DISTRICT	COUNTY	CITY	ROUTE	SECTION	TOTAL SHEETS
8-0	YORK	YORK	7301	BRG	31

ECMS NO. 110280

YORK COUNTY

BOARD OF COMMISSIONERS

DRAWINGS
FOR
CONSTRUCTION
OF

CITY ROUTE 7301 SECTION BRG

IN YORK COUNTY

FROM STA. 12+32.00 TO STA. 22+00.00 LENGTH 868.10 FT. 0.164 MI.

PUC APPLICATION DOCKET NUMBER A-2023-3038202

ALSO INCLUDED

TRAFFIC CONTROL PLAN	8 SHEETS
SIGNING AND PAVEMENT MARKING PLAN	5 SHEETS
UTILITY RELOCATION PLAN - WATER	6 SHEETS
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	12 SHEETS
HIGHWAY LIGHTING PLAN	4 SHEETS
STRUCTURE PLAN L-435	63 SHEETS
CROSS SECTIONS	6 SHEET
EXISTING STRUCTURE PLAN	10 SHEETS
AIDS TO NAVIGATION PLAN	3 SHEETS

SCALE

HORIZONTAL 0 25 50 FEET

VERTICAL 0 5 10 FEET

(AND OTHER SCALES AS SHOWN)

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION	- URBAN, MINOR ARTERIAL
ROADWAY TYPOLOGY	- COMMUNITY ARTERIAL - URBAN CORE
DESIGN SPEED	- 25 MPH
PAVEMENT WIDTH	- 22'
SHOULDER WIDTH	- 4'

TRAFFIC DATA

CURRENT A.D.T.	- 4,777 (2026)
DESIGN YEAR A.D.T.	- 5,143 (2046)
D.H.V.	- 566
D	- 60%
T	- 2%

CERTIFIED CORRECT PLANS
Professional Engineer
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
ATTEST Secretary

RECOMMENDED DATE:
DISTRICT EXECUTIVE

PREPARED BY
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER
MATTHEW JOSEPH LENA PE074288

PROFESSIONAL ENGINEER
DATE: December 3, 2025

APPROVED DATE: 12/17/2025
YORK COUNTY COMMISSIONER

APPROVED DATE: 12/17/2025
YORK COUNTY COMMISSIONER

APPROVED DATE: 12/17/2025
YORK COUNTY COMMISSIONER

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	2 OF 31

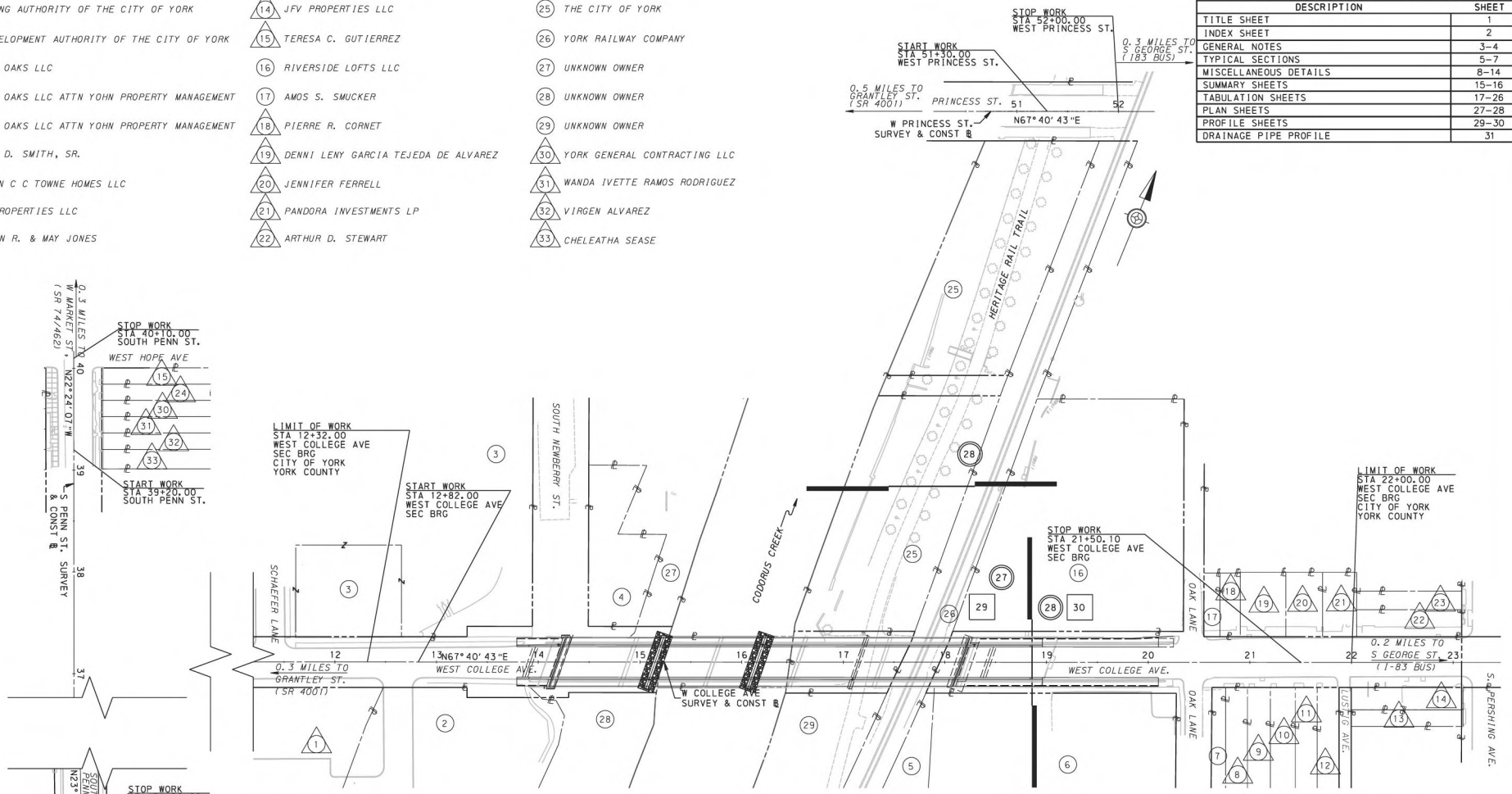
CITY OF YORK

REVISION NUMBER	REVISIONS	DATE	BY

TABULATION OF PROPERTY OWNERS

1. HOUSING AUTHORITY OF THE CITY OF YORK
2. THE CITY OF YORK
3. HOUSING AUTHORITY OF THE CITY OF YORK
4. REDEVELOPMENT AUTHORITY OF THE CITY OF YORK
5. GREEN OAKS LLC
6. GREEN OAKS LLC ATTN YOHN PROPERTY MANAGEMENT
7. GREEN OAKS LLC ATTN YOHN PROPERTY MANAGEMENT
8. JAMIE D. SMITH, SR.
9. HUDSON C C TOWNE HOMES LLC
10. BPY PROPERTIES LLC
11. MELVIN R. & MAY JONES
12. TANISHA E BAKER
13. GABRIELE M. JENKINS
14. JFV PROPERTIES LLC
15. TERESA C. GUTIERREZ
16. RIVERSIDE LOFTS LLC
17. AMOS S. SMUCKER
18. PIERRE R. CORNET
19. DENNI LENY GARCIA TEJEDA DE ALVAREZ
20. JENNIFER FERRELL
21. PANDORA INVESTMENTS LP
22. ARTHUR D. STEWART
23. MERCIFUL REAL ESTATE LLC
24. SHARLA K. COON
25. THE CITY OF YORK
26. YORK RAILWAY COMPANY
27. UNKNOWN OWNER
28. UNKNOWN OWNER
29. UNKNOWN OWNER
30. YORK GENERAL CONTRACTING LLC
31. WANDA IVETTE RAMOS RODRIGUEZ
32. VIRGEN ALVAREZ
33. CHELEATHA SEASE

SHEET INDEX BLOCK



INDEX MAP

SCALE

0 50 100 FEET

SURVEY BOOK NUMBER 003721.0429

LEGEND

- (1) PLAN
- [1] PROFILE
- (1) PARCEL IDENTIFICATION NUMBER
- (1) PARCEL IDENTIFICATION NUMBER - NO TAKE
- SHEET BREAK

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	3 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

PA ONE CALL

ACT 181 OF 2006

PENNSYLVANIA ACT 287 (1974) AS AMENDED, REQUIRES NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE COMMONWEALTH.
AS REQUIRED BY PA ACT 287, AS AMENDED, HRG HAS PROVIDED THE NAME OF THE FACILITY OWNERS AS SHOWN ON THE LIST FROM THE ONE CALL SYSTEM, THE SERIAL NUMBER OF ONE CALL NOTICE AND THE TOLL FREE NUMBER OF THE ONE CALL SYSTEM.
ADDITIONALLY, AS REQUIRED BY PENNDOT, ADDRESSES AND PHONE HAVE BEEN PROVIDED FOR INFORMATIONAL AND CONVENIENCE PURPOSES AND HRG IS NOT RESPONSIBLE FOR THEIR ACCURACY. SERIAL NO. 20191922358 HAVE BEEN ASSIGNED TO THIS PROJECT ON JULY 11, 2019.

LIST OF PUBLIC UTILITIES

COLUMBIA GAS OF PA INC
ATTN: COLE HAINES
1600 COLONY ROAD
YORK, PA 17408
CHAINES@NISOURCE.COM
G — G —

COMCAST CABLE COMMUNICATIONS
ATTN: FRANKLIN HOM
4601 SMITH STREET
HARRISBURG, PA 17109
FRANKLIN_HOM@COMCAST.COM
CTV — CTV —

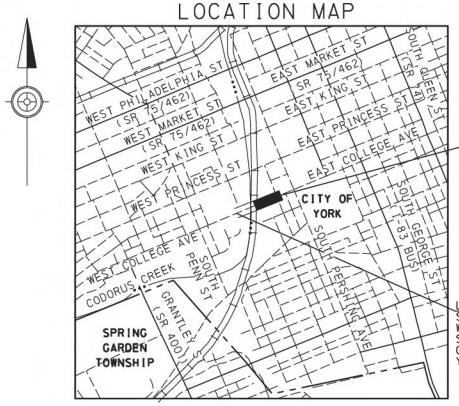
MET-ED / FIRSTENERGY
ATTN: CHRIS FOURHMAN
2800 POTTSVILLE PIKE
READING, PA 19640
CFOURHMAN@FIRSTENERGYCORP.COM
E — E —

PENNSYLVANIA AMERICAN WATER
ATTN: BRAD GANTZ
1701 BLACKBRIDGE RD
YORK, PA 17402
BRAD.GANTZ@AMWATER.COM
S — S —

VERIZON BUSINESS
ATTN: SCOTT DREILING
400 INTERNATIONAL SPEEDWAY
RICHARDSON, TX 75081
SCOTT.J.DREILING@VERIZON.COM
T

YORK WATER COMPANY
ATTN: KENT CROMAN
130 EAST MARKET STREET
YORK, PA 17405
KENTC@YORKWATER.COM
W — W —

LOCATION MAP



SCALE
0 1000 2000 FEET

LEGEND
- PROJECT
- STATE ROAD
- TOWNSHIP ROAD
- LEGISLATIVE BOUNDARY LINE
- STREAM
- RAIL ROAD LINE

TABULATION OF OVERALL LENGTH

W COLLEGE AVE STA 12+32.00 TO STA 22+00.00 = 968.00' = 0.183 MI.
S PENN ST STA 30+00.00 TO STA 40+60.00 = 1,060.00' = 0.201 MI.
W PRINCESS ST STA 50+80.00 TO STA 52+50.00 = 170.00= 0.032 MI.

TABULATION OF CONSTRUCTION LENGTH

W COLLEGE AVE STA 12+82.00 TO STA 21+50.10 = 868.10' = 0.164 MI.
S PENN ST STA 30+60.00 TO STA 31+20.00 AND STA 39+20.00 TO STA 40+10.00 = 150.00' = 0.028 MI.
W PRINCESS ST STA 51+30.00 TO STA 52+00.00 = 70.00' = 0.013 MI.

LIST OF STATION EQUALITIES

NONE

TABULATION OF SEGMENT EQUALITIES

NONE

SUMMARY OF PROJECT COORDINATES

PA STATE PLANE COORDINATE SYSTEM - PA SOUTH (NAD 83)

ROUTE	STATION	POINT	COORDINATES NORTH	COORDINATES EAST	BEARINGS
W COLLEGE AVE. SURVEY & CONSTR ℄	10+00.00	POT	228371.0145	2253357.1740	N67°40'43"E
	24+10.98	POT	228906.9038	2254662.4265	
S PENN ST. SURVEY & CONSTR ℄	30+00.00	POT	227600.3903	2253354.2333	N23°06'18"W
	36+37.00	POT	228186.2905	2253104.2657	
	41+00.00	POT	228614.3541	2252927.8145	N22°24'07"W
W PRINCESS ST. SURVEY & CONSTR ℄	50+00.00	POT	229164.6702	2253864.2663	N67°40'43"E
	53+00.00	POT	229278.6101	2254141.7869	

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

SUMMARY OF TRAVERSE COORDINATES

PA STATE PLANE COORDINATE SYSTEM - PA SOUTH (NAD 83)

DESCRIPTION	STATION	OFFSET	SIDE	COORDINATES NORTH	COORDINATES EAST
W. COLLEGE AVE. SURVEY & CONSTR ℄					
T-REBAR (#1)	15+24.95	179.17	LT	228736.1300	2253774.7390
T-MAG (#2)	15+21.00	157.73	LT	228714.8000	2253779.2270
T-MAG (#3)	13+16.27	14.60	LT	228504.6370	2253644.2060
T-MAG (#4)	-	-	-	228332.0170	2253324.7870
T-MAG (#5)	20+29.71	28.35	LT	228788.3250	2254298.9630
T-MAG (#6)	23+88.90	27.59	RT	228873.0010	2254652.4810
T-MAG (#7)	14+78.00	1.37	RT	228551.2900	2253799.8770
T-MAG (#8)	17+10.38	81.71	LT	228716.4010	2253983.2940
T-MAG (#9)	16+85.48	8.34	RT	228623.6480	2253994.4550
T-MAG (#10)	18+71.15	7.04	LT	228708.3910	2254160.3680

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

EARTHWORK SUMMARY ENTIRE PROJECT

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

CUBIC YARDS OF EXCAVATION						CUBIC YARDS OF COMPLETED EMBANKMENT	CUBIC YARDS OF BORROW EXCAVATION	CUBIC YARDS OF SELECTED BORROW**	CUBIC YARDS OF WASTE
CLASS 1	CLASS 1A	CLASS 1B	CLASS 2	CLASS 3*	CLASS 4				
1,406	37	-	-	7,265	-	0	242	1,372	8,708

NOTES
* - PART OF LUMP SUM STRUCTURE ITEM
** - INCLUDES 714 CY OF SELECTED BORROW EXCAVATION ROCK, CLASS R-8, 381 CY OF SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH ROCK, CLASS R-5, AND 277 CY OF SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 57

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

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GENERAL NOTES

THE LEGAL RIGHT-OF-WAY ON CITY ROUTE 7301, WEST COLLEGE AVE, FROM STA 13+30.00 TO STA 20+35.00 IS VARIABLE, BASED ON A PLAN OF CITY ROUTE 7301, WEST COLLEGE AVE, SECTION R/W SIGNED ON 8/29/2025 AND RECORDED ON 9/2/2025, DEED BOOK 2879, PAGE 5774 IN YORK COUNTY RECORDER'S OFFICE.

THE LEGAL RIGHT-OF-WAY ON WEST COLLEGE AVENUE, FROM STATION 12+07 TO STATION 13+30 (WESTERN LIMIT OF BRIDGE) IS 50 FEET, BASED ON THE CITY OF YORK ORDINANCE DOCUMENT D-6 DATED JANUARY 17 1902, RECORDED IN THE CITY OF YORK OFFICES, YORK COUNTY.

THE LEGAL RIGHT-OF-WAY ON WEST COLLEGE AVENUE, FROM STATION 20+35 (WESTERN LIMIT OF BRIDGE) TO STATION 22+00 IS 50 FEET, BASED ON THE CITY OF YORK ORDINANCE DOCUMENT F-117 DATED AUGUST 14 1908, RECORDED IN THE CITY OF YORK OFFICES, YORK COUNTY.

THE LEGAL RIGHT-OF-WAY ON OAK LANE SOUTH OF W. COLLEGE AVE IS 35 FEET, BASED ON ENGINEERING SECTIONAL SURVEYS DEVELOPED BY THE WORKS PROGRESS (PROJECTS) ADMINISTRATION IN THE 1930'S AND STORED WITHIN THE CITY OF YORK RECORDS. THERE IS NO PUBLIC RECORD OF ANY OTHER WIDTH.

THE LEGAL RIGHT-OF-WAY ON OAK LANE NORTH OF W. COLLEGE AVE IS 20 FEET, BASED ON ENGINEERING SECTIONAL SURVEYS DEVELOPED BY THE WORKS PROGRESS (PROJECTS) ADMINISTRATION IN THE 1930'S AND STORED WITHIN THE CITY OF YORK RECORDS. THERE IS NO PUBLIC RECORD OF ANY OTHER WIDTH.

THE LEGAL RIGHT-OF-WAY ON W. HOPE AVENUE (FORMERLY KNOWN AS BAPTIST STREET) ADJACENT TO PENN STREET IS 20 FEET. W. HOPE AVENUE EAST OF PENN STREET IS BASED ON AN ORDINANCE KNOW AS BILL NO. 51 DATED FEBRUARY 3, 1892 RECORDED IN THE CITY OF YORK OFFICES, YORK COUNTY; W. HOPE AVENUE WEST OF PENN STREET IS BASED ON ENGINEERING SECTIONAL SURVEYS DEVELOPED BY THE WORKS PROGRESS(PROJECTS) ADMINISTRATION IN THE 1930'S AND STORED WITHIN THE CITY OF YORK RECORDS. THERE IS NO PUBLIC RECORD OF ANY OTHER WIDTH.

THE LEGAL RIGHT-OF-WAY ON PENN STREET NORTH OF W COLLEGE AVE IS 55 FEET, BASED ON ENGINEERING SECTIONAL SURVEYS DEVELOPED BY THE WORKS PROGRESS (PROJECTS) ADMINISTRATION IN THE 1930'S AND STORED WITHIN THE CITY OF YORK RECORDS. THERE IS NO PUBLIC RECORD OF ANY OTHER WIDTHS.

THE LEGAL RIGHT-OF-WAY ON PENN STREET SOUTH OF W COLLEGE AVE IS 51 FEET, BASED ON ENGINEERING SECTIONAL SURVEYS DEVELOPED BY THE WORKS PROGRESS (PROJECTS) ADMINISTRATION IN THE 1930'S AND STORED WITHIN THE CITY OF YORK RECORDS. THERE IS NO PUBLIC RECORDS OF ANY OTHER WIDTHS.

THE LEGAL RIGHT-OF-WAY ON PRINCESS STREET IS 58 FEET, BASED ON THE CITY OF YORK ORDINANCE DOCUMENT A-332 DATED FEBRUARY 25, 1890, RECORDED IN THE CITY OF YORK OFFICES, YORK COUNTY. (THIS IS FOR THE SECTION FROM THE RIVER EAST TO QUEEN STREET)

CONSTRUCT PROJECT IN ACCORDANCE WITH PUBLICATION 408 SPECIFICATION, CHANGE NO. 11

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

RC-10M	6/01/2010	RC-30M	12/18/2024	RC-45M	2/19/2021	RC-61M	6/01/2010
RC-11M	6/01/2010	RC-31M	12/18/2024	RC-46M	2/19/2021	RC-64M	2/19/2021
RC-12M	11/01/2022	RC-32M	6/01/2010	RC-51M	12/18/2024	RC-67M	2/19/2021
RC-13M	6/01/2010	RC-39M	11/30/2021	RC-58M	12/18/2024	RC-70M	2/08/2019
RC-25M	2/27/2023	RC-40M	2/08/2019	RC-60M	6/01/2010	RC-72M	2/08/2019
RC-73M	2/08/2019	RC-81M	6/01/2010	TC-8604	8/17/2021	BC-751M	1/31/2019
RC-74M	2/08/2019	RC-84M	6/01/2010	TC-8702B	6/13/2013	BC-752M	11/23/2022
RC-75M	6/01/2010	RC-91M	12/17/2019	BC-734M	2/19/2021	BC-755M	1/31/2019
RC-77M	12/17/2019	RC-92M	6/01/2010	BC-735M	9/30/2016	BC-775M	11/23/2022
RC-80M	12/18/2024	TC-8600	6/13/2013	BC-736M	11/23/2022	BC-788M	11/23/2022

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

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 COUNTY. 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 COUNTY.

NO INTERFERENCE SHALL BE MADE WITH THE RIGHT OF THE COUNTY 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 COUNTY.

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 ALTERNATION OF THE RAILROAD AND ITS SUPPORTING FACILITIES.

GENERAL NOTES CNT'D

THREE TO TEN WORKING DAYS PRIOR TO EXCAVATION BASED ON THE COMPLEXITY OF THE PROJECT, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC., PHONE 1-800-242-1776, SERIAL NO. ____________ FOR CITY OF YORK. ADDITIONAL INFORMATION IS AVAILABLE AT https://www.pa1call.org/PA811/Public/.

THE CONTRACTOR IS REQUIRED TO NOTIFY THE OWNER 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).

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 ERECTED 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.

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 COUNTY.

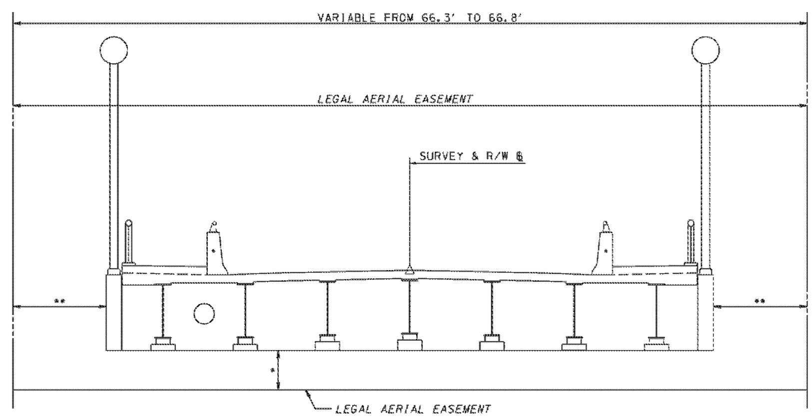
THE HORIZONTAL CONTROL IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD 1983) PENNSYLVANIA STATE PLANE COORDINATE SYSTEM, SOUTH ZONE 3702.

VERTICAL CONTROL IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

HORIZONTAL DATUM IS TIED TO THE PENNSYLVANIA STATE PLANE COORDINATE SYSTEM OF NAD 83 (2011) SOUTH ZONE.

CODOROUS CREEK IS CLASSIFIED AS A NAVIGABLE WATERWAY.

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.



SKETCH SHOWING ESTATE TO BE ACQUIRED FOR A LIMITED LEGAL AERIAL EASEMENT FROM STA 17+46 TO STA 18+06

* 2 FT

** 7 FT

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

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074268

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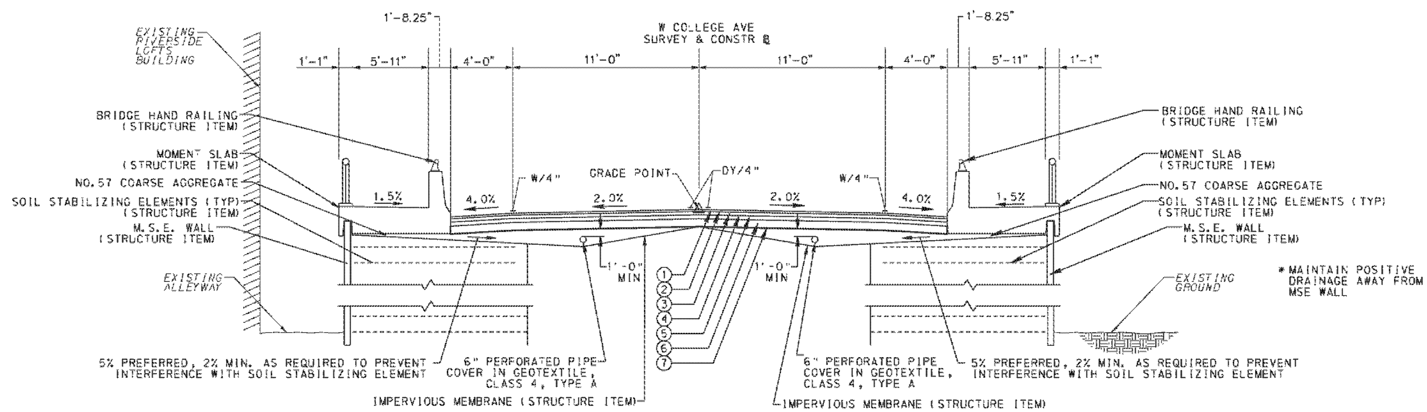
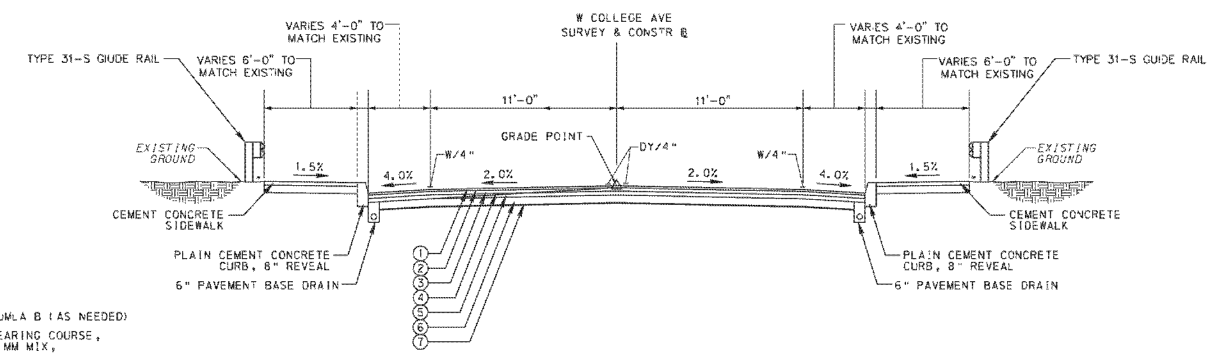
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	5 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



TYPICAL SECTION - WEST COLLEGE AVE

NOT TO SCALE
STA 13+79.00 TO STA 14+26.70
STA 18+08.30 TO STA 18+96.00



TYPICAL SECTION - WEST COLLEGE AVE

NOT TO SCALE
STA 12+98.00 TO STA 13+79.00
STA 20+10.00 TO STA 20+35.89

LEGEND

- * SEEDING ANDS SOIL SUPPLEMENTS - FORUMLA B (AS NEEDED)
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H
- ② ASPHALT TACK COAT
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- ④ ASPHALT TACK COAT
- ⑤ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH (OR MATCH EXISTING WHICHEVER IS GREATER)
- ⑥ SUBBASE 6" DEPTH (NO. 2A) (OR MATCH EXISTING WHICHEVER IS GREATER
- ⑦ GEOTEXTILE CLASS 4, TYPE A
- ⑧ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- W/4" 4" SINGLE WHITE WATERBORNE PAVEMENT MARKINGS
- DY/4" 4" DOUBLE YELLOW WATERBORNE PAVEMENT MARKINGS

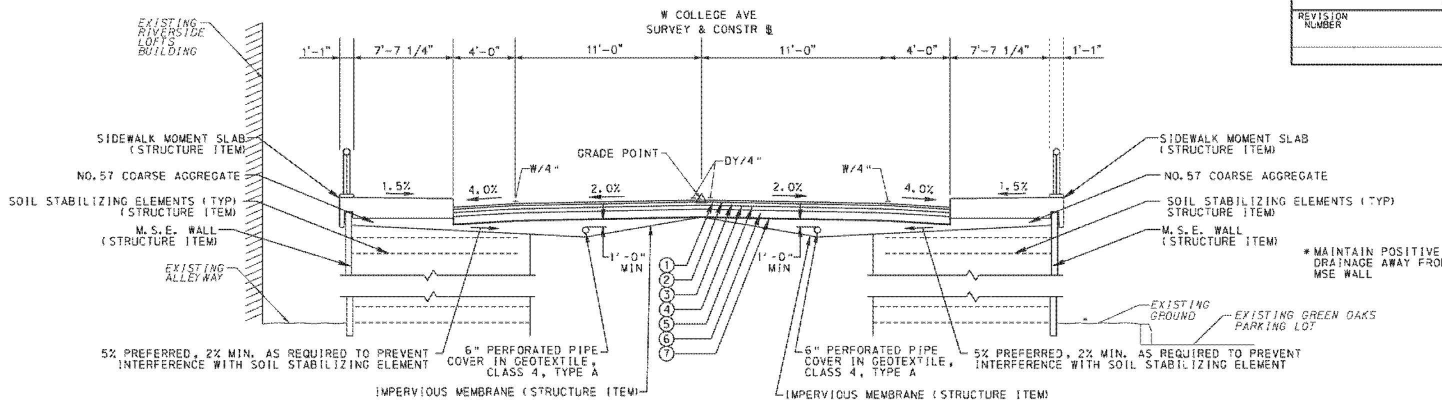
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074268

TYPICAL SECTIONS

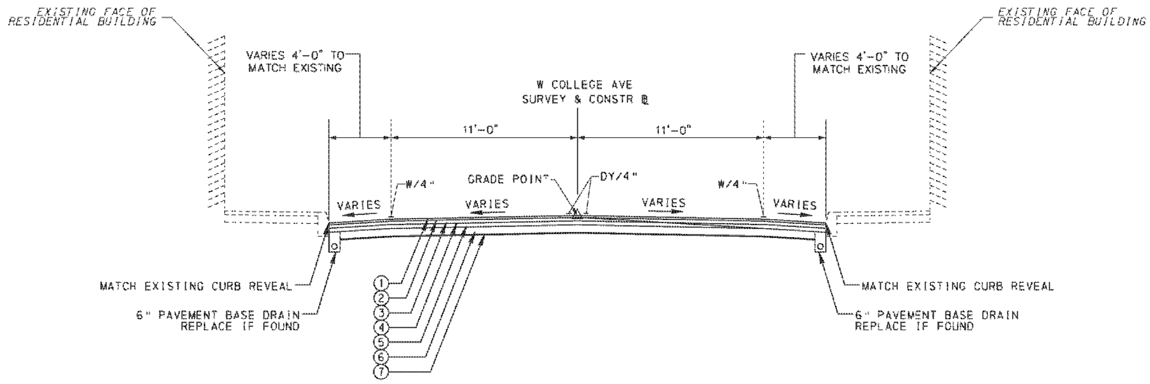
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	6 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



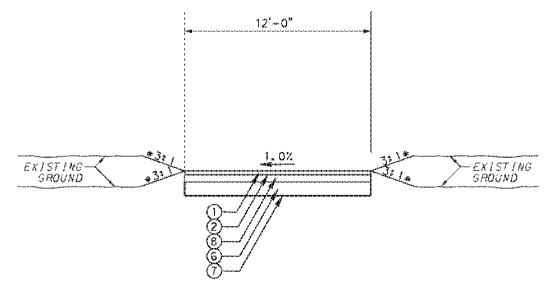
TYPICAL SECTION - WEST COLLEGE AVE

NOT TO SCALE
STA 18+96.00 TO STA 20+10.00



TYPICAL SECTION - WEST COLLEGE AVE

NOT TO SCALE
STA 20+35.89 TO STA 21+50.10



TYPICAL SECTION - HERITAGE RAIL TRAIL

NOT TO SCALE
STA 16+90.05 TO STA 17+47.70

LEGEND

- * SEEDING ANDS SOIL SUPPLEMENTS - FORUMLA B (AS NEEDED)
- ① SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H
- ② ASPHALT TACK COAT
- ③ SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- ④ ASPHALT TACK COAT
- ⑤ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH (OR MATCH EXISTING WHICHEVER IS GREATER)
- ⑥ SUBBASE 6" DEPTH (NO. 2A) (OR MATCH EXISTING WHICHEVER IS GREATER
- ⑦ GEOTEXTILE CLASS 4, TYPE A
- ⑧ SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH

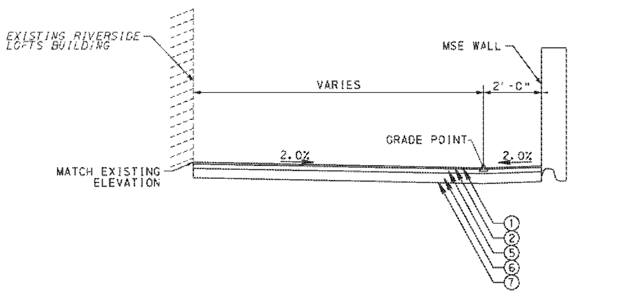
W/4" 4" SINGLE WHITE WATERBORNE PAVEMENT MARKINGS

DY/4" 4" DOUBLE YELLOW WATERBORNE PAVEMENT MARKINGS

TYPICAL SECTIONS

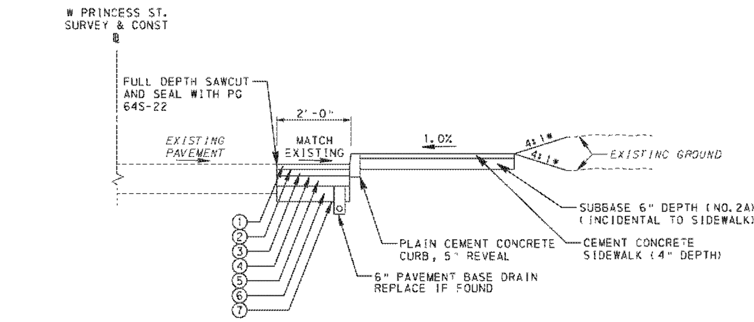
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074268



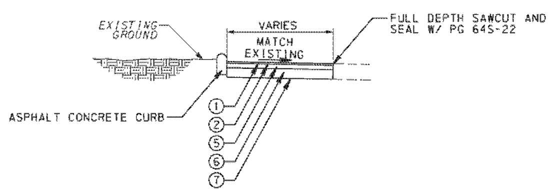
TYPICAL SECTION - RIVERSIDE LOFTS ALLEY

NOT TO SCALE



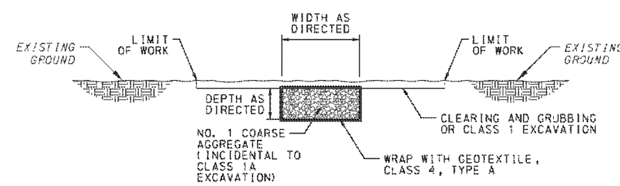
TYPICAL SECTION - W PRINCESS ST SIDEWALK

NOT TO SCALE



TYPICAL SECTION - GREEN OAKS PARKING LOT

NOT TO SCALE



UNDERCUTTING DETAIL

NOT TO SCALE
LOCATION AS DIRECTED

LEGEND

- * SEEDING ANDS SOIL SUPPLEMENTS - FORUMLA B (AS NEEDED)
- (1) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H
- (2) ASPHALT TACK COAT
- (3) SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH
- (4) ASPHALT TACK COAT
- (5) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH (OR MATCH EXISTING WHICHEVER IS GREATER)
- (6) SUBBASE 6" DEPTH (NO. 2A) (OR MATCH EXISTING WHICHEVER IS GREATER
- (7) GEOTEXTILE CLASS 4, TYPE A
- (8) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- W/4" 4" SINGLE WHITE WATERBORNE PAVEMENT MARKINGS
- DY/4" 4" DOUBLE YELLOW WATERBORNE PAVEMENT MARKINGS

TYPICAL SECTIONS

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074268

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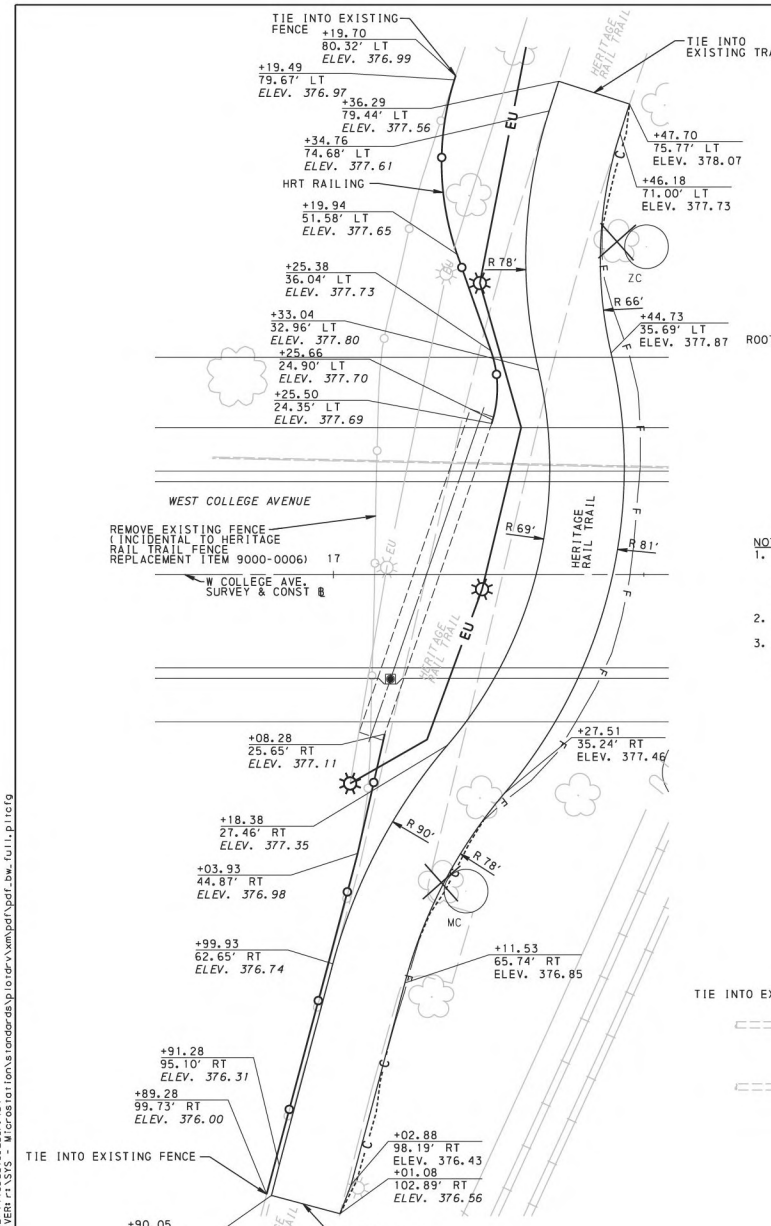
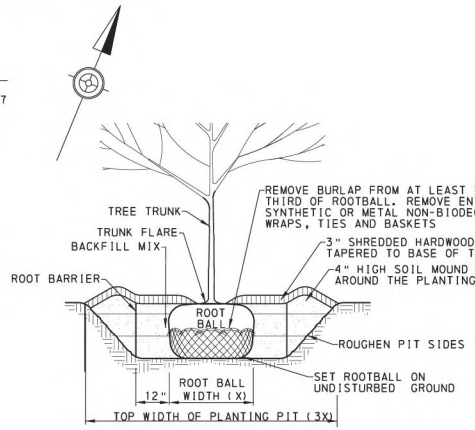
8-0	YORK	7301	BRG	8 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



HRT TRAIL RELOCATION



BALLED AND BURLAPPED OR CONTAINER

NOTES:
1. TRUNK FLARE SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO THE ORIGINAL NURSERY CONDITION. TOP OF ROOTBALL SHALL BE PLACED NO LOWER THAN PREVAILING FINISHED GRADE OF ADJACENT GROUND. TOP OF ROOTBALL MAY BE SET AS MUCH AS 2" HIGHER THAN ADJACENT GROUND IF POOR DRAINAGE CONDITIONS ARE OBSERVED.
2. DO NOT DAMAGE OR CUT TRUNK LEADERS. TREES SHALL BE SELECTIVELY PRUNED AS NEEDED TO REMOVE DEAD OR INJURED BRANCHES.
3. BACKFILL MIX SHALL BE 3:1 RATIO OF COMPOSTED ORGANIC MATERIAL AND NATIVE SOIL AMENDED IN ACCORDANCE WITH PENNDOT PUBLICATION 408. BACKFILL SHALL BE PLACE IN 9" LIFTS. WITH EACH LIFT, SOIL SHALL BE TAMPED AND WATERED TO REMOVE VOIDS.

LANDSCAPE NOTES

1. FERTILIZE ALL PLANTINGS IN ACCORDANCE WITH PENNDOT PUBLICATION 408 SPECIFICATIONS AND MULCH WITH MIN. 3" SHREDDED AND TANNED OAK BARK AROUND ALL NEW PLANTS IN CONTINUOUS BEDS AS INDICATED ON THE PLAN (FERTILIZE IN SPRING ONLY). A SOIL TEST SHALL BE PERFORMED BY A QUALIFIED LABORATORY. ADJUSTMENT TO PLANT AND FERTILIZER MATERIAL AND APPLICATION SHALL BE MADE AS AUTHORIZED BY OWNER, UNDER THE DIRECTION OF THE DESIGN PROFESSIONAL, IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
2. ALL DISTURBED OR DAMAGED AREAS SHALL BE REPAIRED AND REFINISHED WITH MATERIALS TO MATCH EXISTING ADJACENT SURFACES.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE SITE BEFORE PROCEEDING WITH EACH PHASE OF WORK. LOCATIONS OF EXISTING AERIAL OR SUB-SURFACE UTILITY LINES INDICATED ARE APPROXIMATE AND NEITHER THE OWNER NOR ENGINEER GUARANTEE THE ACCURACY OR COMPLETENESS OF THESE LOCATIONS. IF THERE ARE ANY CONFLICTS DUE TO EXISTING OR AS-BUILT CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR FIELD ADJUSTMENT APPROVAL.
4. CONTRACTOR SHALL NOTIFY PA ONE-CALL BY CALLING 1 (800) 242-1776. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO AVOID DISTURBING ALL EXISTING UTILITY LINES WHETHER MAPPED, MARKED OR ENCOUNTERED DURING CONSTRUCTION.
5. ALL SHRUBBERY AND PLANTS SHALL HAVE A NORMAL HABIT OF GROWTH, AND SHALL BE SOUND, HEALTHY, VIGOROUS AND FREE OF DISEASE, INSECTS, INSECT EGGS AND LARVAE.
6. ALL PLANTINGS AND RELATED WORK SHALL BE PERFORMED IN CONFORMANCE WITH PENNDOT PUBLICATION 408 SPECIFICATIONS, GOOD NURSERY AND LANDSCAPE PRACTICES AND TO OTHER STANDARDS AS ESTABLISHED BY THE MUNICIPALITY.
7. REQUIREMENTS FOR MEASUREMENT, BRANCHING, GRADING, QUALITY AND BURLAPPING OF ALL PLANT MATERIAL SHALL FOLLOW THE CODE OF STANDARDS RECOMMENDED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. IN THE AMERICAN STANDARD NURSERY STOCK, ANSIZ60, 1-1990, AS AMENDED.
8. COORDINATE THE PLACEMENT OF THE LANDSCAPING MATERIALS WITH WINDOW OR VENT LOCATIONS AND OTHER SITE IMPROVEMENTS.
9. PRE-EMERGENT HERBICIDE SHALL NOT BE USED ON GROUND COVER AREAS.
10. ALL DISTURBED AREAS NOT LANDSCAPED, PAVED OR BUILT UPON SHALL BE SEEDED, FERTILIZED AND MULCHED IN ACCORDANCE WITH PENNDOT FORMULA B MIX UNLESS OTHERWISE NOTED. REFER TO SEEDING SCHEDULE AND EROSION AND SEDIMENTATION CONTROL PLAN FOR OTHER REQUIREMENTS.
11. DECIDUOUS TREES THAT OVERHANG PEDESTRIAN OR VEHICULAR ROUTES SHALL BE MAINTAINED TO KEEP AWAY FROM GROUND TO A HEIGHT OF 8' FREE OF BRANCHES AND FOLIAGE.
12. CONTRACTOR TO PROVIDE CLEANUP, PROTECTION AND MAINTENANCE OF LANDSCAPED AREA UNTIL OWNER INSPECTION AND ACCEPTANCE.
13. WEED BARRIER MAT SHALL BE INSTALLED ON ALL LANDSCAPED AREAS EXCEPT ON GROUND COVER AREAS UNLESS OTHERWISE NOTED IN ACCORDANCE WITH PENNDOT PUBLICATION 408 SPECIFICATIONS.
14. QUANTITIES SHOWN ON THE PLAN SHALL GOVERN IF TOTALS DO NOT AGREE WITH PLANTINGS SCHEDULE QUANTITIES.
15. PLANTS SHALL BE MAINTAINED AND WARRANTED TO BE LIVING AND IN HEALTHY CONDITION FOR AT LEAST 12 MONTHS.

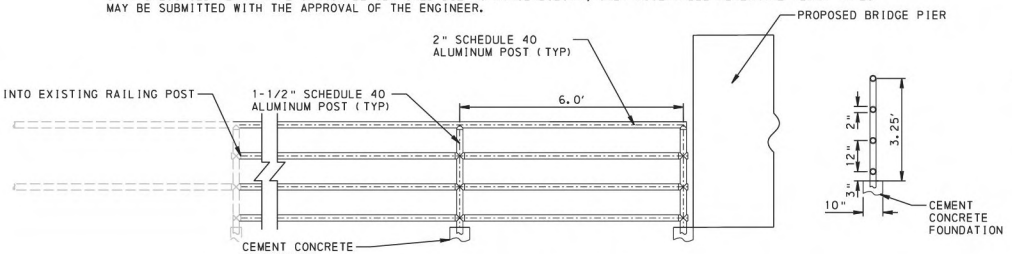
TREE PLANTING DETAIL

NOT TO SCALE

PLANTING SCHEDULE

ID	QTY.	BOTANICAL NAME	COMMON NAME	MATURE SIZE/GENERAL TYPE	PLANTING SIZE/CONDITIONS	ITEM NUMBER
DECIDUOUS TREES						
ZC	1	*ZELKOVA CARPINIFOLIA*	CAUCASIAN ELM	60'-115' HT./50' SPR./DECIDUOUS TREE	3" TO 5" CALIPER / B & B	9000-0021
MC	1	*MALUS CORONARIA*	AMERICAN CRABAPPLE	20'-35'HT./20'-30' SPR./DECIDUOUS TREE	1 1/2" TO 3" CALIPER / B & B	9000-0022

NOTES:
IF A SPECIFIED PLANT TYPE CANNOT BE OBTAINED DUE TO AVAILABILITY, ONLY ACCEPTABLE ALTERNATE PLANT TYPES MAY BE SUBMITTED WITH THE APPROVAL OF THE ENGINEER.



HERITAGE RAIL TRAIL FENCE REPLACEMENT

NOT TO SCALE
ITEM 9000-0007 HERITAGE RAIL TRAIL FENCE REPLACEMENT

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS

LEGEND

- HERITAGE RAIL TRAIL FENCE REPLACEMENT (ITEM NO. 9000-0006)
- TREE TO BE REMOVED (INCIDENTAL TO CLEARING AND GRUBBING MODIFIED (ITEM 4201-0001)
- TREE TO REMAIN

SCALE
0 10 20 FEET

MISCELLANEOUS DETAILS

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER MATTHEW JOSEPH LENA PE074288

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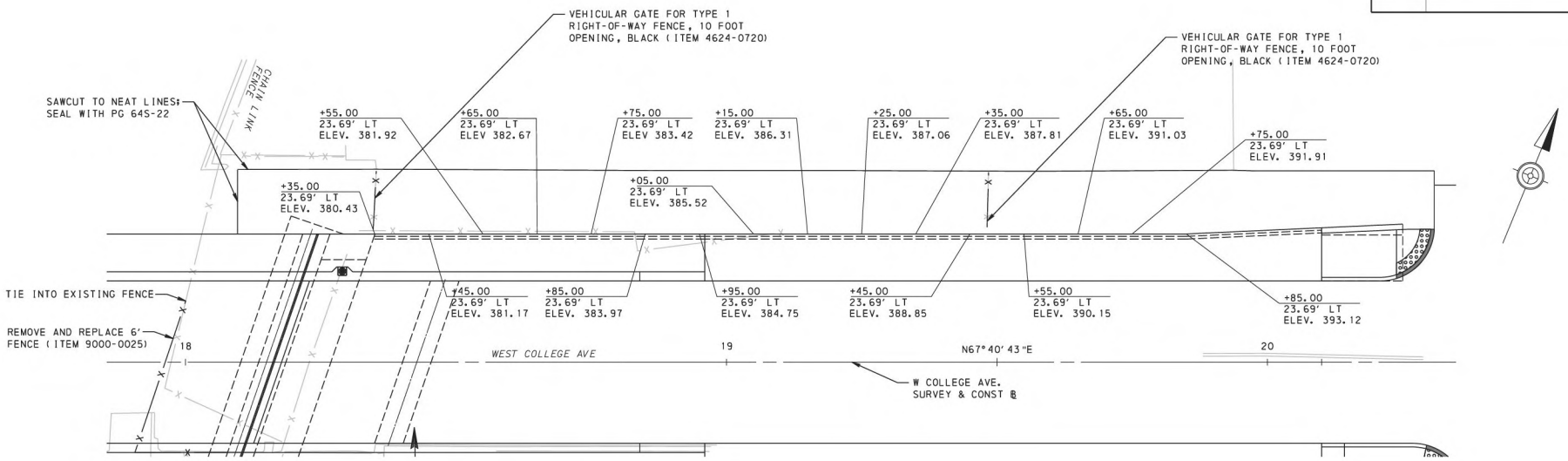
8-0	YORK	7301	BRG	9 OF 31
CITY OF YORK				

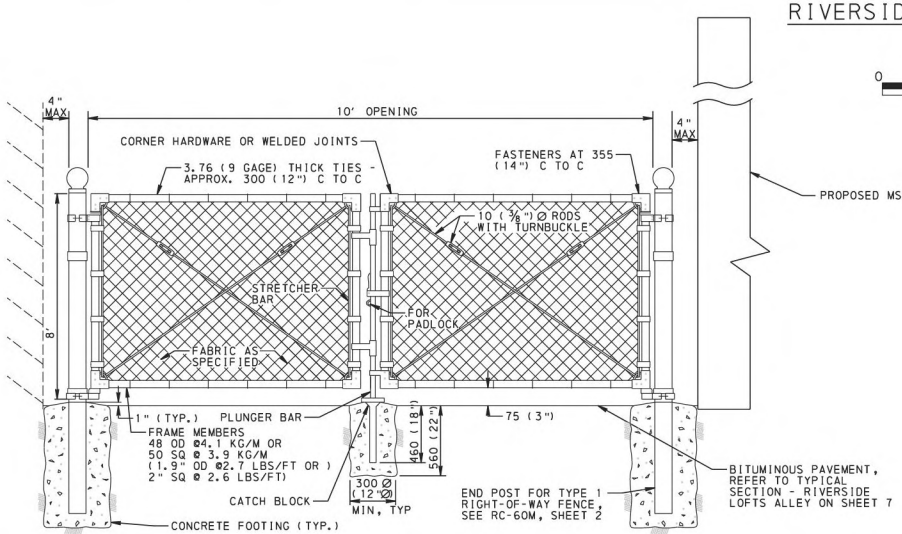
REVISION NUMBER	REVISIONS	DATE	BY



RIVERSIDE LOFTS ALLEY

SCALE

0 10 20 FEET



VEHICULAR GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 10 FOOT OPENING, BLACK

(GATE TO SWING 180°)

VEHICULAR GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 10-FOOT OPENING, BLACK (ITEM 4624-0720)
END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE, BLACK (ITEM 4624-0300)

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
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MISCELLANEOUS DETAILS

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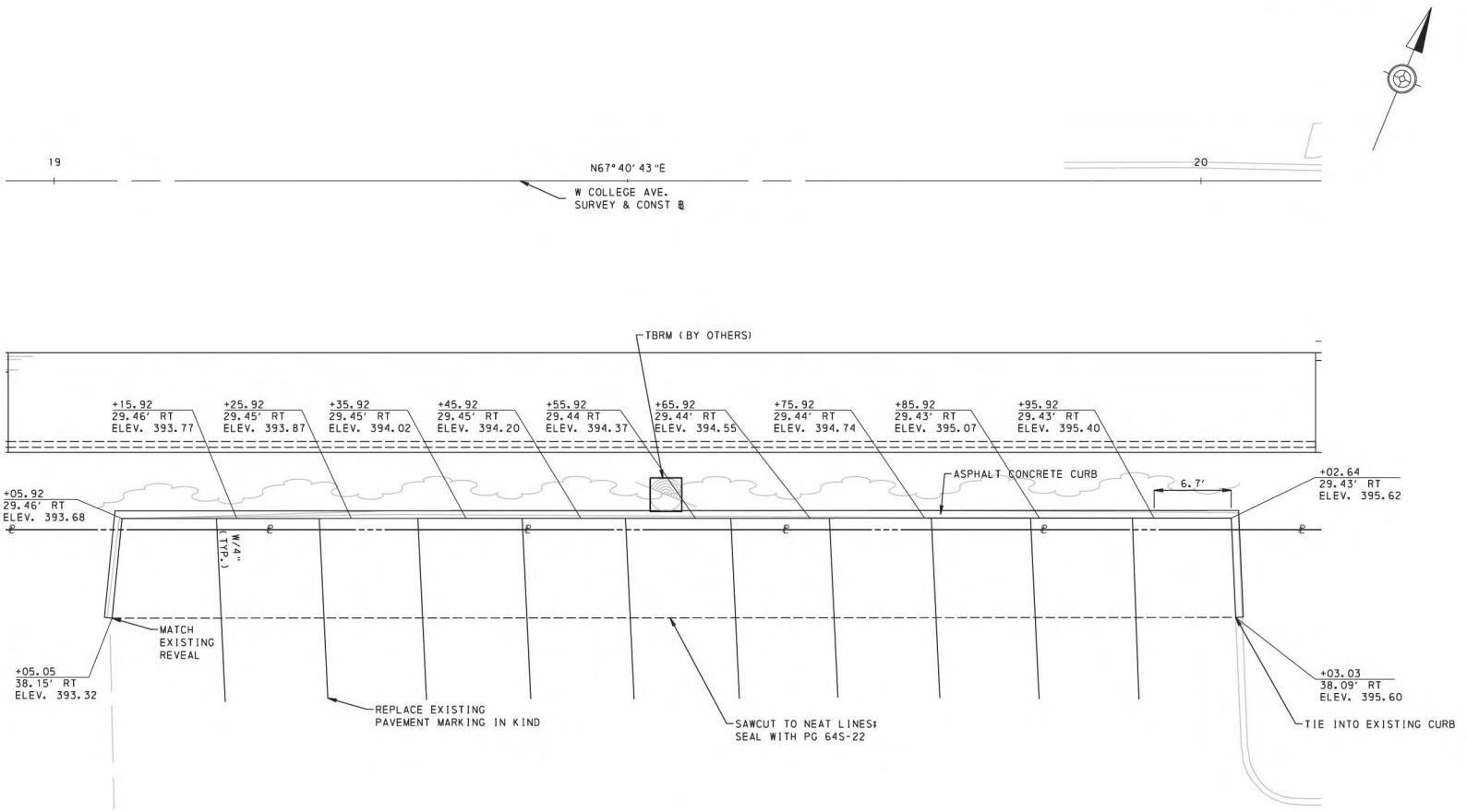
8-0	YORK	7301	BRG	10 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



SCALE

0 5 10 FEET

LEGEND

TBRM TO BE REMOVED

GREEN OAKS PARKING LOT REHABILITATION

SEE TYPICAL SECTION FOR ELEV VIEW

MISCELLANEOUS DETAILS

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

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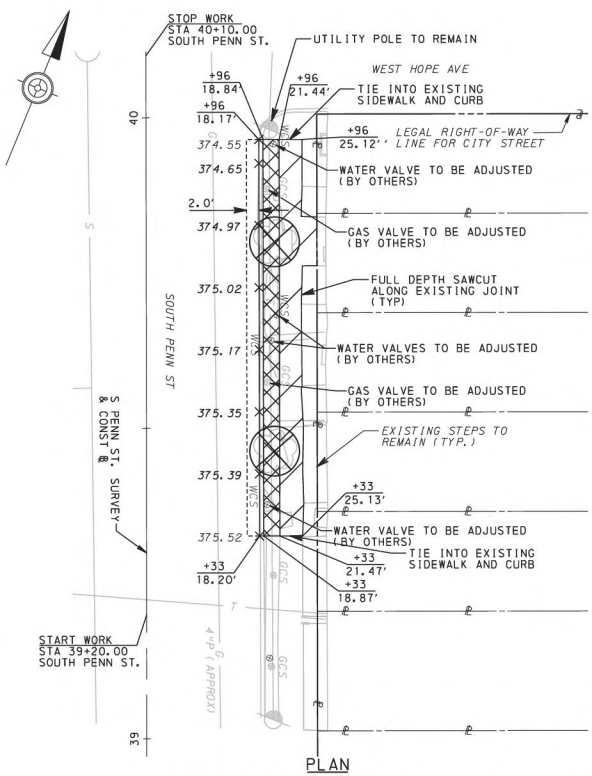
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



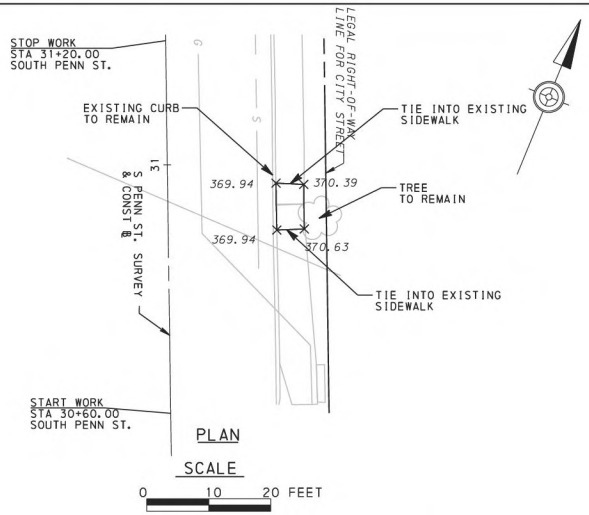
PLAN

EXISTING WRAPPED ELECTRIC SERVICE LINE RUNS THROUGH TREES; CONTRACTOR TO USE CAUTION DURING TREE REMOVAL.

DISTANCES BETWEEN SPOT ELEVATIONS ARE 10 FT UNLESS OTHERWISE NOTED

SCALE

0 10 20 FEET

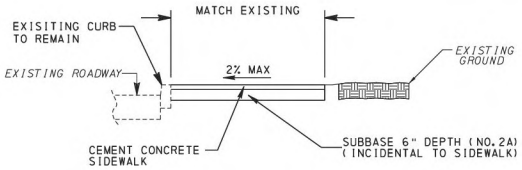


PLAN

SCALE

0 10 20 FEET

SOUTH PENN ST AT STONE AVE SIDEWALK REPLACEMENT

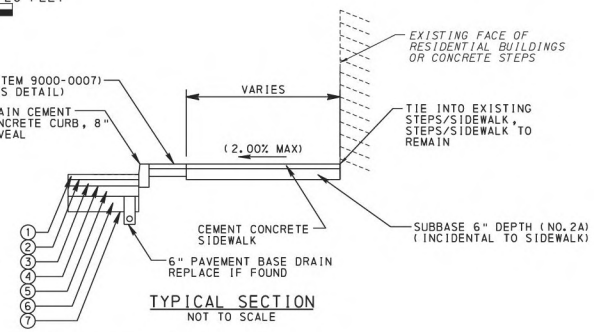


TYPICAL SECTION

NOT TO SCALE

PAVEMENT LEGEND

1. SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 ½" DEPTH, SRL-H
2. ASPHALT TACK COAT
3. SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 ½" DEPTH
4. ASPHALT TACK COAT
5. SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH (OR MATCH EXISTING WHICHEVER IS GREATER)
6. SUBBASE 6" DEPTH (NO. 2A) (OR MATCH EXISTING WHICHEVER IS GREATER
7. GEOTEXTILE CLASS 4, TYPE A



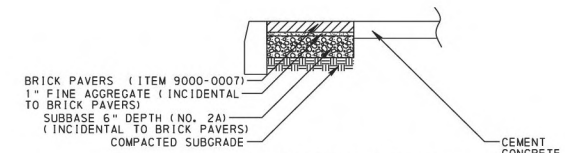
TYPICAL SECTION

NOT TO SCALE

SOUTH PENN ST AT WEST HOPE AVE SIDEWALK REPLACEMENT

LEGEND

- PROPOSED SIDEWALK
- BRICK PAVERS (ITEM 9000-0007)
- SELECTIVE TREE REMOVAL (ITEM 4810-0052)
- 369.94 × EXISTING ELEVATION (ACTUAL ELEVATION MAY VARY)



BRICK PAVERS DETAIL

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER MATTHEW JOSEPH LENA PE074288

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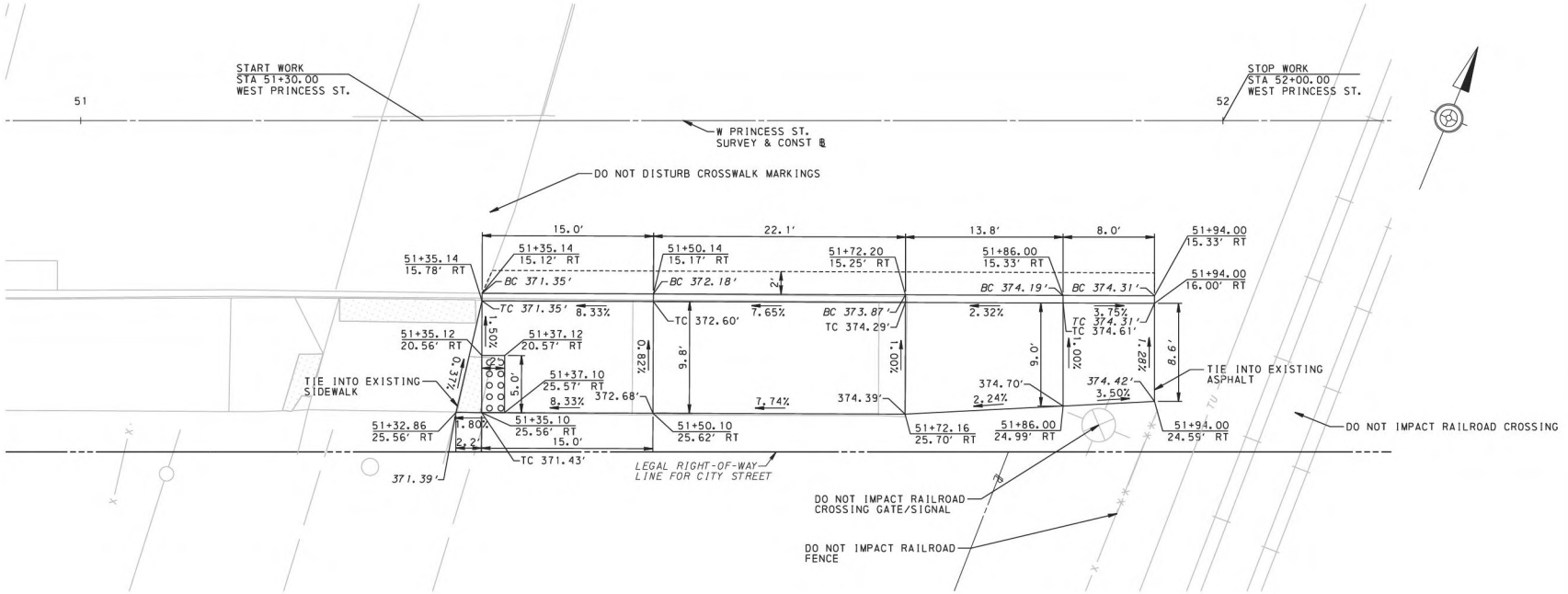
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



CURB RAMP AT TRAIL CROSSING OF PRINCESS STREET

LEGEND

- DETACTABLE WARNING SURFACE
- 123.45' — PROPOSED ELEVATION
- BC 123.45' — EXISTING BOTTOM OF CURB ELEVATION (ACTUAL ELEVATION MAY VARY)
- TC 123.45' — TOP OF CURB ELEVATION
- SLOPE DIRECTION (ARROW POINTS FROM HIGH TO LOW ELEVATION)
- -------- PAVEMENT SAWCUT AND SEAL WITH PG 64S-22

SCALE

0 5 10 FEET

MISCELLANEOUS DETAILS

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
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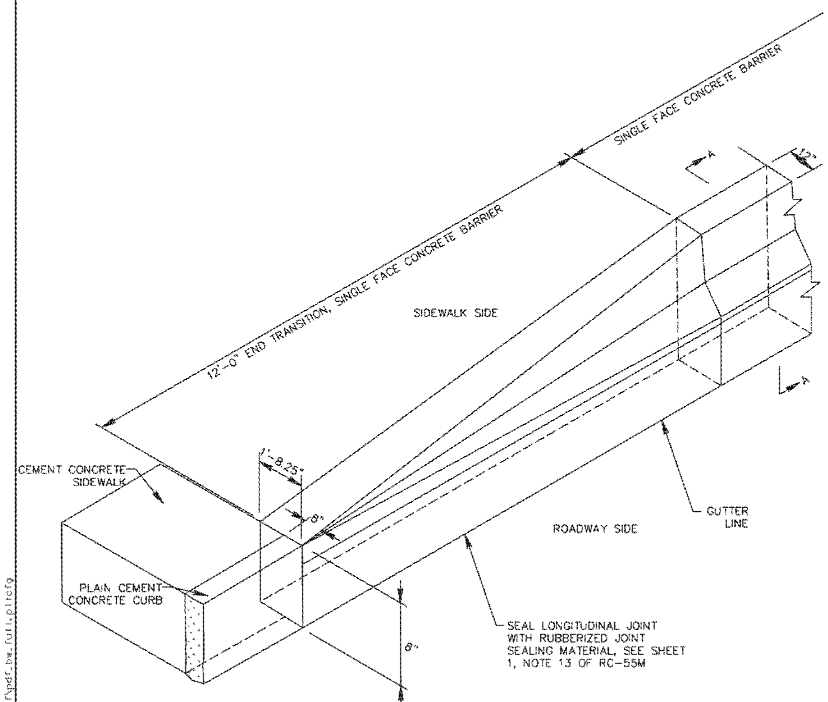
PE074288

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	13 OF 31
CITY OF YORK				

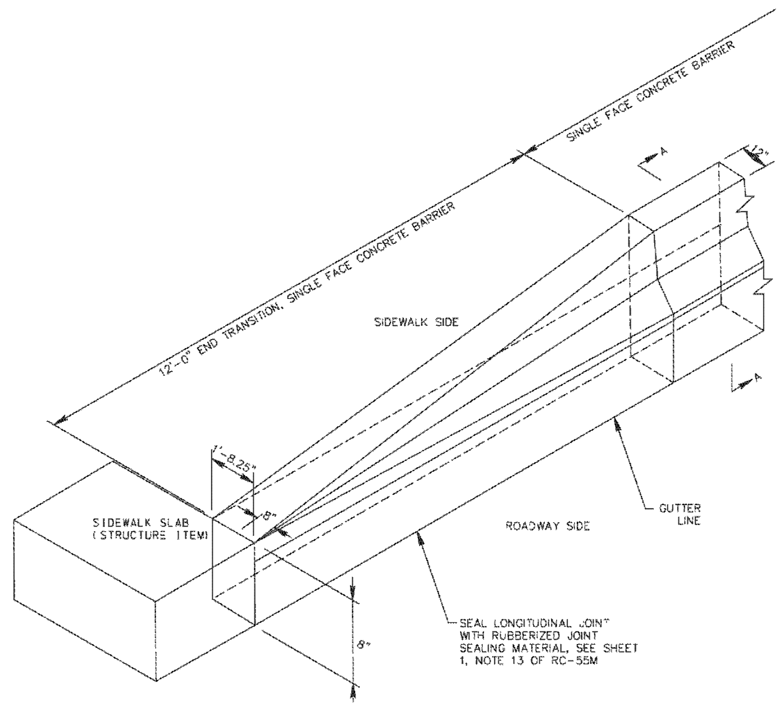
REVISION NUMBER	REVISIONS	DATE	BY



ORTHOGRAPHIC VIEW - WING A & B BRIDGE BARRIER END TRANSITION ITEM (STRUCTURE ITEM)

NOT TO SCALE

SEE RC-58M FOR SECTION A-A



ORTHOGRAPHIC VIEW - WING C & D BRIDGE BARRIER END TRANSITION (STRUCTURE ITEM)

NOT TO SCALE

SEE RC-58M FOR SECTION A-A

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074285

MISCELLANEOUS DETAILS

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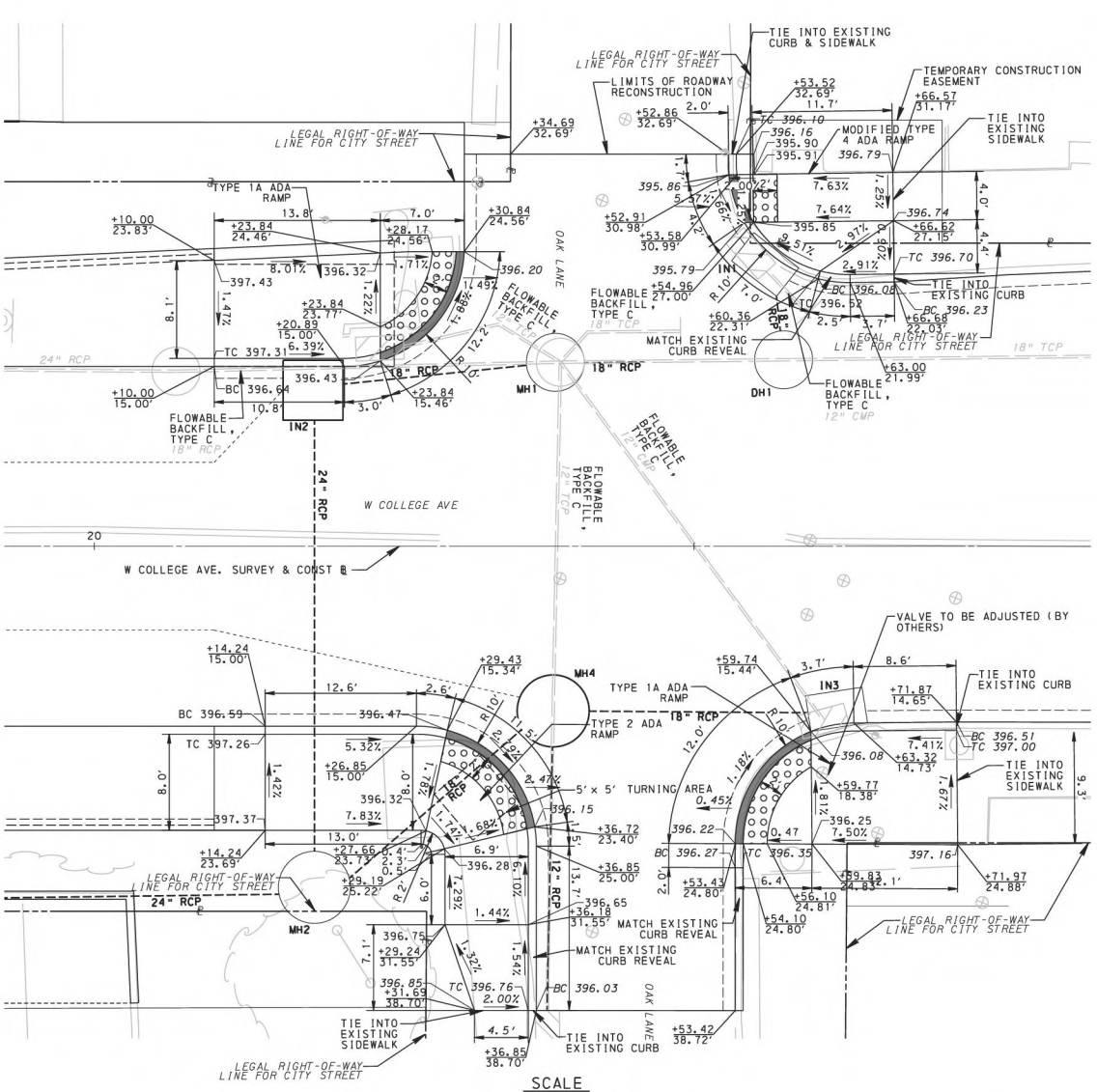
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



SCALE

0 5 10 FEET

LEGEND

- DETECTABLE WARNING SURFACE
- DEPRESSED CURB
- 1234.56 EXISTING ELEVATION (ACTUAL ELEVATION MAY VARY)
- 1234.56 PROPOSED ELEVATION
- BC 1234.56 BOTTOM OF CURB ELEVATION
- TC 1234.56 TOP OF CURB ELEVATION
- SLOPE DIRECTION (ARROW POINTS FROM HIGH TO LOW ELEVATION)

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MATTHEW JOSEPH LENA — ENGINEER — PE074288

MISCELLANEOUS DETAILS

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SPM - SIGNING AND PAVEMENT MARKING PLANPLAN
WTR - UTILITY RELOCATION PLAN - WATER
STR - STRUCTURE PLAN (L-435))

SUMMARY

HLP - HIGHWAY LIGHTING PLAN

♦ - SEE SPECIAL PROVISIONS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	15 OF 31

QUANTITY	ITEM NO / UNIT	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
X	4201 0001 / LS	CLEARING AND GRUBBING, TREE/STEP REMOVAL ♦		NO TAB
1406	0203 0001 / CY	CLASS 1 EXCAVATION		17-20
37	4203 0003 / CY	CLASS 1A EXCAVATION, UNSUITABLE MATERIAL (AS DIRECTED) ♦		17-20
374	0203 0006 / LF	SAW CUTTING		17-20
242	0205 0100 / CY	FOREIGN BORROW EXCAVATION		17-20
2074	4205 0266 / CY	SELECTED BORROW EXCAVATION ROCK, CLASS R-6, TEMPORARY CAUSEWAY ♦		25-26
714	0205 0268 / CY	SELECTED BORROW EXCAVATION ROCK, CLASS R-8		17-20
381	4205 0268 / CY	SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH ROCK, CLASS R-5 ♦		17-20
459	4205 0281 / CY	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1, TEMPORARY CAUSEWAY ♦		25-26
277	0205 0285 / CY	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 57		17-20
473	0212 0001 / LF	GEOTEXTILE, CLASS 1		21-24
3722	0212 0014 / SY	GEOTEXTILE, CLASS 4, TYPE A		17-20, 21-24, 25-26
22	0220 0020 / CY	FLOWABLE BACKFILL, TYPE C		21-24
1937	0313 0320 / SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH		17-20
254	0313 0322 / SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH		17-20
775	4350 0104 / SY	SUBBASE 4" DEPTH (NO. 2A), TEMPORARY HRT ACCESS ROUTE ♦		17-20
2324	0350 0106 / SY	SUBBASE 6" DEPTH (NO. 2A)		17-20
31	0350 0120 / CY	SUBBASE (NO. 2A)		17-20
2191	0413 0192 / SY	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H		17-20
1552	0413 6035 / SY	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH		17-20
3743	0460 0001 / SY	ASPHALT TACK COAT		17-20
27	0601 7305 / LF	12" REINFORCED CONCRETE PIPE, TYPE B, 30' - 1.5' FILL		21-24
110	0601 7313 / LF	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL		21-24
37	0601 7326 / LF	24" REINFORCED CONCRETE PIPE, TYPE B, 10' - 2' FILL		21-24
221	0601 7327 / LF	24" REINFORCED CONCRETE PIPE, TYPE B, 15' - 2' FILL		21-24
1	0605 1300 / EACH	CLEANING DRAINAGE STRUCTURES		21-24
5	0605 2401 / SET	MANHOLE FRAME AND COVER		21-24
1	0605 2620 / EACH	TYPE D-W ENDWALL		21-24
1	0605 2730 / SET	TYPE M CONCRETE TOP UNIT AND GRATE		21-24
3	0605 2731 / SET	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE		21-24
2	0605 2850 / EACH	STANDARD INLET BOX, HEIGHT < /= 10'		21-24
2	0605 2855 / EACH	TYPE 4 INLET BOX, HEIGHT > 10' AND < /= 20'		21-24
2	0605 3011 / EACH	TYPE 4 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'		21-24
1	0605 3012 / EACH	TYPE 4 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'		21-24
1	0605 3021 / EACH	TYPE 5 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'		21-24
1	0605 3022 / EACH	TYPE 5 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'		21-24
X	0608 0001 / LS	MOBILIZATION		NO TAB
X	0609 0003 / LS	INSPECTOR'S FIELD OFFICE AND INSPECTION FACILITIES, TYPE B		NO TAB
X	0609 0009 / LS	EQUIPMENT PACKAGE ♦		NO TAB
473	0610 7002 / LF	6" PAVEMENT BASE DRAIN		21-24
64	0612 0001 / LF	SUBGRADE DRAINS		21-24
63	0615 0022 / LF	6" SUBSURFACE DRAIN OUTLETS		21-24
2	0615 0050 / EACH	SUBSURFACE DRAIN OUTLET ENDWALL (SLOPED)		21-24
2	0615 0066 / EACH	66" RED SUBSURFACE DRAIN OUTLET MARKER		21-24
1	0618 0020 / EACH	CONCRETE COLLAR FOR 12" PIPE EXTENSION		21-24
1	0618 0022 / EACH	CONCRETE COLLAR FOR 18" PIPE EXTENSION		21-24
4	0620 0400 / EACH	TERMINAL SECTION, SINGLE		17-20
50	0620 1600 / LF	TYPE 31-S GUIDE RAIL		17-20
4	4624 0300 / EACH	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE, BLACK ♦		17-20
2	4624 0720 / EACH	VEHICULAR GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 10-FOOT OPENING, BLACK ♦		17-20
444	0630 0045 / LF	PLAIN CEMENT CONCRETE CURB, 8" HEIGHT, INCLUDING REMOVAL OF EXISTING CURB		17-20
117	0636 0001 / LF	ASPHALT CONCRETE CURB		17-20
306	0676 0001 / SY	CEMENT CONCRETE SIDEWALK		17-20
X	0686 0050 / LS	CONSTRUCTION SURVEYING, TYPE D		NO TAB
X	0688 0020 / LS	MICROCOMPUTER, TYPE C		NO TAB
X	0689 0003 / LS	CPM SCHEDULE		NO TAB
1000	0690 0001 / DOLLA	INTERNAL FACILITATION		NO TAB
EITHER 75	4695 0004 / SF	DETECTABLE WARNING SURFACE, POLYMER COMPOSITE, COLOR ♦	1	17-20
OR 75	4695 0002 / SF	DETECTABLE WARNING SURFACE, CAST IRON, COLOR ♦	1	17-20
OR 75	4695 0003 / SF	DETECTABLE WARNING SURFACE, POLYMER CONCRETE, COLOR ♦	1	17-20
492	0802 0001 / CY	TOPSOIL FURNISHED AND PLACED		25-26
174	0804 0025 / LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH		25-26
15	0804 0027 / LB	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH		25-26
27	0804 0032 / LB	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH		25-26
1143	0806 0113 / SY	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D		25-26
454	0810 0026 / LF	TREE TRIMMING TO A MAX HEIGHT OF 20'		17-20
2	4810 0052 / EACH	SELECTIVE TREE REMOVAL, STUMP REMOVAL ♦		17-20
1119	4811 0003 / LF	TEMPORARY PROTECTIVE FENCE, ORANGE ♦		25-26
1000	0845 0001 / DOLLA	UNFORESEEN WATER POLLUTION CONTROL		NO TAB
3	0849 0010 / EACH	ROCK CONSTRUCTION ENTRANCE		25-26
1	0849 0020 / EACH	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK		25-26
24	0851 0003 / SY	ROCK APRON		21-24
2	0855 0003 / EACH	PUMPED WATER FILTER BAG		25-26
2	0855 0004 / EACH	REPLACEMENT PUMPED WATER FILTER BAG		25-26
4	0860 0002 / EACH	INLET FILTER BAG FOR TYPE C INLET		25-26
431	0867 0012 / LF	COMPOST FILTER SOCK, 12" DIAMETER		25-26
114	0867 0022 / LF	COMPOST FILTER SOCK, 24" DIAMETER		25-26
X	0901 0001 / LS	MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION ♦		NO TAB
1648	0901 0320 / LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW		SPM
1620	0901 0330 / LF	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE		SPM
2	0910 0001 / EACH	JUNCTION BOXES J.B.-1		HLP
2	0910 0002 / EACH	JUNCTION BOXES J.B.-2		HLP
4	0910 0154 / EACH	POLE FOUNDATION, TYPE FC		HLP
3	4910 0154 / EACH	POLE FOUNDATION, TYPE FC, HERITAGE RAIL TRAIL ♦		HLP
EITHER 3	4910 0286 / EACH	STEEL LIGHTING POLE WITH 10-FOOT BRACKET ARM (35-FOOT MOUNTING HEIGHT) TYPE A COLOR ♦	3	HLP
OR 3	4910 1086 / EACH	ALUMINUM LIGHTING POLE WITH 10-FOOT BRACKET ARM (35-FOOT MOUNTING HEIGHT) TYPE A COLOR ♦	3	HLP
EITHER 6	4910 0290 / EACH	STEEL LIGHTING POLE WITH 15-FOOT BRACKET ARM (35-FOOT MOUNTING HEIGHT) TYPE A COLOR ♦	4	HLP
OR 6	4910 1090 / EACH	ALUMINUM LIGHTING POLE WITH 15-FOOT BRACKET ARM (35-FOOT MOUNTING HEIGHT) TYPE A COLOR ♦	4	HLP
20	0910 4113 / LF	AWG 2 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR		HLP
8000	0910 4116 / LF	AWG 8 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR		HLP
750	0910 5055 / LF	2" DIRECT BURIAL CONDUIT		HLP
750	0910 6000 / LF	TRENCH		HLP
1	4910 7020 / EACH	COMPLETE POWER SUPPLY SYSTEM MODIFIED ♦		HLP

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/3/2025 10:29:53 AM

SPM - SIGNING AND PAVEMENT MARKING PLANPLAN
WTR - UTILITY RELOCATION PLAN - WATER
STR - STRUCTURE PLAN (L-435))
♦ - SEE SPECIAL PROVISIONS

SUMMARY

HLP - HIGHWAY LIGHTING PLAN

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	16 OF 31

QUANTITY	ITEM NO / UNIT	DESCRIPTION	DESIGN NO	FOR TAB SEE SHEET
	0910 7210 / LS	TESTING OF ENTIRE LIGHTING SYSTEM		HLP
7	0931 0001 / SF	POST MOUNTED SIGNS, TYPE B		SPM
30	0936 0200 / SF	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS		SPM
2	0941 0001 / EACH	RESET POST MOUNTED SIGNS, TYPE B		SPM
1620	0962 1000 / LF	4" WHITE WATERBORNE PAVEMENT MARKINGS		SPM
1648	0962 1005 / LF	4" YELLOW WATERBORNE PAVEMENT MARKINGS		SPM
4	0971 0001 / EACH	REMOVE POST MOUNTED SIGNS, TYPE B		SPM
4	0975 0001 / EACH	REMOVE POST MOUNTED SIGNS, TYPE F		SPM
	1018 0001 / LS	REMOVAL OF EXISTING BRIDGE		NO TAB
EITHER	8110 0001 / LS	BRIDGE STRUCTURE, AS DESIGNED, L-435	2	STR
AND 424671	1002 0052 / LB	REINFORCEMENT BARS, EPOXY COATED	2	STR
AND 410	1005 1850 / LF	STEEL HP14X117 PRODUCTION PILE	2	STR
AND 11	1005 2050 / EACH	STEEL HP14X117 PILE TIP REINFORCEMENT (HEAVY DUTY)	2	STR
AND 3	1005 1750 / EACH	STEEL HP14X117 TEST PILE	2	STR
AND 4100	1005 1420 / DOLLA	PREDRILLING FOR UNFORESEEN OBSTRUCTIONS, EARTH DRILLING	2	STR
AND 2000	1005 1430 / DOLLA	PREDRILLING FOR UNFORESEEN OBSTRUCTIONS, OBSTRUCTION DRILLING	2	STR
AND 5000	9005 2700 / DOLLA ♦	MOBILIZATION FOR PRE-DRILLING FOR UNFORESEEN OBSTRUCTIONS	2	STR
AND 694	9005 0018 / LF ♦	EXPLORATORY AIR TRACK DRILLING	2	STR
AND 9735	1007 0350 / LF	MICROPILES 9 5/8" DIAMETER, PLAIN STEEL	2	STR
AND 5	1007 0200 / EACH	MICROPILES VERIFICATION LOAD TEST	2	STR
AND 15	1007 0210 / EACH	MICROPILES PROOF LOAD TEST	2	STR
AND 650	9205 0100 / TON ♦	FOUNDATION STABILIZATION WITH COURSE AGGREGATE	2	STR
AND 402	9204 0100 / CY ♦	CLASS 3 EXCAVATION, OVER EXCAVATION	2	STR
AND 85	4220 0020 / CY ♦	FLOWABLE BACKFILL, TYPE C IN ABANDONED PIPE	2	STR
AND 200	1091 0331 / LF	EPOXY INJECTION CRACK SEAL	2	STR
AND	8621 0001 / LS ♦	MECHANICALLY STABILIZED RETAINING WALLS (AS DESIGNED)	2	STR
OR	8000 0001 / LS ♦	PRESTRESSED CONCRETE BRIDGE STRUCTURE	2	STR
OR	8200 0001 / LS ♦	OTHER BRIDGE STRUCTURE	2	STR
	9000 0001 / LS ♦	AIDS TO NAVIGATION (ATON) PLAN		NO TAB
485	9000 0002 / LF ♦	TEMPORARY STREAM DIVERSION		25-26
	9000 0003 / LS ♦	TEMPORARY SEWERLINE PROTECTION SYSTEM		NO TAB
	9000 0004 / LS ♦	PRE AND POST CONSTRUCTION INSPECTION		NO TAB
57	9000 0005 / LF ♦	REMOVE AND RESET 4' CHAIN LINK FENCE		17-20
134	9000 0006 / LF ♦	HERITAGE RAIL TRAIL FENCE REPLACEMENT		17-20
19	9000 0007 / SY ♦	BRICK PAVERS		17-20
	9000 0008 / LS ♦	PROTECTIVE SHIELDING		NO TAB
	9000 0009 / LS ♦	TEMPORARY PEDESTRIAN BRIDGE WITH OVERHEAD SHIELDING		NO TAB
1	9000 0010 / EACH ♦	RESET GREEN OAKS SIGN		SPM
	9000 0011 / LS ♦	TEMPORARY BUILDING PROTECTION SYSTEM - RIVERSIDE LOFTS		NO TAB
20000	9000 0012 / DOLLA ♦	UNFORSEEN UTILITY REHABILITATION		NO TAB
	9000 0013 / LS ♦	PHOTO AND VIDEO DOCUMENTATION		NO TAB
43	9000 0014 / LF ♦	TEMPORARY 12" REINFORCED CONCRETE PIPE		21-24
	9000 0015 / LS ♦	WASTE MANAGEMENT PLAN (WMP)		NO TAB
	9000 0016 / LS ♦	HEALTH AND SAFETY PLAN (HASP)		NO TAB
	9000 0017 / LS ♦	FILL MANAGEMENT		NO TAB
32	9000 0018 / EACH ♦	SOLIDS SAMPLING (LANDFILL CHARACTERIZATION)		NO TAB
10000	9000 0019 / DOLLA ♦	OFF-SITE DISPOSAL OF REGULATED SOILS		NO TAB
	9000 0020 / LS ♦	VIBRATION MONITORING		NO TAB
1	9000 0021 / EACH ♦	AMERICAN HORNBEAM (2" CAL. B&B)		17-20
1	9000 0022 / EACH ♦	AUTUMN BRILLIANCE SERVICEBERRY (7'-8' HT. B&B)		17-20
362	9000 0023 / LF ♦	6" PERFORATED PIPE		21-24
	9000 0024 / LS ♦	JACK AND BORE 24" RCP		21-24
47	9000 0025 / LF ♦	REMOVE AND REPLACE 6' FENCE		17-20
37	9000 0026 / LF ♦	REMOVE AND REPLACE FENCE, WESTERN BANK		17-20
1	9000 0027 / EACH ♦	REMOVE AND REPLACE PEDESTRIAN GATE		17-20
30000	9000 0351 / DOLLA ♦	DIRECT HIRE FOR PROTECTIVE SERVICES (FLAGGING) FOR GENESEE & WYOMING RAILROAD		NO TAB
655	9000 1000 / LF ♦	20" STEEL CASING PIPE		WTR
20	9000 1001 / EACH ♦	WATER UTILITY HANGER SUPPORT		WTR
2	9000 1002 / EACH ♦	20" WATER MAIN - CUT AND CAP		WTR
3	9000 8001 / EACH ♦	REMOVE AND RESET LIGHTING POLE UNDER BRIDGE		HLP
9	9000 8002 / EACH ♦	LED LUMINAIRE		HLP
	9203 0001 / LS ♦	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM		17-20

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983
MPMS: 110280
ECMS: 110280
12/3/2025 10:29:53 AM

