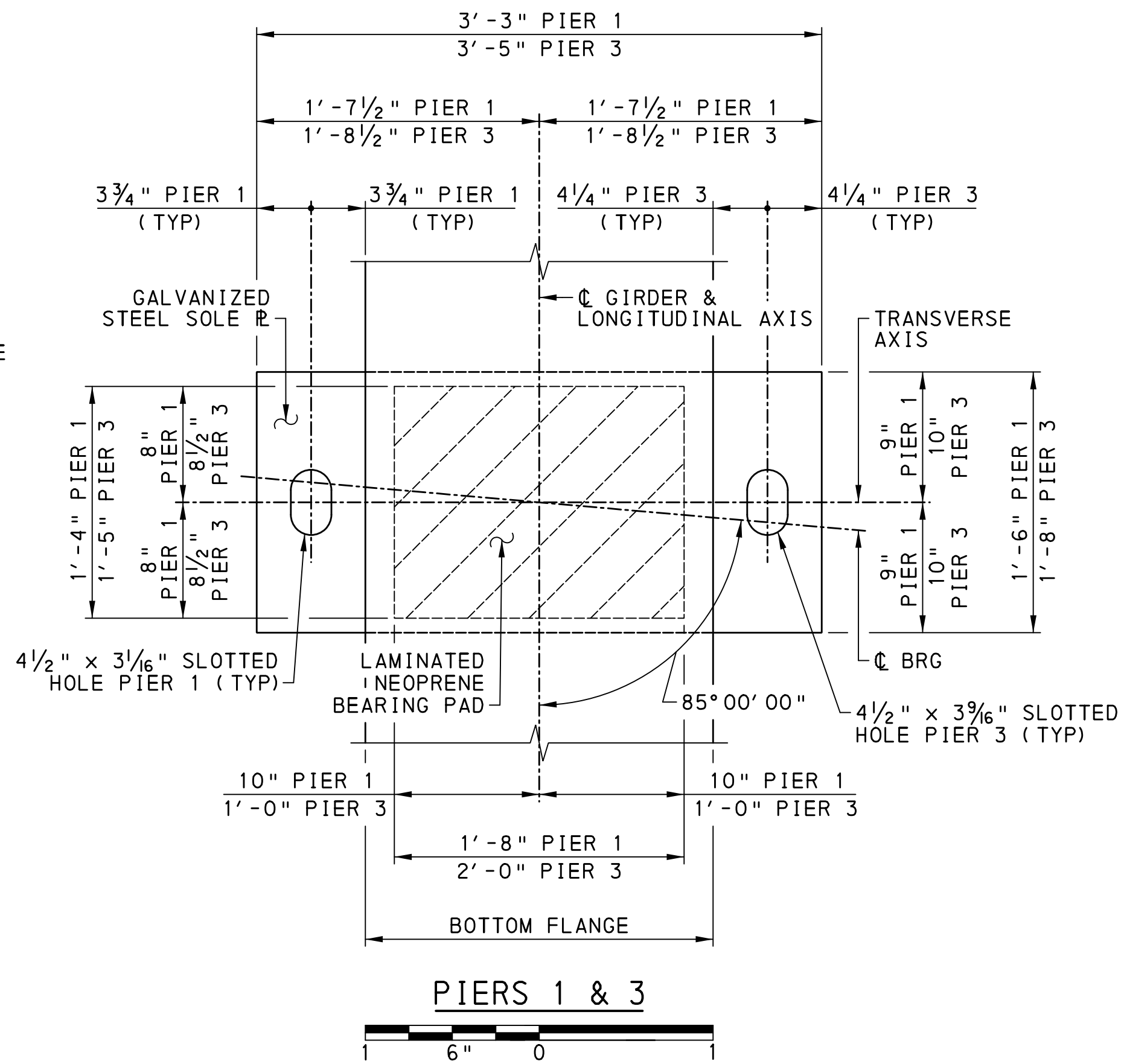
S-42336

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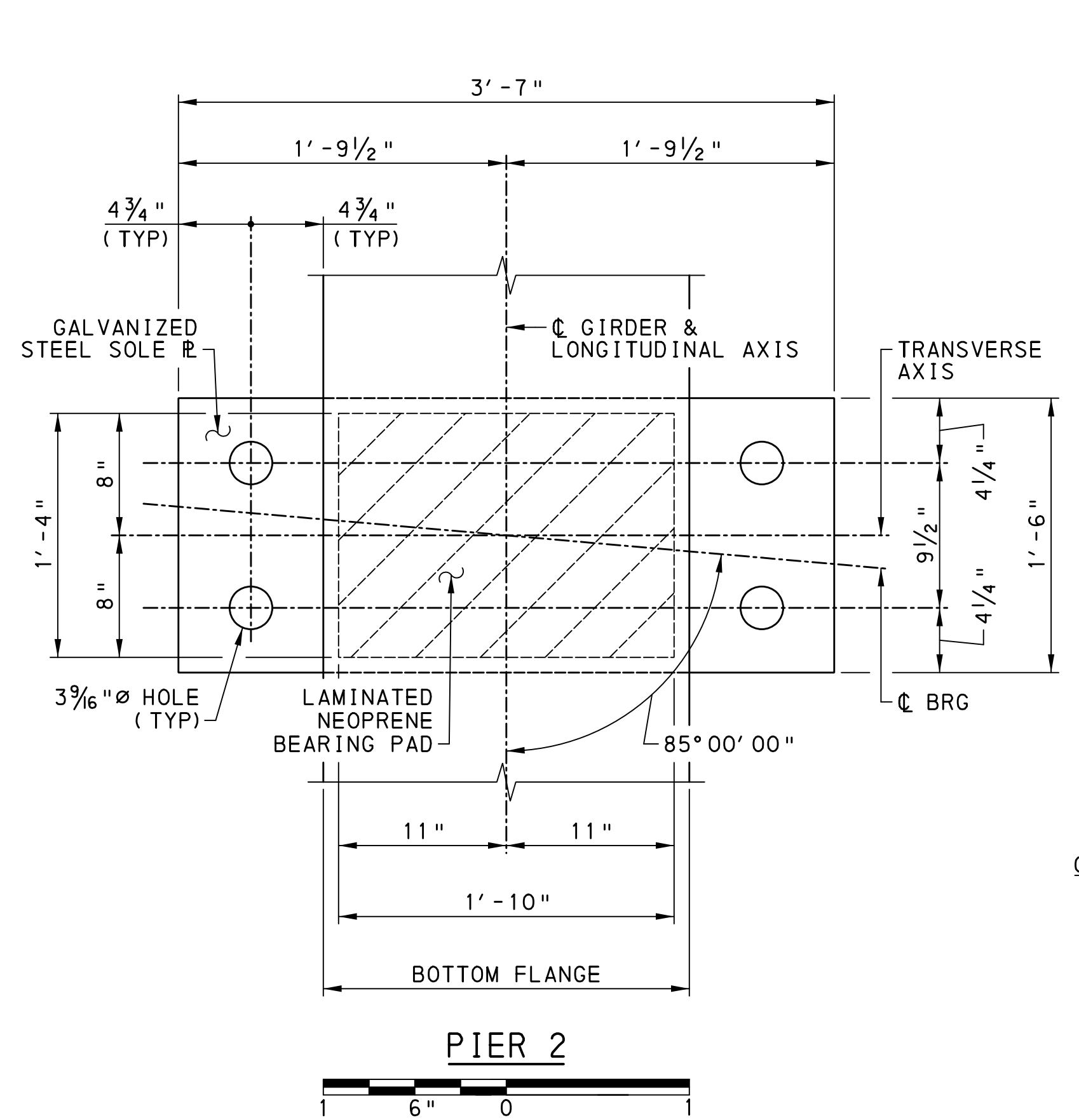
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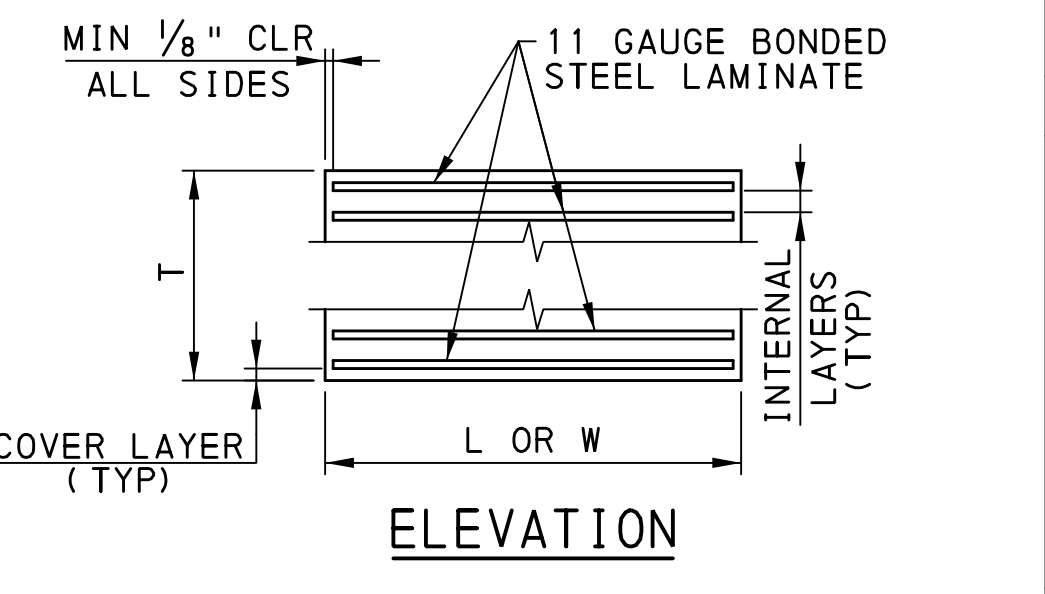
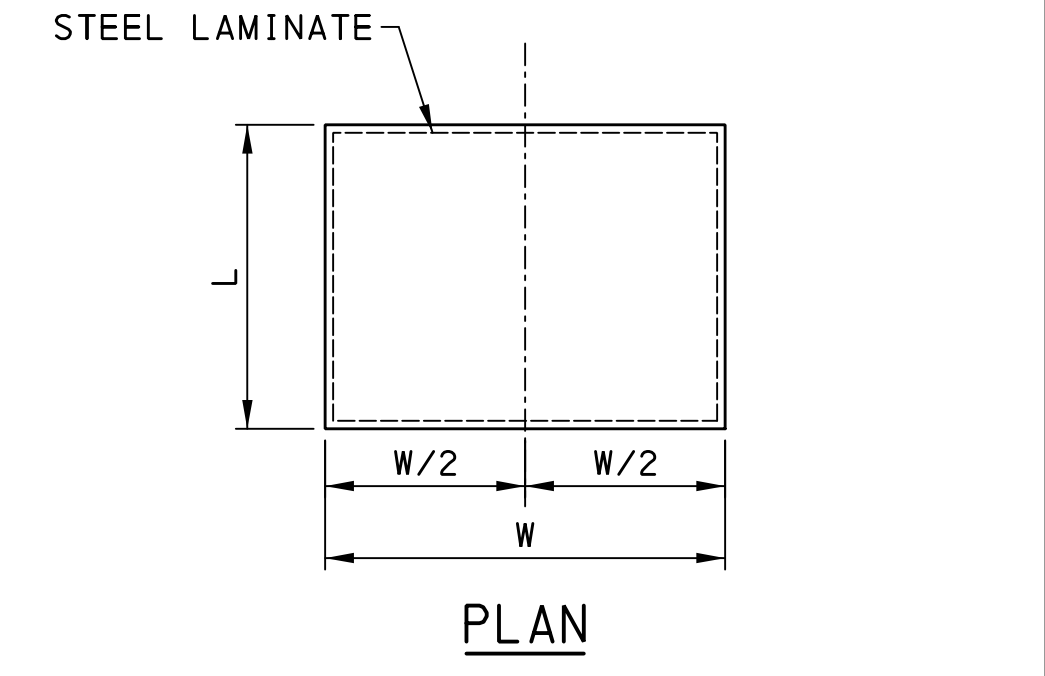
ABUTMENTS 1 & 2



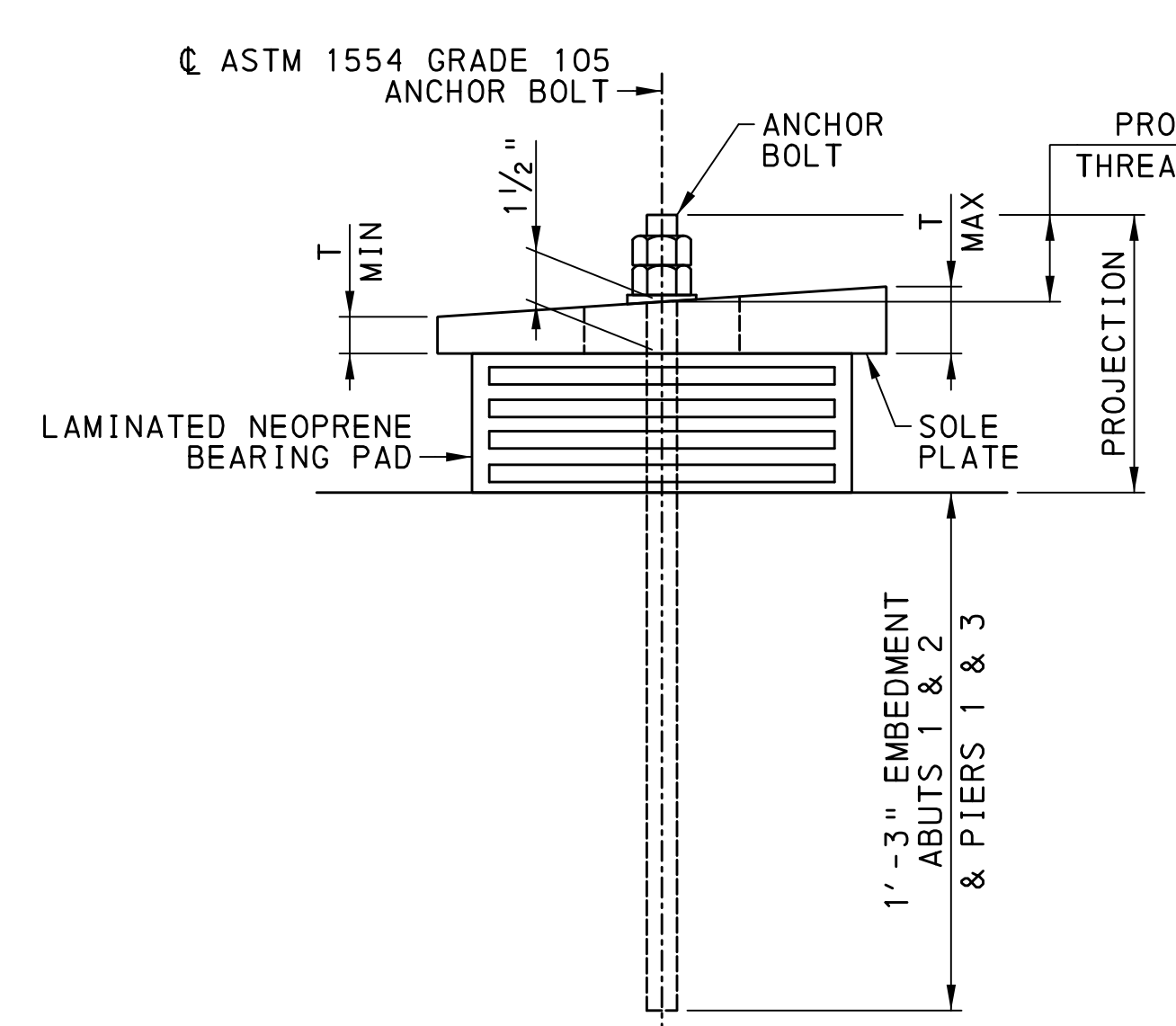
PIERS 1 & 3



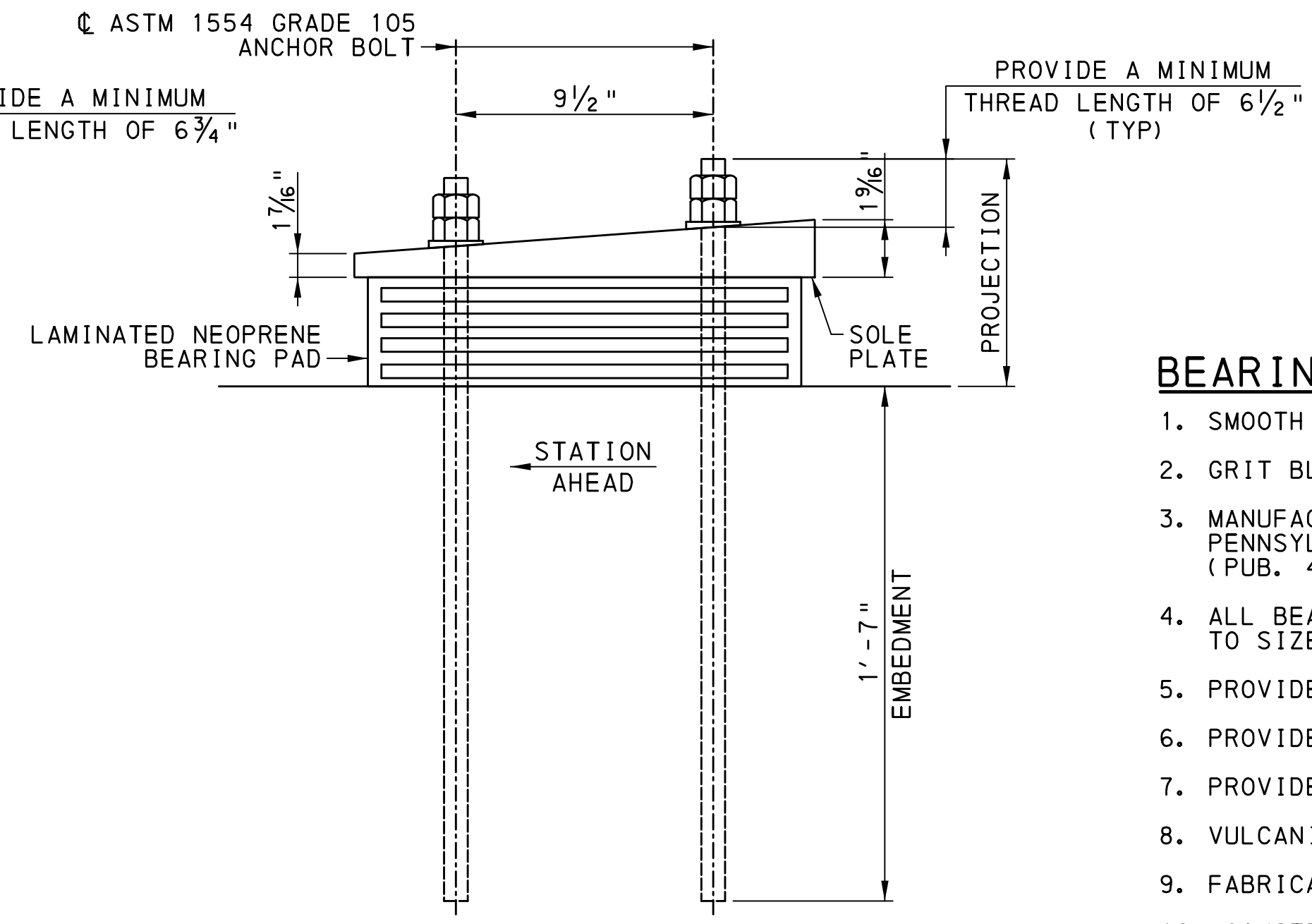
PIER 2



LAMINATED NEOPRENE BEARING PADS
NOT TO SCALE



TYPICAL BEARING ELEVATION
ABUTS 1 & 2 & PIERS 1 & 3
NOT TO SCALE



TYPICAL BEARING ELEVATION
PIER 2
NOT TO SCALE

SOLE PLATE DIMENSIONS		
LOCATION	T MAX	T MIN
ABUT 1	1 15/16"	1 1/16"
PIER 1	1 13/16"	1 3/16"
PIER 2	1 9/16"	1 1/16"
PIER 3	2 7/8"	7/8"
ABUT 2	2"	1"

ANCHOR BOLT				
LOCATION	DIA	NO. PER GIRDER	NO. REQUIRED	PROJECTION
ABUT 1	1 3/4"	2	14	9 1/2"
PIER 1	2 1/4"	2	14	9 1/2"
PIER 2	2 3/4"	4	28	9 5/8"
PIER 3	2 3/4"	2	14	11"
ABUT 2	1 3/4"	2	14	10 1/16"

BEARING PAD NOTES

- SMOOTH CUT AND DEBURR METAL SHIMS.
- GRIT BLAST AND DEGREASE METAL SHIMS.
- MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB. 408) SECTION 1113.02.
- ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
- PROVIDE NEOPRENE 50 +/-5 DUROMETER.
- PROVIDE MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
- PROVIDE INTERNAL SHIMS AS PER ASTM A36 GRADE 36.
- VULCANIZE PATCH PIN GROOVES.
- FABRICATOR MAY USE CONTRACT DRAWINGS TO FABRICATE BEARING PADS.
- CONSTRUCTION TOLERANCE ABOUT TRANSVERSE AXIS OF PAD = 0.00500 RADIANS.
- CONSTRUCTION TOLERANCE ABOUT LONGITUDINAL AXIS OF PAD = 0.00500 RADIANS.
- ELASTOMERIC BEARINGS WERE DESIGNED USING AASHTO LRFD - METHOD B.
- PROVIDE ELASTOMER WITH A SHEAR MODULUS BETWEEN 0.1125 KSI AND 0.175 KSI.

LAMINATED NEOPRENE BEARING PADS						
BEARING LOCATION	NO. OF INTERNAL LAYERS	INTERNAL LAYER THICKNESS	COVER LAYER THICKNESS	NO. OF STEEL LAMINATES	TOTAL BEARING THICK. (T)	NUMBER REQUIRED
ABUT 1	6	3/8"	1/4"	7	3.5872"	7
PIER 1	4	3/8"	1/4"	5	2.5980"	7
PIER 2	3	3/8"	1/4"	4	2.1034"	7
PIER 3	5	3/8"	1/4"	6	3.0926"	7
ABUT 2	8	3/8"	1/4"	9	4.5764"	7



NOTES

- FOR ADDITIONAL BEARING AND ANCHOR BOLT DETAILS AND NOTES, SEE BC-755M.
- PROVIDE ASTM A563 GALVANIZED HEAVY HEX NUTS AND JAM NUTS COMPATIBLE WITH ASTM F1554 ANCHOR BOLTS.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

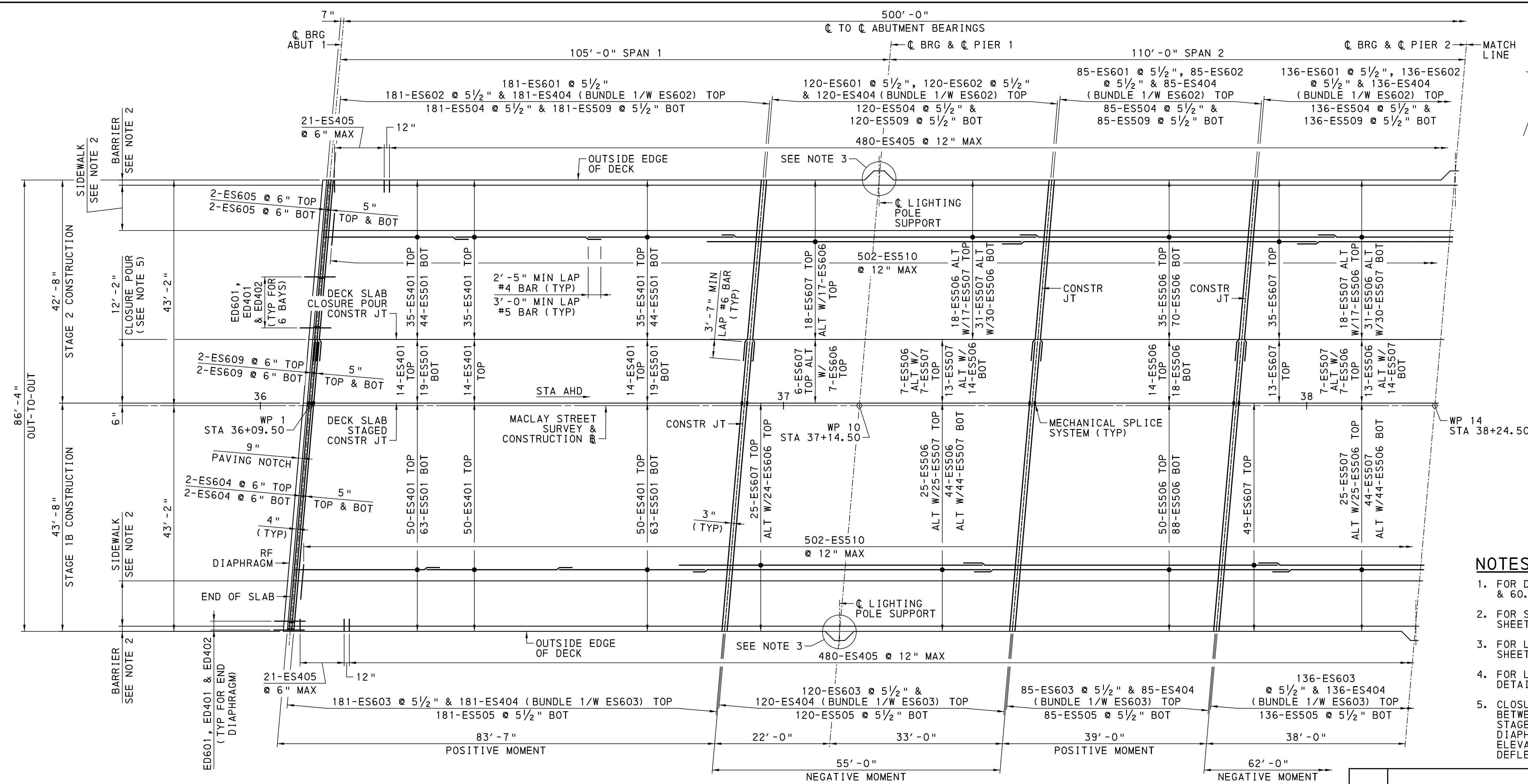
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
BEARING DETAILS

RECOMMENDED 2026.05.15

SHEET 55 OF 97

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DECK SLAB PLAN
 5 0 5 10 15 20

NOTES

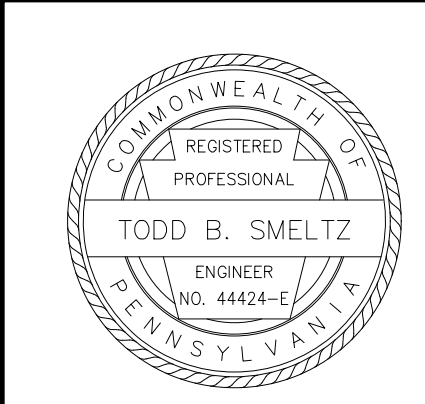
1. FOR DECK SLAB SECTIONS, SEE SHEETS 59 & 60.
2. FOR SIDEWALK AND BARRIER PLANS, SEE SHEETS 64, 65 & 66.
3. FOR LIGHTING POLE ANCHORAGE PLAN, SEE SHEET 65.
4. FOR LONGITUDINAL REINFORCEMENT STAGGER DETAIL, SEE SHEETS 59 & 60.
5. CLOSURE POUR REINFORCEMENT AND DECK PANS BETWEEN GIRDERS 3 & 4 TO BE PLACED AFTER STAGE 2 DECK POUR TO ALLOW FOR TORQUING DIAPHRAGM BOLTS AND SETTING DECK PAN ELEVATIONS THAT ACCOUNT FOR STAGE 2 DECK DEFLECTION.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

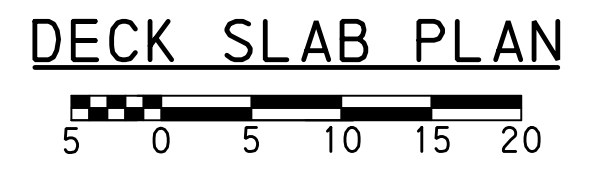
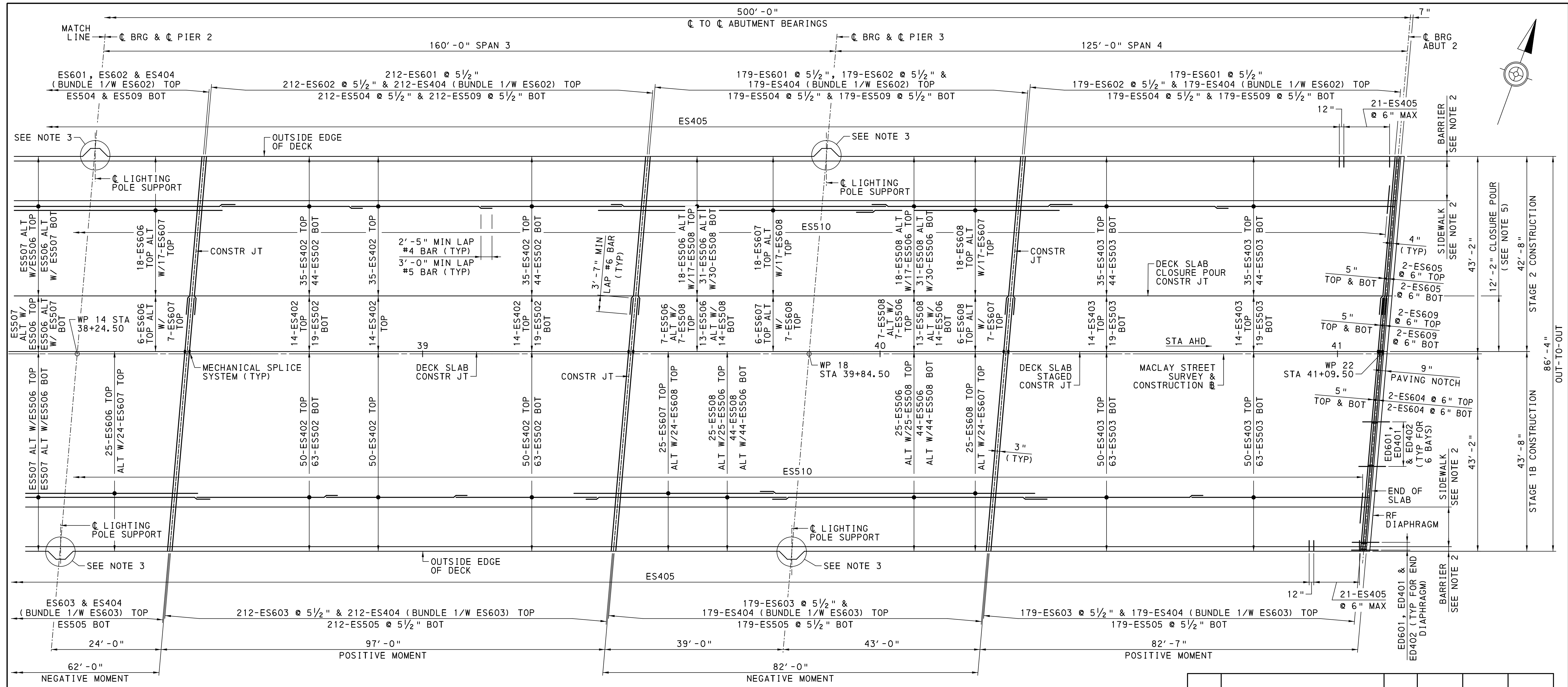
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
DECK SLAB PLAN - 1



RECOMMENDED 2026.05.15

SHEET 56 OF 97

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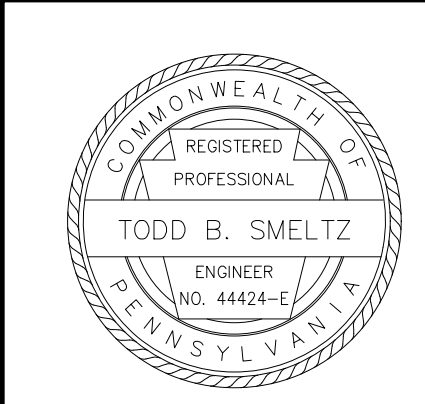
- NOTES**
- FOR DECK SLAB SECTION, SEE SHEETS 59 & 60.
 - FOR SIDEWALK AND BARRIER PLAN, SEE SHEETS 64, 65 & 66.
 - FOR LIGHTING POLE ANCHORAGE PLAN, SEE SHEET 65.
 - FOR LONGITUDINAL REINFORCEMENT STAGGER DETAIL, SEE SHEETS 59 & 60.
 - CLOSURE POUR REINFORCEMENT AND DECK PAN BETWEEN GIRDERS 3 & 4 TO BE PLACED AFTER STAGE 2 DECK POUR TO ALLOW FOR TORQUING DIAPHRAGM BOLTS AND SETTING DECK PAN ELEVATIONS THAT ACCOUNT FOR STAGE 2 DECK DEFLECTION.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

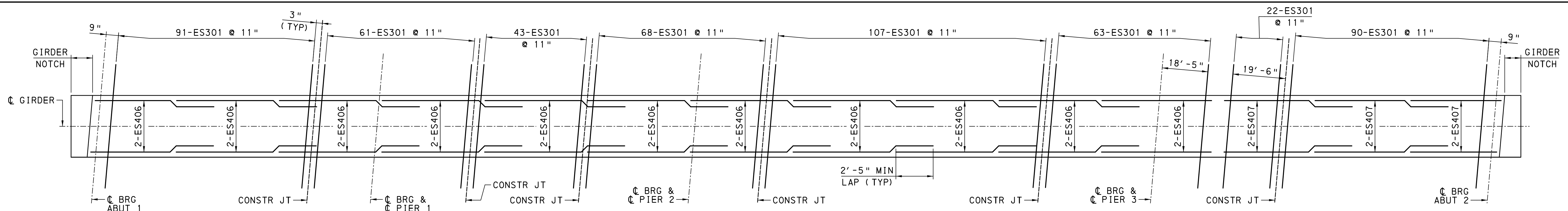
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 DECK SLAB PLAN - 2

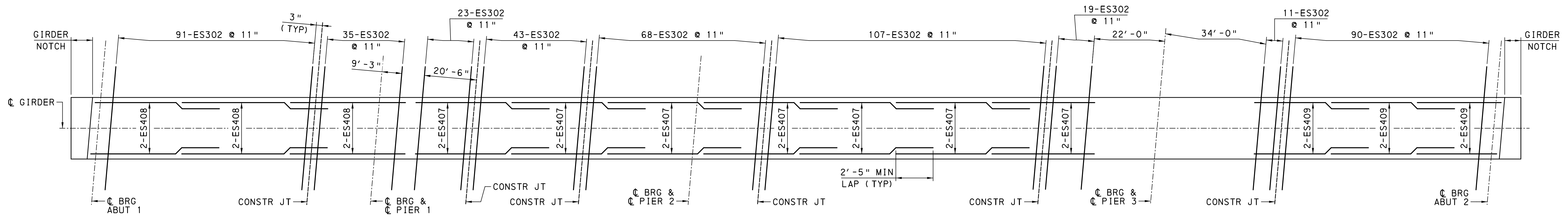


RECOMMENDED 2026.05.15

SHEET 57 OF 97

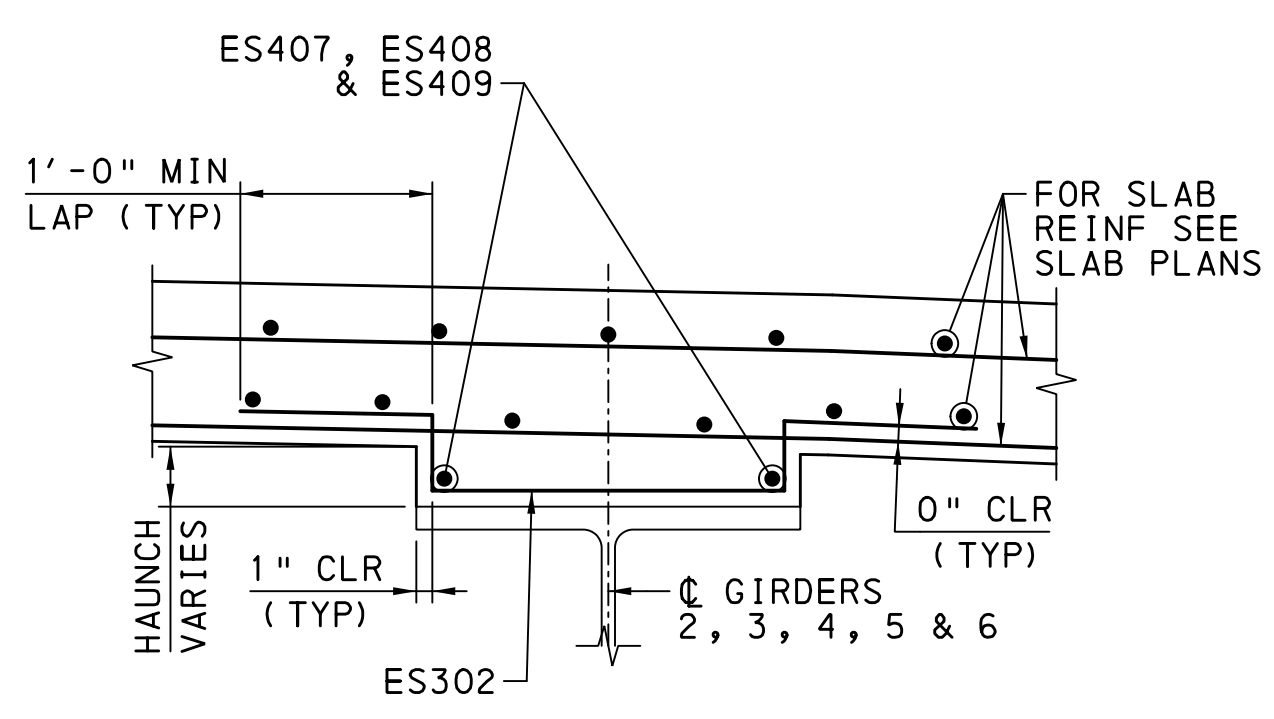


GIRDERS 1 & 7

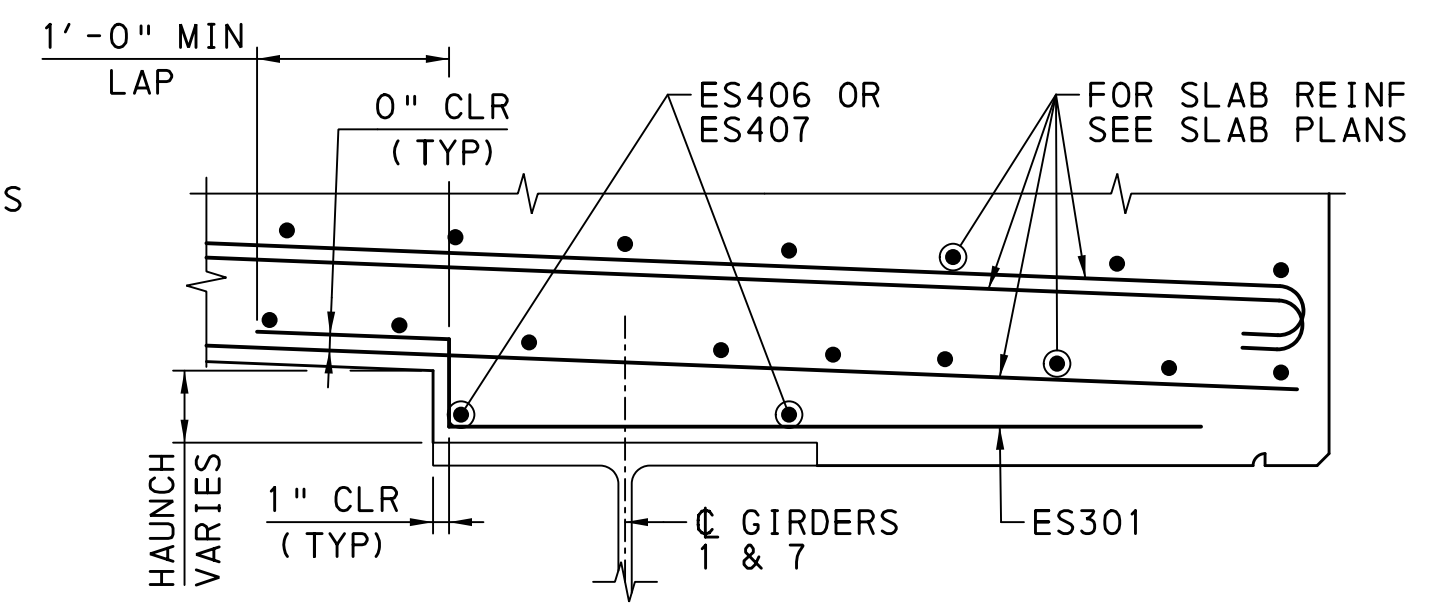


GIRDERS 2, 3, 4, 5 & 6

HAUNCH PLAN
NOT TO SCALE



HAUNCH SECTION
GIRDERS 2, 3, 4, 5 & 6



HAUNCH SECTION
GIRDERS 1 & 7



NOTES

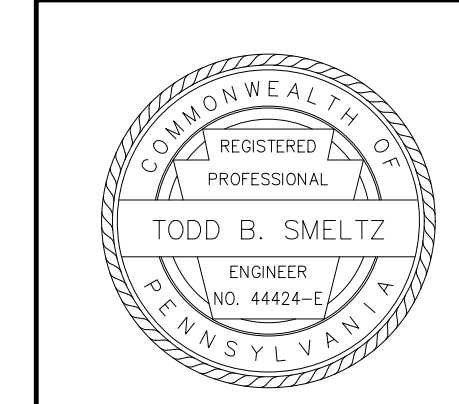
1. THE HAUNCH REINFORCEMENT QUANTITY SHOWN ON THE REINFORCEMENT SCHEDULE PROVIDES THE AMOUNT NECESSARY TO COVER THE LIMITS SHOWN ON THIS SHEET. PROVIDE ADDITIONAL HAUNCH REINFORCEMENT IN OTHER REGIONS ALONG THE LENGTH OF THE GIRDER WHERE ACTUAL HAUNCHES EXCEED 3" ANYWHERE ACROSS THE WIDTH OF THE HAUNCH.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

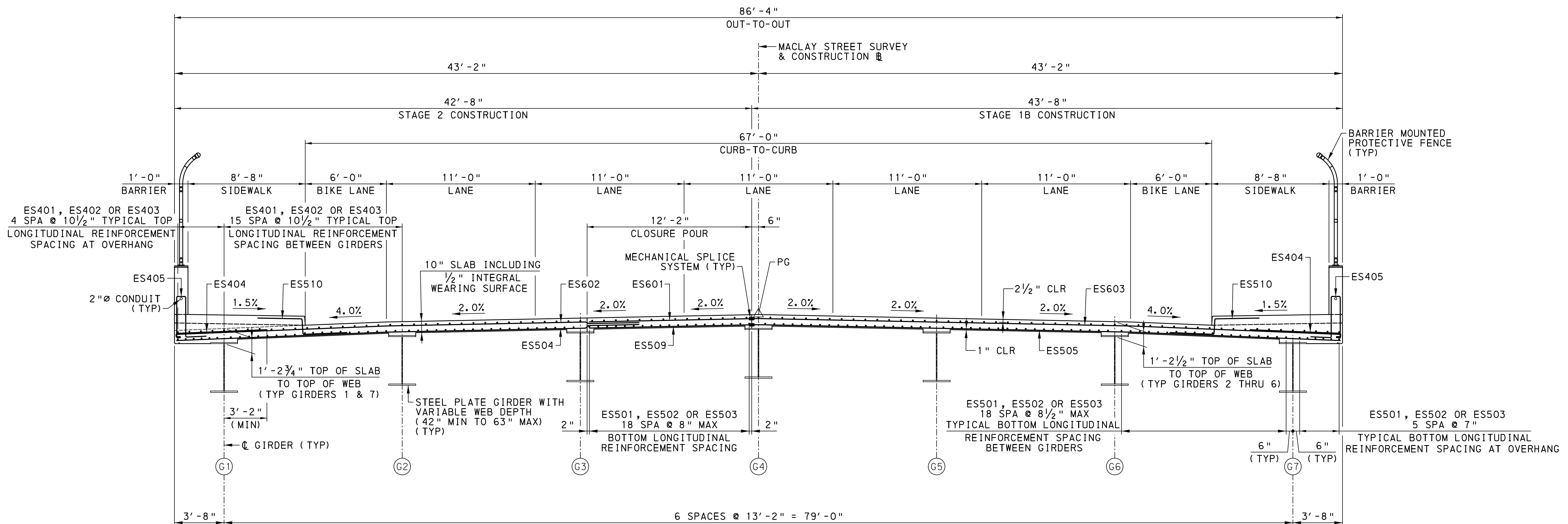
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
HAUNCH DETAILS



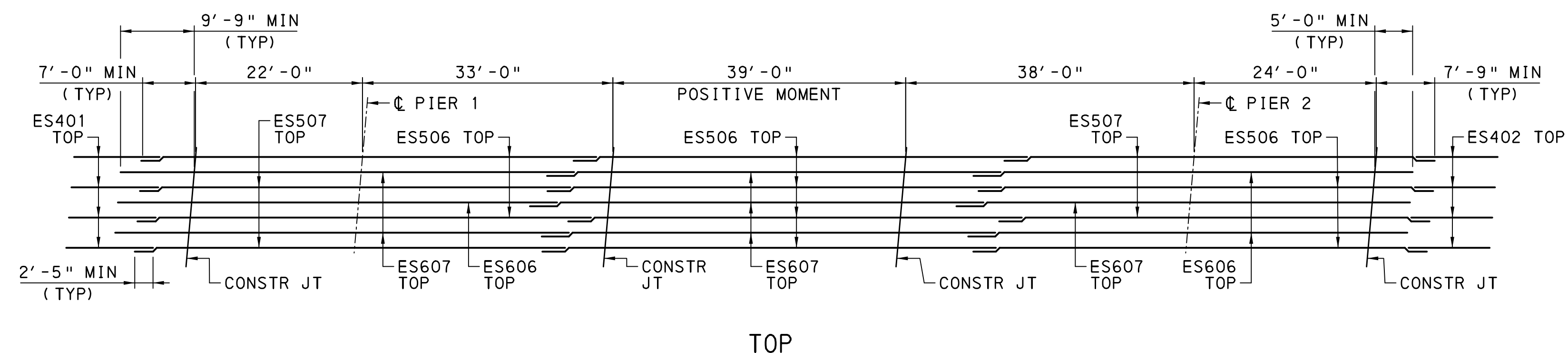
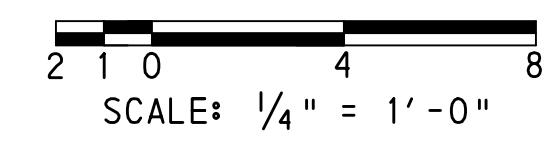
RECOMMENDED 2026.05.15 SHEET 58 OF 97

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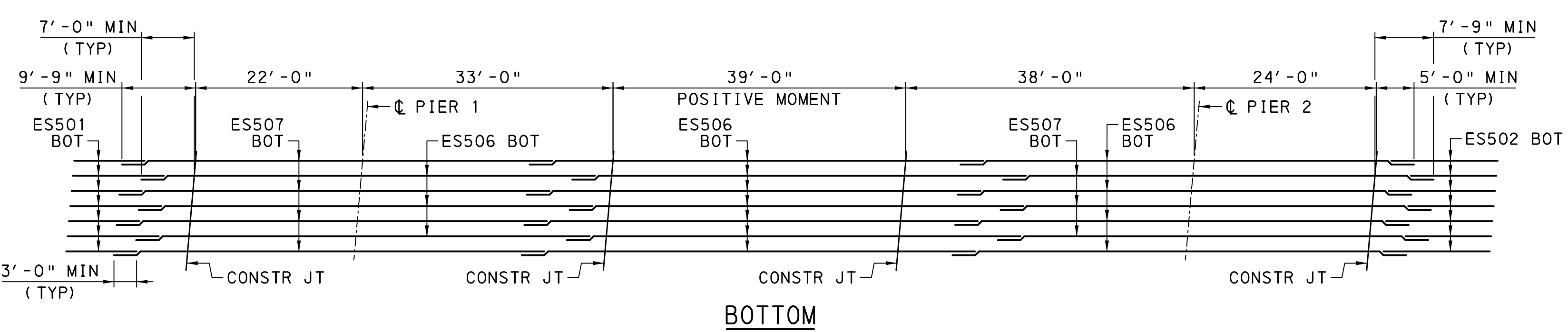
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**DECK SLAB SECTION
POSITIVE MOMENT REGION**



**LONGITUDINAL REINFORCEMENT STAGGER
DETAIL AT PIER 1
NOT TO SCALE**



**LONGITUDINAL REINFORCEMENT STAGGER
DETAIL AT PIER 2
NOT TO SCALE**

NOTES

- 1. FOR DECK SLAB SECTION NEGATIVE MOMENT REGION, SEE SHEET 60.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION**

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
**4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
DECK SLAB SECTION - 1**

