

DISTRICT	COUNTY	TOWNSHIP	CITY	ROUTE	SECTION	TOTAL SHEETS
5-0	BERKS		READING	0183	05B	63

ECMS NO. 91091

COMMONWEALTH OF PENNSYLVANIA



DEPARTMENT OF TRANSPORTATION

DRAWINGS

FOR CONSTRUCTION OF

STATE ROUTE 0183 SECTION 05B IN BERKS COUNTY

FROM STA 1+40.00 TO STA 8+70.00 LENGTH 630.00 FT 0.119 MI

FROM SEG 0025 OFFSET 1418 TO SEG 0027 OFFSET 0104

ALSO INCLUDED:

- TRAFFIC CONTROL PLAN - 38 SHEETS
- SIGNING AND PAVEMENT MARKING PLAN - 4 SHEETS
- WATER RELOCATION PLAN - 12 SHEETS
- EROSION AND SEDIMENT POLLUTION CONTROL PLAN - 24 SHEETS
- STRUCTURE PLAN S-36195 - 54 SHEETS
- CROSS SECTIONS - 35 SHEETS
- POST CONSTRUCTION STORMWATER MANAGEMENT PLAN - 12 SHEETS

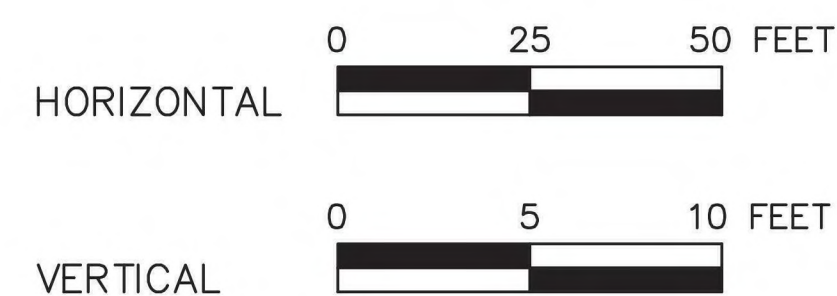
CERTIFIED CORRECT PLANS

Daniel P. Hallbach
Professional Engineer
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION

ATTEST *Rosemary Chiverton*
Secretary

DOCKET A-2018-3000172

SCALE



DESIGN DESIGNATION
SR 0183

HIGHWAY CLASSIFICATION – URBAN CORE COMMUNITY ARTERIAL
DESIGN SPEED – 25 MPH
PAVEMENT WIDTH – 20' (2-10' LANES)
SHOULDER WIDTH – 2' LT, 8' RT

TRAFFIC DATA

CURRENT YEAR A.D.T. – 6899 (2022)
DESIGN YEAR A.D.T. – 7458 (2042)
DHV – 597
D – 100%
T – 2%

PREPARED BY:
McTISH, KUNKEL & ASSOCIATES
CONSULTING ENGINEERS
3500 WINCHESTER RD.
SUITE 300
ALLENTOWN, PA

Lisa Ann Martin
ENGINEER
PE056124

Digitally signed by Lisa Martin
DN: cn=Lisa Martin, o=McTish, Kunkel & Associates, c=PA, email=Lisa.Martin@mkandassociates.com, Date: 2022.12.22 15:44:16-0500

Digitally signed by Michael W. Rebert
DATE: 2022.12.23 16:50:24 -05'00'

RECOMMENDED **Michael W. Rebert** DISTRICT EXECUTIVE

RECOMMENDED DATE: _____ DEPUTY SECRETARY

APPROVED DATE: _____ SECRETARY OF TRANSPORTATION
(ON BEHALF OF THE GOVERNOR AS WELL AS THE SECRETARY)

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SHEET INDEX BLOCK	
DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
LOCATION MAP AND GENERAL NOTES	3
TRAVERSE SKETCH AND REFERENCE CIRCLES	4 TO 5
TYPICAL SECTIONS	6 TO 12
ADA DETAILS	13 TO 34
DETAILS	35 TO 42
SUMMARY SHEETS	43 TO 44
TABULATION SHEETS	45 TO 60
PLAN SHEETS	61 TO 62
PROFILE SHEET	63

TABULATION OF SEGMENT EQUALITIES

SEGMENT 0025 OFFSET 2044 =
 SEGMENT 0027 OFFSET 0000 =
 STATION 7+66

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	2 OF 63

CITY OF READING

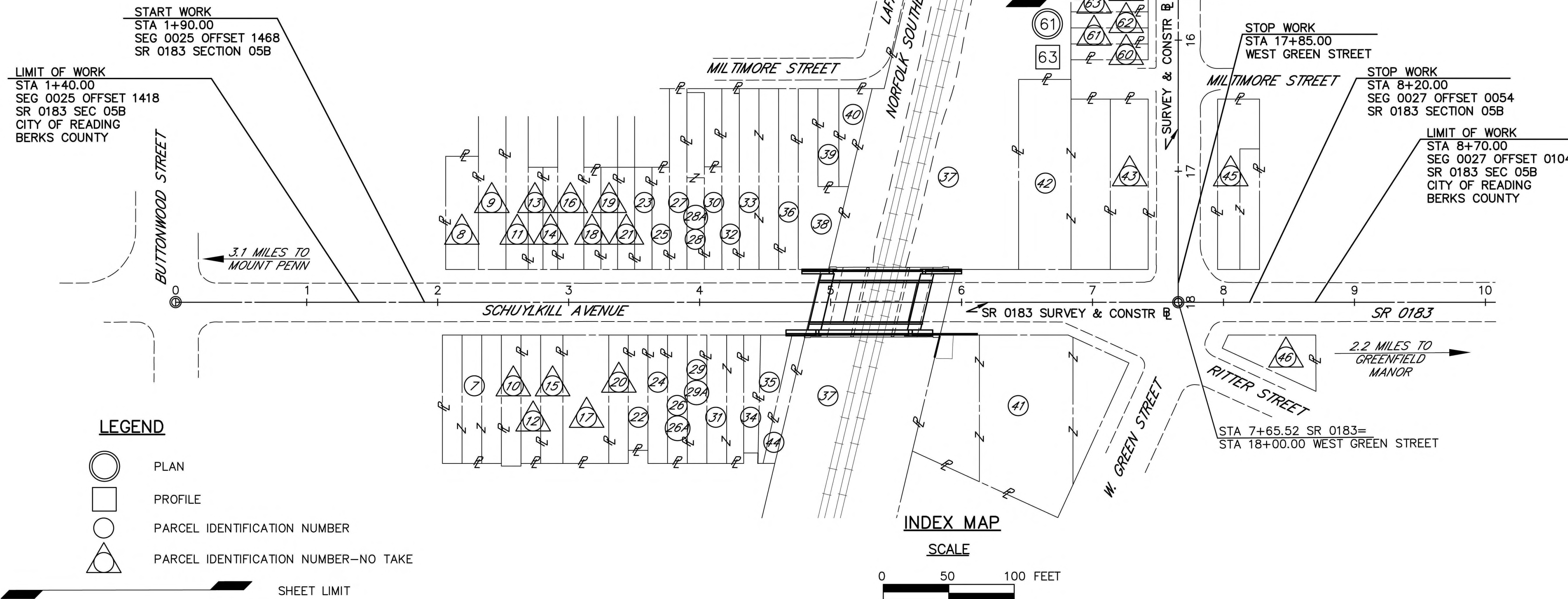
REVISION NUMBER	REVISIONS	DATE	BY

PROPERTY OWNERS:
(CONTINUED)

- 29A 29 JEAN JUNIOR BAZILE & DAVE OLSEN MOUSCARDY
- 30 WILSON LABOY
- 31 EUGENIO A. MIRANDA
- 32 MANNY FORTUNATO
- 33 THE CITY OF READING
- 34 SARA E. KEY
- 35 NEFTALI ORTIZ & ALICIA ORTIZ, HIS WIFE
- 36 MIRIAN TORO
- 37 NORFOLK SOUTHERN RAILWAY COMPANY, SUCCESSOR THROUGH MERGER TO PENNSYLVANIA LINES, LLC
- 38 DAVID CRESPO
- 39 HABITAT FOR HUMANITY OF BERKS COUNTY
- 40 HABITAT FOR HUMANITY OF BERKS COUNTY, INC.
- 41 GOD'S WORSHIP & PRAISE TEMPLE OF SPIRIT & TRUTH MINISTRIES, INC.
- 42 WINDSOR WAY HOLDINGS LLC
- 43 WILLIAM J. GERNERT
- 44 UNKNOWN OWNER
- 60 RIGOBERTO PENA
- 61 ERICK BURGOS GARCIA
- 62 JULIO PADILLA & BERTHA Y. GUZMAN, H/W
- 63 JOSE A. ABREU
- 64 JULIO A. PADILLA-TAPIA
- 65 EDY A. GARCIA-TERRERO
- 66 GUILANA HERNANDEZ-HERNANDEZ
- 67 DENNY MARAI RODRIGUEZ-DE COSTE & RAMON COSTE
- 68 DAVID CHACON-PELAEZ
- 69 ANDRES RAMOS & ANA RAMOS
- 70 ELLIOT VELEZ-SANCHEZ
- 71 THE CITY OF READING

PROPERTY OWNERS

- | | |
|--------------------------------------|--|
| 7 READING PARKING AUTHORITY | 18 SAREK PROPERTIES, LLC, A PENNSYLVANIA LIMITED LIABILITY COMPANY |
| 8 REYNOSO REAL ESTATE LLC | 19 FATMIR DEMIROVIC & HADZIRA DEMIROVIC, H&W |
| 9 JUAN SORIANO | 20 EDWARD SANCHEZ |
| 10 BENJAMIN L. SPENCER, II | 21 PHILLIP SPRADLEY, III & MARY A. SPRADLEY, HIS WIFE |
| 11 ANN PHI-PHUNG NGO NGUYEN | 22 ESTERVINA ALCANTARA |
| 12 VICTOR RAMOS | 23 PEDRO A. CASTRO-SMITH & DAIROBI AYALA |
| 13 RUDDY MATOS | 24 CARMEN J. RIVERA |
| 14 MERCEDES LARA MALDONADO | 25 EDNA E. VINCENT |
| 15 CARLIXTA DE LA ROSA | 26A 26 MARITZA ROMAN & BRENDA ROMAN, MOTHER & DAUGHTER |
| 16 OVERLORD REAL ESTATE HOLDINGS LLC | 27 NELSON A. MIRANDA & DONNA L. FLICKER |
| 17 FREDY SALINAS | 28A 28 HILARIO HERNANDEZ-MERCEDES |



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LIST OF PUBLIC UTILITIES

SR 0183 SECTION 05B
PA ONE CALL
1-(800)-242-1776
SERIAL NO.
20130420767
20141760485
20162592569
20162592584
20201340500
20201340415
20201340554
20210191394

CITY OF READING
BERKS COUNTY

READING AREA WATER AUTHORITY
1801 KUTZTOWN ROAD
READING, PA 19604
610-406-6301
CONTACT: GARY PHILLIPS
GARY.PHILLIPS@READINGAREAWATER.COM

CROWN CASTLE FIBER
3200 HORIZON DRIVE, SUITE 100
KING OF PRUSSIA, PA 19406
610-567-7023
CONTACT: RON RHOADS
RON.RHOADS@CROWNCastle.COM

ZITO MEDIA
102 SOUTH MAIN STREET
COUDERSPORT, PA 16915
814-203-7970
CONTACT: JOE LAUBACH
JOE.LAUBACH@ZITOMEDIA.COM

METROPOLITAN EDISON CO./
FIRST ENERGY
2800 POTTSVILLE PIKE
READING, PA 19612
610-921-6457
CONTACT: MIKE SAUER
MSAUER@FIRSTENERGYCORP.COM

UGI UTILITIES
225 MORGANTOWN ROAD
READING, PA 19611
610-736-5571
CONTACT: KURT ZIELASKOWSKI
KZIELASKOWSKI@UGI.COM

VERIZON PENNSYLVANIA INC.
409 WASHINGTON STREET
READING, PA 19601
610-371-4344
CONTACT: JEFFREY KRAMER
JEFFREY.D.KRAMER@VERIZON.COM

CITY OF READING
815 WASHINGTON STREET
READING, PA 19601
610-655-6008
CONTACT: ROBERT GENSEMER
ROBERT.GENSEMER@READINGPA.GOV

AMERICAN U-TEL
9 ROBBINS TERRACE
HIGHLAND LAKES, NJ 07422
201-919-6632
CONTACT: MIKE WEISS

WINDSTREAM COMMUNICATIONS
202 EAST FIRST STREET
BIRDSBORO, PA 19508
610-404-6234
CONTACT: TIMOTHY COPELAND-WALCK
TIMOTHY.COPELAND-WALCK@WINDSTREAM.COM

COMCAST CABLE COMMUNICATIONS, LLC
400 RIVERFRONT DRIVE
READING, PA 19602
610-985-0690
CONTACT: JEFF JACOVIDIS
JEFF_JACOVIDIS@COMCAST.COM

FRONTIER COMMUNICATIONS
37 DILLER AVENUE
NEW HOLLAND, PA 17557
717-355-7328
CONTACT: CRAIG PLETZ
CRAIG.PLETZ@FTR.COM

MAW COMMUNICATIONS
P.O. BOX 978
READING, PA 19603
610-396-1050
CONTACT: IRVING PEREZ
IRV@MAWCOM.COM

TABULATION OF OVERALL LENGTH

STA 1+40.00 TO STA 8+70.00 = 730.00 FT = 0.138 MI

TABULATION OF CONSTRUCTION LENGTH

STA 1+90.00 TO STA 8+20.00 = 630.00 FT = 0.119 MI

LIST OF EQUALITIES

NONE

GENERAL NOTES

SR 0183 PREVIOUSLY KNOWN AS LR 310

THE LEGAL RIGHT OF WAY ON SR 0183, FORMERLY KNOWN AS LR 310, FROM STA 1+40.00 TO STA 4+46.32 AND FROM STATION 6+43.61 TO STATION 16+00.00 IS 50 FEET AS RECORDED ON MAY 15, 1771 IN ROAD BOOK 1, PAGE 112-15, IN THE BERKS COUNTY RECORDER OF DEEDS OFFICE, AND BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 28, 29, AND 5841.

THE LEGAL RIGHT OF WAY ON SR 0183, FROM STATION 4+46.32 TO STATION 6+43.61 IS VARIABLE BASED ON DRAWINGS AUTHORIZING ACQUISITION OF RIGHT OF WAY FOR STATE ROUTE 0183 SECTION 05B R/W, LAST REVISED ON SEPTEMBER 21, 2022, AND RECORDED IN BERKS COUNTY RECORDER OF DEEDS OFFICE IN INSTRUMENT NUMBER 2022037794.

THE LEGAL RIGHT OF WAY ON WEST GREENWICH STREET FROM STA 70+00.00 TO STA 88+00.00 IS 60 FEET BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 28, 29, 35 AND 36.

THE LEGAL RIGHT OF WAY ON WEST GREEN STREET FROM STA 0+00.00 TO STA 3+00.00 IS 60 FEET BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 29.

THE LEGAL RIGHT OF WAY ON SR 0183, NORTH FRONT STREET FROM STA 22+00.00 TO STA 25+70.00 IS 60 FEET, FROM STA 25+70.00 TO STA 27+20.00 IS 72 FEET, AND FROM STA 27+20.00 TO STA 38+00.00 IS 60 FEET BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 29 AND PLAN NO. 6259.

THE LEGAL RIGHT OF WAY ON ROSENTHAL STREET IS 40 FEET BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 5841, DATED JANUARY 8, 1976.

THE LEGAL RIGHT OF WAY ON DIVISION STREET IS 60 FEET BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 5841, DATED JANUARY 8, 1976.

THE LEGAL RIGHT OF WAY ON WEST BUTTONWOOD STREET FROM STA 50+00.00 TO STA 52+25.00 IS 74 FEET, BASED ON CITY OF READING ORDINANCE 44-1977, PASSED ON OCTOBER 19, 1977, AND SPOTTS, STEVENS AND MCCOY, INC., ENGINEERS PLAN NO. 7067-018 D-003, DATED OCTOBER 13, 1976.

THE LEGAL RIGHT OF WAY ON WEST BUTTONWOOD STREET FROM STA 52+25.00 TO STA 62+00.00 IS 60 FEET, BASED ON TOPOGRAPHIC MAP OF THE CITY OF READING AS SHOWN ON PLAN NO. 5841, DATED JANUARY 8, 1976.

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.

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 THE CITY OF READING. ADDITIONAL INFORMATION IS AVAILABLE AT <https://www.pa1call.org/PA811/Public/>.

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).

VERTICAL CONTROL FOR THE PROJECT IS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD88 (NGS KV2266).

HORIZONTAL CONTROL IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM (SOUTH ZONE). NORTH AMERICAN DATUM, NAD83 (2011).

THE HALF CIRCLED NUMBER INDICATES A SCALED DIMENSION $\frac{(+00)}{50}$

THE AVERAGE COMBINED SCALE FACTOR IS 0.99995305.

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

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

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	3 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

GENERAL NOTES (CONT'D)

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.

DRAINAGE EASEMENT. AN EASEMENT 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 DEPARTMENT'S PIPE OR DITCH WITHOUT ADVANCED WRITTEN APPROVAL BY THE DEPARTMENT OF TRANSPORTATION.

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 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.

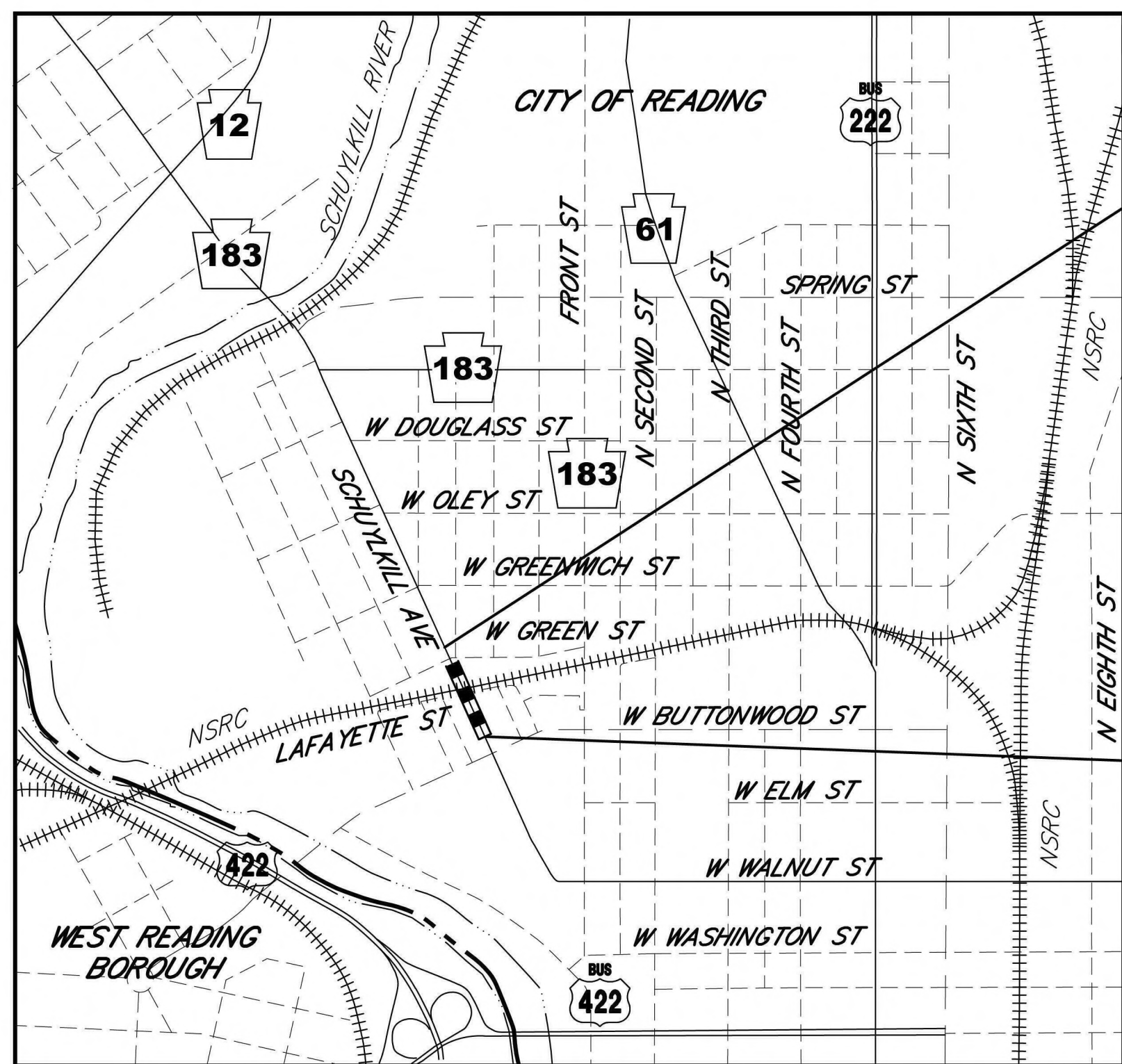
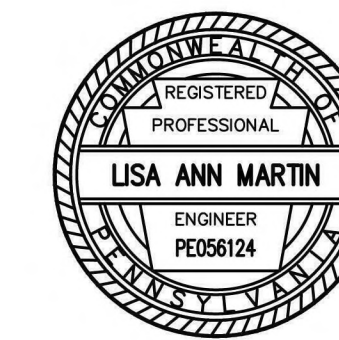
THE NOTES ON THESE DRAWINGS SHALL NOT BE CONSTRUED AS LIMITING OR INTERFERING IN ANY WAY WITH THE PRESENT AND FUTURE OPERATION, USE, MAINTENANCE, REPAIR, RENEWAL, CHANGE, ADDITION, BETTERMENT OR ALTERATION OF THE RAILROAD AND ITS SUPPORTING FACILITIES.

THE DEPARTMENT OF TRANSPORTATION DOES NOT GUARANTEE THE ACCURACY OF THE LOCATIONS OF EXISTING SUBSURFACE UTILITY STRUCTURES SHOWN ON THE PLANS, NOR DOES THE DEPARTMENT GUARANTEE THAT ALL SUBSURFACE STRUCTURES ARE SHOWN.

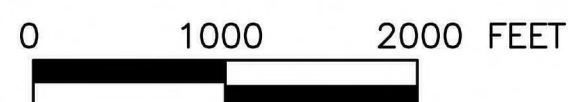
PRIVATE PROPERTY LINES ARE PLOTTED FROM THE DEED OF RECORD, RECORDED SUBDIVISION OR LOT PLANS, EXISTING TOPOGRAPHICAL FEATURES AND LIMITED FIELD DATA. PRIVATE PROPERTY LINES WERE NOT SURVEYED BY THE PROFESSIONAL LAND SURVEYOR RESPONSIBLE FOR THE PROJECT.

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

RC-10M	JUN. 1, 2010	RC-77M	DEC. 17, 2019
RC-11M	JUN. 1, 2010	RC-91M	DEC. 17, 2019
RC-12M	FEB. 8, 2019	TC-8600	JUN. 13, 2013
RC-13M	JUN. 1, 2010	TC-8604	AUG. 17, 2021
RC-23M	FEB. 8, 2019	TC-8700C	JUN. 13, 2013
RC-24M	FEB. 19, 2021	TC-8702B	JUN. 13, 2013
RC-25M	NOV. 30, 2021	BC-701M	FEB. 19, 2021
RC-28M	FEB. 8, 2019	BC-734M	FEB. 19, 2021
RC-30M	NOV. 30, 2021	BC-735M	SEP. 30, 2016
RC-39M	NOV. 30, 2021	BC-736M	JAN. 31, 2019
RC-40M	FEB. 8, 2019	BC-751M	JAN. 31, 2019
RC-45M	FEB. 19, 2021	BC-752M	FEB. 19, 2021
RC-46M	FEB. 19, 2021	BC-755M	JAN. 31, 2019
RC-58M	AUG. 4, 2017	BC-766M	JAN. 31, 2019
RC-60M	JUN. 1, 2010	BC-775M	SEP. 30, 2016
RC-61M	JUN. 1, 2010	BC-788M	JAN. 31, 2019
RC-64M	FEB. 19, 2021		
RC-67M	FEB. 19, 2021		
RC-70M	FEB. 8, 2019		
RC-72M	FEB. 8, 2019		
RC-73M	FEB. 8, 2019		



LOCATION MAP



LEGEND

- PROJECT AREA
- STATE ROAD
- LOCAL ROAD
- CITY LINE
- RAILROAD
- RIVER

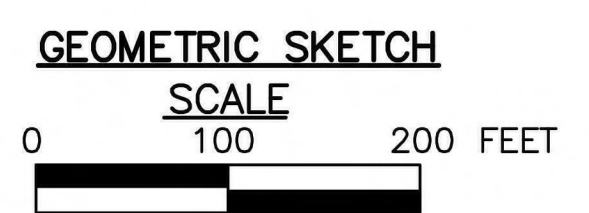
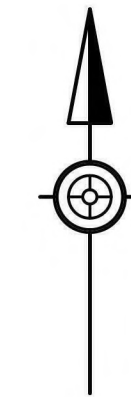
EARTHWORK SUMMARY ENTIRE PROJECT

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 YDS.* OF COMPLETED EMBANKMENT	CUBIC YDS. OF BORROW EXCAVATION	CUBIC YDS. OF SELECT BORROW	CUBIC YDS. OF WASTE
CLASS 1	CLASS 1A	CLASS 1B	CLASS 2	CLASS 3**	CLASS 4				
260	-	90	1916	3477	1076	1017	-	2248	9533

* INCLUDES ALL BORROW ITEMS
** 3477 CY PART OF LUMP SUM STRUCTURE ITEM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	4 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



FOR COORDINATES & REFERENCE CIRCLES SEE SHEET 5



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	5 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

SUMMARY OF PROJECT COORDINATES
 BASED ON PA STATE PLANE COORDINATE SYSTEM
 SOUTH ZONE - NAD83 (2011)

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
SR 0183 SURVEY & CONSTR	0+00.00	POT	372349.4071	2473579.8162	N 24°38'29" W
	7+65.52	POT	373045.2114	2473260.6433	N 24°38'29" W
	16+00.00	POT	373803.7028	2472912.7151	

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
WEST BUTTWOOD ST SURVEY & CONSTR	50+00.00	POT	372266.3764	2473397.8655	N 65°21'31" E
	52+00.00	POT	372349.4071	2473579.8162	N 65°21'31" E
	56+14.39	PI *	372522.5397	2473956.3076	S 89°56'29" E
	59+18.62	POT	372522.2287	2474260.5389	S 89°56'29" E
	62+00.00	POT	372521.9411	2474541.9156	

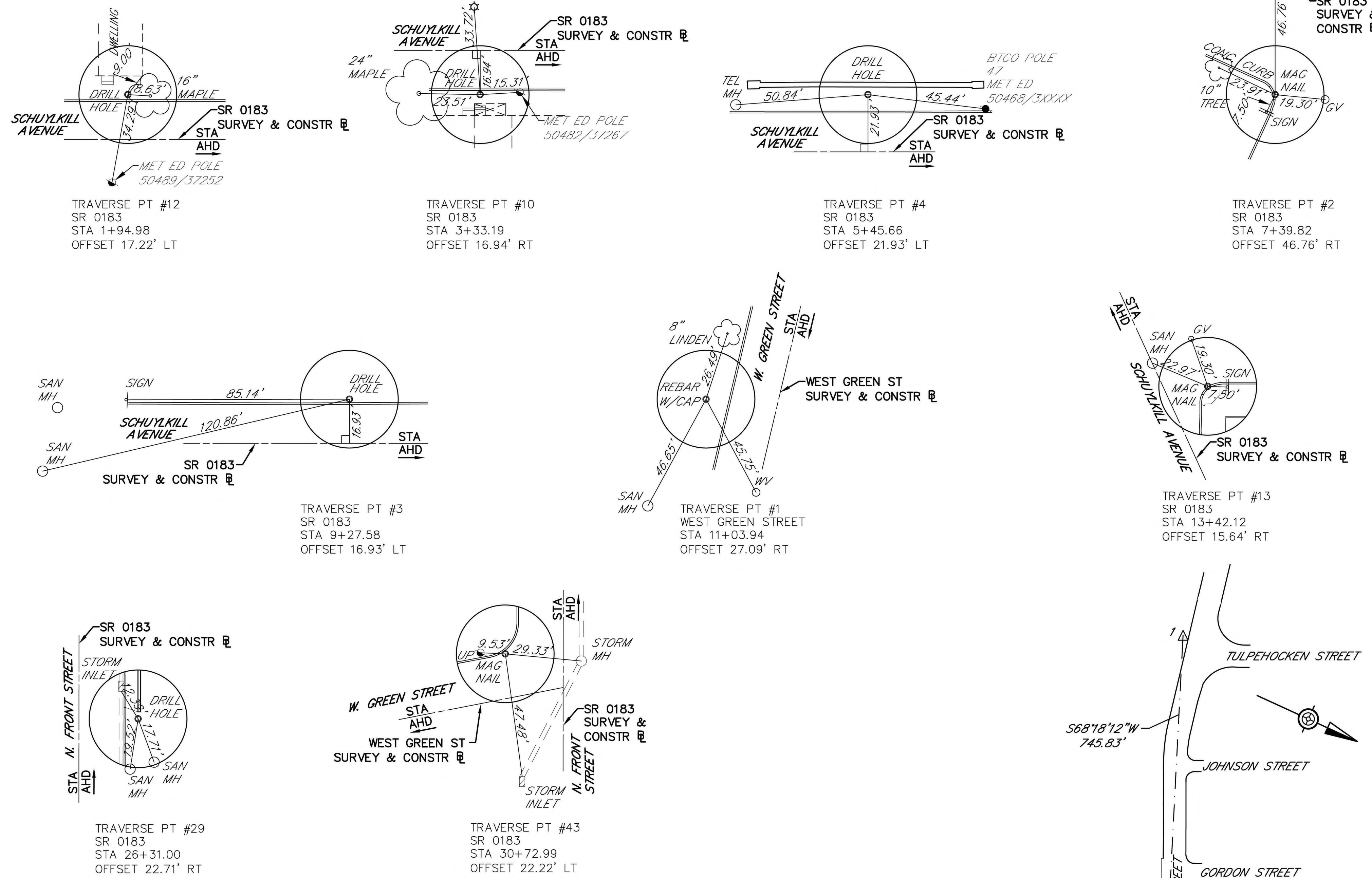
* NO CURVE

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
SR 0183 NORTH FRONT ST SURVEY & CONSTR	22+00.00	POT	372272.2289	2474260.2834	N 00°03'31" E
	24+50.00	POT	372522.2287	2474260.5389	N 00°03'31" E
	30+60.12	POT	373132.3437	2474261.1626	N 00°03'31" E
	35+27.05	POT	373599.2736	2474261.6399	N 00°03'31" E
	38+00.00	POT	373872.2280	2474261.9189	

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
WEST GREENWICH ST SURVEY & CONSTR	70+00.00	POT	373502.1458	2472831.0048	N 65°21'31" E
	72+00.00	POT	373585.5334	2473012.7918	
	72+00.00	POT	373600.5572	2473005.9002	S 89°56'29" E
	84+55.74	POT	373599.2736	2474261.6399	S 89°56'29" E
	88+00.00	POT	373598.9217	2474605.8994	

RTE.	STATION	POINT	COORDINATES		BEARING
			NORTH	EAST	
WEST GREEN ST SURVEY & CONSTR	0+00.00	POT	373132.3437	2474261.1626	S 78°57'44" W
	3+00.00	POT	373074.9074	2473966.7121	
	10+00.00	POT	372771.7329	2472513.6344	N 78°39'09" E
	12+35.91	PC	372818.1496	2472744.9317	N 78°39'09" E
	12+73.65	PI	372825.5759	2472781.9371	N 65°21'14" E
	13+11.06	PT	372841.3153	2472816.2420	N 65°21'14" E
	18+00.00	POT	373045.2114	2473260.6433	

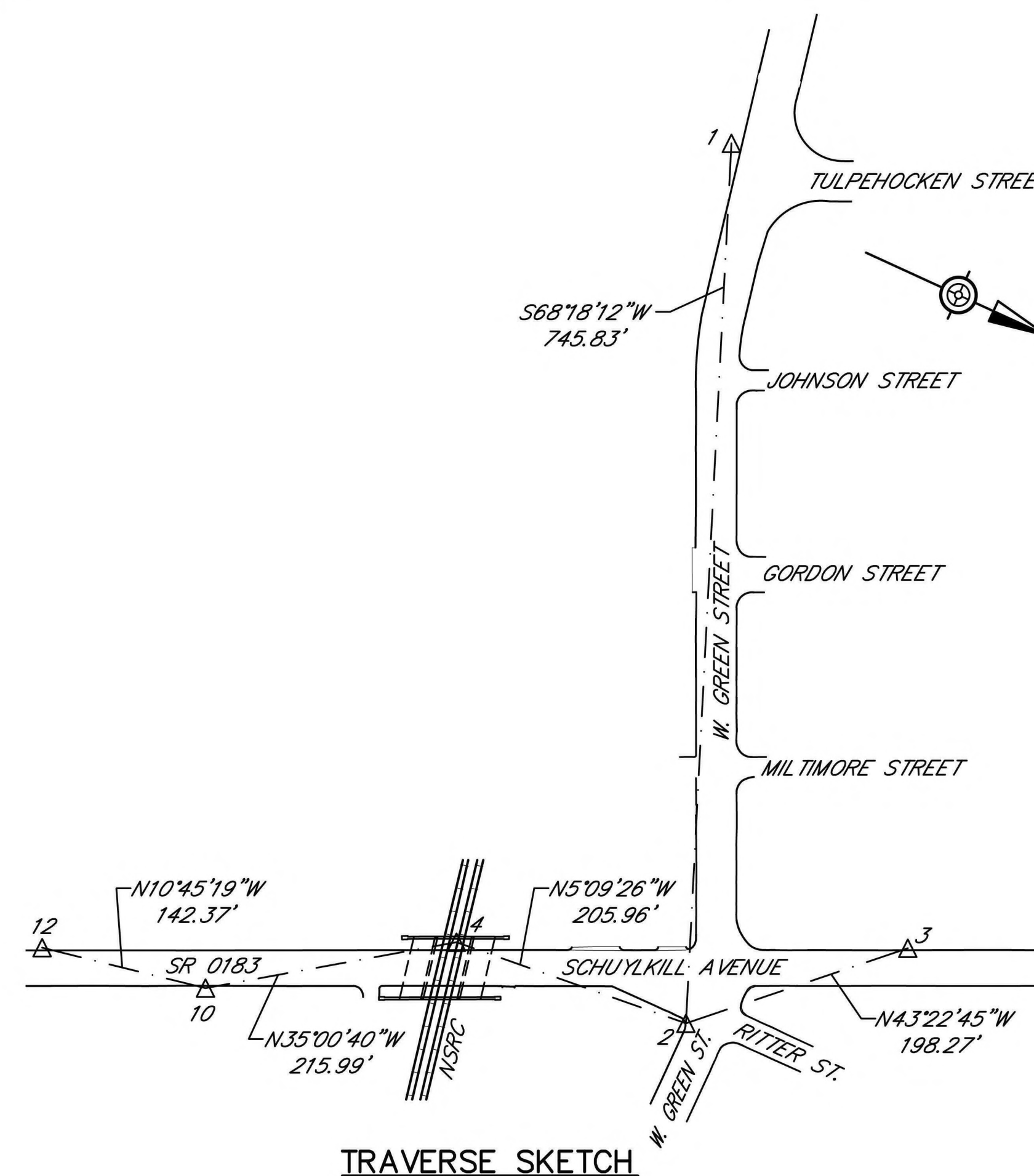
NOTE: FOUR (4) PLACE COORDINATES ARE USED FOR COMPUTATIONAL PURPOSES ONLY AND DO NOT IMPLY A PRECISION BEYOND TWO (2) DECIMAL PLACES.



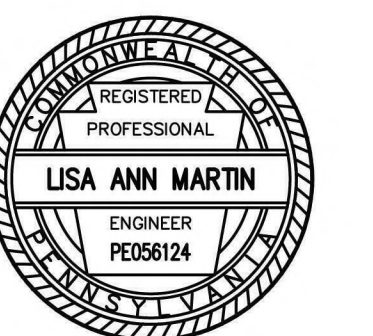
SUMMARY OF TRAVERSE CONTROL POINT COORDINATES
 BASED ON PA STATE PLANE COORDINATE SYSTEM
 SOUTH ZONE - NAD83 (2011)

POINT NO	DESCRIPTION	COORDINATES		STATION	OFFSET
		NORTH	EAST		
TP#12	DRILL HOLE	372519.4456	2473482.8675	1+94.98	17.22' LT
TP#10	DRILL HOLE	372659.3187	2473456.2982	3+33.19	16.94' RT
TP#4	DRILL HOLE	372836.2273	2473332.3745	5+45.66	21.93' LT
TP#2	MAG NAIL	373041.3493	2473313.8615	7+39.82	46.76' RT
TP#3	DRILL HOLE	373185.4588	2473177.6833	9+27.58	16.93' LT
TP#1	REBAR W/CAP	372765.6224	2472620.8714	11+03.94	27.09' RT (W. GREEN ST.)
TP#13	MAG NAIL	373575.8243	2473034.4506	13+42.12	15.64' RT (FRONT ST.)
TP#29	DRILL HOLE	372703.2095	2474283.4305	26+31.00	22.71' RT (FRONT ST.)
TP#43	MAG NAIL	373145.2394	2474238.9542	30+72.99	22.22' LT

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

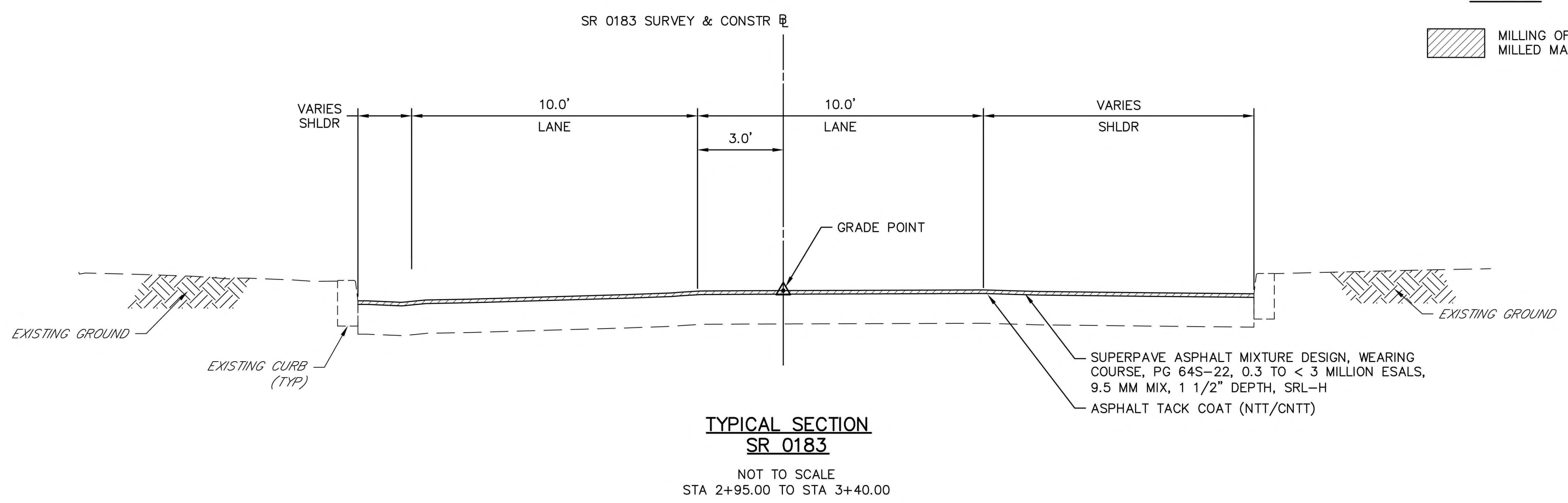
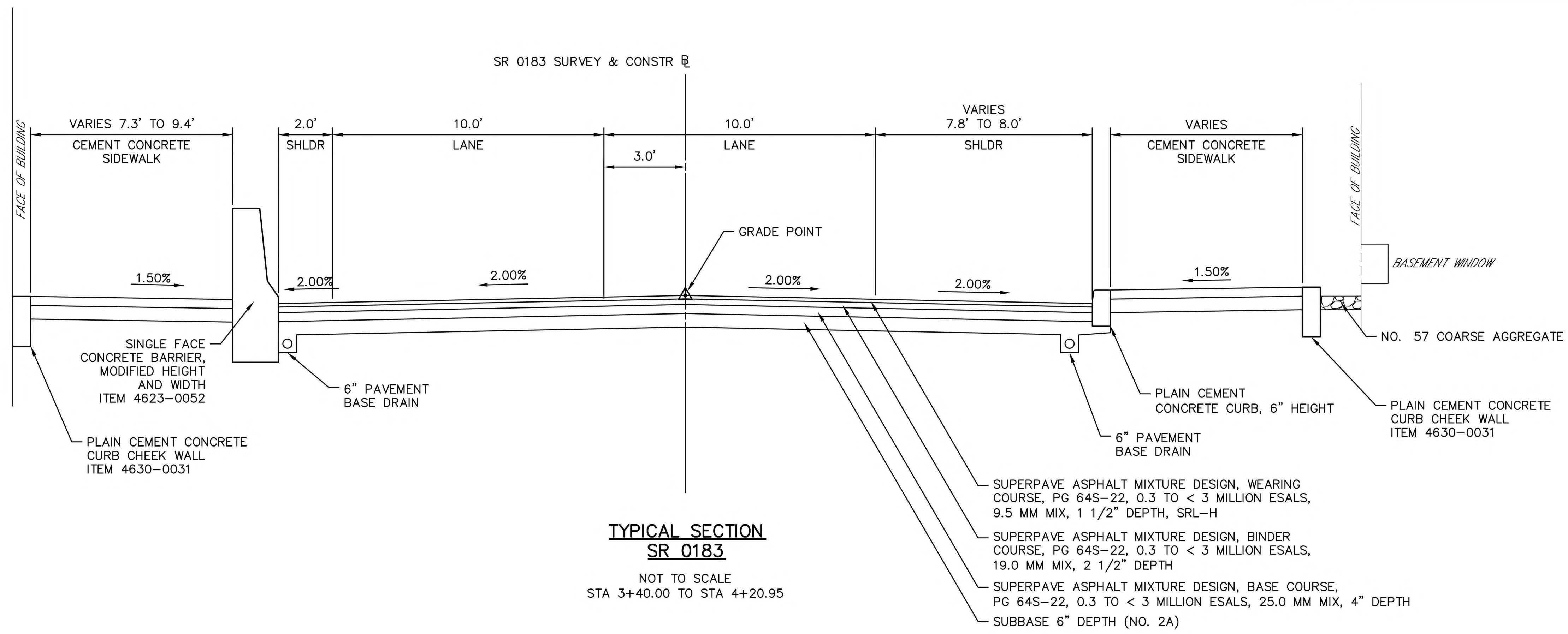


REFERENCE CIRCLES



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	6 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



LEGEND

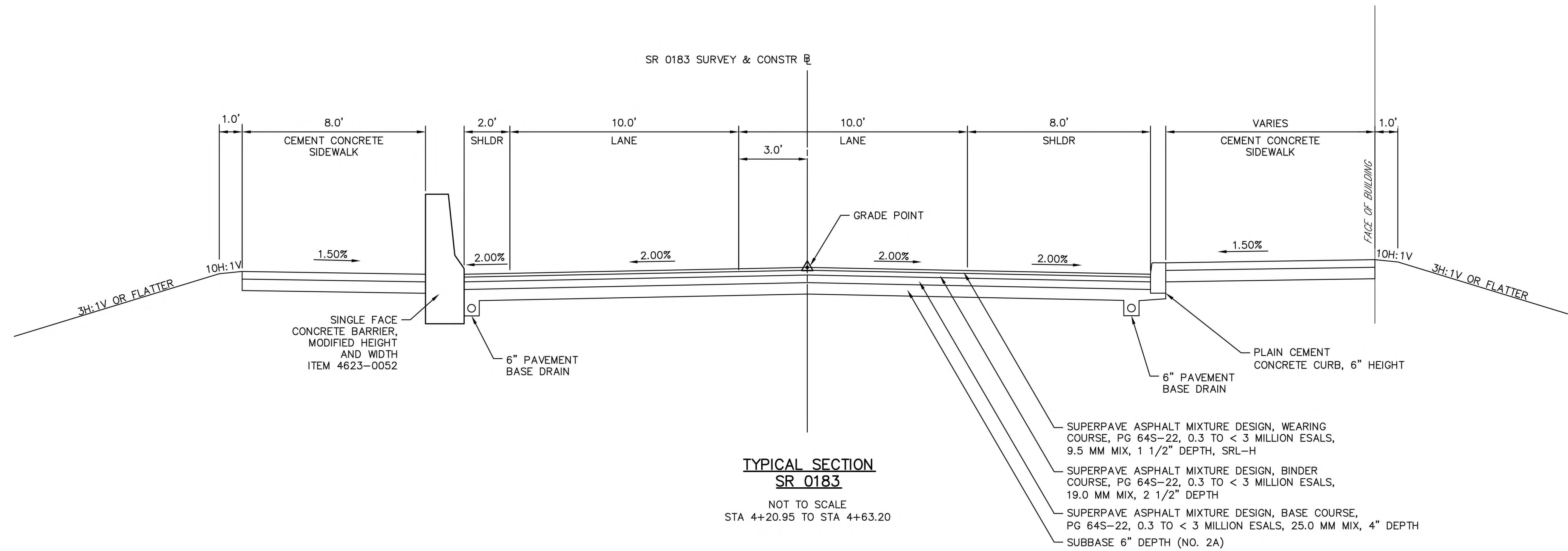
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TYPICAL SECTIONS

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5-0	BERKS	0183	05B	7 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

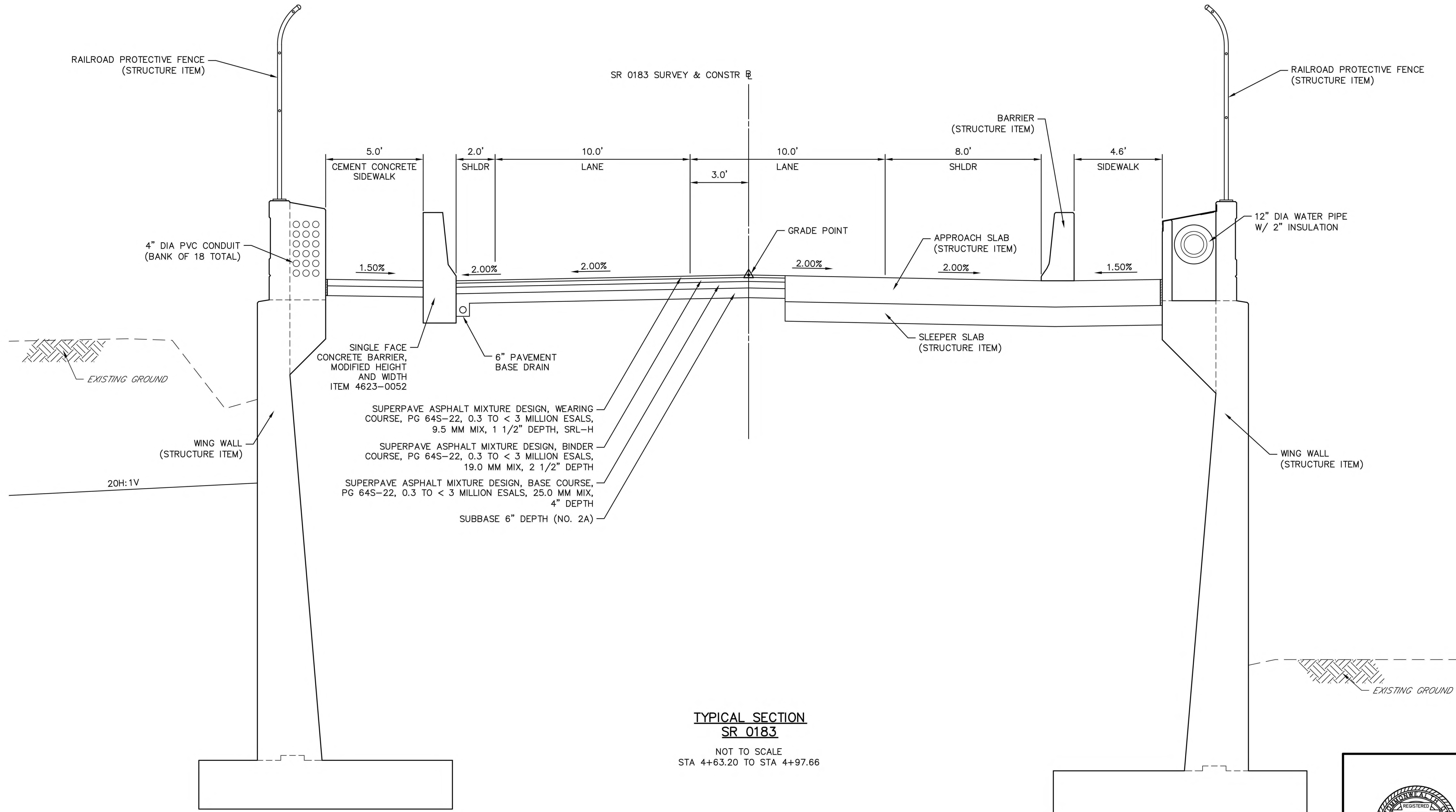


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TYPICAL SECTIONS

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	8 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



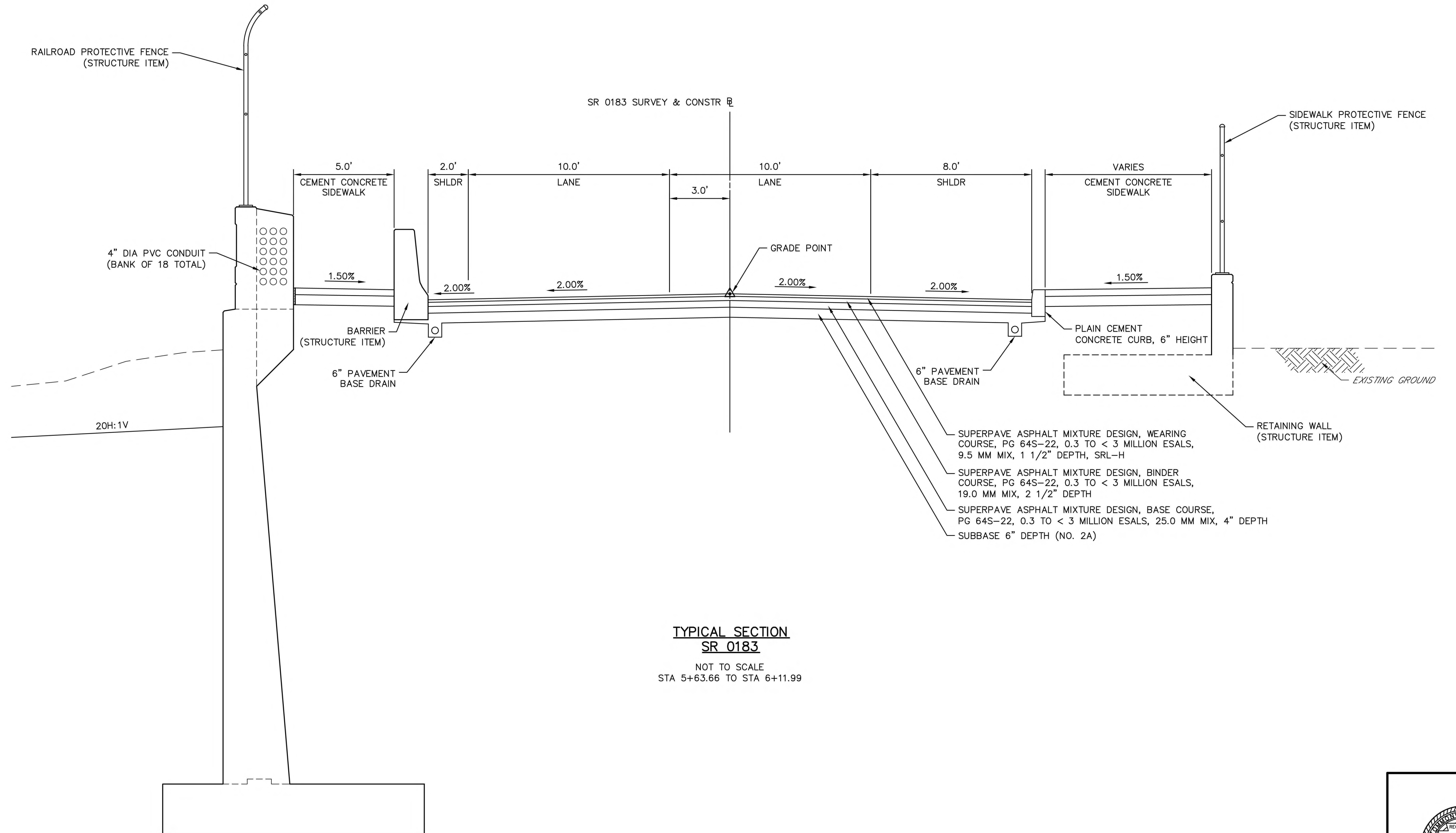
TYPICAL SECTION
SR 0183
 NOT TO SCALE
 STA 4+63.20 TO STA 4+97.66

TYPICAL SECTIONS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	9 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



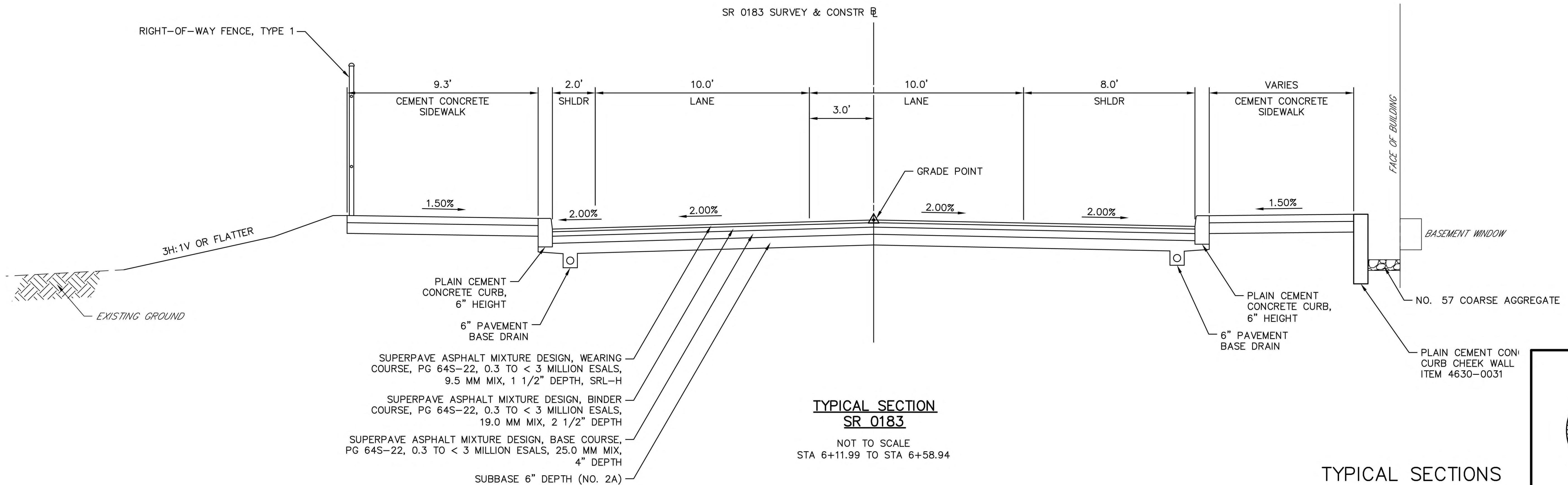
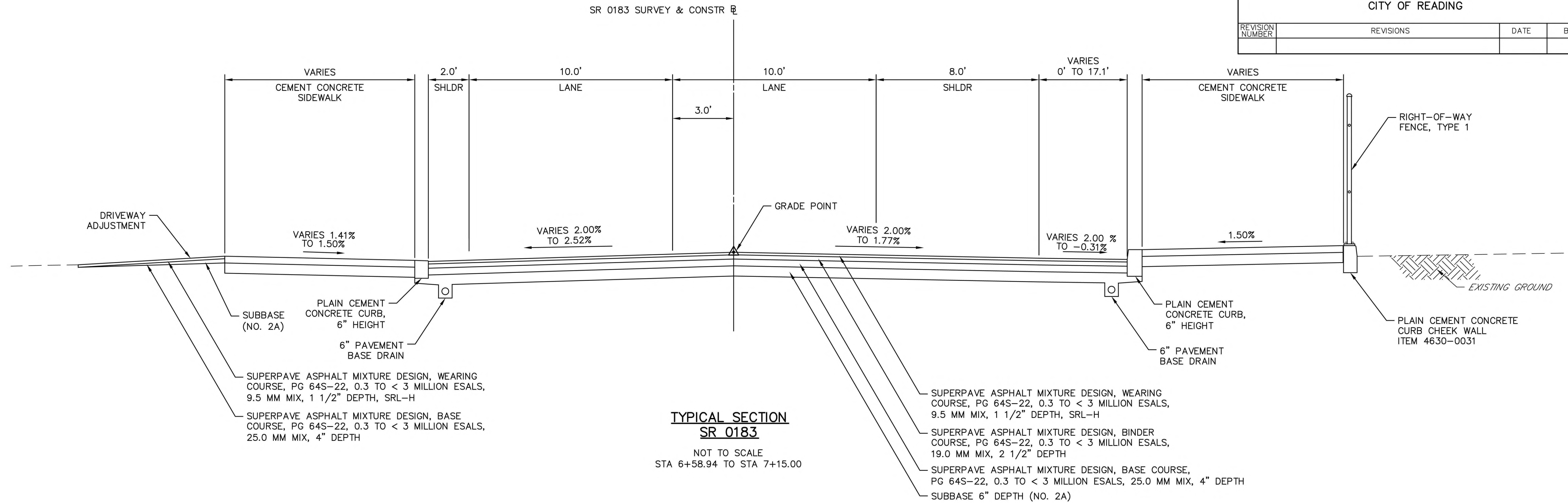
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TYPICAL SECTIONS

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	10 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

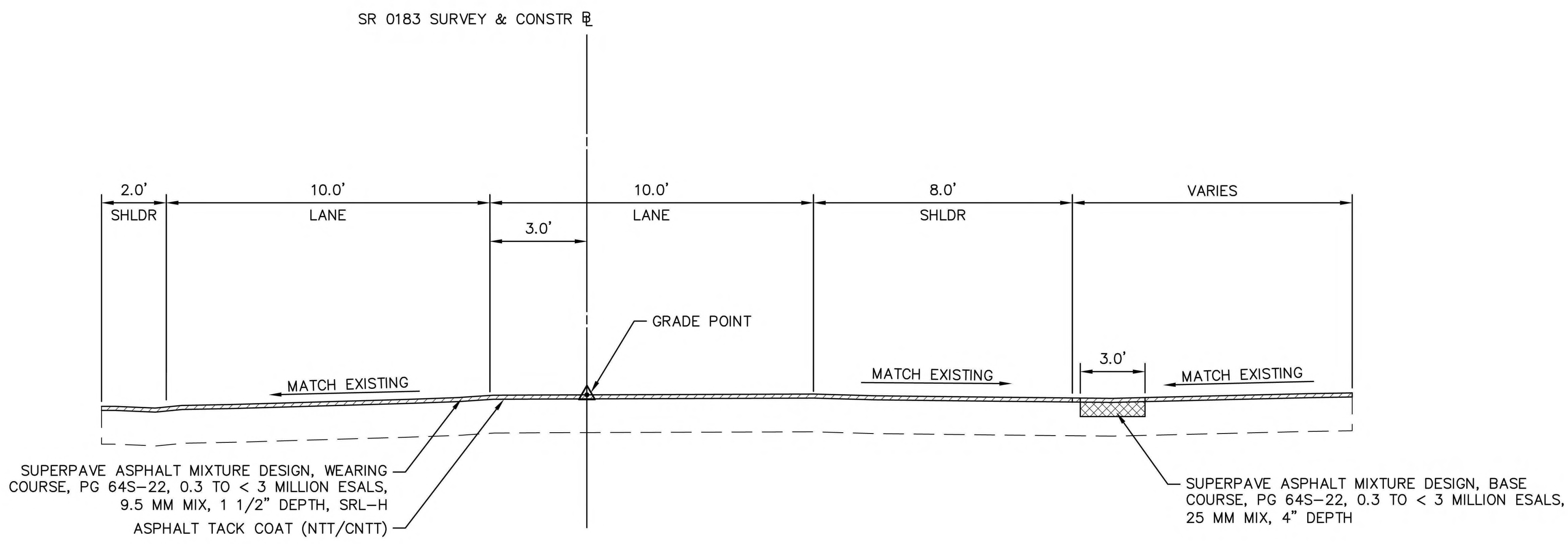


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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	11 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



**TYPICAL SECTION
SR 0183**
NOT TO SCALE
STA 7+15.00 TO STA 8+20.00

LEGEND

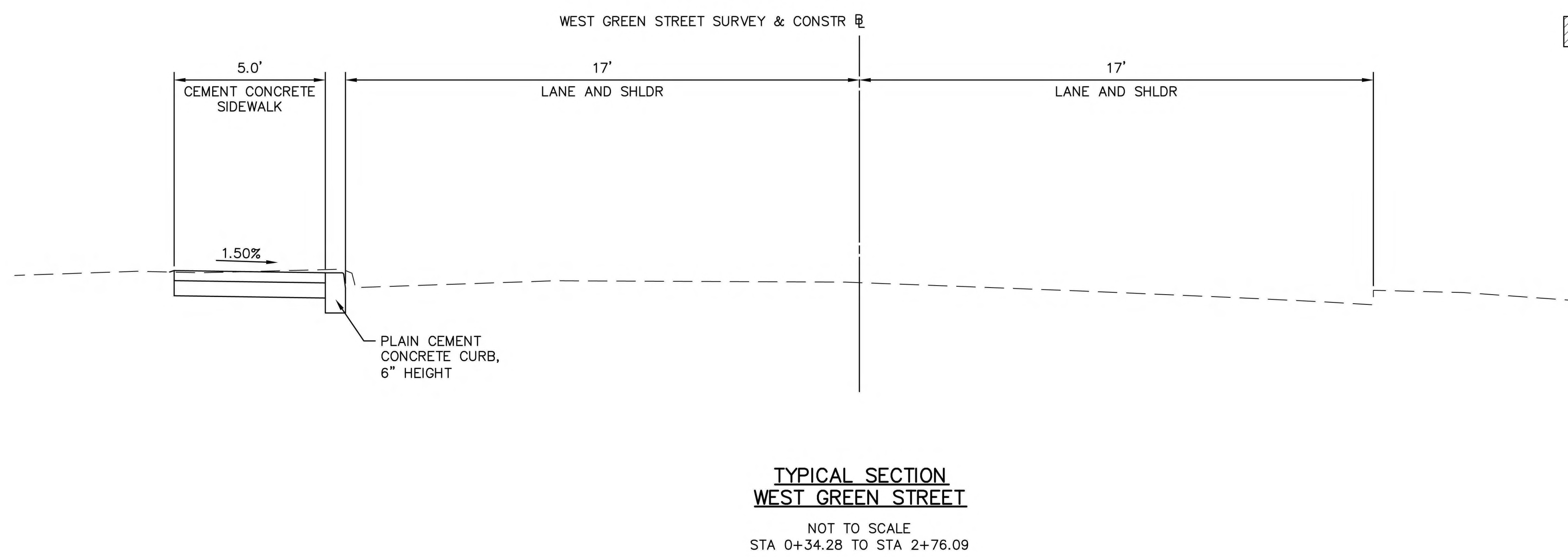
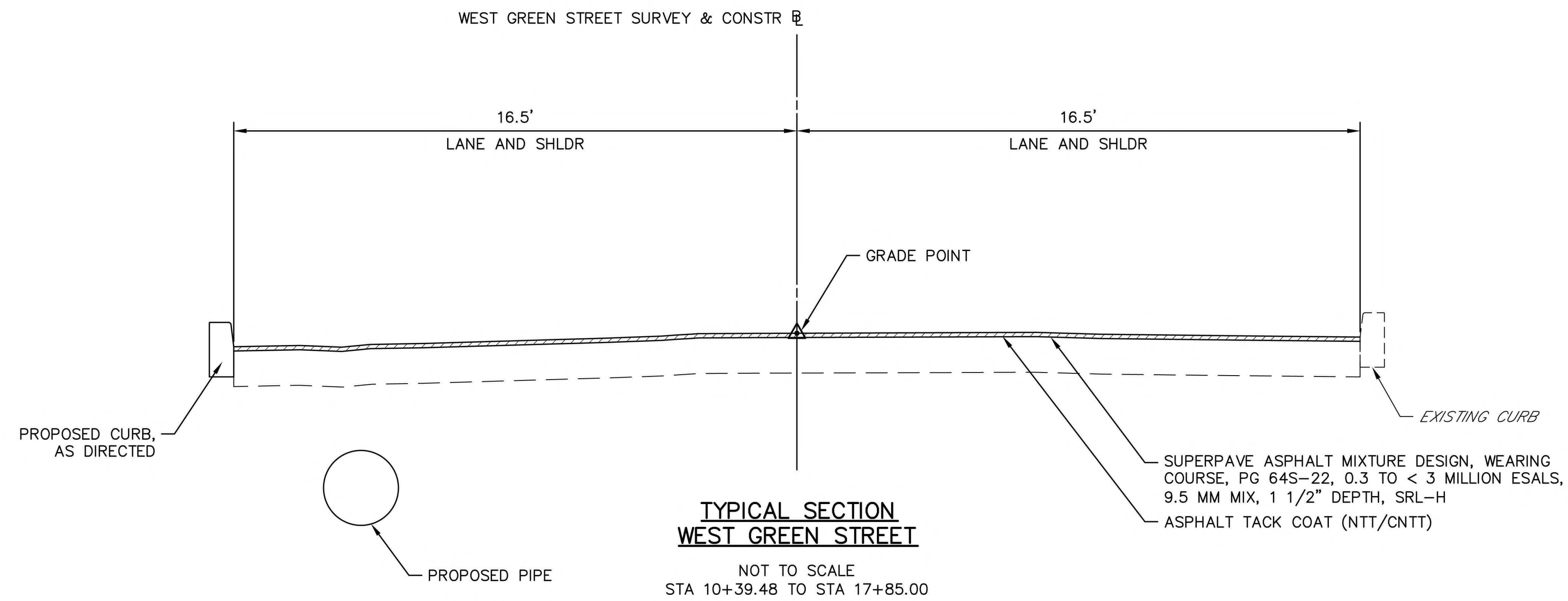
- MILLING OF BITUMINOUS PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR
- EXISTING BRICKS IN PAVEMENT TO BE REMOVED



TYPICAL SECTIONS

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	12 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



LEGEND

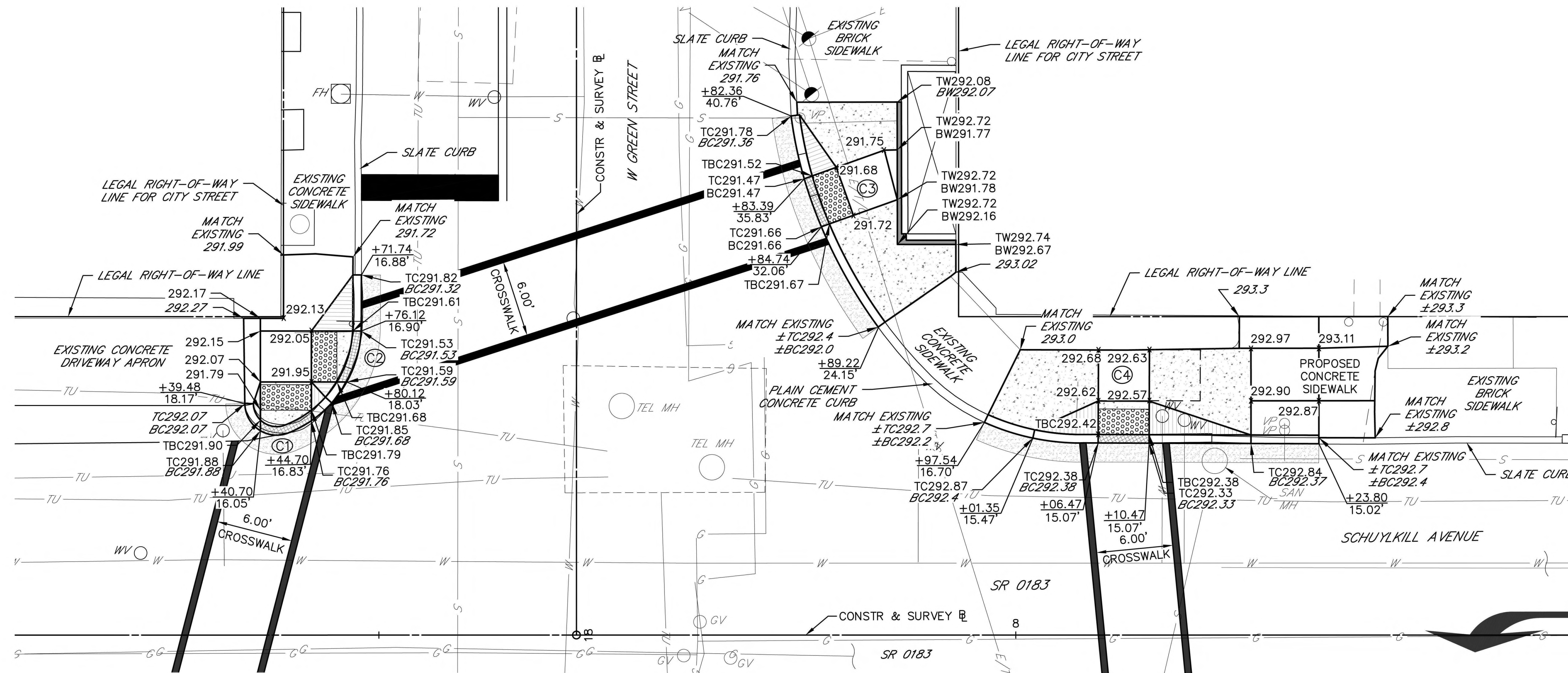
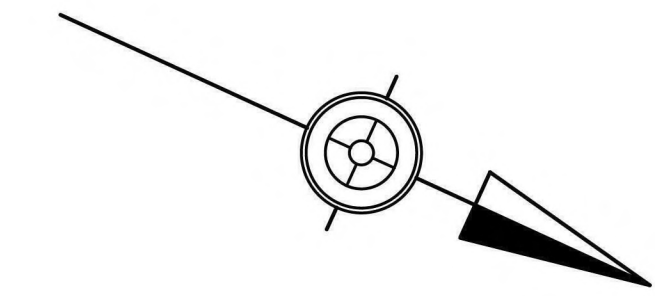
MILLING OF BITUMINOUS PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR



TYPICAL SECTIONS

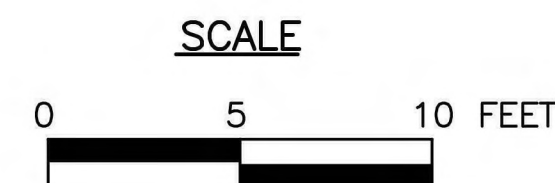
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CURB RAMP ID	RAMP TYPE	CONSTRUCTION #	RAMP @ STATION	RAMP LOCATION
C1	TYPE 1 W/ SHARED LANDING	SR 0183	7+42 LT	17
C2	TYPE 1 WITH SHARED LANDING	SR 0183	7+78 LT	19
C3	TYPE 1	SR 0183	7+84 LT	2
C4	TYPE 1	SR 0183	8+12 LT	4



NOTE:

- FULL DWS PANELS ARE TO BE USED WHEREVER POSSIBLE. IN CASES WHERE TRANSITIONAL SLOPES ACROSS THE DWS AREA PREVENT THE USE OF FULL PANELS, DWS ARE TO BE CONSTRUCTED WITH 12"x12" TILES.
- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.



LEGEND

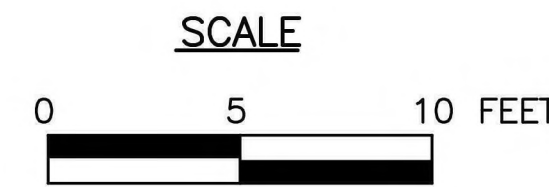
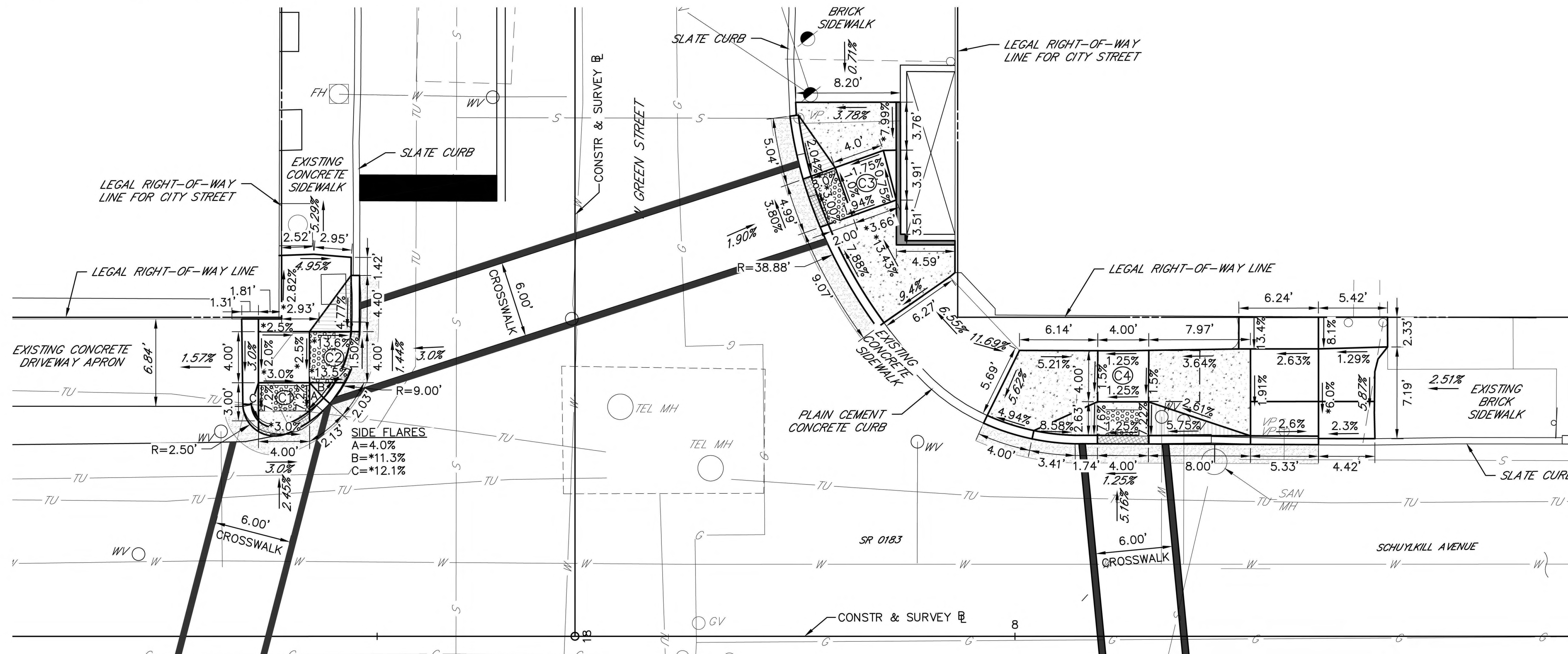
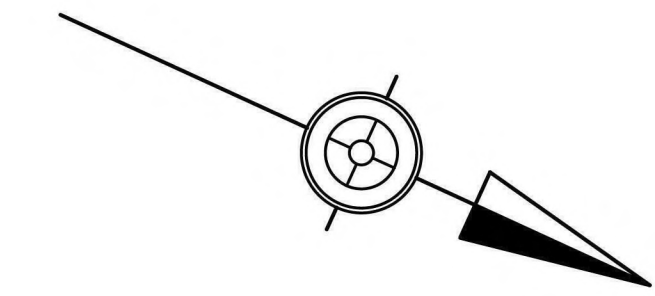
PROPOSED CURB RAMP IDENTIFIER	PROPOSED DETECTABLE WARNING SURFACE	PROPOSED PLAIN CEMENT DEPRESSED CURB
PROPOSED LANDING	PROPOSED CONCRETE RAMP	PROPOSED CHEEKWALL
PROPERTY LINE	PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)	PEDESTRIAN BUTTON
312.10 PROPOSED SPOT ELEVATION	EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW	PROPOSED SLOPE WITH FLOW ARROW
TC/BC312.10 PROPOSED TOP CURB/BOTTOM	PROPOSED DIMENSION	PROPOSED TRAFFIC SIGNAL SUPPORT TIF REQUIRED
TW/BW312.10 PROPOSED TOP CHEEKWALL	UTILITY POLE	
STORM INLET		
RAMP SIDE FLARE		
ROUNDED CONCRETE SURFACE		
PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		



SR 0183 – SCHUYLKILL AND W GREEN
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS

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CURB RAMP ID	RAMP TYPE	CONSTRUCTION #	RAMP @ STATION	RAMP LOCATION
C1	TYPE 1 W/ SHARED LANDING	SR 0183	7+42 LT	17
C2	TYPE 1 WITH SHARED LANDING	SR 0183	7+78 LT	19
C3	TYPE 1	SR 0183	7+84 LT	2
C4	TYPE 1	SR 0183	8+12 LT	4



NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

PROPOSED CURB RAMP IDENTIFIER	PROPOSED DETECTABLE WARNING SURFACE	PROPOSED PLAIN CEMENT DEPRESSED CURB
PROPOSED LANDING	PROPOSED CONCRETE RAMP	PROPOSED CHEEKWALL
PROPERTY LINE	PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)	PEDESTRIAN BUTTON
312.10 PROPOSED SPOT ELEVATION	EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW	PROPOSED SLOPE WITH FLOW ARROW
TC/BC312.10 PROPOSED TOP CURB/BOTTOM	PROPOSED DIMENSION	PROPOSED TRAFFIC SIGNAL SUPPORT
TW/BW312.10 PROPOSED TOP CHEEKWALL	TIF REQUIRED	UTILITY POLE
STORM INLET		
RAMP SIDE FLARE		
ROUNDED CONCRETE SURFACE		
PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		

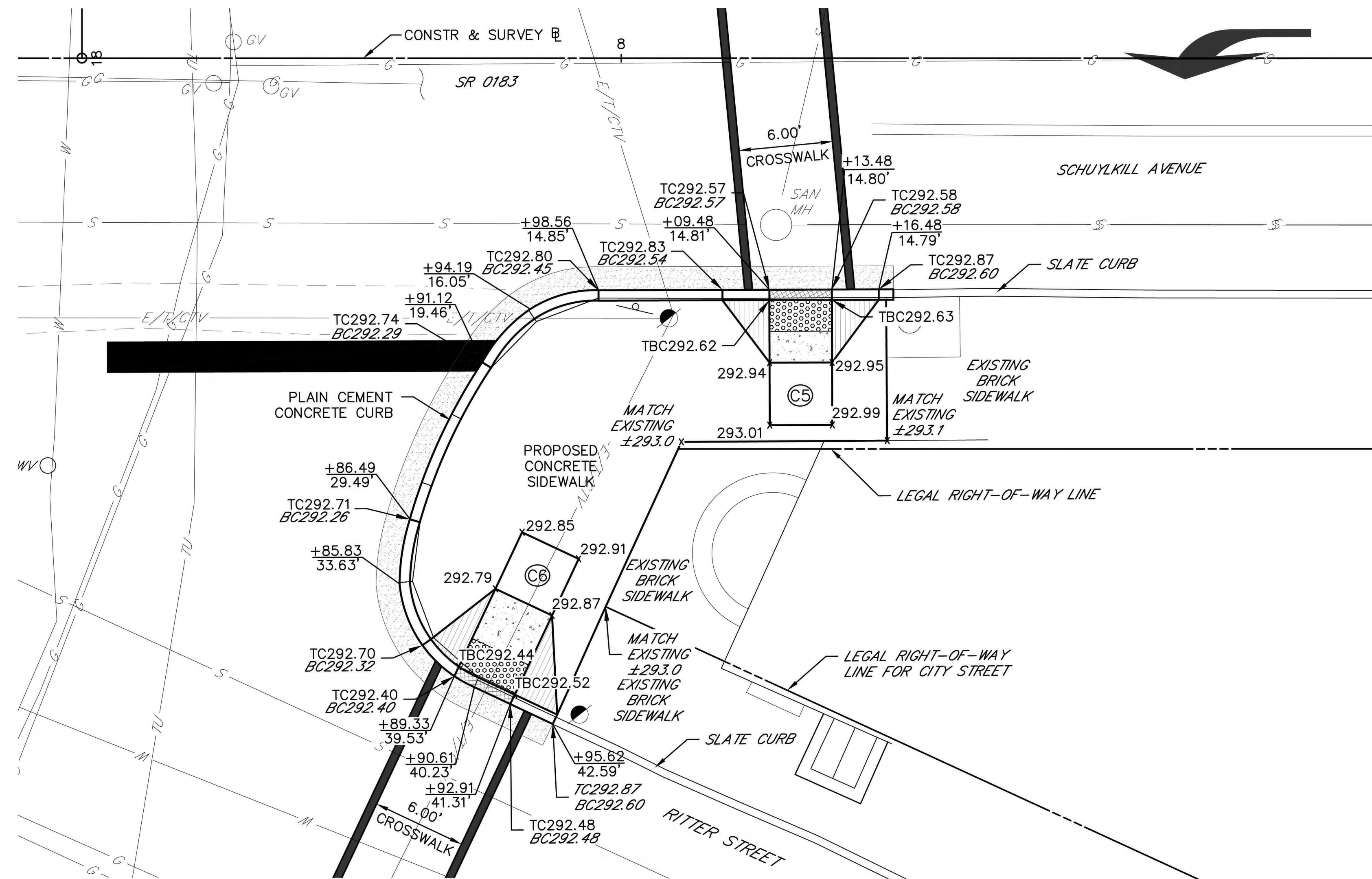


SR 0183 – SCHUYLKILL AND W GREEN
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS

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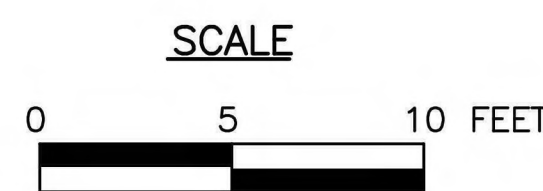
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	15 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP STATION	RAMP LOCATION
C5	TYPE 1	SR 0183	8+11 RT	7
C6	TYPE 1	SR 0183	7+91 RT	4



NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.



LEGEND

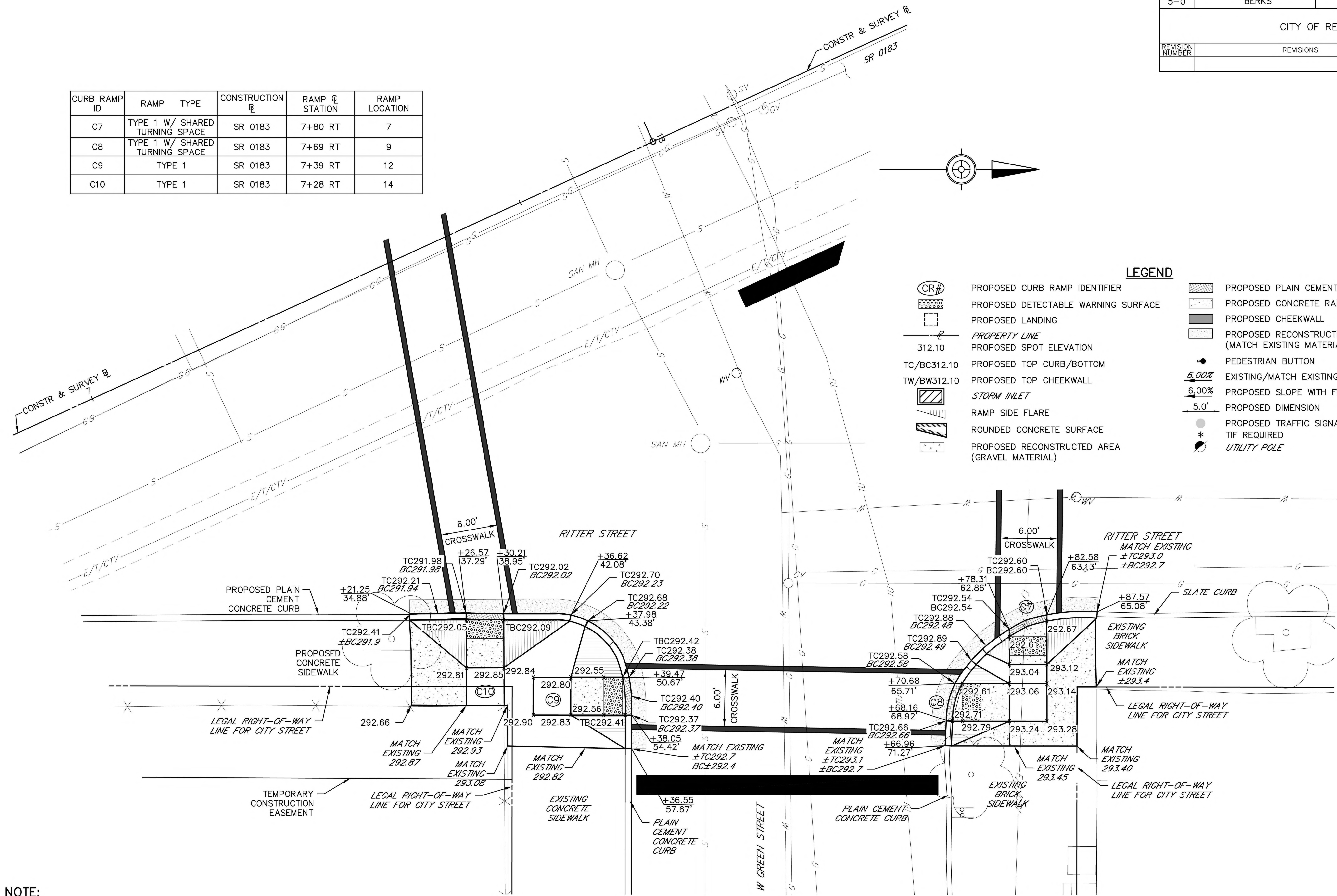
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	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE PROPOSED SPOT ELEVATION		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		PEDESTRIAN BUTTON
TW/BW312.10	PROPOSED TOP CHEEKWALL		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED SLOPE WITH FLOW ARROW
	RAMP SIDE FLARE		PROPOSED DIMENSION
	ROUNDED CONCRETE SURFACE		PROPOSED TRAFFIC SIGNAL SUPPORT
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		TIF REQUIRED
			UTILITY POLE

SR 0183 – SCHUYLKILL, W GREEN AND RITTER
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP C STATION	RAMP LOCATION
C7	TYPE 1 W/ SHARED TURNING SPACE	SR 0183	7+80 RT	7
C8	TYPE 1 W/ SHARED TURNING SPACE	SR 0183	7+69 RT	9
C9	TYPE 1	SR 0183	7+39 RT	12
C10	TYPE 1	SR 0183	7+28 RT	14

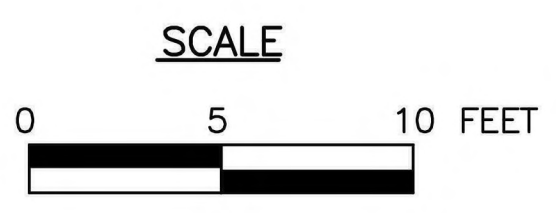


LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

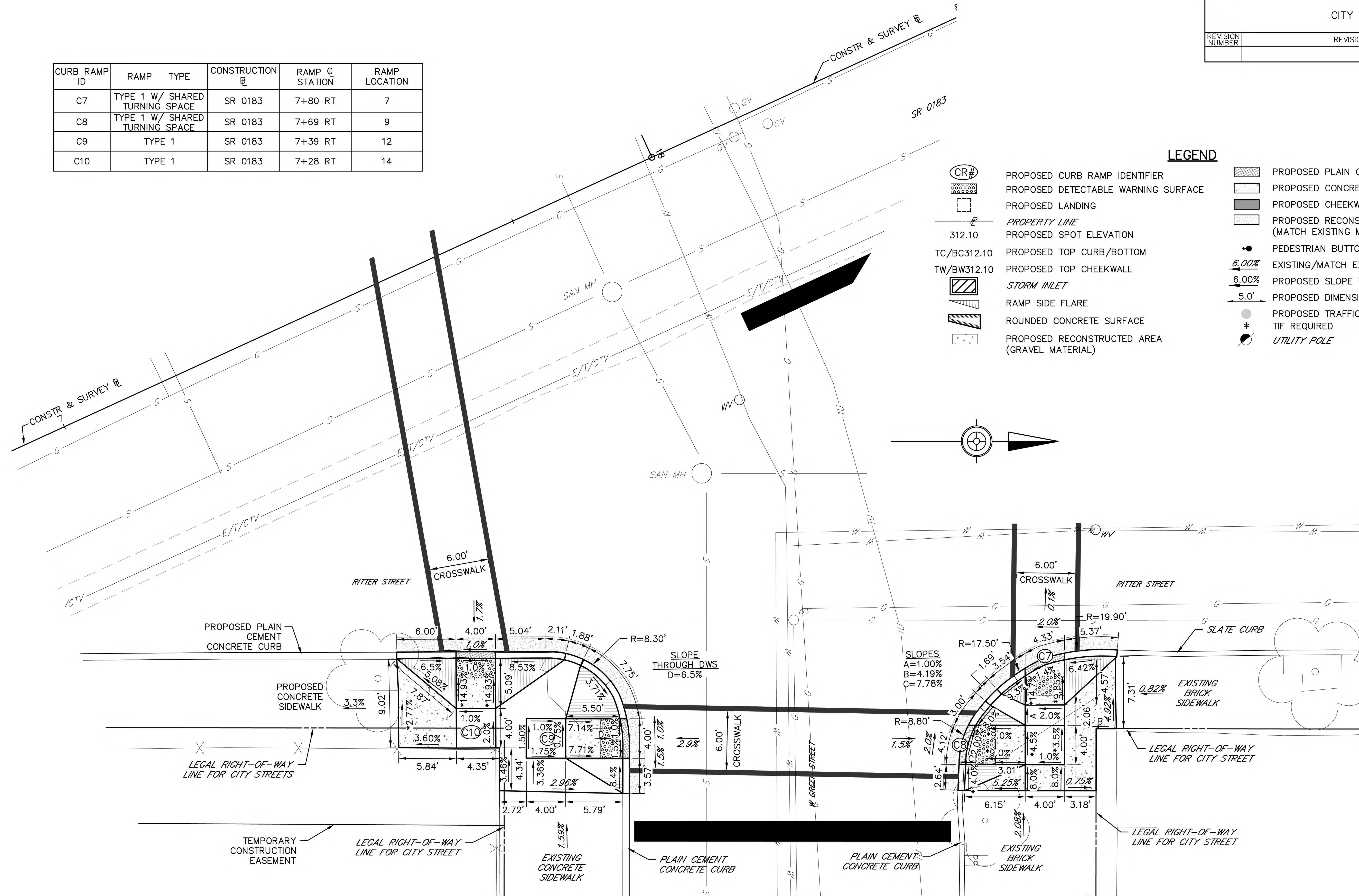


**SR 0183 – W GREEN AND RITTER
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS**



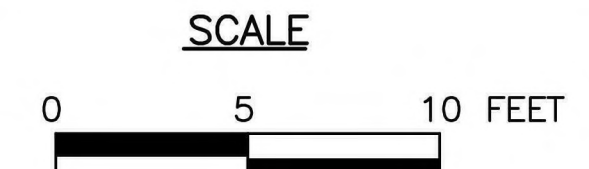
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CURB RAMP ID	RAMP TYPE	CONSTRUCTION #	RAMP C STATION	RAMP LOCATION
C7	TYPE 1 W/ SHARED TURNING SPACE	SR 0183	7+80 RT	7
C8	TYPE 1 W/ SHARED TURNING SPACE	SR 0183	7+69 RT	9
C9	TYPE 1	SR 0183	7+39 RT	12
C10	TYPE 1	SR 0183	7+28 RT	14



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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

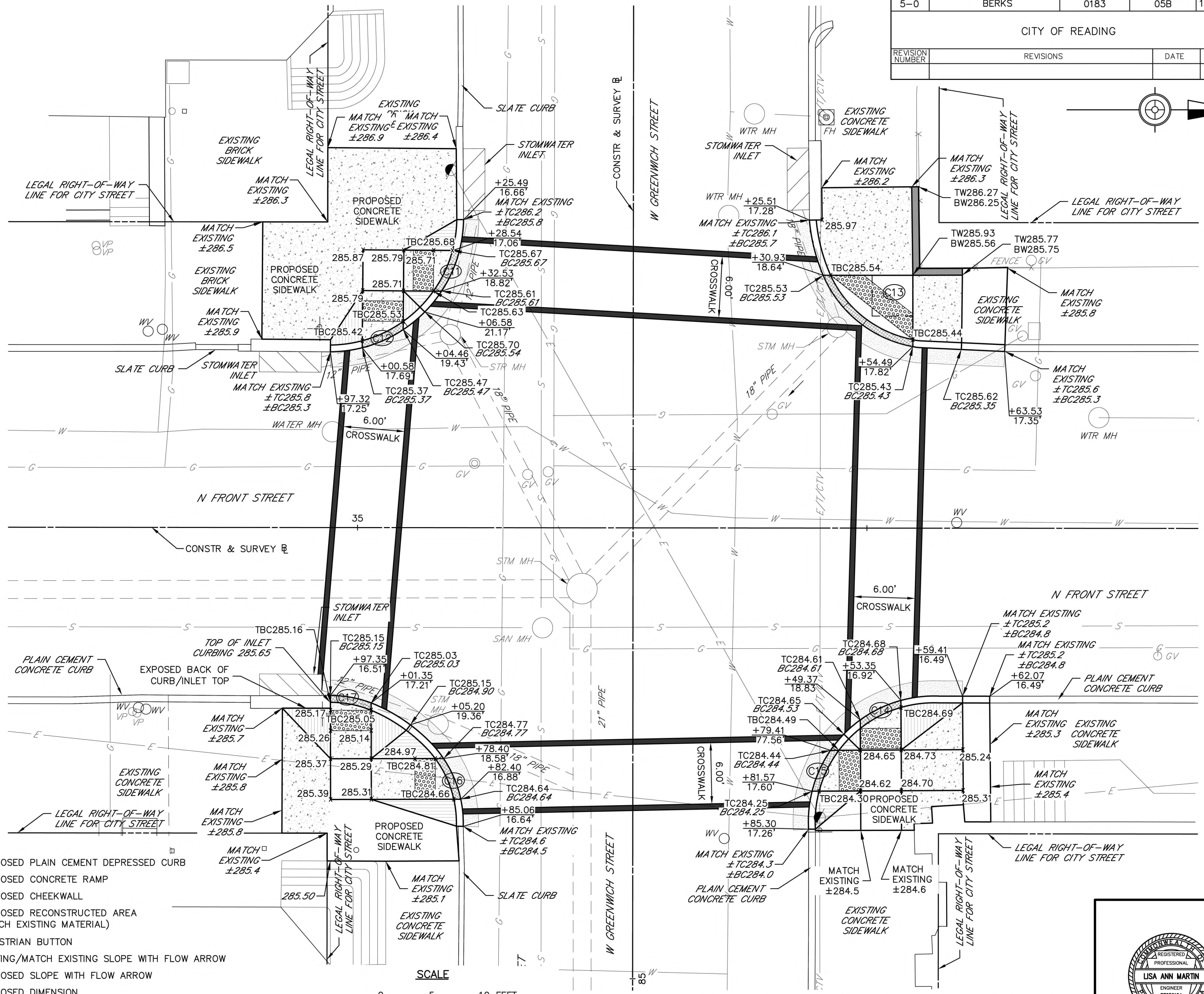


**SR 0183 – W GREEN AND RITTER
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS**



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CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP @ STATION	RAMP LOCATION
C11	TYPE 1 WITH SHARED TURNING SPACE	W. GREENWICH ST	84+30 RT	19
C12	TYPE 1 WITH SHARED TURNING SPACE	N. FRONT ST	35+02 LT	17
C13	TYPE 1A	N. FRONT ST	35+51 LT	3
C14	TYPE 1 WITH SHARED TURNING SPACE	N. FRONT ST	35+51 RT	7
C15	TYPE 1 WITH SHARED TURNING SPACE	W. GREENWICH ST	84+80 LT	9
C16	TYPE 1 WITH SHARED TURNING SPACE	W. GREENWICH ST	84+80 RT	12
C17	TYPE 1 WITH SHARED TURNING SPACE	N. FRONT ST	34+99 RT	14

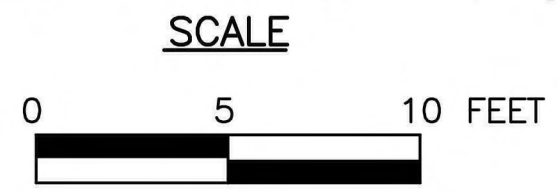


NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE



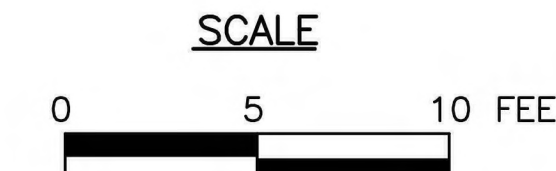
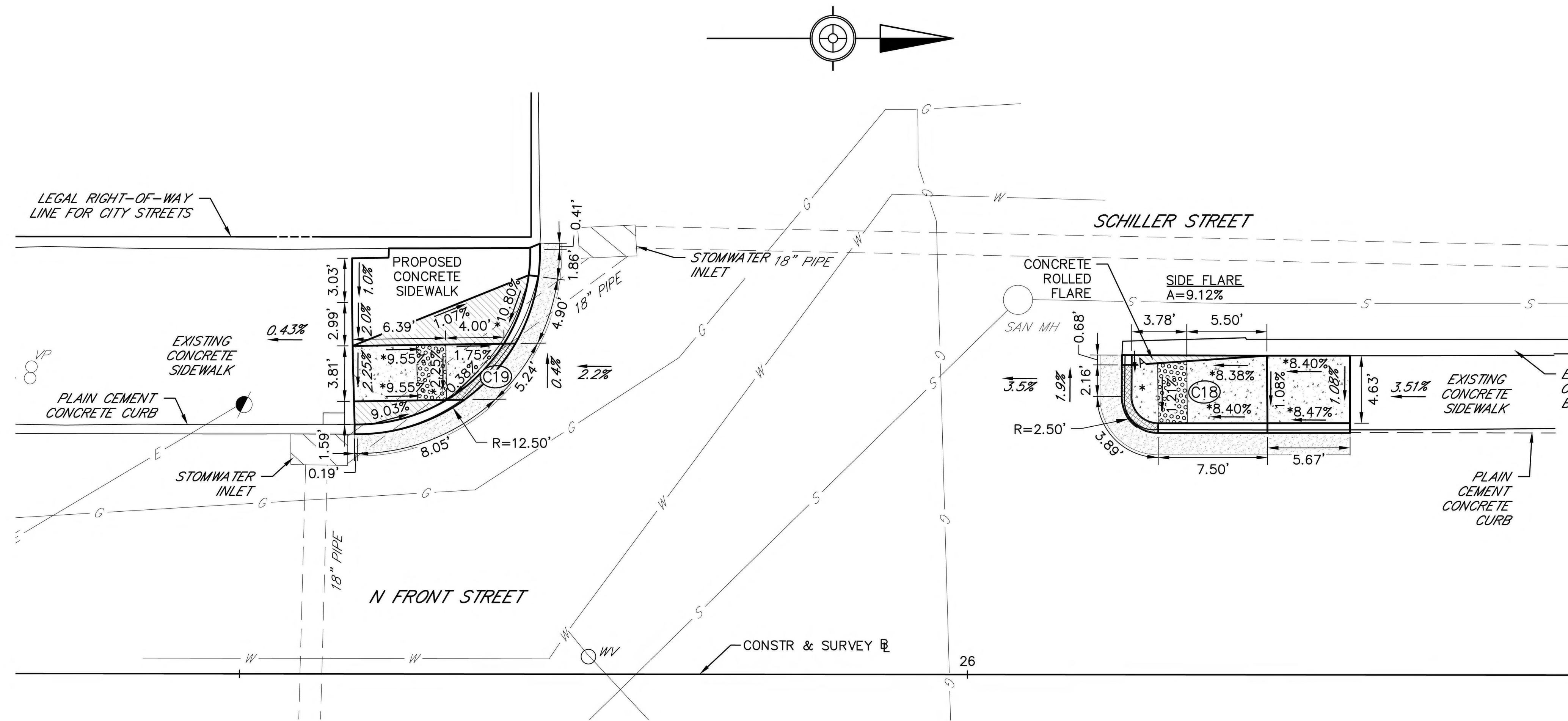
SR 0183 – N FRONT AND W GREENWICH CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	22 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP STATION	RAMP LOCATION
C18	TYPE 4A PARALLEL	N. FRONT ST	26+10 LT	2
C19	TYPE 4A PARALLEL	N. FRONT ST	25+84 LT	19



NOTE:

- FULL DWS PANELS ARE TO BE USED WHEREVER POSSIBLE. IN CASES WHERE TRANSITIONAL SLOPES ACROSS THE DWS AREA PREVENT THE USE OF FULL PANELS, DWS ARE TO BE CONSTRUCTED WITH 12"X12" TILES.
- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

PROPOSED CURB RAMP IDENTIFIER	PROPOSED DETECTABLE WARNING SURFACE	PROPOSED PLAIN CEMENT DEPRESSED CURB
PROPOSED LANDING	PROPOSED CONCRETE RAMP	PROPOSED CHEEKWALL
<i>PROPERTY LINE</i>	PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)	PEDESTRIAN BUTTON
312.10 PROPOSED SPOT ELEVATION	<i>6.00%</i> EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW	<i>6.00%</i> PROPOSED SLOPE WITH FLOW ARROW
TC/BC312.10 PROPOSED TOP CURB/BOTTOM	<i>5.0'</i> PROPOSED DIMENSION	PROPOSED TRAFFIC SIGNAL SUPPORT
TW/BW312.10 PROPOSED TOP CHEEKWALL	<i>*</i> TIF REQUIRED	<i>U</i> UTILITY POLE
<i>STORM INLET</i>		
RAMP SIDE FLARE		
ROUNDED CONCRETE SURFACE		
PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		