TABULATION OF QUANTITIES

ROADWAY

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	17 OF 31

0203 0001 CY	4203 0003 CY	0203 0006 LF	0205 0100 CY	0205 0268 CY	4205 0268 CY	0205 0285 CY	0212 0014 SY	0313 0320 SY	0313 0322 SY	4350 0104 SY	0350 0106 SY	0350 0120 CY	0413 0192 SY	0413 6035 SY	0460 0001 SY	0620 0400 EACH	0620 1600 LF	4624 0300 EACH	4624 0720 EACH	0630 0045 LF	0636 0001 LF	0676 0001 SY	4695 (+) SF	0810 0026 LF	4810 0052 EACH	9000 0005 LF	REMARKS	SIDE	STATIONS
CLASS 1 EXCAVATION	CLASS 1A EXCAVATION, UNSUITABLE MATERIAL (AS DIRECTED)	SAW CUTTING	FOREIGN BORROW EXCAVATION	SELECTED BORROW EXCAVATION ROCK, CLASS R-8	SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH ROCK, CLASS R-5	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 57	GEOTEXTILE, CLASS 4, TYPE A	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH	SUBBASE 4" DEPTH (NO. 2A), TEMPORARY HRT ACCESS ROUTE	SUBBASE 6" DEPTH (NO. 2A)	SUBBASE (NO. 2A)	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	ASPHALT TACK COAT	TERMINAL SECTION, SINGLE	TYPE 31-S GUIDE RAIL	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE, BLACK	VEHICULAR GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 10-FOOT OPENING, BLACK	PLAIN CEMENT CONCRETE CURB, 8" HEIGHT, INCLUDING REMOVAL OF EXISTING CURB	ASPHALT CONCRETE CURB	CEMENT CONCRETE SIDEWALK	DESIGN NO. 1	TREE TRIMMING TO A MAX HEIGHT OF 20'	SELECTIVE TREE REMOVAL, STUMP REMOVAL	REMOVE AND RESET 4' CHAIN LINK FENCE	ITEM NUMBER UNIT		
																											GROUPING TITLE HERE		
	37																										ENTIRE PROJECT	LT / RT	12+48.00 to 22+00.00
101		29	47			16	269	313			393		313	313	626					162		132						LT / RT	12+98.00 to 13+92.22
																4	50											LT / RT	13+50.36 to 13+79.00
615																											CRANE PAD	LT	13+79.93 to 14+49.88
																												RT	13+91.14 to 14+16.75
2		28					7	7			7		7	7	14					28								LT	14+02.06 to 14+30.62
213																											TEMP CAUSEWAY	LT	14+06.36 to 15+88.21
				434																								LT / RT	14+17.13 to 14+95.31
			131	211																							EMBANKMENT REHAB	LT	14+69.60 to 15+41.17
																										57		LT	14+90.44 to 15+07.42
					381																							LT / RT	14+97.83 to 16+32.17
																												RT	16+69.19 to 17+06.10
																												LT / RT	16+89.28 to 17+19.70
81							254		254		254		254		254												HRT TRAIL	LT / RT	16+89.76 to 17+47.69
										775		31															TEMPORARY HRT ACCESS ROUTE	LT / RT	17+01.90 to 19+47.32
																												RT	17+21.38
																												RT	17+21.58
																												RT	17+29.38
																												LT	17+50.43
																												LT	17+50.43
																								454				LT	17+53.37 to 19+09.80
				69																								LT / RT	17+90.67 to 18+18.58
																												LT / RT	18+00.06 to 18+07.80
107		12					291	291			291		291		291			4	2								RIVERSIDE LOFTS ALLEY	LT	18+04.88 to 20+30.85
223		77	64			261	649	1204			1257		1204	1204	2408					131		77	65					LT / RT	18+42.78 to 21+50.10
27		98					94	94			94		94		94						117						GREEN OAKS PARKING LOT	RT	19+04.39 to 20+03.70
1																						4					PENN STREET (SOUTH)	RT	30+89.26 to 30+96.82

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER MATTHEW JOSEPH LENA PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:09:32 PM

TABULATION OF QUANTITIES

ROADWAY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	18 OF 31

HERITAGE RAIL TRAIL FENCE REPLACEMENT	BRICK PAVERS	AMERICAN HORNBEAM (2" CAL. B&B)	AUTUMN BRILLIANCE SERVICEBERRY (7'-8' HT. B&B)	REMOVE AND REPLACE 6' FENCE	REMOVE AND REPLACE FENCE, WESTERN BANK	REMOVE AND REPLACE PEDESTRIAN GATE	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM	REMARKS	SIDE	STATIONS
9000 0006 LF	9000 0007 SY	9000 0021 EACH	9000 0022 EACH	9000 0025 LF	9000 0026 LF	9000 0027 EACH	9203 0001 LS	ITEM NUMBER UNIT		
								GROUPING TITLE HERE		
								ENTIRE PROJECT	LT / RT	12+48.00 to 22+00.00
									LT / RT	12+98.00 to 13+92.22
									LT / RT	13+50.36 to 13+79.00
								CRANE PAD	LT	13+79.93 to 14+49.88
					37	1			RT	13+91.14 to 14+16.75
									LT	14+02.06 to 14+30.62
								TEMP CAUSEWAY	LT	14+06.36 to 15+88.21
									LT / RT	14+17.13 to 14+95.31
								EMBANKMENT REHAB	LT	14+69.60 to 15+41.17
									LT	14+90.44 to 15+07.42
									LT / RT	14+97.83 to 16+32.17
							X		RT	16+69.19 to 17+06.10
134									LT / RT	16+89.28 to 17+19.70
								HRT TRAIL	LT / RT	16+89.76 to 17+47.69
								TEMPORARY HRT ACCESS ROUTE	LT / RT	17+01.90 to 19+47.32
			1						RT	17+21.38
									RT	17+21.58
									RT	17+29.38
									LT	17+50.43
		1							LT	17+50.43
									LT	17+53.37 to 19+09.80
									LT / RT	17+90.67 to 18+18.58
				47					LT / RT	18+00.06 to 18+07.80
								RIVERSIDE LOFTS ALLEY	LT	18+04.88 to 20+30.85
									LT / RT	18+42.78 to 21+50.10
								GREEN OAKS PARKING LOT	RT	19+04.39 to 20+03.70
								PENN STREET (SOUTH)	RT	30+89.26 to 30+96.82

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

TABULATION OF QUANTITIES

ROADWAY

(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	19 OF 31

CLASS 1 EXCAVATION	CLASS 1A EXCAVATION, UNSUITABLE MATERIAL (AS DIRECTED)	SAW CUTTING	FOREIGN BORROW EXCAVATION	SELECTED BORROW EXCAVATION ROCK, CLASS R-8	SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH ROCK, CLASS R-5	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 57	GEOTEXTILE, CLASS 4, TYPE A	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 3" DEPTH	SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH	SUBBASE 4" DEPTH (NO. 2A), TEMPORARY HRT ACCESS ROUTE	SUBBASE 6" DEPTH (NO. 2A)	SUBBASE (NO. 2A)	SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1 1/2" DEPTH, SRL-H	SUPERPAVE ASPHALT MIXTURE DESIGN, BINDER COURSE, PG 64S-22, < 0.3 MILLION ESALS, 19.0 MM MIX, 2 1/2" DEPTH	ASPHALT TACK COAT	TERMINAL SECTION, SINGLE	TYPE 31-S GUIDE RAIL	END POSTS FOR TYPE 1 RIGHT-OF-WAY FENCE, BLACK	VEHICULAR GATE FOR TYPE 1 RIGHT-OF-WAY FENCE, 10-FOOT OPENING, BLACK	PLAIN CEMENT CONCRETE CURB, 8" HEIGHT, INCLUDING REMOVAL OF EXISTING CURB	ASPHALT CONCRETE CURB	CEMENT CONCRETE SIDEWALK	DESIGN NO. 1	TREE TRIMMING TO A MAX HEIGHT OF 20'	SELECTIVE TREE REMOVAL, STUMP REMOVAL	REMOVE AND RESET 4' CHAIN LINK FENCE	REMARKS	SIDE	STATIONS
0203 0001 CY	4203 0003 CY	0203 0006 LF	0205 0100 CY	0205 0268 CY	4205 0268 CY	0205 0285 CY	0212 0014 SY	0313 0320 SY	0313 0322 SY	4350 0104 SY	0350 0106 SY	0350 0120 CY	0413 0192 SY	0413 6035 SY	0460 0001 SY	0620 0400 EACH	0620 1600 LF	4624 0300 EACH	4624 0720 EACH	0630 0045 LF	0636 0001 LF	0676 0001 SY	4695 (+) SF	0810 0026 LF	4810 0052 EACH	9000 0005 LF	ITEM NUMBER UNIT		
13		68					15	15			15		15	15	30					64		29					PENN STREET (NORTH)	RT	39+32.64 to 39+96.46
																									1			RT	39+46.32
																									1			RT	39+80.01
23		62					13	13			13		13	13	26					59		64	10				WEST PRINCESS STREET	RT	51+32.86 to 51+94.00
1406	37	374	242	714	381	277	1592	1937	254	775	2324	31	2191	1552	3743	4	50	4	2	444	117	306	75	454	2	57	TOTALS		

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:09:32 PM

TABULATION OF QUANTITIES

ROADWAY

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	20 OF 31

HERITAGE RAIL TRAIL FENCE REPLACEMENT	BRICK PAVERS	AMERICAN HORNBEAM (2" CAL. B&B)	AUTUMN BRILLIANCE SERVICEBERRY (7'-8' HT. B&B)	REMOVE AND REPLACE 6' FENCE	REMOVE AND REPLACE FENCE, WESTERN BANK	REMOVE AND REPLACE PEDESTRIAN GATE	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM																							REMARKS	SIDE	STATIONS
9000 0006 LF	9000 0007 SY	9000 0021 EACH	9000 0022 EACH	9000 0025 LF	9000 0026 LF	9000 0027 EACH	9203 0001 LS																					ITEM NUMBER UNIT			
	19																											PENN STREET (NORTH)	RT	39+32.64 to 39+96.46
																													RT	39+46.32
																													RT	39+80.01
																												WEST PRINCESS STREET	RT	51+32.86 to 51+94.00
134	19	1	1	47	37	1	---																					TOTALS		

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:09:32 PM

TABULATION OF QUANTITIES

DRAINAGE

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	21 OF 31

GEOTEXTILE, CLASS 1	GEOTEXTILE, CLASS 4, TYPE A	FLOWABLE BACKFILL, TYPE C	12" REINFORCED CONCRETE PIPE, TYPE B, 30" - 1.5' FILL	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL	24" REINFORCED CONCRETE PIPE, TYPE B, 10' - 2' FILL	24" REINFORCED CONCRETE PIPE, TYPE B, 15' - 2' FILL	CLEANING DRAINAGE STRUCTURES	MANHOLE FRAME AND COVER	TYPE D-W ENDWALL	TYPE M CONCRETE TOP UNIT AND GRATE	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE	STANDARD INLET BOX, HEIGHT < /= 10'	TYPE 4 INLET BOX, HEIGHT > 10' AND < /= 20'	TYPE 4 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'	TYPE 4 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'	TYPE 5 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'	TYPE 5 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'	6" PAVEMENT BASE DRAIN	SUBGRADE DRAINS	6" SUBSURFACE DRAIN OUTLETS	SUBSURFACE DRAIN OUTLET ENDWALL (SLOPED)	66" RED SUBSURFACE DRAIN OUTLET MARKER	CONCRETE COLLAR FOR 12" PIPE EXTENSION	CONCRETE COLLAR FOR 18" PIPE EXTENSION	ROCK APRON	TEMPORARY 12" REINFORCED CONCRETE PIPE	REMARKS	SIDE	STATIONS
0212 0001	0212 0014	0220 0020	0601 7305	0601 7313	0601 7326	0601 7327	0605 1300	0605 2401	0605 2620	0605 2730	0605 2731	0605 2850	0605 2855	0605 3011	0605 3012	0605 3021	0605 3022	0610 7002	0612 0001	0615 0022	0615 0050	0615 0065	0618 0020	0618 0022	0851 0003	9000 0014	ITEM NUMBER	
LF	SY	CY	LF	LF	LF	LF	EACH	SET	EACH	SET	SET	EACH	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	EACH	SY	LF	UNIT	
																											GROUPING TITLE HERE		
																				57	1	1						LT / RT	13+50.00
58																		58										LT / RT	13+50.00 to 13+79.00
																			32								WESTERN MSE WALL	LT / RT	13+83.36 to 13+93.69
									1																24		EW1	RT	16+78.81
																											IN4 TO EW1	RT	16+78.81 to 17+92.52
		15																									EX 24" TCP	LT	16+80.51 to 17+97.60
										1			1														IN4	RT	17+92.52
				46																							MH3 TO IN4	LT / RT	17+92.52 to 18+09.01
						221																					MH2 TO IN4	RT	17+92.52 to 20+18.35
								1						1													MH3	LT	18+09.01
			5																				1				MH3 TO RIVERSIDE LOFTS	LT	18+09.01 to 18+12.12
																										43		LT	18+40.88 to 18+67.23
																			32								EASTERN MSE WALL	LT / RT	18+41.31 to 18+51.64
	63																											LT / RT	18+44.07 to 20+35.48
																				6	1	1						RT	18+51.57 to 18+61.73
		7																									OAK LANE INTERSECTION EXISTING DRAINAGE	LT / RT	20+06.80 to 20+60.85
292																		292										LT / RT	20+10.00 to 21+50.10
											1		1														IN2	LT	20+18.23
					37																						IN2 TO MH2	LT / RT	20+18.23 to 20+18.35
				16																							MH1 TO IN2	LT	20+18.23 to 20+38.43
								1									1										MH2	RT	20+18.35
				20																							MH4 TO MH2	RT	20+18.35 to 20+38.25
							1																				EX5	RT	20+37.79
			22																								EX5 TO MH4	RT	20+37.79 to 20+38.25
								1								1											MH4	RT	20+38.25
				18																							IN3 TO MH4	RT	20+38.25 to 20+61.87
								1							1												MH1	LT	20+38.43

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:12:00 PM

TABULATION OF QUANTITIES

DRAINAGE

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	22 OF 31

6" PERFORATED PIPE	JACK AND BORE 24" RCP																														REMARKS	SIDE	STATIONS
9000 0023 LF	9000 0024 LS																														ITEM NUMBER UNIT		
																															GROUPING TITLE HERE		
																																LT / RT	13+50.00
																																LT / RT	13+50.00 to 13+79.00
																															WESTERN MSE WALL	LT / RT	13+83.36 to 13+93.69
																															EW1	RT	16+78.81
	X																														IN4 TO EW1	RT	16+78.81 to 17+92.52
																															EX 24" TCP	LT	16+80.51 to 17+97.60
																															IN4	RT	17+92.52
																															MH3 TO IN4	LT / RT	17+92.52 to 18+09.01
																															MH2 TO IN4	RT	17+92.52 to 20+18.35
																															MH3	LT	18+09.01
																															MH3 TO RIVERSIDE LOFTS	LT	18+09.01 to 18+12.12
																																LT	18+40.88 to 18+67.23
																															EASTERN MSE WALL	LT / RT	18+41.31 to 18+51.64
362																																LT / RT	18+44.07 to 20+35.48
																																RT	18+51.57 to 18+61.73
																															OAK LANE INTERSECTION EXISTING DRAINAGE	LT / RT	20+06.80 to 20+60.85
																																LT / RT	20+10.00 to 21+50.10
																															IN2	LT	20+18.23
																															IN2 TO MH2	LT / RT	20+18.23 to 20+18.35
																															MH1 TO IN2	LT	20+18.23 to 20+38.43
																															MH2	RT	20+18.35
																															MH4 TO MH2	RT	20+18.35 to 20+38.25
																															EX5	RT	20+37.79
																															EX5 TO MH4	RT	20+37.79 to 20+38.25
																															MH4	RT	20+38.25
																															IN3 TO MH4	RT	20+38.25 to 20+61.87
																															MH1	LT	20+38.43

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
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PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:12:00 PM

TABULATION OF QUANTITIES

DRAINAGE

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	23 OF 31

GEOTEXTILE, CLASS 1	GEOTEXTILE, CLASS 4, TYPE A	FLOWABLE BACKFILL, TYPE C	12" REINFORCED CONCRETE PIPE, TYPE B, 30" - 1.5' FILL	18" REINFORCED CONCRETE PIPE, TYPE B, 15' - 1.5' FILL	24" REINFORCED CONCRETE PIPE, TYPE B, 10' - 2' FILL	24" REINFORCED CONCRETE PIPE, TYPE B, 15' - 2' FILL	CLEANING DRAINAGE STRUCTURES	MANHOLE FRAME AND COVER	TYPE D-W ENDWALL	TYPE M CONCRETE TOP UNIT AND GRATE	TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE	STANDARD INLET BOX, HEIGHT < /= 10'	TYPE 4 INLET BOX, HEIGHT > 10' AND < /= 20'	TYPE 4 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'	TYPE 4 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'	TYPE 5 MANHOLE, STORM WATER, HEIGHT >5' AND < /= 10'	TYPE 5 MANHOLE, STORM WATER, HEIGHT >10' AND < /= 20'	6" PAVEMENT BASE DRAIN	SUBGRADE DRAINS	6" SUBSURFACE DRAIN OUTLETS	SUBSURFACE DRAIN OUTLET ENDWALL (SLOPED)	66" RED SUBSURFACE DRAIN OUTLET MARKER	CONCRETE COLLAR FOR 12" PIPE EXTENSION	CONCRETE COLLAR FOR 18" PIPE EXTENSION	ROCK APRON	TEMPORARY 12" REINFORCED CONCRETE PIPE	REMARKS	SIDE	STATIONS
0212 0001	0212 0014	0220 0020	0601 7305	0601 7313	0601 7326	0601 7327	0605 1300	0605 2401	0605 2620	0605 2730	0605 2731	0605 2850	0605 2855	0605 3011	0605 3012	0605 3021	0605 3022	0610 7002	0612 0001	0615 0022	0615 0050	0615 0065	0618 0020	0618 0022	0851 0003	9000 0014	ITEM NUMBER		
LF	SY	CY	LF	LF	LF	LF	EACH	SET	EACH	SET	SET	EACH	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	EACH	EACH	EACH	EACH	SY	LF	UNIT		
				5							1	1												1			DH1 TO MH1	LT	20+38.43 to 20+57.47
											1	1															IN1	LT	20+55.93
				5																							IN1 TO DH1	LT	20+55.93 to 20+57.47
								1						1													DH1	LT	20+57.47
											1	1															IN3	RT	20+61.87
64																		64									PENN STREET (NORTH)	RT	39+32.64 to 39+96.49
59																		59									WEST PRINCESS STREET	RT	51+32.86 to 51+94.00
473	63	22	27	110	37	221	1	5	1	1	3	2	2	2	1	1	1	473	64	63	2	2	1	1	24	43	TOTALS		

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:12:00 PM

TABULATION OF QUANTITIES

DRAINAGE

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	24 OF 31

6" PERFORATED PIPE	JACK AND BORE 24" RCP	REMARKS	SIDE	STATIONS
9000 0023 LF	9000 0024 LS	ITEM NUMBER UNIT		
		DH1 TO MH1	LT	20+38.43 to 20+57.47
		IN1	LT	20+55.93
		IN1 TO DH1	LT	20+55.93 to 20+57.47
		DH1	LT	20+57.47
		IN3	RT	20+61.87
		PENN STREET (NORTH)	RT	39+32.64 to 39+96.49
		WEST PRINCESS STREET	RT	51+32.86 to 51+94.00
362	---	TOTALS		

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/2/2025 5:12:00 PM

TABULATION OF QUANTITIES

EROSION AND SEDIMENT POLLUTION CONTROL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	25 OF 31

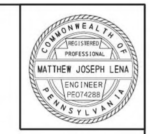
SELECTED BORROW EXCAVATION ROCK, CLASS R-6, TEMPORARY CAUSEWAY	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1, TEMPORARY CAUSEWAY	GEOTEXTILE, CLASS 4, TYPE A	TOPSOIL FURNISHED AND PLACED	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D	TEMPORARY PROTECTIVE FENCE, ORANGE	ROCK CONSTRUCTION ENTRANCE	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK	PUMPED WATER FILTER BAG	REPLACEMENT PUMPED WATER FILTER BAG	INLET FILTER BAG FOR TYPE C INLET	COMPOST FILTER SOCK, 12" DIAMETER	COMPOST FILTER SOCK, 24" DIAMETER	TEMPORARY STREAM DIVERSION	REMARKS	SIDE	STATIONS
4205 0266 CY	4205 0281 CY	0212 0014 SY	0802 0001 CY	0804 0025 LB	0804 0027 LB	0804 0032 LB	0806 0113 SY	4811 0003 LF	0849 0010 EACH	0849 0020 EACH	0855 0003 EACH	0855 0004 EACH	0860 0002 EACH	0867 0012 LF	0867 0022 LF	9000 0002 LF	ITEM NUMBER UNIT		
																	GROUPING TITLE HERE		
							611											LT / RT	12+98.00 to 14+52.16
			163	62		9												LT / RT	12+98.00 to 15+12.12
														33				LT	12+98.30 to 13+28.36
								222										RT	12+99.47 to 15+14.12
														81				RT	13+09.03 to 13+86.62
									1									RT	13+10.38
														30				LT	13+31.40 to 13+59.37
														25				LT	13+59.63 to 13+83.49
			34		15	2												LT	13+99.04 to 14+59.94
1174	235	1059															PHASE 1 TEMPORARY CAUSEWAY	LT / RT	14+06.36 to 15+88.21
									1									LT	14+16.09
							110										EMBANKMENT REHAB	LT	14+68.65 to 15+07.25
											1	1						LT	14+89.39
														38				LT	14+92.84 to 14+94.86
																485		LT / RT	15+01.86 to 16+59.08
900	224	1008															PHASE 2 TEMPORARY CAUSEWAY	LT / RT	15+91.83 to 17+67.95
			295	112		16												LT / RT	16+75.07 to 20+36.06
														224				LT / RT	16+86.29 to 17+34.43
								897										LT	16+95.90 to 19+37.07
							31											LT / RT	17+01.08 to 17+47.70
											1	1						RT	17+04.26
															114			LT / RT	17+62.72 to 18+03.71
							391											RT	17+84.61 to 20+32.12
										1								LT	19+27.52
													1					LT	20+23.87
													1					RT	20+37.79
													1					LT	20+54.78

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MATTHEW JOSEPH LENA — ENGINEER — PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/3/2025 10:29:00 AM

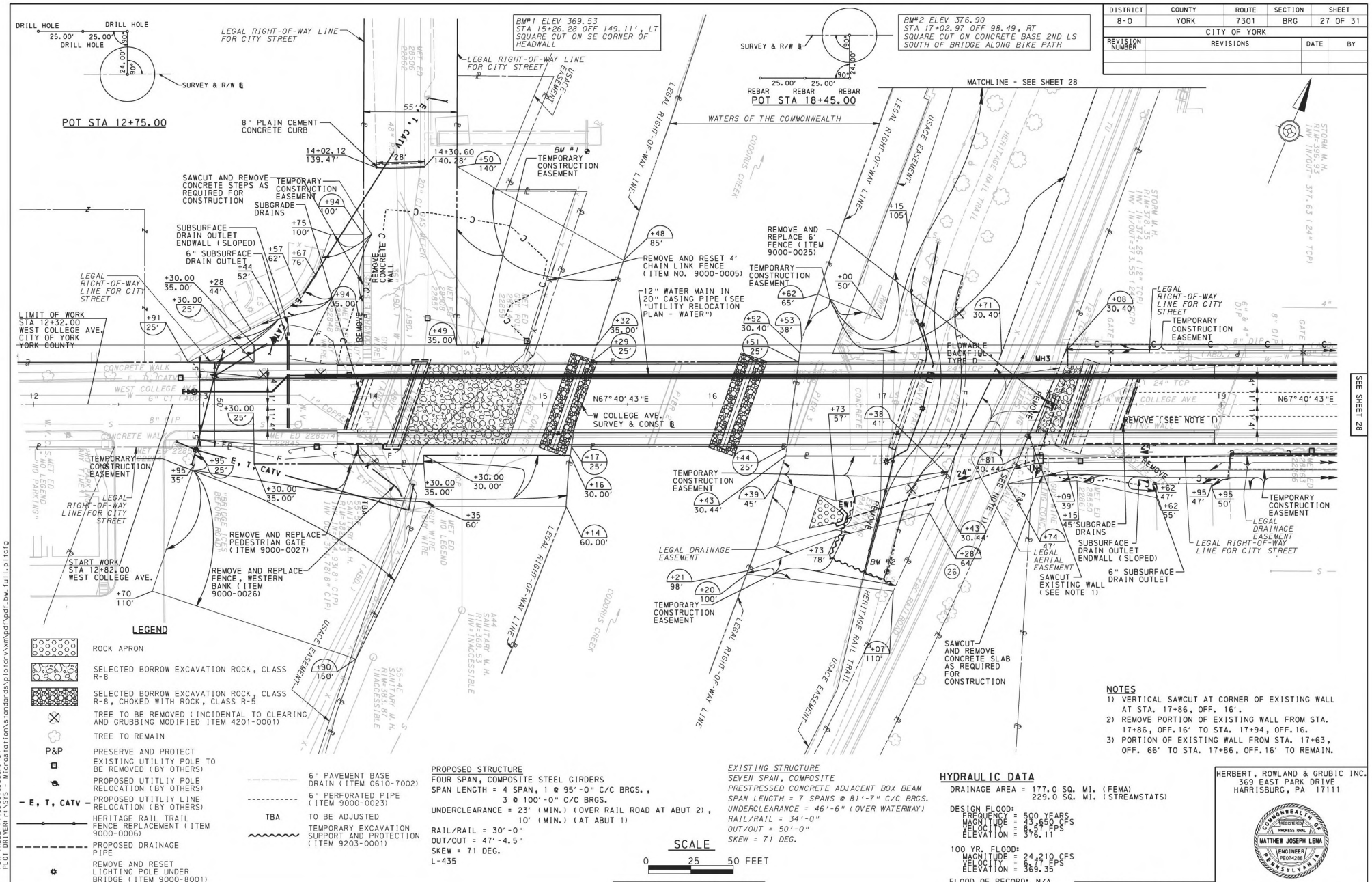
TABULATION OF QUANTITIES
EROSION AND SEDIMENT POLLUTION CONTROL

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	26 OF 31



SELECTED BORROW EXCAVATION ROCK, CLASS R-6, TEMPORARY CAUSEWAY	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1, TEMPORARY CAUSEWAY	GEOTEXTILE, CLASS 4, TYPE A	TOPSOIL FURNISHED AND PLACED	SEEDING AND SOIL SUPPLEMENTS - FORMULA B RESIDENTIAL MIX, INCLUDING MULCH	SEEDING AND SOIL SUPPLEMENTS - FORMULA L CLEAR ZONE MIX, INCLUDING MULCH	SEEDING - FORMULA T TEMPORARY GRASS MIX, INCLUDING MULCH	TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D	TEMPORARY PROTECTIVE FENCE, ORANGE	ROCK CONSTRUCTION ENTRANCE	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK	PUMPED WATER FILTER BAG	REPLACEMENT PUMPED WATER FILTER BAG	INLET FILTER BAG FOR TYPE C INLET	COMPOST FILTER SOCK, 12" DIAMETER	COMPOST FILTER SOCK, 24" DIAMETER	TEMPORARY STREAM DIVERSION	REMARKS	SIDE	STATIONS
4205 0266	4205 0281	0212 0014	0802 0001	0804 0025	0804 0027	0804 0032	0806 0113	4811 0003	0849 0010	0849 0020	0855 0003	0855 0004	0860 0002	0867 0012	0867 0022	9000 0002	ITEM NUMBER		
CY	CY	SY	CY	LB	LB	LB	SY	LF	EACH	EACH	EACH	EACH	EACH	LF	LF	LF	UNIT		
													1					RT	20+60.85
									1									RT	21+40.31
2074	459	2067	492	174	15	27	1143	1119	3	1	2	2	4	431	114	485	TOTALS		

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 12/3/2025 10:29:00 AM



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	27 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- ROCK APRON
- SELECTED BORROW EXCAVATION ROCK, CLASS R-8
- SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH ROCK, CLASS R-5
- TREE TO BE REMOVED (INCIDENTAL TO CLEARING AND GRUBBING MODIFIED ITEM 4201-0001)
- TREE TO REMAIN
- P&P — PRESERVE AND PROTECT
- EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)
- PROPOSED UTITLIY POLE RELOCATION (BY OTHERS)
- – E, T, CATV – PROPOSED UTITLIY LINE RELOCATION (BY OTHERS)
- HERITAGE RAIL TRAIL FENCE REPLACEMENT (ITEM 9000-0006)
- PROPOSED DRAINAGE PIPE
- REMOVE AND RESET LIGHTING POLE UNDER BRIDGE (ITEM 9000-8001)
- 6" PAVEMENT BASE DRAIN (ITEM 0610-7002)
- 6" PERFORATED PIPE (ITEM 9000-0023)
- TBA — TO BE ADJUSTED
- TEMPORARY EXCAVATION SUPPORT AND PROTECTION (ITEM 9203-0001)

PROPOSED STRUCTURE
FOUR SPAN, COMPOSITE STEEL GIRDERS
SPAN LENGTH = 4 SPAN, 1 @ 95'-0" C/C BRGS., 3 @ 100'-0" C/C BRGS.
UNDERCLEARANCE = 23' (MIN.) (OVER RAIL ROAD AT ABUT 2), 10' (MIN.) (AT ABUT 1)
RAIL/RAIL = 30'-0"
OUT/OUT = 47'-4.5"
SKEW = 71 DEG.
L-435

EXISTING STRUCTURE
SEVEN SPAN, COMPOSITE PRESTRESSED CONCRETE ADJACENT BOX BEAM
SPAN LENGTH = 7 SPANS @ 81'-7" C/C BRGS.
UNDERCLEARANCE = 46'-6" (OVER WATERWAY)
RAIL/RAIL = 34'-0"
OUT/OUT = 50'-0"
SKEW = 71 DEG.

SCALE
0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

HYDRAULIC DATA
DRAINAGE AREA = 177.0 SQ. MI. (FEMA)
229.0 SQ. MI. (STREAMSTATS)

DESIGN FLOOD:
FREQUENCY = 500 YEARS
MAGNITUDE = 43,650 CFS
VELOCITY = 6.27 FPS
ELEVATION = 376.11

100 YR. FLOOD:
MAGNITUDE = 24,210 CFS
VELOCITY = 5.71 FPS
ELEVATION = 369.35

FLOOD OF RECORD: N/A

FOR PROFILE, SEE SHEETS 29-30

NOTES
1) VERTICAL SAWCUT AT CORNER OF EXISTING WALL AT STA. 17+86, OFF. 16'.
2) REMOVE PORTION OF EXISTING WALL FROM STA. 17+86, OFF.16' TO STA. 17+94, OFF.16.
3) PORTION OF EXISTING WALL FROM STA. 17+63, OFF. 66' TO STA. 17+86, OFF.16' TO REMAIN.

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MATTHEW JOSEPH LENA — ENGINEER — PE074288

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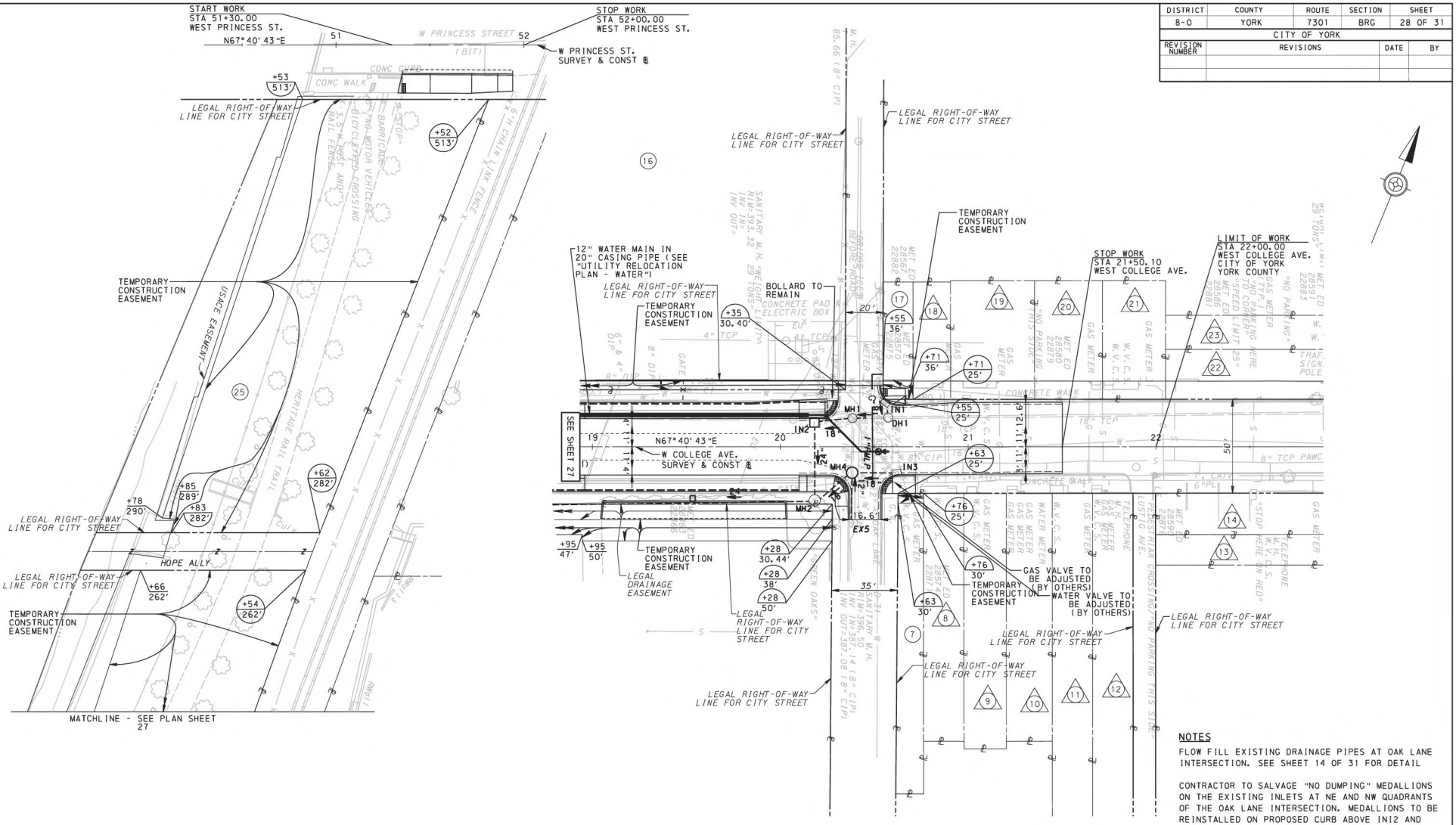

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	28 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

NOTES

FLOW FILL EXISTING DRAINAGE PIPES AT OAK LANE INTERSECTION. SEE SHEET 14 OF 31 FOR DETAIL

CONTRACTOR TO SALVAGE "NO DUMPING" MEDALLIONS ON THE EXISTING INLETS AT NE AND NW QUADRANTS OF THE OAK LANE INTERSECTION. MEDALLIONS TO BE REINSTALLED ON PROPOSED CURB ABOVE IN12 AND IN1.

LEGEND

- PROPOSED DRAINAGE PIPE
- EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)
- 6" PAVEMENT BASE DRAIN (ITEM 0610-7002)
- 6" PERFORATED PIPE (ITEM 9000-0023)

SCALE

0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

FOR PROFILE, SEE SHEETS 29-30

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

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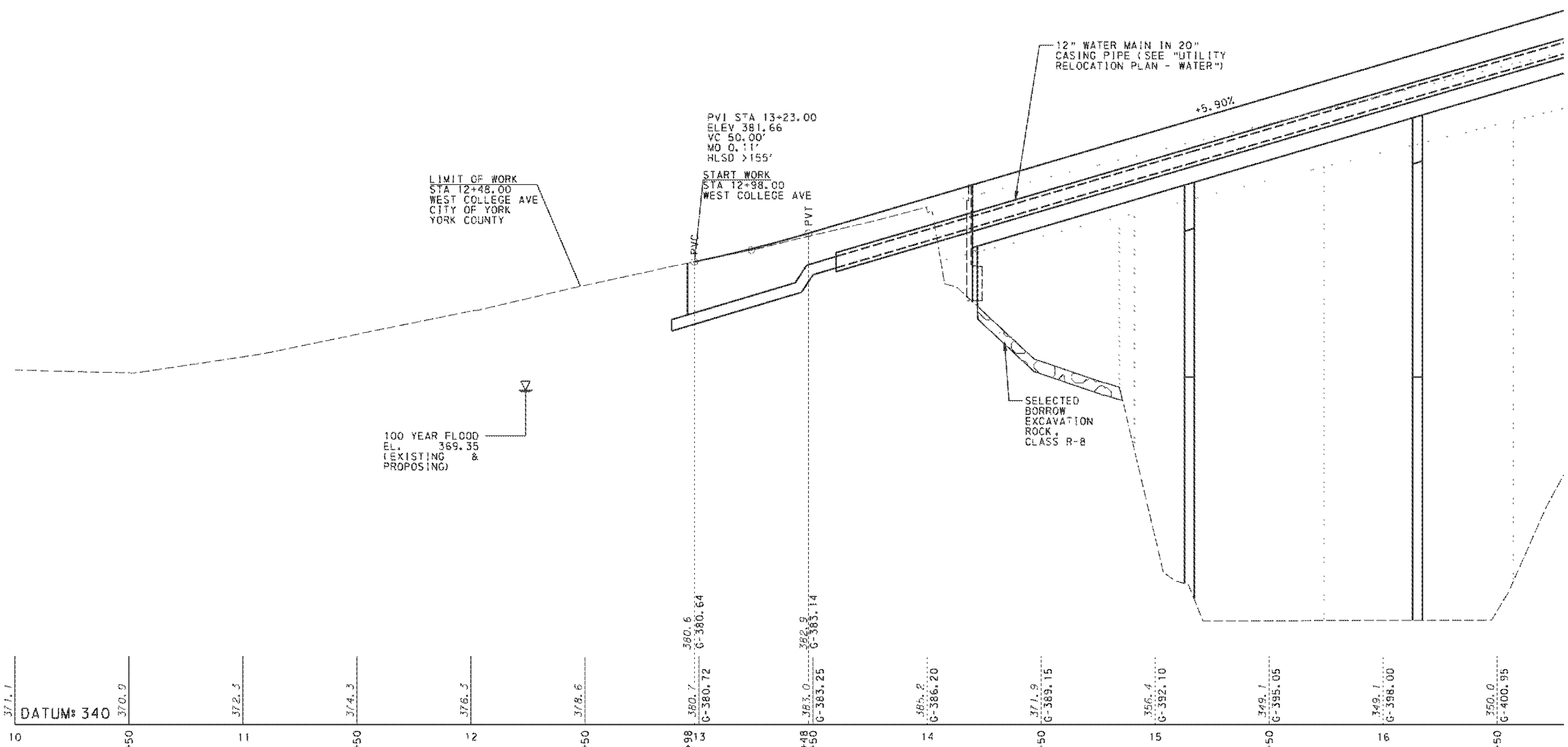
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	29 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



PROFILE - WEST COLLEGE AVE

SCALE

HORIZONTAL 0 25 50 FEET

VERTICAL 0 5 10 FEET

FOR PLAN SEE SHEETS 27-28

SURVEY BOOK NUMBER 003721.0429

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PEC74288

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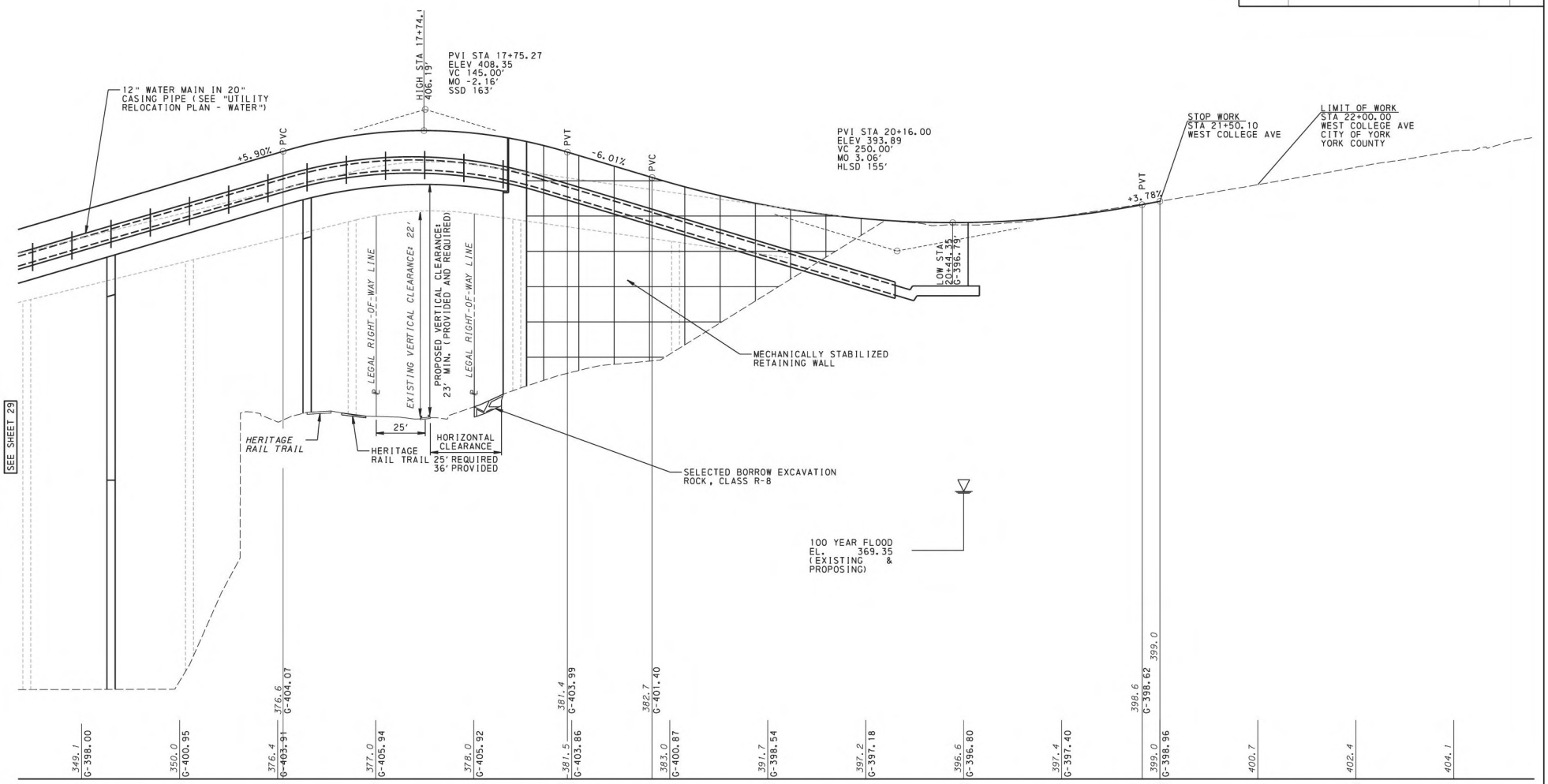
8-0	YORK	7301	BRG	30 OF 31
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



PROFILE - WEST COLLEGE AVE

SCALE

HORIZONTAL 0 25 50 FEET

VERTICAL 0 5 10 FEET

FOR PLAN SEE SHEETS 27-28

SURVEY BOOK NUMBER 003721.0429

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369 EAST PARK DRIVE
HARRISBURG, PA 17111

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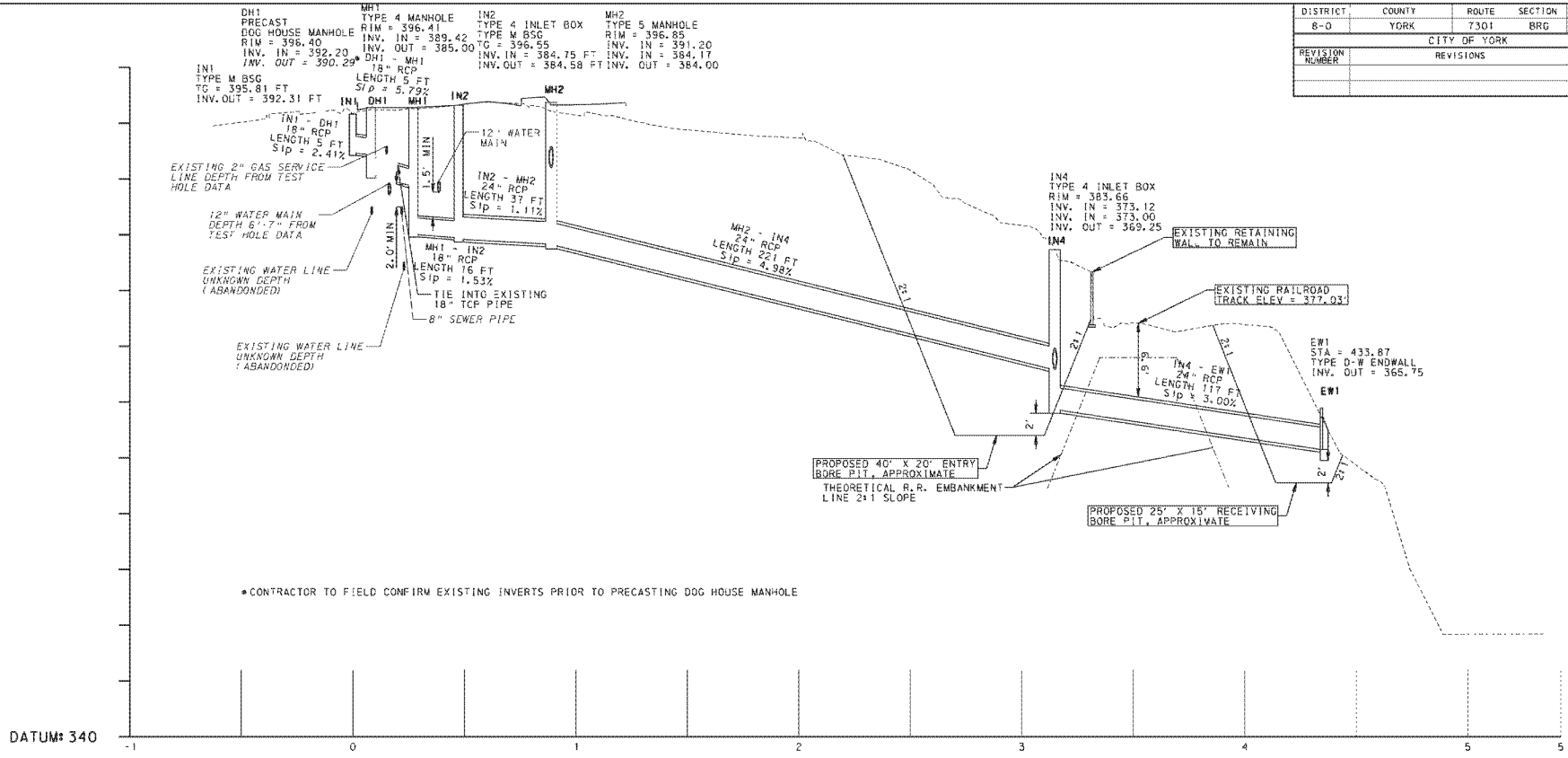
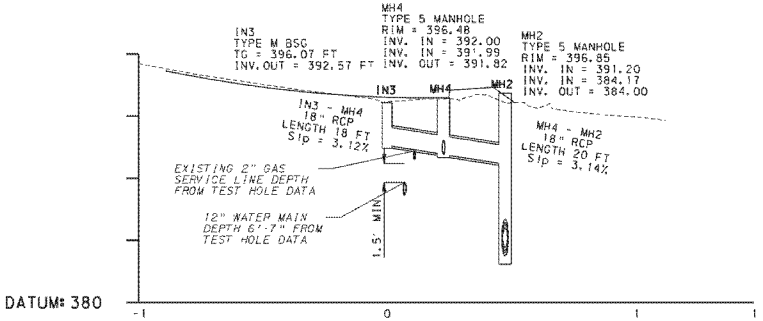
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	31 OF 31
CITY OF YORK				

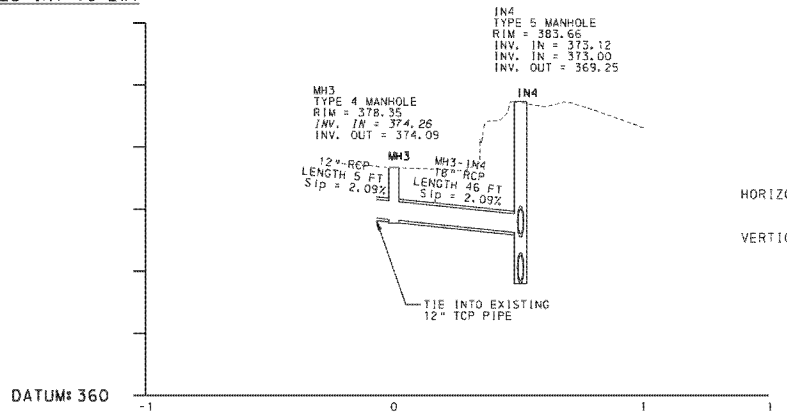
REVISION NUMBER	REVISIONS	DATE	BY



PIPE PROFILES IN1 TO EW1



PIPE PROFILES IN3 TO MH2



PIPE PROFILES MH5 TO MH3

SCALE

HORIZONTAL 0 25 50 FEET

VERTICAL 0 5 10 FEET

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MATTHEW JOSEPH LENA
ENGINEER
PEC74288

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	-	-	1 OF 8
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

DETOUR ROUTE

GENERAL NOTES

DETOUR IS IN ACCORDANCE WITH PATA 215 OF PUBLICATION 213.

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

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
3. PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES, SUBCHAPTER E.
4. PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES.
5. PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
6. PUBLICATION 408, SPECIFICATIONS.
7. PUBLICATION 111, TRAFFIC CONTROL PAVEMENT MARKINGS AND SIGNING STANDARDS, TC-8600 AND TC-8700 SERIES.
8. PUBLICATION 236 HANDBOOK OF APPROVED SIGNS.

CONTRACTOR SHALL COOPERATE AND COORDINATE WITH ANY ADJACENT CONTRACTOR IN THE MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION. COORDINATE THE PLACEMENT, COVERING AND/OR REMOVAL OF SIGNS AND TRAFFIC CONTROL DEVICES THROUGHOUT THE DURATION OF THIS CONTRACT.

ALL SIGN LOCATIONS DISPLAYED ON THESE PLANS ARE FOR GUIDANCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING & ADJUSTING SIGN LOCATIONS BASED ON FIELD CONDITIONS.

DETOUR WILL LAST APPROXIMATELY 403 CALENDAR DAYS.

HERITAGE RAIL TRAIL DETOUR WILL BE IN PLACE FOR APPROXIMATELY 3 NONCONSECUTIVE WEEKS. REFER TO M&PT SPEC AND SHEETS 2 THROUGH 8 OF THIS PLAN FOR DETAILS ON STAGING OF TRAIL CLOSURES.

ALL SIGNAGE LIGHTS SHOULD BE TYPE A LOW-INTENSITY FLASHING LIGHT

VEHICLE DETOUR LENGTH = 0.52 MILES
PEDESTRIAN DETOUR LENGTH = 0.52 MILES

LEGEND

- VEHICULAR, BICYCLE, AND PEDESTRIAN DETOUR
- WORK AREA
- STATE ROAD
- LOCAL ROAD
- STREAM
- SIGN/TYPE B MOUNTING
- SIGN/TYPE III BARRICADE
- (3) SIGN DESIGNATION
- RAILROAD
- HERITAGE RAIL TRAIL

SCALE

0 200 400 FEET

YORK COUNTY BRIDGE #81
W COLLEGE AVE TRAFFIC CONTROL PLAN

RECOMMENDED :

DISTRICT TRAFFIC ENGINEER DATE

RECOMMENDED :

ASSISTANT DISTRICT EXECUTIVE CONSTRUCTION DATE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
BRITTANY SYLVIA BOLMER
ENGINEER
NO. PE083812

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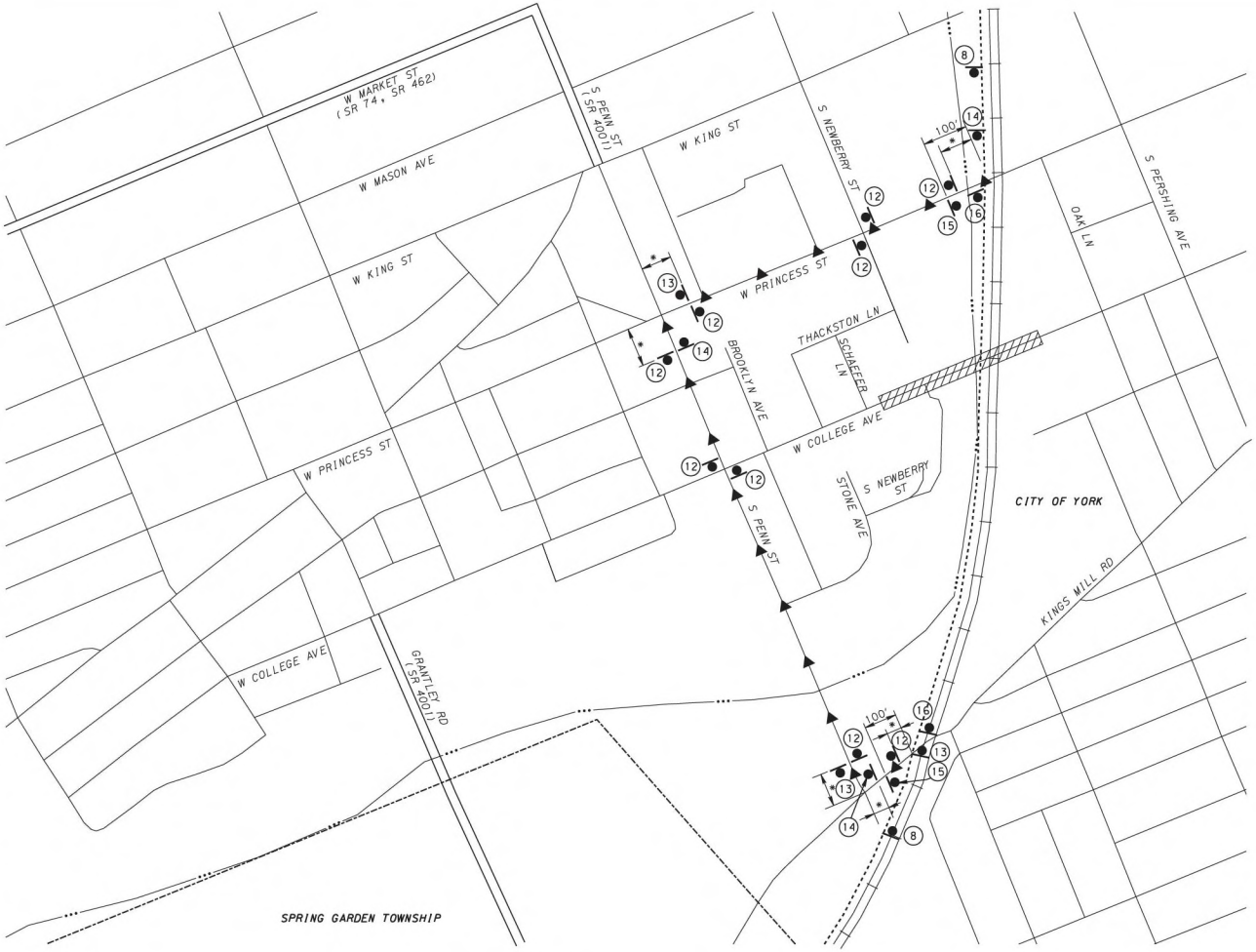
8-0	YORK	-	-	2 OF 8
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



HERITAGE RAIL TRAIL DETOUR ROUTE

NOTES

PLACE HERITAGE RAIL TRAIL DETOUR SIGNS ADJACENT TO VEHICULAR/PEDESTRIAN DETOUR SIGNS ON SEPARATE POSTS. IF PLACING TWO SIGNS ADJACENT TO EACH OTHER RESULTS IN LESS THEN 5' OF SIDEWALK WIDTH, OFFSET HERITAGE RAIL TRAIL DETOUR SIGNS APPROXIMATELY 50' BEFORE VEHICULAR/PEDESTRIAN DETOUR SIGNS.

HERITAGE RAIL TRAIL DETOUR LENGTH = 0.58 MILES

LEGEND

- HERITAGE RAIL TRAIL DETOUR
- WORK AREA
- STATE ROAD
- LOCAL ROAD
- STREAM
- SIGN/TYPE B MOUNTING
- SIGN/TYPE III BARRICADE
- (3) SIGN DESIGNATION
- RAILROAD
- MUNICIPAL BOUNDARY
- HERITAGE RAIL TRAIL

SCALE

0 200 400 FEET

YORK COUNTY BRIDGE #81
W COLLEGE AVE TRAFFIC CONTROL PLAN

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
BRITTANY SYLVIA BOLMER
ENGINEER NO. PE083612

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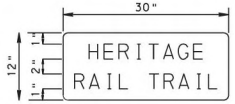
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	-	-	3 OF 8
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

TABULATION OF SIGNS AND DEVICES FOR DETOUR ROUTE MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION

NO.	LEGEND	SERIES	SIZE	MOUNTING	QUANTITY	REMARKS
1	BRIDGE CLOSED	R11-2-1	48"X30"	TYPE III BARRICADE	4	BARRICADES MUST EXTEND ACROSS FULL WIDTH OF WEST COLLEGE AVE. MAINTAIN ACCESS TO DRIVEWAYS AND ALLEYS WITHIN WORK AREA.
2	ROAD CLOSED TO THRU TRAFFIC / DETOUR	R11-4 M4-10L	60"X30" 48"X18"	TYPE III BARRICADE	1	PLACE ON RIGHT SIDE OF WEST COLLEGE AVE AT INTERSECTION WITH SOUTH PENN ST.
3	ROAD CLOSED TO THRU TRAFFIC / DETOUR	R11-4 M4-10R	60"X30" 48"X18"	TYPE III BARRICADE	1	PLACE ON RIGHT SIDE OF WEST COLLEGE AVE AT INTERSECTION WITH S PERSHING AVE.
4	DETOUR / DETOUR	M4-9AL M4-9L	30"X24" 30"X24"	TYPE B	3	
5	DETOUR / DETOUR	M4-9AR M4-9R	30"X24" 30"X24"	TYPE B	3	
6	DETOUR	M4-9S	30"X24"	TYPE B	6	
7	DETOUR / END DETOUR	M4-9A M4-8A	30"X24" 24"X18"	TYPE B	2	
8	DETOUR AHEAD	W20-2 W30-1-6	36"X36" 20"X6"	TYPE B	4	
9	DETOUR	M4-9SL	30"X24"	TYPE B	3	
10	DETOUR	M4-9SR	30"X24"	TYPE B	3	
11	THIS BRIDGE TO BE CLOSED FOR CONSTRUCTION *DATE*	W23-101	96"X48"	TYPE III BARRICADE	2	TO BE INSTALLED TWO WEEKS PRIOR TO IMPLEMENTING THE DETOUR AND REMOVED ONCE DETOUR IS IN PLACE.
12	HERITAGE RAIL TRAIL / DETOUR	SP-1 M4-9S	30"X12" 30"X24"	TYPE B	9	
13	HERITAGE RAIL TRAIL / DETOUR	SP-1 M4-9L	30"X12" 30"X24"	TYPE B	3	
14	HERITAGE RAIL TRAIL / DETOUR	SP-1 M4-9R	30"X12" 30"X24"	TYPE B	3	
15	HERITAGE RAIL TRAIL / END DETOUR	SP-1 M4-9A	30"X12" 30"X24"	TYPE B	2	
16	SIDEWALK CLOSED	R9-9	24"X12"	TYPE B	6	
17	DETOUR	M4-9AL	30"X24"	TYPE B	1	
18	DETOUR	M4-9AR	30"X24"	TYPE B	1	
19	ROAD CLOSED	R11-2	48"X30"	TYPE III BARRICADE	2	TO ONLY BE IN PLACE DURING WATERLINE INSTALLATION. PLACE ACROSS SCHAEFER LANE AND DO NOT BLOCK INTERSECTING DRIVEWAYS OR STREETS.
20	SIDEWALK CLOSED / DETOUR	R9-9 M4-9AL	24"X12" 30"X24"	TYPE B	2	
21	SIDEWALK CLOSED / DETOUR	R9-9 M4-9AR	24"X12" 30"X24"	TYPE B	2	
22	DETOUR 500 FEET	W20-2 W30-1-1	36"X36" 20"X6"	TYPE B	2	
23	DETOUR 1000 FEET	W20-2 W30-1-2	36"X36" 20"X6"	TYPE B	2	
24	CONSTRUCTION ENTRANCE AHEAD	W25-5	36"X36"	TYPE B	2	
25	BRIDGE OUT 1/4 MILE AHEAD LOCAL TRAFFIC ONLY	R11-3B R11-3A	48"X12" 60"X30"	TYPE III BARRICADE	2	

* PLACE SIGN AS CLOSE TO INTERSECTION AS PRACTICAL, BUT NO MORE THAN 200' AWAY.



BACKGROUND - ORANGE PRISMATIC SHEETING
LEGEND - BLACK NON-REFLECTIVE 4" UPPERCASE LETTERING SERIES C

LINE 1:		LINE 2:	
SPACE	- 4.85"	SPACE	- 2.15"
H	- 3.0"	R	- 2.9"
E	- 2.7"	A	- 3.2"
R	- 3.0"	I	- 1.4"
I	- 1.2"	L	- 2.0"
T	- 2.2"	SPACE	- 4.0"
A	- 3.2"	T	- 2.7"
G	- 3.0"	R	- 2.9"
E	- 2.0"	A	- 3.2"
SPACE	- 4.85	I	- 1.4"
TOTAL	- 30.0"	L	- 2.0"
		SPACE	- 2.15"
		TOTAL	- 30.0"

SP-1
NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

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BRITTANY SYLVIA BOLMER
ENGINEER NO. PE083612

YORK COUNTY BRIDGE #81
W COLLEGE AVE TRAFFIC CONTROL PLAN

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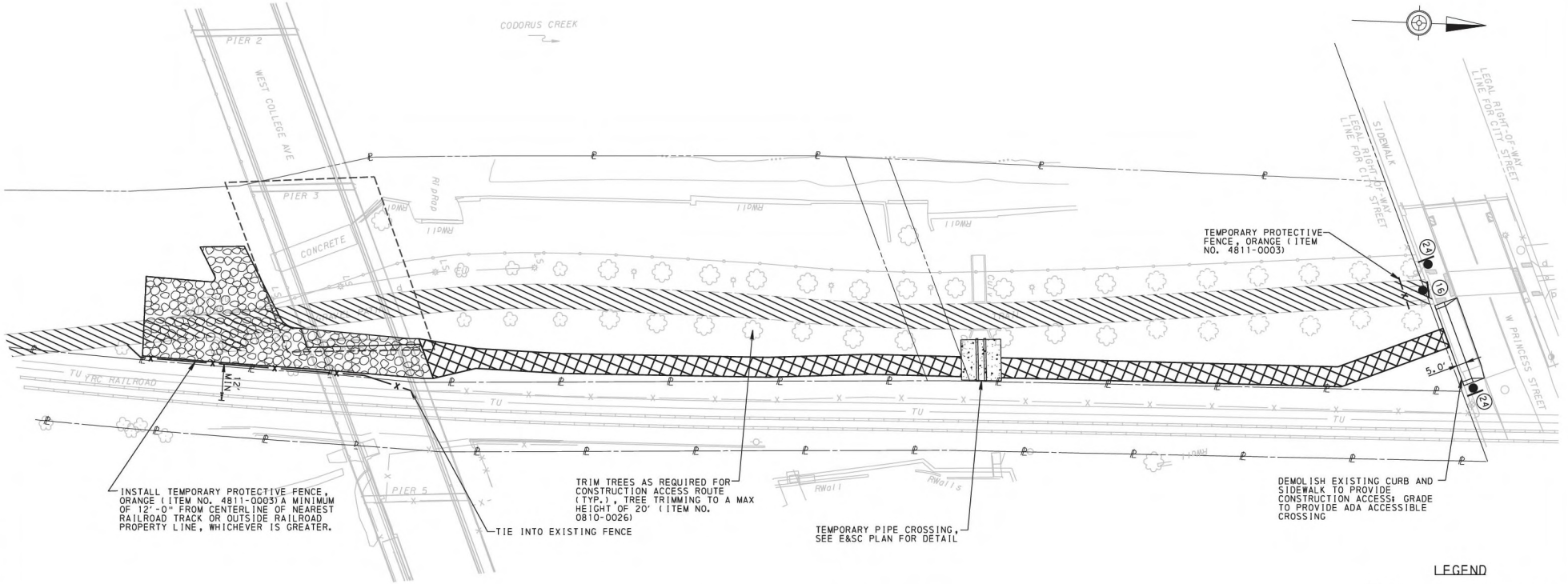
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



PHASE 1 - DEMOLISH SPAN 4

- PEDESTRIAN ACCESS TO HERITAGE RAIL TRAIL FROM W. PRINCESS ST. TO KINGS MILL ROAD CLOSED. TRAIL TRAFFIC WILL FOLLOW HERITAGE RAIL TRAIL DETOUR. REFER TO SHEET 2 OF THIS PLAN FOR DETOUR ROUTE.

SCALE

0 25 50 FEET

LEGEND

- TEMPORARY HERITAGE RAIL TRAIL CLOSURE AREA
- CONSTRUCTION ACCESS ROUTE
- TEMPORARY CAUSEWAY
- SIGN/TYPE B MOUNTING
- (24) SIGN DESIGNATION
- CONSTRUCTION WORK AREA

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ENGINEER
PE074288

12/11/2025

YORK COUNTY BRIDGE #81
PHASE 1 - BRIDGE DEMOLITION

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8-0	YORK	-	-	5 OF 8
CITY OF YORK				

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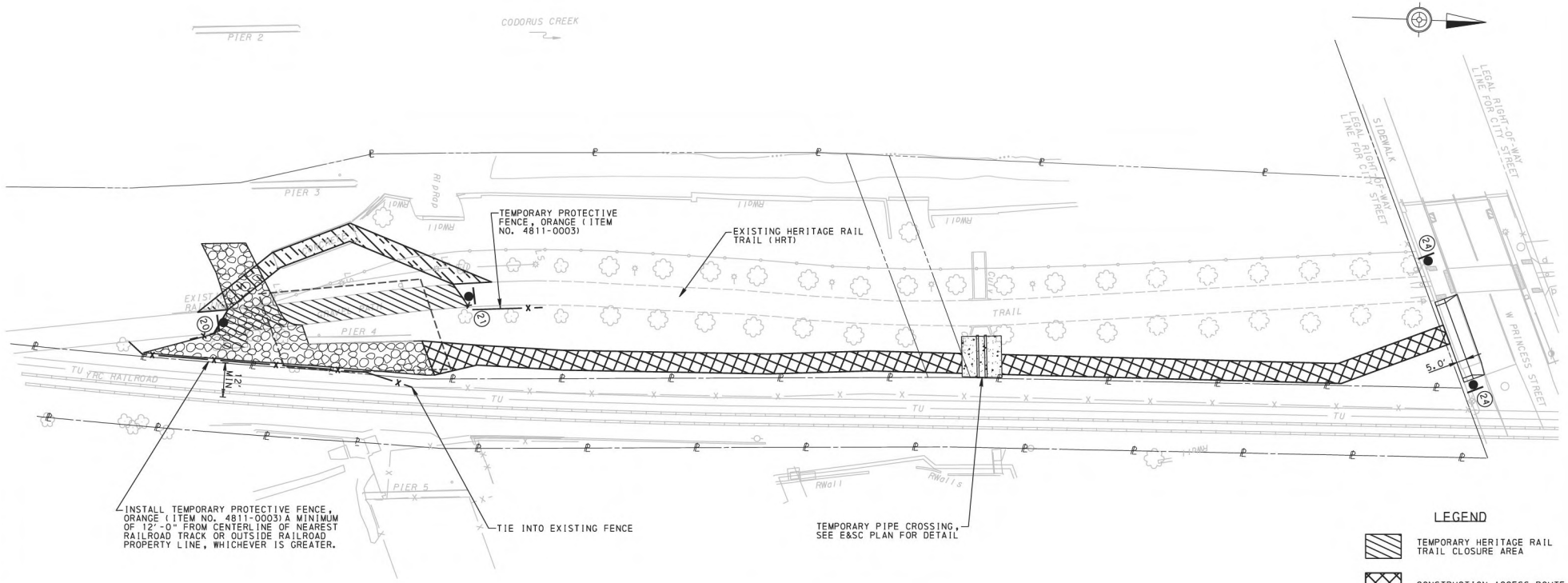

PHASE 1 - DEMOLISH PIER 4

- PEDESTRIAN ACCESS TO HERITAGE RAIL TRAIL DURING PIER 4 DEMOLITION ACTIVITIES TO BE MAINTAINED VIA TEMPORARY PEDESTRIAN BRIDGE (WITH SHIELDING); SHIELDING TO BE LOCKED OUTSIDE OF WORK HOURS (NO ACCESS). EXISTING HERITAGE RAIL TRAIL TO BE ACCESSIBLE OUTSIDE OF WORK HOURS WHILE SHIELDING IS LOCKED.

SCALE

0 25 50 FEET

LEGEND

- TEMPORARY HERITAGE RAIL TRAIL CLOSURE AREA
- CONSTRUCTION ACCESS ROUTE
- TEMPORARY CAUSEWAY
- TEMPORARY PEDESTRIAN BRIDGE WITH OVERHEAD SHIELDING (ITEM NO. 9000-0009)
- SIGN/TYPE B MOUNTING
- (24) SIGN DESIGNATION
- CONSTRUCTION WORK AREA

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YORK COUNTY BRIDGE #81
PHASE 1 - BRIDGE DEMOLITION

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8-0	YORK	-	-	6 OF 8
CITY OF YORK				

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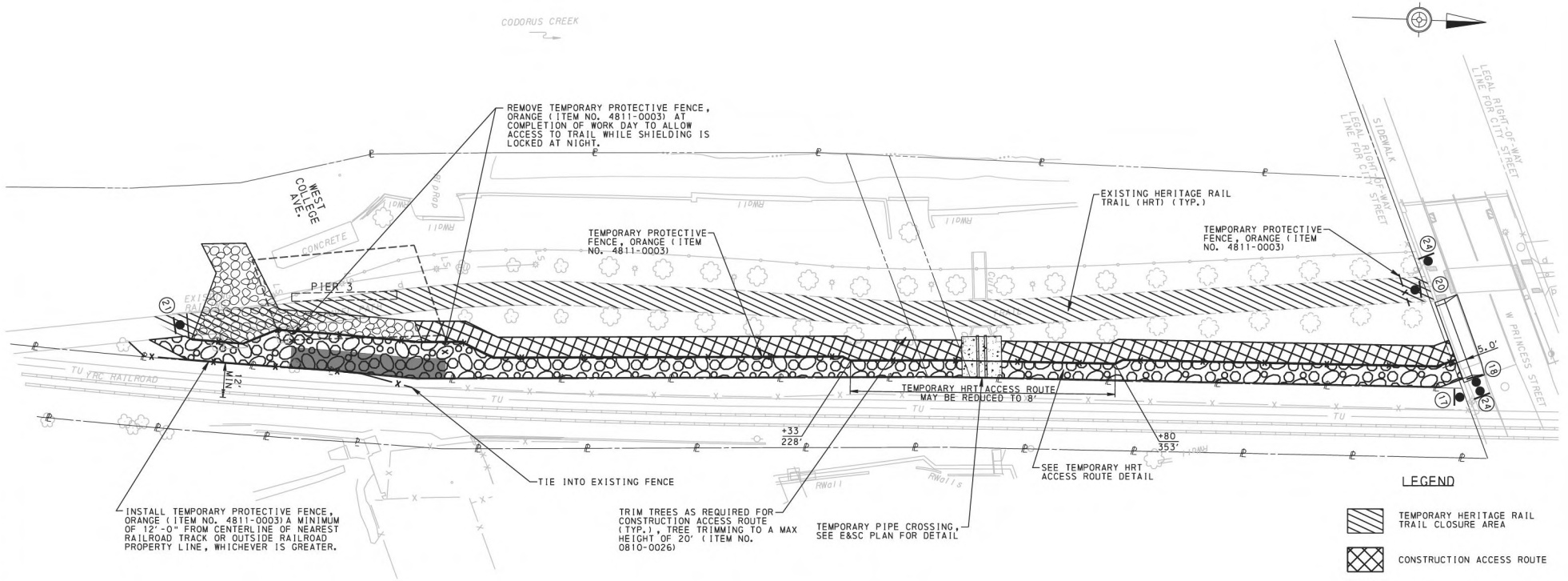

PHASE 2 - CONSTRUCT PIER 3

- PEDESTRIAN ACCESS TO HERITAGE RAIL TRAIL MAINTAINED VIA TRAIL SHIFT (WITH SHIELDING NEAR BRIDGE). INSTALL TEMPORARY SHIELDING AND TEMPORARY ORANGE SAFETY FENCE DURING WORK HOURS. CLOSE ACCESS TO SHIELDING DURING NON-WORK HOURS TO PREVENT ENCAMPMENTS AND MAINTAIN ACCESS AROUND TEMPORARY SHIELDING.
-STATION OFFSET CALL OUTS ARE BASED ON W COLLEGE AVE. SURVEY & CONST ℄

SCALE

0 25 50 FEET

LEGEND

- TEMPORARY HERITAGE RAIL TRAIL CLOSURE AREA
- CONSTRUCTION ACCESS ROUTE
- TEMPORARY HRT ACCESS ROUTE
- PROTECTIVE SHIELDING (ITEM NO. 9000-0008)
- TEMPORARY CAUSEWAY
- SIGN/TYPE B MOUNTING
- (24) SIGN DESIGNATION
- CONSTRUCTION WORK AREA

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YORK COUNTY BRIDGE #81
PHASE 2 - BRIDGE CONSTRUCTION

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8-0	YORK	-	-	7 OF 8
CITY OF YORK				

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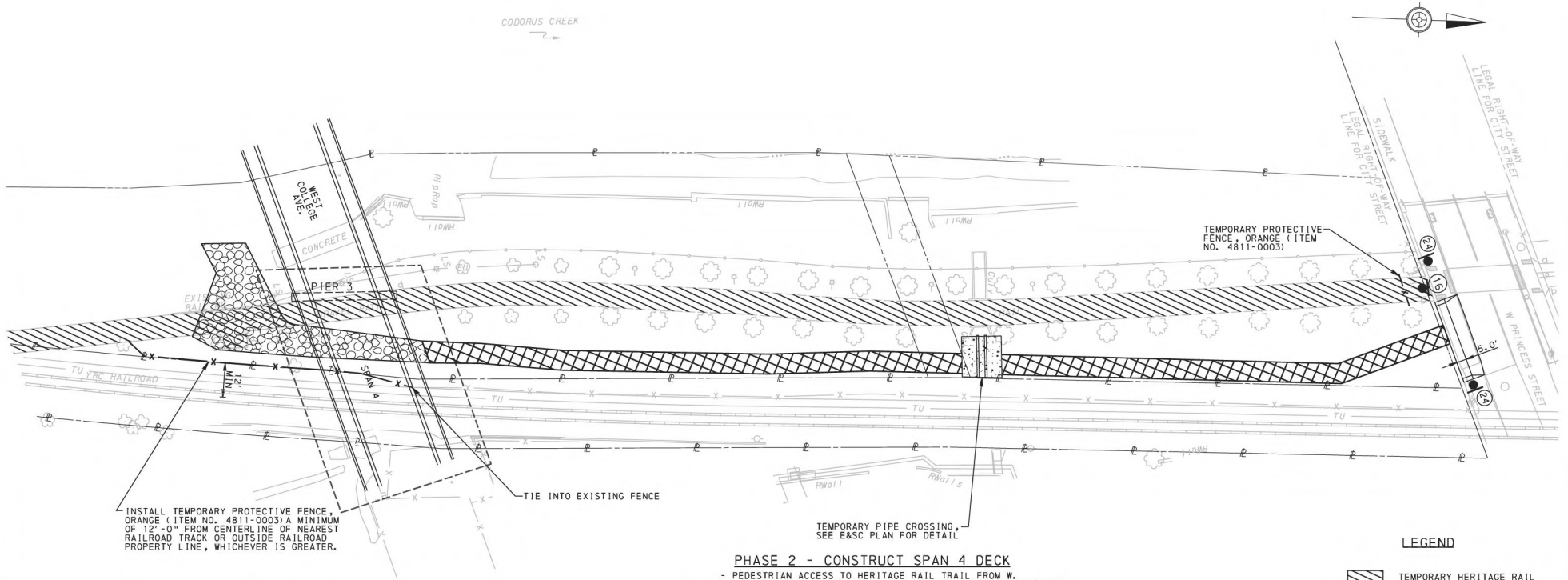

PHASE 2 - CONSTRUCT SPAN 4 DECK

- PEDESTRIAN ACCESS TO HERITAGE RAIL TRAIL FROM W. PRINCESS ST. TO KINGS MILL ROAD CLOSED. TRAIL TRAFFIC WILL FOLLOW HERITAGE RAIL TRAIL DETOUR. REFER TO SHEET 2 OF THIS PLAN FOR DETOUR ROUTE.

SCALE

0 25 50 FEET

LEGEND

- TEMPORARY HERITAGE RAIL TRAIL CLOSURE AREA
- CONSTRUCTION ACCESS ROUTE
- TEMPORARY CAUSEWAY
- SIGN/TYPE B MOUNTING
- (24) SIGN DESIGNATION
- CONSTRUCTION WORK AREA

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YORK COUNTY BRIDGE #81
PHASE 2 - BRIDGE CONSTRUCTION

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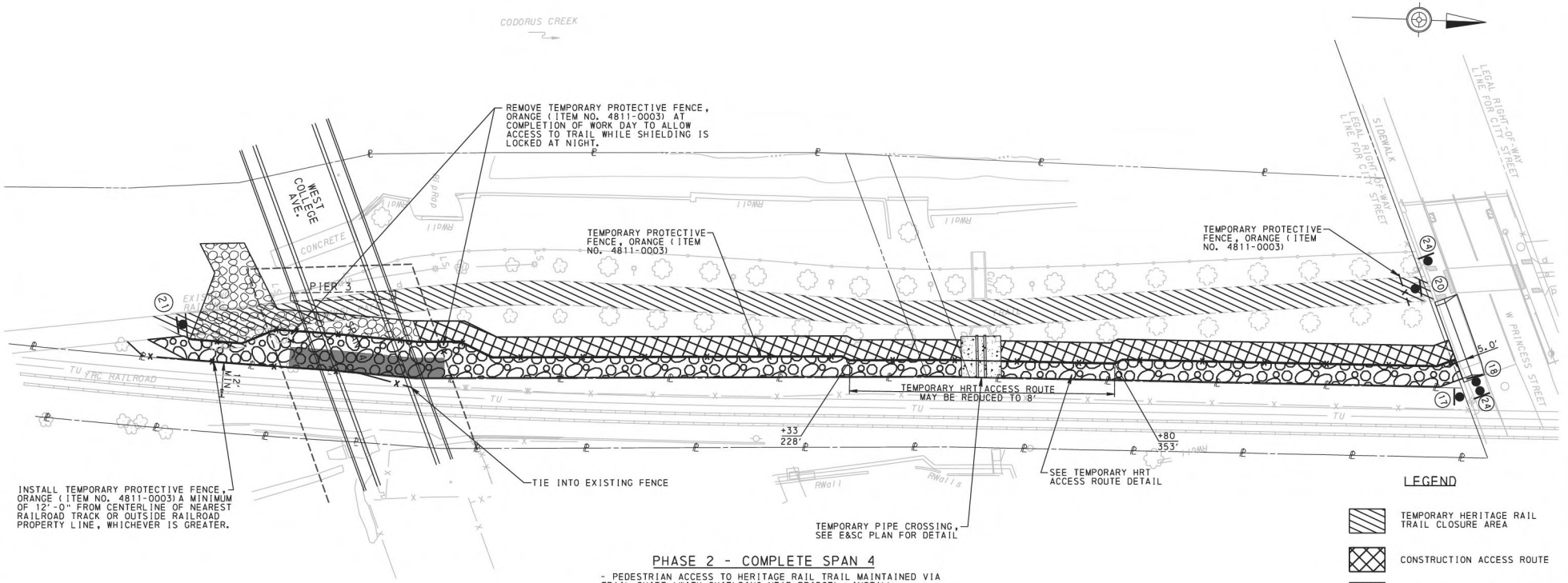
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	-	-	8 OF 8
CITY OF YORK				

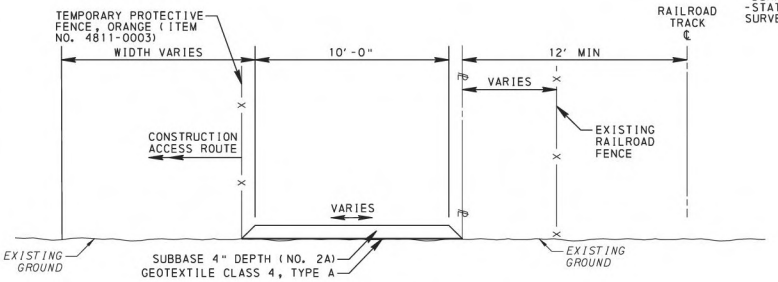
REVISION NUMBER	REVISIONS	DATE	BY



PHASE 2 - COMPLETE SPAN 4

- PEDESTRIAN ACCESS TO HERITAGE RAIL TRAIL MAINTAINED VIA TRAIL SHIFT (WITH SHIELDING NEAR BRIDGE). INSTALL TEMPORARY SHIELDING AND TEMPORARY ORANGE SAFETY FENCE DURING WORK HOURS. CLOSE ACCESS TO SHIELDING DURING NON-WORK HOURS TO PREVENT ENCAMPMENTS AND MAINTAIN ACCESS AROUND TEMPORARY SHIELDING.
-DURATION - APPROX. 10-14 WEEKS.
-STATION OFFSET CALL OUTS ARE BASED ON W COLLEGE AVE. SURVEY & CONST @

SCALE
0 25 50 FEET



TEMPORARY HRT ACCESS ROUTE
NOT TO SCALE

LEGEND

- TEMPORARY HERITAGE RAIL TRAIL CLOSURE AREA
- CONSTRUCTION ACCESS ROUTE
- TEMPORARY HRT ACCESS ROUTE
- PROTECTIVE SHIELDING (ITEM NO. 9000-0008)
- TEMPORARY CAUSEWAY
- SIGN/TYPE B MOUNTING
- (24) SIGN DESIGNATION
- CONSTRUCTION WORK AREA

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

YORK COUNTY BRIDGE #81
PHASE 2 - BRIDGE CONSTRUCTION

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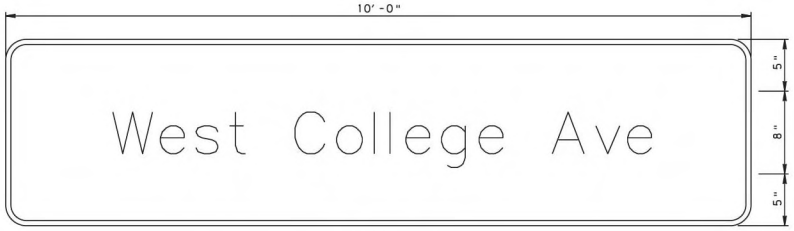
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	1 OF 5
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



SPACE	- 7.12
W	- 10.96
e	- 6.80
s	- 5.84
t	- 3.44
SPACE	- 8.00
C	- 7.12
o	- 7.68
l	- 4.08
l	- 3.76
e	- 7.04
g	- 7.36
e	- 6.00
SPACE	- 8.00
A	- 7.60
v	- 6.80
e	- 5.28
SPACE	- 7.12
TOTAL	- 120.0

0.8" BORDER

WAYFINDING SIGN (I18-1)

NOT TO SCALE

COLOR: LEGEND AND BORDER - WHITE (NON-REFLECTIVE)
BACKGROUND - BLUE (NON-REFLECTIVE)

FONT: CLEARVIEW HIGHWAY 3W
8" UPPER CASE/6" LOWER CASE LETTER HEIGHT

GENERAL NOTES

1. ALL STATIONS ARE APPROXIMATE.
2. FINAL APPLICATION OF ALL PAVEMENT MARKINGS SHALL BE AFTER COMPLETION OF ALL ASSOCIATED PROJECT ROADWAY CLEAN-UP.
3. GOVERNING PUBLICATIONS FOR SIGNING AND PAVEMENT MARKING OPERATIONS ARE AS FOLLOWS:

   FHWA - MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
   PDT PUB. 35 - APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)
   PDT PUB. 46 - TRAFFIC ENGINEERING MANUAL
   PDT PUB. 111 - TRAFFIC CONTROL PAVEMENT MARKING AND SIGNING STANDARDS
   PDT PUB. 236 - HANDBOOK OF APPROVED SIGNS
   PDT PUB. 408 - SPECIFICATIONS, (CURRENT LET DATE EDITION)
4. UNLESS OTHERWISE SPECIFIED, EXISTING SIGNS DISTURBED DURING CONSTRUCTION SHALL BE PROMPTLY REPLACED BY CONTRACTOR.
5. REMOVE ADVANCE LOAD POSTING SIGNS OUTSIDE OF THE PROJECT LIMITS.

RECOMMENDED :

DISTRICT TRAFFIC ENGINEER DATE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

12/03/2025

TABULATION OF QUANTITIES

SIGNING

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	2 OF 5

POST MOUNTED SIGNS, TYPE B	STRUCTURE MOUNTED FLAT SHEET ALUMINUM SIGNS	RESET POST MOUNTED SIGNS, TYPE B	REMOVE POST MOUNTED SIGNS, TYPE B	REMOVE POST MOUNTED SIGNS, TYPE F	RESET GREEN OAKS SIGN	REMARKS	SIDE	STATIONS
0931 0001 SF	0936 0200 SF	0941 0001 EACH	0971 0001 EACH	0975 0001 EACH	9000 0011 EACH	ITEM NUMBER UNIT		
						GROUPING TITLE HERE		
			2			ADVANCE LOAD POSTING SIGNS OUTSIDE PROJECT LIMITS	LT / RT	12+48.00 to 22+00.00
		1				"BRIDGE ICES BEFORE ROAD"	RT	13+12.27
1						"NO PARKING"	LT	13+80.80
				1		"NO PARKING"	LT	13+86.09
			1			"WEIGHT LIMIT 29 TONS"	RT	13+88.62
	15					I18-1 "WEST COLLEGE AVE" 120" X 18"	RT	16+07.00
	15					I18-1 "WEST COLLEGE AVE" 120" X 18"	LT	16+24.00
				3		"WEIGHT LIMIT 29 TONS"	LT	19+90.95
		1				"BRIDGE ICES BEFORE ROAD"	LT	20+21.74
					1	"GREEN OAKS"	RT	20+22.16
			1			"STOP"	LT	20+25.15
6						"STOP"	LT	20+29.35
7	30	2	4	4	1	TOTALS		

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 9/10/2025 2:54:59 PM

TABULATION OF QUANTITIES

PAVEMENT MARKINGS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	3 OF 5

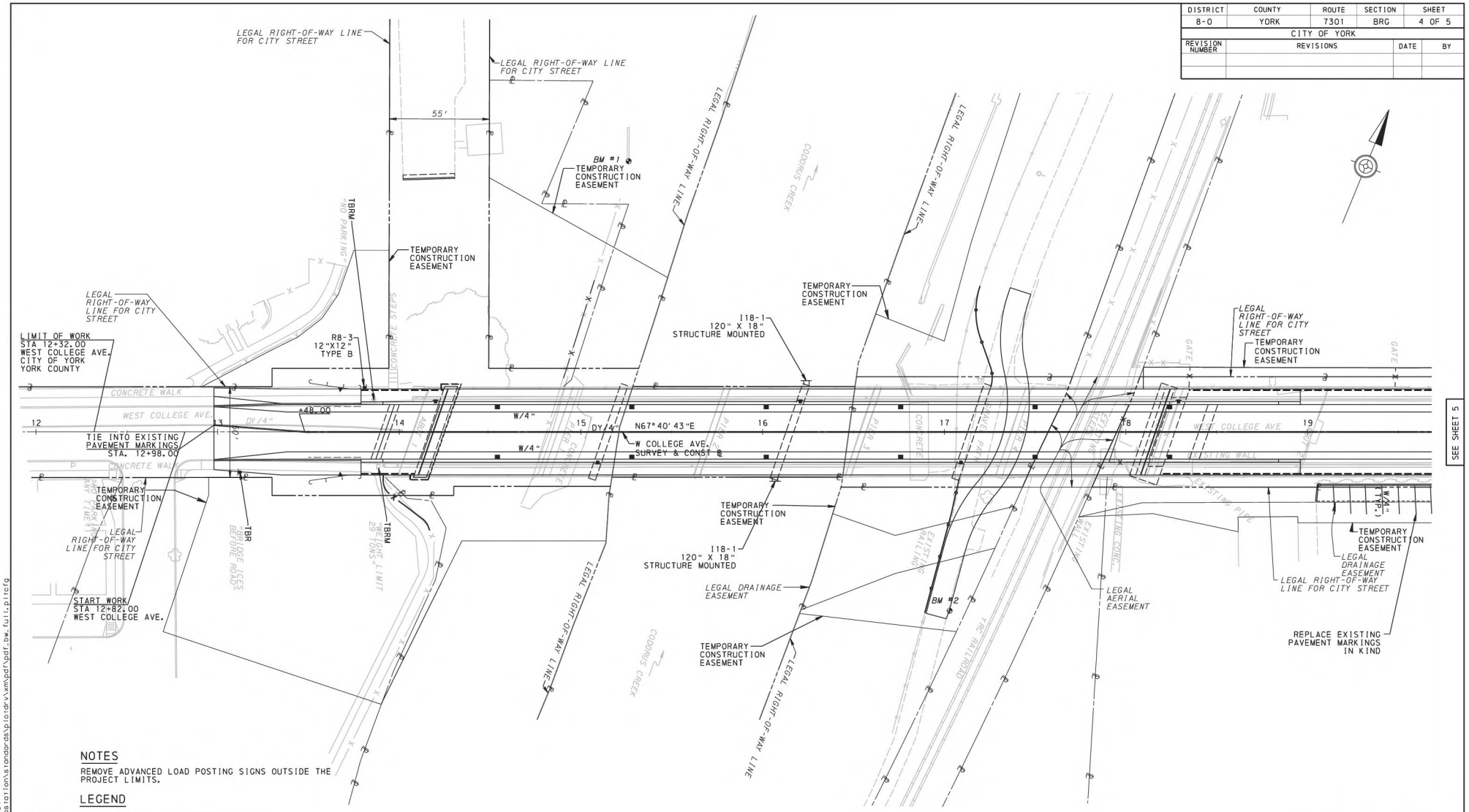
4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, YELLOW	4" STANDARD PAVEMENT MARKINGS, PAINT & BEADS, WHITE	4" WHITE WATERBORNE PAVEMENT MARKINGS	4" YELLOW WATERBORNE PAVEMENT MARKINGS	ITEM NUMBER	UNIT	REMARKS	SIDE	STATIONS
0901 0320	0901 0330	0962 1000	0962 1005					
LF	LF	LF	LF					
						GROUPING TITLE HERE		
	1462	1462				SHOULDER STRIPING	LT / RT	12+98.00 to 20+28.78
1648			1648			DOUBLE YELLOW	LT / RT	12+98.00 to 21+50.10
	158	158				GREEN OAKS PARKING LOT	RT	19+04.39 to 20+03.70
1648	1620	1620	1648			TOTALS		

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 9/10/2025 2:57:29 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	4 OF 5
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



NOTES

REMOVE ADVANCED LOAD POSTING SIGNS OUTSIDE THE PROJECT LIMITS.

