



BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION

Rail Safety Division Application Type (check all that apply):

- E-Installation, removal or substitution of warning devices at a public crossing
- G-Construction, alteration, relocation, abolition or suspension of a public crossing
- P-Installation of traffic signals with preemption on the approach to a public crossing
- W-Installation of a fixed utility company's facilities at a public crossing (Pipe & Wire)
- X-Exemption from the Commission's railroad clearance requirement

Application Docket No.
To Be Assigned

For Applications E/G/P/W use caption 1, for X use caption 2 (delete unused caption):

In re:

(1) Application of Somerset County for approval to alter the public crossing (DOT #529 155H) by the replacement of the existing bridge on T-712 Whispering Pines Road located approximately 40' east of the at-grade crossing with Norfolk Southern's Shade Creek Branch single track line in Shade Township, Somerset County (Lat/Long 40.134385/ -78.81427, RR MP SY-29.23).

To Pennsylvania Public Utility Commission:

1. The name, address, telephone number, and e-mail address of the applicant are:

Brian Fochtman, Chairman
Somerset County Commissioners
300 N Center Ave Suite 500
Somerset, PA 15501
814-445-1401
fochtmanb@co.somerset.pa.us

2. The name, address, telephone number, and e-mail address of the applicant's attorney are:

Ben Carroll
Carroll Law Offices
160 W Main St, PO Box 604
Somerset, PA 15501
814-443-4096
carroll.law@comcast.net

3. The applicant is a local government entity that owns and maintains the existing bridge that conveys T-712 over Dark Shade Creek. The existing bridge is currently closed to traffic due to the condition of the substructure. The County needs to replace the bridge to restore vehicular access through the area for the public.

4.

This project consists of the replacement of the existing bridge on T-712 (Whispering Pines Road) over Derk Shede Creek. The structure is owned and maintained by the County. The project is a Local, Minor Project administered by PennDOT for the local entity/owner (Somerset County). The bridge is in a rural setting. The existing single-span, steel pony truss structure sits on stone masonry abutments and was posted as a one-lane bridge with a 3-ton weight limit prior to its closure in 2025. The bridge is on a 90-degree skew to the creek. An active Norfolk Southern railroad runs parallel to Derk Shede Creek through the project area. There is an at-grade crossing on T-712 approximately 40 feet west of the western bridge abutment. There is a very steep descending vertical grade between the at-grade railroad crossing and the bridge and both the western and eastern approaches have sharp horizontal curves. The project will be a full replacement of the bridge including the substructure. The proposed structure will be a single span, one-lane structure on new abutments in the same approximate location. The structure will be a P/S Concrete Spread Box Beam Bridge. The project also includes raising the profile to reduce the vertical grade differential between the railroad crossing and the structure. The project includes approach roadway reconstruction and guide rail updates. Pavement updates will extend approximately 107' from the structure on the near approach and approximately 242' after the structure on the far approach. The proposed roadway will have 8' lanes that taper to match existing. The bridge will be 15'-8" in width. Mill and overlay is proposed up to within 2' of the at grade crossing from the west end full depth pavement replacement will begin 2' after the crossing on the east. The width and elevation of the crossing will not change. The traffic control method during construction will be via the detour that is already in place due to the bridge closure. The existing and proposed bridges both pass the 100-year flood event and the approach roadways are not overtopped. Overall drainage at the site will not be altered by the project.

There are documented sight conflicts from vegetation and a rock outcropping that runs along the western approach. Conflicts with vegetation will be eliminated by clearing activities necessary to construct the project. Conflicts with the rock outcropping will remain. To alleviate this, a stop sign is proposed on the western approach at least 15' from the nearest rail. Signs for this location will include a RR crossbuck and a bracketed Stop Sign. An advanced warning Stop Ahead sign will be placed 100' back of the Stop point. One Lane Bridge, RR Advance, and No Lights or Gates signs will be placed 100' back of the Stop Ahead sign.