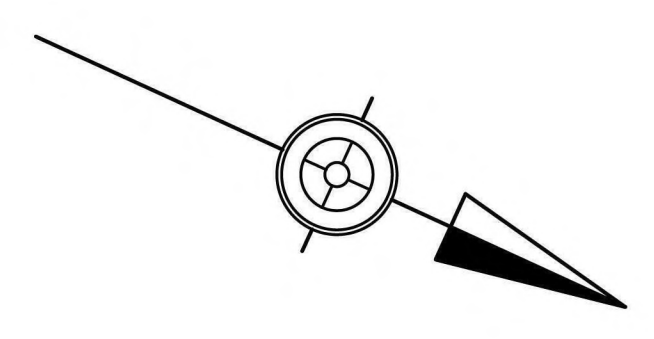
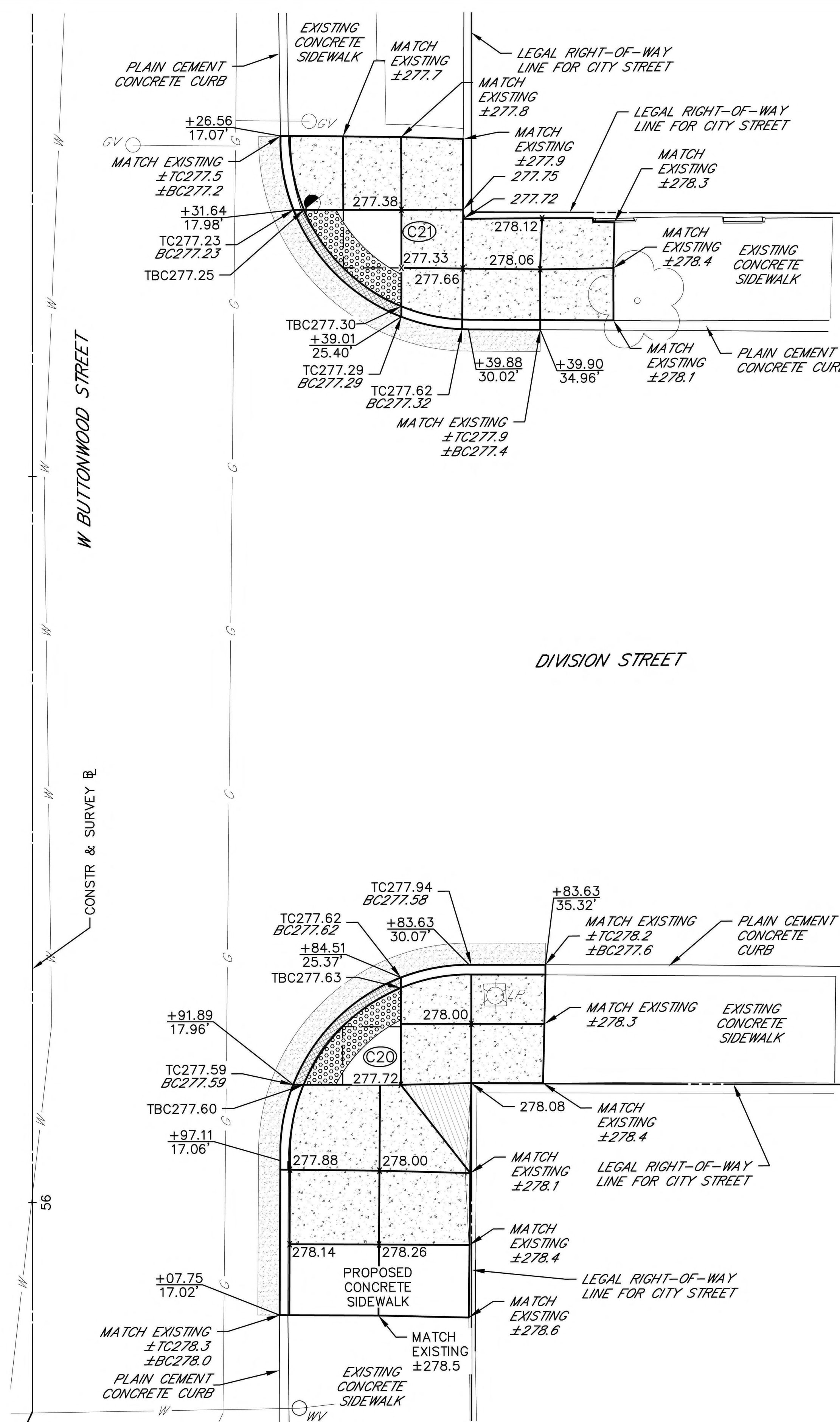
SR 0183 – N FRONT AND SCHILLER
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	23 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

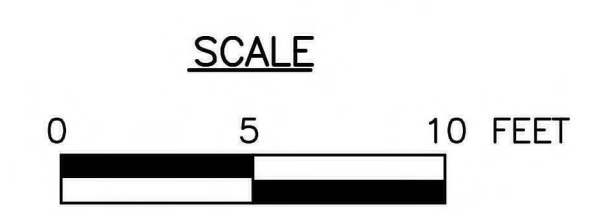
CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP @ STATION	RAMP LOCATION
C20	TYPE 1A	W. BUTTONWOOD ST	55+88 LT	8
C21	TYPE 1A	W. BUTTONWOOD ST	55+35 LT	3



- NOTE:**
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 - ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE



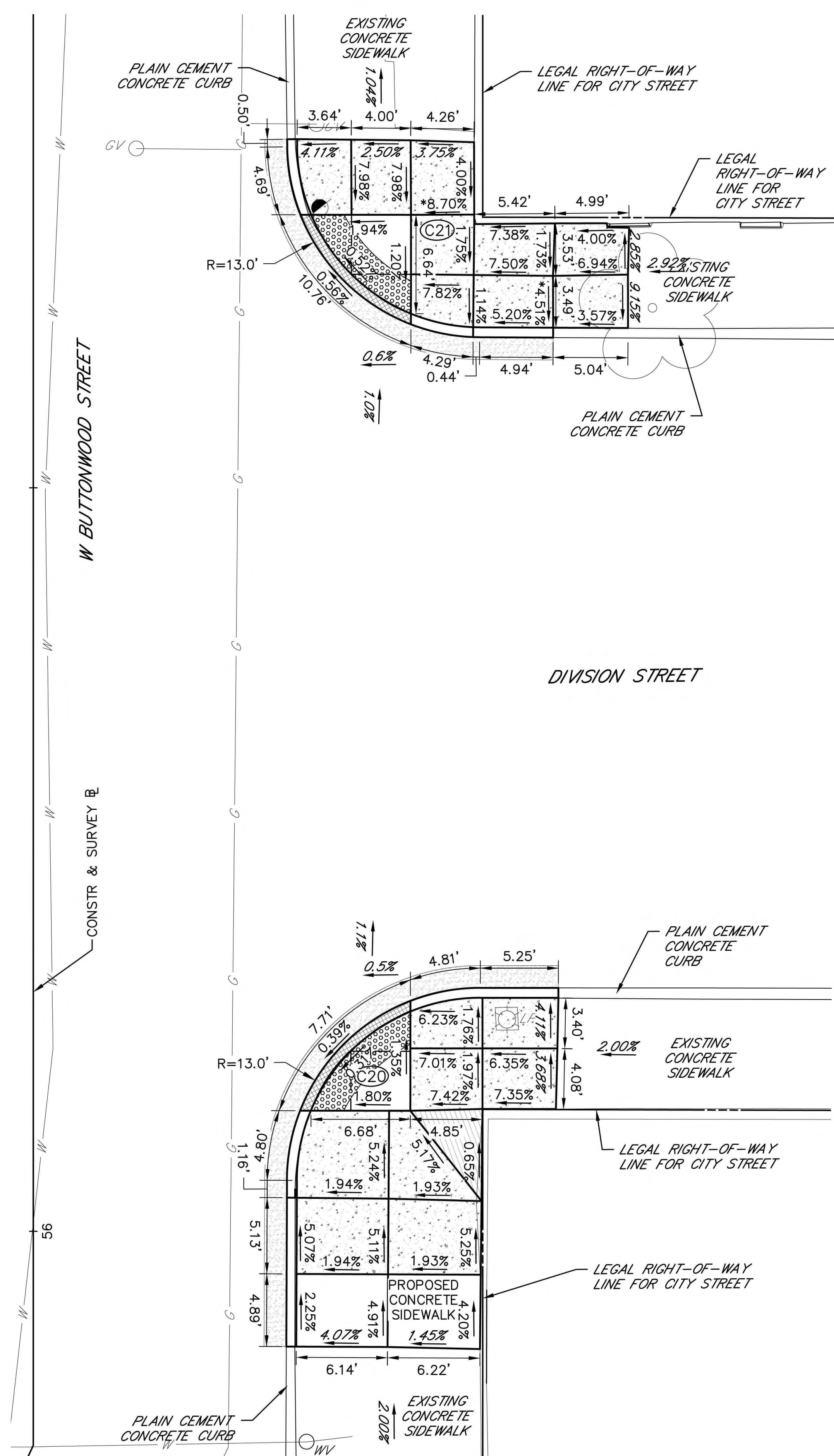
SR 0183 – W. BUTTONWOOD AND DIVISION CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	24 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

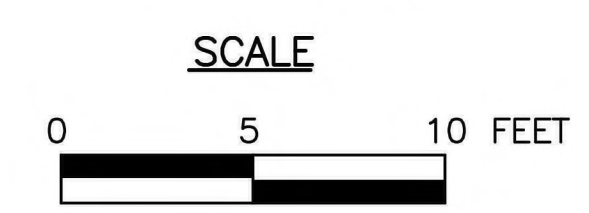
CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP C STATION	RAMP LOCATION
C20	TYPE 1A	W. BUTTONWOOD ST	55+88 LT	8
C21	TYPE 1A	W. BUTTONWOOD ST	55+35 LT	3



- NOTE:**
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 - ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE



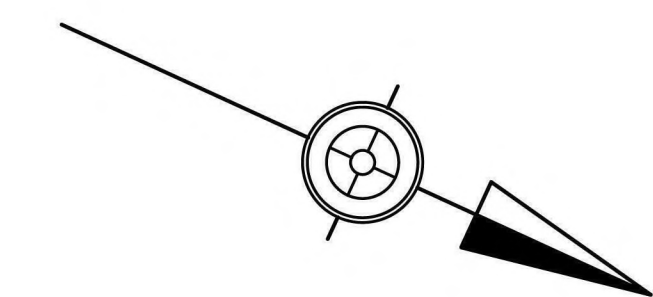
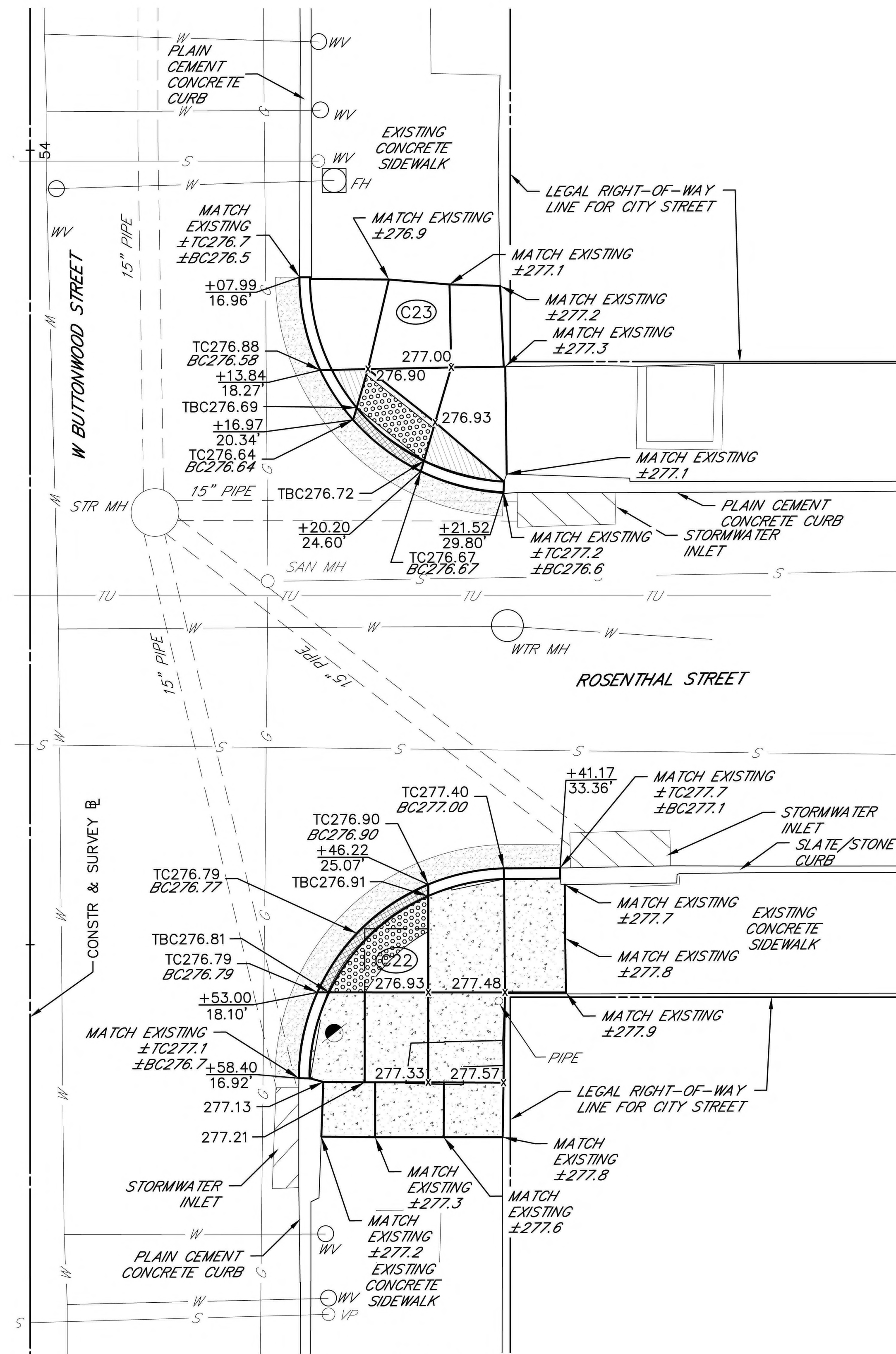
SR 0183 – W. BUTTONWOOD AND DIVISION CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	25 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP @ STATION	RAMP LOCATION
C22	TYPE 1A	W. BUTTONWOOD ST	54+89 LT	8
C23	TYPE 1	W. BUTTONWOOD ST	54+22 LT	4



NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, Slope, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED CONCRETE RAMP
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CHEEKWALL
	PROPOSED LANDING		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
	PROPERTY LINE		PEDESTRIAN BUTTON
312.10	PROPOSED SPOT ELEVATION		EXISTING/MATCH EXISTING Slope WITH FLOW Arrow
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		PROPOSED Slope WITH FLOW Arrow
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED DIMENSION
	STORM INLET		PROPOSED TRAFFIC SIGNAL SUPPORT
	RAMP SIDE FLARE		TIF REQUIRED
	ROUNDED CONCRETE SURFACE		UTILITY POLE
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		

SCALE



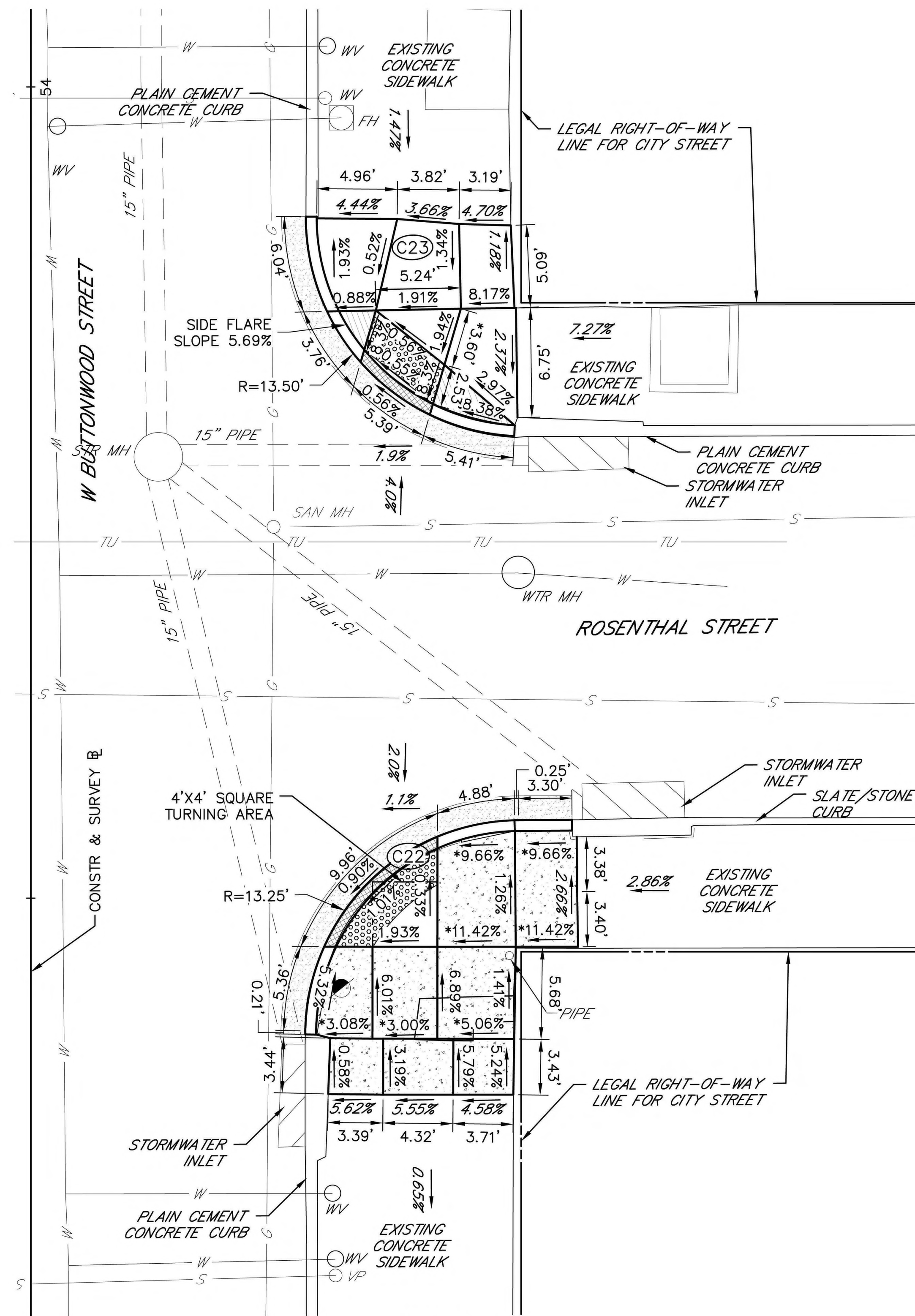
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SR 0183 – W. BUTTONWOOD AND ROSENTHAL CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	26 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP C STATION	RAMP LOCATION
C22	TYPE 1A	W. BUTTONWOOD ST	54+89 LT	8
C23	TYPE 1	W. BUTTONWOOD ST	54+22 LT	4



NOTE:

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- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

SCALE



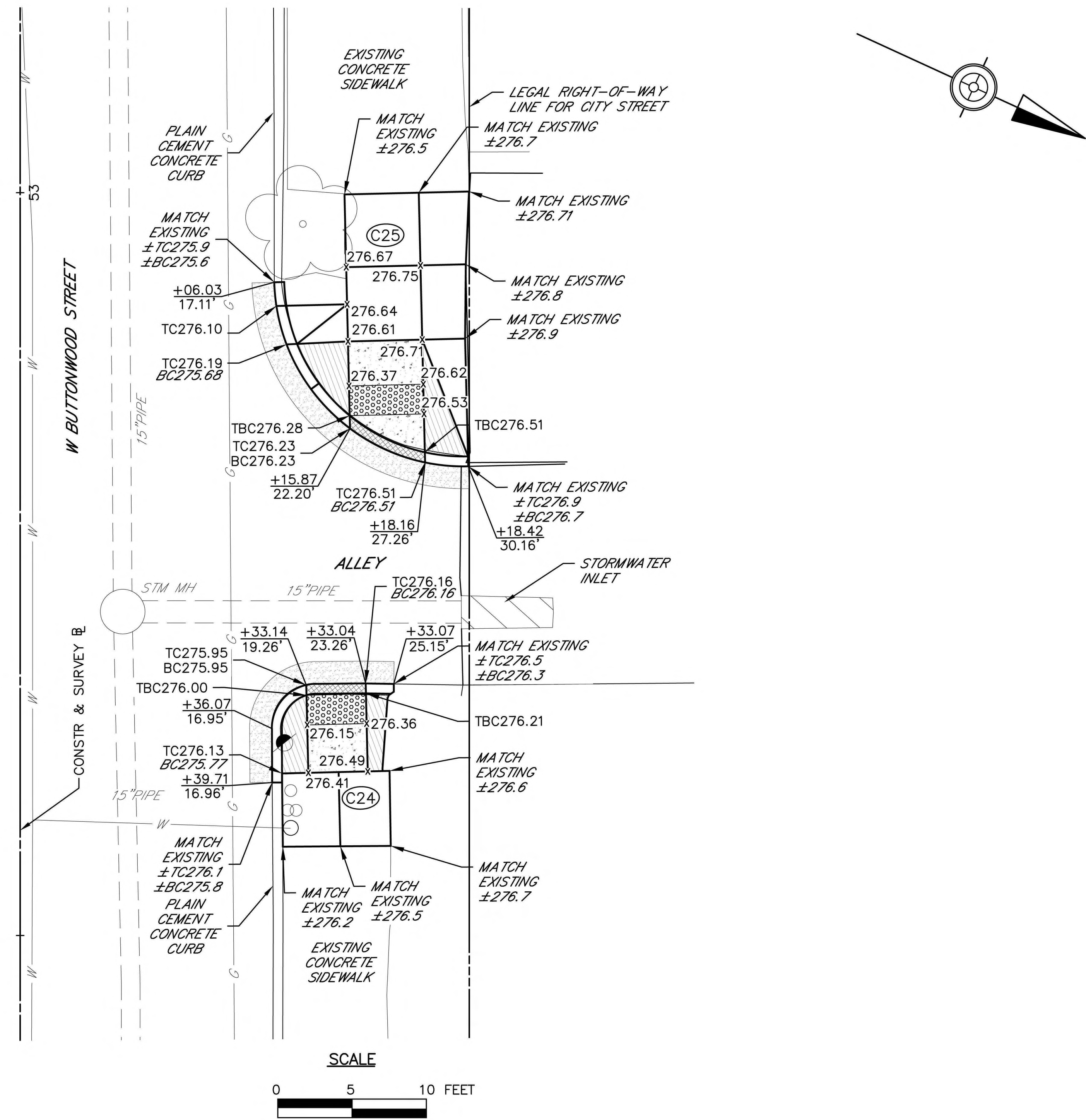
SR 0183 – W. BUTTONWOOD AND ROSENTHAL CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	27 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP STATION	RAMP LOCATION
C24	TYPE 4 (PARALLEL)	W. BUTTONWOOD ST	53+33 LT	7
C25	TYPE 4 (PARALLEL)	W. BUTTONWOOD ST	53+17 LT	4



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 - ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

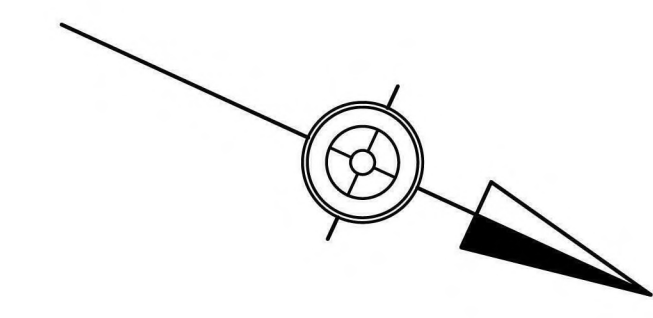
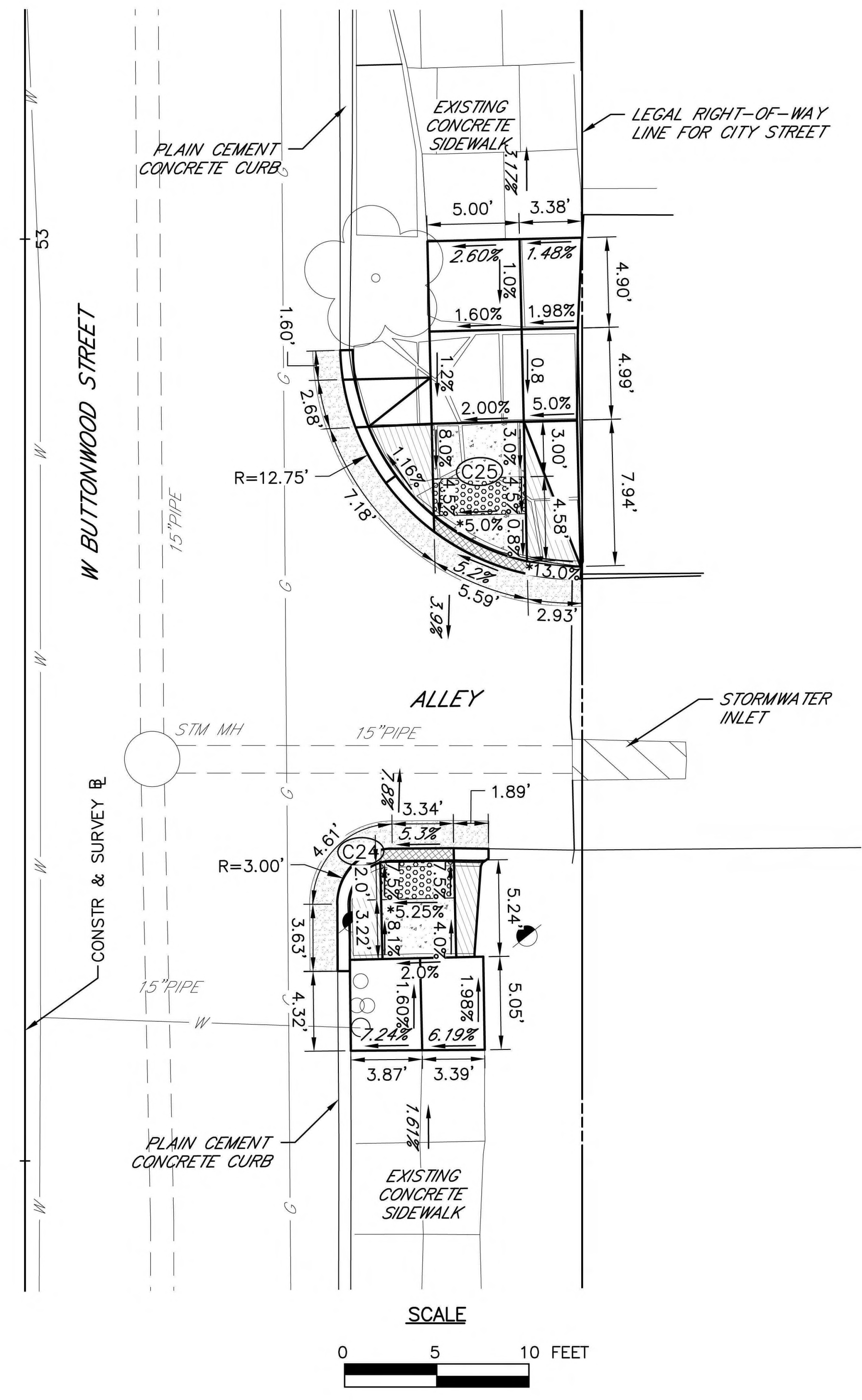
SR 0183 – W. BUTTONWOOD AND ALLEY CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	28 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP C STATION	RAMP LOCATION
C24	TYPE 4 (PARALLEL)	W. BUTTONWOOD ST	53+33 LT	7
C25	TYPE 4 (PARALLEL)	W. BUTTONWOOD ST	53+17 LT	4



- NOTE:**
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 - ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

CR#	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

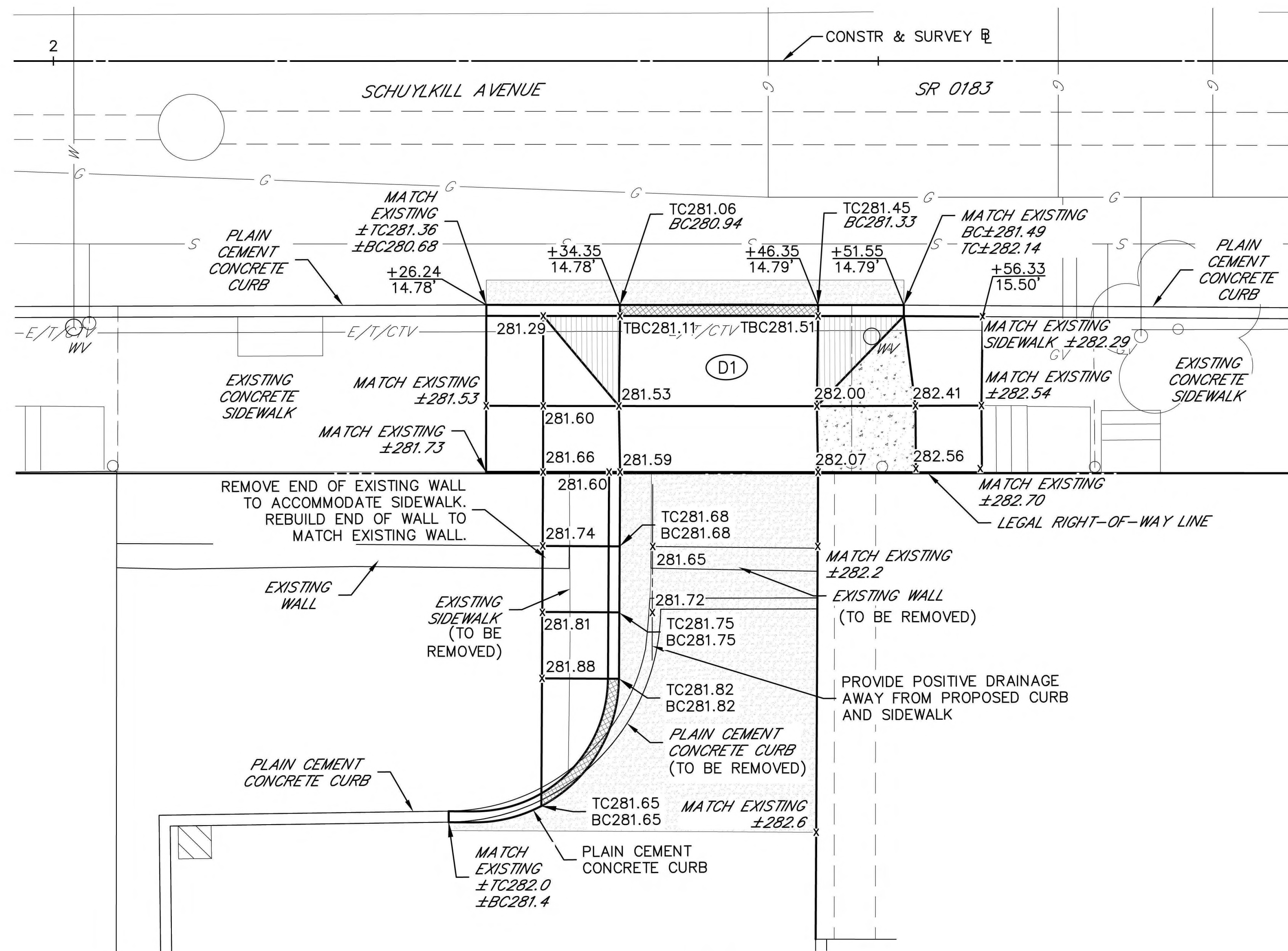
SR 0183 – W. BUTTONWOOD AND ALLEY CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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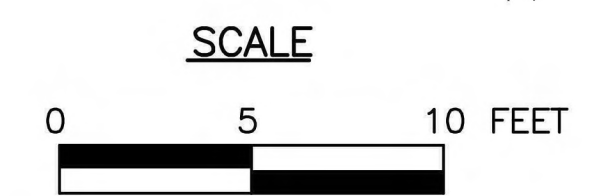
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	29 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP STATION	RAMP LOCATION
D1	TYPE 1A DRIVEWAY APRON	SR 0183 (SCHUYLKILL AVE)	2+39 RT	-



NOTE:

- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.



LEGEND

- | | | | |
|-------------|---|--|---|
| | PROPOSED CURB RAMP IDENTIFIER | | PROPOSED PLAIN CEMENT DEPRESSED CURB |
| | PROPOSED DETECTABLE WARNING SURFACE | | PROPOSED CONCRETE RAMP |
| | PROPOSED LANDING | | PROPOSED CHEEKWALL |
| | PROPERTY LINE | | PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL) |
| 312.10 | PROPOSED SPOT ELEVATION | | PEDESTRIAN BUTTON |
| TC/BC312.10 | PROPOSED TOP CURB/BOTTOM | | EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW |
| TW/BW312.10 | PROPOSED TOP CHEEKWALL | | PROPOSED SLOPE WITH FLOW ARROW |
| | STORM INLET | | PROPOSED DIMENSION |
| | RAMP SIDE FLARE | | PROPOSED TRAFFIC SIGNAL SUPPORT |
| | ROUNDED CONCRETE SURFACE | | TIF REQUIRED |
| | PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL) | | UTILITY POLE |

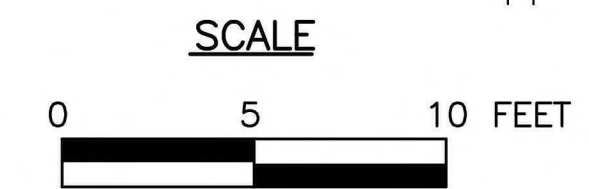
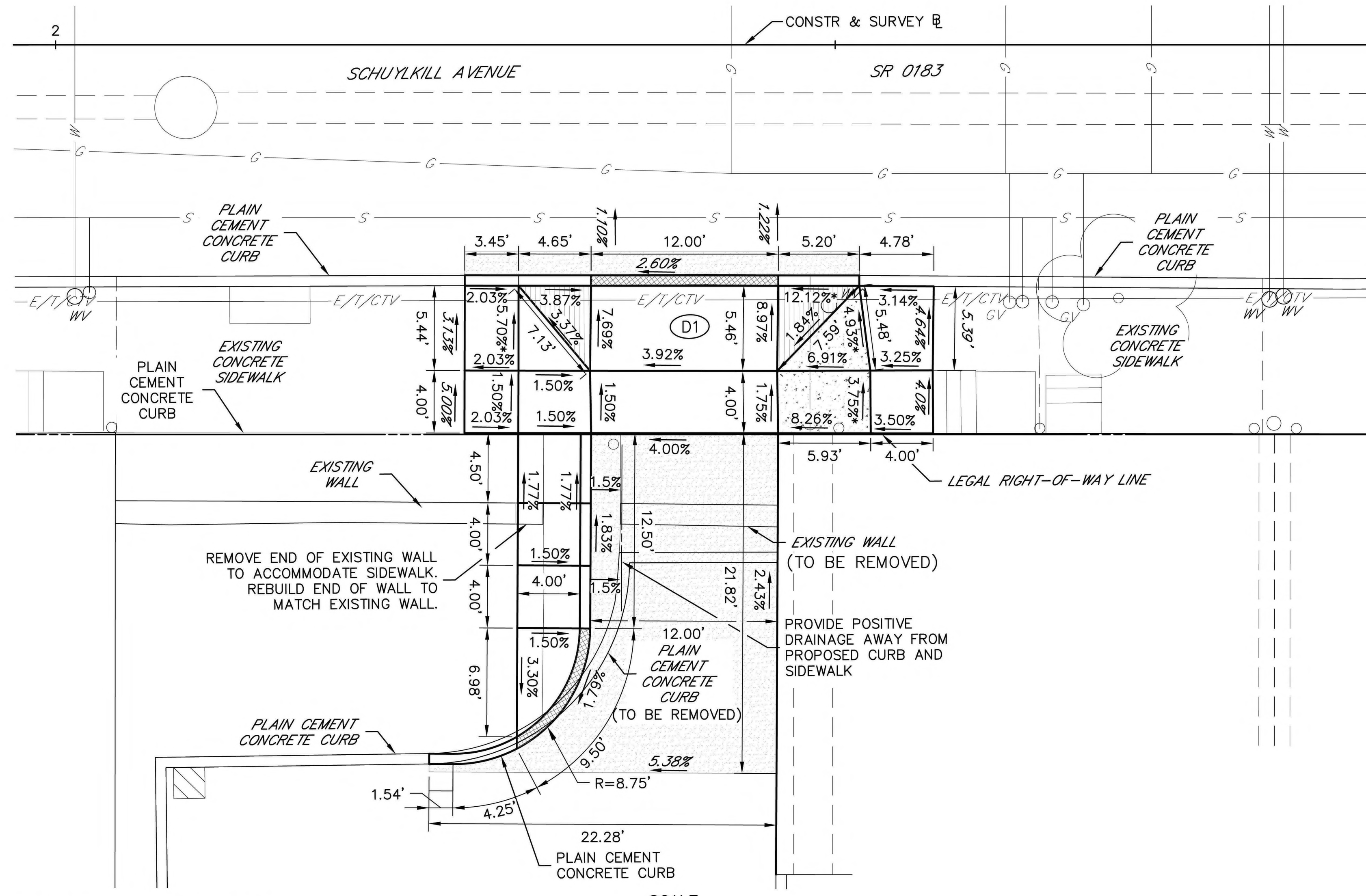
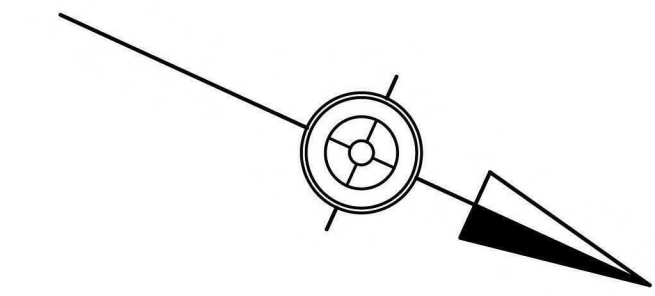
SR 0183 – SCHUYLKILL DRIVEWAY APRON 1 DETAIL CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	30 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP STATION	RAMP LOCATION
D1	TYPE 1A DRIVEWAY APRON	SR 0183 (SCHUYLKILL AVE)	2+39 RT	-



NOTE:

- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

- | | | | |
|-------------|---|---|---|
| | PROPOSED CURB RAMP IDENTIFIER | | PROPOSED PLAIN CEMENT DEPRESSED CURB |
| | PROPOSED DETECTABLE WARNING SURFACE | | PROPOSED CONCRETE RAMP |
| | PROPOSED LANDING | | PROPOSED CHEEKWALL |
| | PROPERTY LINE | | PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL) |
| 312.10 | PROPOSED SPOT ELEVATION | ● | PEDESTRIAN BUTTON |
| TC/BC312.10 | PROPOSED TOP CURB/BOTTOM | | EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW |
| TW/BW312.10 | PROPOSED TOP CHEEKWALL | | PROPOSED SLOPE WITH FLOW ARROW |
| | STORM INLET | | PROPOSED DIMENSION |
| | RAMP SIDE FLARE | ● | PROPOSED TRAFFIC SIGNAL SUPPORT |
| | ROUNDED CONCRETE SURFACE | * | TIF REQUIRED |
| | PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL) | | UTILITY POLE |

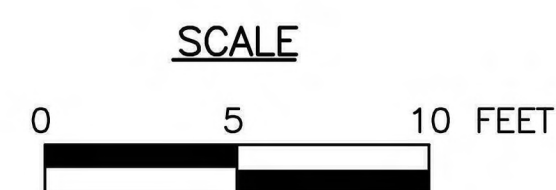
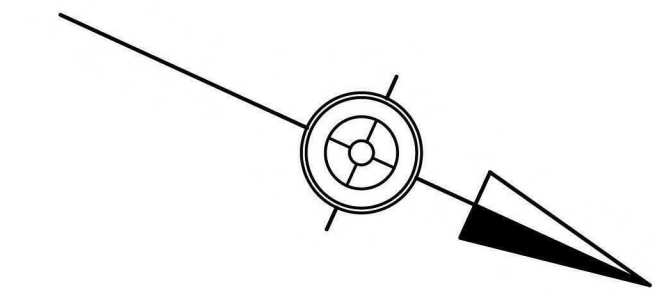
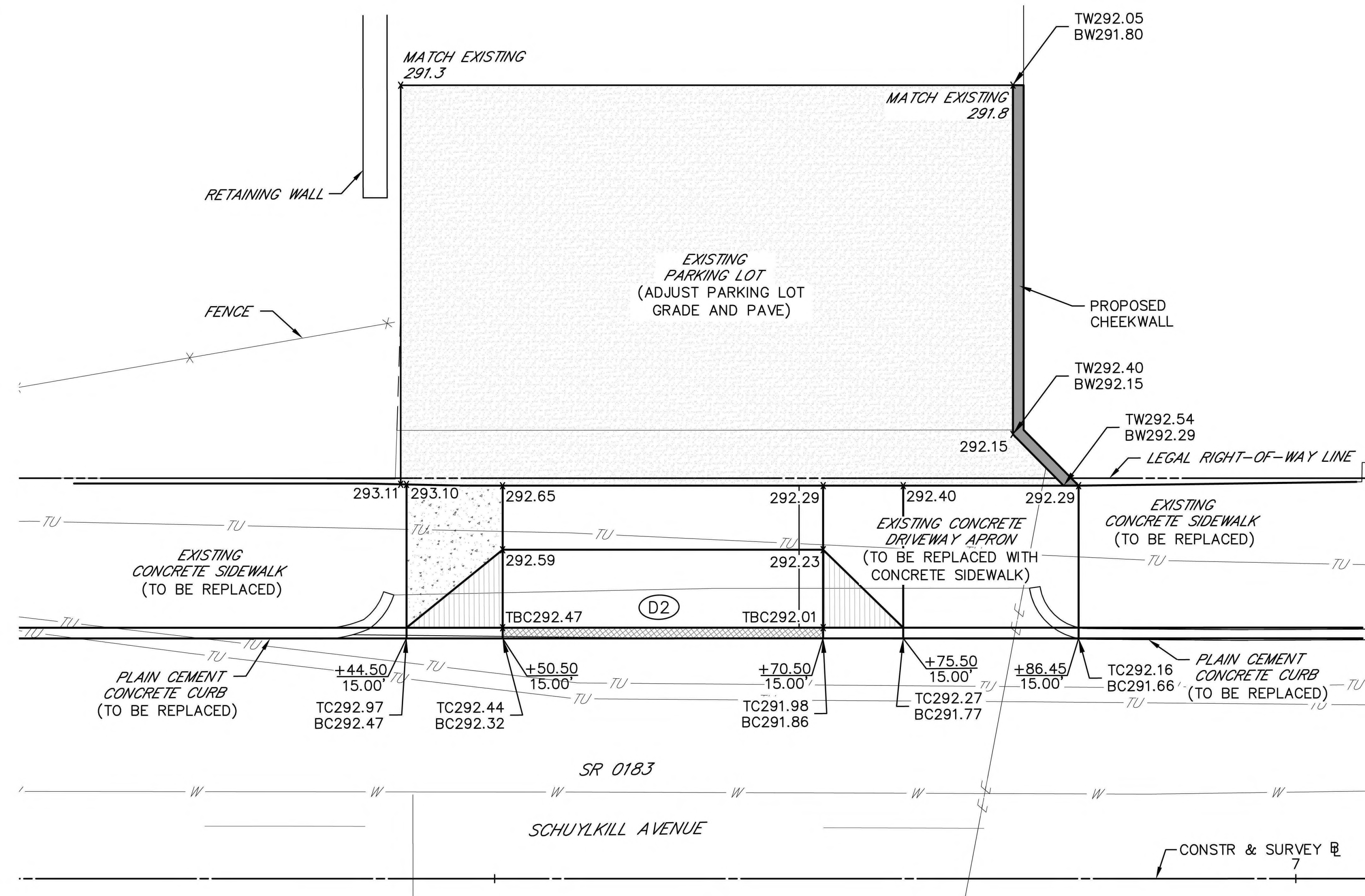
SR 0183 – SCHUYLKILL DRIVEWAY APRON 1 DETAIL
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	31 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP C STATION	RAMP LOCATION
D2	TYPE 1A DRIVEWAY APRON	SR 0183 (SCHUYLKILL AVE)	6+60 LT	-



NOTE:

- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

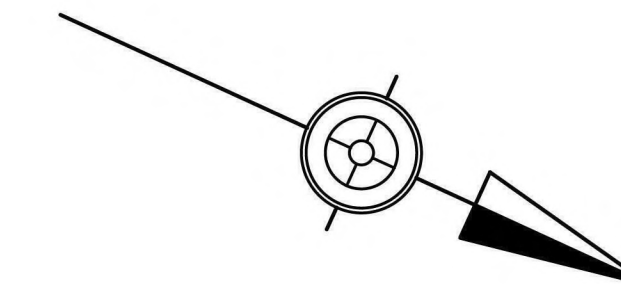
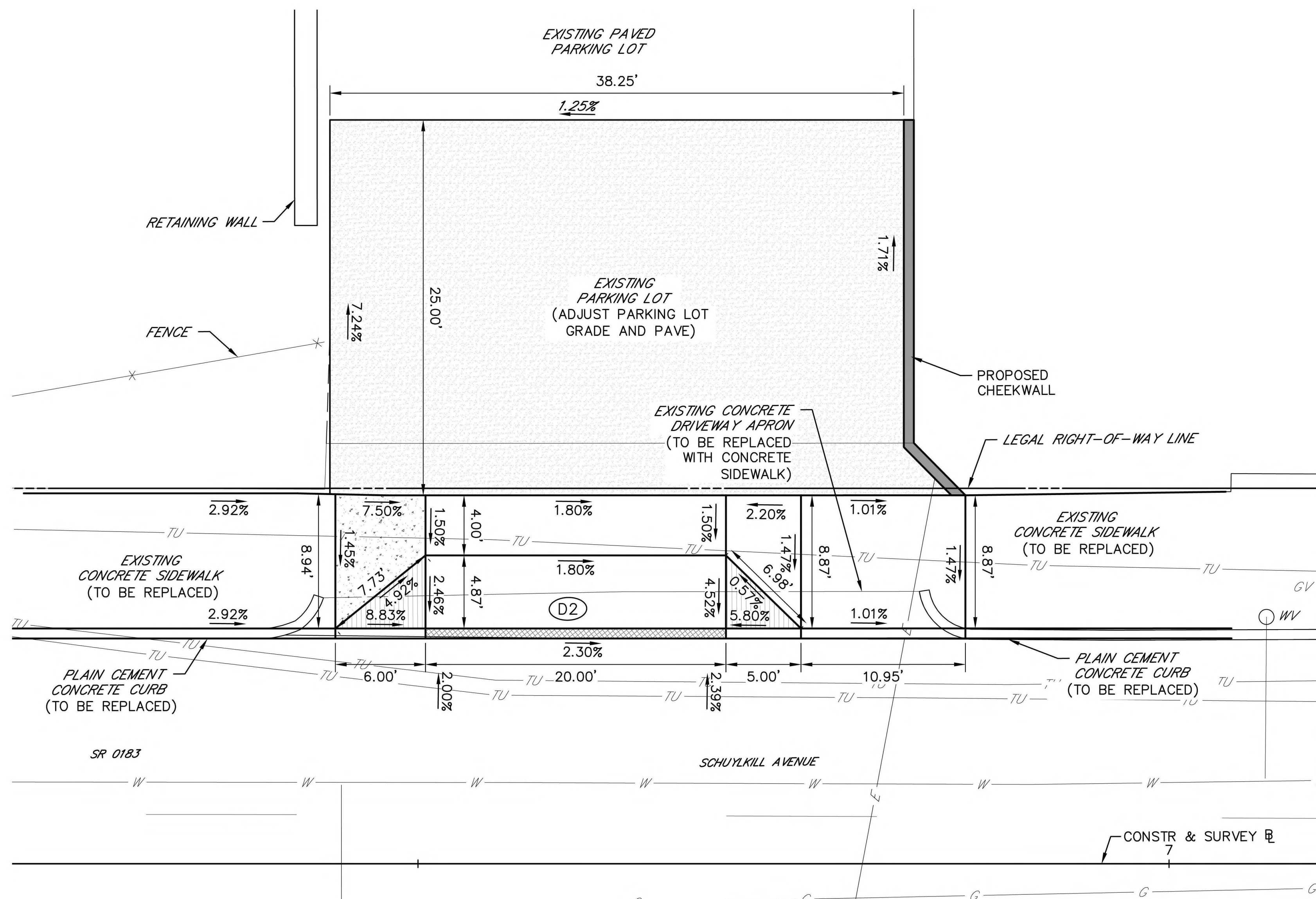
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CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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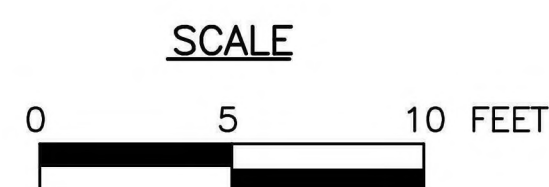
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	32 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

CURB RAMP ID	RAMP TYPE	CONSTRUCTION @	RAMP @ STATION	RAMP LOCATION
D2	TYPE 1A DRIVEWAY APRON	SR 0183 (SCHUYLKILL AVE)	6+60 LT	-



NOTE:

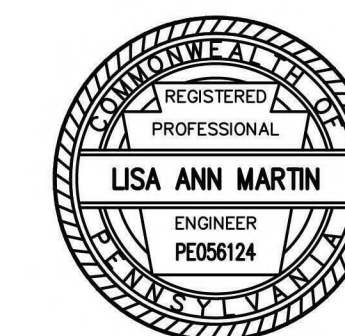
- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.



LEGEND

	PROPOSED CURB RAMP IDENTIFIER		PROPOSED PLAIN CEMENT DEPRESSED CURB
	PROPOSED DETECTABLE WARNING SURFACE		PROPOSED CONCRETE RAMP
	PROPOSED LANDING		PROPOSED CHEEKWALL
	PROPERTY LINE		PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
312.10	PROPOSED SPOT ELEVATION		PEDESTRIAN BUTTON
TC/BC312.10	PROPOSED TOP CURB/BOTTOM		EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
TW/BW312.10	PROPOSED TOP CHEEKWALL		PROPOSED SLOPE WITH FLOW ARROW
	STORM INLET		PROPOSED DIMENSION
	RAMP SIDE FLARE		PROPOSED TRAFFIC SIGNAL SUPPORT
	ROUNDED CONCRETE SURFACE		TIF REQUIRED
	PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)		UTILITY POLE

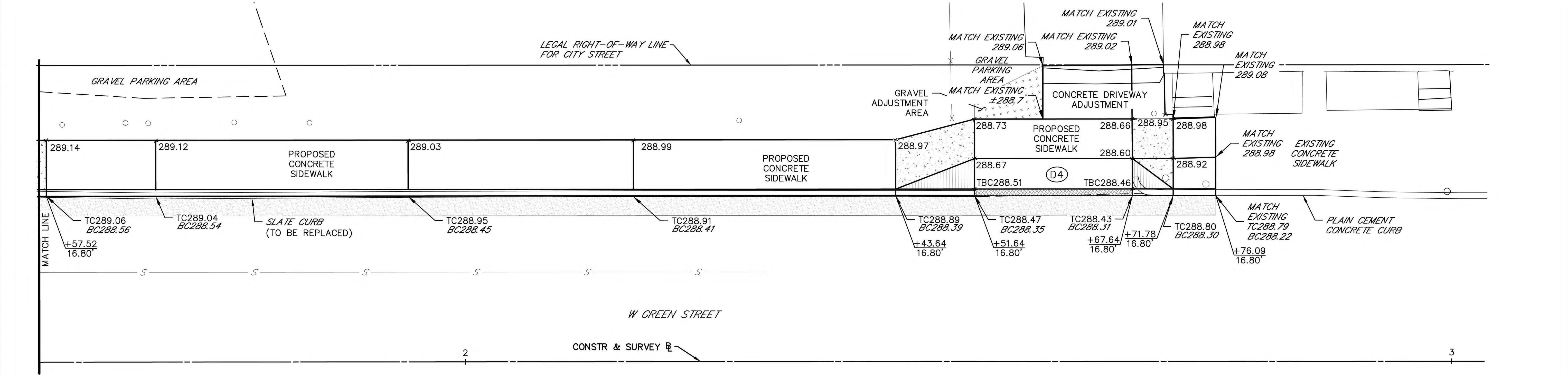
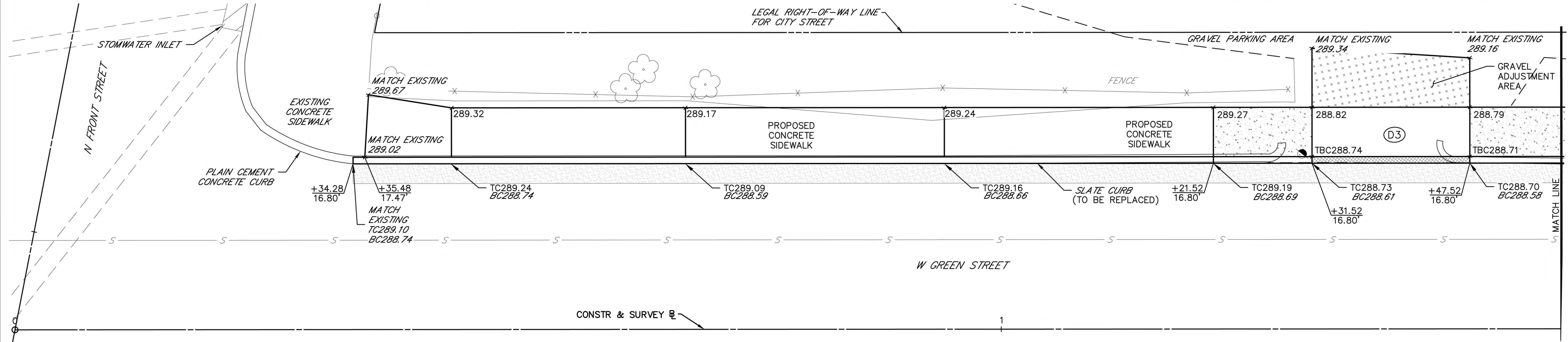
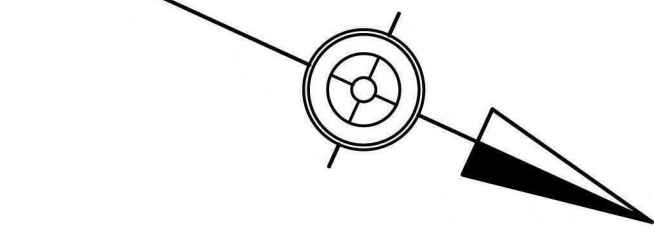
SR 0183 – SCHUYLKILL DRIVEWAY APRON 2 DETAIL
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



W:\01\01194\01194-04_SSR_0183\DWG\312\2022\Constr_DWG\01194-04_SSR0183-05B-C12-ADA_Slopes-dimens_sheets.dwg - Plot: 10/19/2022 3:49 PM - By: CAMPBELL - Device: AUTOCAD_PDF (GENERAL DOCUMENTATION).PC3 - Plot Style: MKA_PLOT_B+W.CTB

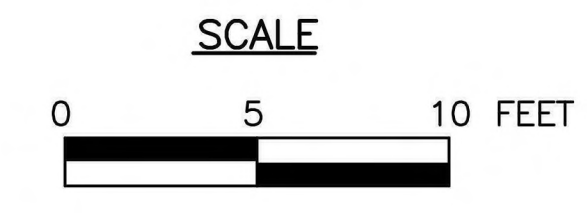
CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP LOCATION	RAMP LOCATION
D3	TYPE 3A DRIVEWAY APRON	W GREEN ST	1+39 LT	-
D4	TYPE 3 DRIVEWAY APRON	W GREEN ST	2+60 LT	-

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	33 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



LEGEND

- | | |
|---|---|
| PROPOSED CURB RAMP IDENTIFIER | PROPOSED PLAIN CEMENT DEPRESSED CURB |
| PROPOSED DETECTABLE WARNING SURFACE | PROPOSED CONCRETE RAMP |
| PROPOSED LANDING | PROPOSED CHEEKWALL |
| PROPERTY LINE | PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL) |
| 312.10 PROPOSED SPOT ELEVATION | PEDESTRIAN BUTTON |
| TC/BC312.10 PROPOSED TOP CURB/BOTTOM | EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW |
| TW/BW312.10 PROPOSED TOP CHEEKWALL | PROPOSED SLOPE WITH FLOW ARROW |
| STORM INLET | PROPOSED DIMENSION |
| RAMP SIDE FLARE | PROPOSED TRAFFIC SIGNAL SUPPORT |
| ROUNDED CONCRETE SURFACE | TIF REQUIRED |
| PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL) | UTILITY POLE |



NOTE:

- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

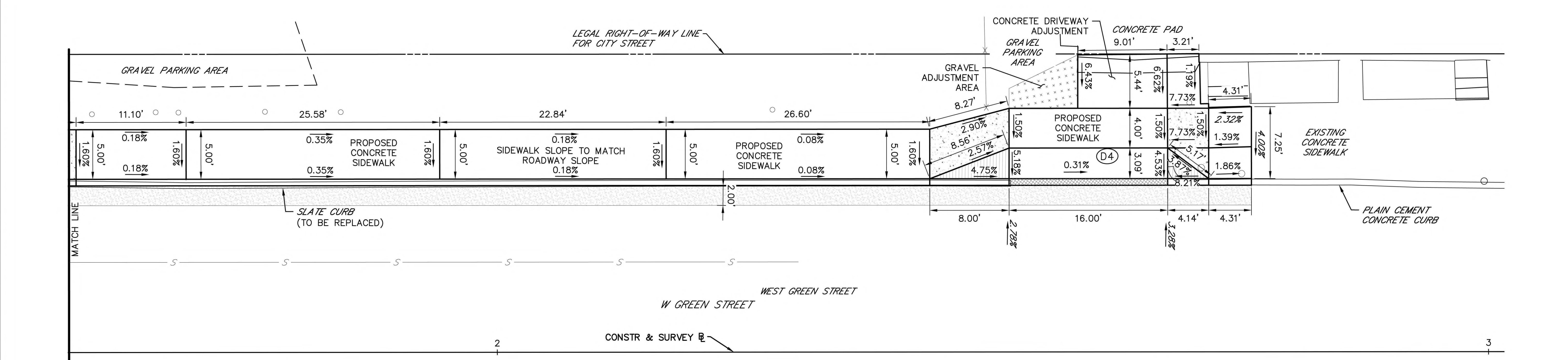
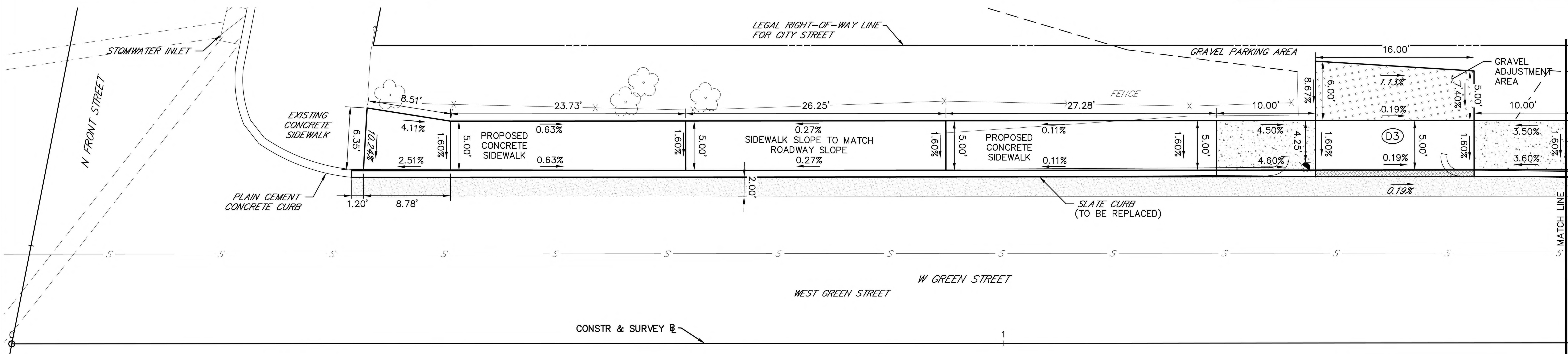
SR 0183 – W GREEN DRIVEWAY APRON DETAIL
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS



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CURB RAMP ID	RAMP TYPE	CONSTRUCTION	RAMP C STATION	RAMP LOCATION
D3	TYPE 3A DRIVEWAY APRON	W GREEN ST	1+39 LT	-
D4	TYPE 3 DRIVEWAY APRON	W GREEN ST	2+60 LT	-

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	34 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



LEGEND

- (CR#) PROPOSED CURB RAMP IDENTIFIER
- [Pattern] PROPOSED DETECTABLE WARNING SURFACE
- [Pattern] PROPOSED LANDING
- P- PROPERTY LINE
- 312.10 PROPOSED SPOT ELEVATION
- TC/BC312.10 PROPOSED TOP CURB/BOTTOM
- TW/BW312.10 PROPOSED TOP CHEEKWALL
- [Pattern] STORM INLET
- [Pattern] RAMP SIDE FLARE
- [Pattern] ROUNDED CONCRETE SURFACE
- [Pattern] PROPOSED RECONSTRUCTED AREA (GRAVEL MATERIAL)
- [Pattern] PROPOSED PLAIN CEMENT DEPRESSED CURB
- [Pattern] PROPOSED CONCRETE RAMP
- [Pattern] PROPOSED CHEEKWALL
- [Pattern] PROPOSED RECONSTRUCTED AREA (MATCH EXISTING MATERIAL)
- PEDESTRIAN BUTTON
- 6.00%* EXISTING/MATCH EXISTING SLOPE WITH FLOW ARROW
- 6.00%** PROPOSED SLOPE WITH FLOW ARROW
- 5.0' PROPOSED DIMENSION
- PROPOSED TRAFFIC SIGNAL SUPPORT
- * TIF REQUIRED
- UTILITY POLE



NOTE:

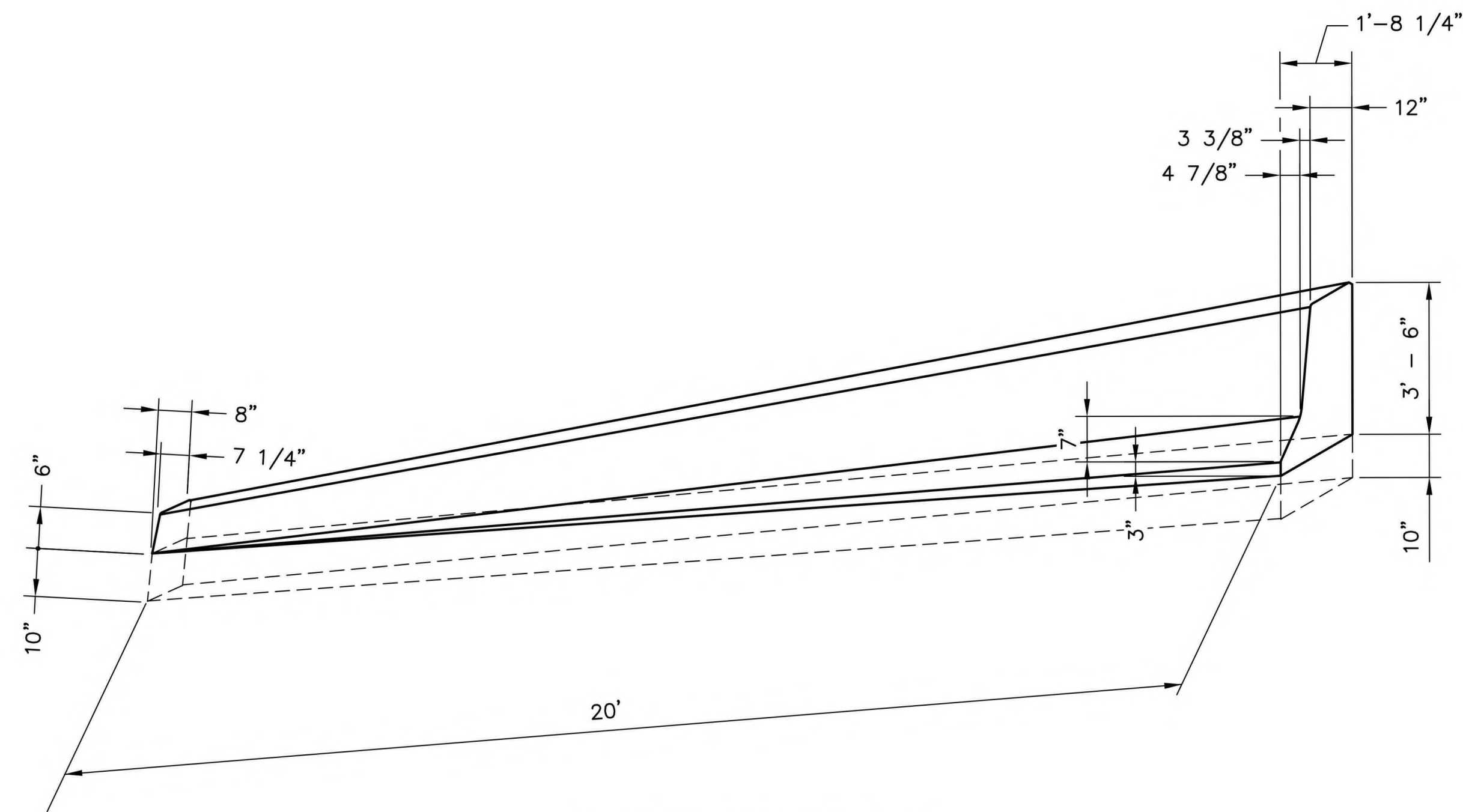
- ITALICIZED TEXT DENOTES EXISTING FEATURE, SLOPE, AND/OR DIMENSION.

**SR 0183 – W GREEN DRIVEWAY APRON DETAIL
CURB RAMP, DRIVEWAY AND INTERSECTION DETAILS**

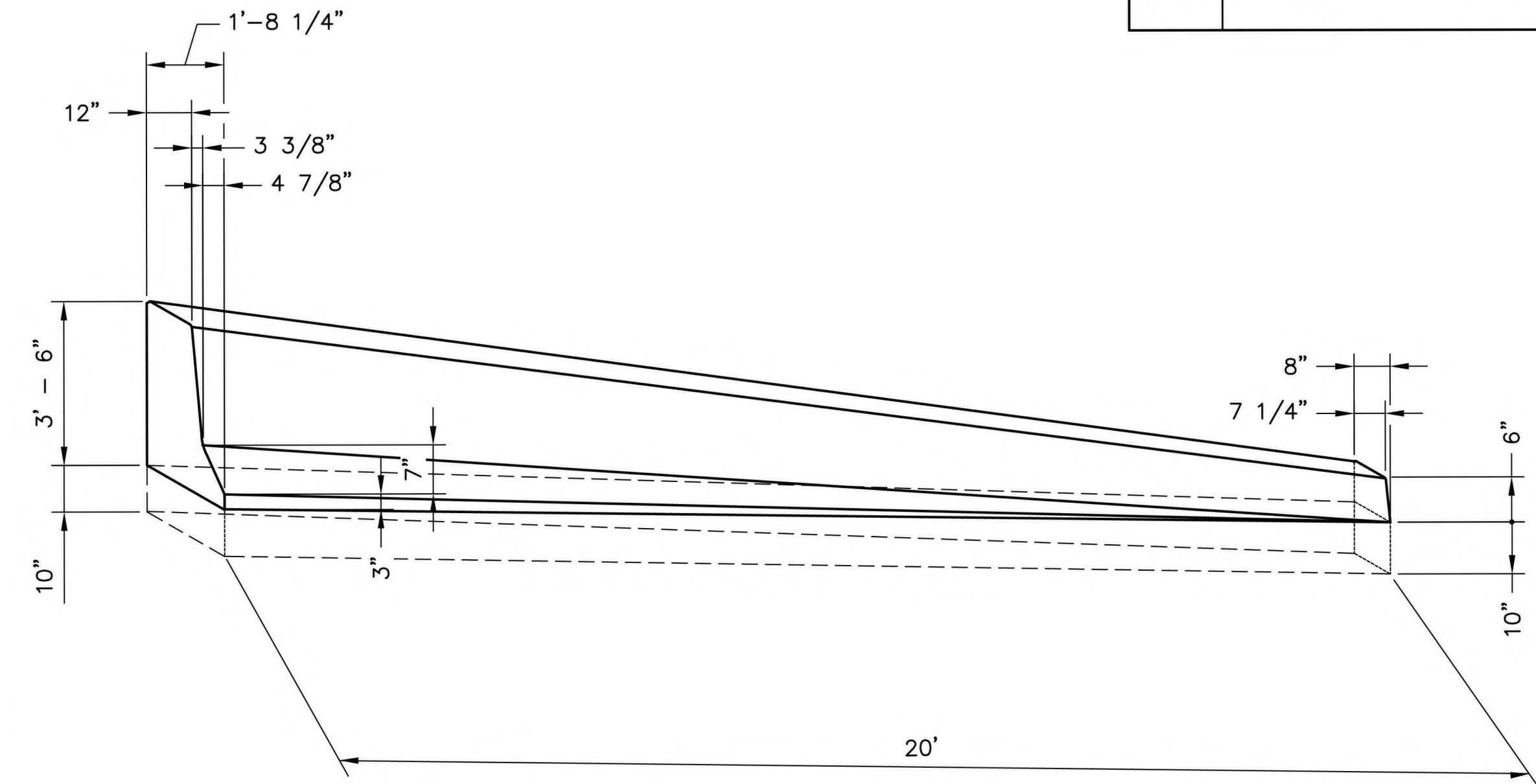


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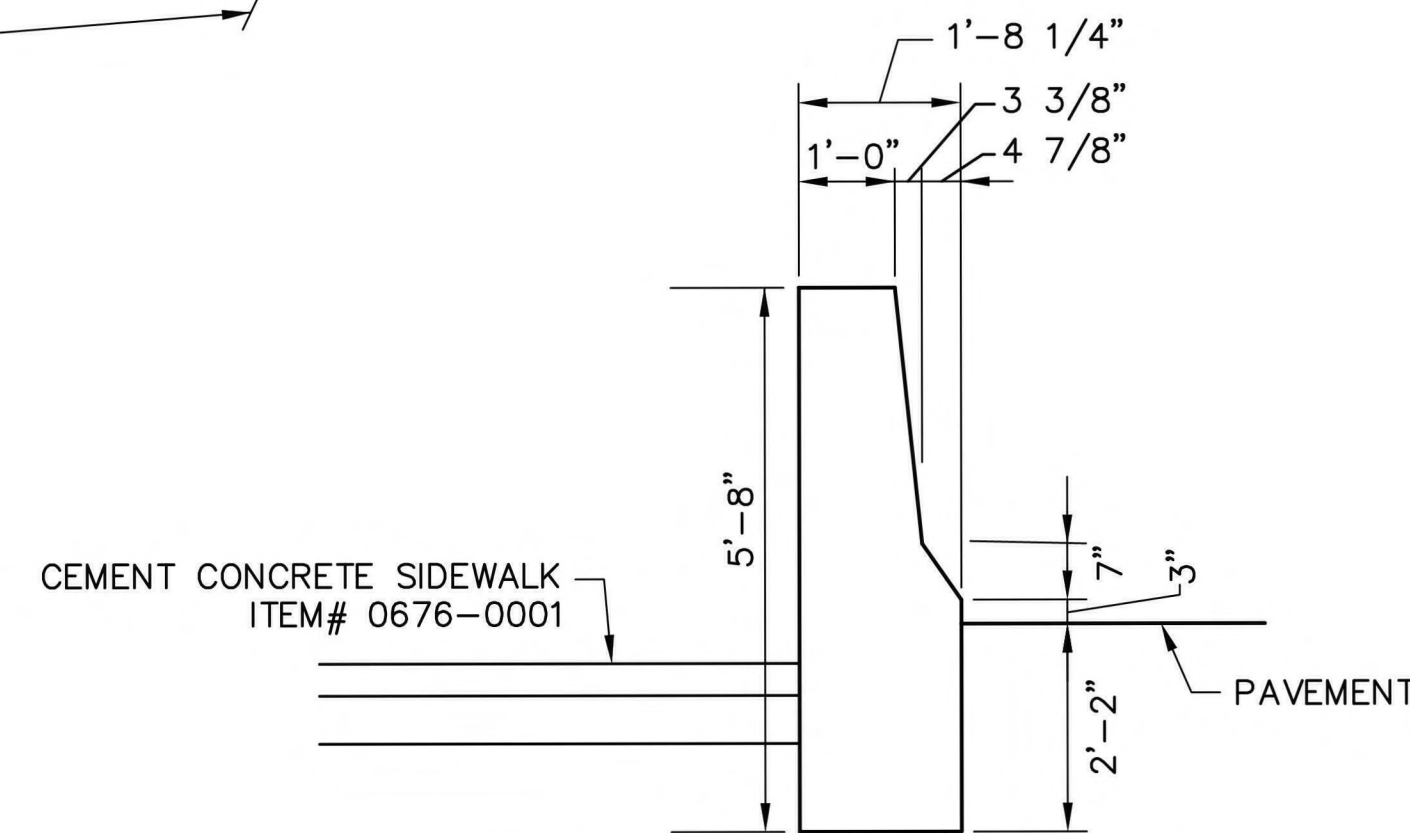
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	35 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



BARRIER TRANSITION 1
 NOT TO SCALE
 STA 3+63.00 LT TO STA 3+83.00 LT
 ITEM 9000-0017 BARRIER TRANSITION 1

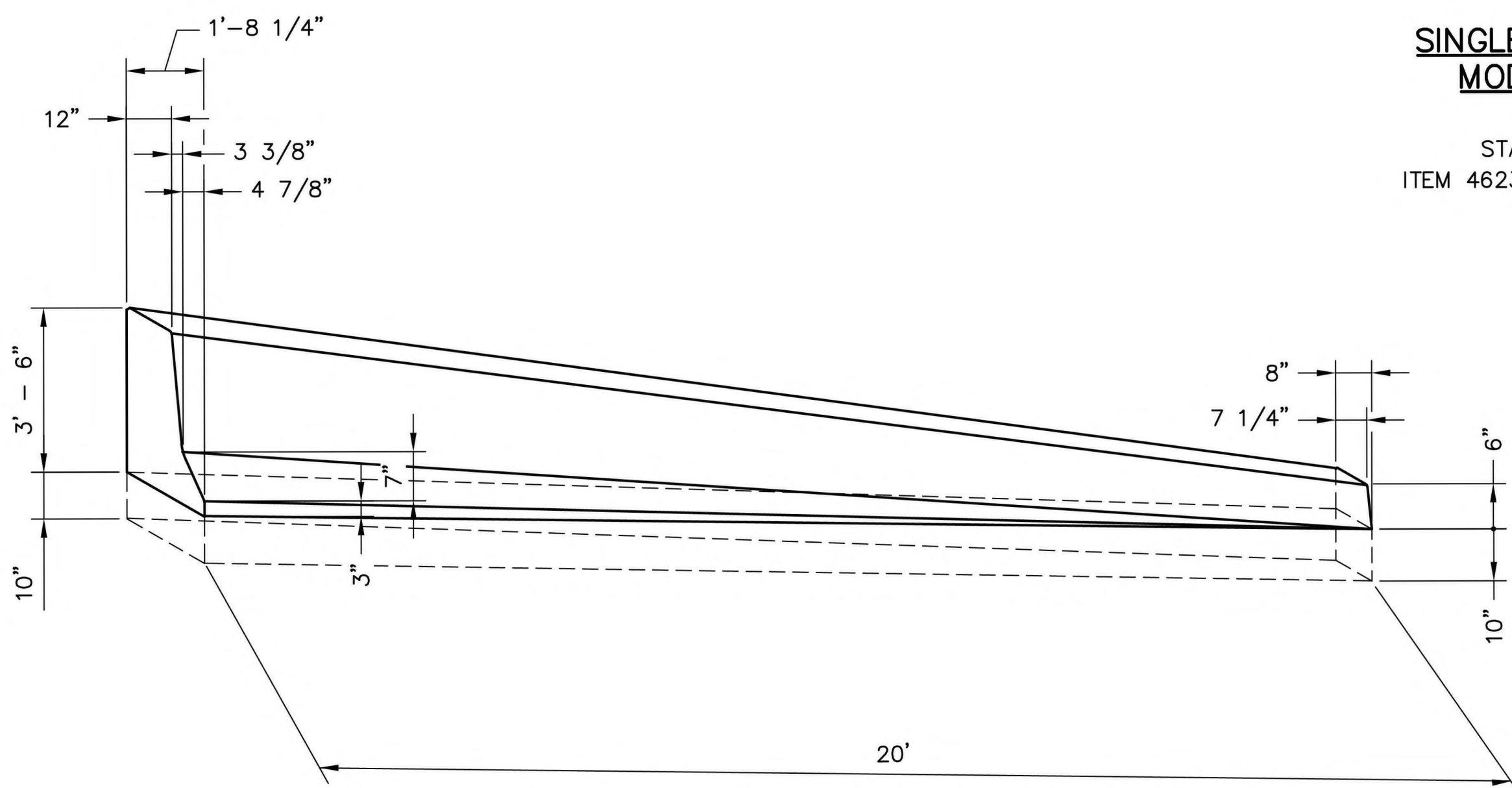


BARRIER TRANSITION 3
 NOT TO SCALE
 STA 5+79.00 LT TO STA 5+99.00 LT
 ITEM 9000-0019 BARRIER TRANSITION 3

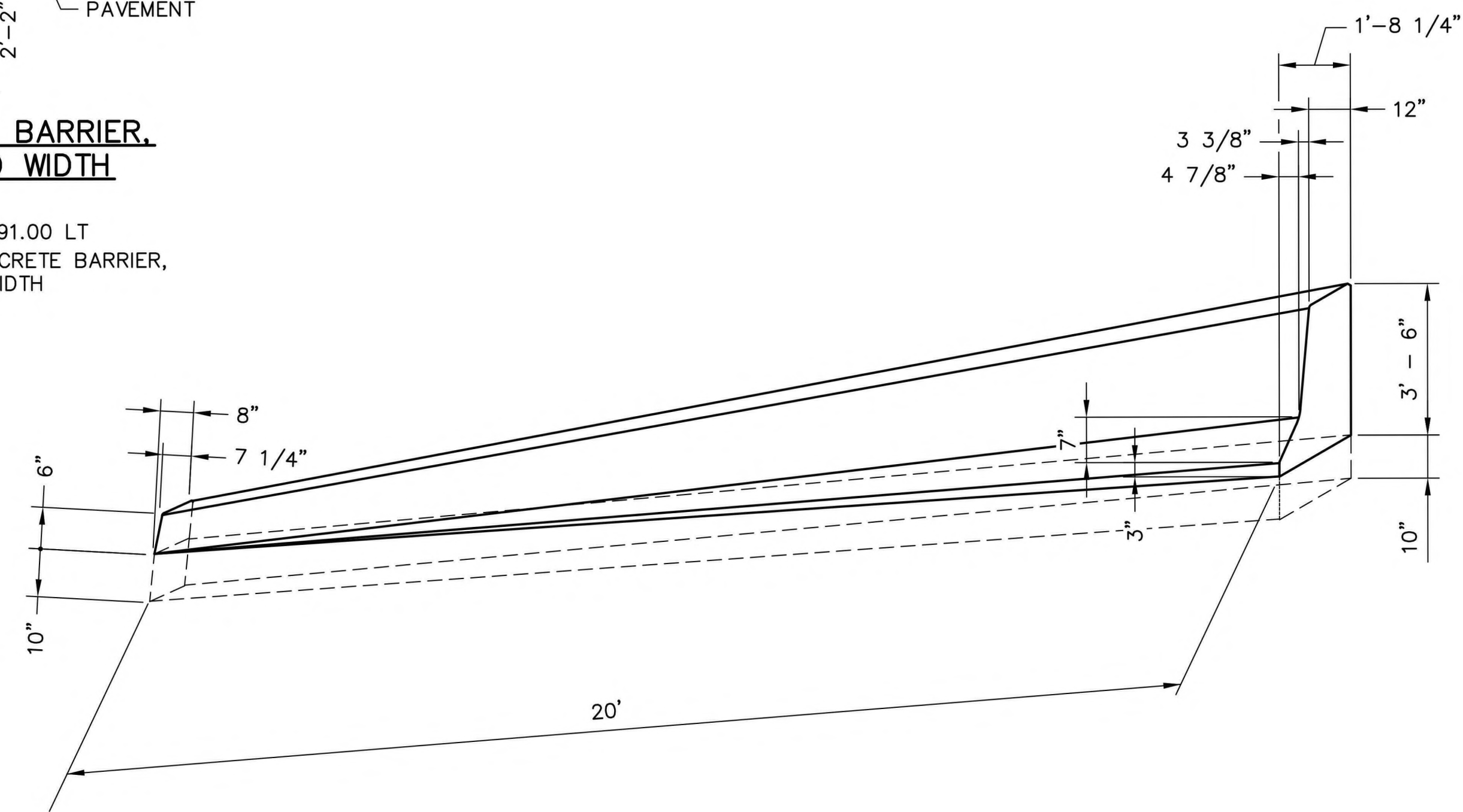


**SINGLE FACE CONCRETE BARRIER,
 MODIFIED HEIGHT AND WIDTH**

NOT TO SCALE
 STA 3+83.00 LT TO STA 4+91.00 LT
 ITEM 4623-0052 SINGLE FACE CONCRETE BARRIER,
 MODIFIED HEIGHT AND WIDTH



BARRIER TRANSITION 2
 NOT TO SCALE
 STA 4+63.00 RT TO STA 4+83.00 RT
 ITEM 9000-0018 BARRIER TRANSITION 2



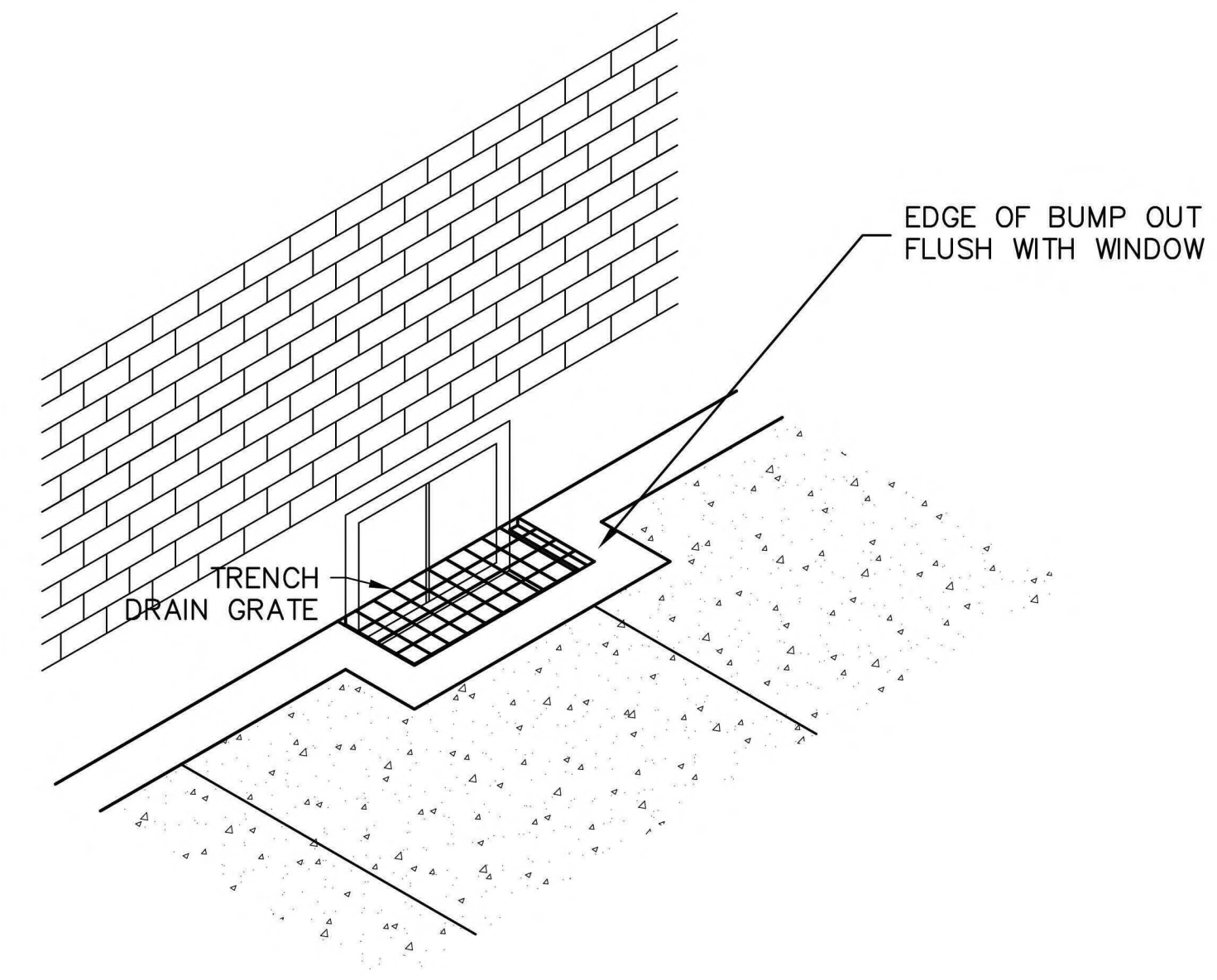
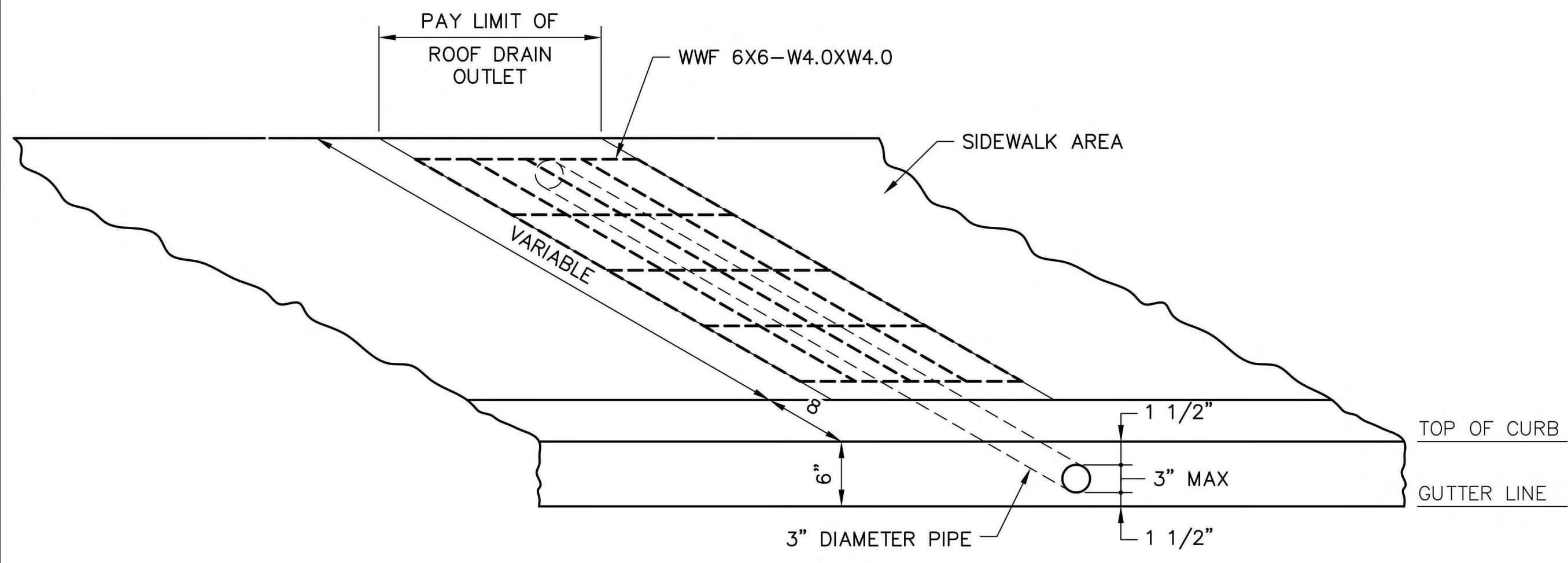
BARRIER TRANSITION 4
 NOT TO SCALE
 STA 5+72.00 RT TO STA 5+91.00 RT
 ITEM 9000-0020 BARRIER TRANSITION 4

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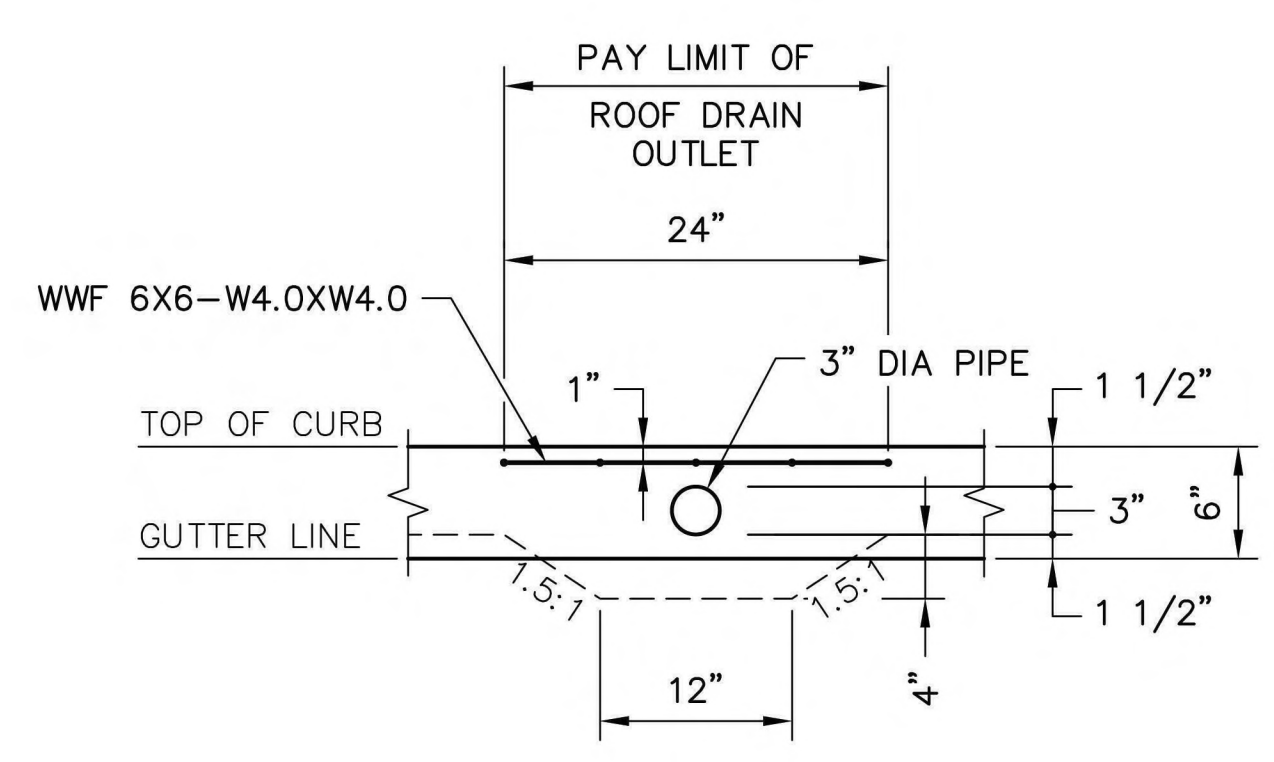
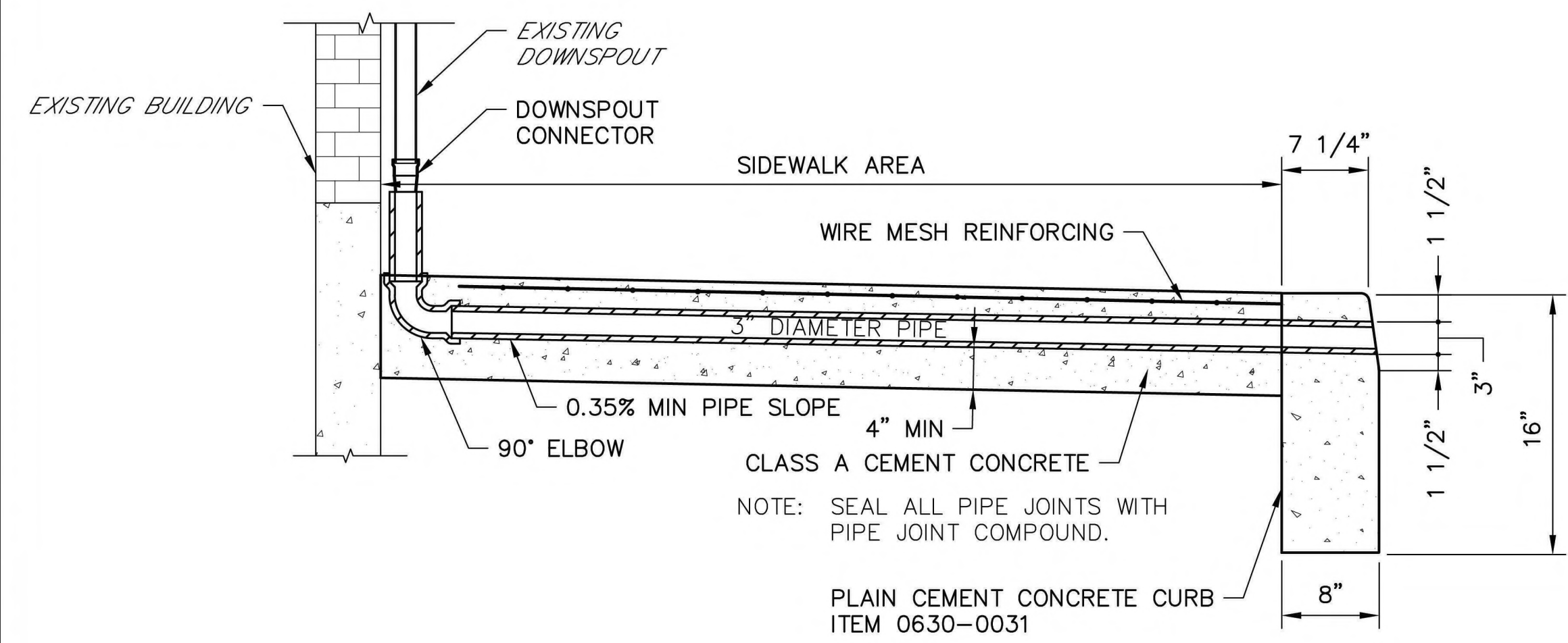


DETAILS

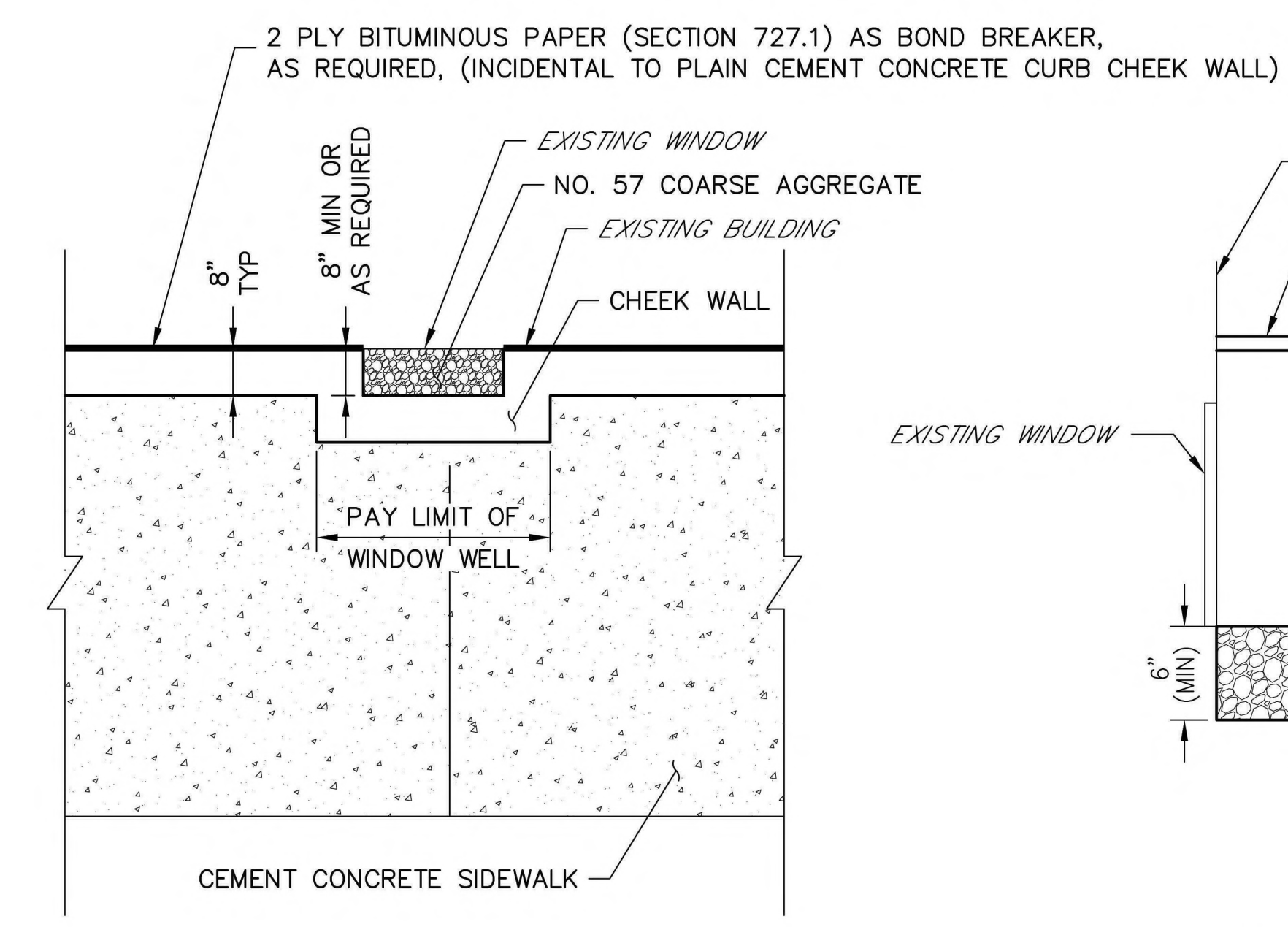
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	36 OF 63
CITY OF READING				
REVISIONS			DATE	BY



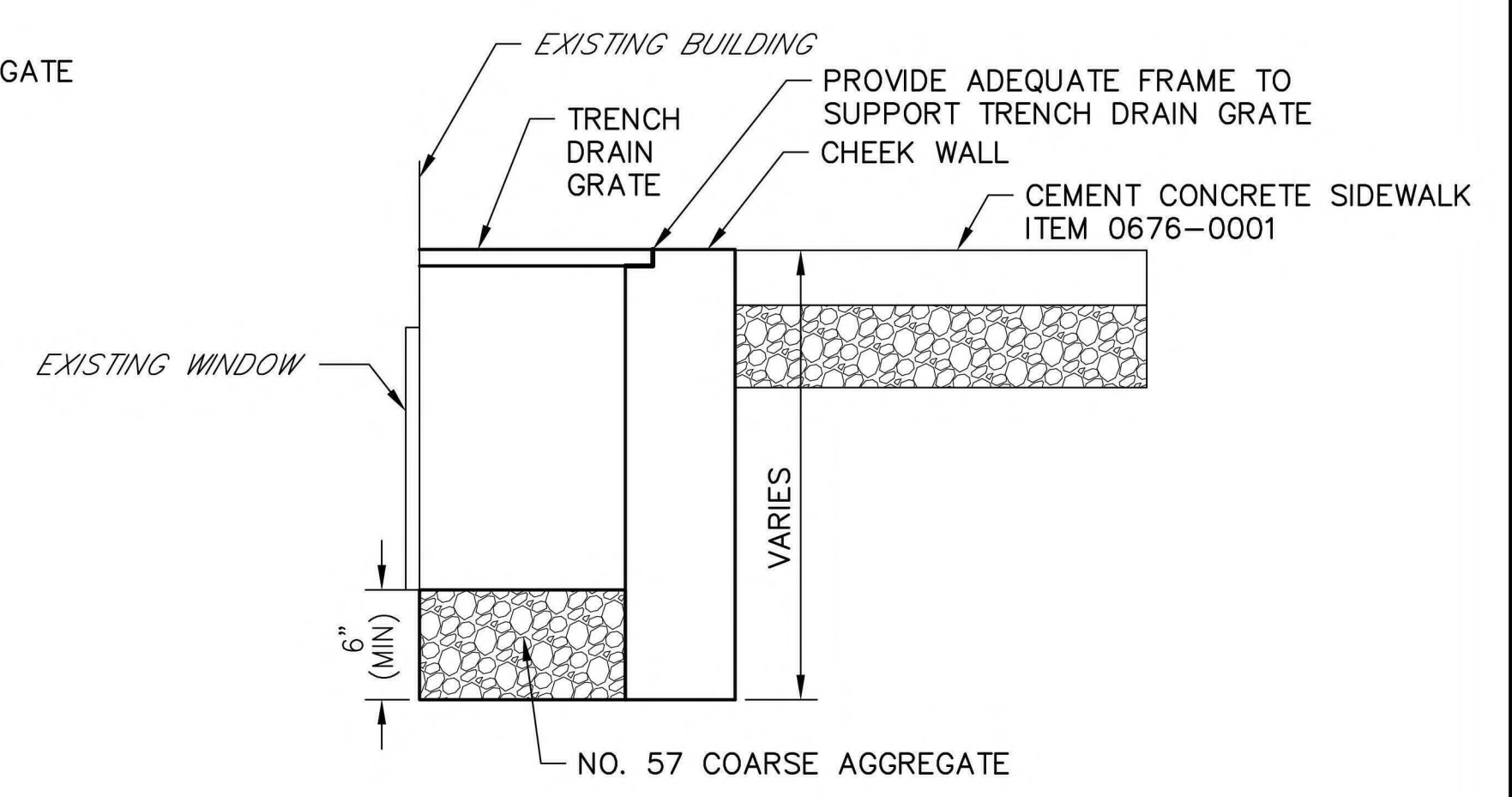
ISOMETRIC VIEW



ROOF DRAIN OUTLET
NOT TO SCALE
ITEM 9000-0007



PLAN VIEW



ELEVATION VIEW

WINDOW WELL
NOT TO SCALE
ITEM 9000-0009

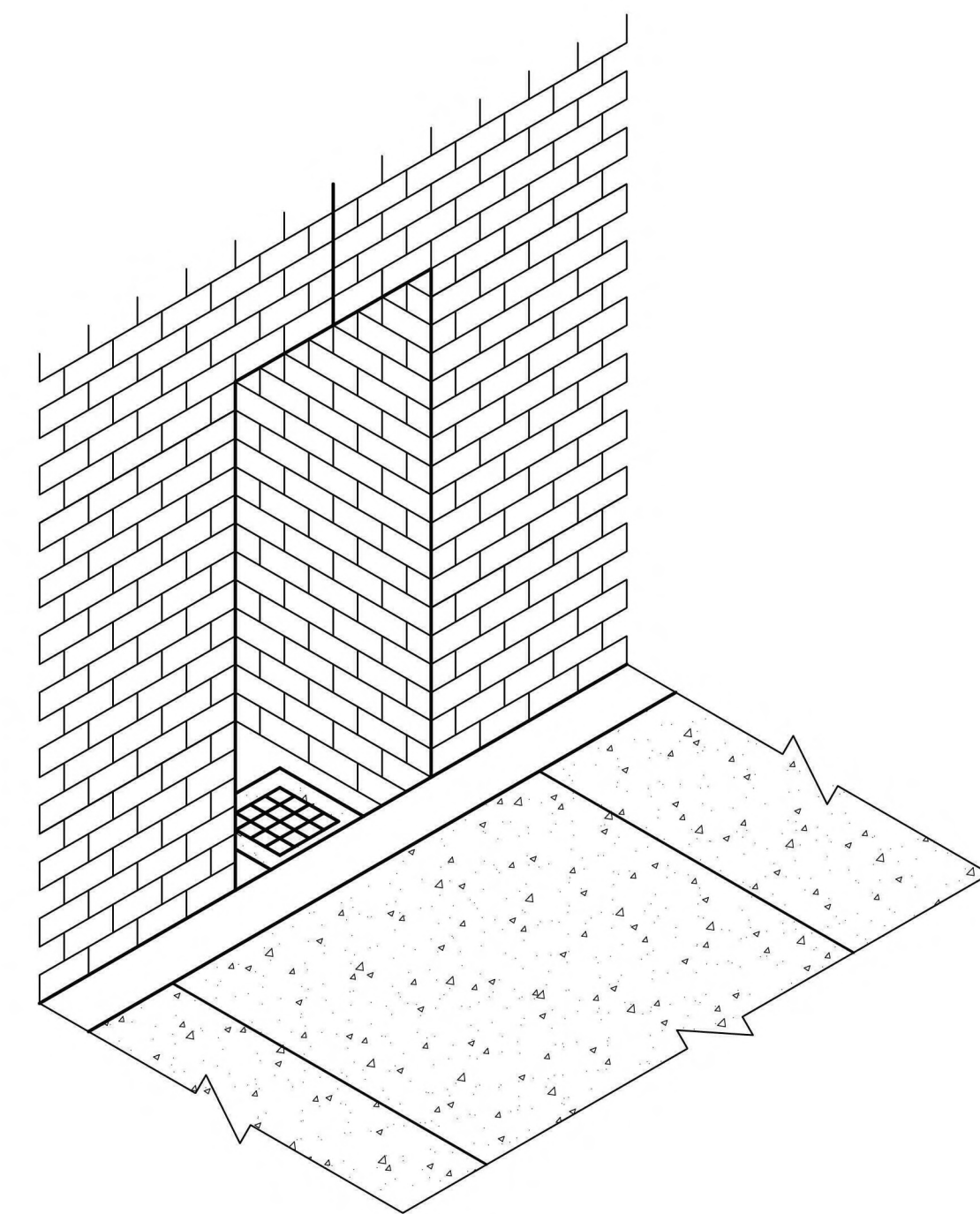
DETAILS



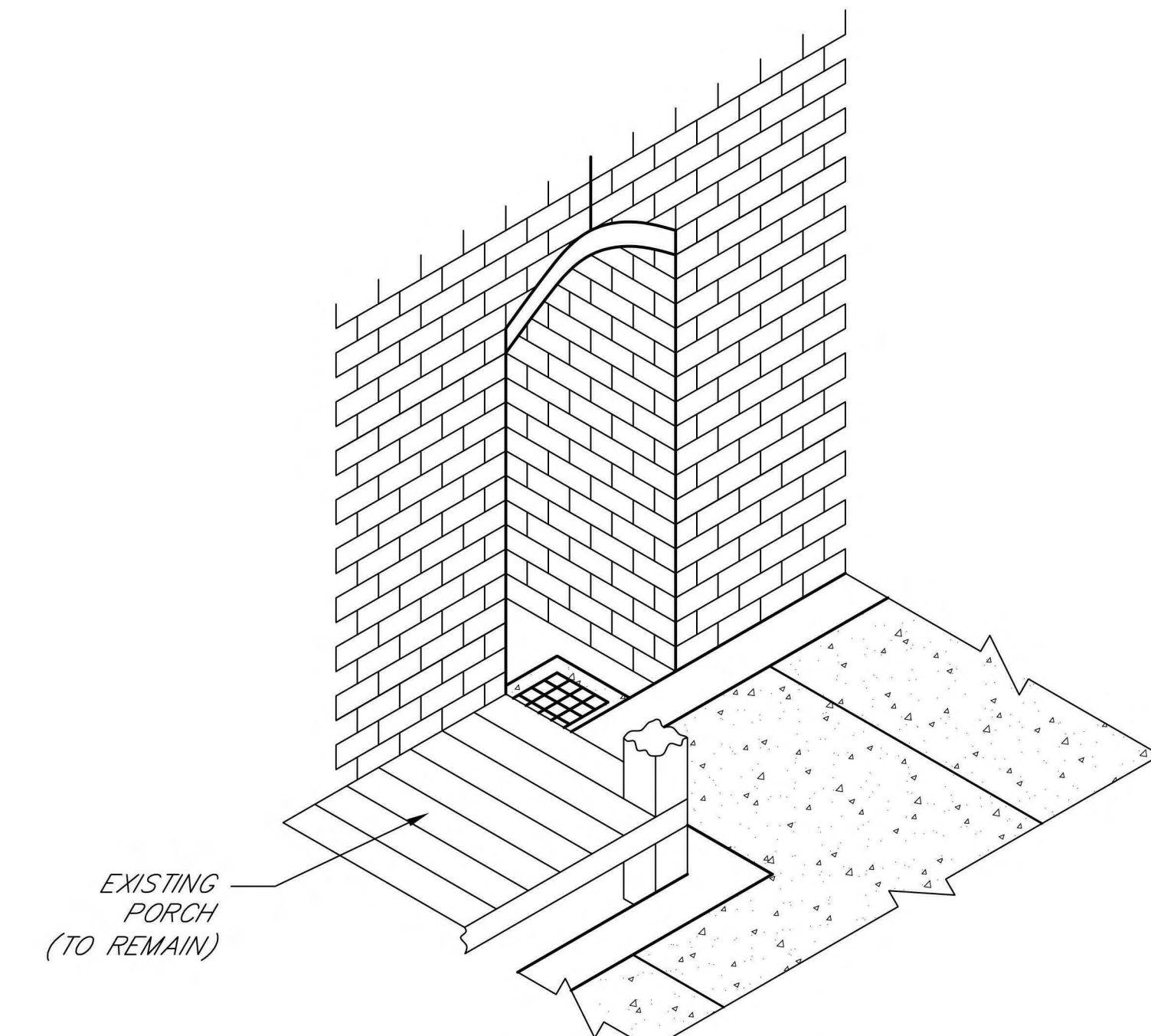
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	37 OF 63
CITY OF READING				
REVISIONS			DATE	BY

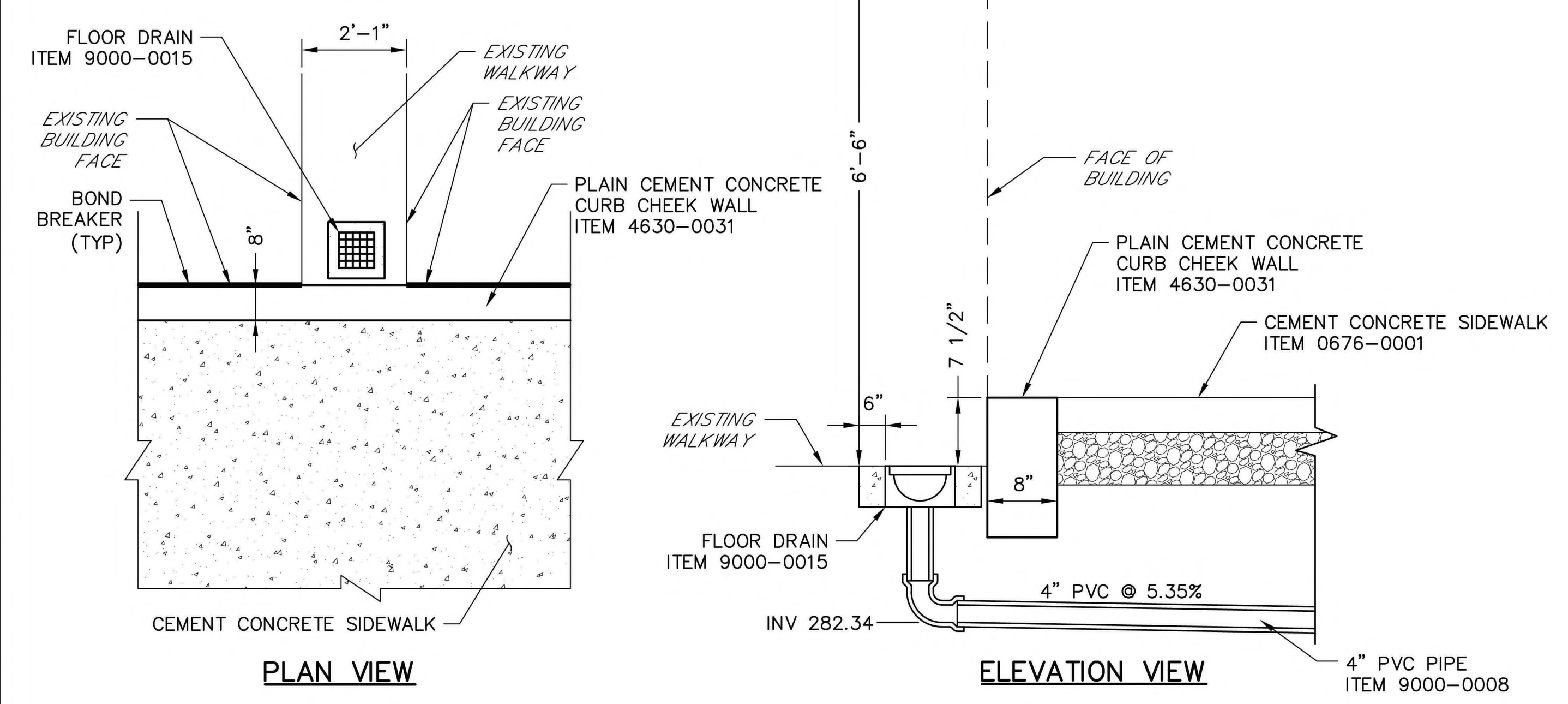
- NOTES:**
- * ADJUST RISER(S) AND TREAD(S) AS NECESSARY TO FIT FIELD CONDITIONS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. USE UNIFORM RISER AND TREAD DIMENSIONS FOR MULTIPLE STEPS.
 - ** SUBBASE MATERIAL UNDER STAIRS IS INCIDENTAL TO THAT ITEM.
 - *** STAIR HANDRAIL TO MEET BUILDING CODE REQUIREMENTS.