LEGEND

DY/4"	4" DOUBLE YELLOW PAVEMENT MARKINGS
TBRM	TO BE REMOVED
TBR	TO BE RESET
⊩	PROPOSED POST MOUNTED SIGN, TYPE B
⊤	PROPOSED STRUCTURE MOUNTED SIGN
▲	GUIDE RAIL MOUNTED DELINEATOR TYPE B AND TYPE D
■	BARRIER MOUNTED DELINEATOR TYPE R AND TYPE O
DY/4"	EXISTING 4" DOUBLE YELLOW PAVEMENT MARKINGS
⊳	EXISTING SIGN

SCALE

0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

SIGNING AND PAVEMENT MARKING PLAN

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

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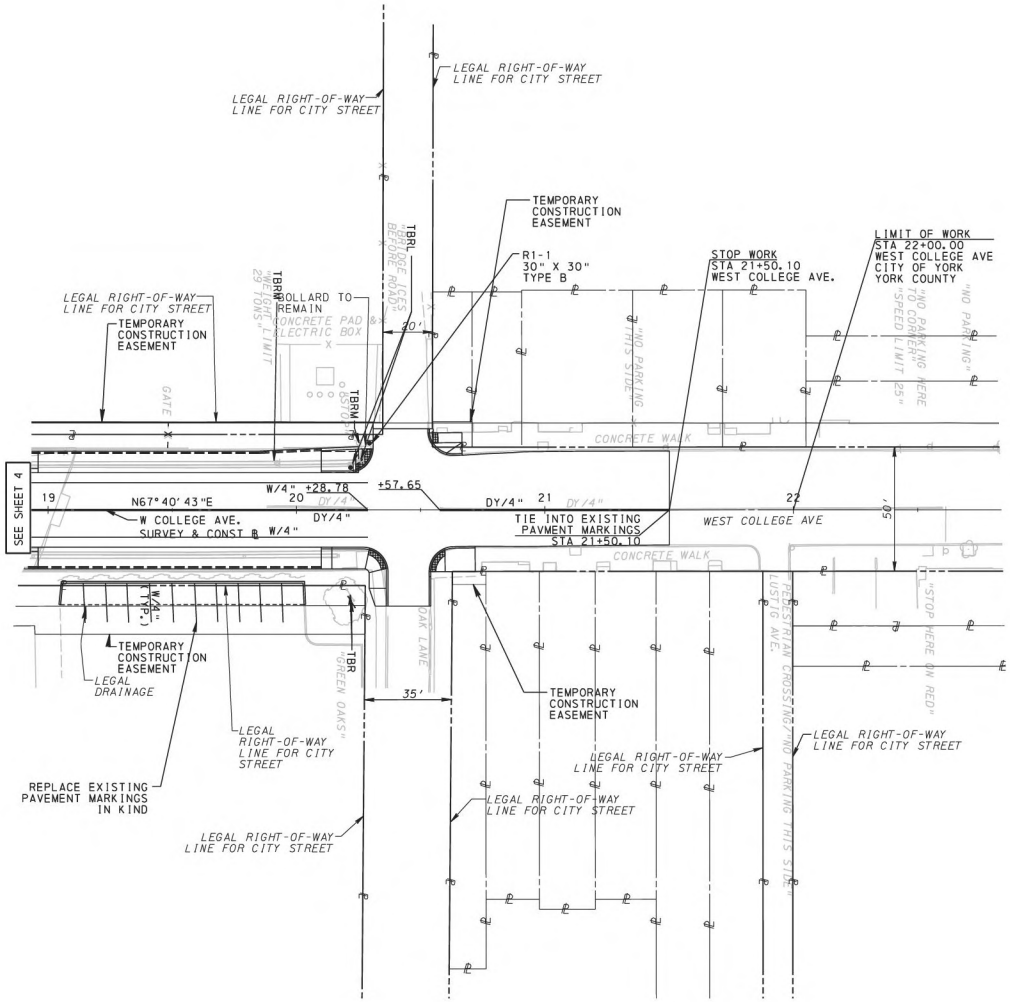
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	5 OF 5
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



NOTES

REMOVE ADVANCED LOAD POSTING SIGNS OUTSIDE THE PROJECT LIMITS.

LEGEND

DY/4"	4" DOUBLE YELLOW PAVEMENT MARKINGS
TBRM	TO BE REMOVED
TBRL	TO BE RELOCATED
TBR	TO BE RESET
⊳	PROPOSED POST MOUNTED SIGN, TYPE B
DY/4"	*EXISTING 4" DOUBLE YELLOW PAVEMENT MARKINGS*
⊳	*EXISTING SIGN*

SCALE

0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

SIGNING AND PAVEMENT MARKING PLAN

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

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TABULATION OF QUANTITIES

WATER UTILITY

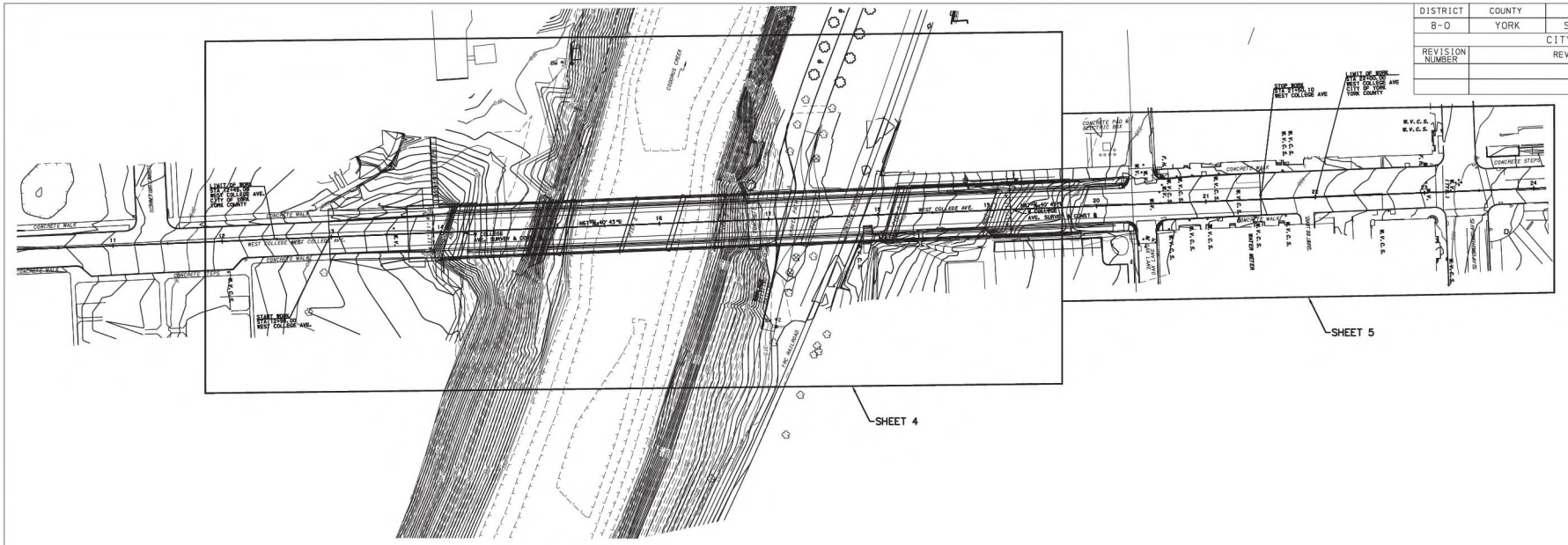
REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	1 OF 6

20" STEEL CASING PIPE	WATER UTILITY HANGER SUPPORT	20" WATER MAIN - CUT AND CAP	REMARKS	SIDE	STATIONS
9000 1000 LF	9000 1001 EACH	9000 1002 EACH	ITEM NUMBER UNIT		
			ENTIRE PROJECT		
655			BETTERMENT	LT	13+60.00 to 20+15.00
		2	COST SHARE	LT / RT	14+00.00 to 14+25.00
	20		BETTERMENT	LT	14+20.00 to 18+15.00
655	20	2	TOTALS		

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STACI ANN HARTZ
ENGINEER
No. PE085823
11/21/2025

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 11/20/2025 1:50:57 PM

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	2 OF 6
CITY OF YORK				
REVISION NUMBER	REVISIONS		DATE	BY



DRAWING INDEX

SCALE: 1" = 50'

GENERAL NOTES

THE GENERAL NOTES APPLY TO ALL CONSTRUCTION UNDER THIS CONTRACT.

1. THE AREAS IN WHICH WATER CASING PIPES, STRUCTURES AND APPURTENANCES ARE TO BE CONSTRUCTED UNDER THIS CONTRACT MAY CONTAIN EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES AND STRUCTURES WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE DATA PERTAINING TO THE MATERIAL, SIZE, LOCATION AND DEPTH OF EXISTING UTILITIES THAT ARE SHOWN ON THESE DRAWINGS ARE FOR GENERAL INFORMATION AND GUIDANCE ONLY. THE EXACT LOCATION, DEPTH, SIZE, MATERIAL AND TYPE OF EXISTING UNDERGROUND UTILITIES WITHIN THE LIMITS OF THE WORK SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE CONDITIONS CONTAINED IN THE CONTRACT.

2. THE CONTRACTOR SHALL EXERCISE EXTREME CARE IN EXCAVATION FOR ALL UNDERGROUND PIPELINES AND FACILITIES TO PREVENT ACCIDENTAL DAMAGE TO EXISTING UTILITIES AND ADJACENT BUILDINGS AND STRUCTURES. THE CONTRACTOR SHALL PROTECT AND SUPPORT ALL EXPOSED LINES, OR OTHER FACILITIES AND SHALL SUPPORT AND MAINTAIN THE SAFETY AND STRUCTURAL INTEGRITY OF ADJACENT BUILDINGS AND STRUCTURES WITHIN OR DIRECTLY ADJACENT TO THE RIGHTS-OF-WAY INDICATED. RESTORATION OF DAMAGED BUILDINGS, STRUCTURES, PIPING, CABLES, CONDUITS, WIRING AND APPURTENANCES SHALL BE AT NO COST TO THE OWNERS OF SAID BUILDINGS, STRUCTURES AND UTILITIES, OWNER OR THE REPRESENTATIVE.

3. IN THE EVENT OF DAMAGE TO UTILITIES, BUILDINGS OR STRUCTURES THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY, STRUCTURE OR BUILDING OWNER AND THE ENGINEER, AND BE PREPARED TO IMMEDIATELY MAKE COMPLETE RESTORATION AND REPAIR OF THE DAMAGED FACILITY TO THE SATISFACTION OF THE UTILITY, STRUCTURE OR BUILDING OWNER. NO REPAIR OF THE UTILITY IS TO COMMENCE UNLESS AUTHORIZED BY THE UTILITY, STRUCTURE OR BUILDING OWNER OR THREAT OF DAMAGE TO PROPERTY OR PERSONS IS IMMINENT.

4. THE CONTRACTOR IS NOTIFIED THAT OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) CLEARANCES MUST BE MAINTAINED TO OVERHEAD POWER LINES FROM ANY CONSTRUCTION EQUIPMENT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF OSHA STANDARDS IN THIS REGARD.

5. OSHA EXCAVATION STANDARDS SHALL APPLY TO THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE PROJECT SITE.

6. THE CONTRACTOR SHALL ENDEAVOR TO MINIMIZE DAMAGE TO EXISTING STRUCTURES, MAILBOXES, SHEDS, SIGNS, TREES, ETC. WHEN SUCH ITEMS CANNOT BE AVOIDED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL EXPENSE TO OWNER OR ENGINEER. THE MAIL SERVICE IS TO BE MAINTAINED AT ALL TIMES.

7. CONTRACTOR MUST COORDINATE AND COMPLY WITH THE POWER COMPANY (OVERHEAD POWER LINES) REQUIREMENTS.

8. ALL STRUCTURES, DRIVEWAYS AND DRAINAGE FACILITIES DISTURBED DURING THE WORK SHALL BE REPLACED IN KIND.

9. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF ACT 287 (1974) AS AMENDED PRIOR TO CONSTRUCTION.

10. THE CONTRACTOR SHALL FIELD VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AT THE PROJECT SITE.

11. UNLESS OTHERWISE INDICATED, ALL FINISHED GRADES SHALL MATCH EXISTING GRADES.

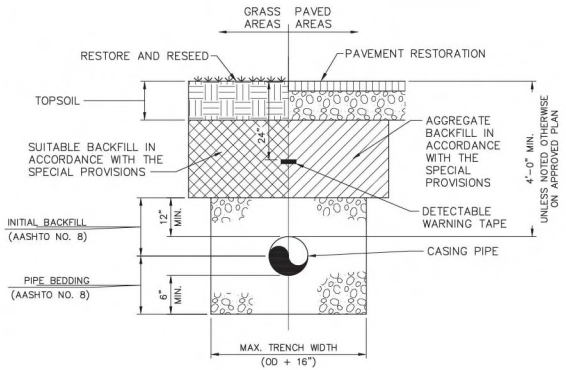
WATER UTILITY PLAN
THE YORK WATER COMPANY

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

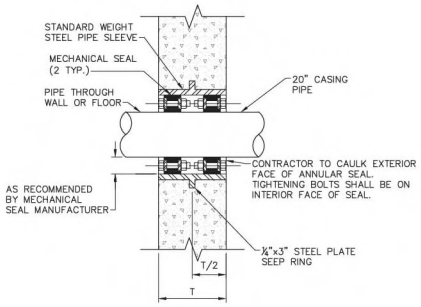
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACI ANN HARTZ
No. PE085603

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	3 OF 6
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



PIPE TRENCH DETAIL
NOT TO SCALE



ABUTMENT WALL SLEEVE
NOT TO SCALE

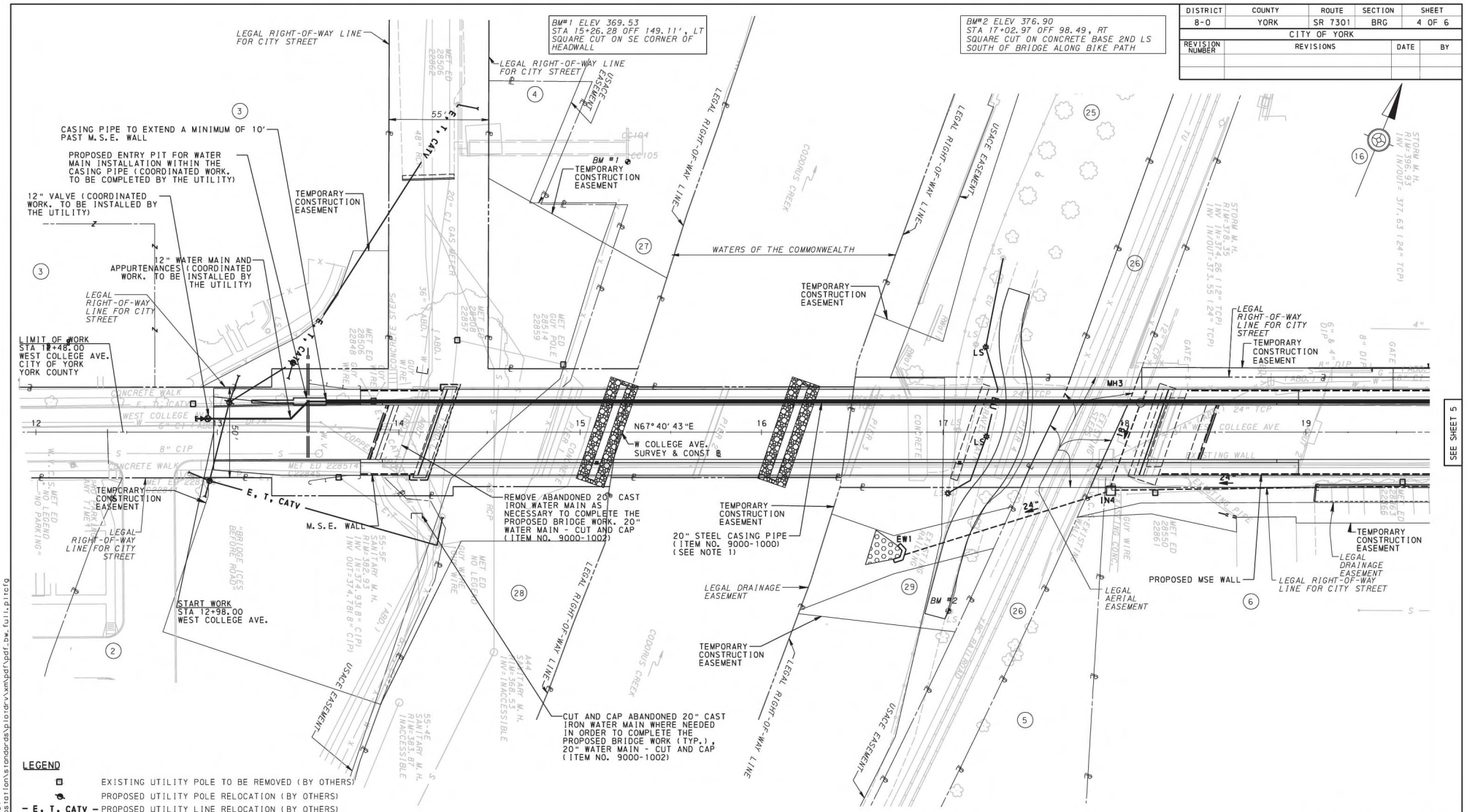
INSTALLATION OF WATER FACILITIES

DESCRIPTION	UNIT	QTY.	PROVIDED BY	INSTALLED BY
20" STEEL CASING PIPE AND APPURTENANCES	LF	655	CONTRACTOR	CONTRACTOR
WATER UTILITY HANGER SUPPORT	EA	20	CONTRACTOR	CONTRACTOR
2" PIPE INSULATION	LF	655	UTILITY	UTILITY
CASING SPACERS	EA	110	UTILITY	UTILITY
CASING PIPE END SEALS	EA	6	UTILITY	UTILITY
12" DR-18 FUSIBLE PVC PIPE AND FITTINGS	LF	674	UTILITY	UTILITY
12" DI WATER MAIN AND PIPE FITTINGS	LF	109	UTILITY	UTILITY
12" GATE VALVE	EA	2	UTILITY	UTILITY
12" EXPANSION JOINT	EA	2	UTILITY	UTILITY
20" CAP	EA	2	CONTRACTOR	CONTRACTOR

WATER UTILITY PLAN
THE YORK WATER COMPANY

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
STACI ANN HARTZ
ENGINEER
No. PE085623



DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	4 OF 6

CITY OF YORK

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- ☐ EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)
- PROPOSED UTILITY POLE RELOCATION (BY OTHERS)
- E, T, CATV — PROPOSED UTILITY LINE RELOCATION (BY OTHERS)

NOTES:

1. REFER TO THE STRUCTURE PLANS FOR ADDITIONAL INFORMATION RELATED TO DIAPHRAGM SPACING AND DESIGN AND WATER MAIN HANGER SUPPORT SPACING AND DETAIL.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE CASING PIPE WITH THE CONSTRUCTION OF THE MSE WALL TO ENSURE PROPER ALIGNMENT AND SEQUENCING.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, SELECTION, AND IMPLEMENTATION OF THE METHOD USED TO JOIN THE GALVANIZED STEEL CASING PIPE SECTIONS. THIS INCLUDES, BUT NOT LIMITED TO, WELD DESIGN, MECHANICAL COUPLINGS, SLEEVES, OR ANY OTHER APPROVED JOINING SYSTEM CAPABLE OF ACCOMMODATING THERMAL EXPANSION AND CONTRACTION AND SETTLEMENT. THE CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS AND DESIGN CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE COMMONWEALTH OF PENNSYLVANIA, FOR REVIEW PRIOR TO FABRICATION OR INSTALLATION.

SCALE

0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

WATER UTILITY PLAN
THE YORK WATER COMPANY

FOR PROFILE, SEE SHEET 6

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL STACI ANN HARTZ ENGINEER No. PE085603

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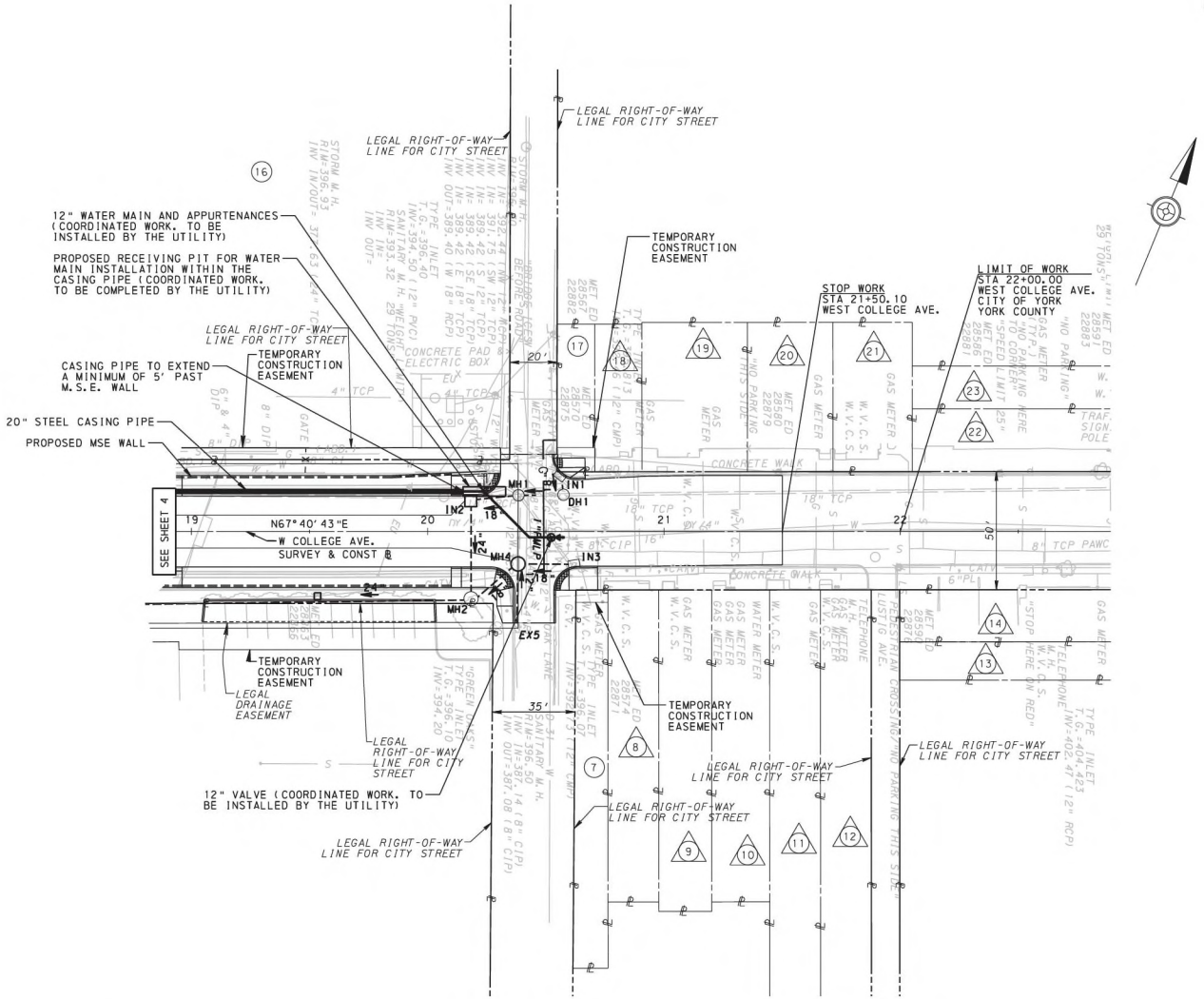
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	5 OF 6
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



LEGEND

- EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)
- PROPOSED UTILITY POLE RELOCATION (BY OTHERS)
- E, T, CATV – PROPOSED UTILITY LINE RELOCATION (BY OTHERS)

NOTES:

1. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE CASING PIPE WITH THE CONSTRUCTION OF THE MSE WALL TO ENSURE PROPER ALIGNMENT AND SEQUENCING.

SCALE

0 25 50 FEET

SURVEY BOOK NUMBER 003721.0429

WATER UTILITY PLAN
THE YORK WATER COMPANY

FOR PROFILE, SEE SHEET 6

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL ENGINEER
STACI ANN HARTZ
No. PE085603

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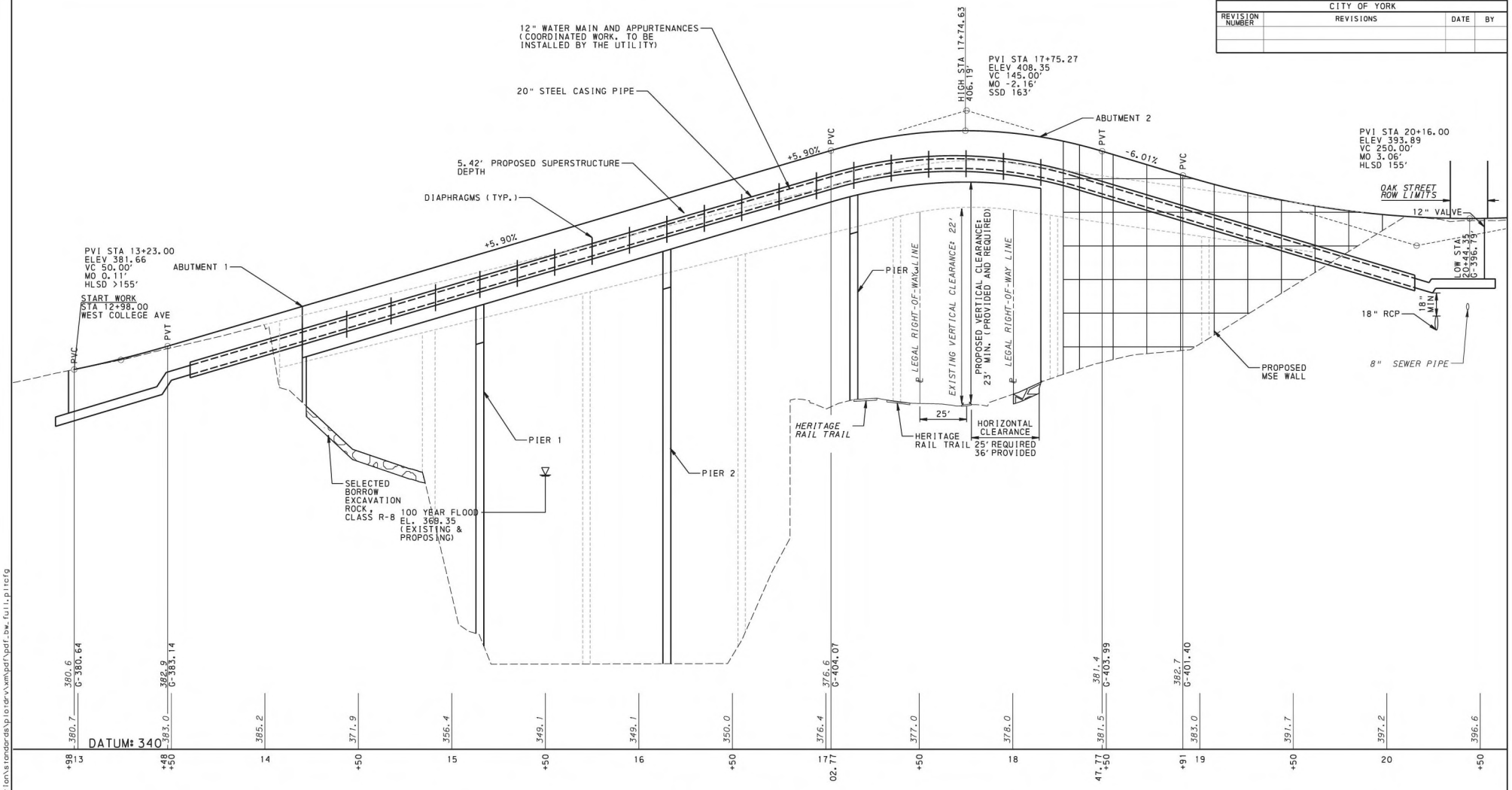
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	6 OF 6
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



NOTES:

1. THE CONTRACTOR SHALL INSTALL THE CASING PIPE EXACTLY AS SHOWN ON THE PROFILE AND SHALL NOT DEVIATE FROM THE INDICATED ALIGNMENT OR SLOPE. THE CASING PIPE SHALL BE INSTALLED TRUE TO LINE AND GRADE AND MUST REMAIN FREE OF BENDS, DEFLECTIONS, OR DISTORTIONS TO ENSURE PROPER INSTALLATION OF THE WATER MAIN SLIPLINING.
2. THE CONTRACTOR SHALL CERTIFY IN WRITING THAT THE CASING PIPE HAS BEEN INSTALLED IN FULL ACCORDANCE WITH THE CONTRACT DRAWINGS AND SPECIAL PROVISIONS, INCLUDING ALIGNMENT, SLOPE, AND TOLERANCES. THE CERTIFICATION SHALL ALSO CONFIRM THAT THE CASING PIPE IS READY AND SUITABLE FOR THE INSTALLATION OF THE WATER MAIN AND IS FREE OF ANY DEFECTS, OBSTRUCTIONS, OR CONDITIONS THAT WOULD IMPEDE SLIPLINING.

PROFILE - WEST COLLEGE AVE

SCALE

HORIZONTAL 0 25 50 FEET

VERTICAL 0 5 10 FEET

FOR PLAN SEE SHEETS 4-5

SURVEY BOOK NUMBER 003721.0429

WATER UTILITY PLAN
THE YORK WATER COMPANY

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER STACI ANN HARTZ No. PE085623

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	1 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

GENERAL NOTES

1. BEFORE INITIATING ANY REVISION TO THE APPROVED EROSION AND SEDIMENT CONTROL PLAN OR TO ANY OTHER PLANS THAT MAY CHANGE THE EFFECTIVENESS OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, CONTACT THE YORK COUNTY CONSERVATION DISTRICT TO RECEIVE APPROVAL.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
3. CONTRACTOR SHALL UTILIZE TOPSOIL STOCKPILE LOCATION(S), INSTALL COMPOST FILTER SOCK DOWN SLOPE OF THE STOCKPILE LOCATION, AND STRIP AND STOCKPILE TOPSOIL ONLY AS NECESSARY FOR THE REQUIRED IMPROVEMENTS. TOPSOIL STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET. STOCKPILE SIDE SLOPES MUST BE 3:1 OR FLATTER.
4. AT LEAST 7 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, THE CONTRACTOR SHALL INVITE ALL OPERATORS INVOLVED IN THOSE ACTIVITIES, THE LANDOWNER, ALL APPROPRIATE MUNICIPAL OFFICIALS, THE EROSION AND SEDIMENT CONTROL PLAN PREPARER, AND A REPRESENTATIVE OF THE COUNTY CONSERVATION DISTRICT TO AN ON-SITE PRE-CONSTRUCTION MEETING.
5. AT LEAST 3 DAYS BEFORE STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THOSE ACTIVITIES SHALL NOTIFY PENNSYLVANIA ONE-CALL SYSTEM INCORPORATED AT 1 (800) 242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
6. ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE CONSTRUCTION SEQUENCE NOTED ON THESE PLANS. EACH STAGE SHALL BE COMPLETED AND IMMEDIATELY STABILIZED BEFORE ANY FOLLOWING STAGE IS INITIATED.
7. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS) TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
8. WHEN THE ENGINEER, MUNICIPAL OFFICIAL, OR COUNTY CONSERVATION DISTRICT REPRESENTATIVE DETERMINES THAT EROSION CONTROL MEASURES INCLUDING COMPOST FILTER SOCK ARE NECESSARY THAT WERE NOT FORESEEN IN THE DESIGN STAGE, ESTIMATE THE EROSION POTENTIAL AND SELECT MEASURES THAT MEET ANY APPLICABLE REGULATIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP).
9. FILL MATERIAL FOR THE EMBANKMENTS SHALL BE FREE OF ROOTS, OR OTHER WOODY VEGETATION, ORGANIC MATERIAL, LARGE STONES, AND OTHER OBJECTIONABLE MATERIALS.
10. PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED SURFACE EROSION AND SUBSURFACE CHARACTERISTICS SUFFICIENT TO RESIST SLIDING AND OTHER MOVEMENTS.

LOCATION MAP

GENERAL NOTES CONT'D

11. UNTIL THE SITE IS STABILIZED, CONTRACTOR SHALL MAINTAIN ALL EROSION AND SEDIMENT CONTROL BMPS PROPERLY. MAINTENANCE SHALL INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, RE-GRADING, RESEEDING, RE-MULCHING AND RE-NETTING SHALL BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.
12. THE PERMITTEE AND CO-PERMITTEE MUST ENSURE THAT VISUAL SITE INSPECTIONS ARE CONDUCTED WEEKLY, AND AFTER EACH MEASURABLE PRECIPITATION EVENT BY QUALIFIED PERSONNEL, TRAINED AND EXPERIENCED IN EROSION AND SEDIMENT CONTROL, TO ASCERTAIN THAT THE EROSION AND SEDIMENT CONTROL (E&S) BMPS ARE OPERATIONAL AND EFFECTIVE IN PREVENTING POLLUTION TO THE WATERS OF THE COMMONWEALTH. A WRITTEN REPORT OF EACH INSPECTION SHALL BE KEPT, AND INCLUDE:
    A. A SUMMARY OF THE SITE CONDITIONS, E&S BMPS, AND COMPLIANCE; AND
    B. THE DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION.
13. ANY SEDIMENT REMOVED FROM BMPS DURING CONSTRUCTION WILL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING.
14. ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA. CODE 260.1 ET SEQ. 271.1, AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED, OR DISCHARGED AT THE SITE.
15. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REMOVAL OF ANY EXCESS MATERIAL AND MAKE SURE THE SITE(S) RECEIVING THE EXCESS HAS AN APPROVED EROSION AND SEDIMENT CONTROL PLAN THAT MEETS THE CONDITIONS OF CHAPTER 102 AND/OR OTHER STATE OR FEDERAL REGULATIONS.
16. CONTRACTOR IS RESPONSIBLE FOR PREPARING AND HAVING AVAILABLE ONSITE PREPAREDNESS, PREVENTION, AND CONTINGENCY (PPC) PLAN.
17. GRADING OPERATIONS WILL BE CONDUCTED IN SUCH A WAY THAT THE AREAS OF UNPROTECTED SOIL ARE KEPT TO A MINIMUM. THE WORK AREA WILL BE KEPT WELL DRAINED AND CONCENTRATION OF WATER AVOIDED.
18. PRIOR TO SUSPENSION OF CONSTRUCTION OPERATIONS FOR AN APPRECIABLE LENGTH OF TIME, THE CONTRACTOR WILL BE REQUIRED TO SHAPE THE TOP OF EARTHWORK IN SUCH A MANNER AS TO ALLOW RUNOFF OF RAINWATER WITHOUT UNDUE RESIDUE.
19. IMMEDIATELY AFTER EARTH DISTURBANCE CEASES, THE CONTRACTOR SHALL STABILIZE THE DISTURBED AREAS. DURING NON-GERMINATING PERIODS, MULCH MUST BE APPLIED AT THE SPECIFIED RATES. DISTURBED AREAS WHICH ARE NOT AT FINISHED GRADE AND WHICH WILL BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY VEGETATIVE STABILIZATION SPECIFICATIONS. DISTURBED AREAS WHICH ARE AT FINAL GRADE OR WHICH WILL NOT BE RE-DISTURBED WITHIN ONE YEAR MUST BE STABILIZED IN ACCORDANCE WITH THE PERMANENT VEGETATIVE STABILIZATION SPECIFICATIONS.
20. CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. (THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.)
21. FOR ANY PLACEMENT OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, THE CONTRACTOR MUST SUBMIT FORM FP-001 TO CERTIFY THE ORIGIN OF THE FILL MATERIAL AND THE RESULTS OF THE ANALYTICAL TESTING TO QUALIFY THE MATERIAL AS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE OWNER OF THE PROPERTY RECEIVING THE FILL.
22. ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED TO DETERMINE IF THE FILL MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTIONS, ELECTRONIC DATA BASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND/OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF REGULATED SUBSTANCE. IF THE FILL MAY HAVE BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE, IT MUST BE TESTED TO DETERMINE IF IT QUALIFIES AS CLEAN FILL. TESTING SHOULD BE PERFORMED IN ACCORDANCE WITH APPENDIX A OF THE DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."
23. BACKFILL MATERIAL AND/OR CONSTRUCTION MATERIAL SHALL NOT BE STORED IN THE FLOODWAY AND/OR WETLANDS.
24. THE NATURALLY OCCURRING GEOLOGIC FEATURES ARE NOT ANTICIPATED TO HAVE ANY IMPACT ON THE PROJECT. THE SOIL TYPES IN THE AREA OF DISTURBANCE DO NOT POSE THE POTENTIAL FOR POLLUTION. THE E&S PLAN CONTAINS BMPS TO MINIMIZE THE IMPACTS OF CONSTRUCTION TO THE SURROUNDING AREAS.
25. THE PROPOSED BRIDGE REPLACEMENT WILL NOT INCREASE THE IMPERVIOUS AREA AT THE SITE AND THEREFORE IT IS NOT ANTICIPATED TO CREATE ANY POTENTIAL THERMAL IMPACTS.
26. DURING DEMOLITION AND CONSTRUCTION OF THE EXISTING AND PROPOSED STRUCTURES, ALL DEBRIS SHALL BE PREVENTED FROM ENTERING THE WATERCOURSE.

TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES

1. TEMPORARY SEEDING/MULCHING
    A. CONTRACTOR SHALL USE PENNDOT PUBLICATION 408 FORMULA T TEMPORARY GRASS MIX SEEDING (OATS (SPRING) OR CEREAL RYE (FALL), 100 PERCENT BY WEIGHT), OR EQUIVALENT, FOR TEMPORARY SEEDING. PLACE AT THE RATE OF 6 POUNDS PER 1,000 SQUARE YARDS. APPLY TEMPORARY SEEDING TO THOSE AREAS THAT ARE A POTENTIAL EROSION PROBLEM DURING CONSTRUCTION AND TO THOSE AREAS EXPOSED FOR LONGER THAN 20 CALENDAR DAYS. IF CONDITIONS DO NOT PERMIT TEMPORARY SEEDING, MULCHING SHALL BE EMPLOYED.
    B. CONTRACTOR SHALL PERFORM ALL SITE PREPARATIONS INCLUDING LIMING, FERTILIZING, TIME AND METHOD OF SEEDING IN ACCORDANCE WITH PENNDOT PUBLICATION 408.
    C. IN PLACES WHERE EROSION IS A PROBLEM DURING THE GROW-IN PHASE OF THE COURSE, CONTRACTOR MAY USE MULCH TO HELP STABILIZE THOSE AREAS. MULCH SHALL CONSIST OF STRAW APPLIED AT A RATE OF 1,200 POUNDS PER 1,000 SQUARE YARDS.
2. COMPOST FILTER SOCK

    CONTRACTOR SHALL PLACE COMPOST FILTER SOCK BARRIER DOWN SLOPE OF CRITICAL EROSION AREAS AND/OR AS SHOWN ON THE PLAN IN ORDER TO PREVENT SEDIMENT FROM ENTERING ONTO ADJACENT PROPERTIES AND EXITING THE SITE.
3. CONCRETE WASHOUT

    CONTRACTOR SHALL INSTALL CONCRETE WASHOUT AT LOCATIONS INDICATED ON THE DRAWINGS. CONTRACTOR SHALL USE CONCRETE WASHOUTS TO CLEAN DELIVERY VEHICLE. UNDER NO CIRCUMSTANCES IS WASH WATER FROM THE VEHICLES PERMITTED TO ENTER SURFACE WATERS.
4. TEMPORARY CAUSEWAY

    CONTRACTOR SHALL CONSTRUCT TEMPORARY CAUSEWAY AT THE LOCATION SHOWN ON THE PLANS AND ACCORDING TO THE DETAIL PROVIDED.
5. TEMPORARY STREAM DIVERSION

    CONTRACTOR SHALL INSTALL TEMPORARY STREAM DIVERSION AT LOCATIONS ON THE DRAWINGS. TEMPORARY STREAM DIVERSION SHALL BE INSTALLED PER PROVIDED DETAILS AND NOT TO BE REMOVED UNTIL INDICATED BY THE CONSTRUCTION STAGING.
6. TEMPORARY ROLLED EROSION CONTROL PRODUCTS

    CONTRACTOR TO PLACE TEMPORARY ROLLED EROSION CONTROL PRODUCTS ON ALL SLOPES 3:1 OR GREATER AND WITHIN 50' OF ALL SURFACE WATER AND MUST BE IN PLACE AND ANCHORED PRIOR TO SEEDING AND MULCHING.
7. ROCK CONSTRUCTION ENTRANCE

    CONTRACTOR SHALL INSTALL ROCK CONSTRUCTION ENTRANCE AT LOCATIONS INDICATED ON THE PLANS. REPLACE ANY LOST STONE IMMEDIATELY.
8. PUMPED WATER FILTER BAG

    CONTRACTOR SHALL UTILIZE A PUMPED WATER FILTER BAG WHENEVER EXCAVATIONS MUST BE PUMPED FOR DE-WATERING PURPOSES. FILTER BAG SHALL BE PLACED IN WELL-VEGETATED AREAS, WHERE POSSIBLE, AND DISCHARGE SHALL BE TO A STABLE, EROSION RESISTANT AREA DOWNSTREAM OF EXCAVATION.
9. INLET PROTECTION SILT BAG

    CONTRACTOR SHALL EQUIP INLETS EXPOSED TO RUNOFF FROM CONSTRUCTION (AS SHOWN ON PLAN) WITH SILT BAGS TO PREVENT SEDIMENT-LADEN RUNOFF FROM ENTERING THE STORM SEWER.

PLAN PREPARER

HERBERT, ROWLAND, & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

PA DEP

SOUTHCENTRAL REGIONAL OFFICE
909 ELMERTON AVENUE
HARRISBURG, PA 17110
(717) 705-4700

CONSERVATION DISTRICT

YORK COUNTY CONSERVATION DISTRICT
2401 PLEASANT VALLEY ROAD
SUITE 101, ROOM 139
YORK, PA 17402
(717) 840-7430

WATERS OF THE COMMONWEALTH

CODORUS CREEK IS DESIGNATED AS A WWF(WARM WATER FISHERY) WITH MIGRATORY FISHES (MF) PER CHAPTER 93, WATER QUALITY STANDARDS, OF THE PA CODE (TITLE 25, ENVIRONMENTAL PROTECTION).

CONSTRUCTION RESTRICTIONS

NONE

PLAN DATE:
AUGUST 28, 2025

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

12/03/2025

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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PLOT DRIVER: rtSYS - Microstation\standards\plotdrv\wmpdf\pdf_bw_full.plt.rfg

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	2 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

CONSTRUCTION STAGING AND DEMOLITION SEQUENCE

A. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), INVITE ALL CONTRACTORS, LAND OWNERS, APPROPRIATE MUNICIPAL OFFICIALS, AND REPRESENTATIVES FROM ANY OTHER GOVERNING AUTHORITY TO AN ON-SITE MEETING.

B. AT LEAST 3 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, NOTIFY THE PENNSYLVANIA ONE CALL SYSTEM INC AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.

C. PROCEED WITH ALL EARTH DISTURBANCE ACTIVITIES IN ACCORDANCE WITH THE SEQUENCE. COORDINATE ANY/ALL PROPOSED CHANGES TO THE APPROVED PLAN WITH THE ENGINEER. UPON REVIEW AND APPROVAL, PROCEED ACCORDING TO NOTE B.

D. ALL REFERENCES TO STABILIZATION BY SEEDING IMPLY THAT THE APPROPRIATE SOIL SUPPLEMENTS AND MULCH PROTECTION ARE ALSO PROVIDED PER THE E&S PLAN. UNLESS OTHERWISE NOTED, STABILIZE ALL LAWN AREAS WITH FORMULA B; ALL OTHER AREAS WITH FORMULA D; SLOPES 1V:3V OR STEEPER AND AREAS WITHIN 50' OF A STREAM WILL BE PROTECTED WITH ROLLED EROSION CONTROL PRODUCT. IF TEMPORARY STABILIZATION IS NEEDED, APPLY FORMULA F.

PRE-CONSTRUCTION

1. PERFORM A PRE-PROJECT SITE EVALUATION AND DETERMINE IF THERE ARE AREAS WITHIN THE LIMITS OF DISTURBANCE THAT SHOULD NOT BE DISTURBED DURING THE LIFE OF THE PROJECT.
2. CLEARLY MARK THE LIMITS OF DISTURBANCE AT THE LOCATIONS INDICATED ON THE PLAN. USE STAKES AND FLAGGING THAT ARE DURABLE ENOUGH TO LAST THE ENTIRE DURATION THAT THE DISTURBANCE WILL BE ACTIVE. INSTALL PROTECTIVE FENCING AROUND SENSITIVE AREAS SHOWN ON THE PLAN OR IDENTIFIED DURING THE PRE-PROJECT EVALUATION.

PHASE 1

1. IMPLEMENT THE WEST COLLEGE AVE VEHICLE AND PEDESTRIAN DETOURS.
2. INSTALL ROCK CONSTRUCTION ENTRANCE, CONCRETE WASHOUT, AND INLET PROTECTION AS INDICATED.
3. ESTABLISH STOCKPILE AND STAGING AREA. INSTALL COMPOST FILTER SOCK, INCLUDING DOWNSLOPE OF THE STOCKPILE LOCATION. STRIP AND STOCKPILE TOPSOIL ONLY AS NECESSARY FOR THE REQUIRED IMPROVEMENTS.
4. CLEAR AND GRUB THE PROPOSED WORK AREA.
5. CONSTRUCT THE EASTERN AND WESTERN TEMPORARY ACCESS ROADS.
6. CONSTRUCT THE PHASE 1 TEMPORARY CAUSEWAY AND PHASE 1 TEMPORARY STREAM DIVERSION.
7. DEMOLISH THE EXISTING BRIDGE SUPERSTRUCTURE; DECKING WILL BE LIFTED AND REMOVED OR DROPPED ONTO THE TEMP. CAUSEWAY, AND NOT DROPPED INTO THE CREEK. DEMOLISH EXISTING ABUTMENT 1, PIER 1, PIER 4, PIER 5, AND ABUTMENT 2. DURING DEMOLITION, ANY DEBRIS ENTERING THE STREAM SHALL BE IMMEDIATELY REMOVED.
8. DEMOLISH EXISTING PIER 2 AND PIER 3.DURING DEMOLITION, ANY DEBRIS ENTERING THE STREAM SHALL BE IMMEDIATELY REMOVED.
9. REMOVE THE PHASE 1 TEMPORARY CAUSEWAY AND PHASE 1 TEMPORARY STREAM DIVERSION.

PHASE 2

1. INSTALL THE PHASE 2 TEMPORARY STREAM DIVERSION AND PHASE 2 TEMPORARY CAUSEWAY.
2. CONSTRUCT PROPOSED PIER 1 AND PIER 2.
3. CONSTRUCT PROPOSED DRAINAGE STRUCTURES AND PIPES.
4. CONSTRUCT THE PROPOSED ABUTMENT 1, PIER 3, AND ABUTMENT 2 & MSE WALLS.
5. CONSTRUCT THE PROPOSED SUPERSTRUCTURE.
6. REMOVE THE PHASE 2 TEMPORARY STREAM DIVERSION AND PHASE 2 TEMPORARY CAUSEWAY.
7. REMOVE THE TEMPORARY ACCESS ROADS.
8. CONSTRUCT THE TRAIL RELOCATION.
9. CONSTRUCT THE PROPOSED PAVEMENT, CURB, SIDEWALK, GUIDE RAIL, PAVEMENT MARKINGS AND SIGNAGE.
10. REMOVE THE WEST COLLEGE AVE VEHICLE AND PEDESTRIAN DETOURS.
11. WHEN CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION HAS ESTABLISHED 70% UNIFORM COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION, REMOVE ALL REMAINING EROSION AND SEDIMENT POLLUTION CONTROL BMPS. DISPOSE OF ALL BMPS IN A LANDFILL OR OTHER APPROPRIATE OFF-SITE LOCATION. APPLY THE APPROPRIATE SEED FORMULA AND MULCHING OR RECP TO ANY DISTURBED AREAS RESULTING FROM THE REMOVAL OF A BMP.

LIMIT OF DISTURBANCE

DESCRIPTION	AREA (SF)	AREA (ACRES)
LIMIT OF DISTURBANCE	101,952	2.34
100-YEAR FLOODPLAIN	32,752	0.75
TOTAL DISTURBED AREA FOR NPDES PERMITTING PURPOSES	118,520	2.72

PROJECT SOIL TYPES

NAME	SLOPE	SYMBOL	DEPTH TO RESTRICTIVE FEATURE	HYDROLOGIC SOIL GROUP	DEPTH TO WATER TABLE
URBAN LAND	0 TO 8 PERCENT	Uc	10 INCHES TO DENSIC MATERIAL	N/A	N/A

TEMPORARY EROSION AND SEDIMENT POLLUTION CONTROL MEASURES DURING CONSTRUCTION

1. CONTRACTOR SHALL NOTIFY THE COUNTY CONSERVATION DISTRICT OF THE LOCATION OF THE STAGING AREAS. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THE EROSION CONTROLS NECESSARY FOR THE CONSTRUCTION OF THESE STAGING AREAS.
2. CONTRACTOR SHALL USE TEMPORARY SEEDING ON EXPOSED SLOPES THAT CANNOT BE PERMANENTLY SEEDED BECAUSE OF UNFAVORABLE SEEDING TIME.
3. DURING CONSTRUCTION, THE ROADBED WILL BE MAINTAINED IN SUCH CONDITION THAT IT WILL BE WELL-DRAINED AT ALL TIMES WITHOUT SERIOUS EROSION.
4. WHERE DUST OR WIND EROSION IS A PROBLEM, CONTRACTOR SHALL SPRINKLE UNSTABLE SURFACE(S) WITH WATER OR OTHER SUITABLE DUST SUPPRESSOR.
5. ANY TEMPORARY EROSION CONTROL MEASURES USED BY THE CONTRACTOR SHALL BE CONTINUED UNTIL THE VEGETATIVE COVER ON SLOPES IS SUFFICIENTLY ESTABLISHED.
6. CONTRACTOR SHALL EMPLOY MEASURES DURING CONSTRUCTION TO PREVENT SPILLS OF FUELS OR LUBRICANTS. IF A SPILL OCCURS, CONTROL IT IMMEDIATELY TO PREVENT ITS ENTRY INTO NEARBY WATERWAYS.
7. CONTRACTOR SHALL PERFORM EARTH MOVING ACTIVITIES IN A MANNER THAT MINIMIZES THE AMOUNT OF DISTURBED LAND. CLEAR AND GRUB ONLY IN THE AREAS DESCRIBED FOR EACH STAGE OF CONSTRUCTION.
8. CONTRACTOR SHALL DESIGNATE AT LEAST ONE INDIVIDUAL, WHO WILL BE PRESENT AT THE PROJECT SITE DAILY, WHO IS RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENTATION CONTROL.
9. CONTRACTOR SHALL MAINTAIN A MAINTENANCE PROGRAM FOR INSPECTION OF THE TEMPORARY CONTROLS ON A WEEKLY BASIS AND AFTER EACH MEASURABLE RAINFALL EVENT, INCLUDING THE REPAIR OF DAMAGED TEMPORARY CONTROLS.
10. UNLESS OTHERWISE INDICATED, CONTRACTOR SHALL ENSURE THAT ALL MATERIALS AND WORKMANSHIP CONFORMS TO THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408 SPECIFICATIONS, DATED 2020, CHANGE NO. 9.

PERMANENT EROSION AND SEDIMENT POLLUTION CONTROL MEASURES

1. PERMANENT SOIL PROTECTION WILL BE COMPLETED AS EARLY AS PRACTICAL.
2. PERMANENT SEEDING AND MULCHING WILL BE INCORPORATED INTO THE CONSTRUCTION PHASE DURING AN APPROVED PLANTING SEASON.
3. ALL AREAS DISTURBED BY CONSTRUCTION, OTHER THAN THOSE RECEIVING LANDSCAPING OR PAVING, SHALL BE STABILIZED BY APPLYING A SEED MIXTURE TO ESTABLISH AN EROSION RESISTANT STAND OF VEGETATION.

   THE FOLLOWING TYPES OF TREATMENT HAVE BEEN RECOMMENDED FOR THIS PROJECT:

   A. FORMULA B SEED MIXTURE (PENNDOT SPECIFICATIONS - LAWN AREAS WITH 3:1 SLOPES AND FLATTER) APPLIED AT A RATE OF 42 LBS. PER 1,000 S.Y.
   B. FORMULA L SEED MIXTURE (PENNDOT SPECIFICATIONS - ALL OTHER AREAS) APPLIED AT A RATE OF 48 LBS. PER 1,000 S.Y.
4. IMPLEMENT ALL PERMANENT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE PA DEP EROSION AND SEDIMENT CONTROL PROGRAM MANUAL UNLESS OTHERWISE NOTED.

SEEDING SCHEDULE

APPLICATION	SEEDING FORMULA	SPECIES	APPLICATION RATE	FERTILIZER	LIMING RATE	SEEDING DATE	MULCH	MULCH RATE
TEMPORARY	PENNDOT FORMULA T	OATS (SPRING) (AVENA SATIVA) CEREAL (FALL) (SECALE CEREALE)	6 LBS/1000 SY 6 LBS/1000 SY	SEE NOTE 1 BELOW	800LBS/ 1000 SY	3/15 TO 6/1 AND 8/1 TO 10/15	STRAW	1200 LBS/ 1000 SY****
LAWN AREAS WITH SLOPES 3:1 AND FLATTER	PENNDOT FORMULA B	PERENNIAL RYEGRASS MIXTURE* (LOLIUM PERENNE) CREEPING RED FESCUE OR CHEWINGS FESCUE (FESTUCA RUBRA OR SSP COMMUTATE) KENTUCKY BLUEGRASS MIXTURE** (POA PRATENSIS)	8.5 LBS/1000 SY 12.5 LBS/1000 SY 21 LBS/1000 SY	SEE NOTE 1 BELOW	800LBS/ 1000 SY	3/15 TO 6/1 AND 8/1 TO 10/15	STRAW	1200 LBS / 1000 SY****
ALL OTHER AREAS	PENNDOT FORMULA L	HARD FESCUE*** (FESTUCA LONGIFOLIA) CREEPING RED FESCUE (FESTUCA RUBRA) ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	26.4 LBS/1000 SY 16.8 LBS/1000 SY 4.8 LBS/1000 SY	SEE NOTE 1 BELOW	800LBS/ 1000 SY	3/15 TO 6/1 AND 8/1 TO 10/15	STRAW	1200 LBS / 1000 SY****

1. FERTILIZER SHALL BE APPLIED IN ACCORDANCE WITH A SOIL TEST. IN THE ABSENCE OF A SOIL TEST, FERTILIZER SHALL BE APPLIED AS FOLLOWS:
   A. 10-20-20 ANALYSIS COMMERCIAL FERTILIZER AT 140 LBS/1000 SY
   AND
   B. 38-0-0 UREAFORM FERTILIZER AT 50 LBS/1000 SY
   OR
   32-0-0 TO 38-0-0 SULFUR COATED UREA FERTILIZER AT 59-50 LBS/1000 SY AS DIRECTED
   OR
   31-0-0 IBDU FERTILIZER AT 61 LBS/1000 SY
2. SPECIFICATION ITEMS OBTAINED USING PENNDOT PUBLICATION NO. 408
3. ALL AREAS RECEIVING PERMANENT SEEDING SHALL HAVE A MINIMUM OF 4" OF ORGANIC TOPSOIL.
4. MULCH CONTROL NETTING MUST BE PLACED ON ALL SLOPES STEEPER THAN 3:1

* PERENNIAL RYEGRASS: A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL RYEGRASS COMPONENT.
** KENTUCKY BLUEGRASS: A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL BLUEGRASS COMPONENT.
*** HARD FESCUE: A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT.
**** MULCH TO BE ANCHORED WITH WOOD CELLULOSE FIBER AT 160 LBS/1000 SY OR EQUAL.

MAINTENANCE OF EROSION AND SEDIMENT POLLUTION CONTROL MEASURES

1. CHECK ALL SEDIMENT AND EROSION CONTROL FACILITIES FOR DAMAGE WEEKLY AND AFTER EACH STORM. REPLACE ALL FACILITIES THAT ARE DAMAGED, CLOGGED, OR CAN NO LONGER FUNCTION AS INTENDED.
2. DOCUMENT ALL SITE INSPECTIONS IN AN INSPECTION LOG KEPT FOR THIS PURPOSE WITH THE COMPLIANCE ACTIONS, DATE, TIME, AND THE NAME OF THE PERSON CONDUCTING THE INSPECTION. KEEP THE INSPECTION LOG ON-SITE AT ALL TIMES AND AVAILABLE UPON REQUEST BY THE COUNTY CONSERVATION DISTRICT.
3. PERFORM IMMEDIATELY ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING. IF EROSION AND SEDIMENTATION BMPS FAIL TO PERFORM AS EXPECTED, REPLACE OR MODIFY BMPS AS NEEDED.
4. RECORD THE FOLLOWING INFORMATION IF BMPS CONTINUE TO FAIL TO ALLEVIATE EROSION AND SEDIMENT POLLUTION:
   a. RECORD LOCATION AND SEVERITY OF BMPS FAILURE.
   b. ALL STEPS TAKEN TO REDUCE, ELIMINATE AND PREVENT THE RECURRENCE OF THE NON-COMPLIANCE.
   c. THE TIME FRAME TO CORRECT THE NON COMPLIANCE, INCLUDING THE EXACT DATES WHEN THE ACTIVITY WILL RETURN TO COMPLIANCE.
5. ANY SEDIMENT REMOVED FROM BMPS DURING CONSTRUCTION SHALL BE RETURNED TO UPLAND AREAS ON SITE AND INCORPORATED INTO THE SITE GRADING.
6. ON ANY PERMANENT SEEDING AREAS THAT BECOME ERODED OR DISTURBED, CONTRACTOR SHALL REPLACE THE TOPSOIL, RE-SOW THE GRASS, AND APPLY MULCH.
7. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL FACILITIES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN.
8. THE CONTRACTOR IS RESPONSIBLE FOR ALL OFF-SITE EROSION AND SEDIMENT POLLUTION CONTROL.
9. CONTRACTOR SHALL REMOVE FROM THE SITE, RECYCLE OR DISPOSE OF ANY EXCESS MATERIAL IN A MANNER APPROVED BY PA DEP.

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074280

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
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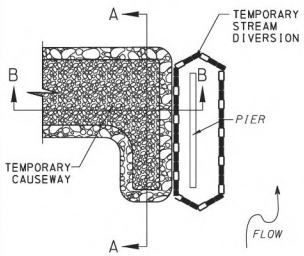
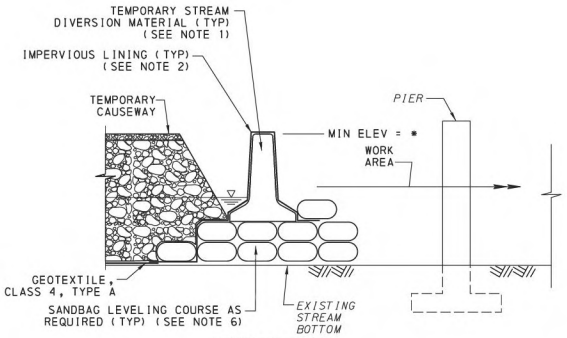
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

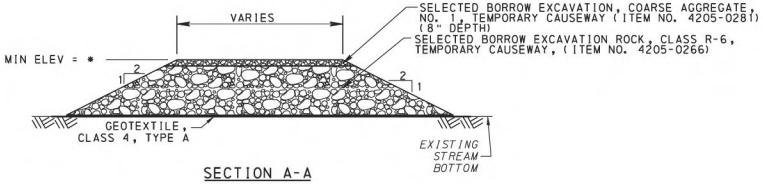


PLAN VIEW
NOT TO SCALE



SECTION B-B
NOT TO SCALE

PHASE	* MINIMUM ELEVATION
1	355.00
2	355.00

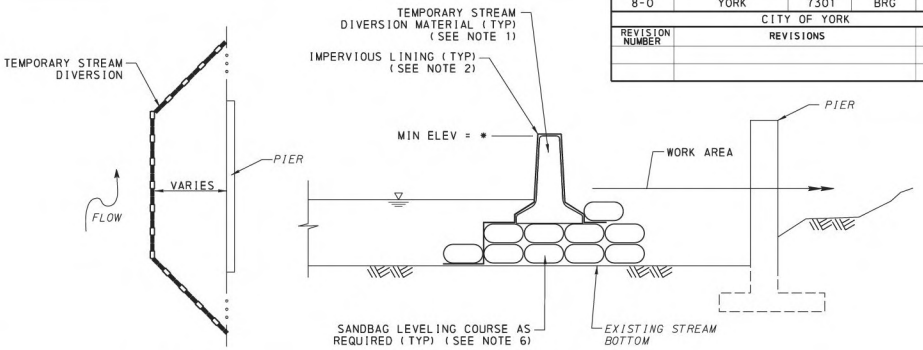


SECTION A-A
NOT TO SCALE

TEMPORARY CAUSEWAY

TEMPORARY CAUSEWAY / STREAM DIVERSION NOTES:

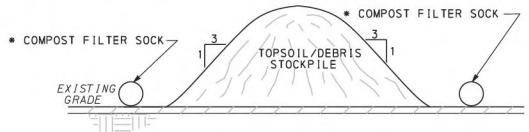
1. TEMPORARY STREAM DIVERSION ALTERNATIVES INCLUDE THE FOLLOWING CLEAN MATERIALS:
   - SANDBAGS
   - CONCRETE BLOCKS
   - CONCRETE BARRIER OR GLARE SCREEN
2. IMPERVIOUS LINING WILL BE REQUIRED TO PREVENT WATER FROM PENETRATING THE WORK AREA. THE IMPERVIOUS LINING SHOULD BE ANCHORED AT THE TOP AND AT THE STREAMBED WITH A SANDBAG OR ANOTHER FORM OF WEIGHT TO KEEP THE LINING IN PLACE.
3. WORK AREAS BEHIND THE TEMPORARY STREAM DIVERSION SHOULD BE KEPT AS DRY AS POSSIBLE, ANY WATER THAT PENETRATES THE TEMPORARY STREAM DIVERSION SHOULD BE DISCHARGED THROUGH A PUMPED WATER FILTER BAG.
4. USE OF TEMPORARY STREAM DIVERSION DEVICE MATERIALS OTHER THAN THOSE LISTED IN NOTE 1 REQUIRES WRITTEN APPROVAL FROM DEP.
5. PLACE TEMPORARY STREAM DIVERSION DEVICE IN THE LOCATIONS SHOWN ON THE DRAWINGS AND PER THE PLAN VIEW IN THIS SHEET.
6. USE SANDBAGS UNDER THE TEMPORARY STREAM DIVERSION TO ACCOMMODATE UNEVEN/ROCKY EXISTING STREAM BOTTOM AND ANY SCOURED AREAS.
7. CONSTRUCT TEMPORARY CAUSEWAY USING CLEAN ROCK FILL TO GUARD AGAINST EROSION AND SEDIMENTATION. DO NOT USE STREAMBED MATERIAL.
8. TEMPORARY CAUSEWAY ELEVATION INCLUDES 1.5 FEET OF FREEBOARD.
9. HEIGHT OF TEMPORARY CAUSEWAY OR TEMPORARY STREAM DIVERSION LESS THAN ELEVATIONS SPECIFIED TO BE AT THE DISCRETION AND RISK OF CONTRACTOR AND ACTUAL FIELD CONDITIONS.



PLAN VIEW
NOT TO SCALE

ELEVATION VIEW
NOT TO SCALE

TEMPORARY STREAM DIVERSION (ITEM NO. 9000-0002)



* SEE COMPOST FILTER SOCK DETAIL FOR INSTALLATION

NOTE: STOCKPILE HEIGHTS SHALL NOT EXCEED 35 FEET.
STOCKPILE SLOPES SHALL BE 3 : 1 OR FLATTER.

TYPICAL STOCKPILE DETAIL

NOT TO SCALE

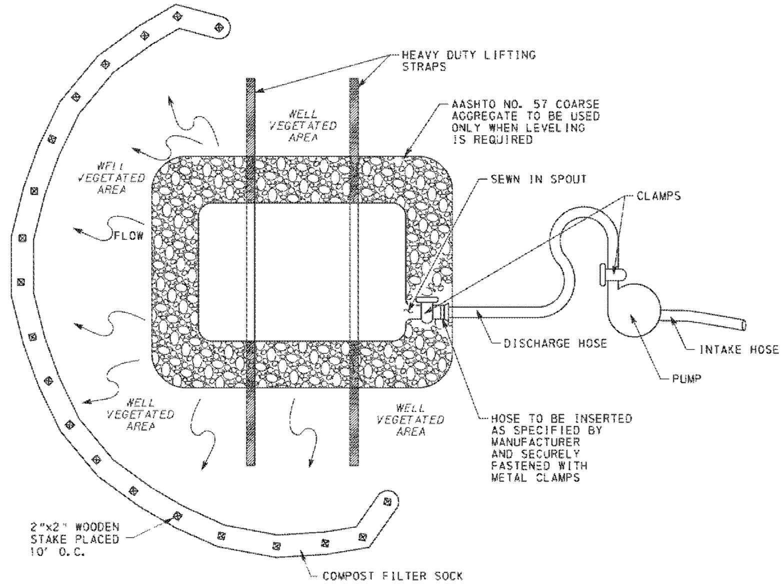
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

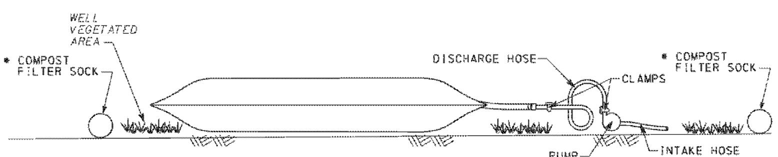
EROSION AND SEDIMENT POLLUTION CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	4 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



TOP VIEW



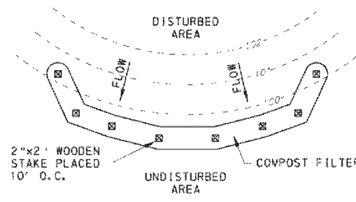
SIDE VIEW

* SEE COMPOST FILTER SOCK DETAIL FOR INSTALLATION

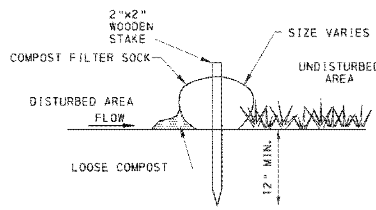
NOTES:
1. LOCATE BAG IN LEVEL AREAS (LESS THAN 5% GRADE). WHEN LEVEL AREAS ARE NOT AVAILABLE, PLACE AASHTO NO. 57 COARSE AGGREGATE TO LEVEL THE BAG.
2. LOCATE BAG IN A WELL VEGETATED AREA. DISCHARGE ONTO A STABLE, EROSION RESISTANT AREA. WHEN VEGETATED AREA IS NOT AVAILABLE, PROVIDE A GEOTEXTILE (CLASS 4, TYPE A) LINED FLOW PATH TO A STABLE EROSION RESISTANT RECEIVING WATER COURSE OR A WELL VEGETATED AREA.
3. LOCATE BAG IN AN AREA ACCESSIBLE BY EQUIPMENT FOR MAINTENANCE AND REMOVAL PURPOSES.
4. DO NOT INSERT MORE THAN ONE HOSE INTO A BAG.
5. REPLACE THE BAG WHEN 50% OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE.
6. REMOVE AND PROPERLY DISPOSE OF THE PUMPED WATER FILTER BAGS. RESTORE THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS IN PUBLICATION 408. DO NOT CUT FILTER BAG OR DISTRIBUTE AND SEED SEDIMENT.
7. DO NOT PERMIT DISCHARGE FROM THE BAG TO DRAIN BACK INTO WORK OR ACCESS AREAS OF THE PROJECT.

PUMPED WATER FILTER BAG (ITEM NO. 0855-0003)

NOT TO SCALE



PLAN VIEW

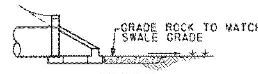


SECTION VIEW

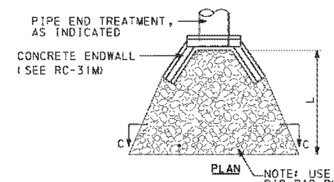
NOTES:
1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE SOCK SHALL BE EXTENDED AT LEAST 8' UP SLOPE AT 45° TO THE MAIN SOCK ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY SOCK SHALL NOT EXCEED THAT SHOWN IN THE PENNSYLVANIA EROSION CONTROL BEST MANAGEMENT PRACTICE MANUAL.
2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS FILTER SOCK.
3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES ½ THE ABOVE GROUND HEIGHT OF THE SOCK AND DISPOSED IN THE MANNER DESCRIBED IN THE PENNSYLVANIA EROSION CONTROL BEST MANAGEMENT PRACTICE MANUAL.
4. SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.
5. SOCK FABRIC AND COMPOST SHALL MEET THE STANDARDS OF THE LATEST VERSION OF THE PENNSYLVANIA EROSION CONTROL BEST MANAGEMENT PRACTICE MANUAL.
6. BIODEGRADABLE FILTER SOCK SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
7. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

COMPOST FILTER SOCK (ITEM NO. 0867-0012)

NOT TO SCALE



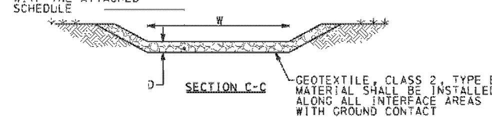
PROFILE



PLAN

NOTE: USE THIS CONFIGURATION FOR ALL RIP-RAP PLACEMENT AT ENDWALLS UNLESS OTHERWISE APPROVED

SIZE AND DEPTH OF ROCK SHALL BE IN ACCORDANCE WITH THE ATTACHED SCHEDULE



SECTION C-C

CONSTRUCT ALL APRONS TO THE DIMENSIONS SHOWN. ADJUST TERMINAL WIDTHS AS NECESSARY TO MATCH RECEIVING CHANNELS.

INSPECT ALL APRONS ON AT LEAST A WEEKLY BASIS AND AFTER EACH RUNOFF EVENT.

REPLACE DISPLACED RIPRAP WITHIN THE APRON IMMEDIATELY.

SCHEDULE

ENDWALL NO.	PIPE DIAMETER (DIA.)	LENGTH L	WIDTH W	RIPRAP SIZE	DEPTH D
EW1	24"	17'	23'	R-6	30"

ROCK APRON (ITEM NO. 0851-0003)

NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074280

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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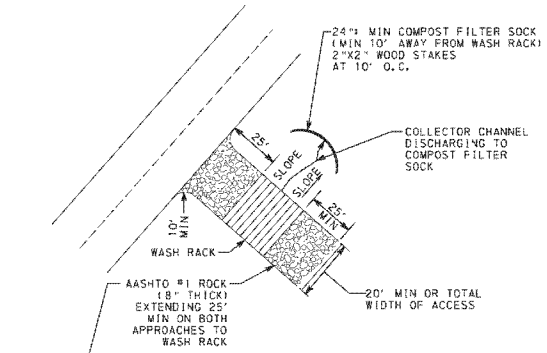
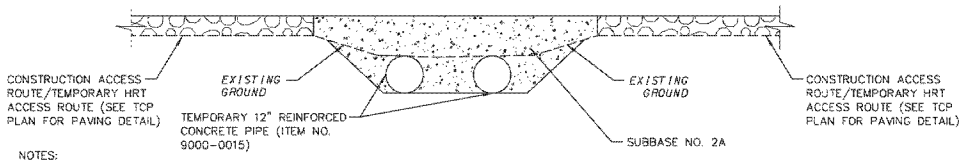
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



1. INSPECT THE ENTRANCE DAILY. ALL SEDIMENT DEPOSITED ON THE ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
2. MAINTAIN THE SPECIFIED ROCK CONSTRUCTION ENTRANCE THICKNESS. PLACE ADDITIONAL ROCK WHENEVER ROCK BECOMES CLOGGED WITH SEDIMENT.
3. MAINTAIN STOCKPILE OF AASHTO NO.1 COARSE AGGREGATE.
4. CONSTRUCT A MOUNTABLE BERM ONLY WHEN 6" MIN COVER CANNOT BE PROVIDED OVER THE PIPE.
5. SATISFACTORILY REMOVE MATERIALS AS SPECIFIED IN PUBLICATION 408, SECTION 849 WHEN ROCK CONSTRUCTION ENTRANCE IS NO LONGER NEEDED.
6. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 735, FURNISH AND INSTALL AS SPECIFIED IN PUBLICATION 408, SECTION 212. PROVIDE GEOTEXTILE ALONG ALL INTERFACE AREAS WITH GROUND CONTACT.
7. CONSTRUCT ROCK CONSTRUCTION ENTRANCE WITHIN THE RIGHT-OF-WAY OR EASEMENT AREAS. ENTRANCE MAY BE CONSTRUCTED ON A SKEW IF ADEQUATE PULL OUT SIGHT DISTANCE IS AVAILABLE.
8. DESIGN AND CONSTRUCT WASH RACK TO ACCOMMODATE CONSTRUCTION VEHICLE TRAFFIC.
9. PROVIDE WATER SUPPLY TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
10. KEEP DRAIN SPACE UNDER WASH RACK OPEN AT ALL TIMES.
11. REPAIR DAMAGE TO THE WASH RACK PRIOR TO FURTHER USE OF THE RACK.

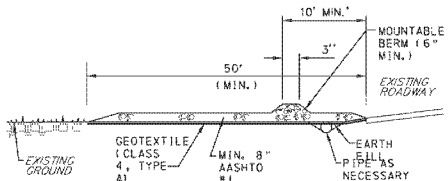
ROCK CONSTRUCTION ENTRANCE
WITH WASH RACK (ITEM NO. 0849-0020)
NOT TO SCALE



NOTES:

INSTALL PIPES AS REQUIRED TO MAINTAIN DRAINAGE FLOW THROUGH ACCESS ROUTES

TEMPORARY PIPE CROSSING
NOT TO SCALE



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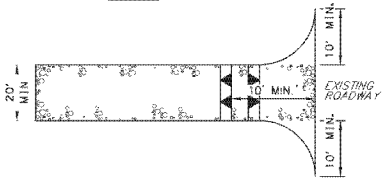

PLAN VIEW

NOTES:
1. TOPSOIL SHOULD BE REMOVED PRIOR TO INSTALLATION OF ROCK CONSTRUCTION ENTRANCE.
2. EXTEND ROCK OVER FULL DISTANCE OF ENTRANCE.
3. RUNOFF SHALL BE DIVERTED FROM ROADWAY TO A SUITABLE SEDIMENT REMOVAL BMP PRIOR TO ENTERING ROCK CONSTRUCTION ENTRANCE.
4. MOUNTABLE BERM SHOULD BE INSTALLED WHEREVER OPTIONAL CULVERT PIPE IS USED. PIPE TO BE SIZED APPROPRIATELY FOR SIZE OF DITCH BEING CROSSED.
5. MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. IF EXCESSIVE AMOUNTS OF SEDIMENT ARE BEING DEPOSITED ON ROADWAY, EXTEND LENGTH OF ROCK CONSTRUCTION ENTRANCE BY 50' INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL A WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE WAYS IS NOT ACCEPTABLE.

ROCK CONSTRUCTION ENTRANCE (ITEM NO. 0849-0010)
NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074289

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	6 OF 12
CITY OF YORK				

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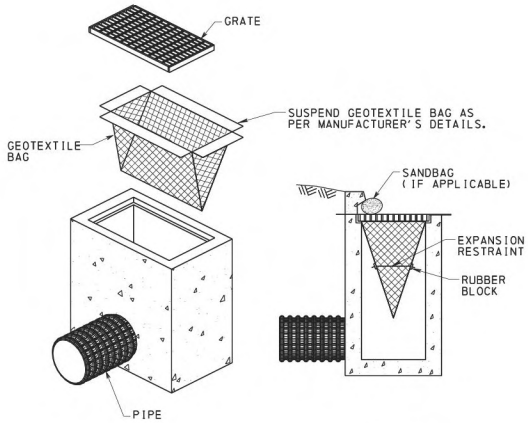
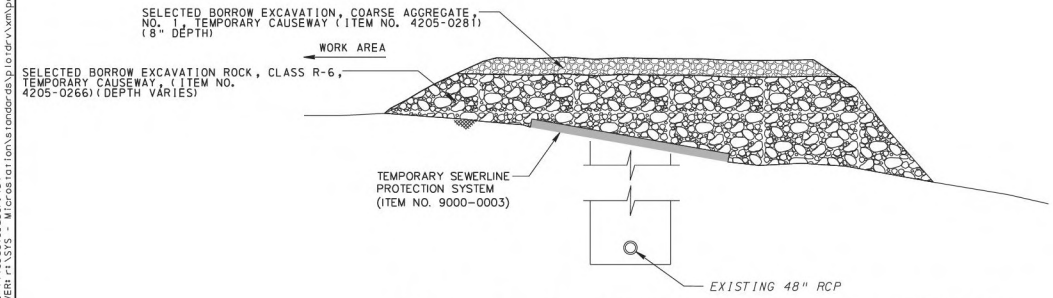


NOTES:

1. INSPECT INLET FILTER BAG AFTER EACH RUNOFF EVENT. MAINTAIN AS REQUIRED TO ENSURE PROPER FUNCTIONING OF THE BAG.
2. REMOVE ACCUMULATED SEDIMENT/DEBRIS WHEN THE INLET FILTER REACHES ONE-HALF MAXIMUM CAPACITY.
3. REPLACE FILTER BAG IF RIPPED OR TORN.
4. PROVIDE DOWN GRADIENT BERM AS REQUIRED. DO NOT USE IN SAG/SUMP CONDITIONS.
5. USE SANDBAGS AT TYPE C INLET CURB OPENINGS TO PREVENT BYPASS FLOW.
6. REMOVE AND PROPERLY DISPOSE OF INLET FILTER BAG WHEN NO LONGER NEEDED.

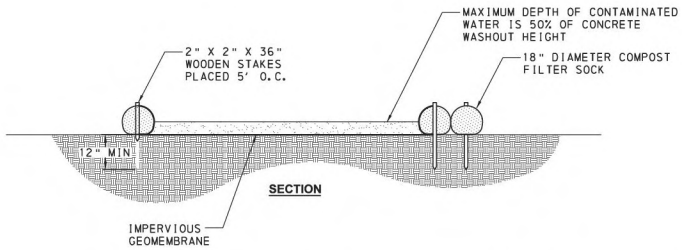
INLET FILTER BAG FOR TYPE C INLET (ITEM NO. 0860-0002)

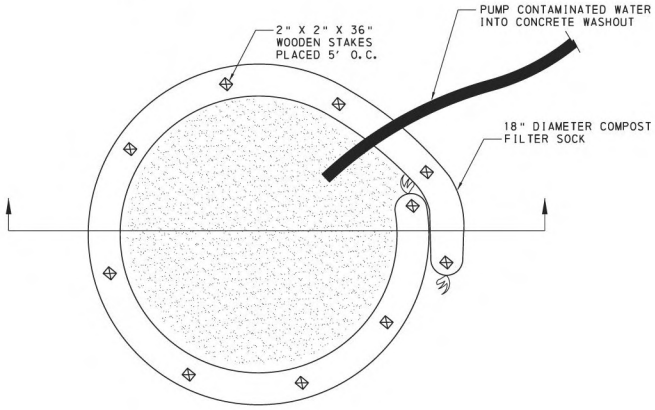
NOT TO SCALE



TEMPORARY SEWERLINE PROTECTION SYSTEM (ITEM NO. 9000-0003)

NOT TO SCALE





NOTES:

1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE
2. CONCRETE WASHOUT MAY BE STACKED IN A PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT AND STABILITY
3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS

CONCRETE WASHOUT

(INCIDENTAL TO CONSTRUCTION ITEMS)

NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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CITY OF YORK				

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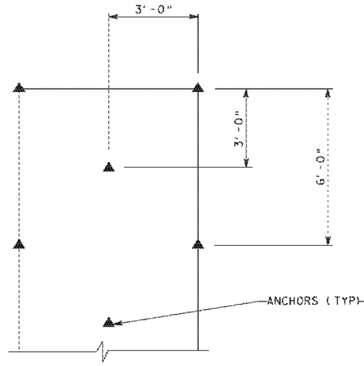
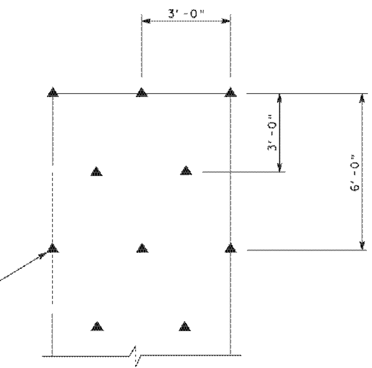
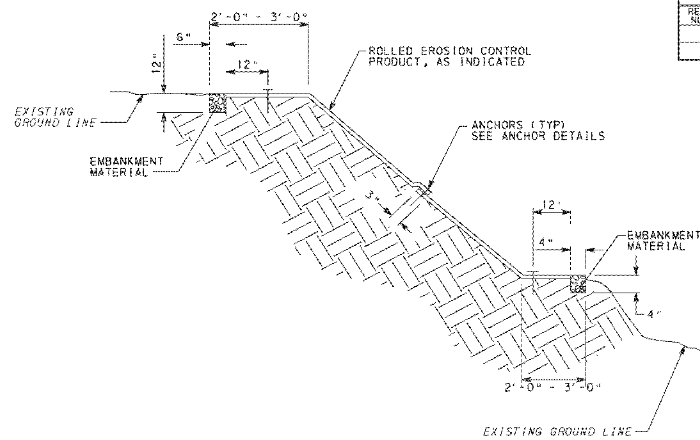


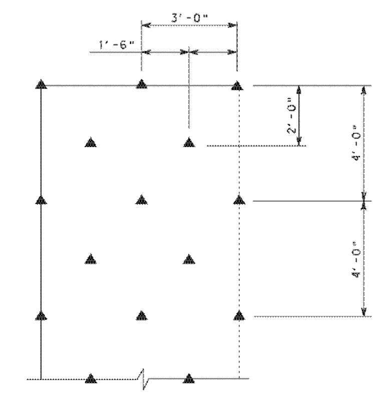
ANCHOR PATTERN FOR
SLOPES FLATTER THAN 3H:1V
PLACE 1 ANCHORS/SY



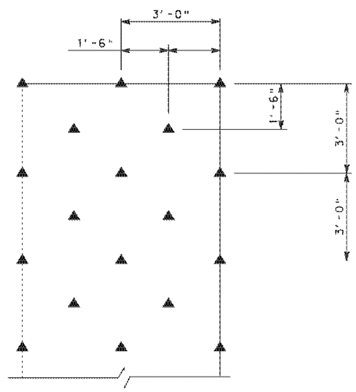
ANCHOR PATTERN FOR SLOPES
BETWEEN 3H:1V AND 2H:1V
(INCLUDING 3H:1V)
PLACE 1½ ANCHORS/SY



TYPICAL SLOPE CROSS SECTION



ANCHOR PATTERNS FOR SLOPES
BETWEEN 2H:1V AND 1H:1V
(INCLUDING 2H:1V)
PLACE 2 ANCHORS/SY



ANCHOR PATTERN FOR
1H:1V OR STEEPER
PLACE 2½ ANCHORS/SY

ANCHOR PATTERNS FOR SLOPES

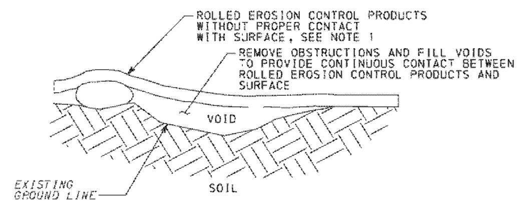


FIGURE 1
LACK OF CONTINUOUS CONTACT

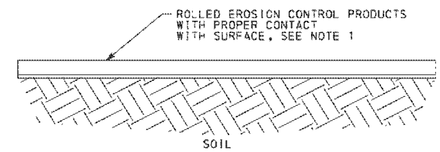


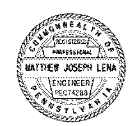
FIGURE 2
CONTINUOUS CONTACT

NOTES:

1. ESTABLISH AND MAINTAIN CONTINUOS CONTACT BETWEEN THE ROLLED EROSION CONTROL PRODUCTS AND THE SOIL.
2. PROVIDE ANCHORING DEVICES IN ACCORDANCE WITH PUBLICATION 408, SECTION 806.2(d).

ROLLED EROSION CONTROL PRODUCTS (RECP)
NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111



EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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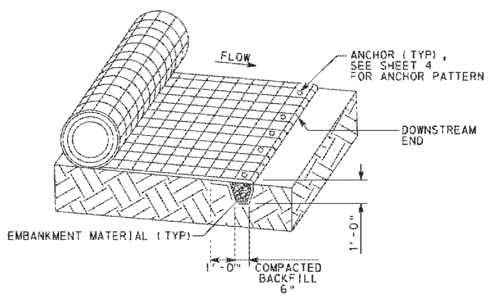
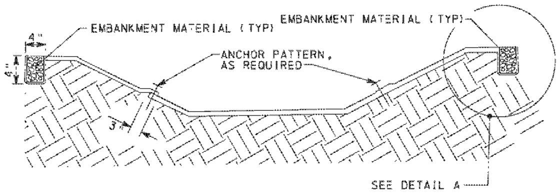
CITY OF YORK				

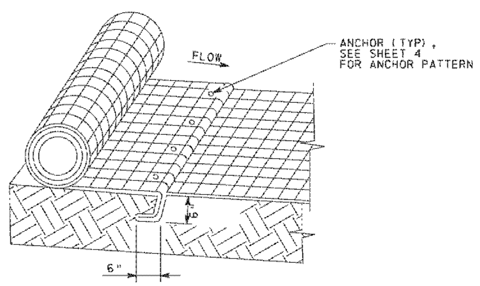
REVISION NUMBER	REVISIONS	DATE	BY



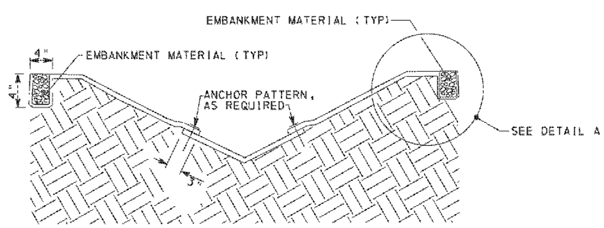
INITIAL ANCHOR TRENCH
SEE NOTE 1



TYPICAL TRAPEZOIDAL CHANNEL CROSS SECTION



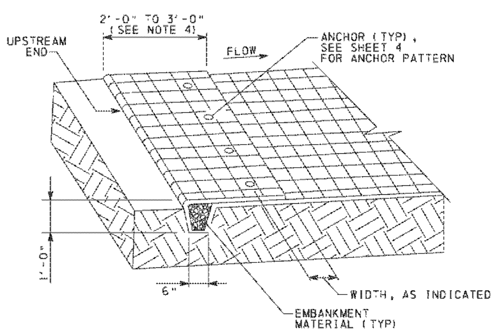
INTERMITTENT CHECK SLOT
SEE NOTE 2



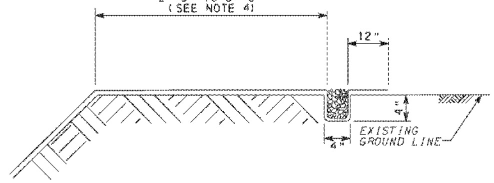
TYPICAL V-DITCH CROSS SECTION

NOTES:

1. EXCAVATE INITIAL ANCHOR TRENCH 1'-0" DEEP AND 6" WIDE ACROSS THE WIDTH OF THE CHANNEL TO PREVENT UNDERMINING OF THE ROLLED EROSION CONTROL PRODUCTS.
2. EXCAVATE INTERMITTENT CHECK SLOT 6" DEEP AND 6" WIDE ACROSS THE WIDTH OF THE CHANNEL AT 25'-0" TO 30'-0" ALONG THE LENGTH OF THE ROLLED EROSION CONTROL PRODUCTS TO PREVENT LOOSE SOIL FROM BEING TRANSPORTED DOWNSTREAM BENEATH THE ROLLED EROSION CONTROL PRODUCTS.
3. EXCAVATE TERMINAL ANCHOR TRENCH 1'-0" DEEP AND 6" WIDE ACROSS THE WIDTH OF THE CHANNEL TO ENSURE WATER FLOW TRANSITIONS SMOOTHLY ONTO THE ROLLED EROSION CONTROL PRODUCTS WITHOUT SEPARATION FROM THE SOIL.
4. EXTEND ROLLED EROSION CONTROL PRODUCTS 2'-0" TO 3'-0" ABOVE THE CREST OF CHANNEL SIDE WHENEVER POSSIBLE.
5. PLACE 2½ ANCHORS/SY.
6. PROVIDE ANCHORING DEVICES IN ACCORDANCE WITH SECTION 806.2(d) OF PUBLICATION 408.