The legal right-of-way on SR 7220 Sec 712 (Whispering Pines Road) is thirty-three (33) feet. Pennsylvania Lines, LLC is the deed owner of Parcel 1, the property that encompasses the railroad currently operated by Norfolk Southern that runs parallel to the creek. The property line extends to the western abutment of the existing bridge. The area within the legal right-of-way for Whispering Pines Road that traverses through Parcel 1 is shared property between Shade Township and the railroad. The proposed permanent right of way take from this parcel is proposed as an Easement for Highway Purposes. There will also be a Temporary Construction Easement (TCE) and a small triangular TCE that will be restricted to an aerial easement for the temporary electric line relocation. The permanent right-of-way takes are proposed for the new wingwalls and rock slopes. The TCE's are proposed for excavation, construction access, crane movements, causeway construction, E&S measures, and utility relocations.

A methane gas line is in a casing pipe in a bore beneath the railroad that daylight and attaches to the existing truss (Montauk Energy). Montauk has indicated they would like to relocate their line 300 feet south of the bridge and outside the project area. There are overhead electric (Penelec) and telecommunication (Verizon) lines parallel to the structure on the north side. These will need to be relocated during construction.

There are no documented safety issues but only anecdotal evidence of the bridge being hit based on the NBIS bridge inspection findings. These anecdotal issues pertain to the narrow width of the existing bridge and the steep grade, both of which will be eliminated by the new structure.

Construction of the bridge will require a causeway that extends the entire width of the creek. The causeway was designed to accommodate a crane if necessary. Shoring is needed on the west side of the creek to avoid impacting the railroad. No access roads or temporary bridges will be required. Access for the contractor during construction will be possible from either approach but it is assumed most will come from the SR 160 (eastern) side. There are no in-stream work restrictions and no tree cutting restrictions. The project is anticipated to be let as a Design-Bid-Build. The current let date is in September 2026 with construction from Spring 2027 to Fall 2027. Refer to the attached Project Location Map and Design Field View Plans (80% Design Plans).

5. The parties that may be affected by the proposed alteration are as follows (see attached Certificate of Service):

The Pennsylvania Department of Transportation, Somerset County, Shade Township, Norfolk Southern Corporation, Pennsylvania Electric Company (Electric), Verizon (Telecomm), and Montauk Renewables (Gas).

6. Whispering Pines Road is a rural, local road (T-712), which carries a projected traffic ADT of 58 (Design Year 2047). The roadway currently has a 15-mph speed limit. The traffic volumes are from a traffic count conducted in 2021. T-712 has 2% truck traffic and a lane distribution of 60%. According to the D-4279A Form from Norfolk Southern, there are up to 1 freight trains per day traveling at 5-15 mph at this crossing.

7. The estimated construction cost at the 60% stage of design is \$2,900,000. Funding is 80% federal, 15% state and 5% local. The contractor has not been selected for the project. EADS will be responsible for construction inspection. Somerset County will be responsible for future maintenance.

8. The application is necessary or proper for the following reason(s):

The Project Purpose is to provide a safe crossing of Dark Shade Creek on Whispering Pines Road (T-712) that addresses the substandard design elements in the project area, ensures the timeliness of emergency services' responses, and maintains the efficiency of mobility for the local residents and traveling public. The existing structure is deteriorated and in serious overall condition. Prior to June 2025, it had a 3-ton weight limit. Following a post flood inspection in June 2025, the bridge was closed. There are existing substandard design elements with the existing roadway (bridge width, vertical grade, horizontal radius, superelevation, stopping sight distance, and guide rail length). Emergency services vehicles (fire trucks and ambulances) could not use the bridge even prior to the closure due to the weight limit, narrow bridge width, and geometry of the roadway. A bridge replacement is needed to provide a safe crossing that provides an efficient transportation link for passenger vehicles and utility infrastructure.

Wherefore, we pray your Honorable Commission to approve the application:

(Signature of Applicant)

VERIFICATION

I, **Brian Fochtman**, hereby state that the facts above set forth are true and correct (or are true and correct to the best of my knowledge, information and belief) and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa. C.S. § 4904 (relating to unsworn falsification to authorities).