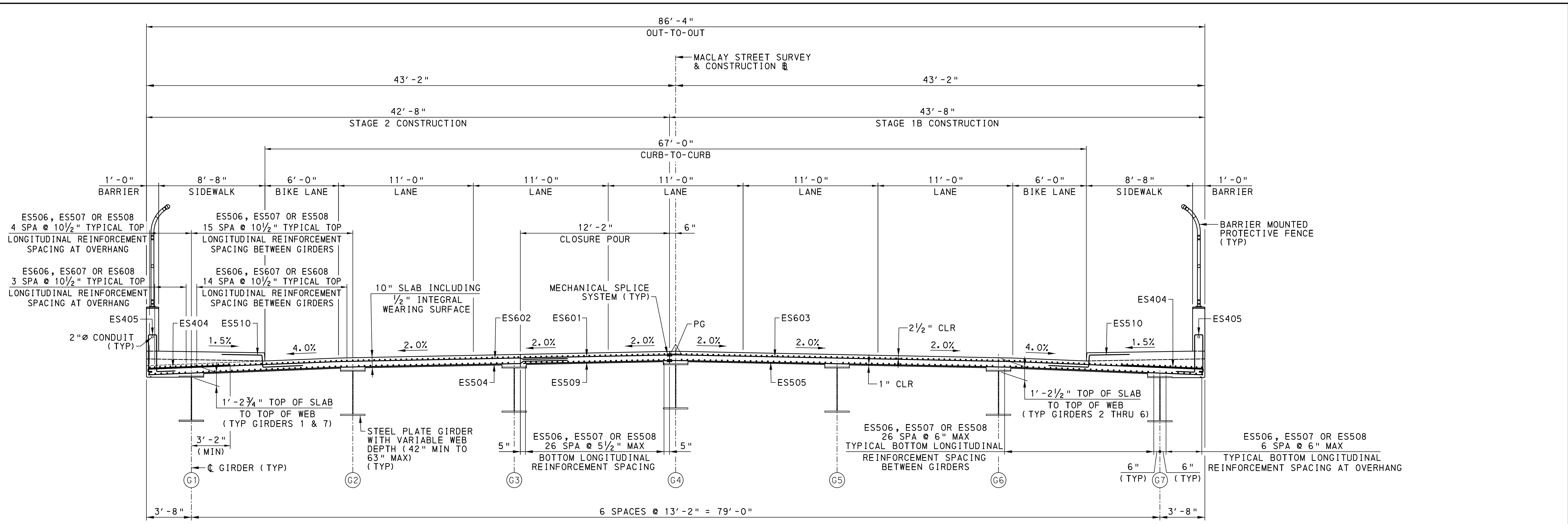


RECOMMENDED 2026.05.15

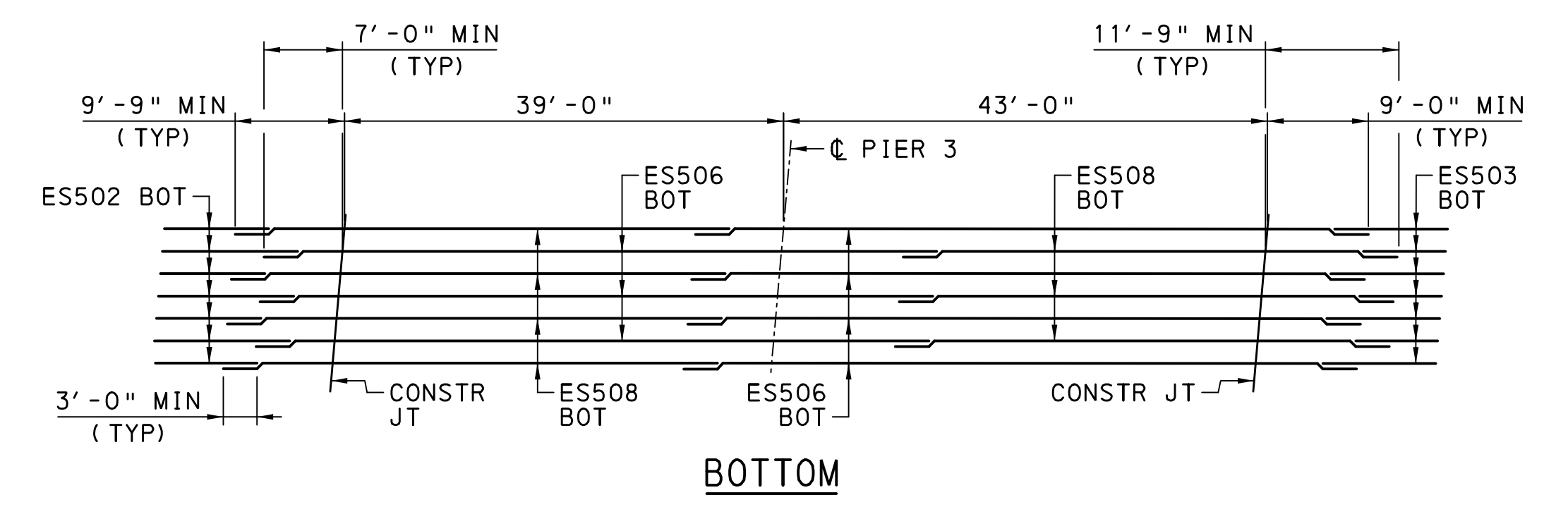
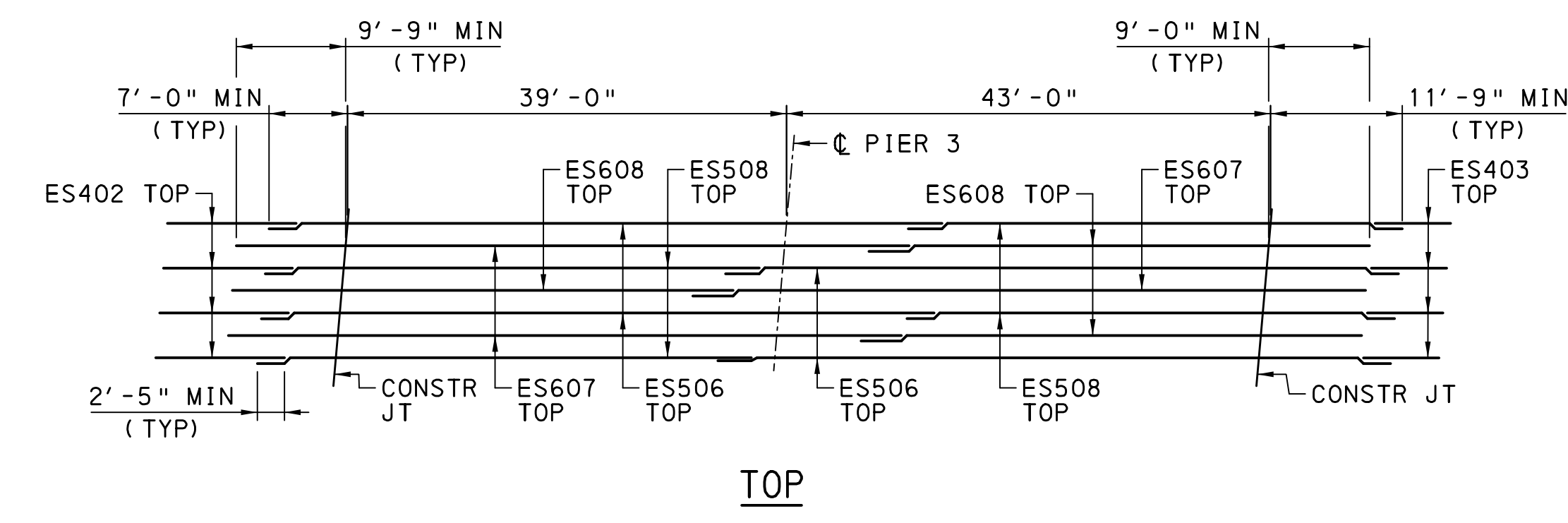
SHEET 59 OF 97

S-42336

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**DECK SLAB SECTION
NEGATIVE MOMENT REGION**



**LONGITUDINAL REINFORCEMENT STAGGER
DETAIL AT PIER 3
NOT TO SCALE**

NOTES

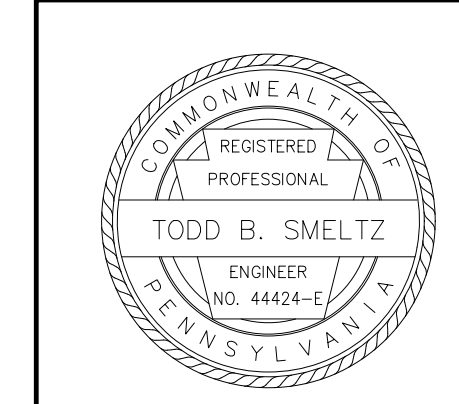
- 1. FOR DECK SLAB SECTION POSITIVE MOMENT REGION, SEE SHEET 59.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

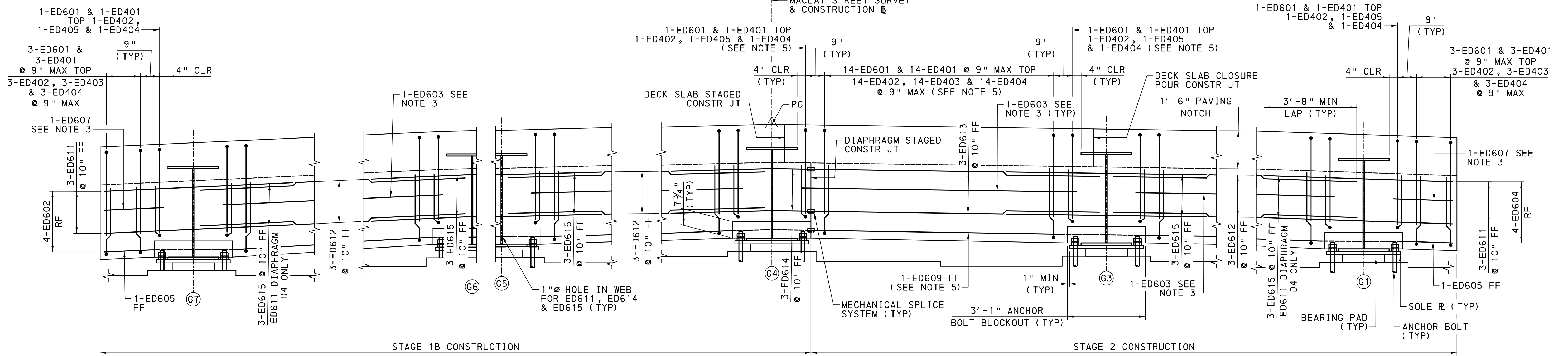
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
DECK SLAB SECTION - 2



RECOMMENDED 2026.05.15

FILENAME: N:\57839-01-MacLay St\Drawings\Structures\Rail Road Bridge\Final\3022005-DS-02.dgn
 DATE: 5/14/2026 TIME: 1:36:12 PM



TYPICAL DIAPHRAGM D2

TYPICAL DIAPHRAGM D4
TYPICAL DIAPHRAGM D5
(TYPICAL FOR 2)

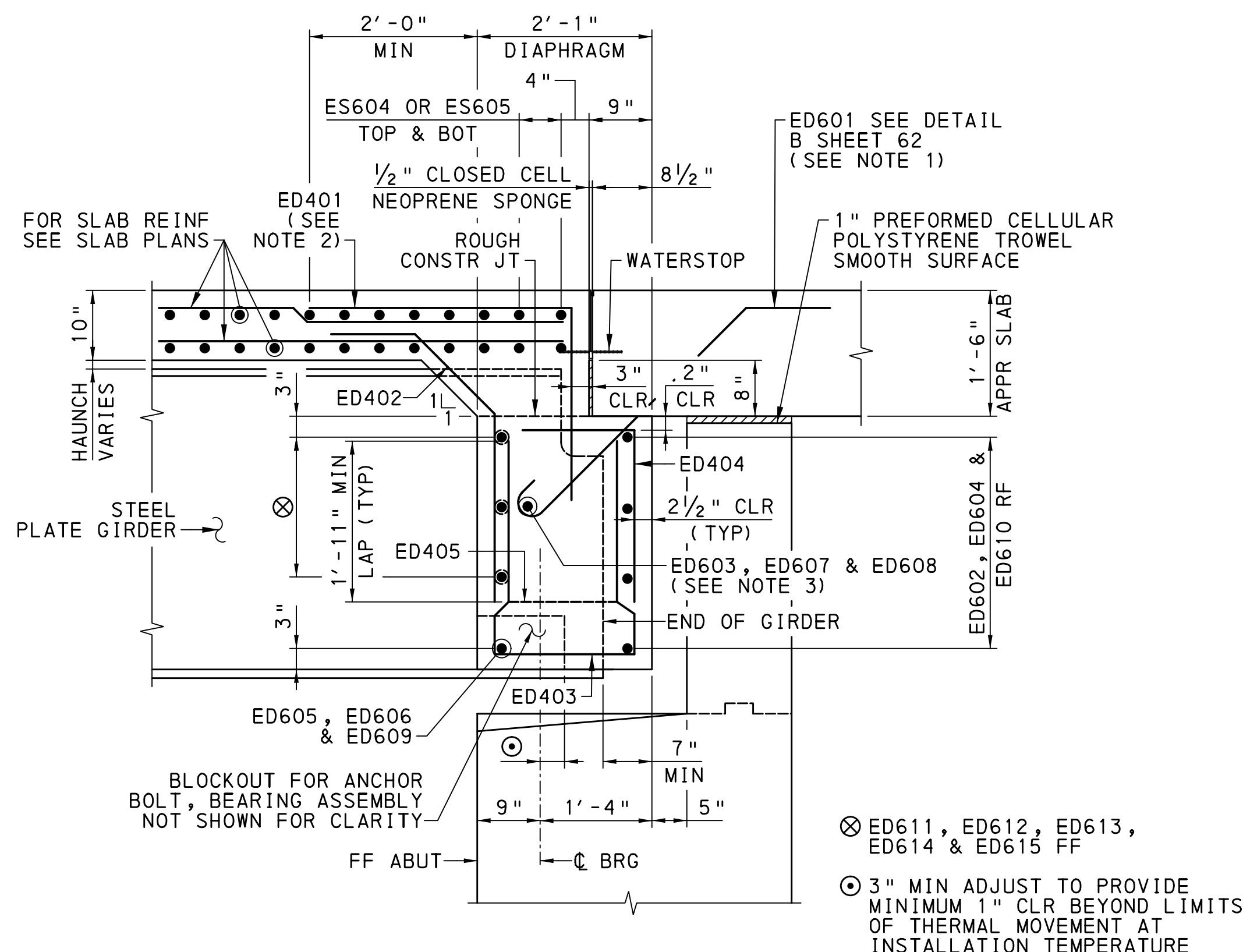
TYPICAL DIAPHRAGM D7

TYPICAL DIAPHRAGM D6

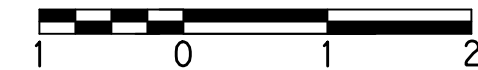
TYPICAL DIAPHRAGM D4
TYPICAL DIAPHRAGM D5
(TYPICAL FOR 2)

TYPICAL DIAPHRAGM D3

ABUTMENT 1 FULL DEPTH
END DIAPHRAGM



SECTION DIAPHRAGM
D2, D3, D4, D5, D6, D7 & D8



NOTES

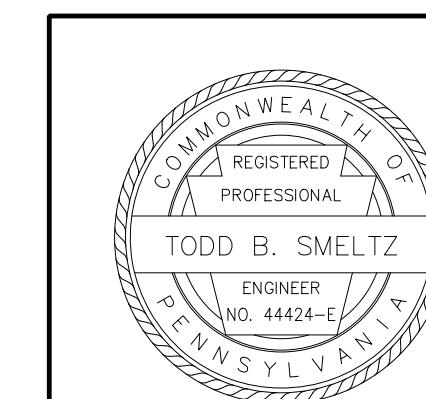
1. PLACED PARALLEL TO GIRDERS AND SPACED BETWEEN GIRDER WEBS.
2. PLACE TOP LEG OF ED401 BARS PARALLEL TO AND ON THE SAME PLANE AS ES401 AT ABUTMENT 1 AND ES403 AT ABUTMENT 2.
3. PLACED INSIDE THE HOOK OF THE ED601 BAR.
4. FOR DIAPHRAGM BLOCKOUT PLAN SEE SHEET 62.
5. TYPICAL FOR DIAPHRAGM D4, D5, D6 & D7.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

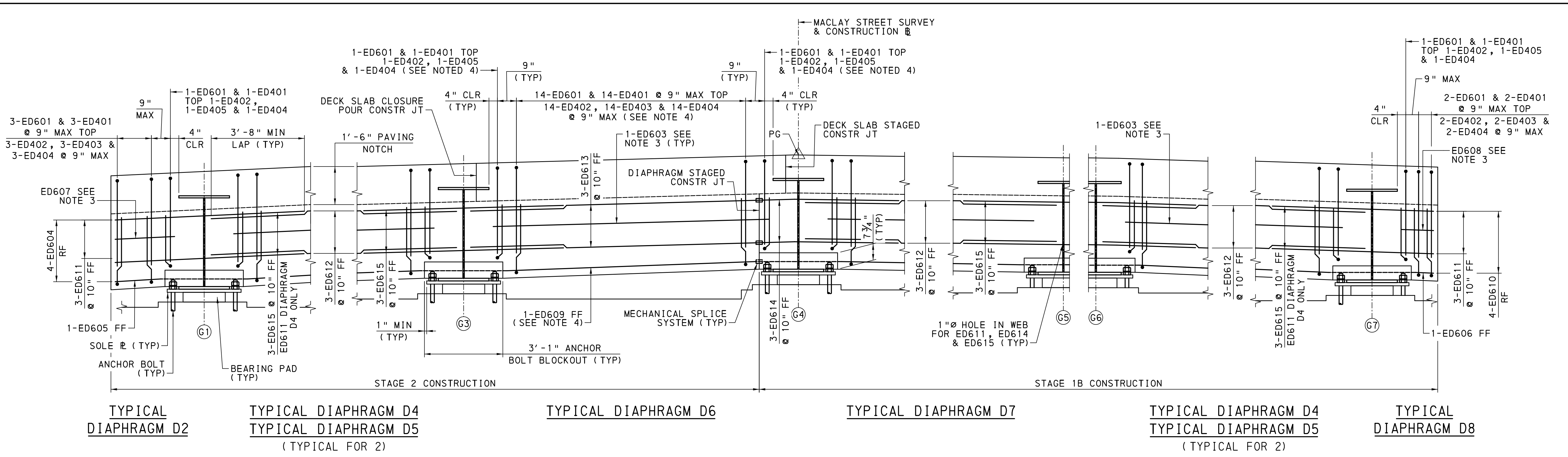
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 1 END DIAPHRAGM DETAILS



RECOMMENDED 2026.05.15

SHEET 61 OF 97

S-42336



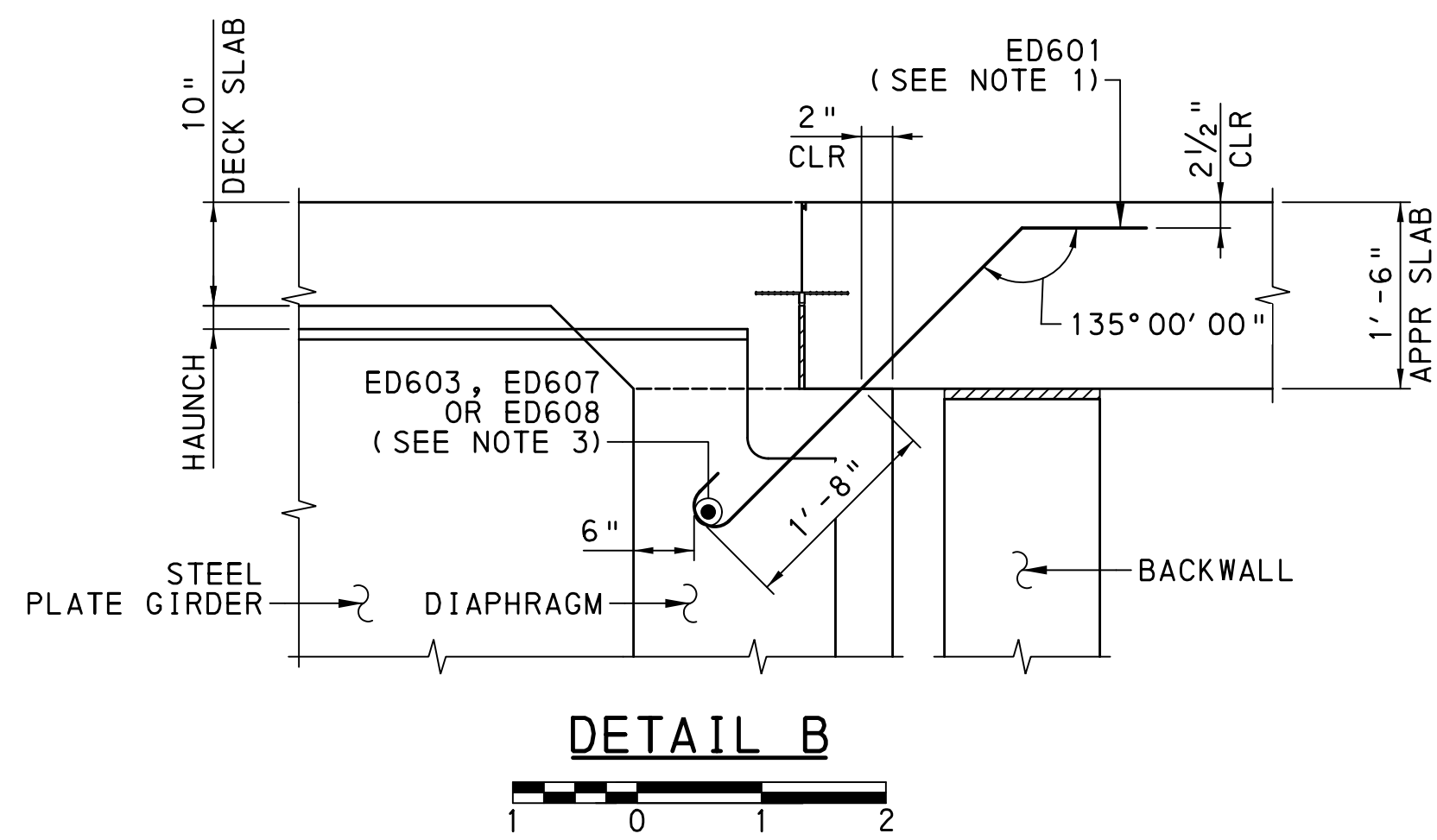
**ABUTMENT 2 FULL DEPTH
END DIAPHRAGM**



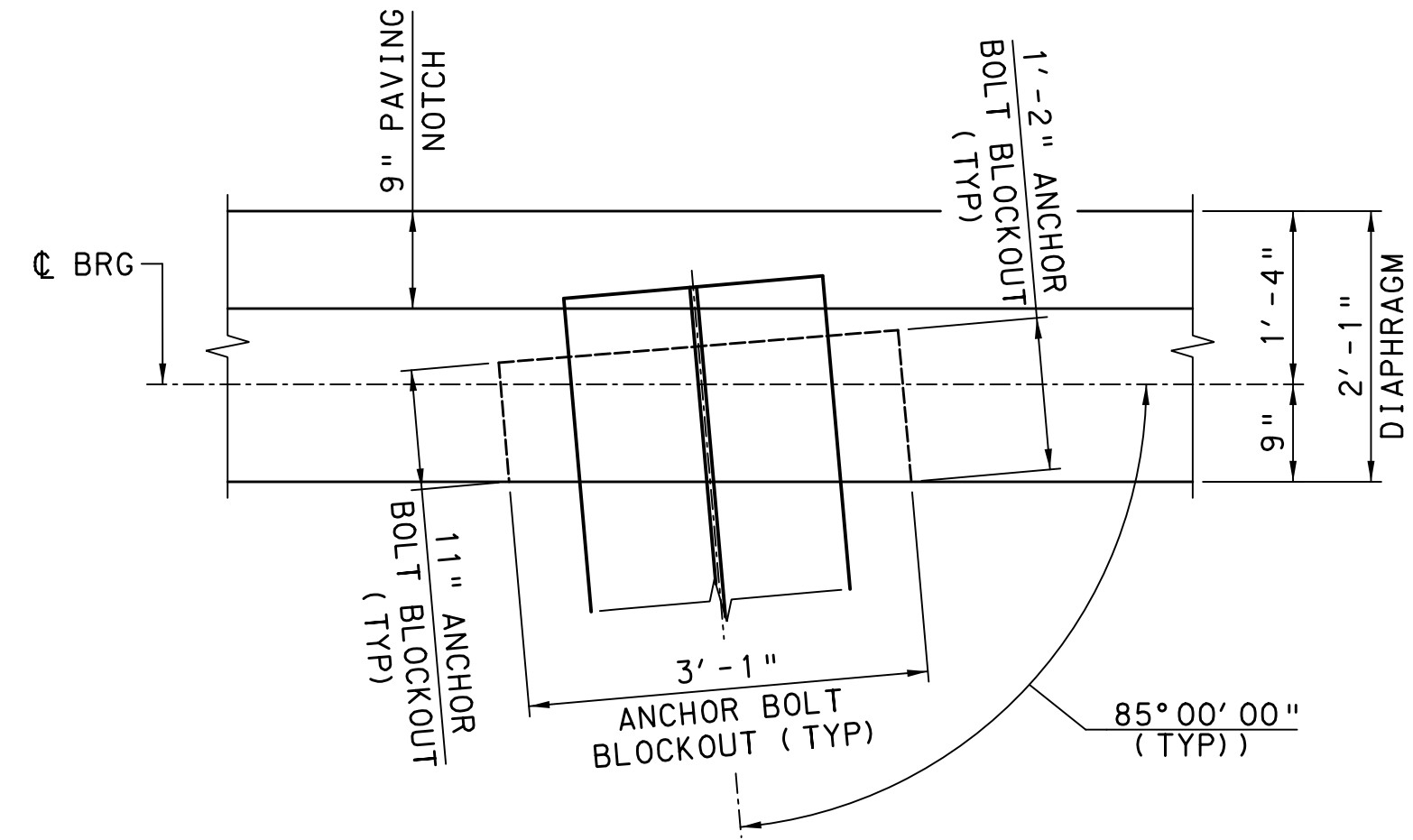
NOTES

1. PLACED PARALLEL TO GIRDERS AND SPACED BETWEEN GIRDER WEBS.
2. PLACE TOP LEG OF ED401 PARALLEL TO AND ON THE SAME PLANE AS ES401 AT ABUTMENT 1 AND ES403 AT ABUTMENT 2.
3. PLACED INSIDE THE HOOK OF THE ED601 BAR.
4. TYPICAL FOR DIAPHRAGM D4, D5, D6 & D7.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					



DETAIL B



TYPICAL DIAPHRAGM BLOCKOUT PLAN



S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
ABUTMENT 2 END DIAPHRAGM DETAILS



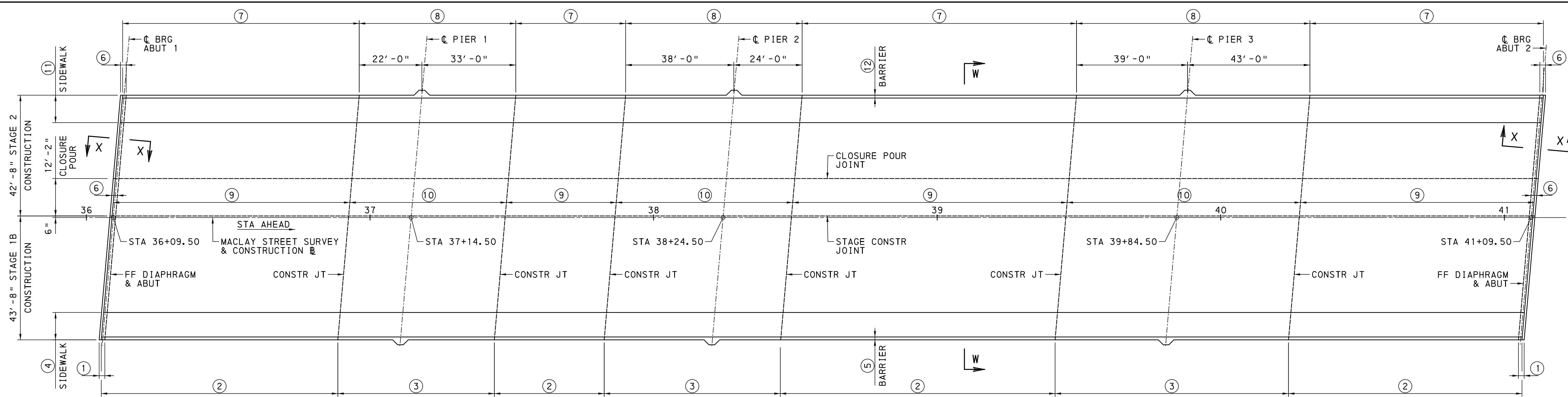
RECOMMENDED 2026.05.15

SHEET 62 OF 97

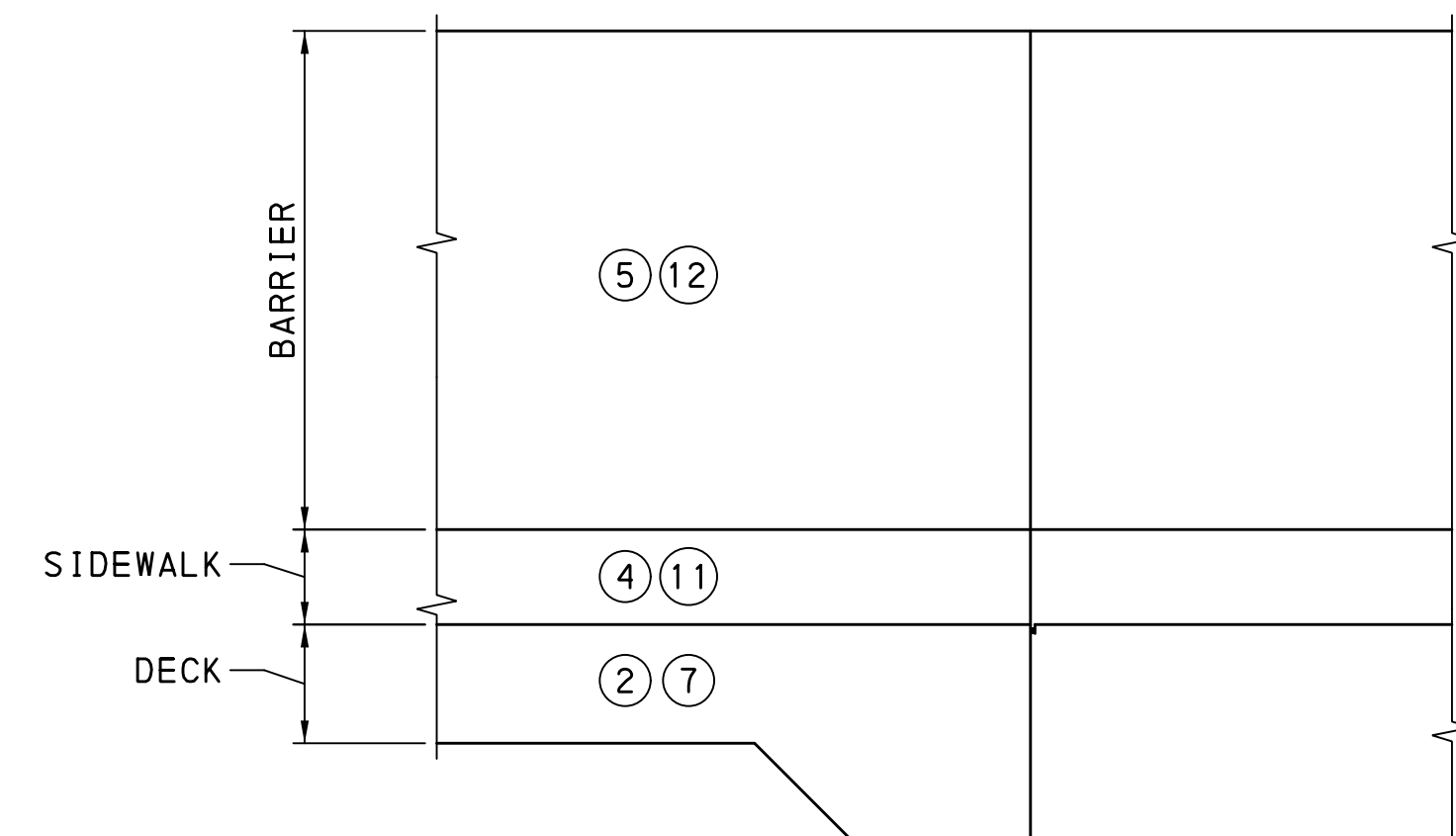
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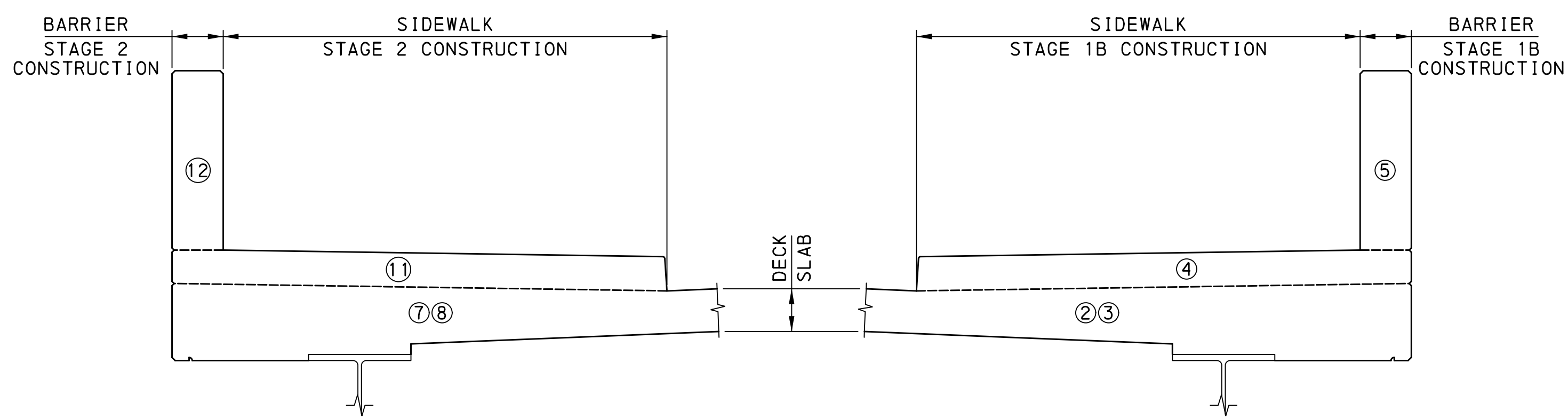
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DECK SLAB PLACEMENT SEQUENCE PLAN
NOT TO SCALE



SECTION X-X
NOT TO SCALE



SECTION W-W
NOT TO SCALE

PLACEMENT SEQUENCE:
STAGE 1B CONSTRUCTION

1. CAST PLACEMENT ① CONCRETE END DIAPHRAGMS.
2. CAST PLACEMENT ② POSITIVE MOMENT REGIONS FOR ALL SPANS.
3. CAST PLACEMENT ③ NEGATIVE MOMENT REGIONS FOR ALL SPANS.
4. CAST PLACEMENT ④ ENTIRE LENGTH OF RIGHT SIDEWALK. CAST SIDEWALK IN POSITIVE MOMENT REGIONS, THEN NEGATIVE MOMENT REGIONS, UNLESS CONTINUOUS CASTING CAN BE MAINTAINED.
5. CAST PLACEMENT ⑤ ENTIRE LENGTH OF RIGHT BARRIERS. CAST BARRIER IN POSITIVE MOMENT REGIONS, THEN NEGATIVE MOMENT REGIONS, UNLESS CONTINUOUS CASTING CAN BE MAINTAINED.

PLACEMENT SEQUENCE:
STAGE 2 CONSTRUCTION

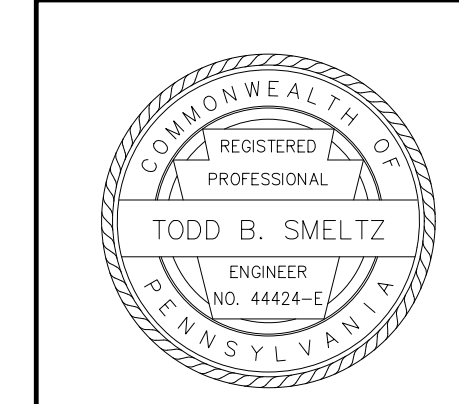
6. CAST PLACEMENT ⑥ CONCRETE END DIAPHRAGMS.
7. CAST PLACEMENT ⑦ POSITIVE MOMENT REGIONS FOR ALL SPANS.
8. CAST PLACEMENT ⑧ NEGATIVE MOMENT REGIONS FOR ALL SPANS.
9. WAIT A MINIMUM OF 48 HOURS AFTER PLACEMENT ⑧ BEFORE CASTING PLACEMENT ⑨ SURVEY TOP OF GIRDER 4 PRIOR TO PLACEMENT OF CLOSURE POUR DECK PANS.
10. CAST PLACEMENT ⑨ CLOSURE POUR POSITIVE MOMENT REGIONS FOR ALL SPANS.
11. CAST PLACEMENT ⑩ CLOSURE POUR NEGATIVE MOMENT REGIONS FOR ALL SPANS.
12. CAST PLACEMENT ⑪ ENTIRE LENGTH OF LEFT SIDEWALK. CAST SIDEWALK IN POSITIVE MOMENT REGIONS, THEN NEGATIVE MOMENT REGIONS, UNLESS CONTINUOUS CASTING CAN BE MAINTAINED.
13. CAST PLACEMENT ⑫ ENTIRE LENGTH OF LEFT BARRIERS. CAST BARRIER IN POSITIVE MOMENT REGIONS, THEN NEGATIVE MOMENT REGIONS, UNLESS CONTINUOUS CASTING CAN BE MAINTAINED.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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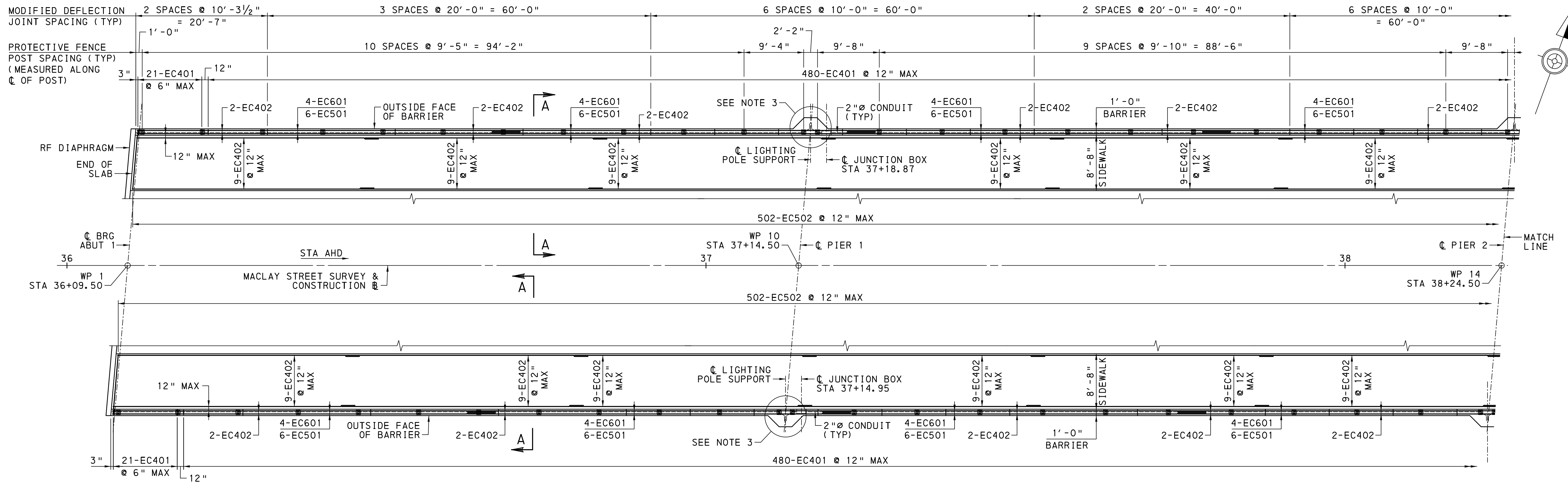
DAUPHIN COUNTY
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 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 DECK CONCRETE PLACEMENT SEQUENCE



RECOMMENDED 2026.05.15

SHEET 63 OF 97

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SIDEWALK & BARRIER PLAN 1



NOTES

1. FOR DECK SLAB PLANS, SEE SHEETS 56 & 57.
2. FOR DECK SLAB SECTION, SEE SHEETS 59 & 60.
3. FOR LIGHTING POLE ANCHORAGE PLAN, SEE SHEET 65.
4. LOCATE JUNCTION BOX ON SIDEWALK SIDE OF BARRIER AND PROVIDE TAMPER RESISTANT SCREWS.
5. FOR ADDITIONAL ELECTRICAL DETAILS, SEE BC-721M.
6. FOR MODIFIED DEFLECTION JOINT DETAILS, SEE BC-752M.
7. FOR DRIP NOTCH DETAIL, SEE BC-775M.
8. FOR CONSTRUCTION JOINT AND V-NOTCH DETAILS, SEE BC-752M.

TYPICAL BARRIER LAP LENGTHS

- #5 BAR - 3'-7"
- #6 BAR - 4'-4"

TYPICAL SIDEWALK LAP LENGTHS

- #4 BAR - 2'-1"

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

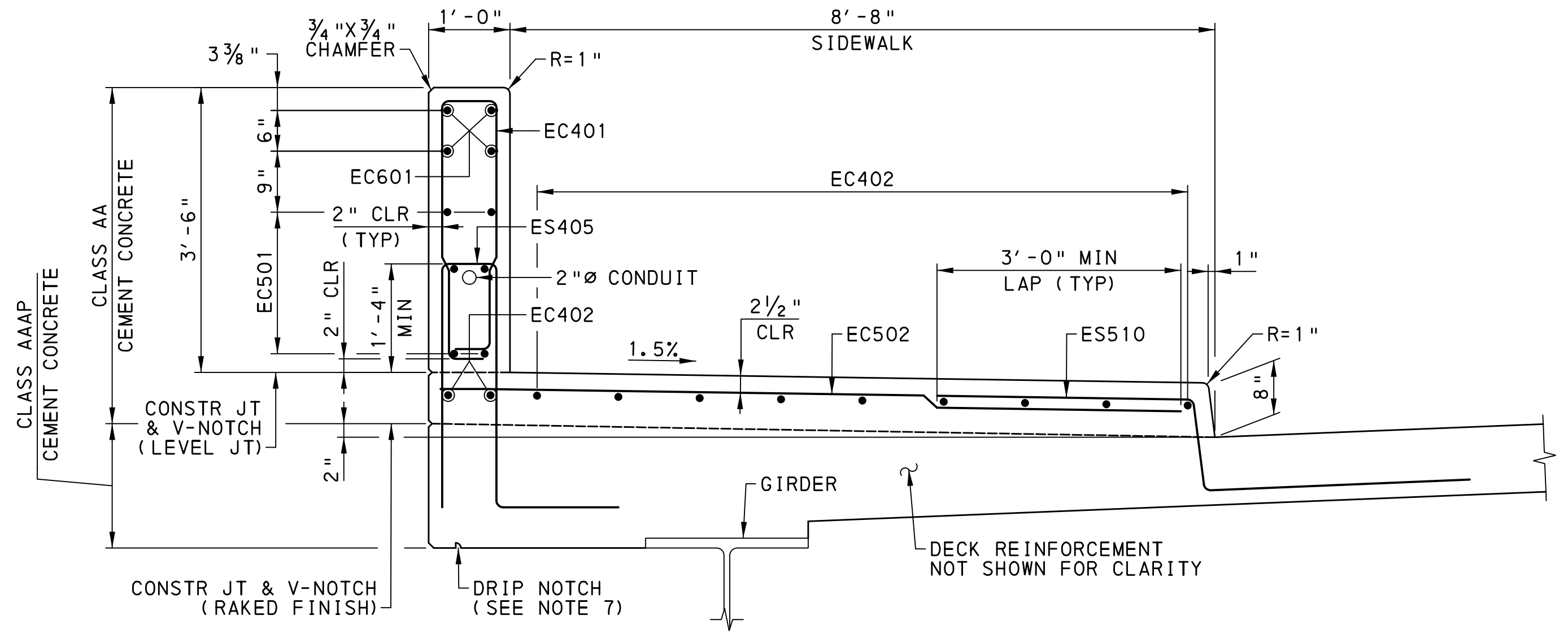
COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 BARRIER PLAN - 1

RECOMMENDED 2026.05.15

SHEET 64 OF 97

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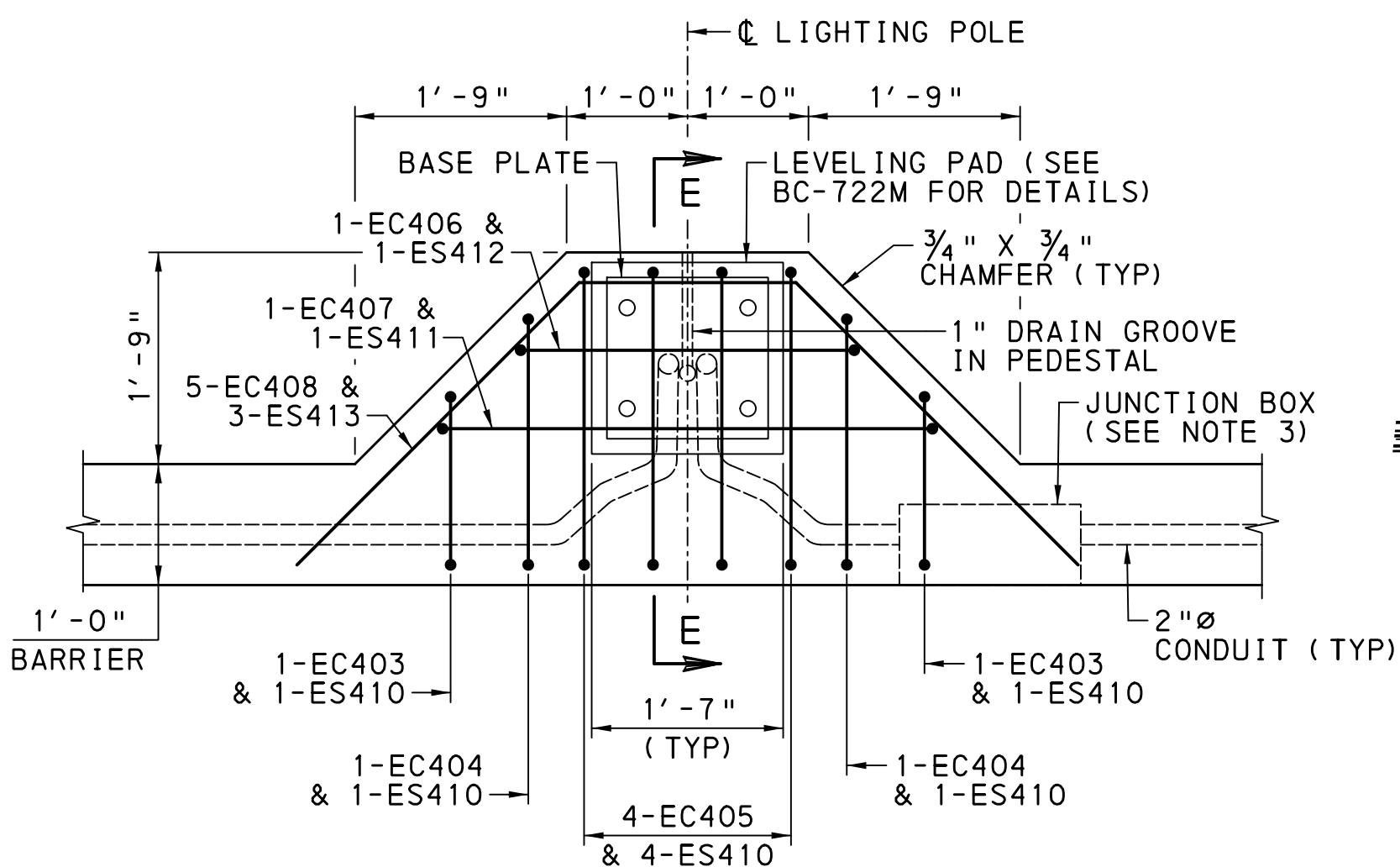
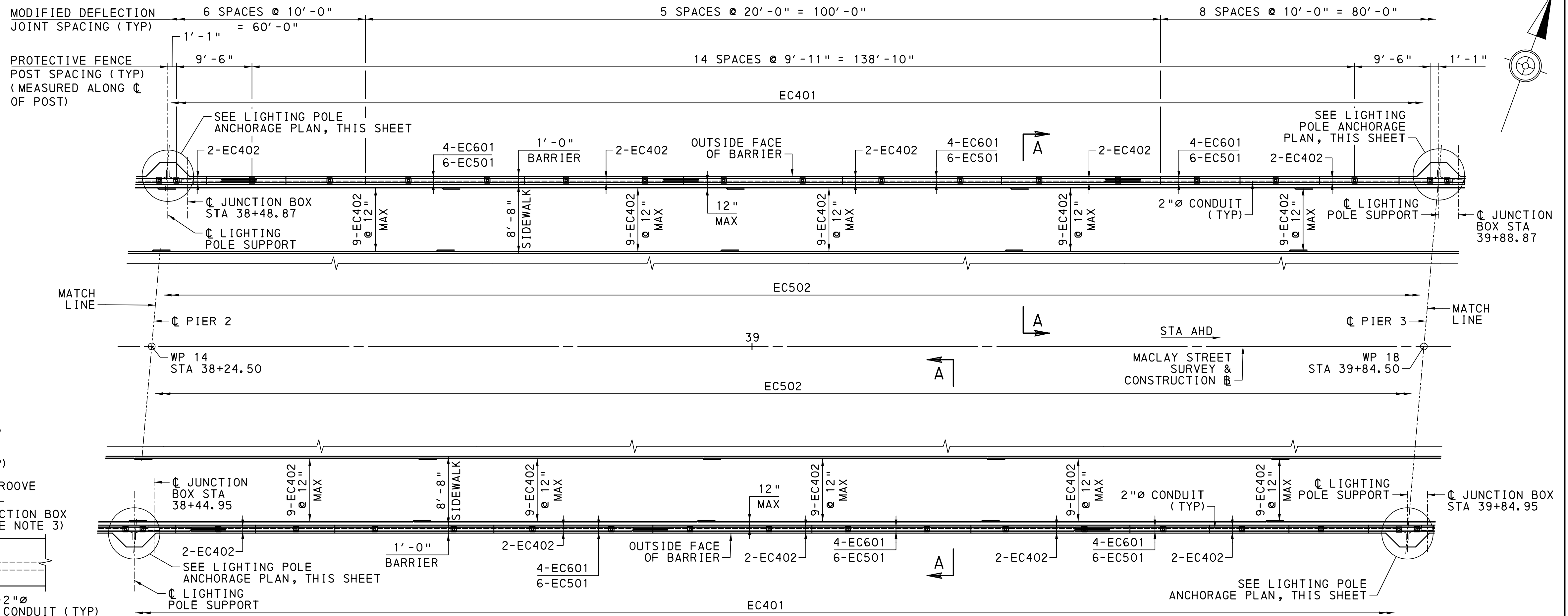


SECTION A-A (SHEETS 65 & 66)

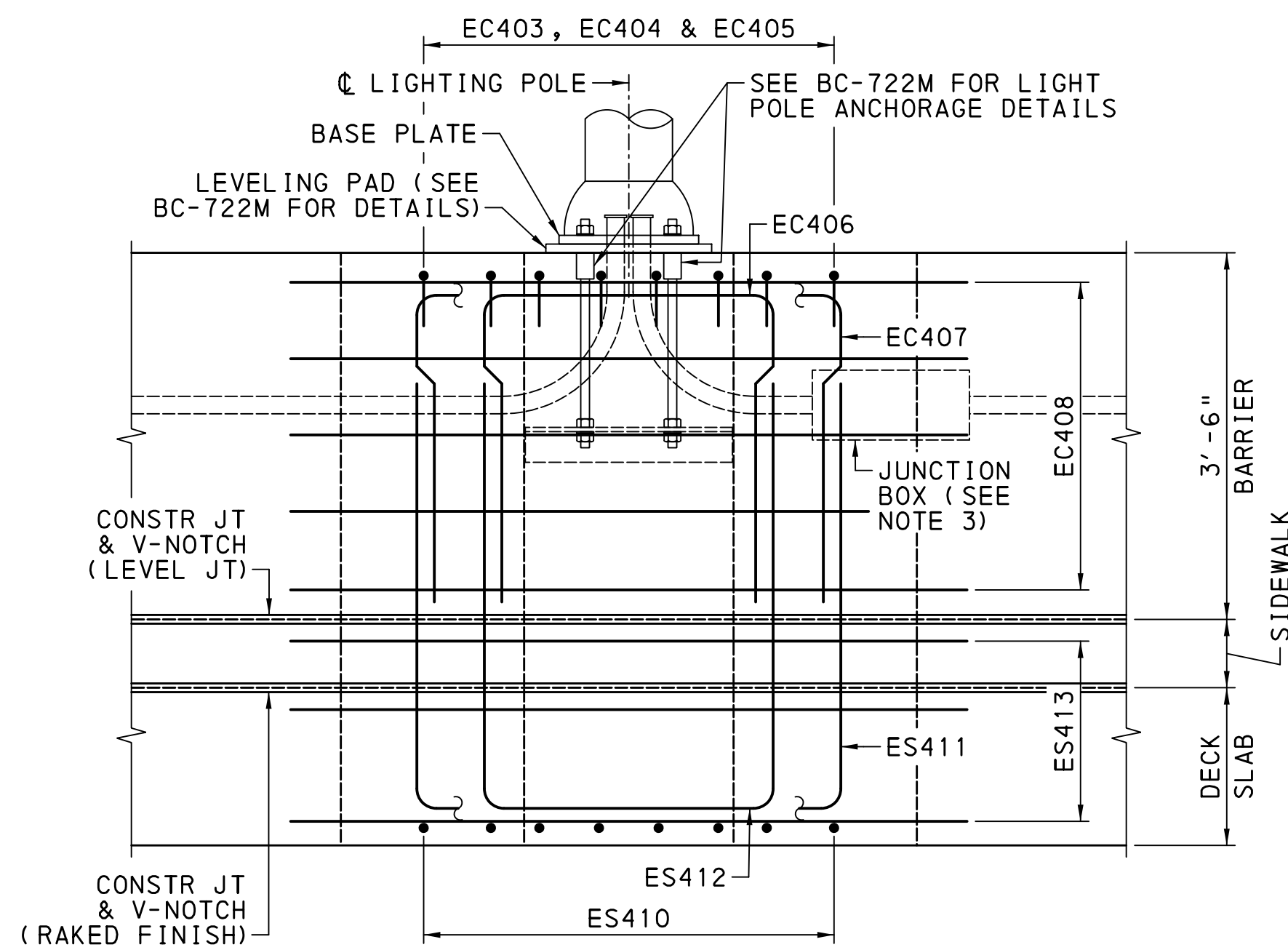


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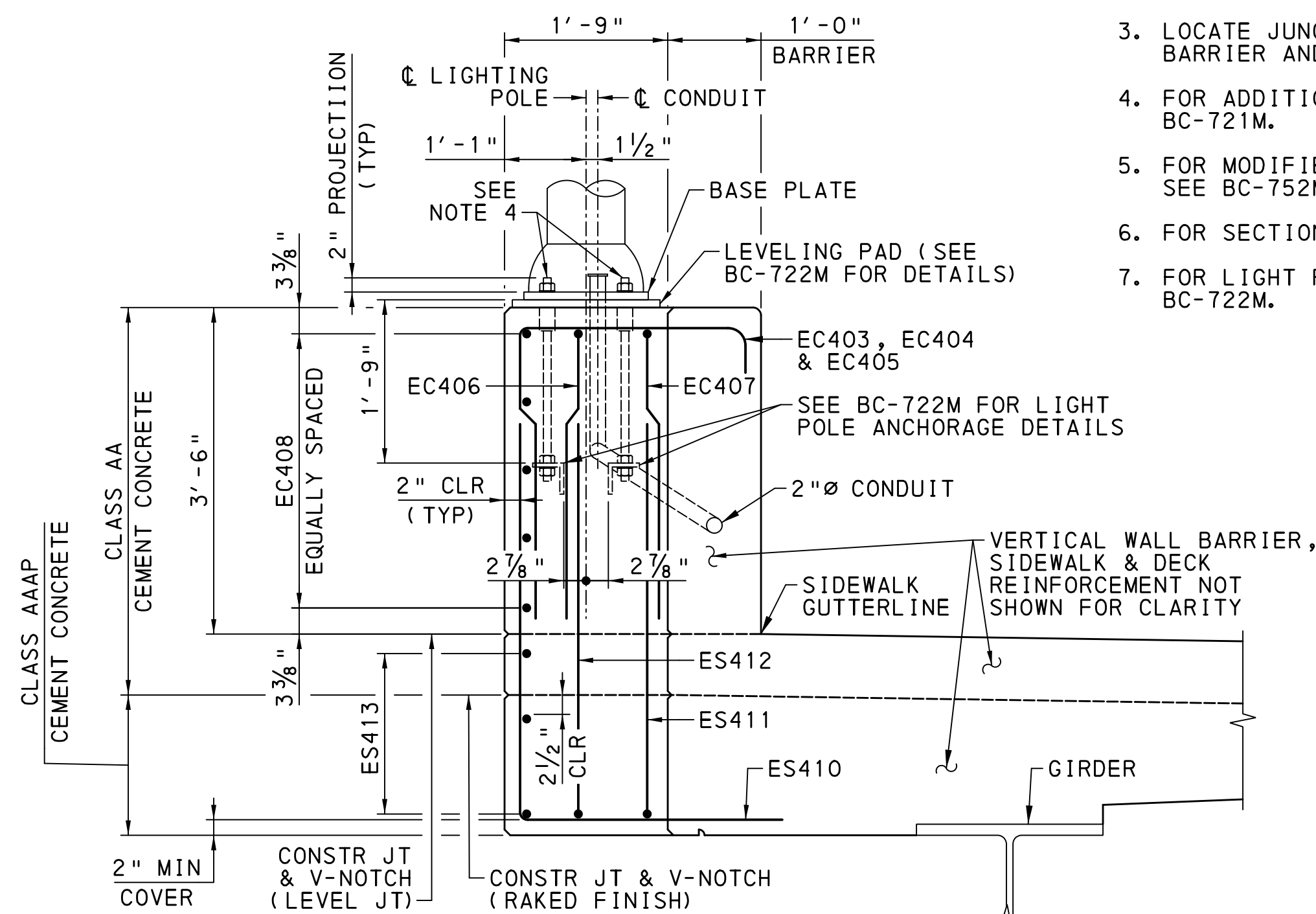
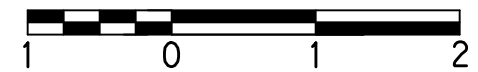
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LIGHTING POLE ANCHORAGE PLAN



LIGHTING POLE ANCHORAGE ELEVATION



SECTION E-E



SIDEWALK & BARRIER PLAN 2



NOTES

- FOR DECK SLAB PLANS, SEE SHEETS 56 & 57.
- FOR DECK SLAB SECTION, SEE SHEETS 59 & 60.
- LOCATE JUNCTION BOX ON SIDEWALK SIDE OF BARRIER AND PROVIDE TAMPER RESISTANT SCREWS.
- FOR ADDITIONAL ELECTRICAL DETAILS, SEE BC-721M.
- FOR MODIFIED DEFLECTION JOINT DETAILS, SEE BC-752M.
- FOR SECTION A-A, SEE SHEET 64.
- FOR LIGHT POLE ANCHORAGE DETAILS, SEE BC-722M.