ISOMETRIC VIEW

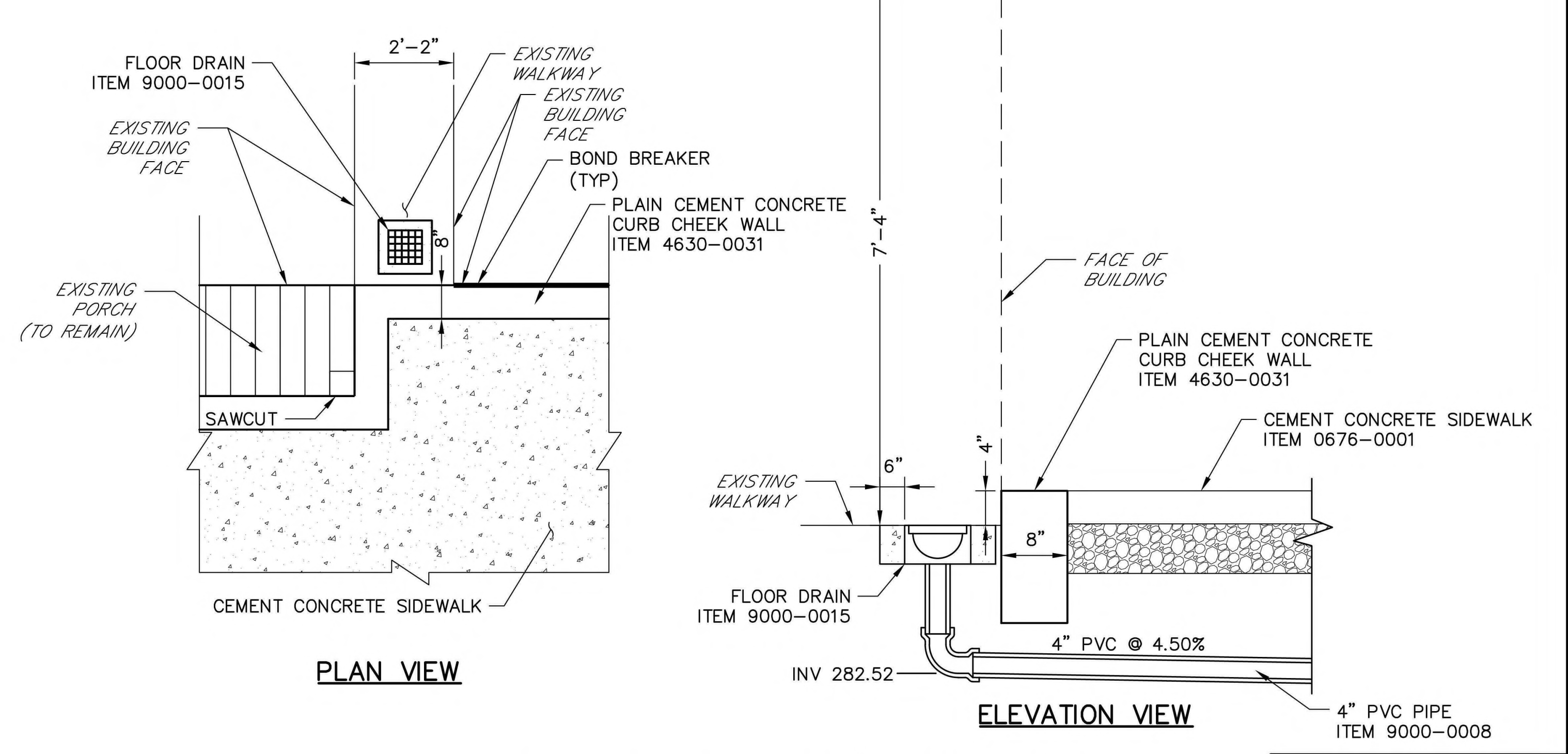


ISOMETRIC VIEW



PEDESTRIAN ALLEY ACCESS STA 3+50 LT

NOT TO SCALE



PEDESTRIAN ALLEY ACCESS STA 3+46 RT

NOT TO SCALE

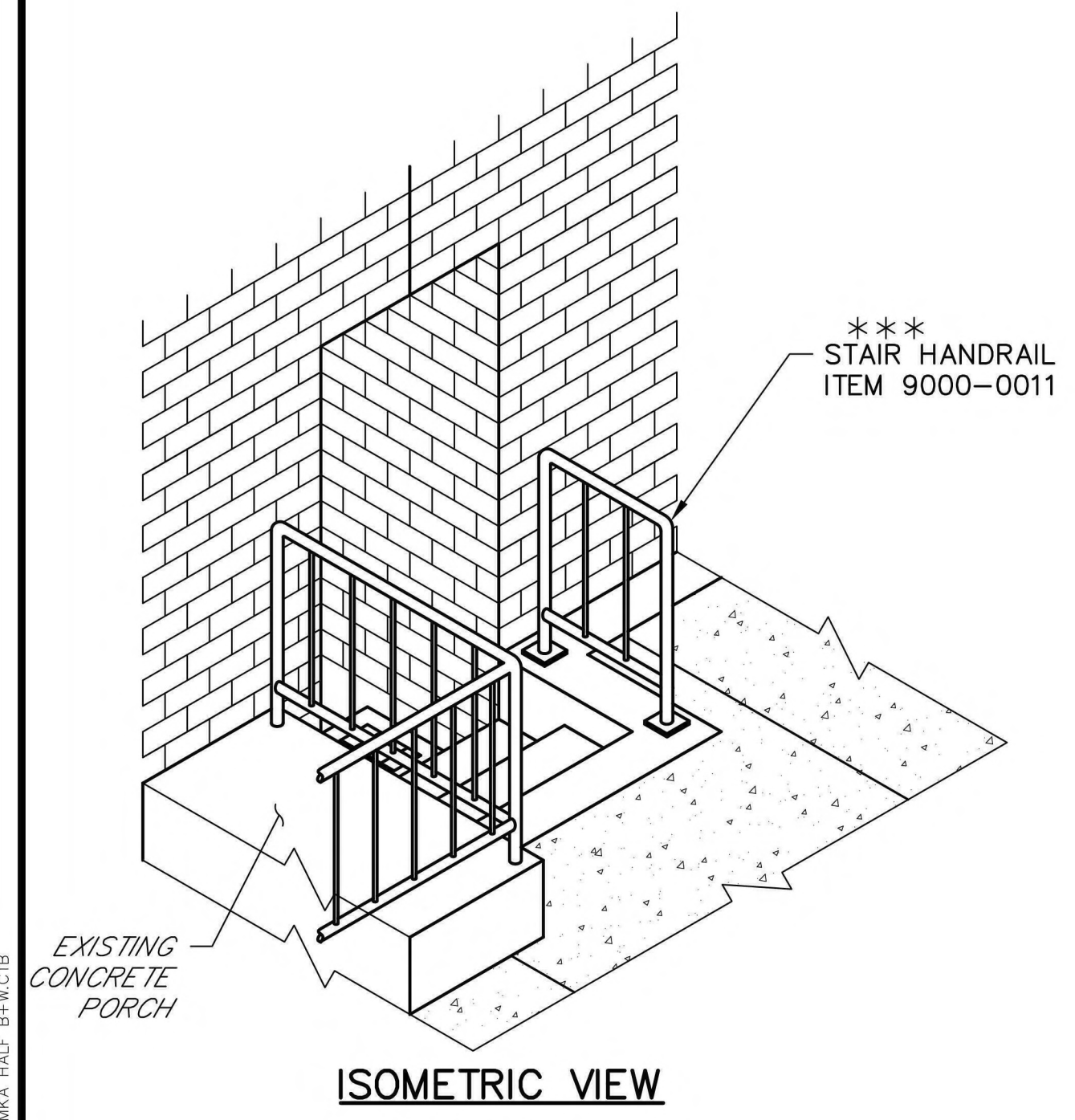


DETAILS

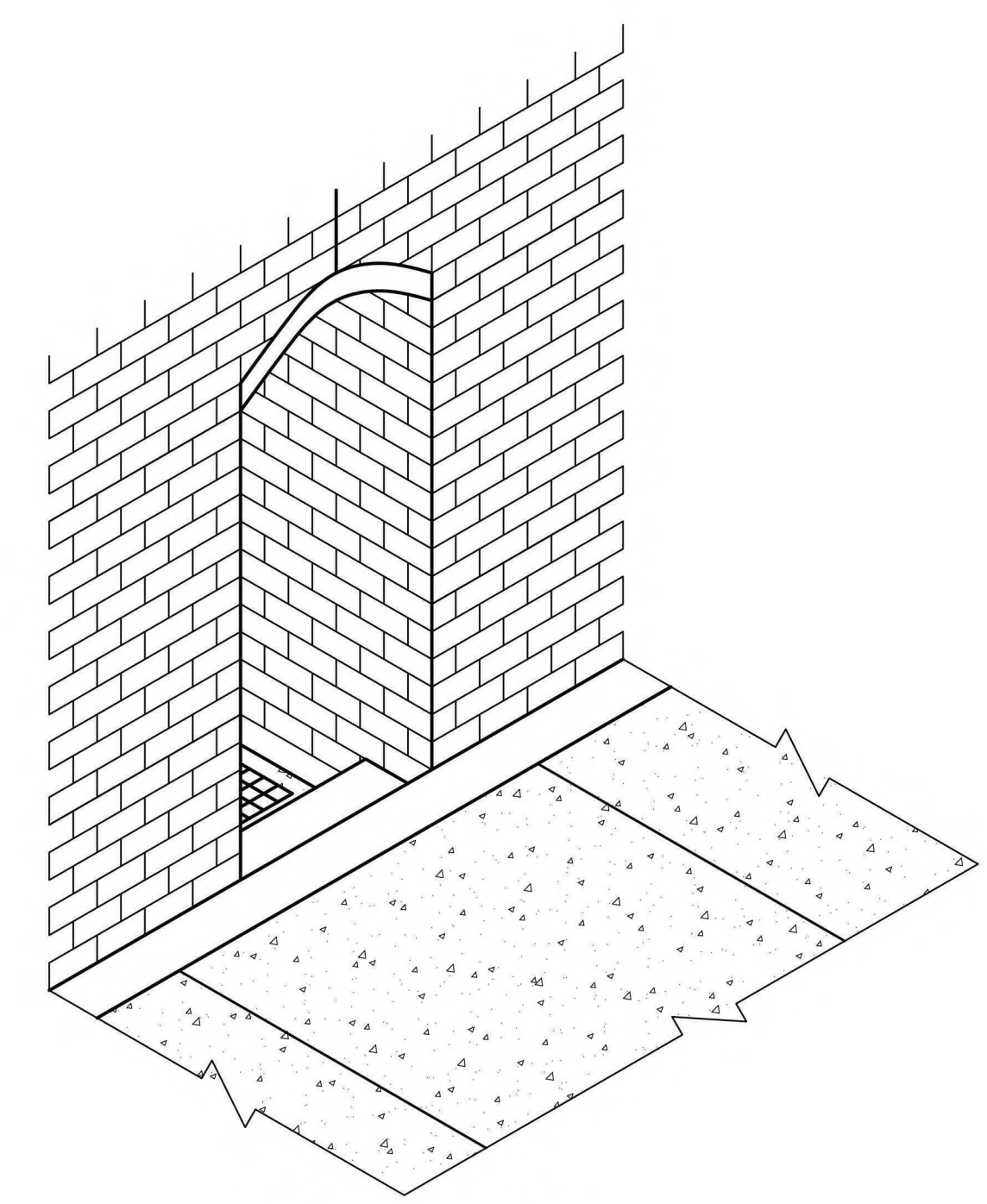
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	38 OF 63
CITY OF READING				
REVISIONS			DATE	BY

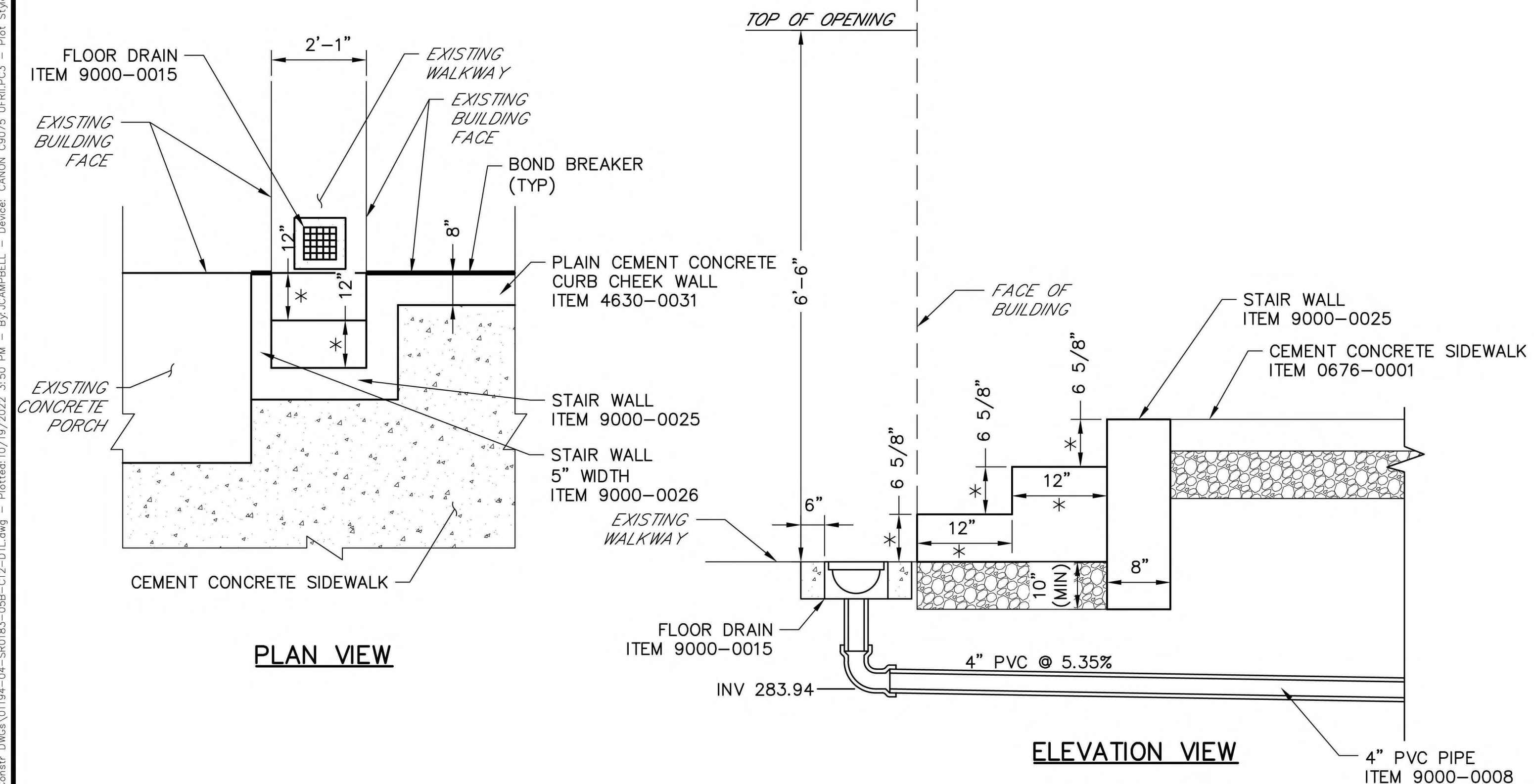
- NOTES:**
- * ADJUST RISER(S) AND TREAD(S) AS NECESSARY TO FIT FIELD CONDITIONS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. USE UNIFORM RISER AND TREAD DIMENSIONS FOR MULTIPLE STEPS.
 - ** SUBBASE MATERIAL UNDER STAIRS IS INCIDENTAL TO THAT ITEM.
 - *** STAIR HANDRAIL TO MEET BUILDING CODE REQUIREMENTS.



ISOMETRIC VIEW

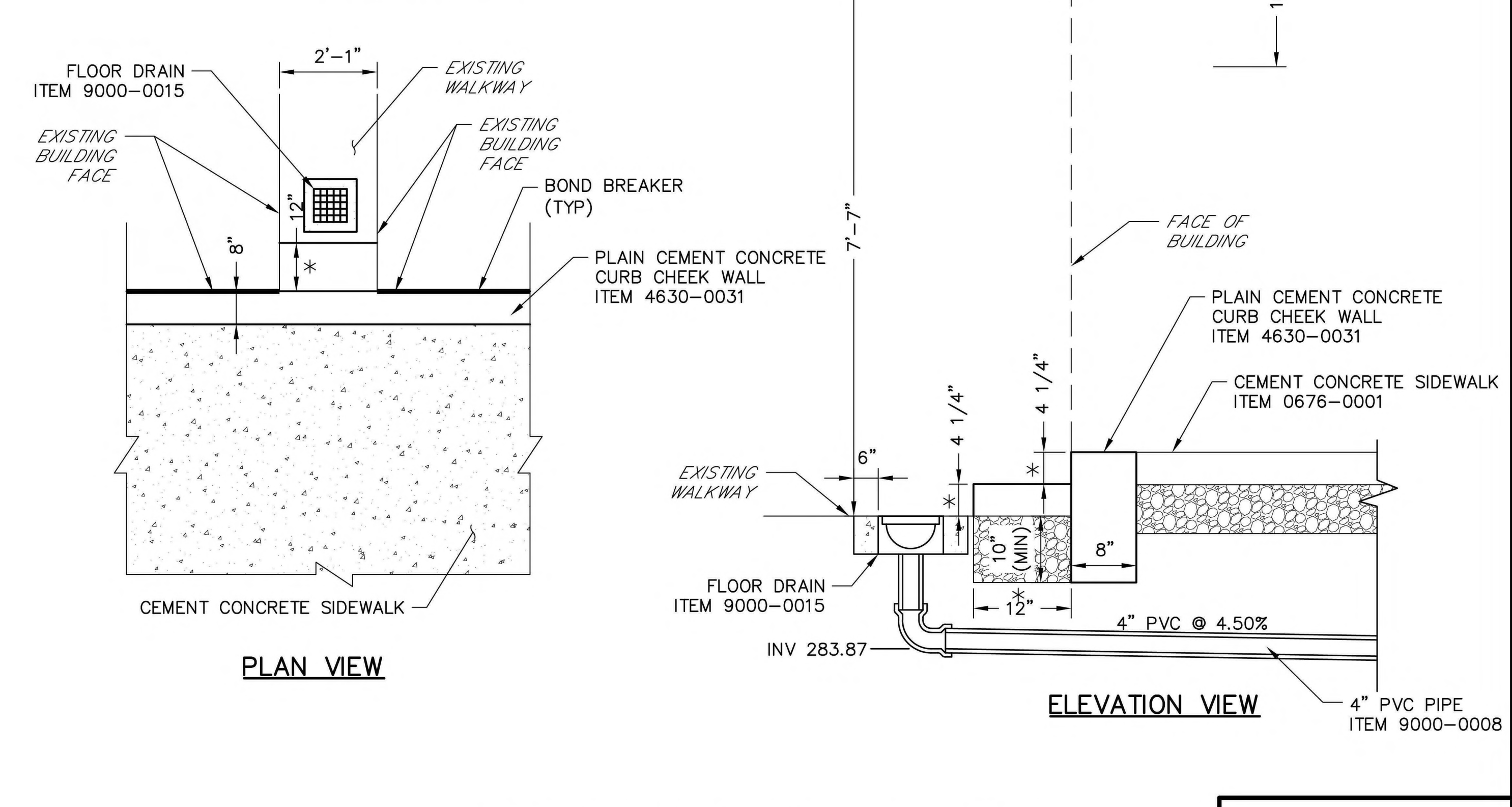


ISOMETRIC VIEW



PEDESTRIAN ALLEY ACCESS STA 3+77 LT

NOT TO SCALE



PEDESTRIAN ALLEY ACCESS STA 3+76 RT

NOT TO SCALE

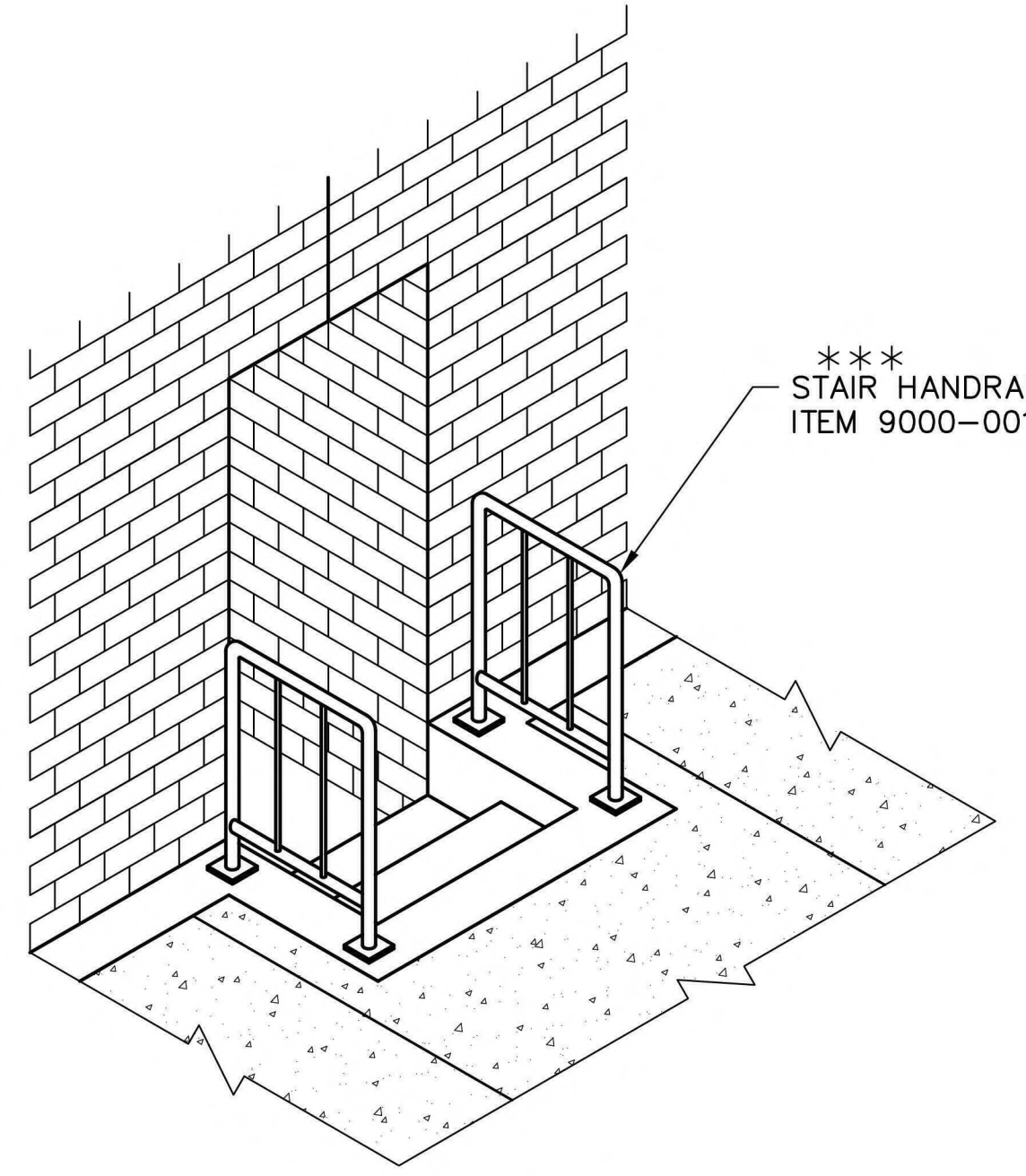


DETAILS

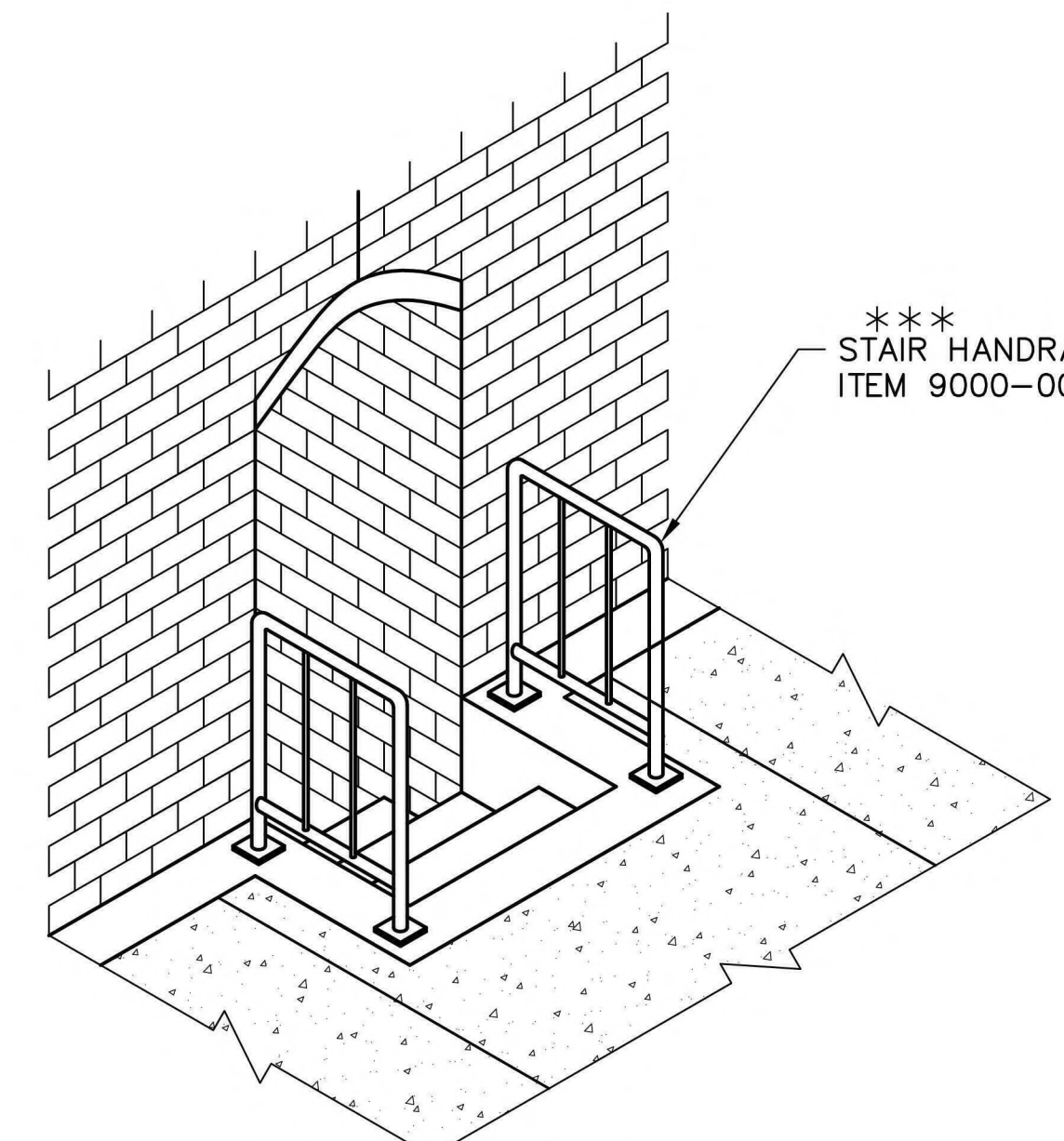
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	39 OF 63
CITY OF READING				
REVISIONS			DATE	BY

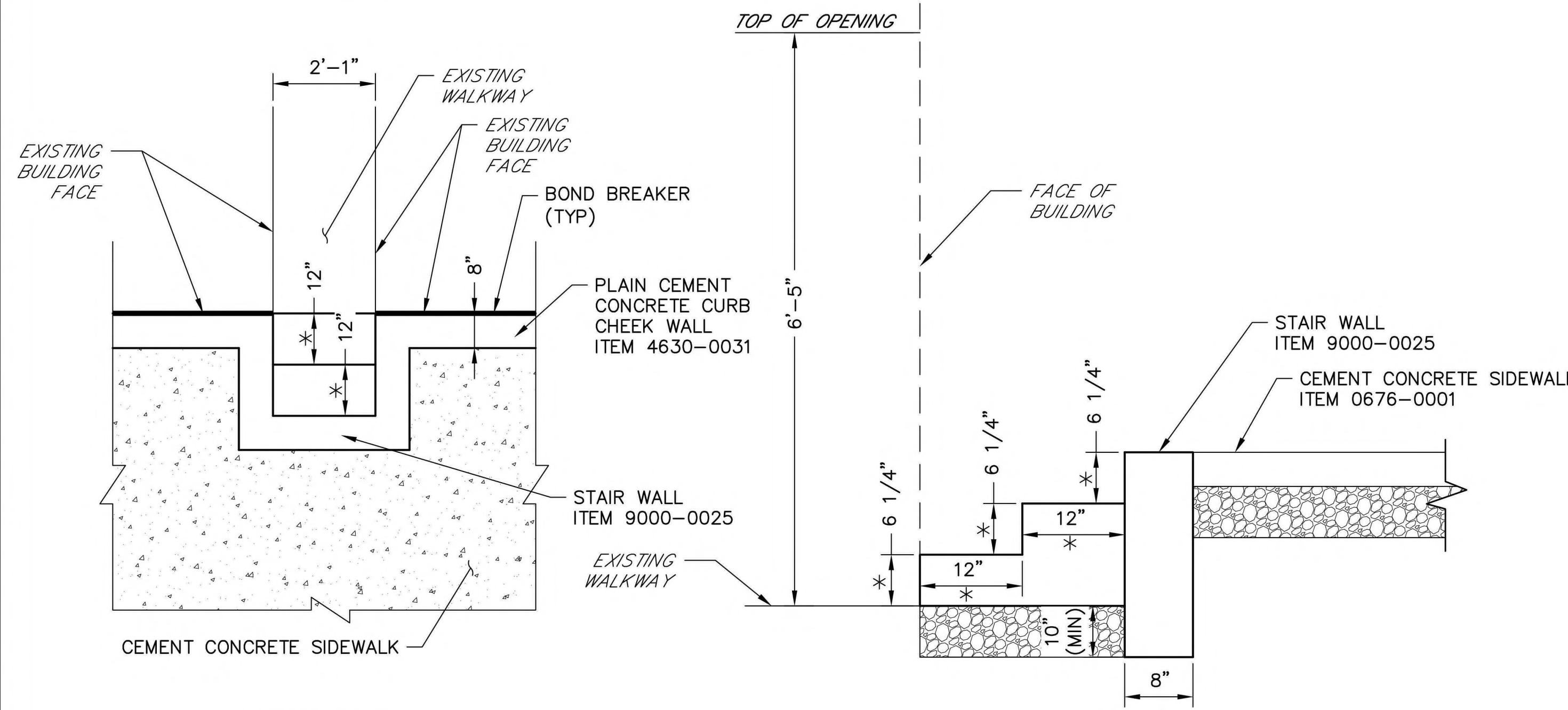
- NOTES:**
- * ADJUST RISER(S) AND TREAD(S) AS NECESSARY TO FIT FIELD CONDITIONS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. USE UNIFORM RISER AND TREAD DIMENSIONS FOR MULTIPLE STEPS.
 - ** SUBBASE MATERIAL UNDER STAIRS IS INCIDENTAL TO THAT ITEM.
 - *** STAIR HANDRAIL TO MEET BUILDING CODE REQUIREMENTS.



ISOMETRIC VIEW



ISOMETRIC VIEW

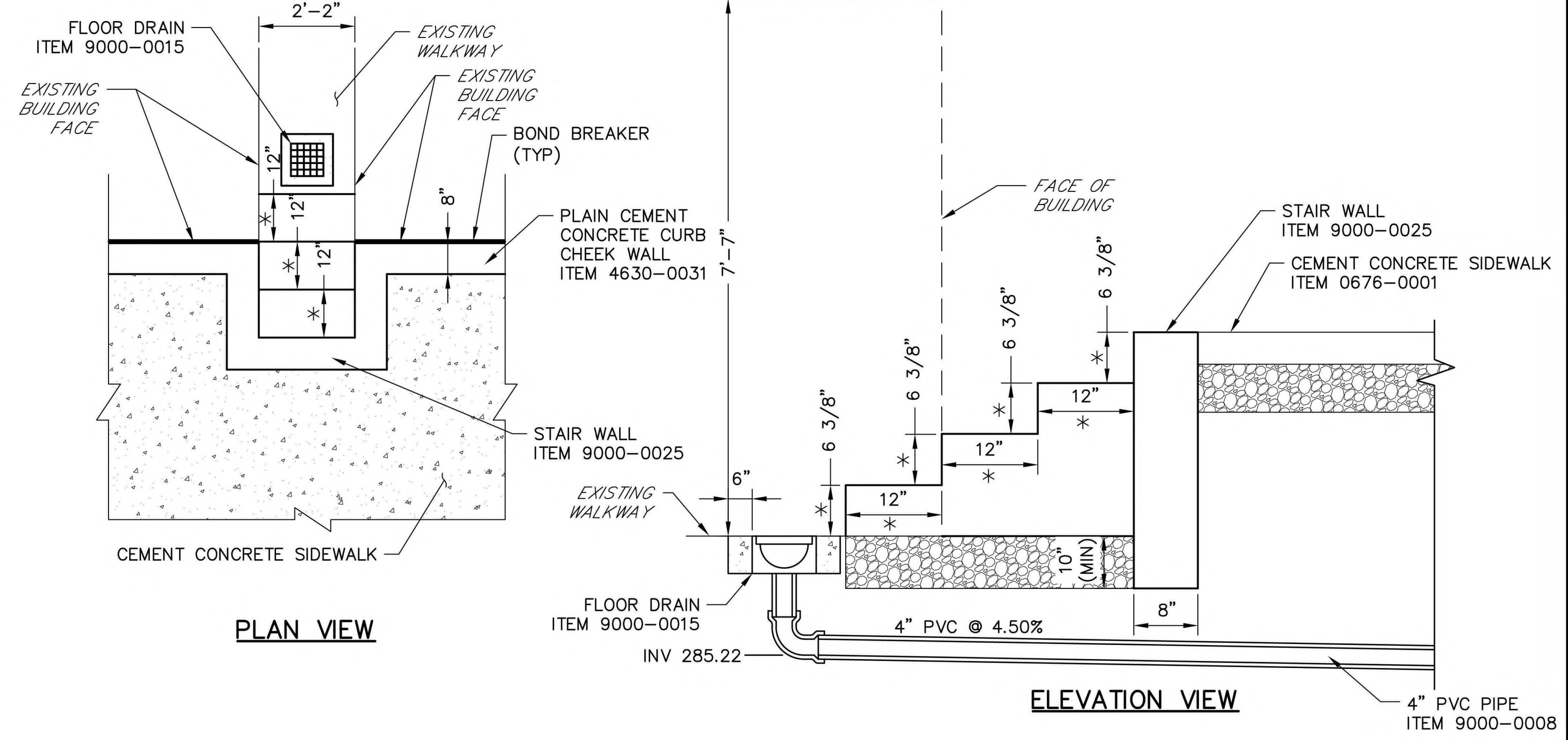


PLAN VIEW

ELEVATION VIEW

PEDESTRIAN ALLEY ACCESS STA 4+04 LT

NOT TO SCALE



PLAN VIEW

ELEVATION VIEW

PEDESTRIAN ALLEY ACCESS STA 4+06 RT

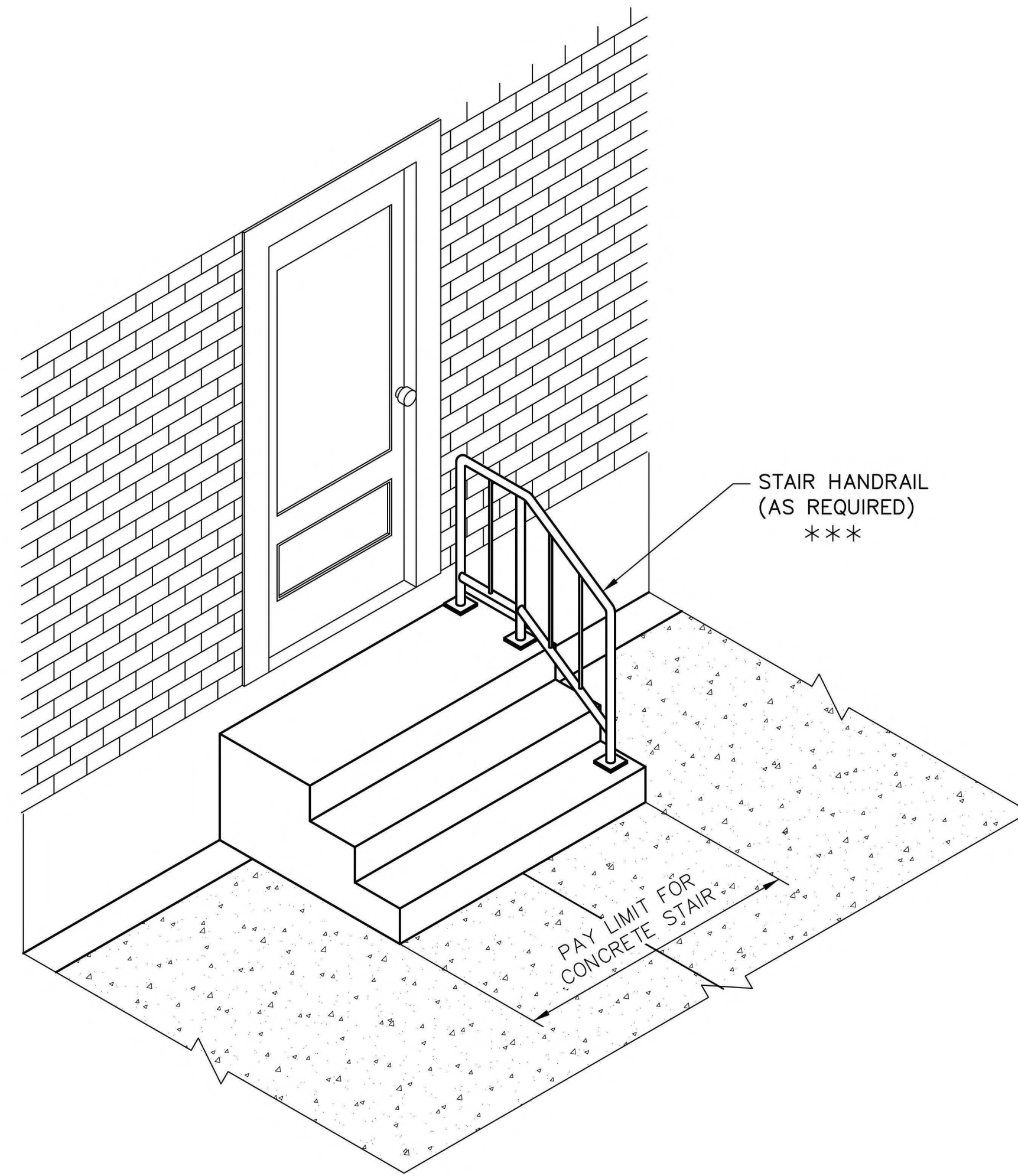
NOT TO SCALE

DETAILS

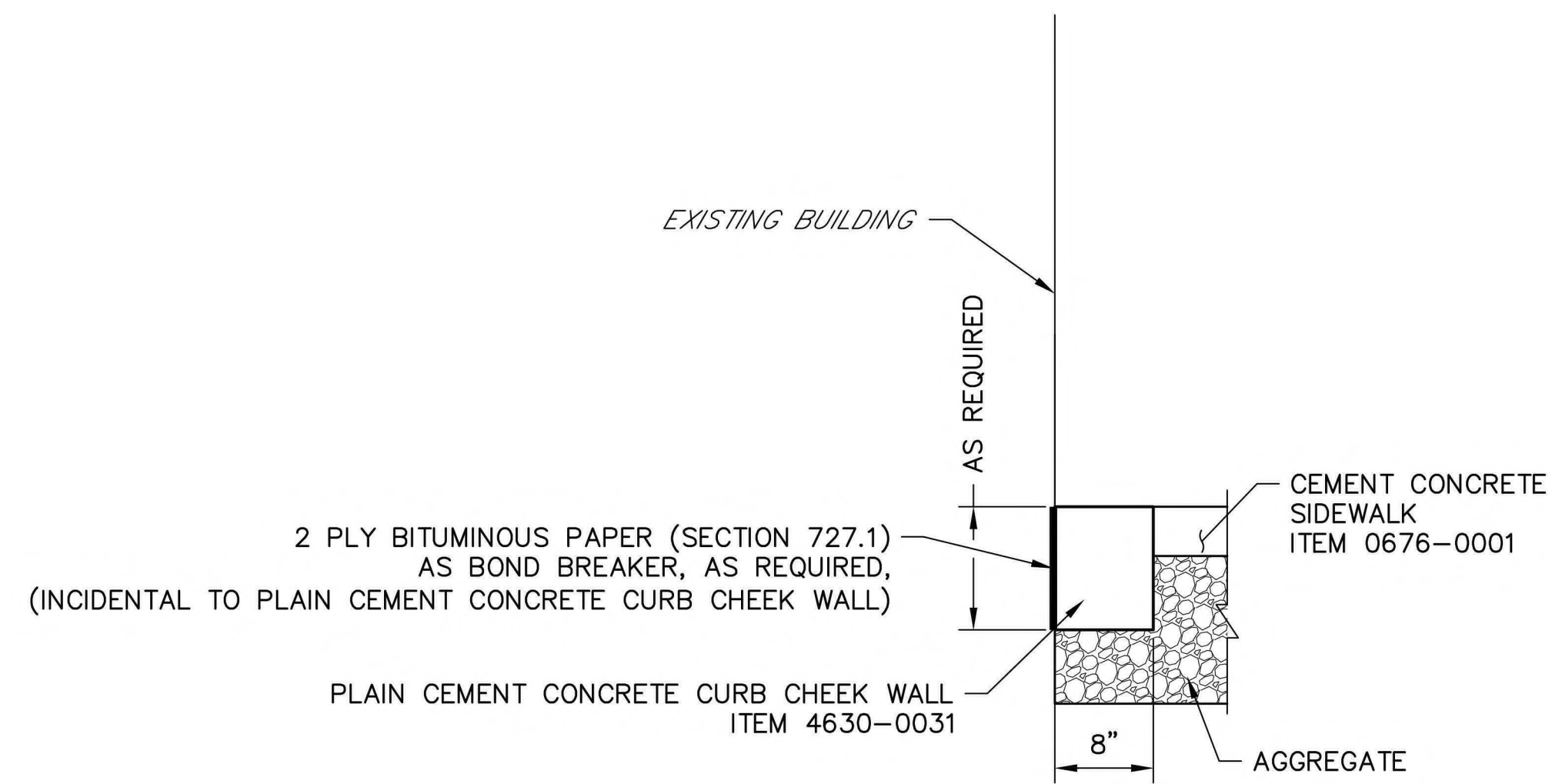


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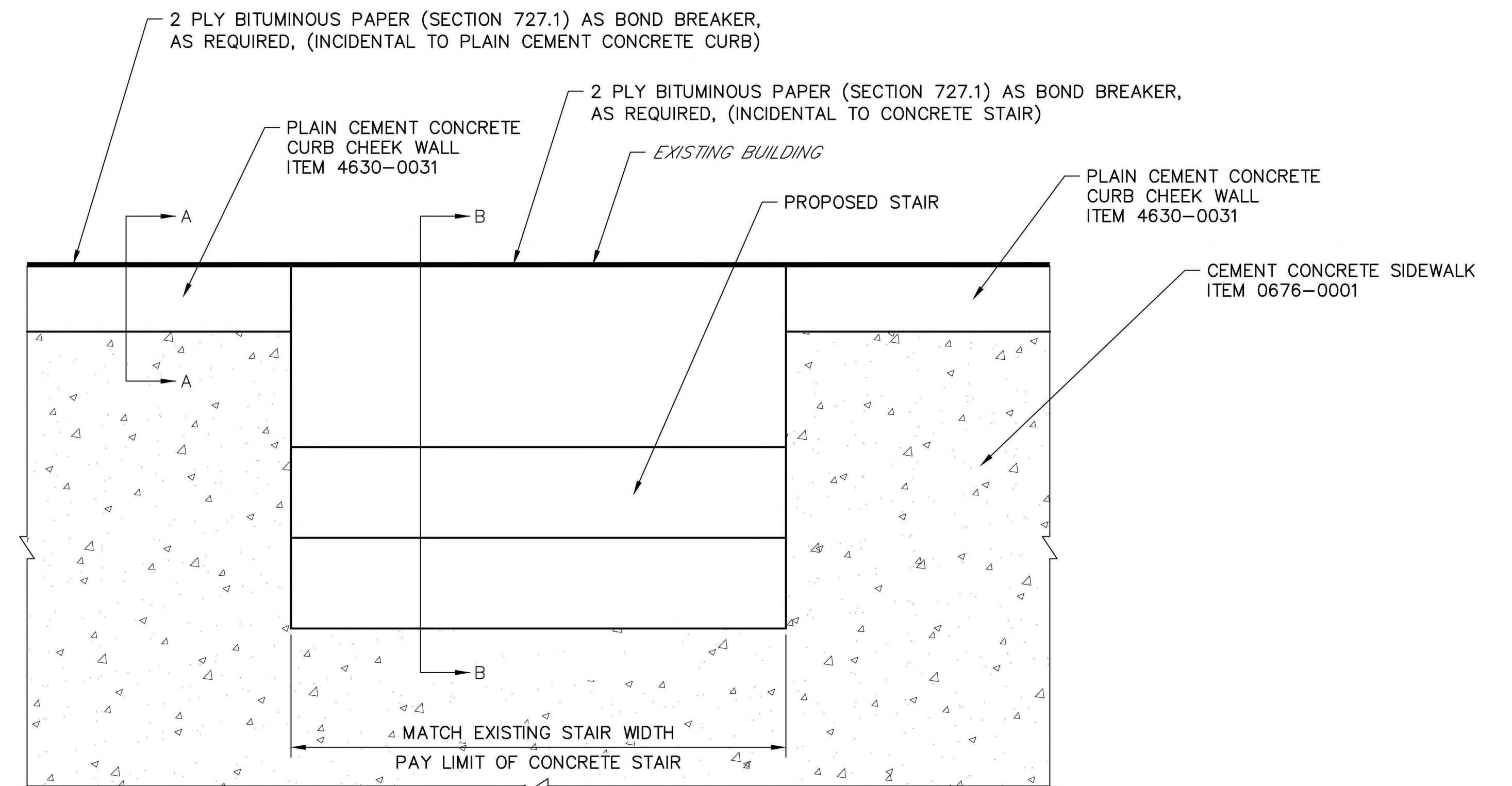
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	40 OF 63
CITY OF READING				
REVISIONS			DATE	BY



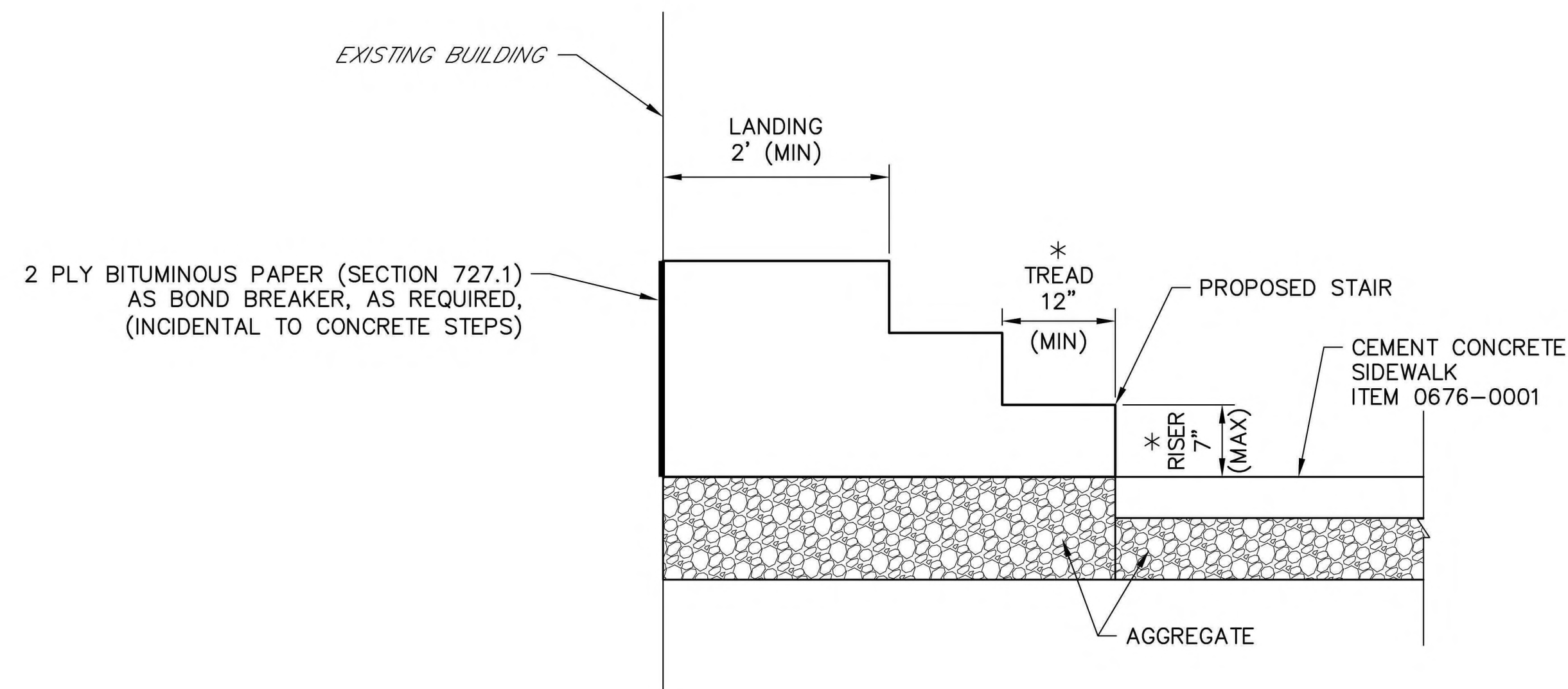
ISOMETRIC VIEW



SECTION A-A



PLAN VIEW



SECTION B-B

NOTES:

- * ADJUST RISER(S) AND TREAD(S) AS NECESSARY TO FIT FIELD CONDITIONS IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. USE UNIFORM RISER AND TREAD DIMENSIONS FOR MULTIPLE STEPS.
- ** SUBBASE MATERIAL UNDER STAIRS IS INCIDENTAL TO THAT ITEM.
- *** STAIR HANDRAIL TO MEET BUILDING CODE REQUIREMENTS.

CONCRETE STAIR

NOT TO SCALE
ITEM 9000-0010

STAIR HANDRAIL

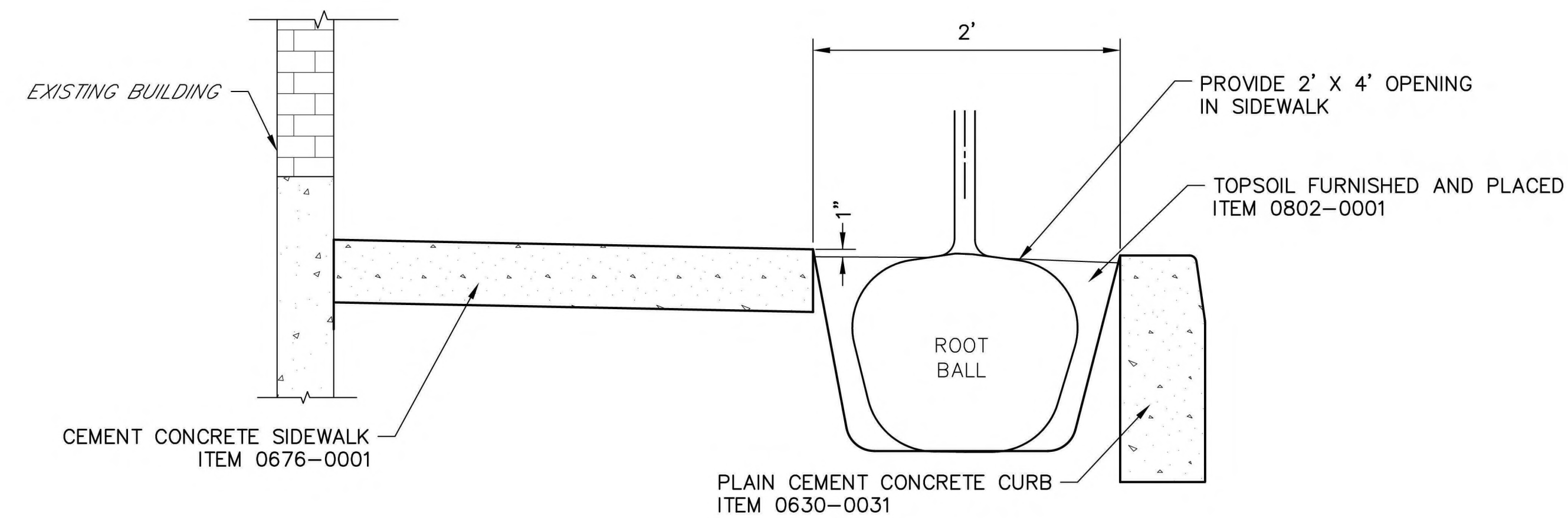
NOT TO SCALE
ITEM 9000-0011

DETAILS

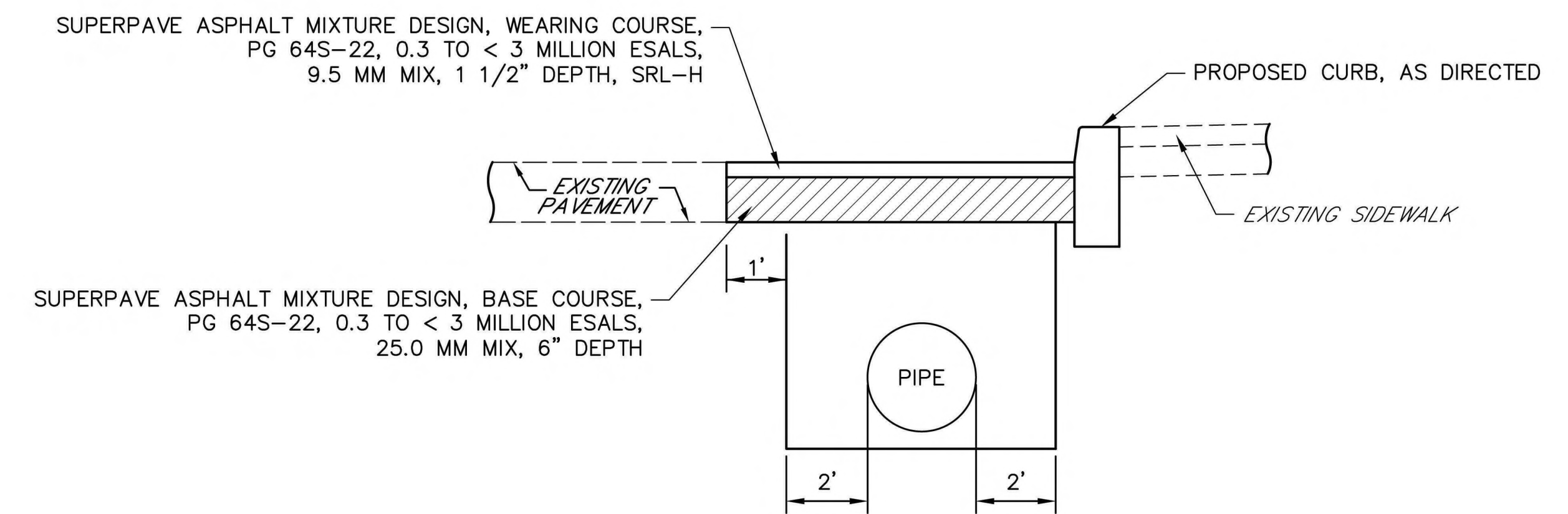


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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	41 OF 63
CITY OF READING				
REVISIONS			DATE	BY



TREE PLACEMENT
NOT TO SCALE



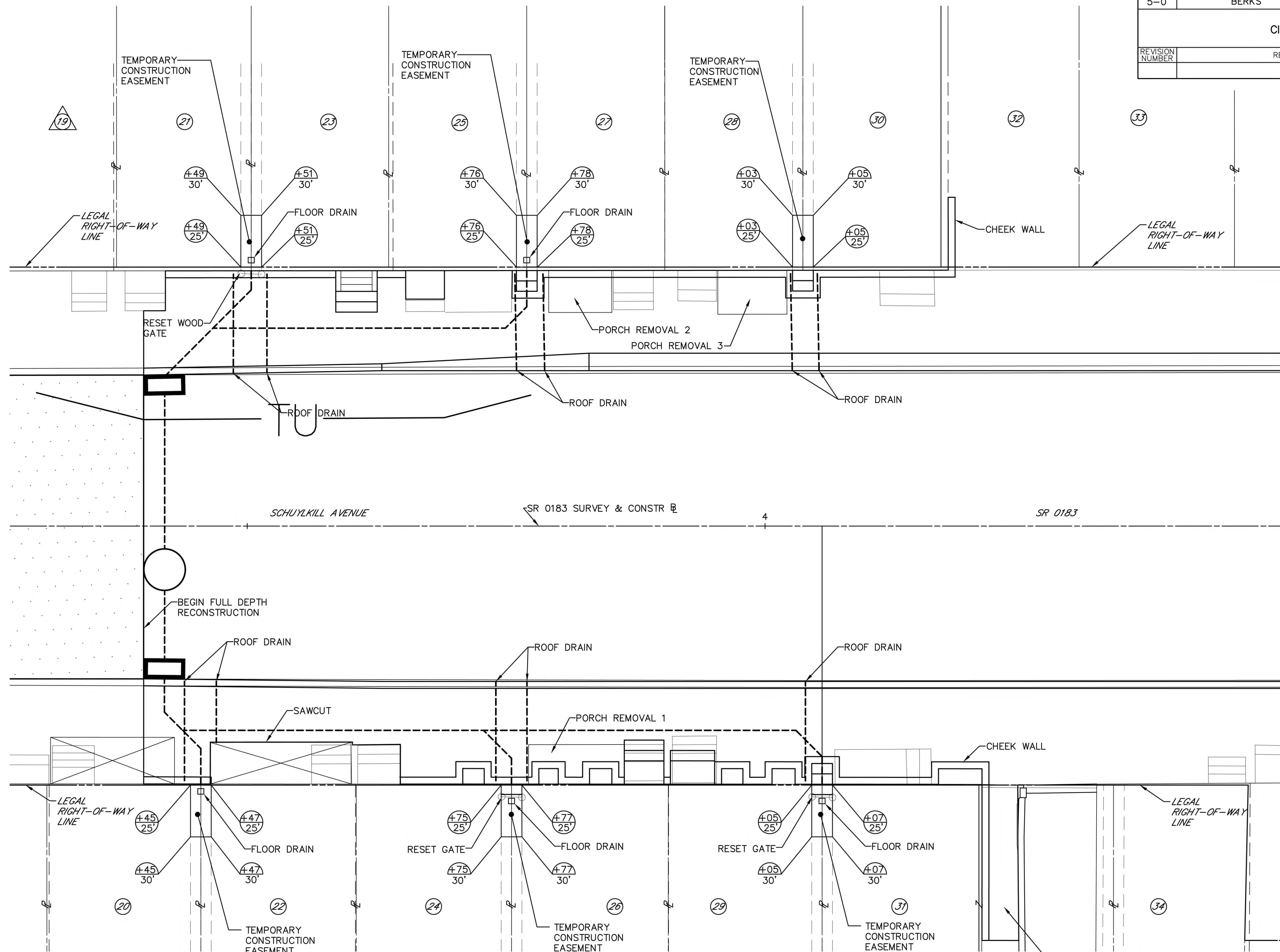
**WEST GREEN STREET
RESTORATION OF PAVEMENT OVER PIPE**
WEST GREEN STREET—STA 10+42.11 TO STA 17+52.84 LT
SR 0183—STA 7+45.45 TO STA 17+52.84 (WEST GREEN STREET) LT
NOT TO SCALE

W:\01\01194\01194-04_Sr_0183\DWG\C3D2012\Constr_DWG\01194-04-SR0183-059-C12-DTL.dwg - Plotted: 10/19/2022 3:50 PM - By: JCAMPBELL - Device: CANON C3025 IFLIP1C3 - Plot Style: MCA HALF B+W.CTB

DETAILS



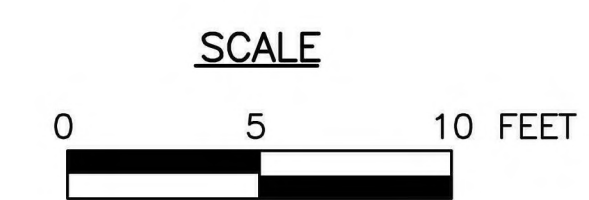
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	42 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



LEGEND
 SCALED DIMENSION

NOTES:

THE ENLARGEMENT IS FOR THE PURPOSES OF MORE CLEARLY ILLUSTRATING THE TEMPORARY CONSTRUCTION EASEMENTS AND THE PROPOSED STAIR/CHEEK WALL CONSTRUCTION, THEREFORE NOT ALL OF THE EXISTING TOPOGRAPHY IS SHOWN.



PEDESTRIAN ALLEY, STAIR, CHEEK WALL DETAILS



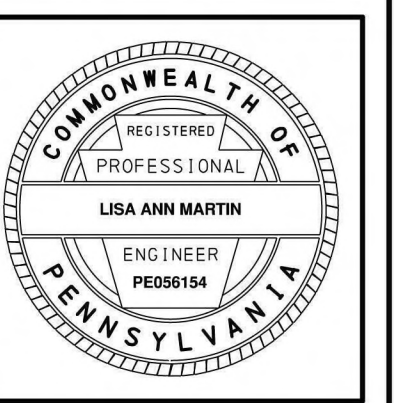
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SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	43 OF 63
CITY OF READING								

◆ - 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 LS	CLEARING AND GRUBBING		NO TAB	OR 72	0601 0560 LF	18" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	1	53-54	1292	0630 0035 LF	PLAIN CEMENT CONCRETE CURB, 6" HEIGHT, INCLUDING REMOVAL OF EXISTING CURB		55-57		0901 0001 LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION		NO TAB	
	4202 0001 LS	DEMOLITION RESIDENTIAL BUILDING 1		NO TAB	EITHER 35	0601 7517 LF	24" REINFORCED CONCRETE PIPE, TYPE A, 7' - 3' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	2	53-54	1092	0676 0001 SY	CEMENT CONCRETE SIDEWALK		55-57	100	0901 0231 DAY	ADDITIONAL WARNING LIGHTS, TYPE B		TCP	
	4202 0002 LS	DEMOLITION, BLOCK GARAGE		NO TAB	OR 35	0601 0562 LF	24" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	2	53-54	57	0676 0003 SY	SIDEWALKS AND DRIVEWAY APRONS THROUGH DRIVEWAYS		55-57	100	0901 0240 SF	ADDITIONAL TRAFFIC CONTROL SIGNS		TCP	
	4202 0003 LS	DEMOLITION RESIDENTIAL BUILDING 2		NO TAB	EITHER 38	0601 7518 LF	24" REINFORCED CONCRETE PIPE, TYPE A, 10' - 7' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	3	53-54	2	0677 0001 CY	SELECTED MATERIAL SURFACING		55-57	3770	0901 0320 LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW		TCP	
260	0203 0001 CY	CLASS 1 EXCAVATION		45-52	OR 38	0601 0562 LF	24" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	3	53-54		0686 0050 LS	CONSTRUCTION SURVEYING, TYPE D		NO TAB	765	0901 0330 LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP	
100	0203 0004 CY	CLASS 1B EXCAVATION		45-52, 55-57	4	0605 2401 SET	MANHOLE FRAME AND COVER		53-54		0689 0005 LS	CPM SCHEDULE, WITH UPDATES		NO TAB	1541	0901 0331 LF	6" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP	
1636	0203 0006 LF	SAW CUTTING		45-52, 53-54	1	0605 2761 SET	TYPE D-H LEVEL CONCRETE TOP UNIT AND BICYCLE SAFE GRATES		53-54	1000	0690 0001 DOLLA	INTERNAL FACILITATION		NO TAB	307	0901 0334 LF	24" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		TCP	
1916	0204 0001 CY	CLASS 2 EXCAVATION		53-54, 59-60	5	0605 2850 EACH	STANDARD INLET BOX, HEIGHT < / = 10'		53-54	EITHER 302	4695 0003 SF	DETECTABLE WARNING SURFACE, POLYMER CONCRETE, BRICK RED COLOR	4	55-57	112	0931 0001 SF	POST MOUNTED SIGNS, TYPE B		TCP SPMP	
1076	0204 0150 CY	CLASS 4 EXCAVATION		53-54	2	0605 2854 EACH	TYPE 4 INLET BOX, HEIGHT < / = 10'		53-54	OR 302	4695 0004 SF	DETECTABLE WARNING SURFACE, POLYMER COMPOSITE, BRICK RED COLOR	4	55-57	16	0935 0001 SF	POST MOUNTED SIGNS, TYPE F		SPMP	
517	0212 0001 LF	GEOTEXTILE, CLASS 1		53-54	1	0605 2882 EACH	TYPE D-H INLET BOX, HEIGHT < / = 10'		53-54	93	0703 0020 CY	NO. 1 COARSE AGGREGATE		59-60	30	0936 0010 SF	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS WITH STIFFENERS		TCP	
1350	0212 0014 SY	GEOTEXTILE, CLASS 4, TYPE A		59-60	4	0605 3011 EACH	TYPE 4 MANHOLE, STORM WATER, HEIGHT > 5' AND < / = 10'		53-54	972	0703 0024 CY	NO. 2A COARSE AGGREGATE		53-54	15	0936 0200 SF	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS		TCP	
13	0220 0020 CY	FLOWABLE BACKFILL, TYPE C		53-54	7	0605 5711 SET	TYPE C CONCRETE TOP UNIT, 6" CURB HEIGHT AND BICYCLE SAFE GRATE		53-54	312	0703 0026 CY	NO. 3 COARSE AGGREGATE		59-60	4	0937 0207 EACH	BARRIER MOUNTED DELINEATOR, TOP AND SIDE-MOUNT TYPE R, (Y/B)		SPMP	
1134	0313 0422 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH		45-52, 55-57		0609 0001 LS	MOBILIZATION		NO TAB	447	0802 0001 CY	TOPSOIL FURNISHED AND PLACED		45-52, 59-60	6	0937 0208 EACH	BARRIER MOUNTED DELINEATOR, TOP AND SIDE-MOUNT TYPE R, (W/B)		SPMP	
27	0313 0425 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5 1/2" DEPTH		45-52		0609 0003 LS	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B		NO TAB	27	0804 0001 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING MULCH		59-60	9	0941 0001 EACH	RESET POST MOUNTED SIGNS, TYPE B		SPMP	
160	0313 0426 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 6" DEPTH		45-52, 55-57		0609 0009 LS	EQUIPMENT PACKAGE		NO TAB	107	0804 0005 LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA N, INCLUDING MULCH		59-60	4	0945 0001 EACH	RESET POST MOUNTED SIGNS, TYPE F		SPMP	
533	0313 0429 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 7 1/2" DEPTH		53-54	517	0610 7002 LF	6" PAVEMENT BASE DRAIN		53-54	265	0804 0014 LB	SEEDING - FORMULA E		59-60	1000	0950 0002 DOLLA	UNFORESEEN TRAFFIC SIGNAL WORK		TCP	
1187	0350 0106 SY	SUBBASE 6" DEPTH (NO. 2A)		45-52, 55-57	108	4623 0052 LF	SINGLE FACE CONCRETE BARRIER, MODIFIED HEIGHT AND WIDTH		45-52	1790	0806 0121 SY	TEMPORARY EXTENDED-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 3B		59-60	2	0951 0120 EACH	TRAFFIC SIGNAL SUPPORT, 20' MAST ARM		TCP	
8	0350 0120 CY	SUBBASE (NO. 2A)		55-57	377	0624 0001 LF	RIGHT-OF-WAY FENCE, TYPE 1		58	2	0808 3428 EACH	GREEN VASE ZELKOVA - (3" CAL. B&B)		45-52	1	0951 0140 EACH	TRAFFIC SIGNAL SUPPORT, 40' MAST ARM		TCP	
5015	0413 0245 SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H		45-52, 55-57	8	0624 0300 EACH	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE		58	5	0810 0052 EACH	SELECTIVE TREE REMOVAL		45-52	1	0951 4010 EACH	TRAFFIC SIGNAL SUPPORT, 10' PEDESTAL		TCP	
995	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		45-52	3	0624 0400 EACH	CORNER POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE		58	850	0811 0003 LF	TEMPORARY PROTECTIVE FENCE		59-60	1	0952 1031 EACH	NEMA TS-2; TYPE 1 CONTROLLER ASSEMBLY, TYPE 2 MOUNTING		TCP	
3721	0460 0003 SY	ASPHALT TACK COAT (NTT/CNTT)		45-52	34	0624 0600 EACH	LINE POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE		58	2	0855 0003 EACH	PUMPED WATER FILTER BAG		59-60	1	0952 3002 EACH	CONTROLLER MODIFICATION		TCP	
3721	0491 0012 SY	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR		45-52	1	0624 0610 EACH	PEDESTRIAN GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 4-FOOT OPENING		58	2	0855 0004 EACH	REPLACEMENT PUMPED WATER FILTER BAG		59-60						
742	0601 0562 LF	24" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE		53-54	416	0630 0031 LF	PLAIN CEMENT CONCRETE CURB, 6" HEIGHT		55-57	19	0860 0002 EACH	INLET FILTER BAG FOR TYPE C INLET		59-60						
EITHER 72	0601 7509 LF	18" REINFORCED CONCRETE PIPE, TYPE A, 7' - 3' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	1	53-54	228	4630 0031 LF	PLAIN CEMENT CONCRETE CURB, CHEEK WALL		55-57	1719	0867 0018 LF	COMPOST FILTER SOCK, 18" DIAMETER		59-60						

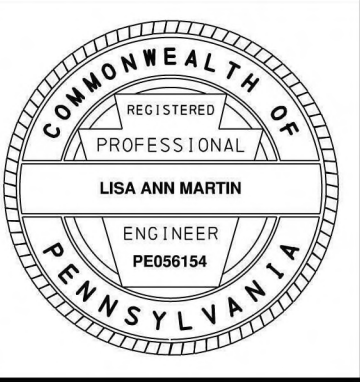


SUMMARY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	44 OF 63
CITY OF READING								

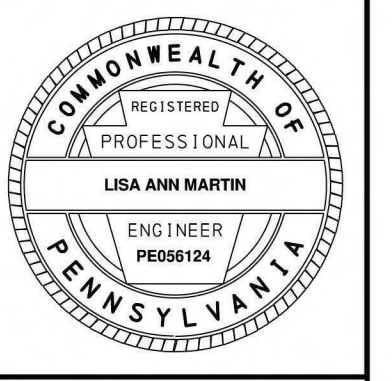
◆ - SEE SPECIAL PROVISIONS

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			
11	0954 0012 LF	2 INCH CONDUIT		TCP	144	0962 1004 LF	24" WHITE WATERBORNE PAVEMENT MARKINGS		TCP	75000	9000 0003 DOLLA	REPAIR OF LOCAL ROADS		NO TAB	267	9000 0027 CY	OVEREXCAVATION AND BACKFILLING UNDER FOUNDATION		STR
167	0954 0013 LF	3 INCH CONDUIT		TCP	3102	0962 1005 LF	4" YELLOW WATERBORNE PAVEMENT MARKINGS		SPMP TCP	X	9000 0004 LS	VIDEO LOG OF LOCAL ROADS		NO TAB	5000	9000 0028 DOLLA	TRACK MONITORING PROGRAM		STR
21	0954 0152 LF	TRENCH AND BACKFILL, TYPE II		TCP	12	0962 1025 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "ONLY", 8'-0"		TCP	X	9000 0005 LS	INSTALLATION OF READING AREA WATER AUTHORITY WATER LINE FACILITIES		NO TAB	X	9000 0029 LS	CONSTRUCTION VIBRATION MONITORING		STR
157	0954 0153 LF	TRENCH AND BACKFILL, TYPE III		TCP	1	0962 1060 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "STRAIGHT ARROW", 12'-0" X 3'-0"		TCP	14	9000 0006 VF	REBUILD EXISTING SANITARY SEWER MANHOLE		45-52	4	9000 0030 EACH	DESIGN OF CONCRETE CURB RAMPS (BY QUADRANT)		NO TAB
1738	0954 0202 LF	SIGNAL CABLE, 14 AWG, 5 CONDUCTOR		TCP	3	0962 1061 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "RIGHT ARROW", 12'-0" X 3'-0"		TCP	110	9000 0007 LF	ROOF DRAIN OUTLET		45-52	X	9000 0031 LS	SITE WORK PLAN		NO TAB
125	0954 0203 LF	SIGNAL CABLE, 14 AWG, 7 CONDUCTOR		TCP	8	0962 1062 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "LEFT ARROW", 12'-0" X 3'-0"		TCP	132	9000 0008 LF	4" PVC PIPE		45-52	X	9000 0032 LS	HEALTH AND SAFETY PLAN		NO TAB
4	0954 0302 EACH	JUNCTION BOX, JB-27		TCP	2	0962 1063 EACH	WHITE WATERBORNE PAVEMENT LEGEND, "THRU AND RIGHT ARROW", 20'-0" X 3'-7"		TCP	39	9000 0009 LF	WINDOW WELL		45-52	30000	9000 0033 DOLLA	EXCAVATED MATERIAL HANDLING AND TESTING		NO TAB
1	0954 0402 EACH	ELECTRICAL SERVICE, TYPE B		TCP	248	0963 0001 SF	PAVEMENT MARKING REMOVAL		TCP	9	9000 0010 CY	CONCRETE STAIR		45-52	100000	9000 0034 DOLLA	DISPOSAL OF REGULATED WASTE		NO TAB
11	0955 3208 EACH	VEHICULAR SIGNAL HEAD, THREE 12" SECTIONS		TCP	3677	0963 0004 LF	4" PAVEMENT MARKING REMOVAL		TCP	35	9000 0011 LF	STAIR HANDRAIL		45-52	1974	9000 0035 DOLLA	READING AREA WATER AUTHORITY (RAWA) SERVICE ABANDONMENT FEE		NO TAB
1	0955 3210 EACH	VEHICULAR SIGNAL HEAD, FIVE 12" SECTIONS		TCP	260	0963 0006 LF	6" PAVEMENT MARKING REMOVAL		TCP	14	9000 0012 EACH	PRE AND POST CONSTRUCTION SURVEY		STR	13	9000 0036 EACH	GRADE ADJUSTMENT OF EXISTING SANITARY SEWER CURB STOP		45-52
8	0955 3722 EACH	LED COUNTDOWN PEDESTRIAN SIGNAL HEAD, TYPE A		TCP	18	0963 0010 EACH	PAVEMENT MARKING REMOVAL (LEGENDS AND SYMBOLS)		TCP	241	9000 0013 LF	FENCE REMOVAL		58	2	9000 0037 EACH	RESET GATE		45-52
1	0956 0711 EACH	VIDEO DETECTION SYSTEM		TCP	2	0971 0001 EACH	REMOVE POST MOUNTED SIGNS, TYPE B		SPMP	10	9000 0014 EACH	STAIR REMOVAL		45-52	1	9000 0038 EACH	RESET WOOD DOOR		45-52
1	0958 0281 EACH	TEMPORARY TIMING ADJUSTMENTS TO EXISTING PERMANENT TRAFFIC SIGNAL CONTROLLER		TCP	2	0975 0001 EACH	REMOVE POST MOUNTED SIGNS, TYPE F		SPMP	5	9000 0015 EACH	FLOOR DRAIN		45-52	X	9000 0039 LS	PARTIAL REMOVAL AND REPAIR OF BRICK WALL		45-52
1	0958 0282 EACH	TEMPORARY TIMING ADJUSTMENTS TO EXISTING PERMANENT TRAFFIC SIGNAL CONTROLLER		TCP	X	1018 0001 LS	REMOVAL OF EXISTING BRIDGE		STR	4	9000 0016 EACH	24' CRASH GATE		59-60	1	9000 9350 EACH	POST MOUNTED DELINEATOR (YELLOW) SIGN, TYPE F, HIGH INTENSITY		SPMP
1	0958 0361 EACH	TEMPORARY MODIFICATIONS TO EXISTING PERMANENT TRAFFIC SIGNAL (4 OR MORE APPROACHES)		TCP	711	1019 0050 SY	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)		STR	1	9000 0017 EACH	BARRIER TRANSITION 1		45-52	3	9000 9351 EACH	POST MOUNTED DELINEATOR (RED) SIGN, TYPE F, HIGH INTENSITY		SPMP
1	0958 0362 EACH	TEMPORARY MODIFICATIONS TO EXISTING PERMANENT TRAFFIC SIGNAL (4 OR MORE APPROACHES)		TCP	500	1091 0335 DOLLA	EPOXY INJECTION CRACK SEAL		STR	1	9000 0018 EACH	BARRIER TRANSITION 2		45-52	X	9203 0101 LS	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM		STR
1604	0960 0005 LF	6" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS		SPMP TCP	X	8020 0001 LS	BRIDGE STRUCTURE, AS DESIGNED, S-36195		5 STR	1	9000 0019 EACH	BARRIER TRANSITION 3		45-52					
368	0960 0021 LF	24" WHITE HOT THERMOPLASTIC PAVEMENT MARKINGS		SPMP TCP	AND 290	1001 0980 SY	MECHANICAL TEXTURING WITH LONGITUDINAL SAWED GROOVES		5 STR	1	9000 0020 EACH	BARRIER TRANSITION 4		45-52					
9	0960 0101 EACH	WHITE HOT THERMOPLASTIC LEGEND, "ONLY", 8' - 0"		TCP	AND 55861	1002 0001 LB	REINFORCEMENT BARS		5 STR	1	9000 0021 EACH	PORCH REMOVAL 1		45-52					
1	0960 0220 EACH	WHITE HOT THERMOPLASTIC LEGEND, "STRAIGHT ARROW", 12' - 0" X 1' - 8"		TCP	AND 49526	1002 0052 LB	REINFORCEMENT BARS, EPOXY COATED		5 STR	1	9000 0022 EACH	PORCH REMOVAL 2		45-52					
4	0960 0222 EACH	WHITE HOT THERMOPLASTIC LEGEND, "RIGHT ARROW", 12' - 0" X 3' - 0"		TCP	X OR	8000 0001 LS	PRESTRESSED CONCRETE BRIDGE STRUCTURE		5 STR	1	9000 0023 EACH	PORCH REMOVAL 3		45-52					
4	0960 0224 EACH	WHITE HOT THERMOPLASTIC LEGEND, "LEFT ARROW", 12' - 0" X 3' - 0"		TCP	X OR	8100 0001 LS	STEEL BRIDGE STRUCTURE		5 STR	16	9000 0024 LF	PLAIN CEMENT CONCRETE CURB CHEEK WALL 4" WIDTH		55-57					
1876	0962 1000 LF	4" WHITE WATERBORNE PAVEMENT MARKINGS		SPMP TCP	1	9000 0001 EACH	TEMPORARY TRAFFIC SIGNAL MAINTENANCE		TCP	24	9000 0025 LF	STAIR WALL		55-57					
739	0962 1001 LF	6" WHITE WATERBORNE PAVEMENT MARKINGS		SPMP TCP	1	9000 0002 EACH	TEMPORARY TRAFFIC SIGNAL MAINTENANCE		TCP	3	9000 0026 LF	STAIR WALL 5" WIDTH		55-57					



TABULATION OF QUANTITIES ROADWAY

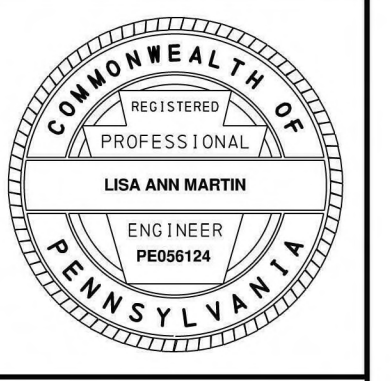
REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	45 OF 63
CITY OF READING								



CLASS 1 EXCAVATION	CLASS 1B EXCAVATION	SAW CUTTING	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5 1/2" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 6" DEPTH	SUBBASE 6" DEPTH (NO. 2A)	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	ASPHALT TACK COAT (NTT/CNTT)	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	SINGLE FACE CONCRETE BARRIER, MODIFIED HEIGHT AND WIDTH	TOPSOIL FURNISHED AND PLACED	GREEN VASE ZELKOVA - (3" CAL. B&B)	SELECTIVE TREE REMOVAL	REBUILD EXISTING SANITARY SEWER MANHOLE	ROOF DRAIN OUTLET	4" PVC PIPE	WINDOW WELL	CONCRETE STAIR	STAIR HANDRAIL	STAIR REMOVAL	FLOOR DRAIN	BARRIER TRANSITION 1	BARRIER TRANSITION 2	BARRIER TRANSITION 3	BARRIER TRANSITION 4	REMARKS	SIDE	STATIONS	
0203 0001 CY	0203 0004 CY	0203 0006 LF	0313 0422 SY	0313 0425 SY	0313 0426 SY	0350 0106 SY	0413 0245 SY	0413 0445 SY	0460 0003 SY	0491 0012 SY	4623 0052 LF	0802 0001 CY	0808 3428 EACH	0810 0052 EACH	9000 0005 VF	9000 0007 LF	9000 0008 LF	9000 0009 LF	9000 0010 CY	9000 0011 LF	9000 0014 EACH	9000 0015 EACH	9000 0017 EACH	9000 0018 EACH	9000 0019 EACH	9000 0020 EACH	ITEM NUMBER	UNIT		
	2				5	5																					SR 183 / SCHUYLKILL AVE.			
																												FULL DEPTH RECONSTRUCTION	RT	2+26.24 to 2+51.56
																													RT	2+30.00
							147			147																		MILLING AND OVERLAY	LT / RT	2+95.00 to 3+40.00
260																													LT / RT	2+95.00 to 7+15.00
			490			490		490																				FULL DEPTH RECONSTRUCTION	LT / RT	3+40.00 to 4+91.23
														1															LT	3+42.00
																	12											FLOOR DRAIN AT STA 3+45.50	RT	3+42.00 to 3+45.50
																	13.5											FLOOR DRAIN AT STA 3+50.50	LT	3+42.20 to 3+50.50
																	35.5											FLOOR DRAIN AT STA 3+75.50	RT	3+43.80 to 3+75.50
																													RT	3+46.00
		27																										SAWCUT SIDEWALK AROUND EXISTING PORCH AND STEPS	RT	3+46.00 to 3+65.00
																	34											FLOOR DRAIN AT STA 3+77.00	LT	3+46.90 to 3+77.00
																	8											ROOF DRAIN	RT	3+47.00 to 3+48.00
																	10											ROOF DRAIN	LT	3+48.70 to 3+52.90
																	8											ROOF DRAIN	RT	3+49.90
																													LT	3+50.00
																	9.5											ROOF DRAIN	LT	3+51.90
																			1	5									LT	3+58.60 to 3+62.60
																													RT	3+59.99
																													LT	3+60.55
																													RT	3+61.43
																											1	BARRIER TRANSITION 1	LT	3+63.00 to 3+83.00
																													LT	3+63.28
																			1										LT	3+65.30 to 3+69.00
																													LT	3+65.66
																													LT	3+67.17
																		4											RT	3+70.14 to 3+73.55

TABULATION OF QUANTITIES ROADWAY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	47 OF 63
CITY OF READING								

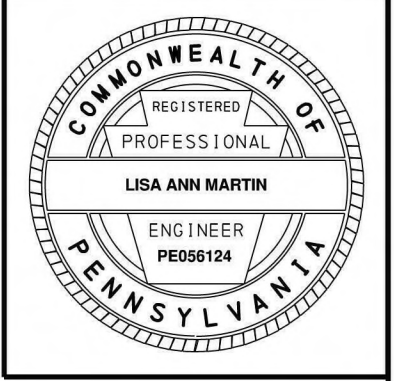


CLASS 1 EXCAVATION	CLASS 1B EXCAVATION	SAW CUTTING	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 5 1/2" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 6" DEPTH	SUBBASE 6" DEPTH (NO. 2A)	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	ASPHALT TACK COAT (NTT/CNTT)	MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY CONTRACTOR	SINGLE FACE CONCRETE BARRIER, MODIFIED HEIGHT AND WIDTH	TOPSOIL FURNISHED AND PLACED	GREEN VASE ZELKOVA (3" CAL. B&B)	SELECTIVE TREE REMOVAL	REBUILD EXISTING SANITARY SEWER MANHOLE	ROOF DRAIN OUTLET	4" PVC PIPE	WINDOW WELL	CONCRETE STAIR	STAIR HANDRAIL	STAIR REMOVAL	FLOOR DRAIN	BARRIER TRANSITION 1	BARRIER TRANSITION 2	BARRIER TRANSITION 3	BARRIER TRANSITION 4	REMARKS	SIDE	STATIONS		
0203 0001 CY	0203 0004 CY	0203 0006 LF	0313 0422 SY	0313 0425 SY	0313 0426 SY	0350 0106 SY	0413 0245 SY	0413 0445 SY	0460 0003 SY	0491 0012 SY	4623 0052 LF	0802 0001 CY	0808 3428 EACH	0810 0052 EACH	9000 0005 VF	9000 0007 LF	9000 0008 LF	9000 0008 LF	9000 0010 CY	9000 0011 LF	9000 0014 EACH	9000 0015 EACH	9000 0017 EACH	9000 0018 EACH	9000 0019 EACH	9000 0020 EACH	ITEM NUMBER	UNIT			
																36.5						1						FLOOR DRAIN AT STA 4+05.50	RT	3+72.80 to 4+05.50	
																10												ROOF DRAIN	RT	3+74.00 to 3+78.00	
																			1										RT	3+74.50 to 3+76.50	
														1															LT	3+75.00	
																8												ROOF DRAIN	LT	3+75.80 to 3+79.80	
																													RT	3+76.00	
																			1	3									LT	3+76.00 to 3+78.00	
																9.5													ROOF DRAIN	RT	3+77.00
																8													LT	3+78.80	
																													LT	3+78.80 to 4+00.90	
																													RT	3+81.87	
																													LT	3+82.16	
																		4											RT	3+82.38 to 3+85.87	
											108																		LT	3+83.00 to 4+91.00	
																			1	5									RT	3+86.40 to 3+90.20	
																					1								LT	3+87.29	
																													LT	3+88.05	
																													RT	3+88.32	
																													RT	3+89.33	
																													LT	3+90.63	
																			1	4									RT	3+90.80 to 3+95.10	
																													RT	3+90.92	
																													RT	3+93.18	
																													LT	3+93.44	
																		4											RT	3+95.13 to 3+98.53	
																													LT	3+98.77	
																		4											RT	4+00.00 to 4+03.56	
																9.5													LT	4+01.90 to 4+06.50	

TABULATION OF QUANTITIES

ROADWAY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	48 OF 63
CITY OF READING								



PORCH REMOVAL 1		PORCH REMOVAL 2		PORCH REMOVAL 3		GRADE ADJUSTMENT OF EXISTING SANITARY SEWER CURB STOP		RESET GATE		RESET WOOD DOOR		PARTIAL REMOVAL AND REPAIR OF BRICK WALL		EMBANKMENT (FOR INFORMATION ONLY)		REMARKS	SIDE	STATIONS
9000 0021 EACH	9000 0022 EACH	9000 0023 EACH	9000 0036 EACH	9000 0037 EACH	9000 0038 EACH	9000 0039 LS	INFO	ITEM NUMBER	UNIT									
																FLOOR DRAIN AT STA 4+05.50	RT	3+72.80 to 4+05.50
																ROOF DRAIN	RT	3+74.00 to 3+78.00
																	RT	3+74.50 to 3+76.50
																	LT	3+75.00
																ROOF DRAIN	LT	3+75.80 to 3+79.80
								1									RT	3+76.00
																	LT	3+76.00 to 3+78.00
																ROOF DRAIN	RT	3+77.00
																ROOF DRAIN	LT	3+78.80
																	LT	3+78.80 to 4+00.90
1																	RT	3+81.87
	1																LT	3+82.16
																	RT	3+82.38 to 3+85.87
																	LT	3+83.00 to 4+91.00
																	RT	3+86.40 to 3+90.20
																	LT	3+87.29
																	LT	3+88.05
								1									RT	3+88.32
																	RT	3+89.33
																	LT	3+90.63
																	RT	3+90.80 to 3+95.10
																	RT	3+90.92
																	RT	3+93.18
																	LT	3+93.44
																	RT	3+95.13 to 3+98.53
																	LT	3+98.77
																	RT	4+00.00 to 4+03.56
																	LT	4+01.90 to 4+06.50

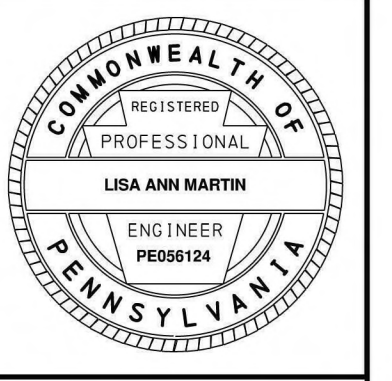
TABULATION OF QUANTITIES

DRAINAGE/PAVEMENT BASE DRAIN

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	53 OF 63
CITY OF READING								

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

SAW CUTTING	CLASS 2 EXCAVATION	CLASS 4 EXCAVATION	GEOTEXTILE, CLASS 1	FLOWABLE BACKFILL, TYPE C	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, 0.3 TO < 3 MILLION ESALS, 25.0 MM MIX, 7 1/2" DEPTH	24" THERMOPLASTIC PIPE, GROUP VII, 12'-2' FILL, SHORE/TRENCH BOX, 100 YEAR DESIGN LIFE	PIPE DESIGN 1 DESIGN NO. 1	PIPE DESIGN 2 DESIGN NO. 2	PIPE DESIGN 3 DESIGN NO. 3	MANHOLE FRAME AND COVER	TYPE D-H LEVEL CONCRETE TOP UNIT AND BICYCLE SAFE GRATES	STANDARD INLET BOX, HEIGHT < /≠ 10'	TYPE 4 INLET BOX, HEIGHT < /≠ 10'	TYPE D-H INLET BOX, HEIGHT < /≠ 10'	TYPE 4 MANHOLE, STORM WATER, HEIGHT >5' AND < /≠ 10'	TYPE C CONCRETE TOP UNIT, 6" CURB HEIGHT AND BICYCLE SAFE GRATE	6" PAVEMENT BASE DRAIN	NO. 2A COARSE AGGREGATE	MINIMUM FILL HEIGHT (FOR INFORMATION ONLY)	MAXIMUM FILL HEIGHT (FOR INFORMATION ONLY)	EMBANKMENT (FOR INFORMATION ONLY)	REMARKS	SIDE	STATIONS		
																									0203 0006 LF	0204 0001 CY
																							SR 0183 / SCHUYLKILL AVE.			
												1				1							IN108	LT	3+42.00	
												1				1							IN107	RT	3+42.00	
									1						1								MH104	RT	3+42.00	
		5.4					7													4.1	4.4		IN107 TO MH104	LT / RT	3+42.00 to 3+42.00	
		10.8					15													3.7	4.3		IN108 TO MH104	LT / RT	3+42.00 to 3+42.00	
				13																			EXISTING PIPE FILL	RT	3+44.00 to 4+50.60	
				139													139						OUTLET TO INLET	RT	3+44.00 to 4+83.00	
				146													146						OUTLET TO INLET	LT	3+44.00 to 4+90.00	
	6																					7	EXISTING MANHOLE REMOVAL	RT	4+52.60	
	19																					12	EXISTING INLET/PIPE REMOVAL	RT	4+52.60 to 4+54.60	
	91																					55	EXISTING PIPE/INLET REMOVAL	LT / RT	4+52.60 to 4+98.00	
				108																		108	OUTLET TO INLET	RT	5+71.00 to 6+79.00	
				124																		124	OUTLET TO INLET	LT	5+78.00 to 7+02.00	
											1			1									IN106	RT	6+69.70	
		25.8					22													6.0	6.1		IN106 TO IN103	RT	6+69.70 to 6+96.30	
											1					1							IN105	RT	6+79.60	
		17.7					15													6.0	6.2		IN105 TO IN103	RT	6+79.60 to 6+96.30	
											1					1							IN103	RT	6+96.30	
		49.6						35												6.2	7.0		IN103 TO IN102	LT / RT	6+96.30 to 7+03.60	
												1				1							IN102	LT	7+03.60	
		65.3																		7.3	8.4		IN102 TO MH103	LT	7+03.60 to 7+45.40	
											1					1							IN104	RT	7+11.60	
		14.5					13													5.6	6.0		IN104 TO IN103	RT	7+11.60 to 6+96.30	
61																							IN102 TO MH103	LT	7+15.00 to 7+45.40	
									1							1							MH103	LT	7+45.40	
		80.1																		8.5	8.6		MH103 TO IN101 (W. GREENT ST.)	LT	7+45.40 to 17+52.80	
																							W. GREEN ST.			