TERMINAL ANCHOR TRENCH
SEE NOTE 3



DETAIL A

ROLLED EROSION CONTROL PRODUCTS (RECP)
NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074280

EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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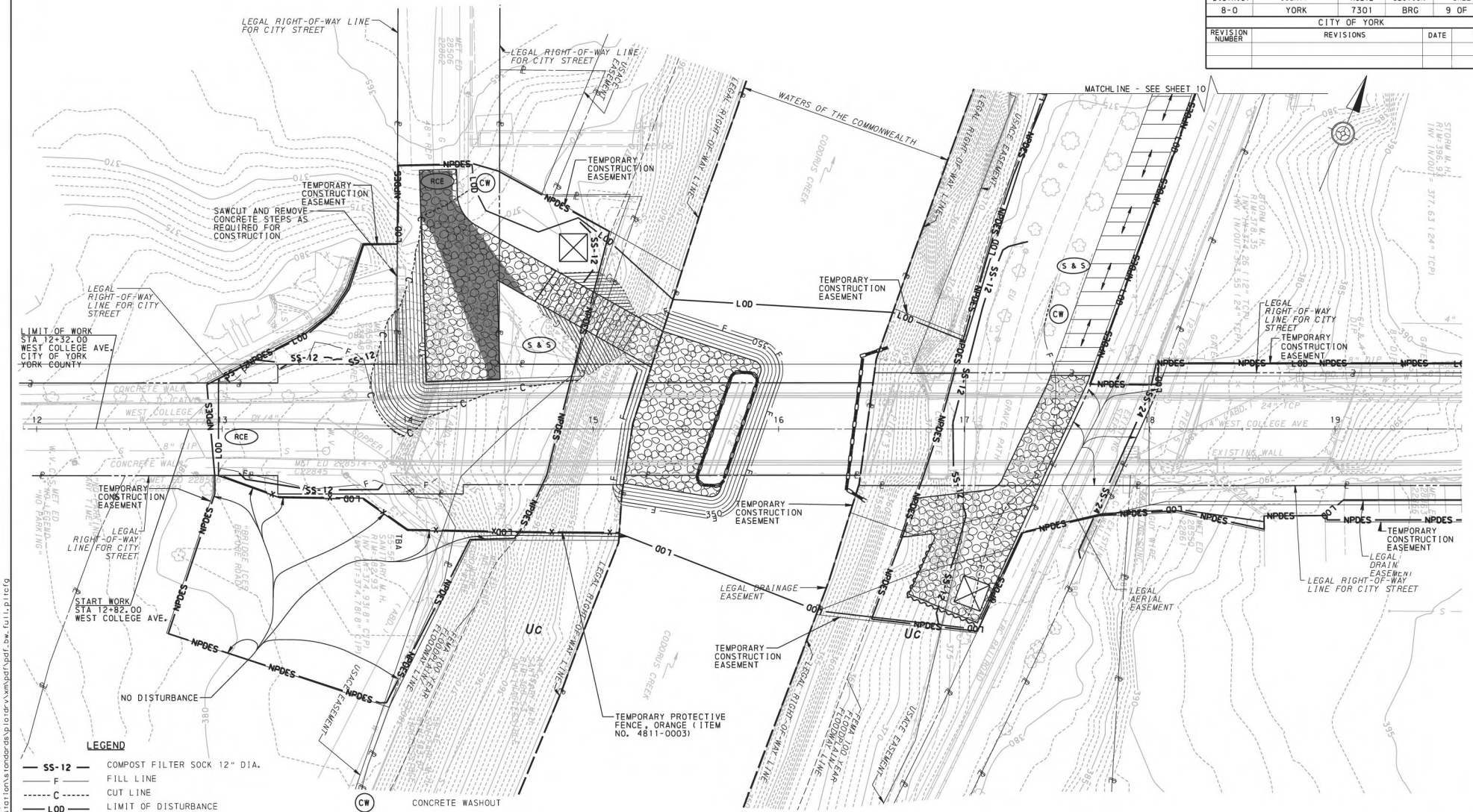
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	9 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



LEGEND

SS-12	COMPOST FILTER SOCK 12" DIA.
F	FILL LINE
C	CUT LINE
LOD	LIMIT OF DISTURBANCE
	SOIL BOUNDARY
	FEMA 100 YEAR FLOODPLAIN BOUNDARY
	TEMPORARY STREAM DIVERSION
	TREE REMOVAL
TRECP	TEMPORARY ROLLED EROSION CONTROL PRODUCT
	TEMPORARY CAUSEWAY
NPDES	NPDES PERMIT BOUNDARY
	APPROXIMATE LIMITS TEMPORARY SEWERLINE PROTECTION SYSTEM (ITEM NO. 9000-0003)
CW	CONCRETE WASHOUT
	PUMPED WATER FILTER BAG
S&S	STAGING AND STOCKPILE
RCE	ROCK CONSTRUCTION ENTRANCE
	INLET FILTER BAG FOR TYPE C INLET
	CONSTRUCTION ACCESS ROUTE
Uc	SOIL TYPE

SCALE
0 25 50 FEET

PHASE 1
EROSION AND SEDIMENT POLLUTION CONTROL PLAN

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MATTHEW JOSEPH LENA — ENGINEER PE074288

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	10 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

START WORK
STA 51+30.00
WEST PRINCESS ST.

STOP WORK
STA 52+00.00
WEST PRINCESS ST.

W PRINCESS ST.
SURVEY & CONST ℄

N67° 40' 43"E

LEGAL RIGHT-OF-WAY LINE FOR CITY STREET

TEMPORARY CONSTRUCTION EASEMENT

TEMPORARY PIPE CROSSING: SEE DETAIL

MATCHLINE - SEE PLAN SHEET 8

RESTORE TEMPORARY CONSTRUCTION ACCESS ROUTE WITH TYPE B SEEDING

SEE SHEET 9

W COLLEGE AVE.
SURVEY & CONST ℄

STOP WORK
STA 21+50.10
WEST COLLEGE AVE.

LIMIT OF WORK
STA 22+00.00
WEST COLLEGE AVE.
CITY OF YORK
YORK COUNTY

TEMPORARY CONSTRUCTION EASEMENT

LEGAL DRAINAGE EASEMENT

TRECP

LEGAL RIGHT-OF-WAY LINE FOR CITY STREET

LEGEND

SS-12	COMPOST FILTER SOCK 12" DIA.
F	FILL LINE
C	CUT LINE
LOD	LIMIT OF DISTURBANCE
	SOIL BOUNDARY
	FEMA 100 YEAR FLOODPLAIN BOUNDARY
	TEMPORARY STREAM DIVERSION
	TREE REMOVAL
TRECP	TEMPORARY ROLLED EROSION CONTROL PRODUCT
RCEW	ROCK CONSTRUCTION ENTRANCE WITH WASH RACK
	TEMPORARY CAUSEWAY
NPDES	NPDES PERMIT BOUNDARY
Uc	SOIL TYPE
CW	CONCRETE WASHOUT
	PUMPED WATER FILTER BAG
S&S	STAGING AND STOCKPILE
RCE	ROCK CONSTRUCTION ENTRANCE
	INLET FILTER BAG FOR TYPE C INLET
	CONSTRUCTION ACCESS ROUTE

SCALE
0 25 50 FEET

PHASE 1
EROSION AND SEDIMENT POLLUTION CONTROL PLAN

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

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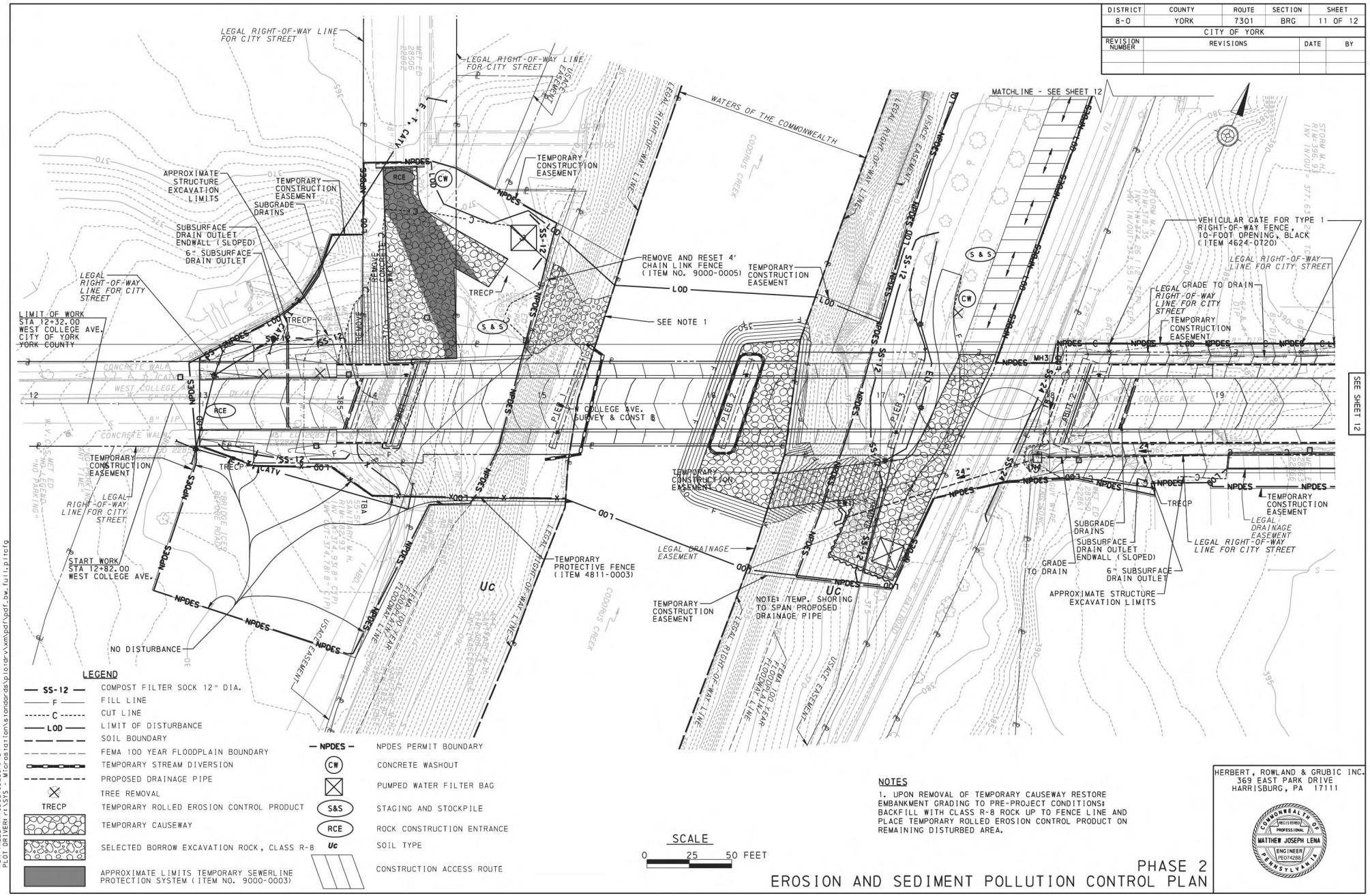

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	7301	BRG	11 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

SS-12	COMPOST FILTER SOCK 12" DIA.
F	FILL LINE
C	CUT LINE
LOD	LIMIT OF DISTURBANCE
	SOIL BOUNDARY
	FEMA 100 YEAR FLOODPLAIN BOUNDARY
	TEMPORARY STREAM DIVERSION
	PROPOSED DRAINAGE PIPE
	TREE REMOVAL
TRECP	TEMPORARY ROLLED EROSION CONTROL PRODUCT
	TEMPORARY CAUSEWAY
	SELECTED BORROW EXCAVATION ROCK, CLASS R-8
	APPROXIMATE LIMITS TEMPORARY SEWERLINE PROTECTION SYSTEM (ITEM NO. 9000-0003)
NPDES	NPDES PERMIT BOUNDARY
CW	CONCRETE WASHOUT
	PUMPED WATER FILTER BAG
S&S	STAGING AND STOCKPILE
RCE	ROCK CONSTRUCTION ENTRANCE
Uc	SOIL TYPE
	CONSTRUCTION ACCESS ROUTE

SCALE
0 25 50 FEET

NOTES

1. UPON REMOVAL OF TEMPORARY CAUSEWAY RESTORE EMBANKMENT GRADING TO PRE-PROJECT CONDITIONS; BACKFILL WITH CLASS R-8 ROCK UP TO FENCE LINE AND PLACE TEMPORARY ROLLED EROSION CONTROL PRODUCT ON REMAINING DISTURBED AREA.

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL MATTHEW JOSEPH LENA ENGINEER PE074288

PHASE 2
EROSION AND SEDIMENT POLLUTION CONTROL PLAN

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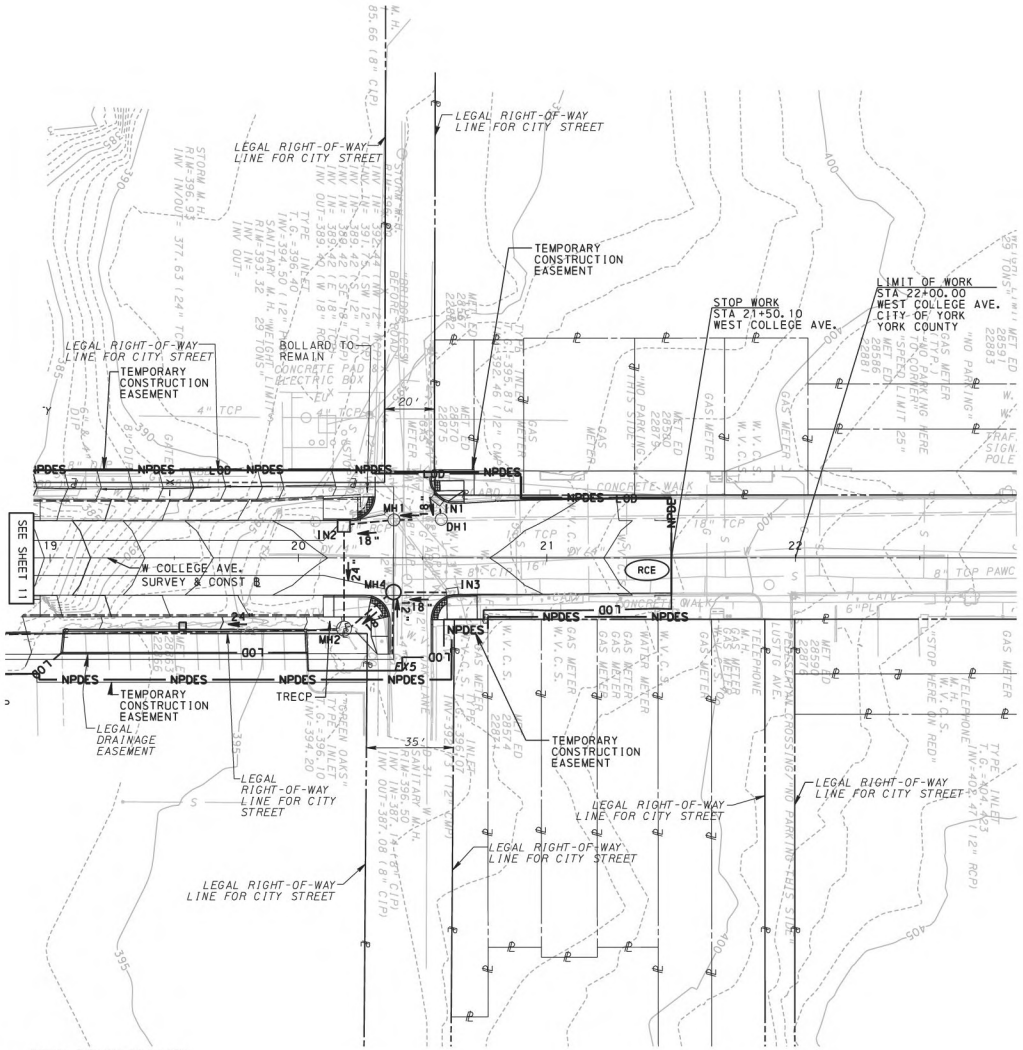
8-0	YORK	7301	BRG	12 OF 12
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



LEGEND

SS-12	COMPOST FILTER SOCK 12" DIA.
F	FILL LINE
C	CUT LINE
LOD	LIMIT OF DISTURBANCE
	SOIL BOUNDARY
	FEMA 100 YEAR FLOODPLAIN BOUNDARY
	TEMPORARY STREAM DIVERSION
	PROPOSED DRAINAGE PIPE
	TREE REMOVAL
TRECP	TEMPORARY ROLLED EROSION CONTROL PRODUCT
Uc	SOIL TYPE
	TEMPORARY CAUSEWAY
NPDES	NPDES PERMIT BOUNDARY
CW	CONCRETE WASHOUT
	PUMPED WATER FILTER BAG
S&S	STAGING AND STOCKPILE
RCE	ROCK CONSTRUCTION ENTRANCE
	CONSTRUCTION ACCESS ROUTE

SCALE
0 25 50 FEET

PHASE 2
EROSION AND SEDIMENT POLLUTION CONTROL PLAN

HERBERT, ROWLAND & GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

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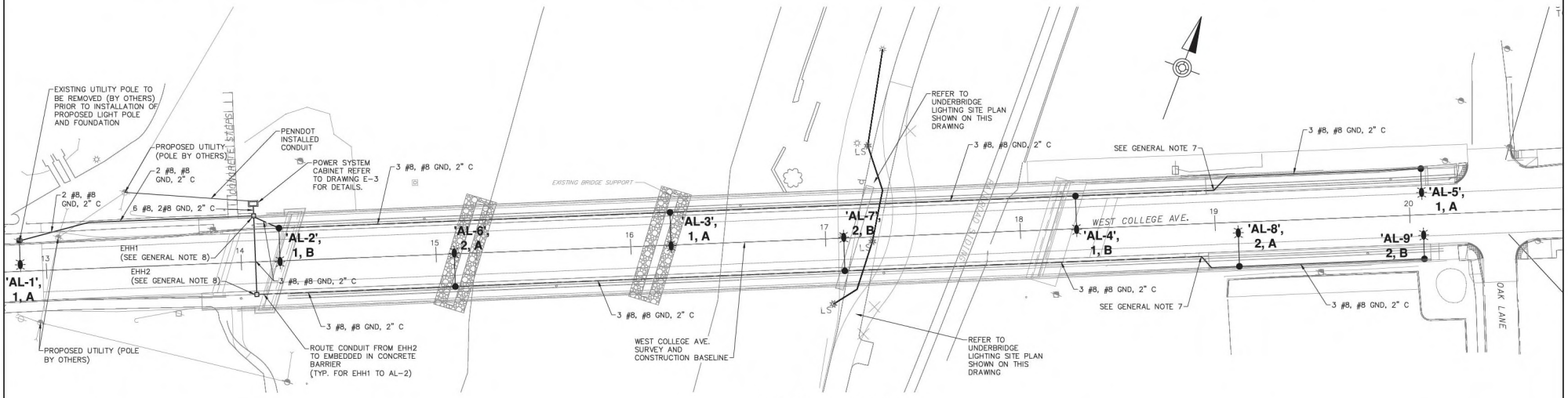
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	1 OF 4
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY

LEGEND

- LIGHTING POLE AND LUMINAIRE ARM
- LUMINAIRE
- EXISTING UTILITY POLE TO BE REMOVED (BY OTHERS)
- 2" PVC CONDUIT IN BARRIER, CONDUCTOR SIZE AND QUANTITY AS SHOWN
- 2" PVC CONDUIT UNDERGROUND, CONDUCTOR SIZE AND QUANTITY AS SHOWN

'AL-X', X, X — "AREA LIGHT"; LIGHT NUMBER; LIGHTING CIRCUIT (1 OR 2); CIRCUIT PHASE (A OR B)



ELECTRICAL SITE PLAN

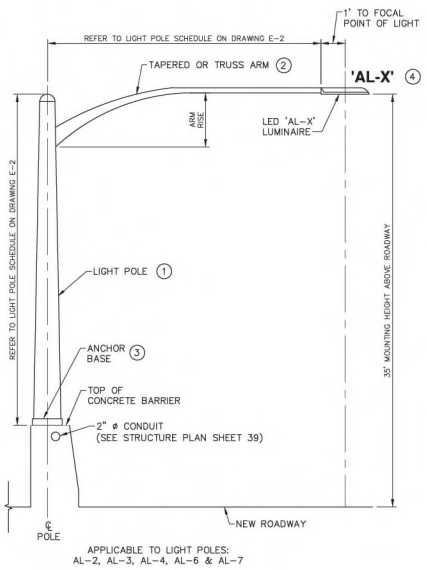
1" = 25'

LIGHT POLE DETAIL NOTES:

1. LIGHT POLES:
   TO BE FROM BULLETIN 15 MANUFACTURER / PLANT, AND WILL MEET STRUCTURAL REQUIREMENTS OF PENNDOT PUB 408 SECTION 1101 AND TO HAVE:
   1. POLES ARE TO BE TYPE A.
   2. INSTALLED 35' ABOVE FINISHED ELEVATION OF BRIDGE ROADWAY.
   3. POWDER COAT IN FINISH, DARK BRONZE IN COLOR.
2. MOUNTING ARM:
   1. REFER TO LIGHT POLE DETAIL FOR MOUNTING ARM LENGTHS.
   2. POWDER COAT IN FINISH, DARK BRONZE IN COLOR.
3. LIGHT POLE FOUNDATIONS:
   LIGHT POLES MOUNTED ON BRIDGE (AL-2, AL-3, AL-4, AL-6, & AL-7) SHALL BE MOUNTED ON CONCRETE BARRIER AS SHOWN ON STRUCTURE PLAN SHEET 39. ALL OTHER LIGHT POLES SHALL BE PROVIDED WITH A CONCRETE LIGHTING POLE FOUNDATION AS DETAILED ON PENNDOTS PUB 72 SHEET RC-80M
4. LUMINAIRES:
   AMERICAN ELECTRIC LIGHTING LED LUMINAIRE, 106 WATTS, 120VAC @ 12,341 LUMENS WITH A LIGHT LOSS OF .72, 4,000 KELVIN, TYPE V OPTICS. CATALOG #: ATBO P303 R5 4K HSS

   COOPER STREETWORKS LIGHTING LED LUMINAIRE, 134 WATTS, 120 VAC, @ 12,524 LUMENS, 4,000 KELVIN, TYPE 14W OPTICS CATALOG #: ARCH2-60-740-1-T4W-BZ-HSS

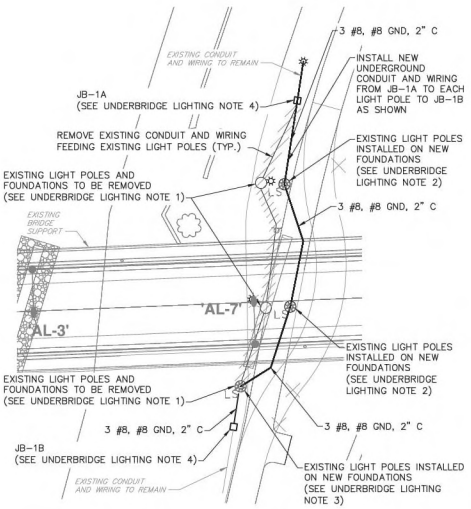
   OR APPROVED EQUAL.



APPLICABLE TO LIGHT POLES: AL-2, AL-3, AL-4, AL-6 & AL-7

LIGHT POLE DETAIL ON BRIDGE

NOT TO SCALE



UNDERBRIDGE LIGHTING SITE PLAN

1" = 25'

UNDERBRIDGE LIGHTING GENERAL NOTES:

1. REMOVE EXISTING LIGHT POLES AND FOUNDATIONS PRIOR TO BRIDGE DEMOLITION. RETAIN EXISTING LIGHT POLES, LUMINAIRES, FUSE HOLDERS, FUSES, AND ASSOCIATED INTERNAL COMPONENTS FOR INSTALLATION FOLLOWING CONSTRUCTION OF NEW BRIDGE. ANY COMPONENTS DAMAGED DURING THE REMOVAL SHALL BE REPLACED BY THE CONTRACTOR IN-KIND.
2. FOLLOWING CONSTRUCTION OF BRIDGE, INSTALL NEW FOUNDATIONS AS DETAILED ON PENNDOTS PUB 72 SHEET RC-80M AT THE LOCATIONS SHOWN. NEW FOUNDATIONS SHALL VISUALLY RESEMBLE EXISTING FOUNDATIONS WHILE MEETING THE PERFORMANCE CRITERIA OF RC-80M. FIELD VERIFY THAT LOCATION OF NEW FOUNDATIONS DO NOT INTERFERE WITH BRIDGE PIER, WALKING PATH, OR EXISTING UNDERGROUND UTILITIES. REINSTALL EXISTING LIGHT POLES ON NEW FOUNDATIONS AND CONNECT TO NEW WIRING. PROVIDE NEW FUSES AND FUSES HOLDERS SIZED TO MATCH EXISTING AND IN ACCORDANCE WITH THE NEC.
3. FOLLOWING CONSTRUCTION OF BRIDGE, INSTALL NEW FOUNDATIONS AS DETAILED ON PENNDOTS PUB 72 SHEET RC-80M AT THE EXISTING LOCATION. NEW FOUNDATIONS SHALL VISUALLY RESEMBLE EXISTING FOUNDATIONS WHILE MEETING THE PERFORMANCE CRITERIA OF RC-80M. FIELD VERIFY THAT LOCATION OF NEW FOUNDATIONS DO NOT INTERFERE WITH BRIDGE PIER, WALKING PATH, OR EXISTING UNDERGROUND UTILITIES. REINSTALL EXISTING LIGHT POLES ON NEW FOUNDATIONS AND CONNECT TO NEW WIRING. PROVIDE NEW FUSES AND FUSES HOLDERS SIZED TO MATCH EXISTING AND IN ACCORDANCE WITH THE NEC.
4. INSTALL JB-1A AND JB-1B INLINE WITH EXISTING CONDUITS AND SPLICE EXISTING LIGHTING CIRCUIT WITH NEW CONDUIT AND WIRING. JB-1A AND JB-1B SHALL BE TYPE JB-1 AS SHOWN ON PENNDOT PUB 72 SHEET RC-81M.
5. CONTRACTOR TO DOCUMENT LOCATION AND SIZE OF EXISTING CONDUIT, WIRING, AND LIGHT POLE FOUNDATIONS PRIOR TO REMOVAL.
6. CONTRACTOR TO VERIFY CONTENT OF EXISTING CONDUIT AND WIRING FEEDING LIGHT POLES PRIOR TO REMOVAL AND NOTIFY THE ENGINEER OF ANY ADDITIONAL UTILITIES CONTAINED WITHIN THE CONDUIT.

GENERAL NOTES:

1. STANDARD SPECIFICATIONS FOR THIS PROJECT CAN BE FOUND IN PENNDOT'S SPECIFICATIONS IN PUBLICATION 408-2020.
2. CONSTRUCTION DETAILS FOR THIS PROJECT CAN BE FOUND IN PENNDOT'S STANDARDS FOR ROADWAY CONSTRUCTION RC-80M THRU RC-84M AND STANDARDS FOR BRIDGE CONSTRUCTION BC-721M THRU BC-722M.
3. PROVIDE ALL CONSTRUCTION PER PENNDOT PUB 408 STANDARD SPECIFICATIONS, AND PENNDOT PUB 72, STANDARD LIGHTING DRAWINGS.
4. ANY JUNCTION BOXES USED BY CONTRACTOR TO BE JB-25 WITH STEEL LIDS.
5. PPL COORDINATION STARTED BY ENGINEER. WORK ORDER NUMBER IS 587 543 94.
6. CONCRETE LIGHTING POLE FOUNDATIONS IN EARTH ARE REQUIRED TO FOLLOW PENNDOT PUB 72 SHEET RC-80M.
7. TRANSITION 2" PVC CONDUIT FROM EMBEDDED IN BARRIER TO UNDERGROUND AND ROUTE TO LIGHT POLE SHOWN ON ELECTRICAL SITE PLAN.
8. EHH1 AND EHH2 SHALL BE TYPE JB-2 AS SHOWN ON PENNDOT PUB 72 SHEET RC-81M.

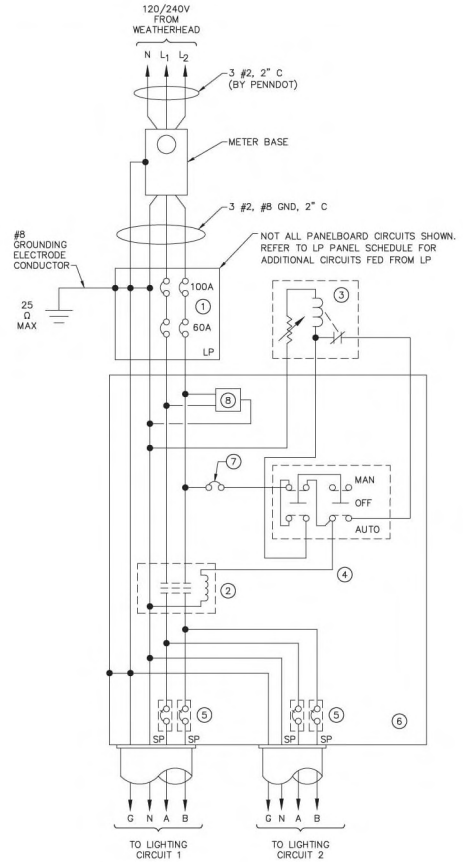
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA — REGISTERED PROFESSIONAL — MATTHEW DANIEL MOORE — ENGINEER — No. PE74013 — 12/16/25

E1: ELECTRICAL SITE PLAN AND DETAIL

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	2 OF 4
CITY OF YORK				

REVISION NUMBER	REVISIONS	DATE	BY



ITEMS:

N NEUTRAL
L_1 LINE 1
L_2 LINE 2

(1) 100A/2P MAIN CIRCUIT BREAKER AND 60A/2P FEEDER BREAKER IN LP PANELBOARD.
(2) CONTROL CONTACTOR
(3) PHOTOELECTRIC CELL (PLUG-IN TYPE)
(4) SELECTOR SWITCH
(5) 30A DISTRIBUTION BREAKERS (10,000 AIC)
(6) CONTROL CABINET
(7) 15A, SP BREAKER
(8) LIGHTING ARRESTER
SP SINGLE POLE
DP DOUBLE POLE

ITEMS (2), (3), (4) AND (7) ARE NOT REQUIRED IF EACH LUMINAIRE HAS A PHOTOELECTRIC CONTROL ELEMENT.

TYPICAL CONTROL CABINET SCHEMATIC WIRING DIAGRAM

NOT TO SCALE

LIGHT POLE SCHEDULE

ROADWAY	POLE ID	STATION	MOUNTING HEIGHT ABOVE ROADWAY (FT.)	ARM LENGTH (FT.)	FOUNDATION HEIGHT ABOVE GRADE (FT.)	MOUNTING TYPE:	BASE TYPE
WEST COLLEGE AVE	AL-1	12+80.00	35	10	0	FOUNDATION	A
	AL-2	14+20.00		15	N/A	CONCRETE BARRIER	A
	AL-3	16+20.79		15	N/A	CONCRETE BARRIER	A
	AL-4	18+79.00		15	N/A	CONCRETE BARRIER	A
	AL-5	20+10.00		10	4	FOUNDATION	A
	AL-6	15+89.21		15	N/A	CONCRETE BARRIER	A
	AL-7	17+89.21		15	N/A	CONCRETE BARRIER	A
	AL-8	19+15.00		15	4	FOUNDATION	A
	AL-9	20+10.00		10	4	FOUNDATION	A

LIGHT POLE SCHEDULE

NOT TO SCALE

PANEL LP BUS AMP 100A MIN. A.I.C. 10K MAIN BREAKER 100A
MOUNTING SURFACE PHASE 1 WIRE 3 VOLTAGE 240/120
LOCATION POWER SYSTEM CABINET NEMA TYPE 12

CKT	DESCRIPTION	BREAKER AMP	BREAKER POLES	LOAD (KW) A	LOAD (KW) B	WIRE NO	WIRE SIZE	GND SIZE	COND SIZE	COND SIZE	GND SIZE	WIRE SIZE	WIRE NO	LOAD (KW) A	LOAD (KW) B	BREAKER POLES	BREAKER AMP	DESCRIPTION	CKT
1	CONTROL CABINET FEED	60	2	-		3	4	8	1	3/4	12	12	2	-		1	20	POWER SYSTEM CABINET LIGHT	2
3					-					3/4	12	12	2		-	1	20	POWER SYSTEM CABINET RECEPT	4
5	SPARE	20	1	-										-		1	20	SPARE	6
7	SPARE	20	1		-										-	1	20	SPARE	8
9	SPARE	20	1	-										-		1	20	SPARE	10
11	SPARE	20	1		-										-	1	20	SPARE	12
13	SPARE	20	1	-											-	1	20	SPARE	14
15	SPARE	60	2		-					3/4	10	10	3		-	2	30	SPD (80kA)	16
17					-									-					18

	A	B
SUB-TOTAL LOAD KW	0	0

	A	B
SUB-TOTAL LOAD KW	0	0
TOTAL LOAD KW	0	0

LP PANEL SCHEDULE

NOT TO SCALE

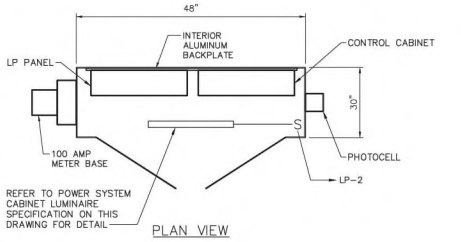
E-2: ELECTRICAL DETAIL, SCHEDULE AND DIAGRAM

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED
PROFESSIONAL
MATTHEW DANIEL MOORE
ENGINEER
No. PE74125
12/16/25

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
8-0	YORK	SR 7301	BRG	3 OF 4
CITY OF YORK				

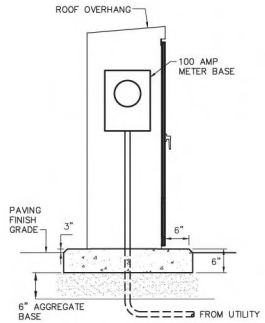
REVISION NUMBER	REVISIONS	DATE	BY



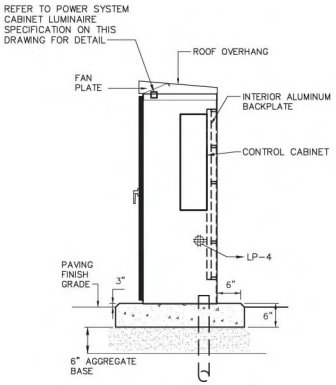
PLAN VIEW

ELECTRICAL ENCLOSURE NOTES:

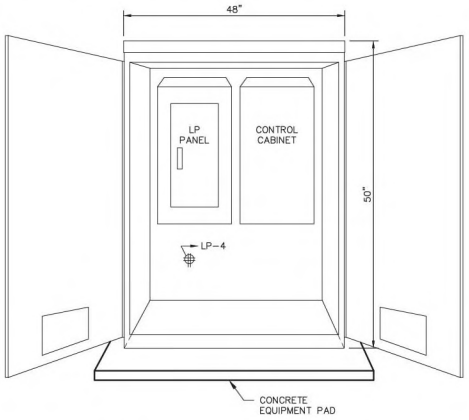
A. ENCLOSURE SHALL BE RATED TYPE NEMA 3R.
B. ENCLOSURE SHALL BE FABRICATED FROM ALUMINUM ALLOY AND TO BE GREEN IN COLOR.
C. ENCLOSURE SHALL BE BE EQUIPPED WITH ADJUSTABLE 'C' MOUNTING CHANNELS FOR ATTACHMENT OF ALUMINUM PANELS.
D. ENCLOSURE SHALL HAVE INCLUDE A FORCED AIR FAN SYSTEM THAT IS THERMOSTATICALLY CONTROLLED, AND AIR EXHAUSTED THROUGH A SLOTTED VENT SYSTEM IN THE ROOF OVERHANG.
E. ENCLOSURE SPECIFIED SHALL BE APX ENCLOSURES OR EQUAL.
F. PHOTOCELL TO BE ON NORTHERNMOST FACING SIDE.



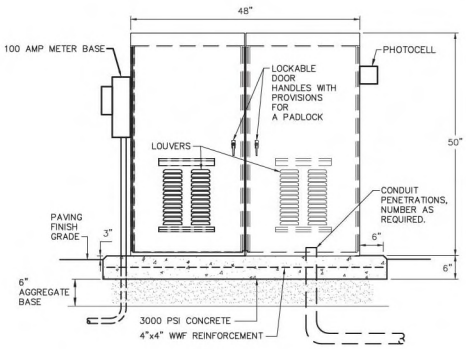
METER BASE SIDE VIEW



SIDE VIEW



POWER SYSTEM CABINET ELEVATION



FRONT VIEW

POWER SYSTEM CABINET

NOT TO SCALE

FIXTURE DETAIL NOTES:

1. 24" LED STRIP LIGHT FIXTURE THAT CAN BE INSTALLED SURFACE MOUNTED, PENDANT OR STEM MOUNTED WITH THE APPROPRIATE MOUNTING OPTINS.
2. COMPACT-DESIGN CHANNEL AND COVER ARE FORMED FROM CODE-GUAGE COLD-ROLLED STEEL. MATTE BLACK FINSH.
3. STANDARD DIFFUSE SNAP ON/SNAP OFF LENS THAT ELIMANTES PIXELS, IMPROVES UNIFORMITY AND MINIMIZES GLARES.
4. MULTI-VOLT DRIVER.
5. 0-10V DIMMING.
6. 3,500 LUMEN OUTPUT.
7. 3,000K COLOR TEMPERATURE.
8. 3500LM FST MVOLT 30K 80CRI WH
9. MINIMUM 5 YEAR WARRANTY.

POWER SYSTEM CABINET LUMINAIRE SPECIFICATION

NOT TO SCALE

HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

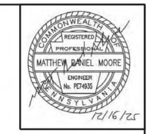
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW DANIEL MOORE
ENGINEER
No. PE74131
12/16/25

E-3: ELECTRICAL POWER SYSTEM CABINET

TABULATION OF QUANTITIES
HIGHWAY LIGHTING

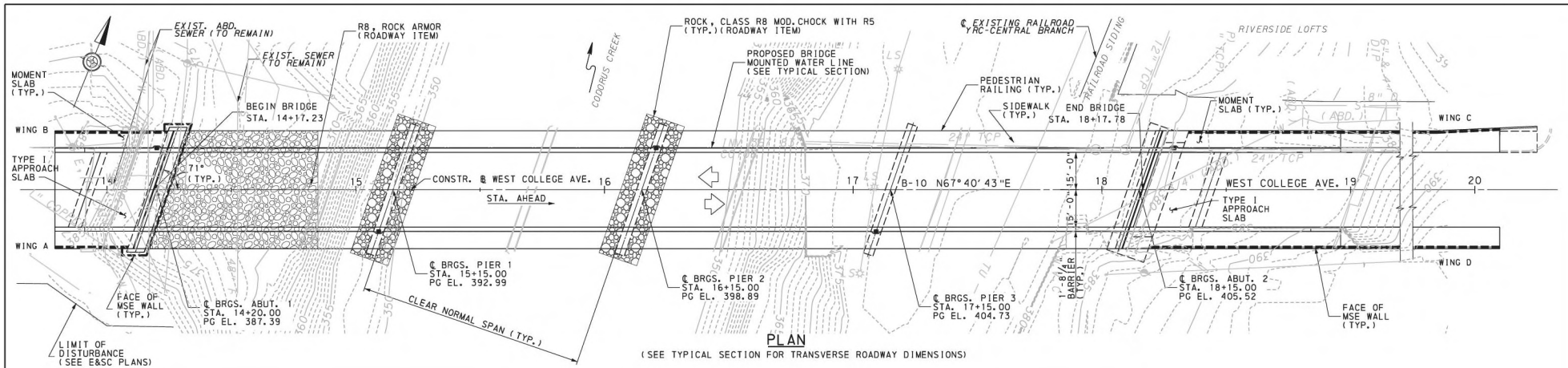
(+) SEE SUMMARY SHEET FOR COMPLETE ITEM NUMBERS

REVISION NO	REVISIONS	DATE	BY	DISTRICT	COUNTY	ROUTE	SECTION	SHEET
				08	YORK	7301	BRG	4 OF 4



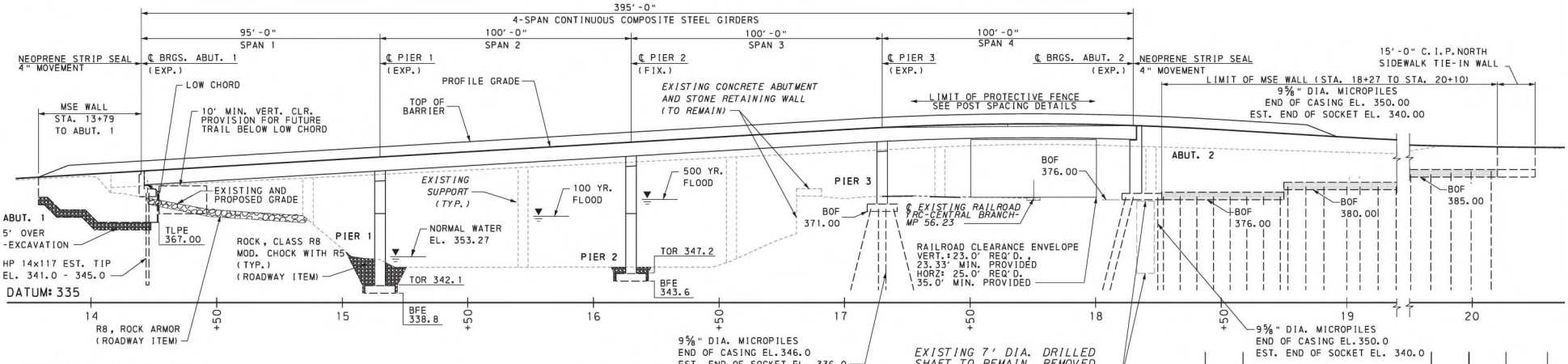
JUNCTION BOXES J.B.-1	JUNCTION BOXES J.B.-2	POLE FOUNDATION, TYPE FC	POLE FOUNDATION, TYPE FC, HERITAGE RAIL TRAIL	DESIGN NO. 3	DESIGN NO. 4	AWG 2 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	AWG 8 UNDERGROUND CABLE, COPPER, 1 CONDUCTOR	2" DIRECT BURIAL CONDUIT	TRENCH	COMPLETE POWER SUPPLY SYSTEM MODIFIED	TESTING OF ENTIRE LIGHTING SYSTEM	REMOVE AND RESET LIGHTING POLE UNDER BRIDGE	LED LUMINAIRE	REMARKS	SIDE	STATIONS
0910 0001 EACH	0910 0002 EACH	0910 0154 EACH	4910 0154 EACH	4910 (+) EACH	4910 (+) EACH	0910 4113 LF	0910 4116 LF	0910 5055 LF	0910 6000 LF	4910 7020 EACH	0910 7210 LS	9000 8001 EACH	9000 8002 EACH	ITEM NUMBER / UNIT		
														GROUPING TITLE HERE		
2	2		3			20	8000	750	750	1	X	3		ENTIRE PROJECT	LT / RT	12+48.00 to 22+00.00
		1		1									1	AL-1	LT	12+90.00
					1								1	AL-2	LT	14+20.00
					1								1	AL-6	RT	15+09.21
					1								1	AL-3	LT	16+20.79
					1								1	AL-7	RT	17+09.21
					1								1	AL-4	LT	18+29.00
		1			1								1	AL-8	RT	19+15.00
		1		1									1	AL-5	LT	20+10.00
		1		1									1	AL-9	RT	20+10.00
2	2	4	3	3	6	20	8000	750	750	1	---	3	9	TOTALS		

PROJECT ID: 5983 MPMS: 110280 ECMS: 110280 11/18/2025 11:55:39 AM



PLAN

(SEE TYPICAL SECTION FOR TRANSVERSE ROADWAY DIMENSIONS)



SECTION ALONG CONSTR. ℄ WEST COLLEGE AVE.

(LIGHT POLES, PEDESTRIAN BARRIER, AND MSE WALL NOT SHOWN IN SECTION)

NOTE:

1. FOR BRIDGE TYPICAL SECTION AND INDEX OF SHEETS, SEE SHEET 2.
2. FOR SUPPLEMENTAL DRAWINGS, SEE SHEET 3.

VERTICAL CURVE DATA

PVI STA. 17+75.27
PVI EL. 408.35
L.V.C. 145.00'
M.O. -2.16'

+5.90% -6.01%

HORIZONTAL CURVE DATA

ON TANGENT

HYDRAULIC DATA

EXISTING WATERWAY OPENING: 8,598 S.F.
EXISTING LOW CHORD: EL. 378.0
EXISTING STREAMBED: EL. 349.1 (VARIES)
EXISTING SPAN (CLEAR NORMAL): 372 FT.

PROPOSED WATERWAY OPENING: 10,212 S.F.
PROPOSED LOW CHORD: EL. 381.3
PROPOSED STREAMBED: EL. 349.1
PROPOSED SPAN (CLEAR NORMAL): 357.5 FT.

NOTE: EXISTING AND PROPOSED HIGH CHORD IS 100' EAST OF WATERWAY OPENING.

DRAINAGE AREA = 177.0 SQ. MI. (FEMA)
229.0 SQ. MI. (STREAMSTATS)

DESIGN FLOOD:
FREQUENCY = 100 YEARS
MAGNITUDE = 24,210 CFS
VELOCITY = 6.77 FPS
ELEVATION = 369.35

500 YR. FLOOD:
MAGNITUDE = 43,650 CFS
VELOCITY = 8.57 FPS
ELEVATION = 376.11

FLOOD OF RECORD: N/A

SHEET GRAPHIC SCALE

10 0 10 20 FEET

LEGEND

- TYPICAL UTILITY
- 400 EXISTING AND PROPOSED CONTOUR
- TRAFFIC DIRECTION
- LIGHTING POLE

NOTE:

EXISTING BRIDGE TO BE REMOVED IN ITS ENTIRETY. EXISTING BRIDGE FOUNDATION SUPPORTS TO BE REMOVED A MINIMUM OF 2' BELOW EXISTING GRADE OR AS NOTED. (ROADWAY ITEM)

CERTIFIED CORRECT PLANS
Professional Engineers
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
ATTEST Secretary

COMMONWEALTH OF PENNSYLVANIA
PAUL PETER NASADOS, JR.
ENGINEER PE056853
PENNSYLVANIA
05/26/2025

PREPARED BY
HERBERT, ROWLAND AND GRUBIC INC.
369 EAST PARK DRIVE
HARRISBURG, PA. 17111

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
GENERAL PLAN AND ELEVATION

RECOMMENDED 10/20/2025
DISTRICT BRIDE ENGINEER

SHEET 1 OF 63
+ SUPPLEMENTAL DRAWINGS
L-435

DES: PPN | DWG: KSB | CKD: PPN

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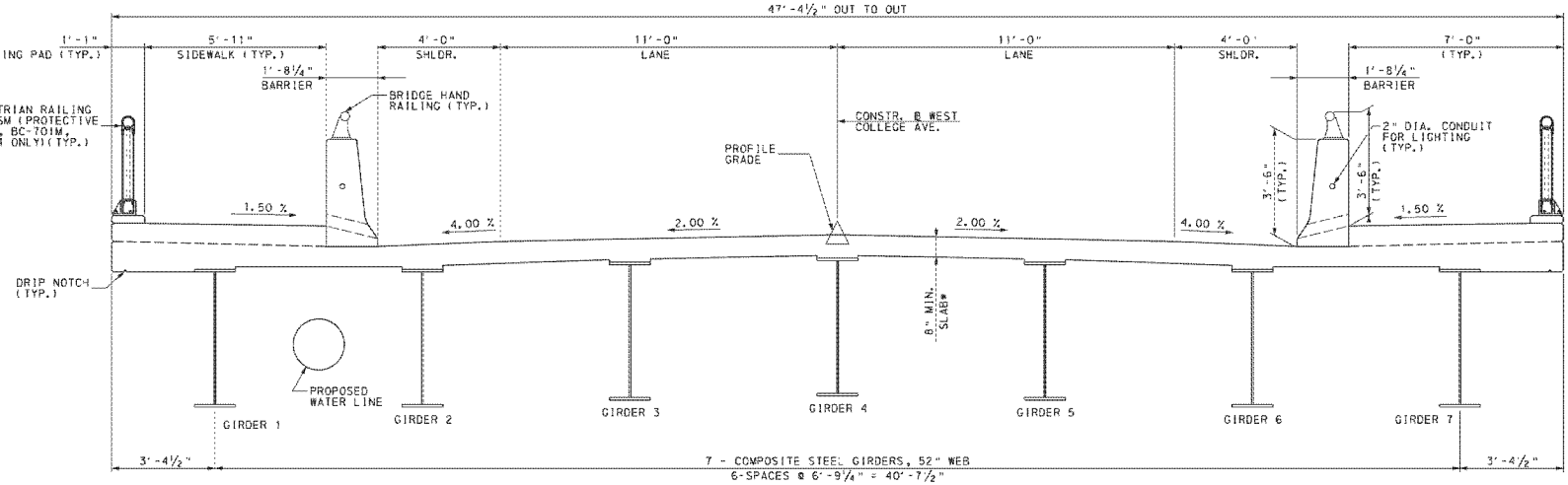

* INCLUDES ½" INTEGRAL WEARING SURFACE

TYPICAL SECTION

1 0 1 2 FEET

NOTE: LIGHTING POLES AND BARRIER BLISTERS NOT SHOWN.

INDEX OF SHEETS

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

TYPICAL SECTION & INDEX OF SHEETS

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. PE-250853

RECOMMENDED 10/20/2025

SHEET 2 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN

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ALTERNATE STRUCTURE ITEMS

ITEM NO.	ITEM	UNIT	TOTAL
8110-0001	BRIDGE STRUCTURE, AS DESIGNED, L-435 (2)	L.S.	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE (2)	L.S.	LUMP SUM
8200-0001	OTHER BRIDGE STRUCTURE (2)	L.S.	LUMP SUM

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE AS DESIGNED, L-435

ITEM NO.	DESCRIPTION	UNIT	ABUT. 1	ABUT. 2	PIER 1	PIER 2	PIER 3	SUPER.	NEAR APPR. SLAB	FAR APPR. SLAB	TOTAL
8110-0001	BRIDGE STRUCTURE, AS DESIGNED (2)	LS	—	—	—	—	—	—	—	—	—
(1)	CLASS 3 EXCAVATION	CY	1,210	3,835	1,213	260	345	—	—	—	6,863
(1)	STRUCTURE BACKFILL	CY	—	50	—	—	100	—	—	—	150
(1)	CLASS AAAP CEMENT CONCRETE	CY	—	—	—	—	—	565	—	—	565
(1)	CLASS AA CEMENT CONCRETE (8)	CY	79	266	—	—	—	266	43	43	697
(1)	CLASS A CEMENT CONCRETE	CY	40	1,319	330	310	145	—	—	—	2,144
(1)	FABRICATED STRUCTURAL STEEL (4) (7)	LB	—	—	—	—	—	807,760	—	—	807,760
(1)	NEOPRENE STRIP SEAL DAM, (4" MOVEMENT)	LF	56	56	—	—	—	—	—	—	112
(1)	ALUMINUM PEDESTRIAN RAILING	LF	—	—	—	—	—	1,144	—	—	1,144
(1)	ALUMINUM BRIDGE HAND RAILING	LF	—	—	—	—	—	980	—	—	980
(1)	PROTECTIVE FENCE	LF	—	—	—	—	—	130	—	—	130
(1)	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER, BRIDGE SUPERSTRUCTURE) (6)	SY	130	250	—	—	—	2,600	84	84	3,148
(1)	MECHANICAL TEXTURING WITH LONGITUDINAL SAWED GROOVES	SY	—	—	—	—	—	1,235	75	75	1,385
(1)	JUNCTION BOXES J.B.-25	EA	1	1	—	—	—	3	—	—	5
(1)	2" CONDUIT IN STRUCTURE	LF	—	—	—	—	—	800	60	140	1,000
(1)	LIGHTING POLE, ANCHORAGE	EA	1	1	—	—	—	3	—	—	5
(1)	BRONZE PLAQUE (2)	EA	1	1	—	—	—	—	—	—	2
(1)	SPRAY APPLIED WATERPROOFING MEMBRANE SYSTEM ON OTHER SURFACES (9)	SY	—	—	45	45	—	—	—	—	90
AND											
1002-0052	REINFORCEMENT BARS, EPOXY COATED (5)	LB	14,091	103,913	28,345	28,733	35,146	196,609	8,917	8,917	424,671
AND											
1005-1850	STEEL HP14X117 PRODUCTION PILE	LF	410	—	—	—	—	—	—	—	410
AND											
1005-2050	STEEL HP14X117 PILE TIP REINFORCEMENT (HEAVY DUTY)	EA	11	—	—	—	—	—	—	—	11
AND											
1005-1750	STEEL HP14X117 TEST PILE	EA	3	—	—	—	—	—	—	—	3
AND											
1005-1420	PREDRILLING FOR UNFORSEEN OBSTRUCTIONS, EARTH DRILLING	DOLLAR	4,100	—	—	—	—	—	—	—	4,100
AND											
1005-1430	PREDRILLING FOR UNFORSEEN OBSTRUCTIONS, OBSTRUCTION DRILLING	DOLLAR	2,000	—	—	—	—	—	—	—	2,000
AND											
9005-2700	MOBILIZATION FOR PREDRILLING OF UNFORSEEN OBSTRUCTIONS (2)	DOLLAR	5,000	—	—	—	—	—	—	—	5,000
AND											
9005-0018	EXPLORATORY AIR TRACK DRILLING (2)	LF	374	160	160	—	—	—	—	—	694
AND											
1007-0350	MICROPILES 9⅝" DIAMETER, PLAIN STEEL	LF	—	8,999	—	—	736	—	—	—	9,735
AND											
1007-0200	MICROPILES VERIFICATION LOAD TEST	EA	—	4	—	—	1	—	—	—	5
AND											
1007-0210	MICROPILES PROOF LOAD TEST	EA	—	13	—	—	2	—	—	—	15
AND											
9205-0100	FOUNDATION STABILIZTION WITH COURSE AGGREGATE (2)	TON	650	—	—	—	—	—	—	—	650
AND											650
9204-0100	CLASS 3 EXCAVATION, OVEREXCAVATION (2)	CY	402	—	—	—	—	—	—	—	402
AND											
4220-0020	FLOWABLE BACKFILL, TYPE C IN ABANDONED PIPE (2)	CY	85	—	—	—	—	—	—	—	85
AND											
1091-0331	EPOXY INJECTION CRACK SEAL	LF	—	—	—	—	—	200	—	—	200
AND											
8621-0001	MECHANICALLY STABILIZED RETAINING WALL SYSTEMS (AS DESIGNED) (2)	LS	—	—	—	—	—	—	—	—	LS

(1) ITEMS IN BRIDGE STRUCTURE AS DESIGNED, L-435, LUMP SUM ITEM 8110-0001 GIVEN FOR INFORMATION ONLY.

(2) SEE SPECIAL PROVISIONS

(3) INCLUDES APPROXIMATELY 50 CY FOR CONCRETE IN STAY IN PLACE FORMS.

(4) INCLUDES APPROXIMATELY 3,500 LBS FOR WATER LINE ATTACHMENT TO BRIDGE. INCLUDES SUPPORT BEAM, CONNECTION PLATES, AND HANGER SYSTEM AS LOCATED ON THE FRAMING PLAN.

(5) FOR AS DESIGNED STRUCTURE, INCLUDE IN BRIDGE BID ITEMS. FOR ALTERNATE DESIGNS, INCLUDE IN BRIDGE STRUCTURE LUMP SUM BID ITEM.

(6) SEE GENERAL NOTES, FOR APPLICATION OF PROTECTIVE COATING.

(7) FABRICATED STRUCTURAL STEEL INCLUDES FABRICATION, DELIVERY AND ERECTION OF GIRDERS, DIAPHRAGMS AND ANY MISCELLANEOUS STEEL AND ALL BEARING PADS.

(8) COMPRESSION SEALS, WATERSTOPS, POLYETHYLENE SHEETING, CLOSED CELL NEOPRENE SPONGE, EPOXY BONDING COMPOUND, SAWING AND SEALING JOINTS, BACKER ROD, FOAM JOINT FILLER, AND BITUMINOUS PAPER ITEMS ARE INCIDENTAL TO THE APPROACH SLAB (CLASS AA) CONCRETE.

(9) SEE SPECIAL PROVISION - SPRAY APPLIED WATERPROOFING SYSTEM ON CONCRETE SURFACES. ITEM INCLUDES PREFORMED CELLULAR POLYSTYRENE.

DES: PPN | DWG: DSF | CKD: PPN

APPROXIMATE QUANTITIES - STRUCTURE AS DESIGNED (102)

ITEM NO.	ITEM	UNIT	NEAR	FAR	TOTAL
8621-0001	MECHANICALLY STABILIZED RETAINING WALLS (AS DESIGNED)	L.S.	L.S.	L.S.	L.S.
(101)	M.S.E. WALL UNIT/PANELS (103)	SF	1,670	5,500	7,170
(101)	SPECIFIED BACKFILL (102)	CY	1,085	2,520	3,605
(101)	NO. 57 COURSE AGG. (102) (104)	CY	5	50	55
(101)	CAST-IN-PLACE COPING	LF	85	—	85
(101)	6" DIA. PREFORATED PIPE	LF	50	360	410
(101)	HDPE IMPERVIOUS MEMBRANE	SY	197	964	1161

(101) ITEMS IN STRUCTURE AS DESIGNED, LUMP SUM ITEM 8621-0001 GIVEN FOR INFORMATION ONLY.

(102) SEE SPECIAL PROVSIONS.

(103) INCLUDES WALL PANELS, LEVELING PADS, SOIL STABILIZING ELEMENTS AND HARDWARE, GEOTEXTILE AT PANEL JOINTS, AND ALL OTHER NECESSARY ITEMS TO CONSTRUCT THE MSE WALLS.

(104) INCLUDES CLASS 2, TYPE A GEOTEXTILE MATERIAL.

SUPPLEMENTAL DRAWINGS

DESCRIPTION	DWG. NO.	RECV'D DATE
PROTECTIVE FENCE	BC-701M	OCT. 7, 2024
ALUMINUM PEDESTRIAN RAILING	BC-716M	NOV. 23, 2022
ALUMINUM OR STEEL BRIDGE HAND RAILING	BC-720M	FEB. 19, 2021
ELECTRICAL DETAILS	BC-721M	FEB. 19, 2021
LIGHTING POLE ANCHORAGE	BC-722M	FEB. 19, 2021
PERMANENT METAL DECK FORMS	BC-732M	NOV. 23, 2022
ANCHOR SYSTEMS	BC-734M	FEB. 19, 2021
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	SEPT. 30, 2016
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	NOV. 23, 2022
BRIDGE DRAINAGE	BC-751M	JAN. 31, 2019
CONCRETE DECK SLAB DETAILS	BC-752M	NOV. 23, 2022
STEEL GIRDER DETAILS	BC-753M	JAN. 31, 2019
STEEL DIAPHRAGMS FOR STEEL BEAM/GIRDER STRUCTURES	BC-754M	NOV. 23, 2022
BEARINGS	BC-755M	JAN. 31, 2019
STEEL PILE TIP REINFORCEMENTS & SPLICES	BC-757M	SEPT. 30, 2016
PREFORMED NEOPRENE COMPRESSION SEAL JOINT FOR APPROACH SLABS	BC-766M	NOV. 23, 2022
PREFORMED STRIP SEAL DAM FOR PRESTRESSED & STEEL I-BEAM BRIDGES	BC-767M	NOV. 23, 2022
TYPICAL WATERPROOFING AND EXPANSION DETAILS ***	BC-788M	NOV. 23, 2022
MECHANICALLY STABILIZED EARTH RETAINING WALLS	BC-799M	NOV. 23, 2022
CLASSIFICATION OF EARTHWORK	RC-10M	JUN. 1, 2010
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	JUN. 1, 2010
BACKFILL AT STRUCTURES	RC-12M	NOV. 1, 2022

*** SEE SPECIAL PROVISION - SPRAY APPLIED WATERPROOFING SYSTEM ON CONCRETE SURFACES

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

SUMMARY OF QUANTITIES

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

SHEET 3 OF 63

L-435

DESIGN SPECIFICATIONS:

AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019.

LIVE LOAD DISTRIBUTION IS BASED UPON DM-4 DISTRIBUTION FACTORS METHOD.

DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS:

PHL-93, P-82 AND P2016-13

FATIGUE DESIGN IS BASED ON THE FOLLOWING:

ADTT 519 (2045) (ONE-DIRECTION)

DEAD LOADS:

INCLUDES A SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.

INCLUDES 0.250 KIP/FT. FOR WATER UTILITY ATTACHED TO THE UNDERSIDE OF THE STRUCTURE. DISTRIBUTED TO THE OUTSIDE FASCIA AND ADJACENT INTERIOR GIRDER.

GENERAL:

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408, AASHTO/AWS/D1.5 BRIDGE WELDING CODE, AND THE CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5.

PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.

USE CLASS AAAP CEMENT CONCRETE IN DECK SLAB.

USE CLASS AA CEMENT CONCRETE IN SIDEWALKS, BARRIERS, APPROACH SLABS, ABUTMENT BACKWALLS, PEDESTALS, MOMENT SLABS, AND SLEEPER SLABS.

USE CLASS A CEMENT CONCRETE IN PIERS, ABUTMENTS BELOW BRIDGE SEAT, RETAINING WALLS, AND FOOTINGS.

A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST, IF APPROVED BY THE DEPARTMENT.

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615, A996, OR A706. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. IT IS ACCEPTABLE TO SUBSTITUTE GRADE 60 REINFORCING WITH GRADE 40 REINFORCING STEEL BARS WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE DISTRICT BRIDGE ENGINEER. DO NOT USE RAIL STEEL A996 REINFORCEMENT.

USE EPOXY COATED REINFORCEMENT BARS, UNLESS OTHERWISE INDICATED.

GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.

PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 50 (ASTM A709 GRADE 50) DESIGNATION, EXCEPT WHEN NOTED OTHERWISE.

ABUTMENT BACKWALLS MAY BE PLACED UP TO A CONSTRUCTION JOINT BELOW THE LEVEL OF THE BOTTOM OF DECK SLAB PRIOR TO CONSTRUCTION OF THE DECK.

PLACE BACKWALL CONCRETE AFTER GIRDERS ARE SET IN POSITION.

CHAMFER EXPOSED CONCRETE EDGES 3/4" BY 3/4", EXCEPT AS NOTED.

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

USE EITHER PERMANENT METAL FORMS OR REMOVABLE FORMS TO CONSTRUCT THE DECK SLAB.

DECK SLAB THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE.

SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68°F.

PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH BC-736M, UNLESS OTHERWISE INDICATED.

RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.

NOTIFY THE REGIONAL HEADQUARTERS OF THE PA FISH & BOAT COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE PA FISH & BOAT COMMISSION DURING CONSTRUCTION:

SOUTH CENTRAL REGIOINAL OFFICE
1704 PINE ROAD
NEWVILLE, PA 17240
(717) 486-7087

SITE CLASS IS NOT CLASS E.

EXISITNG BRIDGE IS POSTED FOR A WEIGHT RESTRICTION OF 25 TONS. CONSTRUCTION LOADING LIMITS HAVE BEEN REDUCED IN ACCORDANCE WITH PUB 408, SECTION 105.17. NO MATERIAL MAY BE STOCKPILED ON THE BRIDGE. VEHICLES AND EQUIPMENT SHALL NOT EXCEED THE POSTED LIMIT.

STEEL GIRDERS:

IF GIRDERS CANNOT BE SHIPPED IN THE LENGTHS SHOWN ON THE PLANS, FIELD SPLICES WILL BE PERMITTED AT THE REQUEST OF THE CONTRACTOR, BUT NO COMPENSATION WILL BE ALLOWED FOR THE SPLICES.

IF GIRDERS CAN BE FABRICATED IN LENGTHS LONGER THAN THE SECTIONS SHOWN ON THE PLANS BY ELIMINATING FIELD SPLICES, FIELD SPLICES MAY BE OMITTED AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR SECURING A HAULING PERMIT. APPROVAL FOR ELIMINATION OF A FIELD SPLICE AT THE SHOP DRAWING STAGE DOES NOT OBLIGATE THE DEPARTMENT TO ISSUE A HAULING PERMIT.

DO NOT USE FORM SUPPORT SYSTEMS THAT WILL CAUSE UNACCEPTABLE OVERSTRESS OR DEFORMATION TO PERMANENT BRIDGE MEMBERS.

ALL FASTENERS ARE 7/8" DIAMETER ASTM F3125 GRADE A325, TYPE 1, EXCEPT AS NOTED.

REAM SUBDRILLED OR SUBPUNCHED HOLES FOR FIELD SPLICES IN THE FABRICATION SHOP.

PREPARE BEARING AREAS AS SPECIFIED IN PUB 408, SECTION 1001.3(K)9.

DO NOT MAKE WELDS BY MANUAL SHIELDED METAL ARC PROCESS FOR PRIMARY GIRDER WELDS, SUCH AS FLANGE-TO-WEB WELDS OR FOR SHOP SPLICES OF WEBS AND FLANGES.

DO NOT WELD PERMANENT METAL DECK FORMS OR OTHER ATTACHMENTS TO GIRDER TOP FLANGES IN TENSION AREAS. (TENSION AREAS OF TOP FLANGES ARE DESIGNATED ON THE PLANS.) THREADED STUDS FOR THE SUPPORT OF THE OVERHANG DECK FORMING BRACKET IS PERMITTED PROVIDED THE THREADED STUD IS ATTACHED WITH THE SAME WELDING PROCESSING AS THE SHEAR STUDS.

WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.

PROVIDE WELDED STUD SHEAR CONNECTORS MANUFACTURED FROM STEEL CONFORMING TO ASTM A108.

SET ANCHOR BOLTS TO TEMPLATE OR IN PREFORMED HOLES. DO NOT DRILL UNLESS SPECIFICALLY INDICATED ON PLANS. FILL THE PREFORMED HOLES WITH NON-SHRINK GROUT. FILL THE CLEARANCE BETWEEN ANCHOR BOLTS AND HOLES IN MASONRY PLATES WITH APPROVED NON-HARDENING CAULKING COMPOUND CONFORMING TO SECTION 705.8.

PAINT ALL STRUCTURAL STEEL PER PUB 408, SECTION 1060. THE COLOR OF THE FINISH COAT SHALL BE GREEN SIMILAR TO FEDERAL COLOR NO. 14260. CONTRACTOR TO SUBMIT PAINT CHIP SAMPLES OF THIS AND SIMILAR COLORS FOR FINAL APPROVAL BY THE OWNER.

STABILITY OF PARTIAL GIRDERS AND COMPLETE GIRDERS IS TO BE MAINTAINED BY THE CONTRACTOR DURING ERECTION, UNTIL ALL GIRDERS AND DIAPHRAGMS ARE IN-PLACE AND ALL BOLTS ARE PROPERLY INSTALLED. ERECTION LOADS INCLUDING SELF WEIGHT OF THE STEEL MEMBERS, WIND LOADING AND CONSTRUCTION LIVE LOAD EFFECTS ARE TO BE EVALUATED BY THE CONTRACTOR FOR STABILITY, STRESSES AND DEFLECTIONS ON THE STEEL MEMBERS DURING ANY STAGE OF ERECTION.

AN ALTERNATE SLAB PLACEMENT SEQUENCE MAY BE PERMITTED AT THE REQUEST OF THE CONTRACTOR. SUBMIT FOR REVIEW AND APPROVAL TO THE DEPARTMENT A REVISED SLAB PLACEMENT SEQUENCE WITH SUPPORT CALCULATIONS. SATISFY THE REQUIREMENTS OF THE ORIGINAL SLAB PLACEMENT SEQUENCE. OBTAIN WRITTEN APPROVAL PRIOR TO THE USE OF THE REVISED SLAB PLACEMENT SEQUENCE AND/OR CAMBER VALUES. NO COMPENSATION WILL BE ALLOWED FOR THE DEVELOPMENT AND APPROVAL OF THE REVISED SLAB PLACEMENT SEQUENCE AND CAMBER VALUES. THE DEPARTMENT WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE REVISED SLAB PLACEMENT SEQUENCE AND CAMBER VALUES.

THE STEEL SUPERSTRUCTURE SHALL BE DETAILED AND FABRICATED FOR STEEL DEAD LOAD FIT (SDLF).

BLAST CLEAN THE FAYING SURFACES OF SPLICES AND CONNECTIONS OF ALL STRUCTURAL ELEMENTS IN ACCORDANCE WITH SECTION 1060.3(B)3. REBLAST UNPAINTED ELEMENTS THAT REMAIN UNASSEMBLED FOR A PERIOD OF 12 MONTHS OR MORE FOLLOWING INITIAL CLEANING.

PROVIDE A CLASS B FAYING SURFACE CONDITION ON ALL BOLTED PARTS.

CHARPY V-NOTCH (CVN) TESTING (ZONE 2) IS REQUIRED PER PUB. 408 SECTION 1105.02(a)5 ON ALL GIRDER TENSION FLANGES, GIRDER WEB PLATES, AND SPLICE PLATES. TENSION FLANGES ARE DESIGNED ON THE GIRDER DRAWINGS.

BEAM HAUNCH REINFORCEMENT WAS NOT REQUIRED FOR COMPUTED BEAM CAMBERS. HOWEVER, PROVIDE HAUNCH REINFORCEMENT IN ACCORDANCE WITH BC-752M WHERE IRREGULAR BEAM CAMBERS OR OTHER CONSTRUCTION CONDITIONS PROVIDE ACTUAL HAUNCHES THAT EXCEED THE THICKNESS SPECIFIED IN BC-752M.

EXISTING BRIDGE PLANS:

DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE OWNER OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.

THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS NOT PART OF THE PLANS, PROPOSAL, OR CONTRACT AND IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED AGREEMENT THAT INFORMATION IS CORRECTLY SHOWN. THE BIDDER IS NOT TO RELY ON THIS INFORMATION BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COSTS AND/OR QUANTITIES OF WORK PERFORMED MAY DIFFER FROM THOSE INDICATED.

WELDING:

DO NOT FIELD WELD ON ANY PART OF THE BRIDGE, EXCEPT WHERE SHOWN ON THE DRAWINGS, WITHOUT APPROVAL OF THE DEPARTMENT.

WELDING OF STRUCTURAL STEEL: USE THE SHIELDED METAL ARC PROCESS AND LOW HYDROGEN ELECTRODES THAT ARE COMPATIBLE WITH THE BASE METAL AS SPECIFIED, AND IN ACCORDANCE WITH AN APPROVED WELD PROCEDURE SPECIFICATION.

MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE, AND INCORPORATE IN THE FINAL WELD. NO OTHER TACK WELDING WILL BE PERMITTED.

DO NOT WELD WHEN SURFACES TO BE WELDED ARE MOIST OR EXPOSED TO RAIN, SNOW, OR WIND, OR WHEN WELDERS ARE EXPOSED TO INCLEMENT CONDITIONS THAT WILL ADVERSELY AFFECT THE QUALITY OF THE WORK.

DO NOT WELD OR BURN WHEN THE TEMPERATURE IS BELOW 0 DEGREES F. PREHEAT AND MAINTAIN THE TEMPERATURE OF THE METAL TO AT LEAST 70 DEGREES F WHEN THE TEMPERATURE OF THE METAL IS BETWEEN 0 DEGREES F AND 32 DEGREES F DURING WELDING OR BURNING.

PREHEAT THE STEEL TO THE SPECIFIED MINIMUM TEMPERATURE FOR A DISTANCE EQUAL TO THE THICKNESS OF THE PART BEING WELDED, BUT NOT LESS THAN 3 IN. IN ALL DIRECTIONS FROM THE POINT OF WELDING.

REMOVE BY APPLICATION OF HEAT ANY MOISTURE PRESENT AT POINT OF WELD. PROVIDE WINDBREAKS FOR PROTECTION FROM DIRECT WIND.

PRIOR TO PLACING THE WELD, THOROUGHLY CLEAN ALL PORTIONS OF NEW AND EXISTING SURFACES TO RECEIVE WELDS OF ALL FOREIGN MATTER, INCLUDING PAINT FILM FOR A DISTANCE OF 2 IN. FROM EACH SIDE OF THE OUTSIDE LINES OF THE WELD.

TEST COMPLETED WELDS USING VISUAL AND NONDESTRUCTIVE METHODS IN ACCORDANCE WITH AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE CHAPTER 6.

UTILITY NOTES:

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

BRIDGE MOUNTED LIGHT POLE ATTACHMENT LOCATIONS

ABUT. 1: STA. 14+20.00 LEFT

PIER 1: STA. 15+09.21 RIGHT

PIER 2: STA. 16+20.79 LEFT

PIER 3: STA. 17+09.21 RIGHT

ABUT. 2: STA. 18+29.00 LEFT

PROTECTIVE COATING NOTES:

PROVIDE PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES PENETRATING SEALER, BRIDGE SUPERSTRUCTURE) IN ACCORDANCE WITH PUB. 408, SECTION 1019.

FOR BRIDGE SUPERSTRUCTURE: TOP SURFACES OF DECK, BARRIER, SIDEWALK, AND BOTH BARRIER FACES.

FOR BRIDGE APPROACHES: TOP SURFACES OF SIDEWALK, MOMENT SLABS, APPROACH SLABS, TOP AND BOTH FACES OF BARRIERS.

LIST OF COMMON ABBREVIATIONS

B.O.F.	BOTTOM OF FOOTING
T.O.F.	TOP OF FOOTING
T.O.R.	TOP OF ROCK
T.L.P.E.	TOP OF LEVELING PAD ELEVATION
EL.	ELEVATION
W.P.	WORK POINT
TYP.	TYPICAL
BRGS.	BEARINGS
F.F.	FRONT FACE
R.F.	REAR FACE
O.F.	OUTSIDE FACE
E.F.	EACH FACE
E.W.	EACH WAY

Mork	Description	By	Chk'd.	Recm'd.	Date

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
GENERAL NOTES - 1

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056953

RECOMMENDED 10/20/2025

SHEET 4 OF 63

L-435

DES: PPN | DWG: COT | CKD: PPN

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FOUNDATION NOTES:

SPREAD FOOTINGS MAY BE ORDERD BY THE ENGINEER TO BE AT ANY ELEVATION OR ANY DIMENSION NECESSARY TO PROVIDE A PROPER FOUNDATION.

FINAL PREPARED SUBGRADE TO BE INSPECTED AND APPROVED BY THE DISTRICT STRUCTURE CONTROL ENGINEER OR DISTRICT GEOTECHNICAL MANAGER.

OVEREXCAVATE THE EXISTING SOILS AT ABUTMENT 1 MSE WALLS TO THE RECOMMENDED DEPTH OF OVEREXCAVATION AS SHOWN ON THE CONTRACT DRAWINGS. EXPOSE THE UNDERLYING SEWER LINE AND BACKFILL WITH FLOWABLE FILL. SEE SPECIAL PROVISION - FLOWABLE BACKFILL, TYPE C IN ABANDONED PIPE.

PROOF-ROLL THE EXPOSED SUBGRADE FOR THE MSE WALLS AT ABUTMENT 1 IN ACCORDANCE WITH SECTION 206.3 (A) AND AS DIRECTED BY THE DISTRICT GEOTECHNICAL MANAGER OR REPRESENTATIVE. IF SOFT, YIELDING AREAS ARE ENCOUNTERED, STABILIZE THE BASE OF THE EXCAVATION WITH AASHTO NO. 1 COARSE AGGREGATE (SEE SPECIAL PROVISION - FOUNDATION STABILIZATION WITH COARSE AGGREGATE) UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEERING MANAGER OR REPRESENTATIVE AND THEN BACKFILL TO THE BOTTOM OF THE LEVELING PAD WITH AASHTO NO. 57 COARSE AGGREGATE.

EXCAVATE TO THE PLANNED BEARING ELEVATION USING MECHANICAL EQUIPMENT, MAKING ALL EXCAVATIONS NEAT. DO NOT PERMIT BLASTING FOR ROCK EXCAVATION.

CONTINUOUSLY DEWATER ALL EXCAVATIONS.

H-PILES AND MICOPILE BOND LENGTH WILL TERMINATE IN LIMESTONE BEDROCK.CONSIDERABLE VARIATION IN THE END ELEVATIONS MAY RESULT.

PILE DRIVING METHOD: ALL H-PILES TO BE DRIVEN TO CASE 1 ABSOLUTE REFUSAL ON BEDROCK (PER PUBLICATION 408, SECTION 1005.3(B)5) IN ACCORDANCE WITH METHOD A (SECTION 1.7.5.1(A) OF DM-4, VOLUME 1, PART A). USE THE WAVE EQUATION TO CONTROL PILE DRIVING. INSTALL PILES THROUGH THE REINFORCED FILL IN SMOOTH OR GALVANIZED STEEL OR PLASTIC PIPES BACKFILLED WITH COARSE SAND AFTER PILE INSTALLATION (SEE SPECIAL PROVISION - MECHANICALLY STABILIZED RETAINING WALL SYSTEMS). THREE (3) TEST PILES ARE TO BE PROVIDED AT ABUTMENT 1. MONITOR ALL TEST PILE INSTALLATIONS USING THE PILE DRIVING ANALYZER (PDA) SYSTEM IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1005.3(H)2.
THE DEPARTMENT SHALL VERIFY, FROM THE TEST PILE DRIVING RESULTS, THE CAPABILITY OF THE PILE HAMMER SELECTED BY THE CONTRACTOR. DRIVE BEARING PILES TO ABSOLUTE REFUSAL INTO THE STRATUM DEFINED BY A TIP ELEVATION WHICH IS PREDETERMINED BY THE DEPARTMENT FROM TEST
PILES. THE DEPARTMENT SHALL DETERMINE THE ACCEPTABILITY OF THE BEARING PILES WHICH ATTAIN ABSOLUTE REFUSAL ABOVE THE PREDETERMINED TIP ELEVATIONS.

PILE TYPE: HP14x117 WITH CAST TIP REINFORCEMENT IN ACCORDANCE WITH PUBLICATION 408 SECTION 1005.2(c).

DO NOT CUT PILE WEB, FLANGES OR FOOTING REINFORCEMENT BARS TO ACCOMMODATE REINFORCEMENT BAR REPLACEMENT, UNLESS DIRECTED BY THE ENGINEER.

DO NOT DRIVE BEARING PILES UNTIL THE REPRESENTATIVE TEST PILES ARE COMPLETED AND EVALUATED BY THE ENGINEER.

MICROPILE TESTING: VERIFICATION AND PROOF LOAD TESTING TO BE IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1007.3(j)2, CASE 2. PERFORM ONE (1) VERIFICATION AND TWO (2) PROOF TESTS AT PIER 3. AT ABUTMENT 2 PERFORM ONE (1) VERIFICATION TEST PER ZONE AND PROOF TEST A MINIMUM OF 5 PERCENT OF THE MICROPILES.

EXPLORATORY AIR TRACK DRILLING IS REQUIRED AT ABUTMENT 1, PIER 1, AND PIER 2 (SEE SPECIAL
PROVISION - EXPLORATORY AIR TRACK DRILLING).

CONTRACTOR IS SOLELY RESPONIBLE FOR THE DESIGN OF ANY AND ALL TEMPORARY EXCAVATIONS IN ACCORDANCE WITH CURRENT OSHA REGULATIONS (29 CFR PART 1926.650.652, SUBPART P). SEE STANDARD SPECIAL PROVISIONS TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM.

THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES. DIRECT SURFACE RUNOFF AWAY FROM THE EXCAVATION. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS.

THE FOLLOWING TABLE IS TO BE COMPLETED FOR THE TEST PILES AT ABUTMENT 1 AFTER INSTALLATION
ON THE "AS-BUILT" PLANS.

SUBSTRUCTURE UNIT	PILE TYPE	PILE TIP (NONE/NORMAL/HEAVY DUTY)	PILE TIP ELEVATION	FACTORED DESIGN LOAD (KIPS)	ULTIMATE PILE CAPACITY AT END OF DRIVING (KIPS)	WEAP OR PDA

M.S.E. WALL NOTES:

DESIGN AND CONSTRUCT A MECHANICALLY STABILIZED EARTH (M.S.E.) RETAINING WALL IN ACCORDANCE WITH THESE PLANS; PENNDOT DESIGN MANUAL, PART 4, SECTION 11.10 AND RELATED PENNDOT STRIKE-OFF LETTERS, SPECIAL PROVISIONS AND PUB. 408 SPECIFICATIONS.

THIS PLAN IS FOR GENERAL DIMENSIONS AND ELEVATIONS OF WALLS. ACTUAL ARRANGEMENT OF M.S.E. WALL PANELS TO BE SHOWN ON SHOP DRAWINGS PROVIDED BY THE MANUFACTURER. DEVELOP SHOP DRAWINGS BASED ON PENNDOT STANDARD DRAWING BC-799M AND THE CONTRACT SPECIAL PROVISIONS.

ALTERNATE WALL TYPES ARE PERMITTED AS INDICATED, PROVIDED A COMPLETE STRUCTURE FOUNDATION GEOTECHNICAL REPORT FOR THE REDESIGNED WALL IS SUBMITTED AND APPROVED BY THE DEPARTMENT.

USE THE FOLLOWING PARAMETERS FOR M.S.E. DESIGN:

REINFORCED SOIL ZONE:	EMBANKMENT BACKFILL:	FOUNDATION SOILS (ABUT. 1 ONLY):
FRICTION ANGLE, ø = 34°	FRICTION ANGLE, ø = 30°	FRICTION, ø = 26°
COHESION, C' = 0 KSF	COHESION, C' = 0 KSF	COHESION, C' = 0 KSF
UNIT WEIGHT, γ = 90 TO 120 PCF	UNIT WEIGHT, γ = 90 TO 120 PCF	UNIT WEIGHT, γ = 124 TO 126 PCF (AVG)

#57 COARSE AGGREGATE IS PERMITTED AS SPECIFIED BACKFILL IF MATERIAL MEETS REQUIREMENTS OF SPECIAL PROVISIONS.

USE A COEFFICIENT OF SLIDING FRICTION OF 0.49 (ABUT. 1), 0.58 (ABUT. 2) AND A SLIDING RESISTANCE PHI FACTOR OF 1.0 FOR WALL DESIGN.

USE THE FOLLOWING MINIMUM STRAP LENGTHS AND BEARING RESISTANCE FOR WALL DESIGN:

	MIN. STRAP LENGTH:	FACTORED BEARING RESISTANCE:
ABUTMENT 1: M.S.E. WALL SUPPORTED ON SOIL		
WING A	24.00 FT.	4.97 KSF
WING B	20.00 FT.	5.18 KSF
ABUTMENT 2: M.S.E. WALL SUPPORTED BY CONCRETE SLAB AND MICROPILES		
WING C, ZONE1	22.10 FT.	6.61 KSF
WING C, ZONE2	16.20 FT.	4.93 KSF
WING C, ZONE3	10.00 FT.	2.90 KSF
WING D, ZONE1	22.10 FT.	6.61 KSF
WING D, ZONE2	16.20 FT.	4.93 KSF
WING D, ZONE3	10.00 FT.	2.90 KSF

DESIGN WALLS FOR A LIVE LOAD SURCHARGE OF 3 FEET.

DO NOT CUT REINFORCEMENT STRIPS OR MESH.

PROVIDE 4' DIA. WEEPHOLES IN THE MSE WALL PANELS AT 10' MAX SPACING AND 6" DIA. PERFORATED DRAIN PIPE ALONG THE FRONT FACE OF THE LOWER MSE WALL AT THE NEAR APPROACH AND ALONG THE FACES OF WING C AND WING D AT THE FAR APPROACH. ALIGN PERFORATED DRAIN PIPE IN LINE WITH WEEPHOLES.

THE M.S.E. WALL DESIGNER/SUPPLIER MUST CERTIFY ALL ASSUMPTIONS MADE IN THE DESIGN. PLACE THE FOLLOWING NOTE NEAR THE P.E. SEAL ON THE FIRST SHEET OF THE DRAWINGS:
"ALL DESIGN ASSUMPTIONS ARE VALIDATED THROUGH NOTES OR DETAILS ON THESE DRAWINGS."

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
GENERAL NOTES - 2

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056953

RECOMMENDED 10/20/2025

SHEET 5 OF 63

L-435

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MICROPILE NOTES

PLACE EMBANKMENT TO PROPOSED BOTTOM OF MICROPILE CAP ELEVATION PRIOR TO MICROPILE INSTALLATION.

TENSION IN MICROPILES HAS NOT BEEN PERMITTED AT THE SERVICE LIMIT STATE.

1/16" LOSS ON THE OUTSIDE PERIMETER OF MICROPILE CASING WAS CONSIDERED IN DESIGN FOR STRUCTURAL CAPACITY.

PROVIDE NEW DOMESTIC STEEL CASING WITH A MINIMUM YIELD STRENGTH OF 80 KSI MEETING ASTM A252 GRADE 3. DOMESTIC N80 PRIME OR NEW MILL SECONDARY STEEL CASING WITH A MINIMUM YIELD STRENGTH OF 80 KSI IS ACCEPTABLE, PROVIDED IT MEETS OR EXCEEDS THE REQUIREMENTS OF ASTM A252 GRADE 3 AND IS ACCOMPANIED BY TESTING AND CERTIFICATION REQUIRED BY SECTION 106.01.

PROVIDE A 9 5/8" (MINIMUM) OUTSIDE DIAMETER STEEL CASING WITH A 0.435" WALL THICKNESS.

PROVIDE GRADE 75 REINFORCING STEEL BARS FOR CORE REINFORCEMENT MEETING THE REQUIREMENTS OF ASTM A615 FOR PRODUCTION PILES.

PROVIDE GRADE 150 REINFORCING STEEL BARS FOR CORE REINFORCEMENT MEETING THE REQUIREMENTS OF ASTM A722 FOR VERIFICATION TEST PILES.

USE NEAT CEMENT GROUT WITH f'c=4 KSI FOR MICROPILES.

EACH DESIGN BOND ZONE MUST BE A MINIMUM OF:

10 FEET OF COMPETENT ROCK (EXCLUDING 1.0' PLUNGE LENGTH)
OR AS DETERMINED BASED ON LOAD TEST DATA.

NO ONE SOIL SEAM (WITHIN BOND ZONE) IN EXCESS OF 0.5' WILL BE ACCEPTABLE.

NO BOND ZONE SHALL BE TERMINATED WITHOUT 2.0' (MIN.) OF COMPETENT ROCK AT THE BOTTOM OF THE BOND ZONE.

USE A 9 5/8" (MINIMUM) DIAMETER GROUTED BOND ZONE.

ESTIMATED TOP OF ROCK ELEVATION (TOR), ESTIMATED TOP OF BOND ZONE ELEVATION (ETBZE) AND ESTIMATED MICROPILE TIP ELEVATIONS (EMPTE) ARE AS FOLLOWS:

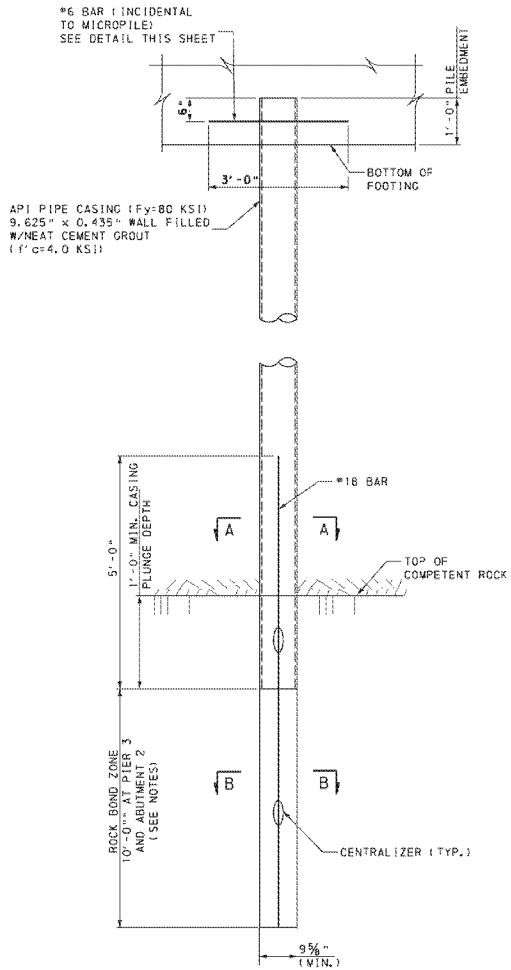
PIER 3:

EMPTE 346.0
ETBZE 336.0
TOR VARIES (SEE BORINGS FOR MORE INFORMATION)

ABUTMENT 2 AND MSE WALL SLAB FOUNDATION ZONES:

EMPTE 350.0
ETBZE 340.0
TOR VARIES (SEE BORINGS FOR MORE INFORMATION)

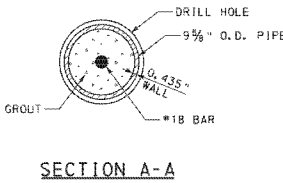
THE MICROPILE CONTRACTOR SHALL PREPARE AND COMPLETE A MICROPILE INSTALLATION RECORD FOR EACH MICROPILE EXCAVATED AND CONSTRUCTED. THIS RECORD SHALL PROVIDE ALL EXCAVATION AND INSTALLATION DATA AND WILL BECOME THE AS-BUILT RECORD FOR THE MICROPILE.



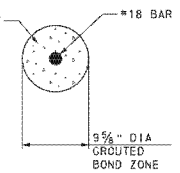
ELEVATION
MICROPILE DETAIL

VERTICAL MICROPILE SHOWN, BATTERED MICROPILE SIMILAR

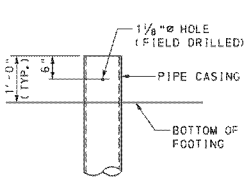
12 0 12 INCHES



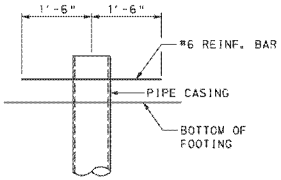
SECTION A-A
NTS



SECTION B-B
NTS



ELEVATION



SIDE VIEW

MICROPILE-TO-FOOTING CONNECTION DETAIL

NOT TO SCALE

NOTE:
AT EDGES OF FOOTINGS, FIELD BEND THE #6 BAR TO MAINTAIN PROPER EDGE CLEARANCES.