TYPICAL BARRIER LAP LENGTHS

- #5 BAR - 3'-7"
- #6 BAR - 4'-4"

TYPICAL SIDEWALK LAP LENGTHS

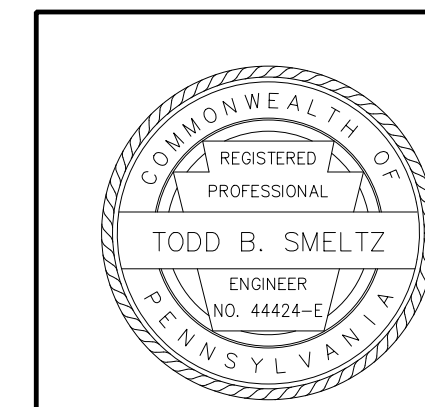
- #4 BAR - 2'-1"

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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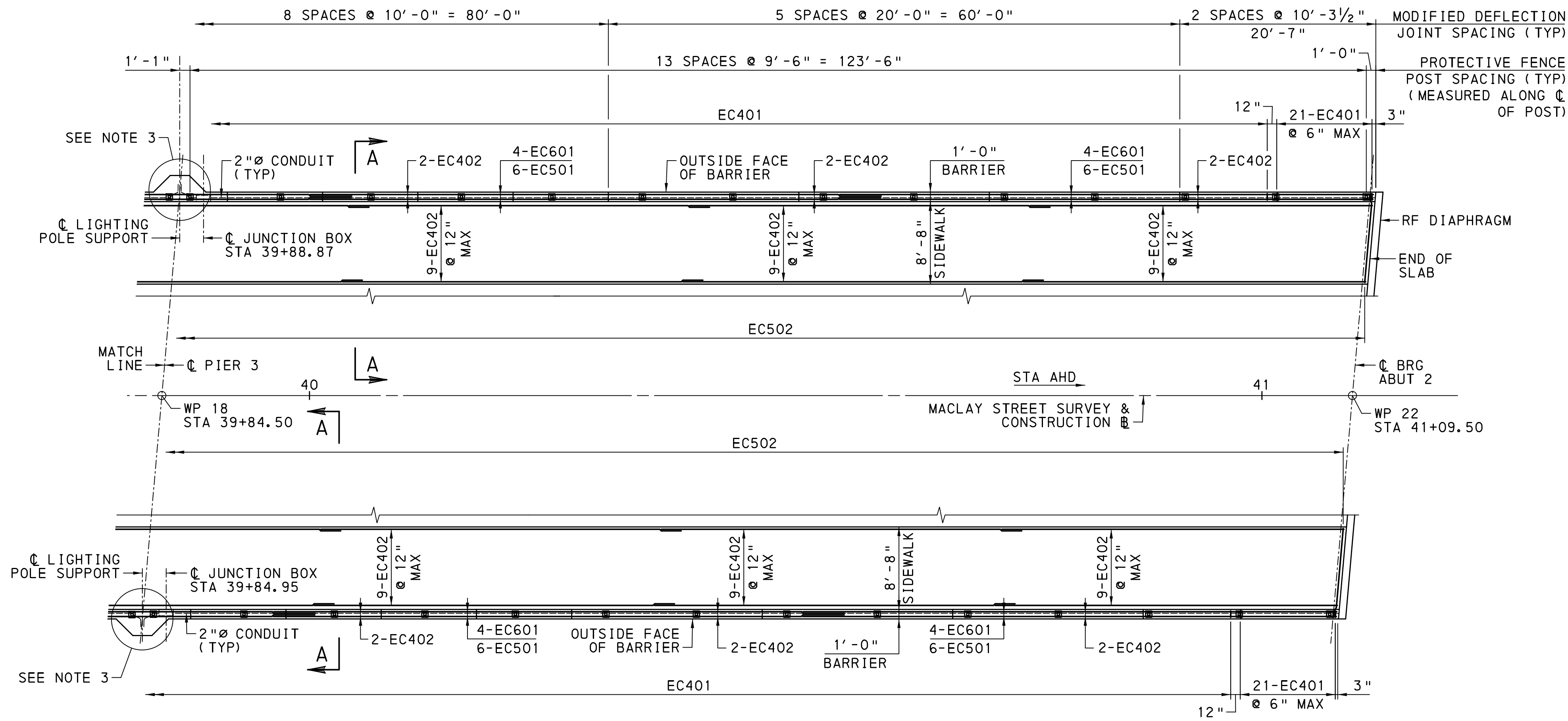
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 BARRIER PLAN - 2



RECOMMENDED 2026.05.15

SHEET 65 OF 97

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SIDEWALK & BARRIER PLAN 3

NOTES

1. FOR DECK SLAB PLANS, SEE SHEETS 56 & 57.
2. FOR DECK SLAB SECTIONS, SEE SHEETS 59 & 60.
3. FOR LIGHTING POLE ANCHORAGE PLAN, SEE SHEET 65.
4. LOCATE JUNCTION BOX ON SIDEWALK SIDE OF BARRIER AND PROVIDE TAMPER RESISTANT SCREWS.
5. FOR ADDITIONAL ELECTRICAL DETAILS, SEE BC-721M.
6. FOR MODIFIED DEFLECTION JOINT DETAILS, SEE BC-752M.
7. FOR SECTION A-A, SEE SHEET 64.

TYPICAL BARRIER LAP LENGTHS

- #5 BAR - 3'-7"
- #6 BAR - 4'-4"

TYPICAL SIDEWALK LAP LENGTHS

- #4 BAR - 2'-1"

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 BARRIER PLAN - 3



RECOMMENDED 2026.05.15

SHEET 66 OF 97

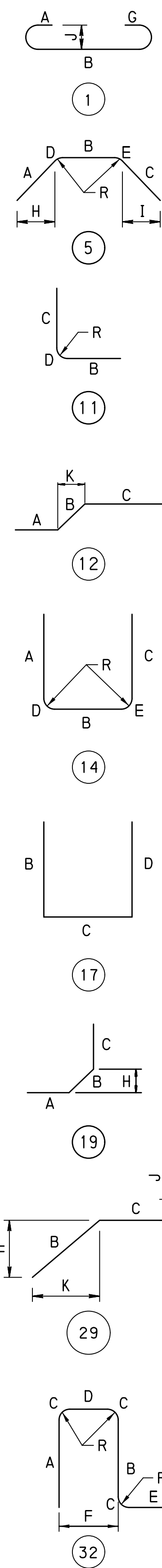
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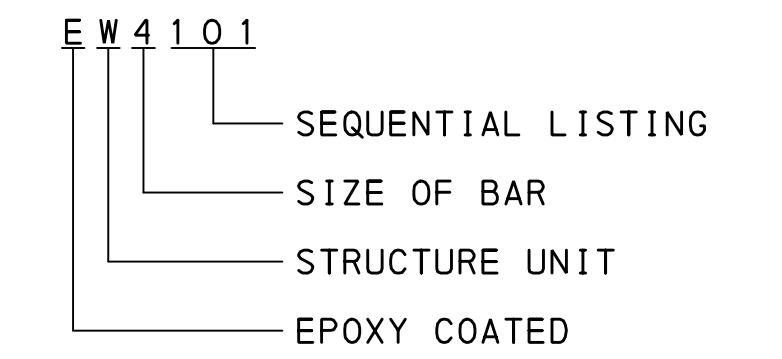
REINFORCEMENT BAR SCHEDULE

SUPERSTRUCTURE

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
DECK SLAB																	
ES301	3	5'-3"	545	STR													BEND IN FIELD
ES302	3	4'-8"	487	STR													BEND IN FIELD
ES401	4	27'-11"	297	STR													
ES402	4	30'-9"	297	STR													
ES403	4	39'-2"	198	STR													
ES404	4	7'-3"	2184	1	6"	6'-9"											
ES405	4	8'-9"	1044	32	3'-1"	2'-11"	4"	3"	1'-6"	8"						2"	
ES406	4	38'-0"	22	STR													
ES407	4	35'-9"	20	STR													
ES408	4	39'-11"	6	STR													
ES409	4	32'-1"	6	STR													
ES410	4	7'-6"	48	11		2'-7 1/2"	4'-6 1/2"	4"								2"	
ES411	4	13'-4"	6	14	4'-6"	3'-8"	4'-6"	4"	4"							2"	
ES412	4	12'-2"	6	14	4'-6"	2'-6"	4'-6"	4"	4"							2"	
ES413	4	8'-4"	18	5	3'-2"	1'-8"	3'-2"	2"	2"			2'-3"	2'-3"			2"	
ES501	5	41'-3"	252	STR													
ES502	5	45'-8"	252	STR													
ES503	5	39'-9"	252	STR													
ES504	5	33'-8"	1092	STR													
ES505	5	43'-6"	1092	STR													SEE NOTE 4
ES506	5	60'-0"	825	STR													
ES507	5	56'-9"	275	STR													
ES508	5	43'-10"	275	STR													
ES509	5	12'-0"	1092	STR													SEE NOTE 4
ES510	5	7'-8 1/2"	1004	12	3'-3"	1'-2 1/2"	3'-3"								1 1/4"		
ES601	6	12'-0"	1092	STR													SEE NOTE 4
ES602	6	34'-11"	1092	1	8"	34'-3"											
ES603	6	44'-2"	1092	1	8"	43'-6"											SEE NOTE 4
ES604	6	43'-6"	8	STR													SEE NOTE 4
ES605	6	34'-1"	8	STR													
ES606	6	57'-11"	97	STR													
ES607	6	60'-0"	291	STR													
ES608	6	44'-5"	97	STR													
ES609	6	12'-0"	8	STR													SEE NOTE 4
BARRIER & SIDEWALK																	
EC401	4	7'-9 1/2"	1044	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"							2"
EC402	4	37'-9"	308	STR													
EC403	4	4'-10"	12	14	3'-0"	10 1/2"	3 1/2"	4"	4"								2"
EC404	4	5'-4"	12	14	2'-11 1/2"	1'-5"	3 1/2"	4"	4"								2"
EC405	4	5'-11"	24	14	2'-11 1/2"	2'-0"	3 1/2"	4"	4"								2"
EC406	4	9'-2"	6	14	3'-0"	2'-6"	3'-0"	4"	4"								2"
EC407	4	10'-4"	6	14	3'-0"	3'-8"	3'-0"	4"	4"								
EC408	4	8'-4"	30	5	3'-2"	1'-8"	3'-2"	2"	2"			2'-3"	2'-3"			2"	
EC501	5	58'-11"	108	STR													
EC502	5	9'-3"	1004	STR													
EC601	6	59'-7"	72	STR													
END DIAPHRAGM																	
ED401	4	5'-6"	207	17		3'-2"	2'-4"										
ED402	4	4'-9"	207	19	2'-4"	1'-5"	1'-0"					1'-0"					
ED403	4	7'-0"	179	17		2'-8"	1'-8"	2'-8"									
ED404	4	3'-6"	207	17		2'-0"	1'-6"										
ED405	4	5'-8"	28	17		2'-0"	1'-8"	2'-0"									
ED601	6	5'-2"	207	29	8"	1'-0"	3'-6"					8 1/2"	6"	8 1/2"			
ED602	6	44'-8"	4	STR													SEE NOTE 4
ED603	6	10'-11"	12	STR													
ED604	6	41'-7"	8	STR													SEE NOTE 4
ED605	6	1'-9"	3	STR													
ED606	6	0'-8"	1	STR													
ED607	6	2'-4"	3	STR													
ED608	6	1'-3"	1	STR													
ED609	6	9'-9"	12	STR													
ED610	6	43'-7"	4	STR													SEE NOTE 4
ED611	6	7'-6"	12	STR													
ED612	6	12'-8"	30	STR													
ED613	6	11'-5"	6	STR													SEE NOTE 4
ED614	6	5'-7"	6	STR													SEE NOTE 4
ED615	6	7'-11"	24	STR													



EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

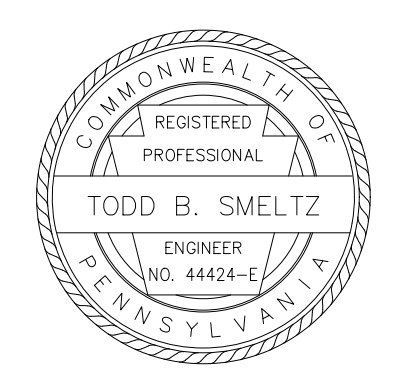
- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

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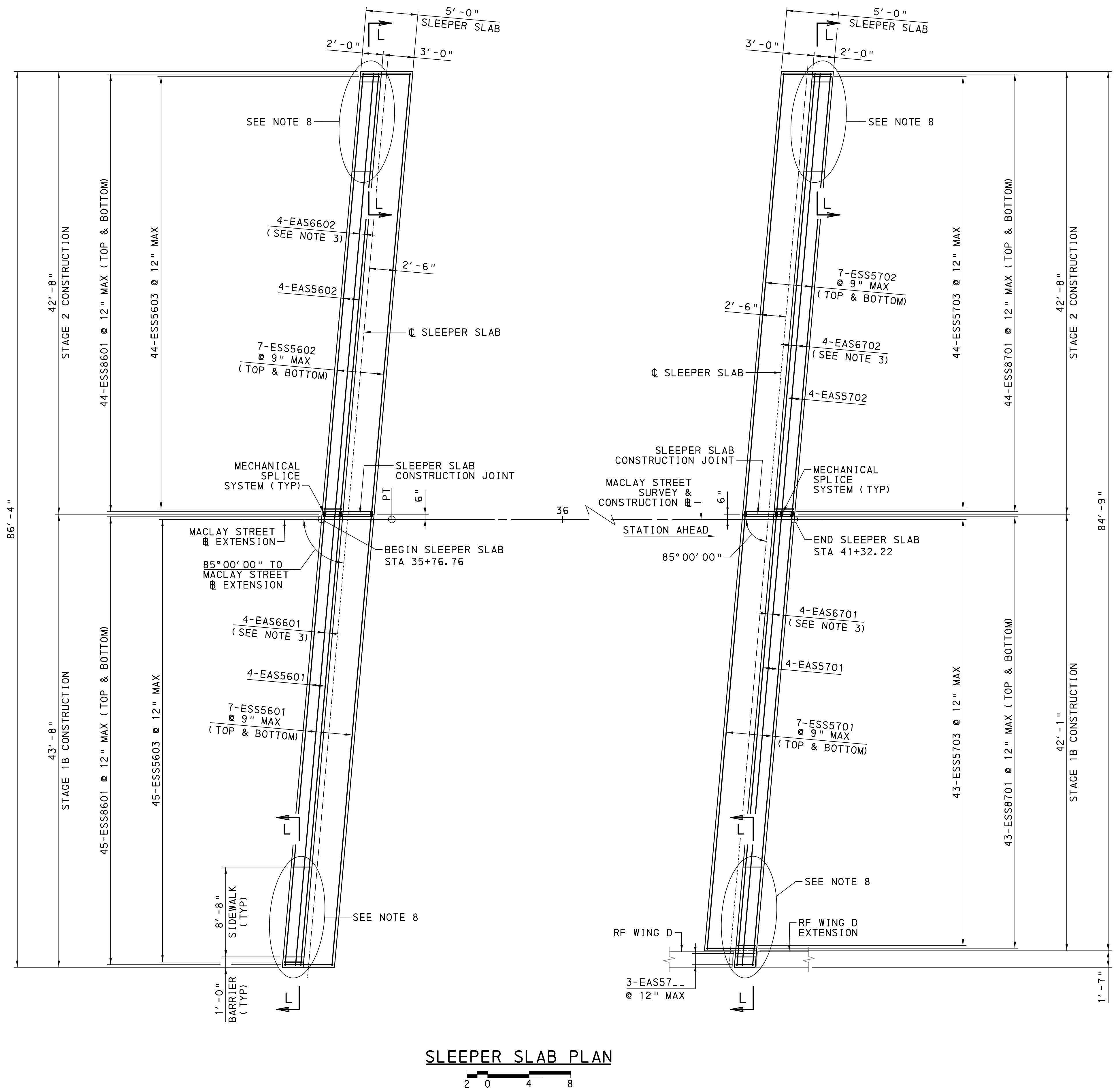
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SUPERSTRUCTURE REINFORCEMENT BAR SCHEDULE



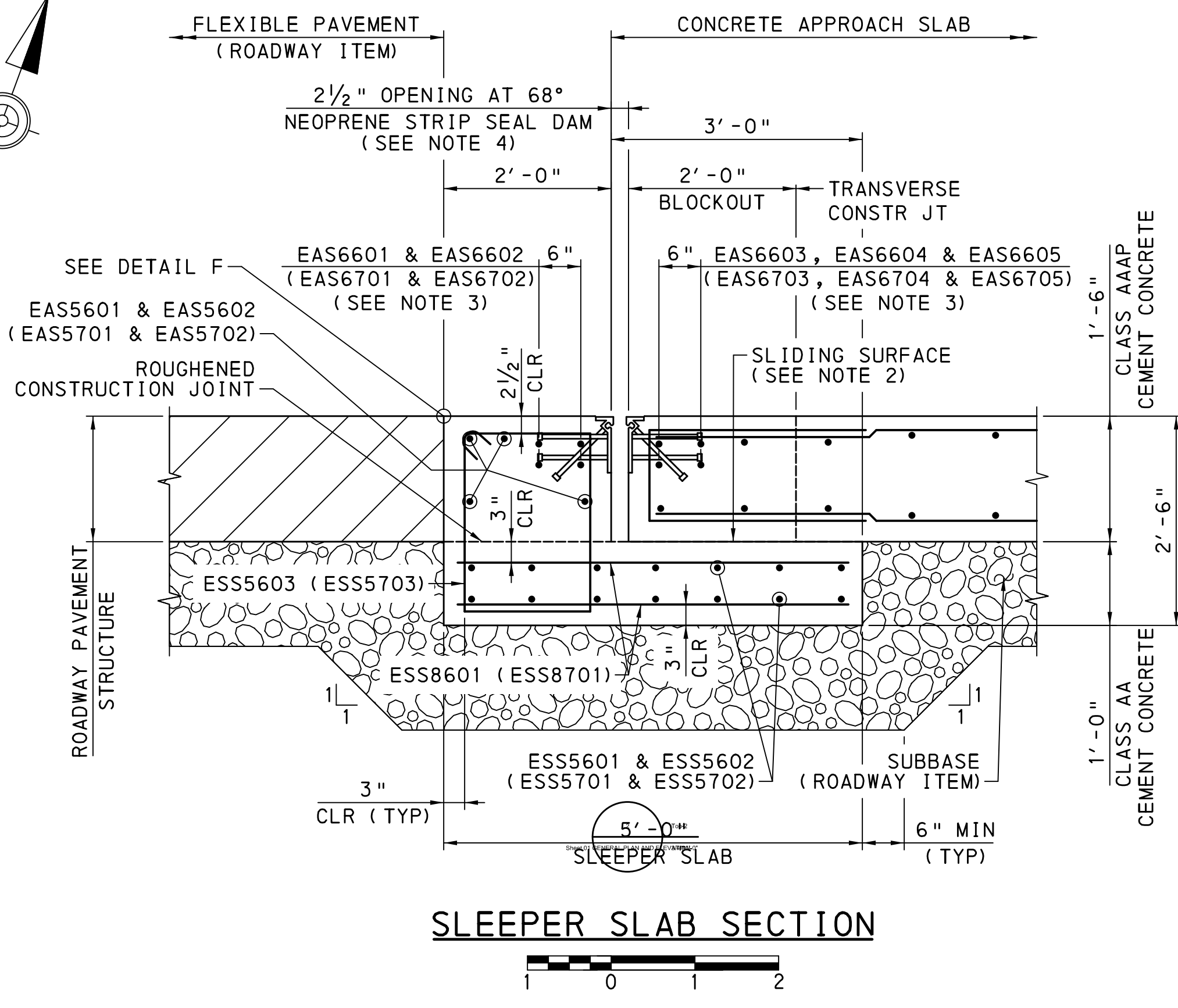
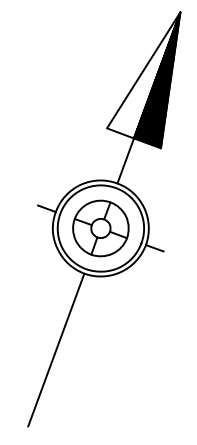
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SLEEPER SLAB PLAN
 2 0 4 8



SLEEPER SLAB SECTION
 1 0 1 2

NOTES

1. APPROACH SLAB 2 BAR MARKS SHOWN IN ().
2. TROWEL SMOOTH AND PLACE 2 LAYERS OF 4 MIL POLYETHYLENE SHEETING AS BOND BREAKER.
3. TIE TO TOP AND BOTTOM STUDS.
4. FOR ADDITIONAL NEOPRENE STRIP SEAL DAM DETAILS, SEE BC-767M.
5. FOR CONSTRUCTION JOINT DETAILS, SEE BC-735M.
6. FOR DETAIL F, SEE SHEET 71.
7. FOR SECTION L-L, SEE SHEET 72.
8. FOR SLEEPER SLAB SIDEWALK AND BARRIER BARS, SEE SHEETS 72 & 73.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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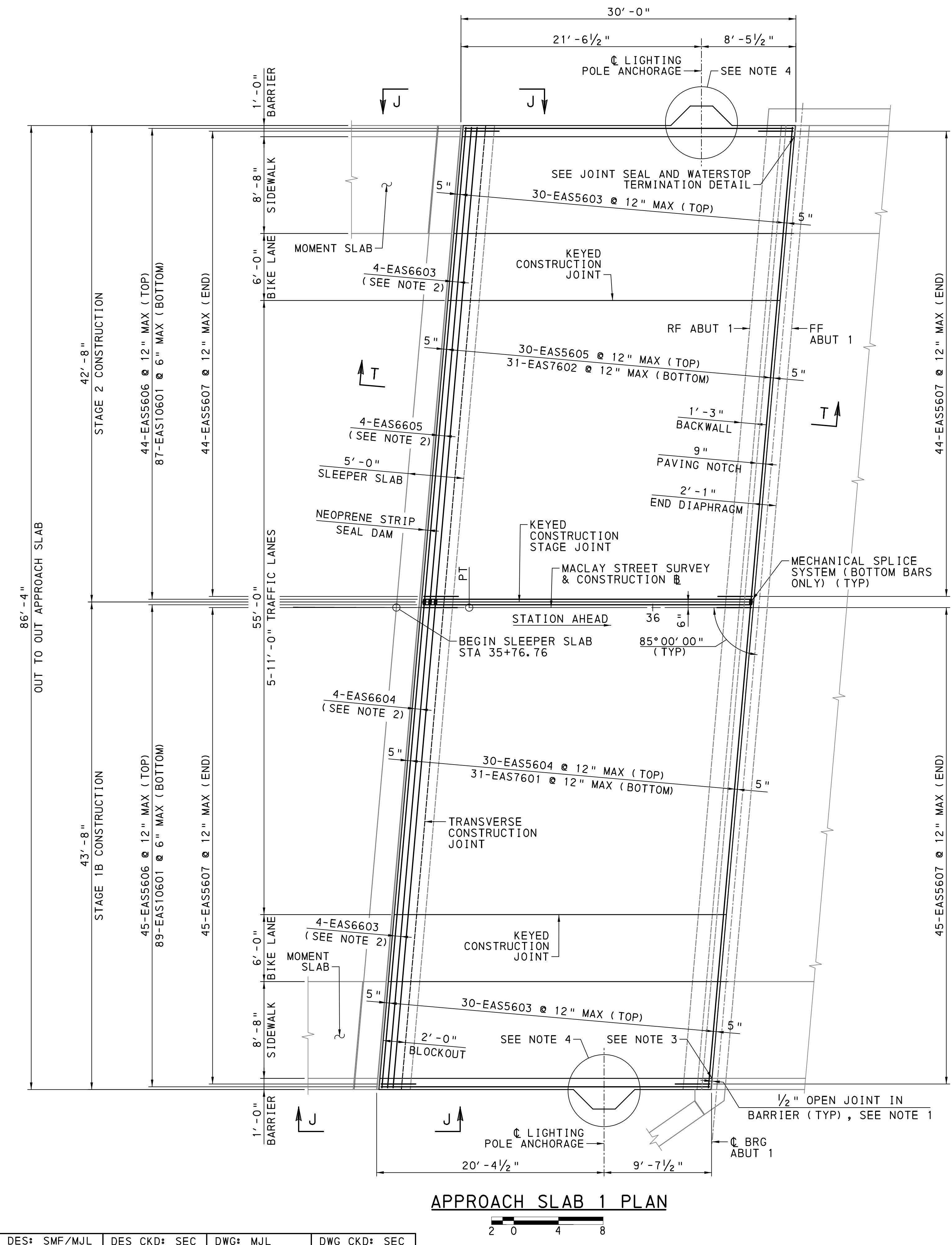
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SLEEPER SLAB PLANS

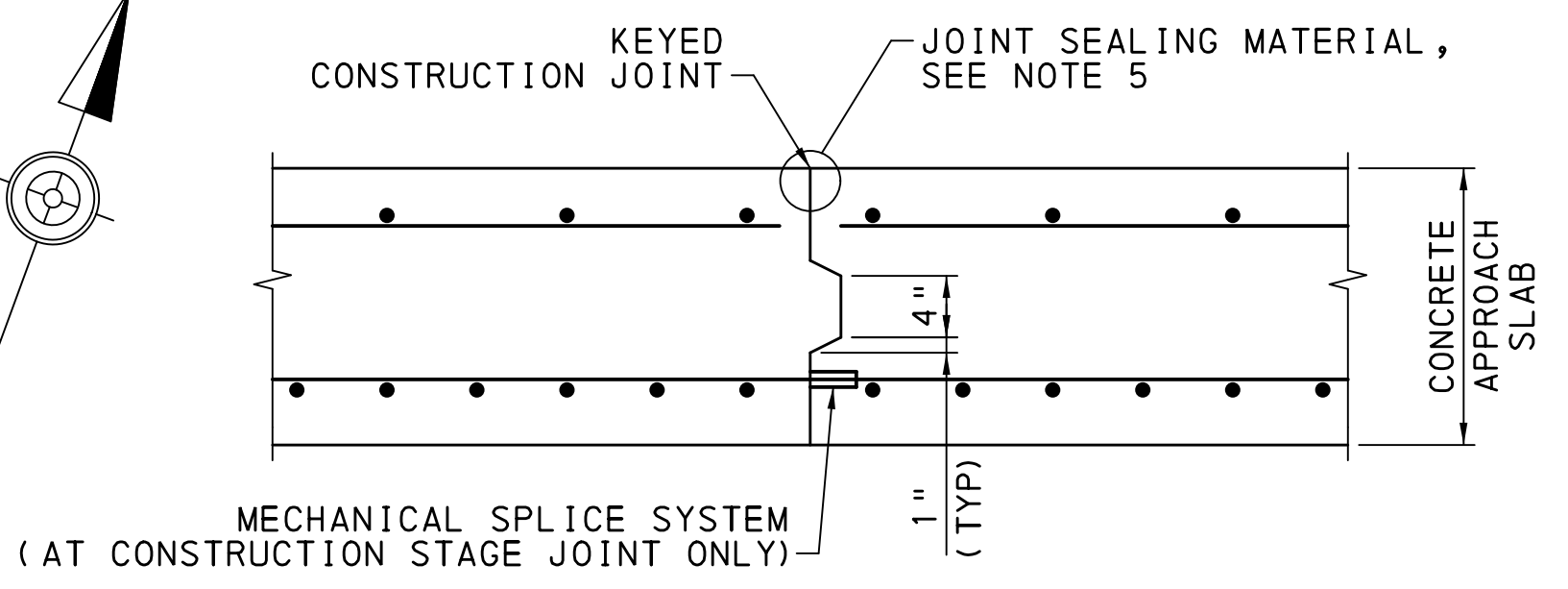
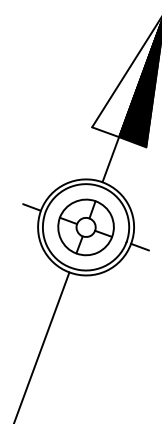


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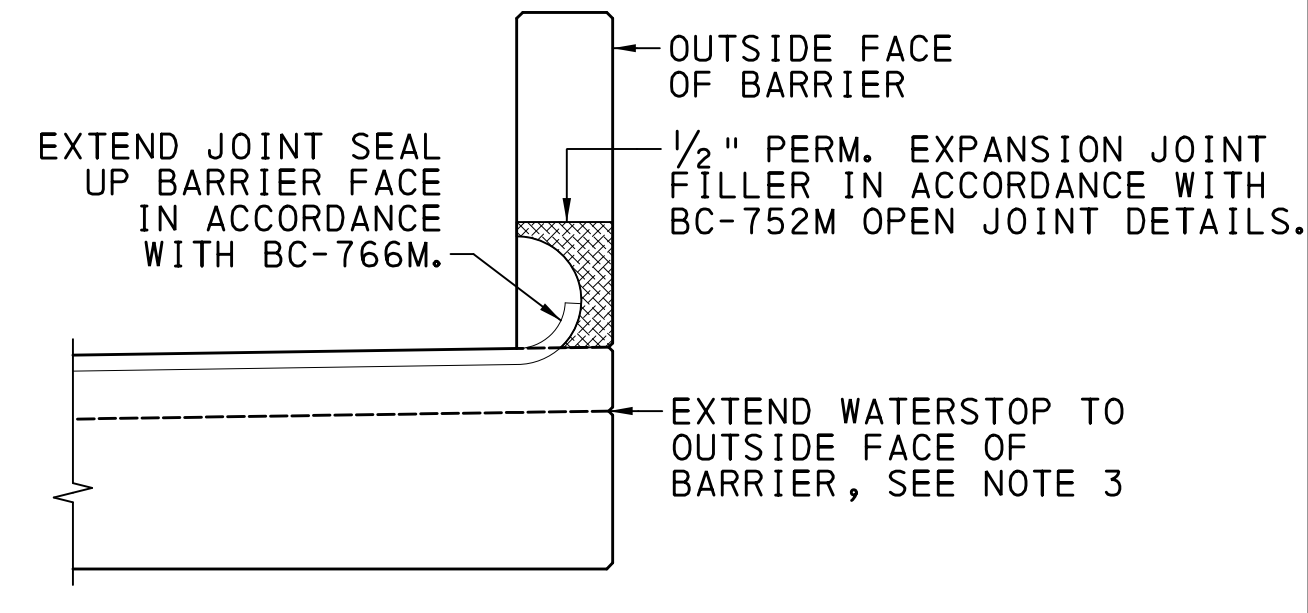
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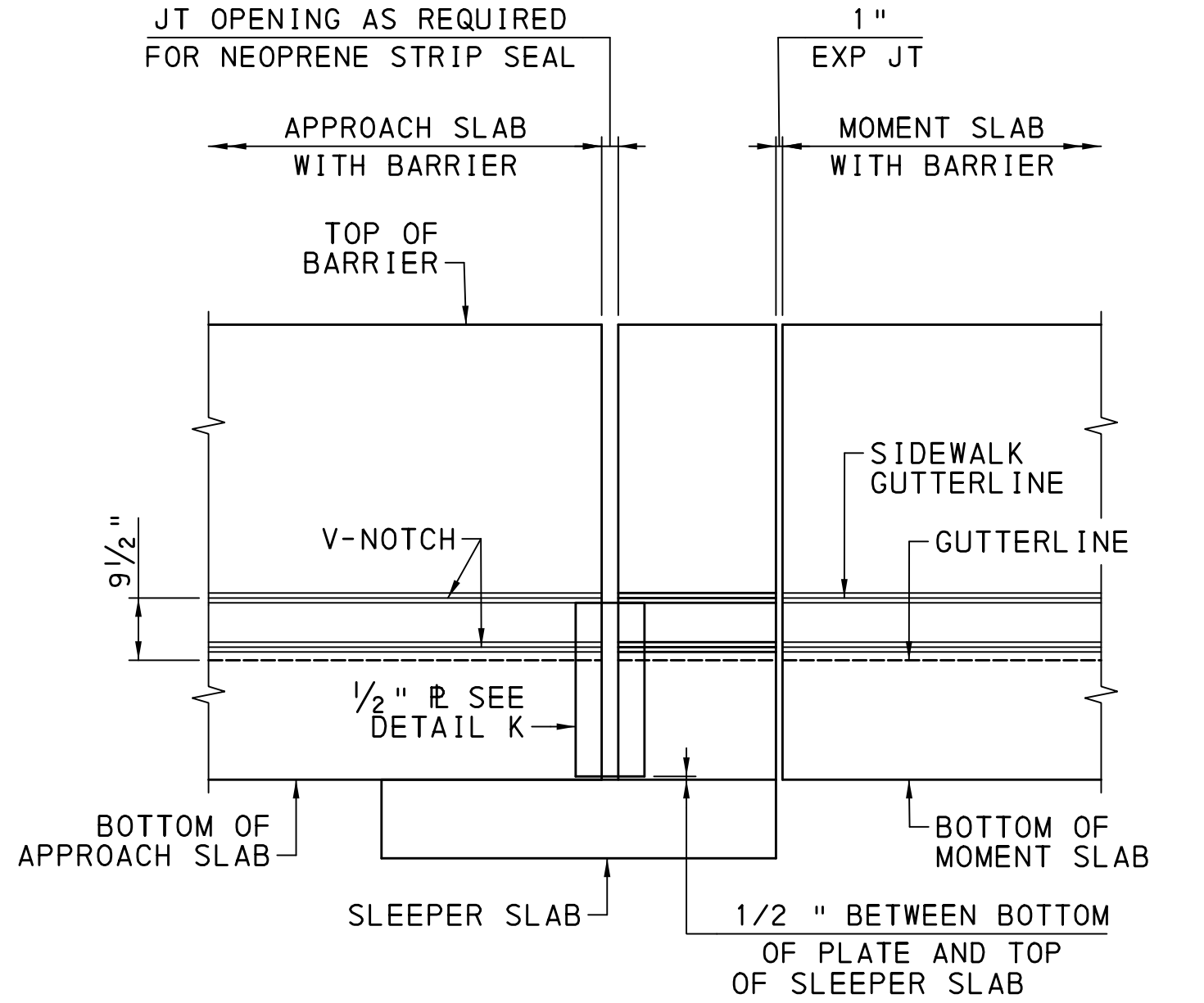
APPROACH SLAB 1 PLAN



KEYED CONSTRUCTION JOINT DETAIL
NOT TO SCALE



JOINT SEAL AND WATERSTOP
TERMINATION DETAIL AT ABUTMENT END
NOT TO SCALE



VIEW J-J
1 0 2 4

NOTES

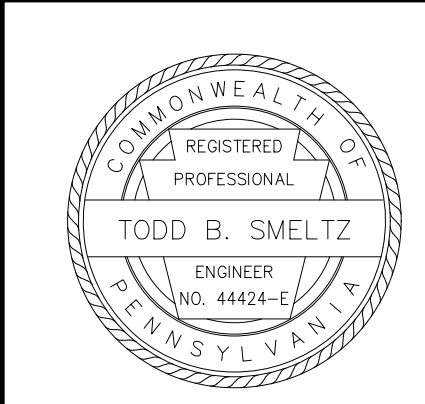
1. OMIT CAULKING COMPOUND IN AREA OF SAW CUT FOR JOINT SEAL, SEE BC-752M FOR ADDITIONAL DETAILS.
2. TIE TO TOP AND BOTTOM STUDS.
3. PLACE WATERSTOP TO PROVIDE POSITIVE DRAINAGE TO THE OUTSIDE OF THE STRUCTURE.
4. FOR LIGHT POLE ANCHORAGE PLAN SEE SHEET 65.
5. SEAL JOINT IN ACCORDANCE WITH BC-752M, CONSTRUCTION JOINT DETAIL A.
6. FOR DETAIL K, SEE SHEET 70.
7. FOR SECTION T-T, SEE SHEET 71.
8. FOR ADDITIONAL NEOPRENE STRIP SEAL DAM DETAILS AND NOTES, SEE BC-767M.
9. FOR SIDEWALK PLAN, SEE SHEET 72.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 APPROACH SLAB 1 PLAN

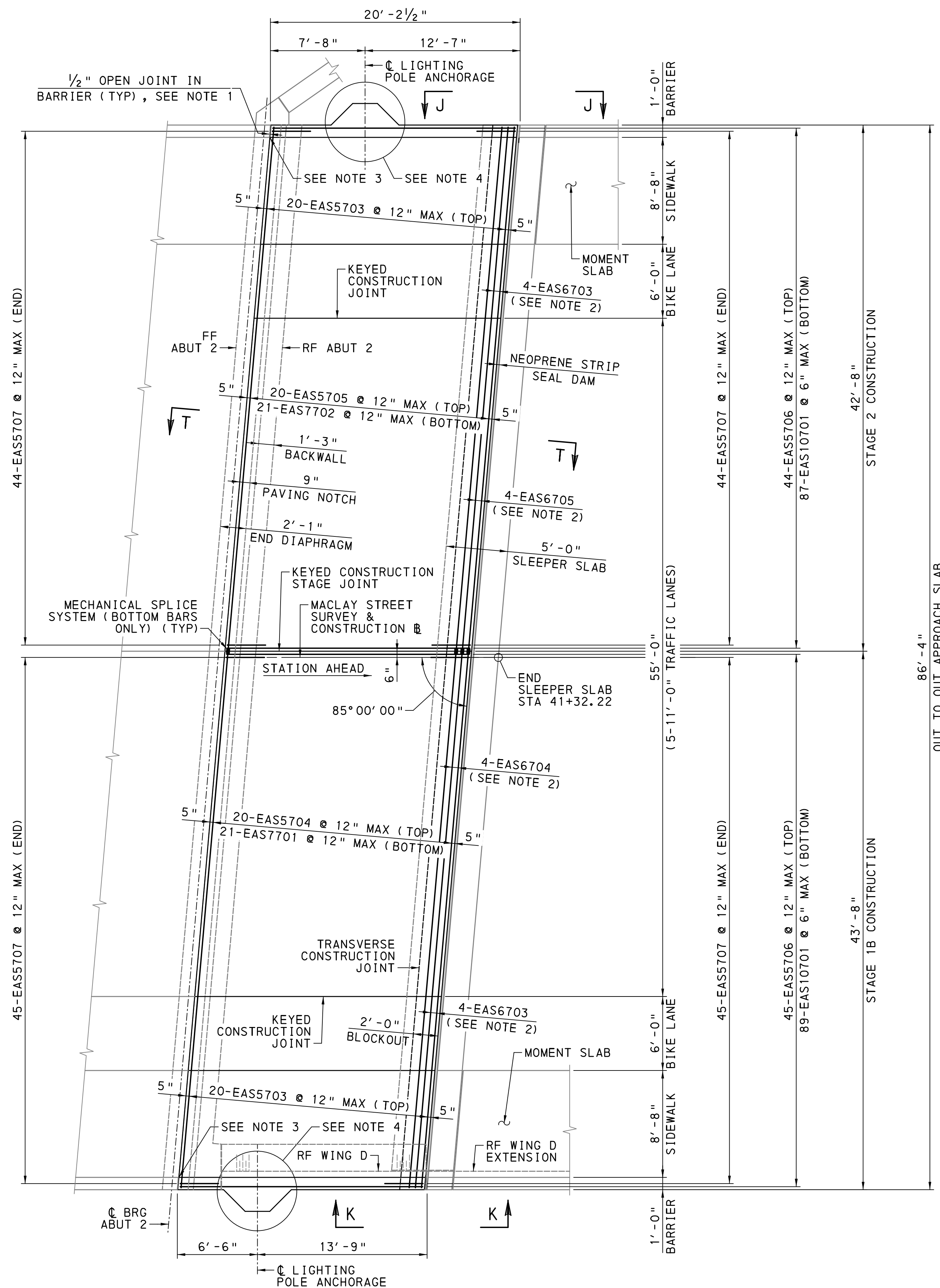


RECOMMENDED 2026.05.15

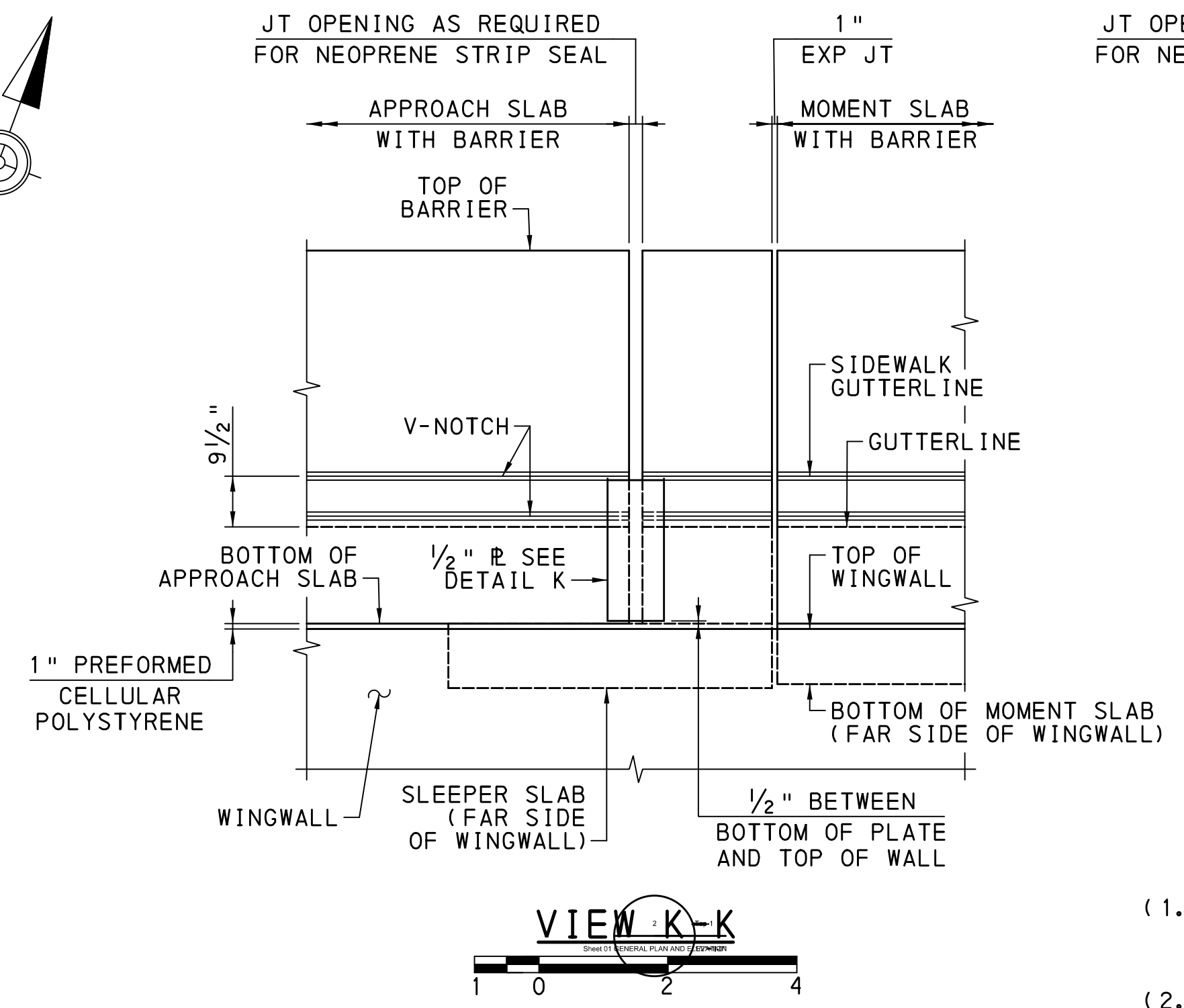
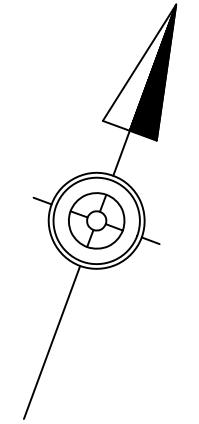
SHEET 69 OF 97

S-42336

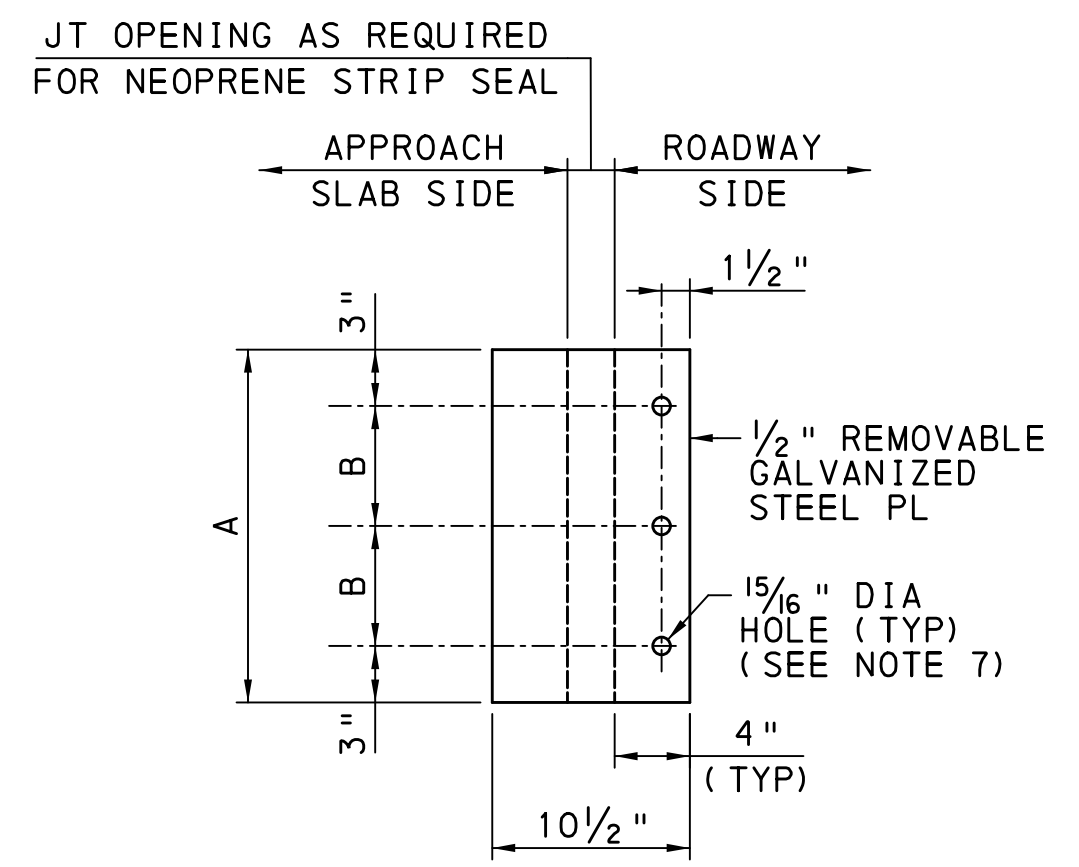
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APPROACH SLAB 2 PLAN



VIEW K-K



DETAIL K
NOT TO SCALE

1/2" REMOVABLE GALVANIZED PLATE DIMENSIONS (1)			
PLATE LOCATION	APPROACH SLAB LOCATION	A	B(2)
LEFT OUTSIDE FACE	1 & 2	2'-6"	6 1/2"
RIGHT OUTSIDE FACE	1 & 2	2'-6"	6 59/64"
STAGED CONSTR JT (3)	1 & 2	1'-5"	5 59/64"

- END COVER PLATES, BOLTS, WASHERS, AND THREADED INSERTS FOR TYPE 3 AND 5 APPROACH SLABS ARE INCIDENTAL TO THE NEOPRENE STRIP SEAL DAM.
- PROVIDE 4 SPACES FOR OUTSIDE FACE LOCATIONS AND 2 SPACES FOR STAGED CONSTRUCTION JOINT LOCATIONS.
- TEMPORARILY COVER STAGE 1B APPROACH SLAB JOINT WITH SLAB END PLATE TO PREVENT JOINT DAMAGE. REMOVE PLATE PRIOR TO STAGE 2 APPROACH SLAB PLACEMENT AND PLUG THREADED INSERTS WITH PLASTIC SCREWS.