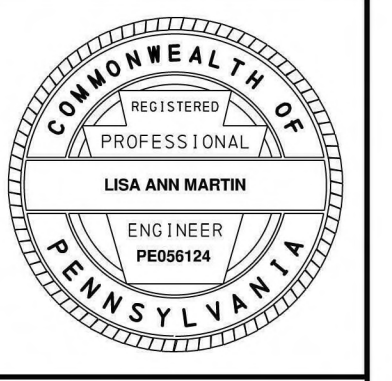


TABULATION OF QUANTITIES

CURB/ADA RAMPS/SIDEWALK/DRIVEWAYS

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	55 OF 63
CITY OF READING								



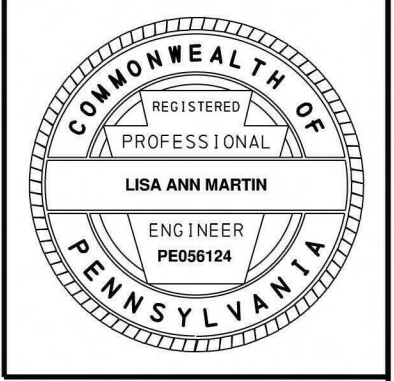
CLASS 1B EXCAVATION		REMARKS	SIDE	STATIONS																
0203 0004 CY	0313 0422 SY				0313 0426 SY	0350 0106 SY	0350 0120 CY	0413 0245 SY	0630 0031 LF	0630 0035 LF	0676 0001 SY	0676 0003 SY	0677 0001 CY	4695 (+) SF	9000 0024 LF	9000 0025 LF	9000 0026 LF	ITEM NUMBER	UNIT	
																		SR 0183 / SCHUYLKILL AVE.		
11	32		32		32	28			17	13								DRIVEWAY ADJUSTMENT D1	RT	2+23.96 to 2+56.33
							26												RT	2+26.24 to 2+51.56
								2											RT	3+40.00 to 3+42.90
							7												RT	3+40.00 to 3+46.50
								8											LT	3+40.00 to 3+47.10
						23													LT	3+40.00 to 3+63.00
						123													RT	3+40.00 to 4+63.00
							17												LT	3+42.10 to 3+58.60
								18											RT	3+48.00 to 3+73.00
								16											LT	3+52.90 to 3+74.80
							3												LT	3+62.60 to 3+65.30
							6												RT	3+64.70 to 3+70.10
							4												RT	3+73.60 to 3+77.50
														3					LT	3+75.80 to 3+76.00
													6						LT	3+76.00 to 3+78.70
								19											RT	3+78.00 to 4+02.70
							24												LT	3+78.70 to 4+02.00
								18											LT	3+78.80 to 4+00.90
							2												RT	3+80.70 to 3+82.40
							1												RT	3+85.90 to 3+86.40
							1												RT	3+90.20 to 3+90.90
							5												RT	3+95.50 to 4+00.00
													9						LT	4+02.00 to 4+05.30
							1												RT	4+03.60 to 4+03.80
													9						RT	4+03.80 to 4+07.20
								70											RT	4+04.70 to 4+83.70
						21													LT	4+05.30 to 4+18.40

TABULATION OF QUANTITIES

CURB/ADA RAMPS/SIDEWALK/DRIVEWAYS

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	56 OF 63
CITY OF READING								



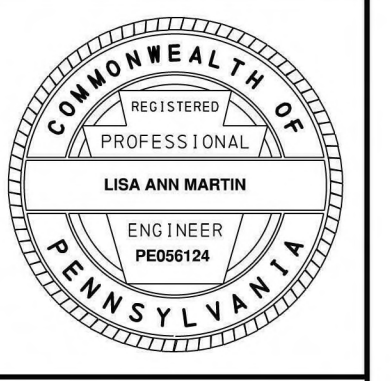
CLASS 1B EXCAVATION	0203 0004 CY	0313 0422 SY	0313 0426 SY	0350 0106 SY	0350 0120 CY	0413 0245 SY	0630 0031 LF	4630 0031 LF	0630 0035 LF	0676 0001 SY	0676 0003 SY	0677 0001 CY	4695 (+) SF	9000 0024 LF	9000 0025 LF	9000 0026 LF	REMARKS	SIDE	STATIONS	
																				ITEM NUMBER
										71								LT	4+06.50 to 4+92.80	
								9										RT	4+07.20 to 4+16.10	
								5										RT	4+21.60	
										67								RT	5+68.60 to 6+48.50	
										62								LT	5+77.60 to 6+48.00	
									127									RT	5+91.00 to 7+15.00	
									115									LT	5+99.00 to 7+13.17	
17	107				8	107		27			16							DRIVEWAY ADJUSTMENT D2, 3" REVEAL ON CHEEK WALL	LT	6+44.14 to 6+86.45
								8										RT	6+49.00	
										74								RT	6+50.60 to 7+15.00	
								59										RT	6+57.00 to 7+11.00	
										49								LT	6+64.00 to 7+13.20	
								28										LT	6+86.00 to 7+14.00	
3		8	8	8	8	8		42	35				16					CR9/CR10	RT	7+10.90 to 7+41.30
2		4	4	4	4	4		20	10				16					CR1/CR2	LT	7+38.00 to 7+50.10
2		5	5	5	5	5		25	18				16					CR7/CR8	RT	7+56.60 to 7+65.60
4		10	10	10	10	10		58	48				16					CR5/CR6	RT	7+84.30 to 8+17.40
2		5	5	5	5	5		27	25				8					CR4	LT	7+96.90 to 8+29.20
																		W. GREEN ST.		
								17										AS DIRECTED	LT	10+39.48 to 10+55.80
								109										AS DIRECTED	LT	11+69.69 to 12+77.80
								116										AS DIRECTED	LT	13+22.43 to 14+38.41
								111										AS DIRECTED	LT	14+96.97 to 16+07.16
								108										AS DIRECTED	LT	16+52.16 to 17+59.24
								242											LT	0+34.28 to 2+76.13
										54									LT	0+35.50 to 1+31.50
											9	1						DRIVEWAY ADJUSTMENT D3	LT	1+31.52 to 1+47.52
										59									LT	1+47.50 to 2+51.60

TABULATION OF QUANTITIES

CURB/ADA RAMPS/SIDEWALK/DRIVEWAYS

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	57 OF 63
CITY OF READING								

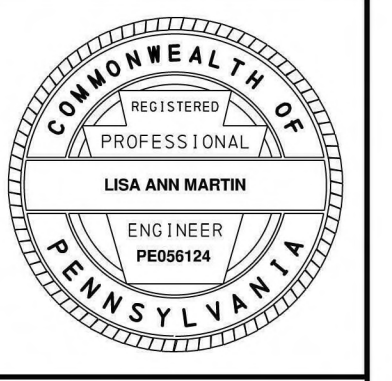


CLASS 1B EXCAVATION	0203 0004 CY	0313 0422 SY	0313 0426 SY	0350 0106 SY	0350 0120 CY	0413 0245 SY	0630 0031 LF	4630 0031 LF	0630 0035 LF	0676 0001 SY	0676 0003 SY	0677 0001 CY	4695 (+) SF	9000 0024 LF	9000 0025 LF	9000 0026 LF	REMARKS	SIDE	STATIONS		
																				ITEM NUMBER	UNIT
										17								LT	2+26.20 to 2+34.40		
										11									2+46.40 to 2+56.30		
											19	1						DRIVEWAY ADJUSTMENT D4	LT	2+51.63 to 2+67.63	
										9									LT	2+67.40 to 2+76.10	
2		6	6	6	6	6			22	15			16						D/B ADA RAMP - NW QUADRANT W. GREEN ST/GORDON ST	LT	14+45.00
3		6	6	6	6	6			25	19			16						D/B ADA RAMP - SW QUADRANT W. GREEN ST/GORDON ST	RT	14+82.00
2		6	6	6	6	6			23	16			16						D/B ADA RAMP - NW QUADRANT W. GREEN ST/MILTMORE ST	LT	16+14.00
3		6	6	6	6	6			24	16			16						D/B ADA RAMP - SE QUADRANT W. GREEN ST/MILTMORE ST	RT	16+17.00
2		4	4	4	4	4			19	13			8	16					CR3	LT	17+58.20 to 17+76.70
																			W. BUTTONWOOD ST.		
2		4	4	4	4	4			20	18			10						CR25	LT	53+00.00 to 53+19.90
1		3	3	3	3	3			14	8			8						CR24	LT	53+31.60 to 53+44.00
2		4	4	4	4	4			21	14			11						CR23	LT	54+08.00 to 54+23.00
2		5	5	5	5	5			26	22			16						CR21	LT	55+26.60 to 55+41.40
2		5	5	5	5	5			24	22			15						CR22	LT	55+43.10 to 55+62.10
3		7	7	7	7	7			37	34			16						CR20	LT	55+82.10 to 56+07.70
																			N. FRONT ST.		
2		4	4	4	4	4			20	13			9						CR19	LT	25+57.70 to 25+72.10
2		4	4	4	4	4			21	8			8						CR18	LT	26+09.10 to 26+26.30
2		4	4	4	4	4			21	32			16						CR11/CR12	LT	34+90.60 to 35+11.90
2		4	4	4	4	4			21	25			16						CR16/CR17	RT	34+92.60 to 35+11.10
2		5	5	5	5	5			26	20			16						CR14/CR15	RT	35+42.80 to 35+62.10
2		5	5	5	5	5			27	20			17						CR13	LT	35+42.80 to 35+63.50
77	139	114	146	8	253	416	228	1292	1092	57	2	302	16	24	3				TOTALS		

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				05	BERKS	183	05B	59 OF 63
CITY OF READING								



CLASS 2 EXCAVATION	NO. 1 COARSE AGGREGATE	NO. 3 COARSE AGGREGATE	TOPSOIL FURNISHED AND PLACED	SEEDING AND SOIL SUPPLEMENTS - FORMULA B, INCLUDING MULCH	SEEDING AND SOIL SUPPLEMENTS - FORMULA N, INCLUDING MULCH	SEEDING - FORMULA E	TEMPORARY EXTENDED-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 3B	TEMPORARY PROTECTIVE FENCE	PUMPED WATER FILTER BAG	REPLACEMENT PUMPED WATER FILTER BAG	INLET FILTER BAG FOR TYPE C INLET	COMPOST FILTER SOCK, 18" DIAMETER	24' CRASH GATE	REMARKS	SIDE	STATIONS
0204 0001 CY	0212 0014 SY	0703 0020 CY	0802 0001 CY	0804 0001 LB	0804 0005 LB	0804 0014 LB	0806 0121 SY	0811 0003 LF	0855 0003 EACH	0855 0004 EACH	0860 0002 EACH	0867 0018 LF	9000 0016 EACH			
														SCHUYLKILL AVE.		
											1			EX INLET	LT	0+32.20
											1			EX INLET	RT	0+35.49
											1			EX INLET	LT	0+40.01
											1			EX INLET	RT	0+42.32
												98			RT	2+04.08
									1	1					LT	4+11.01
				27											LT / RT	4+16.99 to 6+11.00
			445			265									LT / RT	4+16.99 to 7+59.43
							1790								LT / RT	4+24.62 to 7+37.97
											102				RT	4+35.21
											180				LT	4+47.68
											94				LT	4+51.51
	102	25												RCE #2	RT	4+51.84
											1			EX INLET	LT	4+54.53
											96				RT	4+66.79
						107									LT / RT	4+69.08 to 7+59.43
1800															LT	4+73.61 to 7+52.50
											1			EX INLET	RT	4+98.03
											24				RT	4+99.41
	168	35												RCE #1	LT	5+09.78
	220		74									2		SW ACCESS ROAD	LT	5+09.88
											258				LT / RT	5+27.85
								210							LT / RT	5+36.00
											95				LT / RT	5+52.56
											26				RT	5+57.69
								640							LT / RT	6+12.30
											566				LT	6+16.88

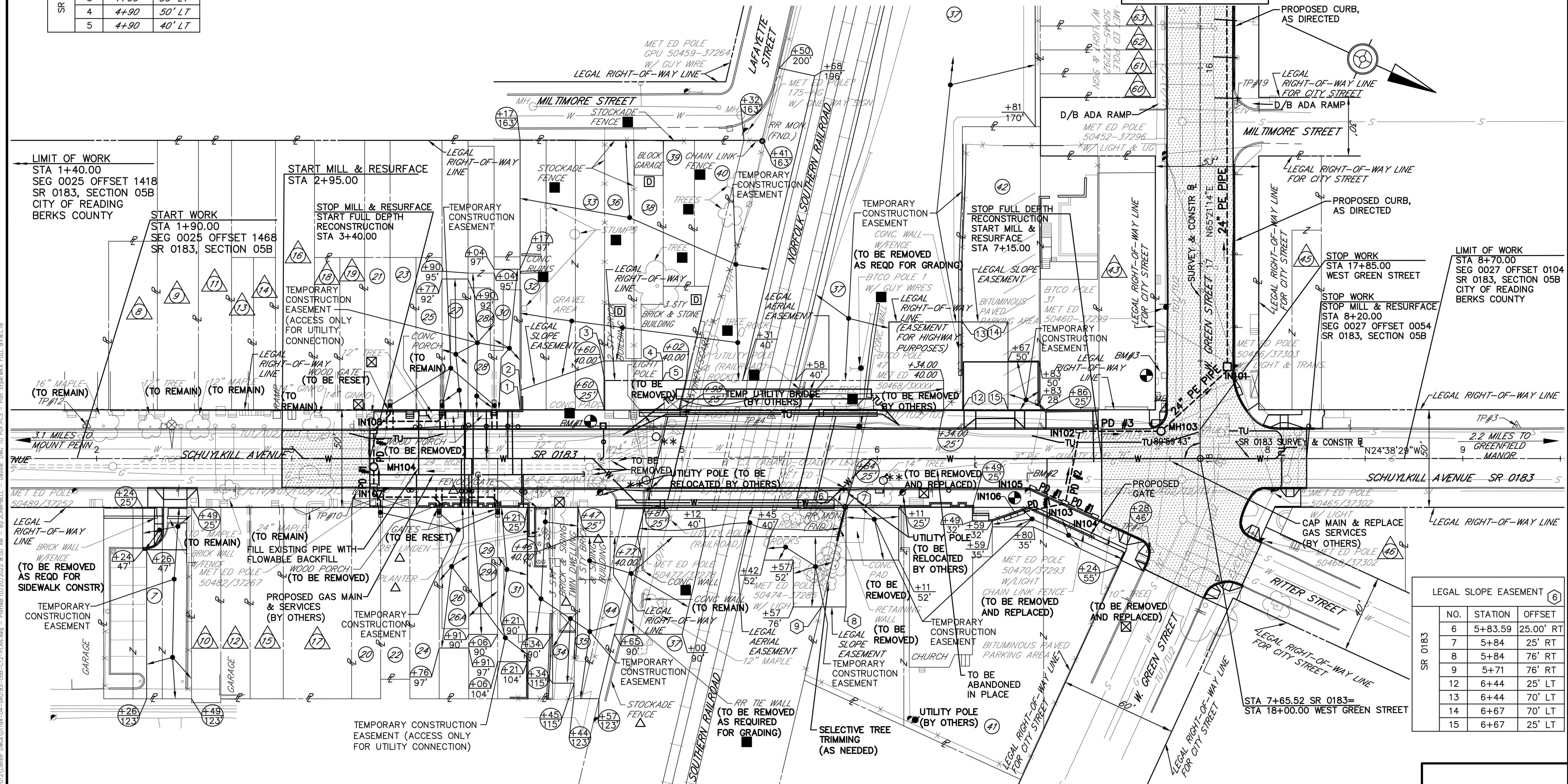
LEGAL SLOPE EASEMENT ①			
NO.	STATION	OFFSET	
1	4+17	25' LT	
2	4+17	35' LT	
3	4+60	50' LT	
4	4+90	50' LT	
5	4+90	40' LT	

BM#1 = ELEV 290.42
16.7' LT STA 4+60
TOP OF FIRE HYDRANT

BM#2 = ELEV 291.59
16.0' RT STA 6+77
MAG NAIL SET IN SOUTHWESTERLY BASE OF
MET ED POLE 59470/37293

BM#3 = ELEV 293.55
18.5' RT STA 17+58
TOP OF FIRE HYDRANT

SEE SHEET 62



LIMIT OF WORK
STA 1+40.00
SEG 0025 OFFSET 1418
SR 0183, SECTION 05B
CITY OF READING
BERKS COUNTY

START WORK
STA 1+90.00
SEG 0025 OFFSET 1468
SR 0183, SECTION 05B

START MILL & RESURFACE
STA 2+95.00

STOP MILL & RESURFACE
START FULL DEPTH
RECONSTRUCTION
STA 3+40.00

STOP WORK
STA 17+85.00
WEST GREEN STREET

STOP WORK
STOP MILL & RESURFACE
STA 8+20.00
SEG 0027 OFFSET 0054
SR 0183, SECTION 05B

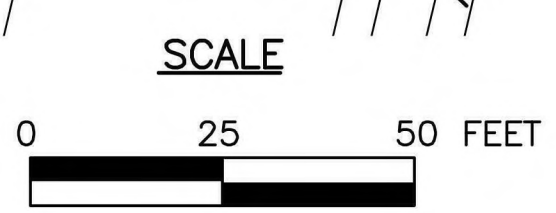
LIMIT OF WORK
STA 8+70.00
SEG 0027 OFFSET 0104
SR 0183, SECTION 05B
CITY OF READING
BERKS COUNTY

PROPOSED STRUCTURE DATA

STA. 5+38.14	S-36195
SINGLE SPAN COMPOSITE CONCRETE	
ADJACENT BOX BEAM BRIDGE	
SKEW = 76°-37'-28"	
LENGTH = 66'-0" TOTAL LENGTH	
CLEARANCE = 23'-0" OVER RAILROAD	
WIDTH = 30'-0" CURB TO CURB	
49'-7" OUT TO OUT	

EXISTING STRUCTURE DATA

STA. 5+38	
3-SPAN ENCASED STEEL GIRDER BRIDGE	
SKEW = 75°-00'-00"	
LENGTH = 78' TOTAL LENGTH	
CLEARANCE = 18'-7" OVER RAILROAD	
WIDTH = 30'-0" CURB TO CURB	
53'-6" OUT TO OUT	



- LEGEND**
- MILL AND OVERLAY
 - SELECTIVE TREE REMOVAL
 - TO BE REMOVED (INCIDENTAL TO ITEM 0201-0001)
 - TO BE REMOVED BY ECMS 118544
 - ** DENOTES SANITARY MANHOLE RISER (RISER PROVIDED BY CITY)

NOTES:
FOR STATION/OFFSETS ASSOCIATED WITH
PEDESTRIAN ALLEY TEMPORARY CONSTRUCTION
EASEMENTS, SEE DETAIL SHEET 42.

LEGAL SLOPE EASEMENT ⑥

NO.	STATION	OFFSET
6	5+83.59	25.00' RT
7	5+84	25' RT
8	5+84	76' RT
9	5+71	76' RT
12	6+44	25' LT
13	6+44	70' LT
14	6+67	70' LT
15	6+67	25' LT

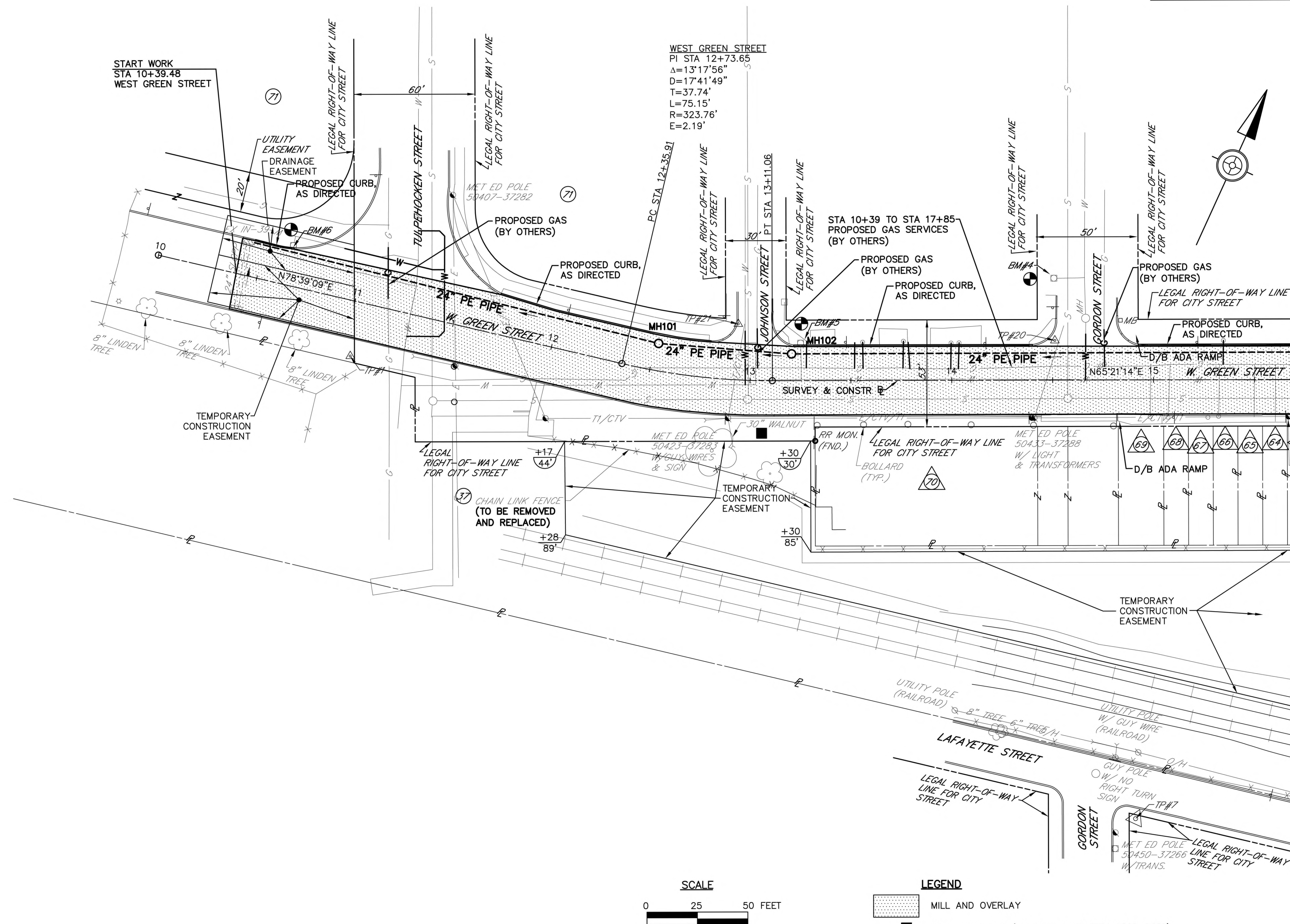


DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	62 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	

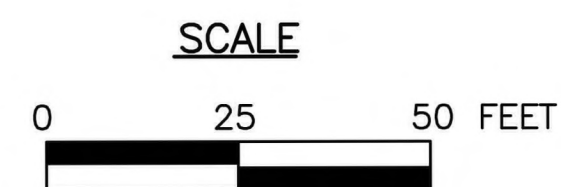
BM#6 = ELEV 279.51
 19.9' LT STA 10+64
 CHISEL 'X' ON SOUTH BOLT UPPER FLANGE OF
 FH NORTHERLY SIDE OF WEST GREEN STREET

BM#5 = ELEV 282.57
 18.6' LT STA 13+25
 CHISEL 'X' ON NW BOLT ON UPPER FLANGE OF
 FH NORTHERLY SIDE OF WEST GREEN STREET

BM#4 = ELEV 283.81
 50.5' LT STA 14+51
 CHISEL 'X' ON NW BOLT ON UPPER FLANGE OF
 FH WESTERLY SIDE OF GORDON STREET



SEE SHEET 61



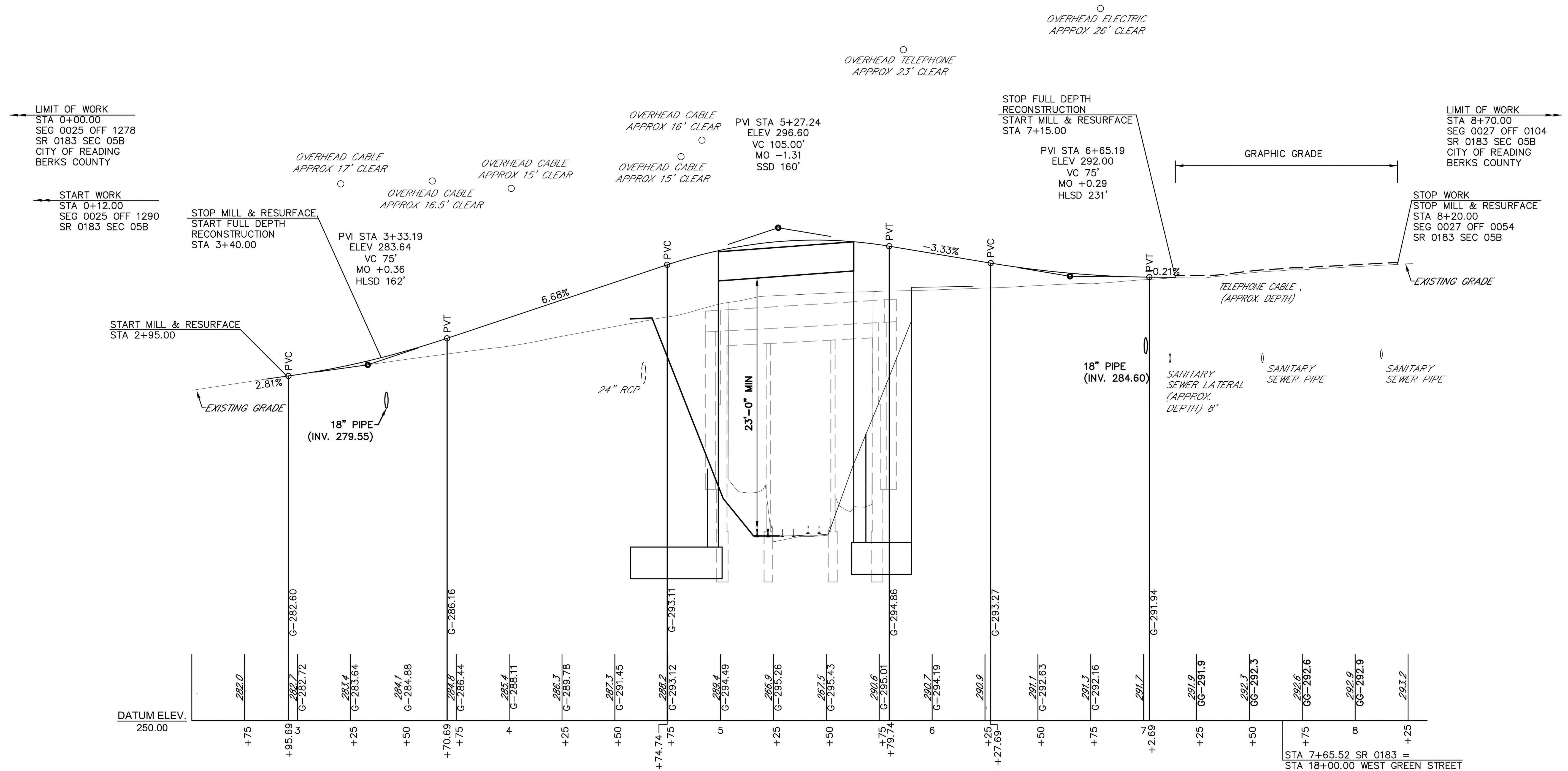
- LEGEND
- MILL AND OVERLAY
 - TO BE REMOVED (INCIDENTAL TO ITEM 0201-0001)



SURVEY BOOK NO. 24210

W:\01194\01194-04_SRF_0181\DWG\5\2021\2\Contr\DWG\01194-04-560183-05B-01.dwg - Picked: 10/20/2022 8:01 AM - By: CAMPBELL - D:\DWG TO PDF\PC3 - D:\DWG TO PDF\PC3 - Plot: S:\M\KKA FULL B+W\CTB

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
5-0	BERKS	0183	05B	63 OF 63
CITY OF READING				
REVISION NUMBER	REVISIONS	DATE	BY	



SR 0183

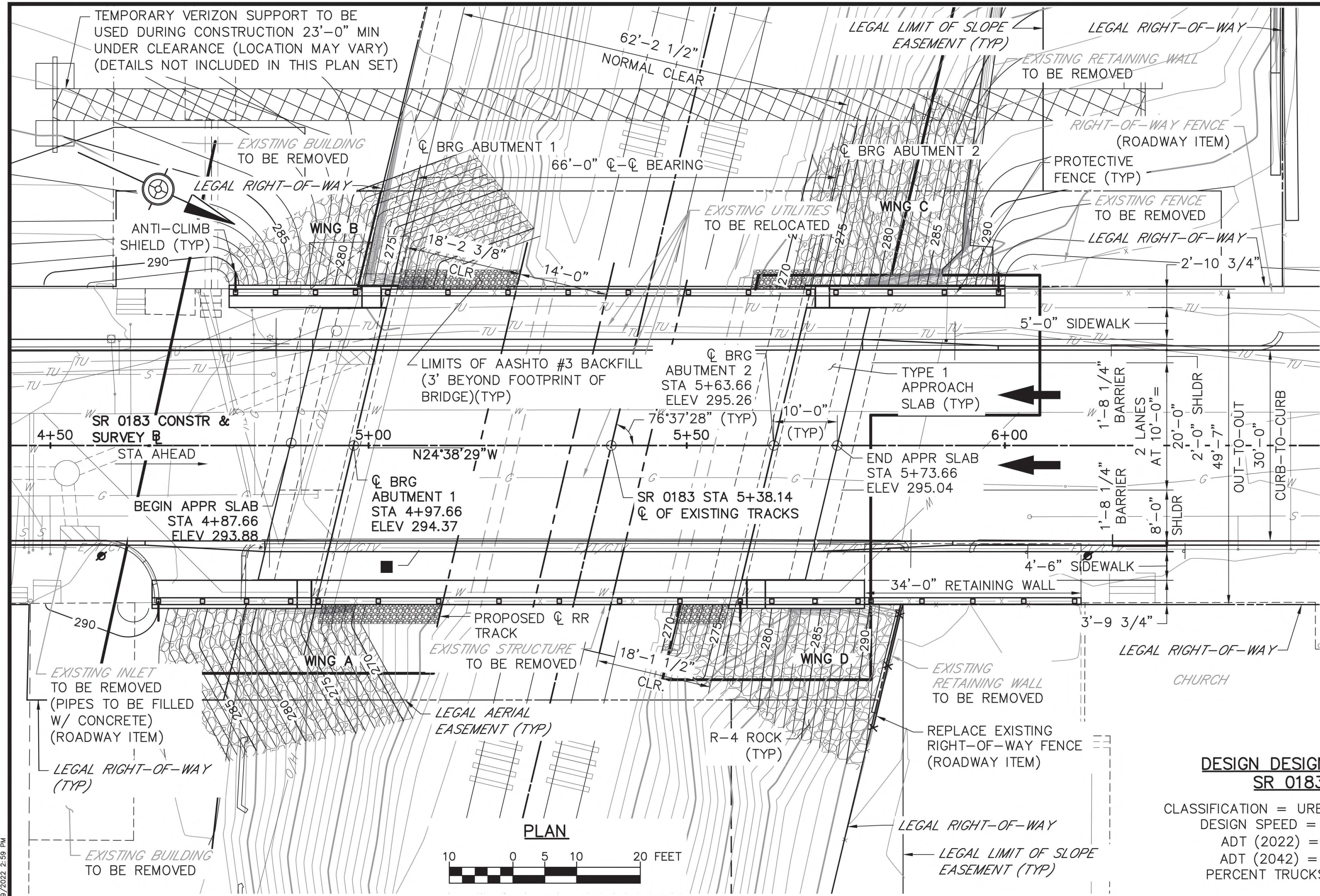
PROFILE SCALE



FOR PLAN SEE SHEET 61

SURVEY BOOK NO. 24210

W:\01\01194\01194-04_SSR_0183\DWG\3D\2022\Constr_DWG\01194-04_SSR0183-05B-C12-PRF-NS1a.dwg - Plot: 10/19/2022 3:51 PM - By: JCAMPBELL - Device: AUTOCAD PDF (GENERAL DOCUMENTATION).PC3 - Plot Style: MKA FULL B+W.CTB



LEGEND:

- 280- EXISTING MINOR CONTOURS
- 280- EXISTING MAJOR CONTOURS
- 280- PROPOSED MINOR CONTOURS
- 280- PROPOSED MAJOR CONTOURS
- * MEASURED NORMAL TO RAILROAD TRACKS
- 18'-1 1/2" MINIMUM PROPOSED HORIZONTAL CLEARANCE
- 18'-0" REQUIRED HORIZONTAL CLEARANCE
- 7'-9" MINIMUM EXISTING HORIZONTAL CLEARANCE
- 13'-0" MINIMUM TEMPORARY HORIZONTAL CLEARANCE
- BFE BOTTOM OF FOOTING ELEVATION
- TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- 23'-1 3/8" MINIMUM PROPOSED VERTICAL CLEARANCE,
- 23'-0" REQUIRED VERTICAL CLEARANCE,
- 18'-9" MINIMUM EXISTING VERTICAL CLEARANCE
- 22'-0" MINIMUM TEMPORARY VERTICAL CLEARANCE
- PROPOSED RIGHT-OF-WAY-FENCE
- DIRECTION OF TRAFFIC

VERTICAL CURVE DATA
SR 0183

PVI STA = 05+27.24
PVI ELEV = 296.60
VC = 105.00'
MO = -1.31
SSD = 160.0'

+6.68% -3.33%

HORIZONTAL CURVE DATA
SR 0183
ON TANGENT

DESIGN REVIEWED BY:
PENNONI ASSOCIATES INC.
672 SOUTH RIVER ROAD, SUITE 313
PLAINS, PA 18705

CERTIFIED CORRECT PLANS
Daniel P. Hallock
Professional Engineer
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
ATTEST: [Signature]
Secretary

DOCKET A-2018-3000172

REVIEW CONSULTANT'S NAME SIGNATURE _____ DATE _____

THE DESIGN REVIEW IS FOR GENERAL CONFORMANCE WITH THE DEPARTMENT'S DESIGN AND CONSTRUCTION CRITERIA AND STANDARDS AND IS NOT INTENDED TO RELIEVE THE DESIGNER OF FULL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THE PLANS.

CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	6/1/10
BACKFILL AT STRUCTURES	RC-12M	2/8/19
PROTECTIVE FENCE	BC-701M	2/19/21
ANCHOR SYSTEMS	BC-734M	2/19/21
WALL CONSTRUCTION AND EXPANSION JOINT DETAILS	BC-735M	9/30/16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	1/31/19
BRIDGE DRAINAGE	BC-751M	1/31/19
CONCRETE DECK SLAB DETAILS	BC-752M	2/19/21
BEARINGS	BC-755M	1/31/19
PREFORMED NEOPRENE COMPRESSION SEAL JOINT FOR APPROACH SLABS	BC-766M	1/31/19
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	9/30/16
TYPICAL WATERPROOFING & EXPANSION DETAILS	BC-788M	1/31/19
DESCRIPTION	DWG NO	APP DATE
SUPPLEMENTAL DRAWINGS		

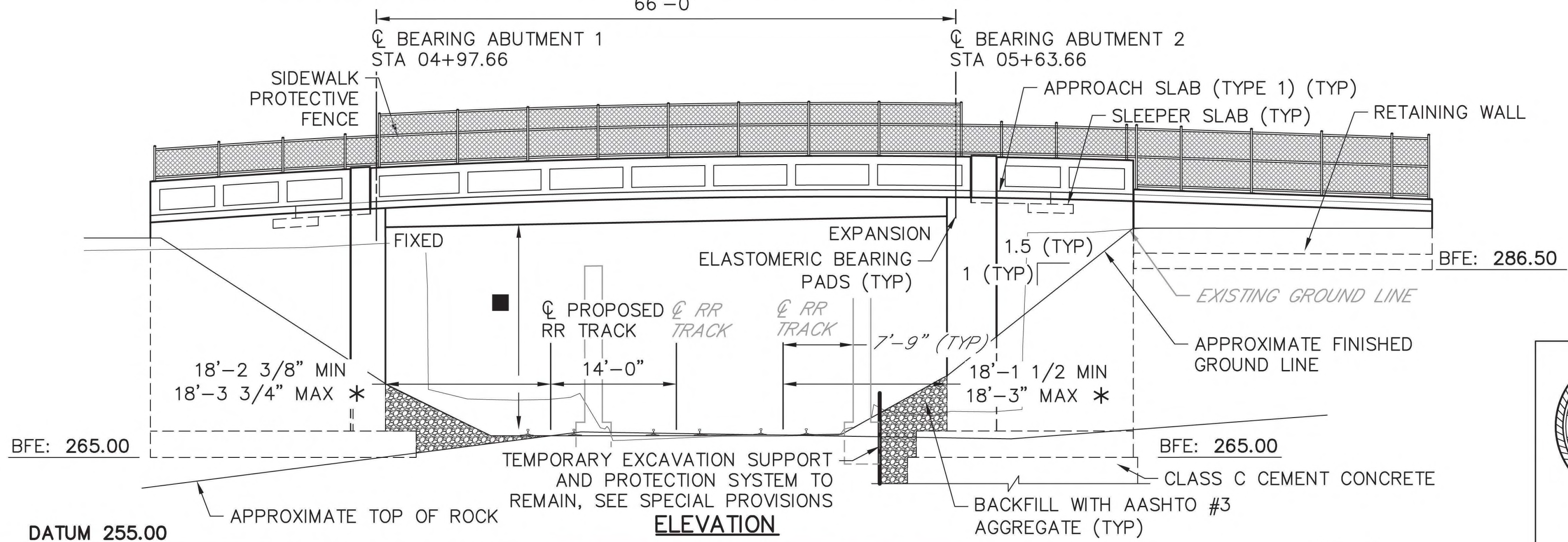
DESIGN DESIGNATION
SR 0183

CLASSIFICATION = URBAN ARTERIAL
DESIGN SPEED = 25 MPH
ADT (2022) = 6119
ADT (2042) = 6318
PERCENT TRUCKS = 3%

EXISTING STRUCTURE DATA

- 3 SPAN CONCRETE ENCASED STEEL I-BEAM WITH REINFORCED CONCRETE JACK ARCHES
- ROADWAY: 30'-0" CURB-TO-CURB
- SKEW: 75°
- LENGTH 78.0'
- OUT-TO-OUT 53'-6"
- BRIDGE KEY: 4741

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					
SR 0183 PREVIOUSLY KNOWN AS LR 310 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241					



NOTES:

- FOR TYPICAL SECTION & INDEX, SEE SHEET 2.
- FOR GENERAL NOTES, SEE SHEET 3.

McTISH, KUNKEL & ASSOCIATES
3500 Winchester Road
Suite 300
Allentown, PA 18104
phone: 610-841-2700
fax: 610-841-2709

Digitally signed by Brad D. Barndt
Date: 2022.10.26 12:52:02 -04'00'

Brad D. Barndt
BRAD D. BARNDT P.E. NO 057420

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
GENERAL PLAN & ELEVATION

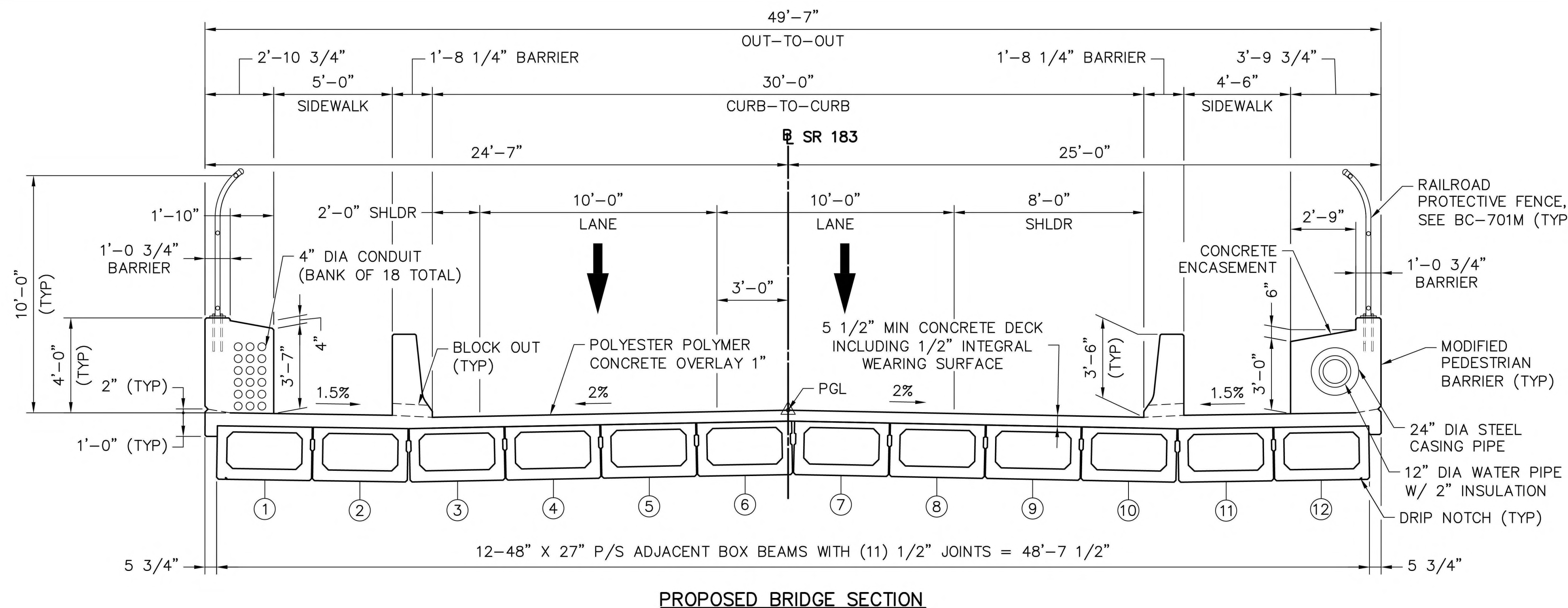
RECOMMENDED 10/27/2022
[Signature]
DISTRICT 5-BRIDGE ENGINEER

SHEET 1 OF 54
+ SUPPLEMENTAL DRAWINGS
S-36195

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DRAWING INDEX

SHEET	TITLE
1	GENERAL PLAN & ELEVATION
2	TYPICAL SECTION, RATINGS & DRAWING INDEX
3	GENERAL NOTES
4	QUANTITIES
5	STAKE-OUT PLAN
6	EXCAVATION DETAILS
7	ABUTMENT 1 PLAN
8	ABUTMENT 1 FOOTING PLAN
9	ABUTMENT 1 ELEVATION
10	ABUTMENT 1 TYPICAL SECTION & DOWEL DETAIL
11	ABUTMENT 1 SECTIONS
12	WING A ELEVATION & SECTION
13	WING B ELEVATION & SECTION
14	ABUTMENT 1 BAR SCHEDULE - 1
15	ABUTMENT 1 BAR SCHEDULE - 2
16	ABUTMENT 2 PLAN
17	ABUTMENT 2 FOOTING PLAN
18	ABUTMENT 2 ELEVATION
19	ABUTMENT 2 TYPICAL SECTION
20	ABUTMENT 2 SECTIONS
21	WING C ELEVATIONS & SECTIONS
22	WING D ELEVATIONS & SECTIONS
23	ABUTMENT 2 BAR SCHEDULE - 1
24	ABUTMENT 2 BAR SCHEDULE - 2
25	FRAMING PLAN
26	BEAM DETAILS 1
27	BEAM DETAILS 2
28	BEAM DETAILS 3
29	BEAM DETAILS 4
30	SLAB PLAN
31	TYPICAL SECTION & BARRIER DETAILS
32	ARCHITECTURAL BARRIER DETAILS
33	FENCE PLAN
34	DECK ELEVATIONS @ BREAK-IN-SLOPE
35	DECK ELEVATIONS OVER CENTERLINE OF BEAMS
36	SUPERSTRUCTURE BAR SCHEDULE
37	APPROACH SLAB 1 PLAN
38	APPROACH SLAB 1 SECTION AND DETAILS-1
39	APPROACH SLAB 1 SECTION AND DETAILS-2
40	APPROACH SLAB 1 BAR SCHEDULE
41	APPROACH SLAB 2 PLAN
42	APPROACH SLAB 2 SECTION AND DETAILS
43	APPROACH SLAB 2 BAR SCHEDULE
44	RETAINING WALL
45	RETAINING WALL BAR SCHEDULE
46	VERIZON TEMPORARY UTILITY SUPPORT
47	VERIZON UTILITIES ELEVATION & DETAILS
48	RAWA UTILITIES ELEVATION & DETAILS
49	TEST BORINGS-1
50	TEST BORINGS-2
51	TEST BORINGS-3
52	TEST BORINGS-4
53	TEST BORINGS-5
54	TEST BORINGS-6



PROPOSED BRIDGE SECTION



BRIDGE LOAD RATINGS WITH FUTURE WEARING SURFACE
ADTT (2042): 190

BRIDGE LOAD RATINGS WITHOUT FUTURE WEARING SURFACE
ADTT (2042): 190

SPAN NO 1		48" x 27" P/S ADJACENT BOX BEAMS						
		H20	HS 20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	0.336	0.336	0.336	0.336	0.336	-	-
	LOCATION (FT)	0.5 L	0.5 L	0.5 L	0.5 L	0.5 L	-	-
	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	SERV-III	-	-
	RATING FACTOR	1.83 M	1.30 M	1.11 M	1.15 M	1.20 M	-	-
	RESISTANCE	0.268 KSI	0.268 KSI	0.268 KSI	0.268 KSI	0.268 KSI	-	-
	SPAN#/BEAM#	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	0.589	0.589	0.589	0.589	0.589	0.589	0.589
	LOCATION (FT)	0.11 L	0.11 L	0.21 L	0.11 L	0.11 L	0.11 L	0.11 L
	LIMIT STATE	STR-II	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	3.13 V	2.30 V	2.06 V	2.04 V	1.86 V	1.24 V	1.20 V
	RESISTANCE	212.5 KIP	212.5 KIP	177.6 KIP	212.5 KIP	212.5 KIP	212.5 KIP	212.5 KIP
	SPAN#/BEAM#	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1

SPAN NO 1		48" x 27" P/S ADJACENT BOX BEAMS						
		H20	HS 20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	DISTRIBUTION FACTOR	0.336	0.336	0.336	0.336	0.336	-	-
	LOCATION (FT)	0.5 L	0.5 L	0.5 L	0.5	0.5 L	-	-
	LIMIT STATE	SERV-III	SERV-III	SERV-III	SERV-III	SERV-III	-	-
	RATING FACTOR	2.04 M	1.45 M	1.23 M	1.28 M	1.34 M	-	-
	RESISTANCE	0.268 KSI	0.268 KSI	0.268 KSI	0.268 KSI	0.268 KSI	-	-
	SPAN#/BEAM#	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	-	-
OPERATING RATING (OR)	DISTRIBUTION FACTOR	0.589	0.589	0.589	0.589	0.589	0.589	0.589
	LOCATION (FT)	0.11 L	0.21 L	0.21 L	0.11 L	0.21 L	0.11 L	0.11 L
	LIMIT STATE	STR-II	STR-II	STR-II	STR-II	STR-IA	STR-II	STR-II
	RATING FACTOR	3.23 V	2.37 V	2.12 V	2.10 V	1.92 V	1.29 V	1.24 V
	RESISTANCE	216.1 KIP	179.8 KIP	179.8 KIP	216.1 KIP	179.8 KIP	216.1 KIP	216.1 KIP
	SPAN#/BEAM#	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1

CRITICAL MEMBER : EXTERIOR BEAM 1
 MAXIMUM FACTORED FLEXURAL RESISTANCE: 3026 (K-ft)
 LOCATION : 19.80 FT
 MAXIMUM FACTORED SHEAR RESISTANCE (KIPS): 241 k
 LOCATION : 59.40 FT

CRITICAL MEMBER : EXTERIOR BEAM 1
 MAXIMUM FACTORED FLEXURAL RESISTANCE: 3026 (K-ft)
 LOCATION : 19.80 FT
 MAXIMUM FACTORED SHEAR RESISTANCE (KIPS): 244 k
 LOCATION : 59.40 FT

NOTES:

- "M", "V", AND "SM" 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.
- LRFD METHOD USED FOR RATINGS.

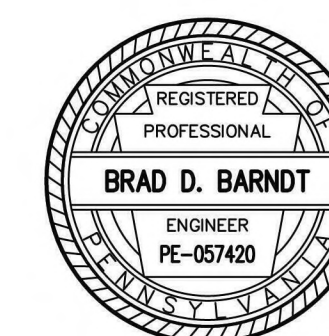
LEGEND:

- (X) DESIGNATES BEAM NUMBER

NOTES:

- FOR METAL CURB DRAIN DETAILS, SEE BC-751M.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					



SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TYPICAL SECTION, RATINGS & DRAWING INDEX

RECOMMENDED 10 / 27 / 2022 SHEET 2 OF 54

S-36195

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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DESIGN SPECIFICATIONS

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION (2017) AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019.
2. LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM4 DISTRIBUTION FACTOR METHOD.
3. DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS

1. PHL-93, P-82, AND P2016-13.
2. FATIGUE DESIGN IS BASED ON THE FOLLOWING:
ADTT 190 (2042)
3. MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE:
0.0948 X SQUARE ROOT OF f'c

DEAD LOADS

1. INCLUDES SURFACE AREA DENSITY OF 0.030 ksf FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
2. INCLUDES SURFACE AREA DENSITY OF 0.013 KSF FOR POLYESTER POLYMER CONCRETE OVERLAY ON THE DECK SLAB.
3. INCLUDES 0.022 KIP/FT FOR PROTECTIVE FENCE.
4. INCLUDES 1.670 KIP/FT FOR THE LEFT UTILITY AND UTILITY ENCASEMENT.
5. INCLUDES 1.717 KIP/FT FOR THE RIGHT UTILITY AND UTILITY ENCASEMENT.

GENERAL

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION 408 (2020), AASHTO/AWS D1.5M/D1.5:2015 BRIDGE WELDING CODE (2015) AND CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M:2015 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5:2015.
2. PROVIDE 2 INCHES OF CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
3. USE CLASS AAAP CEMENT CONCRETE IN DECK SLAB.
4. USE CLASS AA CEMENT CONCRETE IN F-SHAPE BARRIERS, APPROACH SLABS, SLEEPER SLABS, CHEEKWALLS AND U-WINGS ABOVE BRIDGE SEAT CONSTRUCTION JOINT.
5. USE CLASS A CEMENT CONCRETE IN ABUTMENTS BELOW BRIDGE SEAT, WINGWALLS, RETAINING WALL, AND FOOTINGS.
6. USE CLASS AA CEMENT CONCRETE, EXCEPT USE NO. 8 COARSE AGGREGATE IN MODIFIED PEDESTRIAN BARRIERS WITH UTILITY ENCASEMENTS.
7. USE CLASS C CEMENT CONCRETE BELOW THE BOTTOMS OF FOOTINGS WHEN SPECIFIED.
8. 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.
9. 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 ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
10. USE EPOXY-COATED REINFORCEMENT BARS IN THE DECK SLAB, BARRIERS, SIDEWALK, U-WINGS ABOVE THE CONSTRUCTION JOINT, STIRRUPS PROTRUDING FROM PRESTRESSED BEAMS INTO THE DECK SLAB. EPOXY-COAT J-BAR REINFORCEMENT IN SUBSTRUCTURE UNITS AND EPOXY-COAT OTHER SUBSTRUCTURE REINFORCEMENT BARS AS INDICATED.
11. GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
12. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
13. SITE CLASS IS NOT CLASS E.
14. VERIFY ALL DIMENSIONS AND GEOMETRY OF THE EXISTING STRUCTURE IN THE FIELD AS NECESSARY FOR PROPER FIT OF THE PROPOSED CONSTRUCTION.
15. CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
16. PLACE CHEEKWALL AFTER BEAMS ARE SET IN POSITION.
17. CHAMFER EXPOSED CONCRETE EDGES 3/4 INCH BY 3/4 INCH, EXCEPT AS NOTED.
18. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
19. DECK SLAB THICKNESS INCLUDES A 1/2 INCH INTEGRAL WEARING SURFACE.
20. SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68° F.
21. PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.
22. PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(K)9.
23. BRIDGE IS NOT WEIGHT RESTRICTED. SEE PUBLICATION 408, SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.
24. DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.
25. DO NOT USE ADHESIVE ANCHORS IN A SUSTAINED TENSION APPLICATION FOR TEMPORARY INSTALLATIONS, INCLUDING DURING CONSTRUCTION.

GENERAL FOUNDATION NOTES

1. REMOVE THE EXISTING BRIDGE SUBSTRUCTURE AND FOUNDATIONS WHERE THEY INTERFERE WITH CONSTRUCTION IN ACCORDANCE WITH PUBLICATION 408, SECTION 1018. BACKFILL EXCAVATIONS BENEATH THE PROPOSED FOOTINGS WITH CLASS C CONCRETE.
2. UTILIZE SPREAD FOOTINGS BEARING ON CLASS C CONCRETE AND ROCK FOR FOUNDATION SUPPORT. OVEREXCAVATE ANY SOIL AND/OR SOFT OR WEATHERED MATERIAL TO THE TOP OF SOUND BEDROCK AND BACKFILL WITH CLASS C CONCRETE TO BOTTOM OF FOOTING ELEVATION AND AS DIRECTED.
3. VISUALLY INSPECT THE MATERIAL AT THE BOTTOM OF FOOTING ELEVATION. OVEREXCAVATE AND BACKFILL BENEATH THE FOOTING WITH CLASS C CONCRETE AT THE DIRECTION OF THE DISTRICT STRUCTURAL CONTROL ENGINEER (DSCE) OR DSCE REPRESENTATIVE AND IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
4. NOTIFY THE DEPARTMENT IMMEDIATELY IF SINKHOLES ARE ENCOUNTERED DURING CONSTRUCTION. REPAIR THE SINKHOLES AS DIRECTED BY THE DEPARTMENT IN ACCORDANCE WITH THE REMEDIATION OF SINKHOLES SPECIAL PROVISION.
5. FOUNDATION SUBGRADE MUST BE INSPECTED AND APPROVED BY THE DISTRICT STRUCTURAL CONTROL ENGINEER (DSCE) OR DSCE REPRESENTATIVE. NOTIFY THE REPRESENTATIVE AT LEAST 7 CALENDAR DAYS BEFORE THE NEED FOR THE INSPECTION IS ANTICIPATED. NOTIFY THE REPRESENTATIVE OF A FIRM DATE AND TIME AT LEAST 48 HOURS BEFORE THE REQUESTED DATE AND TIME OF THE INSPECTION OF AN EXCAVATION, BUT GIVE THE NOTICE BETWEEN START OF WORK ON MONDAY AND NOON OF THE FOLLOWING FRIDAY. DO NOT SCHEDULE AN INSPECTION OF A FOUNDATION ON SATURDAYS, SUNDAYS, OR HOLIDAYS WITHOUT THE PRIOR APPROVAL OF THE REPRESENTATIVE.
6. SPREAD FOOTINGS MAY BE ORDERED BY THE DSCE OR DSCE REPRESENTATIVE TO BE AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.
7. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING SUFFICIENT DEWATERING SO THAT THE EXCAVATIONS ARE DRY ENOUGH TO BE INSPECTED BY THE DSCE OR DSCE REPRESENTATIVE.
8. BLASTING IS NOT PERMITTED TO BE USED AS A METHOD OF EXCAVATION.
9. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL TEMPORARY EXCAVATED SLOPES. DIRECT SURFACE RUNOFF AWAY FROM THE EXCAVATION. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS.
10. PROVIDE TEMPORARY EXCAVATION SUPPORT IN ACCORDANCE WITH TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM STANDARD SPECIAL PROVISION AND NORFOLK SOUTHERN CORPORATION REQUIREMENTS. USE THE FOLLOWING PARAMETERS FOR THE DESIGN OF THE TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM:

EFFECTIVE ANGLE OF FRICTION: 29°
MOIST UNIT WEIGHT OF SOIL: 115 PCF
SATURATED UNIT WEIGHT OF SOIL: 120 PCF
EFFECTIVE COHESION: 0.0 PSF
GROUNDWATER ELEVATION: 258 (NEAR TRACKS) 265 (END OF WINGS)
UNDRAINED SHEAR STRENGTH: N/A
SHEAR STRENGTH OF ROCK MASS: 32.0 KSF
11. TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM, LOCATED WITHIN 14 FEET OF THE CENTERLINE OF THE RAILROAD TRACKS, WILL NEED TO BE INTERLOCKING. THIS SHORING WILL NEED TO REMAIN IN PLACE AND NOT BE REMOVED. AFTER BACKFILLING, THE SHORING WILL BE CUT OFF 2'-0" BELOW FINISHED GRADE. RAILROAD LIVE LOAD MUST BE CONSIDERED IN THE DESIGN OF TEMPORARY EXCAVATION SUPPORT. SEE SPECIAL PROVISIONS.

PROTECTIVE COATINGS

1. APPLY A PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE) IN ACCORDANCE WITH PUBLICATION 408, SECTION 1019.3(c)2, TO THE INSIDE AND TOP SURFACES OF THE BARRIERS.

UTILITY NOTES

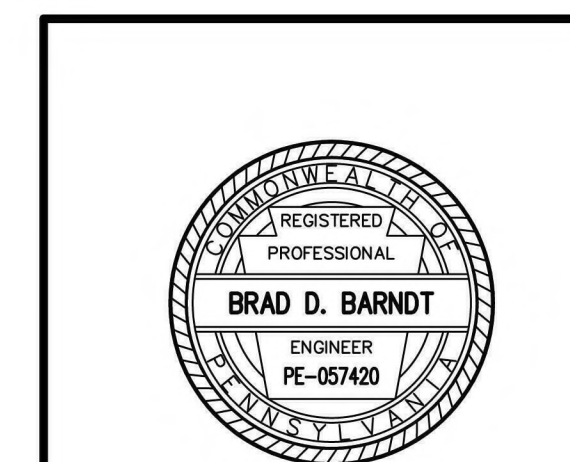
1. COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 105.06 AND 107.12.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
GENERAL NOTES



RECOMMENDED 10 / 27 / 2022 SHEET 3 OF 54

S-36195

DES:	TML	CHK'D:	BDB
DWG:	JTP	CHK'D:	BDB

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APPROXIMATE QUANTITIES – BRIDGE STRUCTURE, AS DESIGNED

ITEM NO.	DESCRIPTION	UNIT	APPROACH SLAB 1	ABUT 1	ABUT 2	APPROACH SLAB 2	SUPERSTRUCTURE	TOTAL
8020-0001	BRIDGE STRUCTURE, AS DESIGNED, S-36195*	LS						LUMP SUM
(1)	CLASS 3 EXCAVATION	CY	-	2158	1319	-	-	3477
(1)	STRUCTURE BACKFILL	CY	-	1037	1211	-	-	2248
(1)	ROCK, CLASS R4	CY	-	75	76	-	-	151
(1)	NO. 3 COARSE AGGREGATE	CY	-	95	94	-	-	189
(1)	NO. 57 COARSE AGGREGATE (3) (8)	CY	-	4	4	2	-	10
(1)	6" STRUCTURE FOUNDATION DRAIN	LF	-	58	58	-	-	116
(1)	MEMBRANE WATERPROOFING SYSTEM INSTALLED ON OTHER SURFACES	SY	-	60	61	-	-	121
(1)	CLASS AAP CEMENT CONCRETE	CY	-	-	-	-	95	95
(1)	CLASS AA CEMENT CONCRETE	CY	33	-	-	33	22	88
(1)	CLASS A CEMENT CONCRETE (8)	CY	-	363	385	28	-	776
(1)	CLASS AA CEMENT CONCRETE, EXCEPT USE NO. 8 COARSE AGGREGATE	CY	22	-	-	21	48	91
(1)	BARRIER PROTECTIVE FENCE, STEEL (4)	LF	49	-	-	49	-	98
(1)	SIDEWALK PROTECTIVE FENCE, STEEL	LF	-	-	-	34	-	34
(1)	RAILROAD PROTECTIVE FENCE, CURVED TOP, STEEL	LF	-	-	-	-	137	137
(1)	PRESTRESSED CONCRETE ADJACENT BOX BEAMS, 48"x27" (5)	LF	-	-	-	-	792	792
(1)	POLYESTER POLYMER CONCRETE OVERLAY, 1"	SY	-	-	-	-	290	290
(1)	24" DIAMETER STEEL CASING PIPE *	LF	5	-	-	5	68	78
(1)	UTILITY ENCASEMENT COVER *	LF	-	23	16	-	-	39
AND								
1001-0980	MECHANICAL TEXTURING WITH LONGITUDINAL SAWED GROOVES (9)	SY					290	290
AND								
1002-0001	REINFORCEMENT BARS (2)	LB	-	27,852	28,009	-	-	55,861
AND								
1002-0052	REINFORCEMENT BARS, EPOXY COATED (2) (6) (8)	LB	6979	8834	8671	9731	15,311	49,526
1018-0001	REMOVAL OF EXISTING BRIDGE	LS	-	-	-	-	-	1
1019-0050	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE)	SY	100	-	-	99	512	711
1091-0335	EPOXY INJECTION CRACK SEAL	DOLLAR	-	-	-	-	500	500
9000-0012	PRE AND POST CONSTRUCTION SURVEY *	EA	-	-	-	-	14	14
9000-0027	OVEREXCAVATION AND BACKFILLING UNDER FOUNDATION* (7)	CY	-	15	252	-	-	267
9000-0028	TRACK MONITORING PROGRAM *	DOLLAR	-	-	-	-	-	5000
9000-0029	CONSTRUCTION VIBRATION MONITORING *	LS	-	-	-	-	-	1
9203-0101	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM*	LS	-	-	-	-	-	1

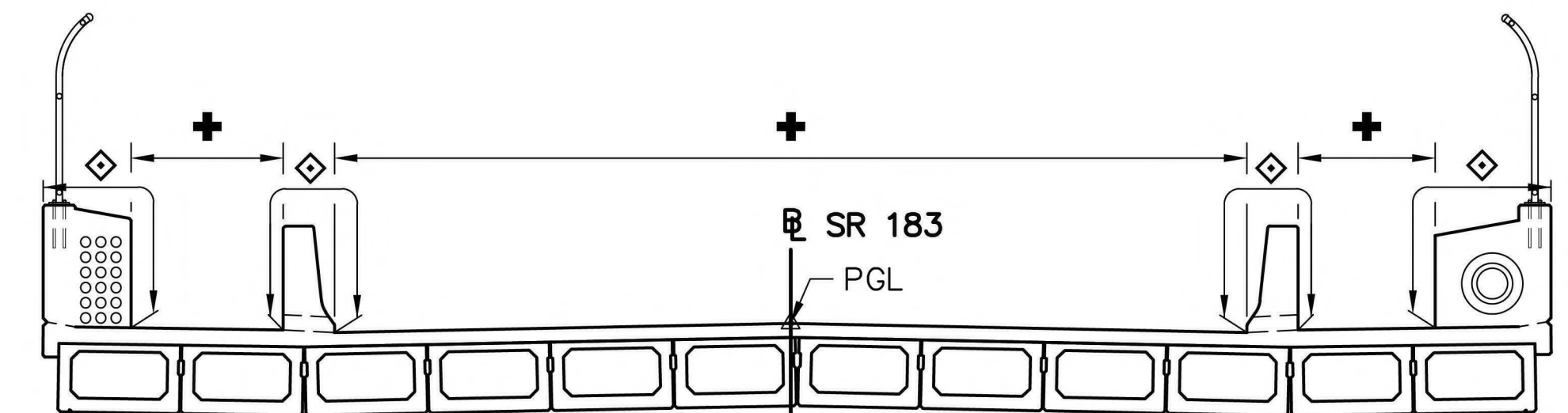
NOTES:

- (*) SEE SPECIAL PROVISIONS.
- (1) ITEMS IN BRIDGE STRUCTURE LUMP SUM ITEM 8020-0001 GIVEN FOR INFORMATION ONLY.
- (2) FOR AS DESIGNED STRUCTURE, INCLUDED IN BRIDGE BID ITEMS. FOR ALTERNATE DESIGNS, INCLUDED IN BRIDGE STRUCTURE LUMP SUM BID ITEM.

- (3) GEOTEXTILE, CLASS 1 IS INCIDENTAL TO THIS ITEM.
- (4) INCLUDES 4 ANTI CLIMB SHIELDS AS PART OF FENCE.
- (5) INCLUDES NEOPRENE BEARING PADS.
- (6) INCLUDES STAINLESS STEEL DOWEL BARS.
- (7) INCLUDES EXCAVATION AND CLASS C CEMENT CONCRETE.
- (8) APPROACH SLAB 2 QUANTITY INCLUDES RETAINING WALL QUANTITY.
- (9) THIS ITEM IS TO BE USED IF THE DECK IS PLACED IN SERVICE BEFORE THE PPC OVERLAY IS INSTALLED.

ALTERNATE STRUCTURE ITEMS

ITEM NO.	DESCRIPTION	UNIT	TOTAL
8020-0001	BRIDGE STRUCTURE, AS DESIGNED, S-36195*	LS	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE*	LS	LUMP SUM
8100-0001	STEEL BRIDGE STRUCTURE*	LS	LUMP SUM



SUPERSTRUCTURE PROTECTIVE COATING DETAIL
(NOT TO SCALE)

LEGEND:

- + LIMITS OF POLYESTER POLYMER CONCRETE OVERLAY
- ◇ LIMITS OF PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

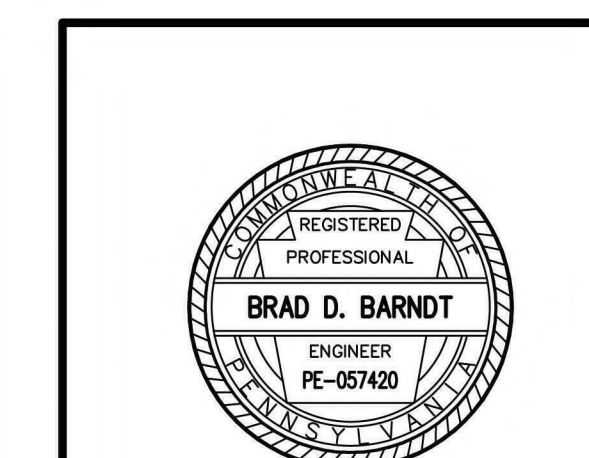
SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
QUANTITIES

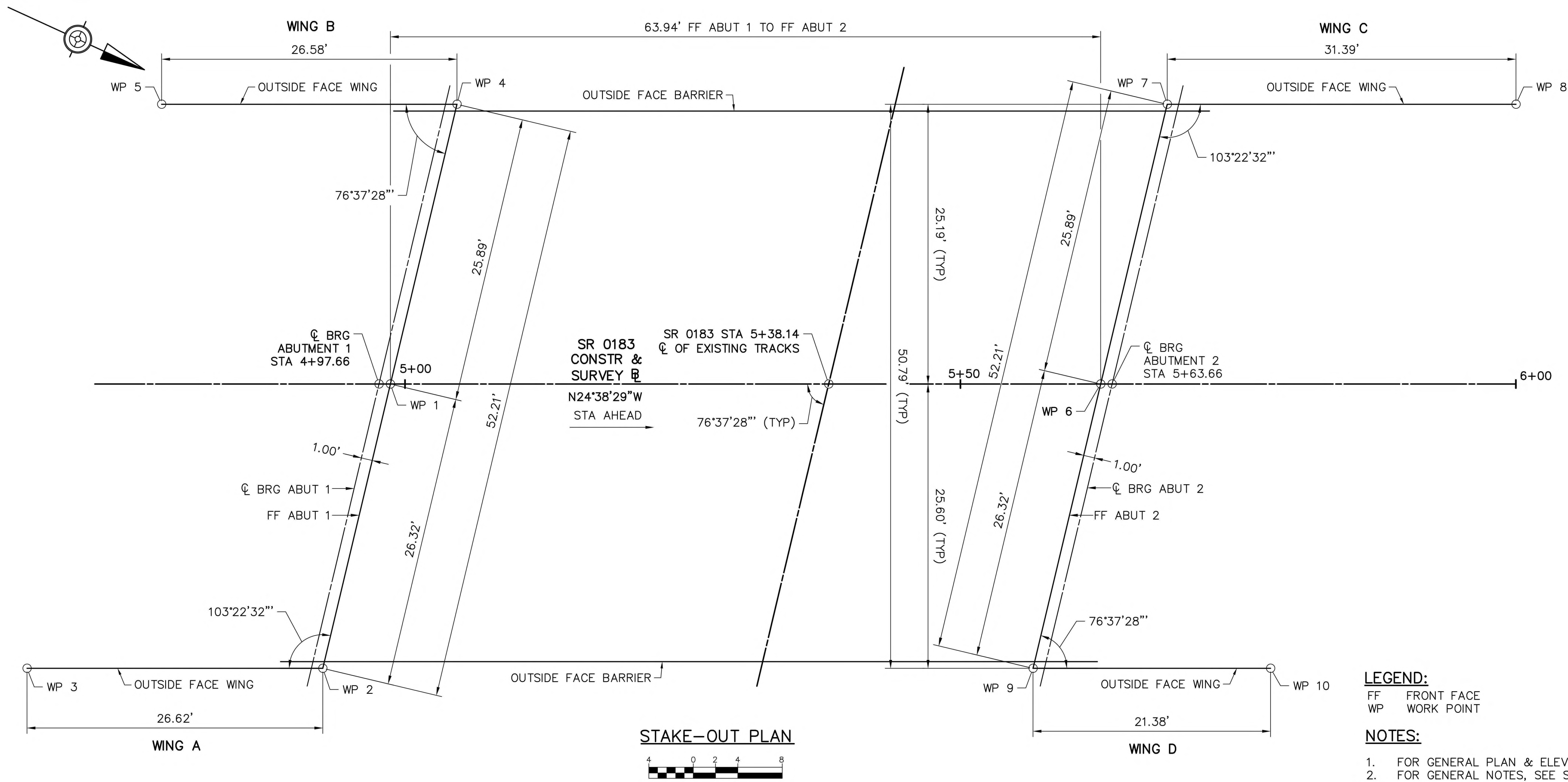
RECOMMENDED 10 / 27 / 2022 SHEET 4 OF 54

S-36195

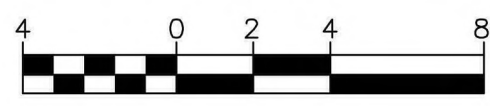


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DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB



STAKE-OUT PLAN



LEGEND:
 FF FRONT FACE
 WP WORK POINT

NOTES:
 1. FOR GENERAL PLAN & ELEVATION, SEE SHEET 1.
 2. FOR GENERAL NOTES, SEE SHEET X.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

WORK POINT DATA				
WP	COORDINATES		STATION	OFFSET
	NORTHING	EASTING		
1	372802.6819	2473371.8942	4+98.69	0.00'
2	372807.8235	2473397.7052	4+92.60	25.60'
3	372783.6234	2473408.8059	4+65.98	25.60'
4	372797.6241	2473346.5033	5+04.68	-25.19'
5	372773.4617	2473357.5866	4+78.09	-25.19'
6	372860.7982	2473345.2356	5+62.63	0.00'
7	372855.7403	2473319.8446	5+68.62	-25.19'
8	372884.2742	2473306.7558	6+00.01	-25.19'
9	372865.9397	2473371.0466	5+56.54	25.60'
10	372885.3751	2473362.1315	5+77.92	25.60'

DIAGONAL REFERENCE

WP 2 TO WP 7 91.42'
 WP 4 TO WP 9 72.59'

REFERENCE COORDINATES

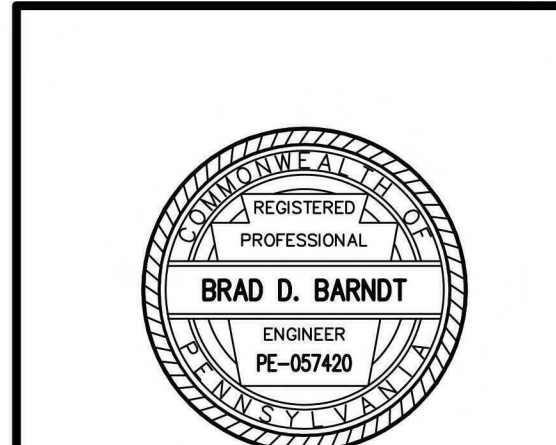
STATION 0+00.00 ~NORTHING 372349.4071
 ~EASTING 2473579.8162
 STATION 8+70.00 ~NORTHING 373140.1804
 ~EASTING 2473217.0800

NOTES

COORDINATES GIVEN TO FOUR DECIMAL PLACES FOR COMPUTATIONAL PURPOSES ONLY AND NOT IMPLY A PRECISION BEYOND TWO DECIMAL PLACES.

COORDINATES BASED ON PENNSYLVANIA STATE COORDINATE SYSTEM.

STATIONS & OFFSETS BASED ON SR 0183 CONSTR & SURVEY.



SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

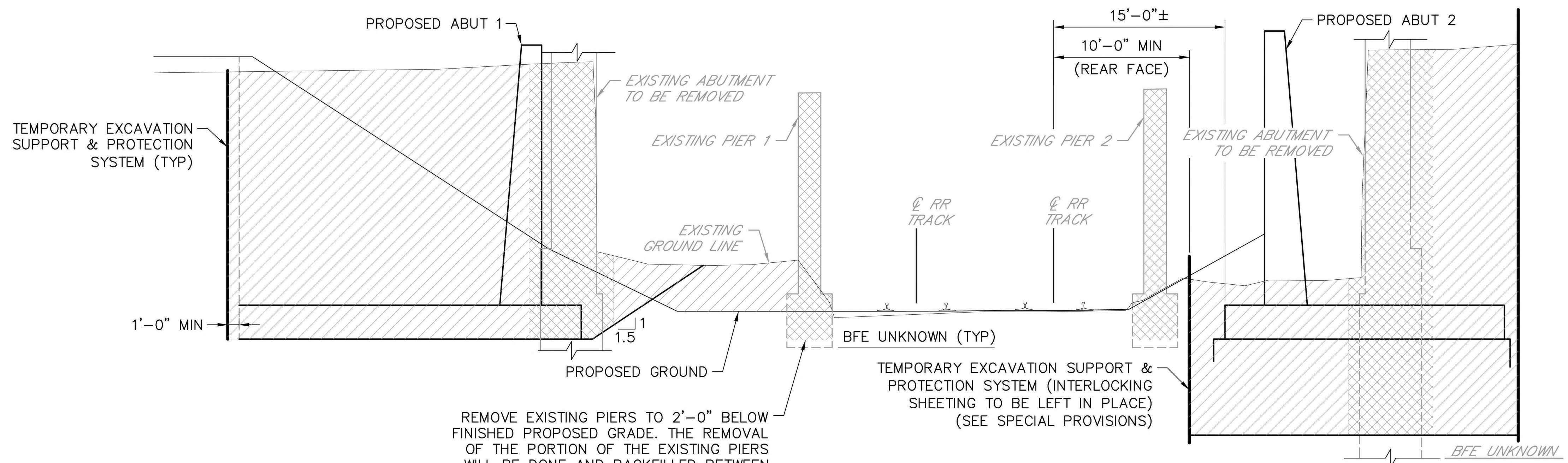
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 STAKE-OUT PLAN

RECOMMENDED 10 / 27 / 2022 SHEET 5 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

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REMOVE EXISTING PIERS TO 2'-0" BELOW FINISHED PROPOSED GRADE. THE REMOVAL OF THE PORTION OF THE EXISTING PIERS WILL BE DONE AND BACKFILLED BETWEEN THE PASSING OF TRAINS. COORDINATE WITH THE RAILROAD FOR THIS TASK. (TYP)

EXCAVATION LIMITS
(NOT TO SCALE)

LEGEND:
 INCLUDED IN REMOVAL EXISTING BRIDGE
 CLASS 3 EXCAVATION

BFE - BOTTOM OF FOOTING

- NOTES:**
- FOR GENERAL PLAN, SEE SHEET 1.
 - FOR GENERAL NOTES, SEE SHEET 3.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

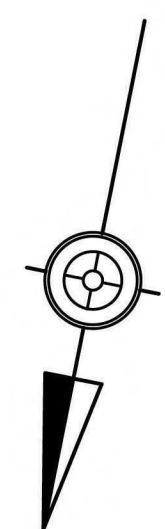
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
EXCAVATION DETAILS



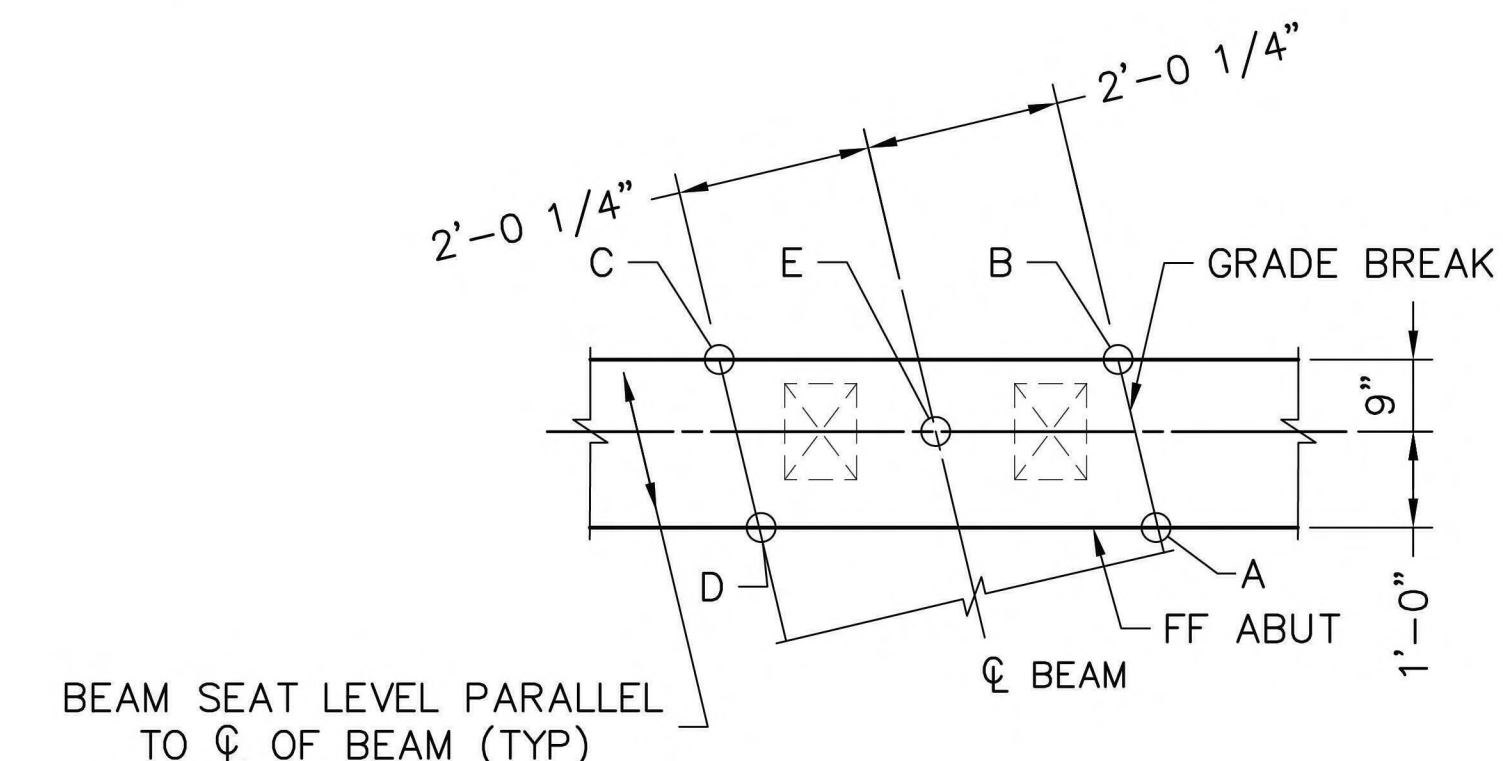
RECOMMENDED 10 / 27 / 2022 SHEET 6 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

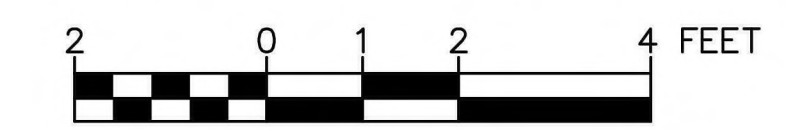
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BEARING ELEVATIONS AT ABUTMENT 1					
	ELEVATION				
	A	B	C	D	E
BEAM 1	291.43	291.43	291.37	291.37	291.40
BEAM 2	291.33	291.33	291.27	291.27	291.30
BEAM 3	291.23	291.23	291.31	291.31	291.27
BEAM 4	291.27	291.27	291.35	291.35	291.31
BEAM 5	291.31	291.31	291.39	291.39	291.35
BEAM 6	291.35	291.35	291.43	291.43	291.39
BEAM 7	291.38	291.38	291.30	291.30	291.34
BEAM 8	291.25	291.25	291.17	291.17	291.21
BEAM 9	291.13	291.13	291.04	291.04	291.09
BEAM 10	291.00	291.00	290.92	290.92	290.96
BEAM 11	290.87	290.87	290.93	290.93	290.90
BEAM 12	290.88	290.88	290.94	290.94	290.92



TYPICAL BEARING AREA DETAIL



NOTES:

- FOR GENERAL NOTES, SEE SHEET 3.
- FOR STAKE-OUT PLAN, SEE SHEET 5.
- FOR ADDITIONAL ABUTMENT DETAILS, SEE SHEETS 8-13.
- FOR ABUTMENT 1 REINFORCEMENT SCHEDULE, SEE SHEETS 14 & 15.
- FOR UTILITIES DETAILS, SEE SHEET 47 & 48.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

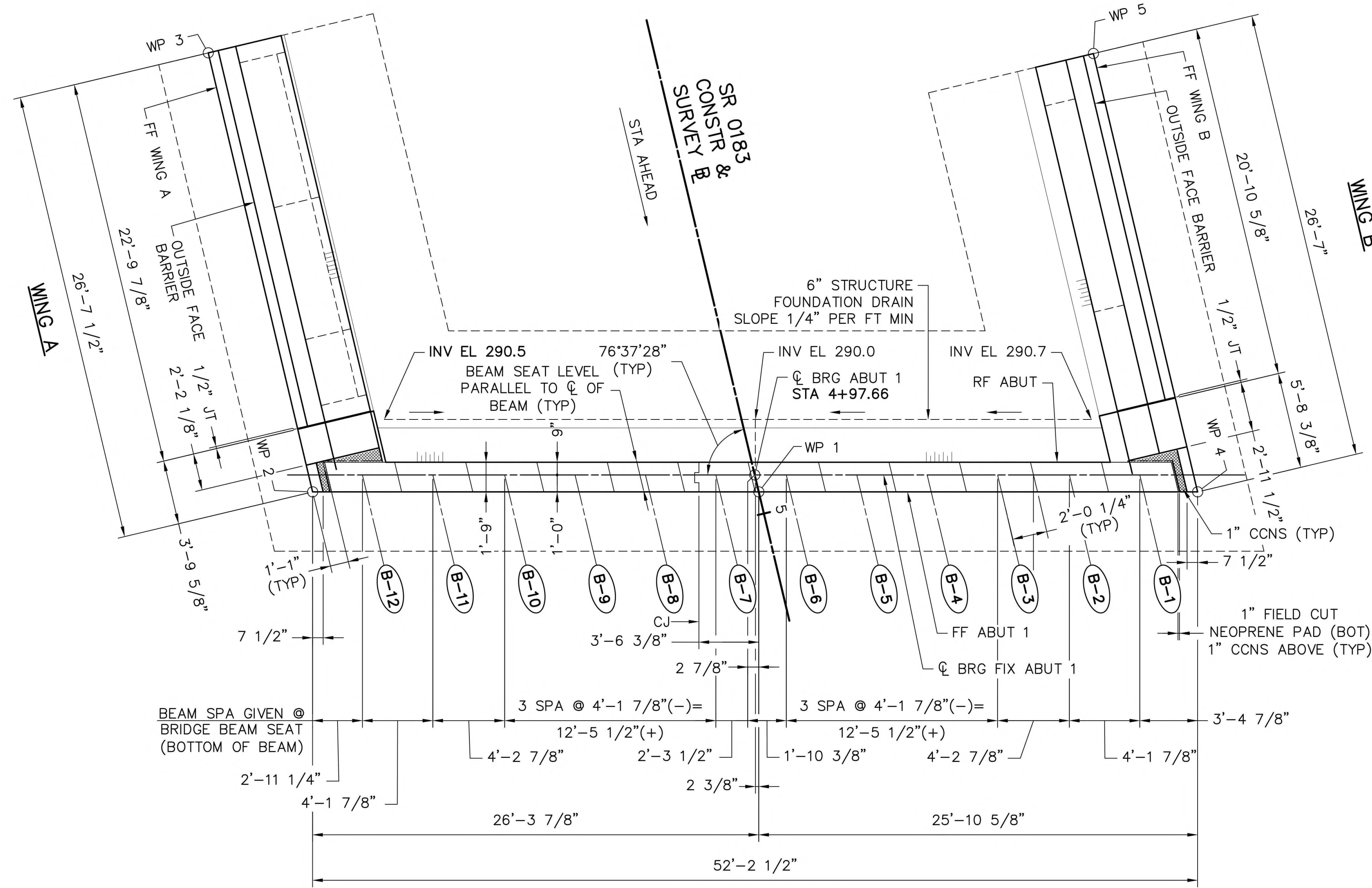
SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

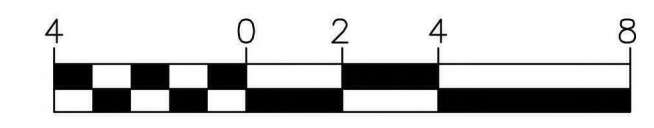
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 ABUTMENT 1 PLAN

RECOMMENDED 10/27/2022 SHEET 7 OF 54

S-36195



ABUTMENT 1 PLAN



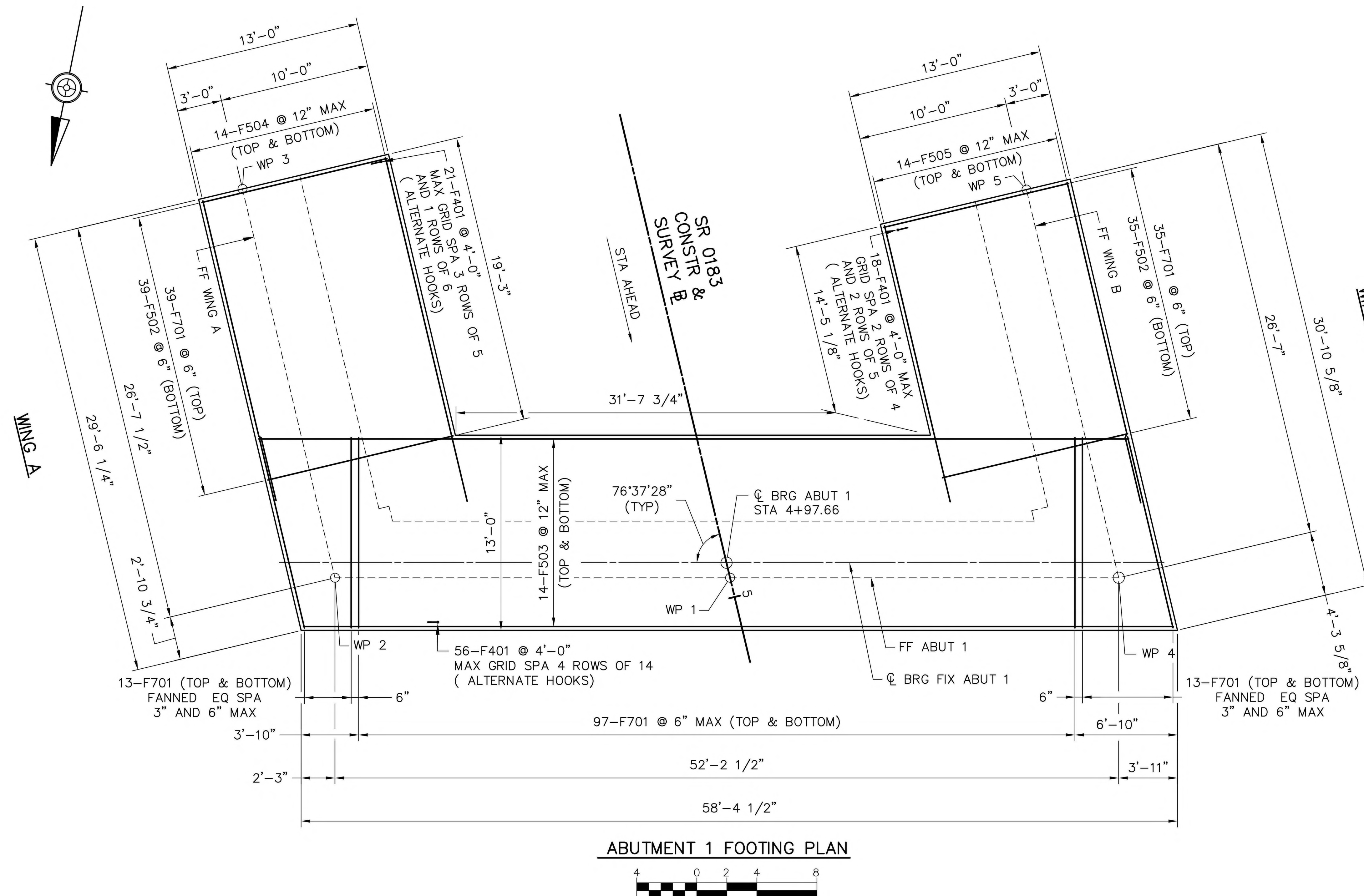
LEGEND:

- FF FRONT FACE
- RF REAR FACE
- WP WORK POINT
- CCNS CLOSED CELL NEOPRENE SPONGE
- (BX) DESIGNATES BEAM NUMBER

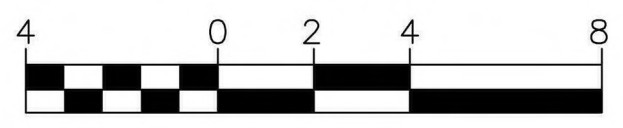
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ABUTMENT 1 FOOTING PLAN



FOUNDATION PRESSURES

ABUTMENT 1

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 41.2 KIP
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 13.8 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 24.9 KIP

WING A

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 38.6 KIP
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 11.8 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 26.0 KIP

WING B

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 39.5 KIP
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 12.8 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 26.6 KIP

LEGEND:

FF FRONT FACE
WP WORK POINT

NOTES:

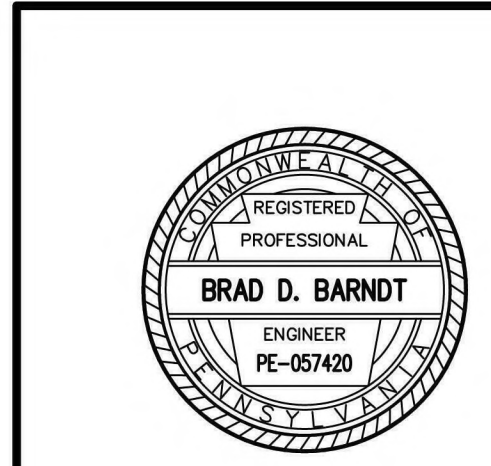
1. FOR GENERAL NOTES, SEE SHEET 3.
2. FOR STAKE-OUT PLAN, SEE SHEET 5.
3. FOR ADDITIONAL ABUTMENT 1 DETAILS, SEE SHEETS 7 & 9-13.
4. FOR ABUTMENT 1 REINFORCEMENT SCHEDULE, SEE SHEETS 14 & 15.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 1 FOOTING PLAN

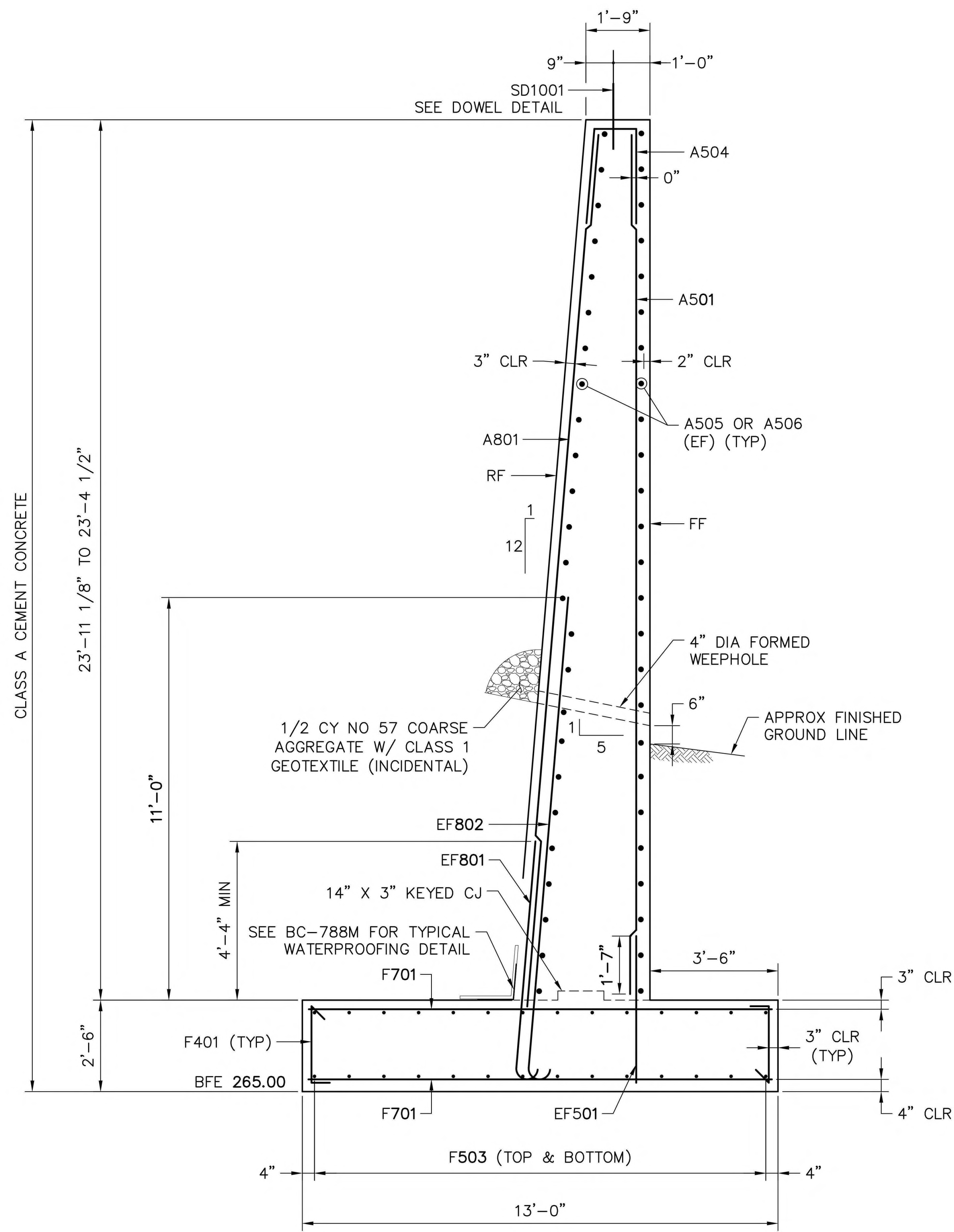


RECOMMENDED 10 / 27 / 2022 SHEET 8 OF 54

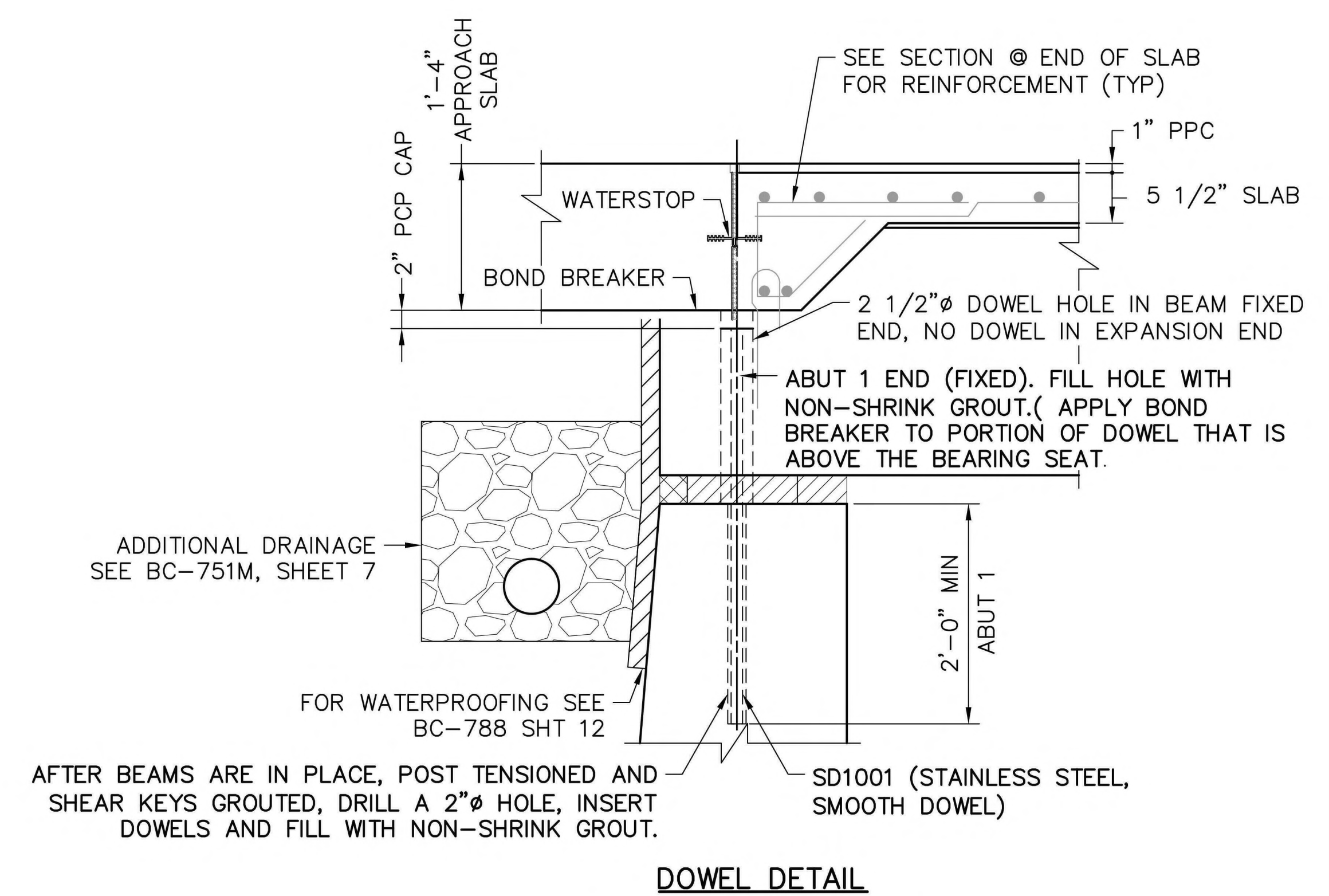
DES:	TML	CHK'D:	BDB
DWG:	JTP	CHK'D:	BDB

S-36195

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ABUTMENT 1 SECTION



DOWEL DETAIL

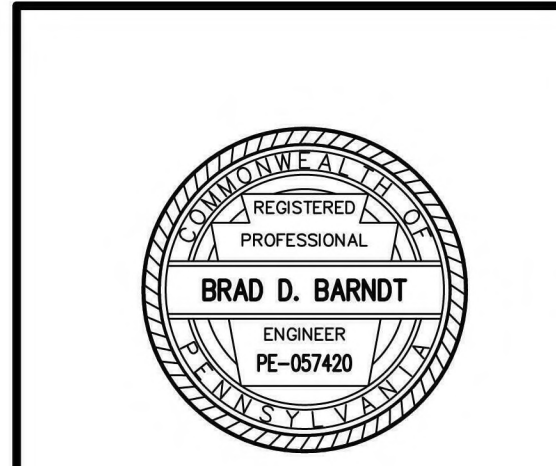
- LEGEND:**
- FF FRONT FACE
 - RF REAR FACE
 - EF EACH FACE
 - CJ CONSTRUCTION JOINT
 - PCP PERFORMED CELLULAR POLYSTYRENE
 - PPC POLYESTER POLYMER CONCRETE
- NOTES:**
1. FOR ADDITIONAL ABUTMENT DETAILS, SEE SHEETS 7 THRU 9, 11 & 12.
 2. FOR REINFORCEMENT BAR SCHEDULE, SEE SHEETS 13 & 14.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 1 TYPICAL SECTION & DOWEL DETAIL

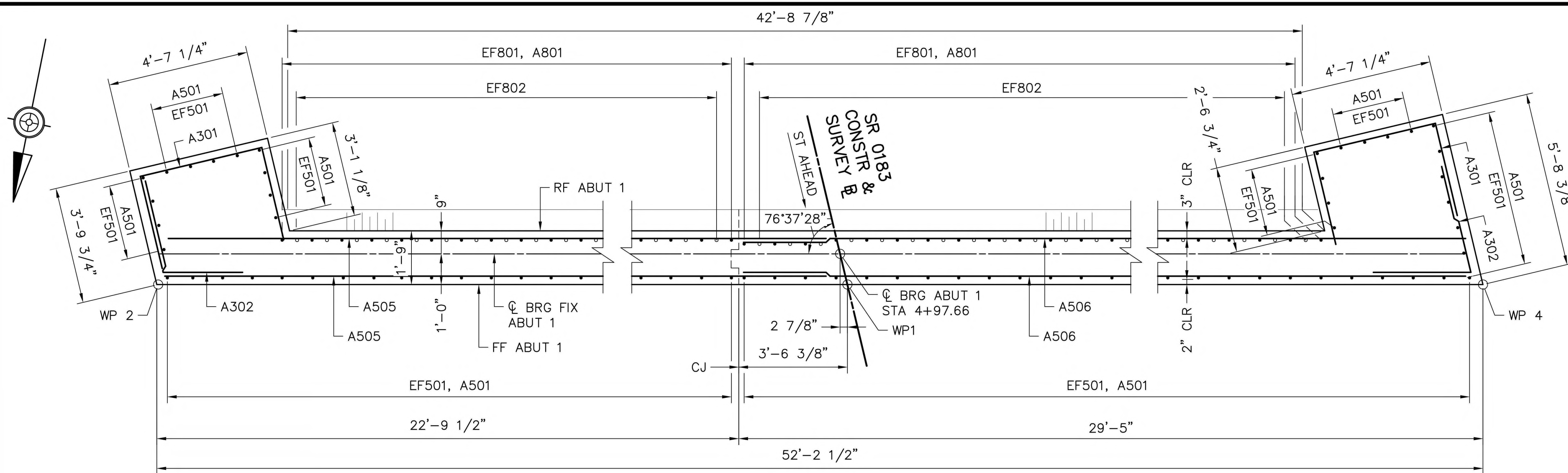


RECOMMENDED 10/27/2022 SHEET 10 OF 54

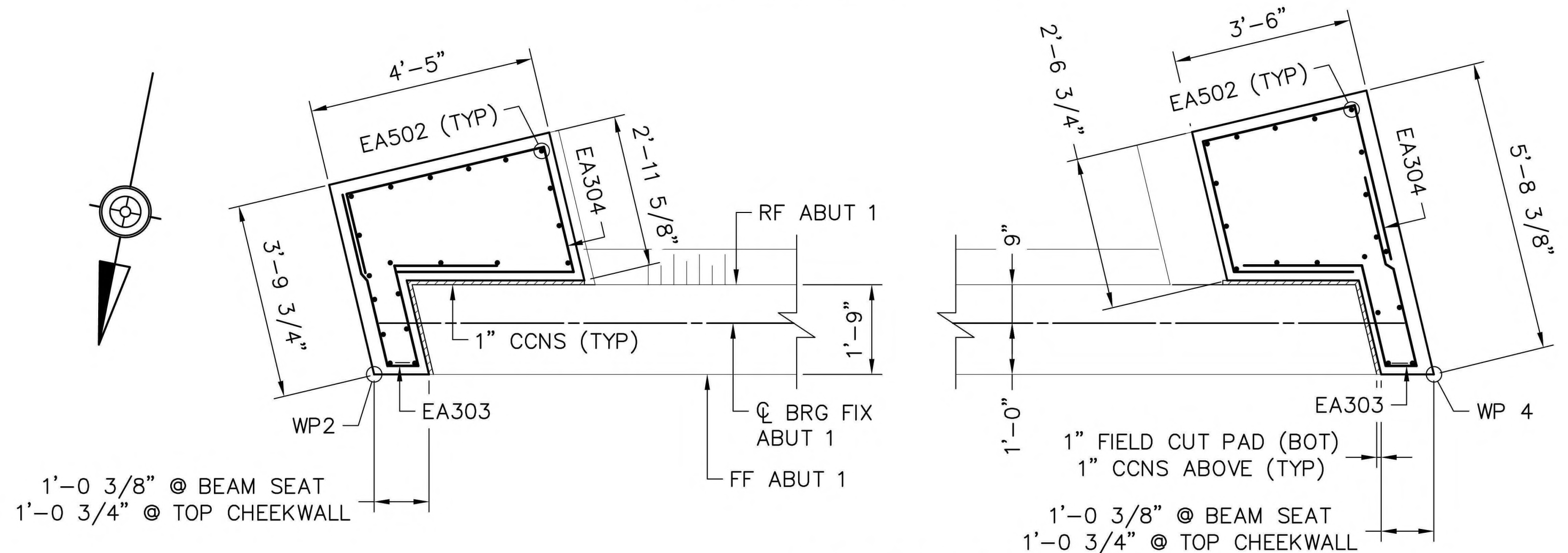
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DWG: JTP	CHK'D: BDB