AT PIER 3 AND ABUTMENT 2, WHERE FOOTING REINFORCEMENT IS REQUIRED TO PASS THROUGH THE PIPE CASING, FIELD DRILL HOLES TO ACCOMMODATE THE REINFORCING. PLACE THE HOLE TO MAINTAIN THE REINFORCEMENT LOCATION FROM THE BOTTOM OF THE FOOTING. ALLOW ENOUGH CLEARANCE IN THE CASING TO PASS THE REINFORCEMENT THROUGH THE HOLE EASILY. DO NOT LAP REINFORCEMENT INSIDE THE PIPE CASING.

THE CONTRACTOR MAY ADD AN EQUIVALENT AMOUNT OF ADDITIONAL REINFORCEMENT TO THE FOOTING ABOVE THE CASING, TO AVOID PASSING THE REINFORCEMENT THROUGH THE CASING IF APPROVED BY THE DEPARTMENT. THE ABOVE CONNECTION DETAIL SHALL BE MAINTAINED WHERE ANY ADDITIONAL APPROVED REINFORCEMENT IS ADDED ABOVE THE CASING.

Mark	Description	By	Chk'd	Recm'd	Date
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COMMONWEALTH OF PENNSYLVANIA
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YORK COUNTY
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WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

MICROPILE NOTES AND DETAILS

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
PAUL PETER NASADOS, JR.
ENGINEER
PE065863

RECOMMENDED 10/20/2025

SHEET 6 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN

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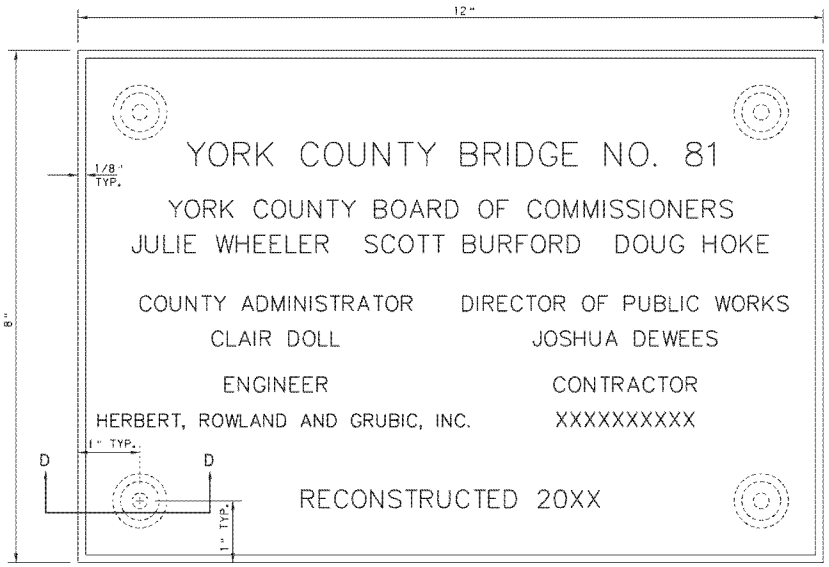


BRONZE PLAQUE DETAIL - YORK COUNTY
NOT TO SCALE

BRIDGE LOAD RATINGS (TONS) WITH FUTURE WEARING SURFACE

ADTT:	144 (2026)
ADT:	155 (2046)
LIVE LOAD DISTRIBUTION METHOD:	DM-4 DISTRIBUTION FACTORS
DESIGN & ANALYSIS METHOD:	LOAD AND RESISTANCE FACTOR DESIGN (LRFD)
BEAM TYPE & SIZE	52" COMPOSITE STEEL PLATE GIRDER

		H-20	HS-20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	CRITICAL GIRDER	F. INT.	F. INT.	EXT.	EXT.	F. INT.	---	---
	CRITICAL LOCATION	0.75L, (1)	0.75L, (1)	0.6L, (4)	0.6L, (4)	0.75L, (1)	---	---
	LIMIT STATE	STR-IP	STR-IP	SERV-II	SERV-II	STR-IP	---	---
	RATING FACTOR	1.906 (M)	1.906 (M)	2.664 (M)	2.633 (M)	1.131 (M)	---	---
	RATING (TONS)	38.1	68.6	97.6	105.3	---	---	---
OPERATING RATING (OR)	CRITICAL GIRDER	EXT.	EXT.	EXT.	EXT.	EXT.	EXT.	EXT.
	CRITICAL LOCATION	0.75L, (1)	0.75L, (1)	0.6L, (4)	0.6L, (4)	0.75L, (1)	1.00L, (3)	0.75L, (1)
	LIMIT STATE	STR-II	STR-II	SERV-IIA	SERV-IIA	STR-IA	STR-II	STR-II
	RATING FACTOR	2.562 (M)	2.562 (M)	3.464 (M)	3.423 (M)	1.520 (M)	1.780 (M)	1.113 (M)
	RATING (TONS)	51.2	92.2	126.9	136.9	---	181.5	183.7
MAXIMUM FACTORED RESISTANCE	MAX. FACTORED FLEXURAL RESISTANCE	7,680 KIP-FT						
	CRITICAL LOCATION	@ 0.00' ALL SPANS, ALL GIRDERS						
	MAX. FACTORED SHEAR RESISTANCE	620 KIPS						
	CRITICAL LOCATION	@ 0.00' ALL SPANS, ALL GIRDERS						

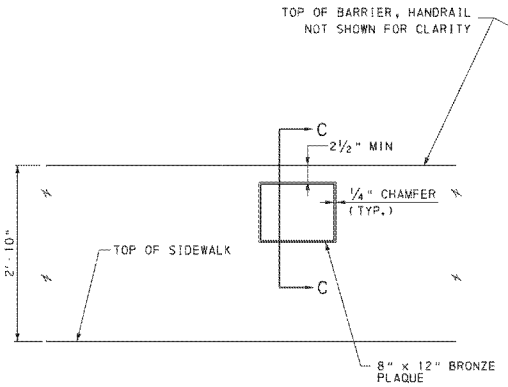
BRIDGE LOAD RATINGS (TONS) WITHOUT FUTURE WEARING SURFACE

ADTT:	144 (2026)
ADT:	155 (2046)
LIVE LOAD DISTRIBUTION METHOD:	DM-4 DISTRIBUTION FACTORS
DESIGN & ANALYSIS METHOD:	LOAD AND RESISTANCE FACTOR DESIGN (LRFD)
BEAM TYPE & SIZE	52" COMPOSITE STEEL PLATE GIRDER

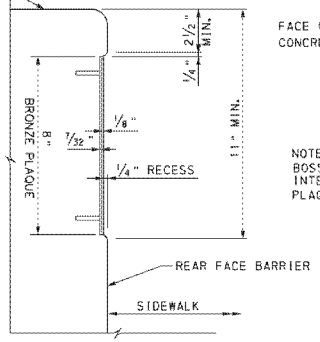
		H-20	HS-20	ML-80	TK527	PHL-93	P-82	P2016-13
INVENTORY RATING (IR)	CRITICAL GIRDER	F. INT.	F. INT.	EXT.	EXT.	F. INT.	---	---
	CRITICAL LOCATION	0.75L, (1)	0.75L, (1)	0.6L, (4)	0.6L, (4)	0.75L, (1)	---	---
	LIMIT STATE	STR-IP	STR-IP	SERV-II	SERV-II	STR-IP	---	---
	RATING FACTOR	2.080 (M)	2.080 (M)	2.771 (M)	2.738 (M)	1.234 (M)	---	---
	RATING (TONS)	41.6	74.9	101.5	109.5	---	---	---
OPERATING RATING (OR)	CRITICAL GIRDER	EXT.	EXT.	EXT.	EXT.	EXT.	EXT.	EXT.
	CRITICAL LOCATION	0.75L, (1)	0.75L, (1)	0.6L, (4)	0.6L, (4)	0.75L, (1)	1.00L, (3)	0.75L, (1)
	LIMIT STATE	STR-II	STR-II	SERV-IIA	SERV-IIA	STR-IA	STR-II	STR-II
	RATING FACTOR	2.800 (M)	2.800 (M)	3.602 (M)	3.559 (M)	1.661 (M)	1.945 (M)	1.217 (M)
	RATING (TONS)	56.0	100.8	132.0	142.4	---	198.4	200.8
MAXIMUM FACTORED RESISTANCE	MAX. FACTORED FLEXURAL RESISTANCE	7,680 KIP-FT						
	CRITICAL LOCATION	@ 0.00' ALL SPANS, ALL GIRDERS						
	MAX. FACTORED SHEAR RESISTANCE	620 KIPS						
	CRITICAL LOCATION	@ 0.00' ALL SPANS, ALL GIRDERS						

RATING NOTES:

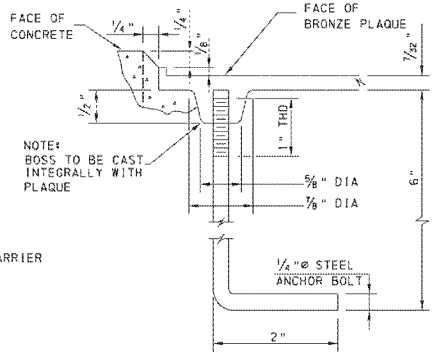
1. (1) DENOTES SPAN 1.
2. (2) DENOTES SPAN 2.
3. (3) DENOTES SPAN 3.
4. (4) DENOTES SPAN 4.
5. (M) DENOTES CRITICAL RATING GOVERNED BY MOMENT.
6. (V) DENOTES CRITICAL RATING GOVERNED BY SHEAR.
7. EXT. DENOTES EXTERIOR GIRDERS 1 AND 7.
8. F. INT. DENOTES FIRST INTERIOR GIRDERS 2 AND 6.
9. O. INT. DENOTES OTHER INTERIOR GIRDERS 3 TO 5.



BRONZE PLAQUE LOCATION
NOT TO SCALE



SECTION C-C
NOT TO SCALE



SECTION D-D
NOT TO SCALE

PLACEMENT NOTES:
1. PLACE ℄ PLAQUES ON REAR FACE OF BARRIER, SO IT FACES THE SIDEWALK, AT THE FOLLOWING LOCATIONS:
   - STA. 13+95.00 RT.
   - STA. 18+80.00 LT.
2. IF A DEFLECTION JOINT IS ENCOUNTERED, SHIFT THE BRIDGE PLAQUE TWO FEET TO AVOID THE JOINT.

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

BRIDGE RATINGS AND BRIDGE PLAQUE

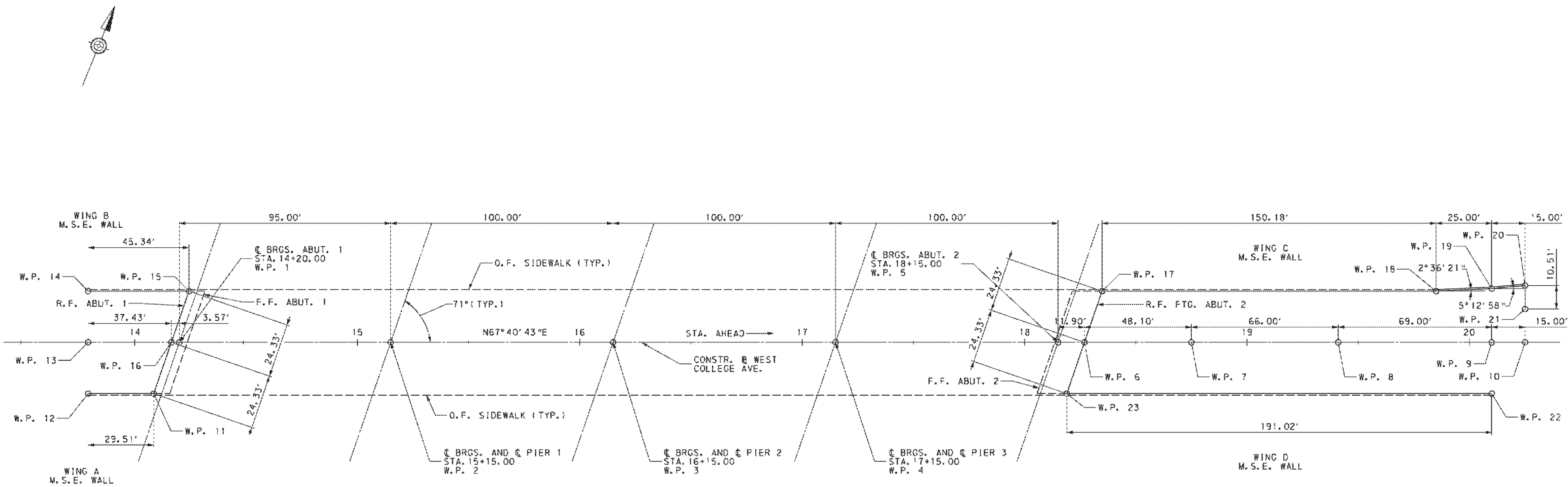
COMMONWEALTH OF PENNSYLVANIA
PAUL PETER MASADO, JR.
PROFESSIONAL
ENGINEER
PE058853

RECOMMENDED 10/20/2025

SHEET 7 OF 63

L-435

DES: PPN | DWG: TJC | CKD: PPN



WORKING POINT COORDNATES		
W.P.	NORTHING	EASTING
1	228530.5303	2253745.7029
2	228566.6113	2253833.5844
3	228604.5913	2253926.0913
4	228642.5713	2254018.5981
5	228680.5512	2254111.1050
6	228685.0702	2254122.1117
7	228703.3392	2254166.6091
8	228728.4060	2254227.6637
9	228754.6122	2254291.4934
10	228760.3092	2254305.3695
11	228504.8882	2253743.8052
12	228493.6820	2253716.5104
13	228514.9586	2253707.7750
14	228536.2351	2253699.0397
15	228553.4571	2253740.9867
16	228529.1727	2253742.3960
17	228709.3546	2254120.7024
18	228766.3938	2254259.6313
19	228776.9413	2254282.3259
20	228783.9051	2254295.6818
21	228774.1822	2254299.6737
22	228733.3356	2254300.2288
23	228660.7858	2254123.5210

STAKE-OUT PLAN

NOT TO SCALE

NOTE:
WORK POINTS ON M.S.E. WALL ARE GIVEN ALONG THE CENTERLINE OF WALL.

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

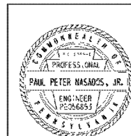
BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

STAKE OUT PLAN

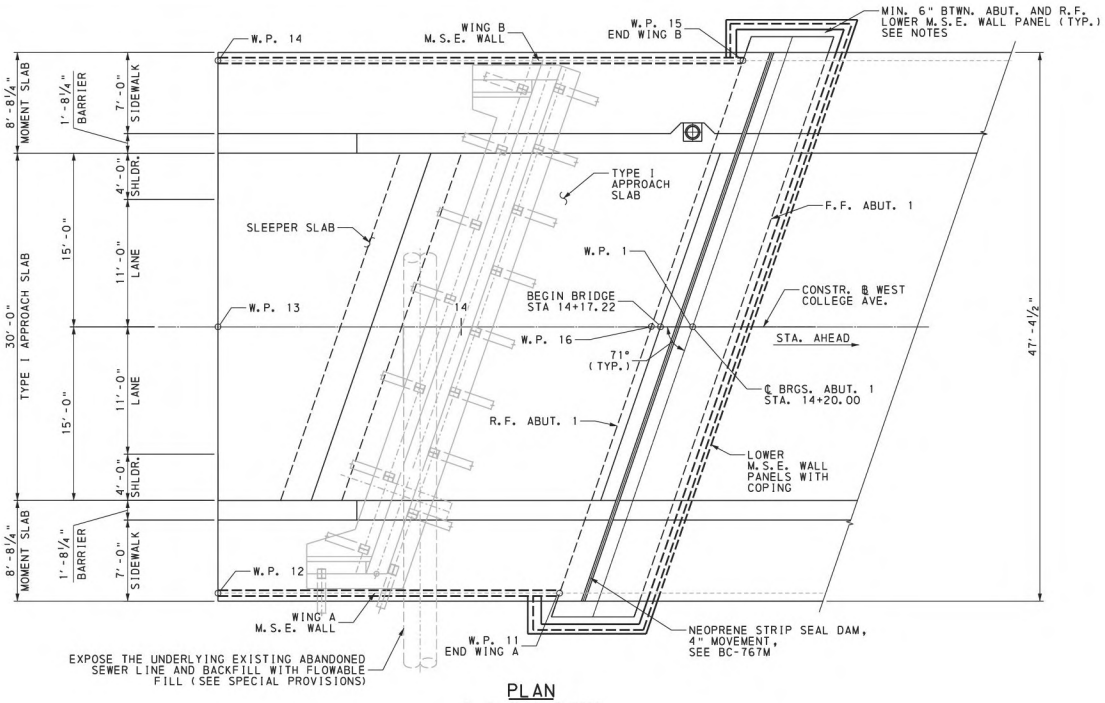


RECOMMENDED 10/20/2025

SHEET 8 OF 63

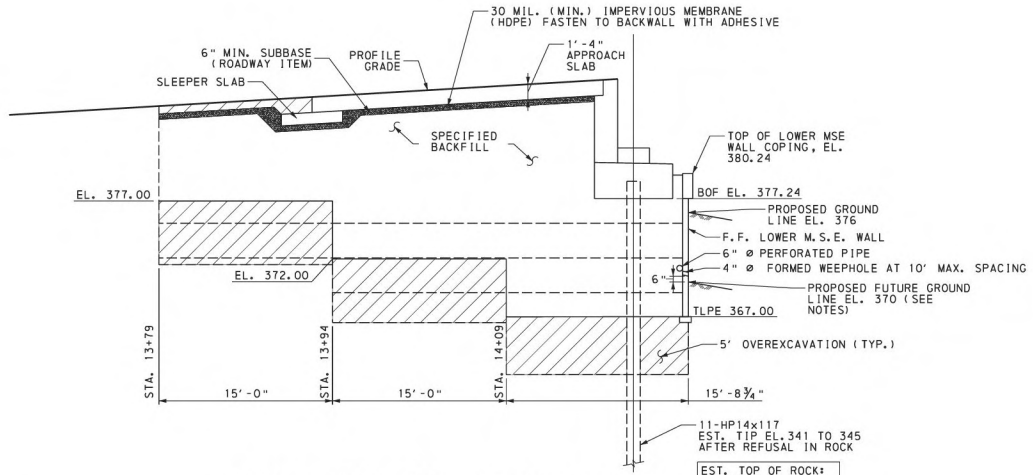
L-435

DES: PPN | DWG: DSF | CKD: PPN



PLAN

2 0 2 4 6 FEET



EST. TOP OF ROCK:
BORING B-1: 347.0
BORING B-2: 344.0
BORING B-3: 346.0
BORING B-4: 342.5

SECTION ALONG BASELINE CONSTRUCTION

2 0 2 4 6 FEET

NOTES:

1. FINAL LAYOUT OF WRAP AROUND LOWER MSE WALL TIE IN TO BE DETAILED ON WALL MANUFACTURER SHOP DRAWINGS.
2. FOR DETAILS NOT SHOWN, SEE BC-799M.
3. FOR TYPICAL ABUTMENT 1 SECTION, SEE SHEET 13.
4. FOR WING A AND B ELEVATION VIEWS, SEE SHEET 10.
5. FOR TYPICAL MOMENT SLAB SECTION, SEE SHEET 43.
6. PROVISIONS FOR ADDITIONAL UNDER-CLEARANCE HAS BEEN MADE FOR THE POSSIBILITY OF A FUTURE WALKWAY UNDER SPAN 1. THE CURRENT PROPOSED GROUND LINE SHALL BE CONSTRUCTED UNLESS OTHERWISE DICTATED BY THE DEPARTMENT.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 1-MSE WALL

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

SHEET 9 OF 63

L-435

DES: PPN | DWG: DGS | CKD: PPN

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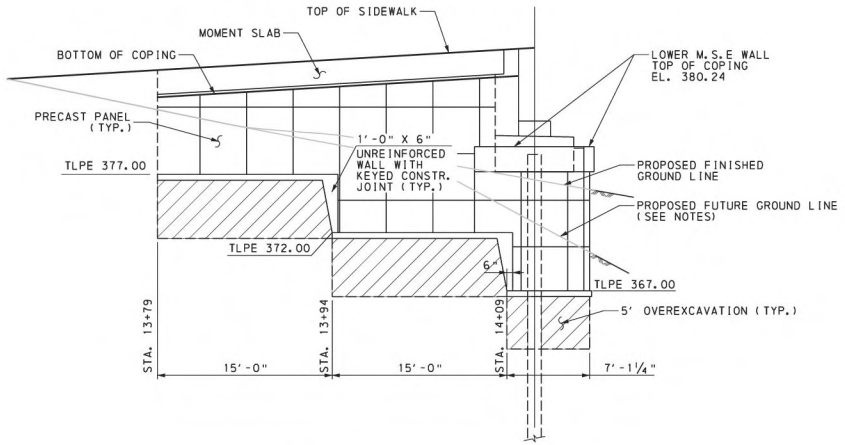


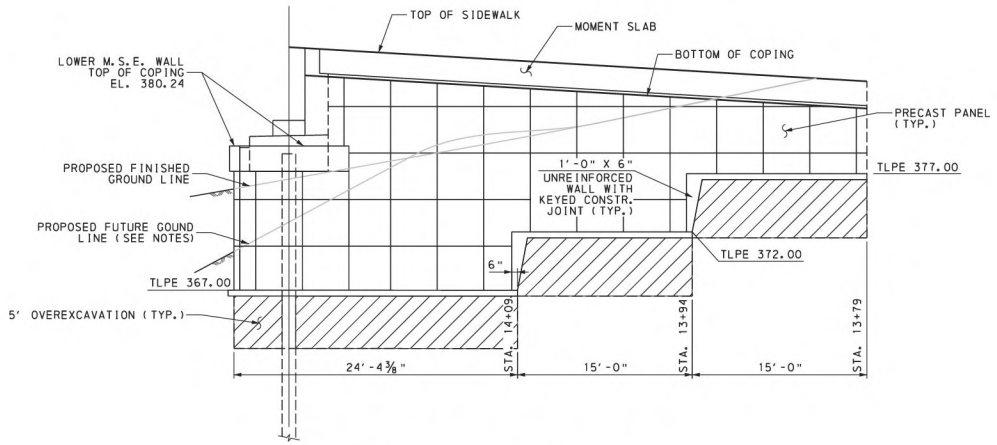
ELEVATION WING A MSE WALL

2 0 2 4 6 FEET

NOTE: BARRIER NOT SHOWN FOR CLARITY

TOP OF MSE WALL ELEVATIONS ABUTMENT 1					
STATION	WING A		WING B		REMARKS
	TS ELEV.	TW ELEV.	TS ELEV.	TW ELEV.	
13+79.00	384.58	383.45	384.58	383.45	BEGIN MSE WING A & B
13+80.00	384.64	383.51	384.64	383.51	
13+90.00	385.23	384.10	385.23	384.10	
14+00.00	385.82	384.69	385.82	384.69	
14+08.51	386.32	385.19	———	———	END MSE WING A
14+10.00	———	———	386.41	385.28	
14+20.00	———	———	387.01	385.88	
14+24.35	———	———	387.27	386.14	END MSE WING B

NOTE:
ELEVATIONS GIVEN ALONG CENTERLINE MSE WALL
TS: TOP OF SIDEWALK/COPING
TW: TOP OF WALL PANEL



ELEVATION WING B MSE WALL

2 0 2 4 6 FEET

NOTE: BARRIER NOT SHOWN FOR CLARITY

NOTES:

1. FINAL LAYOUT OF WRAP AROUND LOWER MSE WALL TIE IN TO BE DETAILED ON WALL MANUFACTURER SHOP DRAWINGS.
2. FOR DETAILS NOT SHOWN, SEE BC-799M.
3. FOR TYPICAL MOMENT SLAB SECTION, SEE SHEET 43.
4. PROVISIONS FOR ADDITIONAL UNDER-CLEARANCE HAS BEEN MADE FOR THE POSSIBILITY OF A FUTURE WALKWAY UNDER SPAN 1. THE CURRENT PROPOSED GROUND LINE SHALL BE CONSTRUCTED UNLESS OTHERWISE DICTATED BY THE DEPARTMENT.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 1-WING A & B MSE WALLS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

SHEET 10 OF 63

L-435

DES: PPN | DWG: DGS | CKD: PPN

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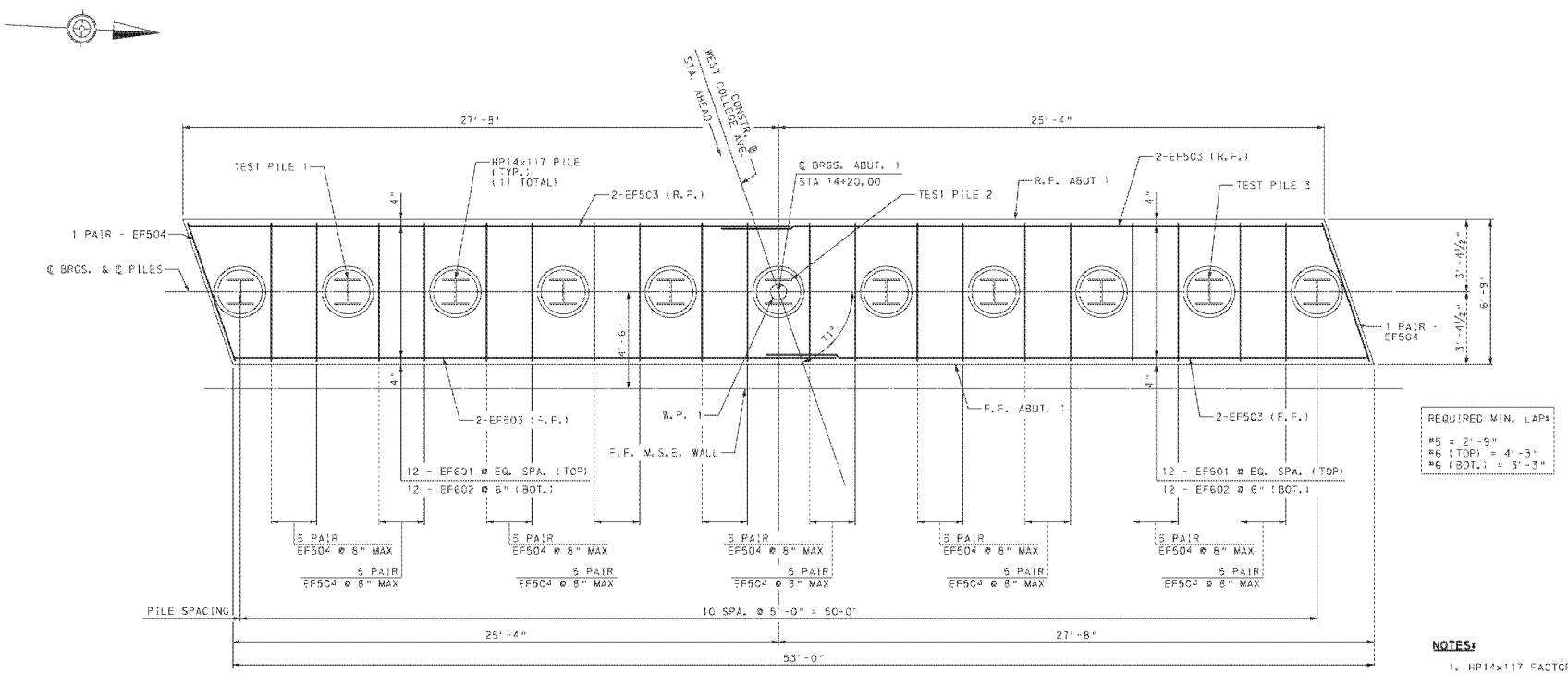


FOOTING PLAN

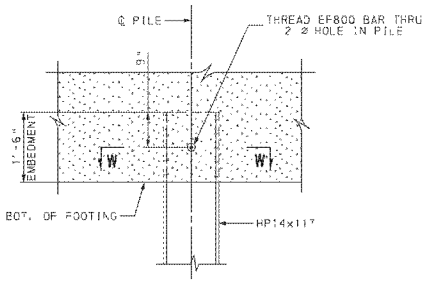
1 0 1 2 3 FEET

REQUIRED MIN. LAP:

#5 = 2'-9"
#6 (TOP) = 4'-3"
#6 (BOT.) = 3'-3"

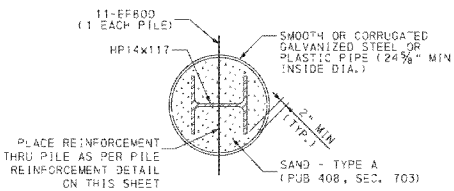
NOTES:

1. HP14x117 FACTORED AXIAL RESISTANCE: 197 KIPS FOR STR-I LIMIT STATE. CAPACITY IS BASED ON THE PILE IN SOLUBLE ROCK WITH 1/16 " SECTION LOSS.
2. MAXIMUM PILE LOAD = 197 KIPS, STR-I LIMIT STATE.



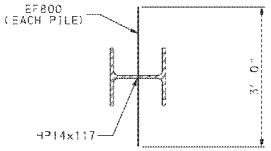
PILE REINFORCEMENT DETAIL

12 0 12 INCHES



PILE DETAIL

12 0 12 INCHES



NOTE: PROVIDE STEEL REINFORCEMENT AS SHOWN FOR ALL PILES.

SECTION W-W

12 0 12 INCHES

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK

WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

ABUTMENT 1 - FOOTING PLAN

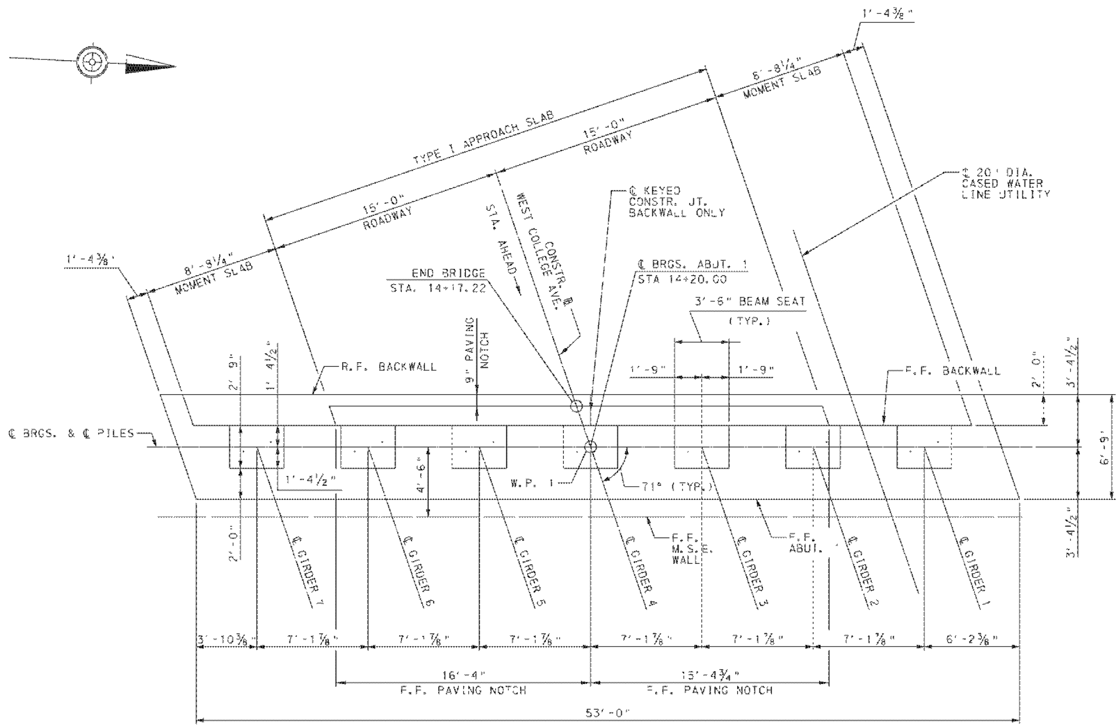
PAUL PETER MASADDS, JR. ENGINEER

RECOMMENDED 10/20/2025

SHEET 11 OF 63

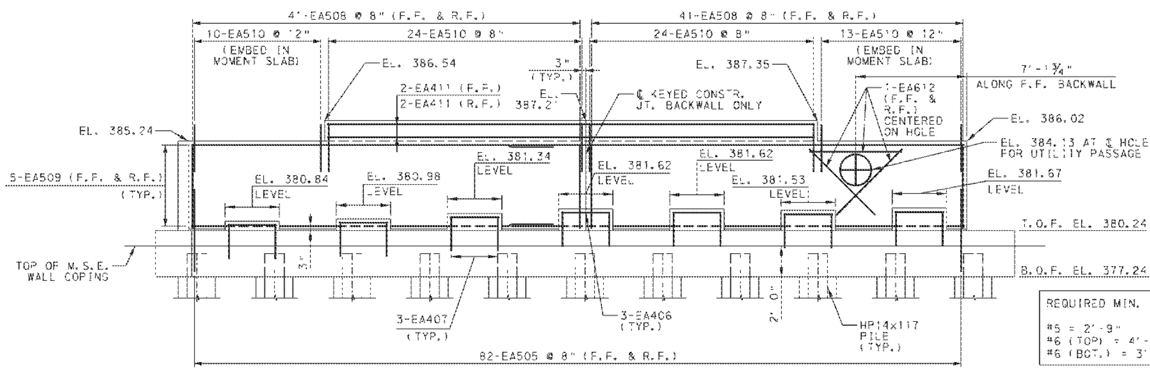
L-435

DES: PPN | DWG: DGS | CKD: PPN



PLAN

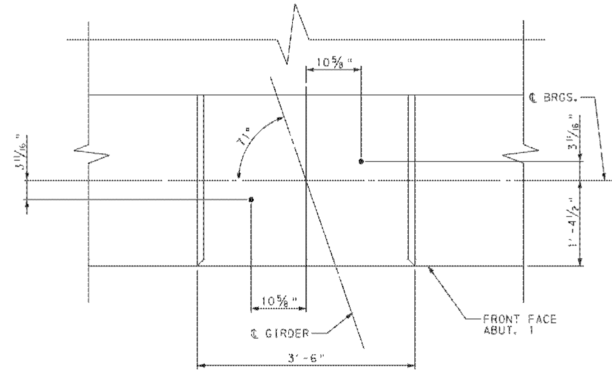
2 0 2 4 FEET



REQUIRED MIN. LAP:
#5 = 2'-9"
#6 (TOP) = 4'-3"
#6 (BOT.) = 3'-3"

ELEVATION

2 0 2 4 FEET



ANCHOR BOLT PLAN

6 0 6 12 INCHES

NOTES

1. BEARING AREA AND SETTING OF ANCHOR BOLTS TO CONFORM TO SECTION 1001.3(k)9 AND 1001.3(f) OF PUB. 408.
2. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.
3. SEE WATER LINE PLANS FOR ABUTMENT PENETRATION WALL SLEEVE.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 1 - PLAN AND ELEVATION

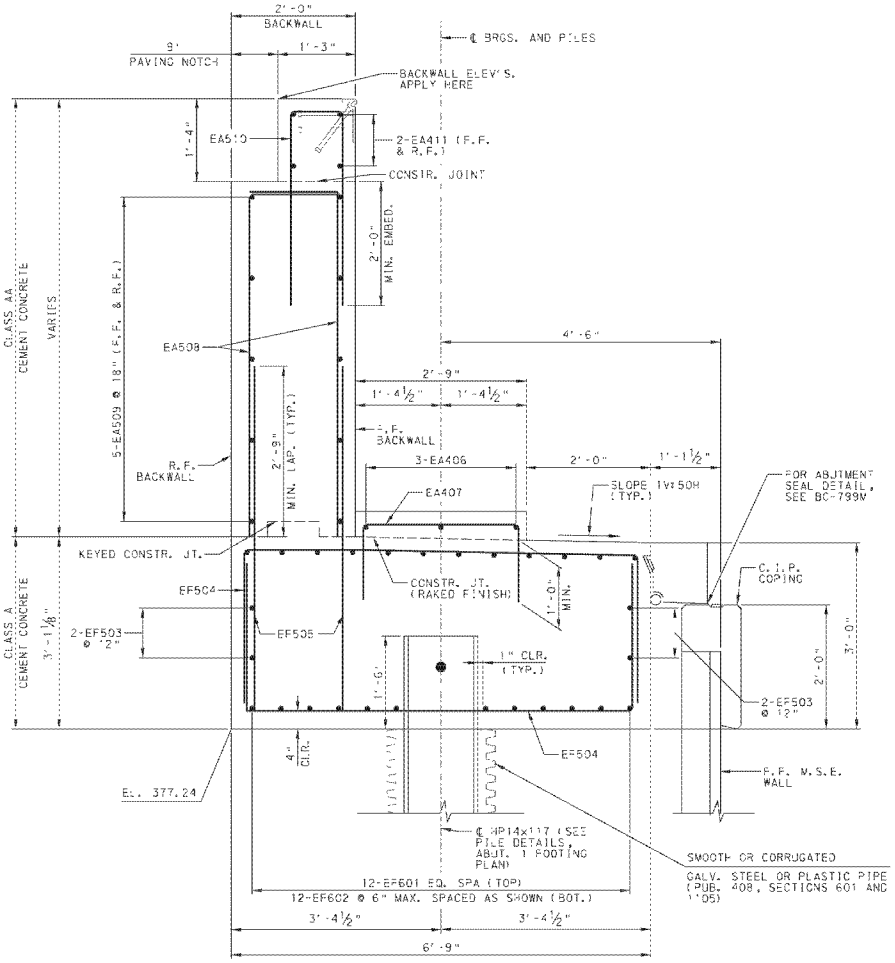
PAUL PETER NASADOS, JR. PROFESSIONAL ENGINEER

RECOMMENDED 10/20/2025

SHEET 12 OF 63

L-435

DES: PPN | DWG: DGS | CKD: PPN



TYPICAL ABUTMENT SECTION

6 0 6 12 INCHES

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. #: 10280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 1 - TYPICAL SECTION

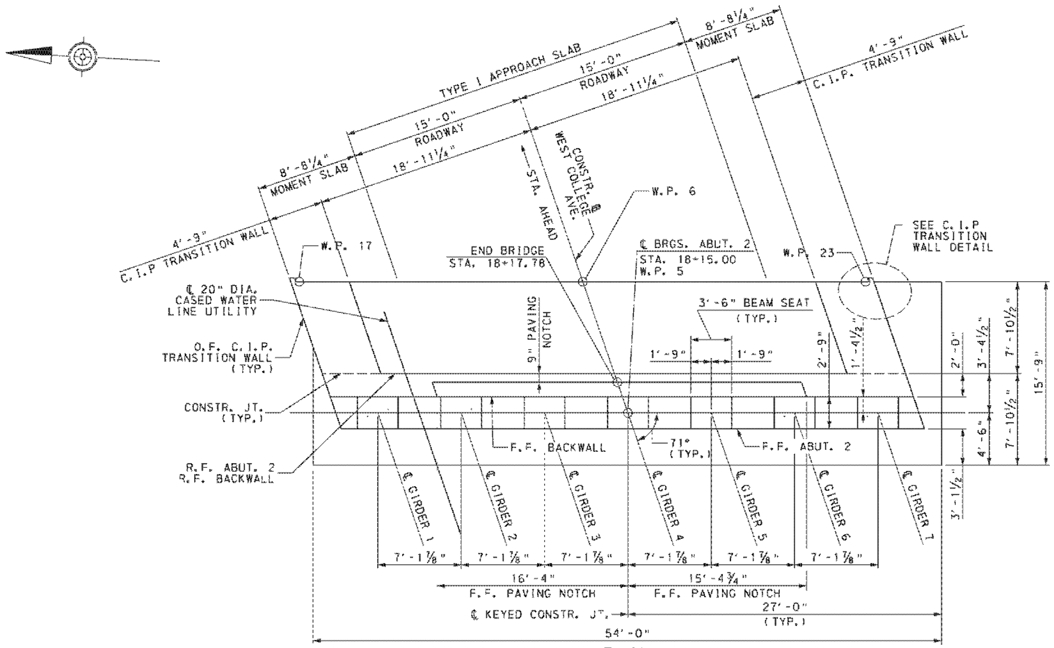
PAUL PETER MASADOS, JR. ENGINEER

RECOMMENDED 10/20/2025

SHEET 13 OF 63

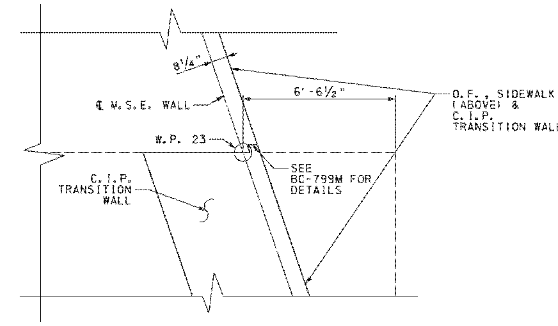
L-435

DES: PPN | DWG: DGS | CKD: PPN



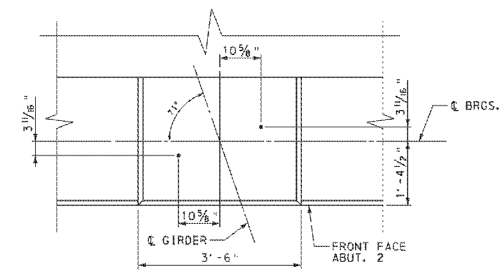
PLAN

2 0 2 4 6 FEET



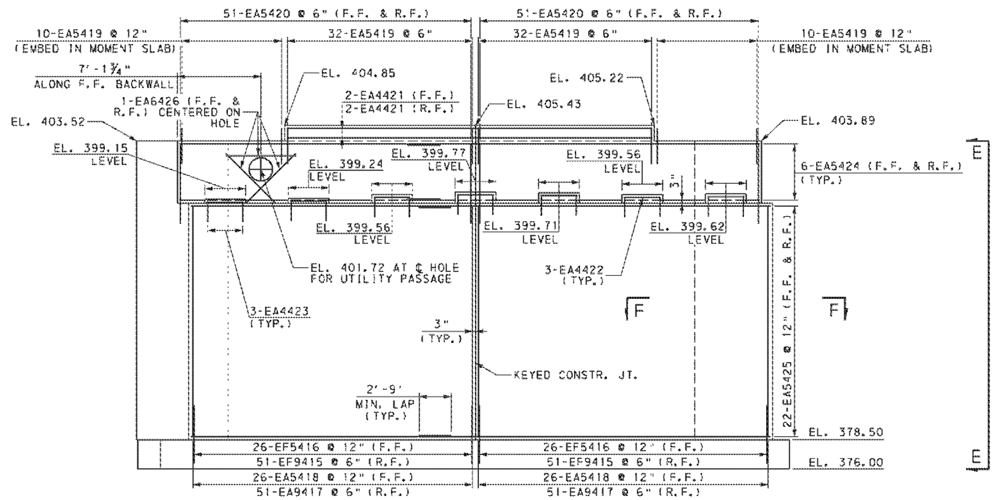
C.I.P. TRANSITION WALL DETAIL

1 0 1 2 3 FEET



ANCHOR BOLT PLAN

12 0 12 INCHES



ELEVATION

2 0 2 4 6 FEET

NOTES

1. BEARING AREA AND SETTING OF ANCHOR BOLTS TO CONFORM TO SECTION 1001.3(k)9 AND 1001.3(f) OF PUB. 408.
2. FOR ANCHOR BOLT DETAILS, SEE SHEET 34
3. FOR TYPICAL ABUTMENT 2 SECTION, SEE SHEET 16.
4. FOR VIEW E-E AND SECTION F-F, SEE SHEET 16.
5. SEE WATER LINE PLANS FOR ABUTMENT PENETRATION WALL SLEEVE.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

ABUTMENT 2 - PLAN AND ELEVATION

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056653

RECOMMENDED 10/20/2025

SHEET 14 OF 63

L-435

DES: PPN | DWG: DGS | CKD: PPN

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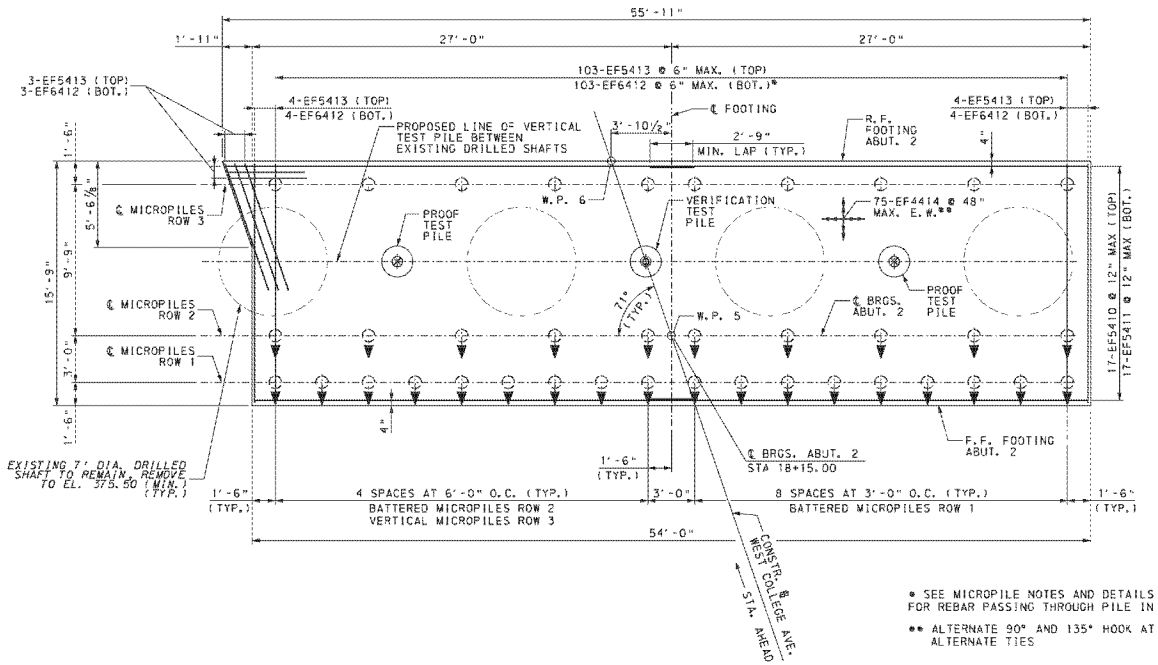

* SEE MICROPILE NOTES AND DETAILS, SHEET 6, FOR REBAR PASSING THROUGH PILE IN FOOTING.

** ALTERNATE 90° AND 135° HOOK AT TOP IN ALTERNATE TIES

FOOTING PLAN

2 0 2 4 FEET

LEGEND

○ DENOTES VERTICAL PILE

○ DENOTES PILE BATTERED 3:12 IN DIRECTION OF ARROW

PILE AXIAL CAPACITY

LOCATION	LIMIT STATE	LOAD CASE	STAGE	A	B	B/A
				FACTORED AXIAL LOAD (KIP)	FACTORED AXIAL RESISTANCE (KIP)	PERFORMANCE RATIO
ABUT. 2	STR-V	MXVMNH	FINAL W/ APP. SLAB	186.65	245.00	1.313
ABUT. 2	STR-III	MXVMNH	FINAL W/O APP. SLAB	176.72	245.00	1.386

MXVMNH DENOTES: MAX. VERTICAL, MIN. HORIZONTAL LOADING

PILE LATERAL CAPACITY

LOCATION	LIMIT STATE	LOAD CASE	STAGE	A	B	B/A
				FACTORED AXIAL LOAD (KIP)	FACTORED AXIAL RESISTANCE (KIP)	PERFORMANCE RATIO
ABUT. 2	STR-III	MAX.	FINAL W/ APP. SLAB	24.87	27.91	1.195
ABUT. 2	STR-I	MAX.	FINAL W/O APP. SLAB	28.75	27.91	1.033

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 2 - FOOTING PLAN

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER PAUL PETER MASADO, JR. PE 254953

RECOMMENDED 10/20/2025

SHEET 15 OF 63

L-435

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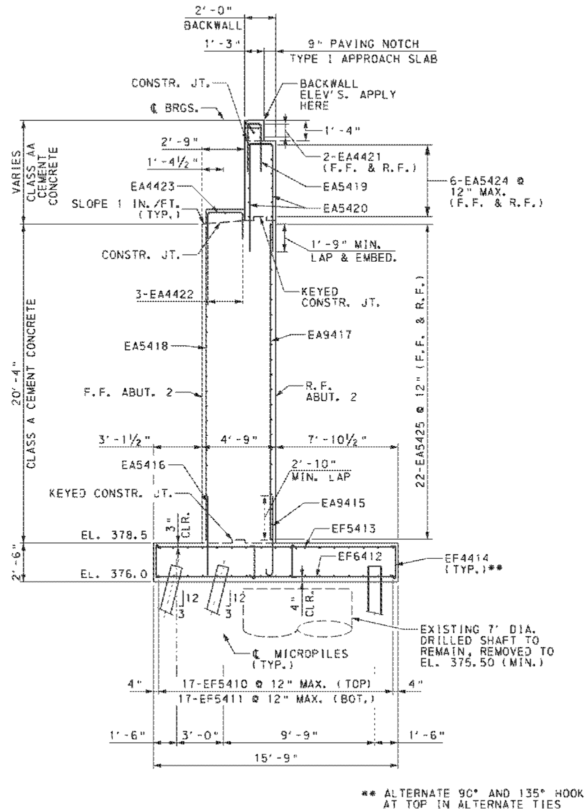
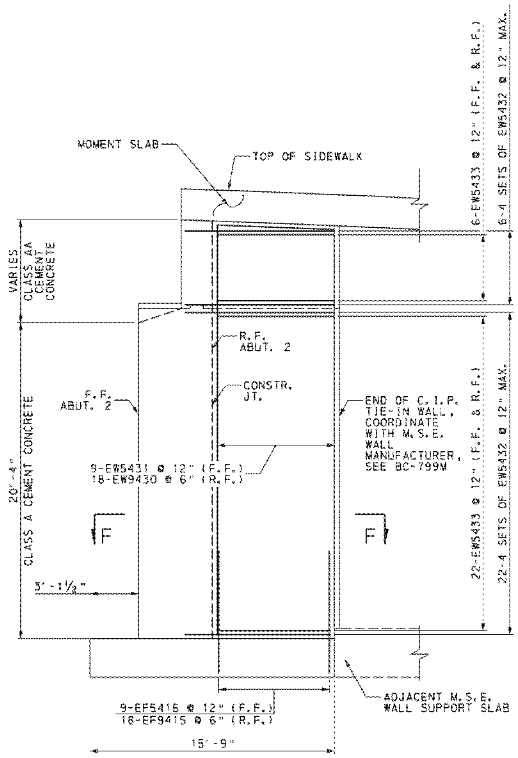


TYPICAL ABUTMENT SECTION

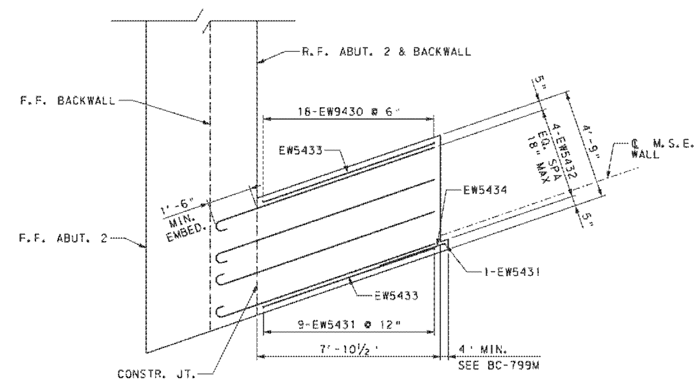
2 0 2 4 FEET



VIEW E-E
TYPICAL TRANSITION WALL

2 0 4 8 FEET

NOTE: VIEW ALONG WING D SHOWN, WING C SIMILAR



SECTION F-F
TRANSITION WALL DETAILS

1 0 1 2 3 FEET

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

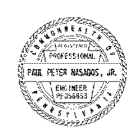
REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 2 - TYPICAL SECTION



RECOMMENDED 10/20/2025

SHEET 16 OF 63

L-435

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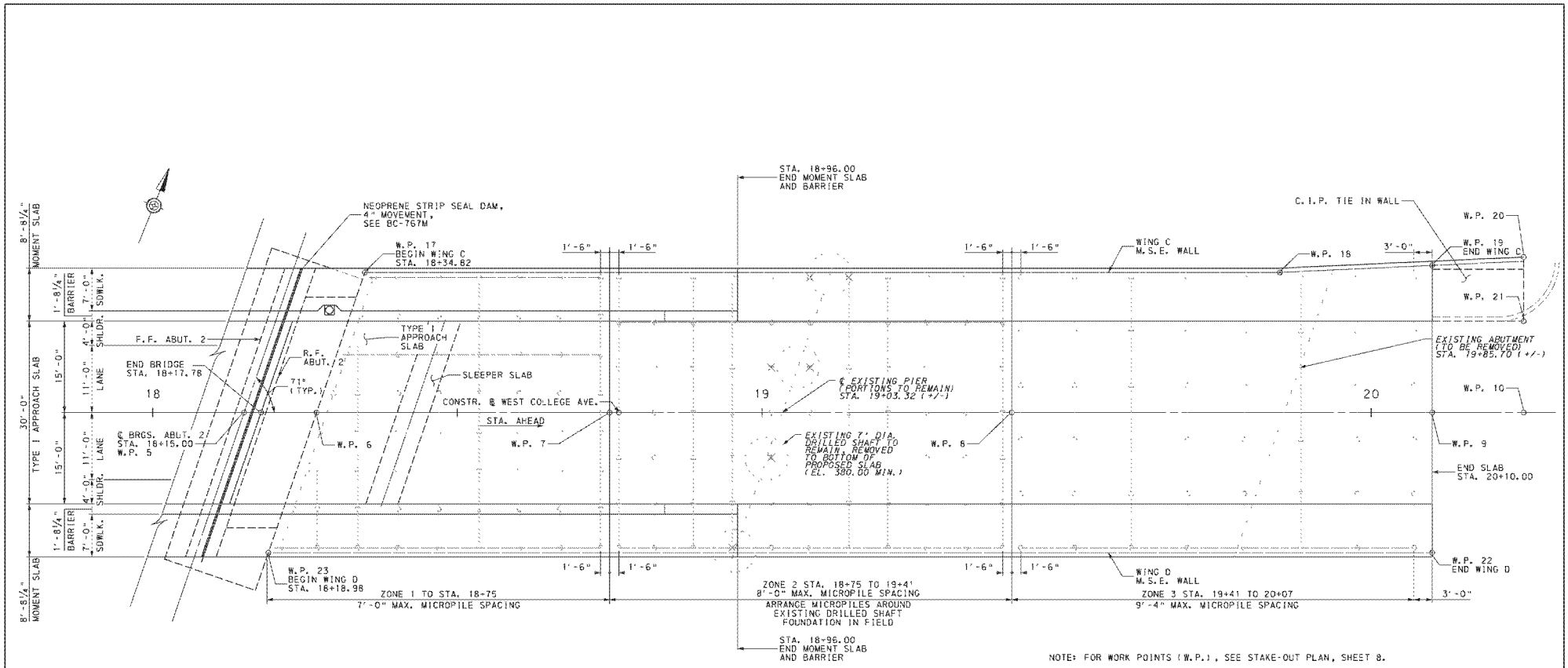

NOTE: FOR WORK POINTS (W.P.), SEE STAKE-OUT PLAN, SHEET 8.

ABUTMENT 2 M.S.E. WALL PLAN

MICROPILE LAYOUT

2 0 4 8 FEET

MICROPILE NOTES:

1. 9⅝" VERTICAL MICROPILES ARE TO BE INSTALLED ACCORDING TO THE ABOVE GRID SYSTEM, AT A MINIMUM.

2. MICROPILES DENOTED WITH A X ARE LOCATIONS THAT INTERSECT EXISTING SUBSTRUCTURES THAT REMAIN. DO NOT INSTALL MICROPILES AT THESE LOCATIONS. ALL EXISTING REMAINING SUBSTRUCTURE LOCATIONS ARE TO BE VERIFIED IN THE FIELD BEFORE INSTALLATION OF THE MICROPILES.

3. PERFORM ONE (1) VERIFICATION TEST PER ZONE AND PROOF TEST A MINIMUM OF 5% PER ZONE.

TOTAL PILES IN ZONE 1: 63 (1 VERIFICATION TEST, MIN. 4 PROOF TEST PILES)
TOTAL PILES IN ZONE 2: 71 (1 VERIFICATION TEST, MIN. 4 PROOF TEST PILES)
TOTAL PILES IN ZONE 3: 48 (1 VERIFICATION TEST, MIN. 3 PROOF TEST PILES)

PILE AXIAL CAPACITY

LOCATION	LIMIT STATE	LOAD CASE	STAGE	A FACTORED AXIAL LOAD (KIP)	B FACTORED AXIAL RESISTANCE (KIP)	B/A PERFORMANCE RATIO
ABUT. 2 M.S.E. WALL SLAB	STR-1	MAX.	ZONE. 1	258.00	260.00	1.01
	STR-1	MAX.	ZONE. 2	251.00	260.00	1.04
	STR-1	MAX.	ZONE. 3	253.00	260.00	1.03

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
ABUTMENT 2 M.S.E. WALL PLAN

COMMONWEALTH OF PENNSYLVANIA
PROFESSIONAL
ENGINEER
PAUL PETER NASADOS, JR.
PE036855

RECOMMENDED 10/20/2025

SHEET 17 OF 63

L-435

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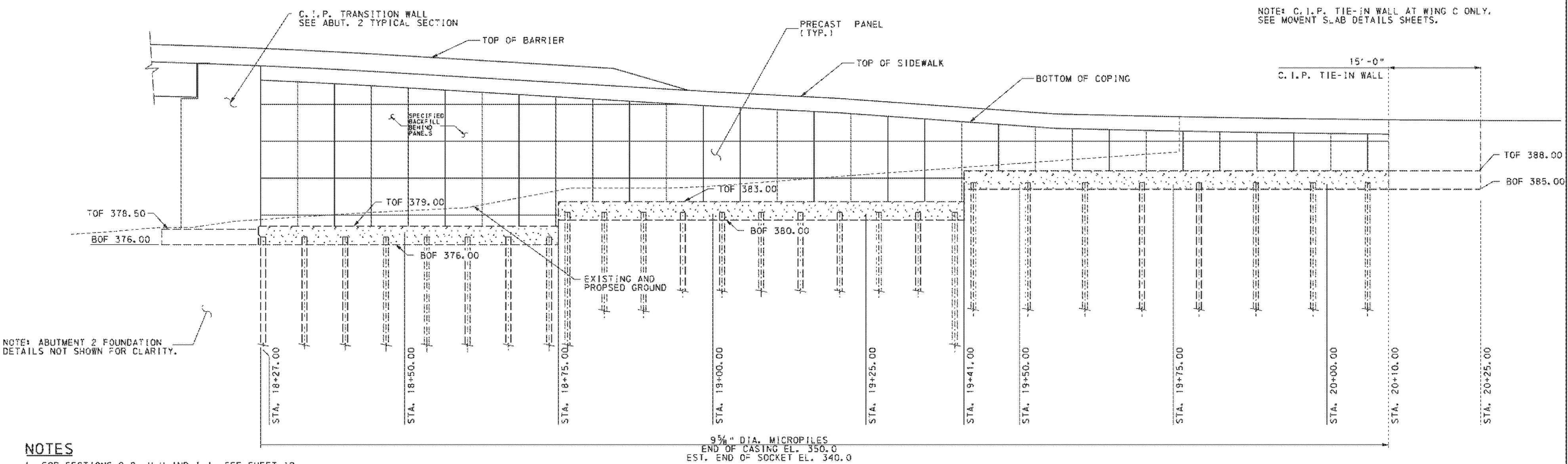


ELEVATION ALONG BASELINE

BEGIN WING C AT STA. 18+34.82
BEGIN WING D AT STA. 18+18.98

2 0 4 8 FEET

NOTES

1. FOR SECTIONS G-G, H-H AND I-I, SEE SHEET 19.

NOTE:

THE SLABS IN ADJACENT ZONES SHALL BE SEPARATE.

WHEN POURING SLABS BETWEEN ADJACENT ZONES, ENSURE THERE ARE NO VOIDS IN THE SUB BASE AND REMOVE ALL PREVIOUS FORM WORK BEFORE POURING THE NEXT SLAB.

THE C.I.P TIE-IN WALL SHALL BE SEPARATED FROM THE ADJACENT MSE WALL SLAB BY USING A BOND BREAKER.

TOP OF MSE WALL ELEVATIONS
ABUTMENT 2

STATION	WING C TS ELEV.	WING C TW ELEV.	WING D TS ELEV.	WING D TW ELEV.	REMARKS
18+18.98	405.00	403.87	———	———	BEGIN MSE WING D
18+20.00	404.97	403.84	———	———	
18+30.00	404.55	403.42	———	———	
18+34.82	———	———	404.31	403.18	BEGIN MSE WING C
18+40.00	404.06	402.93	404.06	402.93	
18+50.00	403.48	402.35	403.48	402.35	
18+60.00	402.88	401.75	402.88	401.75	
18+70.00	402.28	401.15	402.28	401.15	
18+80.00	401.68	400.55	401.68	400.55	
18+90.00	401.08	399.95	401.08	399.95	
19+00.00	400.49	399.36	400.49	399.36	
19+10.00	399.95	398.82	399.95	398.82	
19+20.00	399.44	398.31	399.44	398.31	
19+30.00	398.97	397.84	398.97	397.84	
19+40.00	398.55	397.42	398.55	397.42	
19+50.00	398.16	397.03	398.16	397.03	
19+60.00	397.81	396.68	397.81	396.68	
19+70.00	397.49	396.36	397.49	396.36	
19+80.00	397.22	396.09	397.22	396.09	
19+90.00	396.99	395.86	396.99	395.86	
20+00.00	396.80	395.67	396.80	395.67	
20+10.00	396.64	395.51	396.64	395.51	END MSE WING C & D

NOTE:
ELEVATIONS GIVEN ALONG CENTERLINE MSE WALL
TS: TOP OF SIDEWALK/COPING
TW: TOP OF WALL PANEL

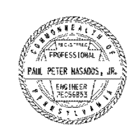
Description	By	Chk'd.	Recm'd.	Date
REVISIONS				

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

ABUTMENT 2 M.S.E. WALL ELEVATION



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SHEET 18 OF 63

L-435

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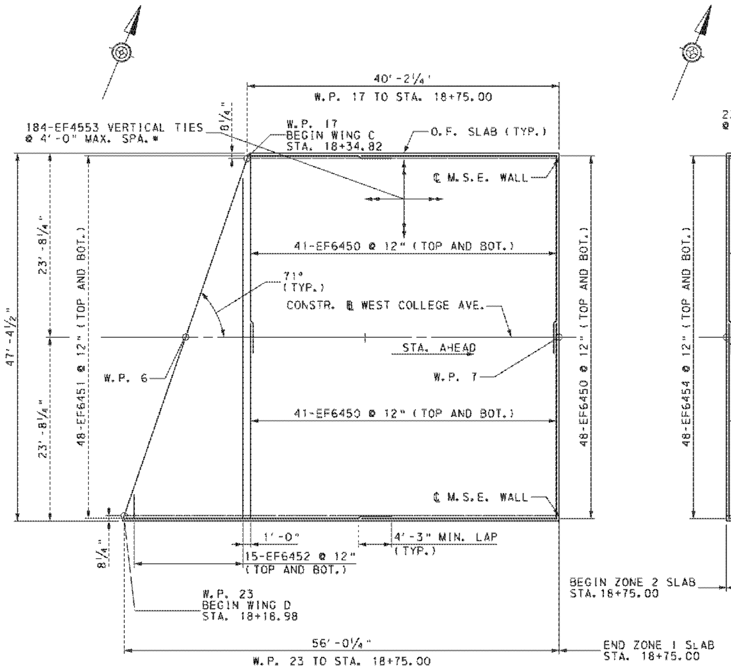
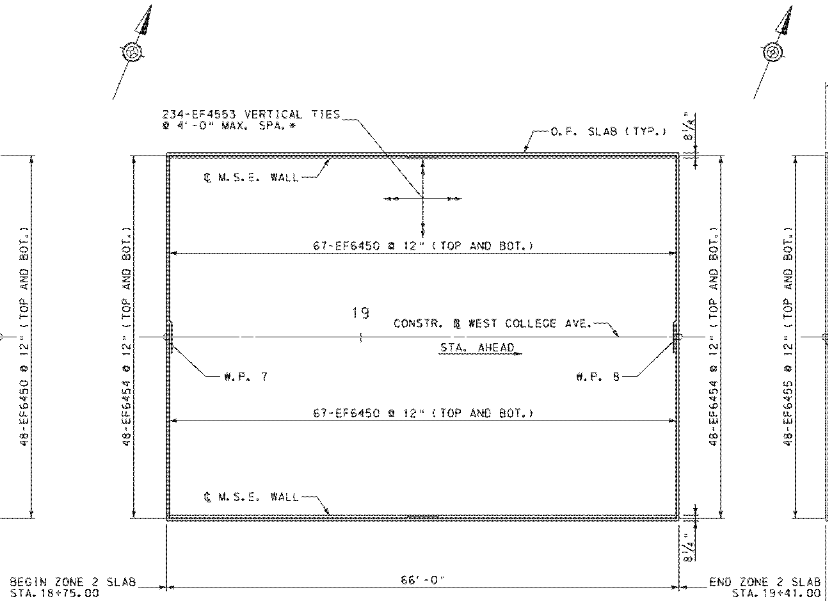


ZONE 1 M.S.E. WALL SLAB PLAN

2 0 4 8 FEET

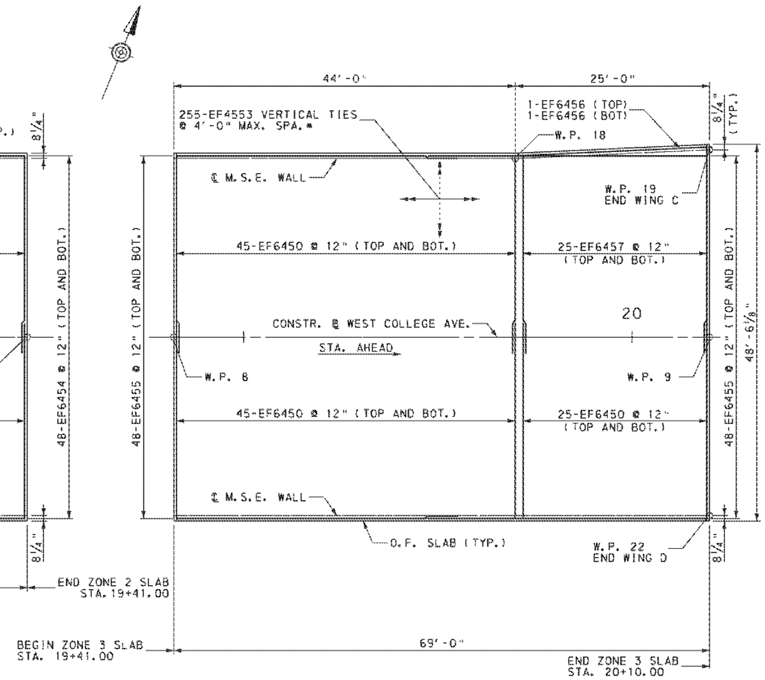
NOTE: PILES NOT SHOWN FOR CLARITY.



ZONE 2 M.S.E. WALL SLAB PLAN

2 0 4 8 FEET

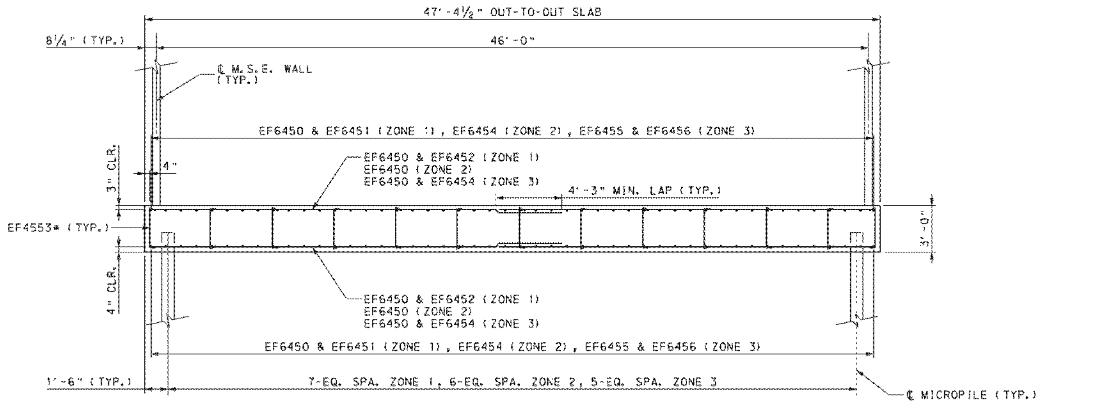
NOTE: PILES NOT SHOWN FOR CLARITY.



ZONE 3 M.S.E. WALL SLAB PLAN

2 0 4 8 FEET

NOTE: PILES NOT SHOWN FOR CLARITY.



TYPICAL M.S.E. WALL SLAB SECTION

2 0 2 4 FEET

* ALTERNATE 90° & 135° HOOKS AT TOP IN ALTERNATE TIES.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

ABUT. 2 M.S.E. WALL SLAB DET.

COMMONWEALTH OF PENNSYLVANIA PROFESSIONAL ENGINEER PAUL PETER NASADOS, JR.

RECOMMENDED 10/20/2025

SHEET 19 OF 63

L-435

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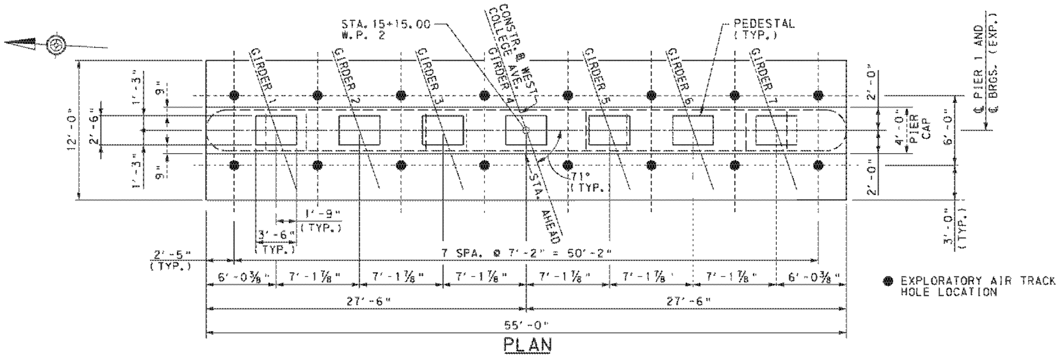
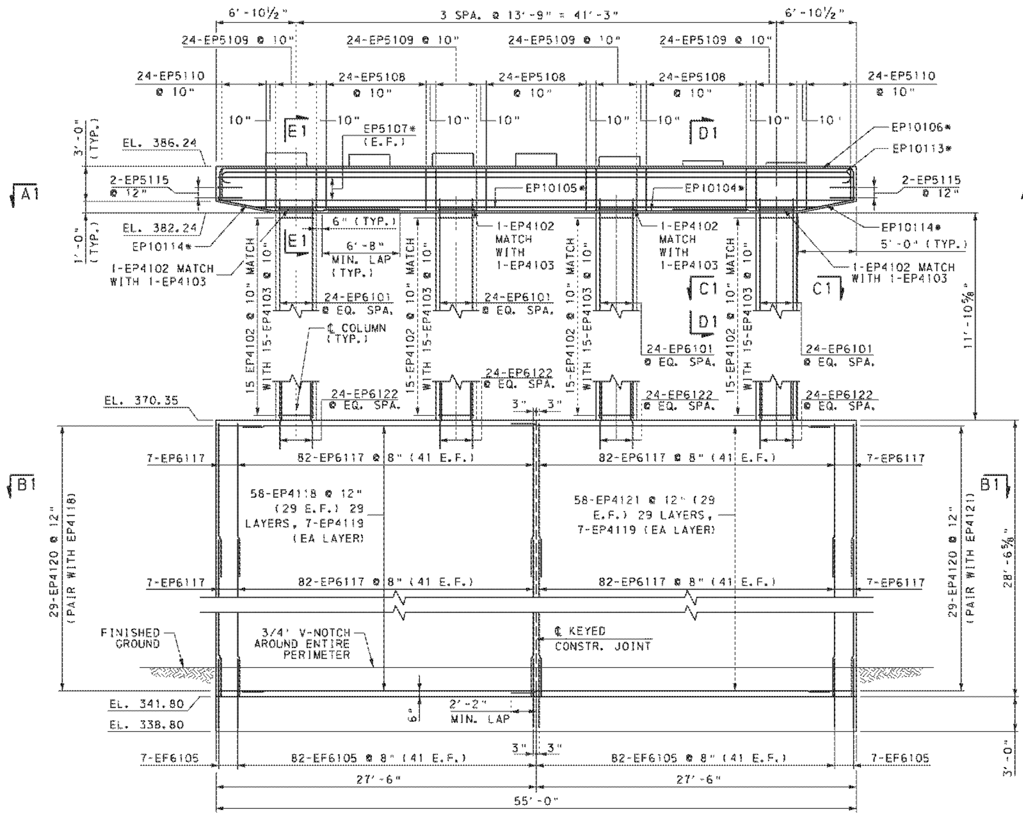
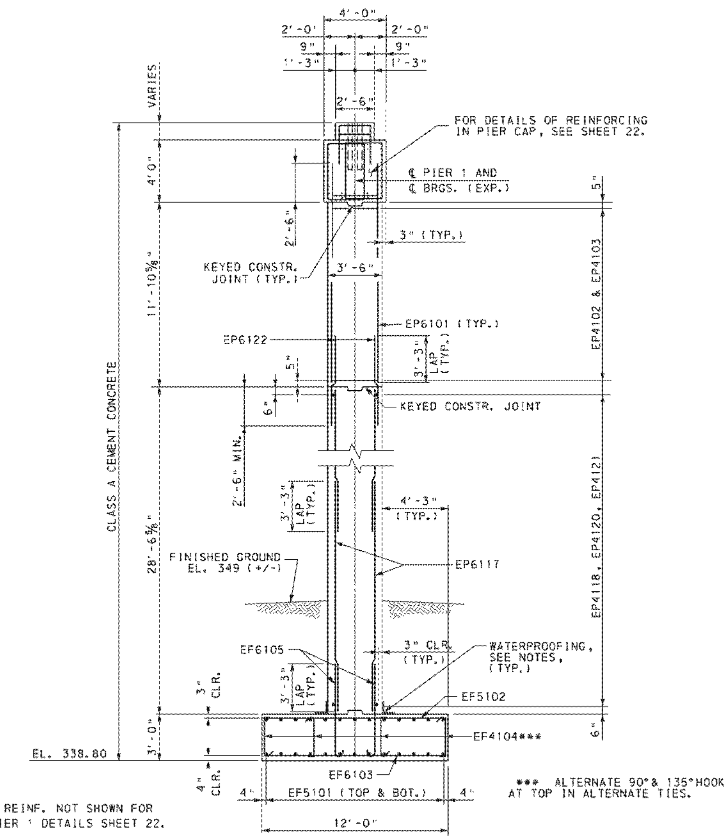


PLAN



ELEVATION



TYPICAL SECTION

NOTE: PEDESTAL REINF. NOT SHOWN FOR CLARITY, SEE PIER 1 DETAILS SHEET 22.

*FOR SPACING AND QUANTITY OF REBAR, SEE PIER 1 DETAIL. SEE SHEET 21.

NOTES:

1. FOR FOOTING PLAN, SEE SHEET 21.
2. FOR SECTIONS A1-A1 AND B1-B1, SEE SHEET 21.
3. FOR SECTIONS C1-C1, D1-D1 AND E1-E1, SEE SHEET 22.
4. FOR BEAM SEAT ELEVATIONS, SEE SHEET 22.
5. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.
6. SEE SPECIAL PROVISIONS FOR SPRAY APPLIED WATERPROOFING MEMBRANE SYSTEM ON OTHER SURFACES-INSTALLED PER BC-788MODIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
PIER 1

PAUL PETER NASADOS, JR. PROFESSIONAL ENGINEER

RECOMMENDED 10/20/2025

SHEET 20 OF 63

L-435

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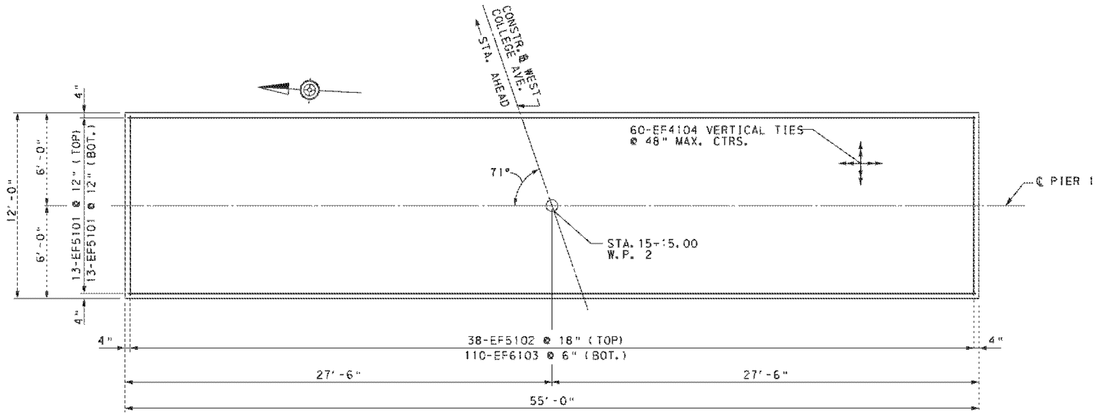
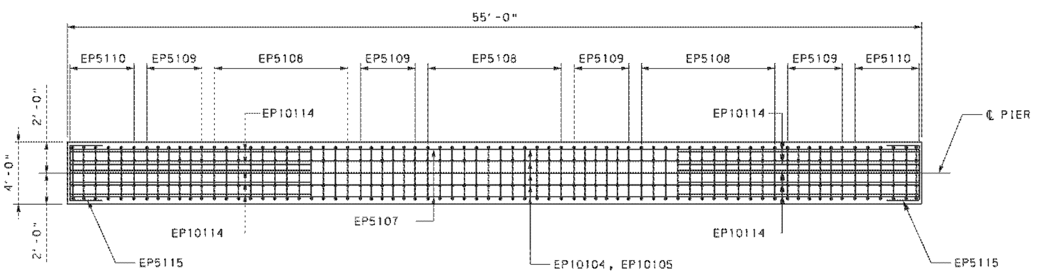


FOOTING PLAN

2 0 2 4 FEET

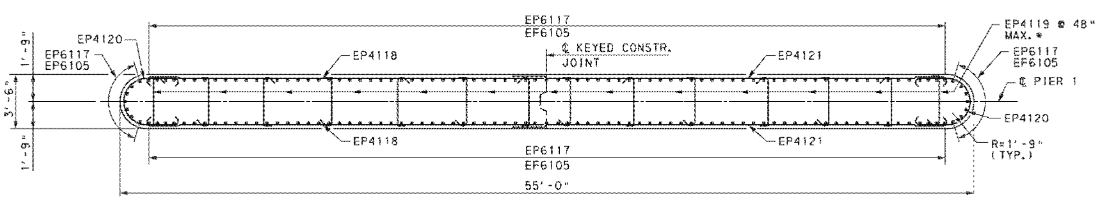


SECTION A1-A1

2 0 2 4 FEET

NOTE: COLUMN REINFORCEMENT NOT SHOWN FOR CLARITY.

REQ'D. LAP LENGTHS
#4 BARS = 2'-2"
#5 BARS = 2'-9"
#6 BARS = 3'-3"



* ALTERNATE 90° & 135° HOOK AT F.F. AND R.F. IN ALTERNATE TIES.

SECTION B1-B1

2 0 2 4 FEET

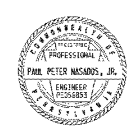
BEARING CAPACITY				
LOCATION	LIMIT STATE	LOAD CASE	MAXIMUM FACTORED BEARING PRESSURE (TSF)	FACTORED BEARING RESISTANCE (TSF)
PIER 1	STR-V	3	4.90	12.81

NOTES:

1. FOR PIER 1 PLAN, ELEVATION AND SECTION, SEE SHEET 20.
2. FOR LOCATION OF SECTIONS A1-A1 AND B1-B1, SEE SHEET 20.
3. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK

WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

PIER 1 DETAILS-1

RECOMMENDED 10/20/2025

SHEET 21 OF 63

L-435

DES: TAA | DWG: DSF | CKD: TAA

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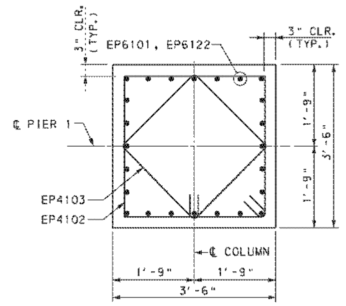
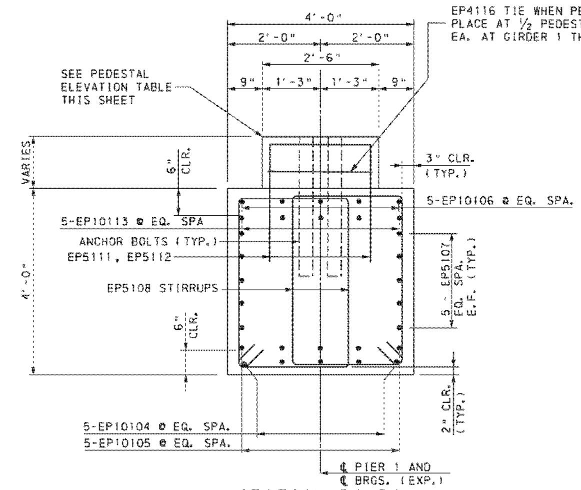


SECTION C1-C1
TYPICAL COLUMN SECTION

12 0 12 INCHES

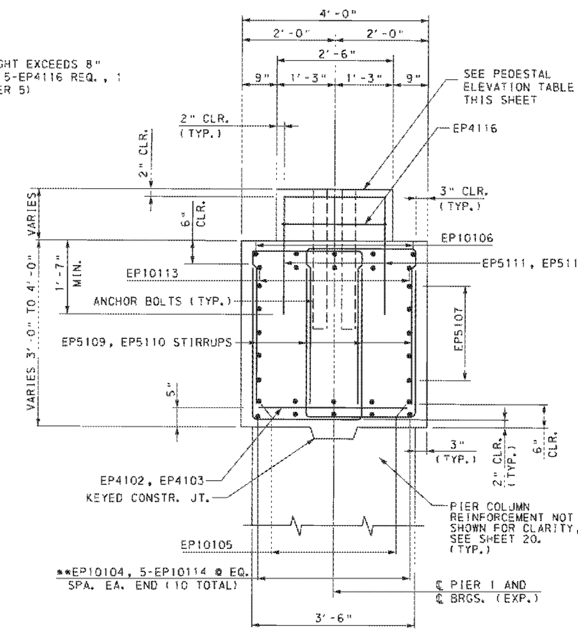


SECTION D1-D1

12 0 12 INCHES

NOTE:

SECTION D1-D1 IS APPLICABLE BETWEEN THE COLUMNS FOR THE PIER CAP



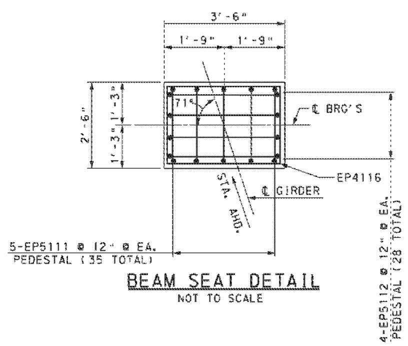
SECTION E1-E1

**LAP EP10114 WITH EP10104. SEE ELEVATION ON SHEET 20.

12 0 12 INCHES

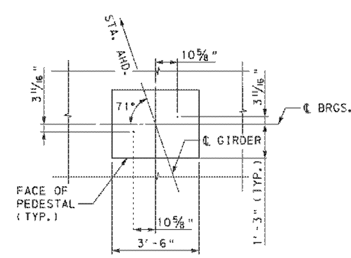
NOTE:

SECTION E1-E1 IS APPLICABLE OVER THE COLUMNS AND ON THE CANTILEVER PORTIONS OF THE PIER CAP



BEAM SEAT DETAIL

NOT TO SCALE



ANCHOR BOLT PLAN

NOT TO SCALE

NOTES:

1. BEARING AREA AND SETTING OF ANCHOR BOLTS TO CONFORM TO SECTION 1001.3(k)9 AND 1001.3(f) OF PUB. 408.
2. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

PIER 1 PEDESTAL ELEVATION TABLE	
GIRDER	TOP OF PEDESTAL ELEVATION
1	387.40
2	387.26
3	387.36
4	387.35
5	387.08
6	386.71
7	386.57

NOTES:

1. FOR PIER 1 PLAN, ELEVATION AND SECTION, SEE SHEET 20.
2. FOR LOCATION OF SECTIONS C1-C1, D1-D1 AND E1-E1, SEE SHEET 20.

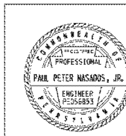
Mark	Description	By	Chk'd.	Recm'd.	Date

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
PIER 1 DETAILS-2



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SHEET 22 OF 63

L-435

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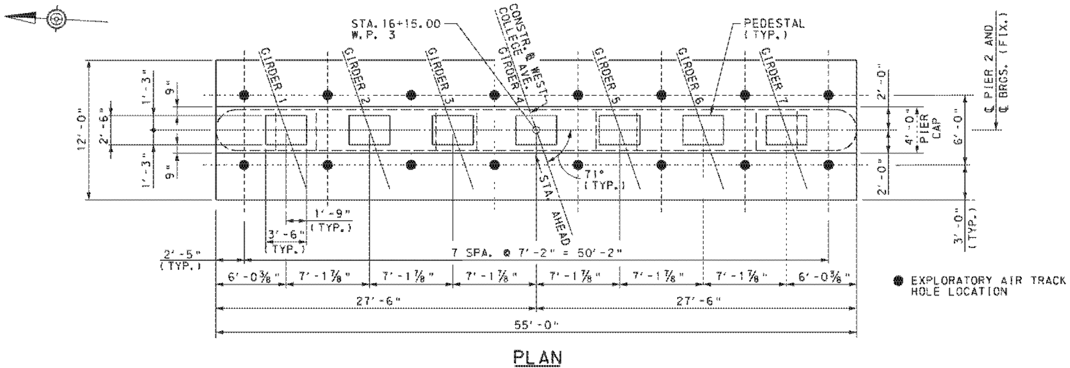
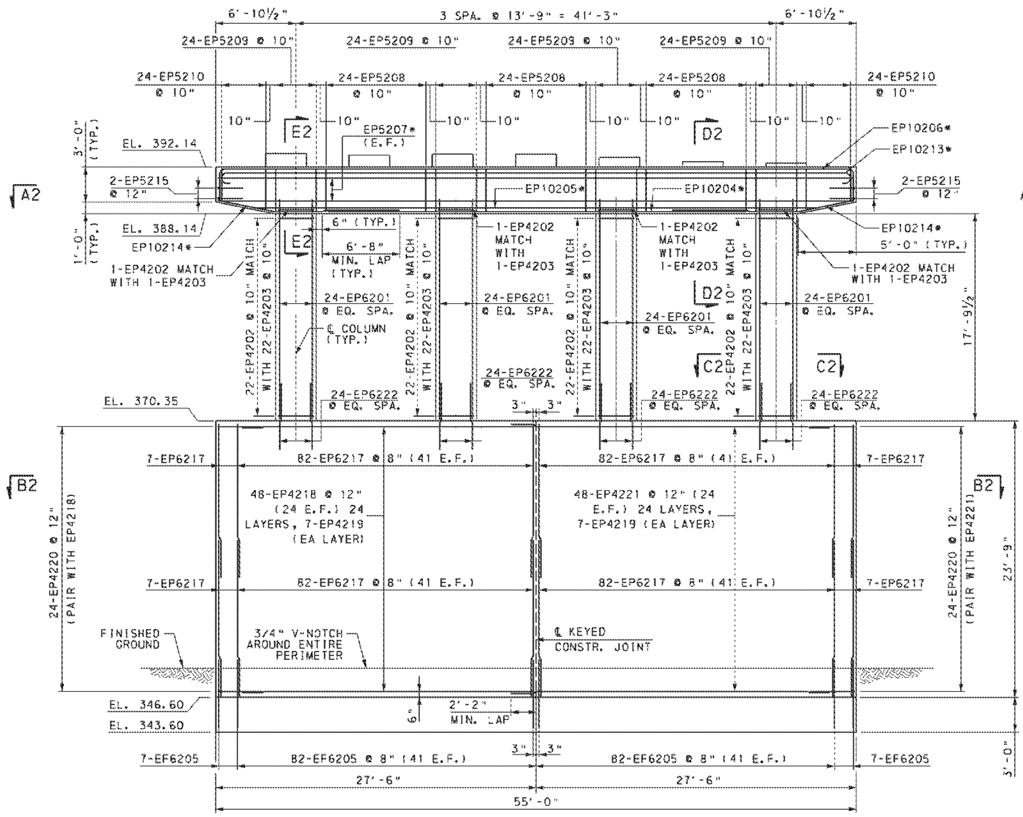


PLAN

2 0 2 4 6 FEET

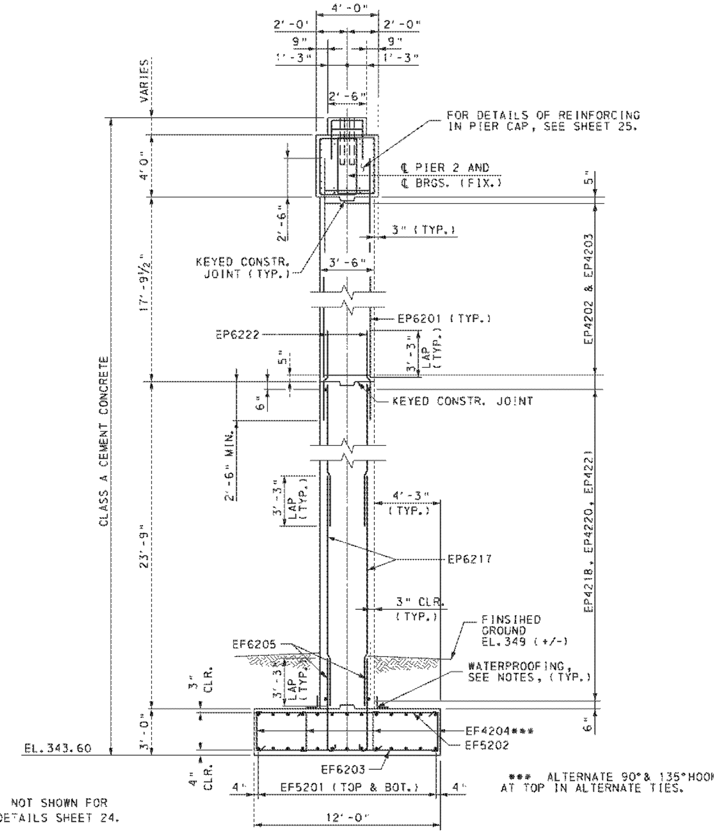


ELEVATION

2 0 2 4 6 FEET

NOTE: PEDESTAL REINF. NOT SHOWN FOR CLARITY, SEE PIER 2 DETAILS SHEET 24.