NOTES

- OMIT CAULKING COMPOUND IN AREA OF SAW CUT FOR JOINT SEAL, SEE BC-752M FOR ADDITIONAL DETAILS.
- TIE TO TOP AND BOTTOM STUDS.
- EXTEND JOINT SEAL UP BARRIER FACE IN ACCORDANCE WITH BC-766M. EXTEND WATERSTOP TO OUTSIDE FACE OF BARRIER, SEE TERMINATION DETAIL SHEET 69.
- FOR LIGHT POLE ANCHORAGE PLAN AND SIDEWALK PLAN, SEE SHEET 73.
- FOR VIEW J-J, SEE SHEET 69.
- FOR SECTION T-T, SEE SHEET 71.
- PROVIDE 3/4" Ø GALVANIZED ASTM F3125 GRADE A325 BOLTS WITH GALVANIZED WASHERS WITH THREADED INSERTS (TYP).
- FOR ADDITIONAL NEOPRENE STRIP SEAL DAM DETAILS AND NOTES, SEE BC-767M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

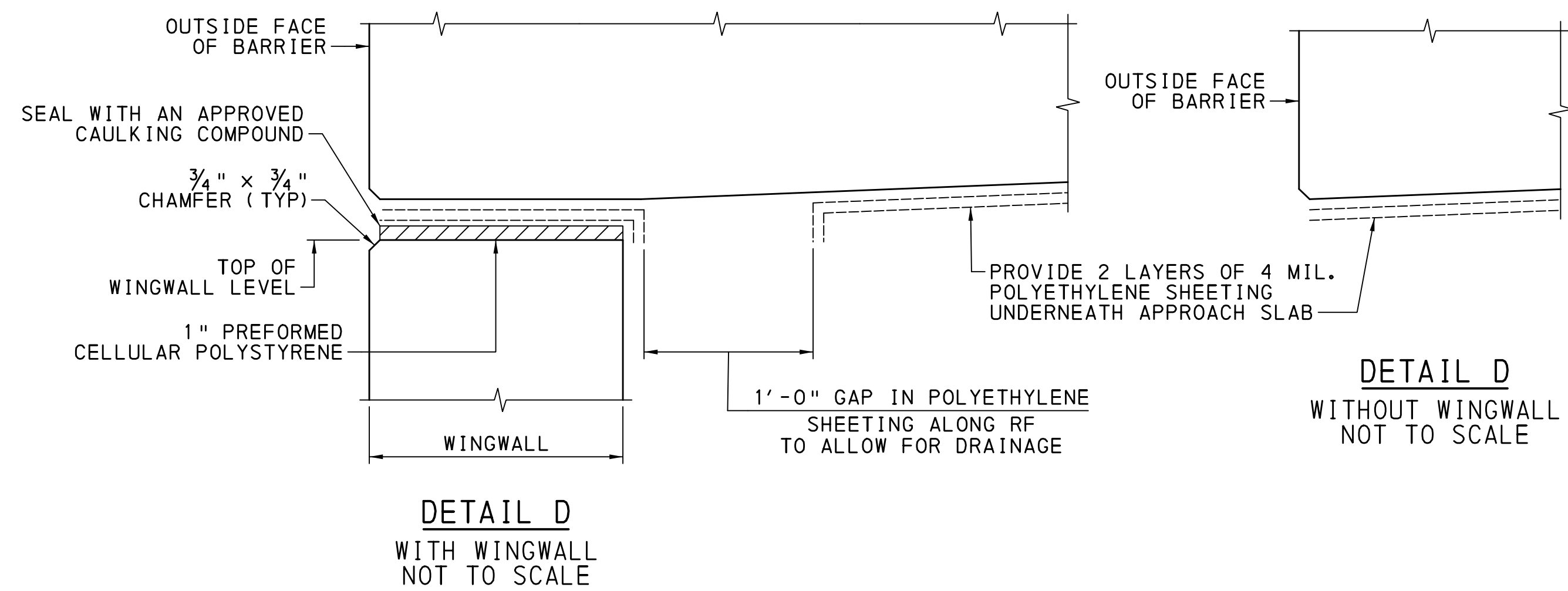
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 APPROACH SLAB 2 PLAN



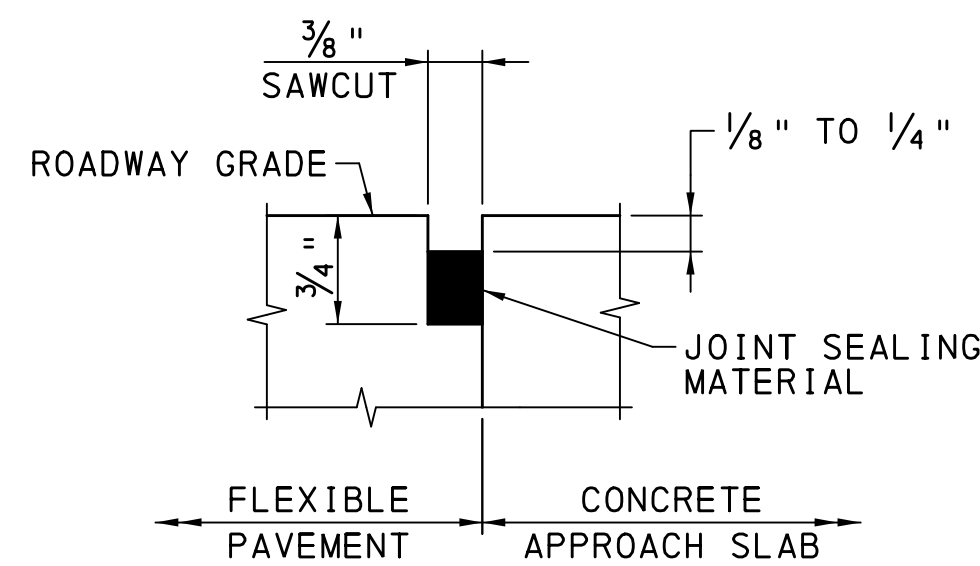
RECOMMENDED 2026.05.15

SHEET 70 OF 97

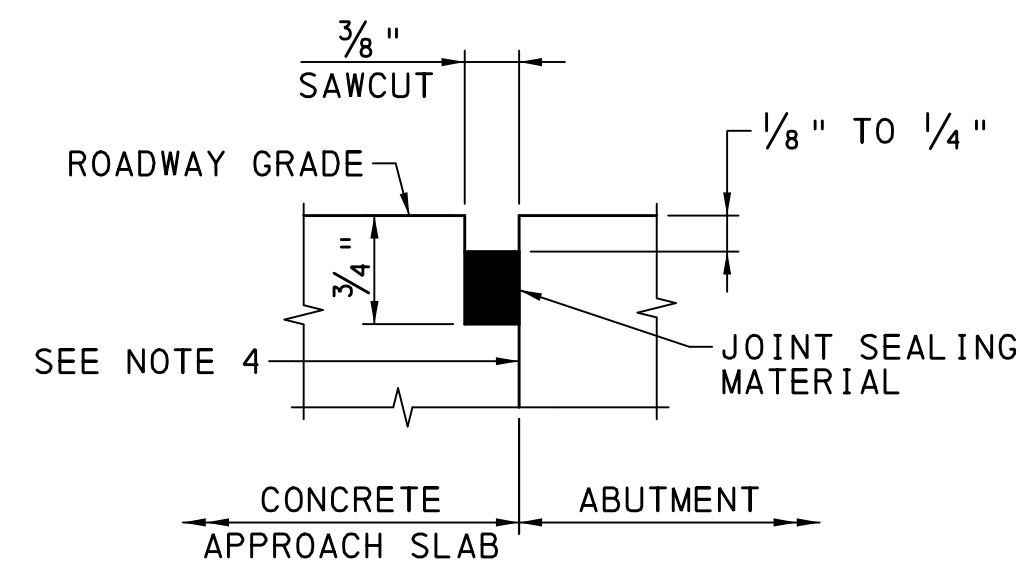
S-42336



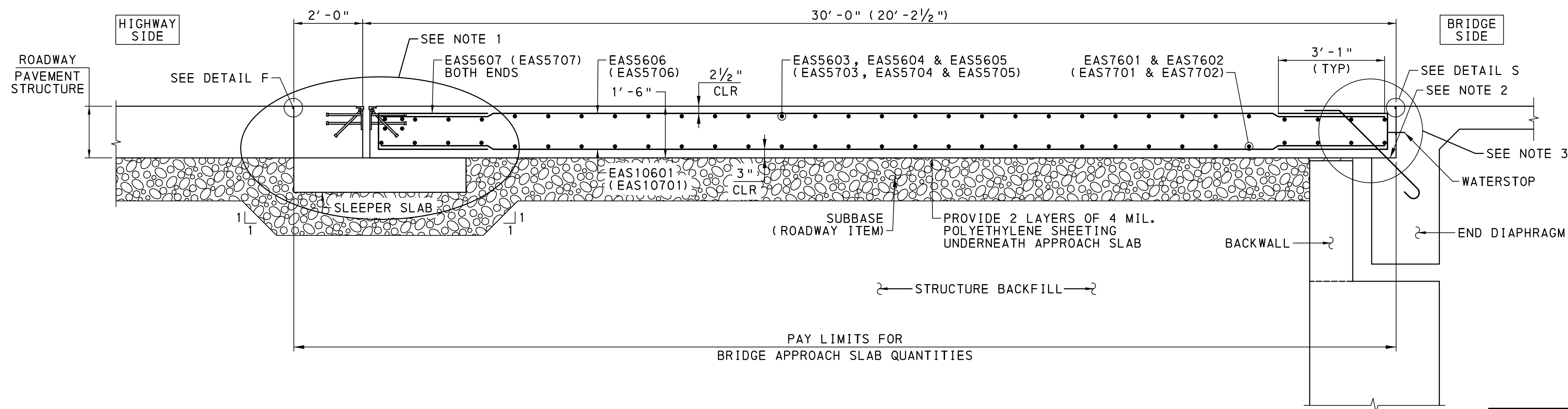
DETAIL D
WITHOUT WINGWALL
NOT TO SCALE



DETAIL F
NOT TO SCALE

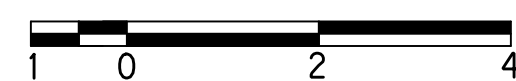


DETAIL S
NOT TO SCALE



SECTION T-T (SHEETS 69 & 70)

APPROACH SLAB 1 SHOWN
APPROACH SLAB 2 BARS AND DIMENSIONS IN ()



NOTES

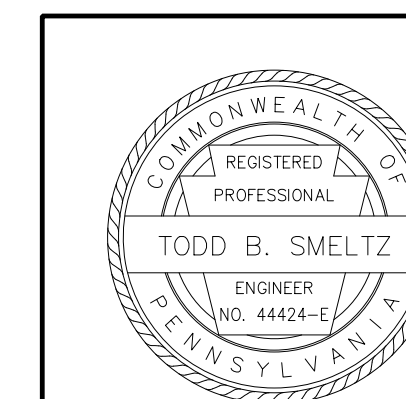
1. FOR SLEEPER SLAB AND STRIP SEAL DETAILS, SEE SHEET 68.
2. COAT WITH AN APPROVED EPOXY BONDING COMPOUND PRIOR TO PLACING APPROACH SLAB CONCRETE.
3. FOR DETAILS AT END DIAPHRAGM AND BACKWALL, SEE SHEET 61 & 62.
4. FOR ADDITIONAL NEOPRENE STRIP SEAL DAM DETAILS, SEE BC-767M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
APPROACH SLAB DETAILS

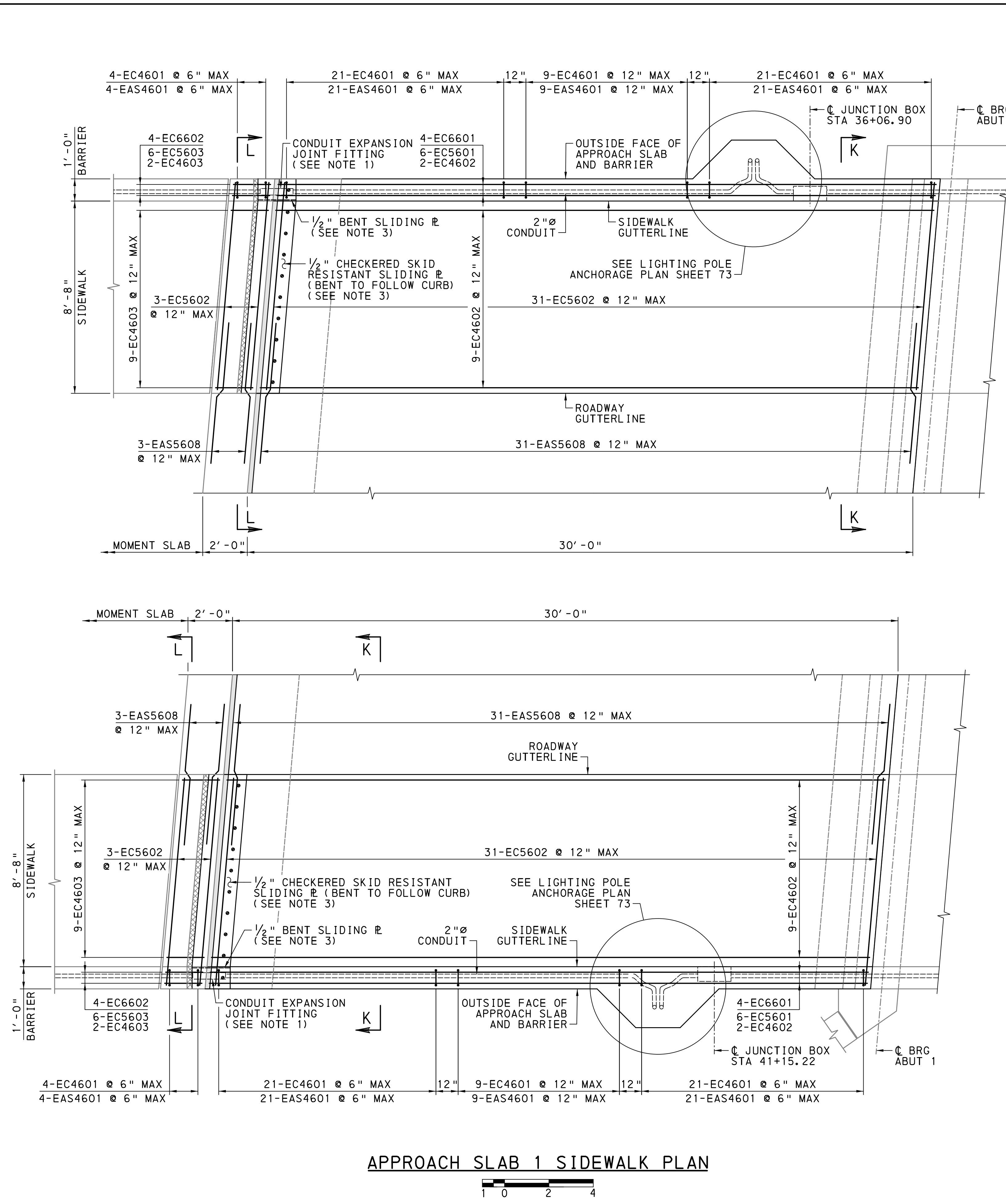


RECOMMENDED 2026.05.15

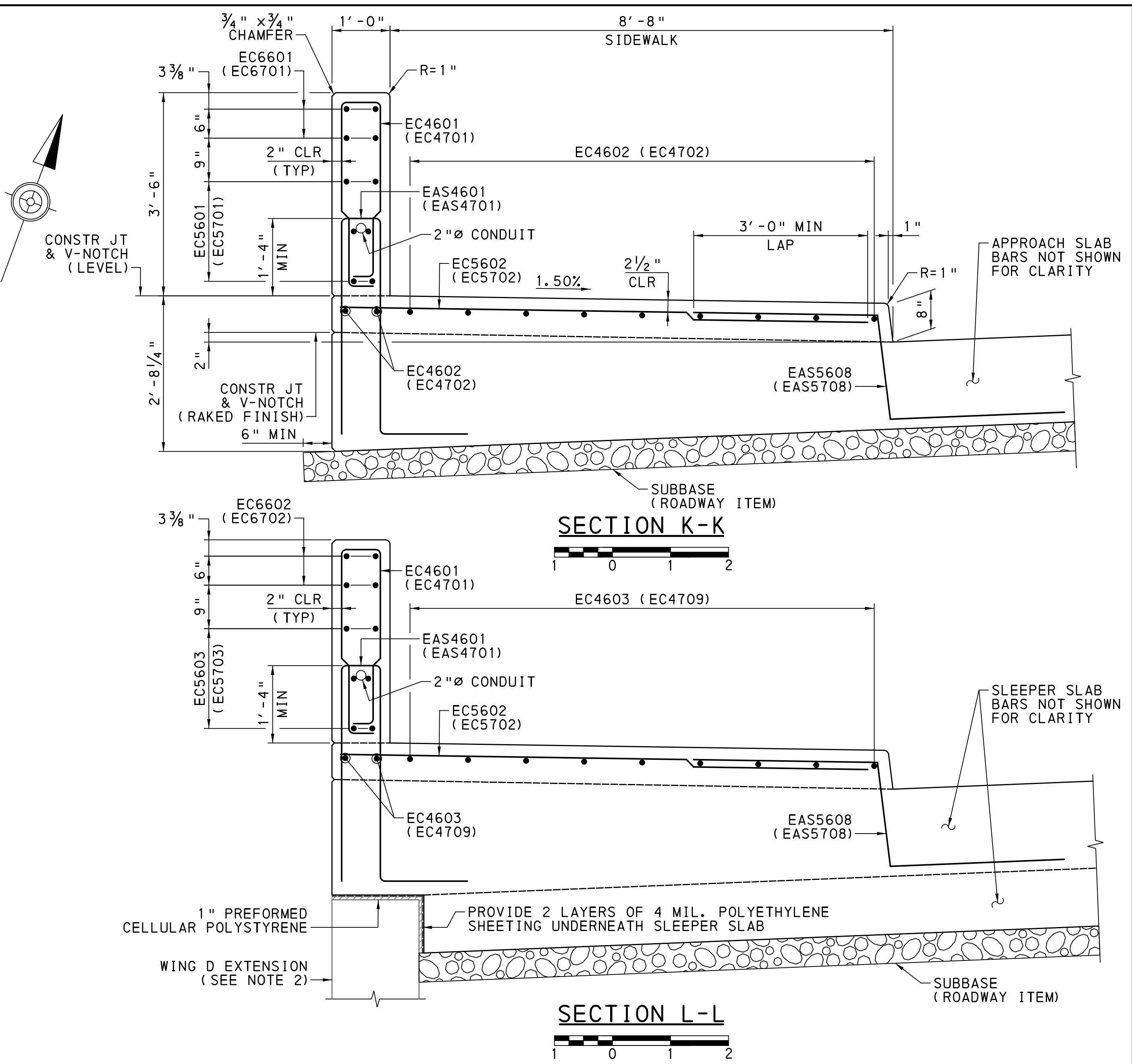
SHEET 71 OF 97

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APPROACH SLAB 1 SIDEWALK PLAN



SECTION K-K

SECTION L-L

NOTES

1. CONDUIT EXPANSION JOINT FITTING IS INCIDENTAL TO 2" DIAMETER CONDUIT.
2. WING D EXTENSION IS IN THE APPROACH SLAB 2 RIGHT CORNER ONLY, ALL OTHER CORNERS EXTEND THE SLEEPER SLAB TO THE OUTSIDE FACE.
3. FOR ADDITIONAL DETAILS AND NOTES, SEE BC-767M.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
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 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 APPROACH SLAB 1 SIDEWALK PLAN

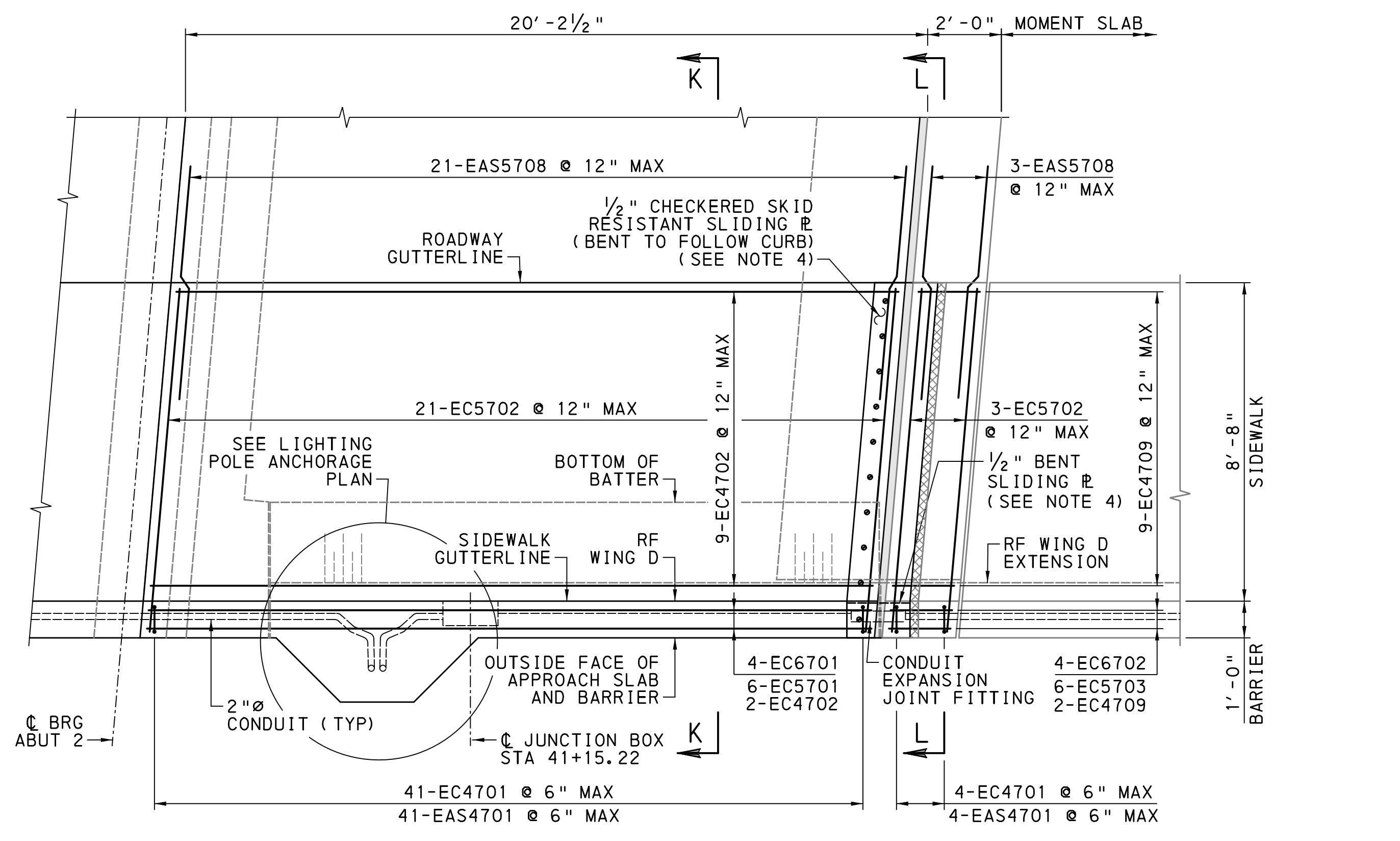
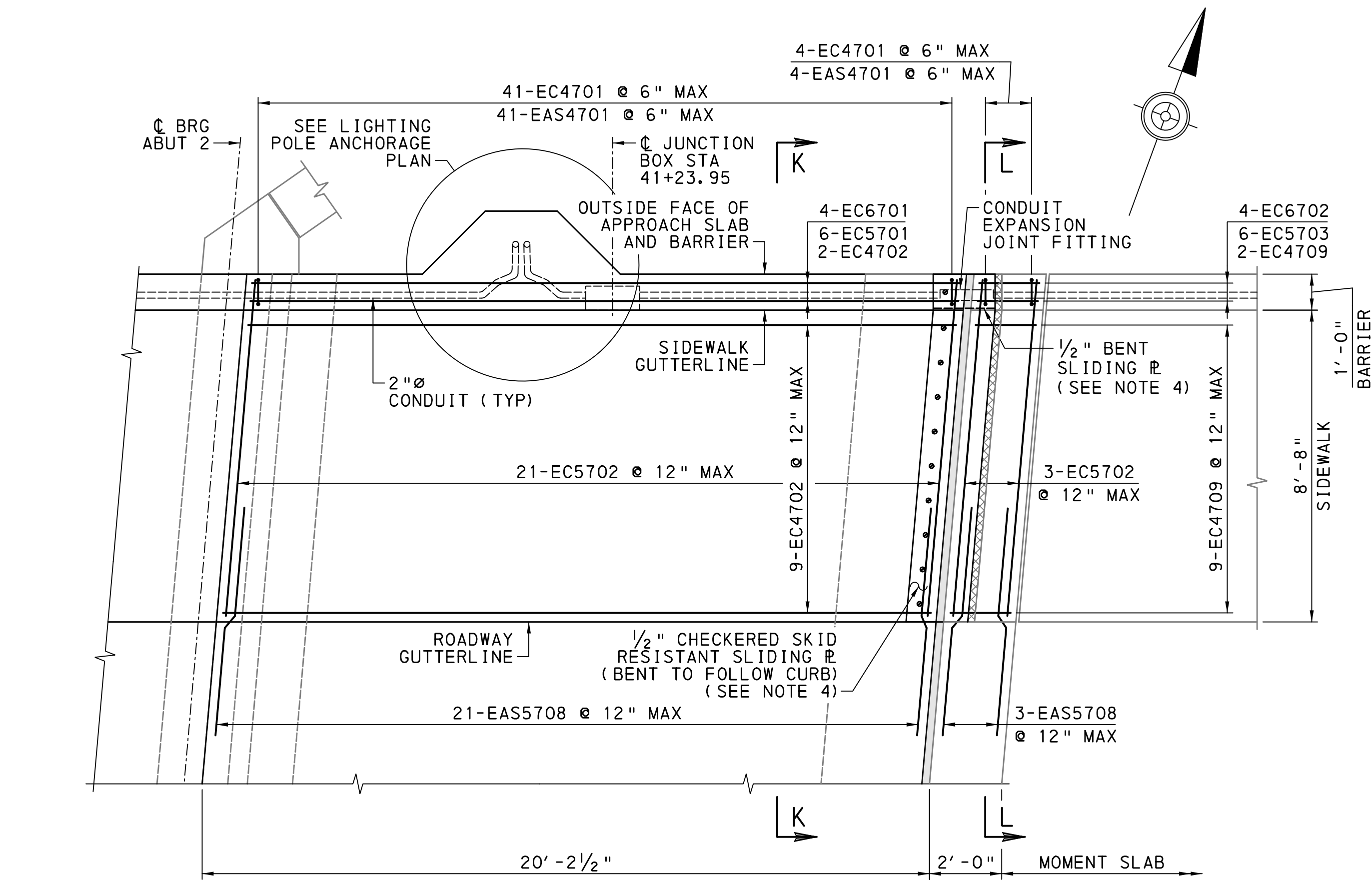


RECOMMENDED 2026.05.15

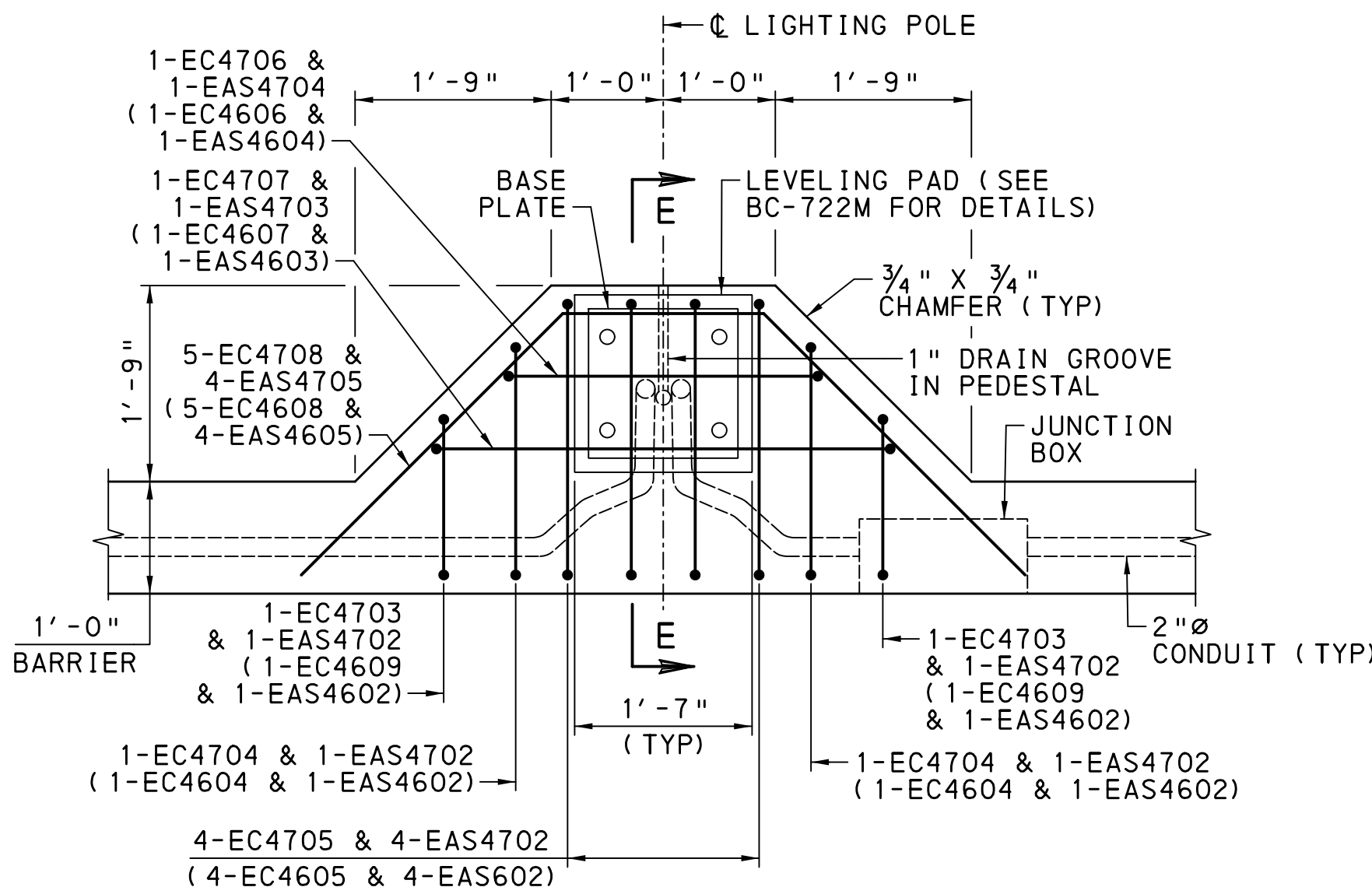
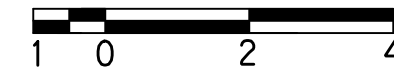
SHEET 72 OF 97

S-42336

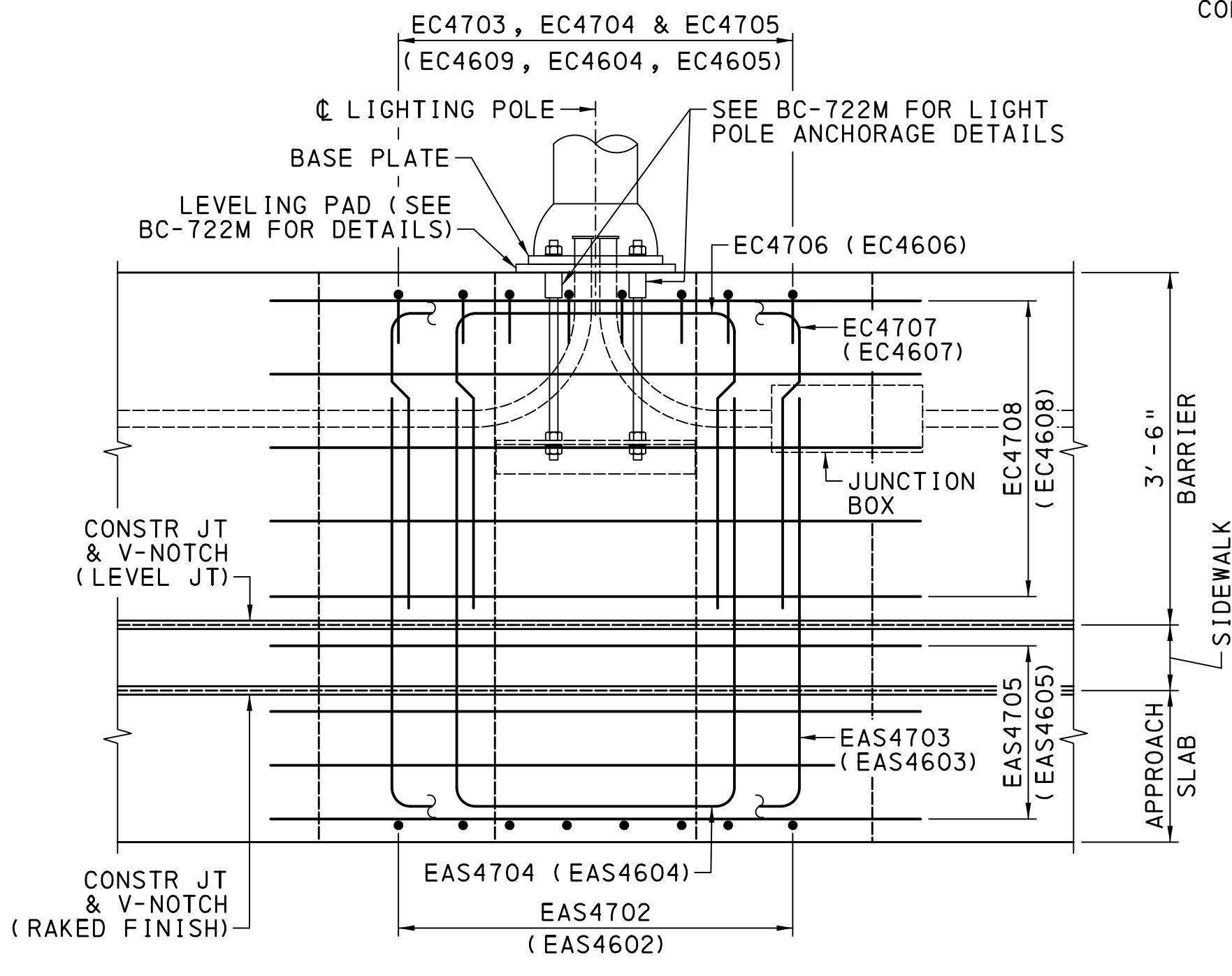
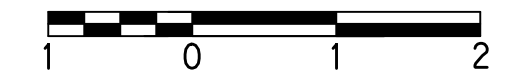
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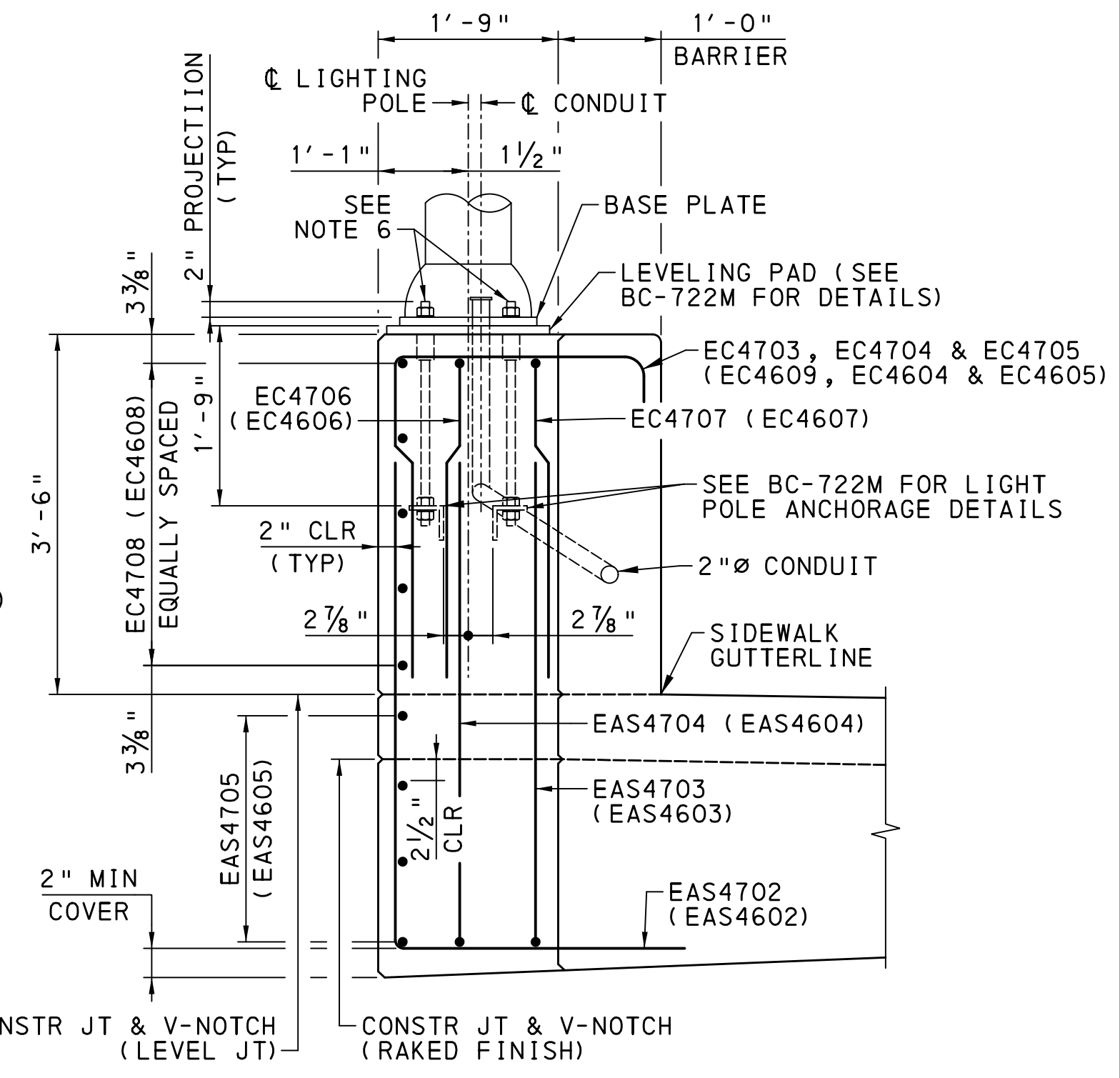
APPROACH SLAB 2 SIDEWALK PLAN



LIGHTING POLE ANCHORAGE PLAN



LIGHTING POLE ANCHORAGE ELEVATION



SECTION E-E



NOTE: VERTICAL WALL BARRIER, SIDEWALK & APPROACH SLAB REINFORCEMENT NOT SHOWN FOR CLARITY

NOTES

- CONDUIT EXPANSION JOINT FITTING IS INCIDENTAL TO 2" DIAMETER CONDUIT.
- LOCATE JUNCTION BOX ON SIDEWALK SIDE OF BARRIER AND PROVIDE TAMPER RESISTANT SCREWS.
- FOR LIGHT POLE ANCHORAGE DETAILS, SEE BC-722M.
- FOR ADDITIONAL DETAILS AND NOTES, SEE BC-767M.
- FOR ADDITIONAL ELECTRICAL DETAILS, SEE BC-752M.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 APPROACH SLAB 2 SIDEWALK PLAN

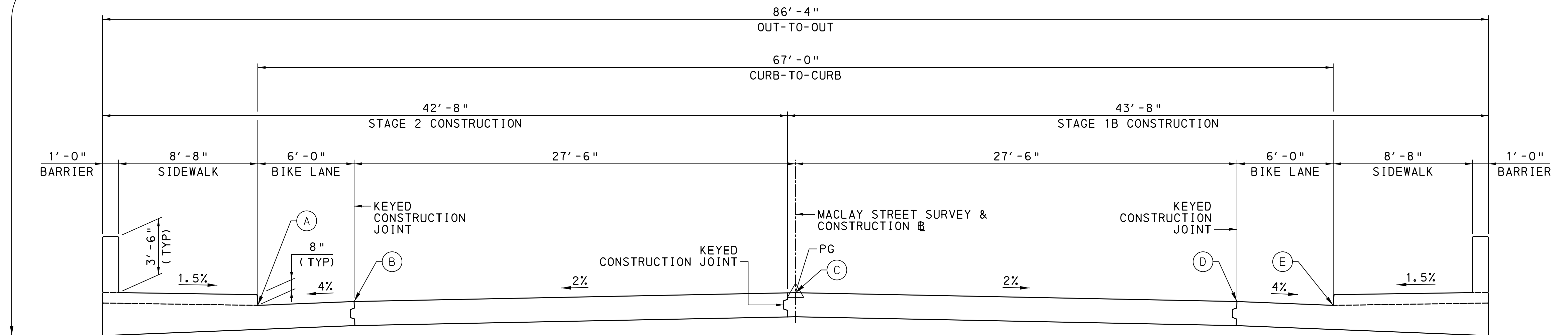
RECOMMENDED 2026.05.15

SHEET 73 OF 97

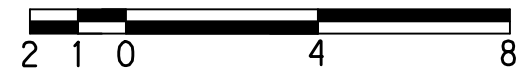
S-42336



LIMITS OF PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES
(PENETRATING SEALER)



APPROACH SLAB TYPICAL SECTION
(LOOKING STATION AHEAD)



APPROACH SLAB 1 ELEVATIONS

STATION	FINAL ELEVATIONS			
	A	B	C	E
35+76.00				
35+76.13				361.29
35+76.64				361.33
35+78.98			362.27	361.48
35+80.00			362.34	361.55
35+81.36		361.88	362.43	361.64
35+81.89	361.68	361.92	362.47	361.92
35+90.00	362.22	362.46	363.01	362.22
36+00.00	362.88	363.12	363.67	362.88
36+05.92	363.28	363.52	364.07	363.28
36+06.05	363.28	363.52	364.07	363.28
36+06.57	363.32	363.56	364.11	363.56
36+08.98	363.48	363.72	364.27	
36+10.00	363.55	363.79		
36+11.38	363.64	363.88		
36+11.91	363.67			

APPROACH SLAB 2 ELEVATIONS

STATION	FINAL ELEVATIONS			
	A	B	C	E
41+06.96				
41+07.09				356.03
41+07.62				355.99
41+10.00				356.05
41+10.02				355.80
41+12.43		355.86	356.41	355.62
41+12.95	355.58	355.82	356.37	355.58
41+20.00	355.04	355.28	355.83	355.04
41+26.96	354.50	354.74	355.29	354.50
41+27.09	354.49	354.73	355.28	354.49
41+27.62	354.45	354.69	355.24	354.69
41+30.00	354.27	354.51	355.06	
41+30.02	354.27	354.51	355.06	
41+32.43	354.08	354.32		
41+32.95	354.04			

REINFORCEMENT BAR SCHEDULE

SLEEPER SLABS

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
SLEEPER SLAB 1																	
ESS5601	5	43'-8"	14	STR													SEE NOTE 4
ESS5602	5	42'-8"	14	STR													SEE NOTE 4
ESS5603	5	8'-0"	89	T1	5 1/2"	1'-6"	2'-0 1/2"	1'-6"	2'-0 1/2"								
ESS8601	8	4'-6"	178	STR													
SLEEPER SLAB 2																	
ESS5701	5	42'-1"	14	STR													SEE NOTE 4
ESS5702	5	42'-8"	14	STR													SEE NOTE 4
ESS5703	5	8'-0"	87	T1	5 1/2"	1'-6"	2'-0 1/2"	1'-6"	2'-0 1/2"								
ESS8701	8	4'-6"	174	STR													

NOTES

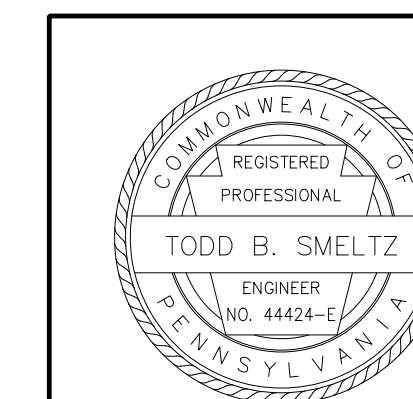
1. FOR REINFORCEMENT BENDS AND NOTES, SEE SHEET 75.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
APPROACH SLAB ELEVATIONS



RECOMMENDED 2026.05.15

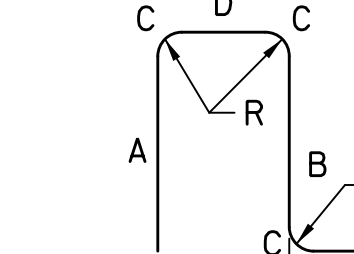
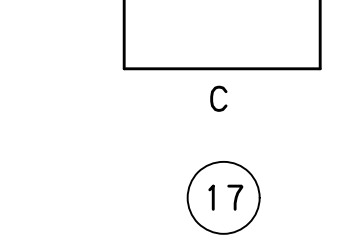
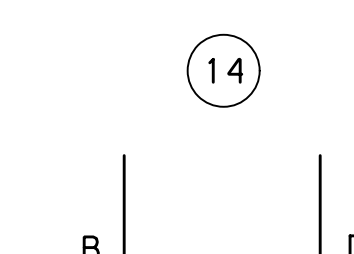
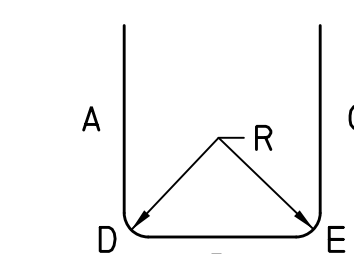
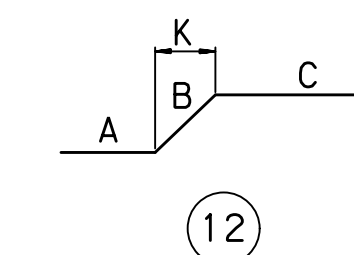
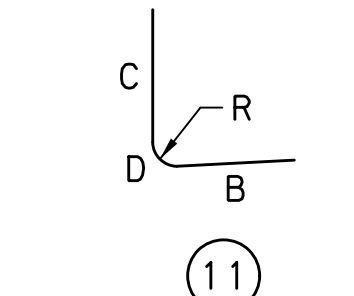
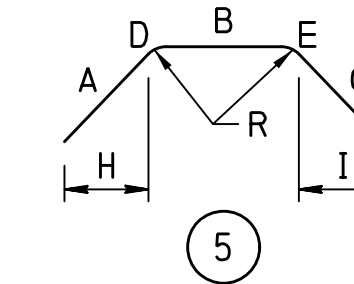
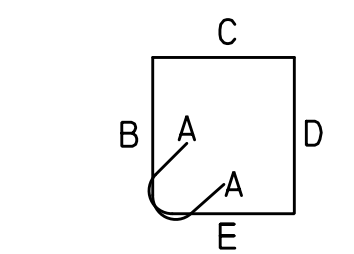
SHEET 74 OF 97

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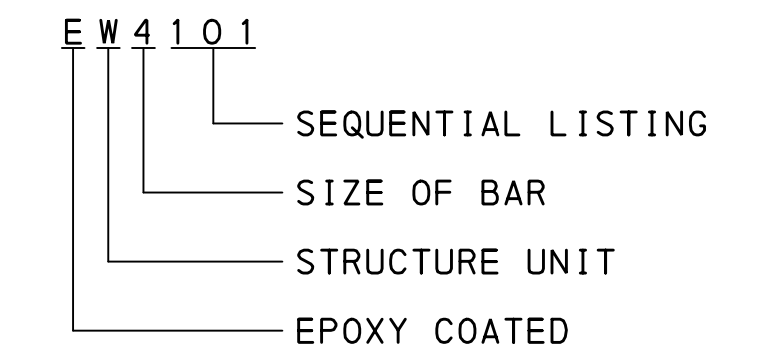
REINFORCEMENT BAR SCHEDULE

APPROACH SLABS

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	R	REMARKS
APPROACH SLAB 1																	
EAS4601	4	9'-8"	110	32	3'-7"	3'-4"	4"	3"	1'-6"	8"						2"	
EAS4602	4	6'-9"	16	11		2'-7 1/2"	3'-9 1/2"	4"								2"	
EAS4603	4	11'-11"	2	14	3'-9 1/2"	3'-8"	3'-9 1/2"	4"	4"							2"	
EAS4604	4	10'-9"	2	14	3'-9 1/2"	2'-6"	3'-9 1/2"	4"	4"							2"	
EAS4605	4	8'-4"	8	5	3'-2"	1'-8"	3'-2"	2"	2"							2"	
EAS5601	5	43'-8"	4	STR													SEE NOTE 4
EAS5602	5	42'-8"	4	STR													SEE NOTE 4
EAS5603	5	15'-4 1/2"	60	STR													
EAS5604	5	27'-9"	30	STR													
EAS5605	5	26'-9"	30	STR													
EAS5606	5	29'-3"	89	STR													
EAS5607	5	7'-4 1/2"	178	17		3'-2"	1'-0 1/2"	3'-2"									
EAS5608	5	7'-8"	68	12	3'-0"	1'-8"	3'-0"								2 1/2"		
EAS6601	6	43'-8"	4	STR													SEE NOTE 4
EAS6602	6	42'-8"	4	STR													SEE NOTE 4
EAS6603	6	15'-4 1/2"	8	STR													
EAS6604	6	27'-9"	4	STR													
EAS6605	6	26'-9"	4	STR													
EAS7601	7	43'-8"	31	STR													SEE NOTE 4
EAS7602	7	42'-8"	31	STR													SEE NOTE 4
EAS10601	10	29'-3"	176	STR													
APPROACH SLAB 2																	
EC4601	4	7'-9 1/2"	110	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"						2"	
EC4602	4	29'-8"	22	STR													
EC4603	4	1'-8"	4	STR													
EC4604	4	5'-4"	4	14	2'-11 1/2"	1'-5"	3 1/2"	4"	4"							2"	
EC4605	4	5'-11"	8	14	2'-11 1/2"	2'-0"	3 1/2"	4"	4"							2"	
EC4606	4	9'-0"	2	14	2'-11"	2'-6"	2'-11"	4"	4"							2"	
EC4607	4	10'-2"	2	14	2'-11"	3'-8"	2'-11"	4"	4"							2"	
EC4608	4	8'-4"	10	5	3'-2"	1'-8"	3'-2"	2"	2"			2'-3"	2'-3"			2"	
EC4609	4	4'-10"	4	14	3'-0"	10 1/2"	3 1/2"	4"	4"							2"	
EC5601	5	29'-5"	12	STR													
EC5602	5	9'-3"	68	STR													
EC5603	5	1'-8"	12	STR													
EC6601	6	29'-5"	8	STR													
EC6602	6	1'-8"	8	STR													
APPROACH SLAB 3																	
EAS4701	4	9'-8"	90	32	3'-7"	3'-4"	4"	3"	1'-6"	8"						2"	
EAS4702	4	6'-9"	32	11		2'-7 1/2"	3'-9 1/2"	4"								2"	
EAS4703	4	11'-11"	2	14	3'-9 1/2"	3'-8"	3'-9 1/2"	4"	4"							2"	
EAS4704	4	10'-9"	2	14	3'-9 1/2"	2'-6"	3'-9 1/2"	4"	4"							2"	
EAS4705	4	8'-4"	8	5	3'-2"	1'-8"	3'-2"	2"	2"			2'-3"	2'-3"			2"	
EAS5701	5	43'-8"	4	STR													SEE NOTE 4
EAS5702	5	42'-8"	4	STR													SEE NOTE 4
EAS5703	5	15'-4 1/2"	40	STR													
EAS5704	5	27'-9"	20	STR													
EAS5705	5	26'-9"	20	STR													
EAS5706	5	19'-6"	89	STR													
EAS5707	5	7'-4 1/2"	178	17		3'-2"	1'-0 1/2"	3'-2"									
EAS5708	5	7'-8"	48	12	3'-0"	1'-8"	3'-0"										
EAS6701	6	42'-1"	4	STR													SEE NOTE 4
EAS6702	6	42'-8"	4	STR													SEE NOTE 4
EAS6703	6	15'-4 1/2"	8	STR													
EAS6704	6	27'-9"	4	STR													
EAS6705	6	26'-9"	4	STR													
EAS7701	7	43'-8"	21	STR													SEE NOTE 4
EAS7702	7	42'-8"	21	STR													SEE NOTE 4
EAS10701	10	19'-6"	176	STR													
APPROACH SLAB 4																	
EC4701	4	7'-9 1/2"	90	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"						2"	
EC4702	4	19'-8"	22	STR													
EC4703	4	4'-10"	4	14	3'-0"	10 1/2"	3 1/2"	4"	4"							2"	
EC4704	4	5'-4"	4	14	2'-11 1/2"	1'-5"	3 1/2"	4"	4"							2"	
EC4705	4	5'-11"	8	14	2'-11 1/2"	2'-0"	3 1/2"	4"	4"							2"	
EC4706	4	9'-0"	2	14	2'-11"	2'-6"	2'-11"	4"	4"							2"	
EC4707	4	10'-2"	2	14	2'-11"	3'-8"	2'-11"	4"	4"							2"	
EC4708	4	8'-4"	10	5	3'-2"	1'-8"	3'-2"	2"	2"			2'-3"	2'-3"			2"	
EC4709	4	1'-8"	22	STR													
EC5701	5	19'-8"	12	STR													
EC5702	5	9'-3"	48	STR													
EC5703	5	1'-8"	12	STR													
EC6701	6	19'-8"	8	STR													
EC6702	6	1'-8"	8	STR													



EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

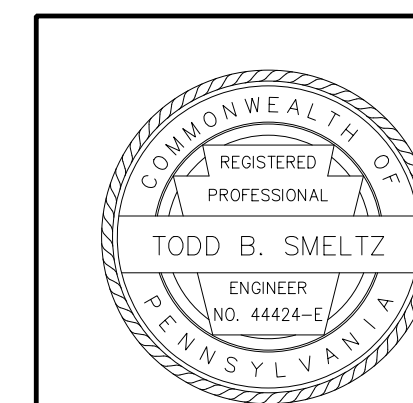
- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "C" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR.
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- BAR LENGTHS GIVEN ARE MEASURED FROM STAGED CONSTRUCTION JOINT TO END OF BAR. TOTAL BAR LENGTH MUST BE INCREASED OR DECREASED TO ACCOMMODATE CONTRACTOR'S MECHANICAL SPLICE SYSTEM.