10/16/25 

Date

(Signature)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants, listed below, in accordance with the requirements of § 1.54 (relating to service by participant).

The EADS Group, Inc. (County Engineer)
Kelly Jones, PE, Project Manager
450 Aberdeen Dr
Somerset, PA 15501
814-445-6551
kjones@eadsgroup.com

Johnson, Mirmiran & Thompson, Inc.
(Consultant Utility Coordinator)
Kristen Sklarsky, PE
Marquis Corporate Center Two
5313 Campbells Run Road, Suite 100
Pittsburgh, PA 15205
412-375-5118
ksklarsky@jmt.com

Shade Township
Darrell Klink, Supervisor
269 Sandplant Rd
Cairnbrook, PA 15926
814-754-4622
shadetwp@gmail.com

Pennsylvania Department of
Transportation
Engineering District 9-0
1620 North Juniata Street
Hollidaysburg, PA 16648
Nathan Milazzo, PE, Project Manager,
namilazzo@pa.gov, 814-696-7159

Pennsylvania Department of
Transportation
Engineering District 9-0
1620 North Juniata Street
Hollidaysburg, PA 16648
Vince Greenland, PE, District Executive,
VGREENLAND@pa.gov

Pennsylvania Department of Transportation
Engineering District 9-0
1620 North Juniata Street
Hollidaysburg, PA 16648
Ryan Dodson, District Grade Crossing
Manager, rydodson@pa.gov

Pennsylvania Department of Transportation
Bureau of Design and Delivery, Right-of-Way,
Utilities, and Grade Crossing Division
P.O. Box 3362
Harrisburg PA 17105-3362
Mark J. Chappell, PE, Chief,
MARCHAPPEL@pa.gov, 717-787-6934

Governor's Office of General Counsel
Karen Cummings, Senior Counsel
Department of Transportation
Office of Chief Counsel
400 North Street
PO Box 8212
Harrisburg, PA 17105-8212
717-787-3128
kcummings@pa.gov

Norfolk Southern Corporation
Shawn Starling, PE, NS File CX1114385
Senior Engineer Public Improvements
1200 Peachtree Street N.E.
Atlanta, GA 30309
404-527-2536
Douglas.Starling@nscorp.com
cc: Jayne Marks, AECOM, jayne.marks@
aecom.com

(Continues next page)

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants, listed below, in accordance with the requirements of § 1.54 (*relating to service by participant*).

Pennsylvania Electric Company (Electric)
Cody Trabert
311 Industrial Park Road
Somerset, PA 15501
814-421-9617
ctrabert@firstenergycorp.com