S-36195

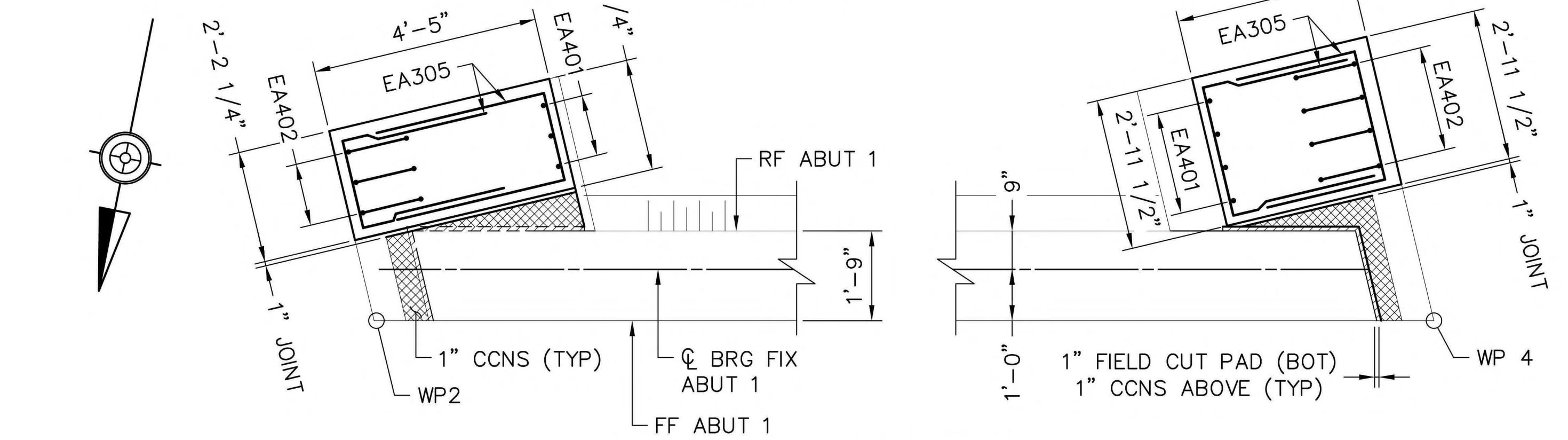
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SECTION A1-A1
 2 0 1 2 4 FEET



SECTION B1-B1
 2 0 1 2 4 FEET



SECTION C1-C1
 2 0 1 2 4 FEET

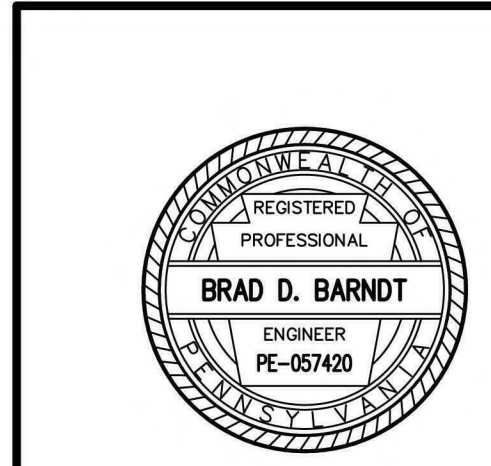
LEGEND:
 FF FRONT FACE
 RF REAR FACE
 WP WORK POINT
 CCNS CLOSED CELL NEOPRENE SPONGE

NOTES:
 1. FOR STAKE-OUT PLAN, SEE SHEET 5.
 2. FOR ADDITIONAL ABUT 1 DETAILS, SEE SHEETS 7 THRU 10, 12, & 13.
 3. FOR ABUTMENT 1 REINFORCEMENT SCHEDULE, SEE SHEETS 14 & 15.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

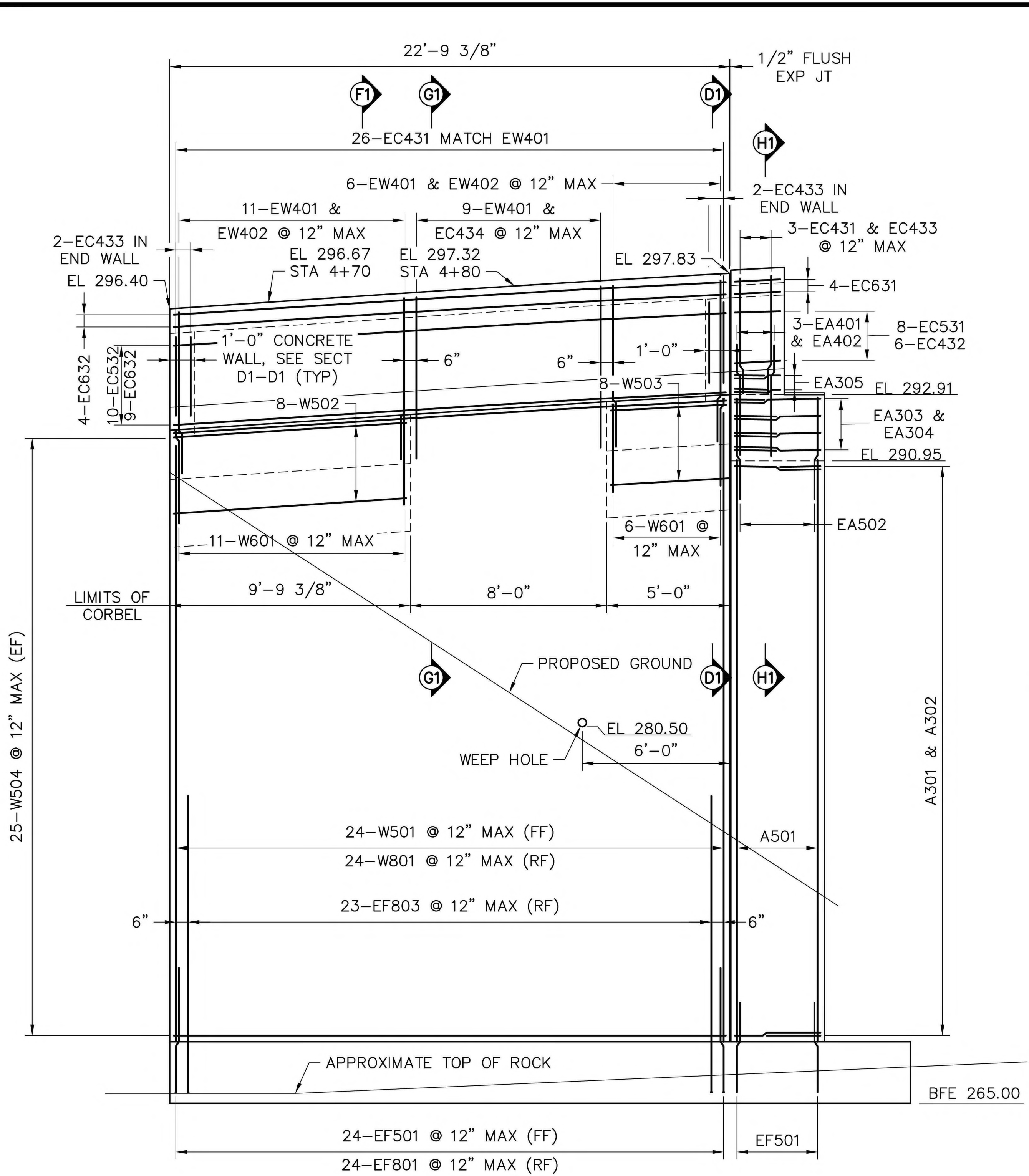
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 1 SECTIONS



RECOMMENDED 10/27/2022 SHEET 11 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

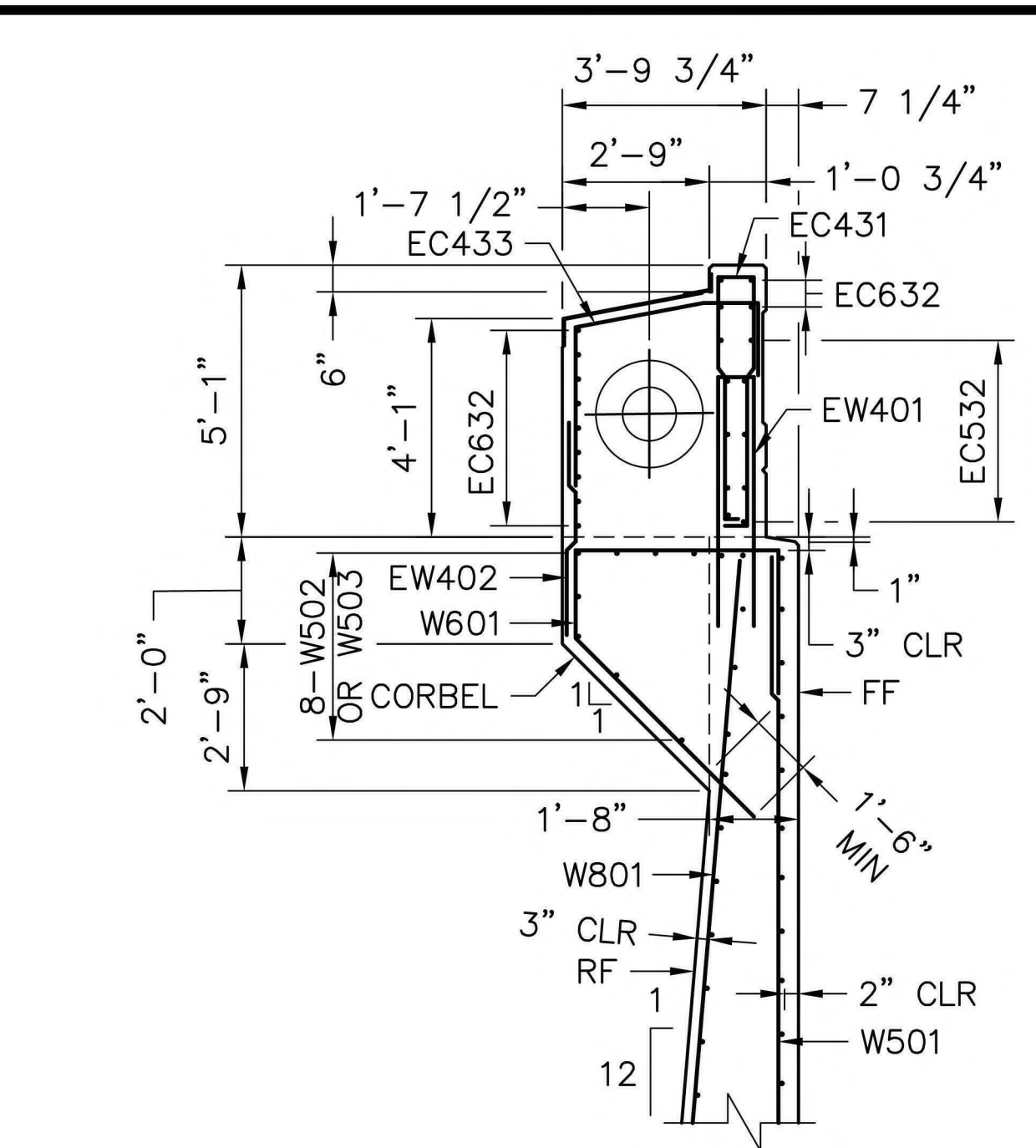


LEGEND:
 FF FRONT FACE
 RF REAR FACE
 EF EACH FACE
 CJ CONSTRUCTION JOINT

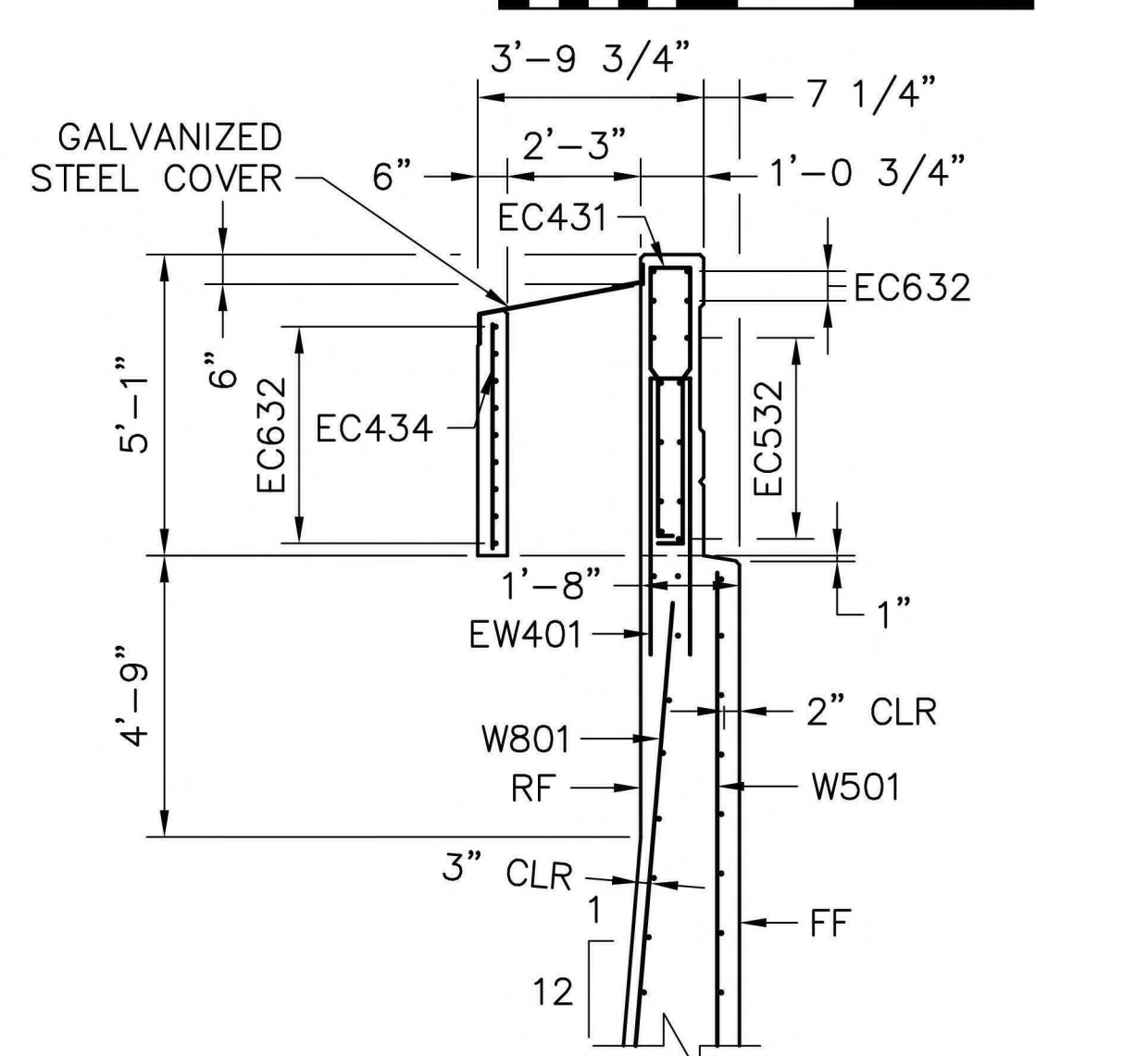
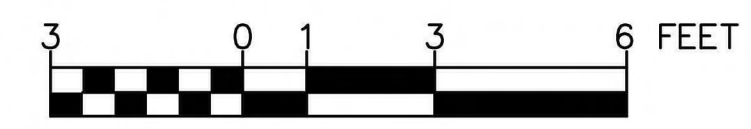
ELEVATION WING A
 (UTILITIES & PROTECTIVE FENCE NOT SHOWN FOR CLARITY)



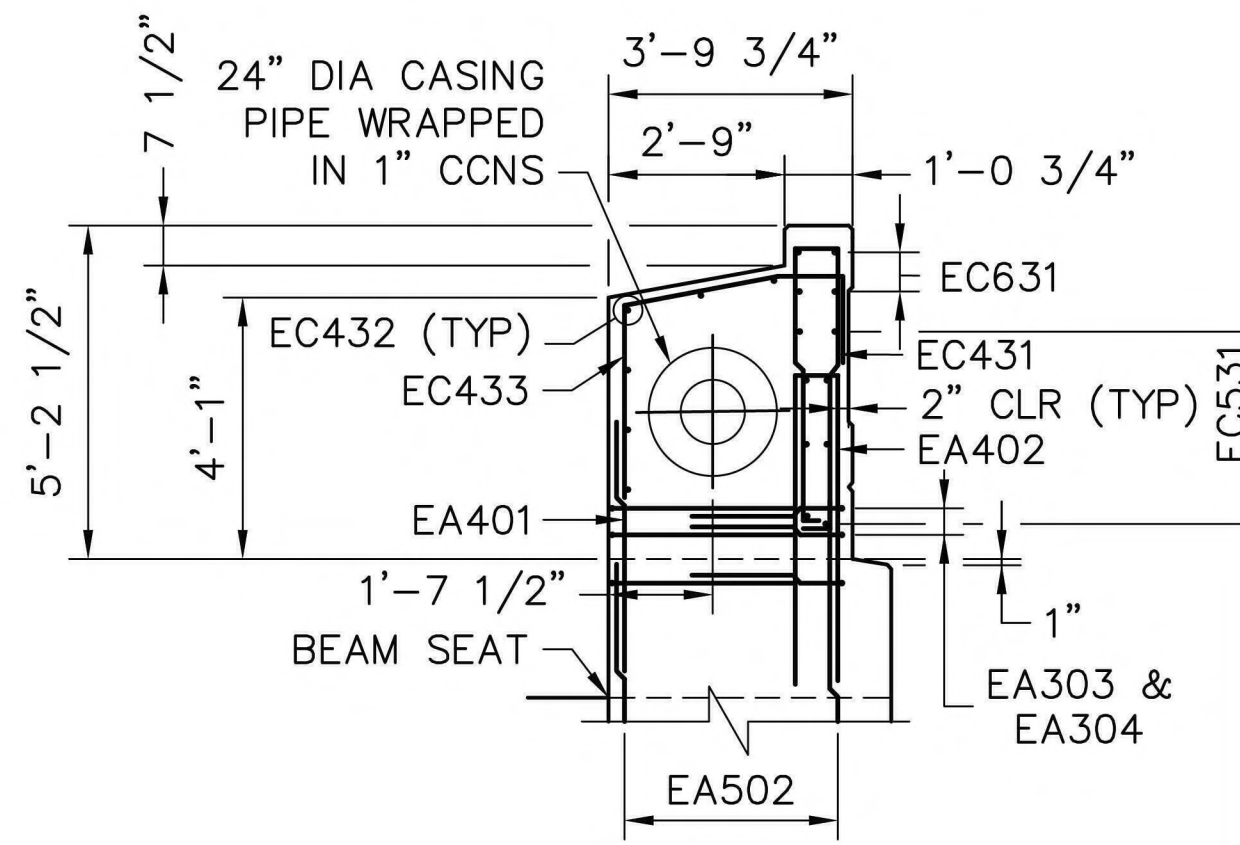
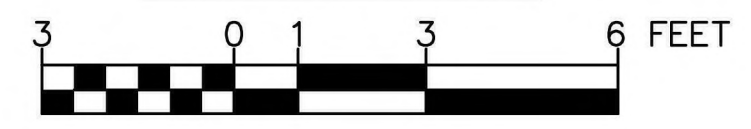
- NOTES:**
- FOR ADDITIONAL ABUT 1 DETAILS, SEE SHEETS 7 THRU 11, & 13.
 - FOR ABUTMENT 1 REINFORCEMENT SCHEDULE, SEE SHEETS 14 & 15.
 - FOR PROTECTIVE FENCE POST SPACING, SEE SHEET 33.



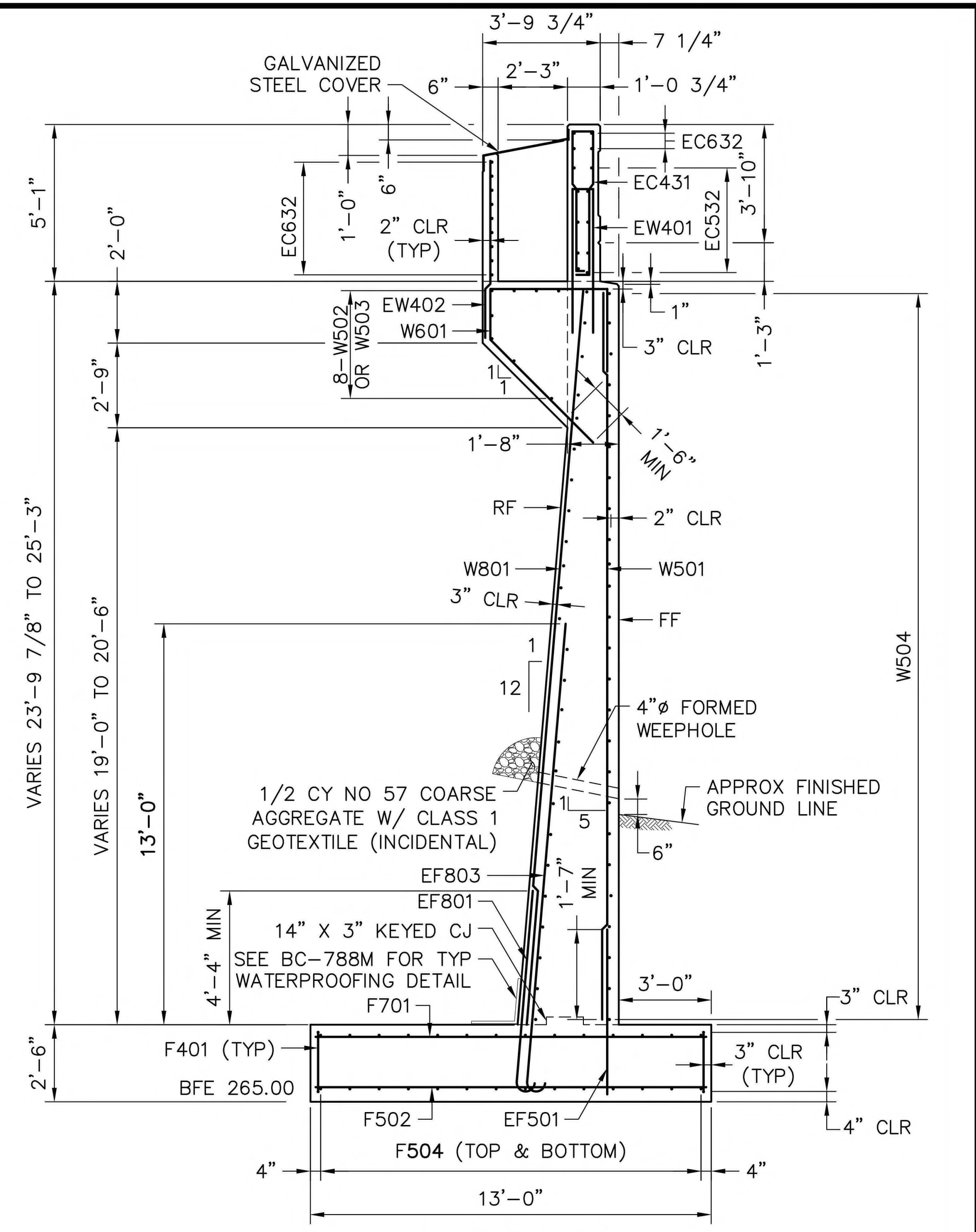
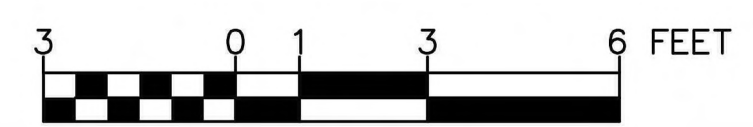
SECTION D1-D1



SECTION G1-G1



SECTION H1-H1



SECTION F1-F1



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
WING A ELEVATION & SECTIONS



RECOMMENDED 10/27/2022

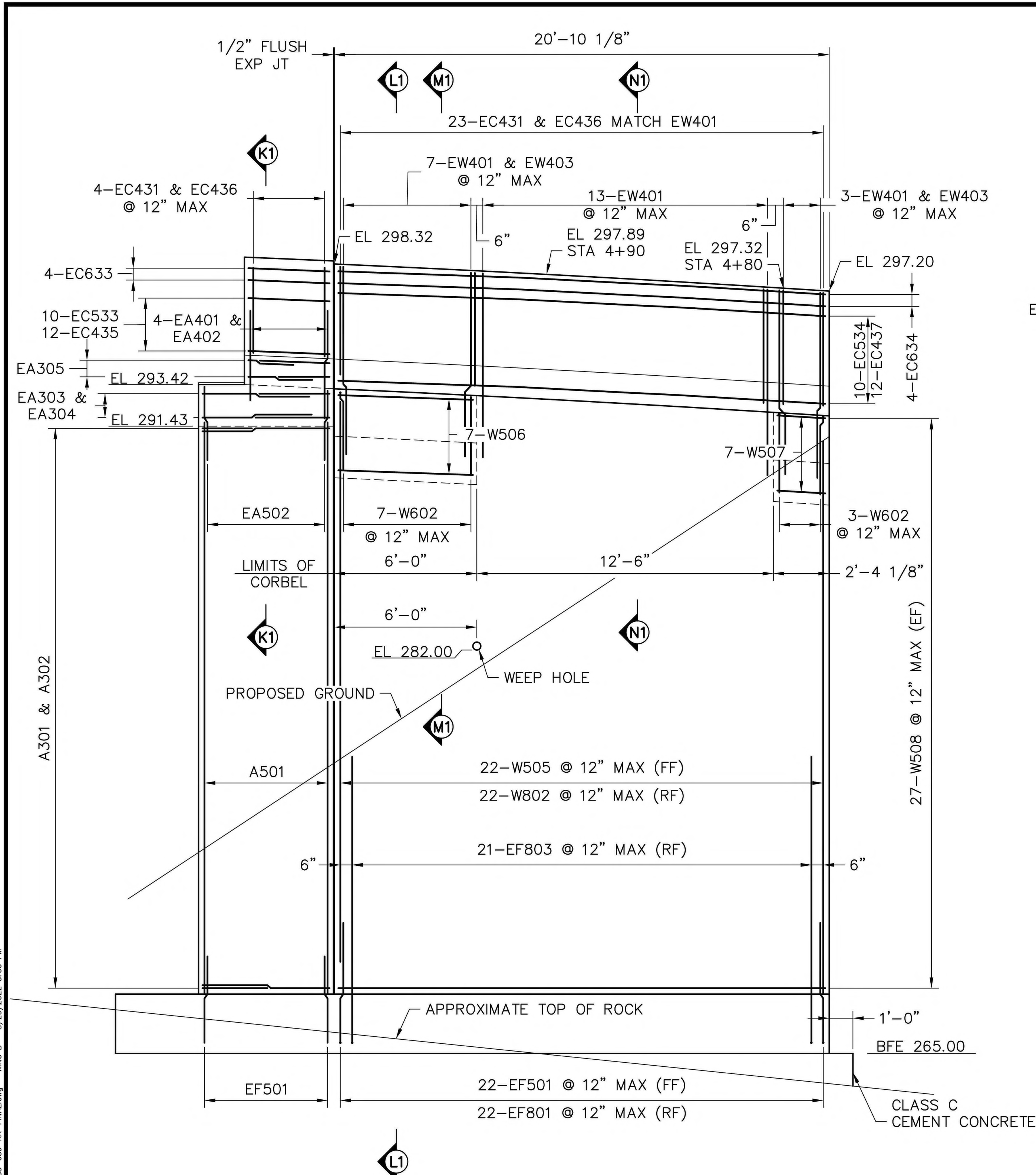
SHEET 12 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

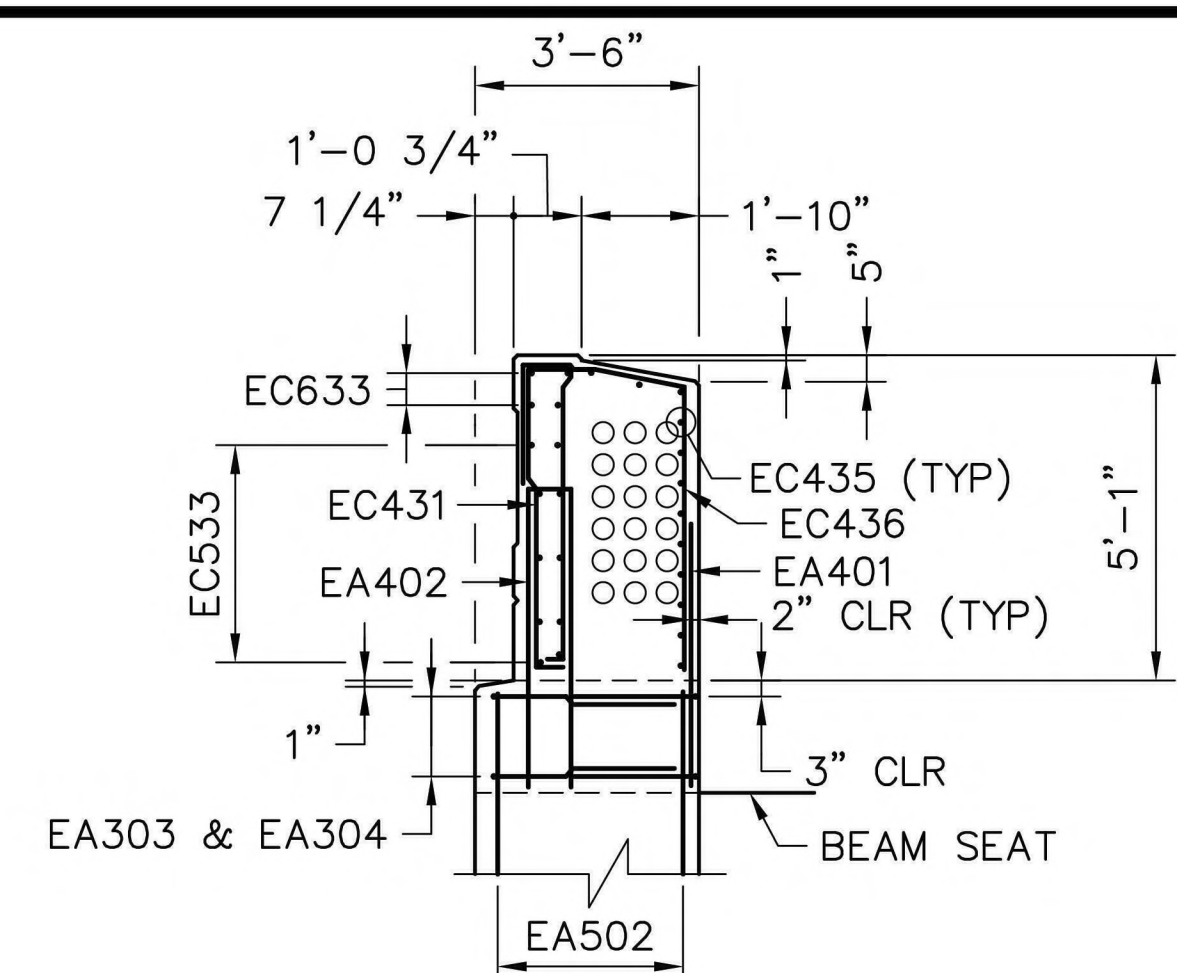
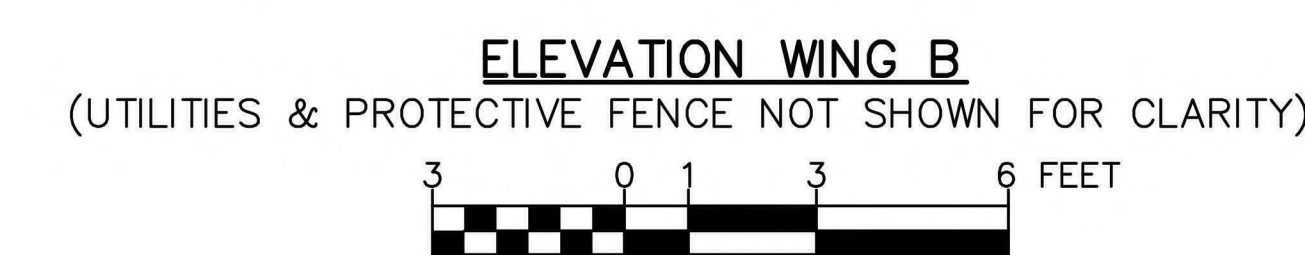
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W:\01\19A\0119-04-SR-0183\DWG\322013\bridge\DWG\0119-04-SR0183-05B-RR-FINAL.dwg - WING B - 8/29/2022 3:00 PM

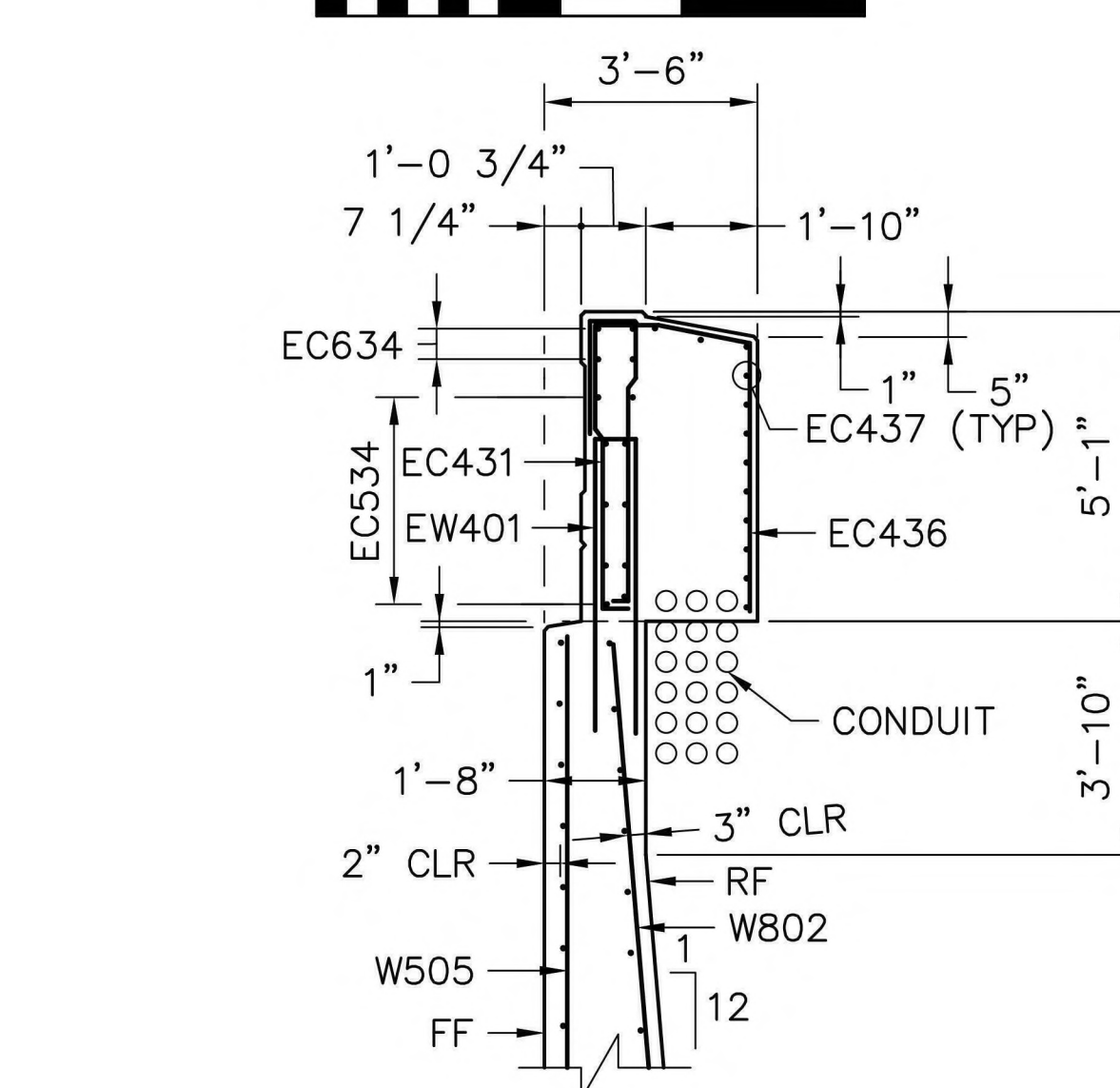


LEGEND:
 FF FRONT FACE
 RF REAR FACE
 EF EACH FACE
 CJ CONSTRUCTION JOINT

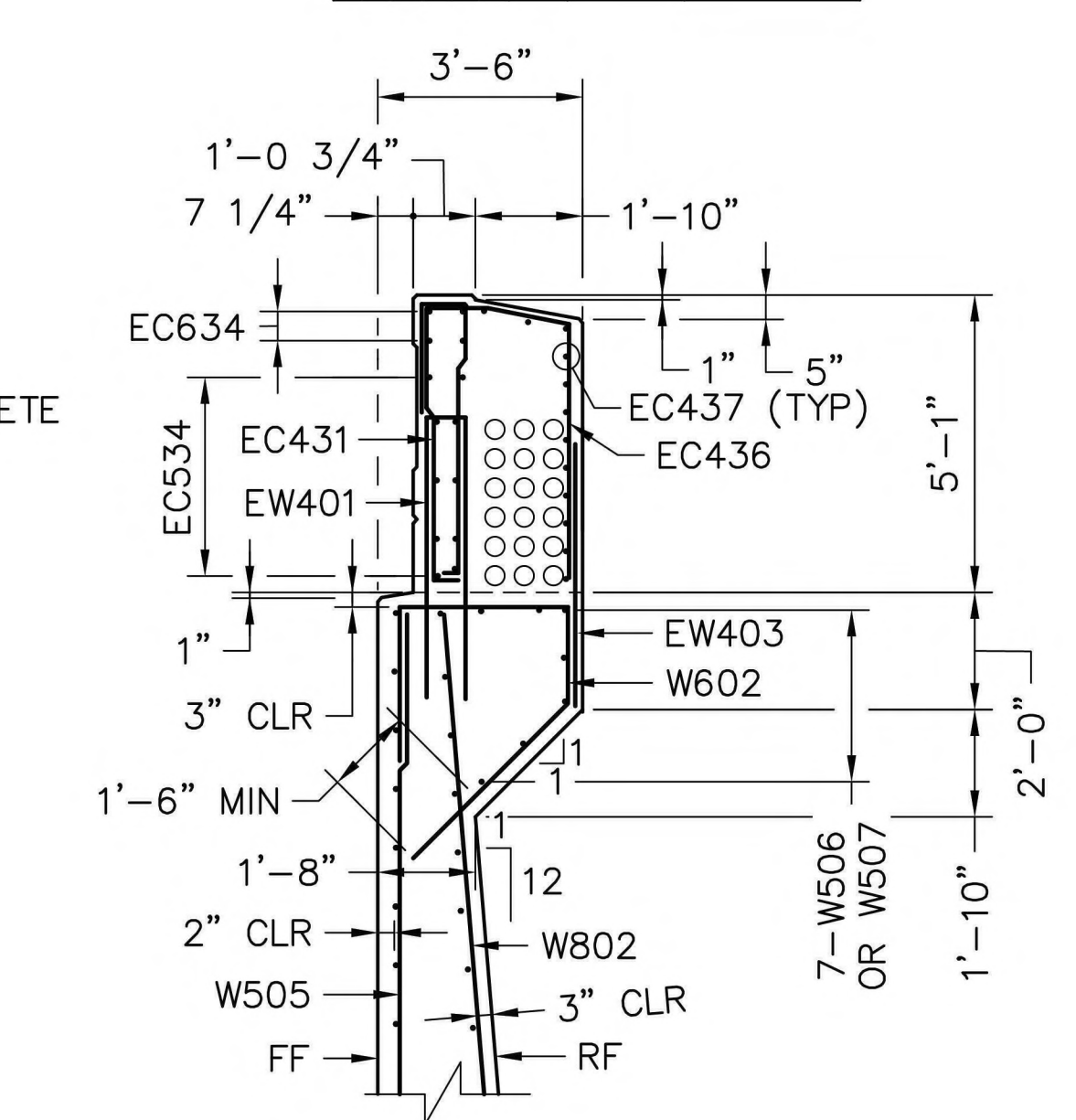
NOTES:
 1. FOR ADDITIONAL ABUT 1 DETAILS, SEE SHEETS 7 THRU 12.
 2. FOR ABUTMENT 1 REINFORCEMENT SCHEDULE, SEE SHEETS 14 & 15.
 3. FOR PROTECTIVE FENCE POST SPACING, SEE SHEET 33.



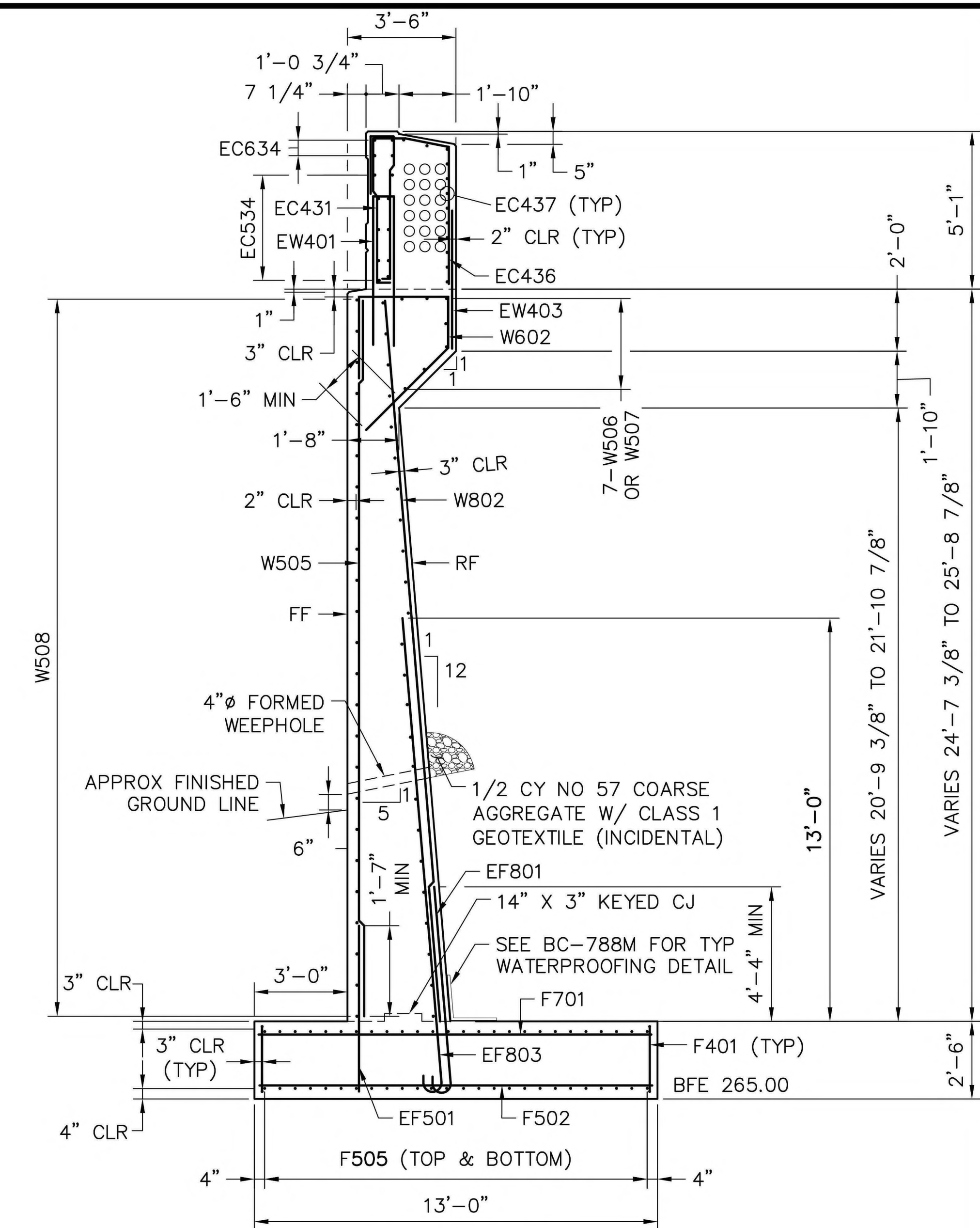
SECTION K1-K1



SECTION N1-N1



SECTION M1-M1



SECTION L1-L1

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 WING B ELEVATION & SECTIONS

RECOMMENDED 10/27/2022

SHEET 13 OF 54

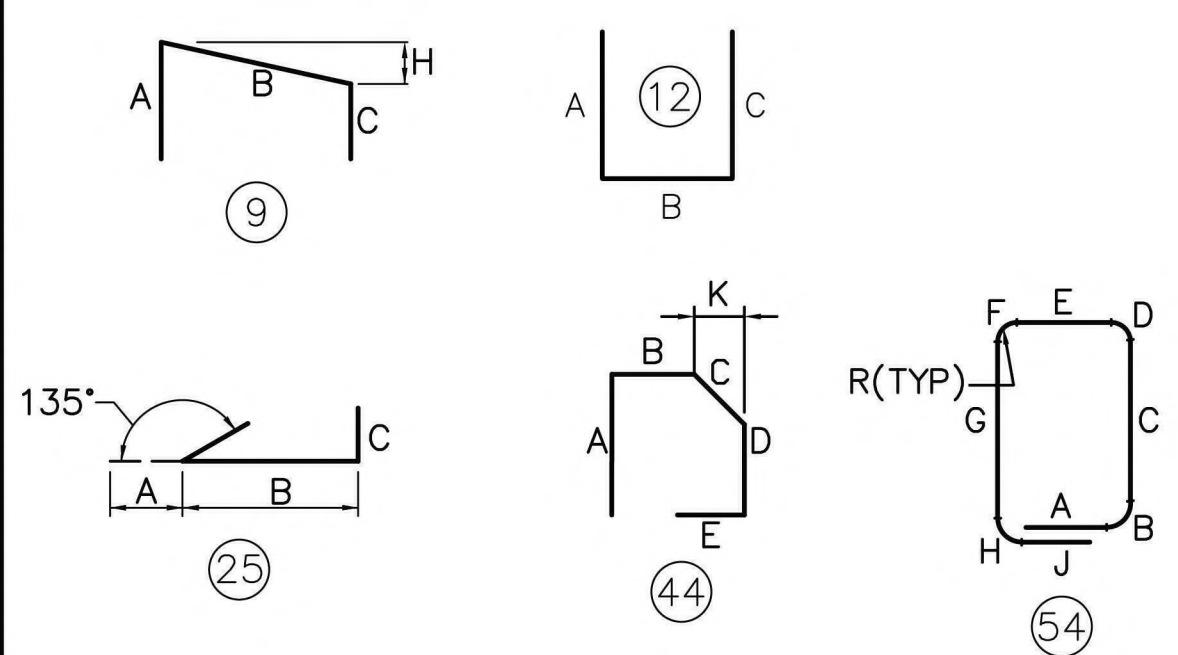
DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

REINFORCEMENT BAR SCHEDULE

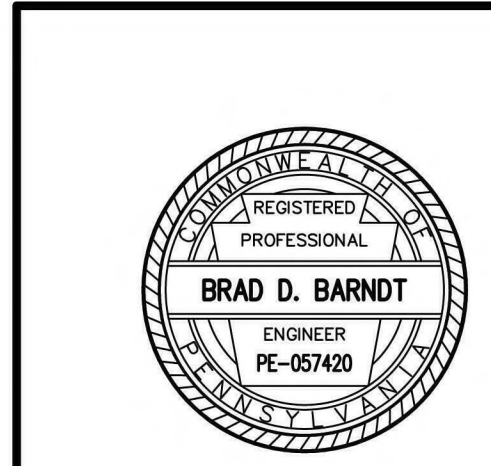
MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
A301	3	10'-8"	66	12	3'-1"	4'-2 1/4"	3'-4 3/4"									
A302	3	5'-3"	66	9	1'-8"	3'-7"	0"					3/4"				
EA303	3	7'-1"	8	STR												BEND IN FIELD
EA304	3	10'-6"	8	STR												BEND IN FIELD
EA305	3	7'-9"	8	STR												BEND IN FIELD
EA401	4	5'-2"	7	STR												
EA402	4	11'-0"	7	12	5'-2"	8"	5'-2"									
A403	4	4'-0"	56	STR												
A501	5	23'-0"	80	STR												
EA502	5	4'-10"	38	STR												
A504	5	6'-0"	54	12	2'-4"	1'-4"	2'-4"									
A505	5	26'-5"	50	STR												
A506	5	28'-1"	50	STR												
A801	8	23'-3"	45	STR												
EC431	4	10'-1 1/2"	56	54	3"	4"	4'-9"	4"	3"	4"	4'-9"	4"	5 1/2"			
EC432	4	1'-10"	6	STR												
EC433	4	8'-2 3/4"	7	9	2'-8"	3'-5 3/4"	2'-1"					8 1/2"				
EC434	4	3'-9"	9	STR												
EC435	4	2'-7 1/2"	12	STR												
EC436	4	9'-0 1/2"	27	44	2'-2"	8"	1'-10 1/2"	4'-4"	0"					1'-10"		
EC437	4	20'-6"	12	STR												
EC531	5	1'-10"	8	STR												
EC532	5	22'-5 1/2"	10	STR												
EC533	5	2'-7 1/2"	10	STR												
EC534	5	20'-6"	10	STR												
EC631	6	1'-10"	4	STR												
EC632	6	22'-5 1/2"	13	STR												
EC633	6	2'-7 1/2"	4	STR												
EC634	6	20'-6"	4	STR												
SD1001	10	3'-6"	12	STR												1 1/4" DIA SMOOTH DOWEL, STAINLESS STEEL
F401	4	2'-9"	95	25	4 1/2"	2'-0"	4 1/2"									
EF501	5	4'-6"	126	STR												
F502	5	12'-6"	74	STR												
F503	5	57'-10 1/2"	28	STR												
F504	5	22'-3"	28	STR												
F505	5	20'-6"	28	STR												
F701	7	12'-6"	320	STR												

W:\01\19A\0119A-04-SR-0183\DWG\CD2022\19A-04-SR-0183-05B-FR-FINAL.dwg - ABUT 1 BAR SCHEDULE - 8/29/2022 3:00 PM



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					



SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 1 BAR SCHEDULE - 1

RECOMMENDED 10 / 27 / 2022

SHEET 14 OF 54

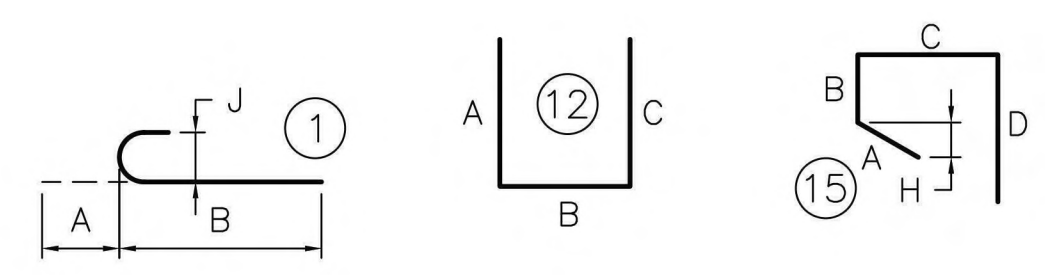
S-36195

DES: TML CHK'D: BDB
DWG: JTP CHK'D: BDB

REINFORCEMENT BAR SCHEDULE

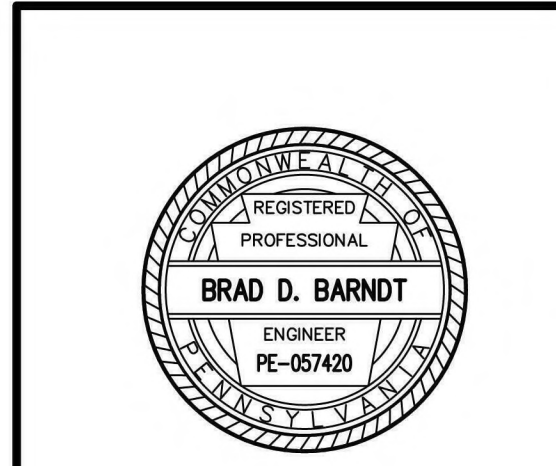
MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
EF801	8	8'-0"	91	1	11"	7'-1"							8"		3"	
EF802	8	14'-2"	43	1	11"	13'-3"							8"		3"	
EF803	8	16'-2"	44	1	11"	15'-3"							8"		3"	
EW401	4	8'-8"	49	12	4'-0"	8"	4'-0"									
EW402	4	5'-8"	17	STR												
EW403	4	4'-0"	10	STR												
W501	5	VARIES 23'-4" TO 24'-10"	24	STR												6 SETS OF 4, STEP EA SET BY 3"
W502	5	9'-3"	8	STR												
W503	5	4'-6"	8	STR												
W504	5	22'-3"	50	STR												
W505	5	VARIES 24'-2" TO 25'-1"	22	STR												11 SETS OF 2, STEP EA SET BY 1"
W506	5	5'-6"	7	STR												
W507	5	1'-10"	7	STR												
W508	5	20'-6"	54	STR												
W601	6	12'-10 1/2"	17	15	5'-0 1/2"	1'-6"	4'-0"	2'-4"					3'-6 3/4"			
W602	6	10'-8"	10	15	3'-9"	1'-6"	3'-1"	2'-4"					2'-7 3/4"			
W801	8	VARIES 23'-7" TO 25'-1"	24	STR												6 SETS OF 4, STEP EA SET BY 3"
W802	8	VARIES 24'-5" TO 25'-4"	22	STR												11 SETS OF 2, STEP EA SET BY 1"

W:\01\19A\0119A-04-SR-0183\DWG\CD2022\Bridg DWG\0119A-04-SR0183-05B-RR-FINAL.dwg - ABUT 1 BAR SCHEDULE (2) - 8/19/2022 3:00 PM



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					



SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

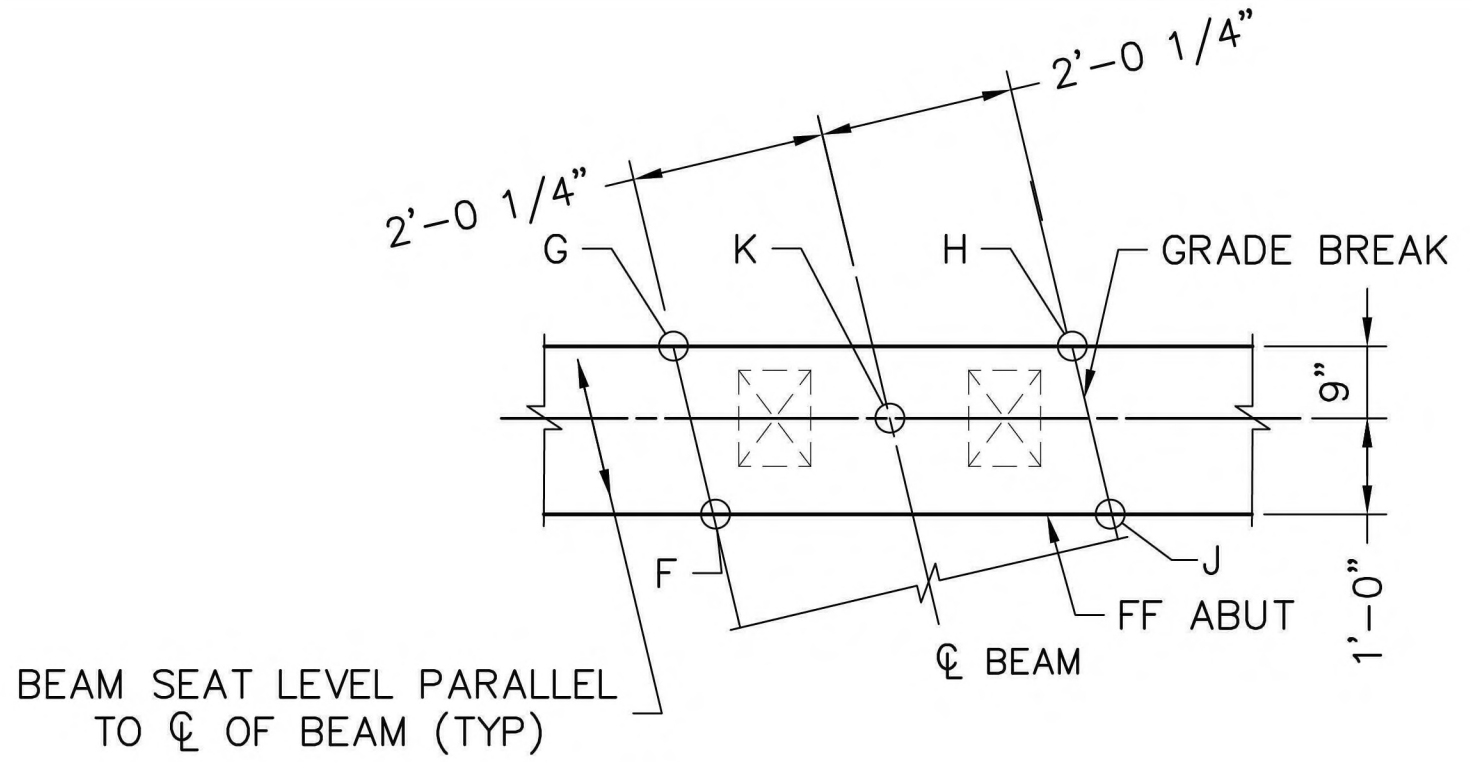
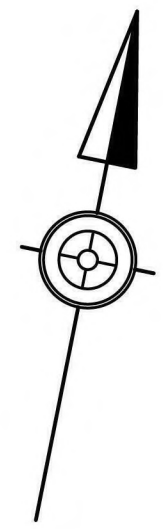
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 1 BAR SCHEDULE - 2

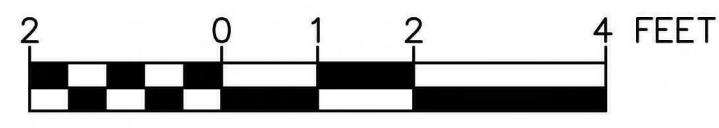
RECOMMENDED 10 / 27 / 2022 SHEET 15 OF 54

S-36195

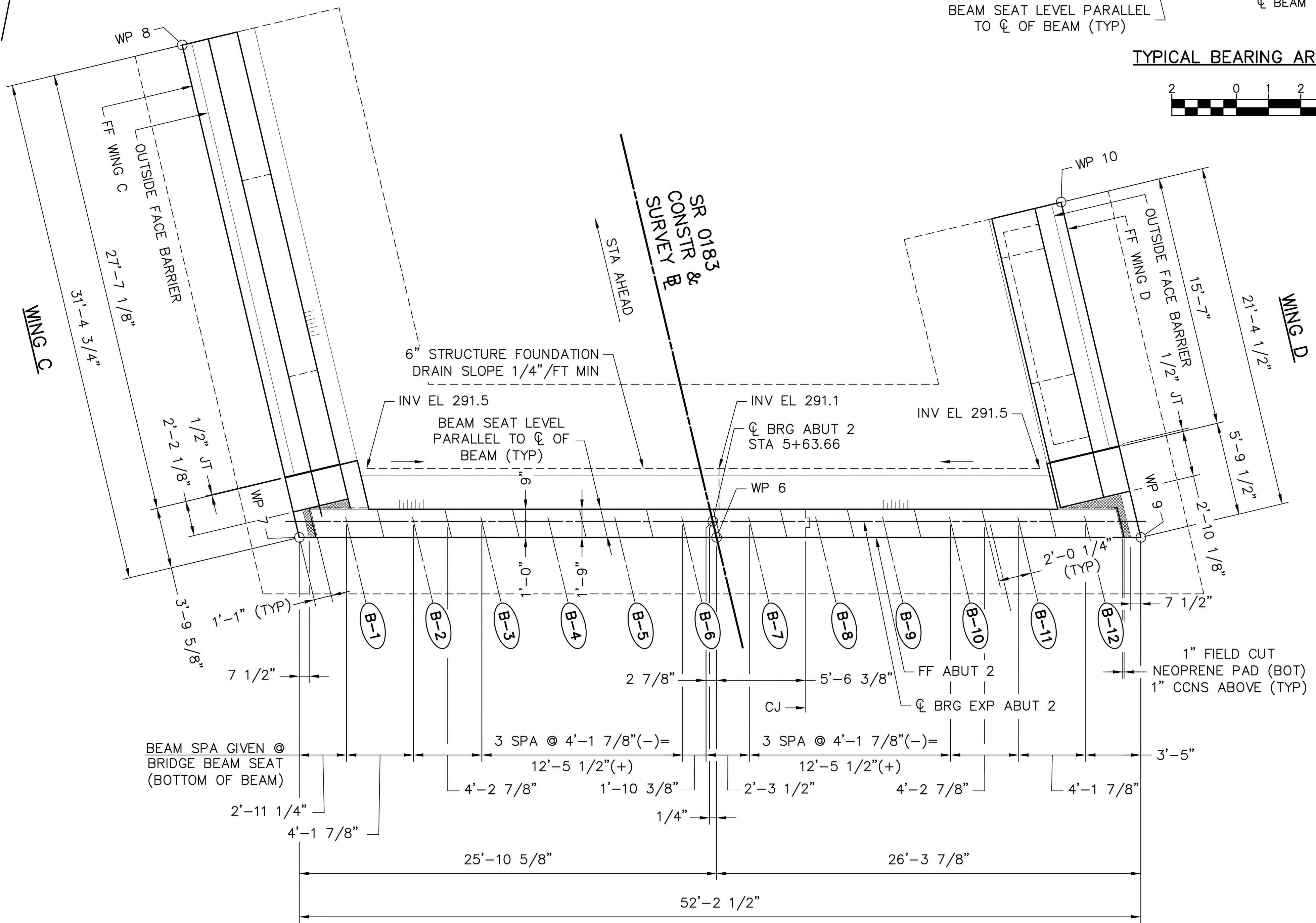
DES: TML CHK'D: BDB
DWG: JTP CHK'D: BDB



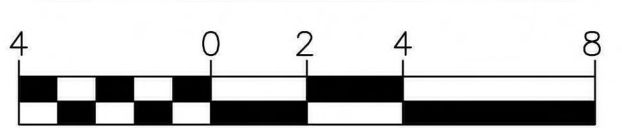
TYPICAL BEARING AREA DETAIL



BEARING ELEVATIONS AT ABUTMENT 2					
	ELEVATION				
	F	G	H	J	K
BEAM 1	291.91	291.91	291.85	291.85	291.88
BEAM 2	291.87	291.87	291.81	291.81	291.84
BEAM 3	291.83	291.83	291.91	291.91	291.87
BEAM 4	291.93	291.93	292.01	292.01	291.97
BEAM 5	292.03	292.03	292.11	292.11	292.07
BEAM 6	292.13	292.13	292.21	292.21	292.17
BEAM 7	292.22	292.22	292.14	292.14	292.18
BEAM 8	292.16	292.16	292.07	292.07	292.11
BEAM 9	292.09	292.09	292.01	292.01	292.05
BEAM 10	292.02	292.02	291.94	291.94	291.98
BEAM 11	291.96	291.96	292.02	292.02	291.99
BEAM 12	292.03	292.03	292.09	292.09	292.06



ABUTMENT 2 PLAN



LEGEND:

- FF FRONT FACE
- RF REAR FACE
- WP WORK POINT
- CCNS CLOSED CELL NEOPRENE SPONGE
- (B-X) DESIGNATES BEAM NUMBER

NOTES:

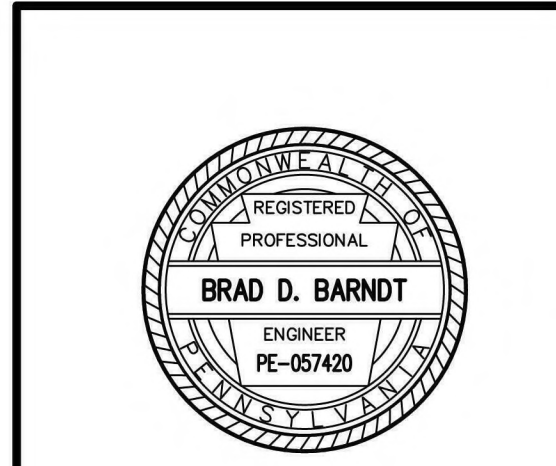
1. FOR GENERAL NOTES, SEE SHEET 3.
2. FOR STAKE-OUT PLAN, SEE SHEET 5.
3. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 17-22.
4. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.
5. FOR FRAMING PLAN, SEE SHEET 25.
6. FOR FENCE PLAN, SEE SHEET 33.
7. FOR UTILITIES DETAILS, SEE SHEETS 47 & 48.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 ABUTMENT 2 PLAN



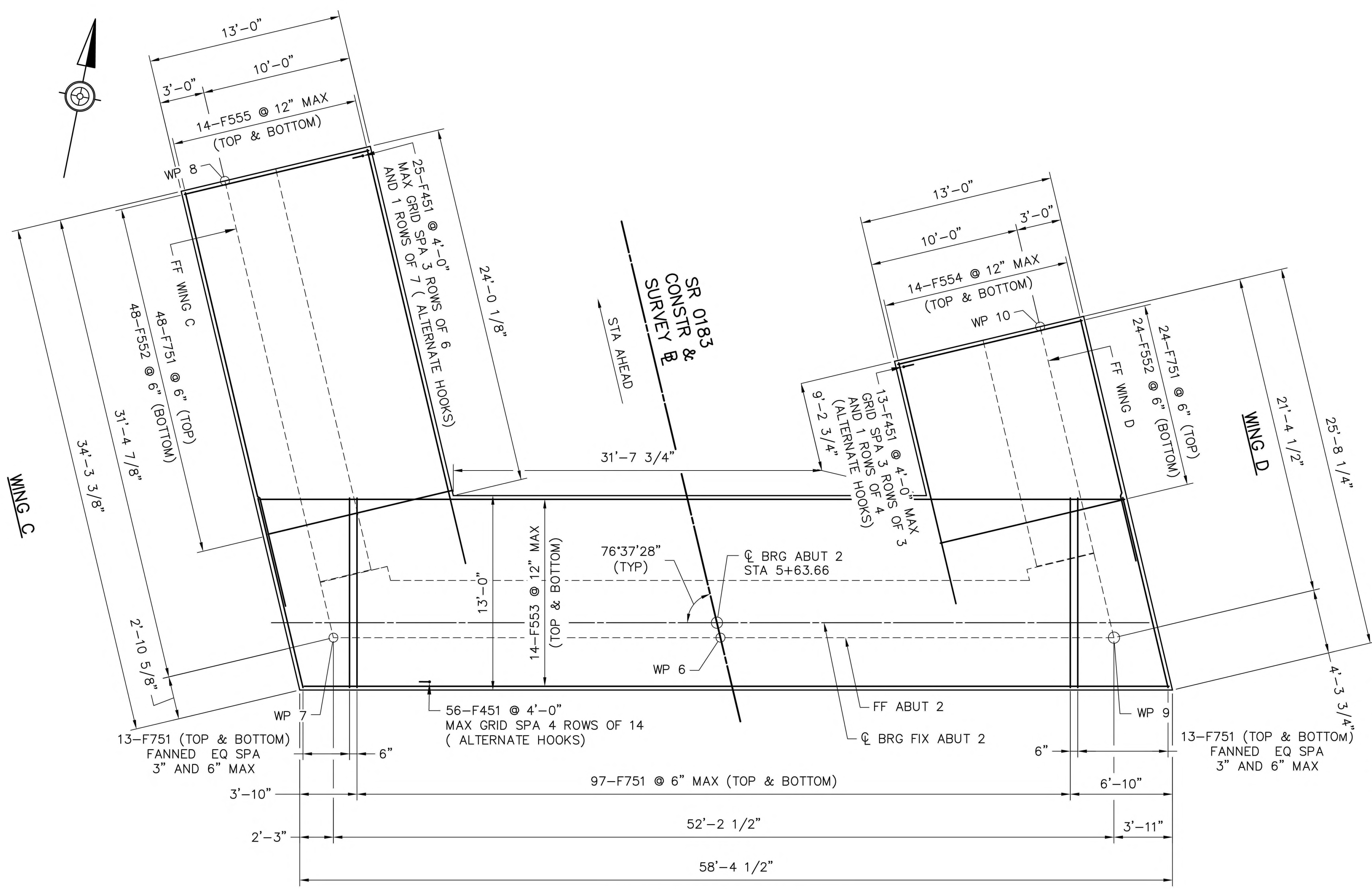
RECOMMENDED 10 / 27 / 2022 SHEET 16 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

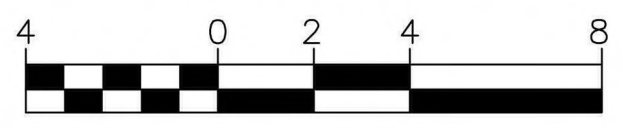
S-36195

W:\01\19A\0119A-04-SR_0183\DWG\CD2022\Bridg\DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - ABUT 2 PLAN - 8/29/2022 3:00 PM

W:\01\19A\0119-04-SR-0183\DWG\CD\2022\Bridg\BMS\0119-04-SR-0183-05B-FR-FINAL.dwg - ABUT 2 FOOTING - 8/29/2022 3:00 PM



ABUTMENT 2 FOOTING PLAN



FOUNDATION PRESSURES

ABUTMENT 2

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 43.7 K/FT
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 18.0 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 30.3 K/FT

WING C

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 39.8 K/FT
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 13.5 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 28.7 K/FT

WING D

- FACTORED BEARING RESISTANCE @ STRENGTH I = 32.0 KSF
- FACTORED SLIDING RESISTANCE @ STRENGTH I = 41.1 K/FT
- MAX. FACTORED BEARING PRESSURE @ STRENGTH I = 14.9 KSF
- MAX. FACTORED HORIZONTAL LOAD @ STRENGTH I = 28.0 K/FT

LEGEND:

- FF FRONT FACE
- WP WORK POINT

NOTES:

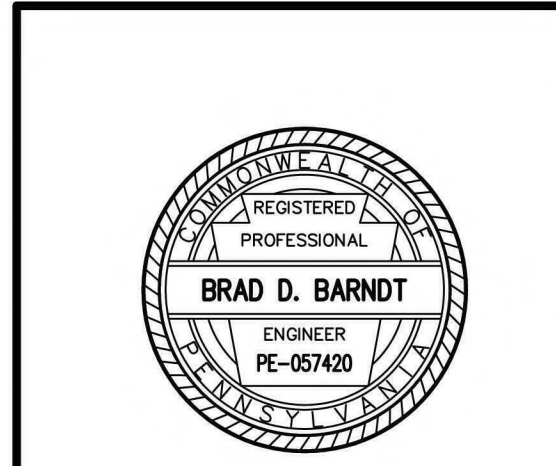
1. FOR STAKE-OUT PLAN, SEE SHEET 5.
2. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 17, & 19-23.
3. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

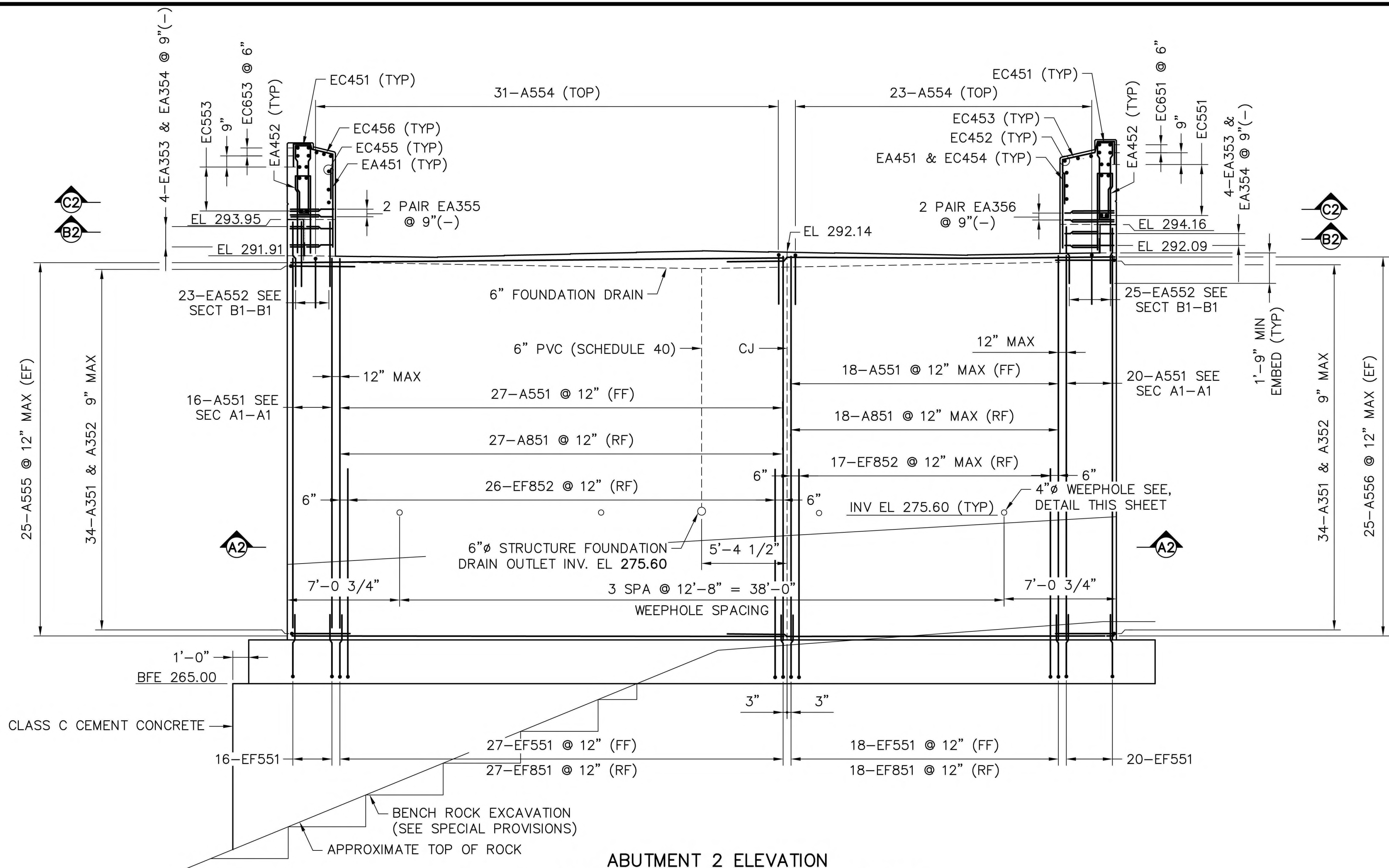
BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 2 FOOTING PLAN



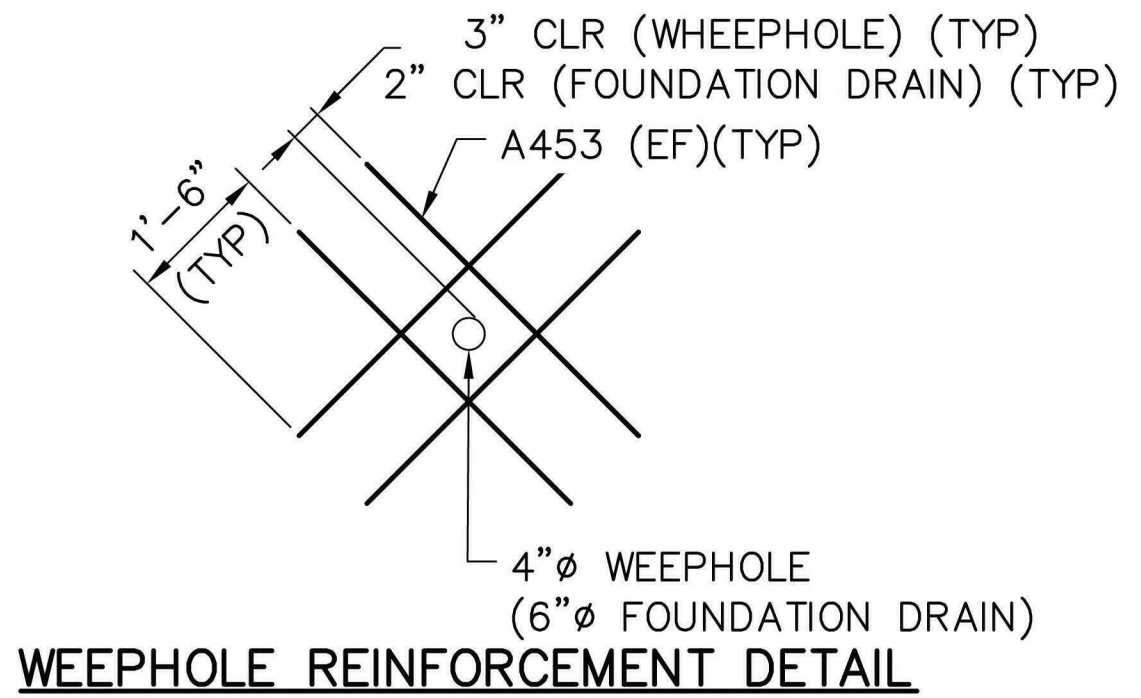
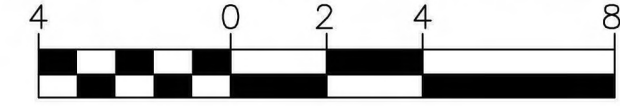
RECOMMENDED 10/27/2022 SHEET 17 OF 54

DES:	TML	CHK'D:	BDB
DWG:	JTP	CHK'D:	BDB

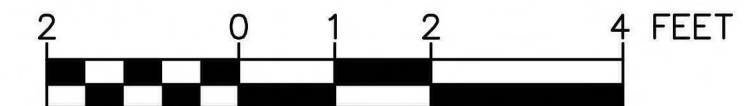
S-36195



ABUTMENT 2 ELEVATION
(UTILITIES & PROTECTIVE FENCE NOT SHOWN FOR CLARITY)



WEEPHOLE REINFORCEMENT DETAIL



LEGEND:

- FF FRONT FACE
- RF REAR FACE
- EF EACH FACE
- CJ CONSTRUCTION JOINT
- CCNS CLOSED CELL NEOPRENE SPONGE
- PCP PREFORMED CELLULAR POLYSTYRENE
- PVC POLYVINYL CHLORIDE PIPE

NOTES:

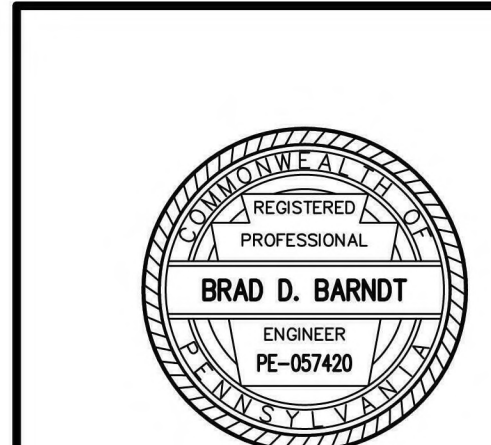
1. FOR STAKE-OUT PLAN, SEE SHEET 5.
2. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 16, 17, & 19-22.
3. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.
4. FOR UTILITIES DETAILS, SEE SHEETS 47 & 48.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 2 ELEVATION



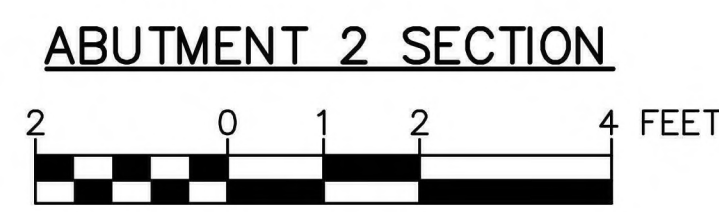
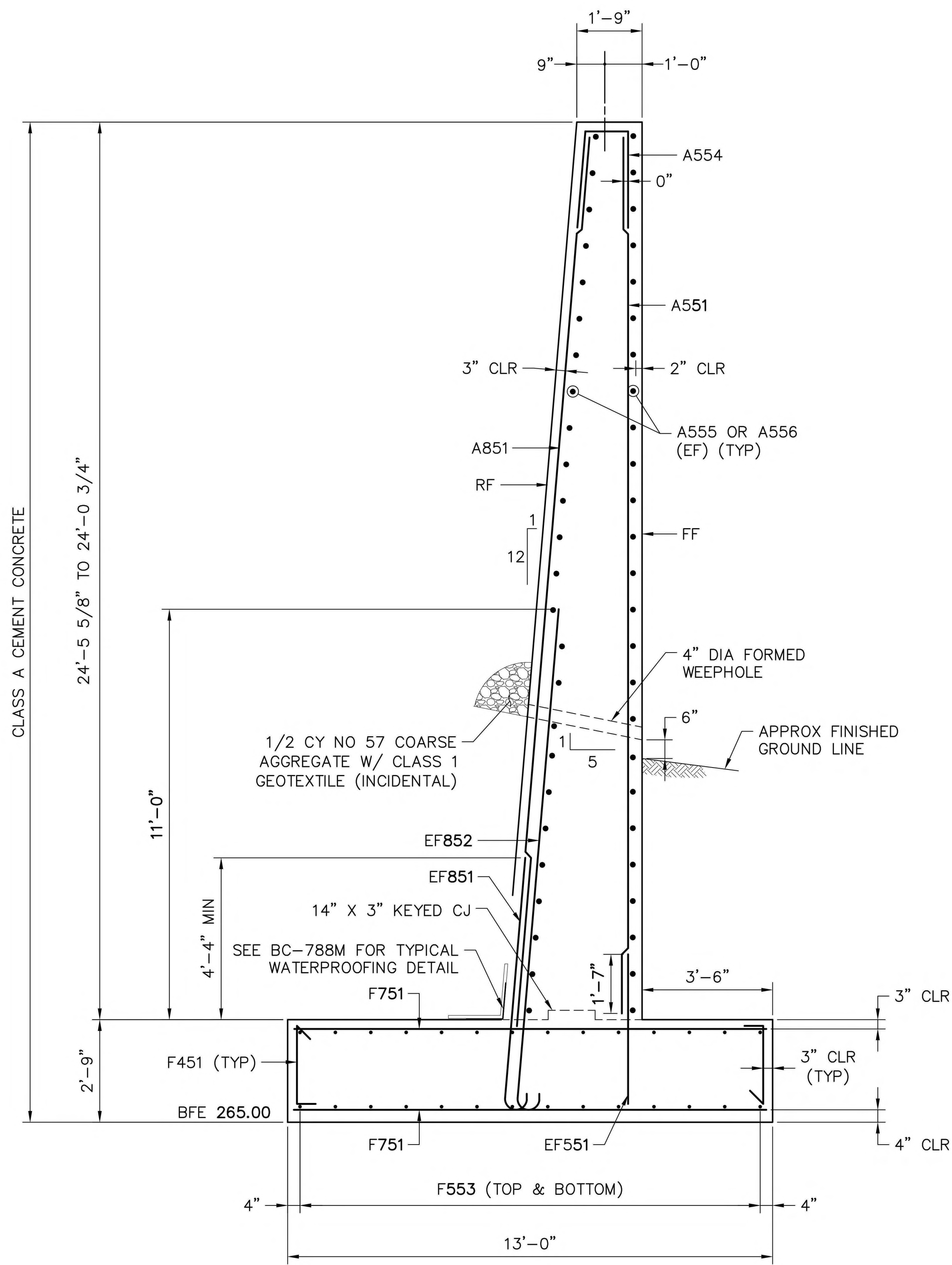
RECOMMENDED 10/27/2022 SHEET 18 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

W:\01\19A\0119-04-SR-0183\DWG\320213.dwg: D:\CS\0119-04-SR-0183-05B-RR-FINAL.dwg - ABUT 2 ELEV - 8/29/2022 3:00 PM

W:\01\194\01194-04-SR-0183\DWG\CAD\2022\Bridges\DWG\01194-04-SR0183-05B-FR-FINAL.dwg - ABUT 2 SECT - 8/28/2022 3:00 PM



LEGEND:
 FF FRONT FACE
 RF REAR FACE
 EF EACH FACE
 CJ CONSTRUCTION JOINT

NOTES:
 1. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 16 THRU 18, 20, 21, & 22.
 4. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

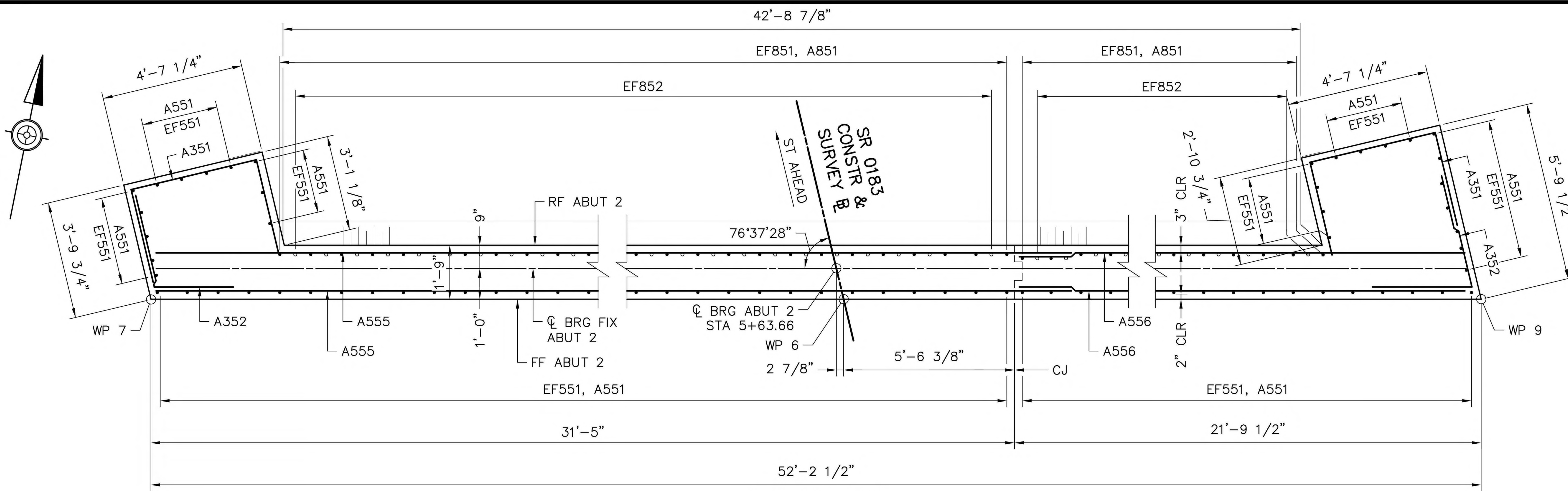
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 ABUTMENT 2 TYPICAL SECTION



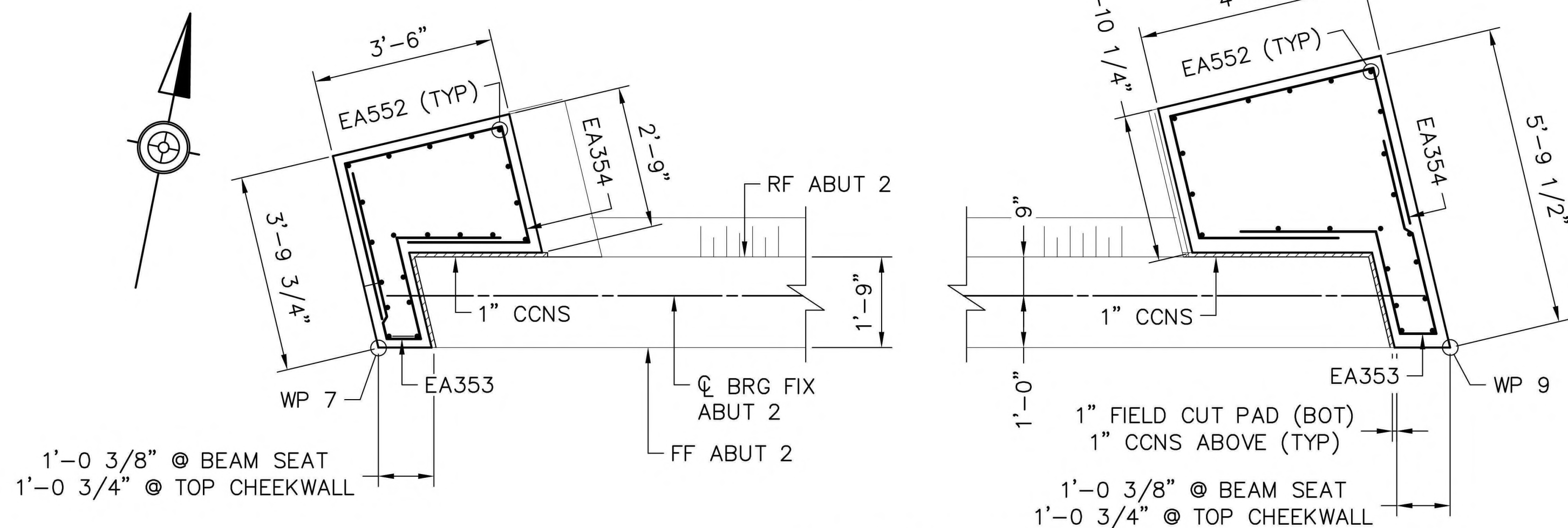
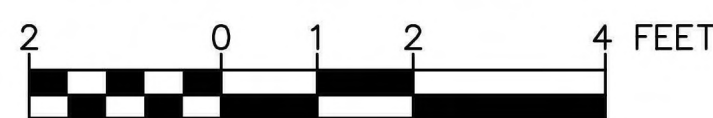
RECOMMENDED 10/27/2022 SHEET 19 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

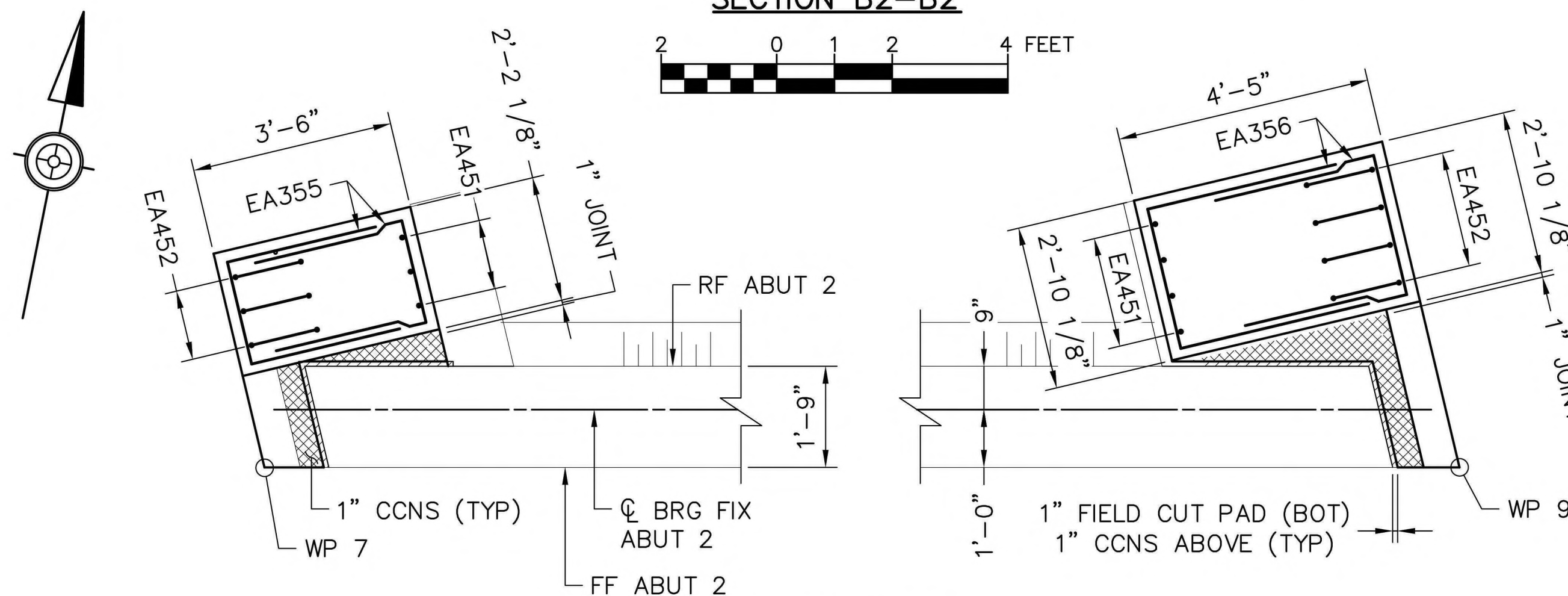
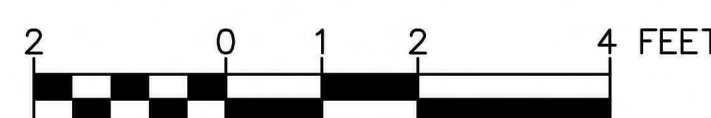
S-36195



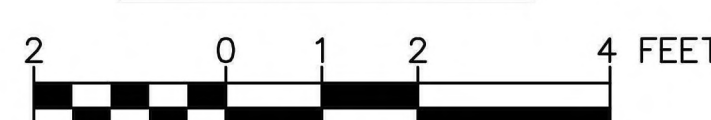
SECTION A2-A2



SECTION B2-B2



SECTION C2-C2



LEGEND:

- FF FRONT FACE
- RF REAR FACE
- WP WORK POINT
- CJ CONSTRUCTION JOINT
- CCNS CLOSED CELL NEOPRENE SPONGE

NOTES:

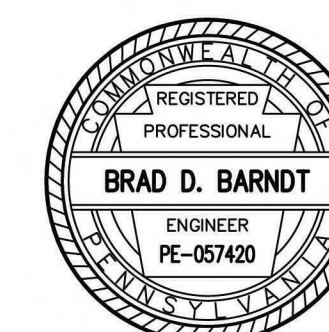
1. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 16 THRU 19, 21, & 22.
2. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 2 SECTIONS



RECOMMENDED 10 / 27 / 2022

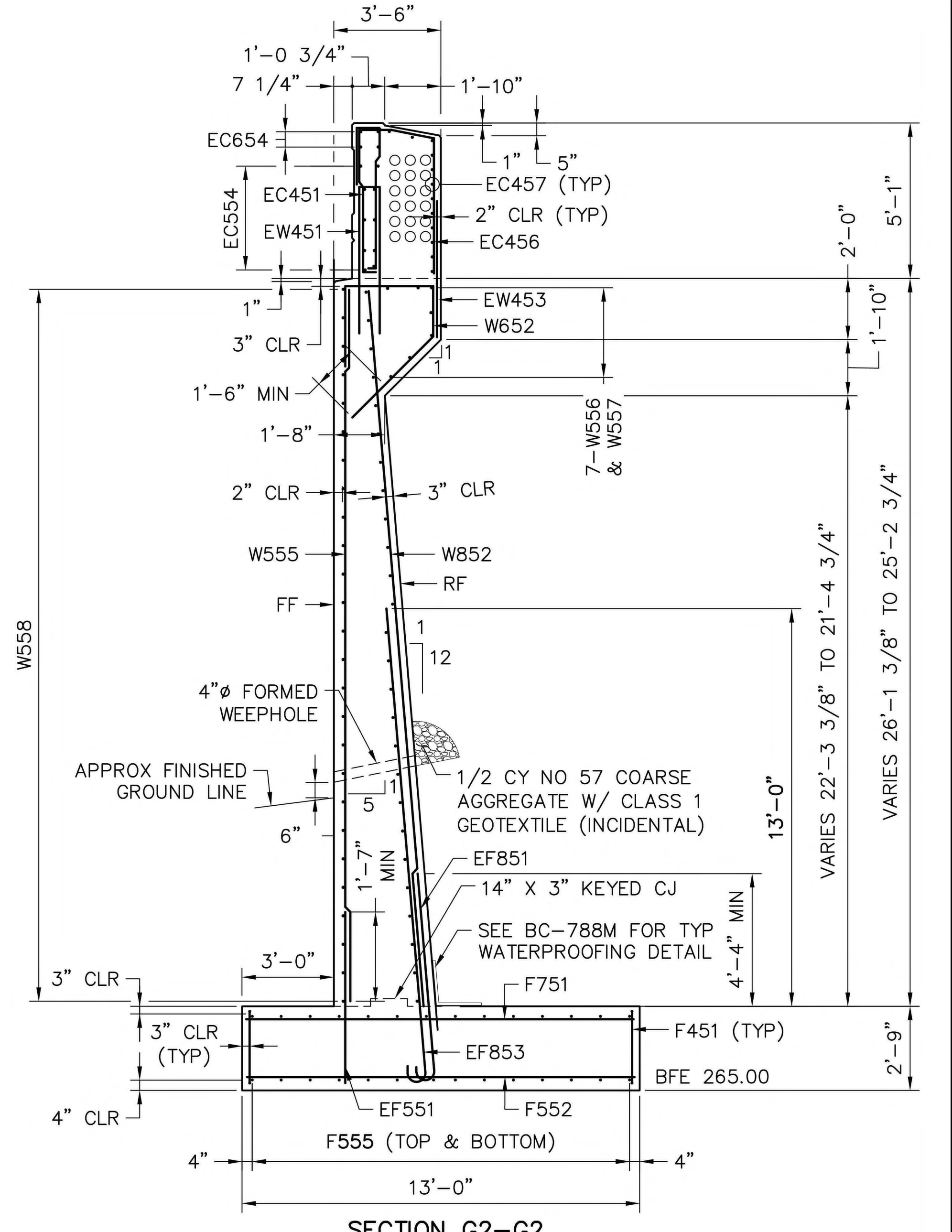
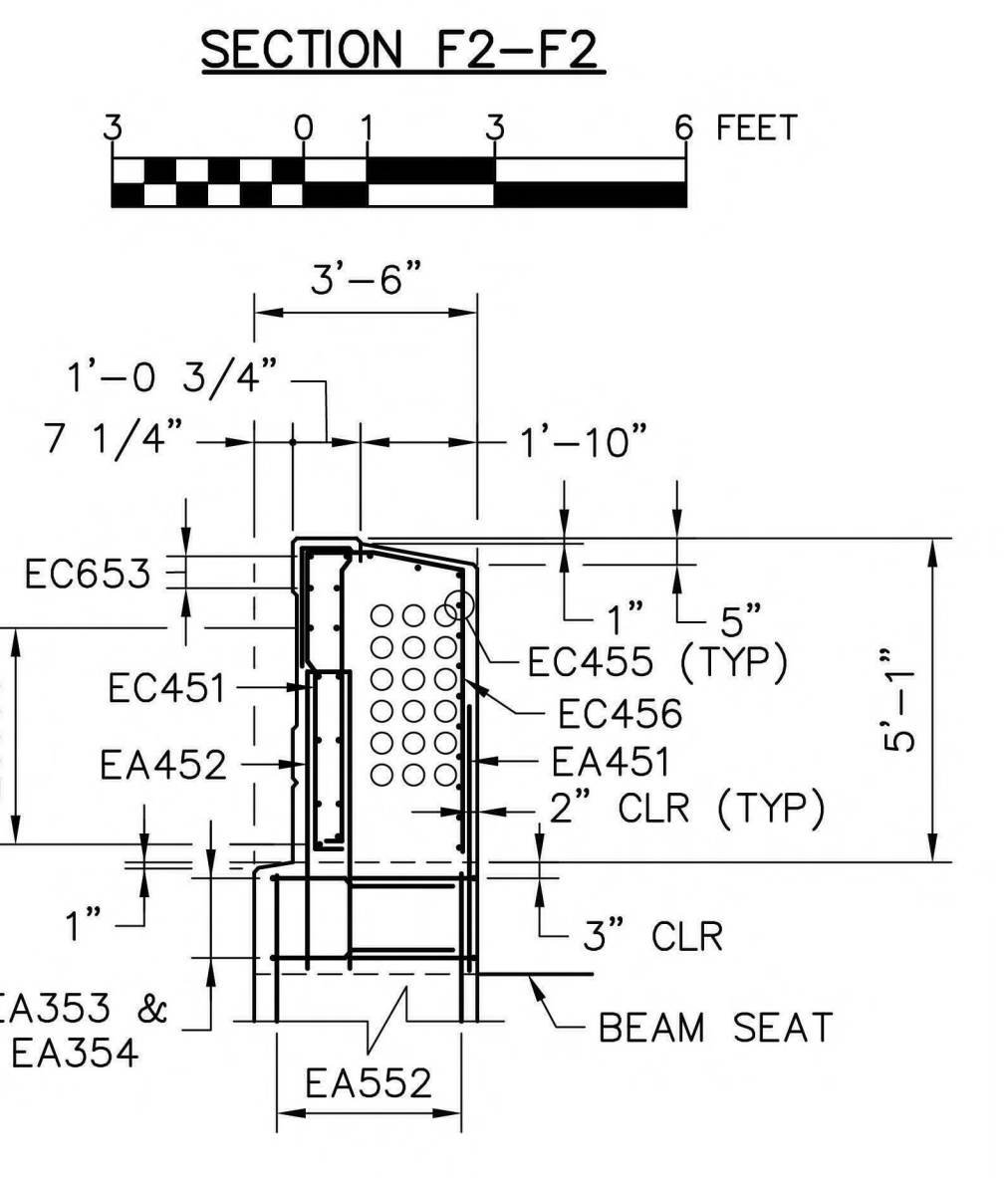
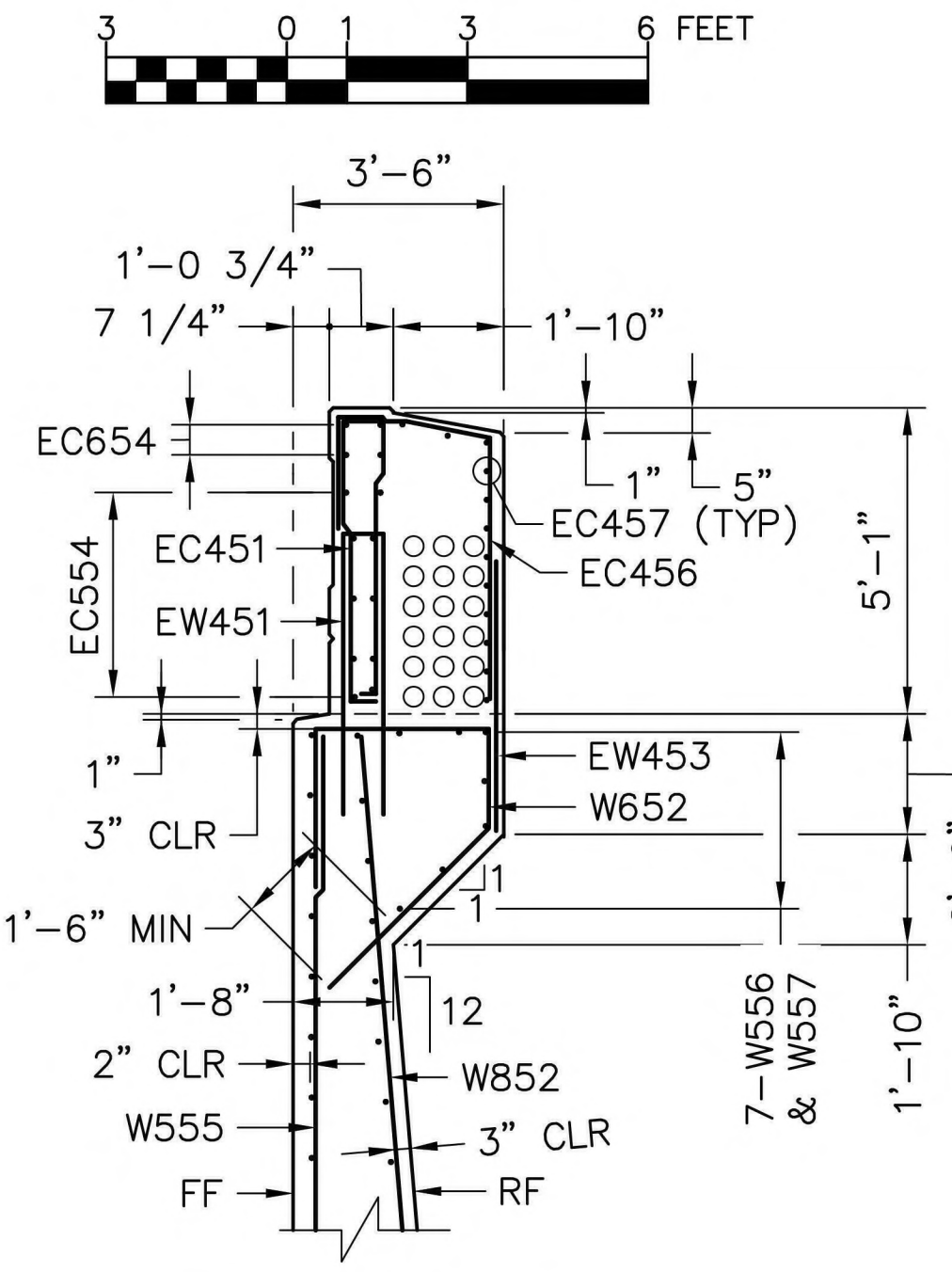
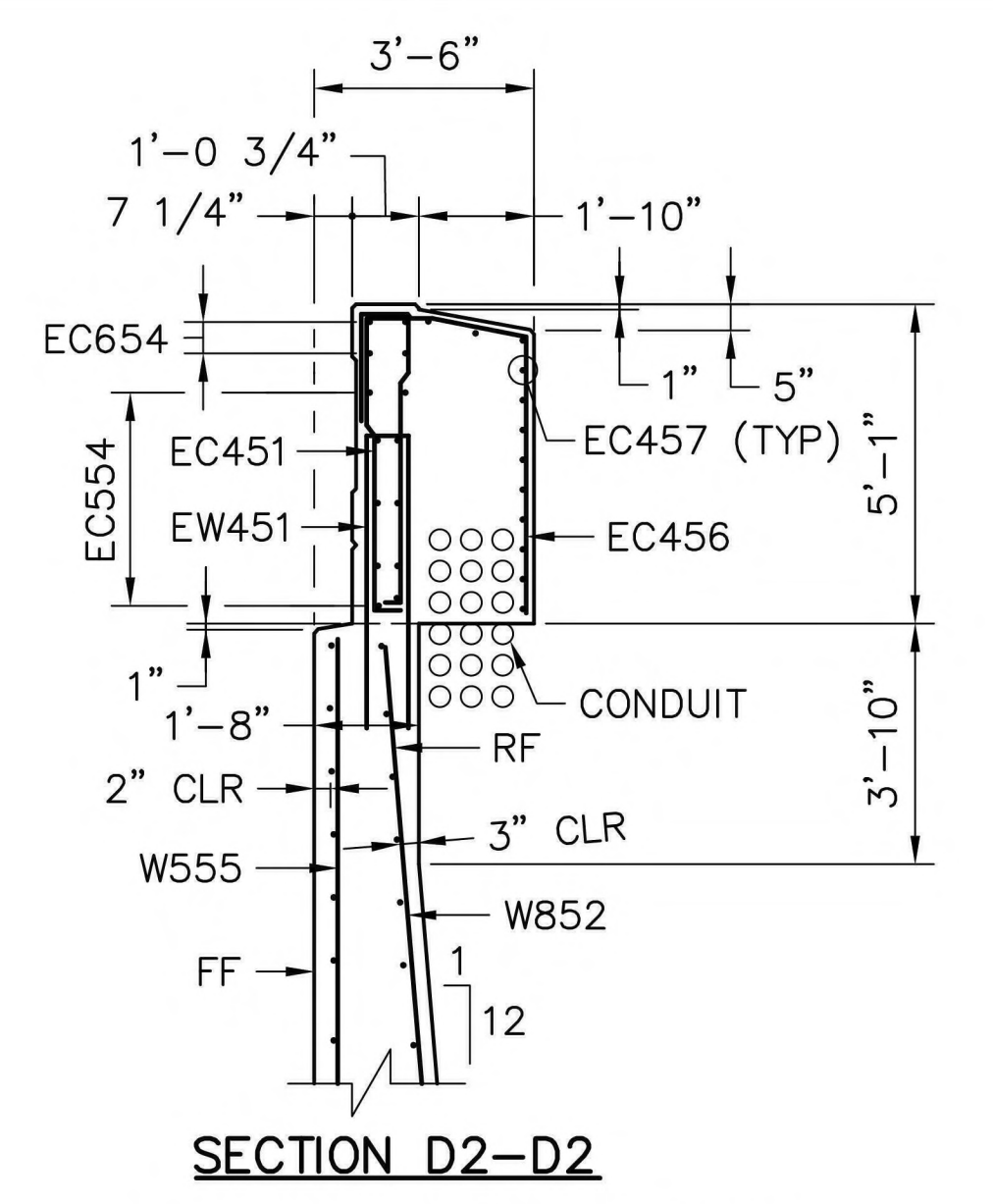
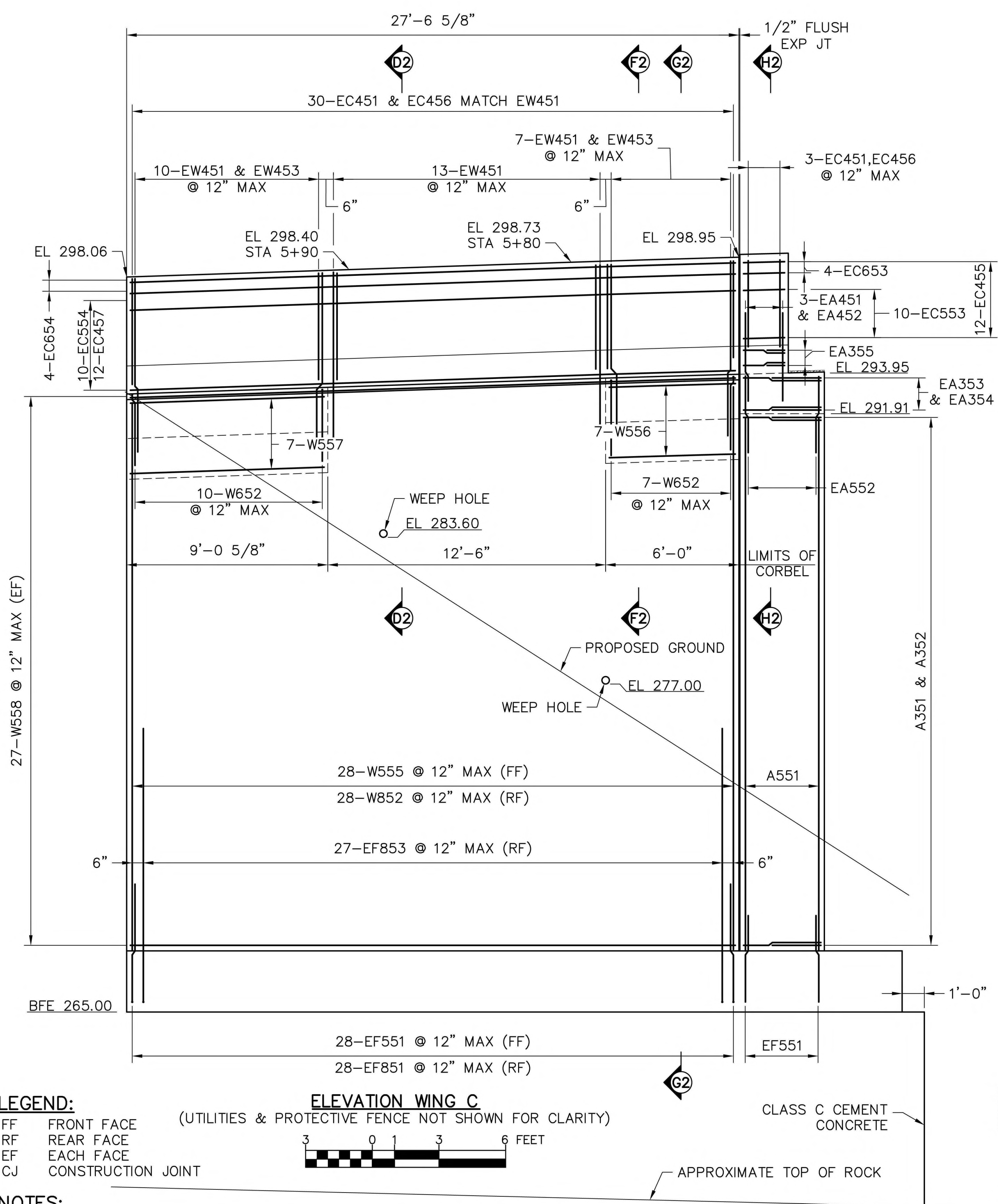
SHEET 20 OF 54