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

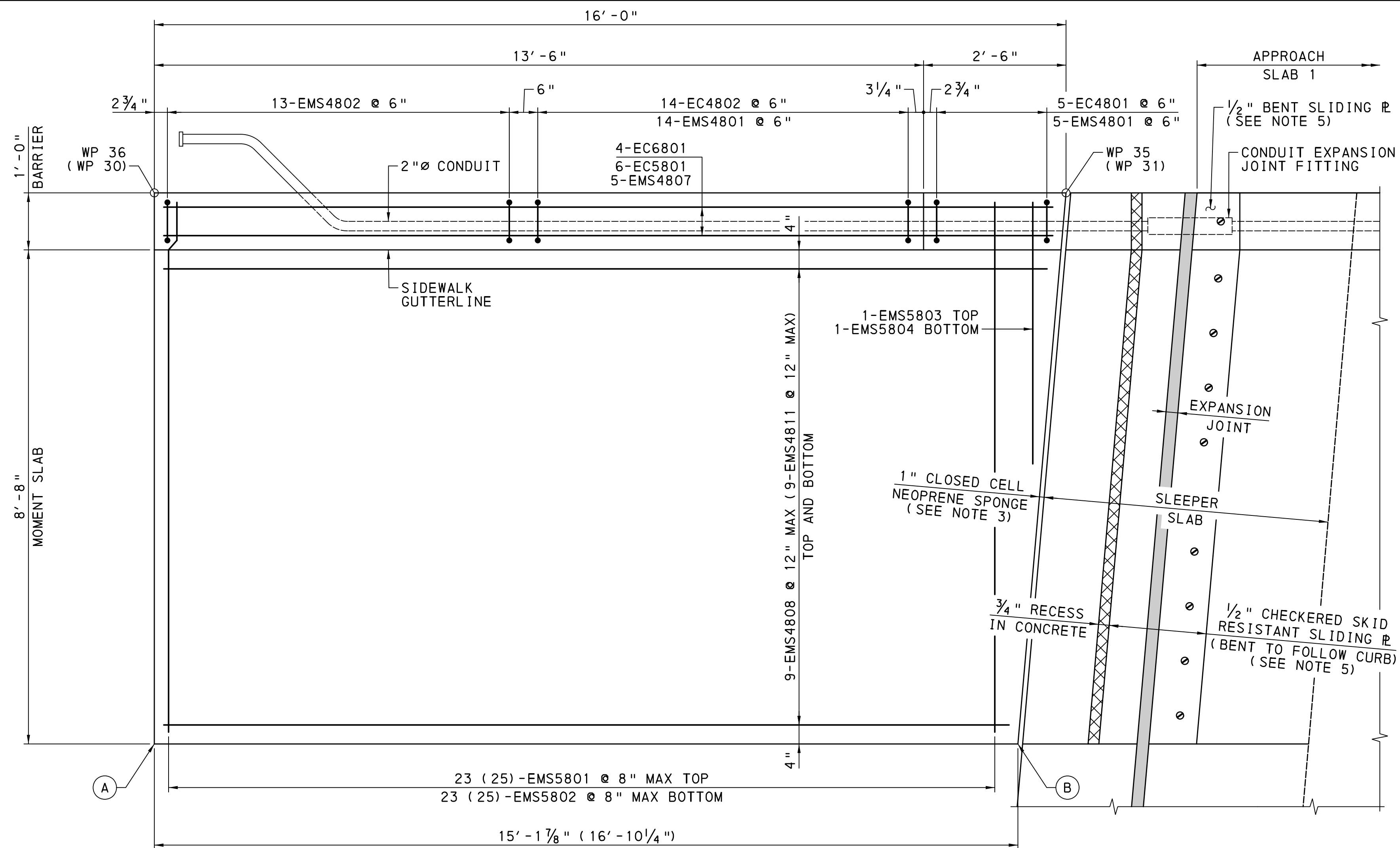
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
APPROACH SLAB REINFORCEMENT BAR SCHEDULE



RECOMMENDED 2026.05.15

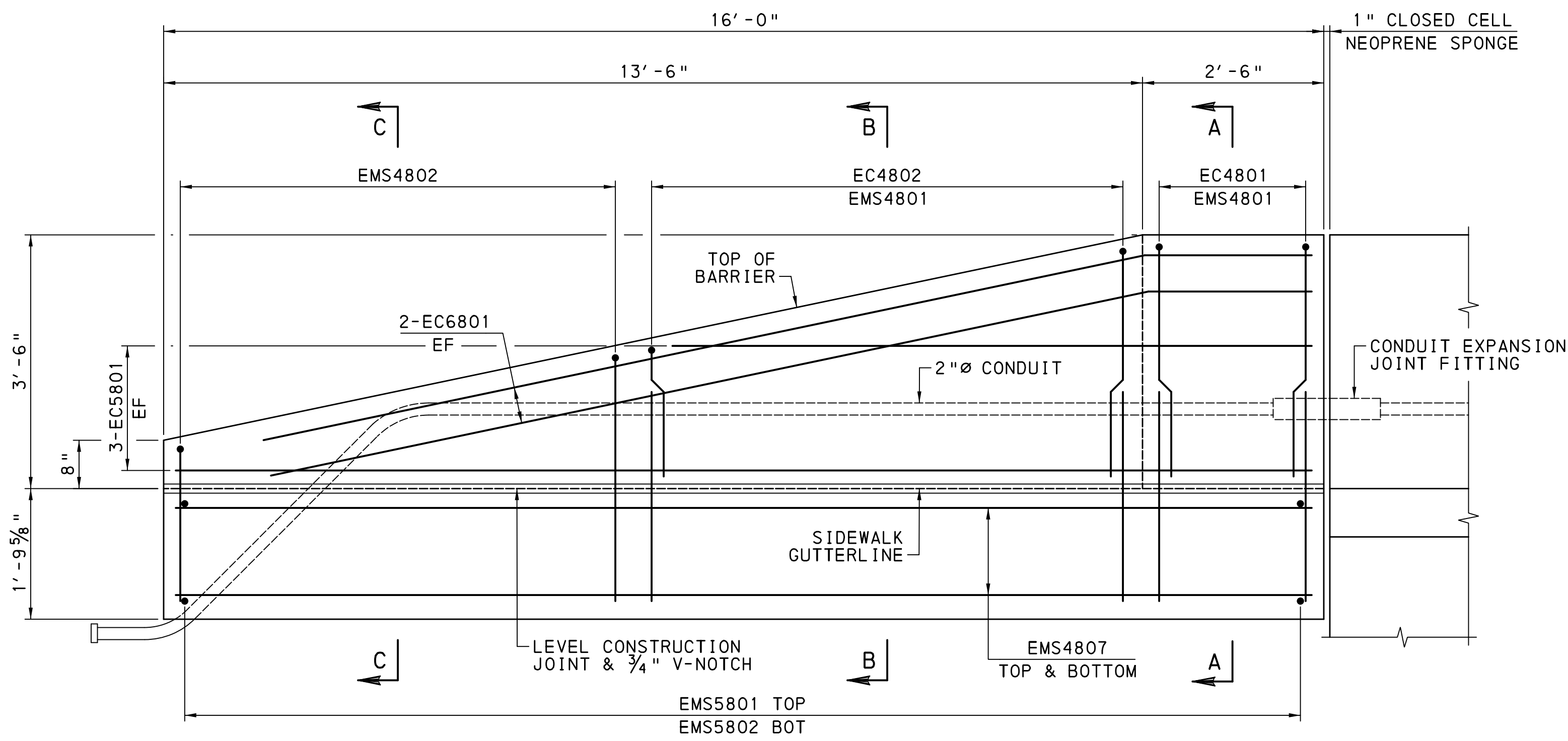
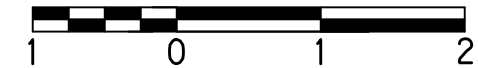
SHEET 75 OF 97

S-42336



MOMENT SLAB PLAN

(MOMENT SLAB B SHOWN, MOMENT SLAB A SIMILAR EXCEPT AS NOTED IN ())



TYPICAL MOMENT SLAB ELEVATION



MOMENT SLAB GUTTERLINE ELEVATIONS			
	STATION	A	B
MOMENT SLAB A	35+57.22	360.03	---
	35+73.87	---	361.14
MOMENT SLAB B	35+64.39	360.51	---
	35+79.71	---	361.53

NOTES

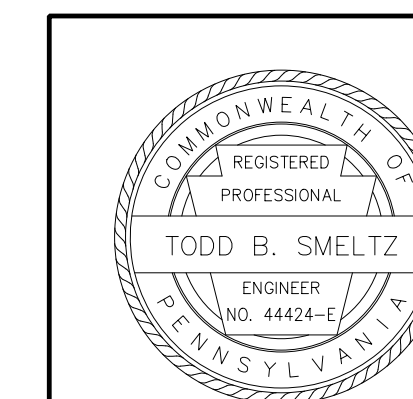
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
- FOR SECTIONS A-A, B-B & C-C, SEE SHEET 77.
- CLOSED CELL NEOPRENE SPONGE IS INCIDENTAL TO CLASS AA CEMENT CONCRETE.
- FOR CONDUIT DETAILS AT END OF BRIDGE, SEE BC-721M.
- FOR ADDITIONAL DETAILS AND NOTES, SEE BC-767M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

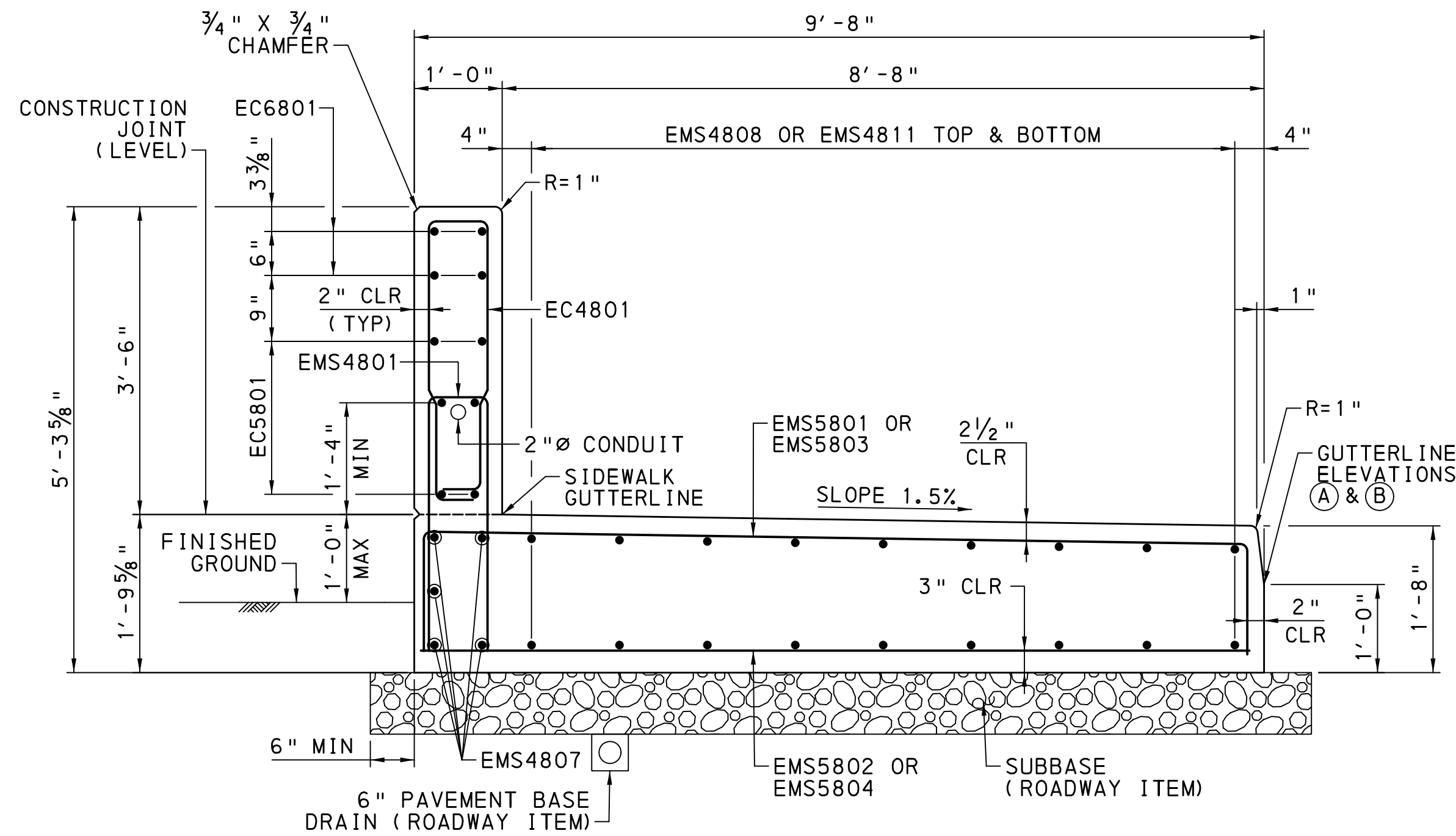
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 MOMENT SLABS A & B PLAN & ELEV



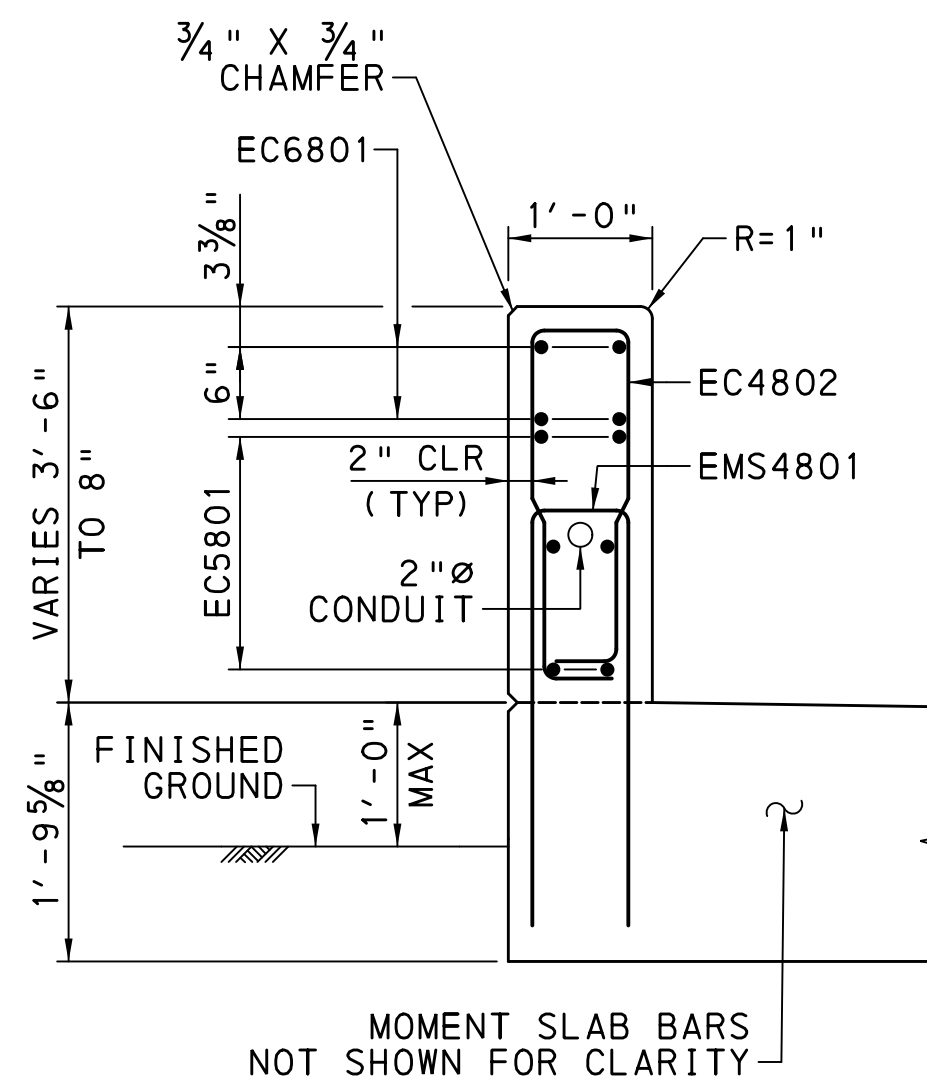
RECOMMENDED 2026.05.15

SHEET 76 OF 97

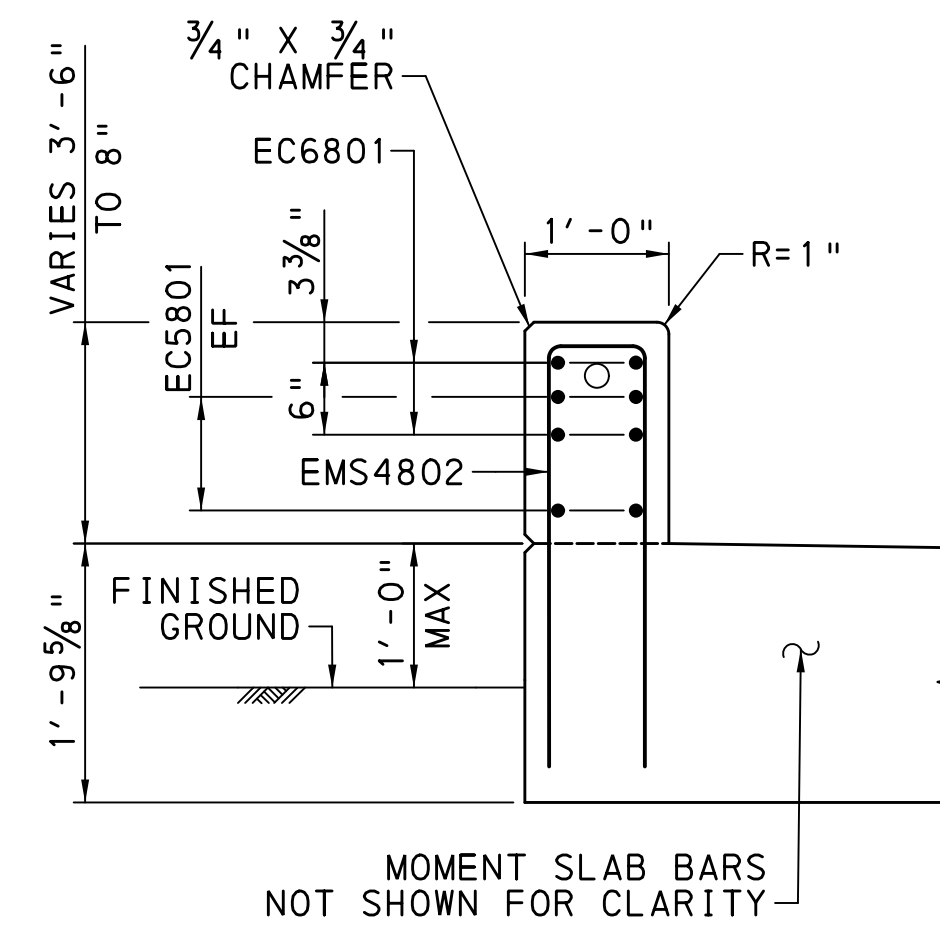
S-42336



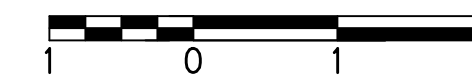
SECTION A-A (SHEET 76)



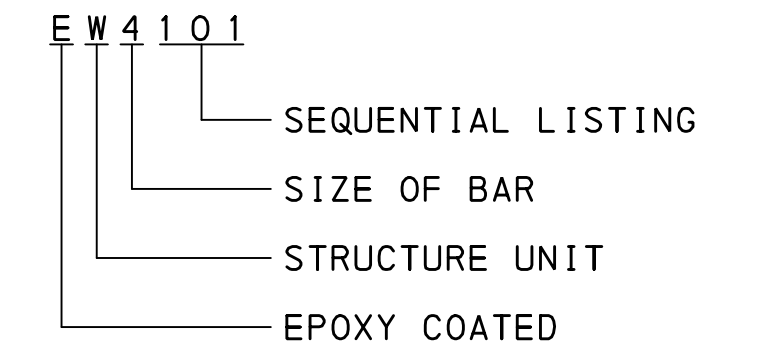
SECTION B-B (SHEET 76)



SECTION C-C (SHEET 76)



EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH 99
ABUTMENT 1:	101 THROUGH 199
ABUTMENT 2:	201 THROUGH 299
PIER 1:	301 THROUGH 399
PIER 2:	401 THROUGH 499
PIER 3:	501 THROUGH 599
APPROACH SLAB 1:	601 THROUGH 699
APPROACH SLAB 2:	701 THROUGH 799
MOMENT SLAB:	801 THROUGH 899

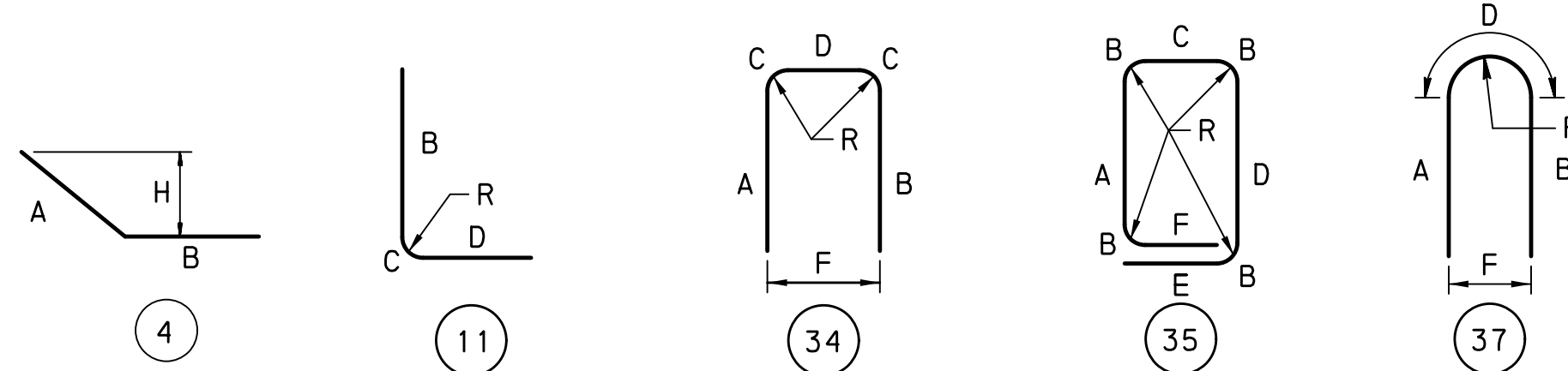
NOTES

- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
- FOR MOMENT SLAB GUTTERLINE ELEVATIONS A & B, SEE SHEETS 76.
- CLOSED CELL NEOPRENE SPONGE IS INCIDENTAL TO CLASS AA CEMENT CONCRETE.

REINFORCEMENT BAR SCHEDULE

MOMENT SLABS A & B

MARK	SIZE	LENGTH	NO. A	NO. B	TYPE	A	B	C	D	E	F	G	H	I	J	K	I	REMARKS
MOMENT SLAB																		
EMS4801	4	6'-5 3/4"	19	19	34	2'-10"	2'-10"	2 3/8"	5"		8"							R=1"
EMS4802	4	VARIES 7'-3 3/4" TO 4'-7 3/4"	13	13	34	3'-3" TO 1'-11"	3'-3" TO 1'-11"	2 3/8"	5"		8"							R=1" VARY 'A' & 'B' BY 1/4" - 1 EA
EMS4807	4	15'-7"	5	5	STR													
EMS4808	4	VARIES 14'-10" TO 15'-6"		18	STR													VARY BY 1" - 2 EA
EMS4811	4	VARIES 15'-9" TO 16'-5"	18		STR													VARY BY 1" - 2 EA
EMS5801	5	12'-0 1/2"	23	25	34	1'-3 1/4"	1'-2"	2"	9'-3 1/4"		9'-5 1/4"							R=1"
EMS5802	5	9'-4"	23	25	STR													
EMS5803	5	6'-0 1/4"	1	1	11		4'-7"	2"	1'-3 1/4"									R=1"
EMS5804	5	4'-7"	1	1	STR													
BARRIER																		
EC6801	6	14'-8"	4	4	4	2'-3"	12'-5"											2'-6 5/8"
EC5801	5	VARIES 8'-11" TO 15'-8"	6	6	STR													VARY BY 3'-5" - 2 EA
EC4801	4	7'-9 1/2"	5	5	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"							R=2"
EC4802	4	VARIES 7'-5 1/2" TO 4'-9"	14	14	35	2'-7" TO 1'-2 3/4"	4"	3"	2'-7" TO 1'-2 3/4"	5 1/2"	3"							VARY 'A' & 'D' BY 1/4" - 1 EA

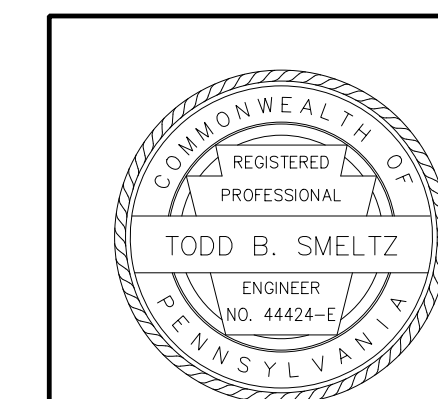


Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

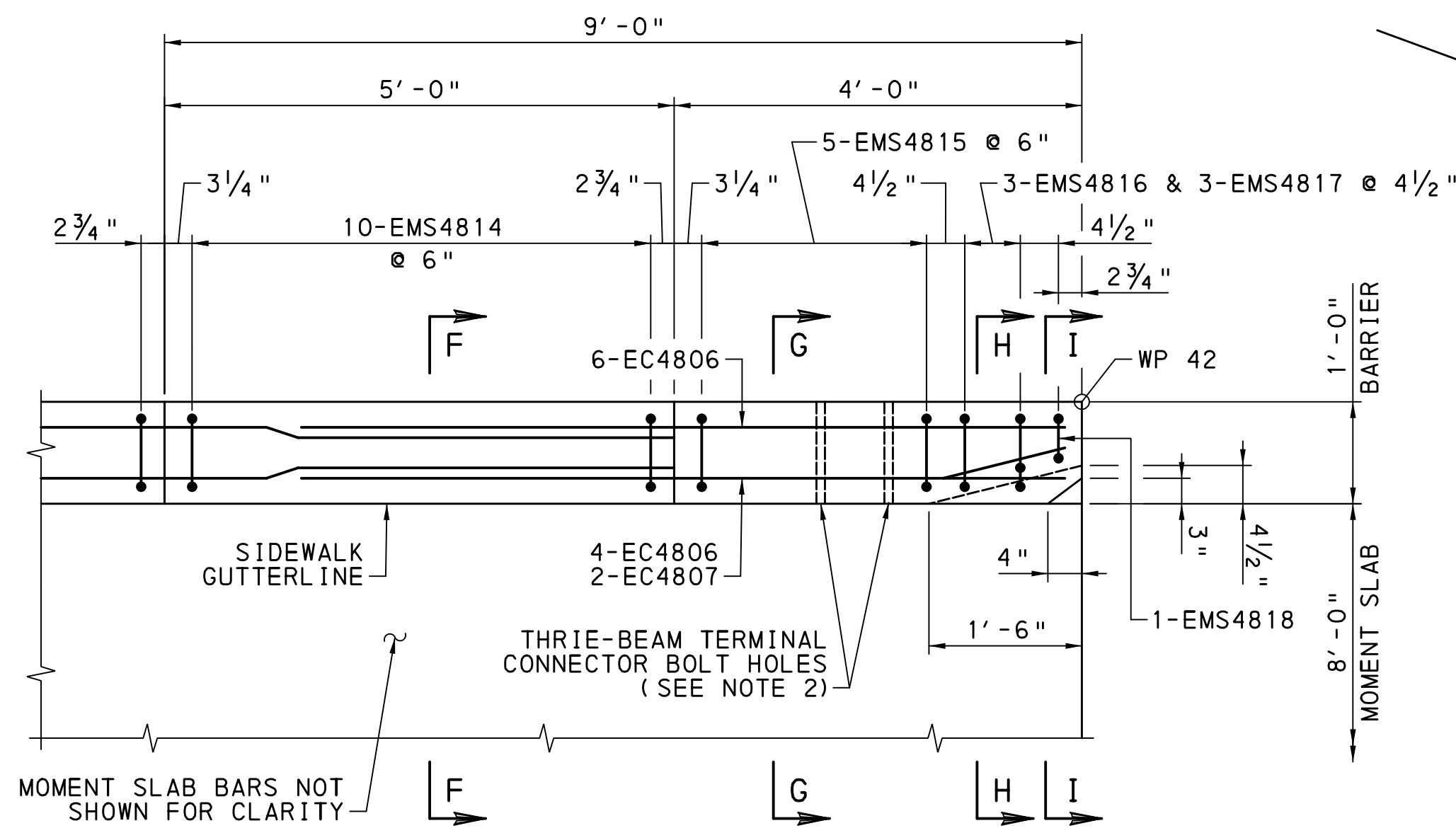
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLABS A & B REINF BAR SCHEDULE



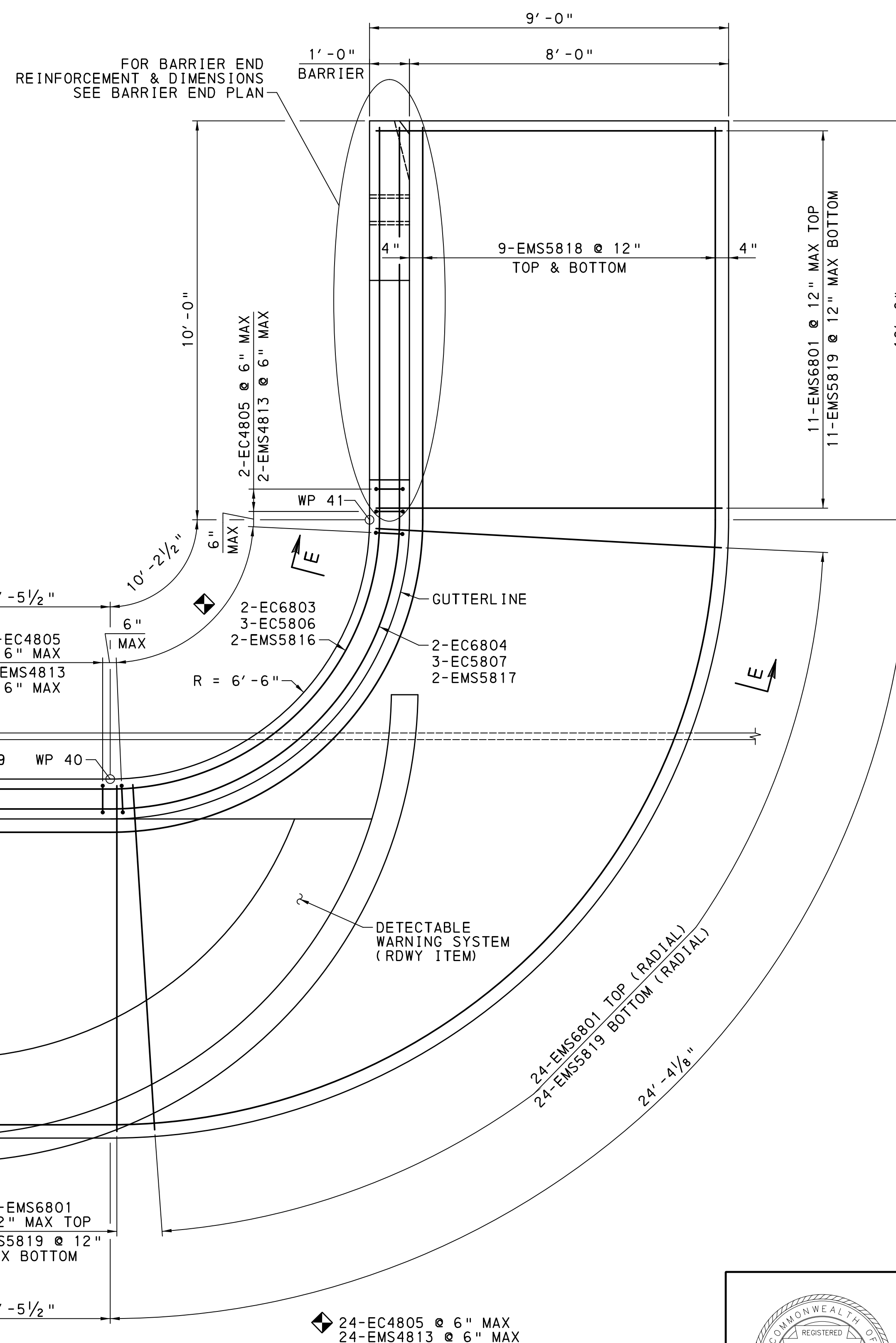
RECOMMENDED 2026.05.15

SHEET 77 OF 97

S-42336



MOMENT SLAB C BARRIER END PLAN



MOMENT SLAB C PLAN



MOMENT SLAB GUTTERLINE ELEVATIONS			
MOMENT SLAB C	STATION	A	B
	41+35.31	353.87	---
	41+50.46	---	352.71

NOTES

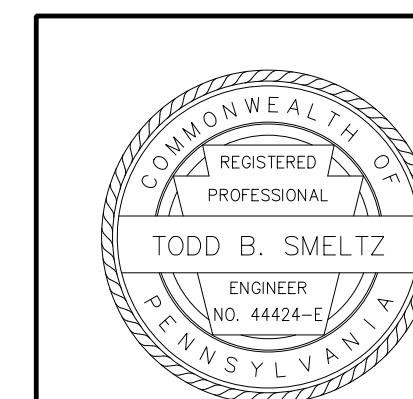
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
- FOR THRIE-BEAM TERMINAL CONNECTOR DETAILS AND NOTES, SEE RC-50M.
- FOR SECTION D-D, SEE SHEET 79.
- FOR SECTIONS E-E, F-F, G-G, H-H & I-I, SEE SHEET 80.
- CLOSED CELL NEOPRENE SPONGE IS INCIDENTAL TO CLASS AA CEMENT CONCRETE.
- FOR MOMENT SLAB ELEVATION, SEE SHEET 79.
- FOR CONDUIT DETAILS AT END OF BRIDGE, SEE BC-721M.
- FOR ADDITIONAL DETAILS AND NOTES, SEE BC-767M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

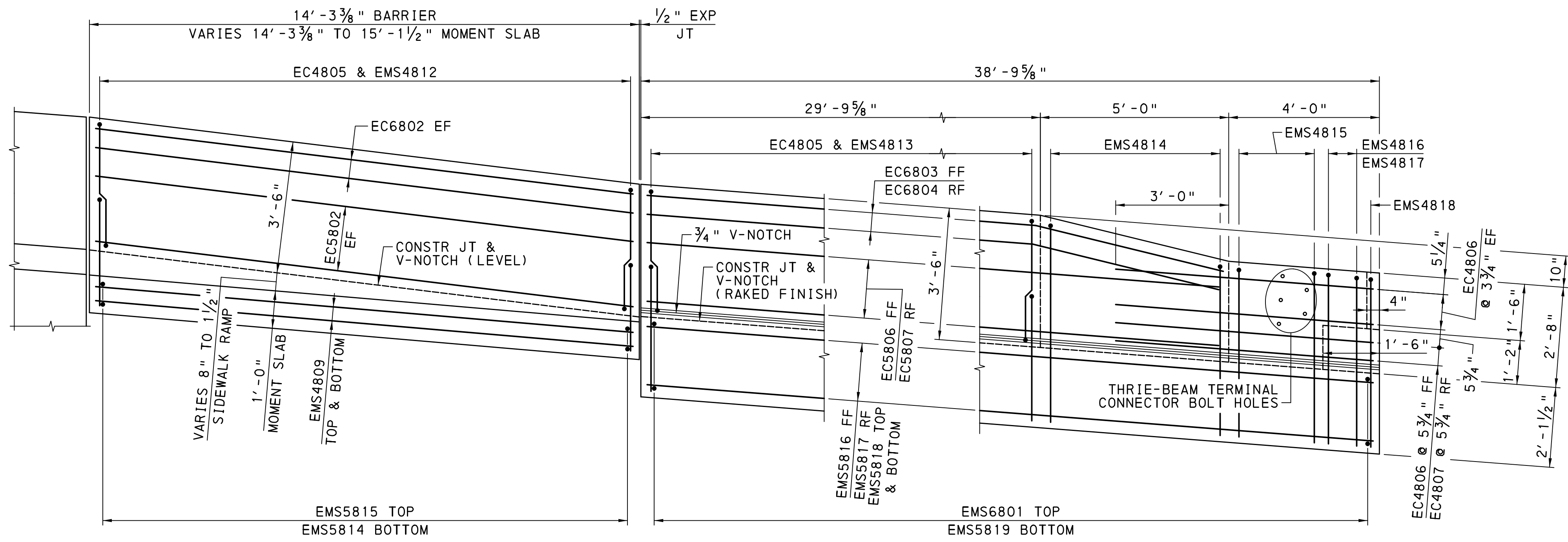
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLAB C PLAN



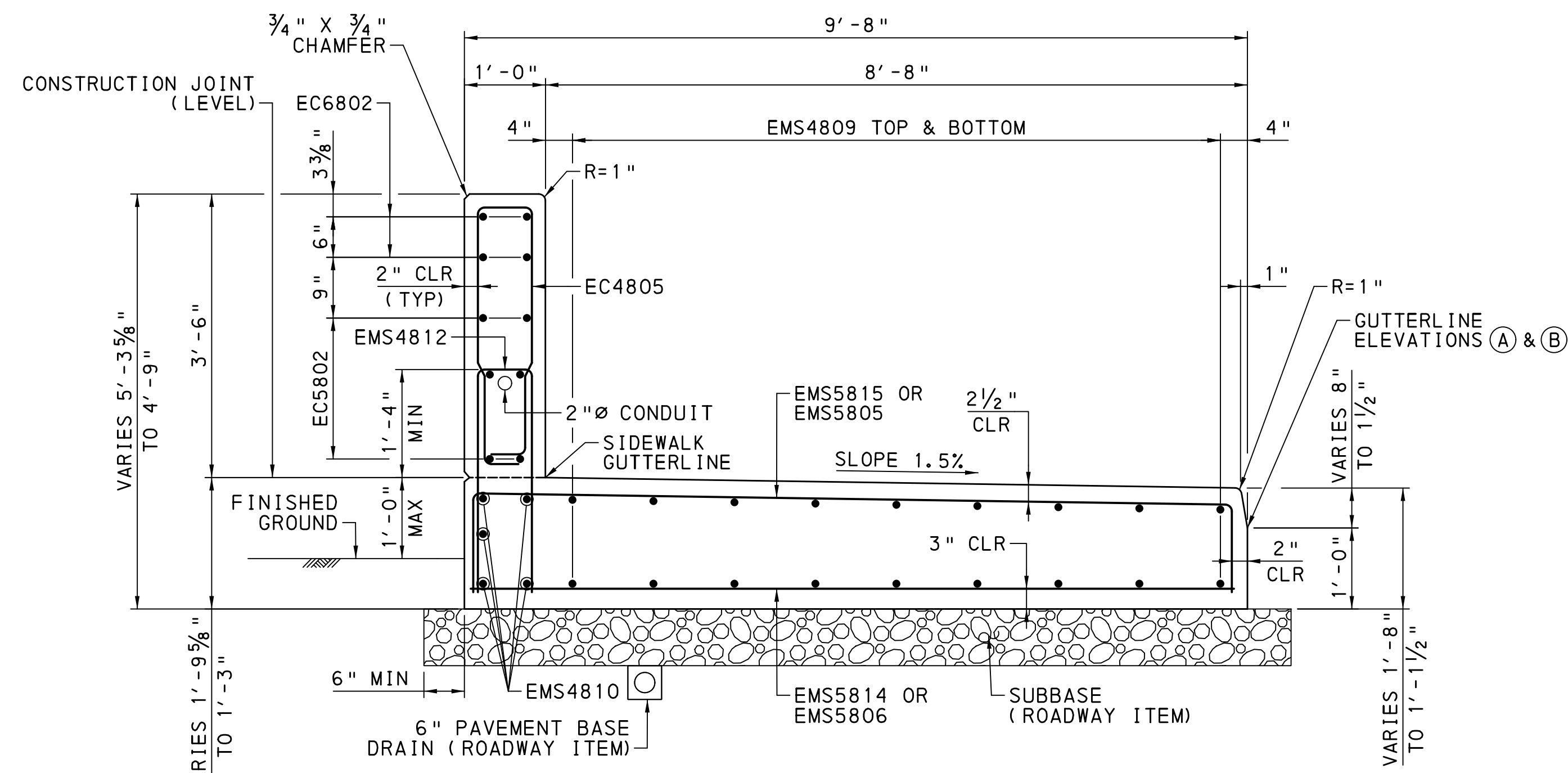
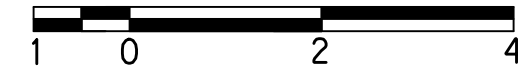
RECOMMENDED 2026.05.15

SHEET 78 OF 97

S-42336



MOMENT SLAB C ELEVATION



SECTION D-D (SHEET 78)



NOTES

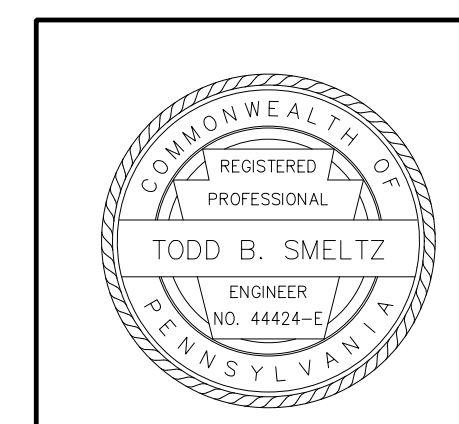
1. FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
2. FOR BARRIER TO GUIDE RAIL TRANSITION DETAILS, SEE RC-50M.