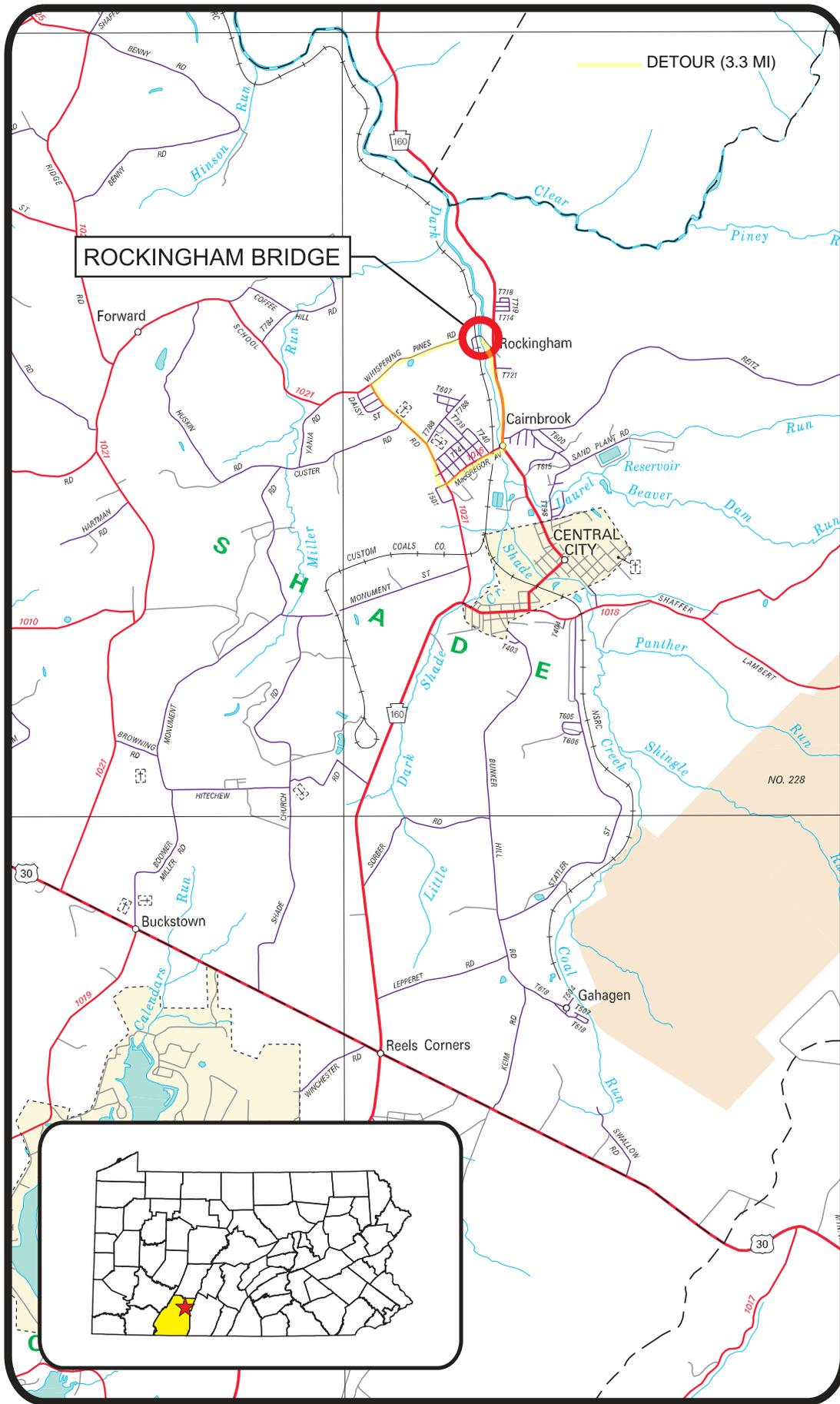
Montauk Renewables (Gas)
Joseph Zelenski and Anna Tallmadge
368 Sandplant Rd
Cairnbrook, PA 15924
arosswoj@montaukrenewables.com,
jzelenski@montaukrenewables.com
724-816-4898
cc: Tim Zeuger, Roach & Associates
twzeuger@roachassoc.com

Verizon (Telecomm)
Jerry Downing
1119 16th St, 2nd Floor Room 20012
Altoona, PA 16601
Gerald.Downing@verizon.com
814-330-6458
cc: Robert Preston, Robert.Preston@
cyient.com, 304-670-9999

Dated this 16th day of October, 2025



(Signature)



ROCKINGHAM BRIDGE

DETOUR (3.3 MI)



LOCATION MAP
SOMERSET COUNTY BRIDGE NO. 56
T-712, WHISPERING PINES ROAD
OVER DARK SHADE CREEK
SHADE TWP., SOMERSET COUNTY
 REF: SOMERSET COUNTY, PA
 TYPE 10 GENERAL HIGHWAY MAP



SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 1: Near Approach, stations ahead



Photograph 2: Near Approach, prior to railroad tracks

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 3: Far Approach, stations back



Photograph 4: Far Approach, stations ahead

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 5: View of near-left quadrant - note gas line, utility pole, and drainage pipe.



Photograph 6: View of near-right quadrant.

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 7: View of far-right quadrant.