*FOR SPACING AND QUANTITY OF REBAR, SEE PIER 2 DETAIL. SEE SHEET 25.



TYPICAL SECTION

2 0 2 4 FEET

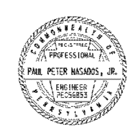
Mark	Description	By	Chk'd.	Recm'd.	Date

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

NOTES:

1. FOR FOOTING PLAN, SEE SHEET 24.
2. FOR SECTIONS A2-A2 AND B2-B2, SEE SHEET 24.
3. FOR SECTIONS C2-C2, D2-D2 AND E2-E2, SEE SHEET 25.
4. FOR BEAM SEAT ELEVATIONS, SEE SHEET 25.
5. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.
6. SEE SPECIAL PROVISIONS FOR SPRAY APPLIED WATERPROOFING MEMBRANE SYSTEM ON CONCRETE SURFACES-INSTALLED PER BC-788MODIFIED.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK

WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

PIER 2

RECOMMENDED 10/20/2025

SHEET 23 OF 63

L-435

DES: TAA | DWG: DSF | CKD: TAA

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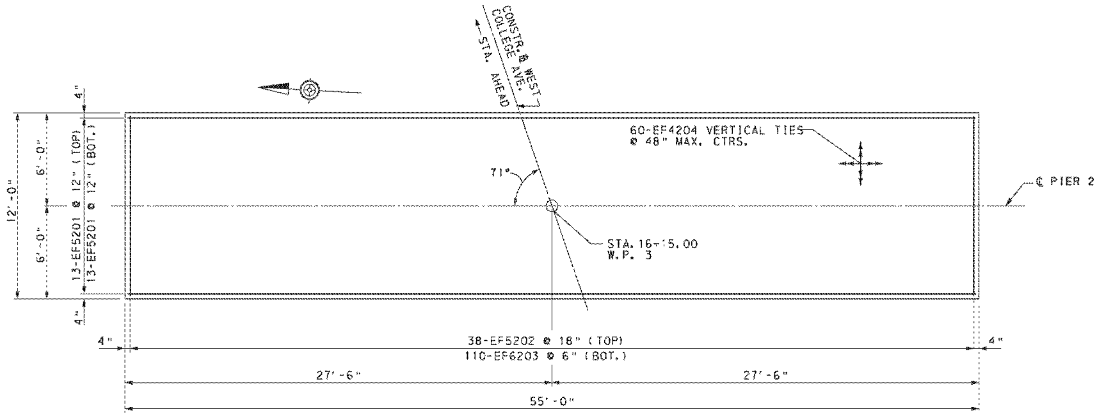
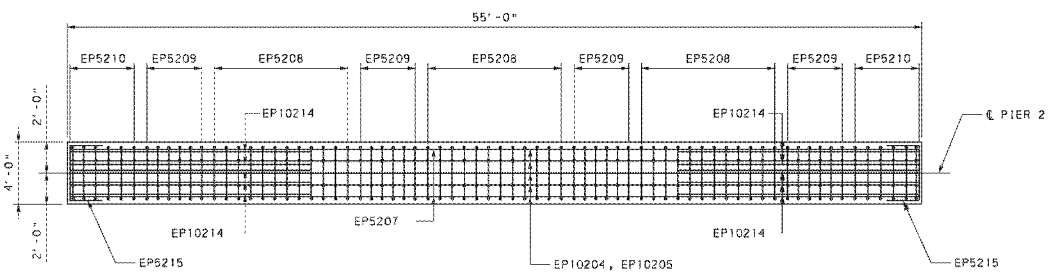


FOOTING PLAN

2 0 2 4 FEET

BEARING CAPACITY				
LOCATION	LIMIT STATE	LOAD CASE	MAXIMUM FACTORED BEARING PRESSURE (TSF)	FACTORED BEARING RESISTANCE (TSF)
PIER 2	STR-V	9	7.11	10.67

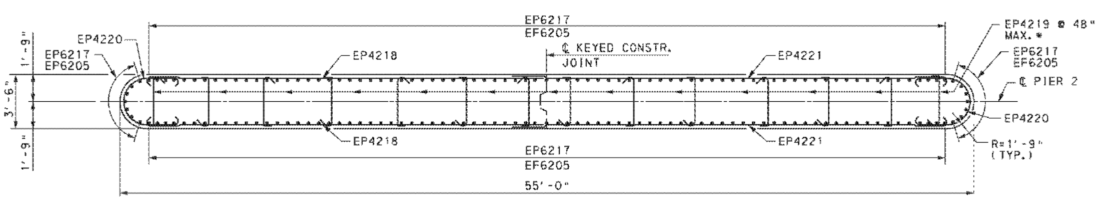


SECTION A2-A2

2 0 2 4 FEET

NOTE: COLUMN REINFORCEMENT NOT SHOWN FOR CLARITY.

REQ'D. LAP LENGTHS
#4 BARS = 2'-2"
#5 BARS = 2'-9"
#6 BARS = 3'-3"



* ALTERNATE 90° & 135° HOOK AT F.F. AND R.F. IN ALTERNATE TIES.

SECTION B2-B2

2 0 2 4 FEET

NOTES:

1. FOR PIER 2 PLAN, ELEVATION AND SECTION, SEE SHEET 23.
2. FOR LOCATION OF SECTIONS A2-A2 AND B2-B2, SEE SHEET 23.
3. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
PIER 2 DETAILS-1

PAUL PETER NASADOS, JR. PROFESSIONAL ENGINEER

RECOMMENDED 10/20/2025

SHEET 24 OF 63

L-435

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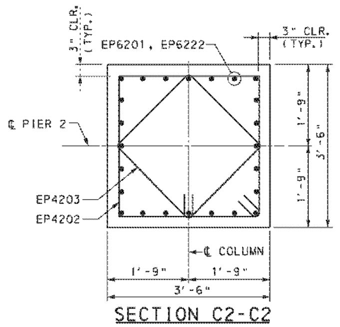
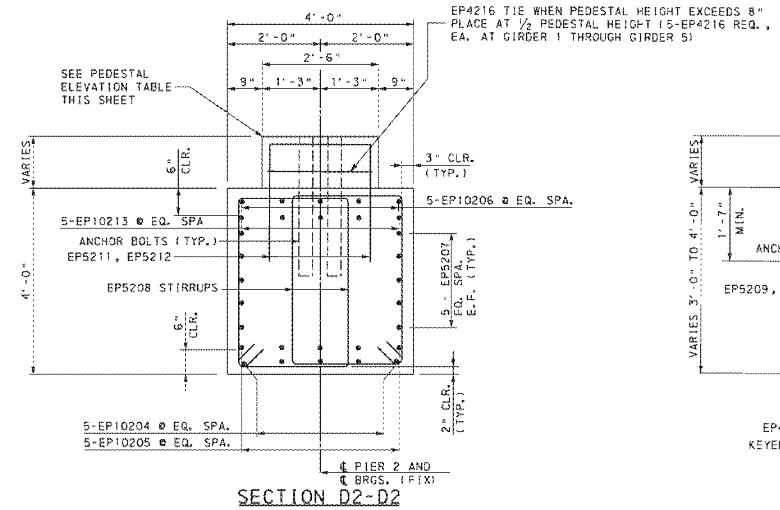


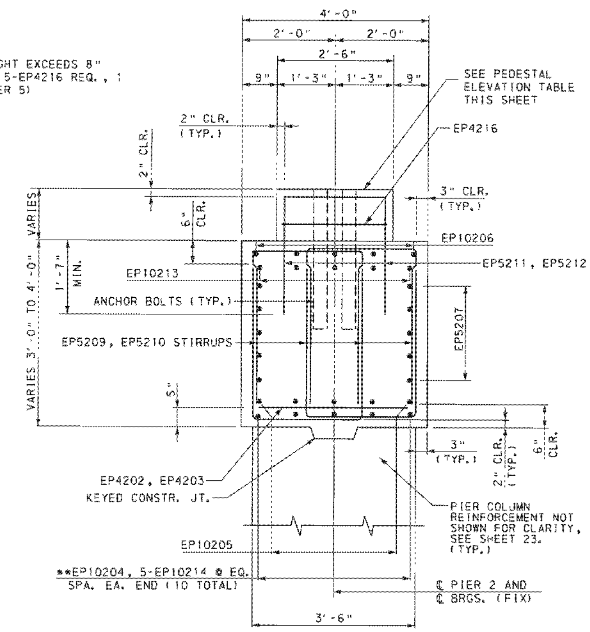
SECTION C2-C2
TYPICAL COLUMN SECTION



SECTION D2-D2

NOTE:

SECTION D2-D2 IS APPLICABLE BETWEEN THE COLUMNS FOR THE PIER CAP

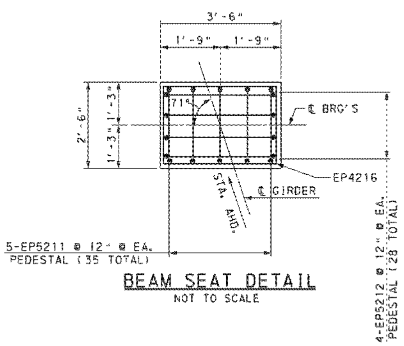


SECTION E2-E2

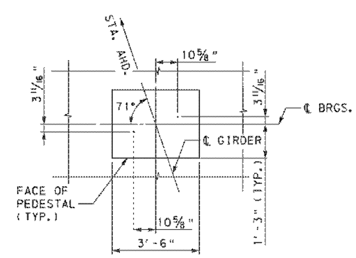
**LAP EP10214 WITH EP10204. SEE ELEVATION ON SHEET 23.

NOTE:

SECTION E2-E2 IS APPLICABLE OVER THE COLUMNS AND ON THE CANTILEVER PORTIONS OF THE PIER CAP



BEAM SEAT DETAIL
NOT TO SCALE



ANCHOR BOLT PLAN
NOT TO SCALE

NOTES:

1. BEARING AREA AND SETTING OF ANCHOR BOLTS TO CONFORM TO SECTION 1001.3(k)9 AND 1001.3(f) OF PUB. 408.
2. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

PIER 2 PEDESTAL ELEVATION TABLE	
GIRDER	TOP OF PEDESTAL ELEVATION
1	393.30
2	393.16
3	393.26
4	393.25
5	392.98
6	392.61
7	392.47

NOTES:

1. FOR PIER 2 PLAN, ELEVATION AND SECTION, SEE SHEET 23.
2. FOR LOCATION OF SECTIONS C2-C2, D2-D2 AND E2-E2, SEE SHEET 23.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
PIER 2 DETAILS-2

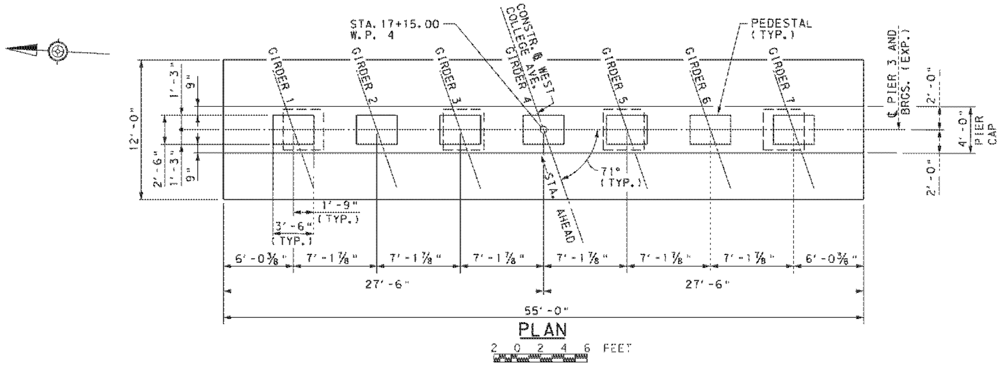
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

SHEET 25 OF 63

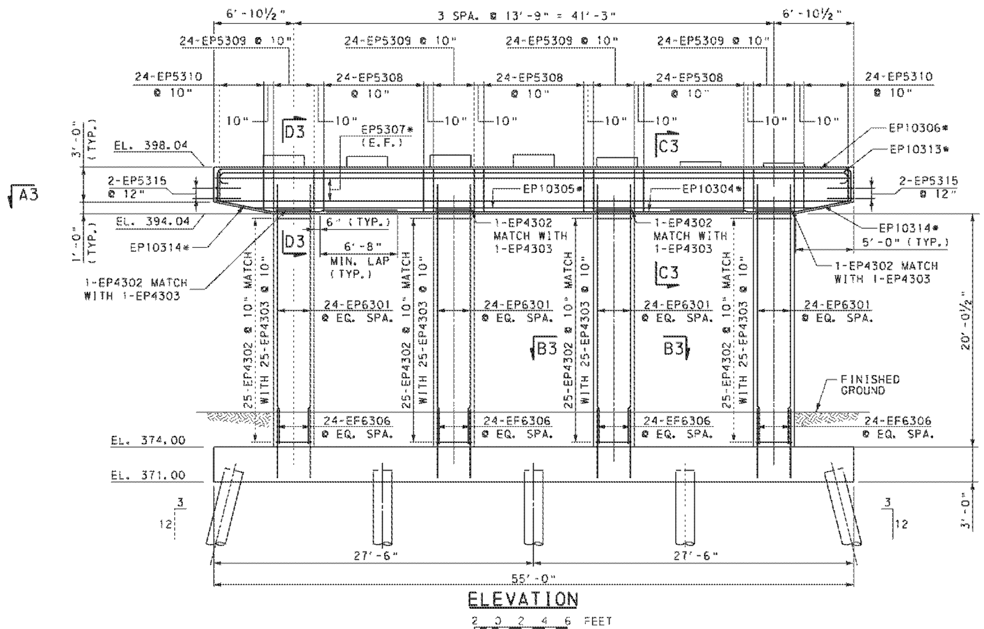
L-435

DES: TAA DWG: DSF CKD: TAA



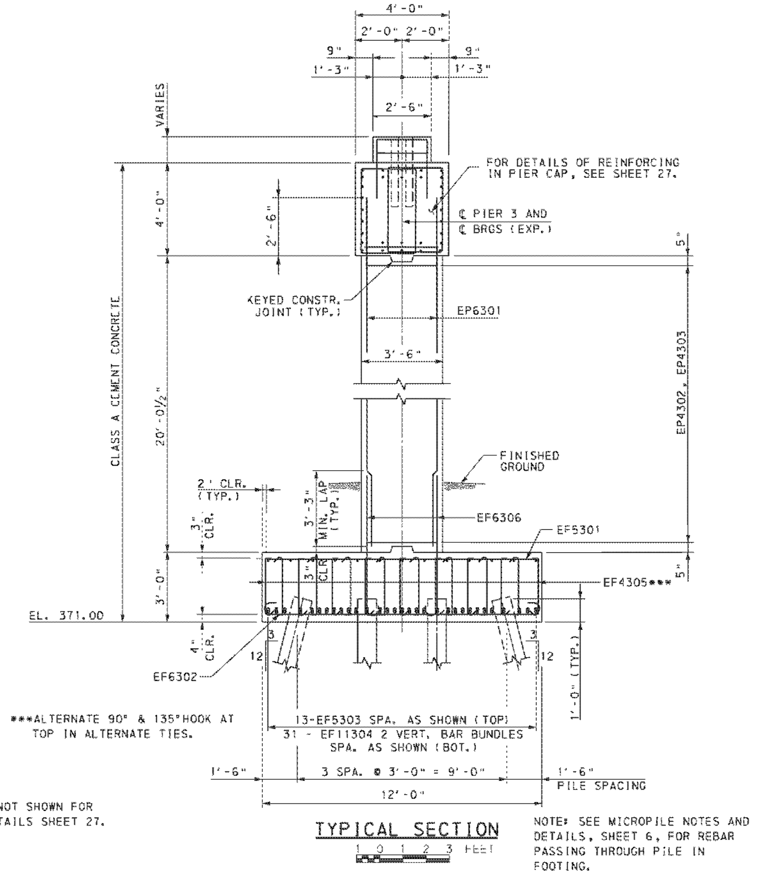
PLAN

2 0 2 4 6 FEET



ELEVATION

2 0 2 4 6 FEET



***ALTERNATE 90° & 135° HOOK AT TOP IN ALTERNATE TIES.

TYPICAL SECTION

1 0 1 2 3 FEET

NOTE: PEDESTAL REINF. NOT SHOWN FOR CLARITY, SEE PIER 3 DETAILS SHEET 27.

NOTE: SEE MICROPILE NOTES AND DETAILS, SHEET 6, FOR REBAR PASSING THROUGH PILE IN FOOTING.

*FOR SPACING AND QUANTITY OF REBAR, SEE PIER 3 DETAIL. SEE SHEET 27.

NOTES:

1. FOR FOOTING PLAN, SEE SHEET 27.
2. FOR SECTIONS A3-A3, B3-B3, C3-C3 AND D3-D3, SEE SHEET 27.
3. FOR BEAM SEAT ELEVATIONS, SEE SHEET 27.
4. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

PILE AXIAL CAPACITY

LOCATION	LIMIT STATE	LOAD CASE	STAGE	A FACTORED AXIAL LOAD (KIP)	B FACTORED AXIAL RESISTANCE (KIP)	B/A PERFORMANCE RATIO
PIER 3	STR-I	2	-	214.1	245.0	1.14

PILE LATERAL CAPACITY**

LOCATION	LIMIT STATE	LOAD CASE	STAGE	A FACTORED AXIAL LOAD (KIP)	B FACTORED AXIAL RESISTANCE (KIP)	B/A PERFORMANCE RATIO
PIER 3	STR-III	1	-	25.67	59.42	2.32

** LATERAL CAPACITY OF MICROPILES NEGLECTED. BATTERED MICROPILES USED TO PROVIDE LATERAL RESISTANCE.

DES: TAA | DWG: DSF | CKD: TAA

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

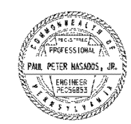
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK

WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

PIER 3



RECOMMENDED 10/20/2025

SHEET 26 OF 63

L-435

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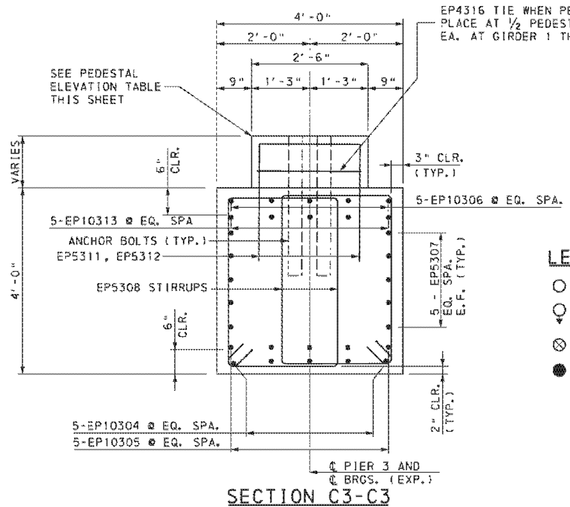


SECTION C3-C3

12 0 12 INCHES

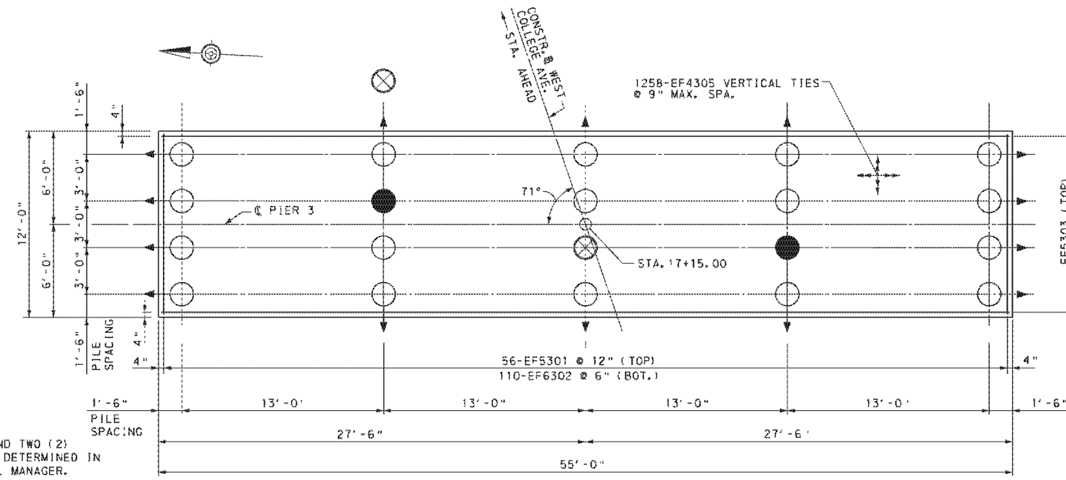
NOTE:
SECTION C3-C3 IS APPLICABLE BETWEEN THE COLUMNS FOR THE PIER CAP

LEGEND

- ○ DENOTES VERTICAL PILE
- DENOTES PILE BATTERED 3:12 IN DIRECTION OF ARROW
- ⊗ DENOTES VERIFICATION LOAD TEST PILE
- ● DENOTES PROOF LOAD TEST PILE

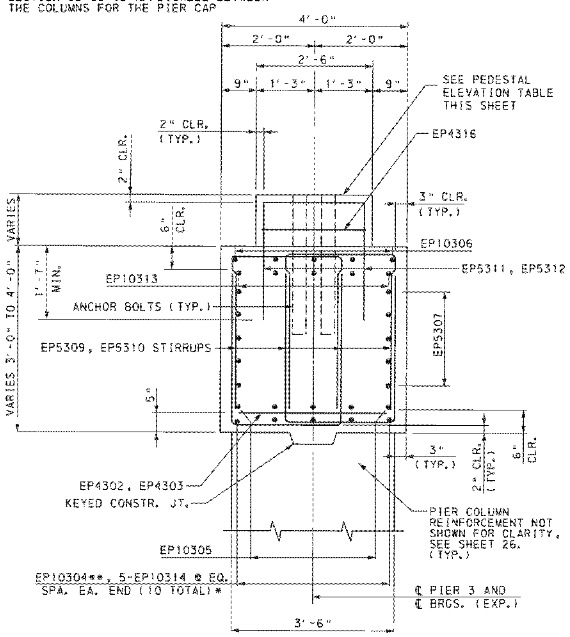
ALL PILE CASINGS ARE 9.625" O.D. WITH 0.435" WALL THICKNESS

NOTE:
ONE (1) VERIFICATION LOAD TEST PILE AND TWO (2) PROOF LOAD TEST PILES. LOCATION TO BE DETERMINED IN THE FIELD BY THE DISTRICT GEOTECHNICAL MANAGER.



FOOTING PLAN AND PILE LAYOUT

2 0 2 4 FEET

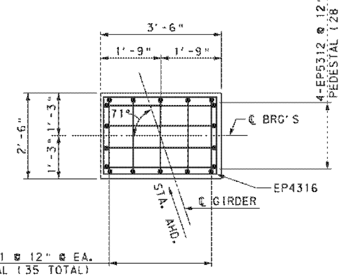


SECTION D3-D3

12 0 12 INCHES

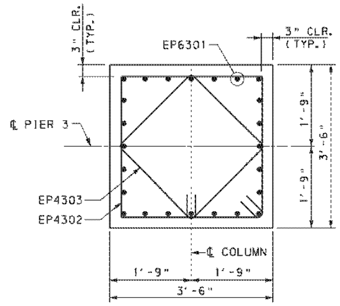
**LAP EP10314 WITH EP10304. SEE ELEVATION ON SHEET 26.

NOTE:
SECTION D3-D3 IS APPLICABLE OVER THE COLUMNS AND ON THE CANTILEVER PORTIONS OF THE PIER CAP



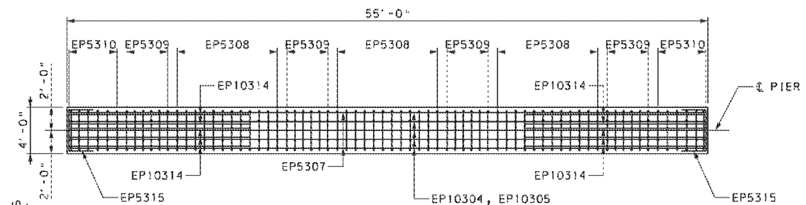
BEAM SEAT DETAIL

NOT TO SCALE



SECTION B3-B3
TYPICAL COLUMN SECTION

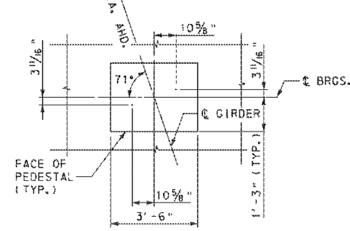
12 0 12 INCHES



SECTION A3-A3

2 0 2 4 6 FEET

NOTE: COLUMN REINFORCEMENT NOT SHOWN FOR CLARITY.



ANCHOR BOLT PLAN

NOT TO SCALE

NOTES:
1. BEARING AREA AND SETTING OF ANCHOR BOLTS TO CONFORM TO SECTION 1001.3(k)9 AND 1001.3(f) OF PUB. 408.
2. FOR ANCHOR BOLT DETAILS, SEE SHEET 34.

NOTES:
1. FOR PIER 3 PLAN, ELEVATION AND SECTION, SEE SHEET 26.
2. FOR LOCATION OF SECTIONS A3-A3, B3-B3, C3-C3 AND D3-D3, SEE SHEET 26.

PIER 3 PEDESTAL ELEVATION TABLE

GIRDER	TOP OF PEDESTAL ELEVATION
1	399.05
2	398.95
3	399.08
4	399.10
5	398.84
6	398.48
7	398.37

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

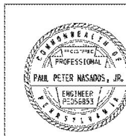
REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

PIER 3 DETAILS



RECOMMENDED 10/20/2025

SHEET 27 OF 63

L-435

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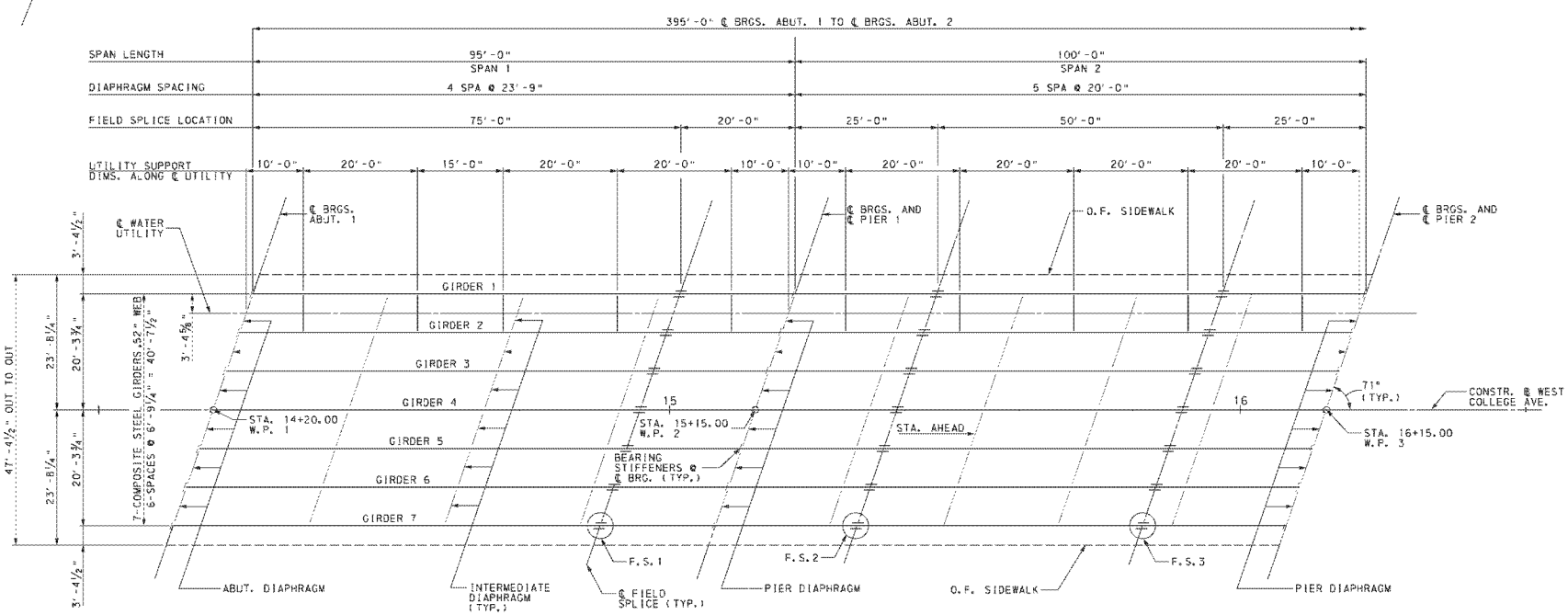

FRAMING PLAN - SPANS 1 & 2

5 0 5 10 FEET

NOTE: FOR GIDER ELEVATION AND ASSOCIATED DETAILS, SEE SHEETS 30-33

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
FRAMING PLAN - SPANS 1 & 2

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. ENGINEER PE-250853

RECOMMENDED 10/20/2025

SHEET 28 OF 63

L-435

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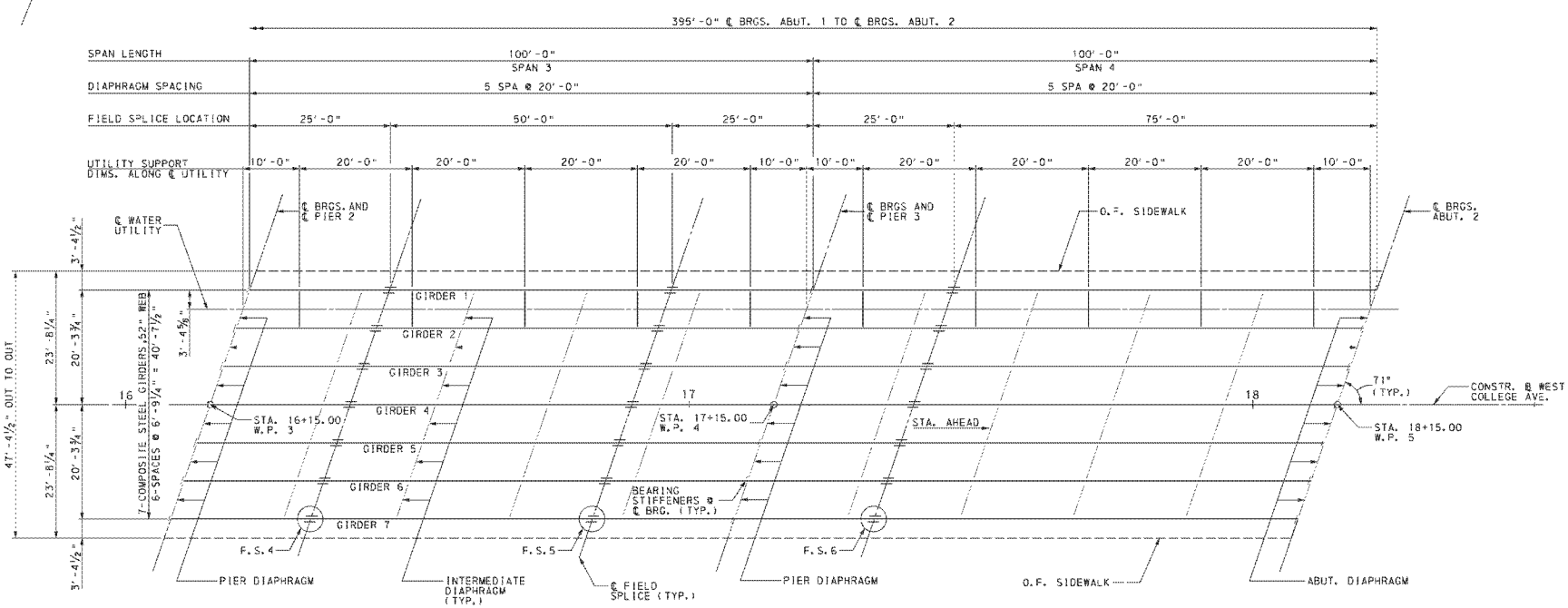

FRAMING PLAN - SPANS 3 & 4

5 0 5 10 FEET

NOTE: FOR GIDER ELEVATION AND ASSOCIATED DETAILS, SEE SHEETS 30-33

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
FRAMING PLAN - SPANS 3 & 4

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. PE-250853

RECOMMENDED 10/20/2025

SHEET 29 OF 63

L-435

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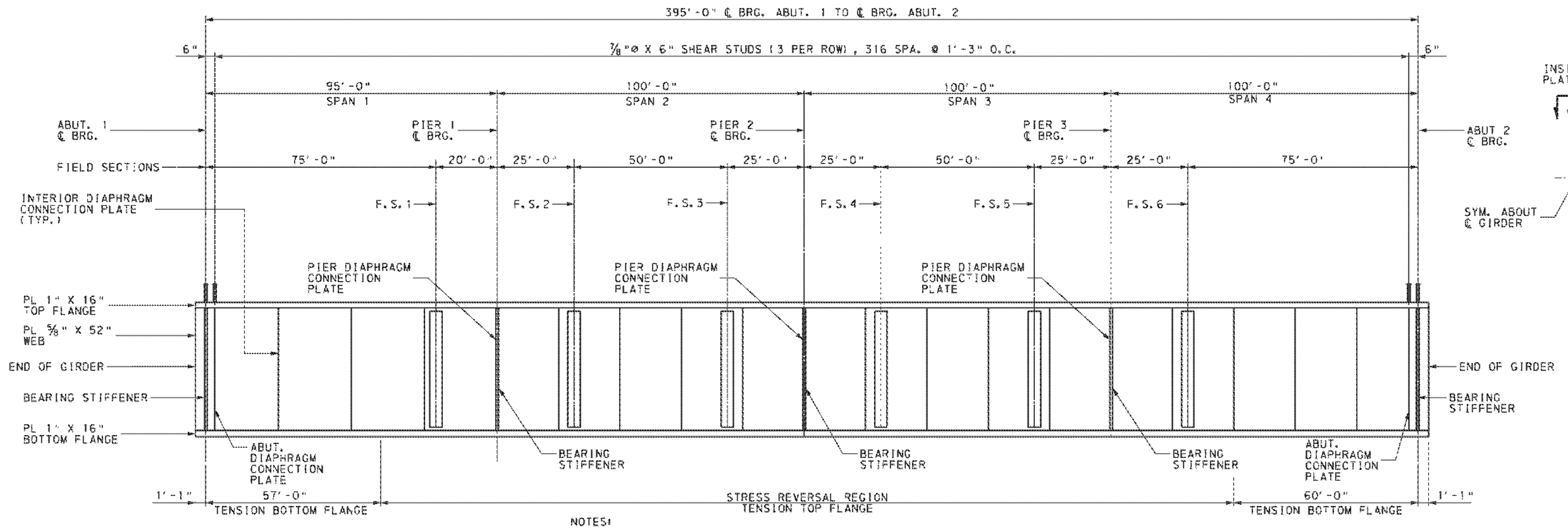


NOTES:

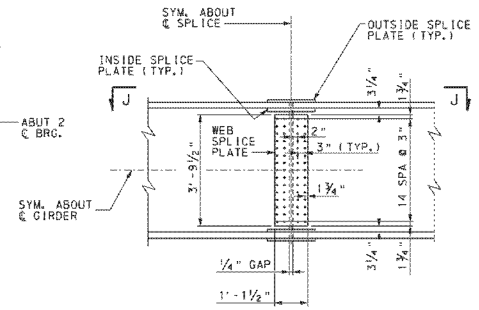
FOR LOCAITON OF CONNECTION PLATES, SEE FRAMING PLAN.

UTILITY SUPPORT CONNECTION PLATES NOT SHOWN ON GIRDER ELEVATION FOR CLARITY.

GIRDER ELEVATION

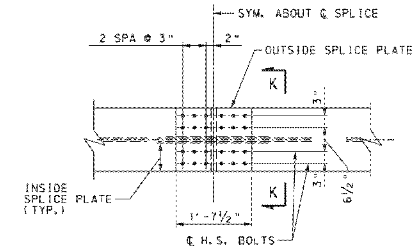
NOT TO SCALE

NOTE: FOR FRAMING PLAN, SEE SHEETS 28-29



WEB SPLICE DETAIL

NOT TO SCALE



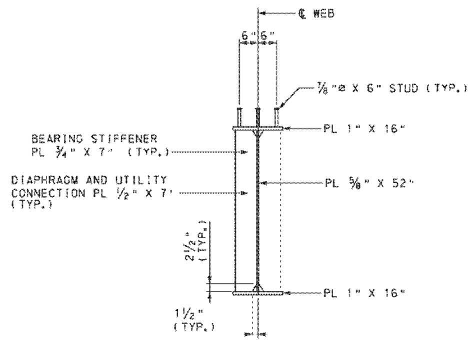
VIEW J-J
FLANGE SPLICE DETAIL

NOT TO SCALE

INSIDE SPLICE PLATE: ⅝" X 0'-7" X 1'-7½"

OUTSIDE SPLICE PLATE: ⅝" X 1'-4" X 1'-7½"

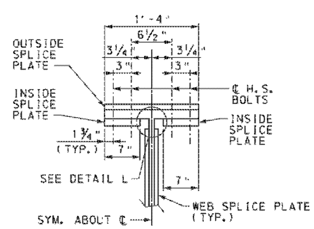
WEB SPLICE PLATE: ⅜" X 1'-1½" X 3'-9½"



GIRDER SECTION

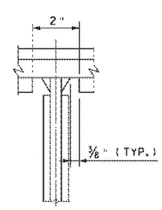
NOT TO SCALE

NOTE:
ADJUST SHEAR STUD SPACING AS REQUIRED TO CLEAR FLANGE TRANSITION ZONES AND FIELD SPLICE PLATES



SECTION K-K

NOT TO SCALE



DETAIL L

NOT TO SCALE

NOTE: FOR ADDITIONAL GIRDER DETAILS AND NOTES NOT SHOWN SEE BC-753M. ALL WELDS SPECIFICED IN BC-753M AND BC-754M SHALL BE 5/16" UNLESS NOTED OTHERWISE

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

GIRDER ELEVATION

PAUL PETER NASADOS, JR. — PROFESSIONAL ENGINEER — COMMONWEALTH OF PENNSYLVANIA

RECOMMENDED 10/20/2025

SHEET 30 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN

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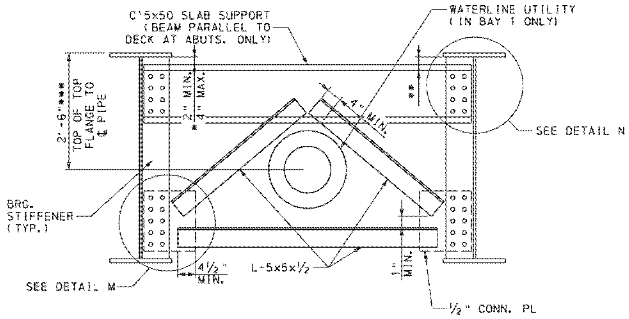
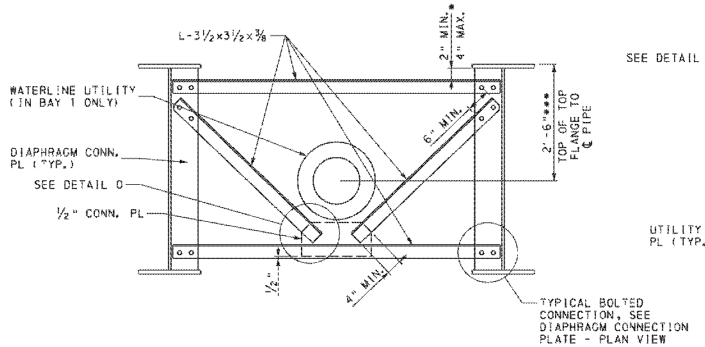


NOTE: DIAPHRAGM DETAILED TO FIT PIPE IN BAY 1, OTHER BAYS SHALL USE SAME CONFIGURATION

ABUT. AND PIER DIAPHRAGM DETAIL

12 0 12 INCHES



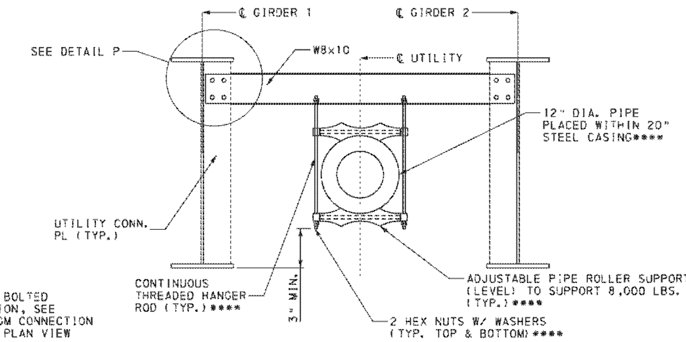
INTERMEDIATE DIAPHRAGM DETAIL

12 0 12 INCHES

* MAY BE EXCEEDED UP TO DECK PAN DEPTH PLUS 1"

** DETAIL SHOULD BE COORDINATED WITH METAL DECK FORMS AND UTILITY CLEARANCE TO ENSURE PROPER FIT.

*** DIAPHRAGM MEMBERS CONFIGURED TO ALLOW A MINIMUM 1/2" CLEARANCE TO THE PIPE CASING. DETAIL AND COORDINATE THE CLEARANCE WITH THE UTILITY PLANS AND SHOW ON SHOP DRAWINGS.



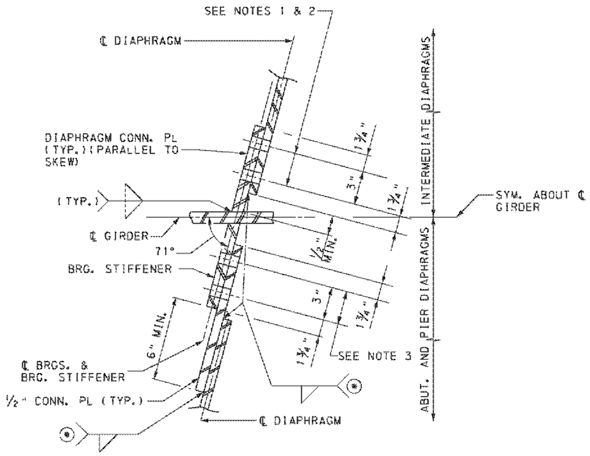
WATER LINE SUPPORT DETAIL

12 0 12 INCHES

NOTE:

1. UTILITY CONNECTION PLATE IS PERPENDICULAR TO WEB.
2. GALVANIZE ALL HANGERS, ROLLER SUPPORTS AND ASSOCIATED HARDWARE.

**** SEE WATER UTILITY PLANS AND SPECIAL PROVISIONS.



DIAPHRAGM CONNECTION PLATE - PLAN VIEW

NOT TO SCALE

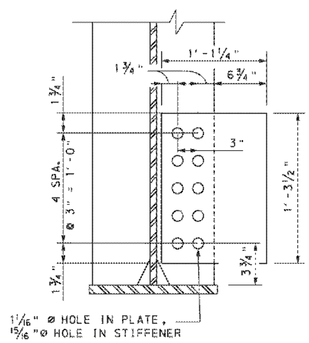
(*) SEE DETAIL O

DIAPHRAGM CONNECTION NOTES:

1. 1¹⁄₁₆" DIA. HOLE IN CONNECTION PLATE; ¹⁵⁄₁₆" DIA. HOLE IN CONNECTION MEMBER, FOR ⅞" DIA. ASTM F3125 GRADE A325 BOLTS. OVERSIZE HOLE IN CONNECTION PLATE IS OPTIONAL. STANDARD HOLE IS PERMITTED.

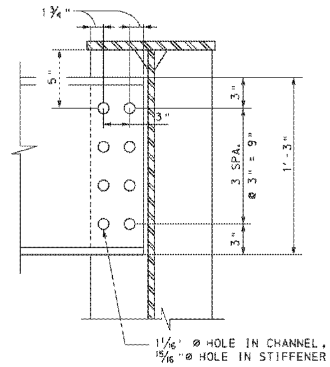
2. USE ⅞" DIA. ASTM F3125 GRADE A325 BOLTS HAVING AN UNTHREADED SHANK OF SUFFICIENT LENGTH TO NOT ALLOW ANY THREADS TO EXIST IN THE PLANE BETWEEN THE TWO CONNECTED PARTS (SHEAR PLANE).

3. 1¹⁄₁₆" DIA. HOLE IN BEARING STIFFENERS; ¹⁵⁄₁₆" DIA. HOLE IN CONNECTION PLATE FOR ⅞" DIA. ASTM F3125 GRADE A325 BOLTS. OVERSIZE HOLE IN BEARING STIFFENERS IS OPTIONAL. STANDARD SIZE HOLE IS PERMITTED. IF A STANDARD HOLE IS PROVIDED IN THE CONNECTION PLATE, THE EDGE DISTANCE MAY BE REDUCED 1½".



DETAIL M

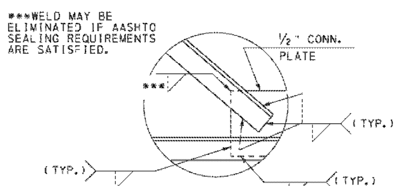
NOT TO SCALE



DETAIL N

NOT TO SCALE

NOTE: FOR ADDITIONAL DETAILS AND NOTES NOT SHOWN SEE BC-754M. ALL WELDS SPECIFIED SHALL BE ⁵⁄₁₆" UNLESS NOTED OTHERWISE.

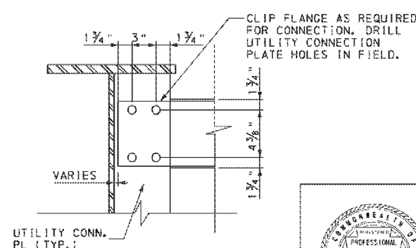


DETAIL O

TYPICAL WELD DETAIL

NOT TO SCALE

NOTE: TERMINATE WELDS ½" SHORT OF EDGE AT EACH END OF EACH WELD



DETAIL P

NOT TO SCALE

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
DIAPHRAGM AND UTILITY SUPPORT DETAILS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

DES: PPN | DWG: DSF | CKD: PPN

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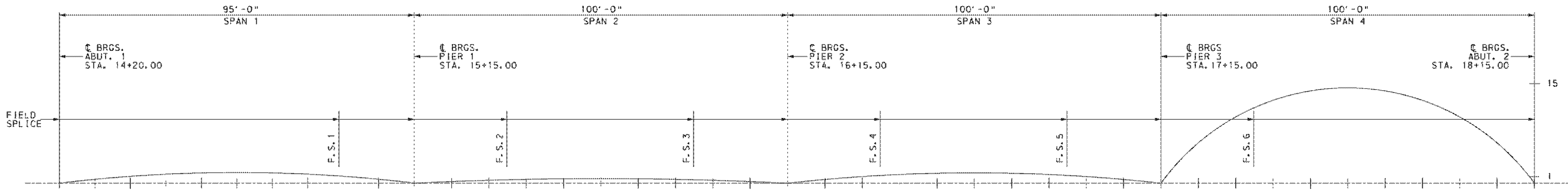

CAMBER DIAGRAM

NOT TO SCALE

		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
										FS						FS						FS		
LOCATION		0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.79	0.8	0.9	0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9
G1	A	0	0.10	0.18	0.24	0.27	0.27	0.23	0.17	0.11	0.11	0.04	0	0.00	0.03	0.05	0.07	0.10	0.12	0.11	0.09	0.07	0.05	0.02
G1	B	0	0.30	0.55	0.73	0.81	0.80	0.70	0.52	0.34	0.32	0.12	0	0.00	0.09	0.15	0.21	0.30	0.35	0.34	0.27	0.22	0.16	0.06
G1	C	0	0.20	0.36	0.48	0.54	0.53	0.46	0.35	0.22	0.21	0.08	0	0.00	0.06	0.10	0.14	0.20	0.23	0.22	0.18	0.15	0.11	0.04
G1	D	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G1	E	0	0.59	1.10	1.45	1.62	1.60	1.39	1.04	0.67	0.63	0.24	0	0.01	0.19	0.30	0.42	0.61	0.70	0.68	0.54	0.44	0.33	0.11
		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
G2	A	0	0.10	0.19	0.25	0.28	0.27	0.24	0.18	0.12	0.11	0.04	0	0.00	0.03	0.05	0.07	0.10	0.12	0.12	0.09	0.08	0.06	0.02
G2	B	0	0.31	0.58	0.77	0.85	0.84	0.73	0.55	0.36	0.33	0.13	0	0.00	0.10	0.16	0.22	0.32	0.37	0.36	0.28	0.23	0.17	0.06
G2	C	0	0.20	0.36	0.48	0.54	0.53	0.46	0.35	0.22	0.21	0.08	0	0.00	0.06	0.10	0.14	0.20	0.23	0.22	0.18	0.14	0.11	0.04
G2	D	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G2	E	0	0.61	1.13	1.50	1.67	1.64	1.43	1.08	0.69	0.65	0.25	0	0.01	0.19	0.31	0.43	0.63	0.72	0.70	0.55	0.45	0.34	0.11
		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
G3	A	0	0.10	0.19	0.25	0.28	0.27	0.24	0.18	0.12	0.11	0.04	0	0.00	0.03	0.05	0.07	0.10	0.12	0.12	0.09	0.08	0.06	0.02
G3	B	0	0.30	0.55	0.73	0.81	0.80	0.70	0.52	0.34	0.32	0.12	0	0.00	0.09	0.15	0.21	0.30	0.35	0.34	0.27	0.22	0.16	0.06
G3	C	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G3	D	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G3	E	0	0.40	0.74	0.98	1.09	1.07	0.93	0.70	0.45	0.42	0.16	0	0.00	0.13	0.20	0.28	0.41	0.47	0.46	0.36	0.29	0.22	0.07

		℄ BRG.	SPAN 3											℄ BRG.	SPAN 4										℄ BRG.
					FS						FS						FS								
LOCATION		0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0
G1	A	0	0.01	0.04	0.06	0.07	0.09	0.10	0.08	0.05	0.03	0.01	-0.01	0	0.06	0.14	0.19	0.23	0.30	0.34	0.35	0.31	0.23	0.13	0
G1	B	0	0.04	0.13	0.18	0.22	0.28	0.29	0.24	0.15	0.09	0.04	-0.03	0	0.17	0.42	0.56	0.68	0.90	1.03	1.04	0.93	0.70	0.38	0
G1	C	0	0.03	0.09	0.12	0.15	0.19	0.19	0.16	0.10	0.06	0.03	-0.02	0	0.11	0.28	0.37	0.45	0.60	0.68	0.69	0.61	0.46	0.25	0
G1	D	0	0.18	0.36	0.46	0.55	0.73	0.91	1.09	1.27	1.37	1.46	1.22	0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0
G1	E	0	0.26	0.62	0.81	0.99	1.29	1.48	1.57	1.57	1.55	1.54	1.17	0	4.77	8.73	10.35	11.72	13.62	14.37	13.90	12.20	9.28	5.19	0
		℄ BRG.	SPAN 3											℄ BRG.	SPAN 4										℄ BRG.
G2	A	0	0.01	0.04	0.06	0.08	0.10	0.10	0.08	0.05	0.03	0.01	-0.01	0	0.06	0.14	0.19	0.23	0.31	0.35	0.36	0.32	0.24	0.13	0
G2	B	0	0.04	0.14	0.19	0.23	0.30	0.30	0.25	0.15	0.10	0.05	-0.03	0	0.18	0.44	0.58	0.72	0.95	1.08	1.09	0.97	0.73	0.40	0
G2	C	0	0.03	0.09	0.12	0.15	0.19	0.19	0.16	0.10	0.06	0.03	-0.02	0	0.11	0.28	0.37	0.45	0.60	0.68	0.69	0.61	0.46	0.25	0
G2	D	0	0.14	0.28	0.35	0.42	0.56	0.70	0.84	0.98	1.05	1.13	1.03	0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0
G2	E	0	0.22	0.55	0.72	0.88	1.14	1.29	1.33	1.29	1.25	1.21	0.98	0	4.78	8.75	10.38	11.76	13.68	14.43	13.96	12.25	9.32	5.21	0
		℄ BRG.	SPAN 3											℄ BRG.	SPAN 4										℄ BRG.
G3	A	0	0.01	0.04	0.06	0.08	0.10	0.10	0.08	0.05	0.03	0.01	-0.01	0	0.06	0.14	0.19	0.23	0.31	0.35	0.36	0.32	0.24	0.13	0
G3	B	0	0.04	0.13	0.18	0.22	0.28	0.29	0.24	0.15	0.09	0.04	-0.03	0	0.17	0.42	0.56	0.68	0.90	1.03	1.04	0.93	0.70	0.38	0
G3	C	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0
G3	D	0	0.10	0.21	0.26	0.31	0.42	0.52	0.63	0.73	0.78	0.84	0.84	0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0
G3	E	0	0.16	0.38	0.50	0.61	0.80	0.91	0.95	0.93	0.91	0.89	0.80	0	4.66	8.45	9.99	11.27	13.04	13.70	13.22	11.59	8.82	4.94	0

LEGEND

- A = CAMBER DUE TO WEIGHT OF STEEL
- B = CAMBER DUE TO WEIGHT OF CONCRETE
- C = CAMBER DUE TO SUPERIMPOSED DEAD LOAD (EXCLUDES FUTURE WEARING SURFACE)
- D = CAMBER DUE TO VERTICAL CURVE
- E = TOTAL CAMBER
- FS = FIELD SPLICE

CAMBER ORDINATES ARE GIVEN AT TENTH POINTS ALONG SPAN AND AT FIELD SPLICES.

NOTES:

1. POSITIVE CAMBER ORDINATES LISTED IN THE TABLE IS UPWARD.
2. NEGATIVE CAMBER ORDINATES LISTED IN THE TABLE ARE DOWNWARD.
3. SUPERIMPOSED DEAD LOAD ORDINATES INCLUDE THE WEIGHT OF THE BARRIER.
4. THE WEIGHT OF THE FUTURE WEARING SURFACE IS NOT INCLUDED IN THE CHAMBER ORDINATES.
5. AFTER ALL SUPERSTRUCTURE STEEL HAS BEEN ERECTED AND FALSEWORK REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE GIRDER FLANGES AT THE POINTS WHERE THE ROADWAY ELEVATIONS ARE SHOWN. THE DIFFERENCE BETWEEN THESE ELEVATIONS AND THE ROADWAY ELEVATIONS PLUS THE CONCRETE DEAD LOAD DEFLECTION WILL BE THE THICKNESS OF THE SLAB AT THESE POINTS. THE MINIMUM SLAB THICKNESS OVER THE STEEL SHALL NOT BE LESS THAN 8" (INCLUDING INTEGRAL WEARING SURFACE). IF THE GIRDER HAS EXCESSIVE CAMBER AND THE MINIMUM CANNOT BE OBTAINED, THE ROADWAY GRADE SHALL BE ADJUSTED TO OBTAIN THIS THICKNESS.
6. CAMBER ORDINATES SHOWN FOR CONCRETE DECK ARE BASED ON A SLAB PLACEMENT SEQUENCE ANALYSIS IN WHICH THE STIFFNESS OF THE GIRDER AND UNBRACED LENGTH CHANGES FOR EACH DECK POUR. SEE SHEET 38 FOR SLAB POUR SEQUENCE.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

CAMBER DIAGRAM - 1

RECOMMENDED 10/20/2025

SHEET 32 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN

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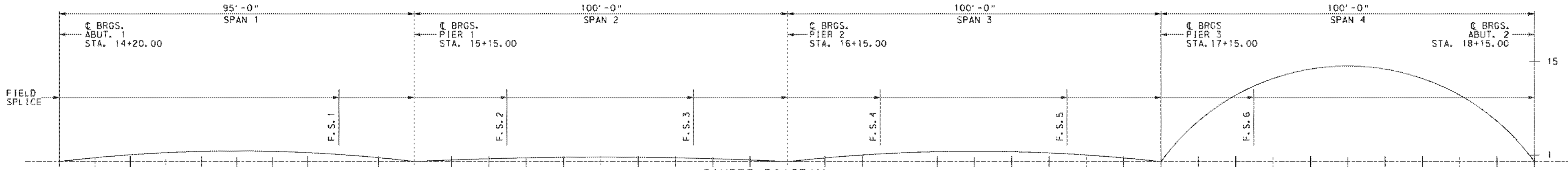


CAMBER DIAGRAM

NOT TO SCALE

		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
										FS						FS						FS		
LOCATION		0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.79	0.8	0.9	0.0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9
G4	A	0.0	0.10	0.19	0.25	0.28	0.27	0.24	0.18	0.12	0.11	0.04	0.0	0.00	0.03	0.05	0.07	0.10	0.12	0.12	0.09	0.08	0.06	0.02
G4	B	0.0	0.30	0.55	0.73	0.81	0.80	0.70	0.52	0.34	0.32	0.12	0.0	0.00	0.09	0.15	0.21	0.30	0.35	0.34	0.27	0.22	0.16	0.06
G4	C	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G4	D	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G4	E	0.0	0.40	0.74	0.98	1.09	1.07	0.93	0.70	0.45	0.42	0.16	0.0	0.00	0.13	0.20	0.28	0.41	0.47	0.46	0.36	0.29	0.22	0.07
		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
										FS						FS						FS		
G5	A	0.0	0.10	0.19	0.25	0.28	0.27	0.24	0.18	0.12	0.11	0.04	0.0	0.00	0.03	0.05	0.07	0.10	0.12	0.12	0.09	0.08	0.06	0.02
G5	B	0.0	0.30	0.55	0.73	0.81	0.80	0.70	0.52	0.34	0.32	0.12	0.0	0.00	0.09	0.15	0.21	0.30	0.35	0.34	0.27	0.22	0.16	0.06
G5	C	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G5	D	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G5	E	0.0	0.40	0.74	0.98	1.09	1.07	0.93	0.70	0.45	0.42	0.16	0.0	0.00	0.13	0.20	0.28	0.41	0.47	0.46	0.36	0.29	0.22	0.07
		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
										FS						FS						FS		
G6	A	0.0	0.10	0.19	0.25	0.28	0.27	0.24	0.18	0.12	0.11	0.04	0.0	0.00	0.03	0.05	0.07	0.10	0.12	0.12	0.09	0.08	0.06	0.02
G6	B	0.0	0.31	0.58	0.77	0.85	0.84	0.73	0.55	0.36	0.33	0.13	0.0	0.00	0.10	0.16	0.22	0.32	0.37	0.36	0.28	0.23	0.17	0.06
G6	C	0.0	0.20	0.36	0.48	0.54	0.53	0.46	0.35	0.22	0.21	0.08	0.0	0.00	0.06	0.10	0.14	0.20	0.23	0.22	0.18	0.14	0.11	0.04
G6	D	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G6	E	0.0	0.61	1.13	1.50	1.67	1.64	1.43	1.08	0.69	0.65	0.25	0.0	0.01	0.19	0.31	0.43	0.63	0.72	0.70	0.55	0.45	0.34	0.11
		℄ BRG.	SPAN 1										℄ BRG.	SPAN 2										
										FS						FS						FS		
G7	A	0.0	0.10	0.18	0.24	0.27	0.27	0.23	0.17	0.11	0.11	0.04	0.0	0.00	0.03	0.05	0.07	0.10	0.12	0.11	0.09	0.07	0.05	0.02
G7	B	0.0	0.30	0.55	0.73	0.81	0.80	0.70	0.52	0.34	0.32	0.12	0.0	0.00	0.09	0.15	0.21	0.30	0.35	0.34	0.27	0.22	0.16	0.06
G7	C	0.0	0.20	0.36	0.48	0.54	0.53	0.46	0.35	0.22	0.21	0.08	0.0	0.00	0.06	0.10	0.14	0.20	0.23	0.22	0.18	0.15	0.11	0.04
G7	D	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G7	E	0.0	0.59	1.10	1.45	1.62	1.60	1.39	1.04	0.67	0.63	0.24	0.0	0.01	0.19	0.30	0.42	0.61	0.70	0.68	0.54	0.44	0.33	0.11

		℄ BRG.	SPAN 3										℄ BRG.	SPAN 4										℄ BRG.
					FS						FS					FS								
LOCATION		0.0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.75	0.8	0.9	0.0	0.1	0.2	0.25	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.0
G4	A	0.0	0.01	0.04	0.06	0.08	0.10	0.10	0.08	0.05	0.03	0.01	-0.01	0.0	0.06	0.14	0.19	0.23	0.31	0.35	0.36	0.32	0.24	0.13	0.0
G4	B	0.0	0.04	0.13	0.18	0.22	0.28	0.29	0.24	0.15	0.09	0.04	-0.03	0.0	0.17	0.42	0.56	0.68	0.90	1.03	1.04	0.93	0.70	0.38	0.0
G4	C	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
G4	D	0.0	0.07	0.15	0.18	0.22	0.29	0.37	0.44	0.52	0.55	0.59	0.64	0.0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0.0
G4	E	0.0	0.13	0.32	0.42	0.52	0.67	0.75	0.76	0.71	0.68	0.65	0.60	0.0	4.66	8.45	9.99	11.27	13.04	13.70	13.22	11.59	8.82	4.94	0.0
		℄ BRG.	SPAN 3										℄ BRG.	SPAN 4										℄ BRG.
					FS						FS					FS								
G5	A	0.0	0.01	0.04	0.06	0.08	0.10	0.10	0.08	0.05	0.03	0.01	-0.01	0.0	0.06	0.14	0.19	0.23	0.31	0.35	0.36	0.32	0.24	0.13	0.0
G5	B	0.0	0.04	0.13	0.18	0.22	0.28	0.29	0.24	0.15	0.09	0.04	-0.03	0.0	0.17	0.42	0.56	0.68	0.90	1.03	1.04	0.93	0.70	0.38	0.0
G5	C	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
G5	D	0.0	0.05	0.10	0.12	0.14	0.19	0.24	0.29	0.34	0.36	0.39	0.43	0.0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0.0
G5	E	0.0	0.10	0.27	0.36	0.44	0.57	0.63	0.61	0.54	0.49	0.44	0.40	0.0	4.66	8.45	9.99	11.27	13.04	13.70	13.22	11.59	8.82	4.94	0.0
		℄ BRG.	SPAN 3										℄ BRG.	SPAN 4										℄ BRG.
					FS						FS					FS								
G6	A	0.0	0.01	0.04	0.06	0.08	0.10	0.10	0.08	0.05	0.03	0.01	-0.01	0.0	0.06	0.14	0.19	0.23	0.31	0.35	0.36	0.32	0.24	0.13	0.0
G6	B	0.0	0.04	0.14	0.19	0.23	0.30	0.30	0.25	0.15	0.10	0.05	-0.03	0.0	0.18	0.44	0.58	0.72	0.95	1.08	1.09	0.97	0.73	0.40	0.0
G6	C	0.0	0.03	0.09	0.12	0.15	0.19	0.19	0.16	0.10	0.06	0.03	-0.02	0.0	0.11	0.28	0.37	0.45	0.60	0.68	0.69	0.61	0.46	0.25	0.0
G6	D	0.0	0.03	0.06	0.07	0.08	0.11	0.14	0.17	0.20	0.21	0.23	0.25	0.0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0.0
G6	E	0.0	0.11	0.32	0.44	0.54	0.69	0.73	0.66	0.50	0.41	0.32	0.20	0.0	4.78	8.75	10.38	11.76	13.68	14.43	13.96	12.25	9.32	5.21	0.0
		℄ BRG.	SPAN 3										℄ BRG.	SPAN 4										℄ BRG.
					FS						FS					FS								
G7	A	0.0	0.01	0.04	0.06	0.07	0.09	0.10	0.08	0.05	0.03	0.01	-0.01	0.0	0.06	0.14	0.19	0.23	0.30	0.34	0.35	0.31	0.23	0.13	0.0
G7	B	0.0	0.04	0.13	0.18	0.22	0.28	0.29	0.24	0.15	0.09	0.04	-0.03	0.0	0.17	0.42	0.56	0.68	0.90	1.03	1.04	0.93	0.70	0.38	0.0
G7	C	0.0	0.03	0.09	0.12	0.15	0.19	0.19	0.16	0.10	0.06	0.03	-0.02	0.0	0.11	0.28	0.37	0.45	0.60	0.68	0.69	0.61	0.46	0.25	0.0
G7	D	0.0	0.01	0.03	0.03	0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.12	0.0	4.44	7.89	9.24	10.35	11.83	12.32	11.83	10.35	7.89	4.44	0.0
G7	E	0.0	0.09	0.29	0.39	0.48	0.62	0.64	0.56	0.39	0.29	0.20	0.07	0.0	4.77	8.73	10.35	11.72	13.62	14.37	13.90	12.20	9.28	5.19	0.0

LEGEND

A = CAMBER DUE TO WEIGHT OF STEEL

B = CAMBER DUE TO WEIGHT OF CONCRETE

C = CAMBER DUE TO SUPERIMPOSED DEAD LOAD (EXCLUDES FUTURE WEARING SURFACE)

D = CAMBER DUE TO VERTICAL CURVE

E = TOTAL CAMBER

FS = FIELD SPLICE

CAMBER ORDINATES ARE GIVEN AT TENTH POINTS ALONG SPAN AND AT FIELD SPLICES.

NOTES:

1. POSITIVE CAMBER ORDINATES LISTED IN THE TABLE IS UPWARD.
2. NEGATIVE CAMBER ORDINATES LISTED IN THE TABLE ARE DOWNWARD.
3. SUPERIMPOSED DEAD LOAD ORDINATES INCLUDE THE WEIGHT OF THE BARRIER.
4. THE WEIGHT OF THE FUTURE WEARING SURFACE IS NOT INCLUDED IN THE CHAMBER ORDINATES.
5. AFTER ALL SUPERSTRUCTURE STEEL HAS BEEN ERECTED AND FALSEWORK REMOVED, THE CONTRACTOR SHALL TAKE ELEVATIONS ALONG THE TOP OF THE GIRDER FLANGES AT THE POINTS WHERE THE ROADWAY ELEVATIONS ARE SHOWN. THE DIFFERENCE BETWEEN THESE ELEVATIONS AND THE ROADWAY ELEVATIONS PLUS THE CONCRETE DEAD LOAD DEFLECTION WILL BE THE THICKNESS OF THE SLAB AT THESE POINTS. THE MINIMUM SLAB THICKNESS OVER THE STEEL SHALL NOT BE LESS THAN 8" (INCLUDING INTEGRAL WEARING SURFACE). IF THE GIRDER HAS EXCESSIVE CAMBER AND THE MINIMUM CANNOT BE OBTAINED, THE ROADWAY GRADE SHALL BE ADJUSTED TO OBTAIN THIS THICKNESS.
6. CAMBER ORDINATES SHOWN FOR CONCRETE DECK ARE BASED ON A SLAB PLACEMENT SEQUENCE ANALYSIS IN WHICH THE STIFFNESS OF THE GIRDER AND UNBRACED LENGTH CHANGES FOR EACH DECK POUR. SEE SHEET 38 FOR SLAB POUR SEQUENCE.

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

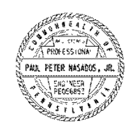
BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

CAMBER DIAGRAM - 2



RECOMMENDED 10/20/2025

L-435

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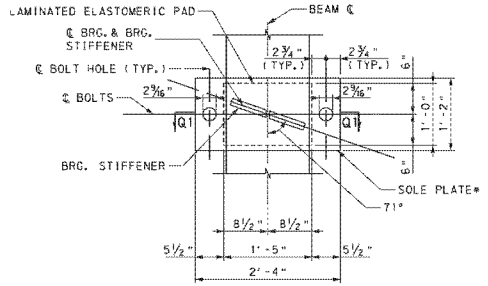
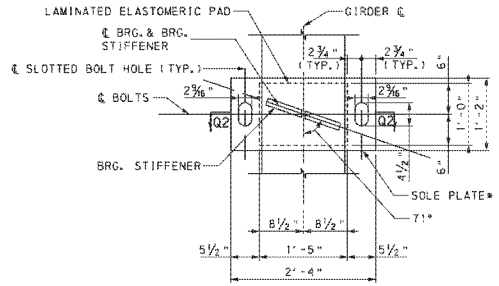


FIXED BEARING - PLAN VIEW

6 0 6 12 INCHES

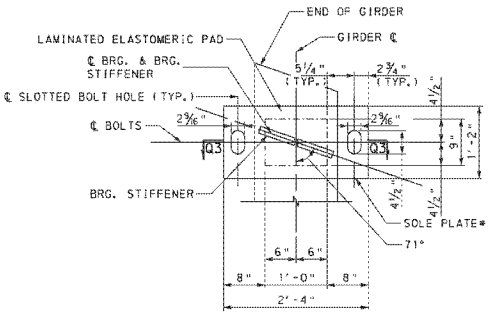
FIXED BEARINGS AT PIER 2



EXPANSION BEARING AT PIERS - PLAN VIEW

6 0 6 12 INCHES

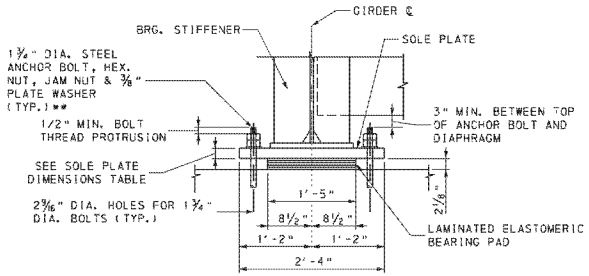
EXPANSION BEARINGS AT PIER 1 AND 3



EXPANSION BEARING AT ABUTS. - PLAN VIEW

6 0 6 12 INCHES

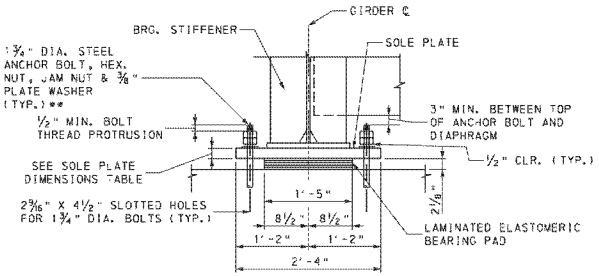
* PROVIDE FLATNESS TOLERANCE IN ACCORDANCE WITH PUB. 408, SECTION 1105.03(q).



FIXED BEARING SECTION Q1-Q1

6 0 6 12 INCHES

FIXED BEARINGS AT PIER 2



EXPANSION BEARING AT PIERS - SECTION Q2-Q2

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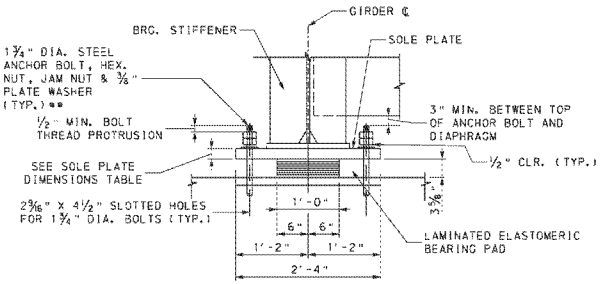
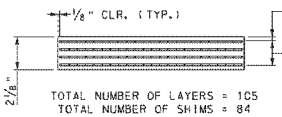
EXPANSION BEARINGS AT PIERS 1 AND 3



EXPANSION BEARING AT ABUTS. - SECTION Q3-Q3

6 0 6 12 INCHES

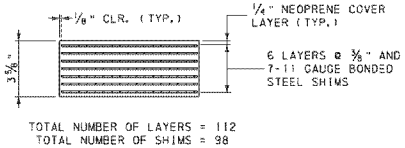
** DRAW NUT FINGER TIGHT AND BACK OFF ¼ TURN AND PEEN BOLT THREADS AT FACE OF NUTS.



TOTAL NUMBER OF LAYERS = 105
TOTAL NUMBER OF SHIMS = 84

ELASTOMERIC BEARING PAD SECTION (PIERS)

NOT TO SCALE



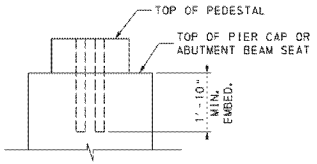
TOTAL NUMBER OF LAYERS = 112
TOTAL NUMBER OF SHIMS = 98

ELASTOMERIC BEARING PAD SECTION (ABUTS.)

NOT TO SCALE

NOTES:

1. FOR SOLE PLATE DIMENSION TABLE, SEE SHEET 35.
2. FOR ADDITIONAL BEARING PAD INFORMATION, SEE SHEET 35.
3. EMBED ANCHOR BOLT 1'-10" MIN. BELOW TOP OF PIER CAP OR BEAM SEAT AT ABUTMENTS, SEE DETAIL THIS SHEET.
4. ANCHOR BOLTS TO BE ASTM F1554, GRADE 105.



ANCHOR BOLT EMBEDMENT DETAIL

NOT TO SCALE

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
BEARING DETAILS - 1

RECOMMENDED 10/20/2025

SHEET 34 OF 63

L-435

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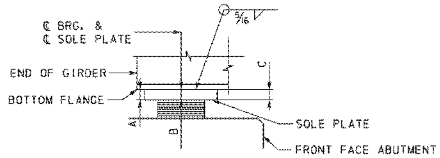
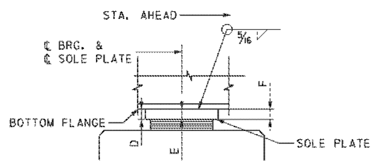


SOLE PLATE DETAILS - ABUTMENTS

NOT TO SCALE
NOTE: SEE SOLE PLATE DIMENSIONS TABLE FOR DIMENSIONS A, B, AND C.

SOLE PLATE DIMENSIONS (INCHES)						
GIRDER NUMBER	ABUTMENT 1			ABUTMENT 2		
	A	B	C	C	B	A
1	2.000	2.438	2.875	2.500	2.250	2.000
2	2.000	2.438	2.875	2.500	2.250	2.000
3	2.000	2.438	2.875	2.500	2.250	2.000
4	2.000	2.438	2.875	2.500	2.250	2.000
5	2.000	2.438	2.875	2.500	2.250	2.000
6	2.000	2.438	2.875	2.375	2.188	2.000
7	2.000	2.438	2.875	2.375	2.188	2.000



SOLE PLATE DETAILS - PIERS

NOT TO SCALE
NOTE: SEE SOLE PLATE DIMENSIONS TABLE FOR DIMENSIONS A, B, AND C.

SOLE PLATE DIMENSIONS (INCHES)									
GIRDER NUMBER	PIER 1			PIER 2			PIER 3		
	D	E	F	D	E	F	D	E	F
1	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.313	2.625
2	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.313	2.625
3	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.313	2.625
4	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.313	2.625
5	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.375	2.750
6	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.375	2.750
7	2.000	2.438	2.875	2.000	2.438	2.875	2.000	2.375	2.750

BEARING PAD DESIGN DATA TABLE				
DESCRIPTION	ABUTS	PIER 1	PIER 2	PIER 3
PAD FIXITY (FIX OR EXP.)	EXP.	EXP.	FIX	EXP.
NO. OF PADS PER GIRDER END	1	1	1	1
SHAPE FACTOR	6.875	9.379	9.379	9.379
AREA ($in.^2$)	108	204	204	204
LENGTH/HEIGHT	2.51	5.71	5.71	5.71
WIDTH/HEIGHT	3.35	8.08	8.08	8.08
NO. ELASTOMER LAYERS	8	5	5	5
TOTAL ELASTOMER THICKNESS(in.)	2.750	1.625	1.625	1.625
TOTAL BRG. PAD THICKNESS (in.)	3.5872	2.1034	2.1034	2.1034
LENGTH (in.)	9	12	12	12
WIDTH (in.)	12	17	17	17
CONSTRUCTION TOLERANCE (RAD.) TRANSVERSE AXIS	0.008	0.008	0.008	0.008
CONSTRUCTION TOLERANCE (RAD.) LONGITUDINAL AXIS	0.005	0.005	0.005	0.005

NOTE:

BEARING PAD DESIGN WAS BASED ON METHOD B, WITH A SHEAR MODULUS OF 125 PSI (MIN.), 140 PSI (MAX.). TEST PADS IN ACCORDANCE WITH PUB 408 SECTION 1113 AND 1113.03(f) TO ENSURE THE PROPER SHEAR MODULUS RANGE IS ATTINED.

TOTAL NUMBER OF PADS: 35
TOTAL NUMBER OF SHIMS: 182

BEARING PAD NOTES:

- SMOOTH CUT AND DEBURR METAL SHIMS.
- GRIT BLAST AND DEGREASE METAL SHIMS.
- MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THE COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PLANS AND SPECIFICATIONS (PUB. 408) SECTION 1113.
- ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
- PROVIDE NEOPRENE 50 +/-5 DUROMETER.
- PROVIDE MINIMUM LOW-TEMPERATURE NEOPRENE GRADE 3.
- PROVIDE INTERNAL SHIMS AS PER ASTM A36/A36M GRADE 36.
- VULCANIZE PATCH PIN GROOVES.
- FABRICATOR MAY USE CONTRACT DRAWINGS TO FABRICATE THE BEARING PADS.
- FOR ADDITIONAL NOTES AND DETAILS, SEE BC-755M AND SHEET 34.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
BEARING DETAILS - 2

RECOMMENDED 10/20/2025

L-435

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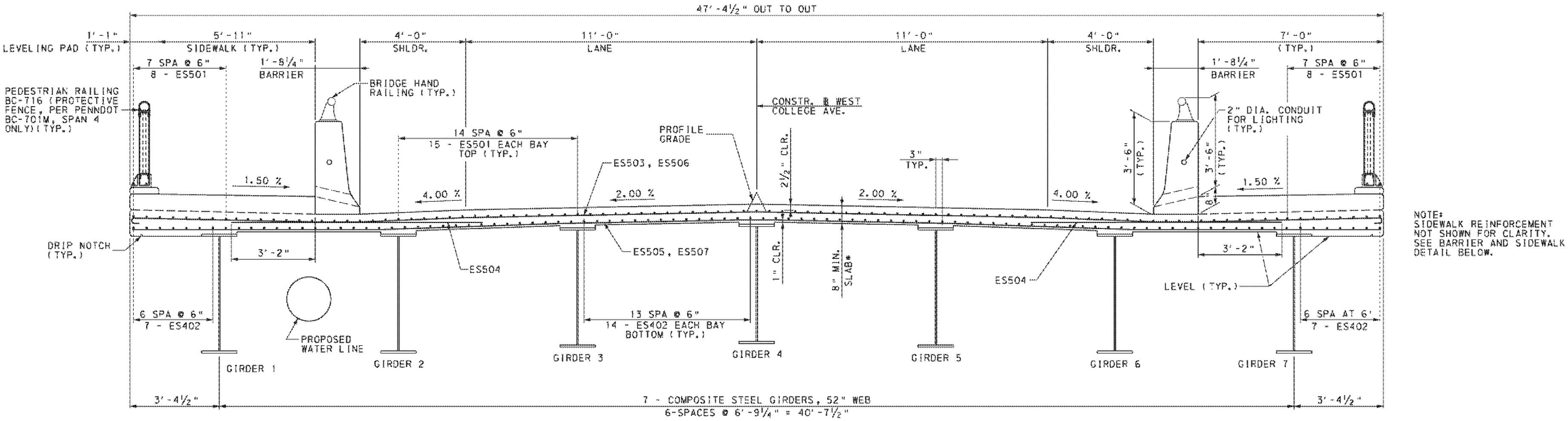


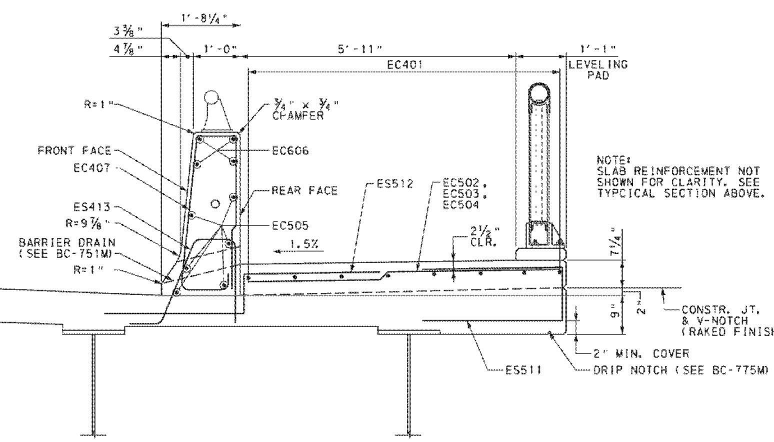
NOTE:
SIDEWALK REINFORCEMENT NOT SHOWN FOR CLARITY. SEE BARRIER AND SIDEWALK DETAIL BELOW.

* INCLUDES ½" INTEGRAL WEARING SURFACE

SLAB TYPICAL SECTION

1 0 1 2 FEET

NOTE: LIGHTING POLES AND BARRIER BLISTERS NOT SHOWN.



NOTE:
SLAB REINFORCEMENT NOT SHOWN FOR CLARITY. SEE TYPCICAL SECTION ABOVE.

BARRIER AND SIDEWALK DETAIL

12 0 12 INCHES

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
SLAB TYPICAL SECTION

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE058853

RECOMMENDED 10/20/2025

SHEET 36 OF 63

L-435

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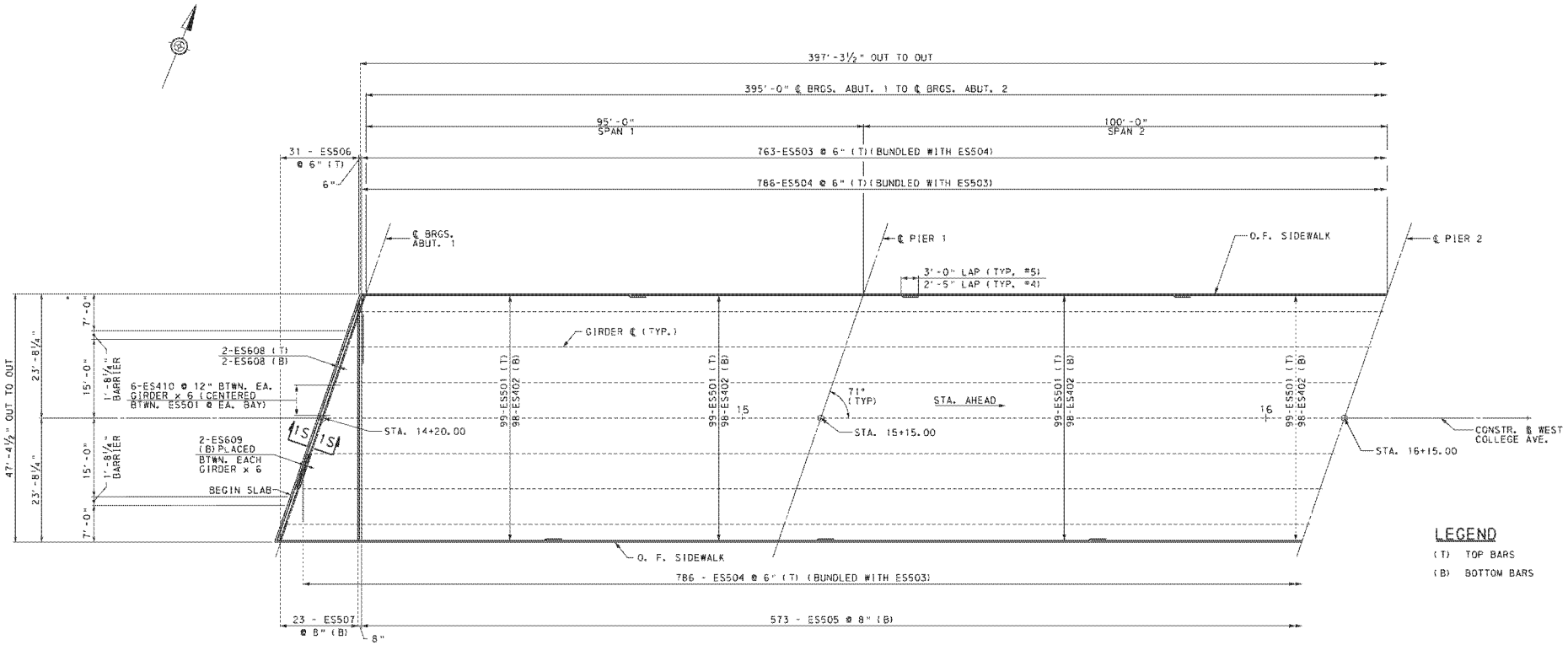
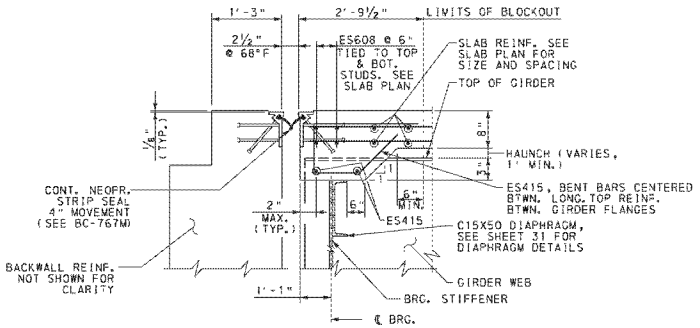


SLAB PLAN SPANS 1 AND 2

5 0 5 10 FEET



DETAIL SECTION 1S-1S

NOT TO SCALE

NOTE:
SECTION SHOWN PERPENDICULAR TO ABUTMENT.

ABUTMENT 1 SHOWN, ABUTMENT 2 SIMILAR

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
SLAB PLAN - SPANS 1 & 2

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER MASADOS, JR. ENGINEER PE-258953

RECOMMENDED 10/20/2025

SHEET 37 OF 63

L-435

DES: PPN | DWG: KSB/DSF | CKD: PPN

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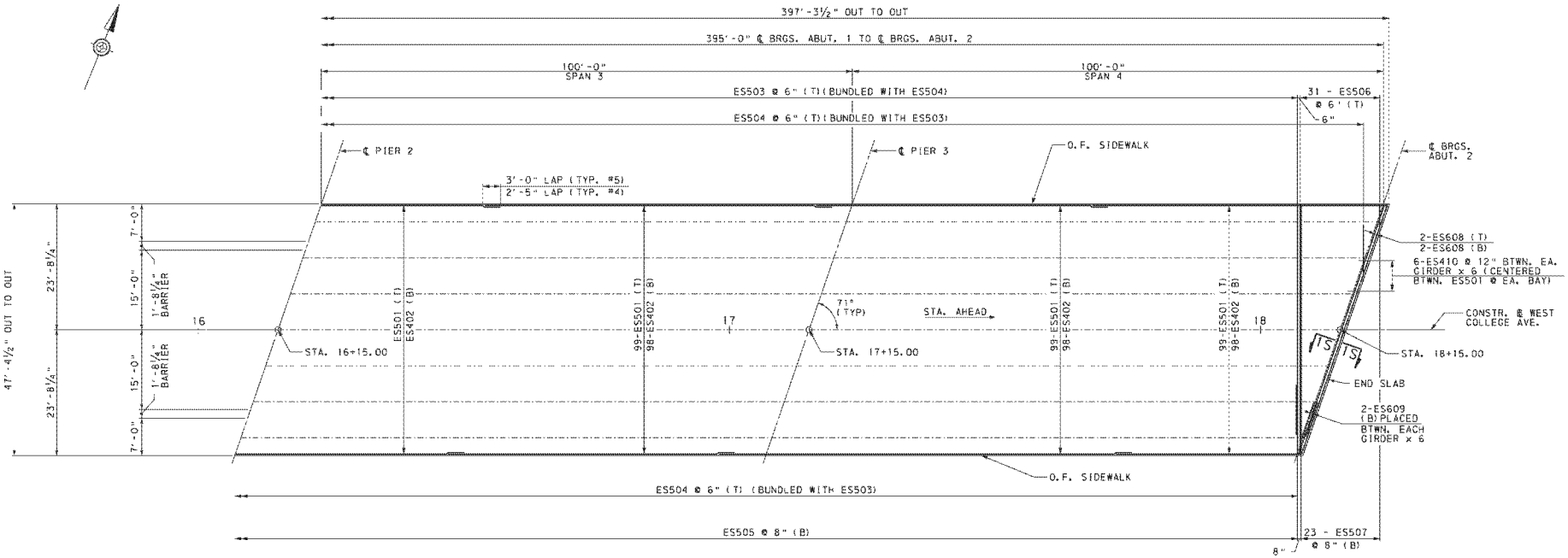
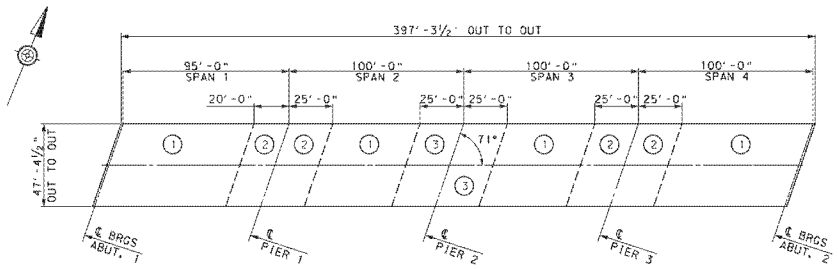


SLAB PLAN SPANS 3 AND 4

5 0 5 10 FEET

NOTE: FOR DETAIL SECTION 1S-1S, SEE SHEET 37



SLAB PLACEMENT SEQUENCE

NOT TO SCALE

NOTES:

1. TWO DAYS MUST ELAPSE BETWEEN PLACEMENT IN ADJACENT SPANS.
2. AN ALTERNATIVE DECK PLACEMENT SEQUENCE IS PERMITTED WITH PRIOR APPROVAL BY THE DEPARTMENT.