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLAB C ELEVATION



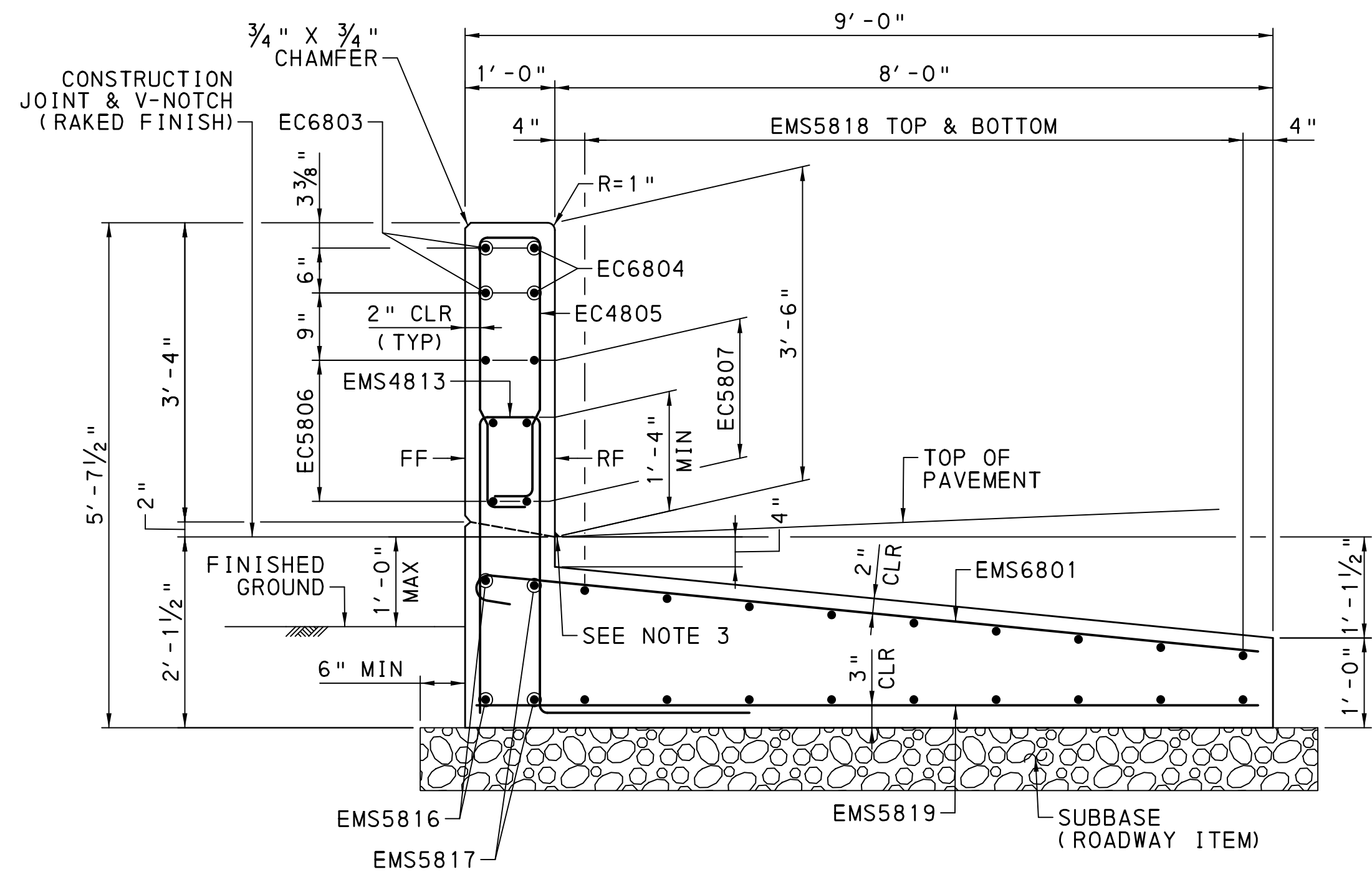
RECOMMENDED 2026.05.15

SHEET 79 OF 97

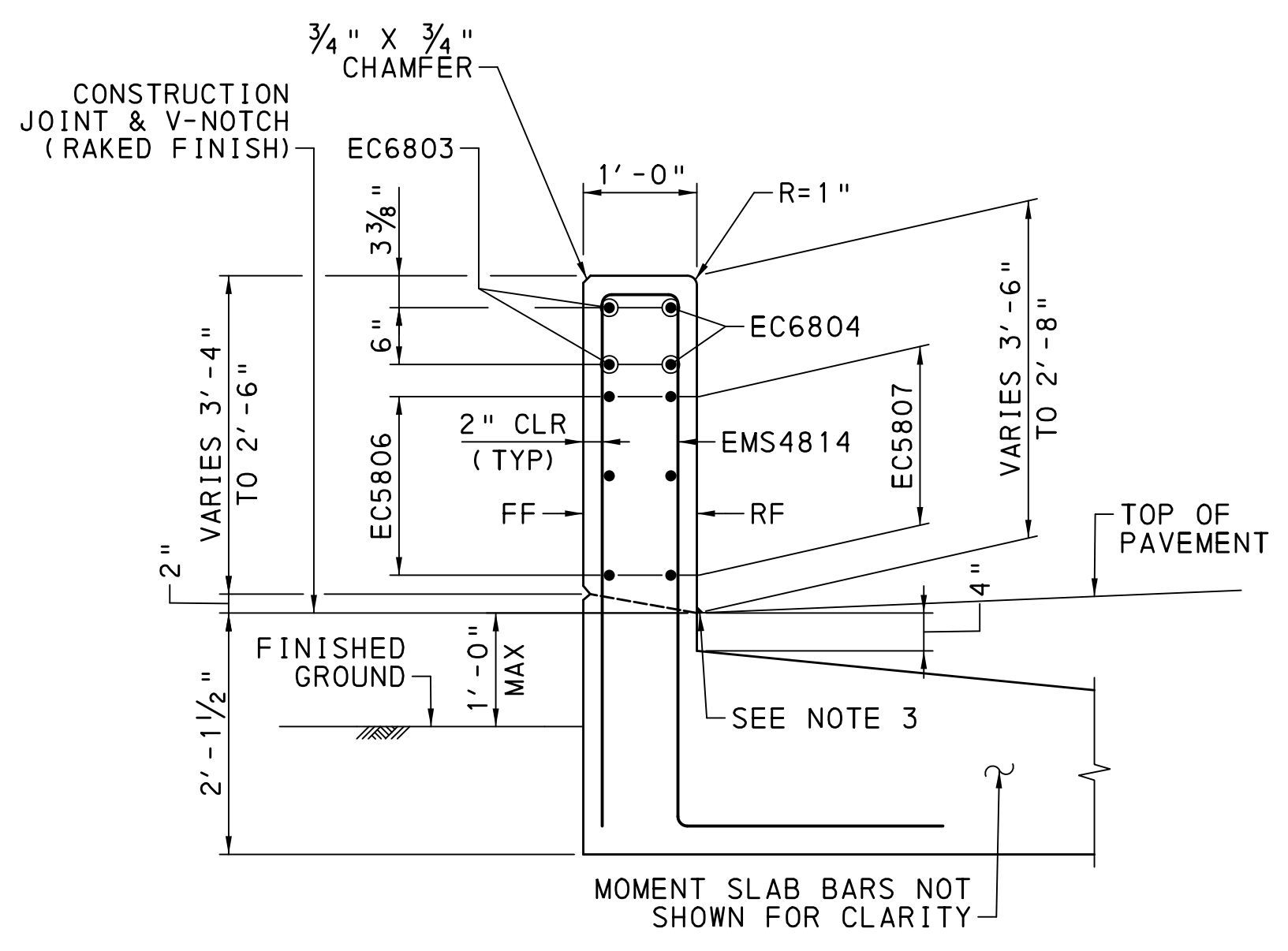
S-42336

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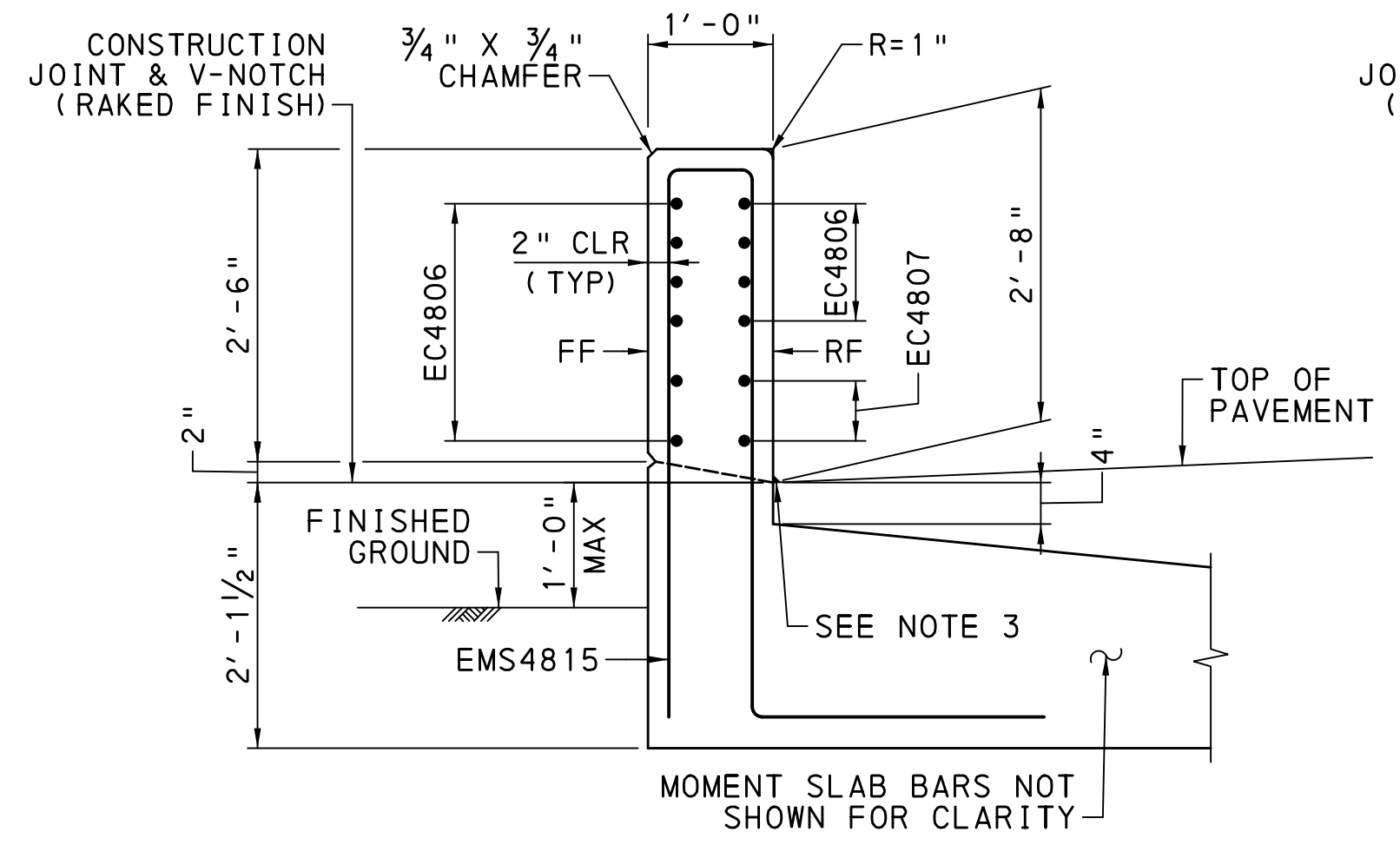
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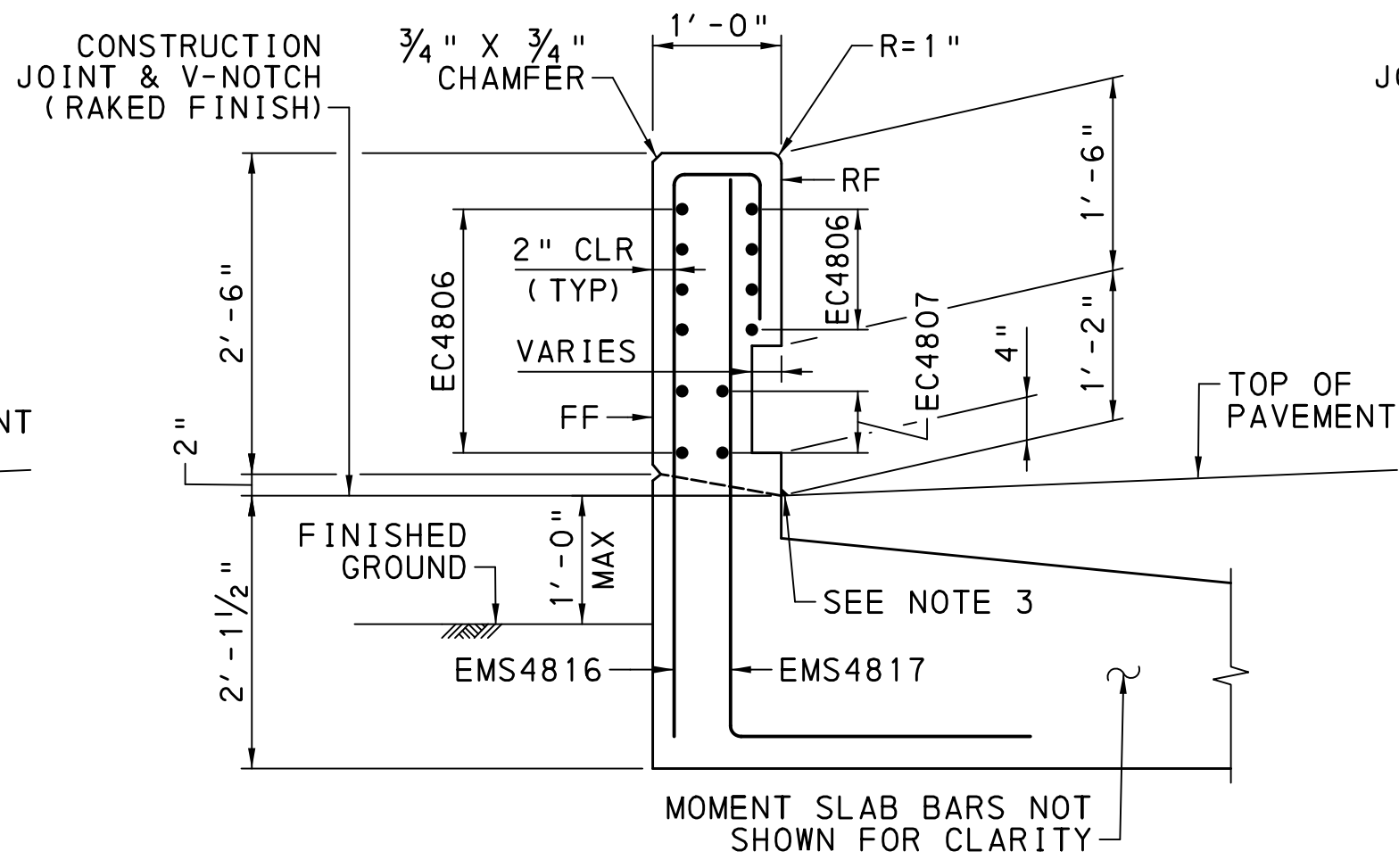
SECTION E-E (SHEET 78)
 1 0 1 2



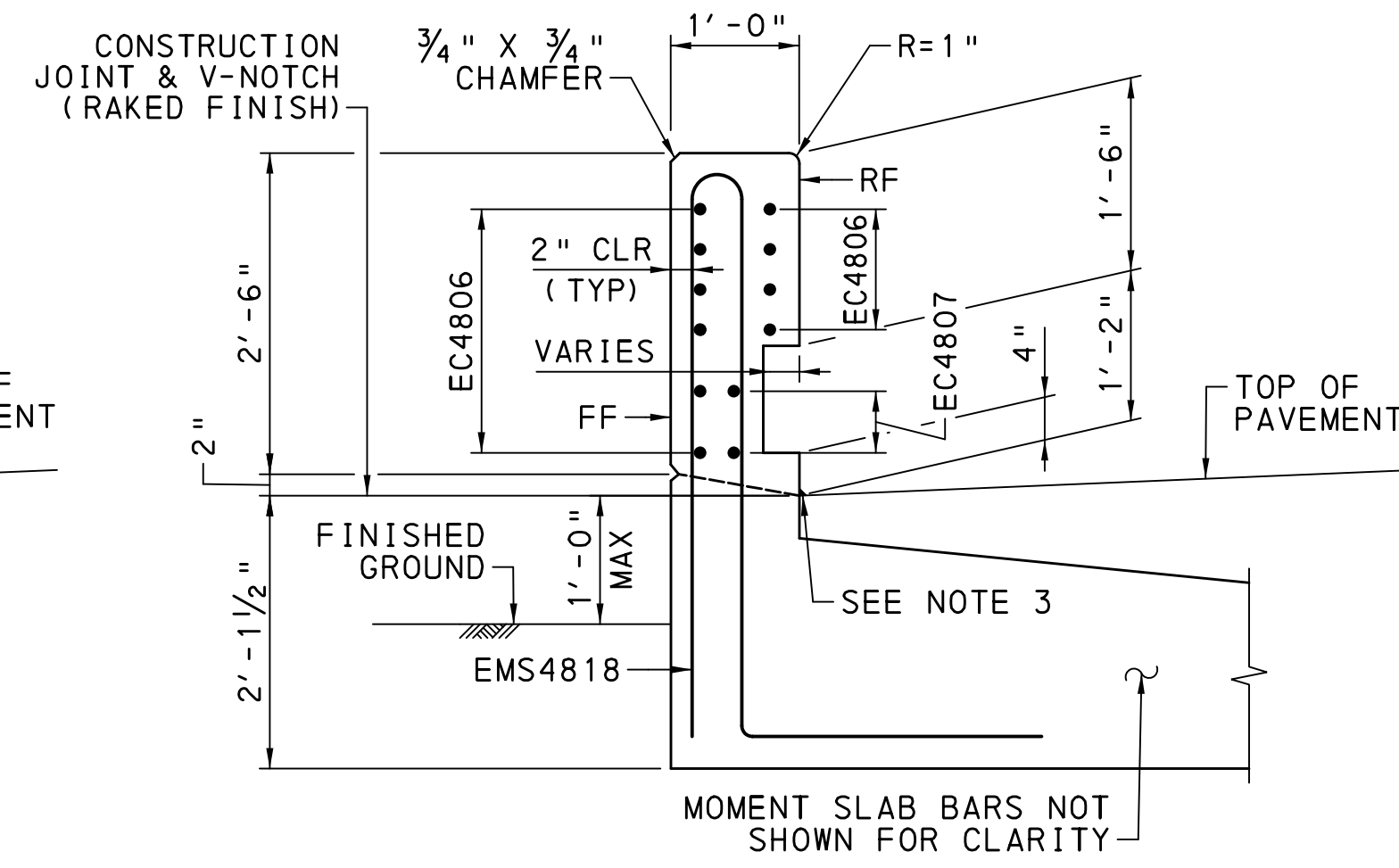
SECTION F-F (SHEET 78)
 1 0 1 2



SECTION G-G (SHEET 78)
 1 0 1 2



SECTION H-H (SHEET 78)
 1 0 1 2



SECTION I-I (SHEET 78)
 1 0 1 2

- NOTES**
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
 - FOR BARRIER TO GUIDE RAIL TRANSITION DETAILS, SEE RC-50M.
 - ASPHALT RUBBER SEALING COMPOUND [PUB. 408, SECTION 705.4(g)]

Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 0001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLAB C TYPICAL SECTIONS



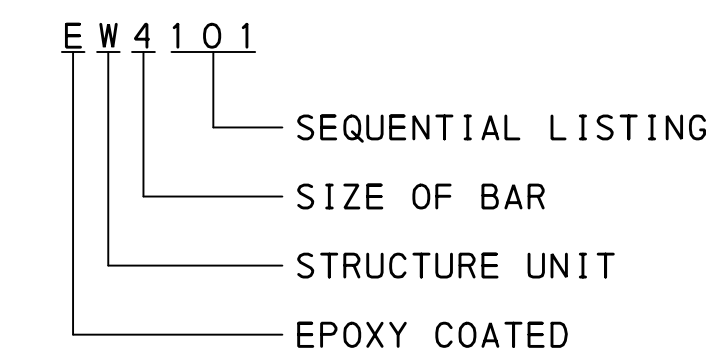
RECOMMENDED 2026.05.15 SHEET 80 OF 97

REINFORCEMENT BAR SCHEDULE

MOMENT SLAB C

MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	I	REMARKS
MOMENT SLAB																	
EMS4809	4	VARIABLES 14'-0" TO 14'-8"	18	STR													VARY BY 1" - 2 EA
EMS4810	4	13'-11"	5	STR													
EMS4812	4	VARIABLES 6'-2 3/8" TO 5'-0 1/8"	30	34	2'-9 1/2" TO 2'-2 3/4"	2'-9 1/2" TO 2'-3 1/2"	2 3/8"	5"		8"							R=1"
EMS4813	4	9'-5 5/8"	35	32	3'-1 1/4"	3'-1 1/4"	2 3/8"	5"	2'-3"	8"							R=1"
EMS4814	4	VARIABLES 13'-5 5/8" TO 11'-9 5/8"	10	32	4'-3 1/4" TO 5'-1 1/4"	4'-3 1/4" TO 5'-1 1/4"	2 3/8"	5"	2'-3"	8"							R=1"
EMS4815	4	11'-9 5/8"	5	32	4'-3 1/4"	4'-3 1/4"	2 3/8"	5"	2'-3"	8"							R=1"
EMS4816	4	6'-1 1/2"	3	34	4'-3 1/4"	1'-0 1/2"	2 3/8"	5"		8"							R=1"
EMS4817	4	6'-8 5/8"	3	11					2'-3"								R=1"
EMS4818	4	11'-5 1/8"	1	32	4'-3 1/4"	4'-3 1/4"	2 3/8"	1/2"	2'-3"	3 1/2"							R=1"
EMS5805	5	4'-0 1/4"	1	11													R=1"
EMS5806	5	2'-7"	1	STR													
EMS5814	5	9'-4"	22	STR													
EMS5815	5	VARIABLES 11'-10 1/2" TO 10'-9"	22	34	1'-3 1/4" TO 8 1/2"	1'-2" TO 7 1/4"	2"	9'-3 1/4"		9'-5 1/4"							VARY 'A' & 'B' BY 5/16" - 1 EA R=1"
EMS5816	5	24'-8 1/2"	2	16	4'-3 1/2"			9'-10"									
EMS5817	5	25'-5 1/2"	2	16	4'-3 1/2"	11'-4"	9'-10"										
EMS5818	5	VARIABLES 26'-4 1/2" TO 37'-10 1/2"	18	16	4'-3 1/2"	12'-3" TO 23'-9"	9'-10"										VARY 'B' BY 1'-5 1/4" - 1 EA R=1"
EMS5819	5	8'-8"	42	STR													
EMS6801	6	9'-4"	42	1	8"	8'-8"											
BARRIER																	
EC4805	4	7'-9 1/2"	65	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"							R=2"
EC4806	4	6'-10"	10	STR													
EC4807	4	6'-10 5/8"	2	4	1'-5"	5'-5 5/8"						3 5/8"					
EC5802	5	13'-11"	6	STR													
EC5806	5	20'-10 1/2"	3	16	4'-3 1/2"	10'-7"	6'-0"										
EC5807	5	21'-7 1/2"	3	16	4'-3 1/2"	11'-4"	6'-0"										
EC6802	6	13'-11"	4	STR													
EC6803	6	20'-11 1/2"	2	16A	4'-3 1/2"	10'-7"	1'-0"	5'-1"				7 3/16"					
EC6804	6	21'-8 1/2"	2	16A	4'-3 1/2"	11'-4"	1'-0"	5'-1"				7 3/16"					

EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

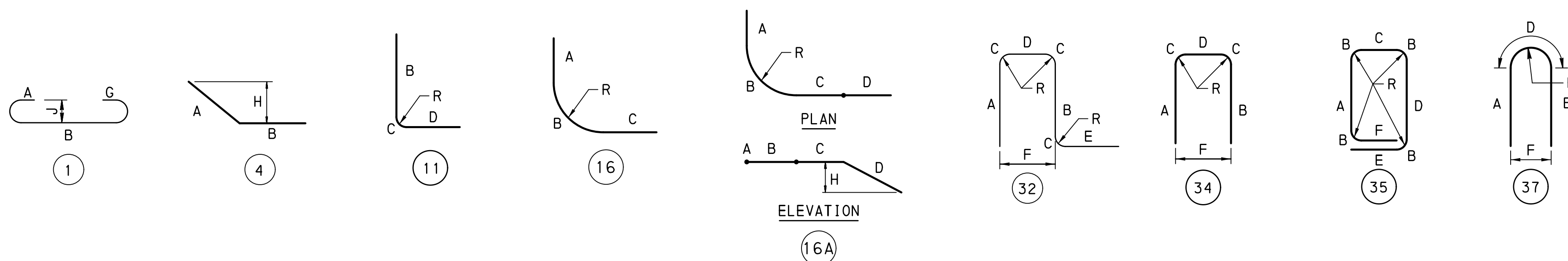
- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- S - DECK SLAB
- MS - MOMENT SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
- P - PIER

SEQUENTIAL LISTINGS:

SUPERSTRUCTURE:	01 THROUGH	99
ABUTMENT 1:	101 THROUGH	199
ABUTMENT 2:	201 THROUGH	299
PIER 1:	301 THROUGH	399
PIER 2:	401 THROUGH	499
PIER 3:	501 THROUGH	599
APPROACH SLAB 1:	601 THROUGH	699
APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

- ALL DIMENSIONS ARE OUT-TO-OUT OF BAR EXCEPT "A" OR "G" ON STANDARD 180° OR 135° HOOKS. "R" IS MEASURED ALONG INSIDE OF BAR
- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.

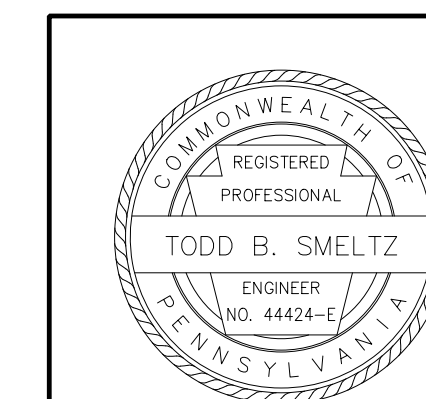


Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

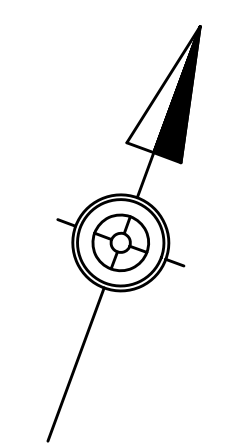
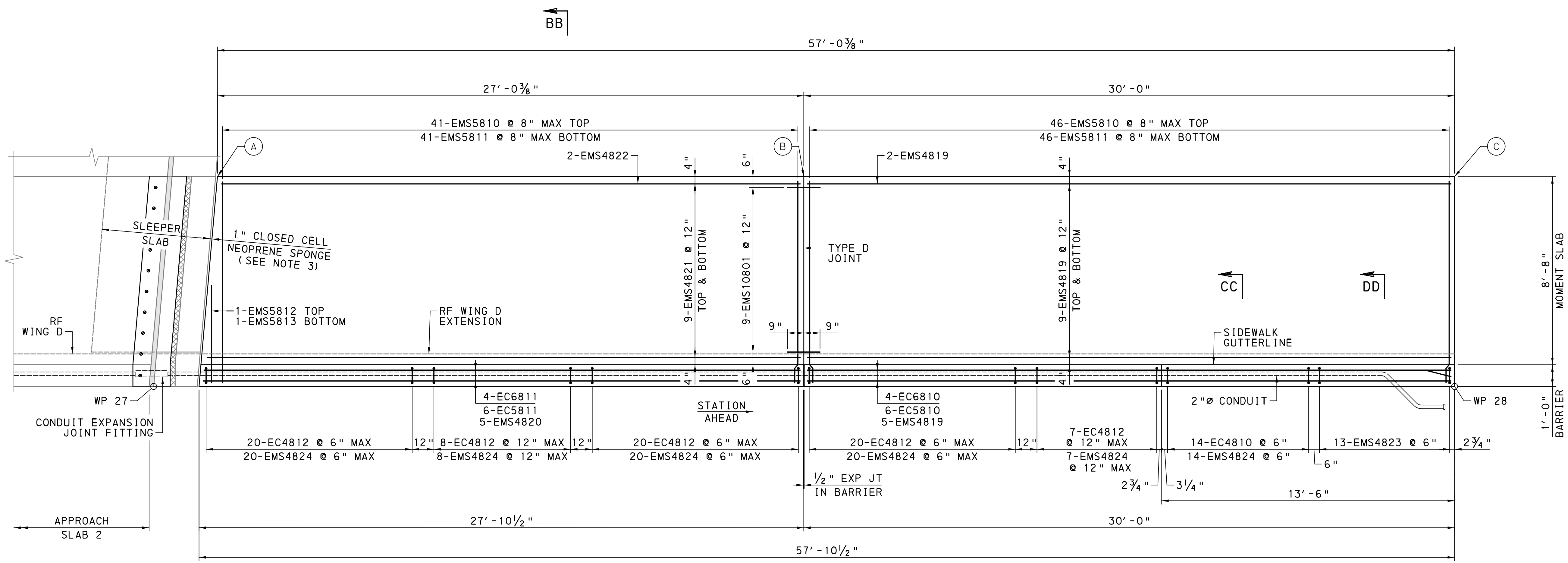
DAUPHIN COUNTY
 S.R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 MOMENT SLAB C REINFORCEMENT BAR SCHEDULE



RECOMMENDED 2026.05.15

SHEET 81 OF 97

S-42336

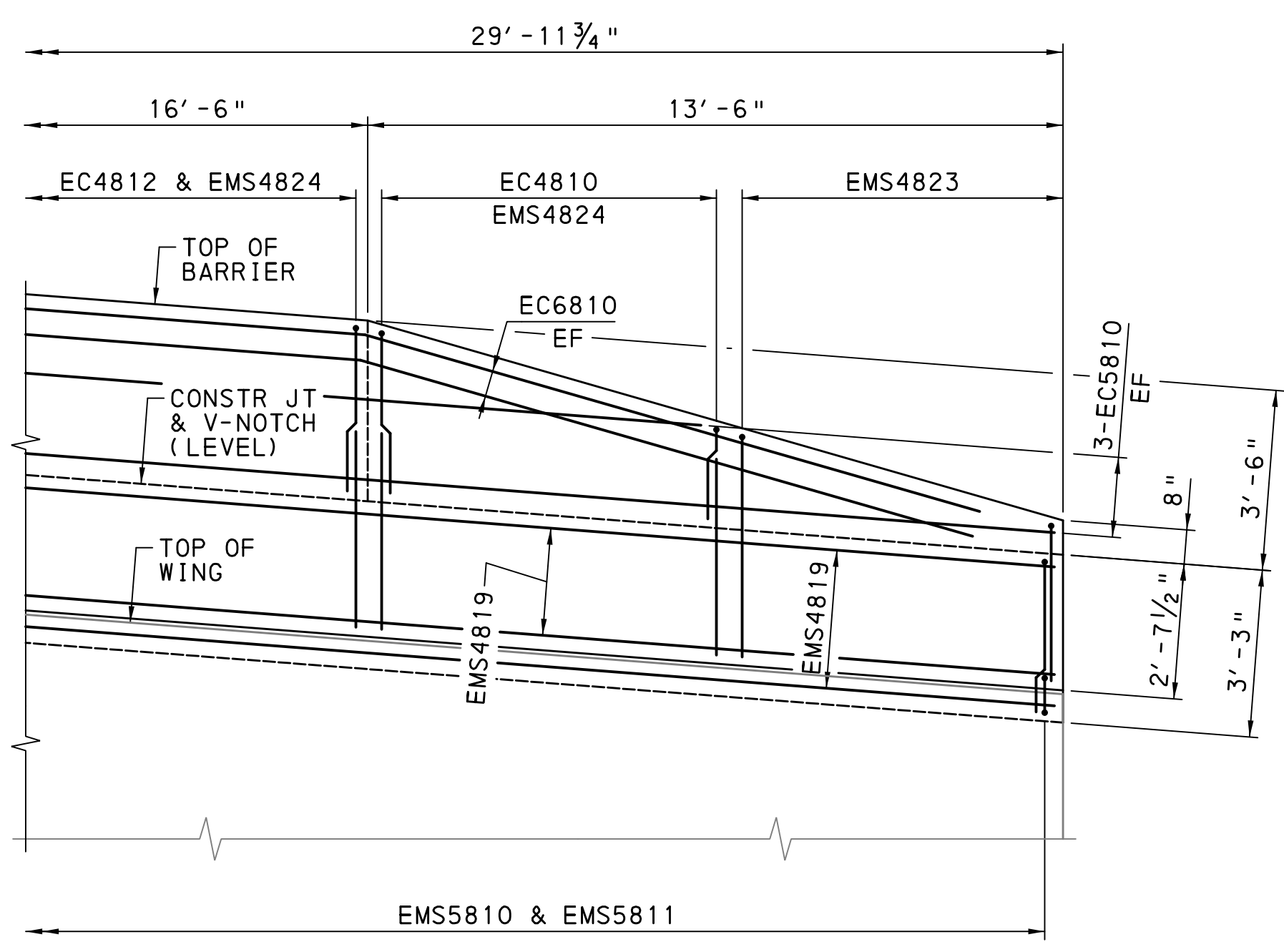


MOMENT SLAB D PLAN



MOMENT SLAB GUTTERLINE ELEVATIONS				
STATION	A	B	C	
41+29.45	354.32	---	---	
41+56.40	---	352.25	---	
41+86.40	---	---	349.94	

- NOTES**
- FOR CONSTRUCTION AND EXPANSION JOINT DETAILS, SEE BC-735M.
 - FOR SECTIONS BB-BB, CC-CC & DD-DD, SEE SHEET 83.
 - CLOSED CELL NEOPRENE SPONGE IS INCIDENTAL TO CLASS AA CEMENT CONCRETE.
 - FOR CONDUIT DETAILS AT END OF BRIDGE, SEE BC-721M.



MOMENT SLAB D BARRIER END ELEVATION



Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
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COMMONWEALTH OF PENNSYLVANIA
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DAUPHIN COUNTY
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 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLAB D PLAN & ELEVATION

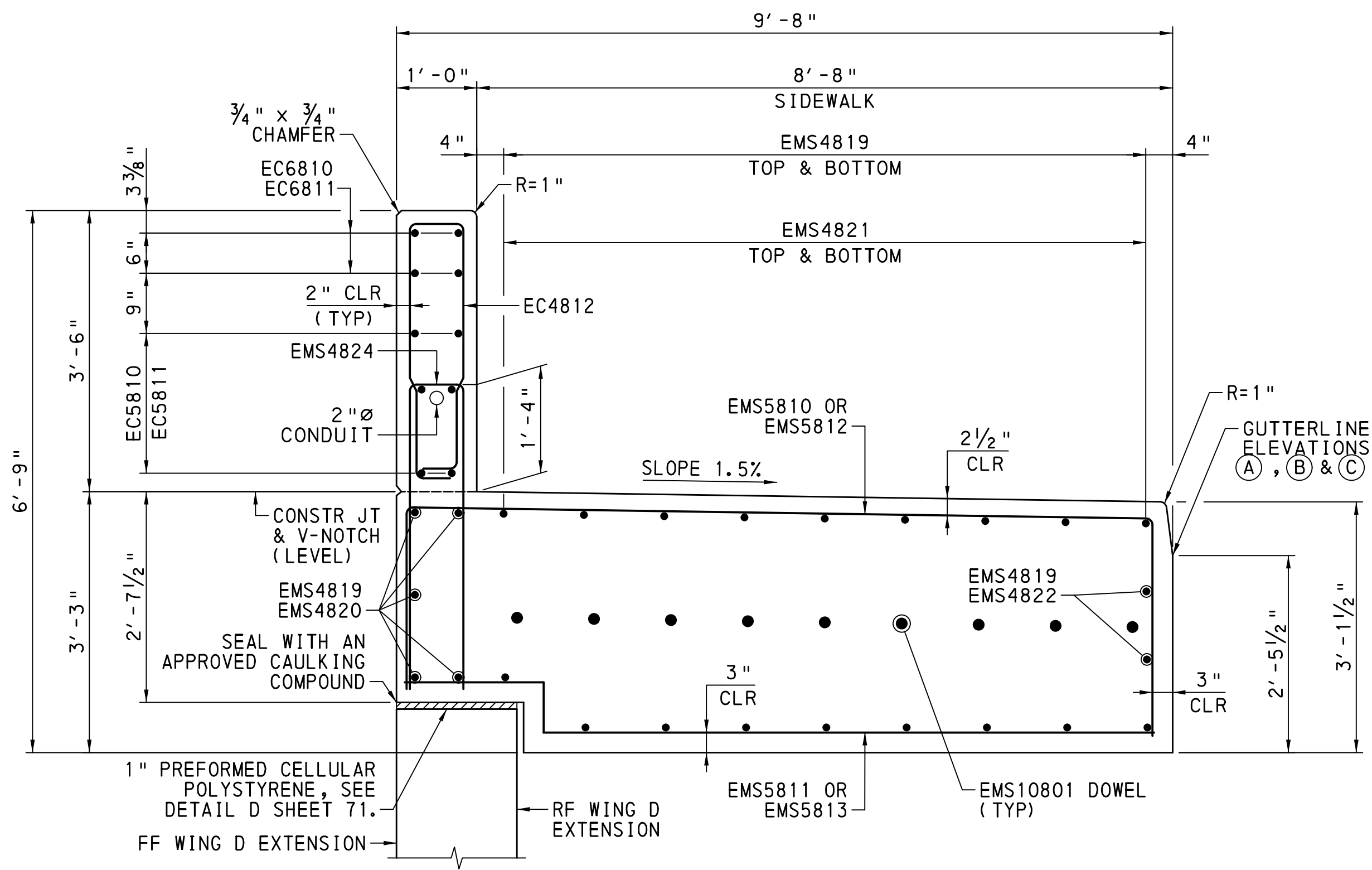


RECOMMENDED 2026.05.15

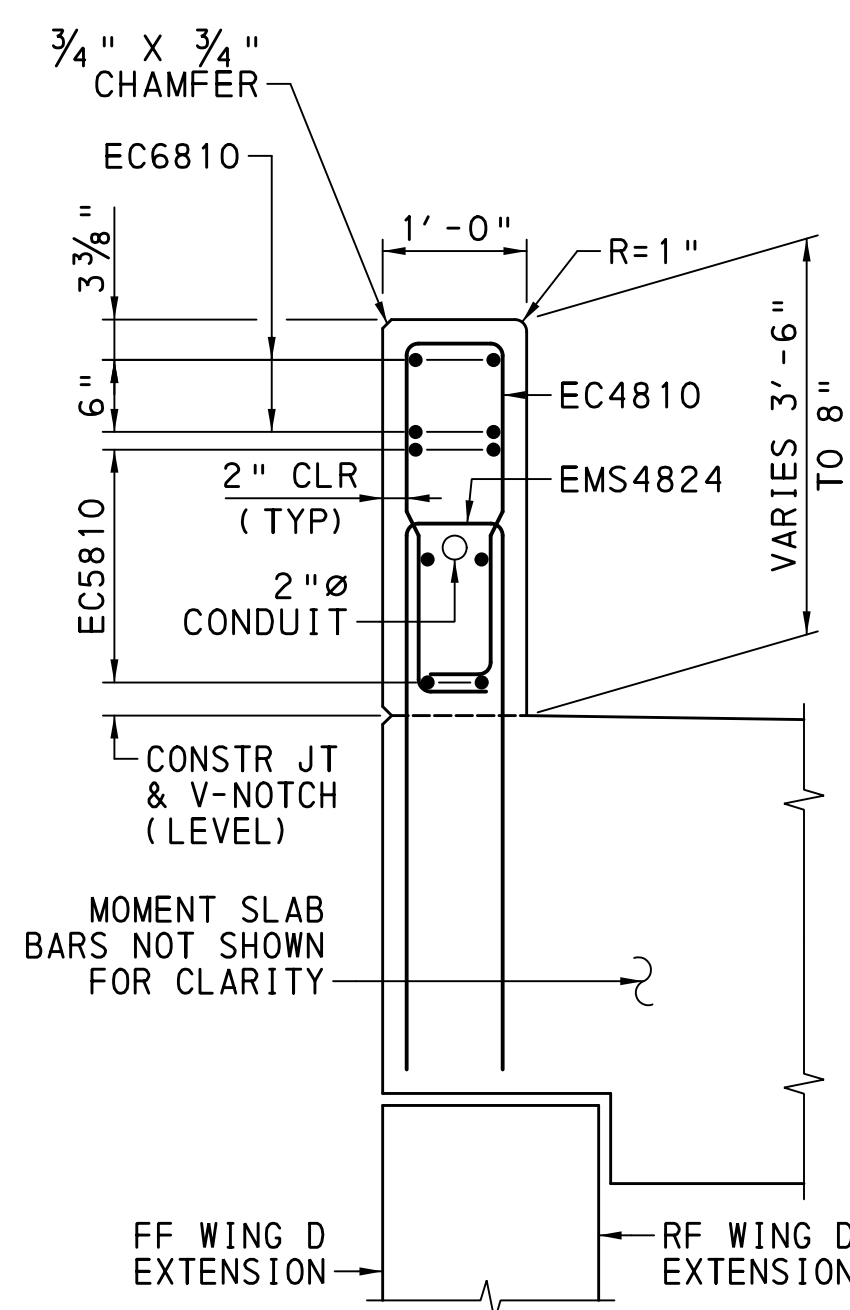
SHEET 82 OF 97

S-42336

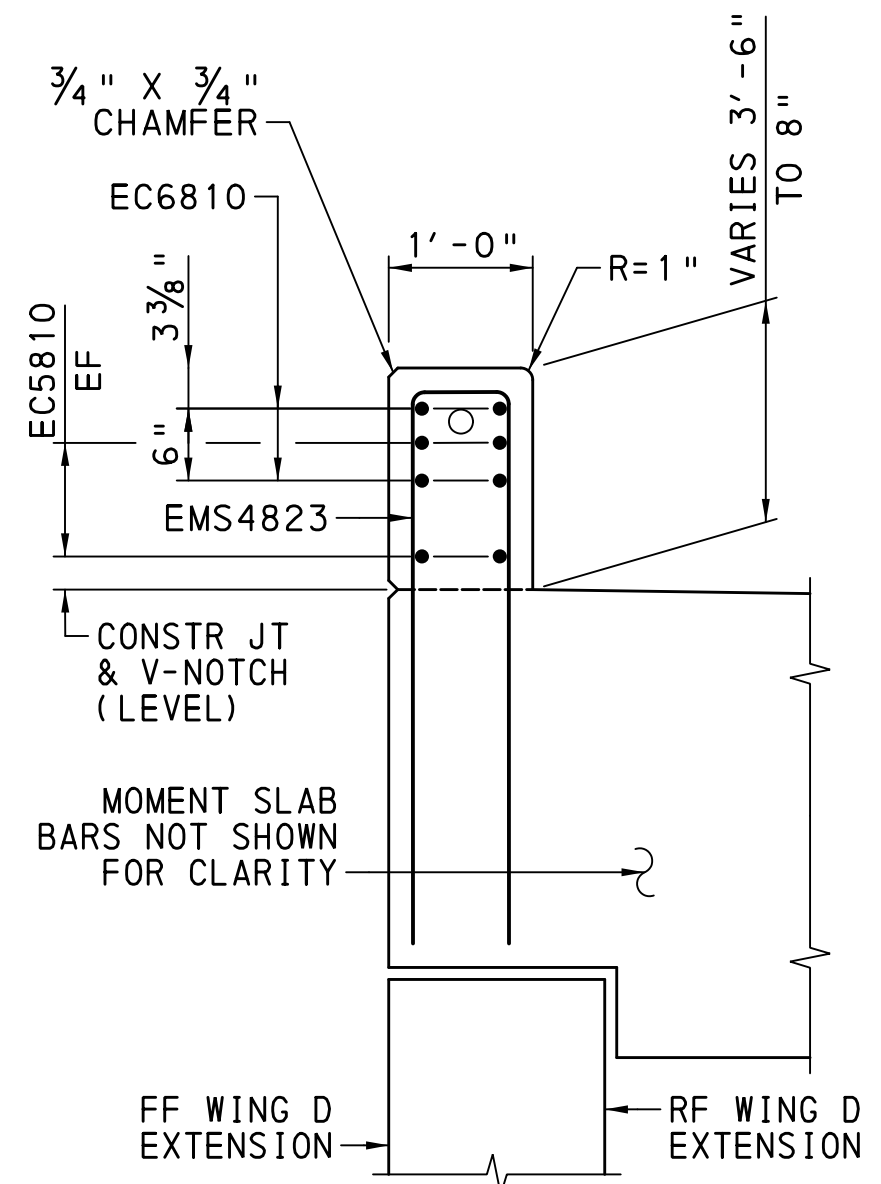
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SECTION BB-BB (SHEET 82)



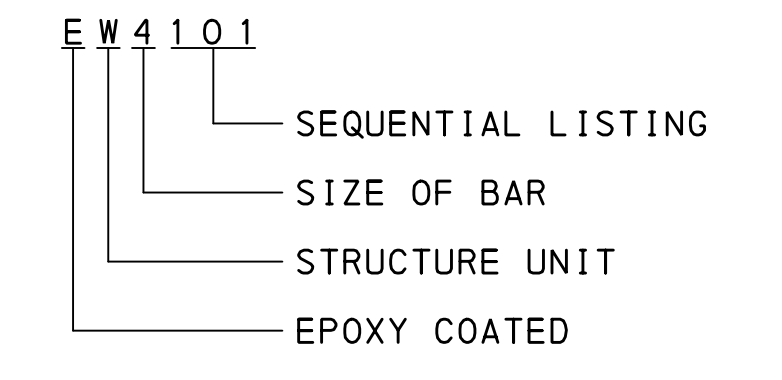
SECTION CC-CC (SHEET 82)



SECTION DD-DD (SHEET 82)



EXPLANATION OF BAR MARKS



STRUCTURE UNIT ABBREVIATIONS

- AS - APPROACH SLAB
- C - BARRIER, SIDEWALK OR CURB
- D - END DIAPHRAGM
- F - ABUTMENT OR PIER FOOTING
- MS - MOMENT SLAB
- S - DECK SLAB
- SS - SLEEPER SLAB
- W - WINGWALL OR ABUTMENT STEM
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APPROACH SLAB 2:	701 THROUGH	799
MOMENT SLAB:	801 THROUGH	899

NOTES

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- STR DENOTES STRAIGHT BAR.
- FIGURES IN CIRCLES SHOW BAR TYPE.

REINFORCEMENT BAR SCHEDULE

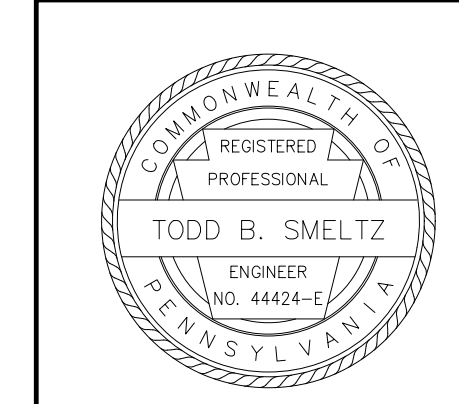
MOMENT SLAB D																
MARK	SIZE	LENGTH	NO.	TYPE	A	B	C	D	E	F	G	H	I	J	K	REMARKS
MOMENT SLAB																
EMS4819	4	29'-8"	25	STR												
EMS4820	4	27'-5 1/2"	5	STR												
EMS4821	4	VARIES 26'-8" TO 27'-4"	18	STR												VARY BY 1" - 2 EA
EMS4822	4	26'-8"	2	STR												
EMS4823	4	VARIES 8'-11 3/4" TO 6'-1 3/4"	13	34	4'-1" TO 2'-8"	4'-1" TO 2'-8"	2 3/8"	5"		8"						R=1" VARY 'A' & 'B' BY 1/4" - 1 EA
EMS4824	4	8'-2 3/4"	89	34	3'-8 1/2"	3'-8 1/2"	2 3/8"	5"		8"						R=1"
EMS5810	5	14'-6"	87	34	2'-3"	2'-8"	2"	9'-3"								R=1"
EMS5811	5	9'-10 1/2"	87	12	7'-7"	7 1/2"	1'-8"								0"	
EMS5812	5	6'-10"	1	11	4'-5"	2"	2'-3"									R=1"
EMS5813	5	5'-0 1/2"	1	12	2'-9"	7 1/2"	1'-8"								0"	
EMS10801	10	1'-6"	9	STR												
BARRIER																
EC4810	4	VARIES 7'-5 1/2" TO 4'-9"	14	35	2'-7" TO 1'-2 3/4"	4"	3"	2'-7" TO 1'-2 3/4"	5 1/2"	3"						VARY 'A' & 'D' BY 1/4" - 1 EA
EC4812	4	7'-9 1/2"	75	35	2'-9"	4"	3"	2'-9"	5 1/2"	3"						R=2"
EC5810	5	VARIES 22'-10" TO 29'-8"	6	STR												VARY BY 3'-5" - 2 EA
EC5811	5	27'-5 1/2"	6	STR												
EC6810	6	28'-9"	4	16			16'-4"	12'-5"				2'-6 5/8"		12'-1 7/8"		
EC6811	6	27'-5 1/2"	4	STR												

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

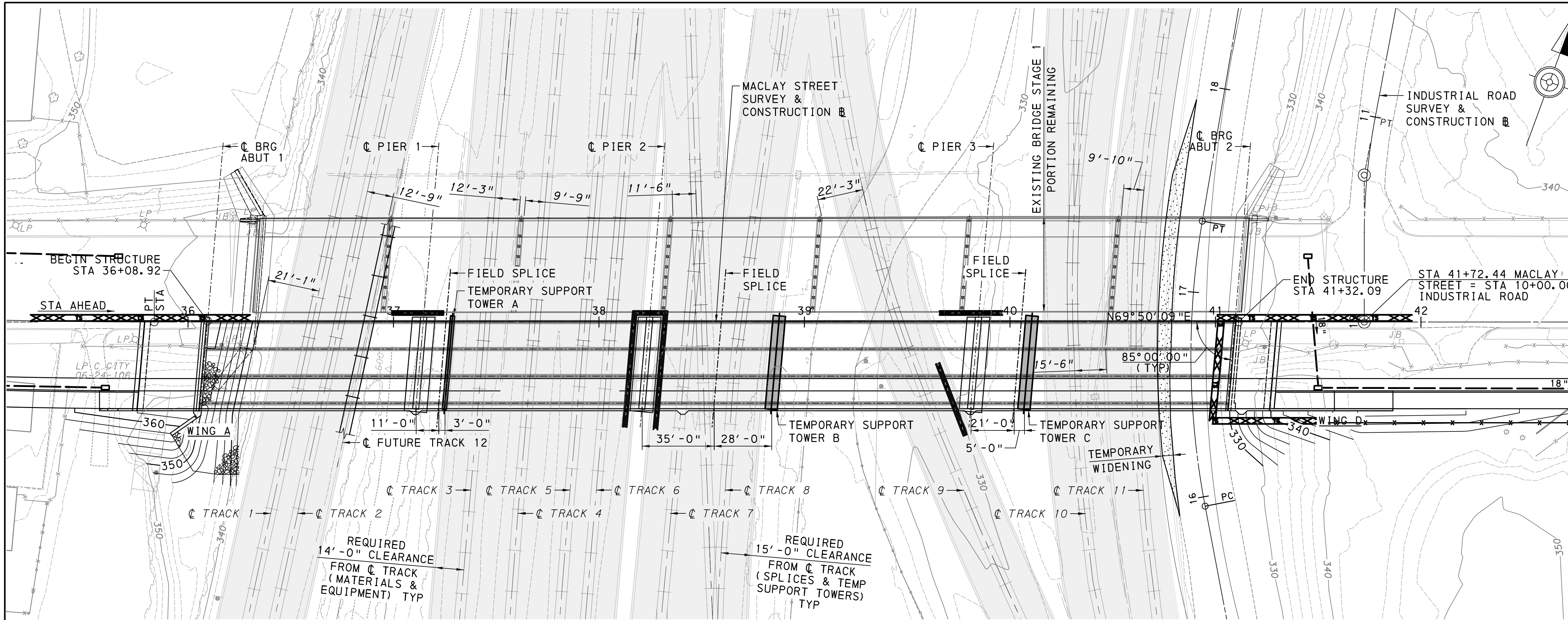
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
MOMENT SLAB D REINFORCEMENT BAR SCHEDULE



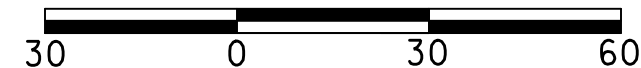
RECOMMENDED 2026.05.15 SHEET 83 OF 97

S-42336

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CONSTRUCTABILITY PLAN STAGE 1B

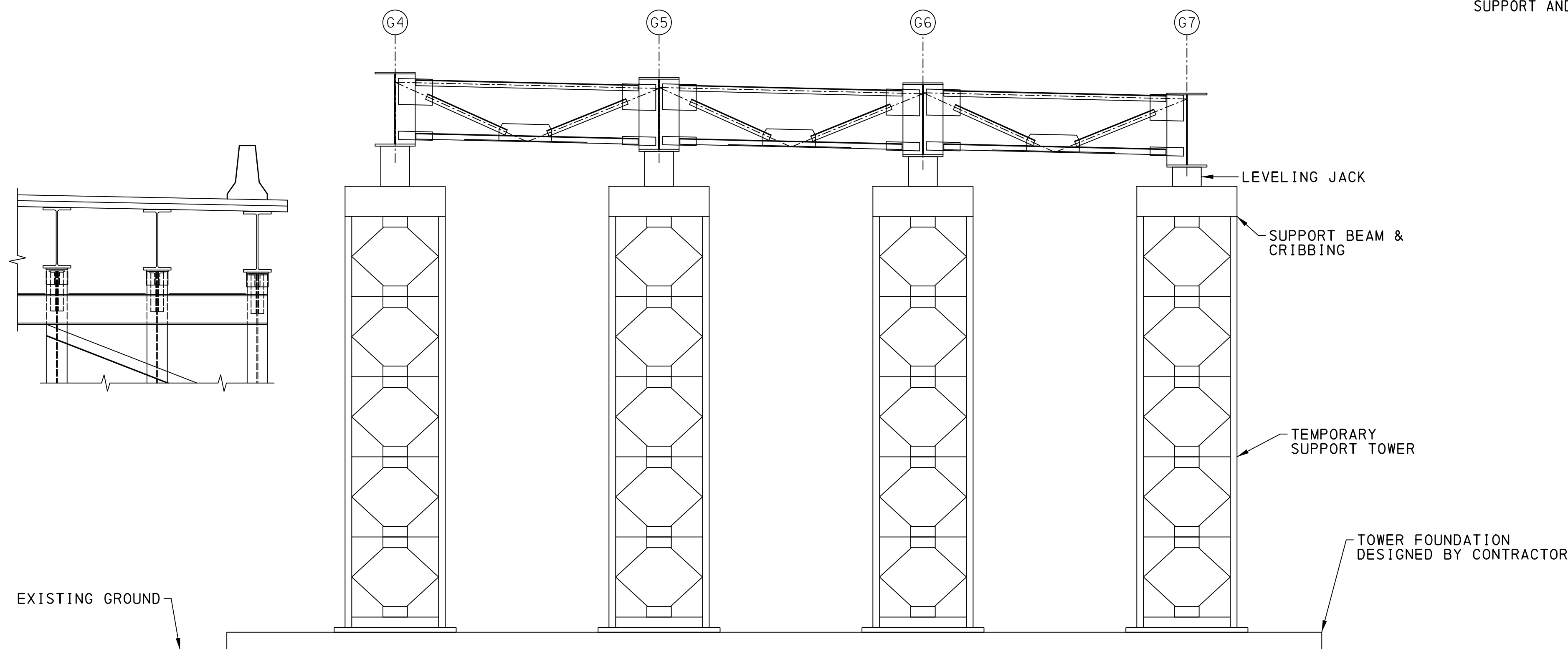


LEGEND

APPROXIMATE LIMITS OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

NOTES

1. PLAN IS CONCEPTUAL ONLY.
2. PROTECT ALL PEDESTRIANS, VEHICULAR TRAFFIC, RAILROAD TRAFFIC/PROPERTY, AND UTILITIES DURING GIRDER ERECTION. VEHICULAR TRAFFIC WILL BE MAINTAINED ON THE REMAINING PORTION OF THE EXISTING STRUCTURE CARRYING MACLAY STREET.
3. REFERENCE THE NORFOLK SOUTHERN RAILWAY COMPANY PUBLIC PROJECTS MANUAL CURRENT VERSION FOR ADDITIONAL NOTES AND REQUIREMENTS RELATED TO GIRDER ERECTION AND HOISTING PROCEDURES.
4. ALL CRANE PICKS WEIGHTS TO INCLUDE THE NORFOLK SOUTHERN 150% SAFETY FACTOR.
5. GIRDERS TO BE DELIVERED AND PICKED FROM THE EXISTING MACLAY STREET BRIDGE OR ADJACENT PROPERTIES. NORFOLK SOUTHERN WILL NOT PERMIT THE GIRDERS TO BE PICKED FROM NORFOLK SOUTHERN PROPERTY.
6. TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, WORK AREAS, TEMPORARY SUPPORT TOWER LOCATIONS ARE CONCEPTUAL AND MAY CHANGE BASED ON CONTRACTOR'S CONSTRUCTION METHODS, AVAILABLE EQUIPMENT, AND NORFOLK SOUTHERN APPROVAL.
7. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 10'-0" FROM C TRACKS TO EDGE OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM.
8. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 14'-0" FROM THE C OF TRACKS TO ALL MATERIAL AND EQUIPMENT.
9. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 15'-0" FROM C OF TRACKS TO TEMPORARY SUPPORT TOWERS.
10. FIELD SPLICE LOCATIONS CANNOT BE ADJUSTED WITHOUT APPROVAL OF NORFOLK SOUTHERN AND PENNDOT STRUCTURE CONTROL ENGINEER.
11. REQUIRED 14'-0" CLEARANCE FROM C TRACK FOR MATERIALS & EQUIPMENT.
12. REQUIRED 15'-0" CLEARANCE FROM C TRACK FOR TEMPORARY SUPPORT TOWERS.
13. DURING DEMOLITION THE CONTRACTOR IS NOT PERMITTED TO PROCESS EXISTING GIRDERS ON NORFOLK SOUTHERN RAILWAY PROPERTY.
14. DIMENSIONS SHOW FROM CENTERLINE OF TRACKS TO EXISTING SUBSTRUCTURE UNITS IS PROVIDED FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY EXISTING CLEAR DIMENSIONS AND MAINTAIN ALL APPLICABLE CLEARANCES TO NORFOLK SOUTHERN RAILROAD TRACKS.