S-36195

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

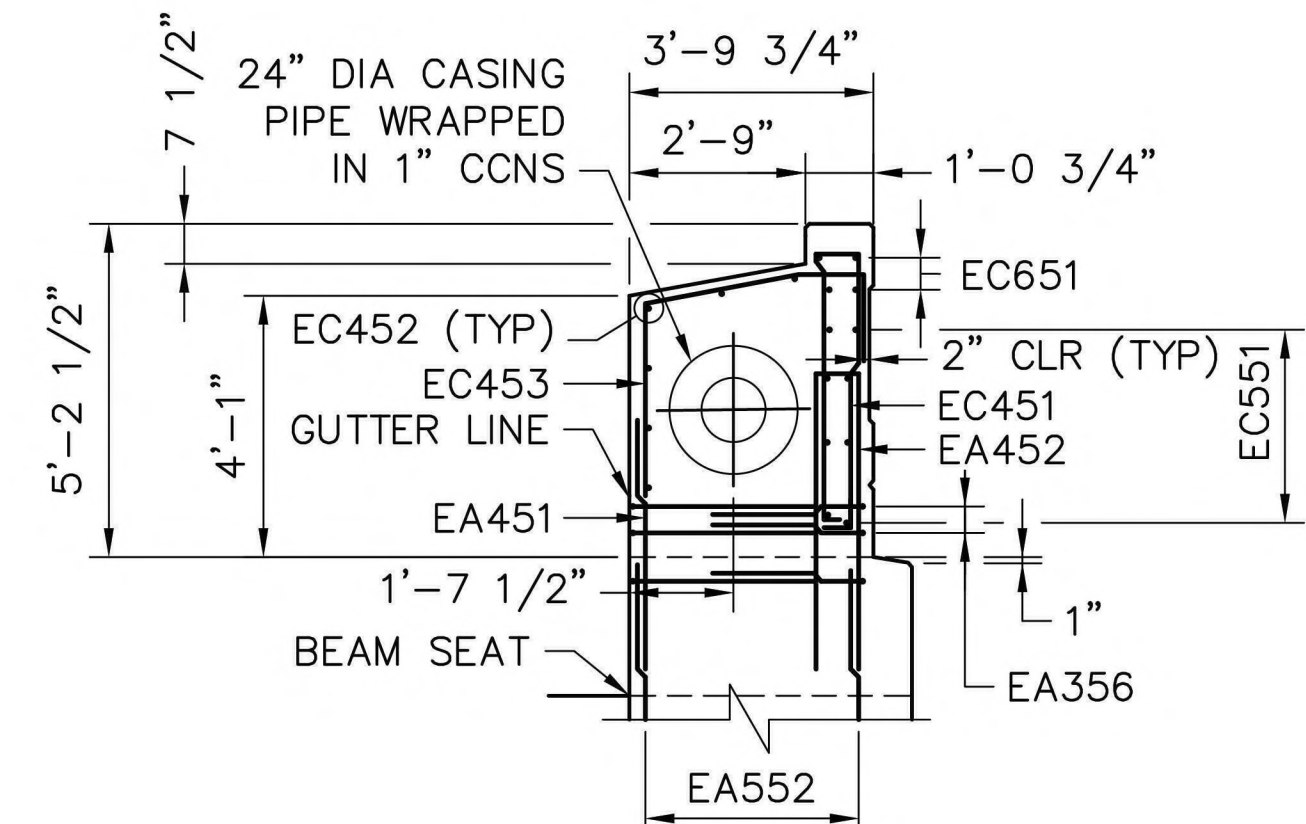
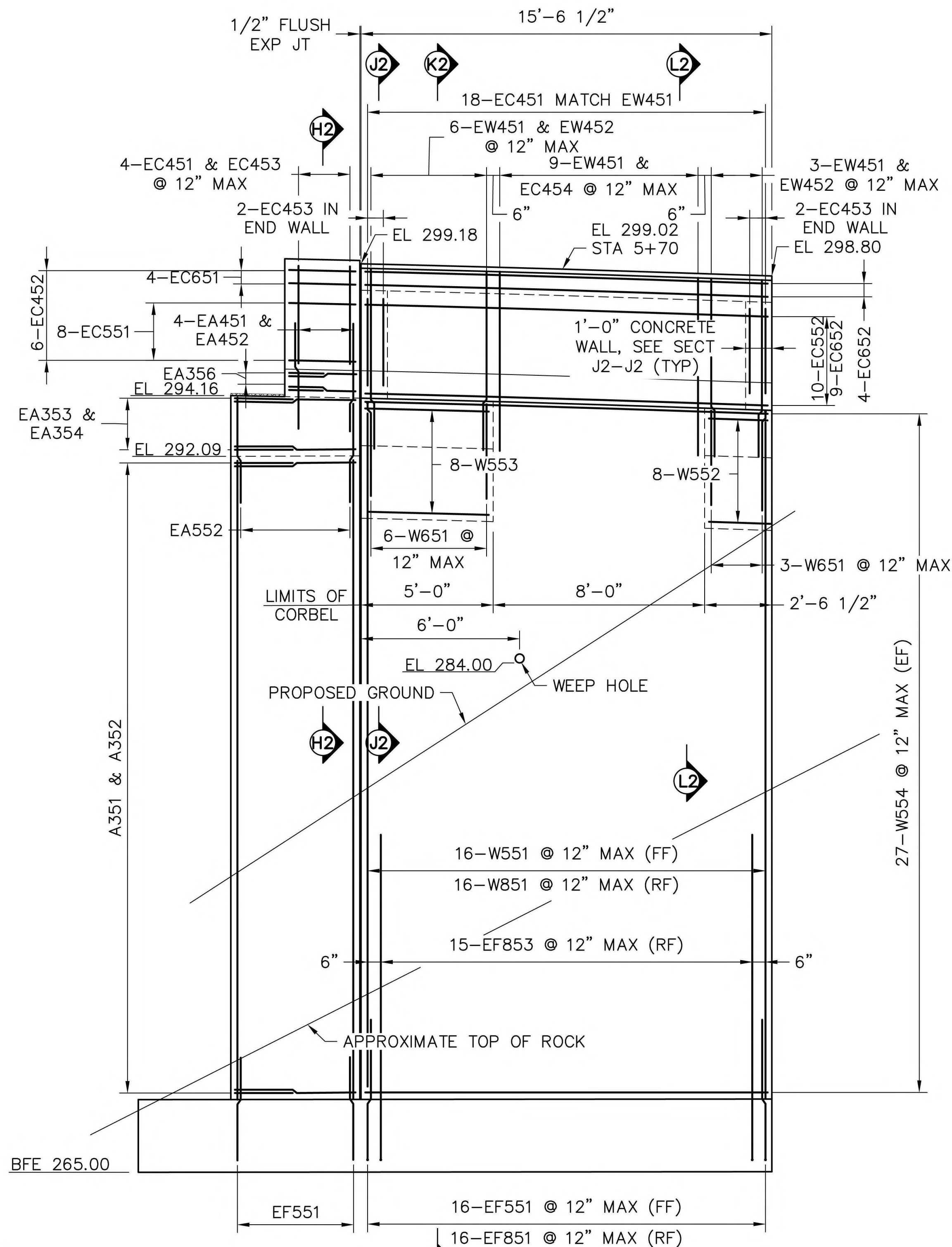
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
WING C ELEVATION & SECTIONS



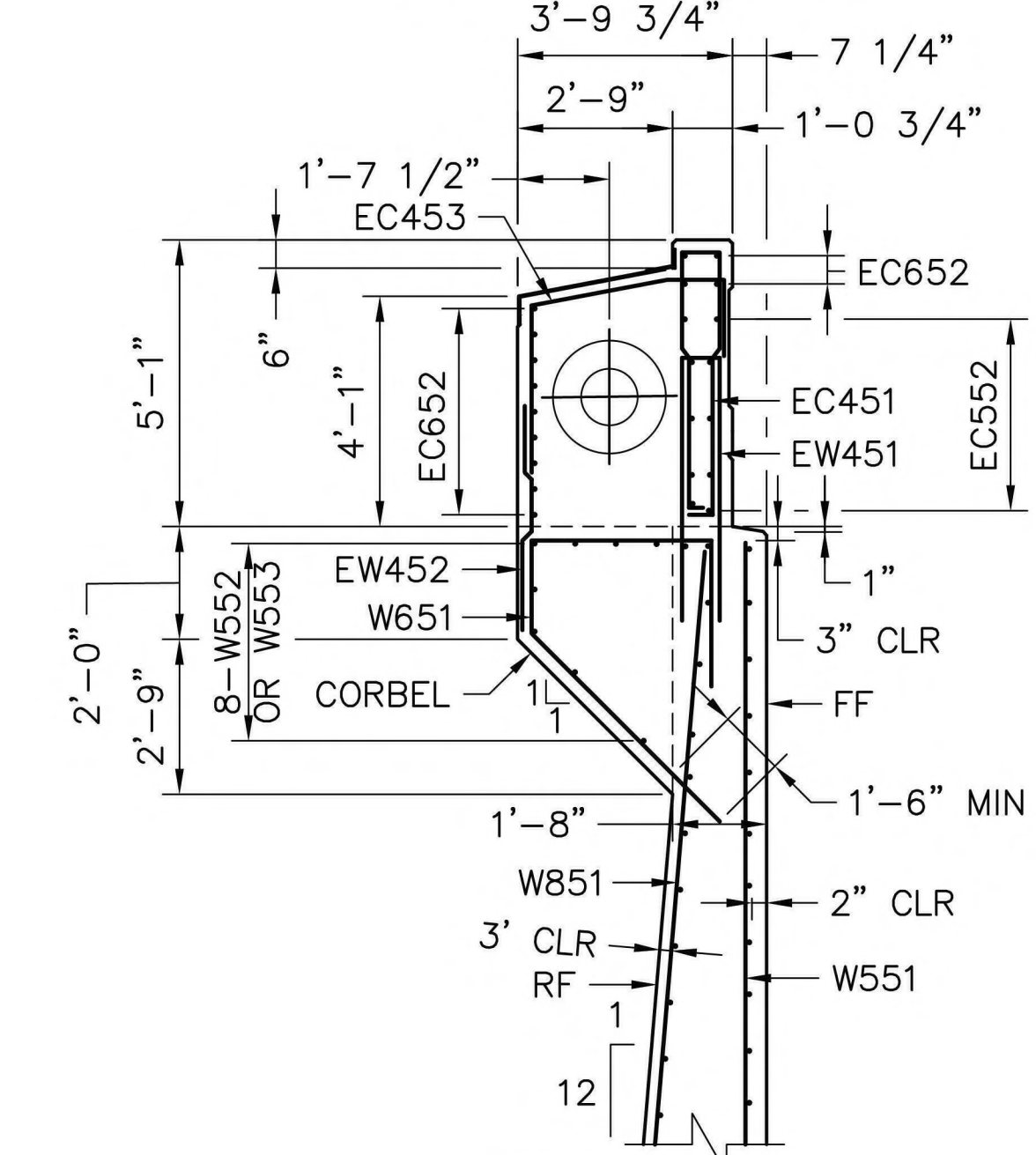
RECOMMENDED 10/27/2022 SHEET 21 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

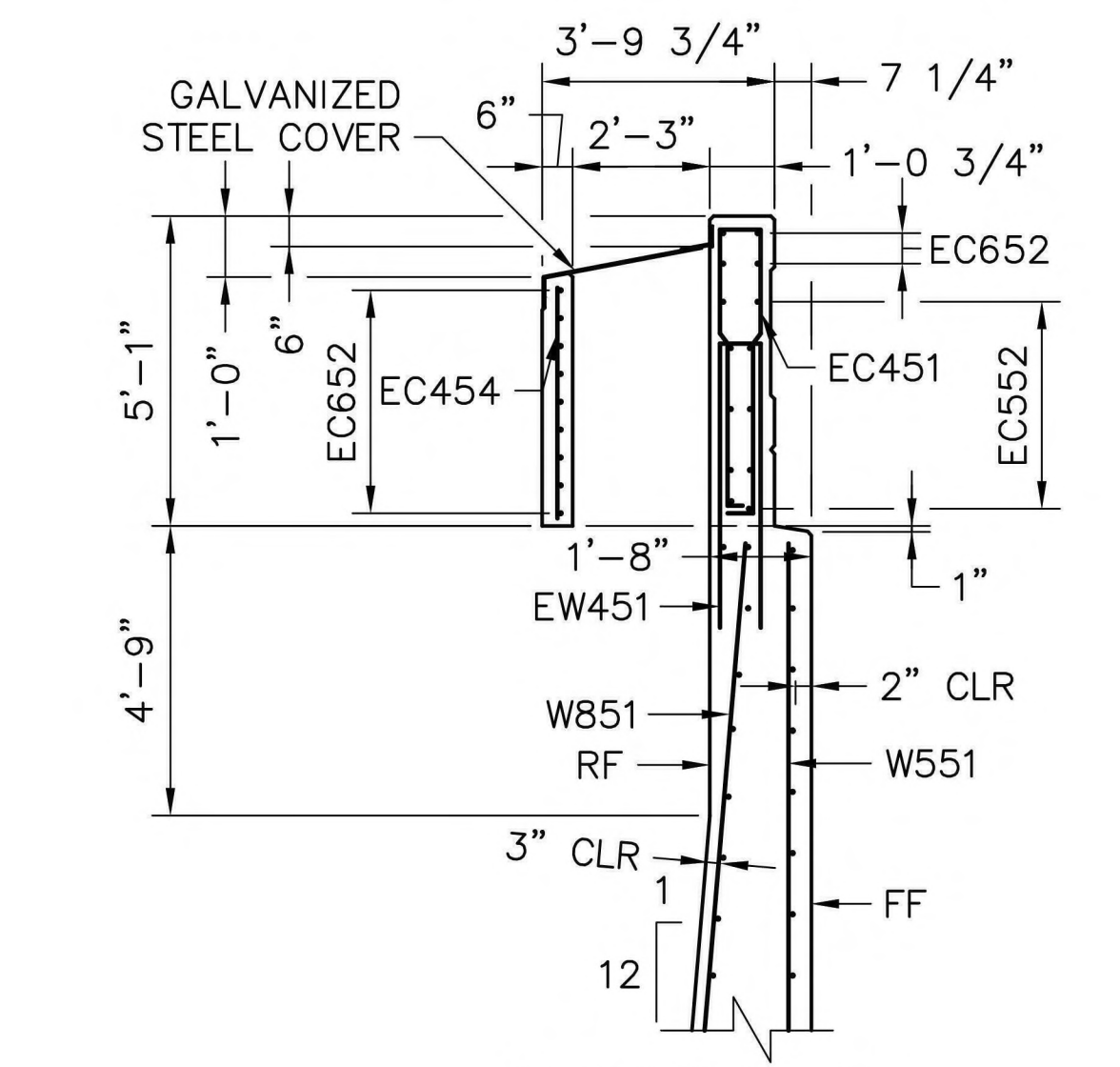
S-36195



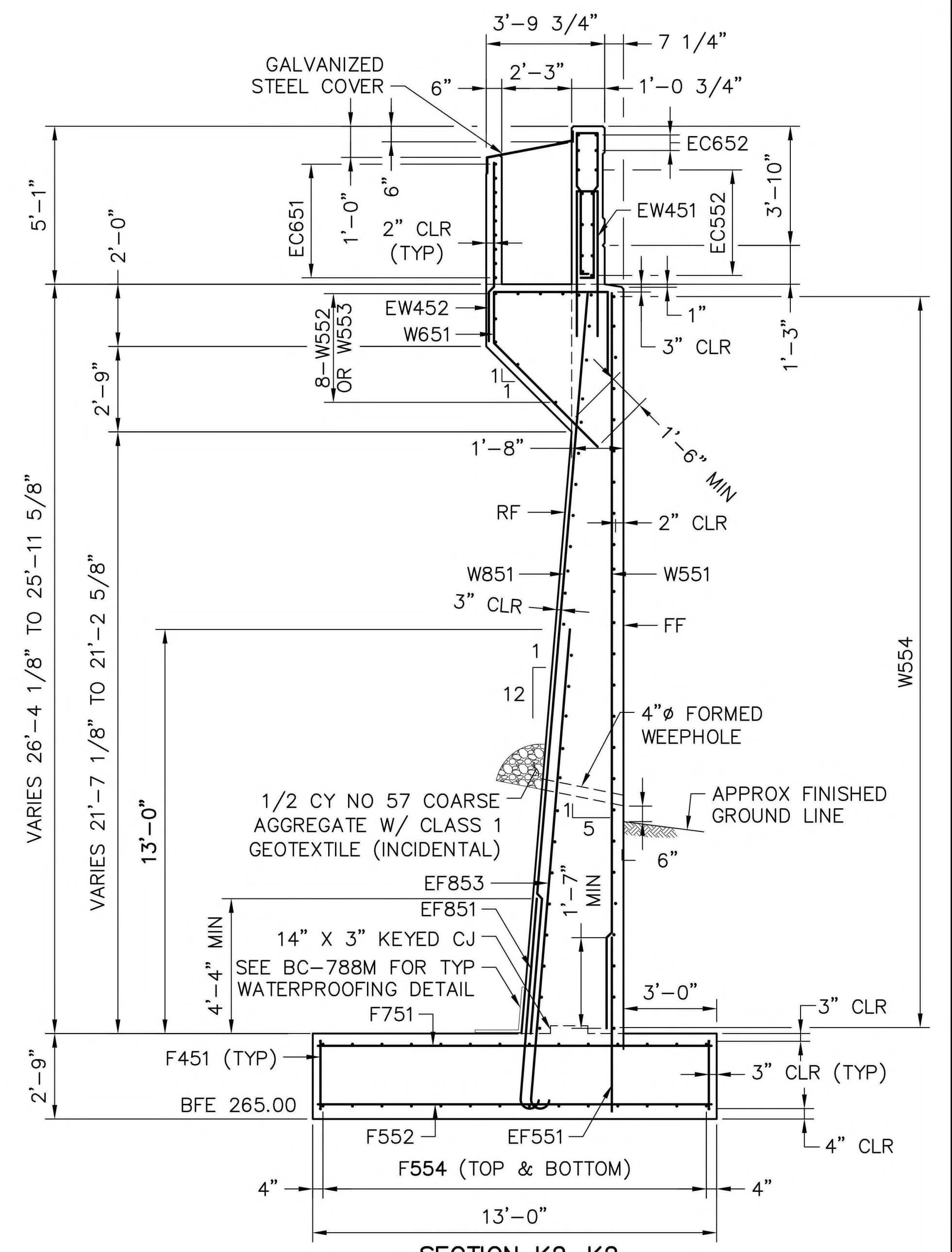
SECTION H2-H2
3 0 1 3 6 FEET



SECTION J2-J2
3 0 1 3 6 FEET



SECTION L2-L2
3 0 1 3 6 FEET



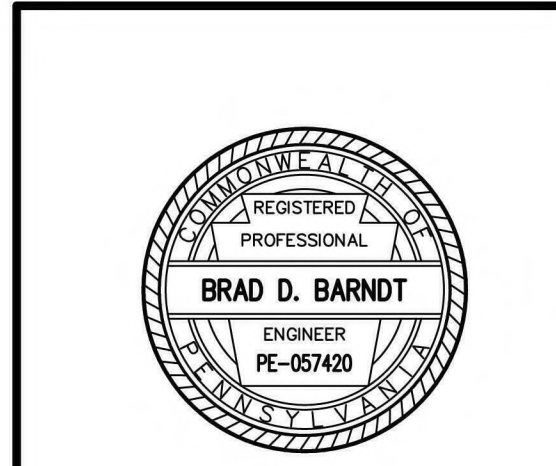
SECTION K2-K2
3 0 1 3 6 FEET

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
WING D ELEVATION & SECTIONS

RECOMMENDED 10/27/2022 SHEET 22 OF 54



LEGEND:
FF FRONT FACE
RF REAR FACE
EF EACH FACE
CJ CONSTRUCTION JOINT

NOTES:
1. FOR GENERAL NOTES, SEE SHEET 2.
2. FOR ADDITIONAL ABUT 2 DETAILS, SEE SHEETS 16 THRU 21.
3. FOR ABUTMENT 2 REINFORCEMENT SCHEDULE, SEE SHEETS 23 & 24.
4. FOR UTILITIES DETAILS, SEE SHEETS 47 & 48.
5. FOR PROTECTIVE FENCE POST SPACING, SEE SHEET 33.

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

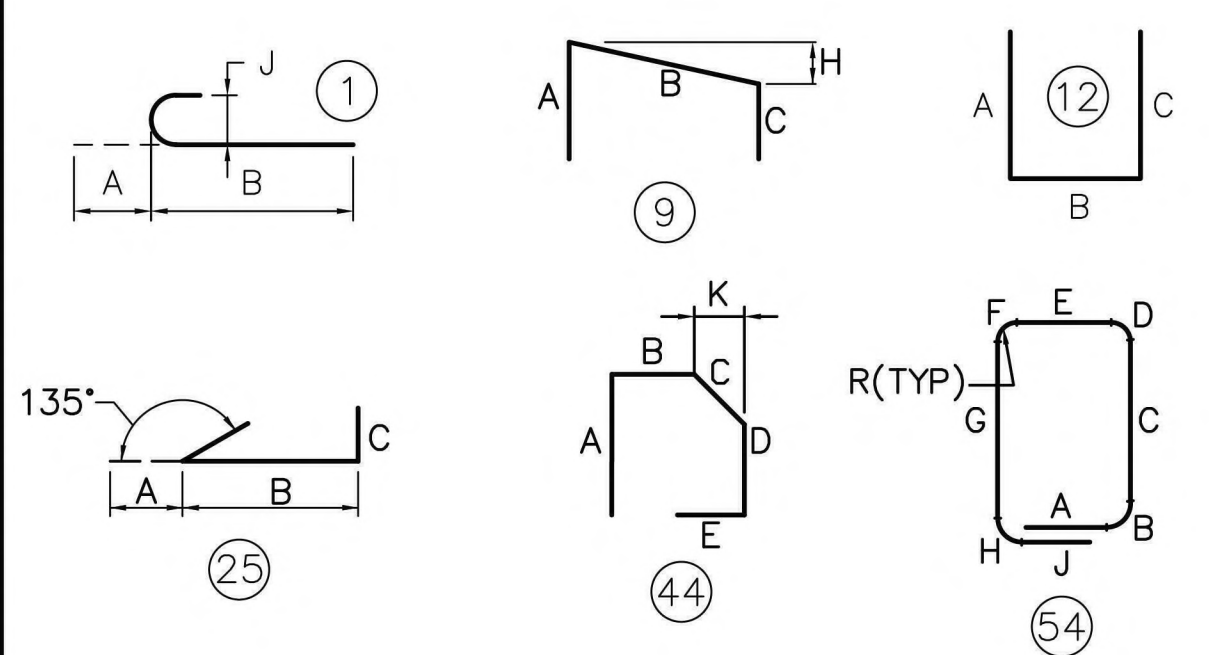
W:\01\19A\0119A-04-SR-0183\DWG\CD\2022\19A-04-SR-0183-05B-FR-FINAL.dwg - WING D - 8/29/2022 3:01 PM

REINFORCEMENT BAR SCHEDULE

MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS	
A351	3	10'-7"	68	12	3'-1"	4'-1 1/4"	3'-4 3/4"										
A352	3	5'-4"	68	9	1'-8"	3'-8"	0"					10 3/4"					
EA353	3	9'-9 1/2"	8	STR													BEND IN FIELD
EA354	3	10'-0"	8	STR													BEND IN FIELD
EA355	3	6'-9"	4	STR													BEND IN FIELD
EA356	3	8'-4"	4	STR													BEND IN FIELD
EA451	4	5'-2"	7	STR													
EA452	4	11'-0"	7	12	5'-2"	8"	5'-2"										
A453	4	4'-0"	64	STR													
A551	5	23'-7 1/2"	81	STR													
EA552	5	4'-0"	48	STR													
A554	5	6'-0"	54	12	2'-4"	1'-4"	2'-4"										
A555	5	35'-0"	50	STR													
A556	5	20'-5 1/2"	50	STR													
A851	8	23'-10 1/2"	45	STR													
EC451	4	11'-9 1/2"	55	54	3"	4"	4'-9"	4"	3"	4"	4'-9"	4"	5 1/2"				
EC452	4	2'-6"	6	STR													
EC453	4	8'-2 3/4"	8	9	2'-8"	3'-5 3/4"	2'-1"					8 1/2"					
EC454	4	3'-9"	9	STR													
EC455	4	1'-10"	12	STR													
EC456	4	9'-0 1/2"	33	44	2'-2"	8"	1'-10 1/2"	4'-4"	0"								1'-10"
EC457	4	27'-2 1/2"	12	STR													
EC551	5	2'-6"	8	STR													
EC552	5	15'-2 1/2"	10	STR													
EC553	5	1'-10"	10	STR													
EC554	5	27'-2 1/2"	10	STR													
EC651	6	2'-6"	4	STR													
EC652	6	15'-2 1/2"	13	STR													
EC653	6	1'-10"	4	STR													
EC654	6	27'-2 1/2"	4	STR													
F451	4	3'-0"	94	25	4 1/2"	2'-3"	4 1/2"										
EF551	5	4'-8"	125	STR													
F552	5	12'-6"	72	STR													
F553	5	57'-10 1/2"	28	STR													
F554	5	15'-2 1/2"	28	STR													
F555	5	27'-2 1/2"	28	STR													
F751	7	12'-6"	318	STR													
EF851	8	8'-2"	89	1	11"	7'-3"							8"			3"	
EF852	8	14'-5"	43	1	11"	13'-6"							8"			3"	
EF853	8	16'-5"	42	1	11"	15'-6"							8"			3"	

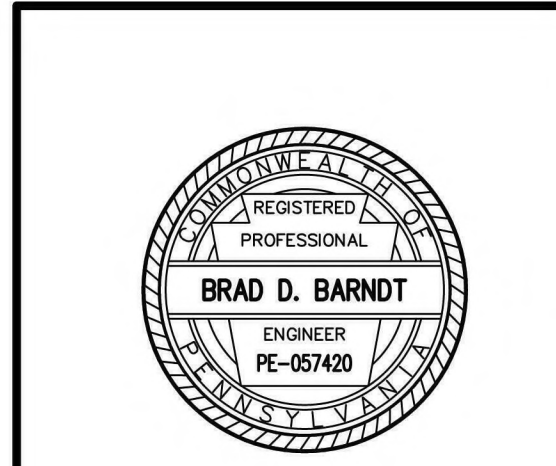
W:\01\19A\0119A-04-SR-0183\DWG\CD2022\19A\0119A-04-SR-0183-05B-FINAL.dwg - ABUT 2 BAR SCHEDULE - 8/29/2022 3:01 PM

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 2 BAR SCHEDULE - 1

DES: TML CHK'D: BDB
DWG: JTP CHK'D: BDB

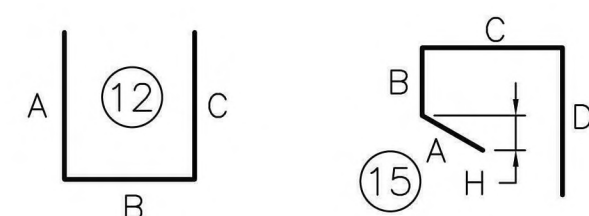
RECOMMENDED 10/27/2022 SHEET **23** OF **54**
S-36195

REINFORCEMENT BAR SCHEDULE

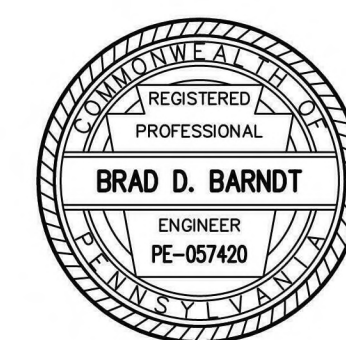
MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
EW451	4	8'-8"	48	12	4'-0"	8"	4'-0"									
EW452	4	5'-8"	9	STR												
EW453	4	4'-0"	17	STR												
W551	5	25'-6 1/2"	16	STR												
W552	5	2'-2 1/2"	8	STR												
W553	5	4'-8"	8	STR												
W554	5	15'-2 1/2"	54	STR												
W555	5	VARIES 24'-9" TO 25'-10"	28	STR												14 SETS OF 2, STEP EA SET BY 1"
W556	5	5'-8"	7	STR												
W557	5	8'-8 1/2"	7	STR												
W558	5	27'-2 1/2"	54	STR												
W651	6	12'-10 1/2"	9	15	5'-0 1/2"	1'-6"	4'-0"	2'-4"						3'-6 3/4"		
W652	6	10'-8"	17	15	3'-9"	1'-6"	3'-1"	2'-4"						2'-7 3/4"		
W851	8	25'-9 1/2"	16	STR												
W852	8	VARIES 24'-9" TO 25'-10"	28	STR												14 SETS OF 2, STEP EA SET BY 1"

W:\01\19A\0119A-04-SR-0183\DWG\CD2022\bridge\DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - ABUT 2 BAR SCHEDULE (2) - 8/22/2022 3:01 PM

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

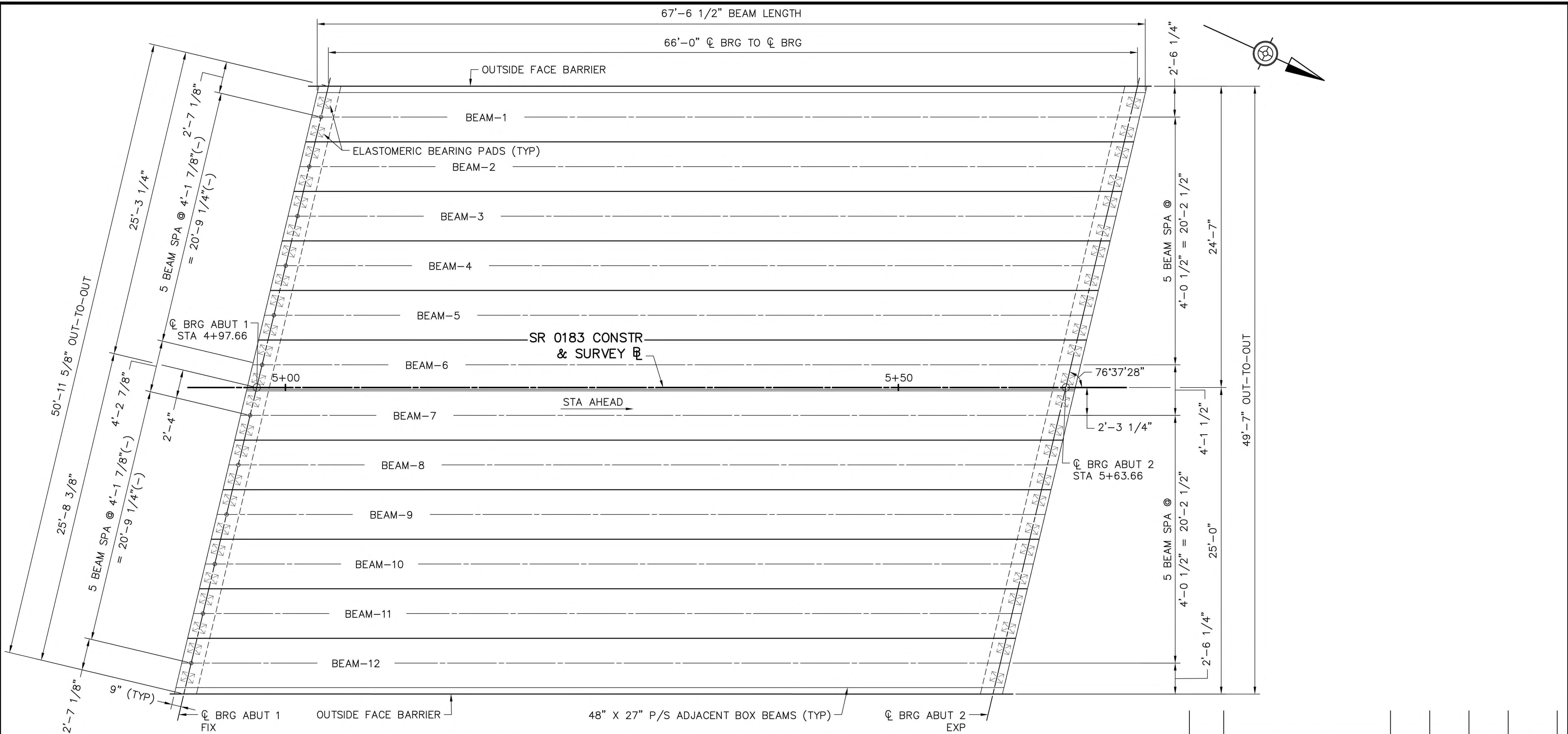
BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ABUTMENT 2 BAR SCHEDULE - 2

RECOMMENDED 10/27/2022 SHEET **24** OF **54**

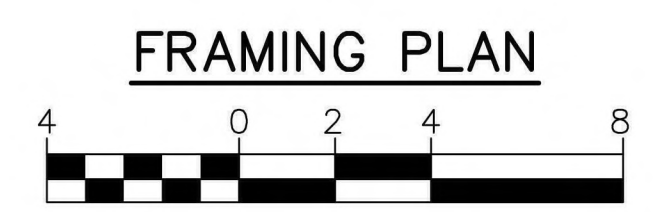
DES: TML CHK'D: BDB
DWG: JTP CHK'D: BDB

S-36195

W:\01\194\01194-04-SR_0183\DWG\CAD\2012\Bridg DWG\01194-04-SR0183-05B-FR-FINAL.dwg - FRAMING PLAN - 8/29/2022 3:01 PM

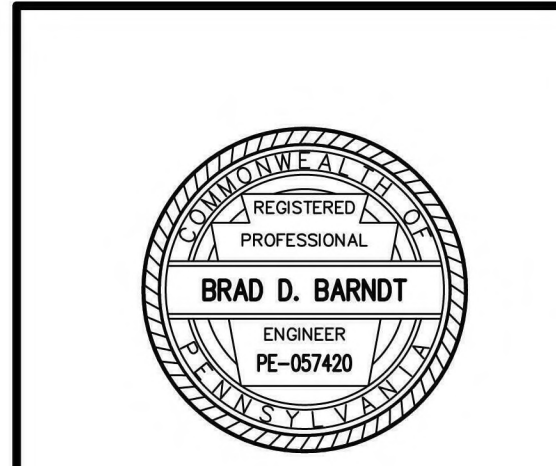


NOTE:
ALL BEAM SPACING IS GIVEN AT TOP OF BEAMS.



DES:	TML	CHK'D:	BDB
DWG:	JTP	CHK'D:	BDB

- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 3.
 - FOR TYPICAL SECTION, SEE SHEET 2.
 - FOR BEAM DETAILS, SEE SHEETS 26 THRU 29.
 - FOR SLAB PLAN, SEE SHEET 30.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

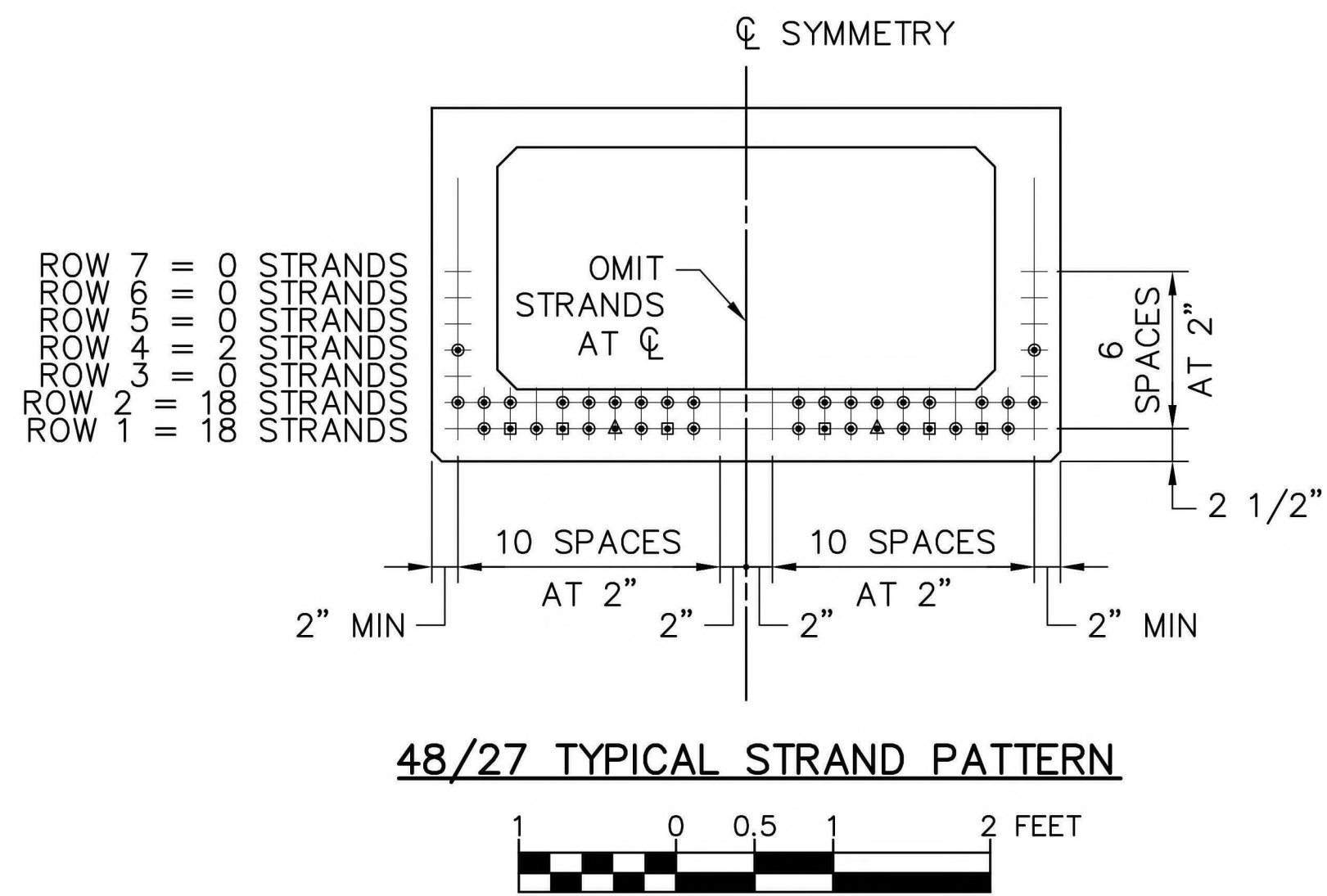
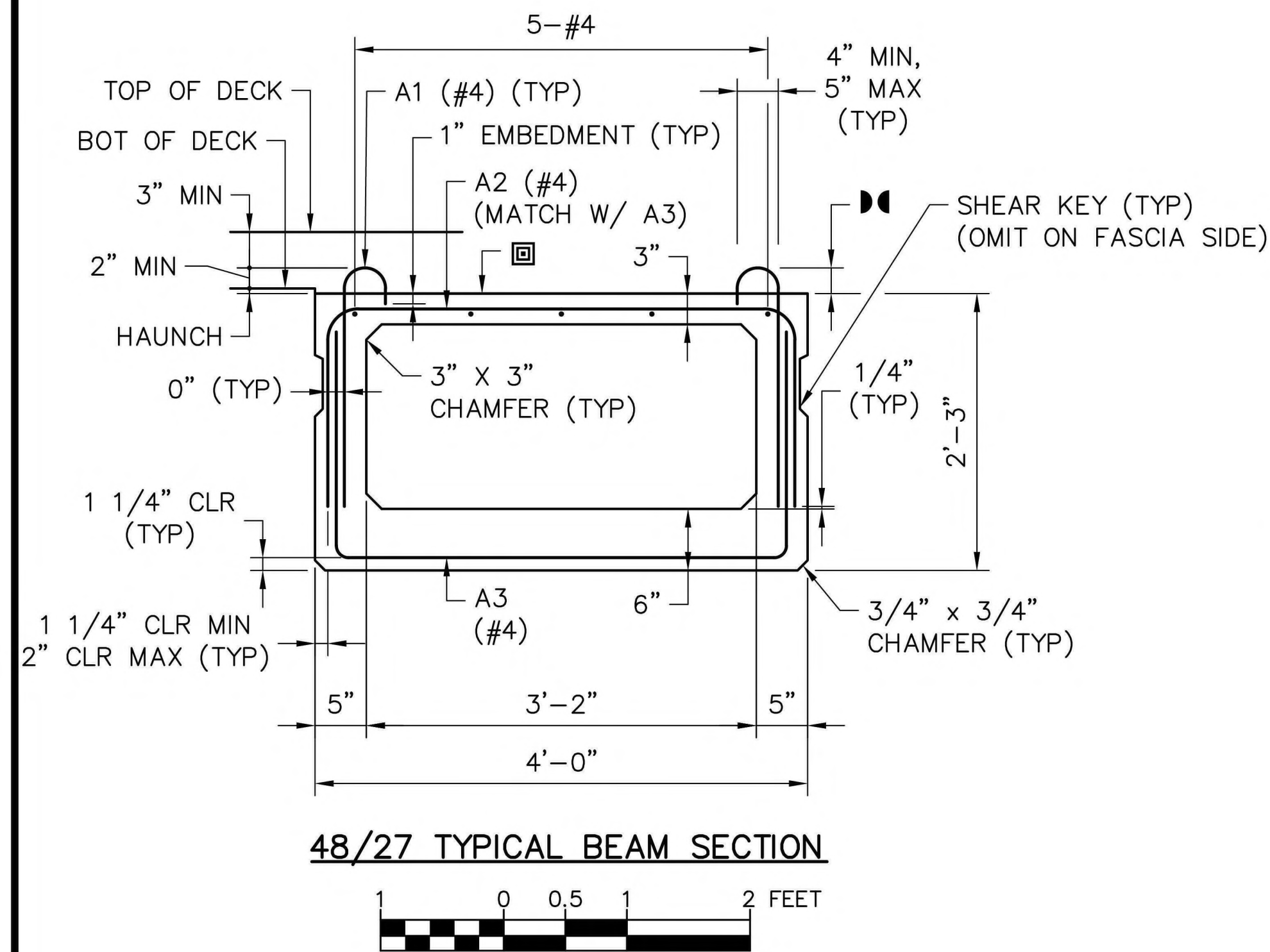
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
FRAMING PLAN

RECOMMENDED 10/27/2022 SHEET 25 OF 54

S-36195

BEAM DATA	
CENTER OF GRAVITY OF STRANDS	3.76" MIDSPAN 4.10" ϕ BEARING
f'_{ci}	6.8 KSI
f'_c	8.0 KSI
JACKING FORCE	1285.1 KIP



GENERAL PRESTRESSING NOTES:

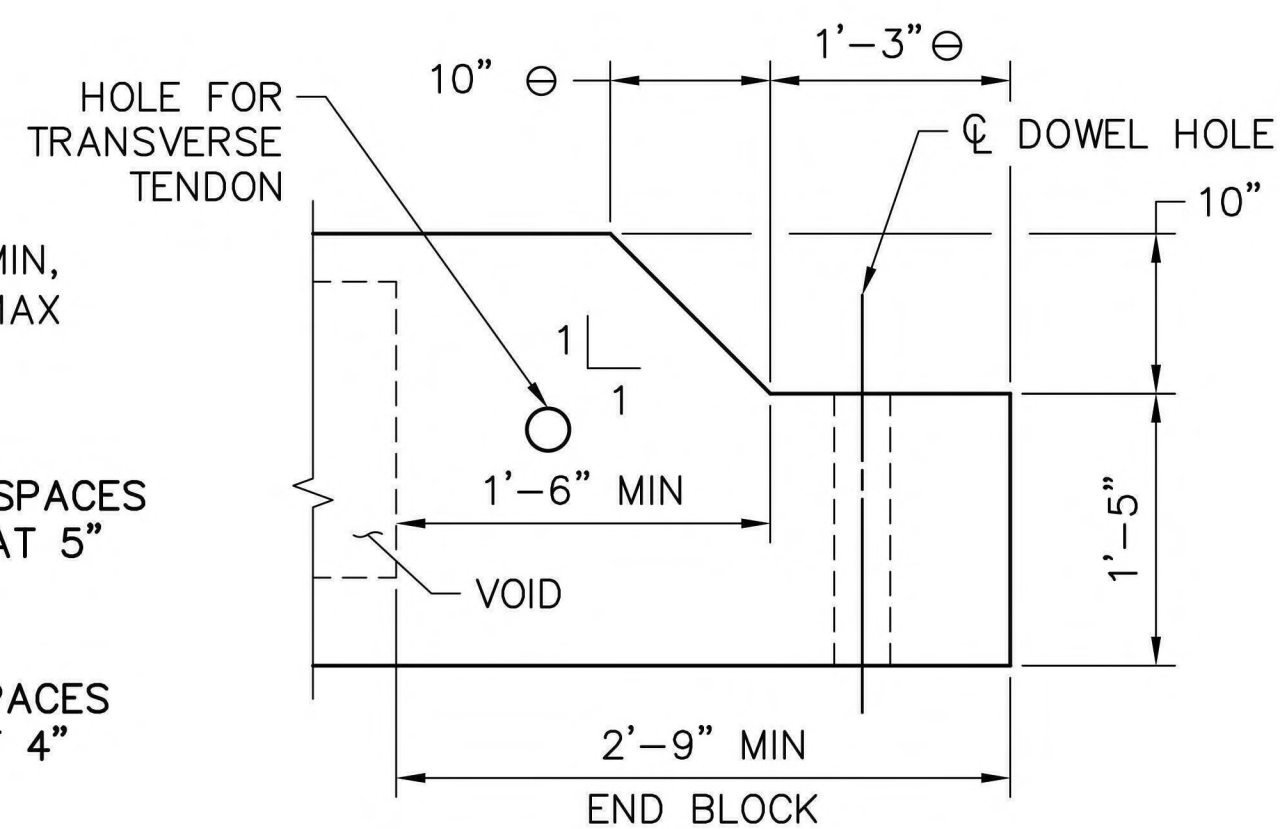
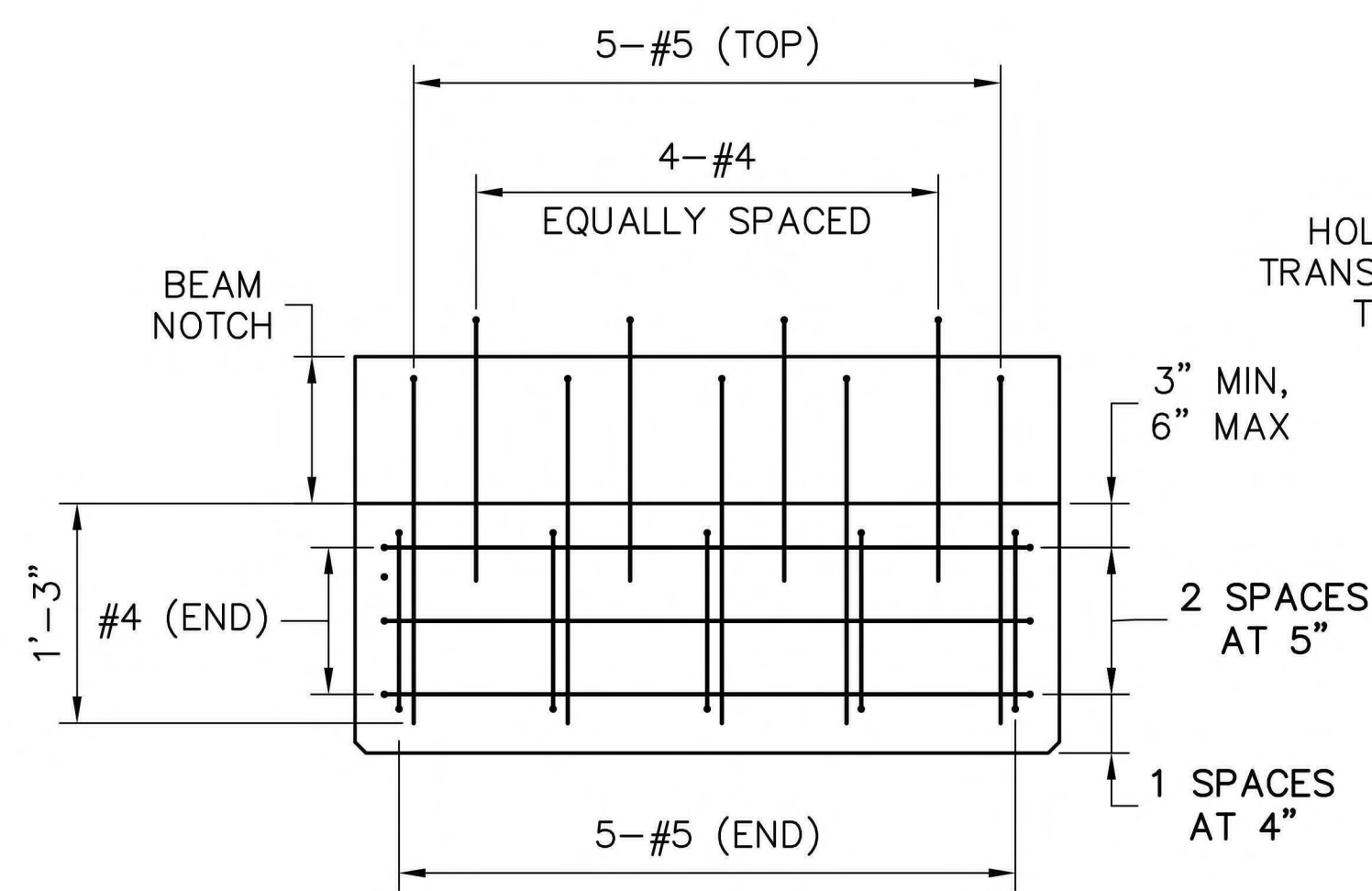
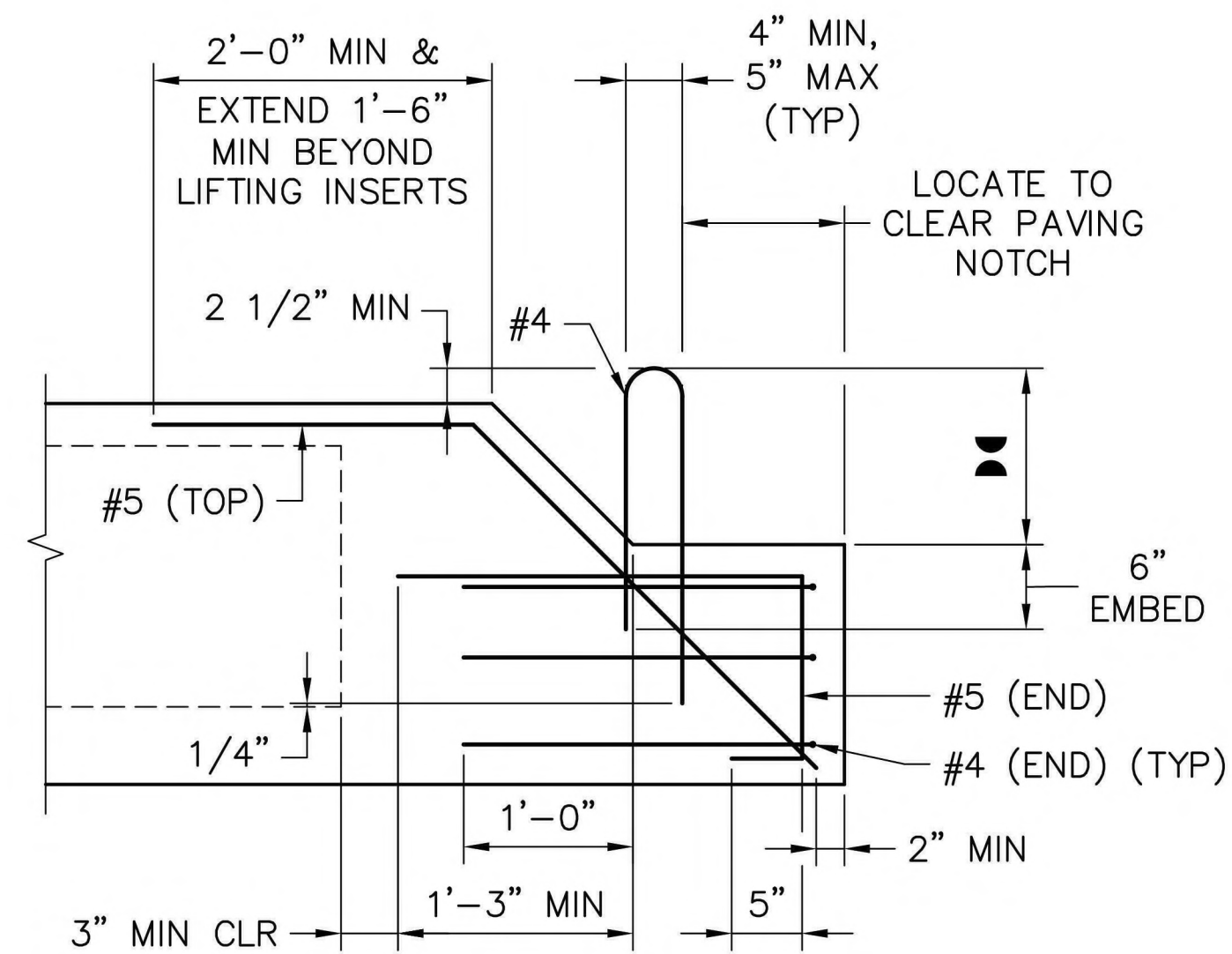
- PRESTRESSING STRANDS SHALL BE SPECIAL LOW-RELAXATION OF 270 KSI ULTIMATE STRENGTH 0.520" DIAMETER, 0.167 in² AREA.
- EPOXY COAT ALL REINFORCEMENT FOR A DISTANCE OF 9 FEET FROM BEAM ENDS AND EPOXY COAT ALL REINFORCEMENT WHICH PROTRUDES INTO BRIDGE DECK FROM TOP OF BEAMS.
- END ZONE REINFORCEMENT MAY BE INCREASED BY FABRICATOR TO REFLECT FABRICATOR'S EXPERIENCE AND/OR TO CONTROL CRACKING. WIRE MESH OF EQUIVALENT AREA IS PERMISSIBLE FOR CRACK CONTROL REINFORCEMENT. SHOW ANY ADDITIONAL REINFORCEMENT ON THE SHOP DRAWINGS.
- SHOW THE FOLLOWING DATA ON THE SHOP DRAWINGS:
 - DESIGN AND CASTING LENGTHS.
 - PLAN, ELEVATIONS, SECTIONS AND ALL REINFORCEMENT DETAILS.
 - ANY MODIFICATIONS TO REINFORCEMENT SPLICE AND BENDING DETAILS.
 - SIZE AND LOCATION OF TEMPORARY STORAGE SUPPORTS.
 - TYPE AND LOCATION OF BRACING AND TEMPORARY SUPPORTS USED FOR TRANSPORTATION AND THE ERECTION OF BEAMS.
- END REINFORCEMENT SPACING MAY BE REDUCED AS REQUIRED TO SATISFY SHEAR REINFORCEMENT REQUIREMENTS, BUT DO NOT REDUCE THE MINIMUM AREA TO BE REINFORCED.
- FABRICATOR TO CHECK STABILITY FOR HANDLING AND TRANSPORTATION OF THE MEMBERS.
- MINIMUM COVER ON REINFORCEMENT AS FOLLOWS:
 TOP SLAB = 1" (COMPOSITE)
 INSIDE VOID = 1"
 ELSEWHERE = 2" UNLESS NOTED OTHERWISE
- ENDS OF BEAMS TO BE ERECTED POSITION.
- DEBONDING FOR CRACK CONTROL AS PER PUB 408/2020 HAS NOT BEEN CONSIDERED IN THE DESIGN. FABRICATOR TO INDICATE CRACK CONTROL DETAILS AT THE SHOP DRAWING STAGE.

LEGEND:

- = TO BE DETAILED ON SHOP DRAWINGS
- = TOP SURFACE OF ALL BEAMS SHALL HAVE A "STIFF BROOM" FINISH TRANSVERSELY.
- = MEASURED NORMAL TO ϕ BEARING.

STRAND PATTERN LEGEND:

- = FULLY BONDED
- = DEBOND 4'-9" FROM ϕ BEARING
- = DEBOND 5'-9" FROM ϕ BEARING



NOTES:

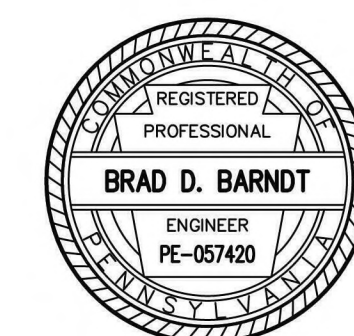
- FOR ADDITIONAL BEAM DETAILS, SEE SHEETS 27 THRU 29.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 BEAM DETAILS 1



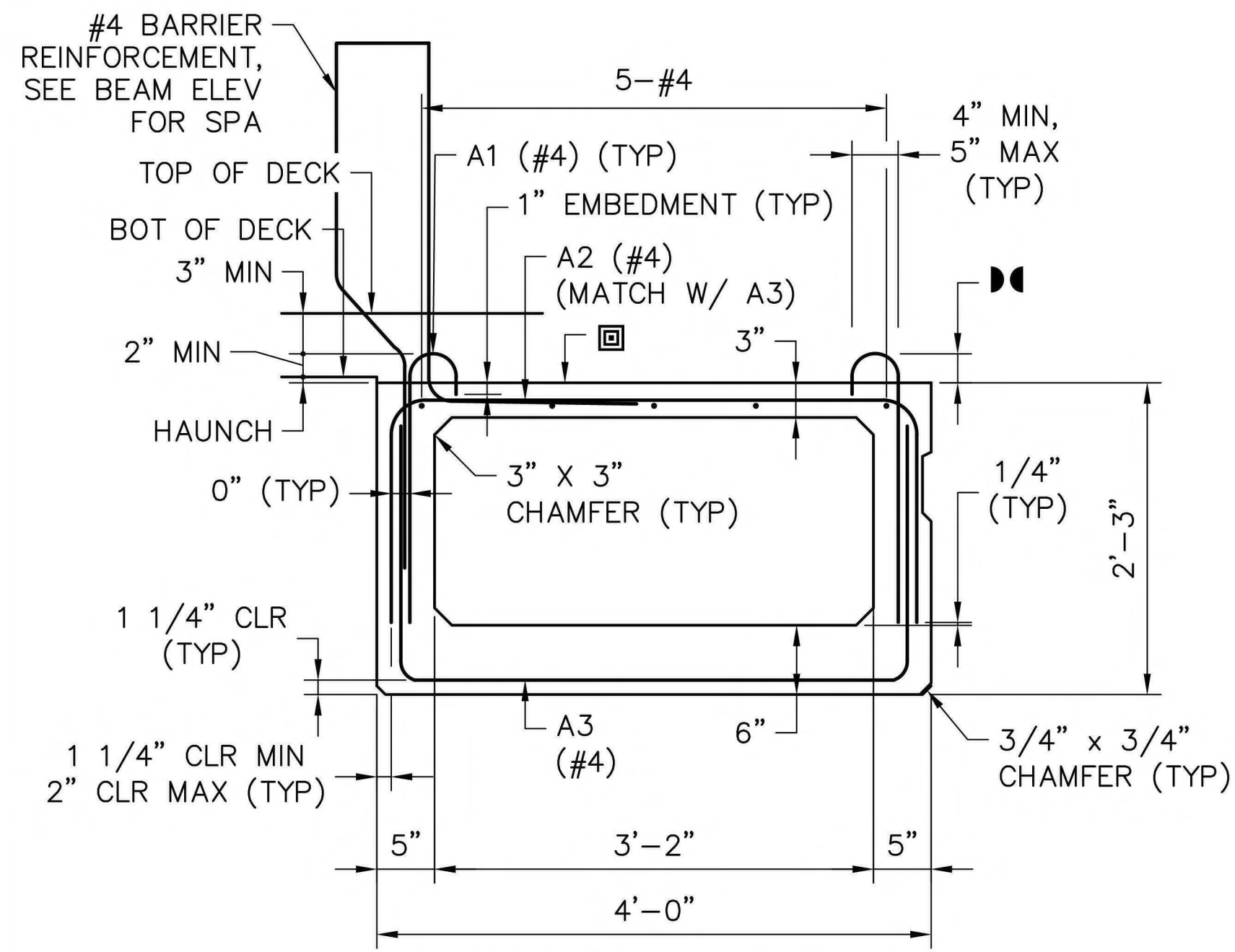
RECOMMENDED 10/27/2022

SHEET 26 OF 54

S-36195

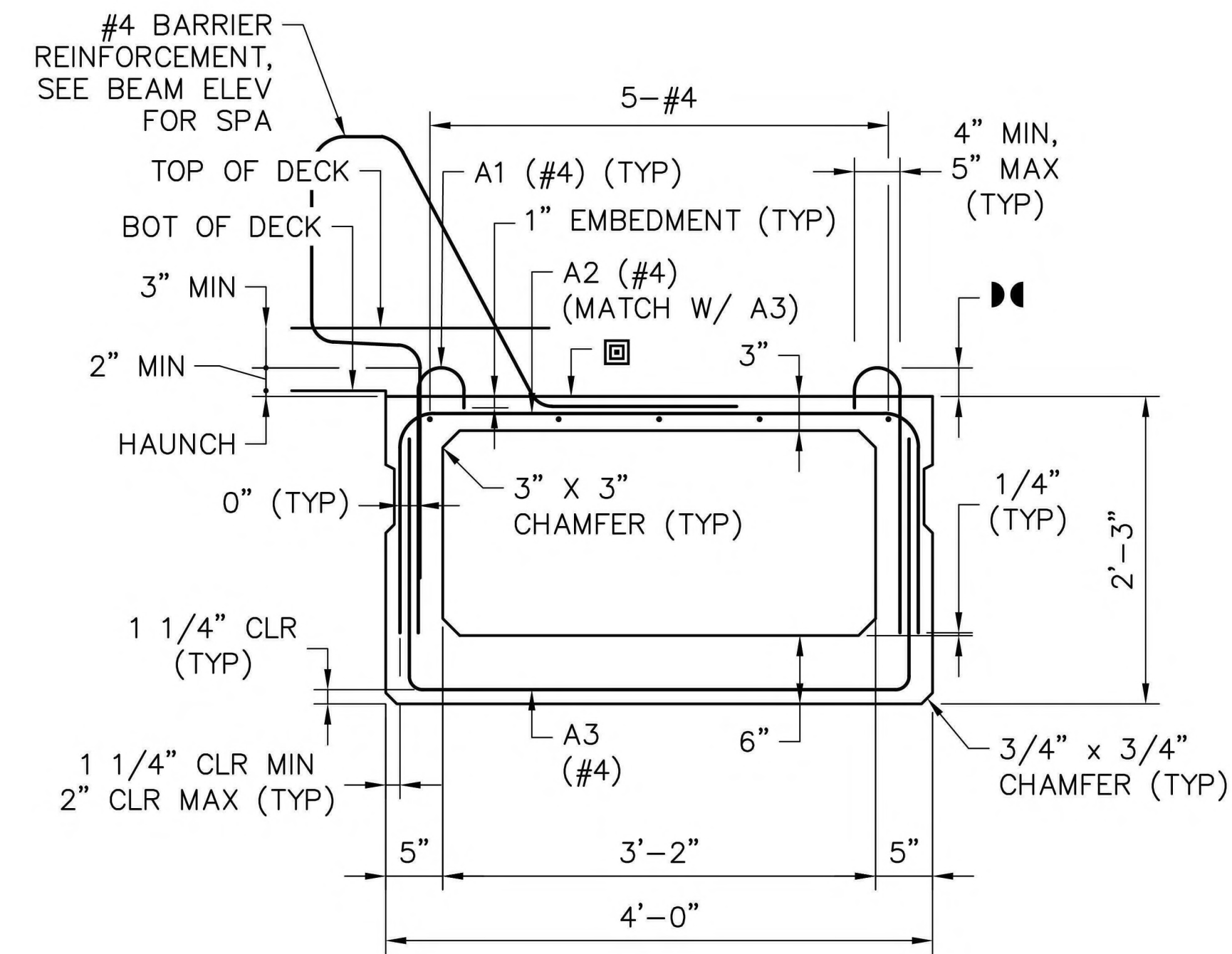
DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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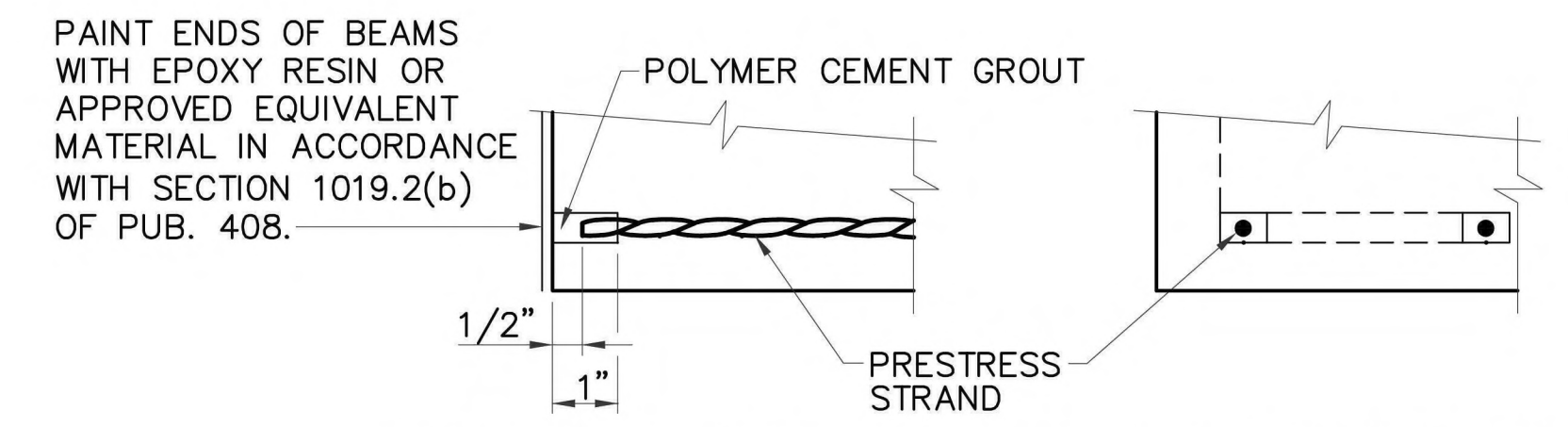
48/27 BEAM 1 SECTION

(BEAM 1 SHOWN; BEAM 12 SAME BUT OPPOSITE HAND)



48/27 BEAM 3

(BEAM 3 SHOWN; BEAM 10 SAME BUT OPPOSITE HAND)



GROUTED RECESS FOR STRANDS AT BEAM ENDS

SCALE: NONE

NOTES:

- RECESS CAN BE MADE FOR A SINGLE STRAND OR A GROUP OF STRANDS.
- PAINT BEAM ENDS WITH EPOXY RESIN PRIOR TO SHIPMENT OR STORAGE.
- CLEAN THE STRANDS FROM ALL FOREIGN MATERIALS SUCH AS RUST, SLAG, ETC. PRIOR TO APPLICATION OF POLYMER CEMENT GROUT OR EPOXY RESIN.

LEGEND:

- ◀▶ = TO BE DETAILED ON SHOP DRAWINGS
- ◻ = TOP SURFACE OF ALL BEAMS SHALL HAVE A "STIFF BROOM" FINISH TRANSVERSELY.

NOTES:

- FOR ADDITIONAL BEAM DETAILS, SEE SHEETS 26, 28, & 29.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

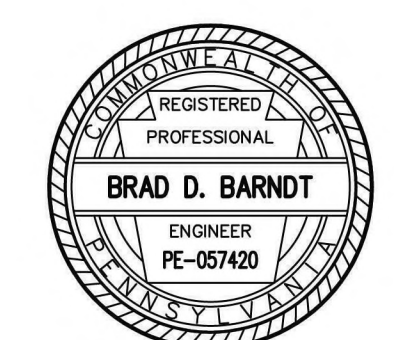
SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
BEAM DETAILS 2

RECOMMENDED 10/27/2022 SHEET 27 OF 54

S-36195



EXTERIOR BEAM SECTION PROPERTIES			
48" X 27" PRESTRESSED ADJACENT BOX BEAMS	NON-COMPOSITE	COMPOSITE	
		GROSS	TRANSFORMED
DEPTH (INCH)	27.00	-	-
AREA (INCH ²)	617.20	-	-
N.A. (BOTTOM) (INCH)	11.74	16.35	16.26
MOMENT OF INERTIA (INCH ⁴)	57311	110040	110935
SECTION MOD. (TOP OF SLAB) (INCH ³)	-	6565	6584
SECTION MOD. (TOP) (INCH ³)	3756	10333	10331
SECTION MOD. (BOTTOM) (INCH ³)	4881	6730	6822

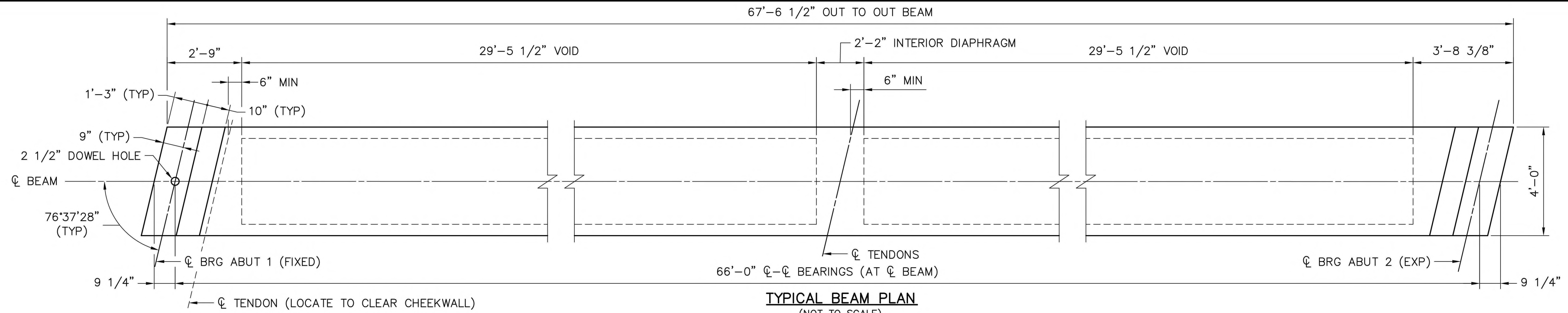
INTERIOR BEAM SECTION PROPERTIES			
48" X 27" PRESTRESSED ADJACENT BOX BEAMS	NON-COMPOSITE	COMPOSITE	
		GROSS	TRANSFORMED
DEPTH (INCH)	27.00	-	-
AREA (INCH ²)	617.20	-	-
N.A. (BOTTOM) (INCH)	11.74	15.57	15.49
MOMENT OF INERTIA (INCH ⁴)	57311	99645	100431
SECTION MOD. (TOP OF SLAB) (INCH ³)	-	6066	6082
SECTION MOD. (TOP) (INCH ³)	3756	8720	8722
SECTION MOD. (BOTTOM) (INCH ³)	4881	6399	6485

UNFACTORED BEAM SHEARS (KIPS)		
LOAD	INTERIOR	EXTERIOR
NON-COMPOSITE DEAD LOAD (DL1)	39.13	41.68
COMPOSITE DEAD LOAD (DL2)	20.62	20.13
FUTURE WEARING SURFACE (FWS)	3.53	3.53
POSITIVE LIVE LOAD PLUS IMPACT (PHL-93)	54.58	60.82
POSITIVE LIVE LOAD PLUS IMPACT (P-82)	84.04	93.65
POSITIVE LIVE LOAD PLUS IMPACT (P2016-13)	88.02	98.08

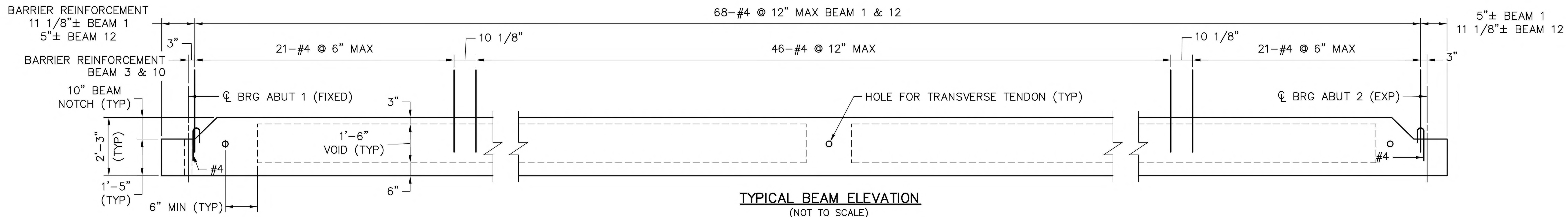
UNFACTORED BEAM MOMENTS (KIP-FT)		
LOAD	INTERIOR	EXTERIOR
NON-COMPOSITE DEAD LOAD (DL1)	680.60	723.00
COMPOSITE DEAD LOAD (DL2)	340.30	332.10
FUTURE WEARING SURFACE (FWS)	58.30	58.30
POSITIVE LIVE LOAD PLUS IMPACT (PHL-93)	548.20	549.40
POSITIVE LIVE LOAD PLUS IMPACT (P-82)	667.30	668.70
POSITIVE LIVE LOAD PLUS IMPACT (P2016-13)	814.90	816.70

W:\01\19A\0119A-04-SR-0183\DWGS\CAD\2013\bridge\DWGS\0119A-04-SR0183-05B-FR-FINAL.dwg - BEAM 2 - 8/29/2022 3:01 PM

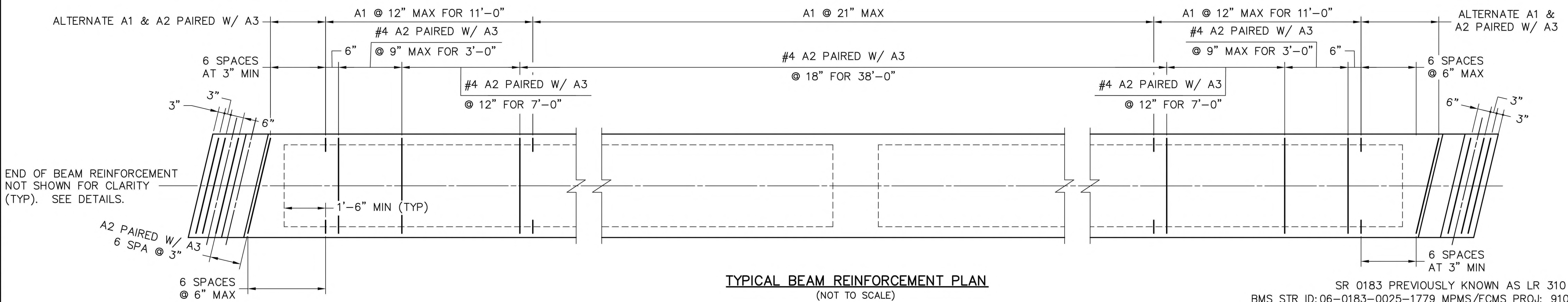
DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB



TYPICAL BEAM PLAN
(NOT TO SCALE)



TYPICAL BEAM ELEVATION
(NOT TO SCALE)



TYPICAL BEAM REINFORCEMENT PLAN
(NOT TO SCALE)

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

NOTES:

- FOR ADDITIONAL BEAM DETAILS, SEE SHEETS 26, 27, & 29.



COMMONWEALTH OF PENNSYLVANIA
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S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
BEAM DETAILS 3

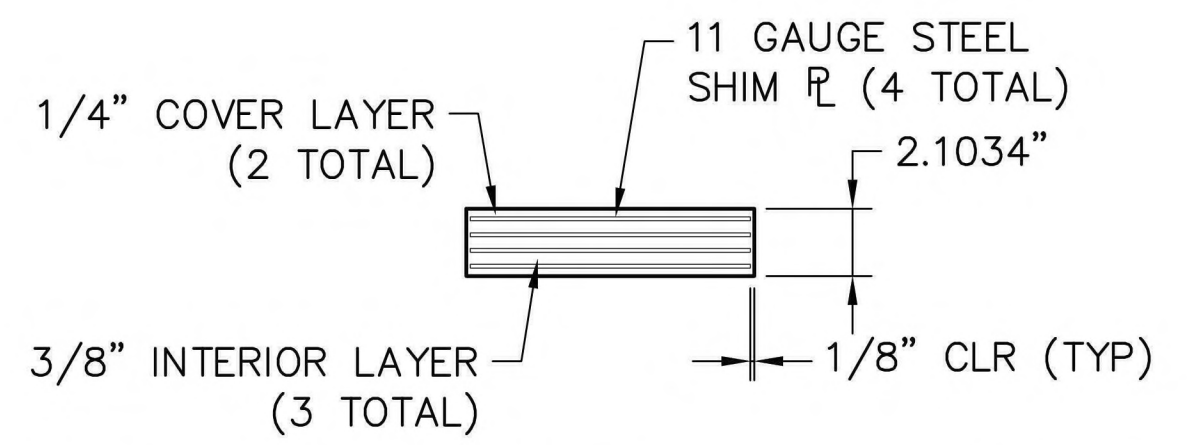
RECOMMENDED 10 / 27 / 2022 SHEET 28 OF 54

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

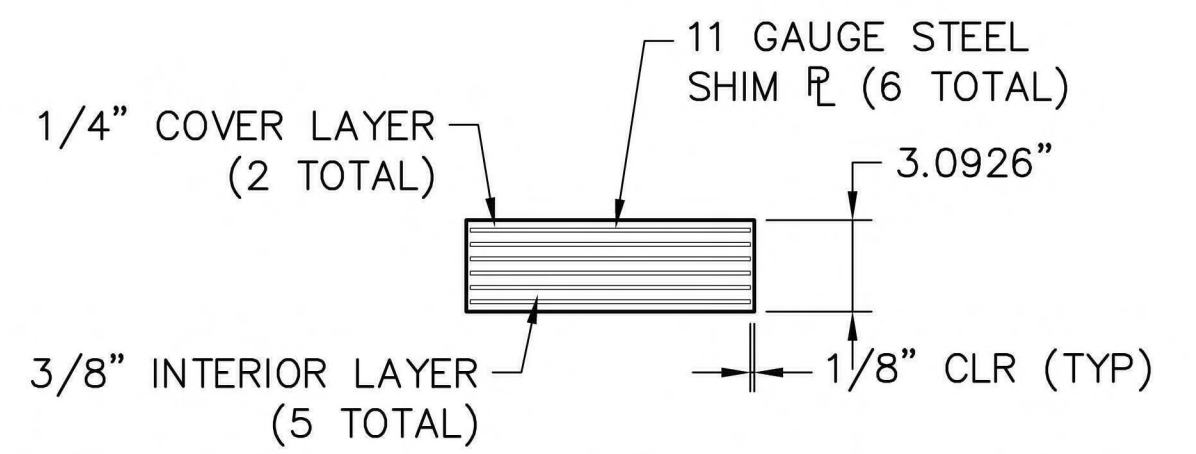
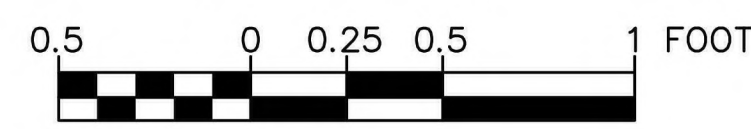
DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

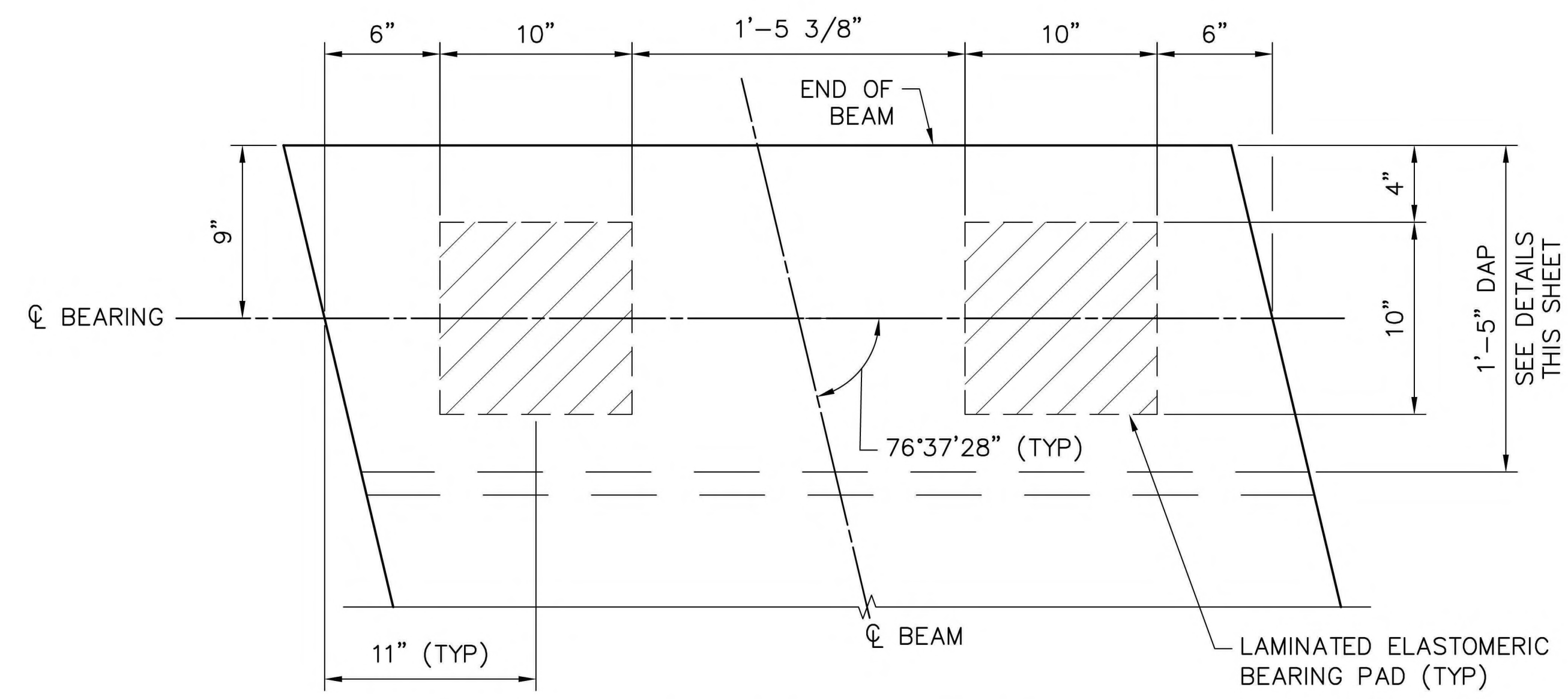
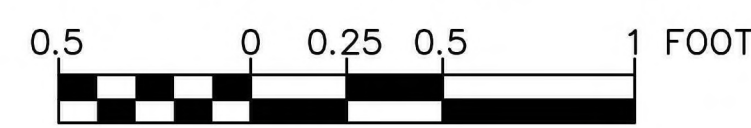
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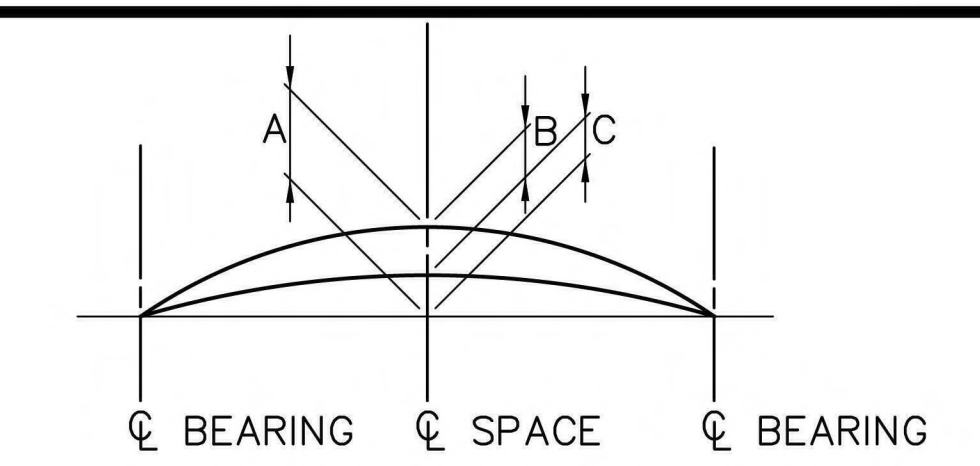
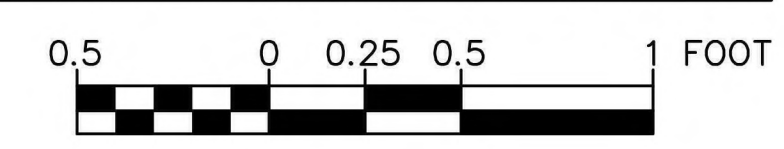
ABUTMENT 1 TYPICAL BEARING PAD SECTION
(24 REQUIRED)



ABUTMENT 2 TYPICAL BEARING PAD SECTION
(24 REQUIRED)



TYPICAL BEARING PAD LAYOUT



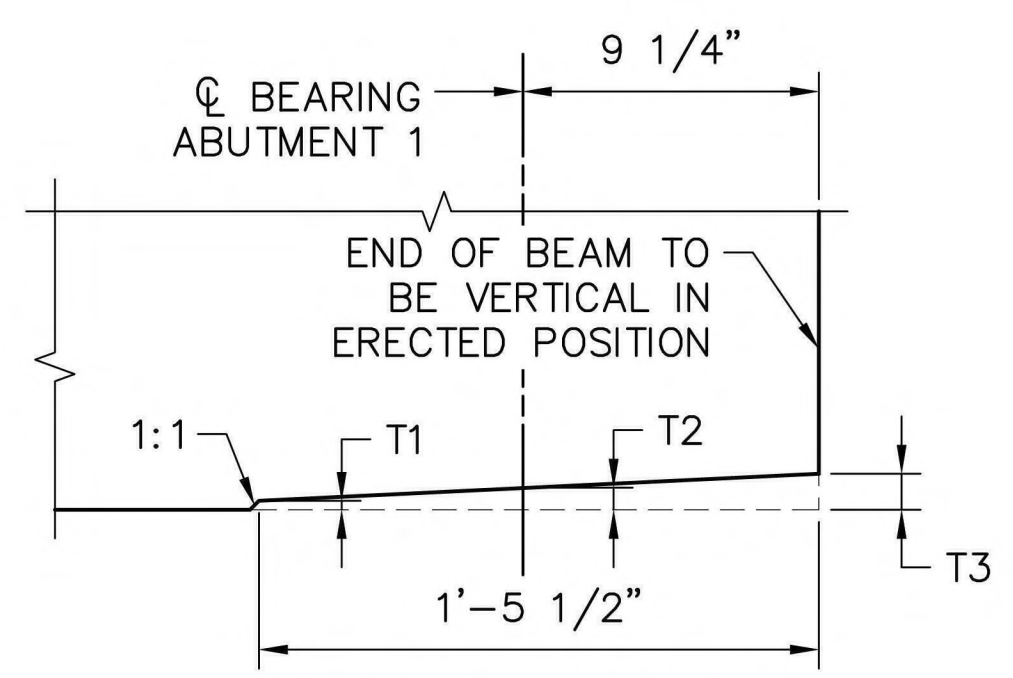
TYPICAL BEAM CAMBER DIAGRAM
(NOT TO SCALE)

BEAM CAMBER EASTBOUND			
BEAM	(A)	(B)	(C)
B-01	2.63	1.47	1.16
B-02	2.62	1.36	1.26
B-03	2.62	1.36	1.26
B-04	2.62	0.85	1.77
B-05	2.63	0.67	1.96
B-06	2.63	0.67	1.96
B-07	2.63	0.67	1.96
B-08	2.63	0.67	1.96
B-09	2.62	0.85	1.77
B-10	2.62	1.37	1.25
B-11	2.62	1.37	1.25
B-12	2.63	1.48	1.15

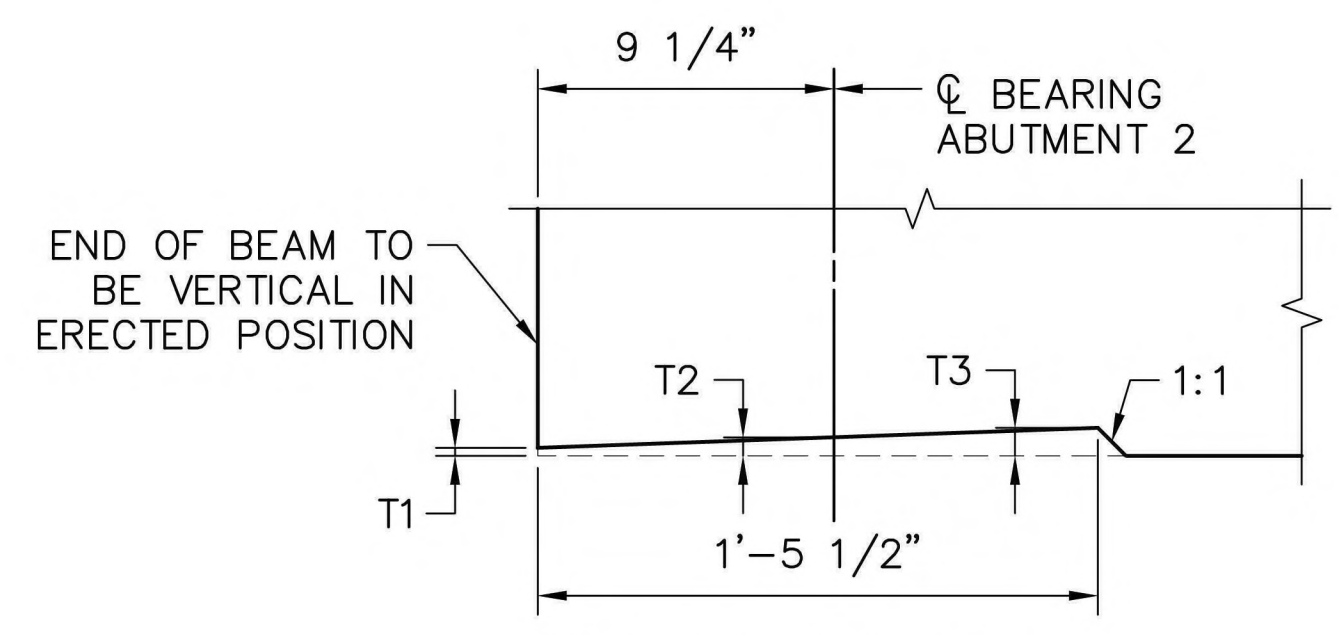
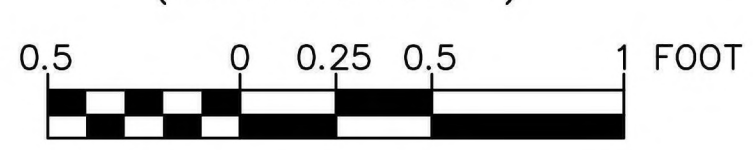
BEARING PAD NOTES:

- ELASTOMERIC BEARINGS DESIGNED & MANUFACTURED IN ACCORDANCE WITH BC-755M DO NOT REQUIRE SHOP DRAWINGS.
- MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUBLICATION 408) SECTION 1113.
- HOLES ARE NOT PERMITTED IN ELASTOMERIC BEARINGS UNLESS INDICATED ON THE DESIGN DRAWINGS.
- PROVIDE NEOPRENE 50 ±5 DUROMETER.
- PROVIDE MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
- ELASTOMERIC BEARING PADS ARE INCIDENTAL TO PRESTRESSED CONCRETE BEAMS.

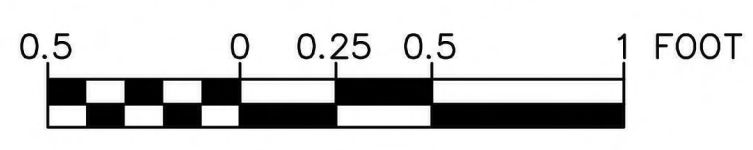
BEAM DAP				
BEAM	DETAILS	T1	T2	T3
B-01	ABUTMENT 1	3/8 IN	1/2 IN	5/8 IN
	ABUTMENT 2	1/2 IN	1/2 IN	1/2 IN
B-02	ABUTMENT 1	3/8 IN	1/2 IN	5/8 IN
	ABUTMENT 2	1/2 IN	1/2 IN	1/2 IN
B-03	ABUTMENT 1	3/8 IN	1/2 IN	5/8 IN
	ABUTMENT 2	7/16 IN	1/2 IN	1/2 IN
B-04	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	1/2 IN	1/2 IN	1/2 IN
B-05	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	1/2 IN	1/2 IN	1/2 IN
B-06	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	1/2 IN	1/2 IN	1/2 IN
B-07	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	7/16 IN	1/2 IN	1/2 IN
B-08	ABUTMENT 1	5/16 IN	1/2 IN	3/4 IN
	ABUTMENT 2	7/16 IN	1/2 IN	3/4 IN
B-09	ABUTMENT 1	5/16 IN	1/2 IN	3/4 IN
	ABUTMENT 2	7/16 IN	1/2 IN	3/4 IN
B-10	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	7/16 IN	1/2 IN	3/4 IN
B-11	ABUTMENT 1	5/16 IN	1/2 IN	11/16 IN
	ABUTMENT 2	3/8 IN	1/2 IN	3/4 IN
B-12	ABUTMENT 1	5/16 IN	1/2 IN	3/4 IN
	ABUTMENT 2	3/8 IN	1/2 IN	5/8 IN



TYPICAL DAP DETAIL
(AT ABUTMENT 1)



TYPICAL DAP DETAIL
(AT ABUTMENT 2)



BEAM CAMBER NOTES:

- A = ESTIMATED PRESTRESS CAMBER LESS DEFLECTION DUE TO DEAD LOAD OF BEAM TIMES CREEP FACTOR. (CHECK IN FIELD).
- B = DEFLECTION DUE TO ALL DEAD LOAD EXCEPT BEAM WEIGHT AND FUTURE WEARING SURFACE.
- C = A - B (NET FINAL CAMBER).

- VARY THE THICKNESS OF THE CONCRETE HAUNCH TO COMPENSATE FOR ANY INACCURACIES IN BEAM CAMBER.
- A, B & C ARE THEORETICAL VALUES AND MAY VARY WITH ACTUAL CONCRETE STRENGTH (AGE), VARIOUS PRESTRESSING CONDITIONS, CREEP FACTOR AND PRESTRESS LOSSES.
- USE A CREEP FACTOR EQUAL TO 1.6 AND PRESTRESS LOSS EQUAL TO 10%.
- BEAM SEAT ELEVATIONS HAVE BEEN CALCULATED CONSIDERING A VALUE "C".