LEGEND

(T) TOP BARS
(B) BOTTOM BARS
(1) SLAB POUR SEQUENCE

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
SLAB PLAN - SPANS 3 & 4

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. PE-250853

RECOMMENDED 10/20/2025

SHEET 38 OF 63

L-435

DES: PPN | DWG: KSB/DSF | CKD: PPN

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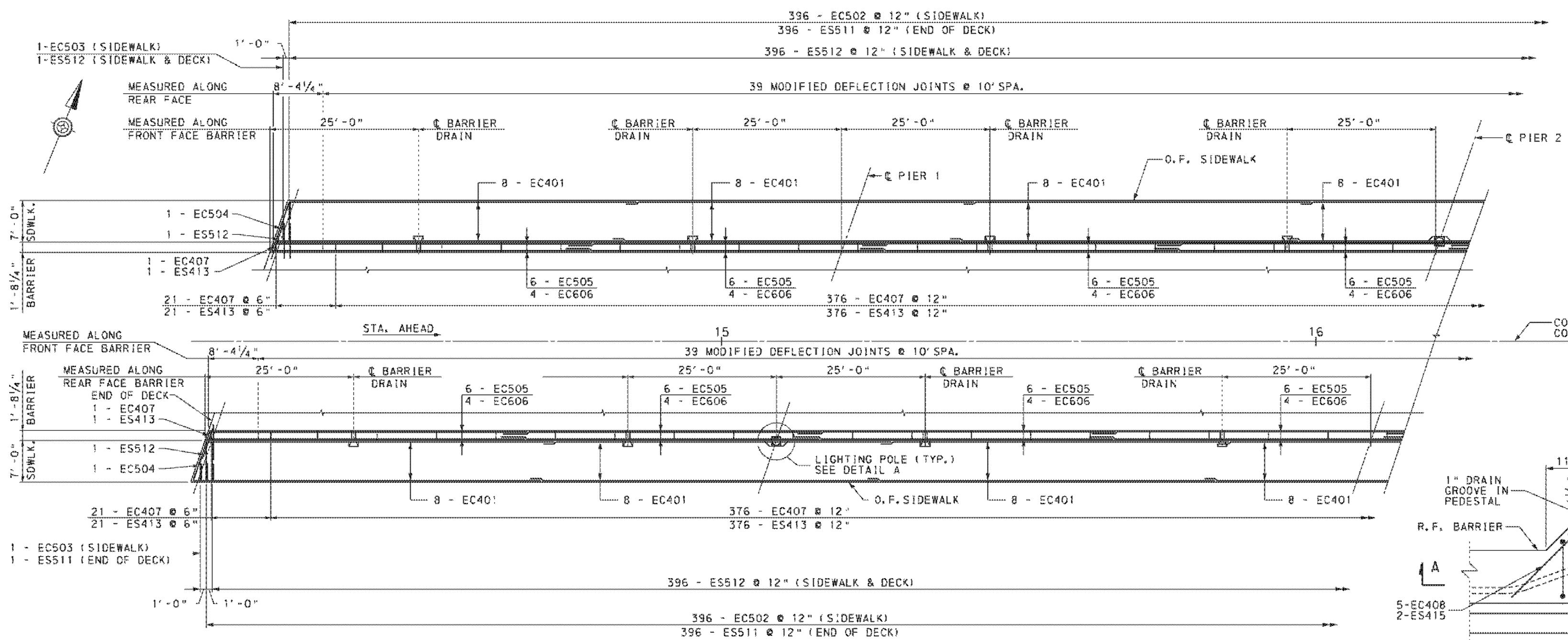
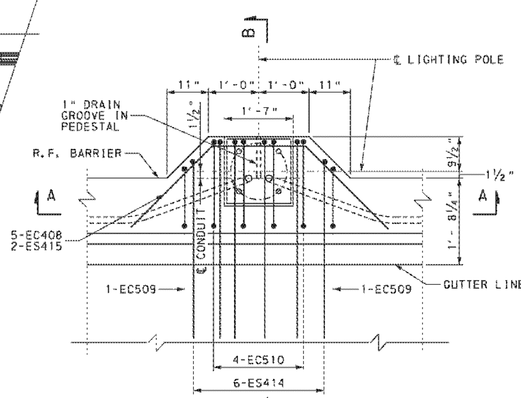


REQ'D. LAP LENGTHS BARRIERS

#5 BARS = 3'-7"
#6 BARS = 4'-4"

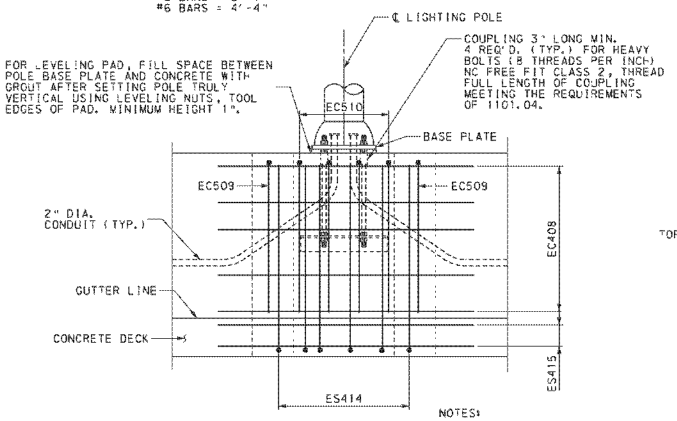
BARRIER AND SIDEWALK PLAN SPANS 1 AND 2

5 0 5 10 FEET



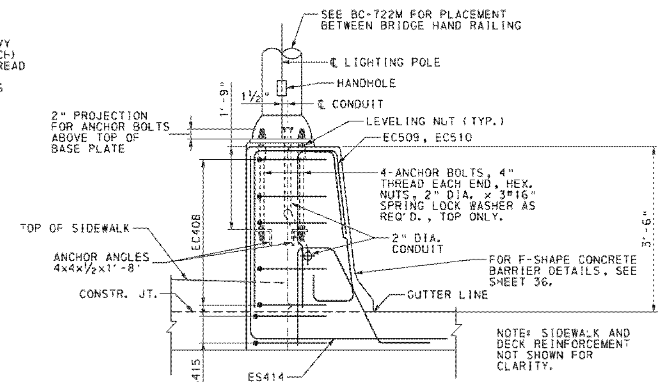
DETAIL A

NOT TO SCALE



SECTION A-A

NOT TO SCALE



SECTION B-B

NOT TO SCALE

NOTES:

FOR LIGHT POLE STATIONS AND LOCATIONS, SEE UTILITY NOTES IN GENERAL NOTES.

DETAILS ARE TYPICAL AT FIVE (5) LOCATIONS.

PROVIDE A JUNCTION BOX (JB-25) AT EACH LIGHTING POLE INSTALLATION. LOCATE THE JUNCTION BOX ON THE SIDEWALK FACE OF THE BARRIER 2.5' FROM THE CENTERLINE OF THE LIGHTING POLE. ENSURE THE JUNCTION BOX IS NOT LOCATED NEAR ANY BARRIER JOINTS.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
BARRIER & SIDEWALK PLAN - SPANS 1 & 2

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE058553

RECOMMENDED 10/20/2025

SHEET 39 OF 63

L-435

DES: PPN | DWG: NM/KSB | CKD: TJC

FILE NAME: P:\0037\003721_0429\Microstation\BRIDGE\B37210429-BARRIER & SIDEWALK 1-2.dgn
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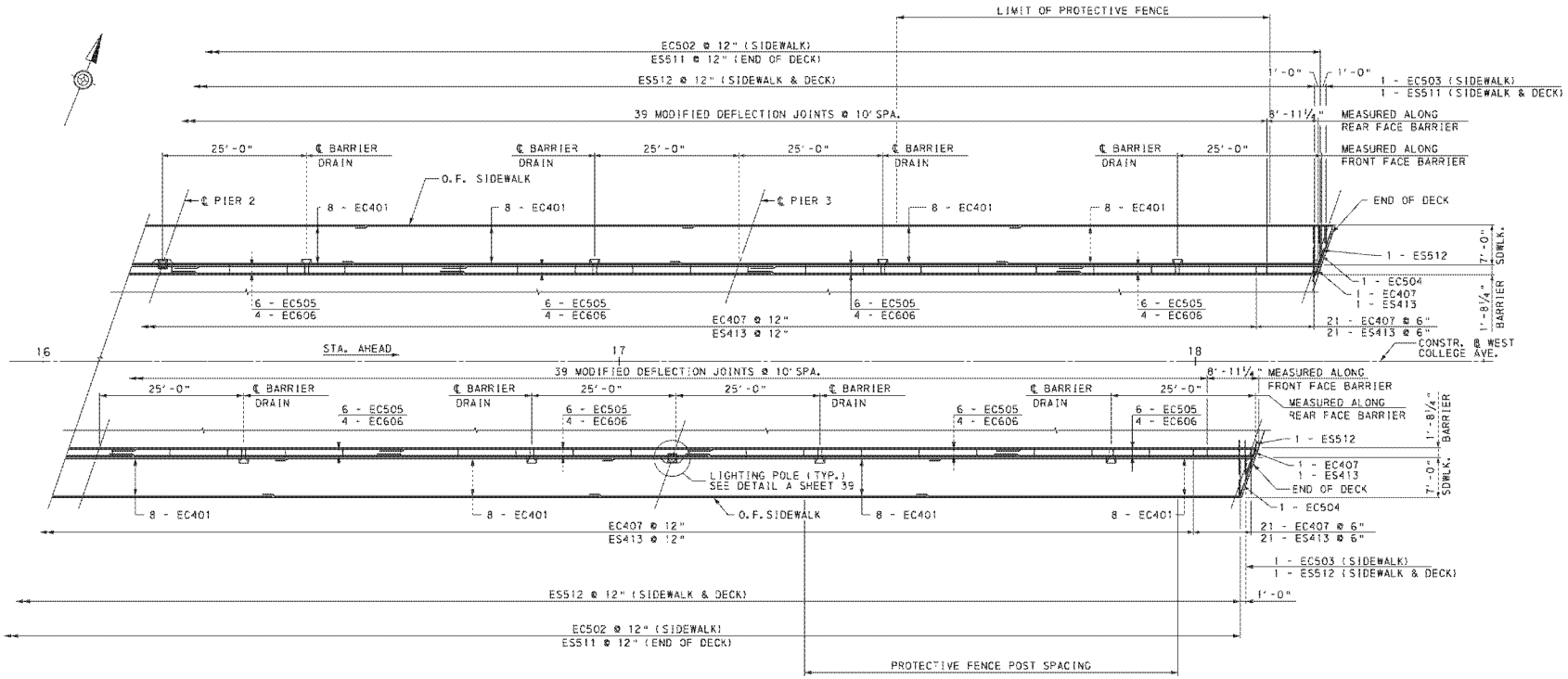
PEN TABLE: $PENTBL$
PLOT DRIVER: $PLTDRV$ pnasados



REQ'D. LAP LENGTHS
BARRIERS

#5 BARS = 3'-7"
#6 BARS = 4'-4"

BARRIER AND SIDEWALK PLAN SPANS 3 AND 4

5 0 5 10 FEET

Mark	Description	By	Chk'd	Recm'd	Date
REVISIONS					

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
BARRIER & SIDEWALK PLAN - SPANS 3 & 4

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER MASADO, JR. ENGINEER PE-258853

RECOMMENDED 10/20/2025

SHEET 40 OF 63

L-435

DES: PPN | DWG: NM/KSB | CKD: TJC

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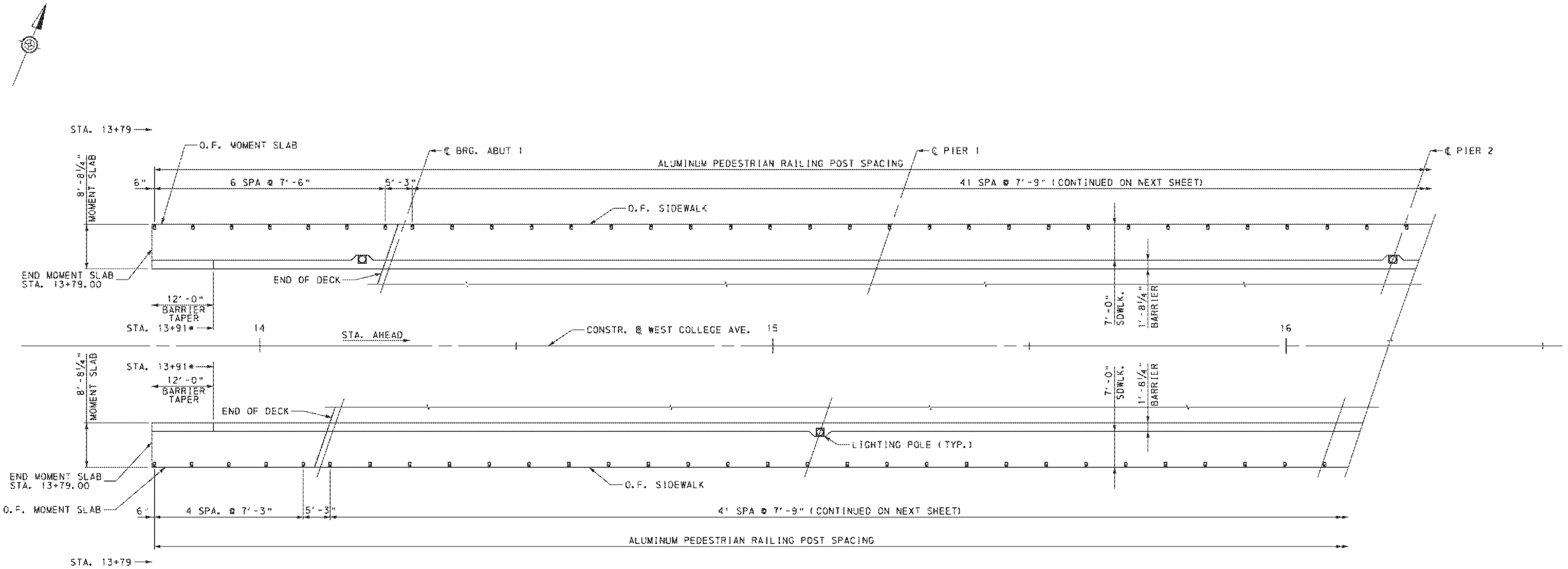


SIDEWALK RAILING PLAN SPANS 1 AND 2

5 0 5 10 FEET

* BEGIN F-SHAPE BARRIER HAND RAILING, SEE BC-720M FOR ADDITIONAL DETAILS.

NOTE: FOR LIGHT POLE STATIONS AND LOCATIONS, SEE UTILITY NOTES IN GENERAL NOTES.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
SIDEWALK RAILING - 1

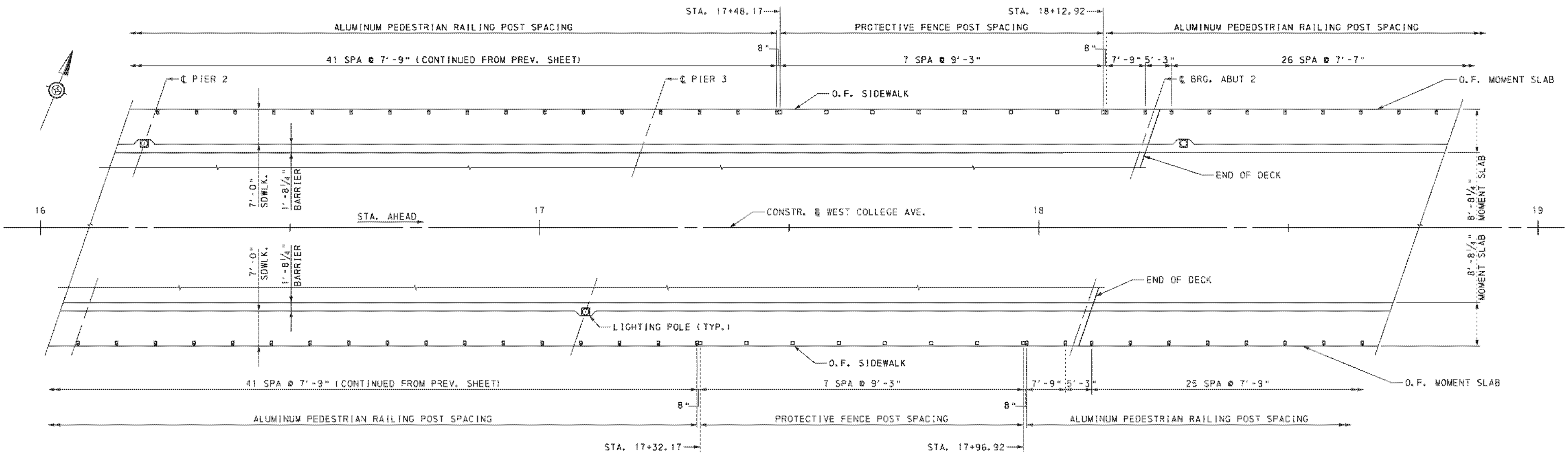
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE056853

RECOMMENDED 10/20/2025

SHEET 41 OF 63

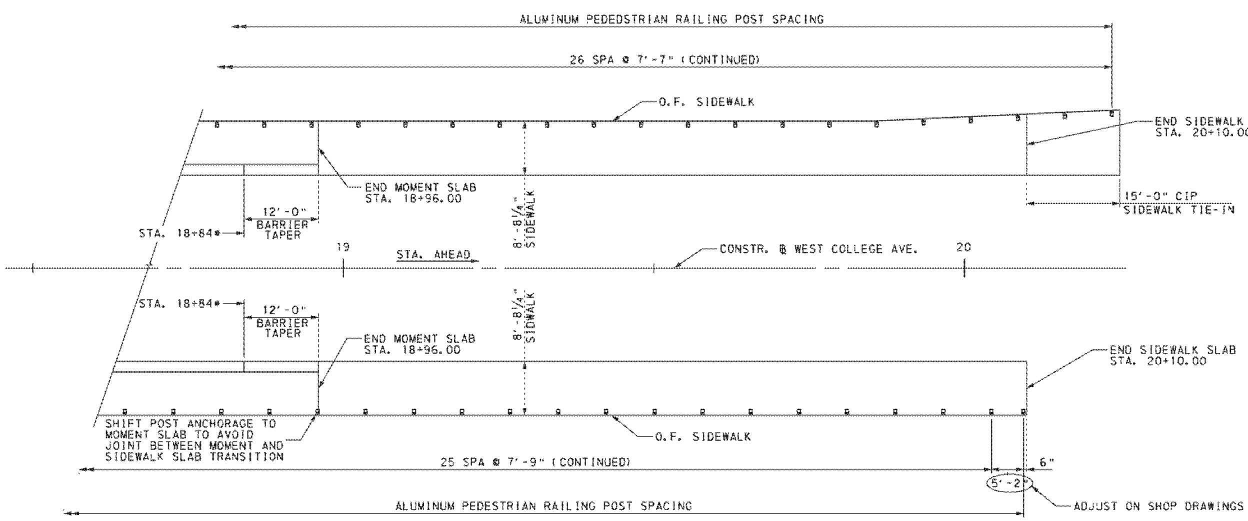
L-435

DES: TJC | DWG: DSF | CKD: TJC



SIDEWALK RAILING PLAN SPANS 3 AND 4

5 0 5 10 FEET



SIDEWALK RAILING PLAN FAR APPROACH

5 0 5 10 FEET

* END F-SHAPE BARRIER HAND RAILING, SEE BC-720M FOR ADDITIONAL DETAILS

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK

4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

SIDEWALK RAILING - 2

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER PAUL PETER NASADOS, JR. PE058853

RECOMMENDED 10/20/2025

SHEET 42 OF 63

L-435

DES: TJC | DWG: DSF | CKD: TJC

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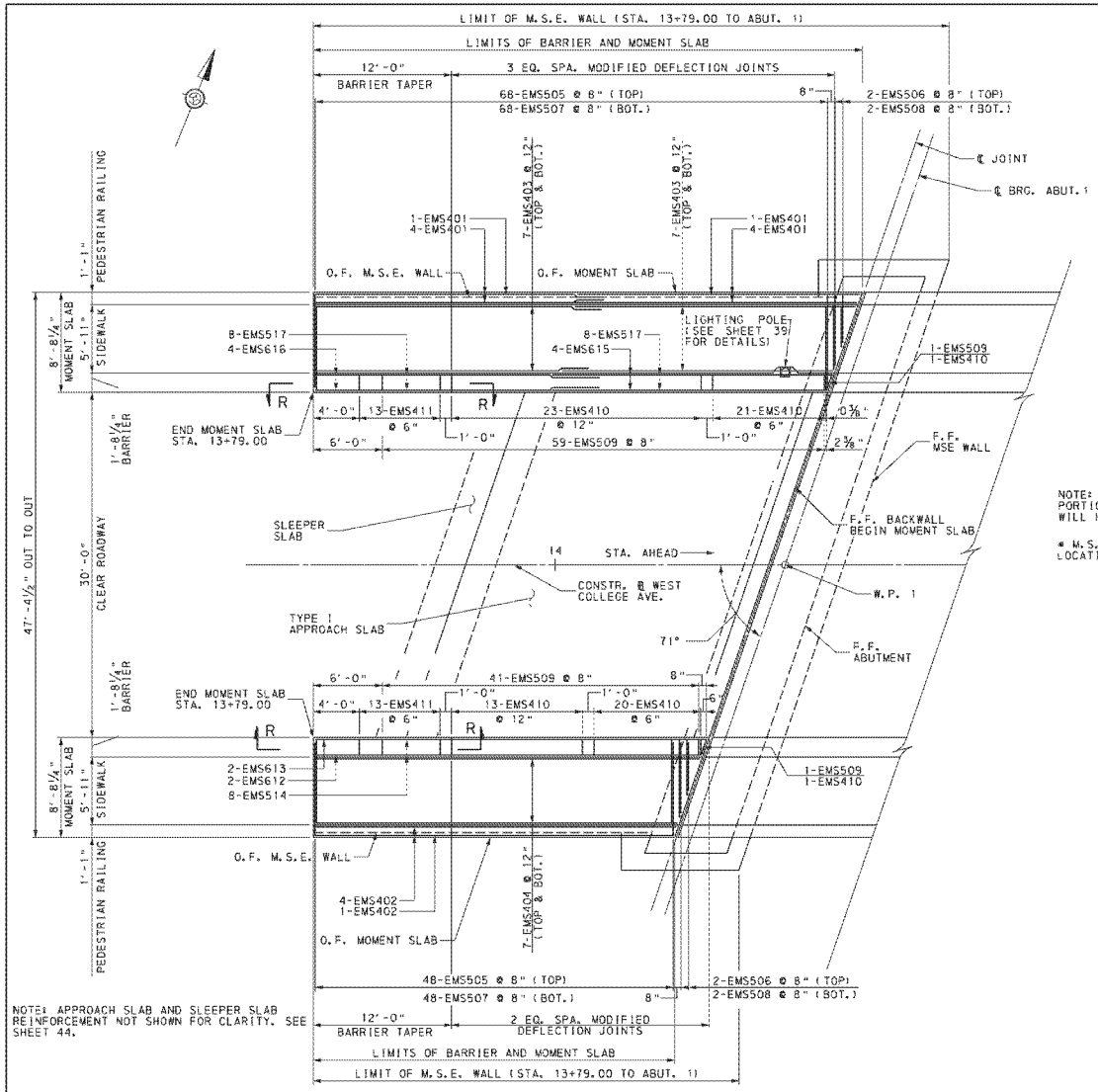


NOTE: APPROACH SLAB AND SLEEPER SLAB REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SHEET 44.

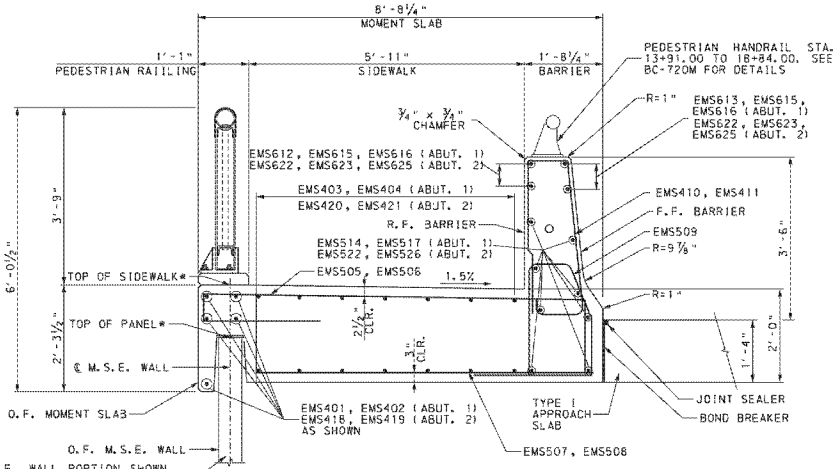
PLAN-ABUTMENT 1 MOMENT SLABS

2 0 2 4 6 FEET

NOTE: FOR ADDITIONAL ABUTMENT 1 DETAILS AND M.S.E. WALL ELEVATIONS, SEE SHEETS 9-12

REQ'D. MIN. LAP LENGTHS

#4 BARS = 2'-5"
#5 BARS = 3'-7"
#6 BARS = 4'-4"



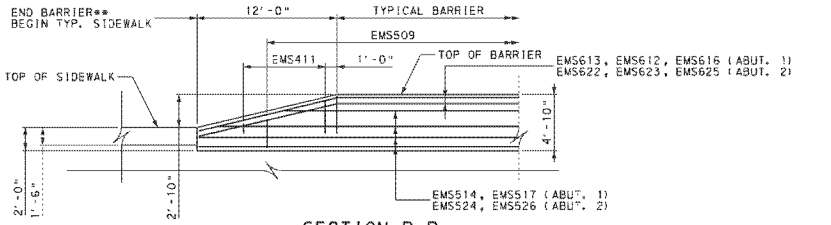
NOTE: M.S.E. WALL PORTION SHOWN, PORTIONS OVER ABUTMENT BACKWALL WILL HAVE CONCRETE FULL DEPTH

* M.S.E. WALL ELEVATION LOCATIONS, SEE SHEET 10

NOTE: FOR DIMENSIONS NOT SHOWN, SEE BC-799M AND M.S.E. WALL SHOP DRAWINGS

TYPICAL MOMENT SLAB SECTION

12 0 12 INCHES



SECTION R-R

2 0 2 4 6 FEET

**WING A BARRIER END - STA. 13+79.00
WING B BARRIER END - STA. 13+79.00
WING C BARRIER END - STA. 18+96.00
WING D BARRIER END - STA. 18+96.00

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

MOMENT SLAB DETAILS - 1

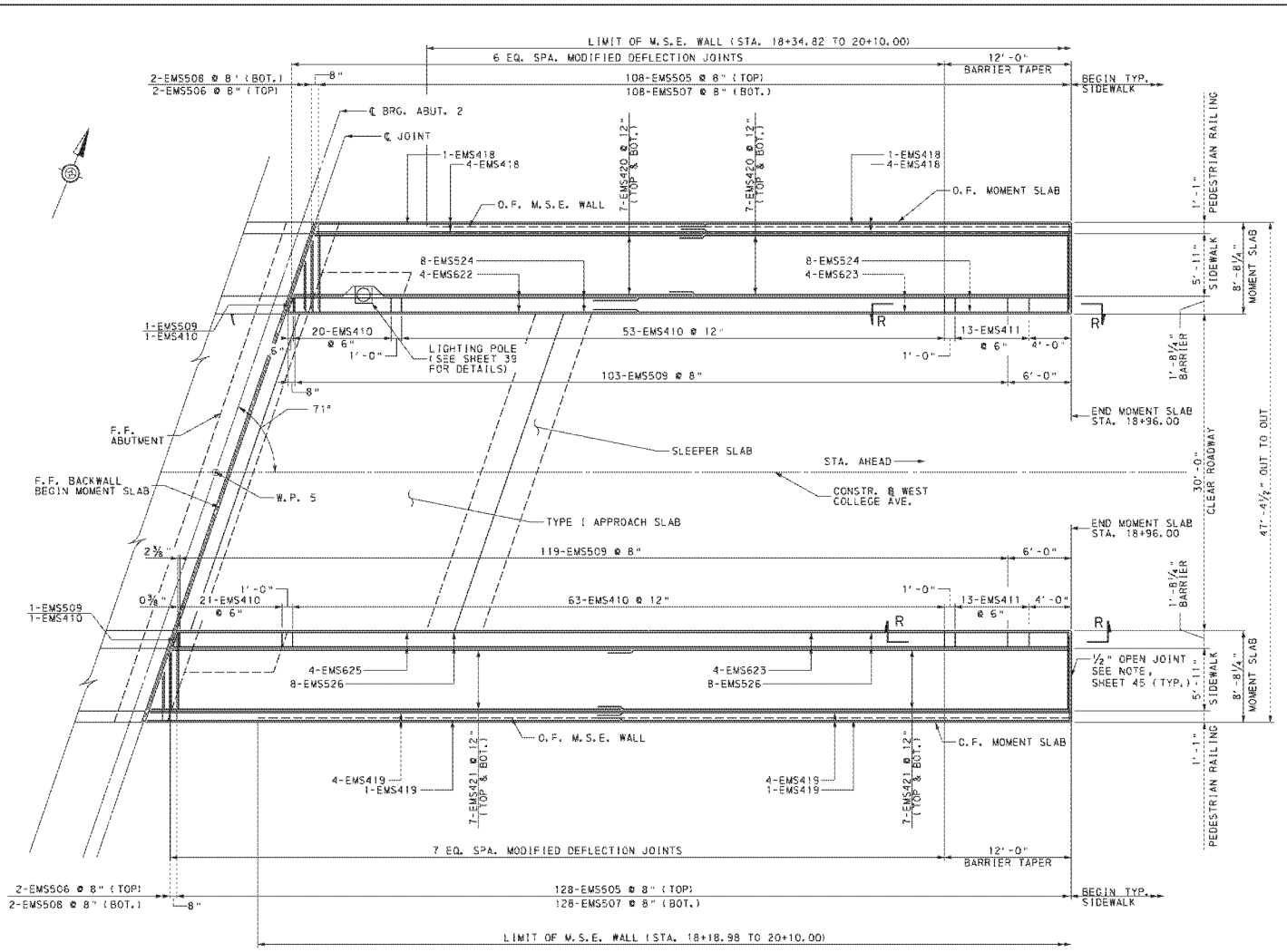
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER MASADO, JR. ENGINEER PE 034053

RECOMMENDED 10/20/2025

SHEET 43 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN



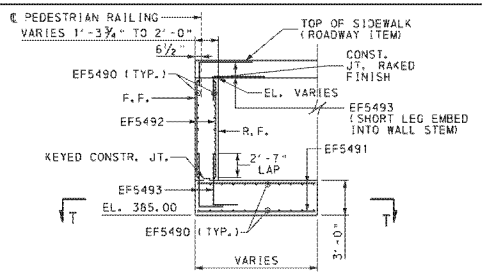
PLAN-ABUTMENT 2 MOMENT SLABS

2 0 2 4 6 FEET

NOTE: APPROACH SLAB AND SLEEPER SLAB REINFORCEMENT NOT SHOWN FOR CLARITY. SEE SHEET 44.

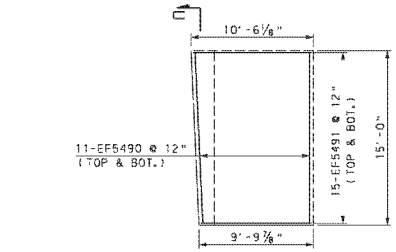
REQ'D. MIN. LAP LENGTHS

#4 BARS = 2'-5"
#5 BARS = 3'-7"
#6 BARS = 4'-4"



WALL SECTION (DETAIL S)

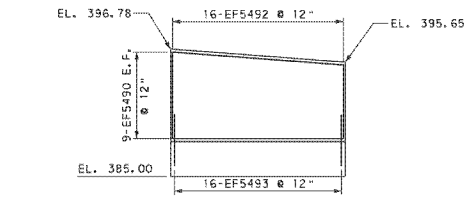
NOT TO SCALE



NOTE: WALL REINF. NOT SHOWN FOR CLARITY.

SECTION T-T

NOT TO SCALE



NOTE: FOOTING REINF. NOT SHOWN FOR CLARITY.

SECTION U-U

NOT TO SCALE

NOTES:

1. FOR SECTION R-R, SEE SHEET 43.
2. FOR TYPICAL SECTION, SEE SHEET 36.
3. FOR LOCATION OF DETAIL S, SEE SHEET 45.
4. FOR ADDITIONAL ABUTMENT 2 DETAILS, SEE SHEETS 14-18.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
MOMENT SLAB DETAILS - 2

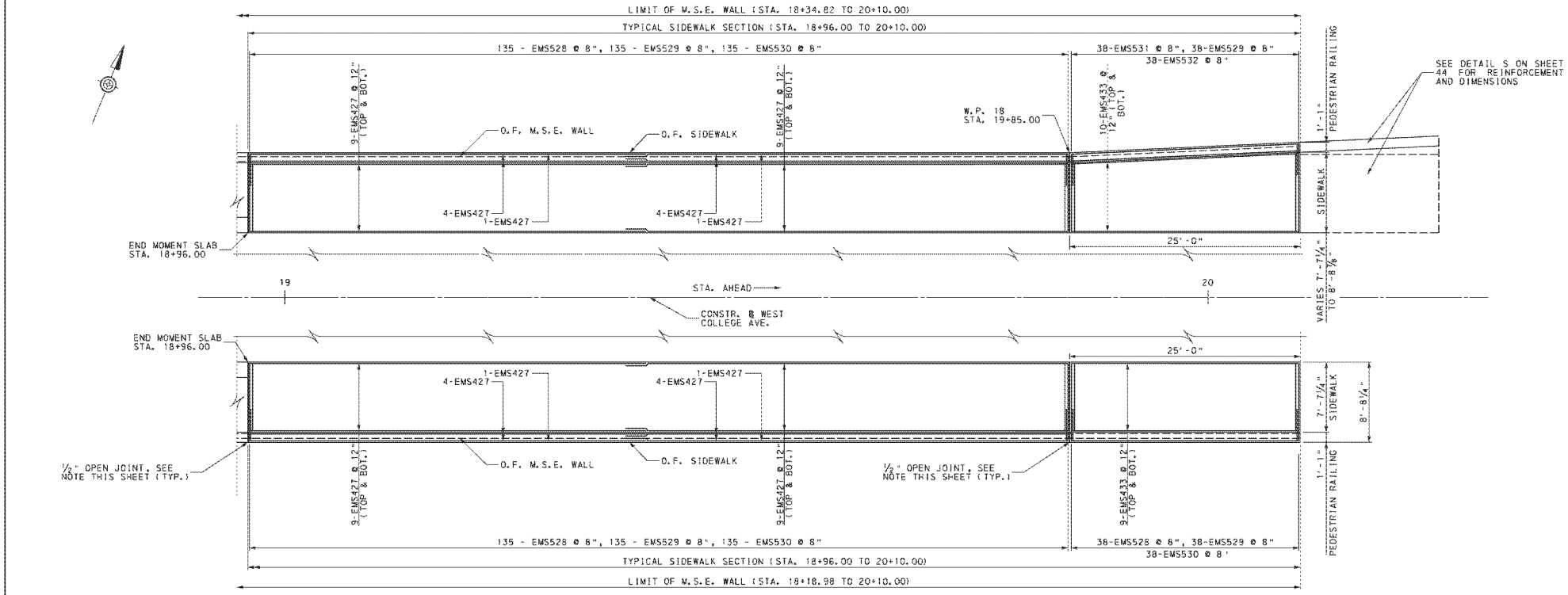
COMMONWEALTH OF PENNSYLVANIA PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. ENGINEER PE 250853

RECOMMENDED 10/20/2025

SHEET 44 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN



PLAN-ABUTMENT 2 TYPICAL SIDEWALK SLAB

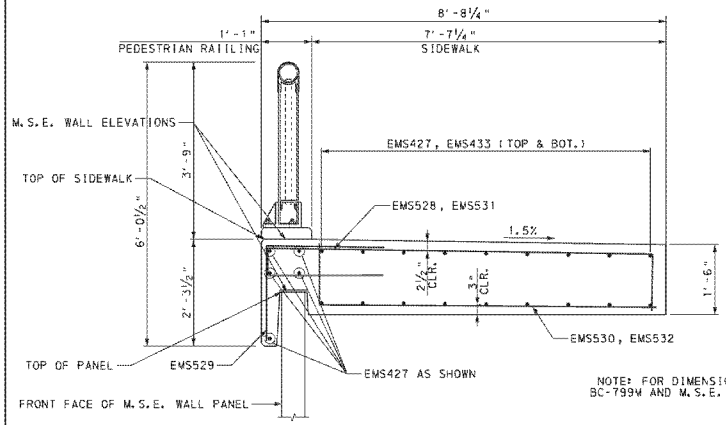
2 0 2 4 6 FEET

NOTE: FOR ADDITIONAL ABUTMENT 2 DETAILS AND M.S.E. WALL ELEVATIONS, SEE SHEETS 14-18.

NOTE: USE A ½" OPEN JOINT AT STA. 18+96.00 AND STA. 19+85.00. THE OPEN JOINT SHALL EXTEND THROUGH THE BARRIER AND FULL WIDTH OF THE SLAB, SEE BC-752M.

REQ'D. MIN. LAP LENGTHS

#4 BARS = 2'-5"
#5 BARS = 3'-7"
#6 BARS = 4'-4"



TYPICAL SIDEWALK SLAB SECTION

12 0 12 INCHES

NOTE: FOR DIMENSIONS NOT SHOWN, SEE BC-799W AND M.S.E. WALL SHOP DRAWINGS

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

ABUTMENT 2 TYPICAL SIDEWALK SLAB

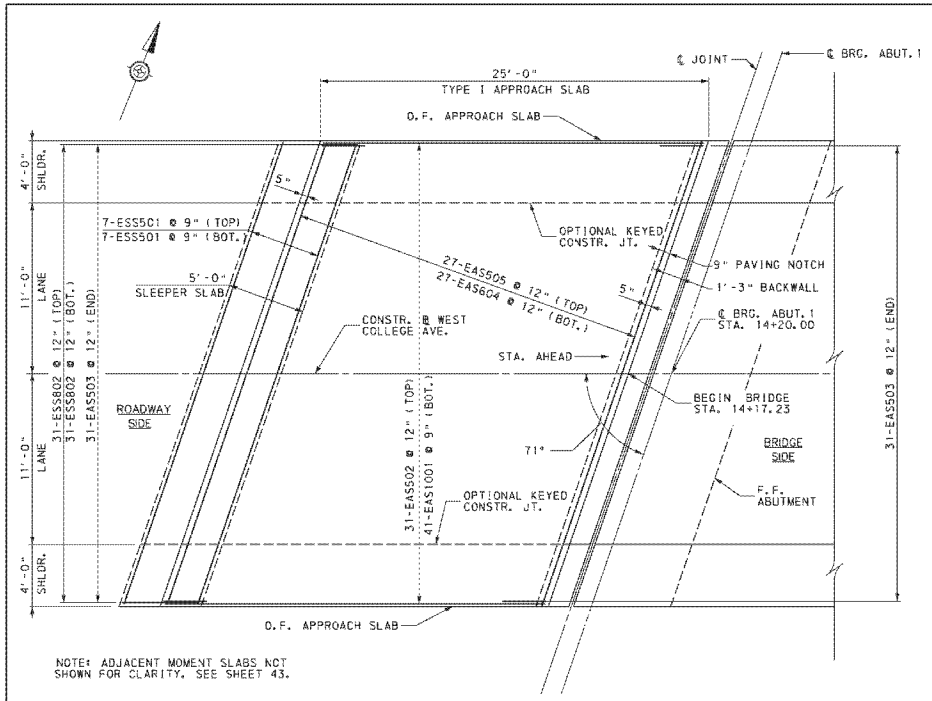
COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL PAUL PETER NASADOS, JR. ENGINEER PE049853

RECOMMENDED 10/20/2025

SHEET 45 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN



NOTE: ADJACENT MOMENT SLABS NOT SHOWN FOR CLARITY. SEE SHEET 43.

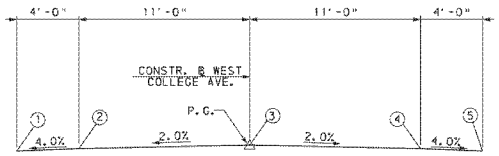
PLAN-NEAR APPROACH SLAB

2 0 2 4 FEET

NOTE: ADJACENT MOMENT SLABS NOT SHOWN FOR CLARITY. SEE SHEET 43.

PLAN-FAR APPROACH SLAB

2 0 2 4 FEET



LOOKING STA. AHEAD

TABLE OF NEAR APPROACH SLAB ELEVATIONS

STATION	①	②	③ P.G.	④	⑤
BEGIN NEAR APPROACH SLAB					
13+87.92	———	———	———	———	385.12
13+88.96	———	———	———	385.34	———
13+91.92	———	———	385.73	———	———
13+96.01	———	385.75	———	———	———
13+97.95	385.93	———	———	———	———
END NEAR APPROACH SLAB					
14+12.01	———	———	———	———	386.54
14+13.04	———	———	———	386.76	———
14+17.02	———	———	387.21	———	———
14+21.01	———	387.23	———	———	———
14+22.03	387.35	———	———	———	———

APPROACH SLAB NOTES:

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

TABLE OF FAR APPROACH SLAB ELEVATIONS

STATION	①	②	③ P.G.	④	⑤
BEGIN FAR APPROACH SLAB					
18+12.61	———	———	———	———	405.22
18+13.99	———	———	———	405.33	———
18+17.77	———	———	405.43	———	———
18+21.56	———	405.07	———	———	———
18+22.94	404.85	———	———	———	———
CENTERLINE FAR APPROACH SLAB					
18+25.11	———	———	———	———	404.76
18+26.49	———	———	———	404.87	———
18+30.27	———	———	404.92	———	———
18+34.06	———	404.52	———	———	———
18+35.44	404.29	———	———	———	———
END FAR APPROACH SLAB					
18+37.61	———	———	———	———	404.18
18+38.99	———	———	———	404.27	———
18+42.77	———	———	404.28	———	———
18+46.56	———	403.84	———	———	———
18+47.94	403.82	———	———	———	———

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
APPROACH SLABS

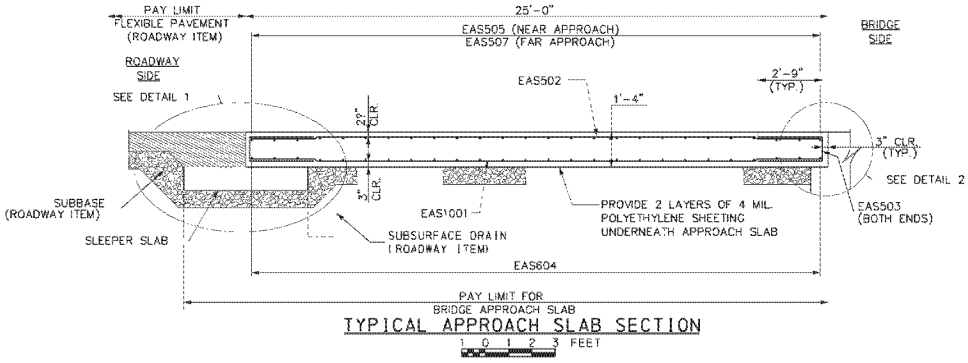
COMMONWEALTH OF PENNSYLVANIA PROFESSIONAL ENGINEER PAUL PETER NASADOS, JR. ENGINEER PE056855

RECOMMENDED 10/20/2025

SHEET 46 OF 63

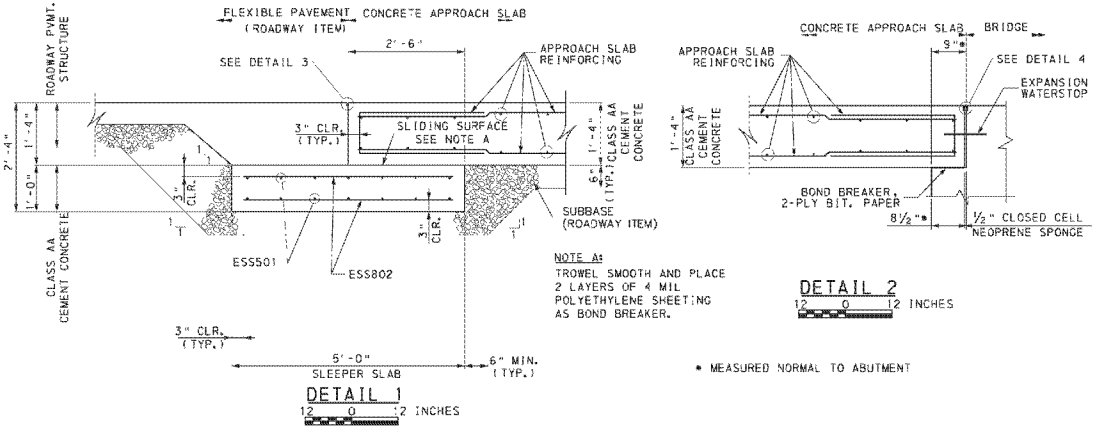
L-435

DES: PPN | DWG: DSF | CKD: PPN



TYPICAL APPROACH SLAB SECTION

1 0 1 2 3 FEET



DETAIL 1

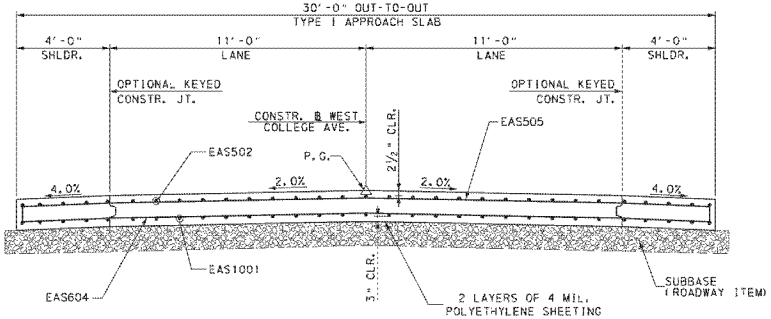
12 0 12 INCHES

NOTE A:
TROWEL SMOOTH AND PLACE
2 LAYERS OF 4 MIL
POLYETHYLENE SHEETING
AS BOND BREAKER.

DETAIL 2

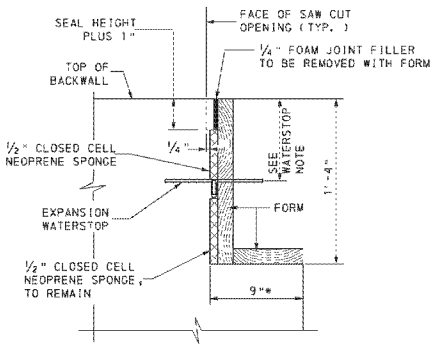
12 0 12 INCHES

* MEASURED NORMAL TO ABUTMENT



TYPICAL SECTION

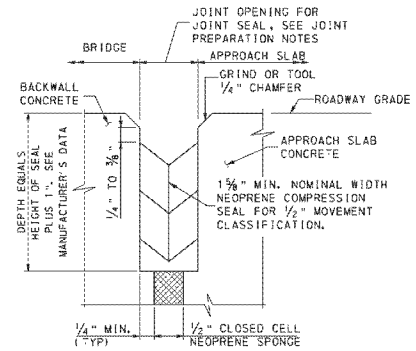
1 0 1 2 3 FEET



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

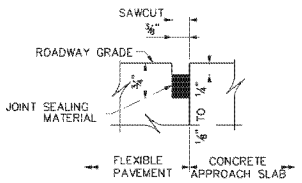
PAVING NOTCH FORMING DETAIL

NOT TO SCALE



DETAIL 4

(NEOPRENE COMPRESSION SEAL)
NOT TO SCALE



DETAIL 3

NOT TO SCALE

JOINT PREPARATION NOTES:

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

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

APPROACH SLAB DETAILS

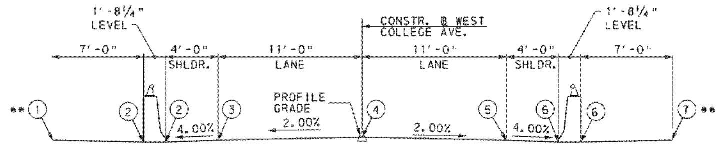
COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
PAUL PETER MASADOS, JR.
ENGINEER
PE056853

RECOMMENDED 10/20/2025

SHEET 47 OF 63

L-435

DES: PPN | DWG: DSF | CKD: PPN



** ELEVATIONS GIVEN AT CONSTRUCTION
JOINT BETWEEN DECK AND SIDEWALK

TABLE OF DECK ELEVS. @ BREAK POINTS

	STATION	1	2	3	4 (P.G.)	5	6	7
BEGIN SLAB	14+10.70	—	—	—	—	—	—	386.63
BEGIN SLAB	14+13.69	—	—	—	—	—	386.64	386.80
BEGIN SLAB	14+15.07	—	—	—	—	386.88	386.72	386.89
BEGIN SLAB	14+18.85	—	—	—	387.32	387.10	386.94	387.11
	14+20.00	—	—	—	387.39	387.17	387.01	387.18
BEGIN SLAB	14+22.64	—	—	387.33	387.55	387.33	387.17	387.33
BEGIN SLAB	14+24.02	—	387.25	387.41	387.63	387.41	387.25	387.41
BEGIN SLAB	14+27.01	387.59	387.42	387.58	387.80	387.58	387.42	387.59
	14+30.00	387.77	387.60	387.76	387.98	387.76	387.60	387.77
	14+40.00	388.36	388.19	388.35	388.57	388.35	388.19	388.36
	14+50.00	388.95	388.78	388.94	389.16	388.94	388.78	388.95
	14+60.00	389.54	389.37	389.53	389.75	389.53	389.37	389.54
	14+70.00	390.13	389.96	390.12	390.34	390.12	389.96	390.13
	14+80.00	390.72	390.55	390.71	390.93	390.71	390.55	390.72
	14+90.00	391.31	391.14	391.30	391.52	391.30	391.14	391.31
	15+00.00	391.90	391.73	391.89	392.11	391.89	391.73	391.90
	15+10.00	392.49	392.32	392.48	392.70	392.48	392.32	392.49
	15+20.00	393.08	392.91	393.07	393.29	393.07	392.91	393.08
	15+30.00	393.67	393.50	393.66	393.88	393.66	393.50	393.67
	15+40.00	394.26	394.09	394.25	394.47	394.25	394.09	394.26
	15+50.00	394.85	394.68	394.84	395.06	394.84	394.68	394.85
	15+60.00	395.44	395.27	395.43	395.65	395.43	395.27	395.44
	15+70.00	396.03	395.86	396.02	396.24	396.02	395.86	396.03
	15+80.00	396.62	396.45	396.61	396.83	396.61	396.45	396.62
	15+90.00	397.21	397.04	397.20	397.42	397.20	397.04	397.21
	16+00.00	397.80	397.63	397.79	398.01	397.79	397.63	397.80
	16+10.00	398.39	398.22	398.38	398.60	398.38	398.22	398.39
	16+20.00	398.98	398.81	398.97	399.19	398.97	398.81	398.98
	16+30.00	399.57	399.40	399.56	399.78	399.56	399.40	399.57
	16+40.00	400.16	399.99	400.15	400.37	400.15	399.99	400.16
	16+50.00	400.75	400.58	400.74	400.96	400.74	400.58	400.75
	16+60.00	401.34	401.17	401.33	401.55	401.33	401.17	401.34
	16+70.00	401.93	401.76	401.92	402.14	401.92	401.76	401.93
	16+80.00	402.52	402.35	402.51	402.73	402.51	402.35	402.52
	16+90.00	403.11	402.94	403.10	403.32	403.10	402.94	403.11
	17+00.00	403.70	403.53	403.69	403.91	403.69	403.53	403.70
	17+10.00	404.27	404.10	404.26	404.48	404.26	404.10	404.27
	17+20.00	404.76	404.59	404.75	404.97	404.75	404.59	404.76
	17+30.00	405.16	404.99	405.15	405.37	405.15	404.99	405.16
	17+40.00	405.49	405.32	405.48	405.70	405.48	405.32	405.49
	17+50.00	405.73	405.56	405.72	405.94	405.72	405.56	405.73
	17+60.00	405.89	405.72	405.88	406.10	405.88	405.72	405.89
	17+70.00	405.97	405.80	405.96	406.18	405.96	405.80	405.97
	17+80.00	405.97	405.80	405.96	406.18	405.96	405.80	405.97
	17+90.00	405.88	405.71	405.87	406.09	405.87	405.71	405.88
	18+00.00	405.72	405.55	405.71	405.93	405.71	405.55	405.72
END SLAB	18+07.99	405.52	405.35	405.51	405.73	405.51	405.35	405.52
	18+10.00	405.47	405.30	405.46	405.68	405.46	405.30	—
END SLAB	18+10.98	405.44	405.27	405.43	405.65	405.43	405.27	—
END SLAB	18+12.36	405.40	405.23	405.39	405.61	405.39	—	—
END SLAB	18+16.15	405.27	405.10	405.26	405.48	—	—	—
END SLAB	18+19.93	405.14	404.97	405.13	—	—	—	—
	18+20.00	405.14	404.97	405.13	—	—	—	—
END SLAB	18+21.31	405.09	404.92	—	—	—	—	—
END SLAB	18+24.30	405.19	—	—	—	—	—	—

TABLE OF DECK ELEVS. @ ℄ GIRDER TENTH POINTS

		GIRDER 1	GIRDER 2	GIRDER 3	GIRDER 4	GIRDER 5	GIRDER 6	GIRDER 7
℄ BRG. ABUT. 1		387.51	387.34	387.39	387.39	387.11	386.79	386.68
SPAN 1	0.1	388.07	387.90	387.95	387.95	387.67	387.35	387.24
	0.2	388.63	388.46	388.51	388.51	388.23	387.91	387.80
	0.3	389.19	389.02	389.07	389.07	388.80	388.47	388.37
	0.4	389.75	389.58	389.63	389.63	389.36	389.03	388.93
	0.5	390.31	390.14	390.19	390.19	389.92	389.59	389.49
	0.6	390.87	390.70	390.75	390.75	390.48	390.15	390.05
	0.7	391.43	391.26	391.31	391.31	391.04	390.71	390.61
	0.8	391.99	391.83	391.87	391.87	391.60	391.28	391.17
	0.9	392.56	392.39	392.43	392.43	392.16	391.84	391.73
℄ BRG. PIER 1		393.12	392.95	393.00	392.99	392.72	392.40	392.29
SPAN 2	0.1	393.71	393.54	393.59	393.58	393.31	392.99	392.88
	0.2	394.30	394.13	394.18	394.17	393.90	393.58	393.47
	0.3	394.89	394.72	394.77	394.76	394.49	394.17	394.06
	0.4	395.48	395.31	395.36	395.35	395.08	394.76	394.65
	0.5	396.07	395.90	395.95	395.94	395.67	395.35	395.24
	0.6	396.66	396.49	396.54	396.53	396.26	395.94	395.83
	0.7	397.25	397.08	397.13	397.12	396.85	396.53	396.42
	0.8	397.84	397.67	397.72	397.71	397.44	397.12	397.01
	0.9	398.43	398.26	398.31	398.30	398.03	397.71	397.60
℄ BRG. PIER 2		399.02	398.85	398.90	398.89	398.62	398.30	398.19
SPAN 3	0.1	399.61	399.44	399.49	399.48	399.21	398.89	398.78
	0.2	400.20	400.03	400.08	400.07	399.80	399.48	399.37
	0.3	400.79	400.62	400.67	400.66	400.39	400.07	399.96
	0.4	401.38	401.21	401.26	401.25	400.98	400.66	400.55
	0.5	401.97	401.80	401.85	401.84	401.57	401.25	401.14
	0.6	402.56	402.39	402.44	402.43	402.16	401.84	401.73
	0.7	403.15	402.98	403.03	403.02	402.75	402.43	402.32
	0.8	403.74	403.57	403.62	403.61	403.34	403.02	402.91
	0.9	404.29	404.14	404.20	404.20	403.93	403.61	403.50
℄ BRG. PIER 3		404.76	404.63	404.71	404.73	404.48	404.17	404.08
SPAN 4	0.1	405.16	405.04	405.14	405.18	404.95	404.66	404.59
	0.2	405.46	405.37	405.49	405.55	405.33	405.07	405.01
	0.3	405.69	405.61	405.75	405.83	405.64	405.39	405.35
	0.4	405.84	405.78	405.93	406.03	405.86	405.63	405.61
	0.5	405.90	405.86	406.03	406.15	406.00	405.79	405.79
	0.6	405.88	405.86	406.05	406.19	406.06	405.86	405.88
	0.7	405.78	405.78	405.99	406.15	406.03	405.86	405.90
	0.8	405.59	405.61	405.84	406.02	405.92	405.77	405.83
	0.9	405.33	405.37	405.62	405.81	405.73	405.60	405.68
℄ BRG. ABUT. 2		404.98	405.04	405.31	405.52	405.46	405.35	405.44

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TOP OF DECK ELEVATIONS

COMMONWEALTH OF PENNSYLVANIA PROFESSIONAL ENGINEER PAUL PETER MASADOS, JR. PE058953

RECOMMENDED 10/20/2025

L-435

DES: PPN | DWG: KSB/DSF | CKD: PPN

FILE NAME: P:\0037\003721_0429\Microstation\BRIDGE\B3721_0429 10 pts.dgn
PLOTTED: 7/14/2025 6:18:35 PM pmasados
PEN TABLE: $PENTBLS$
PLOT DRIVER: $PLTDRVL$

SUPERSTRUCTURE

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EC401	4	112	58'-6"	STR					
EC502	5	792	6'-8"	STR					
EC503	5	4	3'-9"	STR					
EC504	5	4	7'-0"	STR					
EC505	5	96	52'-9"	STR					
EC606	6	64	53'-6"	STR					
EC407	4	840	8'-0⅛"	21	2'-9½"	4"	3⅜"	3⅝"	E=2'-7¾", F=4⅛", G=6¾" H=5", J=3⅜", R=2"
EC408	4	20	5'-11"	37	2'-0"	1'-7"	2'-0"	2"	E=1'-0⅞", F=1'-0⅞"
EC509	5	8	5'-5⅝"	33	2'-10"	5½"	4½"	3⅝"	E=1'-6", F=0", G=0"
EC510	5	16	6'-0⅝"	33	2'-10"	5½"	11½"	3⅝"	E=1'-6", F=0", G=0"
ES501	5	693	59'-4"	STR					
ES402	4	686	58'-10"	STR					
ES503	5	763	48'-5"	2	8"	47'-1"	8"		
ES504	5	1572	9'-6"	STR					
ES505	5	573	47'-1"	STR					
ES506	5	62	VARIES 46'-11" TO 3'-5"	2	8"	VARIES 45'-7" TO 2'-1"	8"		VARY 2 EA BY 1'-5½"
ES507	5	46	VARIES 45'-2" TO 2'-6"	STR					VARY 2 EA BY 1'-11¼"
ES608	6	8	49'-9"	STR					
ES609	6	24	6'-10"	STR					
ES410	4	72	3'-9"	10	1'-6"	8"	11"	8"	
ES511	5	794	7'-2½"	5	3'-0"	1'-2½"	3'-0"		
ES512	5	796	7'-1½"	31	3'-0"	1'-1½"	3'-0"	0"	
ES413	4	840	6'-3½"	22	1'-9"	4"	4"	2¾"	E=1'-11", F=2¾", G=1'-0", J=10⅜", R=2"
ES414	4	24	8'-2"	27	3'-10"	5½"	4'-0"	0"	E=0"
ES415	4	8	5'-11"	37	2'-0"	1'-7"	2'-0"	2"	E=1'-0⅞", F=1'-0⅞", R=2"

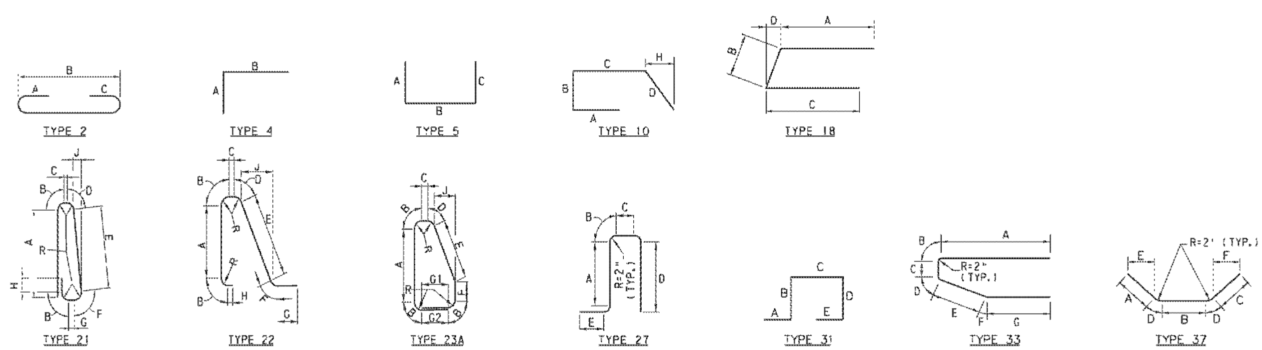
APPROACH SLABS

MARK	SIZE	NUMBER		LENGTH	TYPE	A	B	C	D	REMARKS
		NEAR	FAR							
ESS501	5	14	14	31'-3"	STR					
ESS802	8	62	62	4'-9"	STR					
EAS1001	10	41	41	24'-6"	STR					
EAS502	5	31	31	24'-6"	STR					
EAS503	5	62	62	6'- 4½"	5	2'-9"	10½"	2'-9"		
EAS604	6	27	27	31'-3"	STR					
EAS505	5	27	27	31'-3"	STR					

MOMENT AND SIDEWALK SLABS

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EMS401	4	10	24'-11"	STR					
EMS402	4	5	31'-1"	STR					
EMS403	4	28	VARIES 24'-8" TO 23'-8"	STR					VARY EA BY 2"
EMS404	4	14	VARIES 33'-5" TO 31'-5"	STR					VARY EA BY 4"
EMS505	5	352	12'-2"	10	2'-6"	7"	8'-2"	1'-0"	H=0"
EMS506	5	8	VARIES 9'-4" TO 7'-4"	10	2'-6"	7"	VARIES 6'-2" TO 4'-3"	0"	H=0", VARY 2 EA C BY 1'-11"
EMS507	5	352	9'-2"	4	1'-10"	7'-4"			
EMS508	5	8	VARIES 7'-0" TO 5'-0"	4	1'-10"	VARIES 5'-2" TO 3'-2"			H=0", VARY 2 EA B BY 2'-0"
EMS509	5	331	8'-11¾"	23A	2'-6"	4"	4"	2¾"	E=1'-2", F=1'-1", G1=2'-8", G2=0", J=10⅜", R=2"
EMS410	4	236	8'-0⅛"	21	2'-9½"	4"	3⅜"	3⅝"	E=2'-7¾", F=4⅛", G=6¾", H=5", J=3⅜", R=2"
EMS411	4	52	VARIES 8'-0⅛" TO 5'-11⅝"	21	VARIES 2'-9½" TO 9"	4"	3⅜"	3⅝"	E=VARIES 2'-7¾" TO 7¼", F=4⅛", G=6¾", H=5", J=3⅜", R=2", VARY EA A AND E BY 3½"
EMS612	6	2	33'-11"	18	21'-8"	12'-3"	0"	11'-10"	
EMS613	6	2	34'-5"	18	22'-2"	12'-3"	0"	11'-10"	
EMS514	5	6	33'-5"	STR					BEND IN FIELD AS NEEDED
EMS615	6	4	25'-0"	STR					
EMS616	6	4	24'-9"	18	12'-6"	12'-3"	0"	11'-10"	
EMS517	5	16	24'-0"	STR					BEND IN FIELD AS NEEDED
EMS418	4	10	37'-0"	STR					
EMS419	4	10	45'-0"	STR					
EMS420	4	28	VARIES 37'-0" TO 38'-0"	STR					VARY EA BY 2"
EMS421	4	28	VARIES 43'-9" TO 44'-9"	STR					VARY EA BY 2"
EMS622	6	4	33'-3"	STR					
EMS623	6	4	45'-6"	18	33'-3"	12'-3"	0"	11'-10"	
EMS524	5	16	38'-10"	STR					BEND IN FIELD AS NEEDED
EMS625	6	4	44'-2"	STR					
EMS626	6	16	44'-3"	STR					BEND IN FIELD AS NEEDED
EMS427	4	92	45'-7"	STR					
EMS528	5	308	12'-5"	10	2'-6"	7"	8'-4"	1'-1"	H=0"
EMS529	5	346	4'-5"	4	1'-11"	2'-6"			
EMS530	5	308	8'-4"	4	1'-1"	7'-3"			
EMS531	5	38	VARIES 12'-7" TO 9'-7"	10	2'-6"	7"	VARIES 8'-5" TO 9'-6"	1'-1"	H=0", VARY C BY ⅜"
EMS532	5	38	VARIES 8'-5" TO 9'-6"	4	1'-1"	VARIES 7'-4" TO 8'-5"			VARY B BY ⅜"
EMS433	4	38	24'-8"	STR					

- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- PREFIX "E" DENOTES EPOXY-COATED BARS.



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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
REINF. BAR SCHEDULE-SUPER. & SLABS

PAUL PETER NASADOS, JR. — PROFESSIONAL ENGINEER — PE056853

RECOMMENDED 10/20/2025

SHEET 49 OF 63

L-435

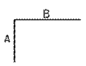
DES: TJC DWG: DSF CKD: PPN

FILE NAME: P:\0037\003721_0429\Microstation\BRIDGE\B3721_0429-REBAR SCH.dgn
PLOTTED: 7/17/2025 6:23:02 PM pnasados
PEN TABLE: $PENTBL$
PLOT DRIVER: $PLTDRV$

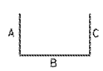
ABUTMENT 1									
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF800	8	11	3'-0"	STR					
EF601	6	24	28'-6"	STR					
EF6C2	6	24	28'-0"	STR					
EF503	5	8	28'-0"	STR					
EF504	5	164	11'-3"	5	2'-5"	6'-5"	2'-5"		
EF505	5	164	5'-6"	STR					
EA406	4	21	3'-2"	STR					
EA407	4	21	6'-9"	5	2'-2"	2'-5"	2'-2"		
EA508	5	164	VARIES 6'-5" TO 7'-1"	4	VARIES 4'-9" TO 5'-5"	1'-8"			
EA509	5	20	26'-3"	STR					
EA510	5	71	7'-1"	5	3'-1"	11"	3'-1"		
EA411	4	4	31'-5"	STR					
EA612	6	6	6'-0"	STR					

ABUTMENT 2									
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF5410	5	17	28'-3"	STR					
EF5411	5	17	28'-3"	STR					
EF6412	6	114	15'-5"	STR					
EF5413	5	114	15'-5"	STR					
EF4414	4	75	2'-8"	17	4½"	1'-11"	4½"		
EF9415	9	139	6'-6"	13	1'-3"	5'-3"	11¾"		
EF5416	5	69	5'-3"	STR					
EF6450	6	758	25'-6"	STR					
EF6451	6	96	VARIES 18'-2" TO 34'-2"	STR					VARY 2 EA BY 4"
EF6452	6	30	VARIES 43'-10" TO 3'-2"	STR					VARY 2 EA BY 2'-10 ⅞"
EF4553	4	673	3'-2"	17	4½"	2'-5"	4½"		
EF6454	6	192	34'-5"	STR					
EF6455	6	192	36'-4"	STR					
EF6456	6	2	24'-9"	STR					
EF6457	6	50	VARIES 25'-6" TO 26'-8"	STR					VARY 2 EA BY ⅝"
EF5490	5	40	14'-8"	STR					
EF5491	5	30	VARIES 9'-6" TO 10'-2"	STR					VARY EA BY ½"
EF5492	5	32	VARIES 8'-4" TO 7'-2"	STR					VARY 2 EA BY ⅞"
EF5493	5	64	7'-2"	4	4'-5"	2'-9"			
EA9417	9	102	20'-1"	STR					
EA5418	5	52	19'-10"	STR					
EA5419	5	84	7'-0"	5	3'-1"	10"	3'-1"		
EA5420	5	204	VARIES 8'-1" TO 8'-8"	STR	VARIES 6'-6" TO 7'-1"	1'-7"			VARY 2 EA BY ⅞"
EA4421	4	4	31'-5"	STR					
EA4422	4	21	3'-2"	STR					
EA4423	4	21	5'-8"	5	1'-9"	2'-2"	1'-9"		
EA5424	5	24	26'-3"	STR					
EA5425	5	88	26'-3"	STR					
EA6426	6	6	6'-0"	STR					
EW9430	9	36	26'-3"	STR					
EW5431	5	20	26'-3"	STR					
EW5432	5	224	10'-7"	13	7"	10'-0"	5"		
EW5433	5	112	7'-10"	STR					
EW5434	5	56	3'-0"	STR					

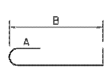
- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- PREFIX "E" DENOTES EPOXY-COATED BARS.



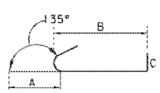
TYPE 4



TYPE 5



TYPE 13



TYPE 17

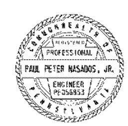
Mark	Description	By	Chk'd.	Recm'd.	Date
REVISIONS					

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE

REINF. BAR SCHEDULE-ABUTMENTS



RECOMMENDED 10/20/2025

SHEET 50 OF 63

L-435

DES: TJC | DWG: DSF | CKD: PPN

PIER 1

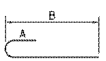
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF5101	5	26	54'-6"	STR					
EF5102	5	38	11'-6"	STR					
EF6103	6	110	11'-6"	STR					
EF4104	4	60	3'-2"	17	4½"	2'-5"	4½"		
EF6105	6	178	6'-10"	1	8"	6'-2"			
EP6101	6	96	14'-2"	STR					
EP4102	4	64	12'-9"	38	3'-0"	3'-0"	3'-0"	3'-0"	E=4½"
EP4103	4	64	9'-5"	38	2'-2"	2'-2"	2'-2"	2'-2"	E=4½"
EP10104	10	5	36'-9"	STR					
EP10105	10	5	48'-4"	STR					
EP10106	10	5	60'-0"	5	2'-9"	54'-6"	2'-9"		
EP5107	5	10	54'-6"	STR					
EP5108	5	72	12'-11"	38	2'-4"	3'-8"	2'-4"	3'-8"	E=5½"
EP5109	5	96	8'-10"	5	3'-3"	2'-4"	3'-3"		
EP5110	5	48	VARIES 9'-4" TO 7'-8"	5	VARIES 3'-6" TO 2'-8"	2'-4"	VARIES 3'-6" TO 2'-8"		VARY C & D 4 EA BY 2"
EP5111	5	35	7'-4"	5	2'-7"	2'-2"	2'-7"		
EP5112	5	28	8'-4"	5	2'-7"	3'-2"	2'-7"		
EP10113	10	5	56'-10"	2	1'-5"	54'-0"	1'-5"		
EP10114	10	10	15'-9"	3	4'-11"	10'-10"			H=11½"
EP5115	5	4	7'-8"	3	2'-1"	3'-6"	2'-1"		
EP4116	4	5	11'-5"	38	3'-2"	2'-2"	3'-2"	2'-2"	E=4½"
EP6117	6	356	15'-9"	STR					
EP4118	4	58	25'-11½"	26	4½"	25'-7"	0"		
EP4119	4	406	3'-9"	17	4½"	3'-0"	4½"		
EP4120	4	58	9'-5½"	25	2'-0"	4'-8½"	2'-0"	4½"	R=1'-6"
EP4121	4	58	28'-6½"	26	28'-2"	4½"	0"		
EP6122	6	96	6'-0"	STR					

PIER 2

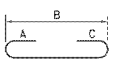
MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF5201	5	26	54'-6"	STR					
EF5202	5	38	11'-6"	STR					
EF6203	6	110	11'-6"	STR					
EF4204	4	60	3'-2"	17	4½"	2'-5"	4½"		
EF6205	6	178	6'-10"	1	8"	6'-2"			
EP6201	6	96	20'-1"	STR					
EP4202	4	92	12'-9"	38	3'-0"	3'-0"	3'-0"	3'-0"	E=4½"
EP4203	4	92	9'-5"	38	2'-2"	2'-2"	2'-2"	2'-2"	E=4½"
EP10204	10	5	36'-9"	STR					
EP10205	10	5	48'-4"	STR					
EP10206	10	5	60'-0"	5	2'-9"	54'-6"	2'-9"		
EP5207	5	10	54'-6"	STR					
EP5208	5	72	12'-11"	38	2'-4"	3'-8"	2'-4"	3'-8"	E=5½"
EP5209	5	96	8'-10"	5	3'-3"	2'-4"	3'-3"		
EP5210	5	48	VARIES 9'-4" TO 7'-8"	5		2'-4"			VARY C & D 4 EA BY 2"
EP5211	5	35	7'-4"	5	2'-7"	2'-2"	2'-7"		
EP5212	5	28	8'-4"	5	2'-7"	3'-2"	2'-7"		
EP10213	10	5	56'-10"	2	1'-5"	54'-0"	1'-5"		
EP10214	10	10	15'-9"	3	4'-11"	10'-10"			H=11½"
EP5215	5	4	7'-8"	3	2'-1"	3'-6"	2'-1"		
EP4216	4	5	11'-5"	38	3'-2"	2'-2"	3'-2"	2'-2"	E=4½"
EP6217	6	356	13'-4"	STR					
EP4218	4	48	25'-11½"	26	4½"	25'-7"	0"		
EP4219	4	336	3'-9"	17	4½"	3'-0"	4½"		
EP4220	4	48	9'-5½"	25	2'-0"	4'-8½"	2'-0"	4½"	R=1'-6"
EP4221	4	48	28'-6½"	26	28'-2"	4½"	0"		
EP6222	6	96	6'-0"	STR					

PIER 3

MARK	SIZE	NUMBER	LENGTH	TYPE	A	B	C	D	REMARKS
EF5301	5	56	11'-6"	STR					
EF6302	6	110	12'-10"	2	8"	11'-6"	8"		
EF5303	5	13	54'-6"	STR					
EF11304	11	62	54'-6"	STR					
EF4305	4	1258	3'-2"	17	4½"	2'-5"	4½"		
EF6306	6	96	6'-10"	1	8"	6'-2"			
EP6301	6	96	22'-4"	STR					
EP4302	4	100	12'-9"	38	3'-0"	3'-0"	3'-0"	3'-0"	E=4½"
EP4303	4	100	9'-5"	38	2'-2"	2'-2"	2'-2"	2'-2"	E=4½"
EP10304	10	5	36'-9"	STR					
EP10305	10	5	48'-4"	STR					
EP10306	10	5	60'-0"	5	2'-9"	54'-6"	2'-9"		
EP5307	5	10	54'-6"	STR					
EP5308	5	72	12'-11"	38	2'-4"	3'-8"	2'-4"	3'-8"	E=5½"
EP5309	5	96	8'-10"	5	3'-3"	2'-4"	3'-3"		
EP5310	5	48	VARIES 9'-4" TO 7'-8"	5		2'-4"			VARY C & D 4 EA BY 2"
EP5311	5	35	7'-2"	5	2'-6"	2'-2"	2'-6"		
EP5312	5	28	8'-2"	5	2'-6"	3'-2"	2'-6"		
EP10313	10	5	56'-10"	2	1'-5"	54'-0"	1'-5"		
EP10314	10	10	15'-9"	3	4'-11"	10'-10"			H=11½"
EP5315	5	4	7'-8"	3	2'-1"	3'-6"	2'-1"		
EP4316	4	5	11'-5"	38	3'-2"	2'-2"	3'-2"	2'-2"	E=4½"



TYPE 1



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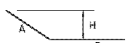
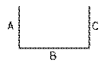
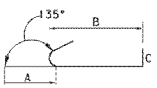


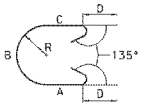
TYPE 3



TYPE 5



TYPE 17



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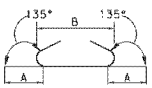

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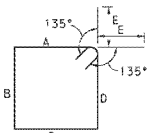


TYPE 38

- FOR REINFORCEMENT BAR FABRICATION DETAILS, REFER TO STANDARD DRAWING BC-736M.
- PREFIX "E" DENOTES EPOXY-COATED BARS.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
REINF. BAR SCHEDULE-PIERS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL ENGINEER PAUL PETER MASADO, JR. ENGINEER PE-258953

RECOMMENDED 10/20/2025

SHEET 51 OF 63

L-435

DES: TJC | DWG: DSF | CKD: PPN

FILE NAME: P:\0037\00372_0429\Microstation\BRIDGE\B372-0429-REBAR SCH.dgn
PLOTTED: 9/24/2025 9:40:05 AM
PEN TABLE: file_date.tbl
PLOT DRIVER: \STS - Microstation\Bridge\pdf_bw_full_plot.rfg

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

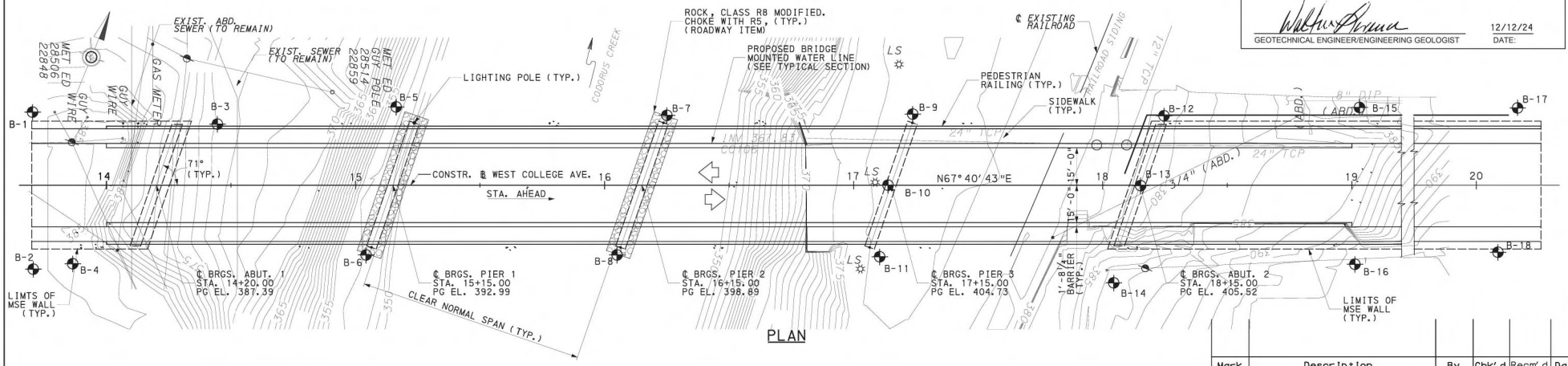
LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

GEOTECHNICAL ENGINEER/ENGINEERING GEOLOGIST — DATE: 12/12/24



PLAN

AS DRILLED CORE BORING LOCATIONS

BORING NO.	STATION	OFFSET	BORING NO.	STATION	OFFSET
B-1	13+70	29.3′ LT.	B-11	17+10	28.7′ RT.
B-2	13+70	33.7′ RT.	B-12	18+25	28′ LT.
B-3	14+44	24.5′ LT.	B-13	18+15.2	0.2′ RT.
B-4	13+86	31.5′ RT.	B-14	18+04	39.2′ RT.
B-5	15+16	31.5′ LT.	B-15	19+03	31.0′ LT.
B-6	15+04	28.0′ RT.	B-16	19+01	31.7′ RT.
B-7	16+25	28′ LT.	B-17	20+16	31.0′ LT.
B-8	16+05	28′ RT.	B-18	20+08	27′ RT.
B-9	17+24	28.5′ LT.			
B-10	17+14	00′ RT.			

OFFSETS ARE FROM SURVEY & CONSTR. ℄ WEST COLLEGE AVE.