CONCEPTUAL TEMPORARY SUPPORT TOWER SYSTEM-STAGE 1B

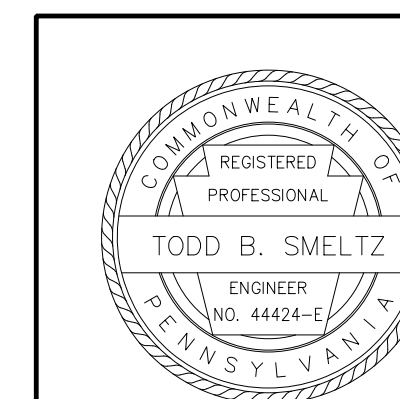
NOT TO SCALE

Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

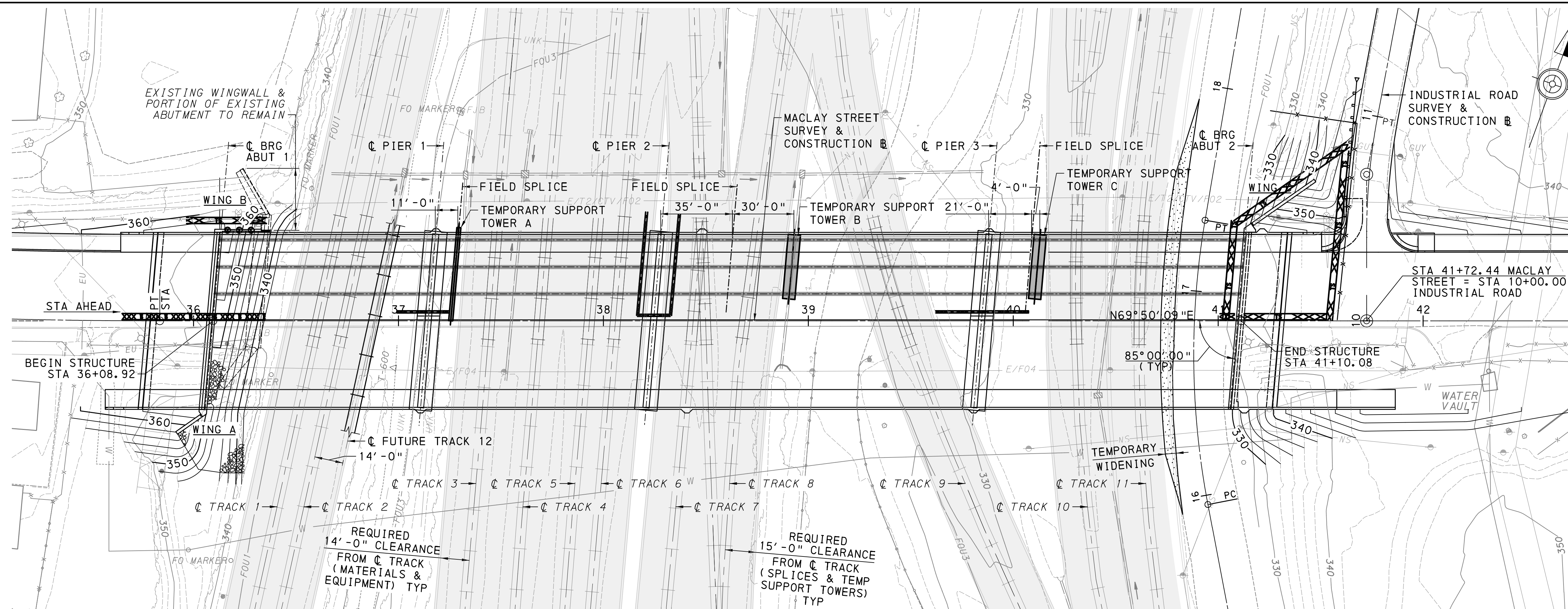
DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
CONSTRUCTABILITY PLAN STAGE 1B



RECOMMENDED 2026.05.15

SHEET 84 OF 97

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CONSTRUCTABILITY PLAN STAGE 2

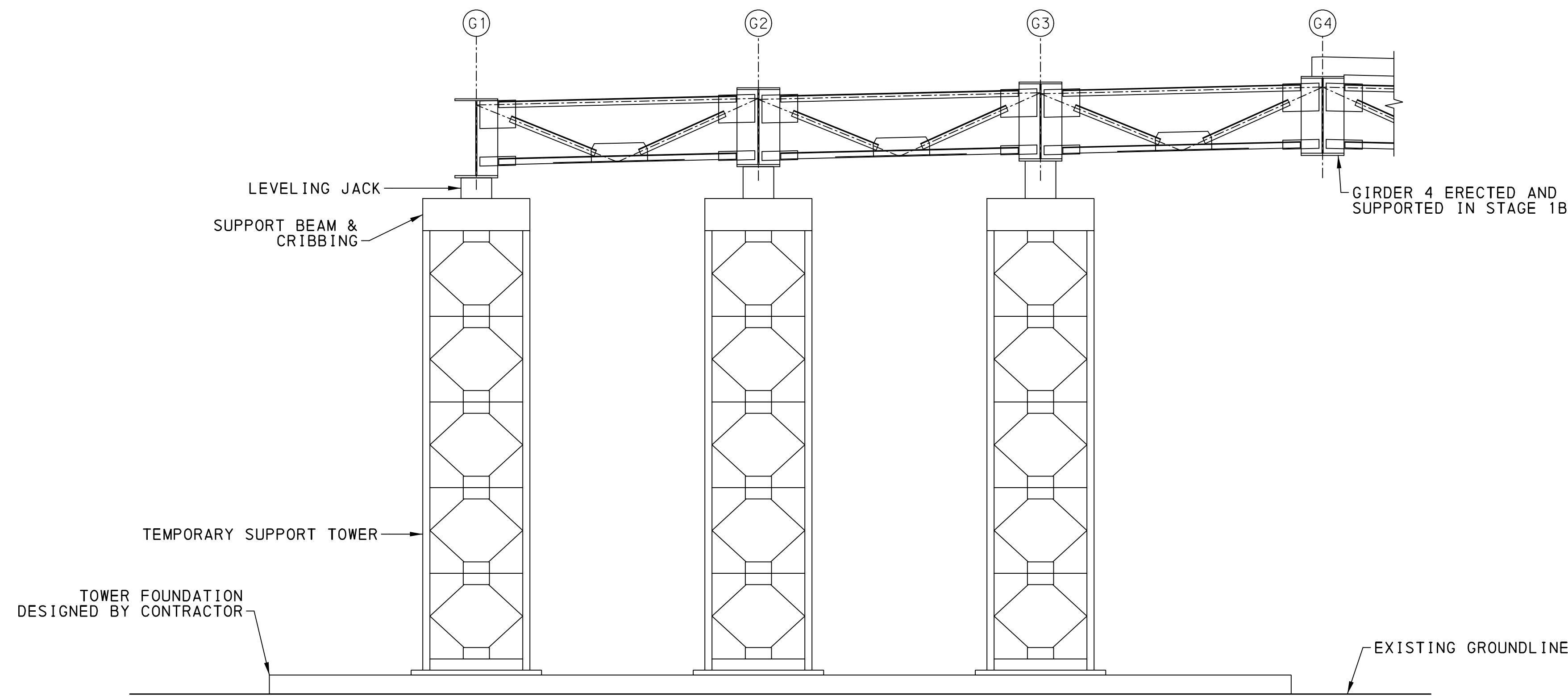


LEGEND

APPROXIMATE LIMITS OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

NOTES

1. PLAN IS CONCEPTUAL ONLY.
2. PROTECT ALL PEDESTRIANS, VEHICULAR TRAFFIC, RAILROAD TRAFFIC/PROPERTY, AND UTILITIES DURING GIRDER ERECTION. VEHICULAR TRAFFIC WILL BE MAINTAINED ON THE REMAINING PORTION OF THE EXISTING STRUCTURE CARRYING MACLAY STREET. INSTALL TEMPORARY CONSTRUCTION FENCE, (ITEM 9000-0907) AROUND WING C EXCAVATION LIMIT.
3. REFERENCE THE NORFOLK SOUTHERN RAILWAY COMPANY PUBLIC PROJECTS MANUAL CURRENT VERSION FOR ADDITIONAL NOTES AND REQUIREMENTS RELATED TO GIRDER ERECTION AND HOISTING PROCEDURES.
4. ALL CRANE PICKS WEIGHTS TO INCLUDE THE NORFOLK SOUTHERN 150% SAFETY FACTOR.
5. GIRDERS TO BE DELIVERED AND PICKED FROM THE PORTION OF THE MACLAY STREET BRIDGE CONSTRUCTED DURING STAGE 1B OR ADJACENT PROPERTIES. NORFOLK SOUTHERN WILL NOT PERMIT THE GIRDERS TO BE PICKED FROM NORFOLK SOUTHERN PROPERTY.
6. TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, WORK AREAS, TEMPORARY SUPPORT TOWER LOCATIONS ARE CONCEPTUAL AND MAY CHANGE BASED ON CONTRACTOR'S CONSTRUCTION METHODS, AVAILABLE EQUIPMENT, AND NORFOLK SOUTHERN APPROVAL.
7. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 10'-0" CLEARANCE FROM C TRACKS TO EDGE OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM.
8. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 14'-0" FROM THE C OF TRACKS TO ALL MATERIAL AND EQUIPMENT.
9. PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 15'-0" FROM C OF TRACKS TO TEMPORARY SUPPORT TOWERS.
10. FIELD SPLICE LOCATIONS CANNOT BE ADJUSTED WITHOUT APPROVAL OF NORFOLK SOUTHERN AND PENNDOT STRUCTURE CONTROL ENGINEER.
11. REQUIRED 14'-0" CLEARANCE FROM C TRACK FOR MATERIALS & EQUIPMENT.
12. REQUIRED 15'-0" CLEARANCE FROM C TRACK FOR TEMPORARY SUPPORT TOWERS.
13. DURING DEMOLITION THE CONTRACTOR IS NOT PERMITTED TO PROCESS EXISTING GIRDERS ON NORFOLK SOUTHERN RAILWAY PROPERTY.



CONCEPTUAL TEMPORARY SUPPORT TOWER SYSTEM - STAGE 2

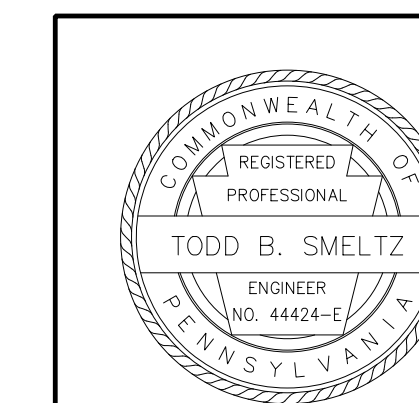
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Mark	Description	By	Chk' d.	Recm' d.	Date
REVISIONS					

S.R. 3022 PREVIOUSLY KNOWN AS L.R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S.R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
CONSTRUCTABILITY PLAN STAGE 2



RECOMMENDED 2026.05.15

SHEET 85 OF 97

S-42336

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

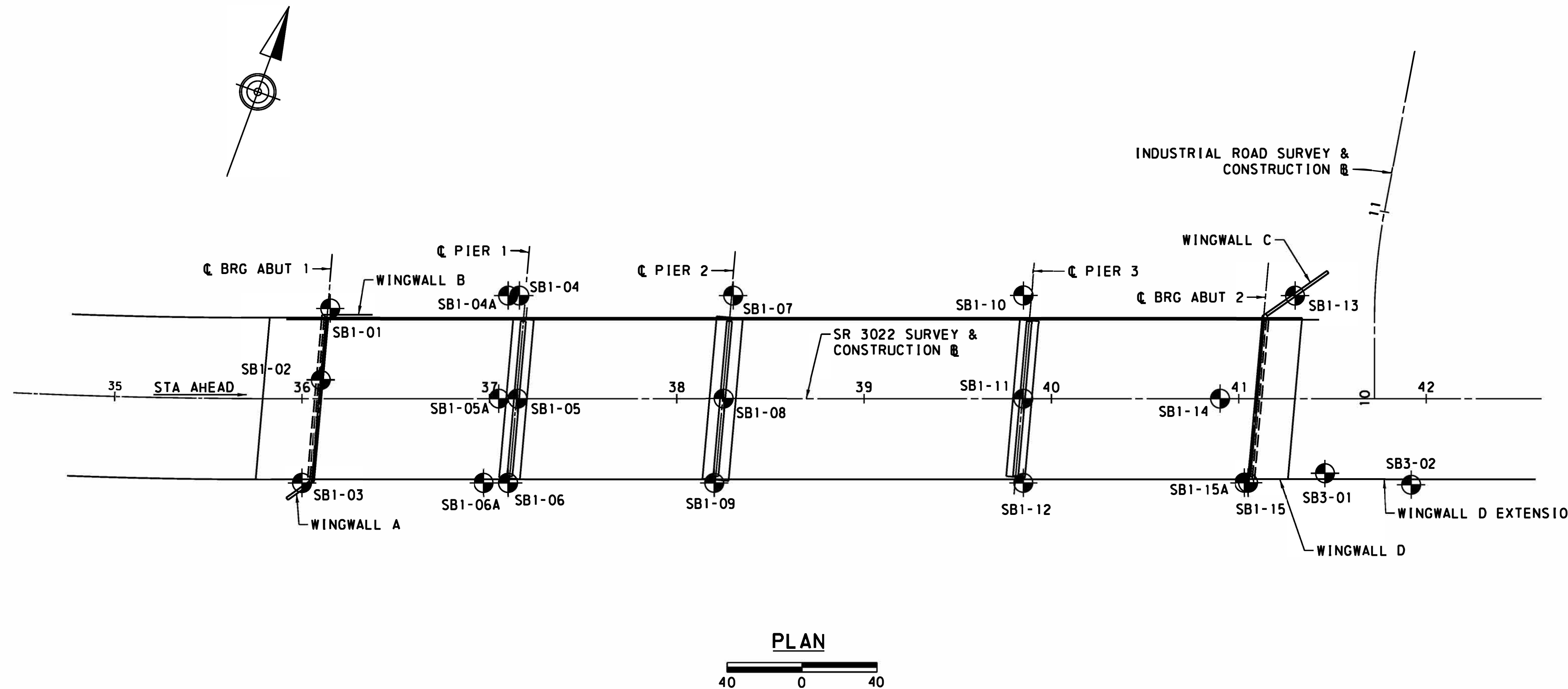
- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPT E ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

ME

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.

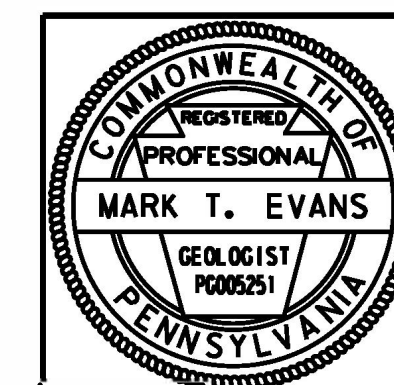
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 GEOTECHNICAL ENGINEER/ENGINEERING GEOLOGIST DATE: 3/17/2026



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S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
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4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS



DATE: 2026.05.15
 SHEET 86 OF 97
 S - 42336

SUBSTRUCTURE UNIT: **ABUTMENT 1 AND WINGWALL B** LOG 1 OF 1

BORING NUMBER: **SB1-01** BORING LOCATION STATION: 36+15.0 OFFSET: 48.0 FT. LT. START: 01/24/2023 9:40 AM HAMMER: AUTOMATIC FINISH: 01/30/2023 11:50 AM EFFICIENCY: 0.8 Era

DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG SIZE OF CORE: 2.000 IN. VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 360.7 FT.

DRILLING INSPECTOR: CHELSEA MCKENZIE DRILLER & DRILLING COMPANY: KURT BASSETT NAVARRO AND WRIGHT

0 HR. READING - ELAPSED TIME: El. 326.0 ft. - 0.0 hr.
24 HR. READING - ELAPSED TIME: El. 325.0 ft. - 70.4 hr.

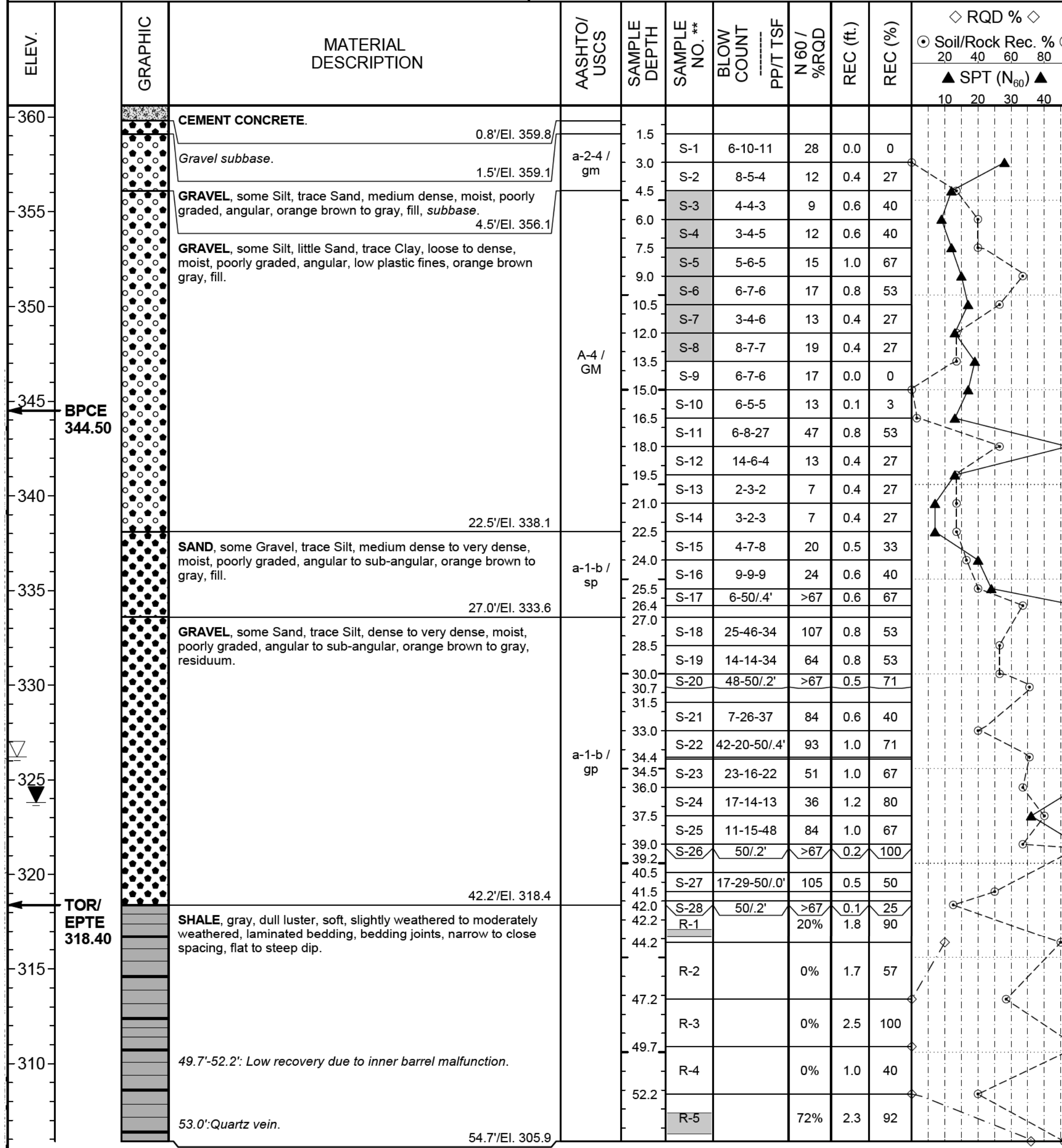
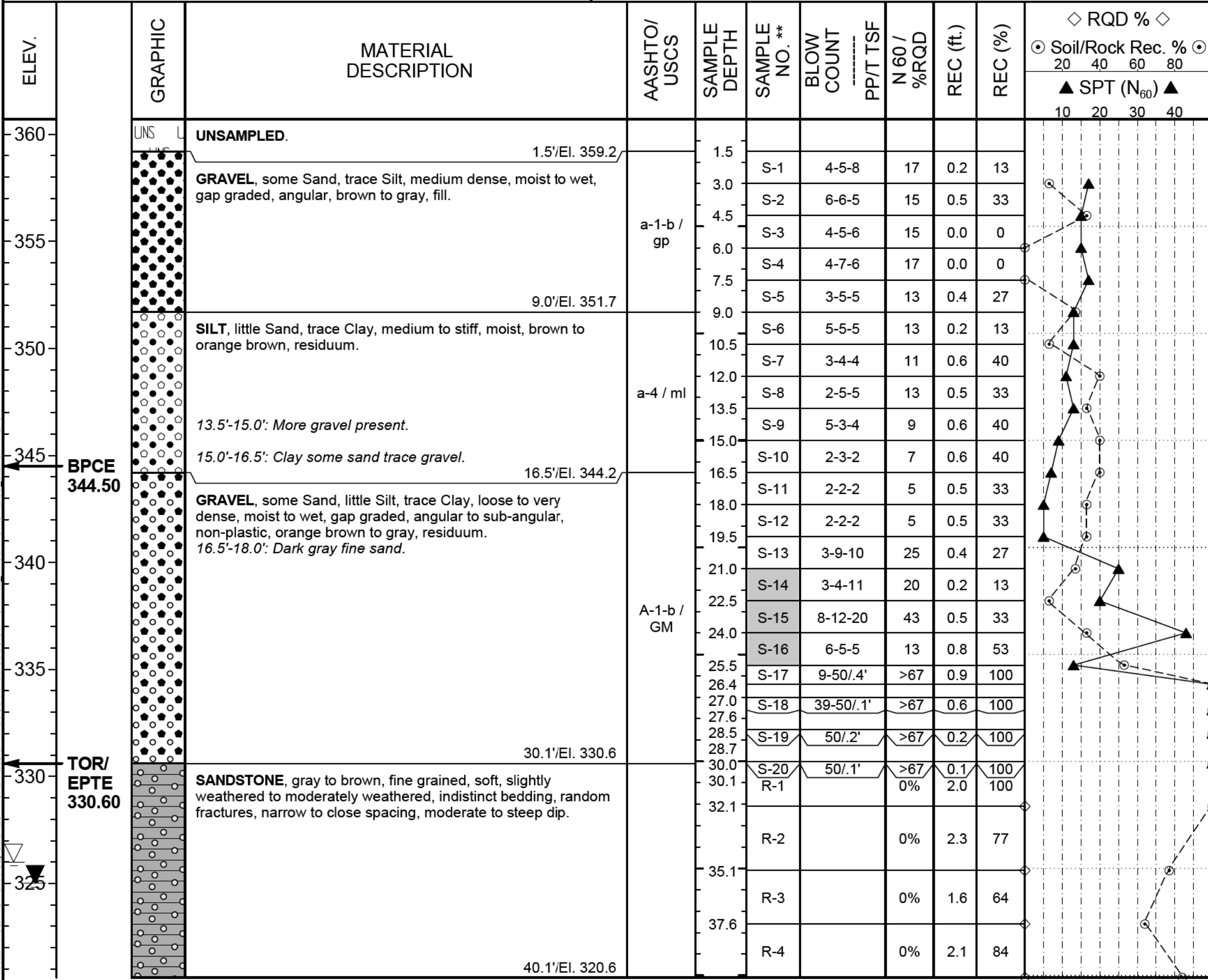
SUBSTRUCTURE UNIT: **ABUTMENT 1** LOG 1 OF 1

BORING NUMBER: **SB1-02** BORING LOCATION STATION: 36+10.0 OFFSET: 10.0 FT. LT. START: 01/25/2023 9:20 AM HAMMER: AUTOMATIC FINISH: 01/26/2023 2:30 PM EFFICIENCY: 0.8 Era

DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG SIZE OF CORE: 2.000 IN. VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 360.6 FT.

DRILLING INSPECTOR: CHELSEA MCKENZIE DRILLER & DRILLING COMPANY: KURT BASSETT NAVARRO AND WRIGHT

0 HR. READING - ELAPSED TIME: El. 326.2 ft. - 0.0 hr.
24 HR. READING - ELAPSED TIME: El. 323.8 ft. - 129.5 hr.



**SAMPLE NO. shading indicates lab testing performed.

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

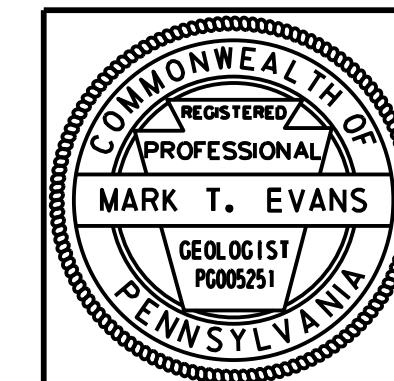
THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

ME

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS



2026.05.15
DATE

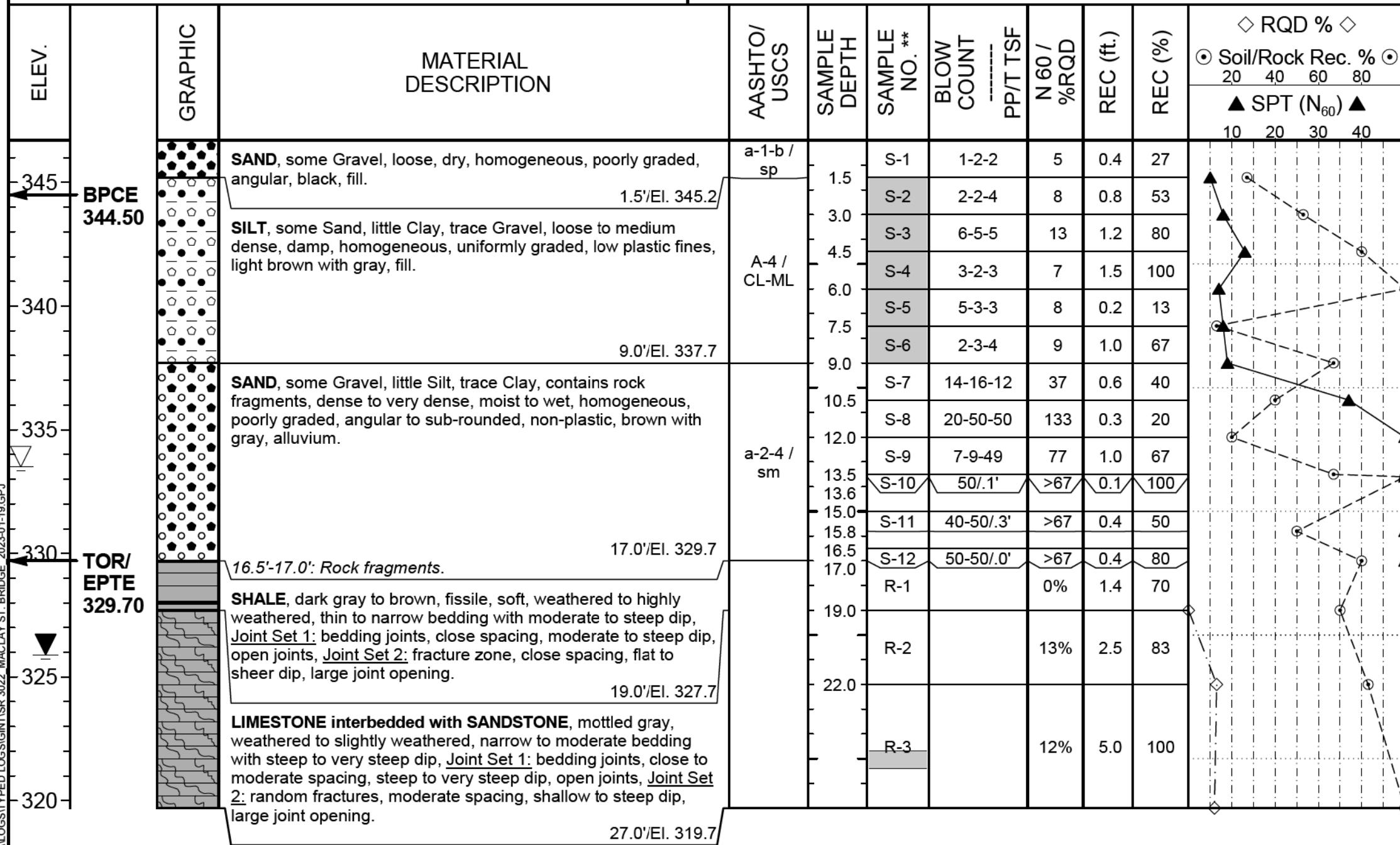
SHEET 87 OF 97

S - 42336

LOG 1 OF 1

SUBSTRUCTURE UNIT:
ABUTMENT 1 AND WINGWALL A

BORING NUMBER: SB1-03	BORING LOCATION STATION: 36+00.0 OFFSET: 45.0 FT. RT.	START: 05/24/2023 1:00 PM FINISH: 05/24/2023 4:30 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK MOUNTED RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 346.7 FT.
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		▽ 0 HR. READING - ELAPSED TIME: El. 333.5 ft. - 0.0 hr. ▼ 24 HR. READING - ELAPSED TIME: El. 325.9 ft. - 19.5 hr.	

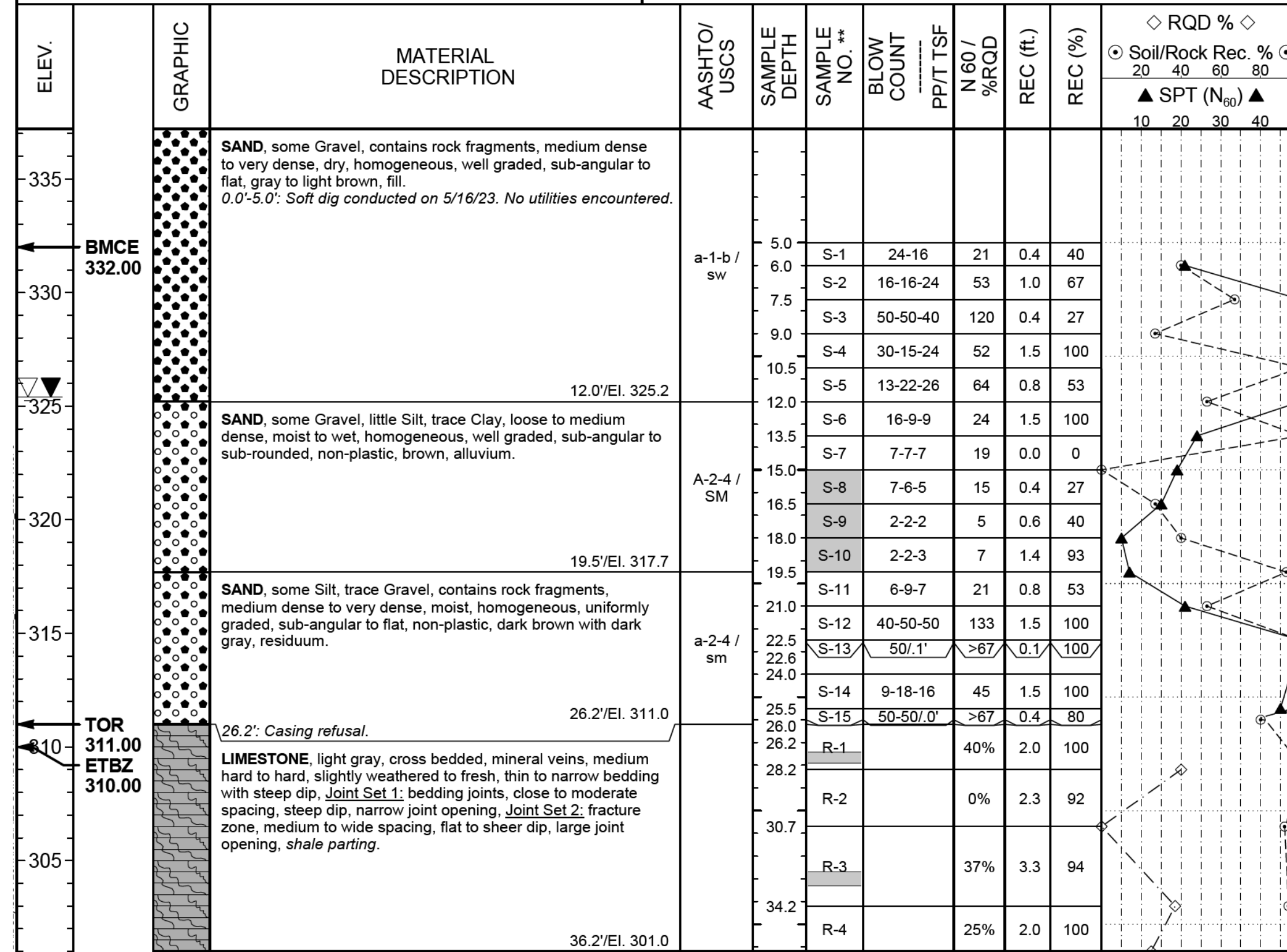


**SAMPLE NO. shading indicates lab testing performed.

LOG 1 OF 1

SUBSTRUCTURE UNIT:
PIER 1

BORING NUMBER: SB1-04A	BORING LOCATION STATION: 37+10.0 OFFSET: 55.0 FT. LT.	START: 05/18/2023 9:00 AM FINISH: 05/18/2023 3:30 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 337.2 FT.
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		▽ 0 HR. READING - ELAPSED TIME: El. 325.4 ft. - 0.3 hr. ▼ 24 HR. READING - ELAPSED TIME: El. 325.4 ft. - 92.5 hr.	



**SAMPLE NO. shading indicates lab testing performed.

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 POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

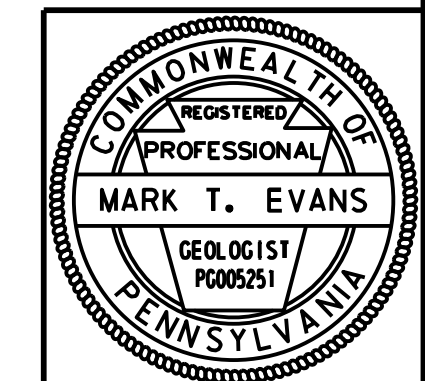
THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

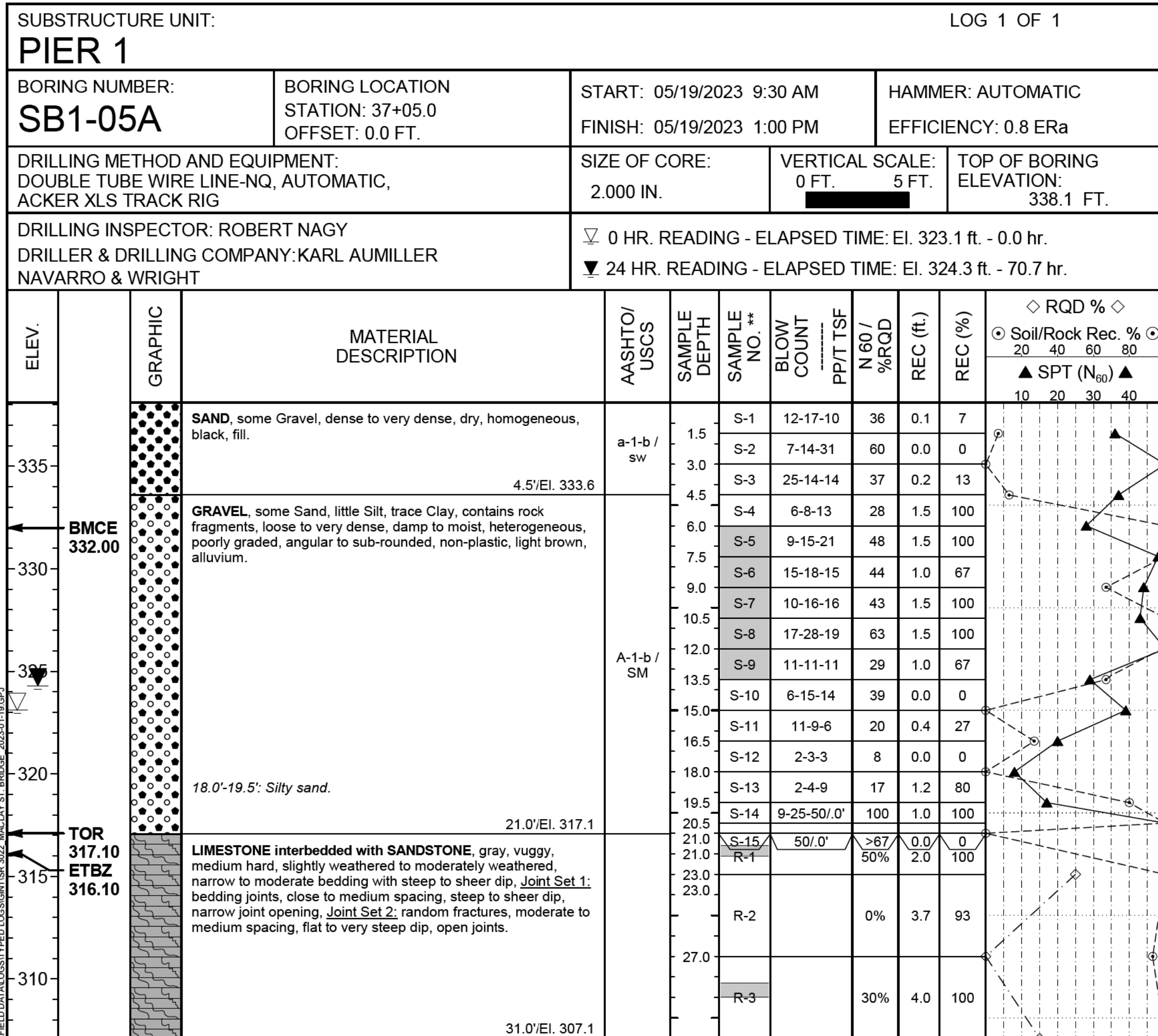
\\f1\reser\var\SC1-NET\01\Projects\36011 (SR 3022 Macloy St., Br 10gpl)\GEO\TECHNICAL\CAD\WORKING FILES\TEST BORING SHEETS\SB1\36011.GT.TB (SE1).dgn
 3/17/2026 11:15:47 PM rr fchngs

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

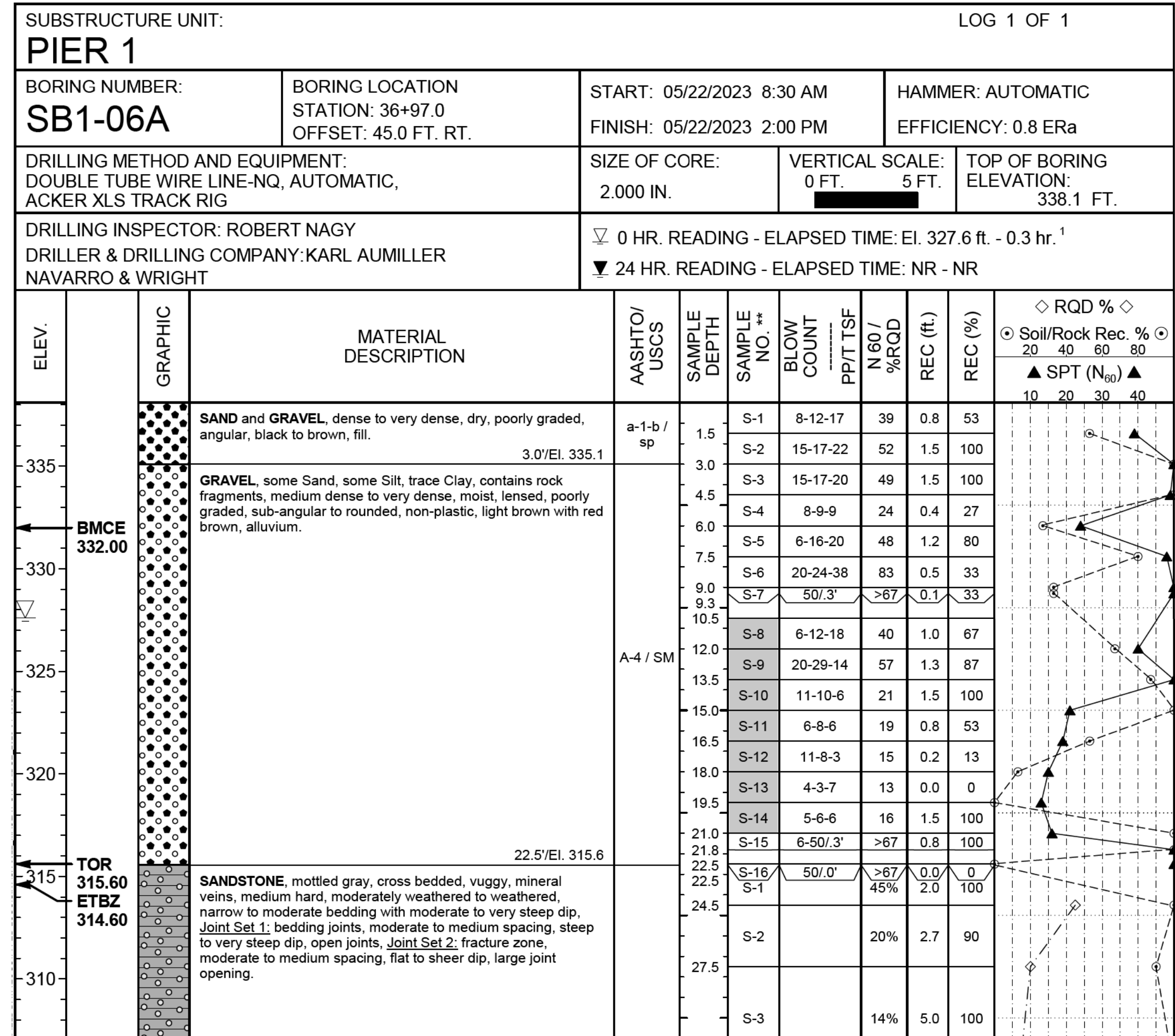
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS





**SAMPLE NO. shading indicates lab testing performed.



10-hr. Water: Boring grouted upon completion.
**SAMPLE NO. shading indicates lab testing performed.

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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

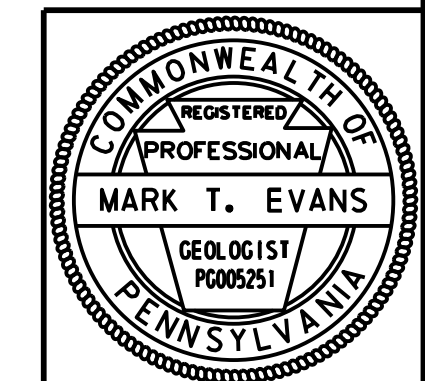
THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

\\11reser\sc1-net\01\Projects\36011\SR 3022 Macloy St. Br 100p\GEO\TECHNICAL\CAD\WORKING FILES\TEST BORING SHEETS\SB1-36011.GT.TB (SE1).dgn
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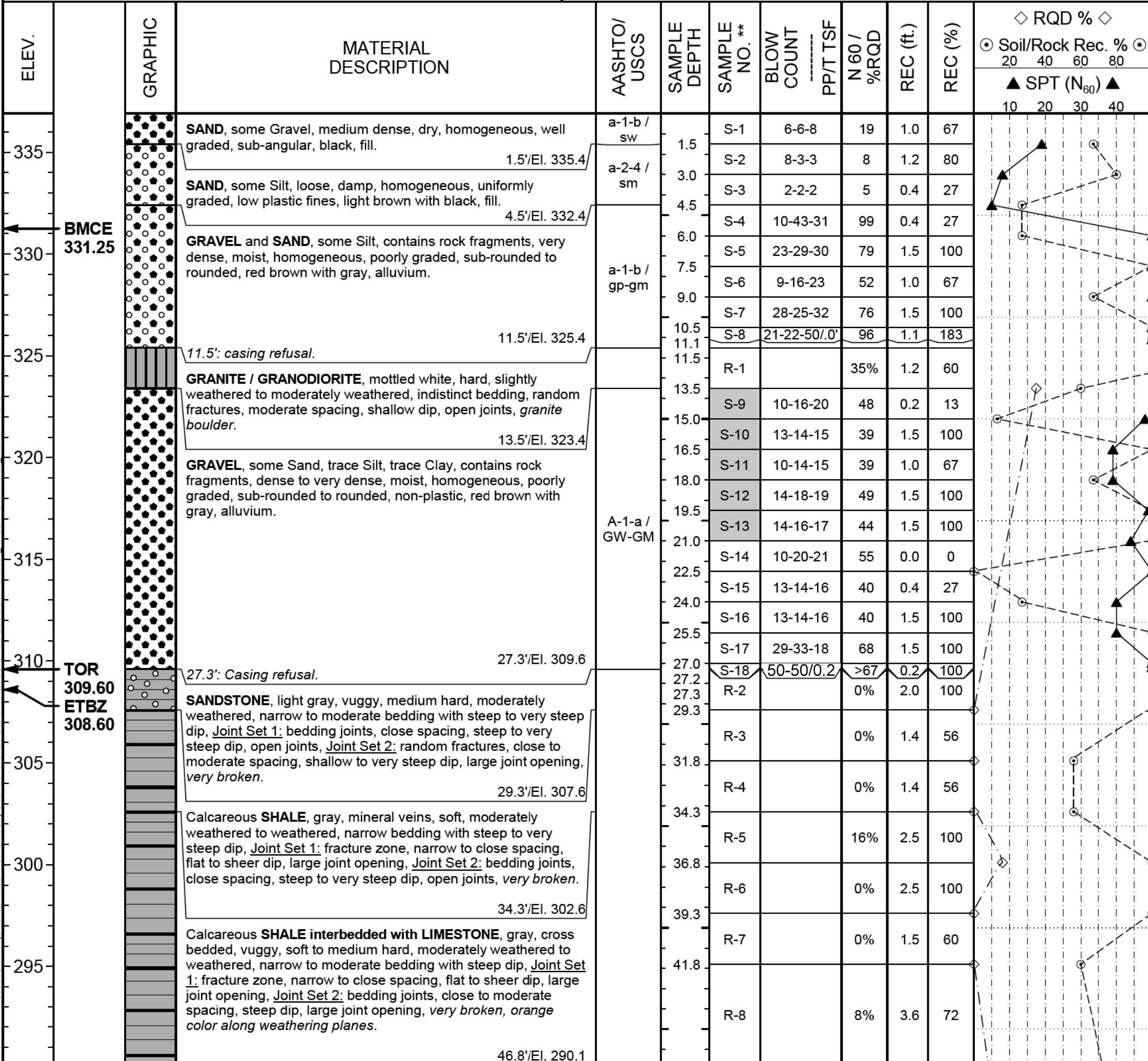
S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS

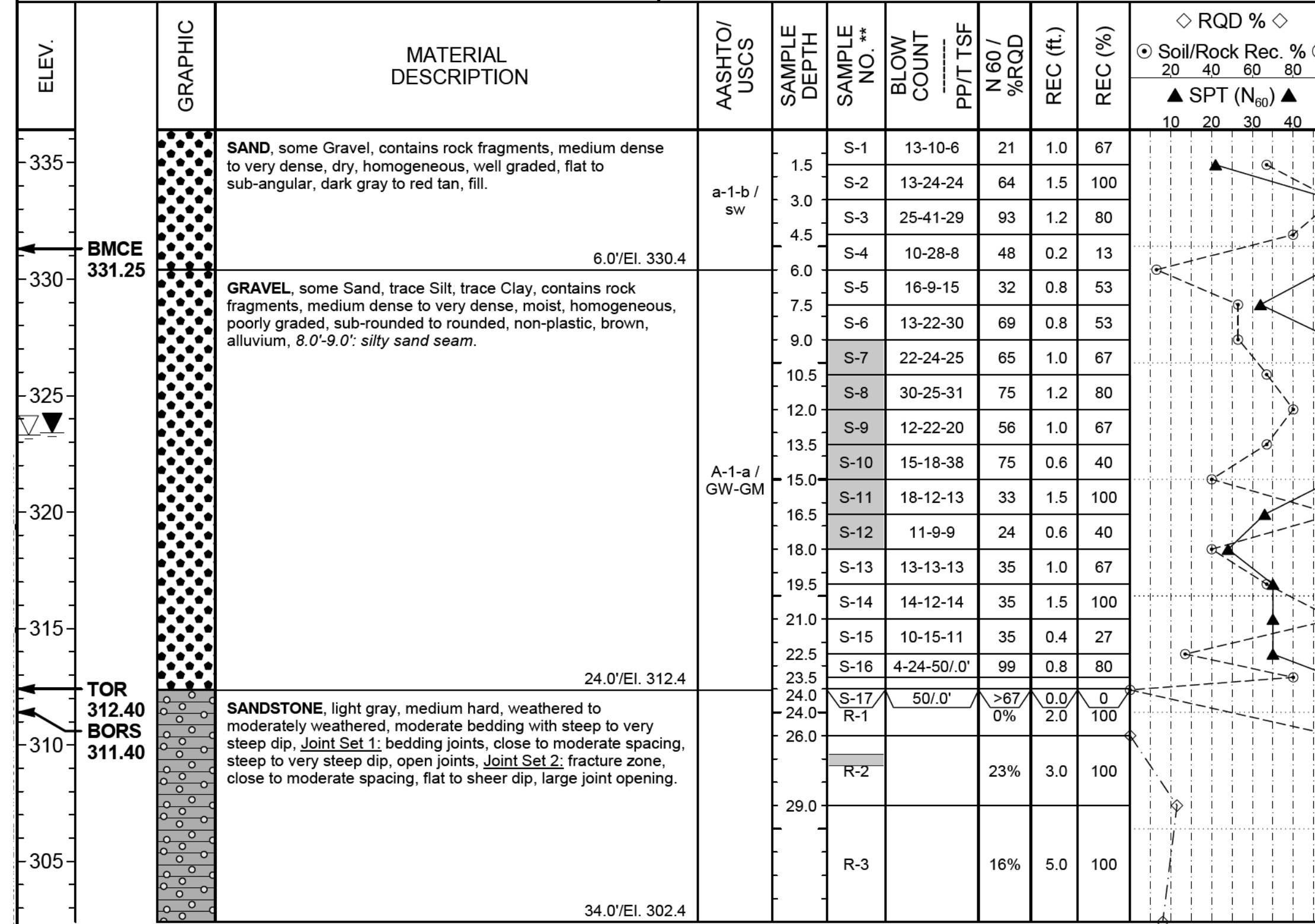


SUBSTRUCTURE UNIT: PIER 2				LOG 1 OF 1			
BORING NUMBER: SB1-07	BORING LOCATION STATION: 38+30.0 OFFSET: 55.0 FT. LT.	START: 05/09/2023 1:20 PM FINISH: 05/10/2023 10:45 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era				
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. ██████████ 5 FT.	TOP OF BORING ELEVATION: 336.9 FT.			
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		▽ 0 HR. READING - ELAPSED TIME: Dry - 0.0 hr. ¹ ▼ 24 HR. READING - ELAPSED TIME: Dry - 280.5 hr. ²					



¹0-hr. Water: Boring collapsed at 11.0' below surface.
²24-hr. Water: Boring collapsed at 10.0' below surface.
 **SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT: PIER 2				LOG 1 OF 1			
BORING NUMBER: SB1-08	BORING LOCATION STATION: 38+25.0 OFFSET: 0.0 FT.	START: 05/08/2023 9:00 AM FINISH: 05/08/2023 4:00 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era				
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. ██████████ 5 FT.	TOP OF BORING ELEVATION: 336.4 FT.			
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		▽ 0 HR. READING - ELAPSED TIME: El. 323.3 ft. - 0.0 hr. ▼ 24 HR. READING - ELAPSED TIME: El. 323.4 ft. - 335.0 hr.					