LEGEND:

FF FRONT FACE

NOTES:

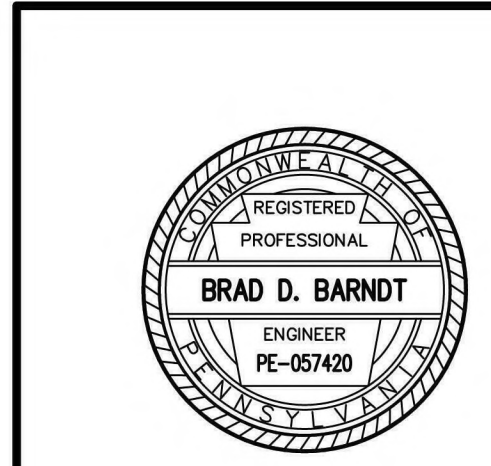
- FOR ADDITIONAL BEAM DETAILS, SEE SHEETS 26, 27, & 29.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
BEAM DETAILS 4

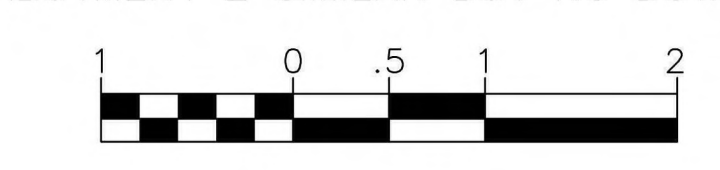
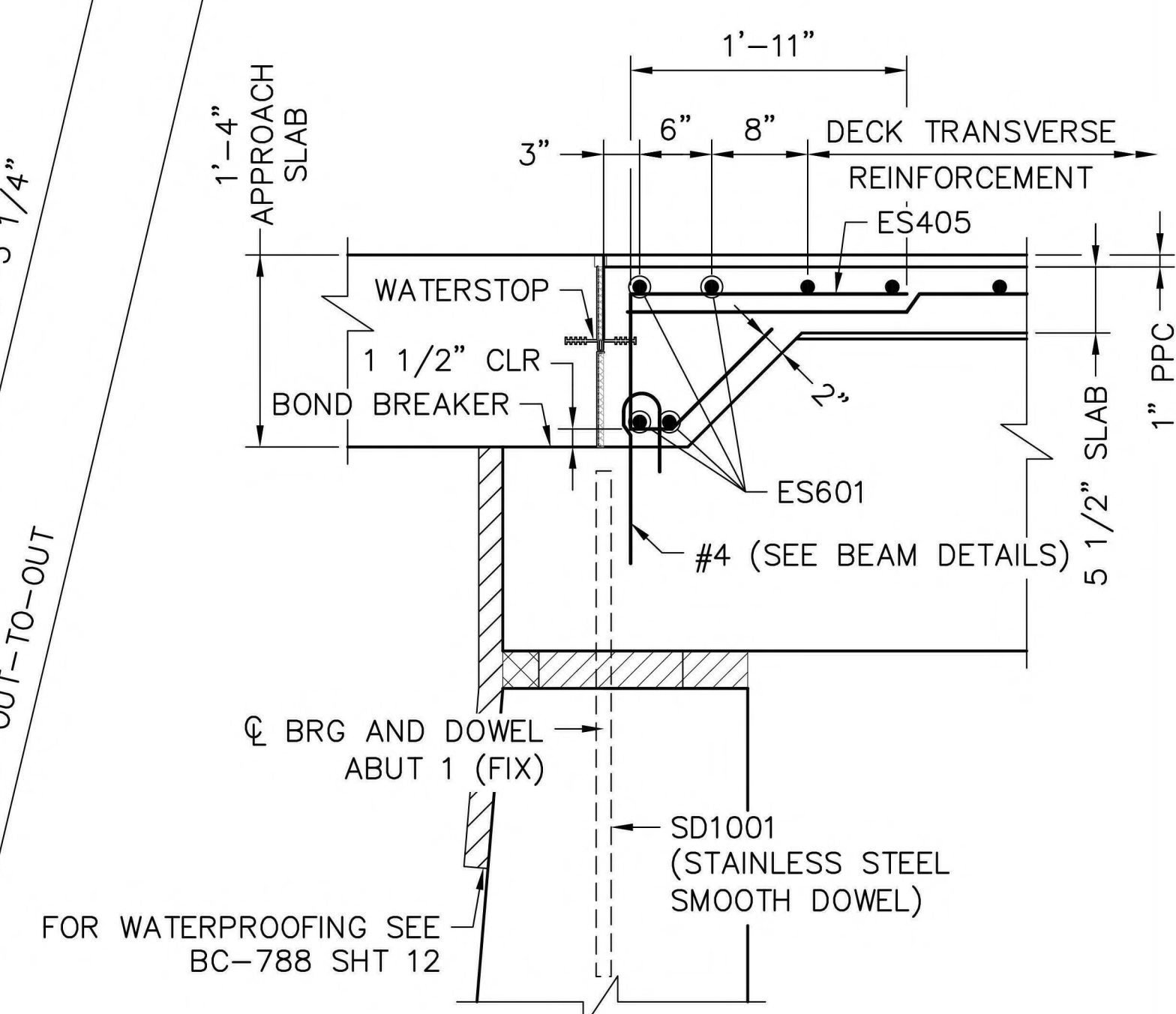
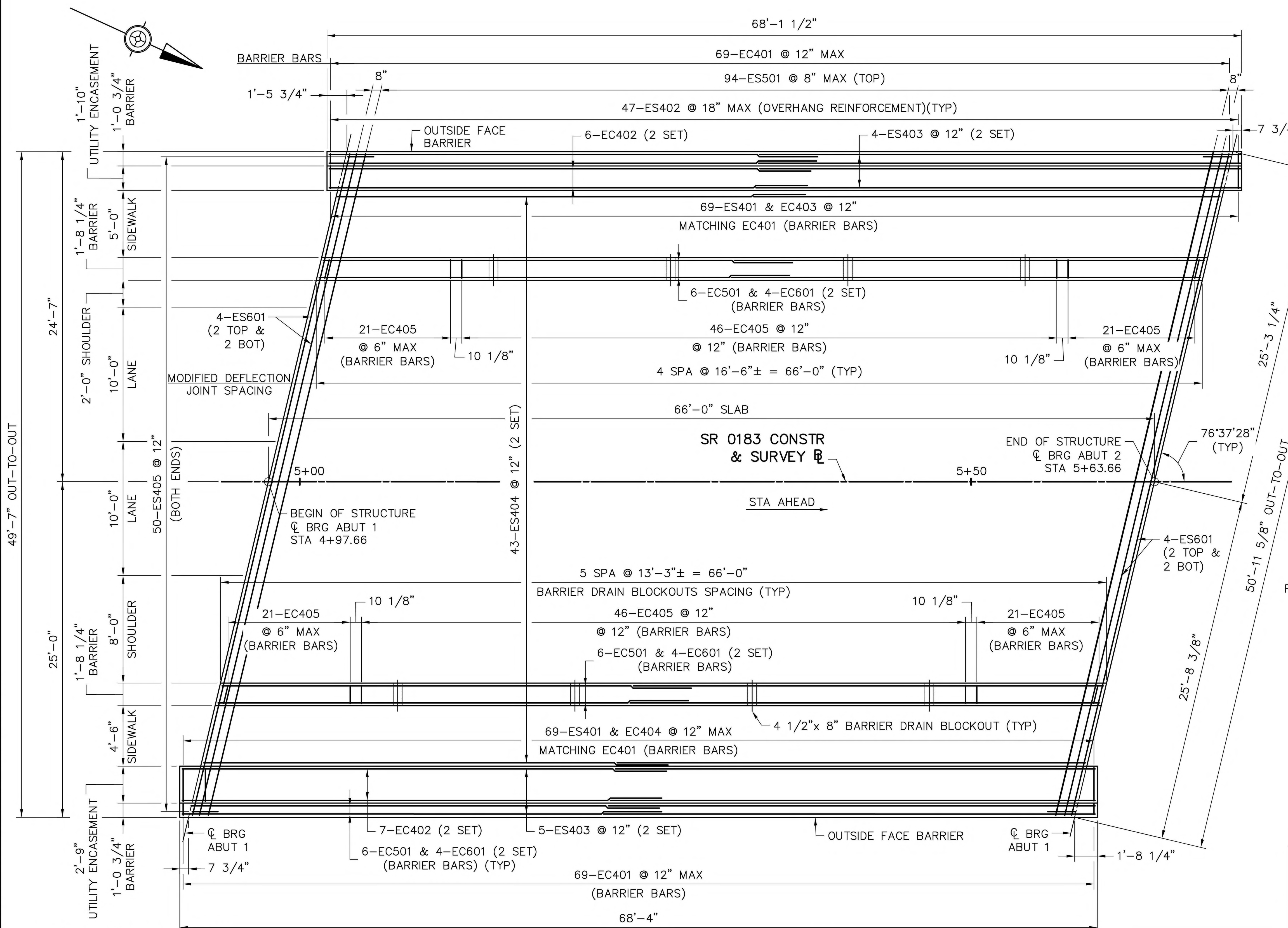


RECOMMENDED 10/27/2022 SHEET 29 OF 54

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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W:\01\194\01194-04-SR_0183\DWG\320213\bridge\DWG\01194-04-SR0183-05B-FR-FINAL.dwg - SLAB PLAN - 9/29/2022 3:01 PM



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

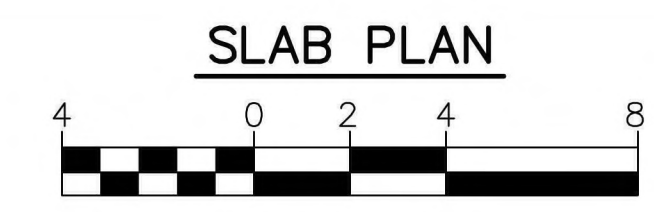
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
SLAB PLAN

RECOMMENDED 10/27/2022 SHEET 30 OF 54



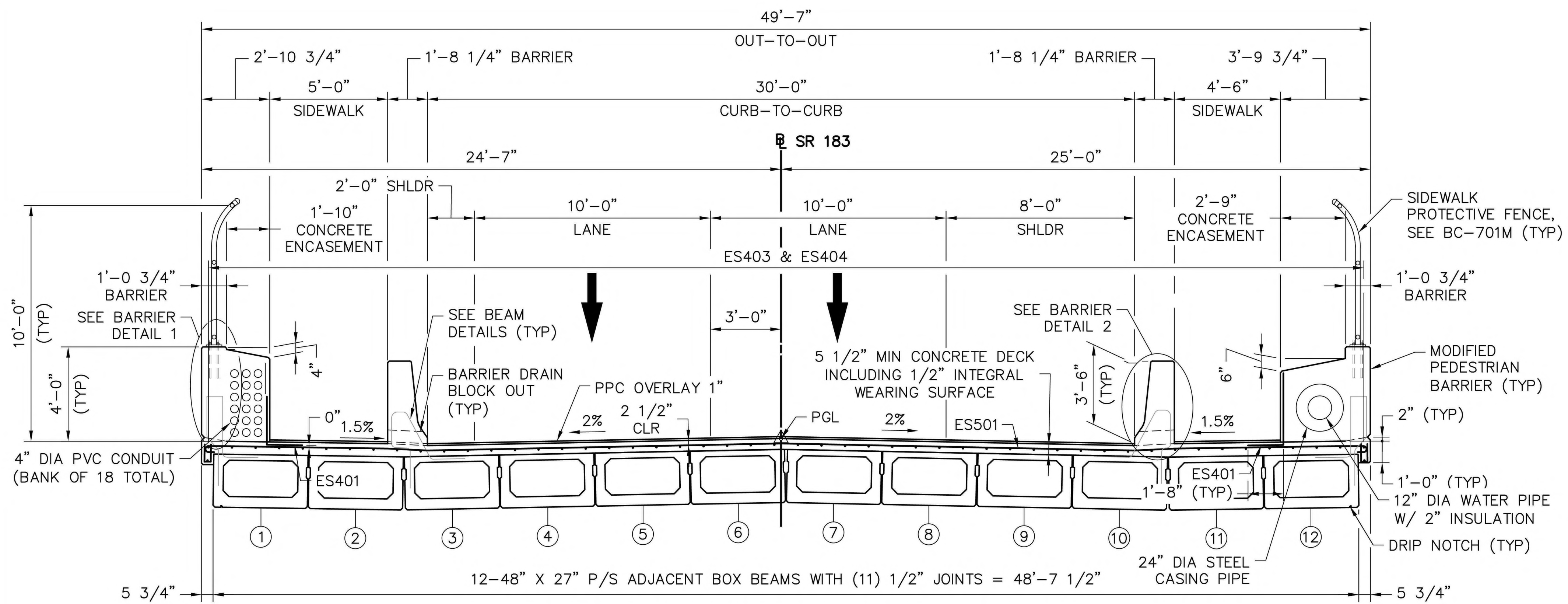
- LEGEND:**
- PCP PREFORMED CELLULAR POLYSTYRENE OF OUTSIDE FACE
 - PPC POLYESTER POLYMER CONCRETE
- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 2.
 - FOR FRAMING PLAN, SEE SHEET 25.
 - FOR TYPICAL SECTION, SEE SHEET 31.
 - FOR DECK ELEVATIONS, SEE SHEETS 34 & 35.
 - FOR REINFORCEMENT SCHEDULE, SEE SHEET 36.



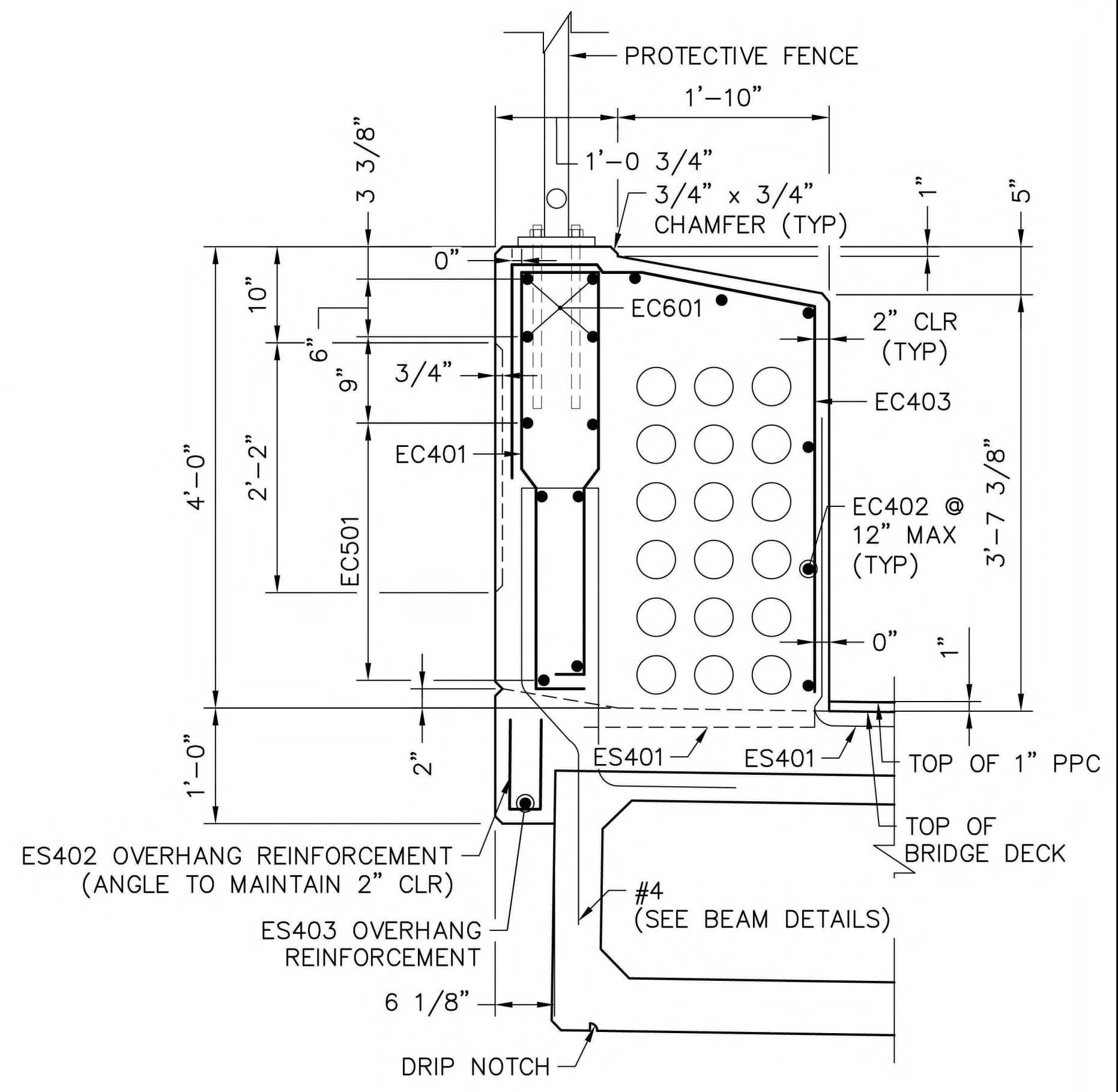
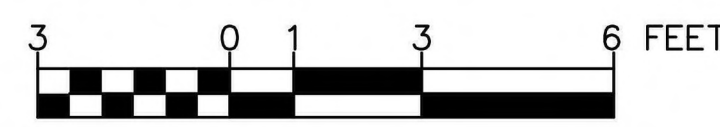
- MIN LAP SPLICE LENGTH:**
- #4-2'-10" BARRIER BAR
 - #5-3'-7" BARRIER BAR
 - #6-4'-4" BARRIER BAR
 - #4-1'-9" SLAB BAR

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

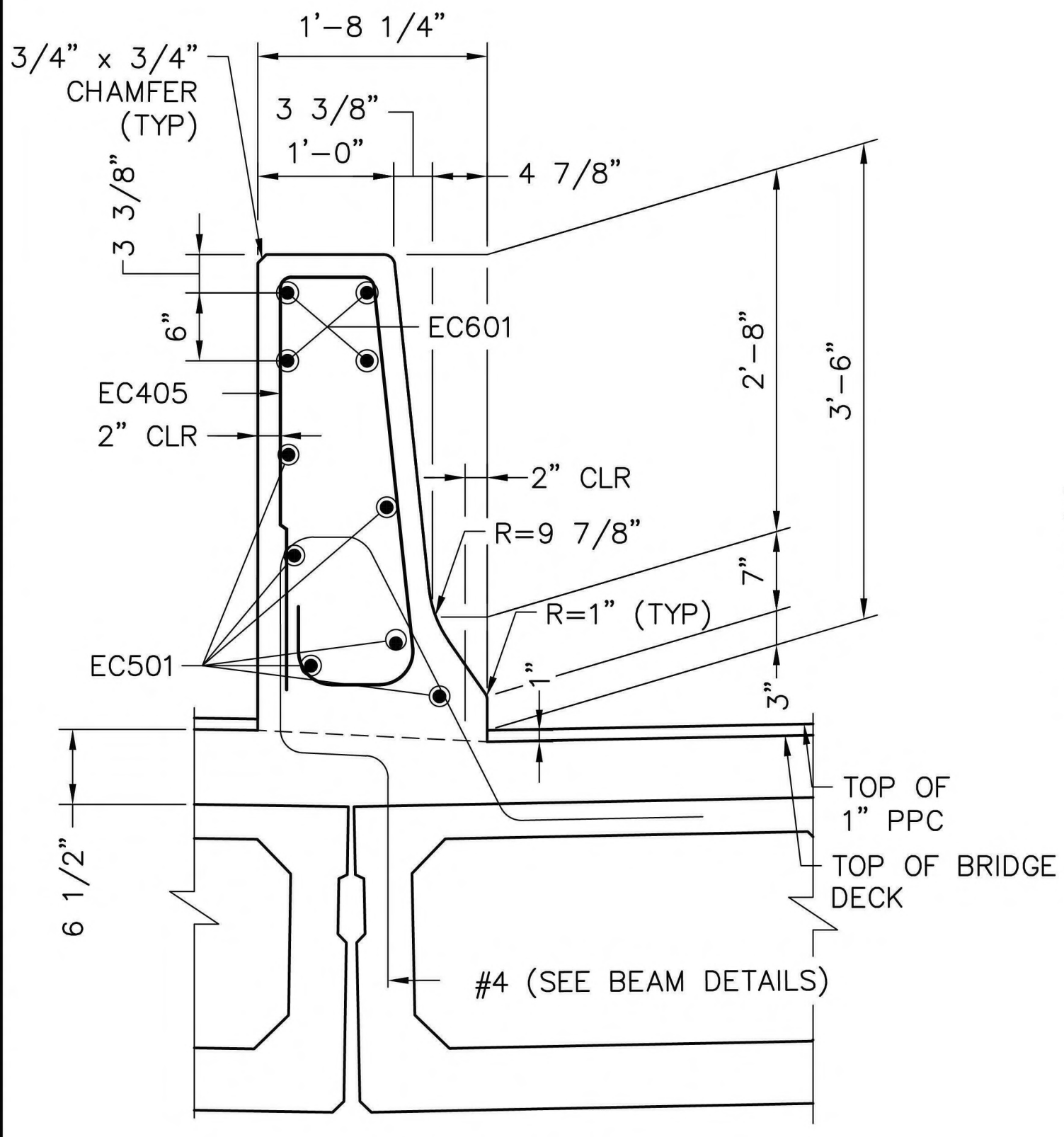
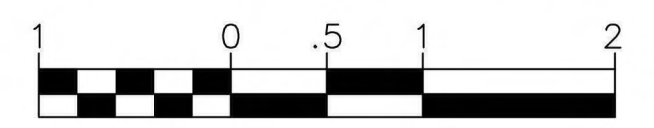
S-36195



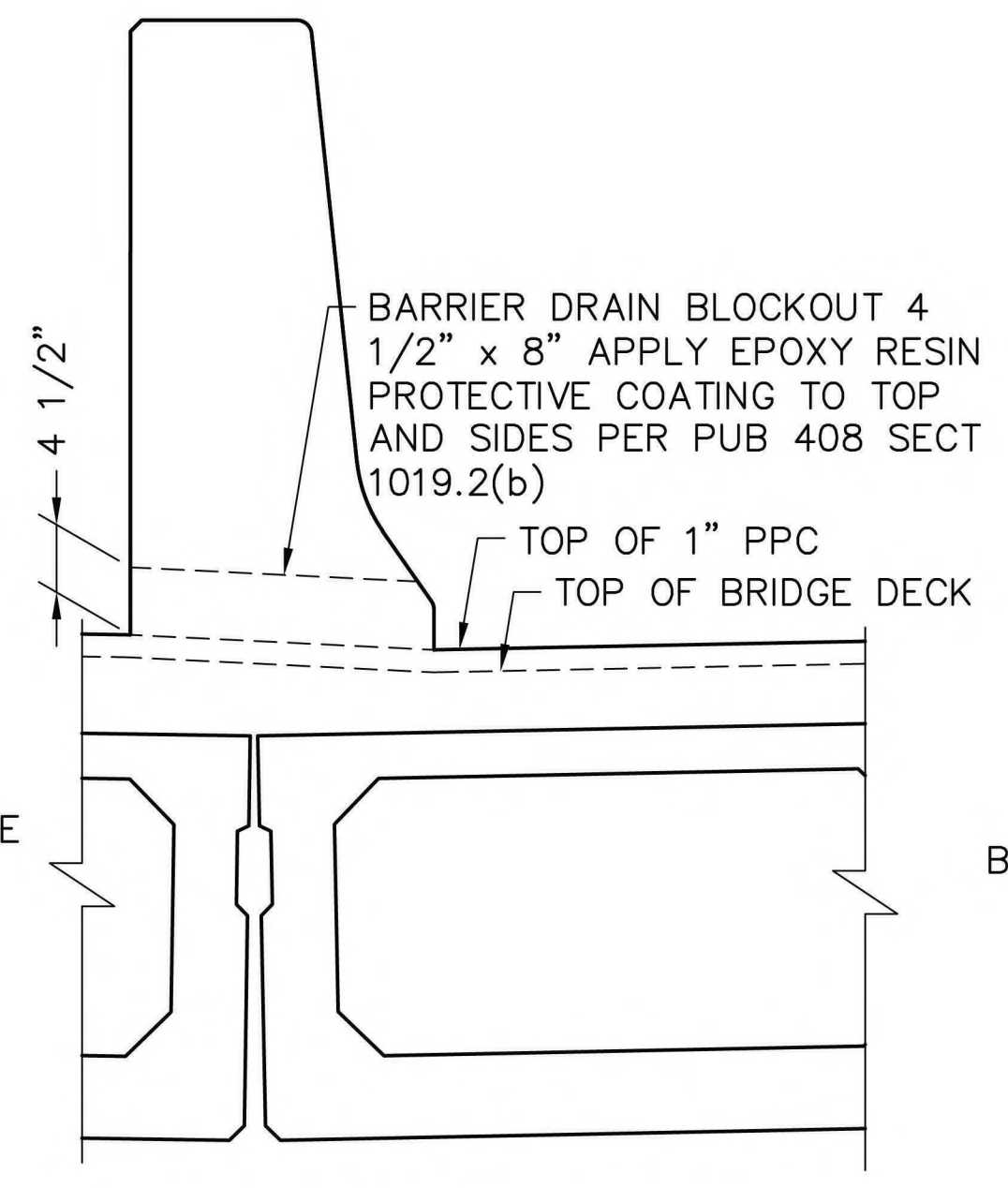
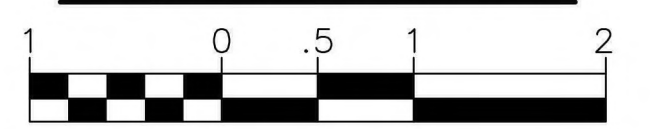
PROPOSED BRIDGE SECTION



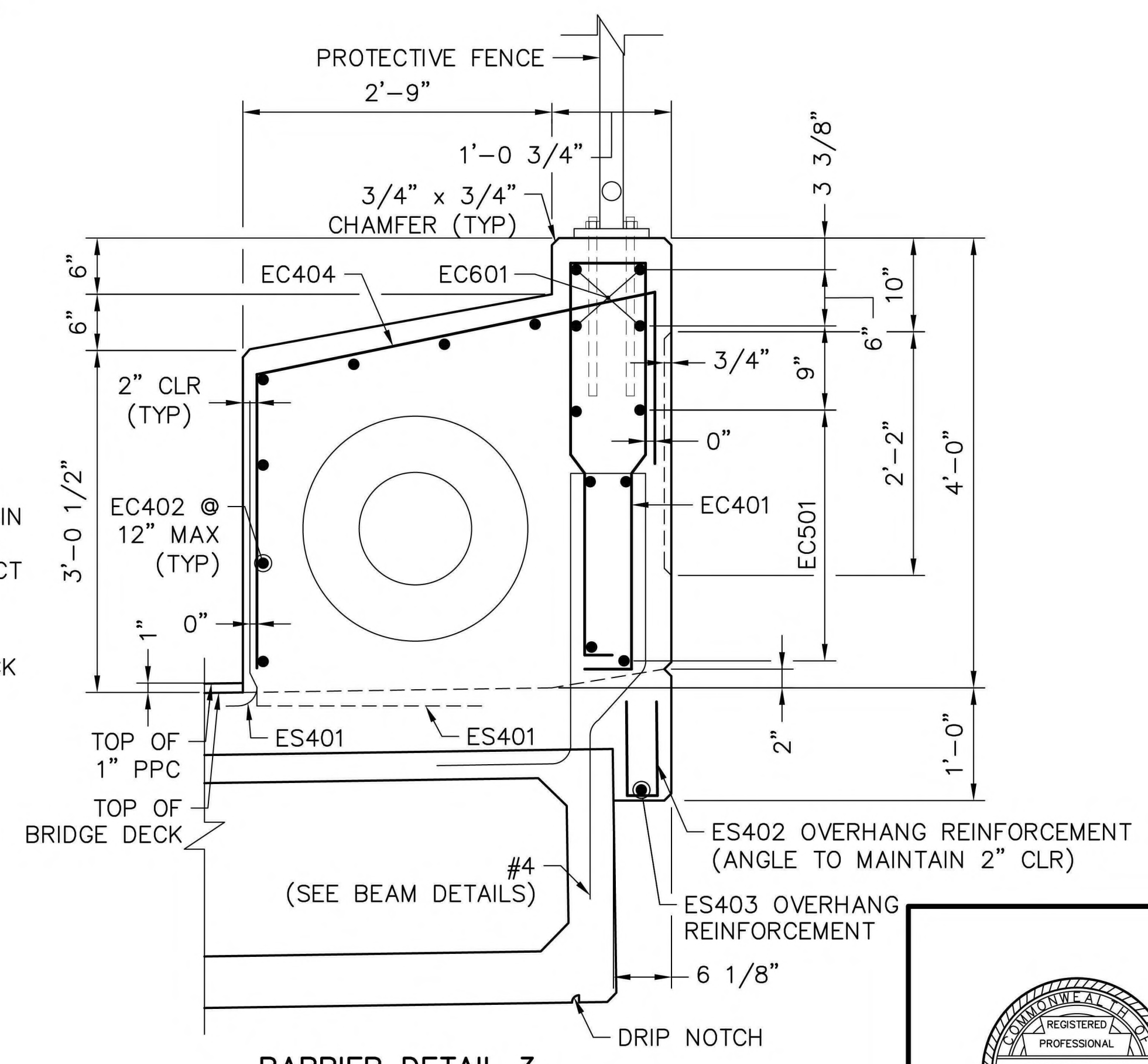
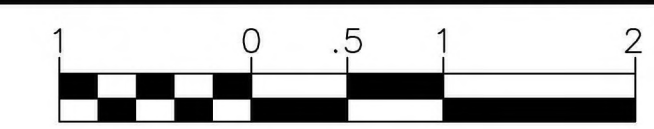
BARRIER DETAIL 1



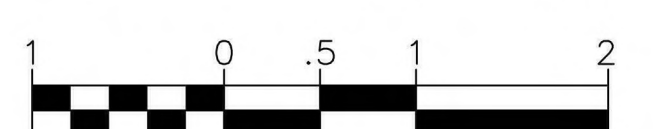
BARRIER DETAIL 2



BARRIER DRAIN BLOCKOUT



BARRIER DETAIL 3



LEGEND:

- PPC POLYSTYRENE POLYMER CONCRETE
- ⊗ BEAM NUMBER

NOTES:

- FOR GENERAL NOTES, SEE SHEET 3.
- FOR FRAMING PLAN, SEE SHEET 25.
- FOR SLAB PLAN, SEE SHEET 30.
- FOR ARCHITECTURAL BARRIER DETAILS, SEE SHEET 32.
- FOR FENCING PLAN, SEE SHEET 33.
- FOR REINFORCEMENT SCHEDULE, SEE SHEET 36.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
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 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TYPICAL SECTION & BARRIER DETAILS

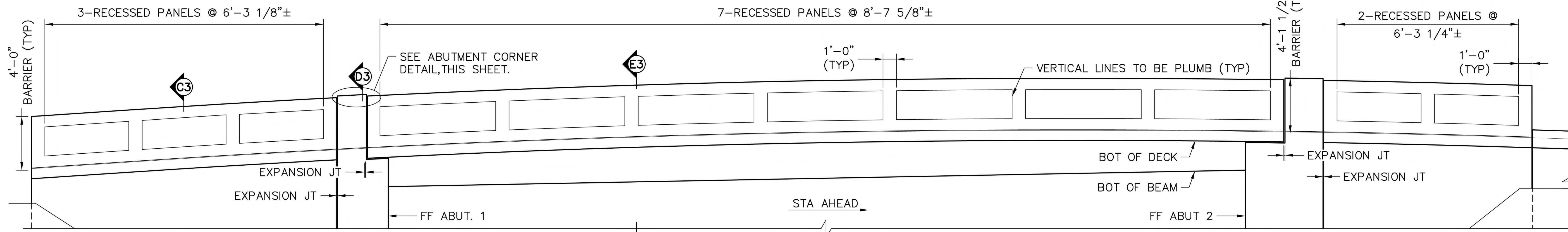


RECOMMENDED 10/27/2022 SHEET 31 OF 54

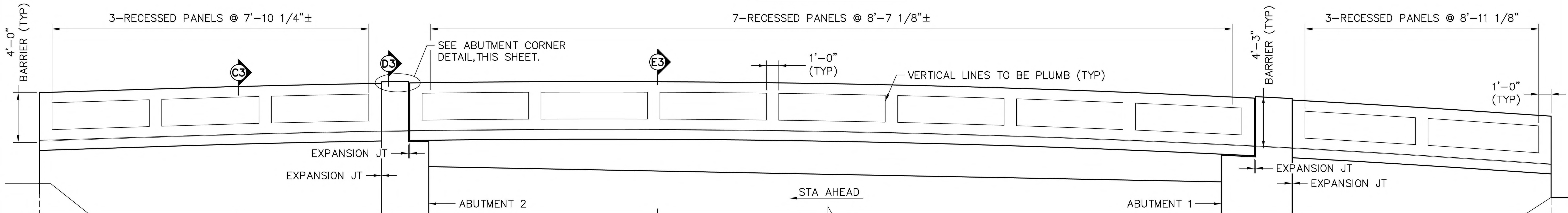
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 DWG: JTP CHK'D: BDB

S-36195

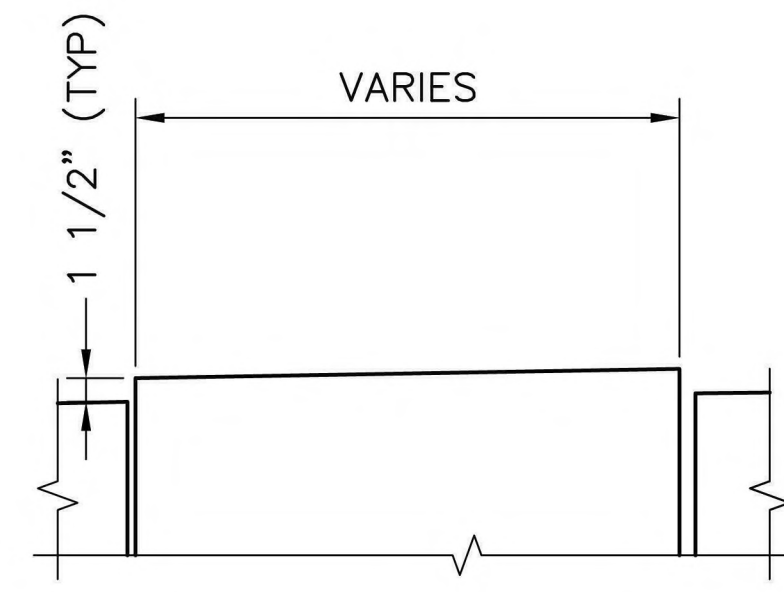
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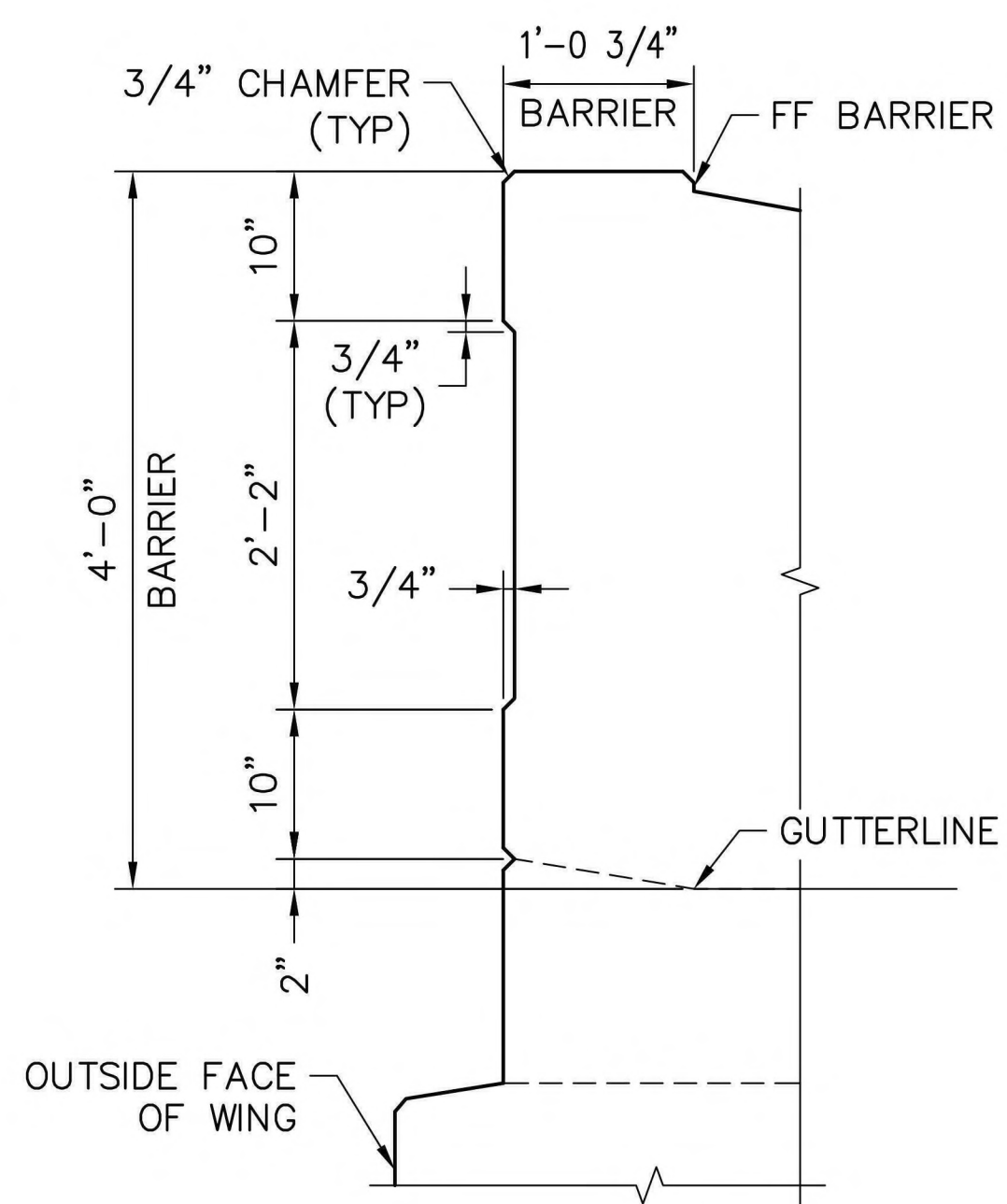
SECTION A3-A3
(ARCHITECTURE DETAIL)
(PROTECTIVE FENCE NOT SHOWN FOR CLARITY)



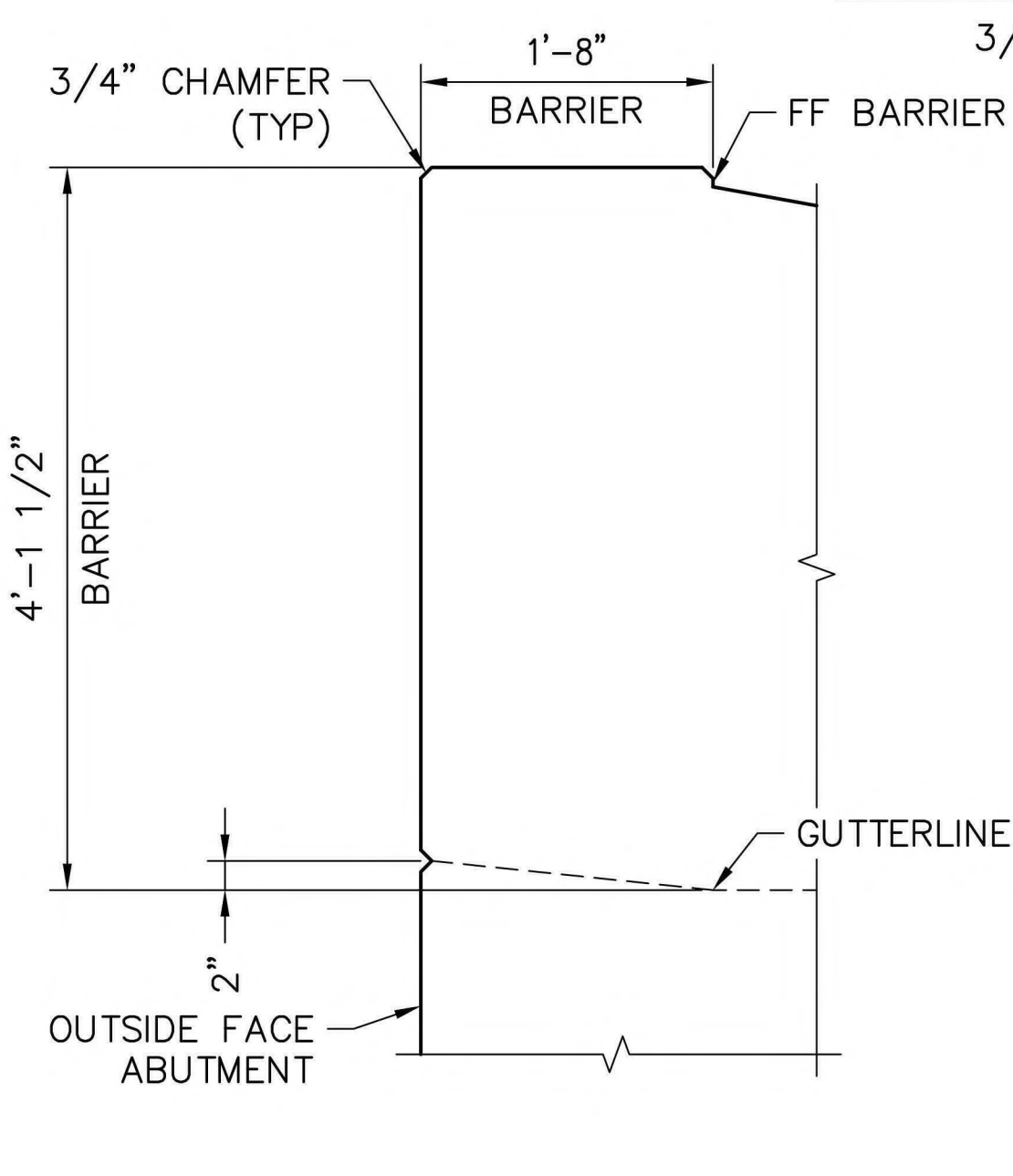
SECTION B3-B3
(ARCHITECTURE DETAIL)
(PROTECTIVE FENCE NOT SHOWN FOR CLARITY)



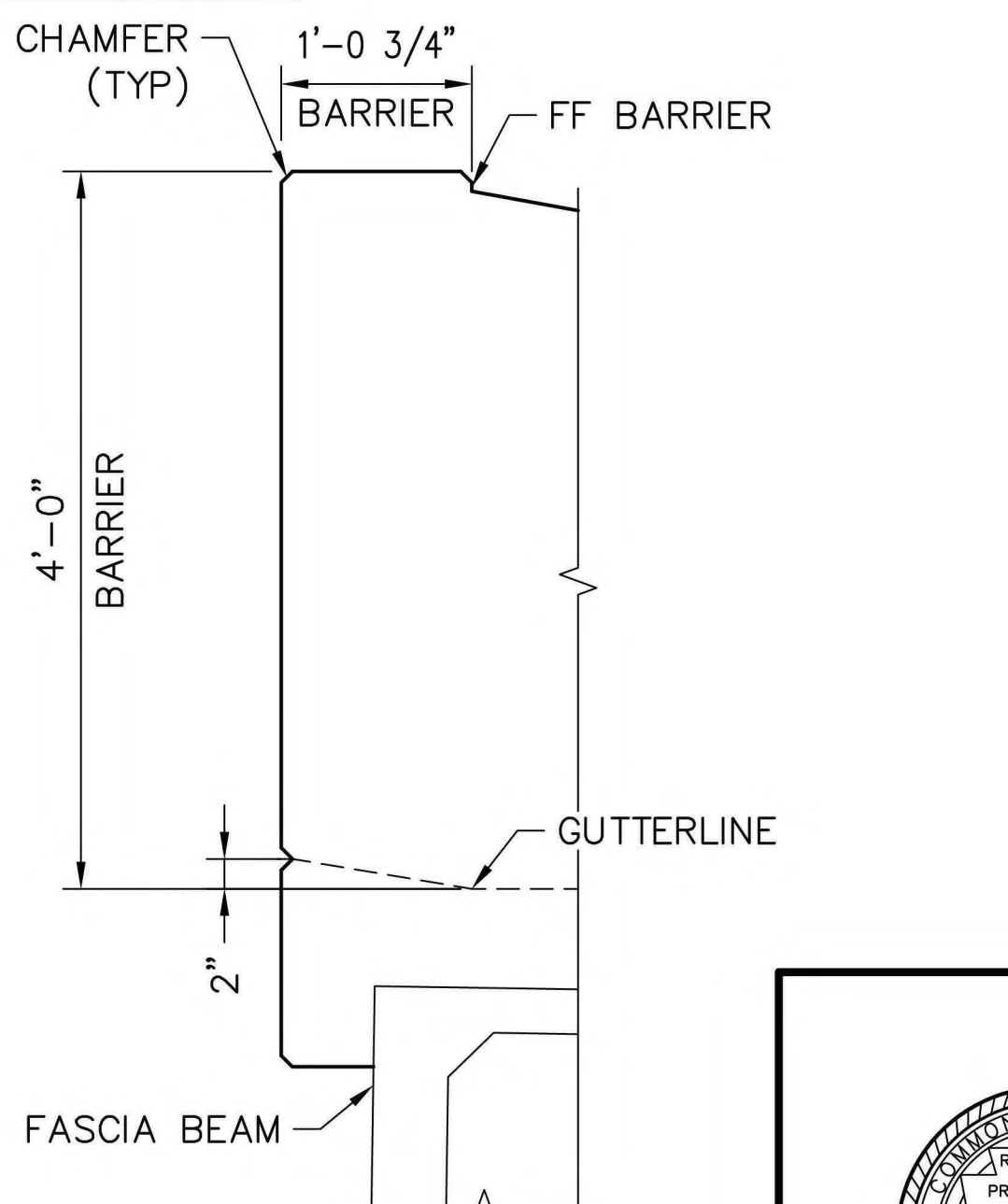
ABUTMENT CORNER DETAIL
(FENCE NOT SHOWN FOR CLARITY)



SECTION C3-C3
(FENCE NOT SHOWN FOR CLARITY)



SECTION D3-D3
(FENCE NOT SHOWN FOR CLARITY)



SECTION E3-E3
(FENCE NOT SHOWN FOR CLARITY)

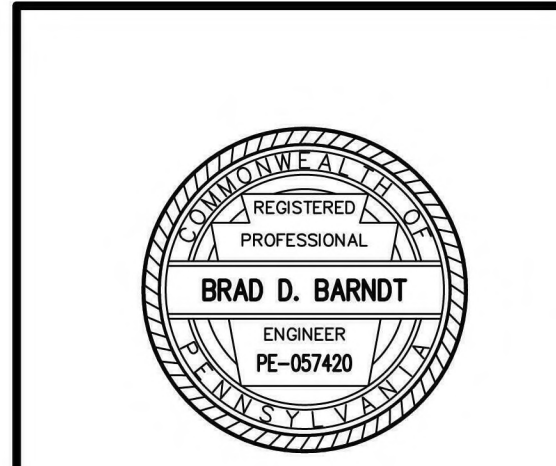
LEGEND:
FF FRONT FACE

- NOTES:**
- FOR PROTECTIVE FENCE PLAN, SEE SHEET 33.
 - FOR SECTION LOCATIONS, SEE SHEET 33.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
ARCHITECTURAL BARRIER DETAILS



RECOMMENDED 10/27/2022

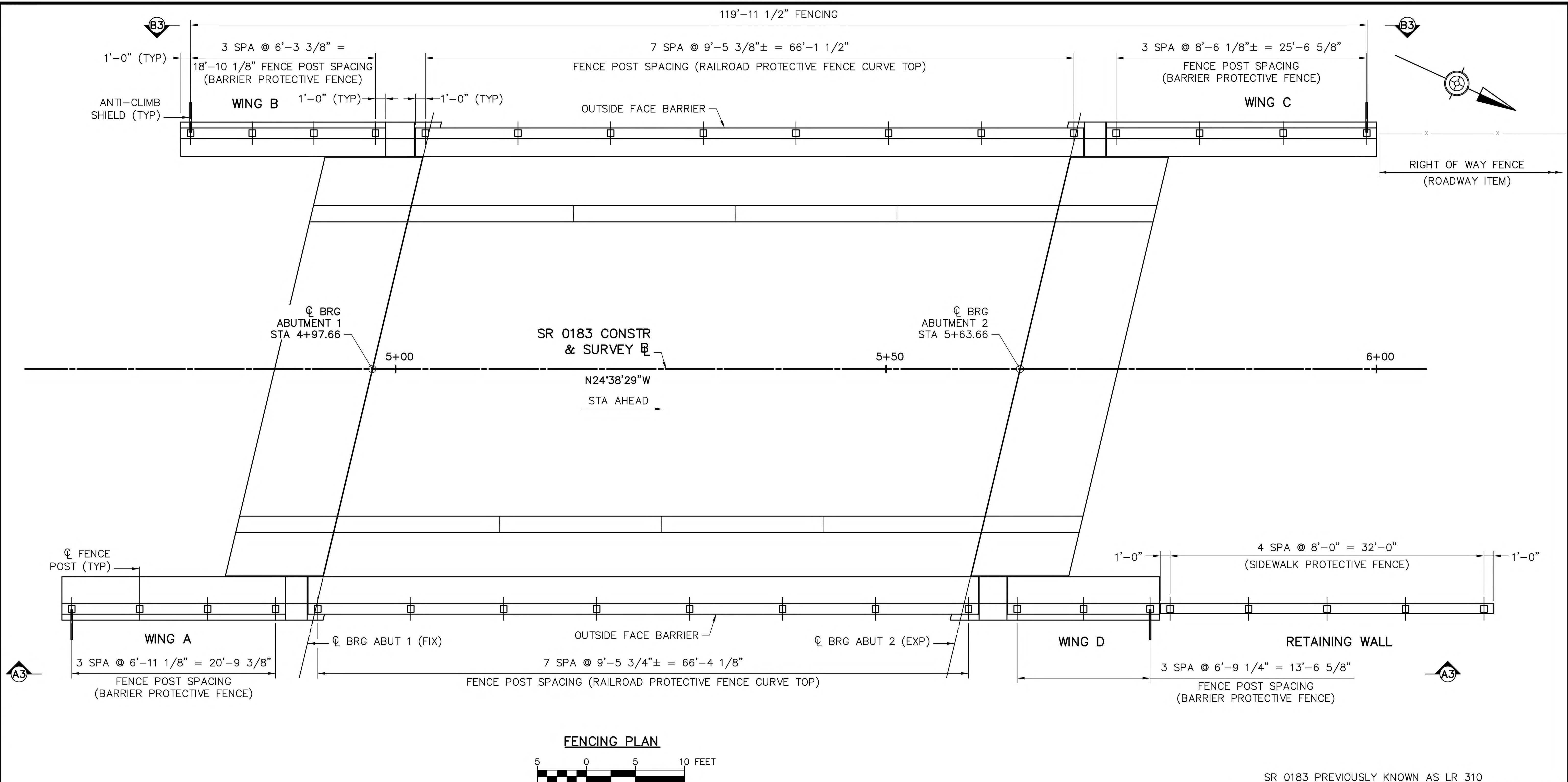
SHEET 32 OF 54

S-36195

W:\01\19A\0119A-04-SR_0183\DWG\CAD\2022\Bridg DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - BARRIER DETAILS - 8/23/2022 3:01 PM

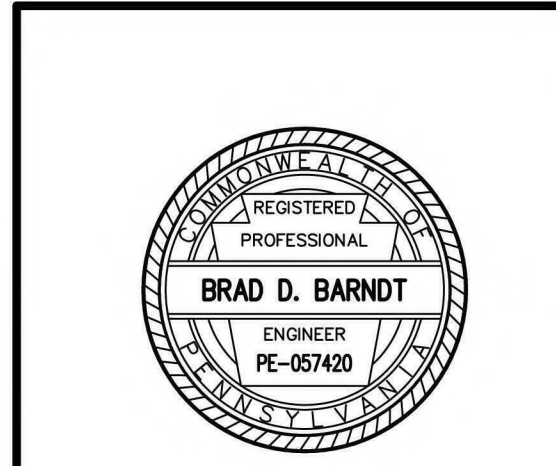
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DWG: JTP	CHK'D: BDB

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- NOTES:**
- FOR GENERAL NOTES, SEE SHEET 3.
 - FOR TYPICAL SECTION, SEE SHEET 31.
 - FOR BEAM DETAILS, SEE SHEETS 26 THRU 29.
 - FOR SLAB PLAN, SEE SHEET 30.
 - FOR SECTION A3-A3 & B3-B3, SEE SHEET 32.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					



SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 FENCE PLAN

RECOMMENDED 10/27/2022

SHEET 33 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

TOP OF DECK ELEVATIONS @ BREAK-IN-SLOPE (FINAL CONDITION, TOP OF 1" PPC OVERLAY)

STATION	ELEV (A)	ELEV (B)	ELEV (C)	ELEV (D)	ELEV (E)	ELEV (F)	ELEV (G)	ELEV (H)	ELEV (I)	REMARKS
4+80.00	293.32	293.29	293.21	293.13	293.43	293.13	293.21	293.28	293.32	
4+81.97	293.44	293.41	293.33	293.25	293.55	293.25	293.33	293.40	293.44	BEGIN APPROACH SLAB 1 @ I
4+82.50	293.47	293.44	293.37	293.28	293.58	293.28	293.37	293.43	293.47	BEGIN APPROACH SLAB 1 @ H
4+83.69	293.54	293.51	293.44	293.35	293.65	293.35	293.44	293.50	293.54	BEGIN APPROACH SLAB 1 @ G
4+84.09	293.56	293.53	293.46	293.38	293.68	293.38	293.46	293.53	293.57	BEGIN APPROACH SLAB 1 @ F
4+87.66	293.76	293.73	293.66	293.58	293.88	293.58	293.66	293.73	293.77	BEGIN APPROACH SLAB 1 @ E
4+90.00	293.89	293.86	293.78	293.70	294.00	293.70	293.78	293.85	293.89	
4+91.23	293.95	293.92	293.85	293.76	294.06	293.76	293.85	293.92	293.96	BEGIN APPROACH SLAB 1 @ D
4+91.63	293.97	293.94	293.87	293.79	294.09	293.79	293.87	293.94	293.98	BEGIN APPROACH SLAB 1 @ C
4+91.97	293.99	293.96	293.89	293.80	294.10	293.80	293.89	293.95	293.99	⊕ BRG ABUT 1 @ I
4+92.50	294.01	293.99	293.91	293.83	294.13	293.83	293.91	293.98	294.02	⊕ BRG ABUT 1 @ H
4+92.82	294.03	294.00	293.93	293.84	294.14	293.84	293.93	294.00	294.04	BEGIN APPROACH SLAB 1 @ B
4+93.25	294.05	294.02	293.95	293.87	294.17	293.87	293.95	294.02	294.06	BEGIN APPROACH SLAB 1 @ A
4+93.69	294.07	294.05	293.97	293.89	294.19	293.89	293.97	294.04	294.08	⊕ BRG ABUT 1 @ G
4+94.09	294.09	294.07	293.99	293.91	294.21	293.91	293.99	294.06	294.10	⊕ BRG ABUT 1 @ F
4+97.66	294.26	294.23	294.16	294.07	294.37	294.07	294.16	294.22	294.27	⊕ BRG ABUT 1 @ E
5+00.00	294.36	294.33	294.26	294.18	294.48	294.18	294.26	294.33	294.37	
5+01.23	294.41	294.39	294.31	294.23	294.53	294.23	294.31	294.38	294.42	⊕ BRG ABUT 1 @ D
5+01.63	294.43	294.40	294.33	294.24	294.54	294.24	294.33	294.40	294.44	⊕ BRG ABUT 1 @ C
5+02.82	294.48	294.45	294.38	294.29	294.59	294.29	294.38	294.44	294.48	⊕ BRG ABUT 1 @ B
5+03.25	294.50	294.47	294.39	294.31	294.61	294.31	294.39	294.46	294.50	⊕ BRG ABUT 1 @ A
5+10.00	294.74	294.71	294.64	294.56	294.86	294.56	294.64	294.71	294.75	
5+20.00	295.03	295.00	294.92	294.84	295.14	294.84	294.92	294.99	295.03	
5+30.00	295.21	295.19	295.11	295.03	295.33	295.03	295.11	295.18	295.22	
5+40.00	295.31	295.28	295.21	295.12	295.42	295.12	295.21	295.27	295.31	
5+50.00	295.31	295.28	295.20	295.12	295.42	295.12	295.20	295.27	295.31	
5+57.96	295.24	295.21	295.13	295.05	295.35	295.05	295.13	295.20	295.24	⊕ BRG ABUT 2 @ I
5+58.50	295.23	295.20	295.13	295.04	295.34	295.04	295.13	295.19	295.24	⊕ BRG ABUT 2 @ H
5+59.69	295.21	295.19	295.11	295.03	295.33	295.03	295.11	295.18	295.22	⊕ BRG ABUT 2 @ G
5+60.00	295.21	295.18	295.11	295.02	295.32	295.02	295.11	295.17	295.22	
5+60.09	295.21	295.18	295.11	295.02	295.32	295.02	295.11	295.17	295.21	⊕ BRG ABUT 2 @ F
5+63.66	295.15	295.12	295.05	294.96	295.26	294.96	295.05	295.11	295.16	⊕ BRG ABUT 2 @ E
5+67.22	295.08	295.05	294.98	294.89	295.19	294.89	294.98	295.04	295.09	⊕ BRG ABUT 2 @ D
5+67.62	295.07	295.04	294.97	294.89	295.19	294.89	294.97	295.04	295.08	⊕ BRG ABUT 2 @ C
5+67.96	295.06	295.04	294.96	294.88	295.18	294.88	294.96	295.03	295.07	END OF APPROACH SLAB 2 @ I
5+68.50	295.05	295.02	294.95	294.87	295.17	294.87	294.95	295.02	295.06	END OF APPROACH SLAB 2 @ H
5+68.81	295.04	295.02	294.94	294.86	295.16	294.86	294.94	295.01	295.05	⊕ BRG ABUT 2 @ B
5+69.25	295.03	295.01	294.93	294.85	295.15	294.85	294.93	295.00	295.04	⊕ BRG ABUT 2 @ A
5+69.69	295.02	295.00	294.92	294.84	295.14	294.84	294.92	294.99	295.03	END OF APPROACH SLAB 2 @ G
5+70.00	295.02	294.99	294.91	294.83	295.13	294.83	294.91	294.98	295.02	
5+70.09	295.01	294.99	294.91	294.83	295.13	294.83	294.91	294.98	295.02	END OF APPROACH SLAB 2 @ F
5+73.66	294.92	294.89	294.82	294.74	295.04	294.74	294.82	294.89	294.93	END OF APPROACH SLAB 2 @ E
5+77.22	294.82	294.79	294.72	294.63	294.93	294.63	294.72	294.78	294.82	END OF APPROACH SLAB 2 @ D
5+77.62	294.81	294.78	294.70	294.62	294.92	294.62	294.70	294.77	294.81	END OF APPROACH SLAB 2 @ C
5+78.81	294.77	294.74	294.67	294.58	294.88	294.58	294.67	294.73	294.77	END OF APPROACH SLAB 2 @ B
5+79.25	294.75	294.73	294.65	294.57	294.87	294.57	294.65	294.72	294.76	END OF APPROACH SLAB 2 @ A
5+80.00	294.73	294.70	294.63	294.54	294.84	294.54	294.63	294.69	294.74	

LEGEND:

- PPC POLYESTER POLYMER CONCRETE
- ⊕ BEAM NUMBER

NOTES:

- FOR GENERAL NOTES, SEE SHEET 3.
- FOR FRAMING PLAN, SEE SHEET 25.
- FOR SLAB PLAN, SEE SHEET 30.
- FOR DECK ELEVATION OVER CENTERLINE BEAMS, SEE SHEET 35.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

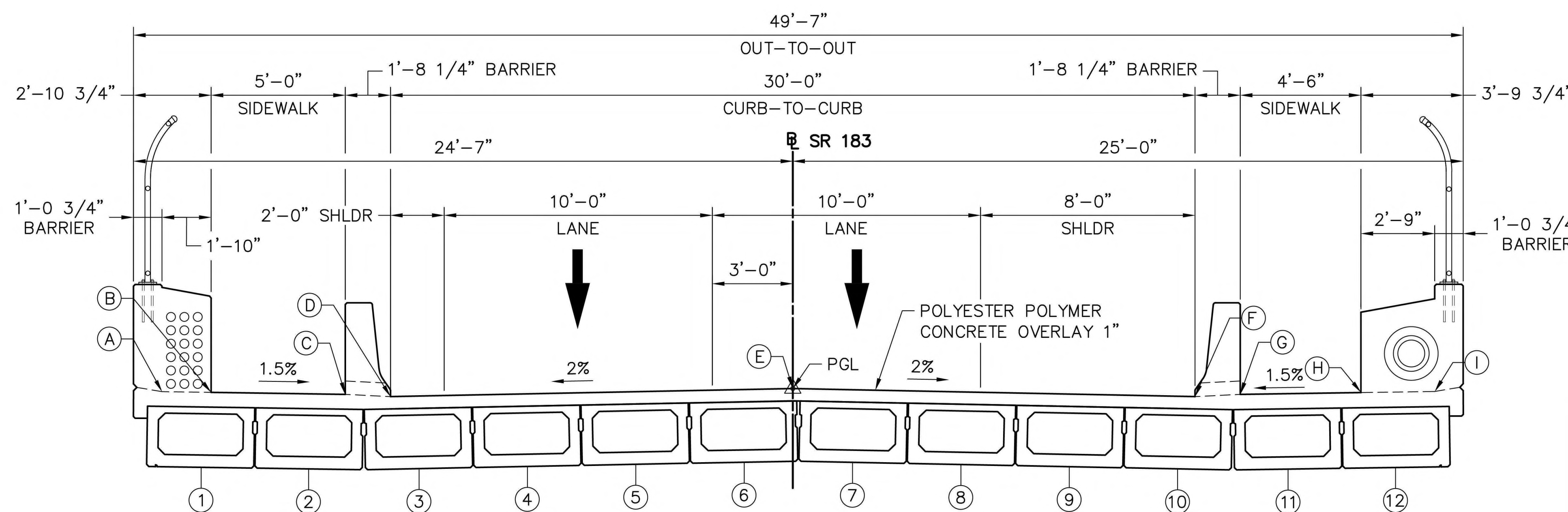
COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 DECK ELEVATIONS @ BREAK-IN-SLOPE



RECOMMENDED 10 / 27 / 2022 SHEET 34 OF 54

S-36195



PROPOSED BRIDGE SECTION

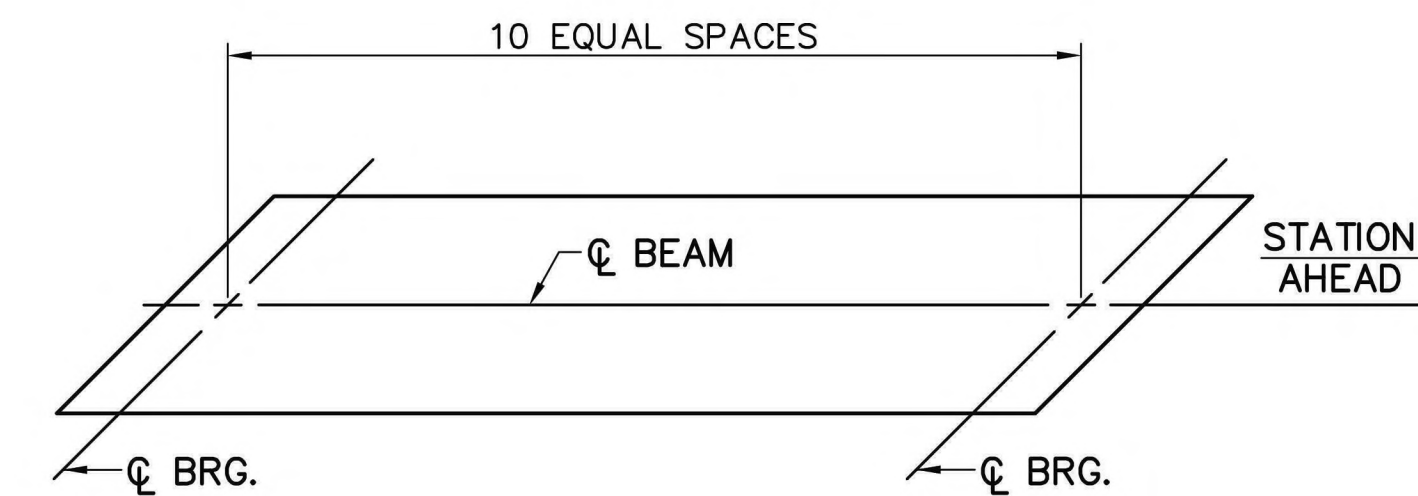


DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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TOP OF DECK ELEVATIONS ALONG CENTERLINE BEAM (FINAL CONDITION, TOP OF 1" PPC OVERLAY)

	BEAM 1		BEAM 2		BEAM 3		BEAM 4		BEAM 5		BEAM 6	
	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
☉ BRG. ABUT. 1	5+02.91	294.46	5+01.95	294.36	5+00.98	294.24	5+00.02	294.28	4+99.06	294.32	4+98.10	294.36
0.1L	5+09.51	294.70	5+08.55	294.61	5+07.58	294.49	5+06.62	294.54	5+05.66	294.58	5+04.70	294.63
0.2L	5+16.11	294.90	5+15.15	294.82	5+14.18	294.71	5+13.22	294.76	5+12.26	294.81	5+11.30	294.86
0.3L	5+22.71	295.06	5+21.75	294.98	5+20.78	294.88	5+19.82	294.94	5+18.86	294.99	5+17.90	295.05
0.4L	5+29.31	295.18	5+28.35	295.11	5+27.38	295.01	5+26.42	295.07	5+25.46	295.14	5+24.50	295.20
0.5L	5+35.91	295.26	5+34.95	295.19	5+33.98	295.10	5+33.02	295.17	5+32.06	295.24	5+31.10	295.31
0.6L	5+42.51	295.29	5+41.55	295.23	5+40.58	295.15	5+39.62	295.22	5+38.66	295.30	5+37.70	295.37
0.7L	5+49.11	295.29	5+48.15	295.23	5+47.18	295.15	5+46.22	295.23	5+45.26	295.32	5+44.30	295.40
0.8L	5+55.71	295.24	5+54.75	295.19	5+53.78	295.12	5+52.82	295.20	5+51.86	295.29	5+50.90	295.38
0.9L	5+62.31	295.15	5+61.35	295.11	5+60.38	295.04	5+59.42	295.13	5+58.46	295.23	5+57.50	295.32
☉ BRG. ABUT 2	5+68.91	295.02	5+67.95	294.98	5+66.98	294.92	5+66.02	295.02	5+65.06	295.12	5+64.10	295.22
	BEAM 7		BEAM 8		BEAM 9		BEAM 10		BEAM 11		BEAM 12	
	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
☉ BRG. ABUT. 1	4+97.12	294.30	4+96.16	294.18	4+95.20	294.05	4+94.24	293.93	4+93.28	293.98	4+92.31	293.99
0.1L	5+03.72	294.58	5+02.76	294.46	5+01.80	294.34	5+00.84	294.22	4+99.88	294.28	4+98.91	294.30
0.2L	5+10.32	294.82	5+09.36	294.71	5+08.40	294.59	5+07.44	294.48	5+06.48	294.54	5+05.51	294.57
0.3L	5+16.92	295.02	5+15.96	294.91	5+15.00	294.80	5+14.04	294.69	5+13.08	294.76	5+12.11	294.79
0.4L	5+23.52	295.17	5+22.56	295.07	5+21.60	294.97	5+20.64	294.87	5+19.68	294.94	5+18.71	294.98
0.5L	5+30.12	295.28	5+29.16	295.19	5+28.20	295.09	5+27.24	295.00	5+26.28	295.08	5+25.31	295.12
0.6L	5+36.72	295.36	5+35.76	295.27	5+34.80	295.18	5+33.84	295.09	5+32.88	295.18	5+31.91	295.22
0.7L	5+43.32	295.39	5+42.36	295.30	5+41.40	295.22	5+40.44	295.14	5+39.48	295.23	5+38.51	295.28
0.8L	5+49.92	295.38	5+48.96	295.30	5+48.00	295.22	5+47.04	295.14	5+46.08	295.24	5+45.11	295.30
0.9L	5+56.52	295.32	5+55.56	295.25	5+54.60	295.18	5+53.64	295.11	5+52.68	295.21	5+51.71	295.28
☉ BRG. ABUT 2	5+63.12	295.23	5+62.16	295.16	5+61.20	295.10	5+60.24	295.03	5+59.28	295.14	5+58.31	295.22



LEGEND:

PPC POLYESTER POLYMER CONCRETE

NOTES:

1. FOR GENERAL NOTES, SEE SHEET 3.
2. FOR FRAMING PLAN, SEE SHEET 25.
3. FOR SLAB PLAN, SEE SHEET 30.
4. FOR BREAK-IN-SLOPE, SEE SHEET 34.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

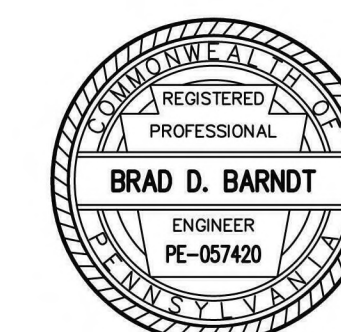
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
DECK ELEVATIONS OVER CENTERLINE BEAMS

RECOMMENDED 10 / 27 / 2022

SHEET 35 OF 54

S-36195



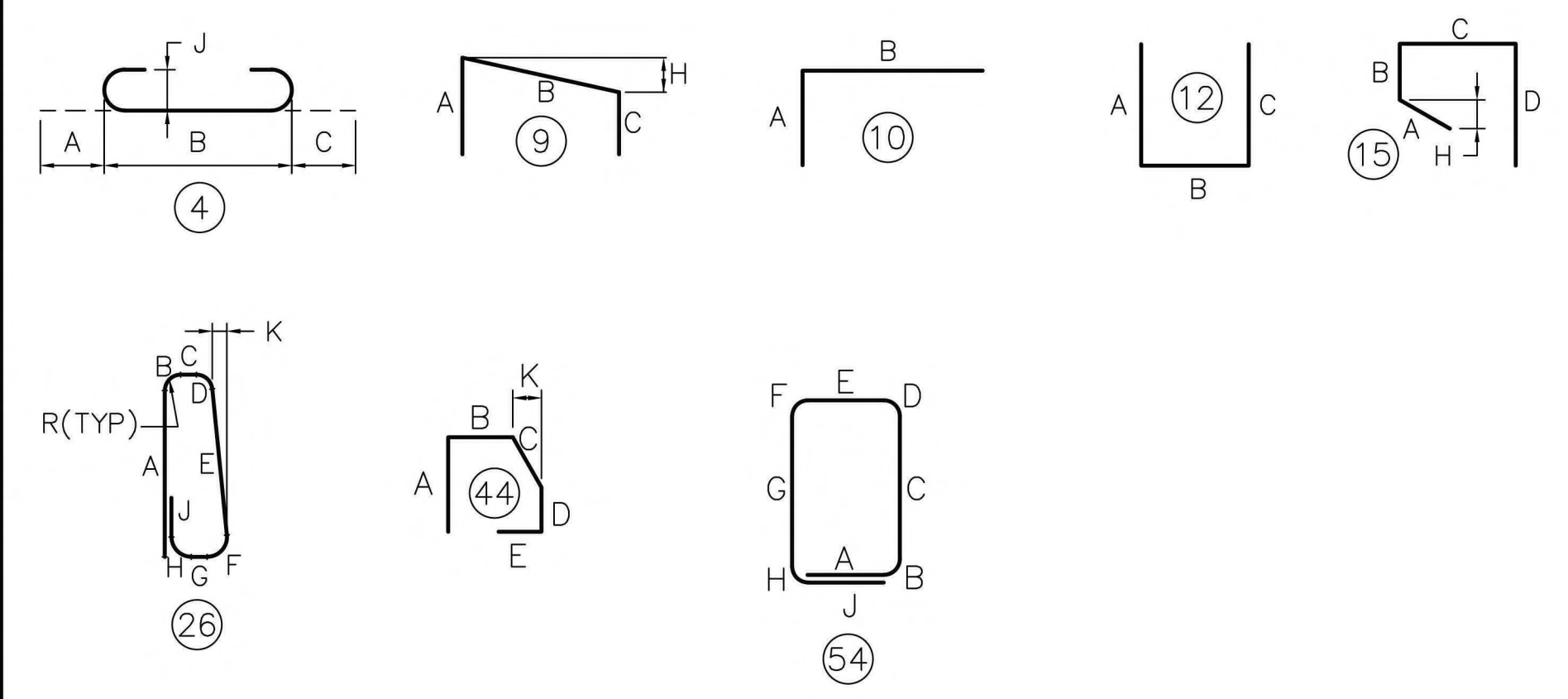
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DWG:	JTP	CHK'D:	BDB

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REINFORCEMENT BAR SCHEDULE

MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
EC401	4	8'-5 1/2"	138	54	3"	4"	3'-1"	4"	3"	4"	3'-1"	4"	5 1/2"			
EC402	4	35'-4"	26	STR												
EC403	4	7'-10 1/2"	69	44	2'-1"	8"	1'-10 1/2"	3'-3"	0"					1'-10"		
EC404	4	8'-2 3/4"	69	9	2'-8"	3'-5 3/4"	2'-1"					8 1/2"				
EC405	4	8'-0 1/8"	176	26	2'-9 1/2"	4"	3 3/8"	3 5/8"	2'-7 3/4"	4 1/8"	6 3/4"	4"	5"	3 3/8"	2"	
EC501	5	34'-7 1/2"	48	STR												
EC601	6	35'-0"	32	STR												
ES401	4	4'-2 1/2"	138	10	2'-6 1/2"	1'-8"										
ES402	4	1'-8"	94	12	8"	4"	8"									
ES403	4	34'-10"	18	STR												
ES404	4	33'-8"	86	STR												
ES405	4	4'-3 1/2"	100	15	1'-3"	2 1/2"	11"	1'-11"				10 1/2"				
ES501	5	51'-9 1/2"	94	4	7"	50'-7 1/2"	7"									
ES601	6	50'-7 1/2"	8	STR												

W:\01\19A\0119A-04-SR-0183\DWG\CD2013\bridge\DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - SUPER BAR SCHEDULE - 8/28/2022 3:02 PM



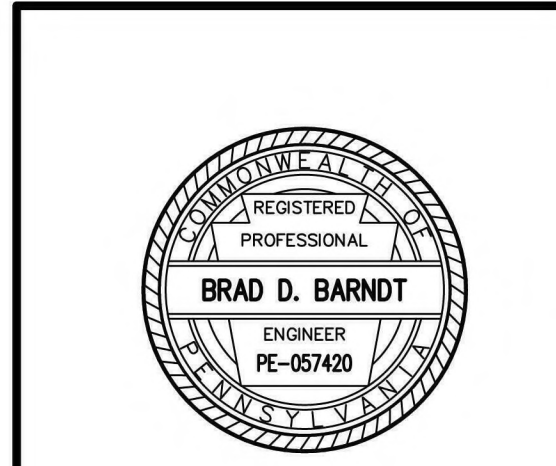
- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID:06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
SUPERSTRUCTURE BAR SCHEDULE



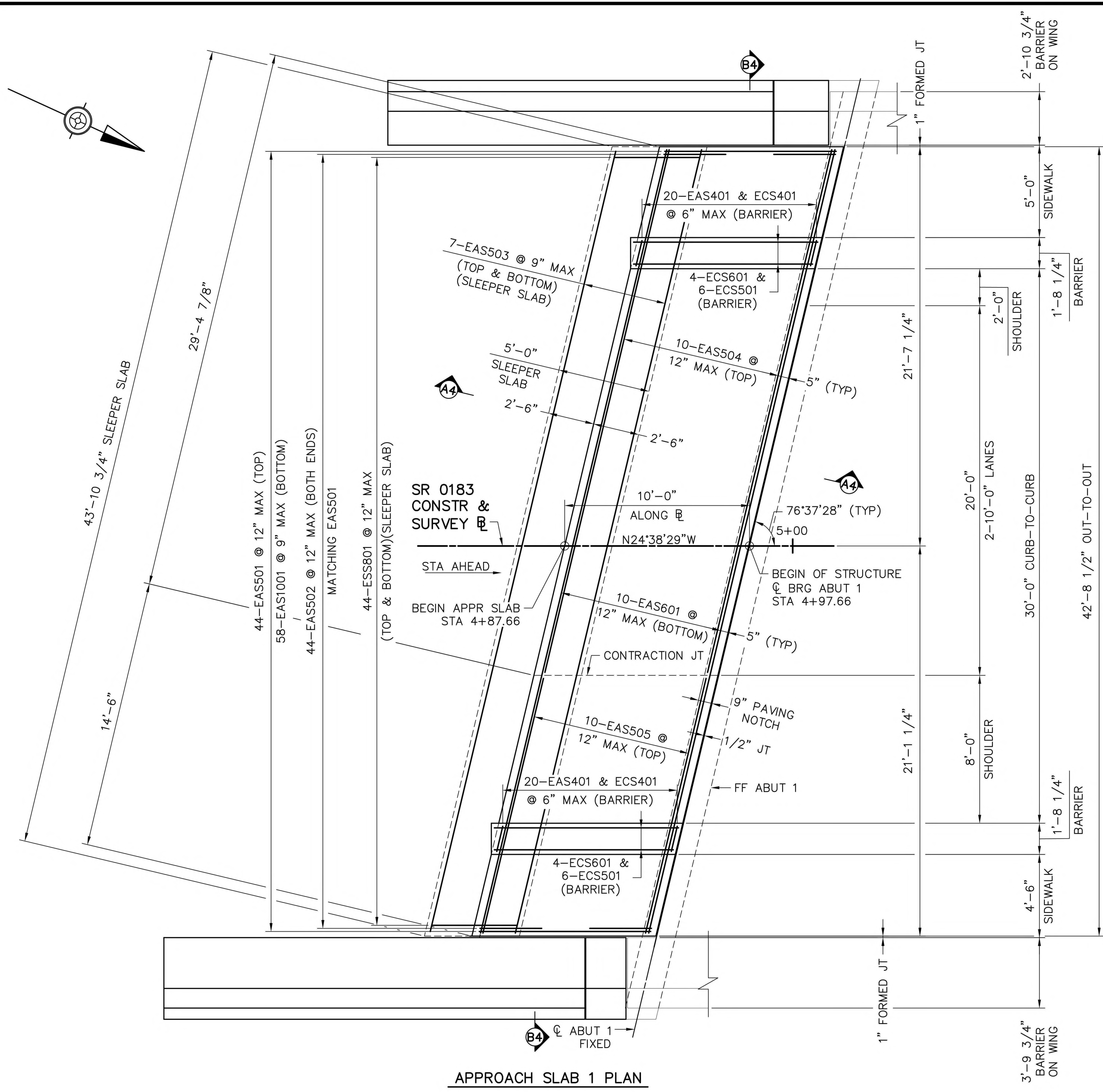
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DWG: JTP	CHK'D: BDB

RECOMMENDED 10 / 27 / 2022

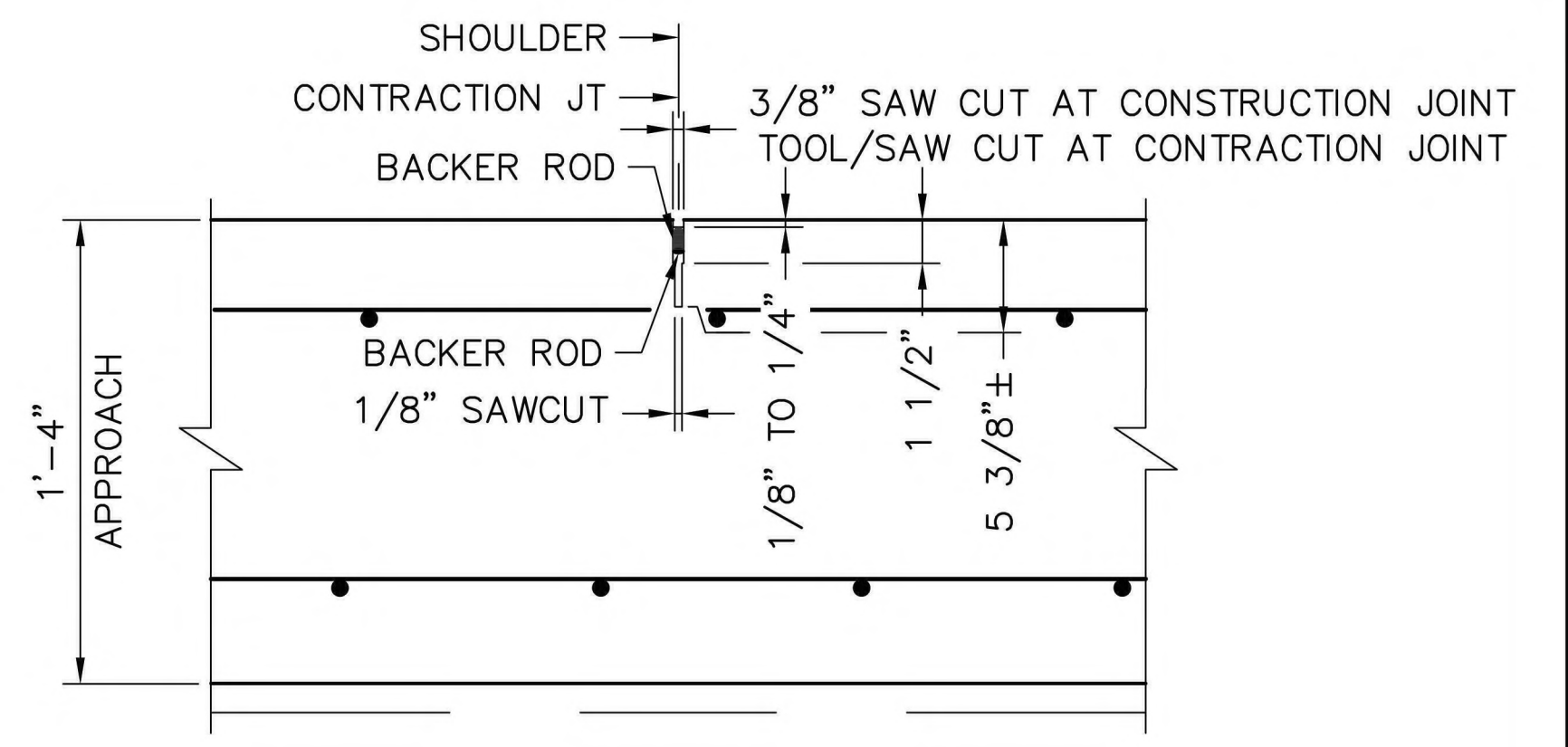
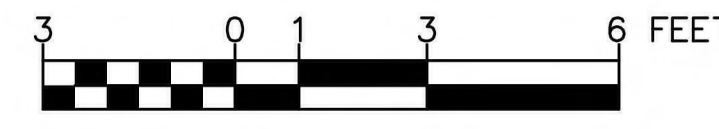
SHEET 36 OF 54

S-36195

W:\01\19A\0119A-04-SR_0183\DWG\CD\2022\Bridg\DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - APPROACH SLAB PLAN 1 - 8/29/2022 3:02 PM



APPROACH SLAB 1 PLAN



CONTRACTION JOINT SEALING DETAILS
(NOT TO SCALE)

JOINT NOTES:

1. TOP REINFORCEMENT NOT CONTINUOUS THRU JOINT. BOTTOM REINFORCEMENT CONTINUOUS THRU JOINT.
2. FOR JOINT SEALING MATERIAL, REFER TO PUB 408 SECTION 501.2 AND 705.4 (a), (b) OR (d).

LEGEND:

FF FRONT FACE

NOTES:

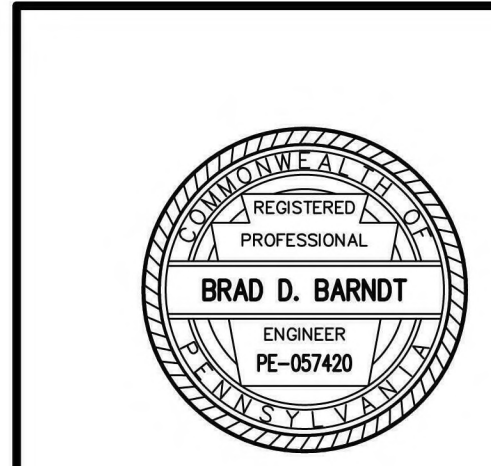
1. FOR GENERAL NOTES, SEE SHEET 3.
2. FOR SECTION A4-A4 AND FORMING DETAILS, SEE SHEET 38.
3. FOR SECTION B4-B4, SEE SHEET 39.
4. FOR APPROACH SLAB 1 BAR SCHEDULE, SEE SHEET 40.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 1 PLAN

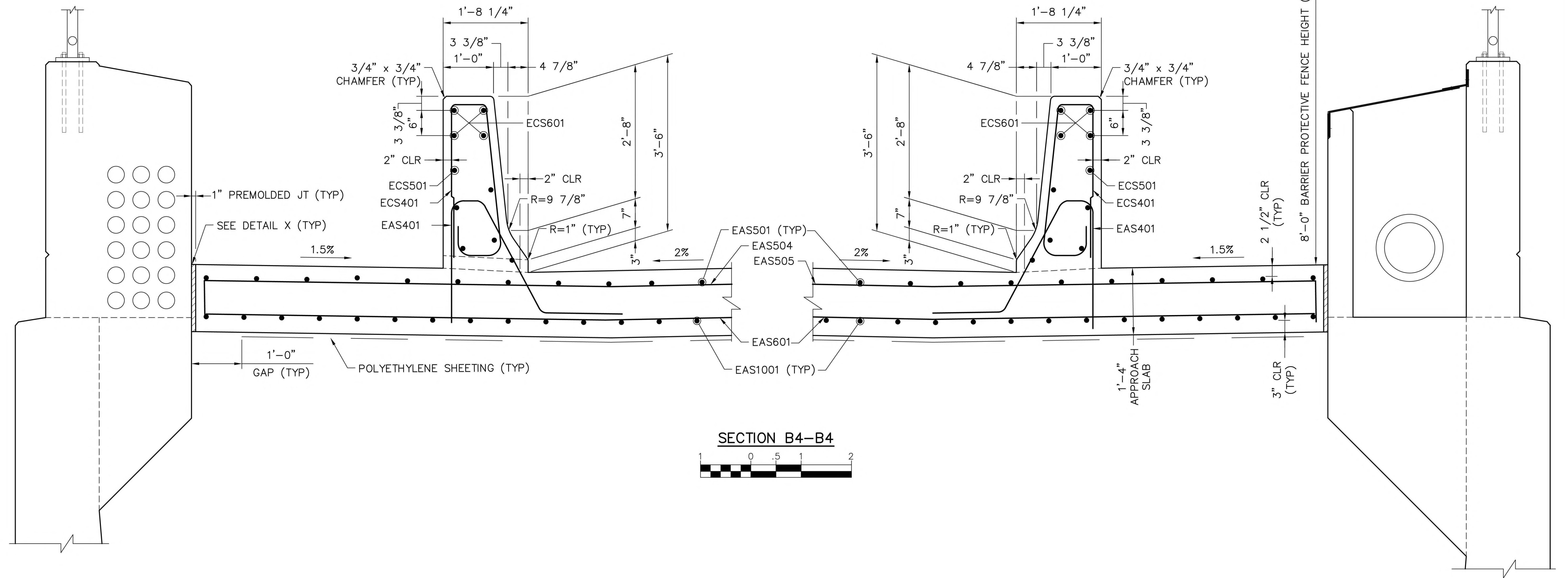


RECOMMENDED 10 / 27 / 2022

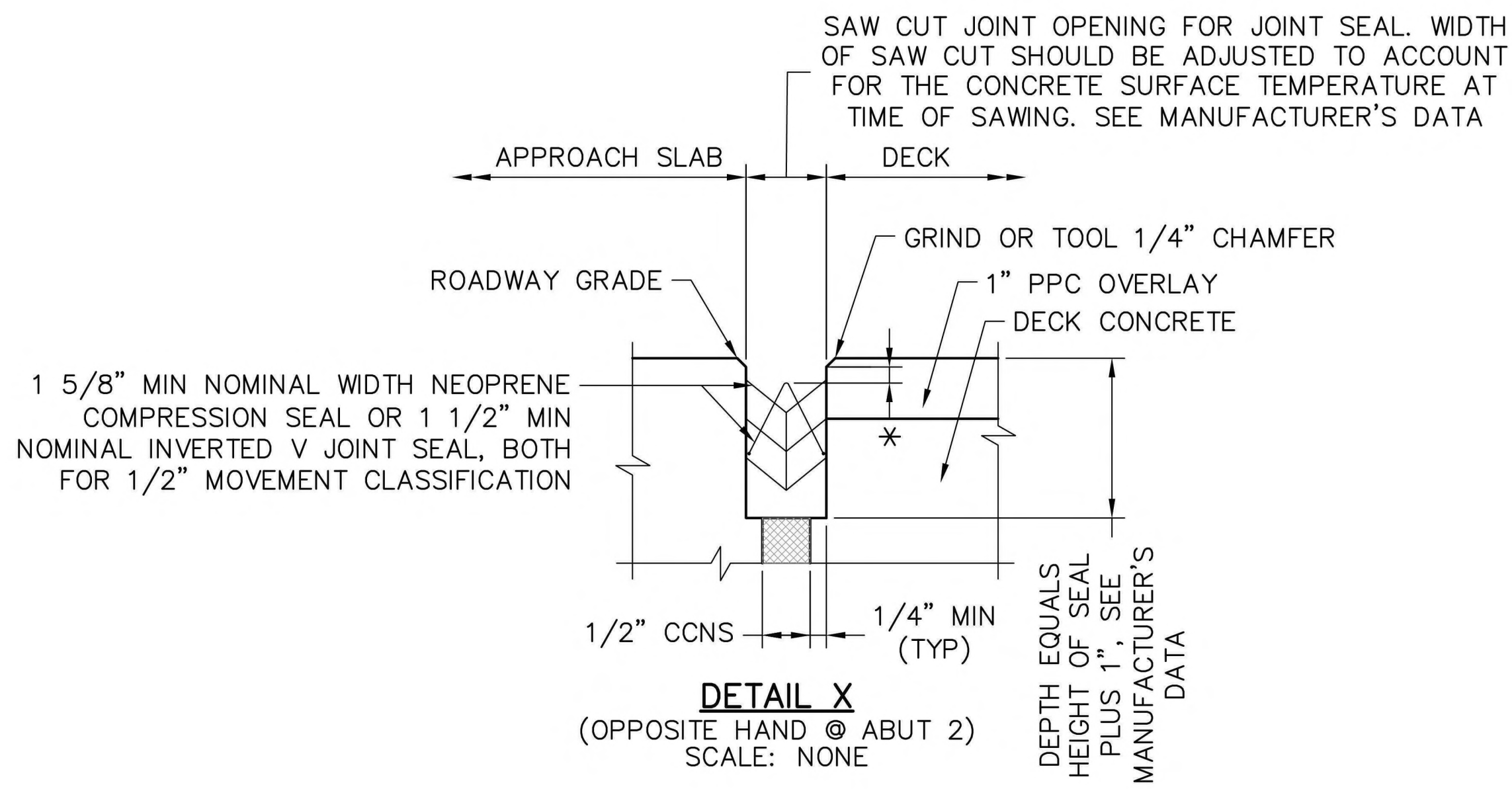
SHEET 37 OF 54

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195



SECTION B4-B4



- LEGEND:**
 * 1/4" TO 3/8" FOR NEOPRENE COMPRESSION SEAL
 3/8" TO 1/2" FOR INVERTED V JOINT SEAL
- NOTES:**
1. FOR APPROACH SLAB 1 PLAN, SEE SHEET 37.
 2. FOR ADDITIONAL APPROACH SLAB DETAILS, SEE SHEET 38.
 3. FOR APPROACH SLAB 1 BAR SCHEDULE, SEE SHEET 40.



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 1 SECTION AND DETAILS-2

RECOMMENDED 10 / 27 / 2022 SHEET 39 OF 54

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

S-36195

W:\01\19A\0119A-04-SR_0183\DWG\CD20213\bridge_DWG\0119A-04-SR0183-05B-RR-FINAL.dwg - bpr 1 details (3) - 8/29/2022 3:02 PM

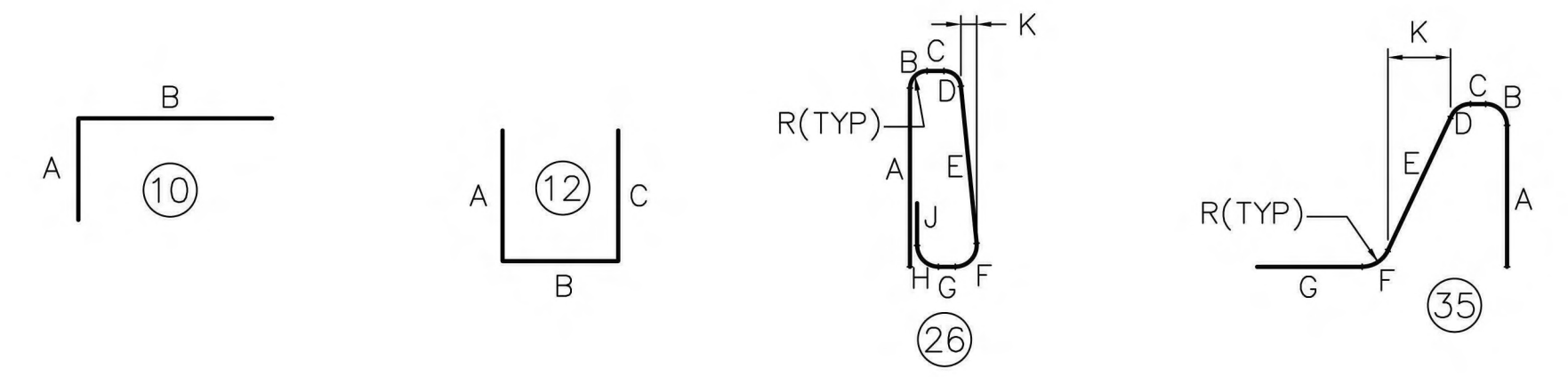
REINFORCEMENT BAR SCHEDULE

MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
ECS401	4	8'-0 1/8"	40	26	2'-9 1/2"	4"	3 3/8"	3 5/8"	2'-7 3/4"	4 1/8"	6 3/4"	4"	5"	3 3/8"	2"	
ECS501	5	9'-7"	12	STR												
ECS601	6	9'-7"	8	STR												
EAS401	4	7'-7 3/4"	40	35	2'-5"	4"	4"	2 3/4"	2'-7 1/4"	2 3/4"	1'-6"			1'-1 3/4"	2"	
EAS501	5	9'-5"	44	STR												
EAS502	5	7'-6 1/2"	88	12	3'-4"	10 1/2"	3'-4"									
EAS503	5	43'-4"	14	STR												
EAS504	5	29'-10"	10	10	10"	29'-0"										
EAS505	5	15'-0"	10	10	10"	14'-2"										
EAS601	6	43'-6"	10	STR												
EAS801	8	4'-7 1/2"	88	STR												
EAS1001	10	9'-5 1/2"	58	STR												

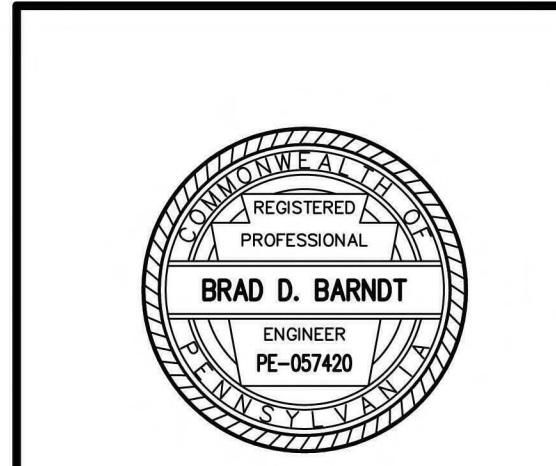
W:\01\19A\0119A-04-SR-0183\DWG\CD20213.dwg - APRR 1 RENF - 8/29/2022 3:02 PM

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.



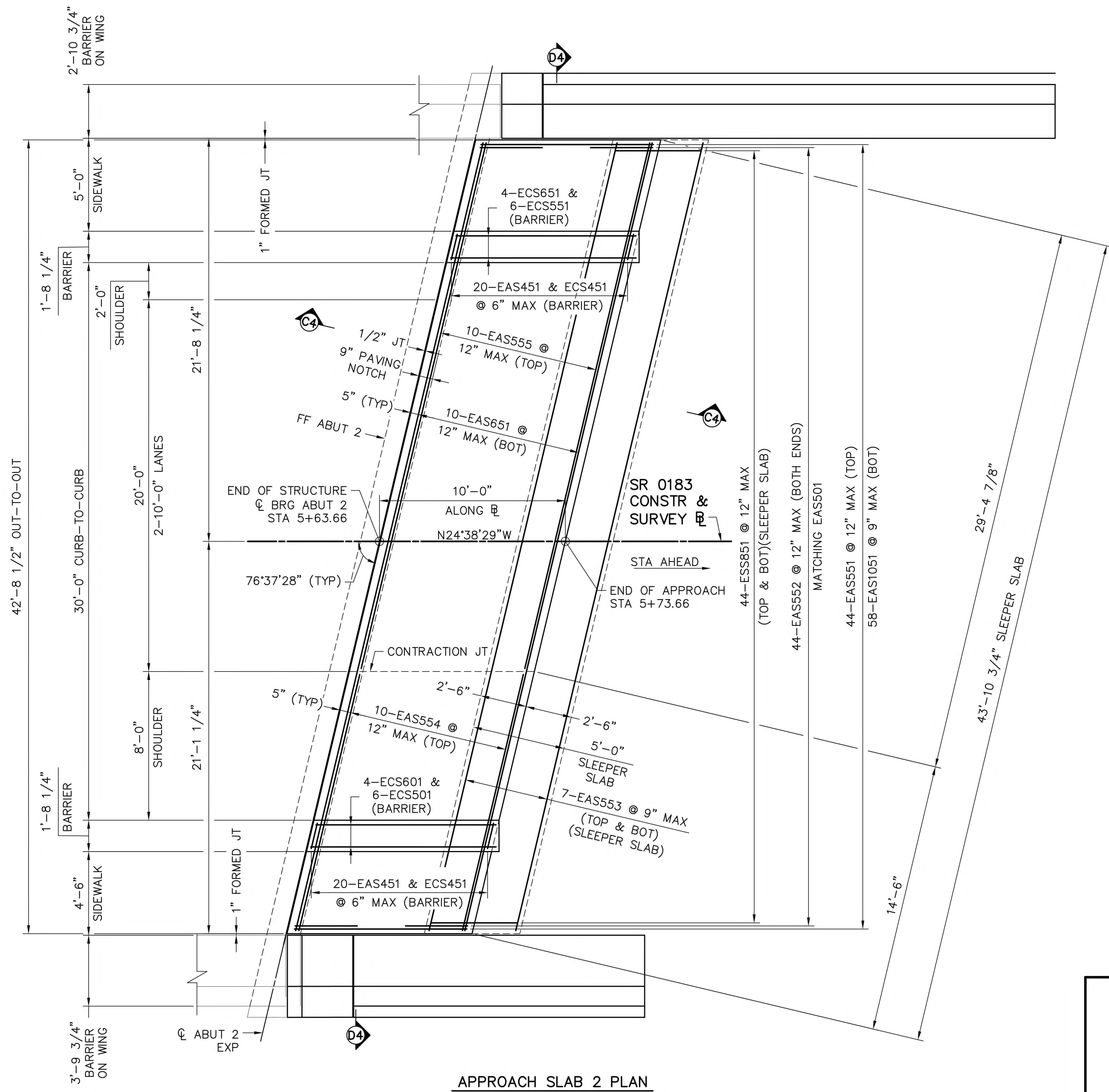
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 1 BAR SCHEDULE

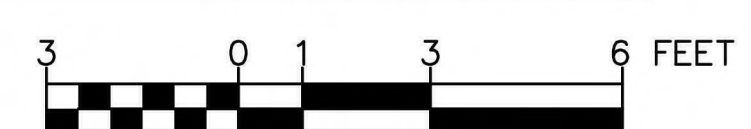
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DWG: JTP	CHK'D: BDB

RECOMMENDED 10 / 27 / 2022	SHEET 40 OF 54
S-36195	

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APPROACH SLAB 2 PLAN



LEGEND:
FF FRONT FACE

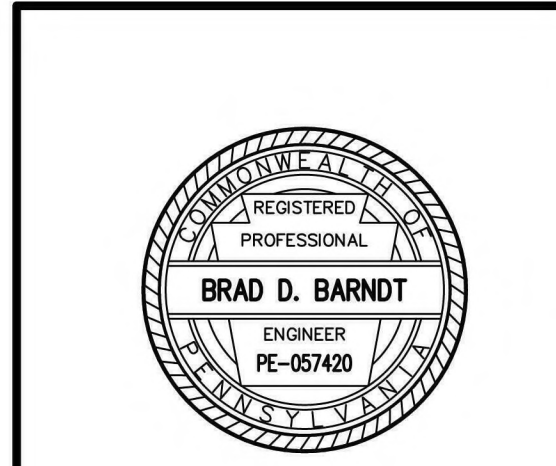
- NOTES:**
- FOR CONTRACTION JOINT DETAILS, SEE SHEET 37.
 - FOR JOINT FORMING DETAIL, SEE SHEET 38.
 - FOR SECTION C4-C4 AND B4-B4, SEE SHEET 42.
 - FOR APPROACH SLAB 2 BAR SCHEDULE, SEE SHEET 43.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY:69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 2 PLAN

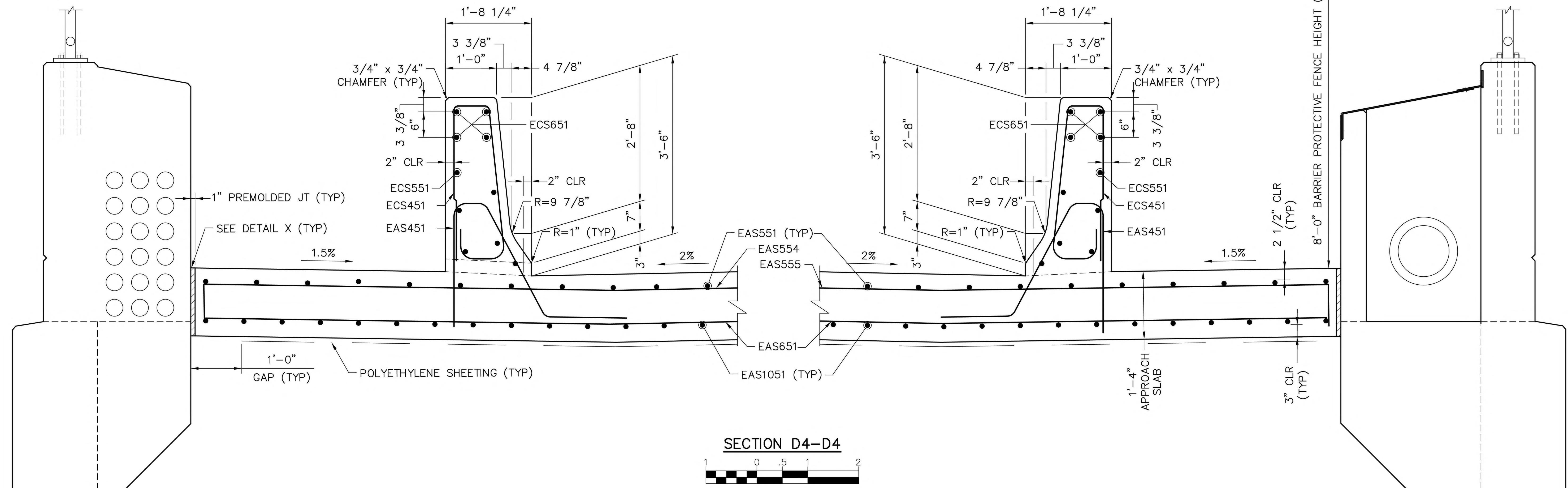


DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

RECOMMENDED 10/27/2022 SHEET 41 OF 54

S-36195

W:\01\194\01194-04-SR-0183\DWG\3\2022\1\bridge\DWG\01194-04-SR0183-05B-FR-FINAL.dwg - APRR 2 DETAILS - 8/25/2022 3:02 PM

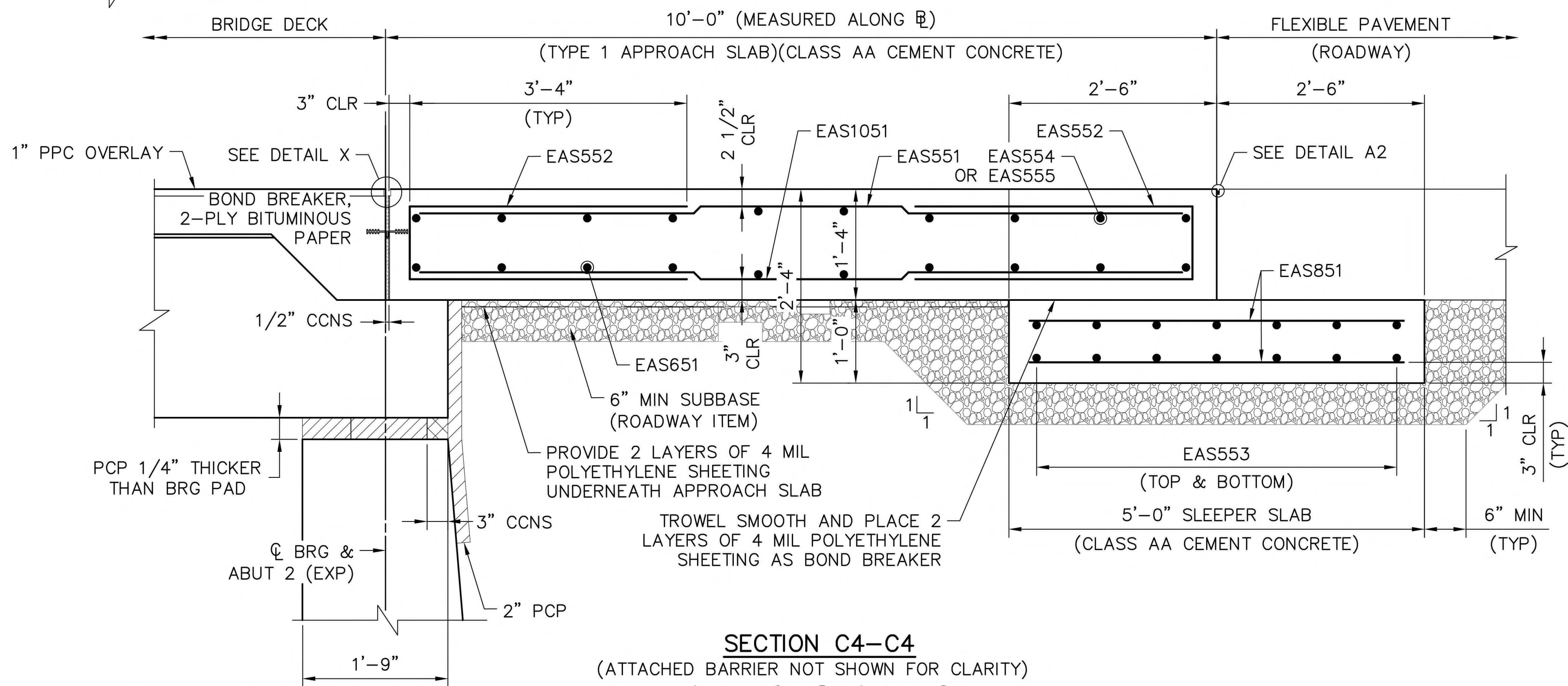


LEGEND:

- FF FRONT FACE
- CCNS CLOSED CELL NEOPRENE SPONGE
- PCP PREFORMED CELLULAR POLYSTYRENE

NOTES:

1. FOR DETAIL A2, SEE SHEET 38.
2. FOR DETAIL X, SEE SHEET 39.
3. FOR APPROACH SLAB 2 PLAN & SECTION LOCATION, SEE SHEET 41.
4. FOR APPROACH SLAB 2 BAR SCHEDULE, SEE SHEET 43.