SHEET GRAPHIC SCALE
10 0 10 20 FEET

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PROFESSIONAL ENGINEER — DATE: 12/12/24

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

RECOMMENDED 10/20/2025

SHEET 52 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $USER$
PLOTTED: $$$$DATE$$$$ $$TIME$$$
PEN TABLE: $PENTBL$
PLOT DRIVER: $PLTDRVR$

SUBSTRUCTURE UNIT:
ABUTMENT 1

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/11/2023 10:20 AM	HAMMER: AUTOMATIC
B-1	STATION: 13+69.4 OFFSET: 30.4 FT. LT.	FINISH: 05/11/2023 1:20 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	383.6 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 348.6 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 349.5 ft. - 138.4 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.*	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
		TOPSOIL. 0.2'/El. 383.4	a-2-4 / sm	1.5	S-1	2-4-4	11	1.2	80	
		SAND, little Gravel, little Silt, trace Clay, loose, damp, heterogeneous, poorly graded, angular, low plastic fines, dark brown, fill, *a-2-4, sm*	a-6 / cl	3.0	S-2	2-3-3	8	0.9	60	
		Traces of Granulated Slag. 1.5'/El. 382.1		4.5	S-3	3-2-3	7	0.2	13	
		CLAY, some Silt, little Sand, trace Gravel, medium, damp, heterogeneous, poorly graded, medium plastic fines, orange brown, fill, *a-6, cl.*	a-2-4 / sm	6.0	S-4	3-4-29	44	1.0	67	
		5.5'/El. 378.1		6.1	S-5 / A-1	50/.1'	>67	0.1	100	
		SAND, little Gravel, little Silt, trace Clay, loose to very dense, wet, heterogeneous, poorly graded, angular, low plastic fines, dark brown gray, fill, *a-2-4, sm*	A-1-b / SM	7.5	S-6	3-5-5	13	1.0	67	
		Reacts With HCL; Possible Slag Content		9.0	S-7	2-3-3	8	0.9	60	
		Obstruction @ 6.0'. 9.0'/El. 374.6		10.5	S-8	4-3-4	9	0.8	53	
		GRAVEL, some Sand, little Silt, little Clay, very loose to loose, wet, heterogeneous, poorly graded, angular, medium plastic fines, brown to red brown, fill, *a-1-b, sm*		12.0	S-9	2-1-1	3	0.6	40	
		Abundant Brick Fragments. 16.5'/El. 367.1	a-6 / cl	13.5	S-10	1-1-1	3	0.0	0	
		CLAY, some Sand, little Silt, little Gravel, soft to medium, wet, heterogeneous, poorly graded, angular, medium plastic fines, orange brown, fill, *a-6, cl.*	a-2-6 / sc	15.0	S-11	1-1-1	3	1.0	67	
		19.5'/El. 364.1		16.5	S-12	1-2-5	9	0.6	40	
		SAND, some Gravel, little Clay, little Silt, very loose to loose, wet, heterogeneous, poorly graded, angular, medium plastic fines, brown and gray, fill, *a-2-6, sc.*	a-6 / cl	18.0	S-13	2-2-2	5	1.5	100	
		24.0'/El. 359.6		19.5	S-14	5-2-2	5	0.9	60	
		CLAY, some Silt, little Sand, medium, moist, homogeneous, poorly graded, medium plastic fines, brown, alluvium, *a-6, cl*	a-2-6 / gc	21.0	S-15	1-1-2	4	0.9	60	
		Traces of Well Rounded Pebbles. 27.0'/El. 356.6		22.5	S-16	3-3-4	9	0.7	47	
		GRAVEL, some Sand, little Clay, little Silt, medium cense, wet, homogeneous, poorly graded, rounded, medium plastic fines, orange brown, alluvium, *a-2-6, gc*		24.0	S-17	2-2-3	7	1.2	80	
		Includes Well Rounded Quartz Gravel. 33.0'/El. 350.6	a-2-6 / gc	25.5	S-18	2-2-3	7	0.0	0	
		GRAVEL, little Sand, little Clay, trace Silt, medium dense to very dense, wet, poorly graded, angular, low plastic fines, dark gray, residuum, *a-2-6, gc*		27.0	S-19	10-10-6	21	0.5	33	
		Decomposed Limestone/Calcareous Shale. 36.0'/El. 347.6		28.5	S-20	3-6-8	19	0.5	33	
		LIMESTONE, light gray to dark gray, mineral veins, medium hard to hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, close to moderate spacing, steep dip, tight joints,		30.0	S-21	9-11-10	28	1.2	80	
		Bedding RD=35-40°		31.5	S-22	9-9-7	21	1.1	73	
		Mineral Veins Consist of Calcite Veins in Random Orientation		33.0	S-23	9-10-17	36	1.2	80	
		Vertical Joint/Fracture With Orange Stains From 40.0-40.6'		34.5	S-24 / A-2	50/.3'	>67	0.3	100	
		(RQD=56%). 46.0'/El. 337.6		36.0	S-25 / R-1	50/.0'	>67 / 0%	0.0 / 1.8	0 / 90	
				38.0	R-2		48%	3.7	92	
				42.0	R-3		92%	4.0	100	

TOLP 377.00
TOR 347.60

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT:
ABUTMENT 1

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/10/2023 1:30 PM	HAMMER: AUTOMATIC
B-2	STATION: 13+70.6 OFFSET: 33.4 FT. RT.	FINISH: 05/11/2023 9:50 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	383.9 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 349.3 ft.- - 20.8 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 349.7 ft. - 141.9 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.**	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
		TOPSOIL. 0.2'/El. 383.7		1.5	S-1	3-4-4	11	1.0	67	
		GRAVEL, some Sand, little Clay, little Silt, loose to medium dense, damp, heterogeneous, poorly graded, angular, medium plastic fines, brown and gray, fill, *a-2-6, gc*	a-2-6 / gc	3.0	S-2	12-7-4	15	0.6	40	
		Includes Rounded Quartz Gravel, Concrete Fragments, Etc. 6.0'/El. 377.9		4.5	S-3	5-5-3	11	0.7	47	
		GRAVEL and **SAND**, little Clay, little Silt, very loose to loose, wet, heterogeneous, poorly graded, angular, medium plastic fines, brown, fill, *a-2-6, gc*	a-2-6 / gc	6.0	S-4	1-4-3	9	1.0	67	
		Includes Traces of Concrete. 10.5'/El. 373.4		7.5	S-5	3-2-3	7	1.1	73	
		GRAVEL, some Sand, little Silt, trace Clay, very loose to medium dense, wet, heterogeneous, poorly graded, low plastic fines, dark brown to dark gray, fill, *a-2-4, sm*		9.0	S-6	2-2-2	5	0.7	47	
		Includes Cinders, Traces of Coal Fines, Etc.		10.5	S-7	WOH-WOH-1	1	0.4	27	
		25.0'/El. 358.9	A-2-4 / SC-SM	12.0	S-8	2-2-2	5	0.9	60	
		CLAY, some fine Sand, little Silt, trace Gravel, soft to stiff, wet, homogeneous, poorly graded, rounded, medium plastic fines, brown, alluvium, *a-6, cl*		13.5	S-9	WOH-1-2	4	0.6	40	
		Well Rounded Pebbles Present. 28.5'/El. 355.4	a-6 / cl	15.0	S-10	2-3-2	7	0.7	47	
		GRAVEL, some Sand, little Silt, trace Clay, medium dense to dense, wet, homogeneous, poorly graded, rounded, orange brown, alluvium, *a-2-4, gm*		16.5	S-11	3-2-3	7	0.9	60	
		Well Rounded Quartz Gravel Present. 33.0'/El. 350.9	a-2-4 / gm	18.0	S-12	2-2-2	5	0.5	33	
		GRAVEL, little Sand, little Clay, little Silt, medium dense to very dense, wet, fissured, poorly graded, angular, medium plastic fines, dark gray, *a-2-6, gc*		19.5	S-13	2-1-2	4	0.8	53	
		Decomposed Limestone/Calcareous Shale. 39.0'/El. 344.9	a-2-6 / gc	21.0	S-14	1-2-1	4	0.6	40	
		LIMESTONE, light gray to dark gray, mineral veins, medium hard to hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, close to moderate spacing, steep dip, tight joints,		22.5	S-15	4-6-3	12	0.3	20	
		Mineral Veins Consist of Calcite Veins in Random Orientation		24.0	S-16	2-3-2	7	0.6	40	
		Light and Dark Gray Color Consist of Beds of Limestone (Light Gray) and CAlcareous Shale Beds (Dark Gray)		25.5	S-17	5-5-5	13	1.1	73	
		In General Limestone Beds are Hard; Shale Beds are Medium Hard		27.0	S-18	WOH-1-2	4	1.2	80	
		Bedding RD=30-45°		28.5	S-19	1-3-6	12	1.1	73	
		Thin Vuggy Area From 46.0-46.2'		30.0	S-20	7-15-17	43	1.0	67	
		(RQD=37%). 49.0'/El. 334.9		31.5	S-21	10-10-6	21	0.3	20	
				33.0	S-22	7-14-13	36	0.9	60	
				34.5	S-23	7-12-7	25	1.1	73	
				36.0	S-24	10-11-15	35	1.1	73	
				37.5	S-25	7-14-12	35	0.8	53	
				38.8	S-26	4-5-50/.3'	73	0.8	62	
				39.0	A-1 / S-27 / R-1	50/.0'	>67 / 40%	0.0 / 2.0	0 / 100	
				41.0	R-2		36%	5.0	100	
				46.0	R-3		37%	3.0	100	

TOLP 377.00
TOR 344.90

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BCCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

REVISIONS

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 53 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $$USER$$
PLOTTED: $$$DATE$$$ $$TIME$$
PEN TABLE: $PENTBLS$
PLOT DRIVER: $PLTDRVR$

SUBSTRUCTURE UNIT:
ABUTMENT 1

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/15/2023 10:00 AM	HAMMER: AUTOMATIC
B-3	STATION: 14+36.0 OFFSET: 28.3 FT. LT.	FINISH: 05/15/2023 1:30 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	374.3 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 349.3 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 349.3 ft. - 89.8 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.*	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
370		**GRAVEL** and **SILT**, some Sand, little Clay, loose to medium dense, damp to wet, heterogeneous, poorly graded, angular, medium plastic fines, dark brown, fill, *a--6, cl*		1.5	S-1	2-3-8	15	1.0	67	
		Slightly Calcareous in Part		3.0	S-2	3-3-3	8	0.6	40	
		Includes Granulated Slag, Cinders, Brick Fragments and Concrete Fragments		4.5	S-3	4-4-6	13	0.3	20	
		Very Dense From 10.5-11.8'; Likely Cobbles/Boulders Present.	A-6 / CL	6.0	S-4	5-5-5	13	0.9	60	
TOLP 367.00				7.5	S-5	3-3-4	9	1.0	67	
365				9.0	S-6	3-3-5	11	1.3	87	
				10.5	S-7	6-10-7	23	0.9	60	
				11.8	S-8	3-40-50/.3'	120	0.6	46	
		15.0'/El. 359.3		12.0	A-1					
360		**CLAY**, some Silt, little Sand, little Gravel, medium to very stiff, wet, homogeneous, poorly graded, rounded, medium plastic fines, brown to orange brown, alluvium, *a-6, cl*		13.5	S-9	3-3-3	8	1.0	67	
		Occasional Rounded Pebbles.	a-6 / cl	15.0	S-10	3-3-4	9	1.0	67	
		19.5'/El. 354.8		16.5	S-11	4-2-4	8	1.1	73	
		GRAVEL and **SAND**, little Silt, trace Clay, dense, damp to wet, homogeneous, poorly graded, rounded, low plastic fines, orange brown, alluvium, *a-2-4, gm*	a-2-4 / gm	18.0	S-12	3-2-2	5	0.9	60	
		Well Rounded Quartz Gravel.		19.5	S-13	2-3-9	16	0.7	47	
		24.0'/El. 350.3		21.0	S-14	12-14-15	39	1.0	67	
350		Fine **SAND**, some Silt, trace fine Gravel, trace Clay, medium dense to dense, wet, homogeneous, poorly graded, rounded, low plastic fines, dark brown, alluvium, *a-2-4, sm.*	a-2-4 / sm	22.5	S-15	12-14-12	35	0.6	40	
		27.0'/El. 347.3		24.0	S-16	12-13-12	33	1.2	80	
TOR 346.30			a-1-b / gp	25.5	S-17	12-7-8	20	1.5	100	
EPTE 345.30		**GRAVEL**, very dense, wet, fissured, poorly graded, angular, non-plastic, gray, residuum, *a-1-b, gp*		27.0	S-18	7-12-20	43	0.7	47	
345		*Single Limestone Fragment in Spoon Tip.*		27.2	S-19	50/.2'	>67	0.1	50	
		28.0'/El. 346.3		28.0	A-2					
		LIMESTONE, gray, mineral veins, medium hard to hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, close to moderate spacing, steep dip, tight joints,		28.0	S-20	50/.0'	>67	0.0	0	
		Shaly in Part; Alternating Light and Dark Gray Laminetions		28.0	R-1		65%	2.0	100	
340		*Mineral Veins Consist of Calcite Veins in Random Orientation*		30.0	R-2		25%	2.0	100	
		Vertical Fractures From 32.9-33.2' and 34.6-35.3'		32.0	R-3		36%	4.5	90	
		Very Broken Zones From 32.9-33.0', 35.2-35.4' and 46.4-46.7'		37.0	R-4		36%	5.0	100	
335		*(RQD=38%).*		42.0	R-5		20%	4.8	96	
		49.0'/El. 325.3		47.0	R-6		75%	2.0	100	
330										

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT:
ABUTMENT 1

LOG 1 OF 2

BORING NUMBER:	BORING LOCATION	START: 05/09/2023 3:00 PM	HAMMER: AUTOMATIC
B-4	STATION: 13+86.2 OFFSET: 30.7 FT. RT.	FINISH: 05/10/2023 1:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	384.6 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 350.0 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 349.7 ft. - 162.7 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.**	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
		TOPSOIL.		1.5	S-1	2-2-2	5	0.9	60	
		0.3'/El. 384.3		3.0	S-2	2-5-7	16	0.9	60	
		SAND, little Gravel, little Silt, trace Clay, loose to medium dense, damp to wet, heterogeneous, poorly graded, angular, low plastic fines, dark brown to dark gray, fill, *a-2-4, sm*		4.5	S-3	6-7-5	16	1.0	67	
		Includes Rock Fragments, Cinders WithTraces of Coal Fines		6.0	S-4	4-5-4	12	1.1	73	
		Very Low Blow Counts Below 6.0'.	a-2-4 / sm	7.5	S-5	1-1-1	3	0.6	40	
				9.0	S-6	1-1-2	4	1.1	73	
				10.5	S-7	1-1-1	3	0.3	20	
				12.0	S-8	1-1-1	3	0.8	53	
TOLP 372.00				13.5	S-9	1-1-1	3	1.0	67	
370				15.0	S-10	1-1-1	3	0.4	27	
				16.5	S-11	2-1-1	3	0.8	53	
				18.0	S-12	1-1-1	3	0.9	60	
		18.0'/El. 366.6		18.0	S-13	1-1-1	3	0.9	60	
		CLAY, some Silt, little Sand, little Gravel, soft to medium, wet, heterogeneous, poorly graded, angular, medium plastic fines, orange brown, fill, *a-6, cl*	a-6 / cl	19.5	S-14	1-1-5	8	0.3	20	
		Dark Brown in Color From 21.0-22.5'.		21.0	S-15	2-2-2	5	1.0	67	
		22.5'/El. 362.1		22.5	S-16	3-3-5	11	0.7	47	
		CLAY and **SILT**, little Sand, little Gravel, soft to stiff, wet, homogeneous, poorly graded, rounded, medium plastic fines, brown, alluvium, *a-6, cl.*	A-6 / CL	24.0	S-17	4-4-3	9	0.0	0	
				25.5	S-18	2-1-2	4	0.5	33	
		28.5'/El. 356.1		27.0	S-19	1-2-2	5	1.3	87	
		SAND, little Gravel, little Silt, trace Clay, medium dense, damp, homogeneous, poorly graded, rounded, low plastic fines, orange brown, alluvium, *a-1-b, sp*		28.5	S-20	4-9-11	27	0.9	60	
		White Quartz Pebbles/Gravel; Well Rounded and Medium to Course Sand.	a-1-b / sp	30.0	S-21	7-9-11	27	0.6	40	
		34.5'/El. 350.1		31.5	S-22	9-12-8	27	0.9	60	
		SAND, little Gravel, little Clay, little Silt, medium dense to very dense, damp, fissured, poorly graded, angular, medium plastic fines, dark gray, residuum, *a-2-6, sc*		33.0	S-23	6-5-3	11	0.9	60	
		Decomposed Calcareous Shale		34.5	S-24	4-4-7	15	0.8	53	
		Friable Shale Fragments.	a-2-6 / sc	36.0	S-25	18-15-14	39	0.9	60	
		42.1'/El. 342.5		37.5	S-26	40-50/.4'	>67	0.9	100	
TOR 342.50				38.4	A-1					
EPTE 341.50		**LIMESTONE**, light gray to dark gray, mineral veins, medium hard to hard, slightly weathered, laminated to moderate bedding with moderate dip, bedding joints, close to moderate spacing, moderate dip, tight joints,		39.0	S-27	49-50/.2'	>67	0.7	100	
340		*Mineral Veins Consist of Calcite Veins in Random Orientation*		39.7	A-2					
		Limestone has "Shaly" Partings		40.5	S-28	50/.1"	>67	0.1	100	
		Light Gray Limestone Appears Harder Than Shaly Beds; Shaly Beds Leave Dark Gray "Sooty" Residue on Fingers		40.6	A-3					
		Bedding RD=25-30°		42.0	S-29	50/.1"	>67	0.1	100	
		Traces of Pyrite From 60.8-62.0'		42.1	R-1		20%	1.9	95	
335		*Blocking Off Towards Bottom of Run; Ground Some Core And Washed Away at Bottom of R-5*		44.1	R-2		26%	3.5	100	
		(RQD=35%).		47.6	R-3		24%	4.6	92	
				52.6	R-4		52%	5.0	100	
				57.6	R-5		42%	4.6	92	
		62.6'/El. 322.0								
330										

GENERAL NOTES

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LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BCCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

mld

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 54 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME= $$design file$$ $$USER$$
PLOTTED=$$$$DATE$$$$ $$TIME$$
PEN TABLE= $$PENTBLS$$
PLOT DRIVER= $$PLTDRVR$$

SUBSTRUCTURE UNIT:
PIER 1

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/15/2023 2:00 PM	HAMMER: AUTOMATIC
B-5	STATION: 15+16.0 OFFSET: 31.1 FT. LT.	FINISH: 05/16/2023 9:00 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	353.3 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 349.1 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME:El. 349.5 ft. - 70.3 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.	BLOW COUNT ------ PP/T TSF	N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲ 10 20 30 40
		TOPSOIL. 0.1'/El. 353.2	a-6 / cl	1.5	S-1	1-1-1	3	1.1	73	
		CLAY, some Silt, little Sand, soft to stiff, moist, heterogeneous, poorly graded, medium plastic fines. dark brown, alluvium, *a-6, cl.* 2.5'/El. 350.8	a-2-4 / gm	3.0	S-2	3-6-10	21	1.0	67	
				4.5	S-3	6-12-17	39	0.0	0	
		GRAVEL, little Sand, little Silt, trace Clay, dense, damp, heterogeneous, poorly graded, angular, low plastic fines, gray, fill, *a-2-4, gm*			R-1		0%	1.0	50	
		.Battered Wall or Rip-Rap?	a-2-4 / sm	6.5	S-4	2-3	4	0.1	10	
		.Concrete Fagments		7.5	S-5	1-1-2	4	0.0	0	
		.Spoon Veered Off While Driving From 3.0-4.5'. 4.5'/El. 348.8		9.0	S-6	2-2-2	5	0.6	40	
TOR 341.80			a-1-b / gp	10.5	S-7	50/.3"	>67	0.1	33	
BFE 338.80		**SANDSTONE interbedded with LIMESTONE**, other pa, to,		10.8	A-1					
		.Cobbles/Boulders; Possibly Part of Stone Facing on Battered Wall or Rip-Rap; Consists of Quartzitic Sandstone and Limestone		11.5	R-2		100%	1.5	100	
		(RQD=0%). 6.5'/El. 346.8		13.0	R-3		76%	5.0	100	
		SAND, some Silt, trace Clay, very loose to loose, wet, homogeneous, poorly graded, low plastic fines, dark brown, alluvium, *a-2-4, sm*		18.0	R-4		66%	5.0	100	
		.Depths Est. Due to Poor Recovery. 10.5'/El. 342.8		23.0	R-5		90%	5.0	100	
		GRAVEL, very dense, wet, homogeneous, poorly graded, angular, non-plastic, gray, residuum, *a-1-b, gp*		28.0	R-6		55%	4.0	100	
		.Single Limestone Fragments in Spoon Tip								
		.Casing Refusal @ 11.5'. 11.5'/El. 341.8								
		LIMESTONE, light gray, mineral veins, hard, slightly weathered to fresh, narrow to medium bedding with steep dip, bedding joints, close to medium spacing, steep dip, tight joints,								
		.Mineral Veins Consist of Calcite Veins in Random Orientation								
		.Brecciated From 11.5-12.0'; Angular Limestone Fragments Recemented in Calcite								
		.Vertical Fractures From 19.1-19.9', 20-5-21.0' and 31.3-31.6'								
		.Shaly From 23.2-23.3'								
		.Bedding RD=40°								
		(RQD=75%). 32.0'/El. 321.3								

SUBSTRUCTURE UNIT:
PIER 1

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/16/2023 9:15 AM	HAMMER: AUTOMATIC
B-6	STATION: 15+04.4 OFFSET: 28.4 FT. RT.	FINISH: 05/16/2023 12:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	352.1 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 349.3 ft.- - 12.0 hr.
▼ 24 HR. READING - ELAPSED TIME:El. 349.2 ft. - 67.3 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.**	BLOW COUNT ------ PP/T TSF	N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲ 10 20 30 40
		TOPSOIL. 0.1'/El. 352.0	A-4 / SC	1.5	S-1	1-1-1	3	1.2	80	
		SILT, little fine Sand, little Clay, very soft to soft, damp to wet, homogeneous, poorly graded, medium plastic fines, brown, alluvium, *a-4, ml.* 3.5'/El. 348.6		3.0	S-2	1-1-2	4	1.3	87	
			a-1-b / gp	3.6	S-3	13-50/.1"	>67	0.6	100	
		GRAVEL, very dense, wet, homogeneous, poorly graded, angular, non-plastic, gray, fill, *a-1-b, gp*			R-1		10%	2.3	59	
		.Substructure??		7.5	S-4	21-16-19	47	0.6	40	
		.Single Limestone Fragment in Spoon Tip. 3.6'/El. 348.5		9.0	R-2		30%	2.0	100	
				11.0	R-3		0%	0.3	15	
		LIMESTONE, *Limestone Cobbles/Boulders, Traces of Concrete, Traces of Quartzite*		13.0	R-4		60%	2.0	100	
		.Traces of Concrete From 5.5-5.9' (Est. Due to Poor Recovery)		15.0	R-5		33%	2.8	93	
		.Possible Substructure For Paved Slope?/or Riprap?		18.0	R-6		70%	4.6	92	
		.Lacks Bedding Features		23.0	R-7		84%	5.0	100	
		.Bent Spoon Driving From 7.5-9.0'. 9.7'/El. 342.4		28.0	R-8		78%	5.0	100	
		LIMESTONE, gray, mineral veins, hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, moderate to medium spacing, steep dip, tight joints,								
		.Mineral Veins Consist of Calcite Veins in Random Orientation								
		.Void or Clay Seam From 11.0-12.7'								
		.Occasional Pyrite Inclusions Along Calcite Veins Below 22.0'								
		.Very Broken With Numerous Calcite Veins From 17.0-18.0'								
		.Bedding RD=40°								
		.Very Competent Below 18.0'								
		(RQD=62%). 33.0'/El. 319.1								
TOR 342.40										
BFE 338.80										

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

12/12/24
PROFESSIONAL ENGINEER DATE

RECOMMENDED 10/20/2025

SHEET 55 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME= $$design1file$$ $$USER$$
PLOTTED=$$$$DATE$$$$ $$TIME$$
PEN TABLE= $$PENTBLS$$
PLOT DRIVER= $$PLTDRVR$$

SUBSTRUCTURE UNIT:
PIER 2

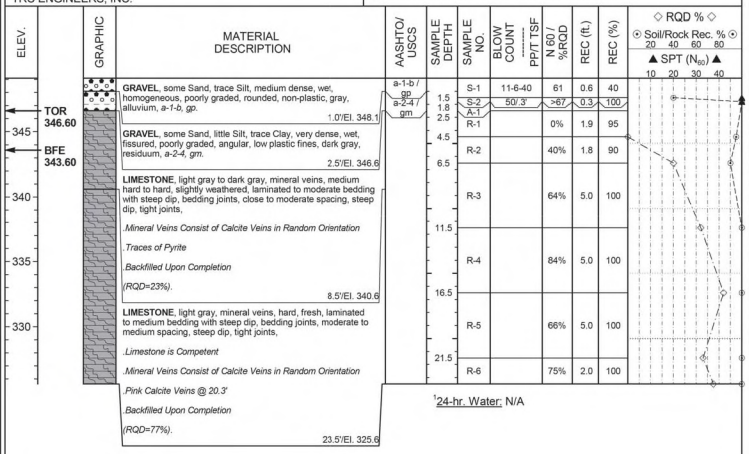
LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 06/08/2023 12:00 PM	HAMMER: AUTOMATIC
B-7	STATION: 16+25.0 OFFSET: 28.0 FT. LT.	FINISH: 06/08/2023 1:30 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	349.1 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 352.7 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: NR - NR [1]



[1] 24-hr. Water: N/A

SUBSTRUCTURE UNIT:
PIER 2

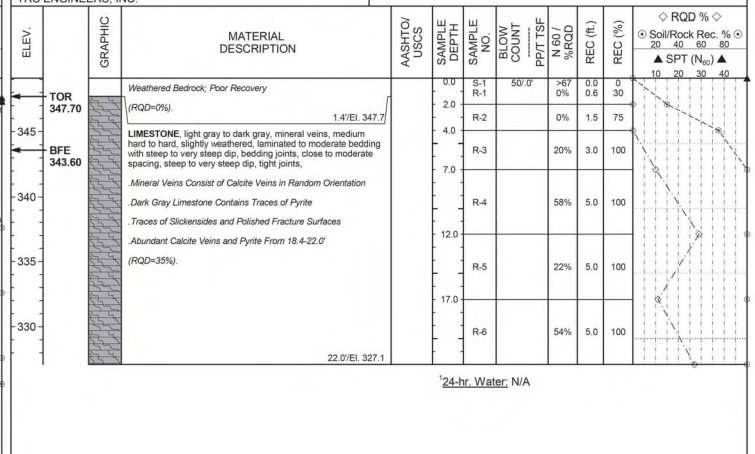
LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 06/09/2023 8:30 AM	HAMMER: AUTOMATIC
B-8	STATION: 16+05.0 OFFSET: 28.0 FT. RT.	FINISH: 06/09/2023 10:15 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	349.1 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 352.3 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: NR - NR [1]



[1] 24-hr. Water: N/A

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

12/12/24
PROFESSIONAL ENGINEER DATE

RECOMMENDED 10/20/2025

SHEET 56 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $USER$
PLOTTED: $$$$DATE$$$ $$TIME$$$
PEN TABLE: $PENTBL$
PLOT DRIVER: $PLTDRVL$

SUBSTRUCTURE UNIT: PIER 3 — LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/23/2023 11:30 AM	HAMMER: AUTOMATIC
B-9	STATION: 17+23.4 OFFSET: 28.0 FT. LT.	FINISH: 05/23/2023 2:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	377.8 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 354.9 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 352.0 ft. - 189.8 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.*	BLOW COUNT	PP/T TSF N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲
377.8		**BITUMINOUS CONCRETE.** 0.3'/El. 377.5		0.5	A-1					
		GRAVEL and **SAND**, little Silt, little Clay, loose to medium dense, damp to wet, heterogeneous, poorly graded, angular, medium plastic fines, dark brown, fill, *a-2-4, gm* *Includes Brick Fragments, Natural Rock Fragments, Traces of Concrete; Reacts With HCL.* 7.5'/El. 370.3	a-2-4 / gm	1.5	S-1	7-7	9 0.6	60		
375				3.0	S-2	8-12-8	27 0.9	60		
				4.5	S-3	6-9-7	21 0.9	60		
				6.0	S-4	2-3-3	8 0.7	47		
				7.5	S-5	3-3-1	5 0.9	60		
370		**CLAY**, some Silt, little Sand, little Gravel, medium, wet, heterogeneous, poorly graded, rounded, medium plastic fines, orange brown, fill, *a-6, cl* *Occasional Rounded Quartz Gravel.* 12.0'/El. 365.8	a-6 / cl	9.0	S-6	1-2-2	5 1.0	67		
				10.5	S-7	4-4-2	8 0.9	60		
				12.0	S-8	3-3-3	8 0.8	53		
365		**SILT**, some Gravel, little Sand, trace Clay, soft to medium, heterogeneous, poorly graded, rounded, medium plastic fines, orange brown to brown, fill/alluvium?, *a-6, cl* *Occasional Rounded Quartz Gravel* *Spoon Refusal @ 21.0'.* 21.0'/El. 356.8	A-6 / CL	13.5	S-9	WOH-2-2	5 0.6	40		
				15.0	S-10	2-2-2	5 1.0	67		
				16.5	S-11	1-2-3	7 0.9	60		
				18.0	S-12	1-1-1	3 0.7	47		
				19.5	S-13	2-3-3	8 1.5	100		
TOR 356.80				21.0	S-14	2-2-2	5 1.0	67		
355				21.0	S-15	50/.0'	>67 0.0	0		
				21.0	R-1		0% 2.0	100		
		LIMESTONE, light gray, mineral veins, hard, slightly weathered, moderate to medium bedding with steep dip, bedding joints, moderate to medium spacing, steep dip, tight joints, *Mineral Veins Consist of Calcite Veins in Random Orientation* *Evidence of Solution Action @ 27.9' and From 28.3-28.4'* *Becomes Slightly Darker Gray With Some Laminations Below 39.7'* *Bedding RD=40 °* *(RQD=55%).*		23.0	R-2		55% 4.0	100		
350				27.0	R-3		42% 5.0	100		
BOCE 346.00				32.0	R-4		86% 4.9	98		
345				37.0	R-5		58% 5.0	100		
340										
BORS 336.00		42.0'/El. 335.8								

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT: PIER 3 — LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/24/2023 10:00 AM	HAMMER: AUTOMATIC
B-10	STATION: 17+13.9 OFFSET: 0.2 FT. RT.	FINISH: 05/24/2023 12:30 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	377.2 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 350.4 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 349.5 ft. - 167.1 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.**	BLOW COUNT	PP/T TSF N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲
		SAND, little Gravel, little Silt, trace Clay, loose to medium dense, damp, heterogeneous, poorly graded, angular, non-plastic, dark brown, fill, *a-2-4, sm* *Includes Cinders, Brick Fragments, Natural Rock Fragments, Traces of Concrete, Etc.* 4.5'/El. 372.7	a-2-4 / sm	1.5	S-1	5-5-5	13 1.2	80		
375				3.0	S-2	2-3-3	8 0.9	60		
				4.5	S-3	2-3-2	7 0.9	60		
				6.0	S-4	4-6-6	16 0.7	47		
		GRAVEL, some Sand, little Silt, trace Clay, very loose to medium dense, damp to wet, heterogeneous, poorly graded, angular, medium plastic fines, dark brown to brown gray, fill, *a-2-6, gc* *Includes Limestone Fragments, Cinders, Brick Fragments, Traces of Coal, Etc.* 12.0'/El. 365.2	A-2-6 / GC	7.5	S-5	3-1-1	3 0.9	60		
370				9.0	S-6	1-1-1	3 0.6	40		
				10.5	S-7	1-1-1	3 0.5	33		
				12.0	S-8	1-1-2	4 0.7	47		
		CLAY, some Silt, little Sand, little Gravel, soft to medium, moist to wet, homogeneous, poorly graded, rounded, medium plastic fines, brown, fill/alluvium?, *a-6, cl* *Contains Well Rounded Quartz Gravel.*		13.5	S-9	1-2-2	5 0.9	60		
365				15.0	S-10	2-2-3	7 0.8	53		
				16.5	S-11	2-1-1	3 0.9	60		
				18.0	S-12	2-1-2	4 0.1	7		
			a-6 / cl	19.5	S-13	2-3-2	7 0.9	60		
				21.0	S-14	2-3-4	9 0.9	60		
				22.5	S-15	2-2-2	5 0.1	7		
				24.0	S-16	2-2-1	4 0.7	47		
				25.5	S-17	1-2-2	5 1.1	73		
		25.5'/El. 351.7		27.0	S-18	8-6-7	17 0.4	27		
TOR 349.50		**GRAVEL**, little Clay, trace Sand, trace Silt, medium dense to very dense, wet, fissured, poorly graded, angular, low plastic fines, gray, residuum, *a-2-6, gc* *Weathered Limestone* *Casing Advanced Slowly From 25.5-27.0'; Possibly Pinnacle Bedrock Surface.* 27.7'/El. 349.5	a-2-6 / gc	27.7	S-19	8-50/.2'	>67 0.4	57		
355				27.7	R-1		0% 1.4	61		
				30.0	R-2		70% 2.8	93		
BOCE 346.00		**LIMESTONE**, light gray to dark gray, mineral veins, hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, close to medium spacing, steep dip, tight joints, *Spoon Bouncing @ 27.7' (Bedrock)* *Mineral Veins Consist of Calcite Veins in Random Orientation* *Pyrite Inclusions @ 39.1'* *Bedding RD=35-40°* *(RQD=51%).*		33.0	R-3		54% 5.0	100		
345				38.0	R-4		50% 5.0	100		
340				43.0	R-5		40% 3.0	100		
BORS 336.00				46.0	R-6		72% 4.0	100		
335		50.0'/El. 327.2								

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 57 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $$USER$$
PLOTTED: $$$$DATE$$$$ $$TIME$$
PEN TABLE: $$PENTBL$$
PLOT DRIVER: $$PLTDRVL$$

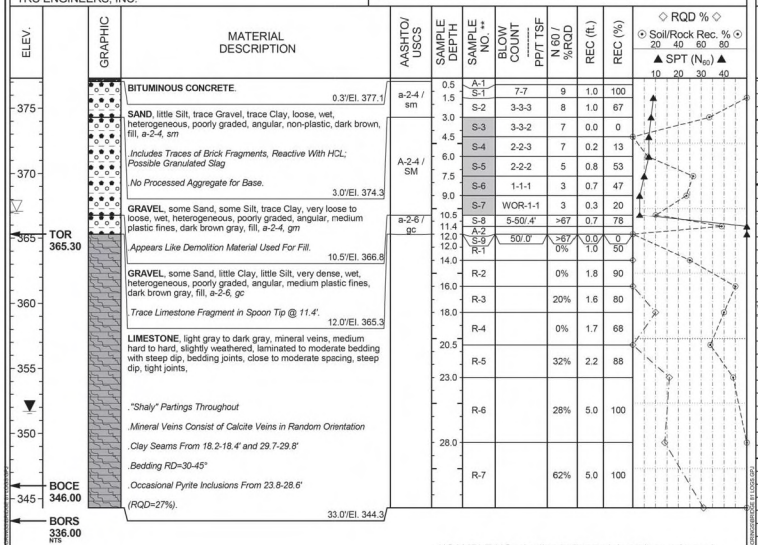
SUBSTRUCTURE UNIT: PIER 3 — LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/23/2023 9:00 AM	HAMMER: AUTOMATIC
B-11	STATION: 17+10.6 OFFSET: 29.1 FT. RT.	FINISH: 05/23/2023 11:15 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	377.3 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 367.1 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 351.7 ft. - 191.9 hr.



**SAMPLE NO. shading indicates lab testing performed.

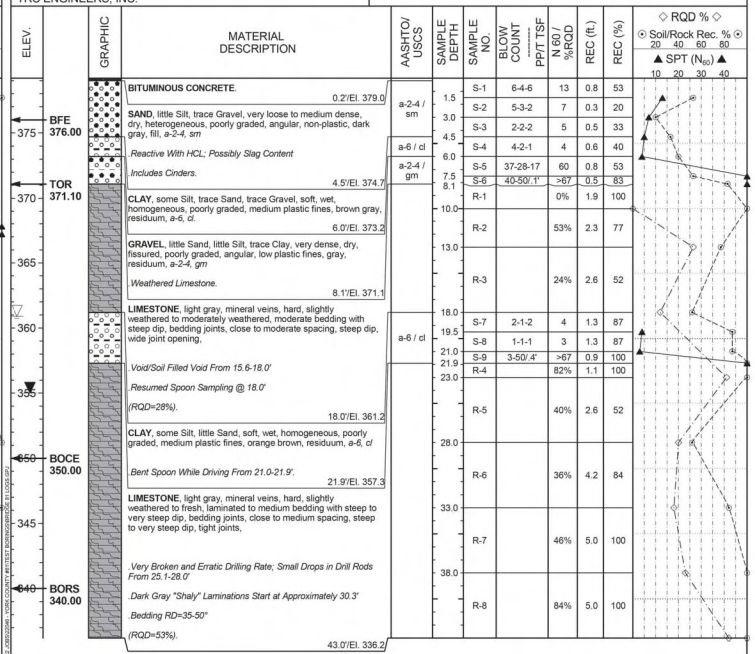
SUBSTRUCTURE UNIT: ABUTMENT 2 — LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/19/2023 8:50 AM	HAMMER: AUTOMATIC
B-12	STATION: 18+24.4 OFFSET: 27.8 FT. LT.	FINISH: 05/19/2023 11:07 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	379.2 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 360.9 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 355.0 ft. - 260.6 hr.



GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

12/12/24
PROFESSIONAL ENGINEER — DATE

RECOMMENDED 10/20/2025

SHEET 58 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $$USER$$
PLOTTED: $$$$DATE$$$$ $$TIME$$
PEN TABLE: $$PENTBL$$
PLOT DRIVER: $$PLTDRVL$$

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/30/2023 9:30 AM	HAMMER: AUTOMATIC
B-13	STATION: 18+15.2 OFFSET: 0.2 FT. RT.	FINISH: 05/30/2023 12:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	379.3 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 357.9 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 353.7 ft. - 45.5 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
		BITUMINOUS CONCRETE. 0.2'/El. 379.1	a-2-4 / gm	0.9	S-1	16-50/.4'	>67	0.6	67	
BFE 376.00		**GRAVEL**, little Sand, little Silt, trace Clay, very dense, dry, heterogeneous, poorly graded, angular, low plastic fines, white and brown, fill, *a-2-4, gm*		1.5	A-1					
		Base Course. 0.9'/El. 378.4		3.0	S-2	7-4-4	11	1.0	67	
		CEMENT CONCRETE. 1.5'/El. 377.8	a-4 / sc	4.5	S-3	3-4-4	11	1.0	67	
		SAND, some Gravel, some Silt, little Clay, very loose to medium dense, moist, heterogeneous, poorly graded, angular, low plastic fines, brown, fill, *a-4, sc.* 12.0'/El. 367.3		6.0	S-4	3-3-3	8	0.8	53	
				7.5	S-5	2-2-2	5	1.1	73	
				9.0	S-6	2-2-2	5	0.9	60	
				10.5	S-7	WOH-WOH-1	1	1.0	67	
				12.0	S-8	1-1-0	1	1.1	73	
				13.5	S-9	WOH-WOH-1	1	1.0	67	
		CLAY, some Silt, little Gravel, little Sand, very soft, homogeneous, poorly graded, angular, medium plastic fines, brown, residuum, *a-6, cl*	a-6 / cl	15.0	S-10	WOH-WOH-WOH	0	1.2	80	
		Possible Soil In Fractures		16.5	S-11	WOH-WOH-2	3	0.0	0	
TOR 362.50		*Spoon Veered Off While Driving From 16.5-16.8'; Spoon Bouncing @ 16.6'.* 16.8'/El. 362.5		16.8	S-12	50/.3'	>67	0.0	0	
				18.0	R-1		0%	1.2	100	
		LIMESTONE, light gray, mineral veins, hard, slightly weathered, moderate to medium bedding with steep to very steep dip, bedding joints, moderate to medium spacing, steep to very steep dip, open joints,		23.0	R-2		72%	5.0	100	
		Void/Very Soft From 23.2-24.0'		28.0	R-3		16%	2.2	44	
		Void/Rapid Drilling From 26.0-28.0'								
BOCE 350.00		*Rapid Drilling From 35.6-36.6*		30.5	R-4		64%	2.5	100	
		Mineral Veins Consist of Calcite Veins in Random Orientation		33.0	R-5		60%	2.4	96	
		Some Solution Vugs From 28.0-28.5'								
		Evidence of Solution Action From 16.5-16.8'; Spoon Veered Off From 16.5-16.8'; Cut Rock From 16.5-16.8'		38.0	R-6		54%	3.9	78	
		Bedding RD=40-50°								
		(RQD=55%).		43.0	R-7		76%	5.0	100	
BORS 340.00		48.0'/El. 331.3			R-8		62%	4.5	90	

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/18/2023 11:30 AM	HAMMER: AUTOMATIC
B-14	STATION: 18+05.1 OFFSET: 39.4 FT. RT.	FINISH: 05/18/2023 2:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	386.3 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 368.6 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 364.6 ft. - 139.8 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO. **	BLOW COUNT PPT TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % / Soil/Rock Rec. % / SPT (N_{60})
		TOPSOIL. 0.1'/El. 386.2		1.5	S-1	2-3-3	8	1.2	80	
		CLAY, some Silt, little Sand, little Gravel, very soft to stiff, damp to moist, heterogeneous, poorly graded, rounded, medium plastic fines, brown orange brown, fill, *a-6, cl*		3.0	S-2	3-3-5	11	0.7	47	
		Gravel Component Consists of Rounded Quartz Gravel. 9.0'/El. 377.3	a-6 / cl	4.5	S-3	6-4-3	9	0.0	0	
				6.0	S-4	WOH-WOH-1	1	0.5	33	
				7.5	S-5	2-3-4	9	1.0	67	
				9.0	S-6	3-5-5	13	1.4	93	
BFE 376.00		**CLAY**, some Silt, little Sand, trace Gravel, stiff to very stiff, damp to moist, homogeneous, poorly graded, rounded, medium plastic fines, orange brown, alluvium, *a-6, cl*		10.5	S-7	7-8-10	24	1.2	80	
		Well Rounded Quartz Gravel With Slight Horizontal Fabric. 13.5'/El. 372.8	a-6 / cl	12.0	S-8	9-10-9	25	1.1	73	
		SILT, little Clay, little Sand, trace Gravel, stiff to very stiff, damp, homogeneous, poorly graded, medium plastic fines, orange brown mottled gray purple, residuum, *a-6, ml.*		13.5	S-9	3-4-5	12	1.5	100	
				15.0	S-10	5-5-8	17	1.5	100	
			A-6 / ML	16.5	S-11	4-5-6	15	0.9	60	
		19.5'/El. 366.8		18.0	S-12	3-3-4	9	1.3	87	
				19.5	S-13	6-10-6	21	1.0	67	
TOR 366.30		**GRAVEL**, little Sand, little Clay, trace Silt, very dense, wet, fissured, poorly graded, angular, medium plastic fines, gray, residuum, *a-2-6, gc*	a-2-6 / gc	20.0	S-14	50-50/.0'	>67	0.5	100	
		Casing Refusal @ 20.0'. 20.0'/El. 366.3		22.0	R-1		80%	2.0	100	
		LIMESTONE, light gray, mineral veins, hard, slightly weathered, moderate to medium bedding with steep dip, jointed, close to medium spacing, moderate dip, tight joints, *Mineral Veins Consist of Calcite Veins in Random Orientation*		27.0	R-2		74%	5.0	100	
		Pink Calcite Veins From 32.3-33.7'		32.0	R-3		82%	5.0	100	
		Bedding RD=30-40°								
		Joint RD=20°		37.0	R-4		88%	4.9	98	
		(RQD=75%).								
BOCE 350.00					R-5		40%	2.8	93	
BORS 340.00 NTS		40.0'/El. 346.3								

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 59 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $USER$
PLOTTED: $$$$DATE$$$ $$TIME$$$
PEN TABLE: $PENTBL$
PLOT DRIVER: $PLTDRVL$

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/22/2023 9:00 AM	HAMMER: AUTOMATIC
B-15	STATION: 19+01.9 OFFSET: 29.8 FT. LT.	FINISH: 05/22/2023 11:15 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	386.2 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 368.6 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME:El. 366.8 ft. - 188.5 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.*	BLOW COUNT	PP/T TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % ◇ Soil/Rock Rec. % ▲ SPT (N_{60}) ▲
385		**BITUMINOUS CONCRETE.** 0.2'/El. 386.0	a-2-4 / sm	1.5	S-1	12-7-4		15	0.7	47	
BFE 383.00		**SAND**, little Gravel, little Silt, little Clay, medium dense, damp, heterogeneous, poorly graded, angular, medium plastic fines, dark gray, fill, *a-2-4, sm*		3.0	S-2	4-3-4		9	1.0	67	
		Cindery Subbase. 1.5'/El. 384.7		4.5	S-3	4-4-6		13	1.1	73	
380		**SILT**, little Clay, little Sand, trace Gravel, medium to hard, damp to moist, heterogeneous, poorly graded, medium plastic fines, orange brown, fill, *a-6, cl*	A-6 / CL	6.0	S-4	2-3-5		11	1.1	73	
		Occasional Purple Mottles		7.5	S-5	5-5-8		17	1.3	87	
		Traces of Rounded Quartz Pebbles		9.0	S-6	3-5-5		13	1.3	87	
		Sandy Content From 11.5-12.0'		10.5	S-7	3-5-7		16	1.2	80	
TOR 374.20		*Traces of Limestone Fragments in Spoon Tip @ 12.0'.* 12.0'/El. 374.2		12.0	S-8	6-6-21		36	1.2	80	
375		**LIMESTONE**, light gray, mineral veins, hard, slightly weathered, medium bedding with steep dip, bedding joints, close to medium spacing, steep dip, wide joint opening, *70° Fracture From 14.0-14.3' and 14.9-15.2'*		12.0	S-9	50/.0'		>67	0.0	0	
		(RQD=50%). 15.2'/El. 371.0		12.0	R-1			50%	2.0	100	
370		**VOID.** 18.5'/El. 367.7	a-2-6 / gc	14.0	R-2			13%	1.2	27	
		SOIL SEAM. *Poor Recovery*		18.5	R-3			0%	1.3	32	
		(RQD=0%). 22.5'/El. 363.7		22.5	S-10	WOH-50/.3'		>67	0.5	62	
365		**GRAVEL**, little Clay, little Silt, very dense, wet, fissured, poorly graded, angular, medium plastic fines, brown gray, rasiduum, *a-2-6, gc*		23.3	R-4			69%	3.9	93	
		Decomposed Limestone. 23.3'/El. 362.9		27.5	R-5			62%	5.0	100	
360		**LIMESTONE**, light gray to dark gray, mineral veins, hard, slightly weathered, laminated to medium bedding with steep dip, bedding joints, close to medium spacing, tight joints.									
		Rapid Drilling From 26.9-27.5'									
355		*Mineral Veins Consist of Calcite Veins in Random Orientation*									
		Bedding RD=40°									
		80° Fracture/Joint From 32.0-32.5'									
		(RQD=65%). 32.5'/El. 353.7									

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/18/2023 8:30 AM	HAMMER: AUTOMATIC
B-16	STATION: 19+03.4 OFFSET: 35.9 FT. RT.	FINISH: 05/18/2023 10:45 AM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	393.0 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME:El. 365.1 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME:El. 364.3 ft. - 143.0 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.**	BLOW COUNT	PP/T TSF	N 60 / %RQD	REC (ft.)	REC (%)	RQD % ◇ Soil/Rock Rec. % ▲ SPT (N_{60}) ▲
		TOPSOIL. 0.1'/El. 392.9	a-6 / cl	1.5	S-1	4-3-4		9	1.4	93	
390		**CLAY**, some Silt, little Sand, little Gravel, medium to stiff, damp to wet, homogeneous, poorly graded, rounded, medium plastic fines, orange brown, fill, *a-6, cl*		3.0	S-2	3-3-3		8	0.6	40	
		Possibly Plastic		4.5	S-3	3-2-2		5	0.9	60	
		Well Rounded Quartz Gravel in Clay Matrix. 7.5'/El. 385.5		6.0	S-4	2-3-3		8	1.2	80	
385		Fine **SAND**, little Clay, little Silt, trace Gravel, loose, moist, homogeneous, poorly graded, medium plastic fines, orange brown, fill, *a-2-6, sc.*	a-2-6 / sc	7.5	S-5	4-4-5		12	0.6	40	
BFE 383.00		9.0'/El. 384.0		9.0	S-6	2-3-3		8	0.9	60	
		GRAVEL, some Sand, some Silt, trace Clay, medium dense, damp to wet, fissured, poorly graded, angular, low plastic fines, orange brown and mottled gray purple, residuum, *a-2-4, sm*	A-2-4 / SC-SM	10.5	S-7	3-4-5		12	1.0	67	
380		*Non-Calcareous.* 16.5'/El. 376.5		12.0	S-8	5-5-4		12	0.9	60	
		GRAVEL, little Sand, little Silt, trace Clay, dense to very dense, wet, fissured, poorly graded, angular, non-plastic, dark gray, *a-2-4, gm*	a-2-4 / gm	13.5	S-9	2-3-6		12	1.0	67	
		Weathered Limestone		15.0	S-10	7-6-7		17	0.9	60	
TOR 374.00		*Casing Refusal @ 19.0'.* 19.0'/El. 374.0		16.5	S-11	3-7-6		17	0.6	40	
375		**LIMESTONE**, light gray, mineral veins, hard, slightly weathered to moderately weathered, moderate bedding with moderate dip, bedding joints, moderate dip, open joints,		18.0	S-12	11-17-16		44	1.3	87	
		Vertical Fracture With Stains From 19.6-20.1'		18.9	S-13	20-50/.4'		>67	0.3	33	
		Very Broken With Core Loss From 25.0-28.0'	a-1-b / gp	19.0	S-14	50/.0'		>67	0.0	0	
		Bedding RD=25-30°		19.0	R-1			0%	1.8	90	
		Driller Reported "Soft" Drilling From 25.7-28.0'; Tried Spoon @ 28.0'		21.0	R-2			95%	2.0	100	
		(RQD=21%). 28.0'/El. 365.0		23.0	R-3			0%	0.6	24	
		GRAVEL, some Sand, medium dense, wet, fissured, poorly graded, angular, non-plastic, gray, residuum, *a-1-b, gp*		25.5	R-4			0%	0.2	8	
		Limestone Fragments		28.0	S-15	2-3-17		27	0.5	33	
		Spoon Verred Off Driving From @ 28.0-28.5'; Bent Spoon. 29.5'/El. 363.5		29.5	R-5			60%	1.0	100	
		LIMESTONE, light gray, mineral veins, hard, fresh, moderate to medium bedding with steep dip, moderate to medium spacing, steep dip, tight joints,		30.5	R-6			100%	2.5	100	
		Rock is Competent		33.0	R-7			100%	2.5	100	
		Bedding RD=35-40°									
		Pink Calcite Veins From 33.8-34.6'									
		(RQD=93%). 35.5'/El. 357.5									

**SAMPLE NO. shading indicates lab testing performed.

GENERAL NOTES

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

FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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

LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 60 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $$USER$$
PLOTTED: $$$$DATE$$$$ $$TIME$$
PEN TABLE: $$PENTBL$$
PLOT DRIVER: $$PLTDRVL$$

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/22/2023 11:30 AM	HAMMER: AUTOMATIC
B-17	STATION: 20+15.3 OFFSET: 31.2 FT. LT.	FINISH: 05/22/2023 2:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	394.0 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 365.6 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 364.7 ft. - 185.8 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.*	BLOW COUNT	PP/T TSF N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲
394.0		**BITUMINOUS CONCRETE.** 0.2'/El. 393.8	a-2-6 / gc	1.5	S-1	9-5-3	11	1.0	67	
		GRAVEL, little Sand, little Clay, little Silt, medium dense, damp, heterogeneous, poorly graded, angular, medium plastic fines, brown, fill, *a-2-4, gc*		3.0	S-2	2-2-2	5	0.8	53	
		Asphalt Subbase: Included Quartz Gravel, Traces of Brick, Etc. 1.5'/El. 392.5		4.5	S-3	2-3-4	9	1.5	100	
		SILT, some Gravel, some Sand, little Clay, medium to very stiff, moist to wet, homogeneous, poorly graded, rounded, medium plastic fines, orange brown, fill, *a-6, sc*	A-7-6 / SC	6.0	S-4	2-3-4	9	0.9	60	
		Includes Well Rounded Quartz Gravel. 12.0'/El. 382.0		7.5	S-5	6-5-7	16	1.2	80	
385.00		BFE		9.0	S-6	5-5-6	15	1.2	80	
		CLAY, some Silt, little Sand, trace Gravel, soft to stiff, moist, homogeneous, poorly graded, angular, medium plastic fines, orange brown to mottled gray purple, residuum, *a-6, cl*		10.5	S-7	7-7-7	19	1.5	100	
		Occasional Inclinded Fabric		12.0	S-8	4-4-6	13	1.3	87	
		Sandy Lenses From 15.0-16.5', 18.0-19.5' and 21.0-22.5'. 22.5'/El. 371.5	a-6 / cl	13.5	S-9	2-2-3	7	0.7	47	
				15.0	S-10	2-4-6	13	1.3	87	
				16.5	S-11	2-3-5	11	1.2	80	
				18.0	S-12	2-2-2	5	0.7	47	
				19.5	S-13	2-2-2	5	1.2	80	
				21.0	S-14	2-3-2	7	1.0	67	
				22.5	S-15	WOH-1-1	3	1.5	100	
370.50		TOR		23.5	S-16	WOH-WOH-50/.0"	67	0.6	60	
		SAND, little Silt, trace Clay, very dense, wet, homogeneous, poorly graded, non-plastic, dark gray, residuum, *a-2-4, sm*	a-2-4 / sm	25.5	R-1		80%	1.8	90	
		Calcareous. 23.5'/El. 370.5		28.0	R-2		76%	2.5	100	
		LIMESTONE, light gray, mineral veins, hard, slightly weathered, moderate to medium bedding with steep dip, bedding joints, moderate to medium spacing, steep dip, tight joints, *Bedding RD=40°; Joint RD=50-55°*		33.0	R-3		50%	4.1	82	
		Mineral Veins Consist of Calcite Veins in Random Orientation								
	VOID	*Vertical Fracture/Joint From 28.3-29.1'*								
	VOID	*(RQD=70%).* 32.1'/El. 361.9		38.0	R-4		0%	1.5	30	
	VOID	**VOID,**								
	VOID	*Void/Very Soft Soil Seam; Tools Dropped With Very Little Down Pressure*								
		Poor Recovery		40.5	R-5		40%	2.2	88	
		(RQD=0%). 36.0'/El. 358.0			R-6		16%	2.3	92	
		SOIL SEAM, *Dark Brownish-Gray*								
		(RQD=0%). 37.7'/El. 356.3								
		LIMESTONE, light gray, mineral veins, hard, slightly weathered, laminated to moderate bedding with steep dip, bedding joints, close to moderate spacing, steep dip, tight joints,								
		Mineral Veins Consist of Calcite Veins in Random Orientation								
		No Voids From 38.0-43.0'								
		Competent Below 38.0'								
		(RQD=26%). 43.0'/El. 351.0								

**SAMPLE NO. shading indicates lab testing performed.

SUBSTRUCTURE UNIT:
ABUTMENT 2

LOG 1 OF 1

BORING NUMBER:	BORING LOCATION	START: 05/17/2023 12:27 PM	HAMMER: AUTOMATIC
B-18	STATION: 20+09.1 OFFSET: 29.5 FT. RT.	FINISH: 05/17/2023 2:00 PM	EFFICIENCY: 0.8 ERa

DRILLING METHOD AND EQUIPMENT:	SIZE OF CORE:	VERTICAL SCALE:	TOP OF BORING ELEVATION:
DOUBLE TUBE WIRE LINE-NQ, AUTOMATIC, ACKER SOIL MAX TRACK RIG	1.874 IN.	0 FT. 5 FT.	395.8 FT.

DRILLING INSPECTOR: TIMOTHY WITT
DRILLER & DRILLING COMPANY: PAT FLAHERTY
TRC ENGINEERS, INC.

▽ 0 HR. READING - ELAPSED TIME: El. 365.2 ft. - 0.0 hr.
▼ 24 HR. READING - ELAPSED TIME: El. 364.8 ft. - 163.8 hr.

ELEV.	GRAPHIC	MATERIAL DESCRIPTION	AASHTO/ USCS	SAMPLE DEPTH	SAMPLE NO.	BLOW COUNT	PP/T TSF N 60 / %RQD	REC (ft.)	REC (%)	◇ RQD % ◇ ⊙ Soil/Rock Rec. % ⊙ ▲ SPT (N_{60}) ▲
395.8		**TOPSOIL.** 0.2'/El. 395.6	a-2-6 / gc	1.5	S-1	4-5-6	15	0.9	60	
		GRAVEL, little Clay, little Silt, trace Sand, medium dense, damp, heterogeneous, poorly graded, angular, medium plastic fines, brown, fill, *a-2-6, gc.*	a-4 / ml	3.0	S-2	4-4-4	11	1.2	80	
		1.5'/El. 394.3		4.5	S-3	4-3-4	9	1.2	80	
		SILT, little fine Sand, little Clay, trace Gravel, stiff, heterogeneous, poorly graded, medium plastic fines, orange brown, fill, *a-4, ml*		6.0	S-4	3-4-3	9	0.7	47	
		Trace Rounded Quartzite Pebbles. 3.0'/El. 392.8		7.5	S-5	4-5-7	16	0.0	0	
				9.0	S-6	2-3-4	9	0.8	53	
385.00		BFE		10.5	S-7	7-6-6	16	1.2	80	
		SILT and **CLAY**, trace Sand, trace Gravel, medium to very stiff, damp to moist, homogeneous, poorly graded, sub-rounded, medium plastic fines, orange brown, fill, *a-6, cl*		12.0	S-8	5-4-5	12	1.1	73	
		Gray and Purple Mottles Start @ 13.5'		13.5	S-9	2-4-5	12	1.0	67	
		Gravel Component has Rounded Edges; Possible Alluvial Deposit?.	a-6 / cl	15.0	S-10	6-6-6	16	1.2	80	
		19.5'/El. 376.3		16.5	S-11	6-6-8	19	1.1	73	
				18.0	S-12	3-2-4	8	0.9	60	
				19.5	S-13	4-4-4	11	1.2	80	
				21.0	S-14	4-7-4	15	1.2	80	
		Fine **SAND**, little Clay, little Silt, trace Gravel, very loose to medium dense, moist to wet, homogeneous, poorly graded, rounded, medium plastic fines, brown, alluvium, *a-2-6, sc*		22.5	S-15	2-2-2	5	1.1	73	
		Fine Gravel has Rounded Edges.	a-2-6 / sc	24.0	S-16	3-5-2	9	1.5	100	
		27.0'/El. 368.8		25.5	S-17	3-3-4	9	1.1	73	
				27.0	S-18	1-WOH-WOH 4-4-4	0	0.0	0	
		SAND, some Silt, little Gravel, little Clay, loose to medium dense, moist, homogeneous, poorly graded, rounded, low plastic fines, dark gray, residuum, *a-2-4, sm.*	a-2-4 / sm	28.5	S-19		11	1.1	73	
		30.0'/El. 365.8		30.0	S-20	3-3-3	8	1.1	73	
365.30		TOR	a-2-6 / gc	30.5	S-21	7-50/.0"	>67	0.5	100	
		GRAVEL, little Sand, little Clay, trace Silt, very dense, wet, fissured, poorly graded, angular, low plastic fines, dark gray, residuum, *a-2-6, gc.*			R-1		96%	2.5	100	
		30.5'/El. 365.3		33.0	R-2		11%	3.1	89	
		LIMESTONE, light gray to dark gray, mineral veins, medium hard to hard, slightly weathered to fresh, laminated to moderate bedding with steep dip, bedding joints, close to moderate spacing, steep dip, tight joints,		36.5	R-3		64%	5.0	100	
		Mineral Veins Consist of Calcite Veins in Random Orientation								
		Bedding RD=30-40°								
		Displays "Shaly" Partings								
		(RQD=55%). 41.5'/El. 354.3								

NOTE: SPOON SAMPLED AND CORED SOME INTERVAL FROM 30.0-31.5'; BENT SPOON ON PINNACLE

GENERAL NOTES

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FOR ADDITIONAL SOIL AND ROCK DESCRIPTIONS SEE PUBLICATION 222.

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LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

THE DESCRIPTIONS OF THE MATERIALS ENCOUNTERED HAVE BEEN VERIFIED.

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK,
YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

GeoMechanics, Inc.
600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 61 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $USER$
PLOTTED: $$$DATE$$$ $$TIME$$
PEN TABLE: $PENTBLS$
PLOT DRIVER: $PLTDRVR$

LABORATORY TEST SUMMARY - SOILS

					% GRAIN SIZE DISTRIBUTION (AASHTO)							CLASSIFICATION			PLASTICITY PARAMETERS			MOISTURE DENSITY		
BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	NATURAL MOISTURE %	GRAVEL %	SAND %	COARSE SAND %	FINE SAND %	FINES %	SILT %	CLAY %	AASHTO	USCS	S.G.	LIQUID LIMIT	PLASTIC LIMIT	P. I.	MAX. DRY DENSITY (PCF)	OPTIMUM MOISTURE %	CBR
B-1	13+69.4 30.39 ft. LT.	S-7 to 11	9.0 to 16.5	22.4	43.8	31.1	16.6	14.5	25.1	20.1	5.0	A-1-b	SM		30	25	5			
B-10	17+13.9 0.22 ft. RT.	S-4 to 8	4.5 to 12.0	23.2	51.6	24.5	13.7	10.8	23.9	19.1	4.8	A-2-6	GC		36	23	13			
B-11	17+10.6 29.05 ft. RT.	S-3 to 7	3.0 to 10.5	19.5	41.0	30.9	15.9	15.0	28.1	23.0	5.1	A-2-4	SM		25	22	3			
B-13A	18+15.4 2.42 ft. LT.	A-1	9.0 to 11.0	26.2	25.2	29.5	10.9	18.6	45.3	34.0	11.3	A-4	SC		30	22	8			
B-14	18+05.1 39.39 ft. RT.	S-10 to 13	13.5 to 19.5	25.2	1.7	16.6	6.4	10.2	81.7	62.4	19.3	A-6	ML		37	26	11			
B-15	19+01.9 29.76 ft. LT.	S-4 to 7	4.5 to 10.5	27.2	2.8	15.7	5.0	11.7	80.5	60.5	20.0	A-6	CL		38	25	13			
B-16	19+03.4 35.91 ft. RT.	S-7 to 11	9.0 to 16.5	21.1	37.4	29.9	9.2	21.7	31.7	27.9	3.8	A-2-4	SC-SM		26	22	4			
B-17	20+15.3 31.19 ft. LT.	S-3 to 7	3.0 to 10.5	36.0	27.5	24.6	10.9	13.7	47.9	31.6	16.3	A-7-6	SC		41	20	21			
B-18A	20+07.0 28 ft. RT.	A-1	8.0 to 10.0	23.4	6.5	7.5	3.1	4.4	86.0	48.3	37.7	A-7-6	CL		44	21	23			
B-2	13+70.6 33.44 ft. RT.	S-11 to 16	15.0 to 24.0	19.0	51.2	30.4	15.3	15.1	18.4	13.8	4.6	A-2-4	SC-SM		28	21	7			
B-3	14+36.0 28.33 ft. LT.	S-4 to 7	4.5 to 10.5	18.4	28.3	21.4	10.9	10.5	50.3	39.9	10.4	A-6	CL		32	20	12			
B-4	13+86.2 30.74 ft. RT.	S-16 to 19	22.5 to 28.5	20.5	20.1	21.4	10.2	11.2	58.5	50.6	7.9	A-6	CL		33	21	12			
B-6	15+04.4 28.43 ft. RT.	S-1 to 4	3.0 to 9.0	21.0	35.5	23.5	8.6	14.9	41.0	35.7	5.3	A-4	SC		32	23	9			
B-9	17+23.4 28.04 ft. LT.	S-9 to 13	12.0 to 19.5	25.7	25.4	18.3	7.2	11.1	56.3	40.5	15.8	A-6	CL		33	21	12			
STREAMBED			0.0 to 1.0		0.7	39.3	6.7	32.6	60.0	52.9	7.1									

GENERAL NOTES

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LEGEND

PP	POCKET PENETROMETER
T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

YORK COUNTY
CITY OF YORK
WEST COLLEGE AVENUE OVER CODORUS CREEK, YORK RAILWAY, AND
YORK COUNTY HERITAGE RAIL TRAIL PARK
4-SPAN CONTINUOUS COMPOSITE STEEL GIRDER BRIDGE
TEST BORING RESULTS

COMMONWEALTH OF PENNSYLVANIA REGISTERED PROFESSIONAL WALTER M. LORENCE ENGINEER No. 21874-E

PREPARED BY :

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600 Munir Drive,
Elizabeth, Pa 15037
Tel: (724) 379-6300

PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 62 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME: $$design file$$ $USER$
PLOTTED:$$$$DATE$$$$ $$TIME$$
PEN TABLE: $PENTBLS$
PLOT DRIVER: $PLTDRVR$

LABORATORY TEST SUMMARY - ROCK CORE

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	TEST	STRENGTH	JAR SLAKE TEST PERFORMED?	SLAKE DURABILITY INDEX & TYPE	ROCK RECOVERY %	RQD %	BEDROCK LITHOLOGY	STRATIGRAPHIC UNIT
B-10	17+13.9 0.22 ft. RT.	R-5	44.3 to 44.8	UNCONFINED COMPRESSIVE TEST	14537.0 PSI / 1,046.7 TSF	NO		100	40	LIMESTONE	CONESTOGA FORMATION
B-11	17+10.6 29.05 ft. RT.	R-6	24.6 to 25.1	UNCONFINED COMPRESSIVE TEST	13945.0 PSI / 1,004.0 TSF	NO		100	28	LIMESTONE	CONESTOGA FORMATION
B-12	18+24.4 27.75 ft. LT.	R-7	36.5 to 37.2	UNCONFINED COMPRESSIVE TEST	8877.0 PSI / 639.1 TSF	NO		100	46	LIMESTONE	CONESTOGA FORMATION
B-13	18+15.2 0.19 ft. RT.	R-7	40.8 to 41.3	UNCONFINED COMPRESSIVE TEST	12674.0 PSI / 912.5 TSF	NO		100	76	LIMESTONE	CONESTOGA FORMATION
B-14	18+05.1 39.39 ft. RT.	R-2	26.3 to 26.8	UNCONFINED COMPRESSIVE TEST	11471.0 PSI / 825.9 TSF	NO		100	74	LIMESTONE	CONESTOGA FORMATION
B-3	14+36.0 28.33 ft. LT.	R-4	37.0 to 37.7	UNCONFINED COMPRESSIVE TEST	4760.0 PSI / 342.7 TSF	NO		100	36	LIMESTONE	CONESTOGA FORMATION
B-4	13+86.2 30.74 ft. RT.	R-3	48.2 to 48.7	UNCONFINED COMPRESSIVE TEST	16112.0 PSI / 1,160.1 TSF	NO		92	24	LIMESTONE	CONESTOGA FORMATION
B-5	15+16.0 31.08 ft. LT.	R-3	16.5 to 17.0	UNCONFINED COMPRESSIVE TEST	15309.0 PSI / 1,102.2 TSF	NO		100	76	LIMESTONE	CONESTOGA FORMATION
B-6	15+04.4 28.43 ft. RT.	R-7	24.0 to 24.8	UNCONFINED COMPRESSIVE TEST	5287.0 PSI / 380.7 TSF	NO		100	84	LIMESTONE	CONESTOGA FORMATION
B-7	16+25.0 28 ft. LT.	R-3	9.3 to 10.1	UNCONFINED COMPRESSIVE TEST	16099.0 PSI / 1,159.1 TSF	NO		100	64	LIMESTONE	CONESTOGA FORMATION
B-7	16+25.0 28 ft. LT.	R-5	20.3 to 21.0	UNCONFINED COMPRESSIVE TEST	18710.0 PSI / 1,347.1 TSF	NO		100	66	LIMESTONE	CONESTOGA FORMATION
B-8	16+05.0 28 ft. RT.	R-4	10.0 to 10.5	UNCONFINED COMPRESSIVE TEST	14001.0 PSI / 1,008.1 TSF	NO		100	58	LIMESTONE	CONESTOGA FORMATION
B-8	16+05.0 28 ft. RT.	R-6	17.3 to 17.9	UNCONFINED COMPRESSIVE TEST	8949.0 PSI / 644.3 TSF	NO		100	54	LIMESTONE	CONESTOGA FORMATION
B-9	17+23.4 28.04 ft. LT.	R-3	30.7 to 31.7	UNCONFINED COMPRESSIVE TEST	19039.0 PSI / 1,370.8 TSF	NO		100	42	LIMESTONE	CONESTOGA FORMATION

LABORATORY TEST SUMMARY - ELECTROCHEMICAL

BORING NUMBER	STATION & OFFSET	SAMPLE #	TEST DEPTH (FT.)	SAMPLE SOURCE	pH	MINIMUM RESISTIVITY (ohm-cm)	CHLORIDE CONTENT (ppm)	SULFATE CONTENT (ppm)	HIGH ORGANIC CONTENT?	CORROSIVE FOR CONCRETE?	CORROSIVE FOR STEEL?
B-14	18+05.1 39.39 ft. RT.	S-10 to 13	13.5 to 19.5	GROUNDWATER	6.3	1,400	98	50	No	No	No
				SOIL	7.5	2,700	61	16	No	No	No
B-3	14+36.0 28.33 ft. LT.	S-4 to 7	4.5 to 10.5	GROUNDWATER	7.1	1,600	80	50	No	No	No
				SOIL	7.3	1,200	253	19	No	No	Resistivity
B-6	15+04.4 28.43 ft. RT.	S-1 to 4	3.0 to 9.0	GROUNDWATER	7.2	1,575	57	175	No	No	Sulfates
				SOIL	7.5	2,950	84	18	No	No	No
B-9	17+23.4 28.04 ft. LT.	S-9 to 13	12.0 to 19.5	GROUNDWATER	7.0	1,375	98	50	No	No	No
				SOIL	7.4	1,600	134	18	No	No	Resistivity
CODORUS CREEK			0.0 to 0.5	GROUNDWATER	7.2	2,000	44	80	No	No	No

Potentially Corrosive Environments per DM-4

Soil: Resistivity < 2,000 ohm-cm
2,000 ohm-cm < Resistivity < 5000 ohm-cm with sulfate concentration > 200 ppm
2,000 ohm-cm < Resistivity < 5000 ohm-cm with chloride concentration > 100 ppm
pH < 5.5
5.5 < pH <8.5 in soils with high organic content
Sulfate >1,000 ppm

Water: Chloride Content > 1000 ppm
Sulfate Content > 150 ppm
High Organic Content
pH < 5.5

Corrosive for Concrete: ph<4 or Sulfates > 1000ppm

GENERAL NOTES

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LEGEND

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T	TORVANE
NTS	NOT TO SCALE
BFE	BOTTOM OF FOOTING ELEVATION
BOCE	BOTTOM OF CASING ELEVATION
BORS	BOTTOM OF ROCK SOCKET ELEVATION
EPTE	ESTIMATED PILE TIP ELEVATION
TOLP	TOP OF LEVELING PAD
TOR	ESTIMATED TOP OF ROCK ELEVATION

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

BMS STR. ID: 66-7301-2000-3081 MPMS PROJ. 110280 BRKEY: 69331

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

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PROFESSIONAL ENGINEER — 12/12/24 DATE

RECOMMENDED 10/20/2025

SHEET 63 OF 63

L-435

DES: BJM | DWG: JPB | CKD: WML

FILE NAME= $$design file$$ $USER$
PLOTTED=$$$$DATE$$$$ $$TIME$$
PEN TABLE= $PENTBLS$
PLOT DRIVER= $PLTDRVR$

Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
8-0	YORK	7301	BRG			1 OF 6

YORK COUNTY

WEST COLLEGE AVENUE

STA 12+32.00 TO STA 22+00.00 (LIMITS OF WORK)

TOTAL SHEETS 6

CROSS SECTIONS

WEST COLLEGE AVENUE
STA 12+32 TO STA 22+00 SHEETS 2 TO 6

PREPARED BY
HERBERT, ROWLAND & GRUBIC, INC.
369 EAST PARK DRIVE
HARRISBURG, PA 17111

COMMONWEALTH OF PENNSYLVANIA
REGISTERED PROFESSIONAL
MATTHEW JOSEPH LENA
ENGINEER
PE074288

PROFESSIONAL ENGINEER

December 3, 2025
DATE

FILE NAME: P:\0037\003721_0429\Microstation\XSECT\T003721042 9 XSECT.dgn
PLOTTED: 12/2/2025 4:45:01 PM trannahill
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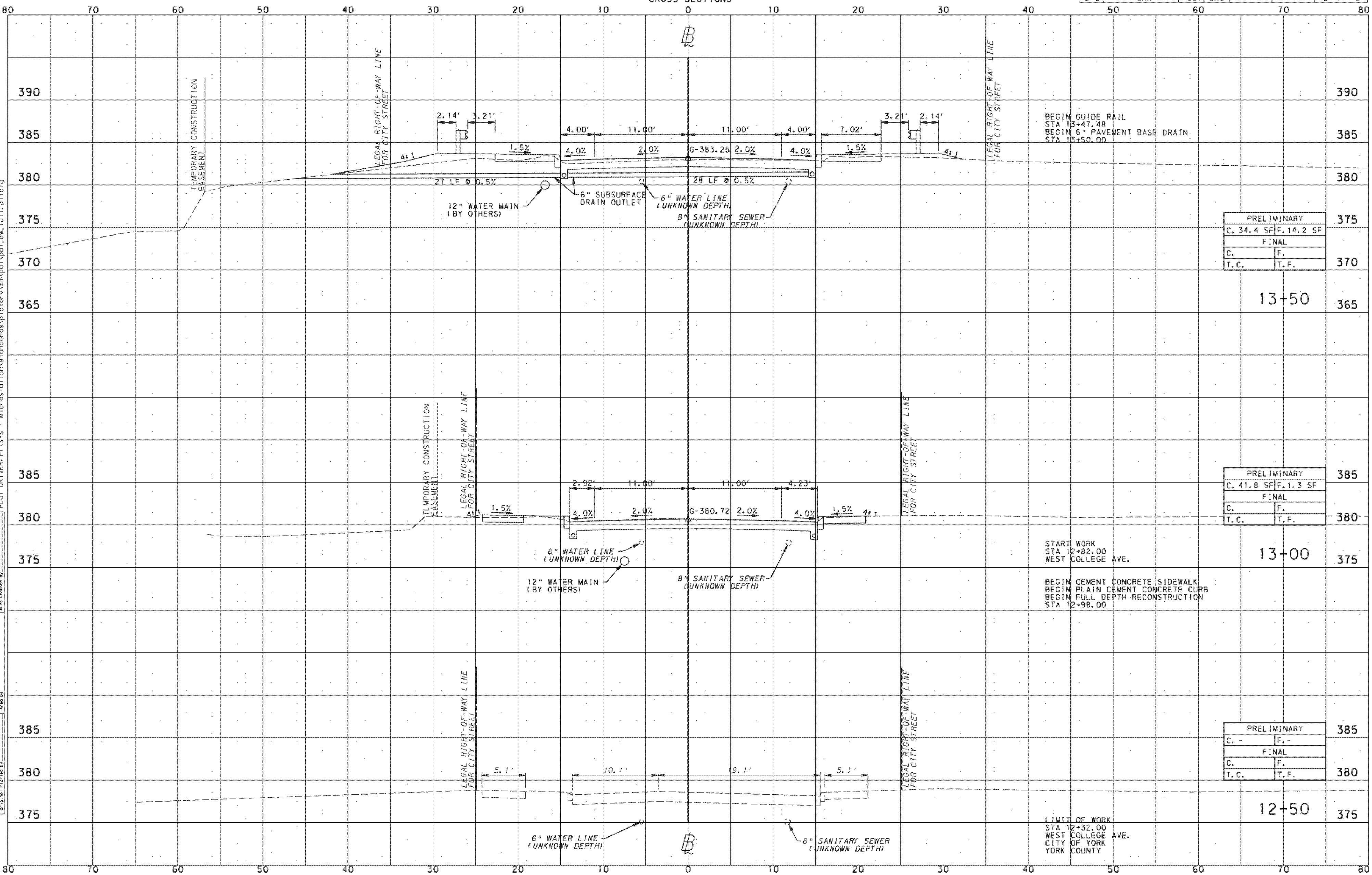
PLOT DRIVER: \STS_ Microstation\standards\plotdrv\xwmpdf\pdf_bw_full.plotcfg

CROSS SECTIONS

Dist.	County	Route	Sect.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
8-0	YORK	7301	BRC			2 OF 6



LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
TEMPORARY CONSTRUCTION EASEMENT
2.14' 3.21' 4.00' 11.00' 11.00' 4.00' 7.02' 3.21' 2.14'
1.5% 4.0% 2.0% G-383.25 2.0% 4.0% 1.5%
4:1
27 LF @ 0.5%
28 LF @ 0.5%
12" WATER MAIN (BY OTHERS)
6" SUBSURFACE DRAIN OUTLET
6" WATER LINE (UNKNOWN DEPTH)
8" SANITARY SEWER (UNKNOWN DEPTH)
BEGIN GUIDE RAIL
STA 13+47.48
BEGIN 6" PAVEMENT BASE DRAIN
STA 13+50.00
PRELIMINARY
C. 34.4 SF F. 14.2 SF
FINAL
C. F.
T.C. T.F.
13+50
2.92' 11.00' 11.00' 4.23'
1.5% 4.0% 2.0% G-380.72 2.0% 4.0% 1.5% 4:1
START WORK
STA 12+82.00
WEST COLLEGE AVE.
BEGIN CEMENT CONCRETE SIDEWALK
BEGIN PLAIN CEMENT CONCRETE CURB
BEGIN FULL DEPTH RECONSTRUCTION
STA 12+98.00
PRELIMINARY
C. 41.8 SF F. 1.3 SF
FINAL
C. F.
T.C. T.F.
13+00
5.1' 10.1' 19.1' 5.1'
PRELIMINARY
C. - F. -
FINAL
C. F.
T.C. T.F.
12+50
LIMIT OF WORK
STA 12+32.00
WEST COLLEGE AVE.
CITY OF YORK
YORK COUNTY

SCALE: 1 INCH = 5 FEET

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

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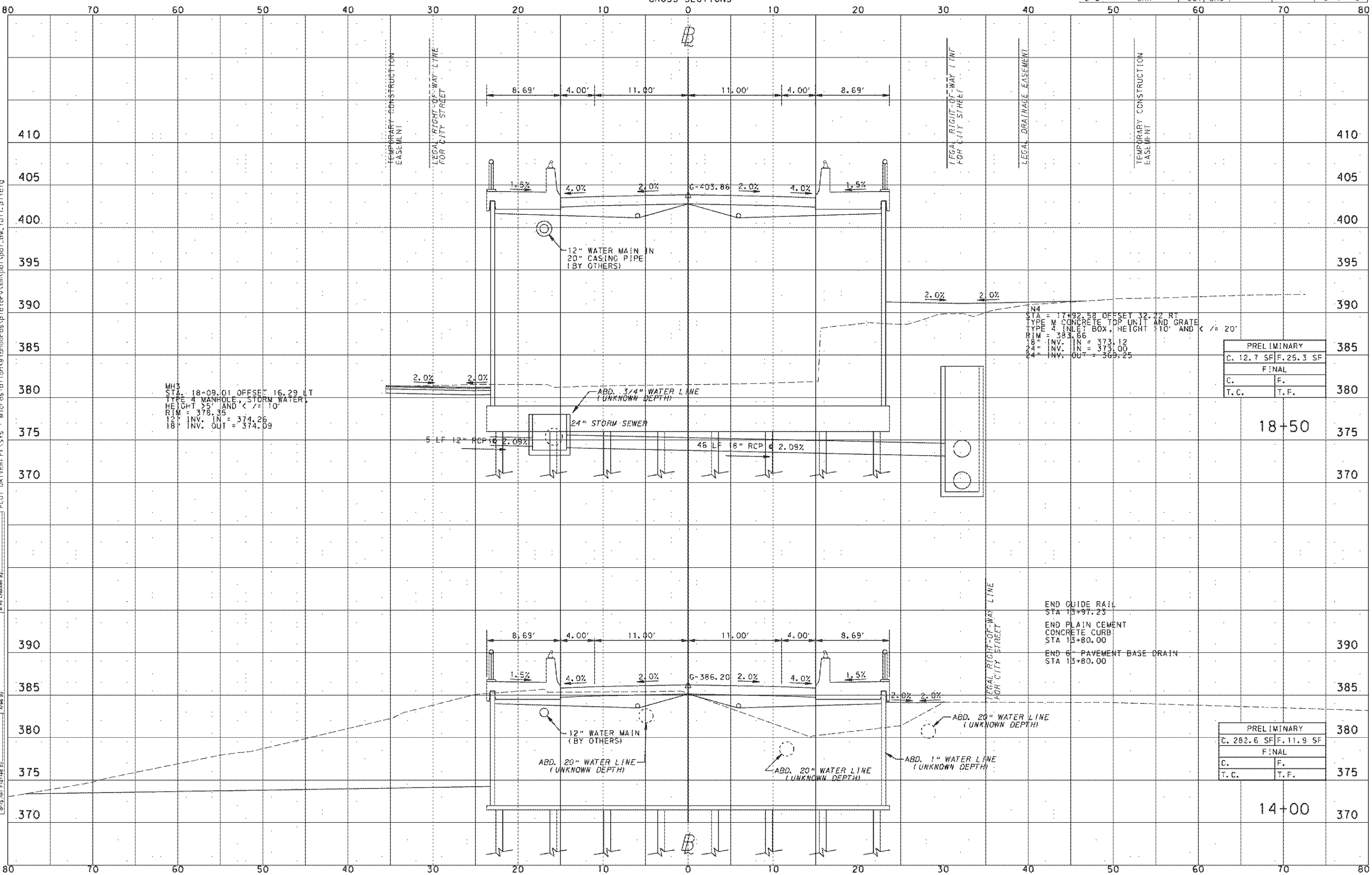
8-0	YORK	7301	BRG			3 OF 6



SCALE: 1 INCH = 5 FEET

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Application No. | Route No. | Original Plotted By | Original Checked By | Template By | Area By | Finals Plotted By | Finals Checked By | Area By | Area Checked By

PENNSYLVANIA DEPARTMENT OF TRANSPORTATION

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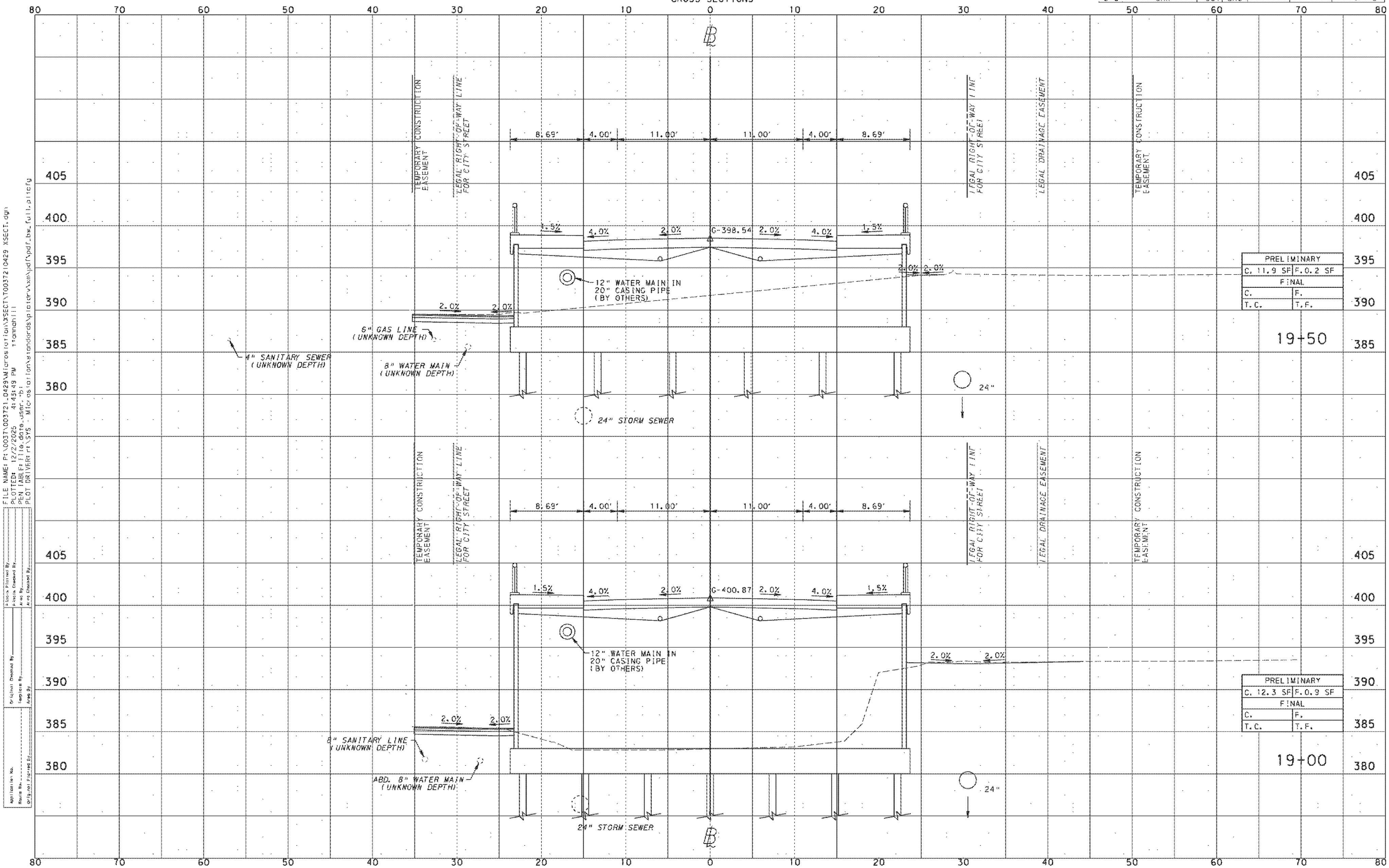
8-0	YORK	7301	BRC			4 OF 6



TEMPORARY CONSTRUCTION EASEMENT
LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
LEGAL DRAINAGE EASEMENT
8.69'
4.00'
11.00'
1.5%
4.0%
2.0%
G-398.54
12" WATER MAIN IN 20" CASING PIPE (BY OTHERS)
6" GAS LINE (UNKNOWN DEPTH)
4" SANITARY SEWER (UNKNOWN DEPTH)
8" WATER MAIN (UNKNOWN DEPTH)
24" STORM SEWER
24"
PRELIMINARY
C. 11.9 SF
F. 0.2 SF
FINAL
C.
F.
T.C.
T.F.
19+50
G-400.87
8" SANITARY LINE (UNKNOWN DEPTH)
ABD. 8" WATER MAIN (UNKNOWN DEPTH)
C. 12.3 SF
F. 0.9 SF
19+00

SCALE: 1 INCH = 5 FEET

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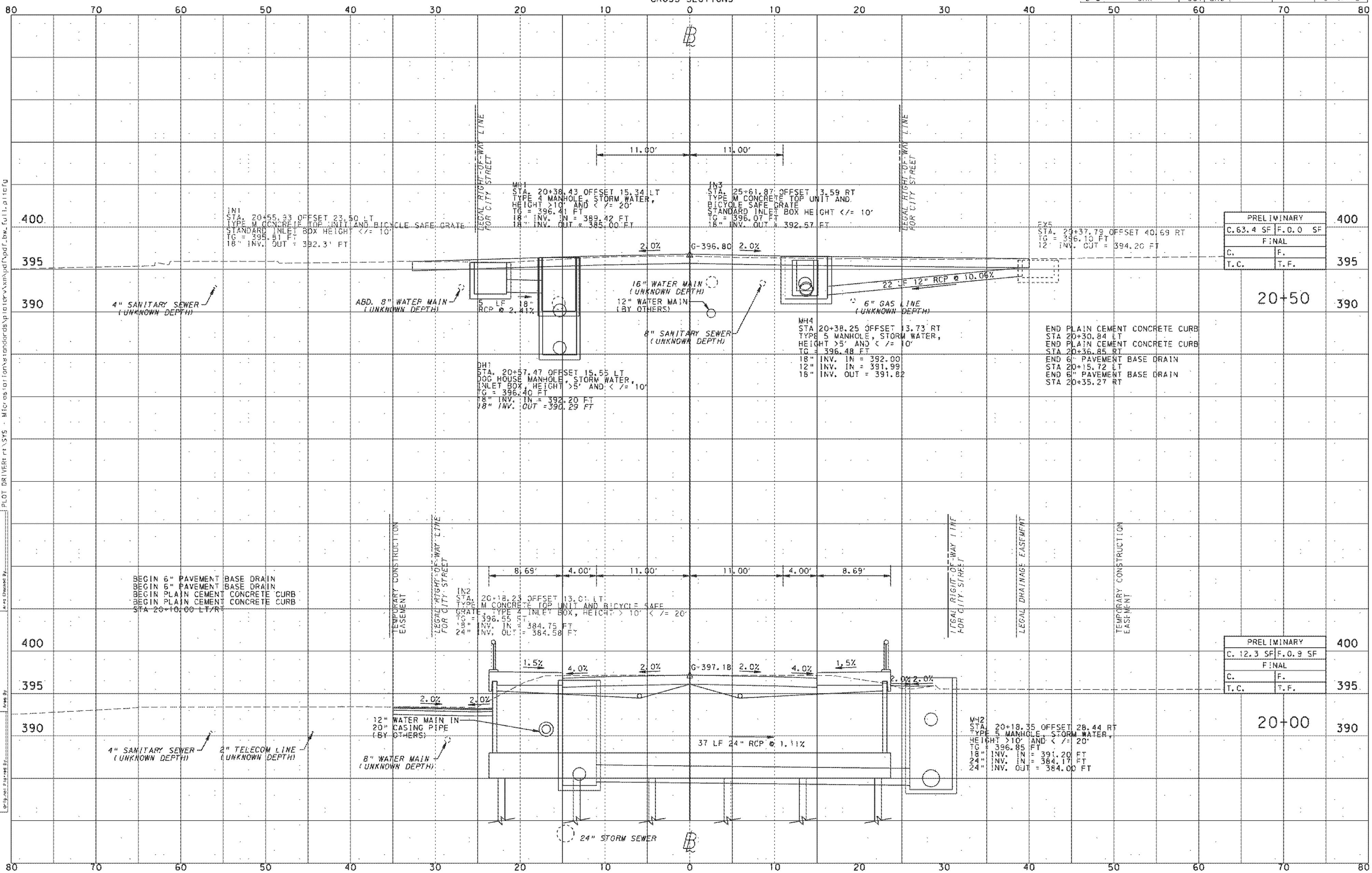
8-0	YORK	7301	BRG			5 OF 6



11.00'
11.00'
LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
MH1
STA. 20+38.43 OFFSET 15.34 LT
TYPE 4 MANHOLE, STORM WATER,
HEIGHT >10' AND < /= 20'
TG = 396.41 FT
18" INV. IN = 389.42 FT
18" INV. OUT = 385.00 FT
IN3
STA. 25+61.87 OFFSET 3.59 RT
TYPE M CONCRETE TOP UNIT AND
BICYCLE SAFE GRATE
STANDARD INLET BOX HEIGHT </= 10'
TG = 396.07 FT
18" INV. OUT = 392.57 FT
IN1
STA. 20+55.93 OFFSET 23.50 LT
TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE GRATE
STANDARD INLET BOX HEIGHT </= 10'
TG = 395.61 FT
18" INV. OUT = 392.3' FT
EX5
STA. 20+37.79 OFFSET 40.69 RT
TG = 396.10 FT
12" INV. OUT = 394.20 FT
2.0%
G-396.80
2.0%
PRELIMINARY
C.63.4 SF
F.0.0 SF
FINAL
C.
F.
T.C.
T.F.
20+50
4" SANITARY SEWER (UNKNOWN DEPTH)
ABD. 8" WATER MAIN (UNKNOWN DEPTH)
5 LF 18" RCP @ 2.41%
16" WATER MAIN (UNKNOWN DEPTH)
12" WATER MAIN (BY OTHERS)
8" SANITARY SEWER (UNKNOWN DEPTH)
22 LF 12" RCP @ 10.06%
6" GAS LINE (UNKNOWN DEPTH)
MH4
STA 20+38.25 OFFSET 13.73 RT
TYPE 5 MANHOLE, STORM WATER,
HEIGHT >5' AND < /= 10'
TG = 396.48 FT
18" INV. IN = 392.00
12" INV. IN = 391.99
18" INV. OUT = 391.82
END PLAIN CEMENT CONCRETE CURB
STA 20+30.84 LT
END PLAIN CEMENT CONCRETE CURB
STA 20+36.85 RT
END 6" PAVEMENT BASE DRAIN
STA 20+15.72 LT
END 6" PAVEMENT BASE DRAIN
STA 20+35.27 RT
DH1
STA. 20+57.47 OFFSET 15.55 LT
DOG HOUSE MANHOLE, STORM WATER,
INLET BOX, HEIGHT >5' AND < /= 10'
TG = 396.40 FT
18" INV. IN = 392.20 FT
18" INV. OUT = 390.29 FT
BEGIN 6" PAVEMENT BASE DRAIN
BEGIN 6" PAVEMENT BASE DRAIN
BEGIN PLAIN CEMENT CONCRETE CURB
BEGIN PLAIN CEMENT CONCRETE CURB
STA 20+10.00 LT/RT
TEMPORARY CONSTRUCTION EASEMENT
LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
8.69'
4.00'
11.00'
11.00'
4.00'
8.69'
IN2
STA. 20+18.23 OFFSET 13.01 LT
TYPE M CONCRETE TOP UNIT AND BICYCLE SAFE
GRATE, TYPE 4 INLET BOX, HEIGHT > 10' < /= 20'
TG = 396.55 FT
18" INV. IN = 384.75 FT
24" INV. OUT = 384.58 FT
LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
LEGAL DRAINAGE EASEMENT
TEMPORARY CONSTRUCTION EASEMENT
1.5%
4.0%
2.0%
G-397.18
2.0%
4.0%
1.5%
2.0%
2.0%
2.0%
2.0%
PRELIMINARY
C. 12.3 SF
F.0.9 SF
FINAL
C.
F.
T.C.
T.F.
20+00
12" WATER MAIN IN 20" CASING PIPE (BY OTHERS)
37 LF 24" RCP @ 1.11%
MH2
STA. 20+18.35 OFFSET 28.44 RT
TYPE 5 MANHOLE, STORM WATER,
HEIGHT >10' AND < /= 20'
TG = 396.85 FT
18" INV. IN = 391.20 FT
24" INV. IN = 384.17 FT
24" INV. OUT = 384.00 FT
4" SANITARY SEWER (UNKNOWN DEPTH)
2" TELECOM LINE (UNKNOWN DEPTH)
8" WATER MAIN (UNKNOWN DEPTH)
24" STORM SEWER

SCALE: 1 INCH = 5 FEET

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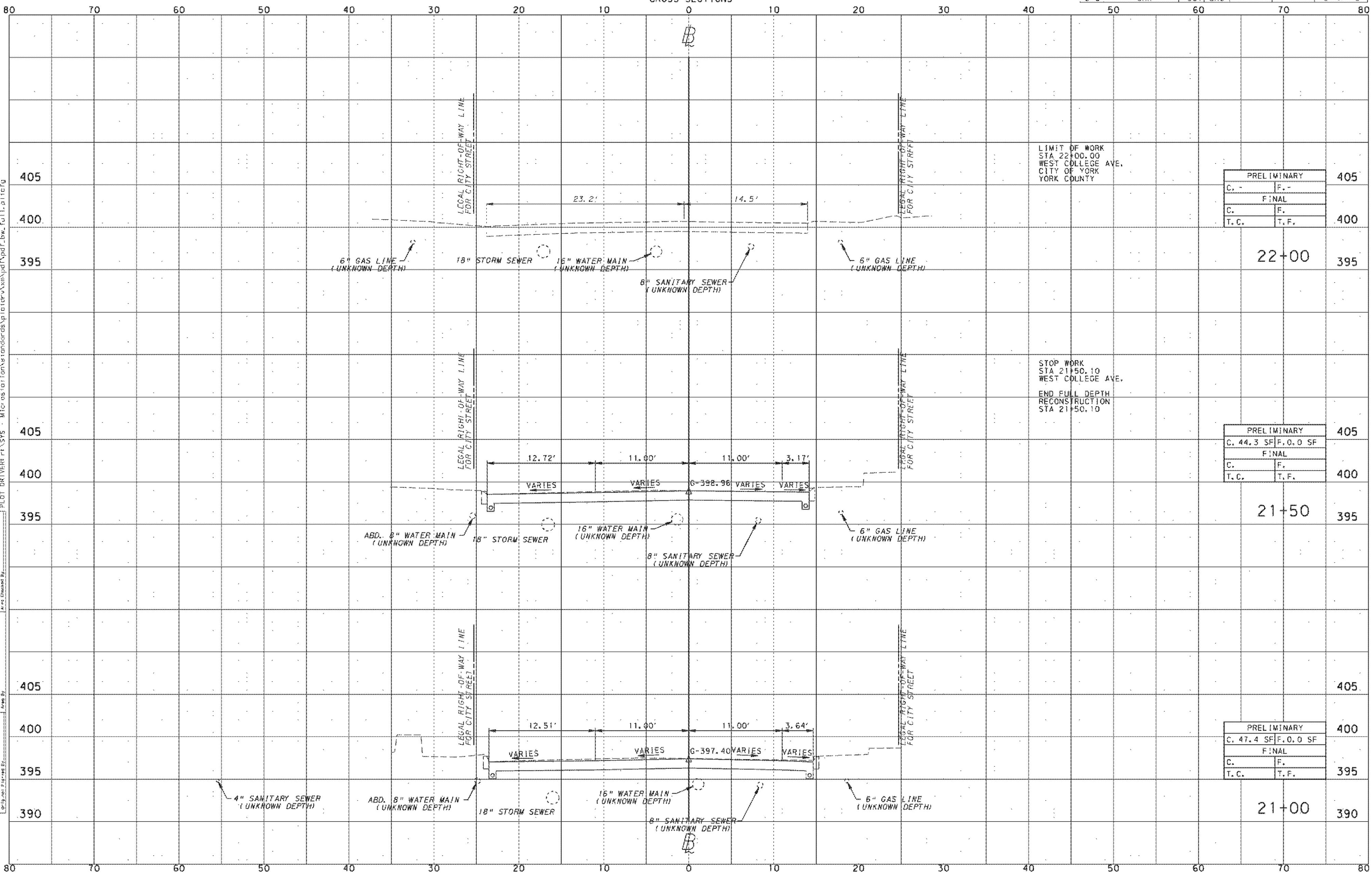
LIMIT OF WORK
STA 22+00.00
WEST COLLEGE AVE.
CITY OF YORK
YORK COUNTY
LEGAL RIGHT-OF-WAY LINE FOR CITY STREET
23.2'
14.5'
6" GAS LINE (UNKNOWN DEPTH)
18" STORM SEWER
16" WATER MAIN (UNKNOWN DEPTH)
8" SANITARY SEWER (UNKNOWN DEPTH)
PRELIMINARY
C. -
F. -
FINAL
C.
F.
T.C.
T.F.
22+00
STOP WORK
STA 21+50.10
WEST COLLEGE AVE.
END FULL DEPTH
RECONSTRUCTION
STA 21+50.10
12.72'
11.00'
11.00'
3.17'
VARIES
G-398.96
ABD. 8" WATER MAIN (UNKNOWN DEPTH)
C. 44.3 SF
F. 0.0 SF
21+50
12.51'
3.64'
G-397.40
4" SANITARY SEWER (UNKNOWN DEPTH)
C. 47.4 SF
F. 0.0 SF
21+00

SCALE: 1 INCH = 5 FEET