**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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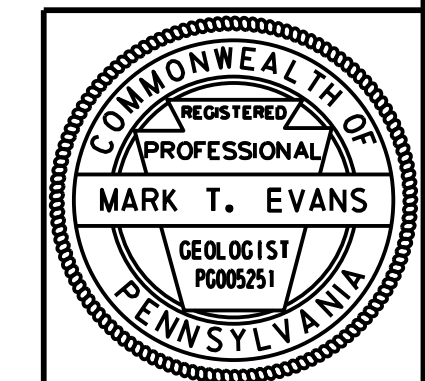
LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
 ME

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
DAUPHIN COUNTY
 S. R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 STRUCTURE BORINGS



\\11reser\var\SC1-NET\01\Projects\36011 (SR 3022 MacLay St. Br 1000) \GEO\TECHNICAL\CADD\WORKING FILES\TEST BORING SHEETS\SB1-07.TB (SB11).dgn
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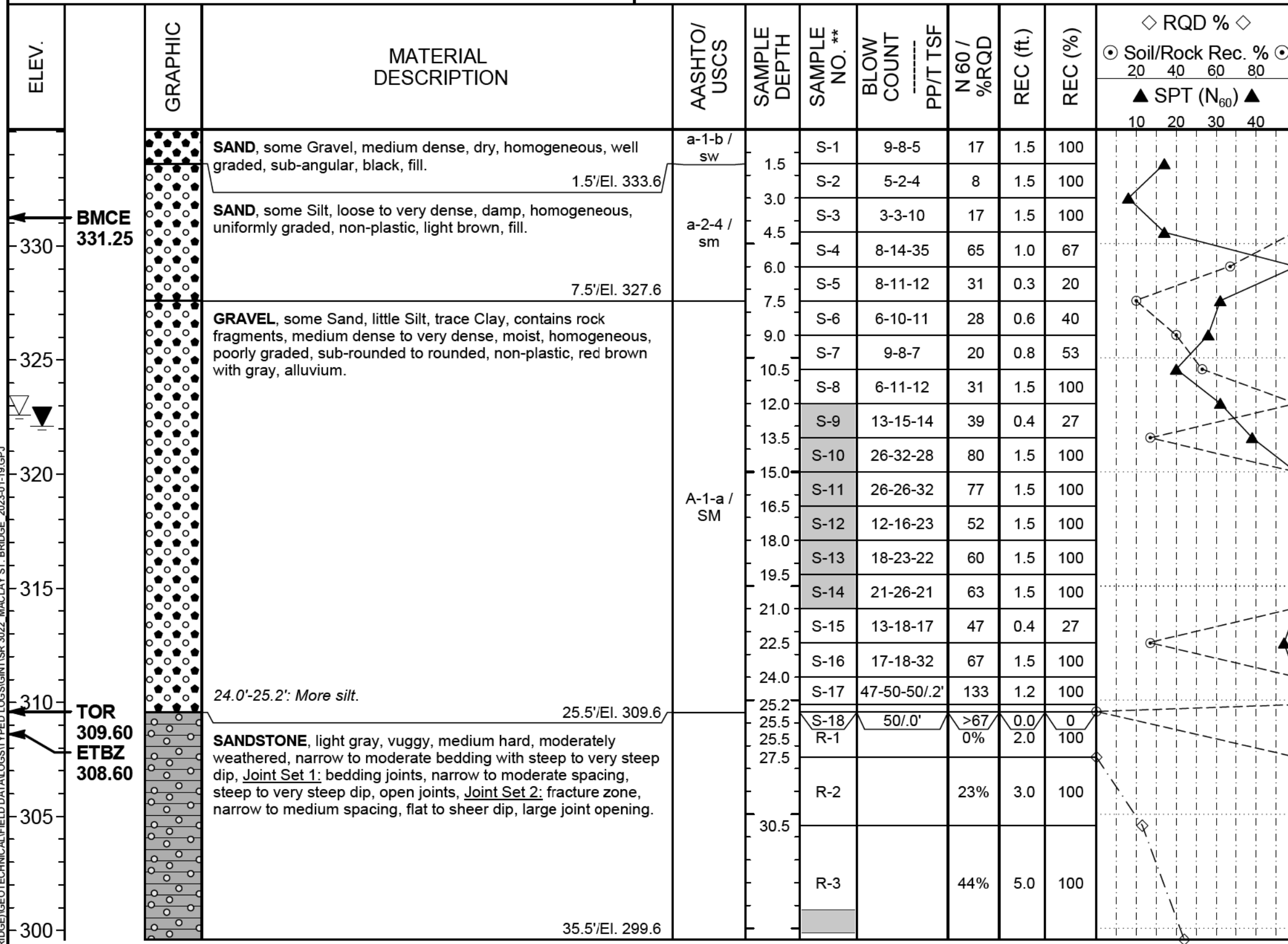
SUBSTRUCTURE UNIT: **PIER 2** LOG 1 OF 1

BORING NUMBER: **SB1-09** BORING LOCATION STATION: 38+20.0 OFFSET: 45.0 FT. RT. START: 05/09/2023 8:00 AM HAMMER: AUTOMATIC FINISH: 05/09/2023 12:45 PM EFFICIENCY: 0.8 Era

DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG SIZE OF CORE: 2.000 IN. VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 335.1 FT.

DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT

0 HR. READING - ELAPSED TIME: El. 322.6 ft. - 0.0 hr.
24 HR. READING - ELAPSED TIME: El. 322.1 ft. - 314.0 hr.



**SAMPLE NO. shading indicates lab testing performed.

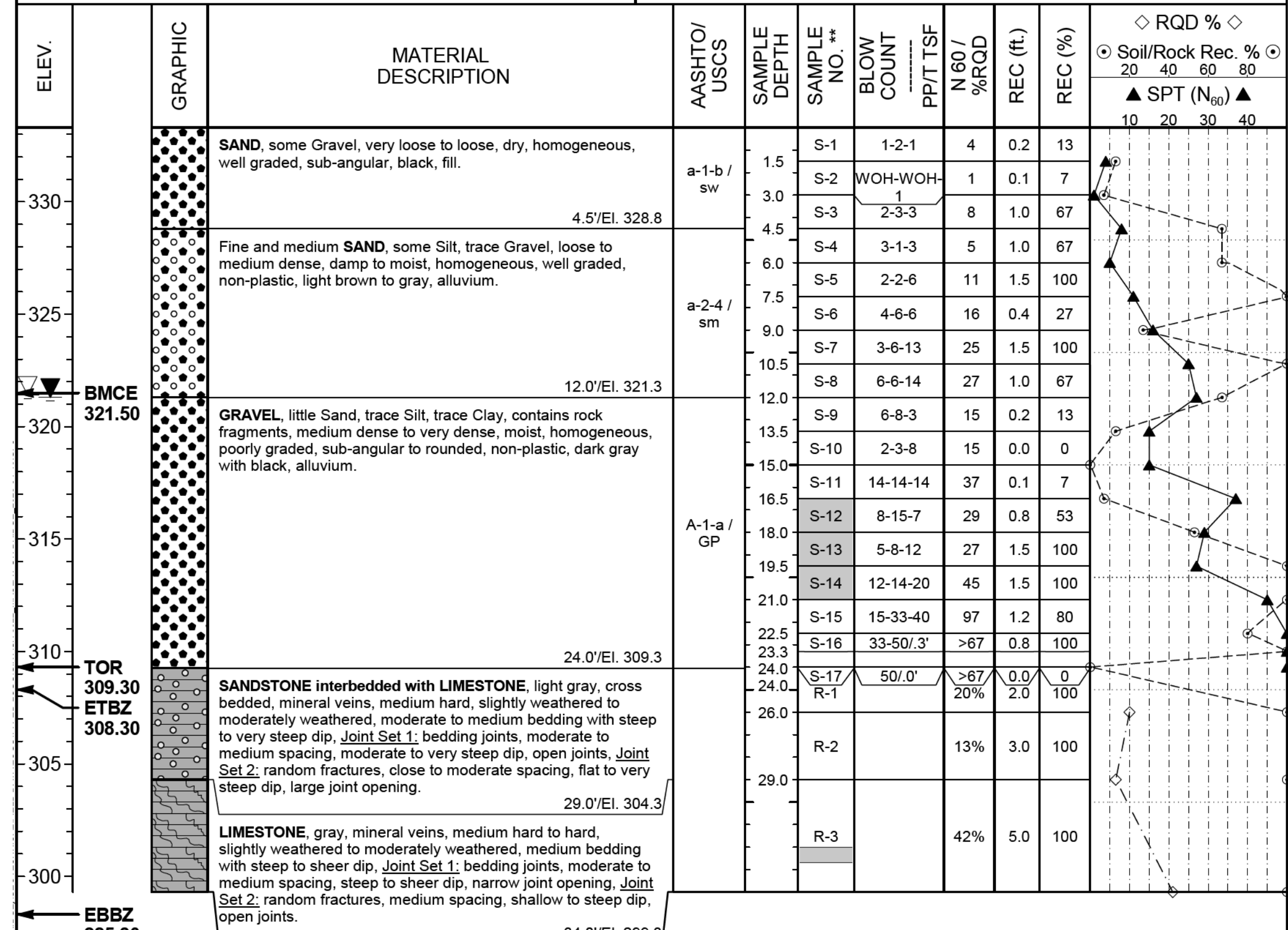
SUBSTRUCTURE UNIT: **PIER 3** LOG 1 OF 1

BORING NUMBER: **SB1-10** BORING LOCATION STATION: 39+85.0 OFFSET: 55.0 FT. LT. START: 05/17/2023 12:00 PM HAMMER: AUTOMATIC FINISH: 05/17/2023 4:30 PM EFFICIENCY: 0.8 Era

DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG SIZE OF CORE: 2.000 IN. VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 333.3 FT.

DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT

0 HR. READING - ELAPSED TIME: El. 321.4 ft. - 0.0 hr.
24 HR. READING - ELAPSED TIME: El. 321.3 ft. - 119.2 hr.



**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
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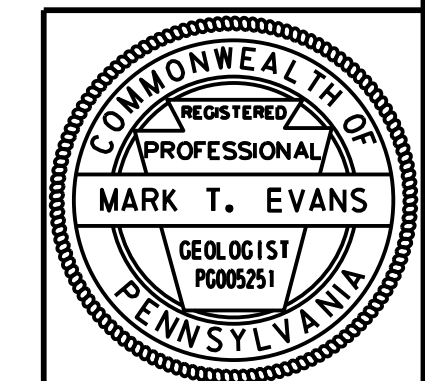
THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

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S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS



DATE: 2026.05.15

SHEET 91 OF 97

S - 42336

SUBSTRUCTURE UNIT: PIER 3		LOG 1 OF 1								
BORING NUMBER: SB1-11	BORING LOCATION STATION: 39+85.0 OFFSET: 0.0 FT.	START: 05/16/2023 8:00 AM FINISH: 05/17/2023 11:00 AM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era							
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT.							
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		TOP OF BORING ELEVATION: 333.4 FT.								
▽ 0 HR. READING - ELAPSED TIME: EI. 322.4 ft. - 0.0 hr.		▽ 24 HR. READING - ELAPSED TIME: EI. 322.4 ft. - 124.6 hr.								
ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO. **	BLOW COUNT	N 60 / %RQD	REC (ft)	REC (%)	RQD %
										Soil/Rock Rec. % 20 40 60 80 ▲ SPT (N ₆₀) ▲
330		SAND, some Gravel, loose to medium dense, dry, homogeneous, well graded, sub-angular, black, fill. 3.0'/EI. 330.4	a-1-b / sw	1.5	S-1	4-8-4	16	1.2	80	
		SILT, little Clay, little Sand, trace Gravel, loose to medium dense, damp to moist, homogeneous, well graded, low plastic fines, light brown to gray, alluvium.		3.0	S-2	2-3-3	8	1.5	100	
				4.5	S-3	2-2-4	8	1.0	67	
				6.0	S-4	2-2-2	5	1.5	100	
				7.5	S-5	WOH-WOH-4	5	1.2	80	
				9.0	S-6	WOH-2-5	9	1.0	67	
				10.5	S-7	5-7-11	24	1.5	100	
				12.0	S-8	5-6-16	29	1.3	87	
		SAND and GRAVEL, little Silt, contains rock fragments, medium dense to very dense, moist, homogeneous, poorly graded, sub-angular to rounded, dark gray with black, alluvium. 12.0'/EI. 321.4	A-4 / ML	12.0	S-9	12-10-10	27	1.5	100	
				13.5	S-10	11-12-11	31	1.5	100	
				15.0	S-11	11-11-14	33	1.5	100	
				16.5	S-12	10-50/3'	>67	0.8	100	
		17.3' Casing refusal.	a-1-b / sp-sm	17.3	R-1		20%	0.9	45	
				19.3	R-2		0%	0.0	0	
		SANDSTONE red gray, medium hard, moderately weathered, indistinct bedding, fracture zone, close spacing, flat to sheer dip, wide joint opening, Sandstone boulder. 19.3'/EI. 314.1		19.3	S-13	8-16-24	53	1.5	100	
				20.3	S-14	31-33-50/2'	111	1.2	100	
		NO RECOVERY. 20.5'/EI. 312.9	a-1-b / sm	22.0	S-15	31-50/2'	>67	0.7	100	
				23.2	R-3		0%	1.7	85	
				24.2	R-4		0%	2.4	80	
		SAND, some Gravel, some Silt, contains rock fragments, very dense, damp to moist, homogeneous, poorly graded, sub-angular to flat, dark gray with brown, residuum. 24.5'/EI. 308.9		24.5	R-5		0%	4.0	80	
		24.5' Casing refusal.		26.5						
				29.5						
		SHALE interbedded with SANDSTONE, light gray, soft to medium hard, slightly weathered to moderately weathered, thin to moderate bedding with flat to steep dip, Joint Set 1: bedding joints, moderate to medium spacing, shallow to steep dip, open joints, Joint Set 2: fracture zone, close to moderate spacing, flat to sheer dip, wide joint opening, very broken. 34.5'/EI. 298.9		34.5						

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT: PIER 3		LOG 1 OF 1								
BORING NUMBER: SB1-12	BORING LOCATION STATION: 39+85.0 OFFSET: 45.0 FT. RT.	START: 05/15/2023 8:30 AM FINISH: 05/15/2023 4:15 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era							
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT.							
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		TOP OF BORING ELEVATION: 329.9 FT.								
▽ 0 HR. READING - ELAPSED TIME: EI. 322.9 ft. - 0.0 hr.		▽ 24 HR. READING - ELAPSED TIME: EI. 322.6 ft. - 167.4 hr.								
ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO. **	BLOW COUNT	N 60 / %RQD	REC (ft)	REC (%)	RQD %
										Soil/Rock Rec. % 20 40 60 80 ▲ SPT (N ₆₀) ▲
325		SAND, some Gravel, medium dense, dry, homogeneous, poorly graded, sub-angular, black, fill. 4.5'/EI. 325.4	a-1-b / sp	1.5	S-1	5-6-8	19	0.0	0	
				3.0	S-2	5-6-3	12	0.6	40	
				4.5	S-3	3-5-5	13	0.2	13	
		Fine and medium SAND, some Silt, some Gravel, contains rock fragments, medium dense to very dense, damp to moist, homogeneous, poorly graded, angular to sub-angular, non-plastic, light gray, alluvium.	a-2-4 / sm	6.0	S-4	2-4-6	13	1.5	100	
				7.5	S-5	7-11-11	29	1.2	80	
				9.0	S-6	7-30-39	92	0.3	20	
				10.5	S-7	19-17-22	52	1.0	67	
		GRAVEL, some Sand, trace Silt, trace Clay, contains rock fragments, dense to very dense, moist to wet, homogeneous, poorly graded, angular to rounded, non-plastic, light gray, alluvium. 9.0'/EI. 320.9	A-1-a / GW-GM	12.0	S-8	10-17-18	47	1.5	100	
				13.5	S-9	11-12-18	40	1.5	100	
				15.0	S-10	10-17-17	45	1.5	100	
				16.5	S-11	14-16-25	55	1.5	100	
				17.9	S-12	17-29-50/4'	105	1.4	100	
		16.5'-17.9': Silty sand.		18.0	S-13	50/1'	>67	0.1	100	
				18.1	R-1		27%	2.8	93	
		18.8' Casing refusal.		18.8						
				21.8	R-2		8%	4.7	94	
		LIMESTONE, light gray, medium hard, moderately weathered, narrow to moderate bedding with shallow to moderate dip, bedding joints, close to moderate spacing, shallow to moderate dip, open joints. 23.8'/EI. 306.1		23.8	R-3		18%	1.9	95	
				26.8						
		SANDSTONE, brown to light gray, cross bedded, vuggy, soft to medium hard, weathered to highly weathered, narrow bedding with moderate to steep dip, Joint Set 1: bedding joints, narrow to close spacing, shallow to steep dip, large joint opening, Joint Set 2: random fractures, moderate to medium spacing, shallow to very steep dip, large joint opening. 28.8'/EI. 301.1		28.8						
		28.1'-28.4': Limestone interbedding.		28.8						

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GENERAL NOTES

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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

\\11\reser\var\SC1-NE\T\01\Projects\36011 (SR 3022 Macloy St., Br 1000)\GEO\TECHNICAL\CAD\WORKING FILES\TEST BORING SHEETS\SB1-36011.GT.TB (SE11).cgm
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S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S. R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 STRUCTURE BORINGS

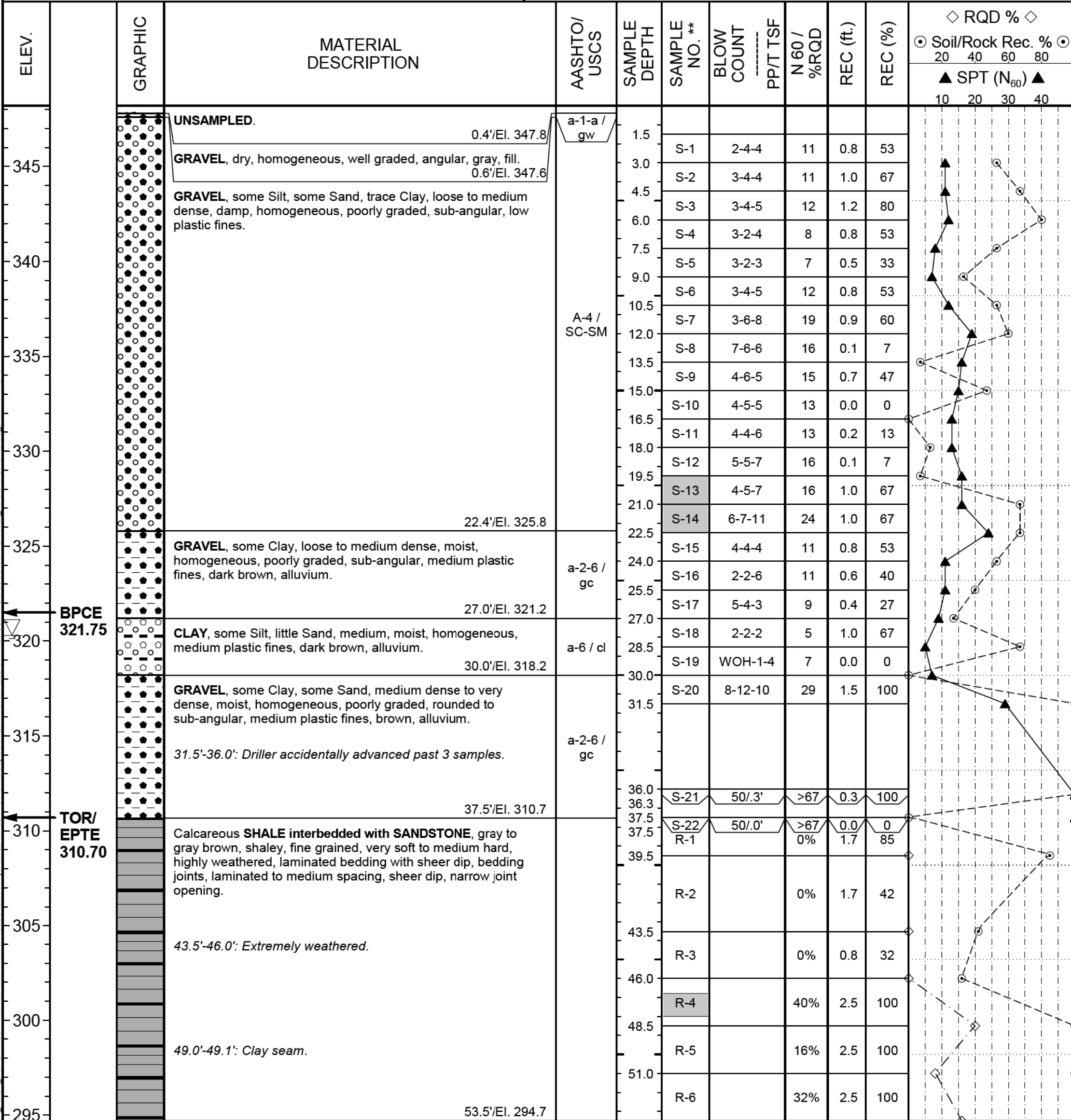
MARK T. EVANS
 REGISTERED PROFESSIONAL
 GEOLOGIST
 PC006251

2026.05.15
 DATE

SHEET 92 OF 97
 S - 42336

SUBSTRUCTURE UNIT: **ABUTMENT 2 AND WINGWALL C** LOG 1 OF 1

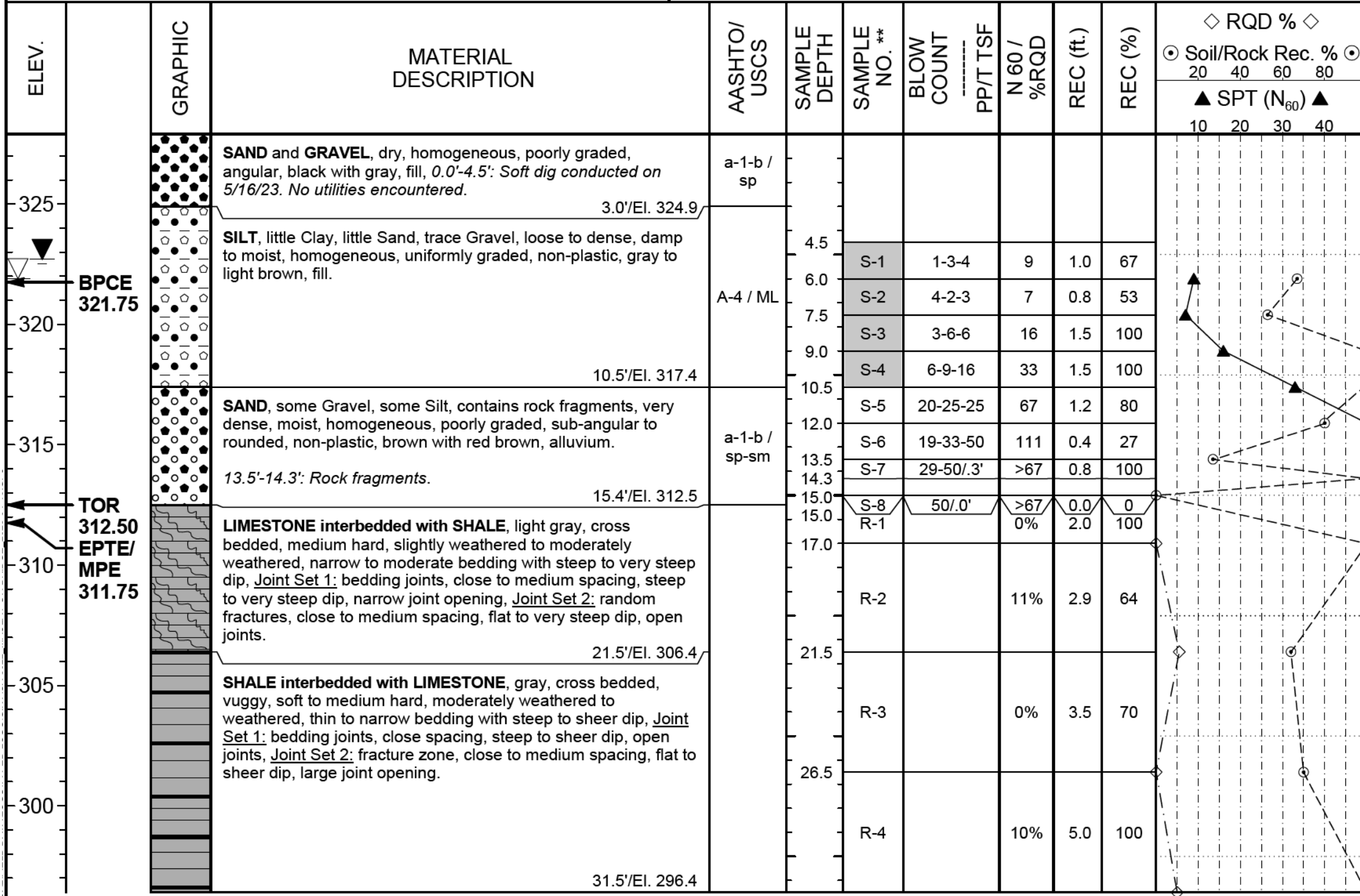
BORING NUMBER: SB1-13	BORING LOCATION STATION: 41+30.0 OFFSET: 55.0 FT. LT.	START: 01/18/2023 12:40 PM FINISH: 01/20/2023 12:38 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 348.2 FT.
DRILLING INSPECTOR: JEFFREY WARY/NEIL BODLEY DRILLER & DRILLING COMPANY: KURT BASSET NARVARRO AND WRIGHT		∇ 0 HR. READING - ELAPSED TIME: EI. 320.3 ft. - 0.0 hr. ▼ 24 HR. READING - ELAPSED TIME: NR - NR	



**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT: **ABUTMENT 2** LOG 1 OF 1

BORING NUMBER: SB1-14	BORING LOCATION STATION: 40+95.0 OFFSET: 0.0 FT.	START: 05/23/2023 8:30 AM FINISH: 05/23/2023 1:00 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK MOUNTED RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 0 FT. 5 FT. TOP OF BORING ELEVATION: 327.9 FT.
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT		∇ 0 HR. READING - ELAPSED TIME: EI. 321.9 ft. - 0.2 hr. ▼ 24 HR. READING - ELAPSED TIME: EI. 322.7 ft. - 22.1 hr.	



**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

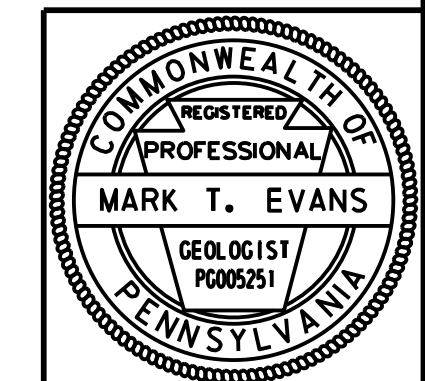
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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

\\11reser\var\SC1-NE\T\01\Projects\36011 (SR 3022 MacIay St., Br Idg)\GEO\TECHNICAL\CADD\WORKING FILES\TEST BORING SHEETS\SB1-136011.ctb (SB11).dgn
 3/17/2026 11:15:38 PM rr fchndr



S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

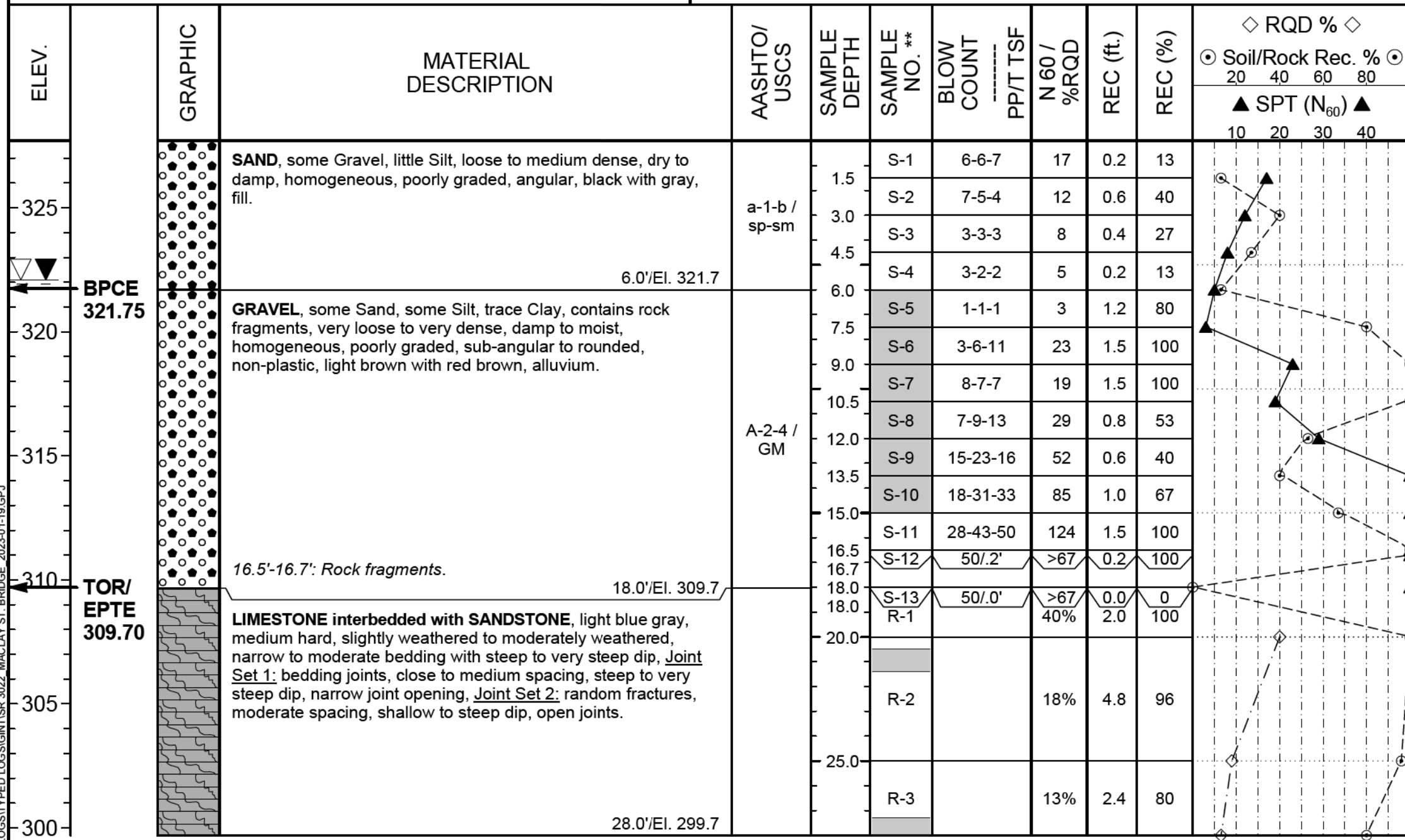
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS

DATE: 2026.05.15

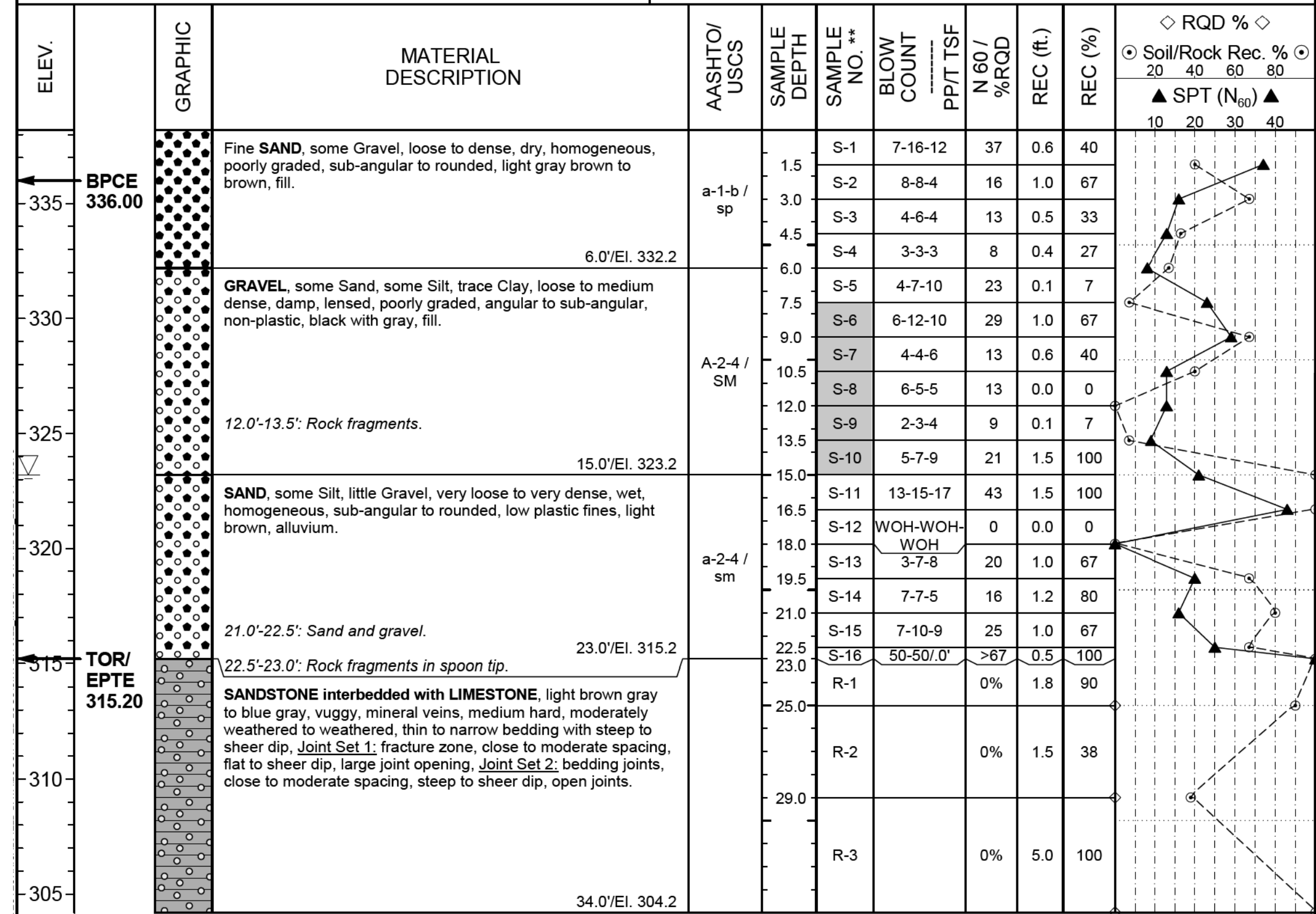
SHEET 93 OF 97
S - 42336

SUBSTRUCTURE UNIT: ABUTMENT 2 AND WINGWALL D				LOG 1 OF 1			
BORING NUMBER: SB1-15A		BORING LOCATION STATION: 41+03.0 OFFSET: 45.0 FT. RT.		START: 05/23/2023 2:15 PM FINISH: 05/23/2023 4:20 PM		HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era	
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK MOUNTED RIG				SIZE OF CORE: 2.000 IN.		VERTICAL SCALE: 0 FT. 5 FT.	
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO & WRIGHT				∇ 0 HR. READING - ELAPSED TIME: El. 322.1 ft. - 0.0 hr. ▼ 24 HR. READING - ELAPSED TIME: El. 322.1 ft. - 18.7 hr.			



**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT: WINGWALL D EXTENSION				LOG 1 OF 1			
BORING NUMBER: SB3-01		BORING LOCATION STATION: 41+46.0 OFFSET: 40.0 FT. RT.		START: 06/01/2023 10:30 AM FINISH: 06/01/2023 2:30 PM		HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era	
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG				SIZE OF CORE: 2.000 IN.		VERTICAL SCALE: 0 FT. 5 FT.	
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO AND WRIGHT				∇ 0 HR. READING - ELAPSED TIME: El. 323.2 ft. - 0.0 hr. ¹ ▼ 24 HR. READING - ELAPSED TIME: NR - NR			



¹0-hr. Water: Boring grouted upon completion.

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

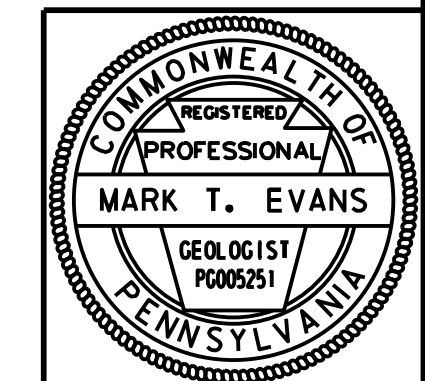
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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.
ME

\\f1\reserv\ar\SC1-NET\01\Projects\36011\SR 3022 Macloy St. Br 10gpl\GEO\TECHNICAL\CADD\WORKING FILES\TEST BORING SHEETS\SB1\36011.GT.TB (SE1).dgn
 3/17/2026 11:18:00 PM rr fchngs



S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS

SHEET 94 OF 97

2026.05.15
DATE

S - 42336

SUBSTRUCTURE UNIT: WINGWALL D EXTENSION		LOG 1 OF 1	
BORING NUMBER: SB3-02	BORING LOCATION STATION: 41+92.0 OFFSET: 46.0 FT. RT.	START: 05/31/2023 10:00 AM FINISH: 05/31/2023 3:30 PM	HAMMER: AUTOMATIC EFFICIENCY: 0.8 Era
DRILLING METHOD AND EQUIPMENT: DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER XLS TRACK RIG		SIZE OF CORE: 2.000 IN.	VERTICAL SCALE: 5 FT. TOP OF BORING ELEVATION: 343.0 FT.
DRILLING INSPECTOR: ROBERT NAGY DRILLER & DRILLING COMPANY: KARL AUMILLER NAVARRO AND WRIGHT		▽ 0 HR. READING - ELAPSED TIME: El. 322.5 ft. - 0.0 hr. ▼ 24 HR. READING - ELAPSED TIME: Dry - 23.3 hr. ¹	

GENERAL NOTES

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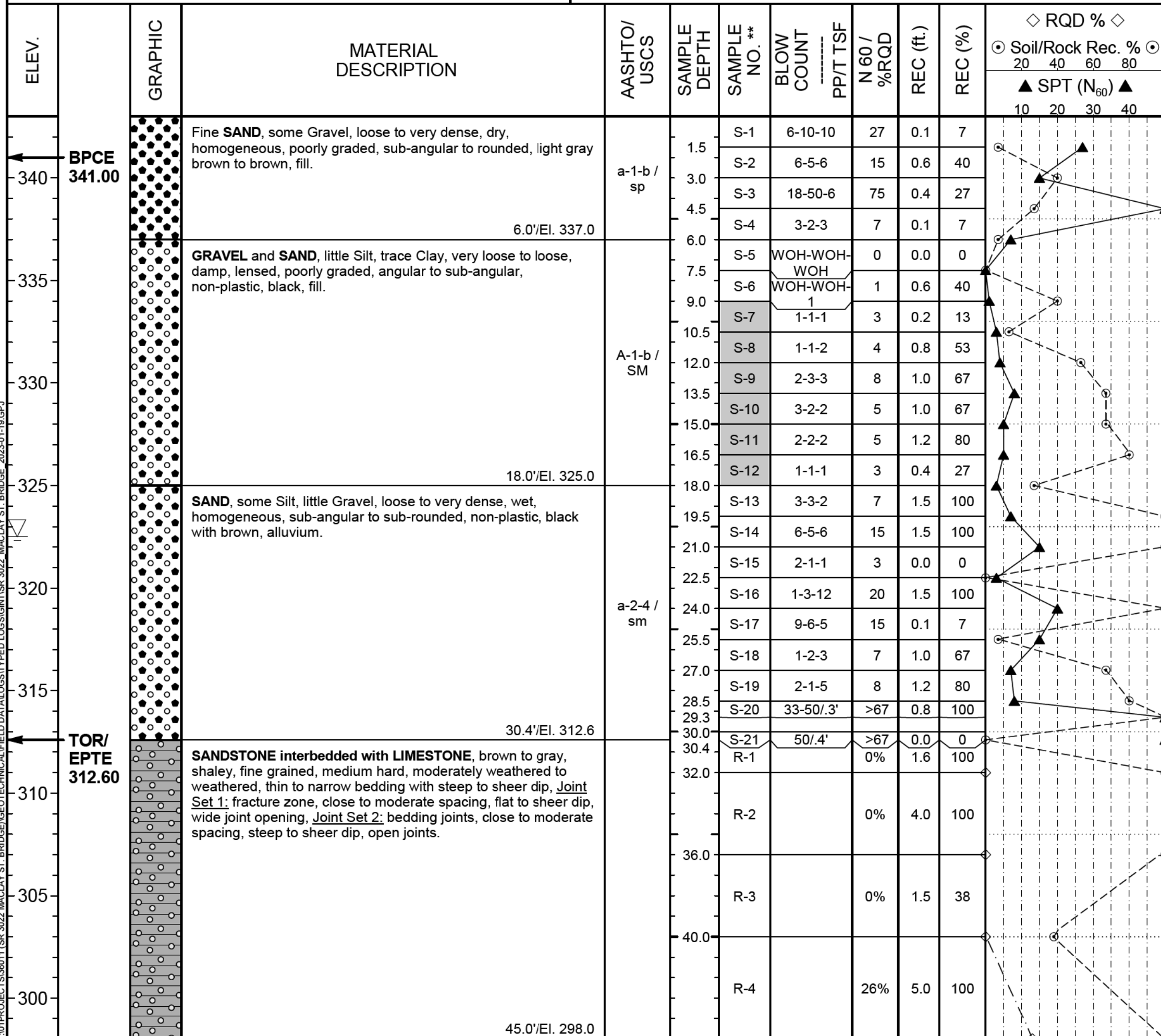
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LEGEND

- PP POCKET PENETROMETER
- T TORVANE
- NTS NOT TO SCALE
- BMCE BOTTOM OF MICROPILE CAP ELEVATION
- BPCE BOTTOM OF PILE CAP ELEVATION
- EBBZ ESTIMATED BOTTOM OF BOND ZONE ELEVATION
- ETBZ ESTIMATED TOP OF BOND ZONE ELEVATION
- EPTE ESTIMATED PILE TIP ELEVATION
- MPE MANDATORY PREDRILL ELEVATION
- TOR ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

ME



¹24-hr. Water: Boring collapsed to 15.0' below surface elevation.

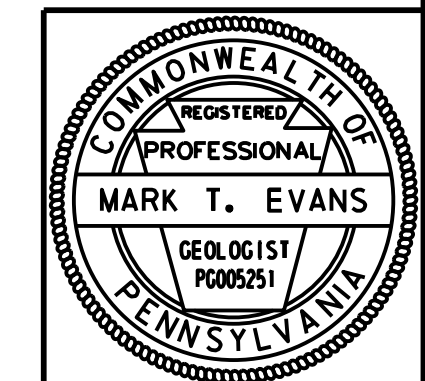
**SAMPLE NO. shading indicates lab testing performed.

\\f1reser\var\SC1-NE\T01\Projects\36011 (SR 3022 Macloy St. Br 1000) \GEO\TECHNICAL\CAD\WORKING FILES\TEST BORING SHEETS\SB\36011.GT.TB (SE1).dgn
 3/17/2026 11:18:02 PM rr fchndr

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
 BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 S. R. 3022 SECTION 005
 SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
 MACLAY STREET STA. 38+59.50
 OVER NORFOLK SOUTHERN RAILWAY
 4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
 STRUCTURE BORINGS



2026.05.15
 DATE

SHEET 95 OF 97
 S - 42336

LABORATORY TEST SUMMARY - SOILS

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	NATURAL MOISTURE %	% GRAIN SIZE DISTRIBUTION (AASHTO)							CLASSIFICATION		PLASTICITY PARAMETERS			SHEAR STRENGTH					
					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
SB1-01	36+15.0 48 ft. LT.	S-14 to 16	21.0 to 25.5	11.1	60.3	21.4	7.6	13.8	18.2	13.1	5.1	A-1-b	GM		21	19	2					
SB1-02	36+10.0 10 ft. LT.	S-3 to 8	4.5 to 13.5	16.4	39.1	18.4	8.3	10.0	42.5	33.7	8.8	A-4	GM		27	23	4					
SB1-03	36+00.0 45 ft. RT.	S-2 to 6	1.5 to 9.0	14.4	1.0	21.1	7.8	13.3	77.8	60.1	17.7	A-4	CL-ML		26	21	5	0.048	31.1			
SB1-04A	37+10.0 55 ft. LT.	S-8 to 10	15.0 to 19.5	20.4	25.1	57.1	22.3	34.9	17.7	15.9	1.8	A-2-4	SM		NP	NP	NP					
SB1-05A	37+05.0 0 ft.	S-5 to 9	6.0 to 13.5	10.4	50.8	32.4	16.2	16.2	16.8	12.5	4.3	A-1-b	SM		NP	NP	NP	0.000	33.3			
SB1-06A	36+97.0 45 ft. RT.	S-8 to 14	10.5 to 21.0	14.9	33.7	30.8	6.7	24.2	35.5	29.7	5.8	A-4	SM		NP	NP	NP					
SB1-07	38+30.0 55 ft. LT.	S-9 to 13	13.5 to 21.0	9.0	64.0	25.5	14.5	11.0	10.5	7.4	3.1	A-1-a	GW-GM		NP	NP	NP					
SB1-08	38+25.0 0 ft.	S-7 to 12	9.0 to 18.0	10.8	60.4	31.1	21.1	10.1	8.5	5.3	3.2	A-1-a	GW-GM		NP	NP	NP	0.042	33.4			
SB1-09	38+20.0 45 ft. RT.	S-9 to 14	12.0 to 21.0	8.5	55.3	30.3	18.2	12.1	14.5	10.7	3.8	A-1-a	SM		NP	NP	NP	0.000	37.0			
SB1-10	39+85.0 55 ft. LT.	S-12 to 14	16.5 to 21.0	7.6	77.9	18.0	11.0	7.0	4.1	3.0	1.1	A-1-a	GP		NP	NP	NP					
SB1-11	39+85.0 0 ft.	S-4 to 8	4.5 to 12.0	18.6	2.7	15.2	1.1	14.1	83.2	67.3	15.9	A-4	ML		24	21	3					
SB1-12	39+85.0 45 ft. RT.	S-7 to 11	9.0 to 16.5	9.9	66.4	25.9	15.2	10.7	7.7	5.0	2.7	A-1-a	GW-GM		NP	NP	NP	0.000	36.7			
SB1-13	41+30.0 55 ft. LT.	S-13 to 14	19.5 to 22.5	14.5	38.2	23.7	12.1	11.6	38.1	28.2	9.9	A-4	SC-SM		28	22	6					
SB1-14	40+95.0 0 ft.	S-1 to 4	4.5 to 10.5	21.3	1.2	12.4	1.2	11.2	86.3	70.7	15.6	A-4	ML		24	22	2					
SB1-15A	41+03.0 45 ft. RT.	S-5 to 10	6.0 to 15.0	12.3	47.7	23.7	6.6	17.2	28.6	21.6	7.0	A-2-4	GM		20	19	1	0.000	34.5			
SB3-01	41+46.0 40 ft. RT.	S-6 to 10	7.5 to 15.0	16.7	35.7	33.4	15.8	17.7	30.9	25.8	5.1	A-2-4	SM	2.70								
SB3-02	41+92.0 46 ft. RT.	S-7 to 12	9.0 to 18.0	33.4	42.1	38.6	19.6	19.0	19.3	16.4	2.9	A-1-b	SM	2.70				0.098	34.0			

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LEGEND

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- T TORVANE
- NTS NOT TO SCALE
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THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

ME

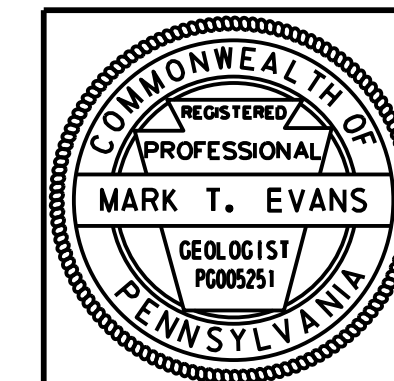
LABORATORY TEST SUMMARY - ELECTROCHEMICAL

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?
SB1-02	36+10.0 10 ft. LT.	S-3 to 8	4.5 to 13.5	GROUNDWATER SOIL	7.8	2	340	1	No	No	No Resistivity
SB1-06A	36+97.0 45 ft. RT.	S-8 to 14	10.5 to 21.0	GROUNDWATER SOIL	6.2	10	10	1	No	No	No Resistivity
SB1-07	38+30.0 55 ft. LT.	S-9 to 13	13.5 to 21.0	GROUNDWATER SOIL	6.5	17	0	1	No	No	No Resistivity
SB1-11	39+85.0 0 ft.	S-4 to 8	4.5 to 12.0	GROUNDWATER SOIL	6.0	1	160	4	No	No	No Resistivity
SB1-14	40+95.0 0 ft.	S-1 to 4	4.5 to 10.5	GROUNDWATER SOIL	7.1	1	460	0	No	No	No Resistivity

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ#: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
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2026.05.15
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SHEET 96 OF 97

S - 42336

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LEGEND

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LABORATORY TEST SUMMARY - ROCK CORE

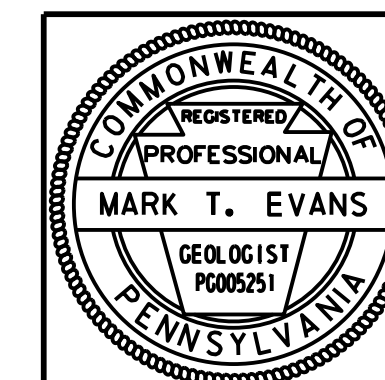
BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	TEST	STRENGTH	JAR SLAKE TEST PERFORMED?	SLAKE DURABILITY INDEX & TYPE	ROCK RECOVERY %	RQD %	BEDROCK LITHOLOGY	STRATIGRAPHIC UNIT
SB1-02	36+10.0 10 ft. LT.	R-1	43.5 to 43.9	UNCONFINED COMPRESSIVE TEST	806.9 PSI / 58.1 TSF	NO		90	20	SHALE	
SB1-02	36+10.0 10 ft. LT.	R-5	53.2 to 54.3	UNCONFINED COMPRESSIVE TEST	13470.8 PSI / 969.9 TSF	NO		92	72	SHALE	
SB1-03	36+00.0 45 ft. RT.	R-3	24.7 to 25.4	UNCONFINED COMPRESSIVE TEST	2830.6 PSI / 203.8 TSF	NO		100	12	LIMESTONE	
SB1-04A	37+10.0 55 ft. LT.	R-1	27.4 to 27.9	UNCONFINED COMPRESSIVE TEST	12326.4 PSI / 887.5 TSF	NO		100	40	LIMESTONE	
SB1-04A	37+10.0 55 ft. LT.	R-3	32.7 to 33.3	UNCONFINED COMPRESSIVE TEST	5541.7 PSI / 399.0 TSF	NO		94	37	LIMESTONE	
SB1-05A	37+05.0 0 ft.	R-1	21.6 to 22.1	UNCONFINED COMPRESSIVE TEST	3620.8 PSI / 260.7 TSF	NO		100	50	LIMESTONE	
SB1-05A	37+05.0 0 ft.	R-3	28.3 to 29.0	UNCONFINED COMPRESSIVE TEST	6922.2 PSI / 498.4 TSF	NO		100	30	LIMESTONE	
SB1-08	38+25.0 0 ft.	R-2	26.8 to 27.3	UNCONFINED COMPRESSIVE TEST	6513.9 PSI / 469.0 TSF	NO		100	23	SANDSTONE	
SB1-09	38+20.0 45 ft. RT.	R-3	34.2 to 35.2	UNCONFINED COMPRESSIVE TEST	16791.7 PSI / 1,209.0 TSF	NO		100	44	SANDSTONE	
SB1-10	39+85.0 55 ft. LT.	R-3	32.0 to 32.7	UNCONFINED COMPRESSIVE TEST	15390.3 PSI / 1,108.1 TSF	NO		100	42	LIMESTONE	
SB1-12	39+85.0 45 ft. RT.	R-1	20.0 to 20.4	UNCONFINED COMPRESSIVE TEST	5238.9 PSI / 377.2 TSF	NO		93	27	LIMESTONE	
SB1-13	41+30.0 55 ft. LT.	R-4	46.8 to 48.0	UNCONFINED COMPRESSIVE TEST	7812.5 PSI / 562.5 TSF	NO		100	40	SHALE	
SB1-15A	41+03.0 45 ft. RT.	R-2	20.5 to 21.4	UNCONFINED COMPRESSIVE TEST	15080.6 PSI / 1,085.8 TSF	NO		96	18	LIMESTONE	
SB1-15A	41+03.0 45 ft. RT.	R-3	27.3 to 28.0	UNCONFINED COMPRESSIVE TEST	10931.9 PSI / 787.1 TSF	NO		80	13	LIMESTONE	
SB3-02	41+92.0 46 ft. RT.	R-4	44.1 to 45.0	UNCONFINED COMPRESSIVE TEST	4941.7 PSI / 355.8 TSF	NO		100	26	SANDSTONE	

\\1\reserv\sc1-net\01\Projects\36011\SR 3022 Macloy St. Br\001\GEO\TECHNICAL\CADD\WORKING FILES\TEST BORING SHEETS\SB\36011.GT.TB (SE1).dgn 3/17/2026 11:18:04 PM rr fchndgs

S. R. 3022 PREVIOUSLY KNOWN AS L. R. 00001
BMS STR ID: 22-3022-0022-0000 MPMS/ECMS PROJ: 74521 BRKEY: 70397

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
S. R. 3022 SECTION 005
SEG 0022 OFF 0000 EB, SEG 0023 OFF 0000 WB
MACLAY STREET STA. 38+59.50
OVER NORFOLK SOUTHERN RAILWAY
4 SPAN CONT COMP STEEL PLATE GIRDER BRIDGE
STRUCTURE BORINGS



2026.05.15
DATE

SHEET 97 OF 97

S - 42336