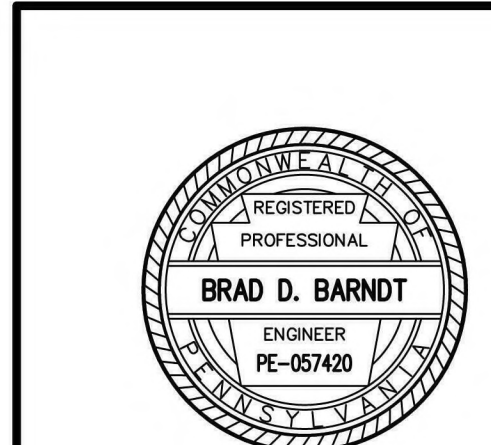


Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 2 SECTION AND DETAILS



RECOMMENDED 10/27/2022 SHEET 42 OF 54

DES: BDT	CHK'D: XXX
DWG: JTP	CHK'D: XXX

S-36195

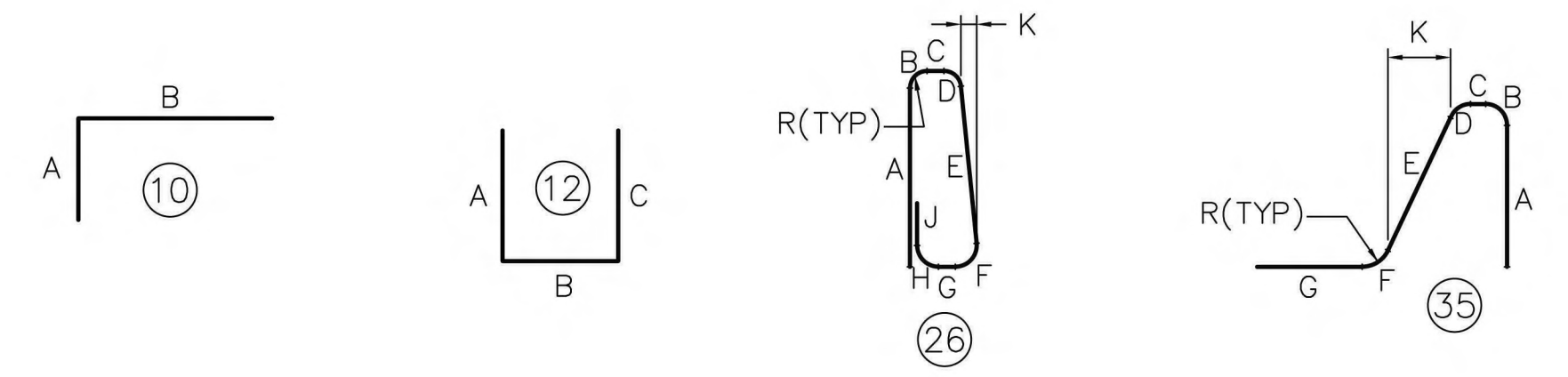
REINFORCEMENT BAR SCHEDULE

MARK	SIZE	LENGTH	QTY	TYPE	A	B	C	D	E	F	G	H	J	K	R	REMARKS
ECS451	4	8'-0 1/8"	40	26	2'-9 1/2"	4"	3 3/8"	3 5/8"	2'-7 3/4"	4 1/8"	6 3/4"	4"	5"	3 3/8"	2"	
ECS551	5	9'-7"	12	STR												
ECS651	6	9'-7"	8	STR												
EAS451	4	7'-7 3/4"	40	35	2'-5"	4"	4"	2 3/4"	2'-7 1/4"	2 3/4"	1'-6"			1'-1 3/4"	2"	
EAS551	5	9'-5"	44	STR												
EAS552	5	7'-6 1/2"	88	12	3'-4"	10 1/2"	3'-4"									
EAS553	5	43'-4"	14	STR												
EAS554	5	29'-10"	10	10	10"	29'-0"										
EAS555	5	15'-0"	10	10	10"	14'-2"										
EAS651	6	43'-6"	10	STR												
EAS851	8	4'-7 1/2"	88	STR												
EAS1051	10	9'-5 1/2"	58	STR												

W:\01\19A\0119A-04-SR-0183\DWG\CD2022\bridge\DWG\0119A-04-SR0183-05B-FR-FINAL.dwg - APR 2 REINF - 8/29/2022 3:02 PM

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241



- E PREFIX INDICATES EPOXY COATED.
- "J" DIMENSIONS ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS ARE TO BE USED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 135° AND 180° HOOKS, AND "R" WHICH IS SHOWN TO THE INSIDE OF THE BAR.
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- FIGURES IN CIRCLES DENOTE TYPE.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

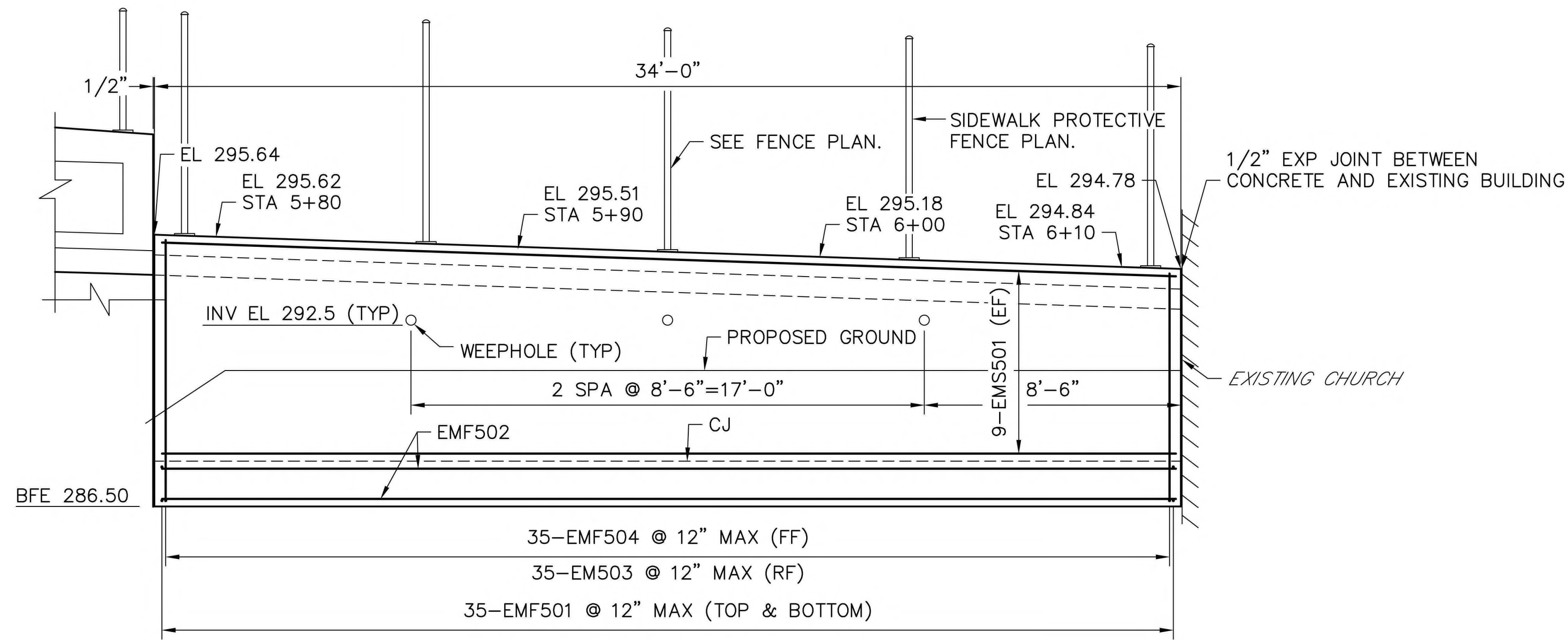
BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
APPROACH SLAB 2 BAR SCHEDULE

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

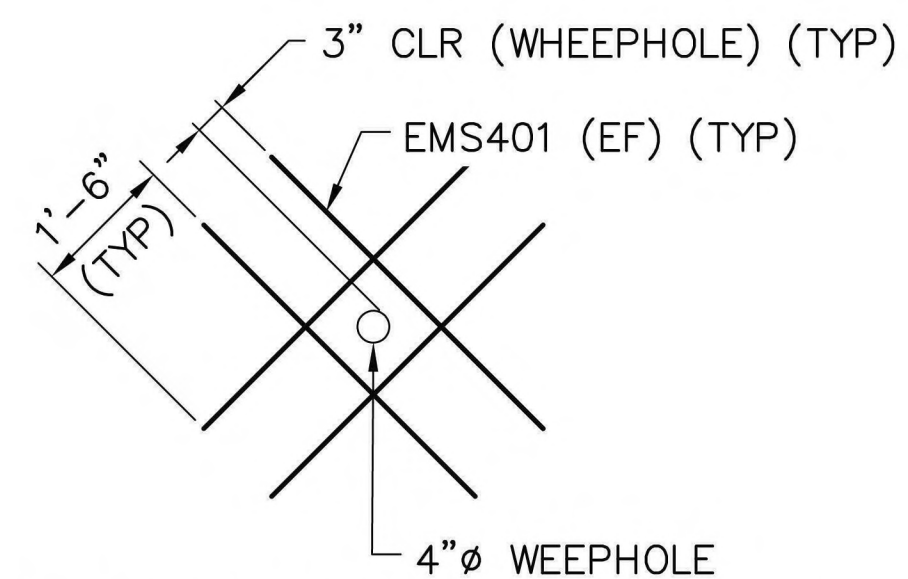
RECOMMENDED 10 / 27 / 2022

SHEET 43 OF 54

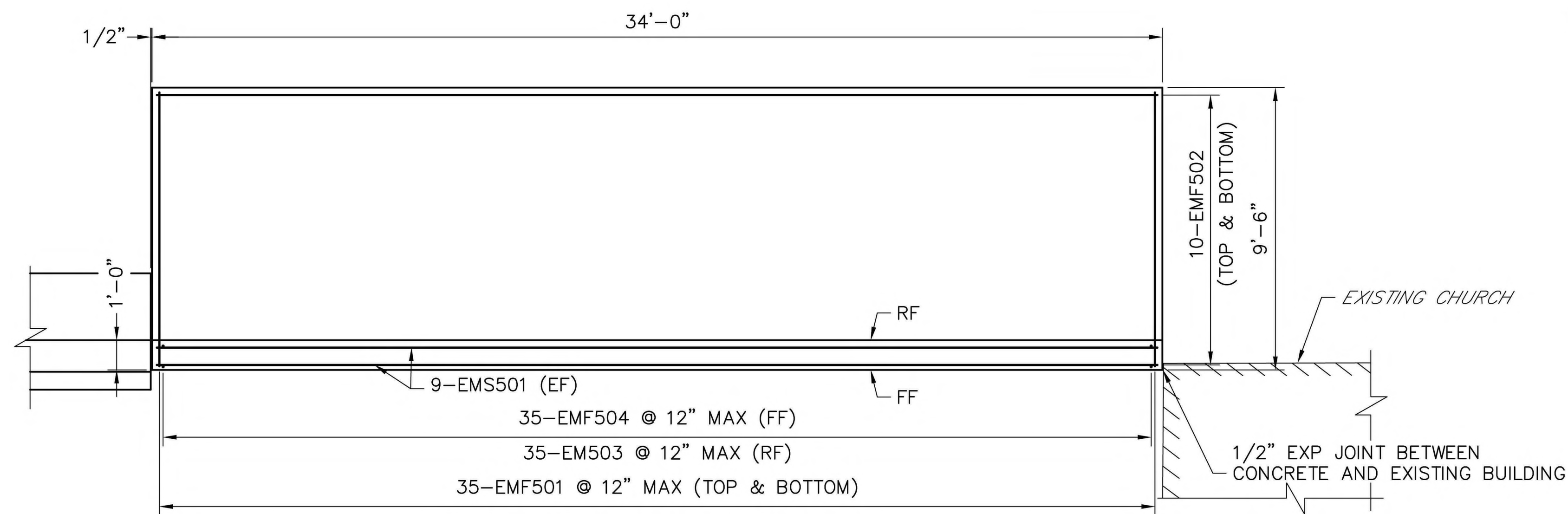
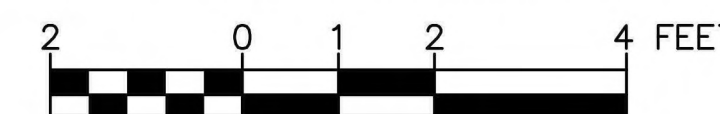
S-36195



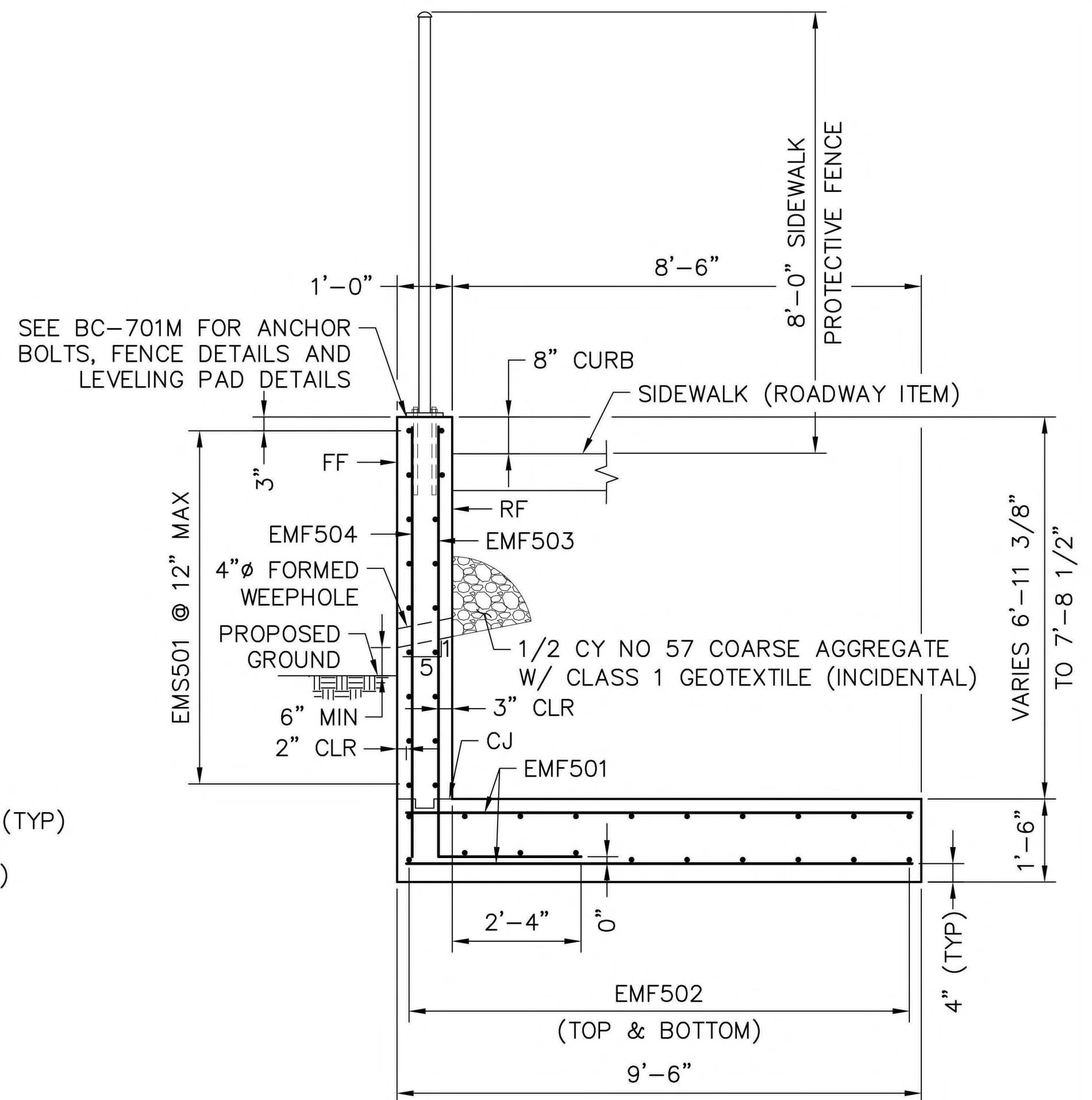
RETAINING WALL ELEVATION



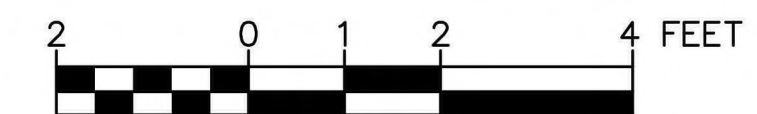
WEEPHOLE REINFORCEMENT DETAIL



RETAINING WALL PLAN



TYPICAL SECTION



LEGEND:

- FF FRONT FACE
- RF REAR FACE
- EF EACH FACE
- CJ CONSTRUCTION JOINT

NOTES:

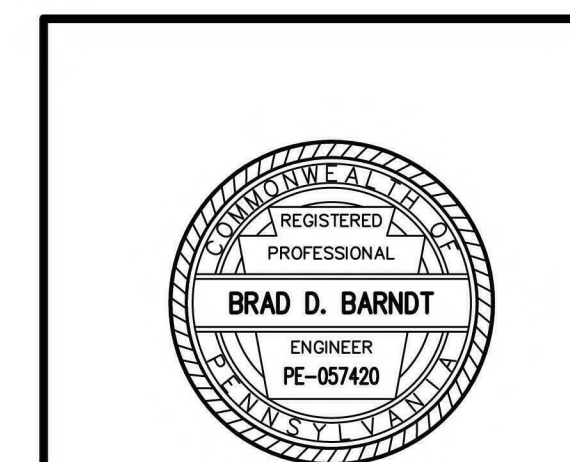
1. FOR GENERAL PLAN, SEE SHEET 1.
2. FOR GENERAL NOTES, SEE SHEET 3.
3. FOR FENCE PLAN, SEE SHEET 33.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
RETAINING WALL

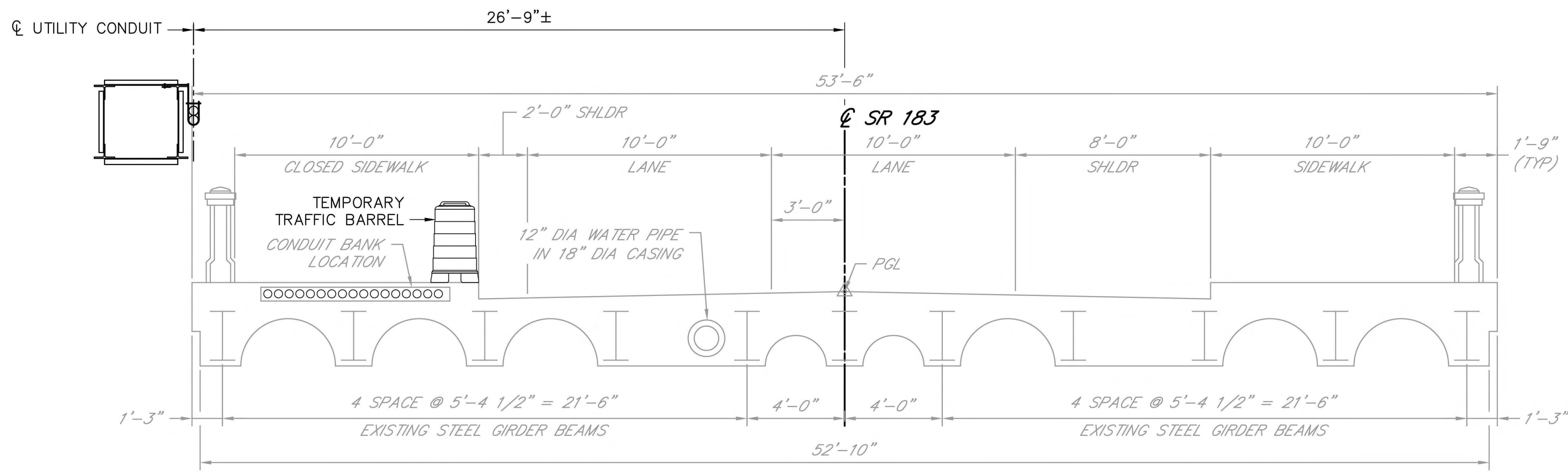


RECOMMENDED 10/27/2022 SHEET 44 OF 54

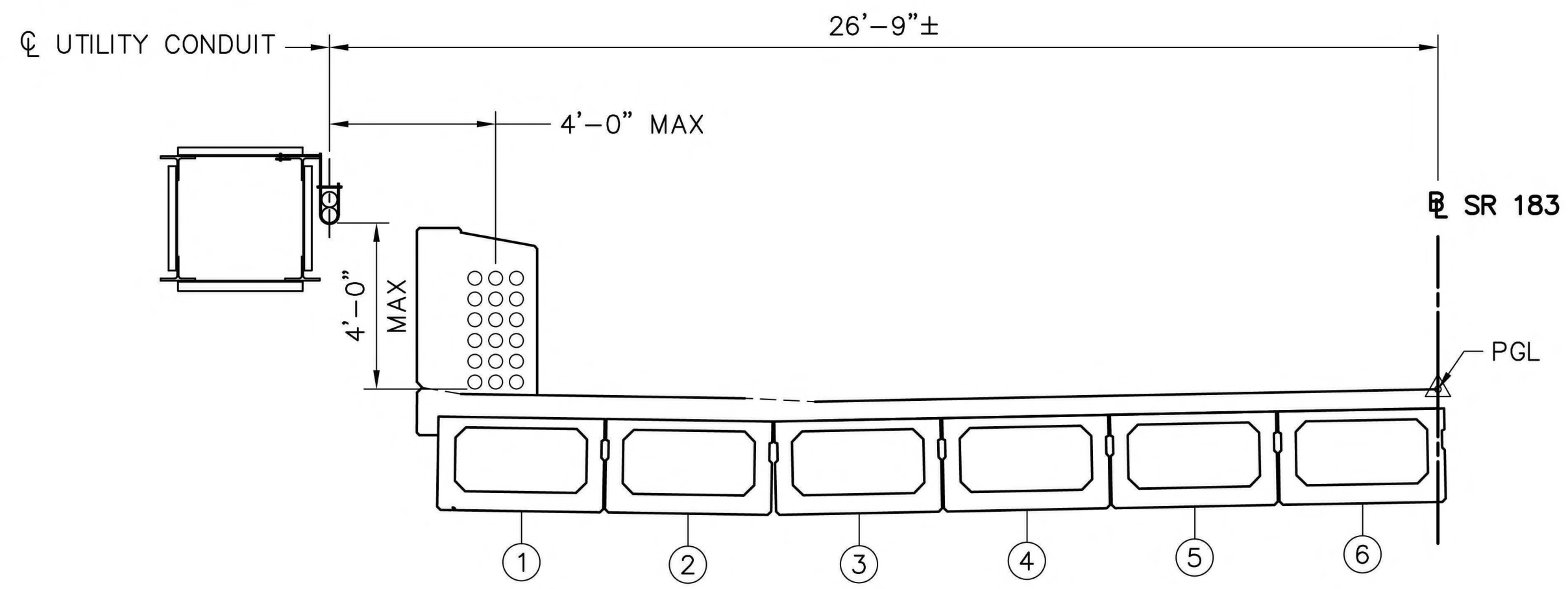
S-36195

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DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB



EXISTING TYPICAL SECTION



TEMPORARY UTILITY SUPPORT DETAIL

LEGEND:
 ⊗ BEAM NUMBER

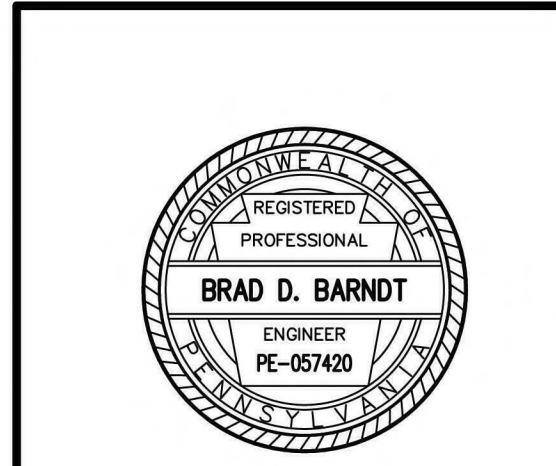
- NOTES:**
1. WORK THIS PLAN WITH VERIZON UTILITY RELOCATION PLANS AND DETAILS, SEE ROADWAY DRAWINGS.
 2. UTILITY BRIDGE TO BE INSTALLED BY VERIZON.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

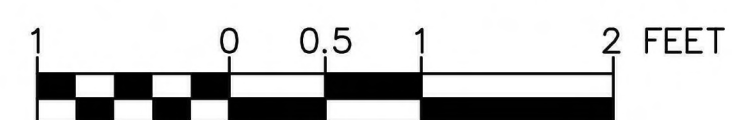
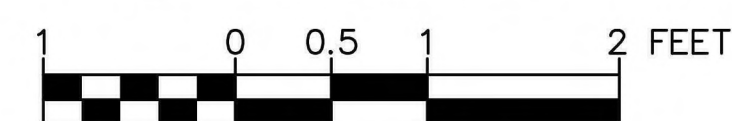
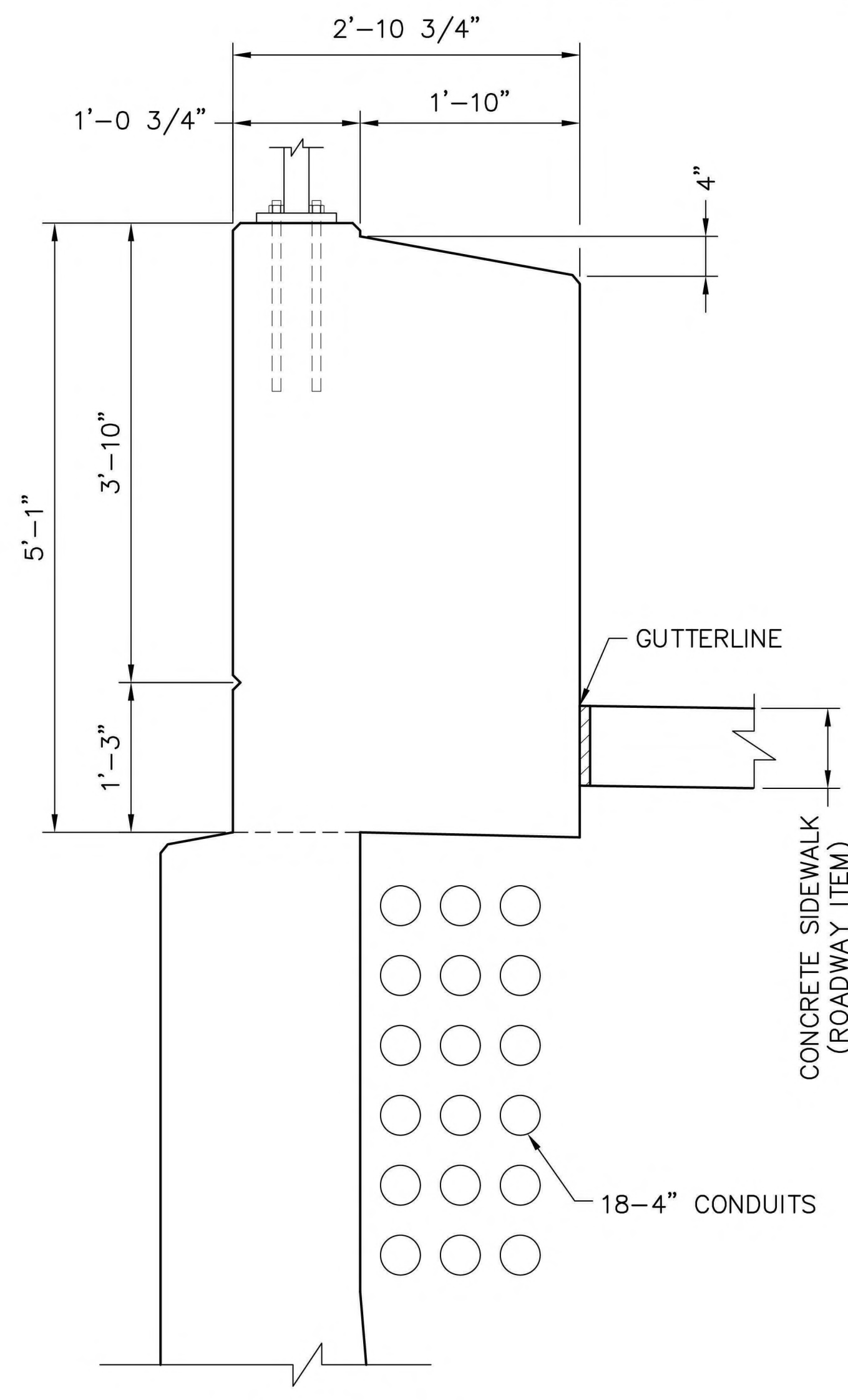
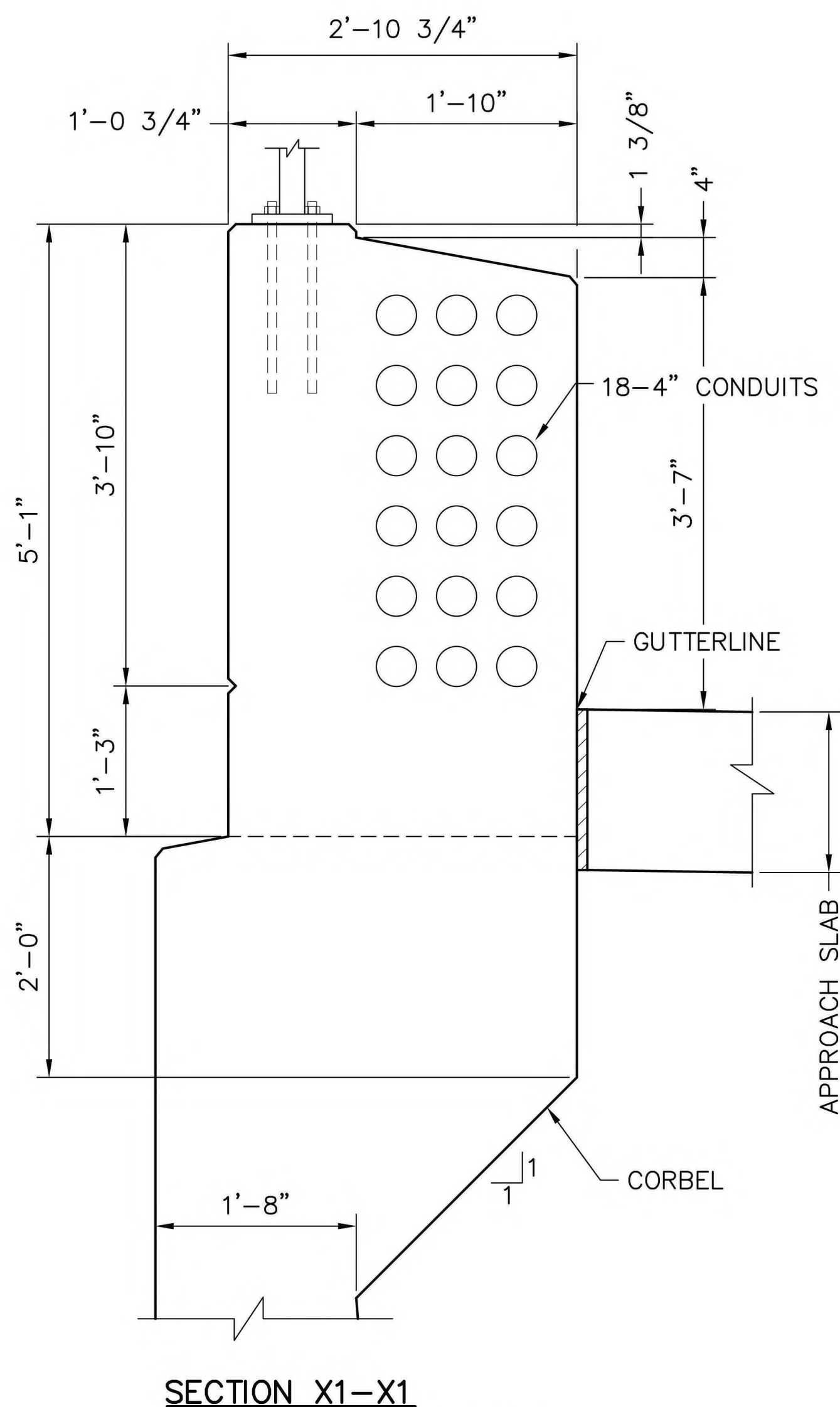
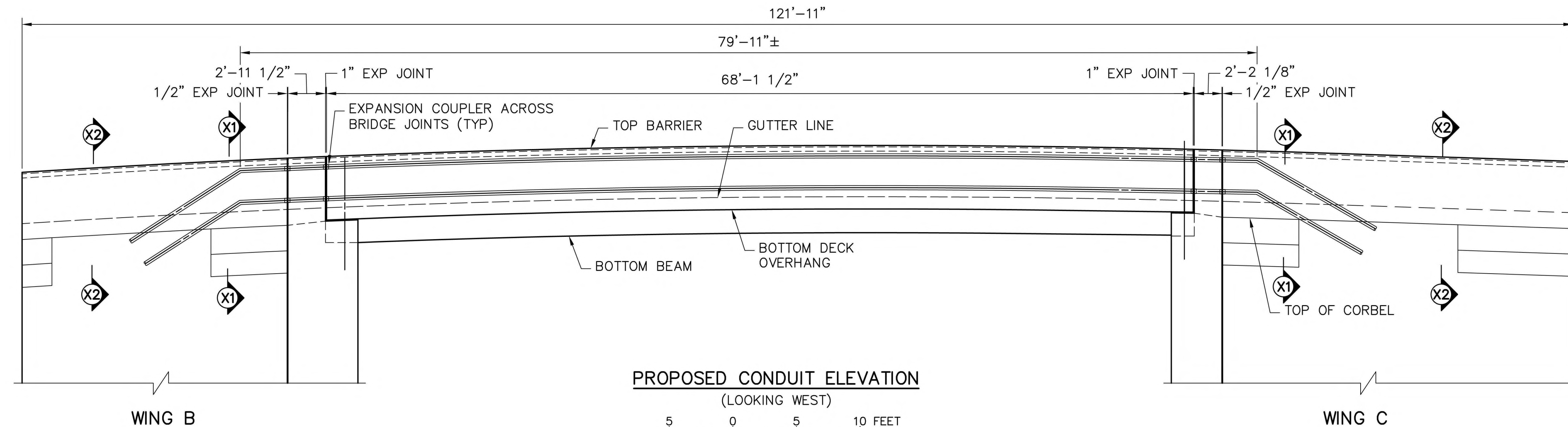
BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
VERIZON TEMPORARY UTILITY SUPPORT



RECOMMENDED 10 / 27 / 2022 SHEET 46 OF 54

DES: TML	CHK'D: BDB
DWG: JTP	CHK'D: BDB

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NOTES:

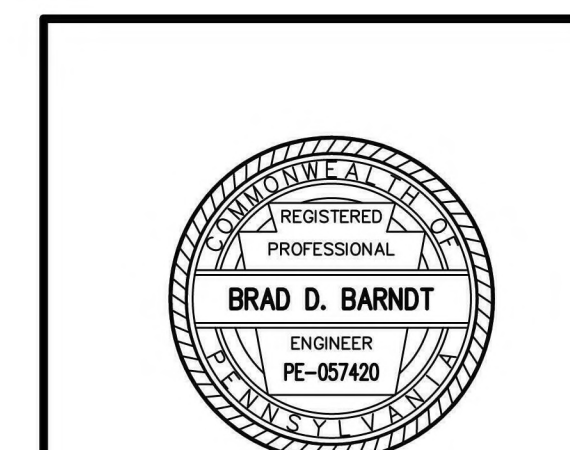
1. WORK THIS PLAN WITH VERIZON UTILITY RELOCATION PLANS AND DETAILS, SEE ROADWAY DRAWINGS.
2. UTILITY BRIDGE TO BE INSTALLED BY VERIZON.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
VERIZON UTILITIES ELEVATION & DETAILS



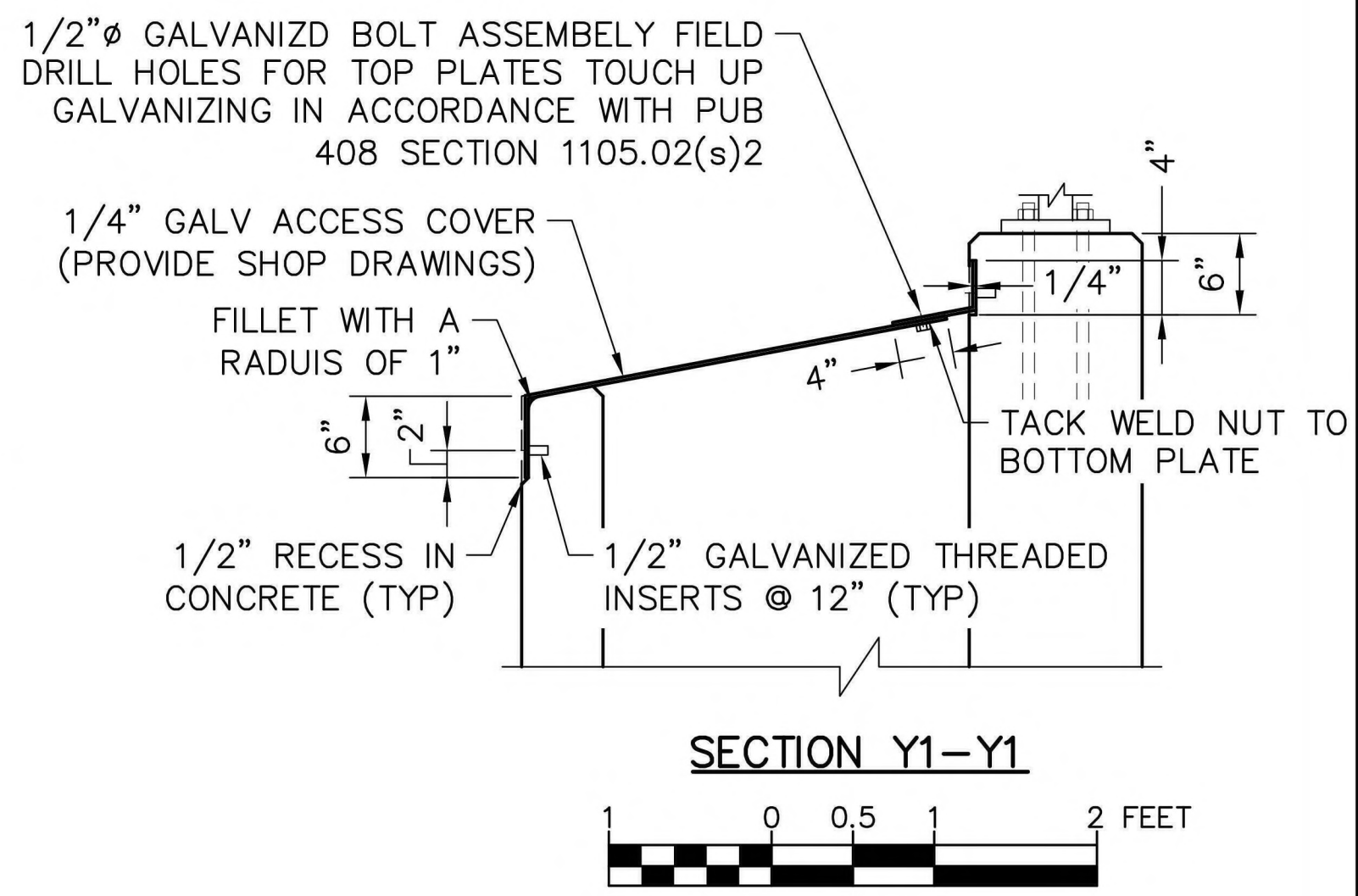
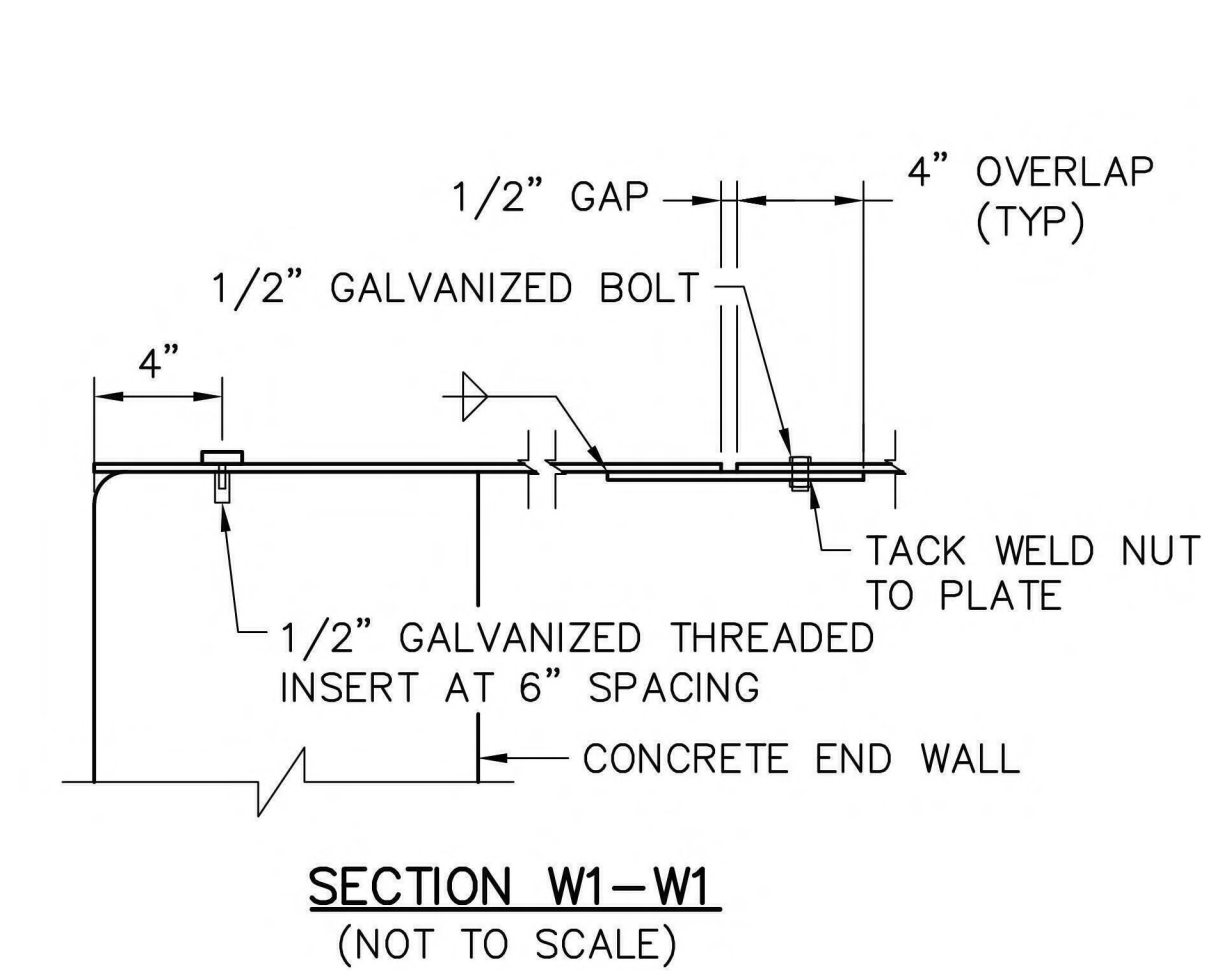
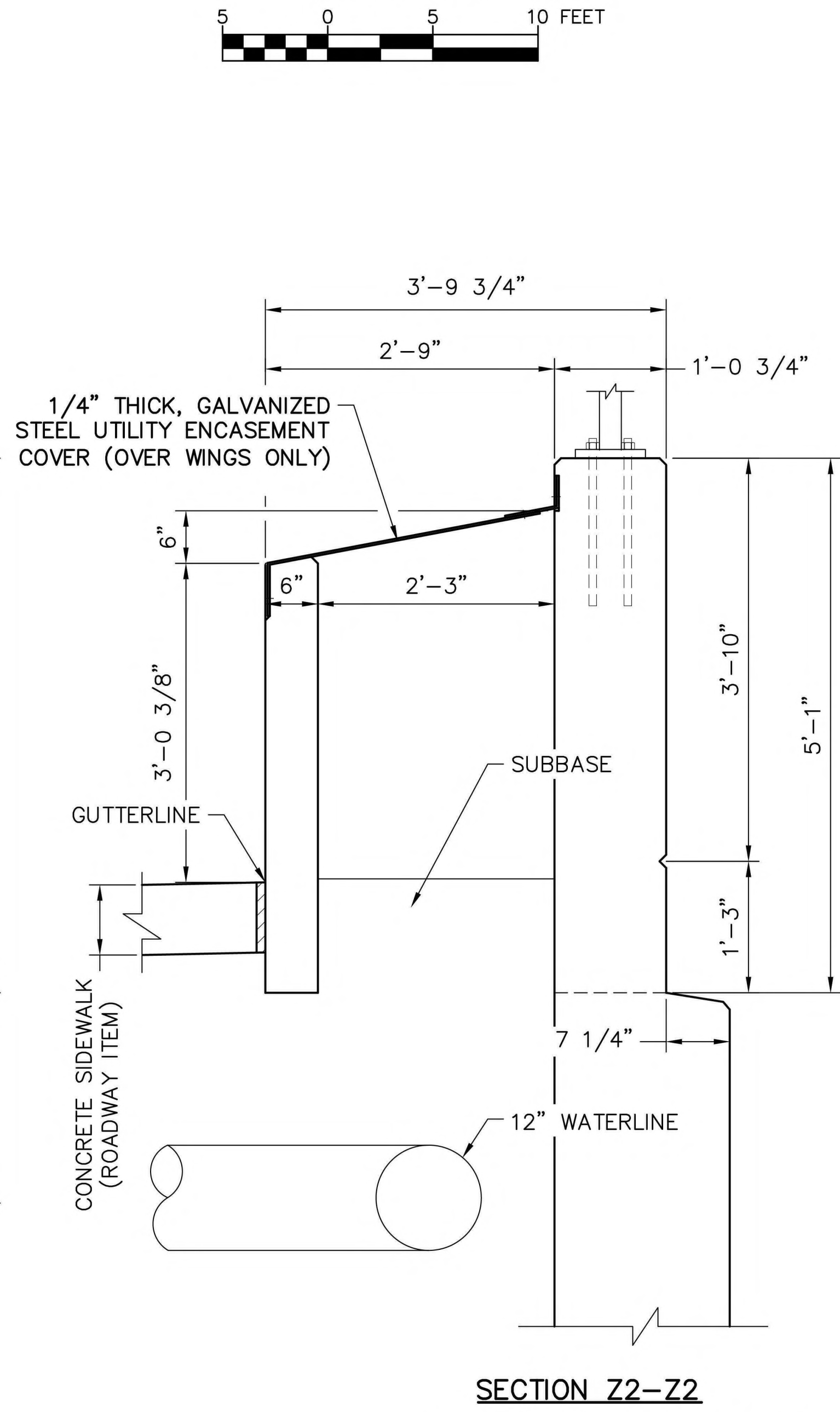
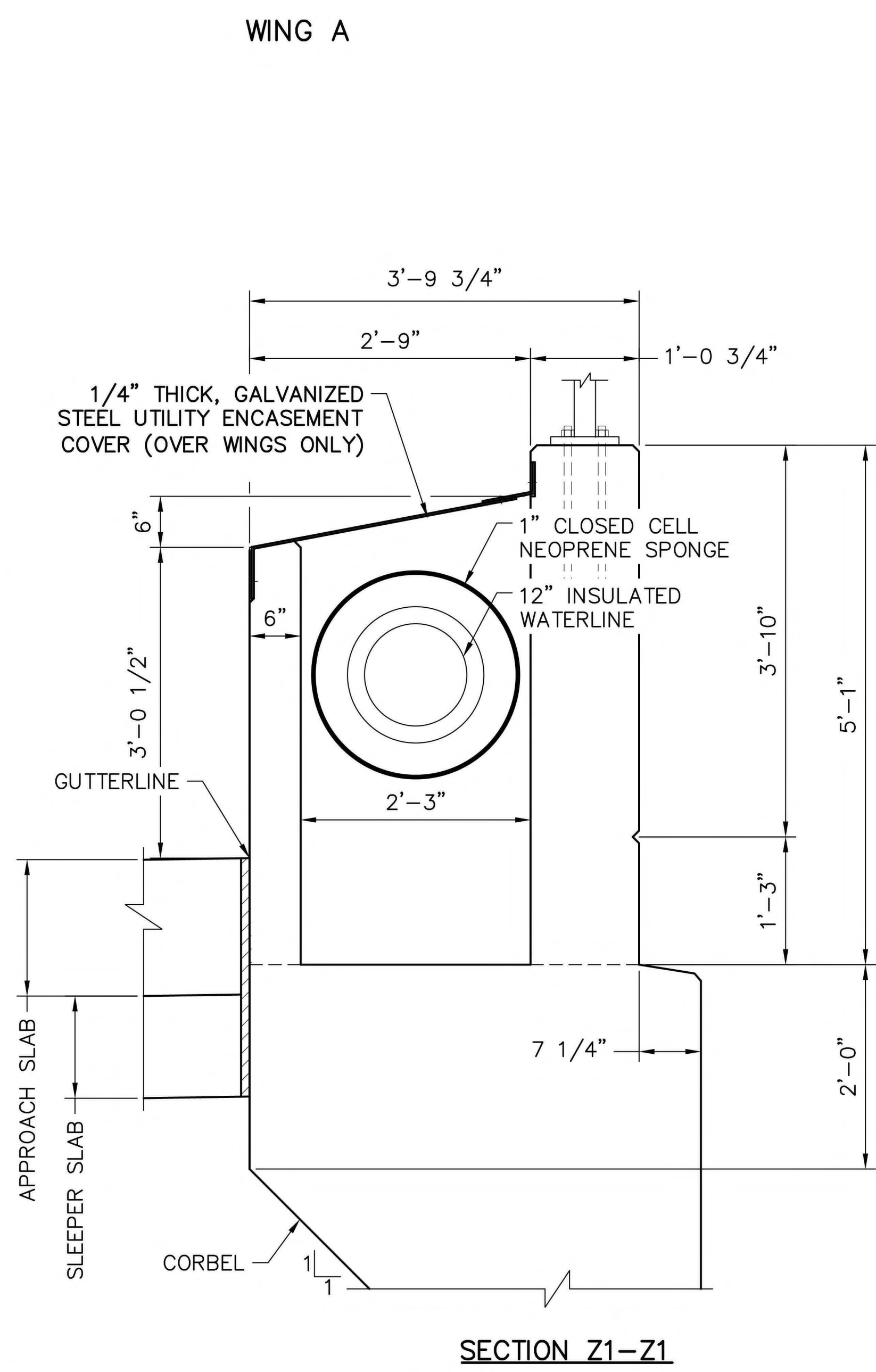
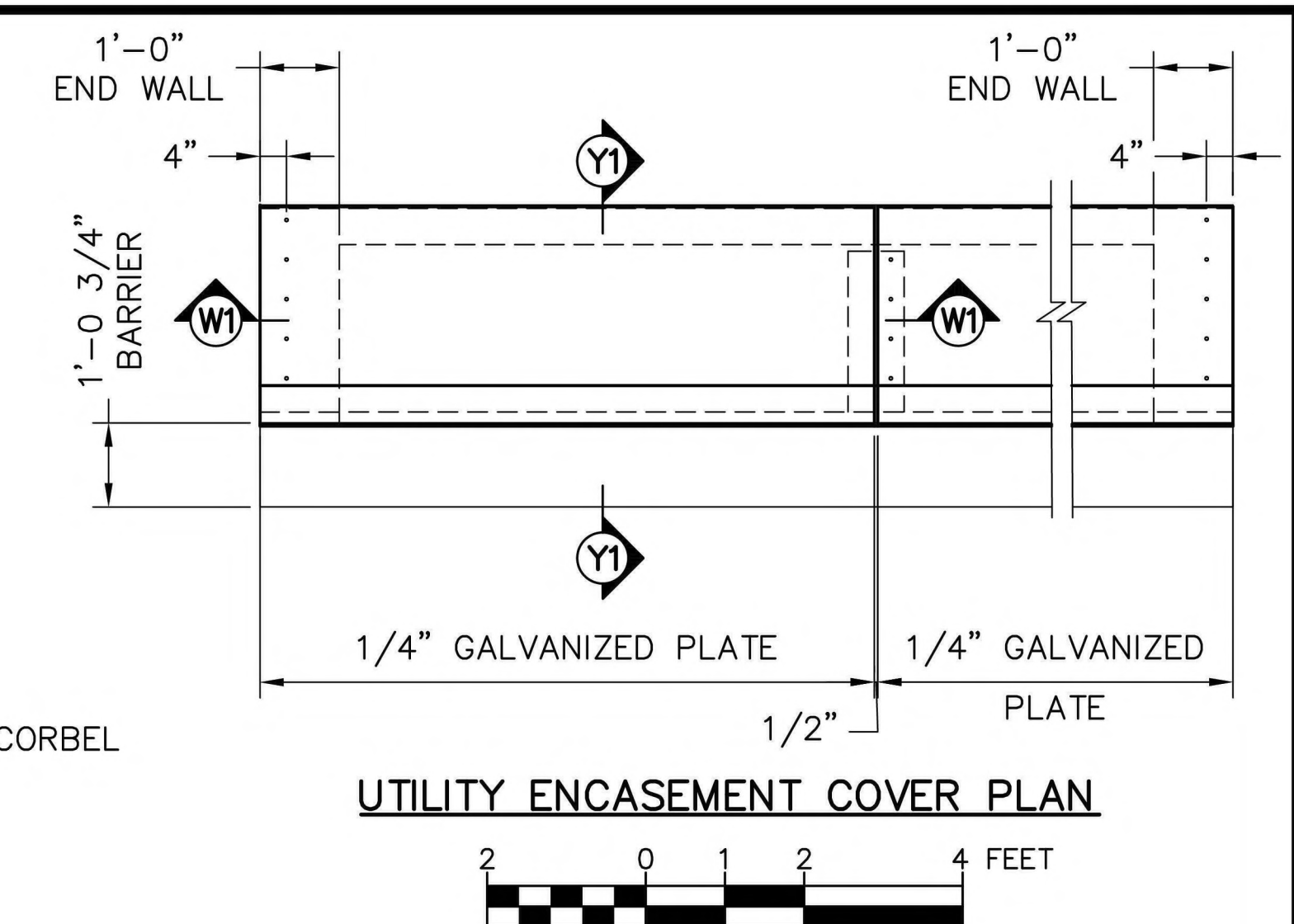
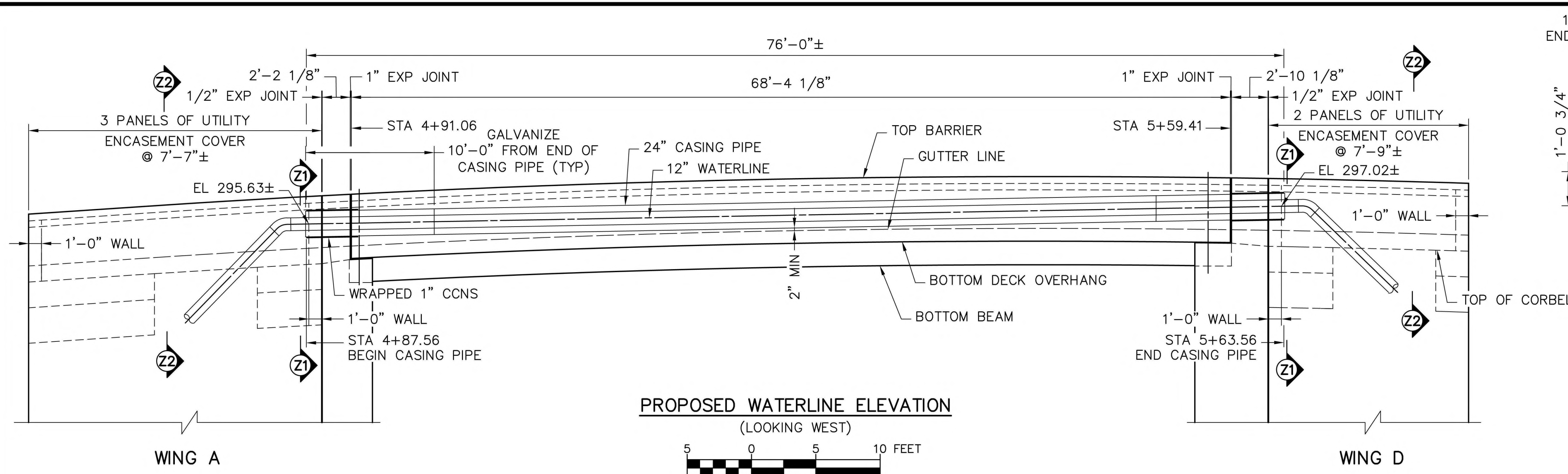
RECOMMENDED 10 / 27 / 2022

SHEET 47 OF 54

S-36195

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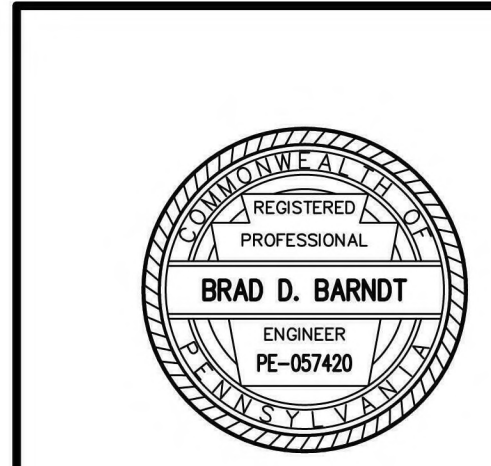
DES: BDT CHK'D: BDB
DWG: JTP CHK'D: BDB



Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: 06-0183-0025-1779 MPMS/ECMS PROJ: 91091 BRKY: 69241

- NOTES:**
- WORK THIS PLAN WITH RAWA UTILITY RELOCATION PLANS AND DETAILS, SEE ROADWAY DRAWINGS.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
RAWA UTILITIES ELEVATION & DETAILS

RECOMMENDED 10 / 27 / 2022 SHEET 48 OF 54

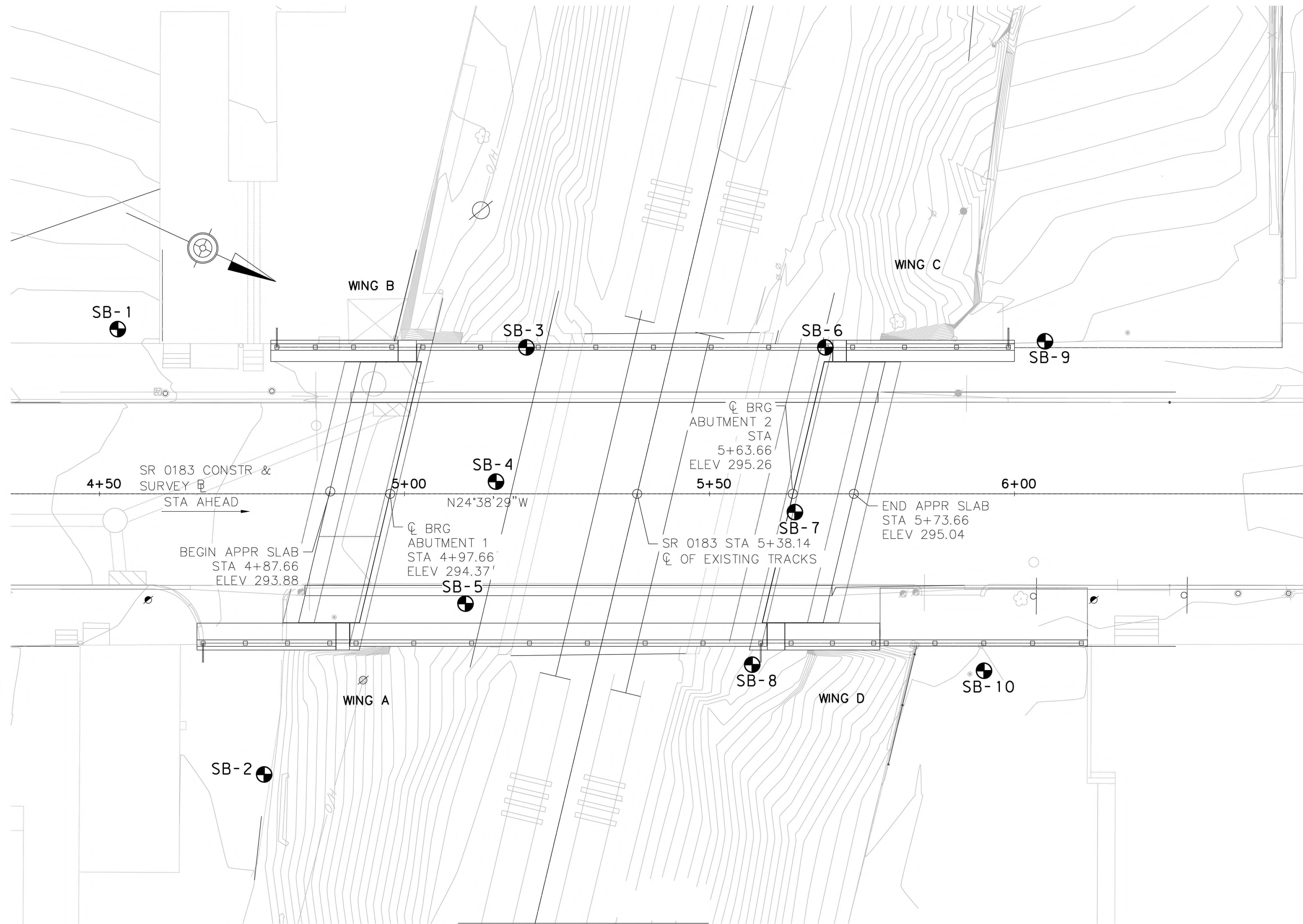
S-36195

W:\01\19A\0119-04-SR_0183\DWG\CAD\2022\Bridges\DWG\0119-04-SR0183-05B-FR-FINAL.dwg - waterline ELEVATION - 8/29/2022 3:03 PM

DES: BDT	CHK'D: BDB
DWG: JTP	CHK'D: BDB

D-9012 CADD 02/90 REV/ISED (10-04)

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PLAN
5' 0' 5' 10'

GENERAL NOTES

- COLUMN A - PROFILE DEPTH IN FEET
- COLUMN B - SAMPLE NUMBER AND TYPE OR RUN NUMBER
- COLUMN C - NUMBER OF BLOWS FOR EVERY 0.5' (EXCEPT AS NOTED) ON SPOON SAMPLER FOR SPT
- COLUMN D - AMOUNT OF RECOVERY IN FEET FOR ROCK AND SOIL
- COLUMN E - % OF SPT RECOVERY OR % OF NX CORE RECOVERY AND ROCK QLTY. DESIGNATION (RQD) PERCENTAGES SHOWN AS % RECOVERY / % RQD
- COLUMN F - POCKET PENETROMETER OR TORVANE PRESSURE IN TSF
- COLUMN G - USCS AND AASHTO CLASSIFICATION
- COLUMN H - MOISTURE CONTENT

FOR ADDITIONAL GENERAL NOTES AND LEGEND, AND SOIL AND ROCK DESCRIPTION REFER TO BC-795M (2010)

▽ ELEV. GROUND WATER ELEVATION IN FEET
HR. HOUR OF READING
DATE DATE OF READING

- SE - SURFACE ELEVATION IN FEET
- TRE - TOP OF ROCK ELEVATION IN FEET
- BFE - BOTTOM OF FOOTING ELEVATION IN FEET
- BCC - ESTIMATED BOTTOM OF CLASS C CONCRETE ELEVATION IN FEET

● - TEST BORING LOCATION

THE CLASSIFICATIONS OF THE MATERIAL ENCOUNTERED HAVE BEEN VERIFIED.

INITIAL

THE INFORMATION, AS SUBMITTED, ACCURATELY REPRESENTS THE CONDITIONS ENCOUNTERED BY THE TEST BORING PROGRAM, INCLUDING BORING LOGS, EARTH SAMPLES, ROCK CORES, CLASSIFICATION OF MATERIALS, AND DEPTH OF BORINGS.

Adam Marole

9/15/17

GEOTECHNICAL ENGINEER/ENGINEERING GEOLOGIST

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

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TEST BORINGS (1 OF 6)

SHEET 49 OF 54

Prepared By:

AMERICAN GEOTECHNICAL & ENVIRONMENTAL SERVICES, INC.

DISTRICT GEOTECHNICAL ENGINEER

DATE

S-36195

D-9012 CADD 02/90 REVISED (10-04)

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300
290
280
270
260
250
240
230

WINGWALL B

BORING NO. SB-1
STA. 4+53, 27 FT LT
ELEV. 287.7'

EL. 287.7	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 287.7	REMARKS
SE	1.5	S-1	5-5-8	0.6	40	-	sw	D	0.0 TO 4.5 WELL-GRADED SAND WITH GRAVEL (sw), GRAY TO RED, DRY, LOOSE TO MEDIUM DENSE, STRATIFIED, (FILL)		
	3.0	S-2	7-3-2	0.7	47	-		D			
	4.5	S-3	12-8-4	0.8	53	-	a-1-b	D	CONTAINS BRICK FRAGMENTS	EL. 283.2	
	6.0	S-4	3-2-2	0.9	60	-	gw	D	4.5 TO 9.0 WELL-GRADED GRAVEL WITH SAND (gw), RED, DRY, VERY LOOSE TO LOOSE, HOMOGENEOUS, (FILL)		NO RECOVERY IN S-6 DUE TO GRAVEL IN TIP OF SPOON
	7.5	S-5	9-7-3	0.7	47	-		D			
	9.0	S-6	9-3-2	0.0	0	-	a-1-a	-	CONTAINS BRICK FRAGMENTS	EL. 278.7	
	10.5	S-7	4-4-4	0.8	53	-	sc	D	9.0 TO 10.5 CLAYEY SAND WITH GRAVEL (sc), BROWN TO RED, DRY, LOOSE, HOMOGENEOUS, (FILL)	EL. 277.2	
	12.0	S-8	3-3-3	0.9	60	-	cl	D	10.5 TO 16.5 CLAY (cl), ORANGE-BROWN, MOIST TO DRY, MEDIUM STIFF TO STIFF, HOMOGENEOUS, (RESIDUAL)		
	13.5	S-9	7-3-3	1.2	80	2.5		M			
	15.0	S-10	5-6-7	1.5	100	4.0		M			
	16.5	S-11	4-3-3	1.3	87	-	a-6	M		EL. 271.2	
	18.0	S-12	7-5-7	1.5	100	3.25	cl	M	16.5 TO 22.5 SILTY CLAY (cl), ORANGE-BROWN, WET TO MOIST, STIFF TO VERY STIFF, HOMOGENEOUS, (RESIDUAL)		
	19.5	S-13	6-8-8	1.5	100	3.25		M			
	21.0	S-14	4-6-6	1.5	100	-		W			
EL. 265.0	22.5	S-15	7-9-10	0.1	7	-	a-6	W		EL. 265.2	
BFE	24.0	S-16	2-7-7	1.0	67	-	CL	W	22.5 TO 28.5 SANDY CLAY (CL), ORANGE BROWN, WET TO MOIST, STIFF TO VERY STIFF, HOMOGENEOUS, (RESIDUAL)		CLASS. ON S-17, S-18 CL/A-4(2) N.M.C.=25.9%
EL. 263.0	25.5	S-17	7-8-9	1.5	100	-		W			
BCC	27.0	S-18	4-5-7	1.3	87	-		M			
	28.5	S-19	6-7-6	1.5	100	2.5	A-4(2)	W		EL. 259.2	
	30.0	S-20	5-4-5	1.5	100	-		W			
EL. 257.7	30.0	S-21	50/0.0	0.0	0	-	gc	W	28.5 TO 30.0 CLAYEY GRAVEL (gc), BROWN-GRAY, WET, LOOSE TO VERY DENSE, HOMOGENEOUS, (RESIDUAL)	EL. 257.7	AUGER REFUSAL @ 30.0 FT
0 HR	32.0	R-1		1.8	90	0	a-2-6		30.0 TO 40.0 DOLOMITE, GRAY TO DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THICKLY BEDDED (RD=70-75), VERY CLOSELY TO MEDIUM JOINTED (RD=0-15, 50-60, 70-75), BROKEN TO MASSIVE, (RQD=46%) (RMR: D=3, S=4-5, R=3-5, I=0-6, W=5-6)		TOP OF ROCK @ 30.0 FT
6-27-14				80							
EL. 257.7	35.0	R-2		2.4	92	13					
TRE											
EL. 251.5	40.0	R-3		4.6	84				COMPLETELY WEATHERED, 32.4-33.0' BOTTOM OF BORING 40.0 FT.	EL. 247.7	
24 HR											
7-14-14											

WATER LEVEL: 0-HRS: 30.0 FT
24-HRS: 36.2 FT

DRILLING DATES: START: 6-27-14
FINISH: 6-27-14

DRILLER: B. MARTZ / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, SPLIT INNER CORE BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: T-250 TRUCK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

NOTE: WINGWALL B FOUNDATIONS CONSIST OF SPREAD FOOTINGS BEARING ON CLASS C CONCRETE TO BEDROCK. ANTICIPATED OVEREXCAVATION DEPTH AT END OF WINGWALL IS 2.0 FEET. BORING SB-1 IS LOCATED BEYOND THE END OF THE WINGWALL.

WINGWALL A

BORING NO. SB-2
STA. 4+77, 46 FT RT
ELEV. 289.0'

EL. 289.0	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 289.0	REMARKS
SE									0.0 TO 1.0 UNSAMPLED	EL. 288.0	
	2.5	S-1	15-10-5	0.8	53	-	sc	D	0.0-0.4', BITUMINOUS CONCRETE 0.4-1.0', SUBBASE	EL. 288.0	NO RECOVERY IN S-2 DUE TO GRAVEL IN TIP OF SPOON
	4.0	S-2	3-3-2	0.0	0	-		-	1.0 TO 5.5 CLAYEY SAND WITH GRAVEL (sc), DARK BROWN, DRY, VERY LOOSE TO MEDIUM DENSE, STRATIFIED, (FILL)	EL. 283.5	BAG SAMPLE, 2.0 TO 11.5 FT.
	5.5	S-3	3-2-2	0.6	40	-	a-2-6	D	CONTAINS SLAG, S-3		
	7.0	S-4	2-2-2	1.0	67	-	cl	M	5.5 TO 13.0 SANDY CLAY (cl), ORANGE-BROWN, MOIST, SOFT TO STIFF, HOMOGENEOUS, (RESIDUAL)		NO RECOVERY IN S-5 DUE TO BROKEN SPOON TRAP REPLACED SPOON TRAP AFTER S-5.
	8.5	S-5	3-4-3	0.0	0	-		M			
	10.0	S-6	7-6-8	0.3	20	-		M			
	11.5	S-7	2-3-5	1.1	73	4.0		M			
	13.0	S-8	4-2-3	0.6	40	4.5	a-6	M		EL. 276.0	
	14.5	S-9	3-7-7	1.3	87	2.75	SC	M	13.0 TO 21.5 CLAYEY SAND (SC), ORANGE-BROWN, WET TO MOIST, LOOSE TO MEDIUM DENSE, HOMOGENEOUS, (RESIDUAL)		
	16.0	S-10	2-4-6	1.5	100	-		M			
	17.5	S-11	8-9-11	1.5	100	-		M			
	19.0	S-12	5-6-9	1.5	100	-		M			CLASS. ON S-12, S-13 SC/A-4(1) N.M.C.=24.0%
	20.5	S-13	6-7-8	1.5	100	-		W			
	22.0	S-14	2-2-7	1.2	80	-	A-4(1)	W		EL. 267.5	
EL. 266.4	22.6	S-15	7-50/0.1	0.6	100	-	gc	W	21.5 TO 23.6 CLAYEY GRAVEL WITH SAND (gc), ORANGE-BROWN TO GRAY, WET, VERY DENSE, HOMOGENEOUS, (RESIDUAL)	EL. 265.4	TOP OF ROCK @ 23.6 FT
0 HR	23.6	S-16	50/0.1	0.1	100	-	a-2-6	W	23.6 TO 35.0 DOLOMITE, DARK GRAY TO GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THICKLY BEDDED (RD=70-75), CLOSE TO WIDELY JOINTED (RD=0-15, 55-60, 70-75), BROKEN TO MASSIVE, (RQD=43%) (RMR: D=3, S=5, R=3, I=2, W=5-6)		
7-14-14	25.6	R-1		2.0	90	30					
EL. 265.4											
TRE											
EL. 265.0											
BFE	28.6	R-2		2.7	86	17					
EL. 262.8											
24 HR											
7-15-14											
	33.6	R-3		4.3	68				CALCITE VEINS THROUGHOUT JOINT (RD=70), CLAY INFILLING, 31.0'		
	35.0	R-4		1.0	71	29			BOTTOM OF BORING 35.0 FT.	EL. 254.0	

WATER LEVEL: 0-HRS: 22.6 FT
24-HRS: 26.2 FT

DRILLING DATES: START: 7-14-14
FINISH: 7-14-14

DRILLER: B. MARTZ / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, SPLIT INNER CORE BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: T-250 TRUCK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

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BERKS COUNTY
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SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TEST BORINGS (2 OF 6)

SEE TEST BORING (1 OF 6) FOR BORING LOCATION LAYOUT,
GENERAL NOTES, AND LEGEND

THE CLASSIFICATIONS OF THE MATERIAL ENCOUNTERED
HAVE BEEN VERIFIED.

[Signature]
INITIAL

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SHEET 50 OF 54

DATE _____

S-36195

D-9012 CADD 02/90 REVISED (10-04)

ABUTMENT 1 / WINGWALL B

ABUTMENT 1

BORING NO. SB-3
STA. 5+20, 24 FT LT
ELEV. 271.0'

BORING NO. SB-4
STA. 5+15, 2 FT LT
ELEV. 271.3'

EL.	A	B	C	D	E	F	G	H	DESCRIPTION	REMARKS
EL. 271.0									0.0 TO 3.5 SILTY SAND WITH GRAVEL (sm), BROWN TO ORANGE, MOIST, LOOSE, HOMOGENEOUS, (FILL)	*BORING GROUTED UPON COMPLETION
EL. 267.3	3.0	S-2	3-3-5	0.5	33	-				
EL. 265.0	3.7	S-3	2-50/0.2	0.7	100	-			3.5 TO 3.7 WELL-GRADED GRAVEL (gw), GRAY, MOIST, VERY DENSE, HOMOGENEOUS, (RESIDUAL)	TOP OF ROCK @ 3.7 FT
EL. 265.0	5.5	R-1		1.0	33				3.7 TO 29.0 DOLOMITE, DARK GRAY TO GRAY, HARD TO VERY HARD, MODERATELY WEATHERED TO FRESH, MEDIUM TO THICKLY BEDDED (RD=70-75), CLOSE TO WIDELY JOINTED (RD=15-20, 70-75), BROKEN TO MASSIVE, (RQD=71%) (RMR: D=3, S=4, R=3-5, I=0-6, W=3-6)	
	7.5	R-2		2.0	30				CALCITE VEINS THROUGHOUT JOINT (RD=70), 11.2' SOFT INFILLING (<0.5mm)	
	10.0	R-3		2.4	0					
	12.5	R-4		2.2	80					
	17.0	R-5		4.5	93					
	22.5	R-6		5.5	95					
	27.5	R-7		5.0	86					
	29.0	R-8		1.0	67					
					67					
										BOTTOM OF BORING 29.0 FT.

EL.	A	B	C	D	E	F	G	H	DESCRIPTION	REMARKS
EL. 271.3									0.0 TO 3.0 SILTY SAND WITH GRAVEL (sm), DARK BROWN, MOIST, LOOSE TO MEDIUM DENSE, HOMOGENEOUS, (FILL)	
EL. 267.9	1.5	S-1	3-3-3	0.6	40	-				
EL. 265.0	3.0	S-2	3-5-6	0.8	53	-				
EL. 265.0	3.4	S-3	50/0.4	0.4	100	-			3.0 TO 3.4 WELL-GRADED GRAVEL WITH SAND (gw), DARK GRAY, MOIST, VERY DENSE, HOMOGENEOUS, (RESIDUAL)	TOP OF ROCK @ 3.4 FT
EL. 265.0	5.4	R-1		1.5	0				3.4 TO 29.0 DOLOMITE, DARK GRAY TO GRAY, HARD TO VERY HARD, MODERATELY WEATHERED TO FRESH, MEDIUM TO THICKLY BEDDED (RD=70-75), CLOSE TO WIDELY JOINTED (RD=0-20, 70-75, 80-85), BROKEN TO MASSIVE, (RQD=60%) (RMR: D=3, S=1-6, R=1-3, I=2, W=3-6)	
	7.4	R-2		2.0	20					
	10.0	R-3		2.4	92					
	12.5	R-4		2.5	88					
	17.5	R-5		5.0	64					
	20.2	R-6		1.8	30				COMPLETELY WEATHERED, 18.2-18.4'	
	22.5	R-7		2.2	43				JOINT (RD=80-85), 20.2-20.6' CLAY INFILLING (<1 mm)	
	27.5	R-8		4.9	86					
	29.0	R-9		1.5	73					
					73					
										BOTTOM OF BORING 29.0 FT.

WATER LEVEL: 0-HRS: 17.5 FT
24-HRS: *BORING GROUTED UPON COMPLETION

WATER LEVEL: 0-HRS: 13.4 FT
24-HRS: 18.0 FT

DRILLING DATES: START: 12-8-14
FINISH: 12-9-14

DRILLING DATES: START: 12-4-14
FINISH: 12-5-14

DRILLER: P. ISHMAN / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN / Y. ZHANG

DRILLER: P. ISHMAN / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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TEST BORINGS (3 OF 6)

SEE TEST BORING (1 OF 6) FOR BORING LOCATION LAYOUT,
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[Signature]

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SHEET 51 OF 54

DATE _____ S-36195

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300
290
280
270
260
250
240
230

ABUTMENT 1 / WINGWALL A

ABUTMENT 2 / WINGWALL C

BORING NO. SB-5
STA. 5+10, 18 FT RT
ELEV. 271.9'

BORING NO. SB-6
STA. 5+69, 24 FT LT
ELEV. 270.9'

EL. 271.9	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 271.9	REMARKS
SE	1.5	S-1	5-7-5	0.7	47	-	sw	D	0.0 TO 4.0 WELL-GRADED SAND WITH GRAVEL (sw), DARK BROWN TO BLACK, WET TO DRY, MEDIUM DENSE, HOMOGENEOUS, (FILL)		
	3.0	S-2	6-8-11	0.9	60	-		D	BRICK FRAGMENTS IN S-3	EL. 267.9	
EL. 266.8	4.5	S-3	9-7-25	0.5	33	-	a-1-b	W	4.0 TO 5.1 WELL-GRADED GRAVEL WITH SAND (gw), GRAY, WET, DENSE TO VERY DENSE, HOMOGENEOUS, (RESIDUAL)	EL. 266.8	TOP OF ROCK @ 5.1 FT
TRE	5.1	S-4	30-50/0.1	0.5	83	-	gw	W	5.1 TO 23.7 DOLOMITE, DARK GRAY TO GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, MEDIUM TO THICKLY BEDDED (RD=70-75), CLOSE TO WIDELY JOINTED (RD=35, 65, 70-75, 80), BROKEN TO MASSIVE, (RQD=61%) (RMR: D=3, S=5, R=3-5, I=2-6, W=5-6)		
EL. 265.0	6.5	R-1		1.4	100						
BFE	7.5	R-2		0.9	90						
	10.0	R-3		2.5	100						
	12.5	R-4		2.5	76						
	17.5	R-5		3.5	40						NO TOOL DROPS IN R-5 OR R-6 LOW RECOVERY DUE TO WEATHERED ROCK.
EL. 255.0	20.0	R-6		1.2	48				JOINT (RD=65), 17.5' CLAY INFILLING		
EL. 253.9	22.5	R-7		2.5	32				VERY BROKEN, 21.9-22.3'		
	25.0	R-8		2.4	76					EL. 248.2	
	26.8	R-9		1.8	83						
	29.0	R-10		2.2	50				23.7 TO 29.0 DOLOMITE, GRAY, VERY HARD, FRESH, THICKLY BEDDED (RD=70-75), MEDIUM TO WIDELY JOINTED (RD=60-65), SLIGHTLY BROKEN TO MASSIVE, (RQD=74%) (RMR: D=3, S=5-6, R=3-5, I=6, W=6) CRYSTALLINE THROUGHOUT JOINT (RD=85), 28.1' ROUGH SURFACE BOTTOM OF BORING 29.0 FT.	EL. 242.9	

WATER LEVEL: 0-HRS: 16.9 FT
24-HRS: 18.0 FT

DRILLING DATES: START: 12-4-14
FINISH: 12-4-14

DRILLER: P. ISHMAN / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

EL. 270.9	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 270.9	REMARKS
SE	1.5	S-1	6-6-8	0.6	40	-	ml	D	0.0 TO 5.0 SANDY SILT WITH GRAVEL (ml), LIGHT BROWN TO BLACK, DRY, STIFF, HOMOGENEOUS, (FILL)		
	3.0	S-2	7-5-9	1.0	67	-		D			
	4.5	S-3	20-8-7	0.2	13	-		D			
EL. 265.0	6.0	S-4	6-9-10	0.8	53	3.0	CL	M	5.0 TO 14.6 SANDY CLAY (CL), ORANGISH BROWN, WET TO MOIST, STIFF TO HARD, HOMOGENEOUS, (RESIDUAL)	EL. 265.9	CLASS. ON OFFSET BORING SB-6A, ST-1, 7.0-9.0 FT CL/A-6(6) N.M.C.=29.6%
BFE	7.5	S-5	8-6-9	1.5	100	2.25		M			
	9.0	S-6	4-5-8	1.4	93	2.0		M			
	10.5	S-7	6-5-10	1.5	100	2.5		M			
	12.0	S-8	7-8-11	1.2	80	3.5		W	MORE SAND IN S-8 TO S-10		
EL. 258.3	13.5	S-9	9-4-5	1.4	93	2.0		W			
0 HR	14.6	S-10	2-8-50/0.1	0.7	64	-	A-6(6)	W	DOLOMITE FRAGMENTS, 14.4-14.6'	EL. 256.3	
EL. 256.3	17.5	R-1		2.2	45				14.6 TO 18.0 DOLOMITE, LIGHT GRAY TO DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THINLY TO MEDIUM BEDDED (RD=70), NO APPARENT JOINTING, SLIGHTLY BROKEN, (RQD=53%)	EL. 252.9	TOP OF ROCK @ 14.6 FT LOST WATER RETURN @ 16.0 FT
TRE/BCC									18.0 TO 20.4 VOID	EL. 250.5	TOOL DROP, 18.0 TO 20.4 FT
EL. 253.4	22.5	R-2		2.5	38				20.4 TO 35.0 DOLOMITE, LIGHT GRAY TO DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THINLY TO THICKLY BEDDED (RD=70), WIDELY TO VERY WIDELY JOINTED (RD=60-70, 75-80), SLIGHTLY BROKEN TO MASSIVE, (RQD=83%) (RMR: D=3, S=5, R=1-3, I=6, W=5-6)		
24 HR	27.5	R-3		5.0	100				JOINT (RD=60-70), 24.6-24.8'		
11-24-14	32.0	R-4		4.5	49				JOINT (RD=75-80), 31.5-32.0'		
	35.0	R-5		3.0	100						BOTTOM OF BORING 35.0 FT.

WATER LEVEL: 0-HRS: 12.6 FT
24-HRS: 17.5 FT

DRILLING DATES: START: 11-20-14
FINISH: 11-20-14

DRILLER: C. MEANOR / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: C. FUSKO

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TEST BORINGS (4 OF 6)

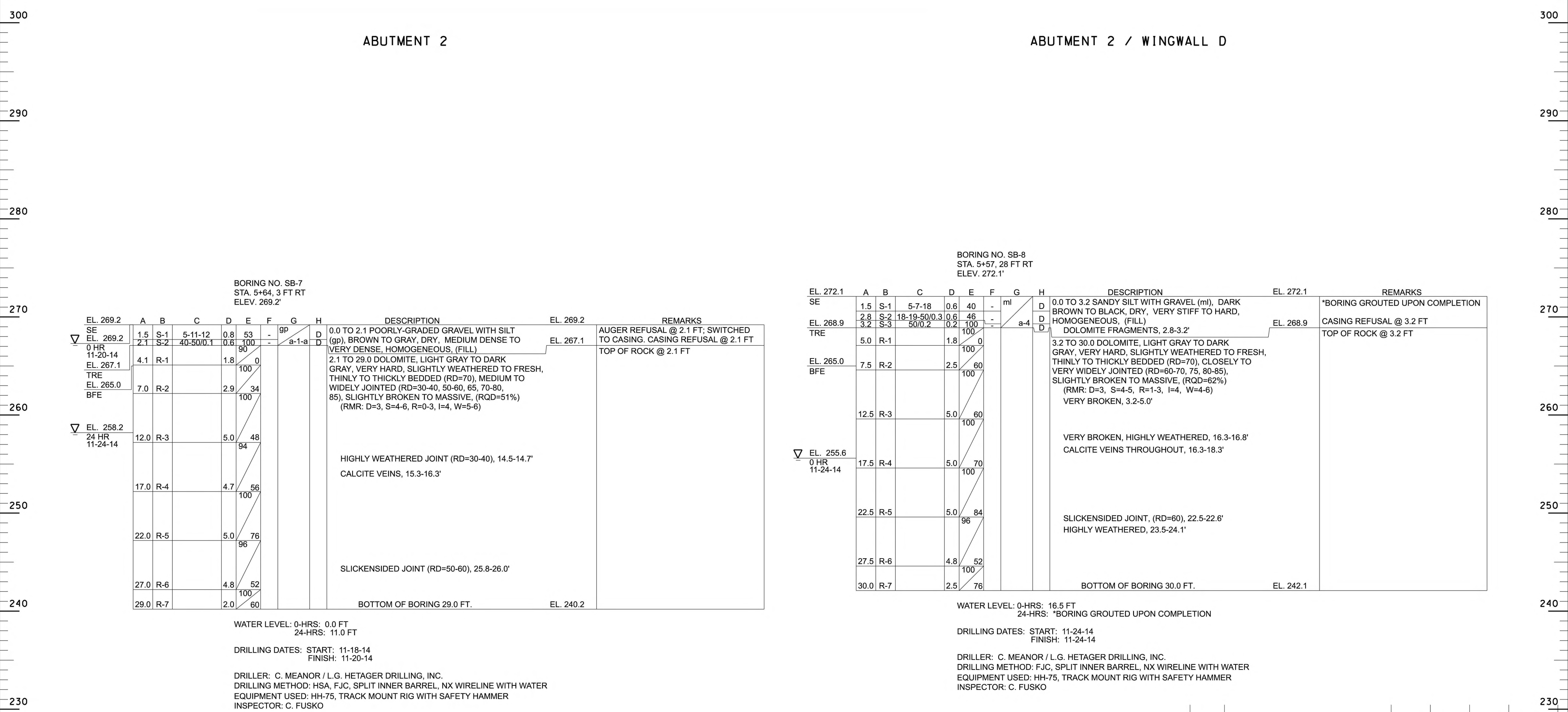
SEE TEST BORING (1 OF 6) FOR BORING LOCATION LAYOUT,
GENERAL NOTES, AND LEGEND

THE CLASSIFICATIONS OF THE MATERIAL ENCOUNTERED
HAVE BEEN VERIFIED.
[Signature]
INITIAL

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

D-9012 CADD 02/90 REV/ISED (10-04)

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WATER LEVEL: 0-HRS: 0.0 FT
 24-HRS: 11.0 FT

DRILLING DATES: START: 11-18-14
 FINISH: 11-20-14

DRILLER: C. MEANOR / L.G. HETAGER DRILLING, INC.
 DRILLING METHOD: HSA, FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
 EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
 INSPECTOR: C. FUSKO

WATER LEVEL: 0-HRS: 16.5 FT
 24-HRS: *BORING GROUTED UPON COMPLETION

DRILLING DATES: START: 11-24-14
 FINISH: 11-24-14

DRILLER: C. MEANOR / L.G. HETAGER DRILLING, INC.
 DRILLING METHOD: FJC, SPLIT INNER BARREL, NX WIRELINE WITH WATER
 EQUIPMENT USED: HH-75, TRACK MOUNT RIG WITH SAFETY HAMMER
 INSPECTOR: C. FUSKO

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
 BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
 S.R. 0183, SEC. 05B
 SEGMENT 0025 OFFSET 1778
 S.R. 0183-05B STA. 5+38.14
 OVER NORFOLK SOUTHERN RAILROAD
 SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
 TEST BORINGS (5 OF 6)

SEE TEST BORING (1 OF 6) FOR BORING LOCATION LAYOUT,
 GENERAL NOTES, AND LEGEND

THE CLASSIFICATIONS OF THE MATERIAL ENCOUNTERED
 HAVE BEEN VERIFIED.

 INITIAL

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

SHEET 53 OF 54

DATE _____

S-36195

D-9012 CADD 02/90 REVISED (10-04)

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300
290
280
270
260
250
240
230

WINGWALL C

BORING NO. SB-9
STA. 6+05, 25 FT LT
ELEV. 291.1'

EL. 291.1	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 291.1	REMARKS
SE	1.5	S-1	3-25-8	0.8	53	-	sw	D	0.0 TO 0.3 TOPSOIL	EL. 290.8	
	3.0	S-2	3-6-3	0.9	60	-		D	0.3 TO 4.5 WELL-GRADED SAND WITH GRAVEL (sw), DARK BROWN TO BLACK, DRY, VERY LOOSE TO DENSE, HOMOGENEOUS, (FILL)	EL. 286.6	
	4.5	S-3	3-2-2	0.9	60	-	a-1-b	D			
	6.0	S-4	2-2-2	0.8	53	-	cl	M	CONTAINS BRICK FRAGMENTS		
	7.5	S-5	3-2-2	0.6	40	-	a-6	M	4.5 TO 7.5 CLAY (cl), ORANGE TO TAN, MOIST, SOFT, HOMOGENEOUS, (FILL)	EL. 283.6	
	9.0	S-6	3-3-4	0.7	47	-	SC	D	7.5 TO 16.5 CLAYEY SAND WITH GRAVEL (SC), ORANGE-BROWN, MOIST, LOOSE TO MEDIUM DENSE, LENSED TO HOMOGENEOUS, (FILL)		
	10.5	S-7	5-5-5	1.0	67	-		M			
	12.0	S-8	4-2-3	0.7	47	-		M	CONTAINS ORGANICS		CLASS. ON S-9, S-10 SC/A-4(0) N.M.C.=16.6%
	13.5	S-9	7-7-9	0.9	60	-		M			
	15.0	S-10	11-12-11	0.7	47	-		M			
	16.5	S-11	5-3-1	0.5	33	-	A-4(0)	M	BRICK FRAGMENTS, S-11	EL. 274.6	
	18.0	S-12	3-3-5	1.5	100	4.5	cl	M	16.5 TO 25.5 SILTY CLAY (cl), ORANGE-BROWN, WET TO MOIST, MEDIUM STIFF TO VERY STIFF, HOMOGENEOUS, (RESIDUAL)		
	19.5	S-13	7-6-7	1.3	87	-		M			
	21.0	S-14	7-8-11	1.5	100	3.5		M			
	22.5	S-15	6-4-6	1.3	87	3.5		M			
▽ EL. 265.1 24 HR 6-26-14 EL. 265.0 BFE	24.0	S-16	5-5-6	1.5	100	3.25	a-6	W		EL. 265.6	
	25.5	S-17	4-4-4	0.9	60	3.25		W			
	27.0	S-18	5-5-4	1.5	100	-	CL	W	25.5 TO 33.0 SANDY CLAY (CL), ORANGE-BROWN, WET, MEDIUM STIFF TO STIFF, HOMOGENEOUS, (RESIDUAL)		CLASS. ON S-19, S-20 CL/A-6(4) N.M.C.=30.0%
	28.5	S-19	2-2-3	1.1	73	-		W			
	30.0	S-20	3-3-4	1.3	87	4.0		W			
▽ EL. 262.5 0 HR 6-24-14	31.5	S-21	3-3-3	0.6	40	-		W			
	33.0	S-22	4-4-5	1.0	67	-	A-6(4)	W		EL. 258.1	
EL. 257.2 24 HR 6-27-14 TRE/BCC	33.9	S-23	3-50/0.4	0.9	100	-	gc	W	33.0 TO 33.9 CLAYEY GRAVEL (gc), GRAYISH BROWN, WET, VERY DENSE, HOMOGENEOUS, (RESIDUAL)	EL. 257.2	TOP OF ROCK @ 33.9 FT
	35.4	R-1		1.5	100	27	a-2-6				
	37.9	R-2		1.7	100	36			33.9 TO 38.3 DOLOMITE, DARK GRAY TO GRAY, VERY HARD, MODERATELY WEATHERED TO FRESH, THICKLY BEDDED (RD=70), CLOSELY TO MEDIUM JOINTED (RD=15-20, 70-75), BROKEN TO MASSIVE, (RQD=30%) (RMR: D=3, S=4, R=3, I=6, W=5-6)	EL. 252.8	
	43.9	R-3		6.0	78				38.3 TO 43.9 DOLOMITE, GRAY, VERY HARD, FRESH, THINLY TO MEDIUM BEDDED (RD=55-60, 70-75), MEDIUM TO WIDELY JOINTED (RD=55-60, 70-75), SLIGHTLY BROKEN TO MASSIVE, (RQD=84%) (RMR: D=3, S=4, R=3, I=6, W=6)	EL. 247.2	

WATER LEVEL: 0-HRS: 28.6 FT
24-HRS: 26.0 FT

DRILLING DATES: START: 6-24-14
FINISH: 6-24-14

DRILLER: B. MARTZ / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, FJC, SPLIT INNER CORE BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: T-250 TRUCK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

WINGWALL D

BORING NO. SB-10
STA. 5+95, 29 FT RT
ELEV. 291.1'

EL. 291.1	A	B	C	D	E	F	G	H	DESCRIPTION	EL. 291.1	REMARKS
SE	1.5	S-1	5-10-9	0.9	60	-	gw	D	0.0 TO 0.4 TOPSOIL	EL. 290.7	
	3.0	S-2	8-16-18	0.6	40	-		D	0.4 TO 4.5 WELL-GRADED GRAVEL WITH SAND (gw), BROWN TO GRAY, DRY, MEDIUM DENSE TO DENSE, STRATIFIED, (FILL)	EL. 286.6	
	4.5	S-3	8-16-6	0.9	60	-	a-1-a	D	BRICK FRAGMENTS, S-3		
	6.0	S-4	5-6-6	0.9	60	-	a-1-b	D	4.5 TO 6.0 WELL-GRADED SAND WITH GRAVEL (sw), BROWN TO BLACK, DRY, MEDIUM DENSE, HOMOGENEOUS, (FILL)	EL. 285.1	LOST RECOVERY AND CORED RAPIDLY FROM 8.0 TO 8.6 FT THROUGH COMPLETELY WEATHERED ROCK.
EL. 282.5 TRE	7.1	S-5	14-24-50/0.1	0.6	55	-	gw	D		EL. 282.5	
	7.9	S-6	50/0.4	0.0	0	-	a-1-a				
	10.0	R-1		1.4	19	90			BRICK AND COAL FRAGMENTS, S-4		TOP OF ROCK @ 8.6 FT
	13.0	R-2		2.7	40	100			6.0 TO 8.6 WELL-GRADED GRAVEL WITH SAND (gw), GRAY, DRY, VERY DENSE, HOMOGENEOUS, (RESIDUAL)	EL. 278.1	
	18.0	R-3		5.0	90	50			8.6 TO 13.0 DOLOMITE, GRAY TO DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THICKLY BEDDED (RD=70-75), CLOSELY TO MEDIUM JOINTED (RD=55-60, 60-70, 70-75), BROKEN TO MASSIVE, (RQD=59%) (RMR: D=3, S=4, R=3-5, I=4, W=1-6)		
	23.0	R-4		4.5	76	67			CALCITE THROUGHOUT		
	29.0	R-5		4.0	28	37			13.0 TO 25.2 DOLOMITE, GRAY TO DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THINLY TO THICKLY BEDDED (RD=70-75), CLOSELY TO MEDIUM JOINTED (RD=10-15, 55-60, 70-75), SLIGHTLY BROKEN TO MASSIVE, (RQD=62%) (RMR: D=3, S=4, R=3, I=2-6, W=5-6)	EL. 265.9	CORED RAPIDLY, NO TOOL DROPS, 25.2-27.2 FT
EL. 265.0 BFE	35.0	R-6		2.2	37	93		gc	CHERT STRINGERS THROUGHOUT HIGHLY WEATHERED, 22.0-22.5'	EL. 263.9	
	38.0	R-7		2.8	73	65		a-2-6	25.2 TO 27.2 CLAYEY GRAVEL (gc), (RESIDUAL)	EL. 259.7	CORED RAPIDLY, NO TOOL DROPS, 31.4-34.4 FT
▽ EL. 257.9 0 HR 6-26-14	40.0	R-8		1.3	50	0		gc	COMPLETELY WEATHERED DOLOMITE	EL. 256.7	
▽ EL. 256.2 24 HR 6-27-14	42.0	R-9		0.0	0	0		a-2-6	27.2 TO 31.4 DOLOMITE, DARK GRAY, VERY HARD, SLIGHTLY WEATHERED TO FRESH, THICKLY BEDDED (RD=70-75), CLOSELY TO MEDIUM JOINTED (RD=5-10, 50-60), BROKEN TO MASSIVE, (RQD=62%) (RMR: D=3, S=4, R=3, I=0, W=5-6)	EL. 251.6	CORED RAPIDLY, NO TOOL DROPS, 39.5-42.0 FT
	44.2	R-10		2.0	90	100		a-2-6	CHERT STRINGERS THROUGHOUT	EL. 248.9	
	47.2	R-11		3.0	77	100		W	31.4 TO 34.4 CLAYEY GRAVEL (gc), (RESIDUAL)	EL. 243.9	

WATER LEVEL: 0-HRS: 33.2 FT
24-HRS: 34.9 FT

DRILLING DATES: START: 6-25-14
FINISH: 6-26-14

DRILLER: B. MARTZ / L.G. HETAGER DRILLING, INC.
DRILLING METHOD: HSA, SPLIT INNER CORE BARREL, NX WIRELINE WITH WATER
EQUIPMENT USED: T-250 TRUCK MOUNT RIG WITH SAFETY HAMMER
INSPECTOR: S. YUAN

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

SR 0183 PREVIOUSLY KNOWN AS LR 310
BMS STR ID: XX-XXXX-XXXX-XXXX MPMS/ECMS PROJ: 91091 BRKY:XXXX

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

BERKS COUNTY
S.R. 0183, SEC. 05B
SEGMENT 0025 OFFSET 1778
S.R. 0183-05B STA. 5+38.14
OVER NORFOLK SOUTHERN RAILROAD
SINGLE SPAN COMP P/S CONC ADJACENT BOX BEAM BRIDGE
TEST BORINGS (6 OF 6)

SEE TEST BORING (1 OF 6) FOR BORING LOCATION LAYOUT,
GENERAL NOTES, AND LEGEND

THE CLASSIFICATIONS OF THE MATERIAL ENCOUNTERED
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[Signature]
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