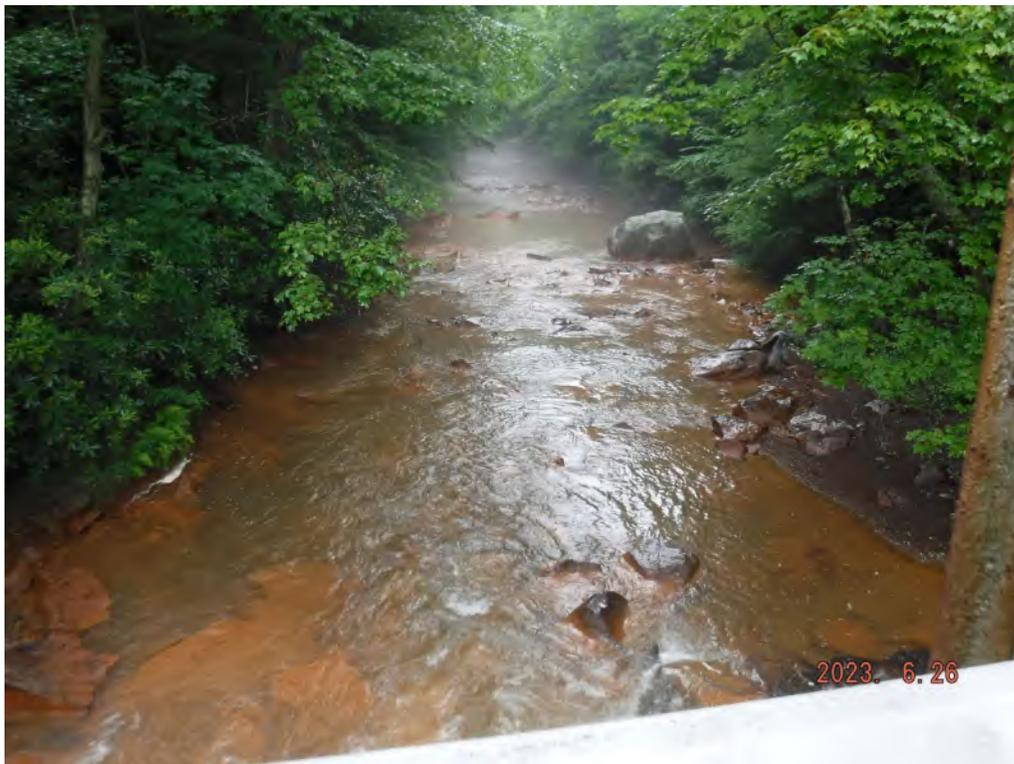


Photograph 8: View of far-left quadrant

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 9: Upstream view of Dark Shade Creek from existing structure.



Photograph 10: Downstream view of Dark Shade Creek from existing structure.

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 11: View of railroad tracks southbound



Photograph 12: View of railroad tracks northbound

SR 7220 Sec 712 (Whispering Pines Road) Photographs
Shade Township, Somerset County, Pennsylvania



Photograph 13: Upstream Elevation View



Photograph 14: Driveway to pump station & Parcel # 4.

PLAN PREPARATION

SENIOR PROJECT MANAGER: MELISSA A. IRWIN, P.E.
 PROJECT MANAGER: NATHAN J. MILAZZO, P.E.

DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
9-0	SOMERSET	SHADE	-	7220	712	9

ECMS NO 72477

ALSO INCLUDED:

TRAFFIC CONTROL PLAN	4 SHEETS
EROSION AND SEDIMENT POLLUTION CONTROL PLAN	9 SHEETS
STRUCTURE PLANS	6 SHEETS
CROSS SECTIONS	10 SHEETS

SOMERSET COUNTY

DESIGN FIELD VIEW SUBMISSION

FOR

T-712 SEC 712
 WHISPERING PINES ROAD

IN SOMERSET COUNTY

FROM STA 1200+50.00 TO STA 205+60.00 LENGTH 410.00 FT 0.078 MI

SCALE

HORIZONTAL  0 25 50 FEET

VERTICAL  0 5 10 FEET

DESIGN DESIGNATION

HIGHWAY CLASSIFICATION
 DESIGN SPEED
 PAVEMENT WIDTH
 SHOULDER WIDTH

LOCAL ROAD- RURAL
 15 MPH
 8'-0" LANES LT & RT
 0'-0" LT & RT

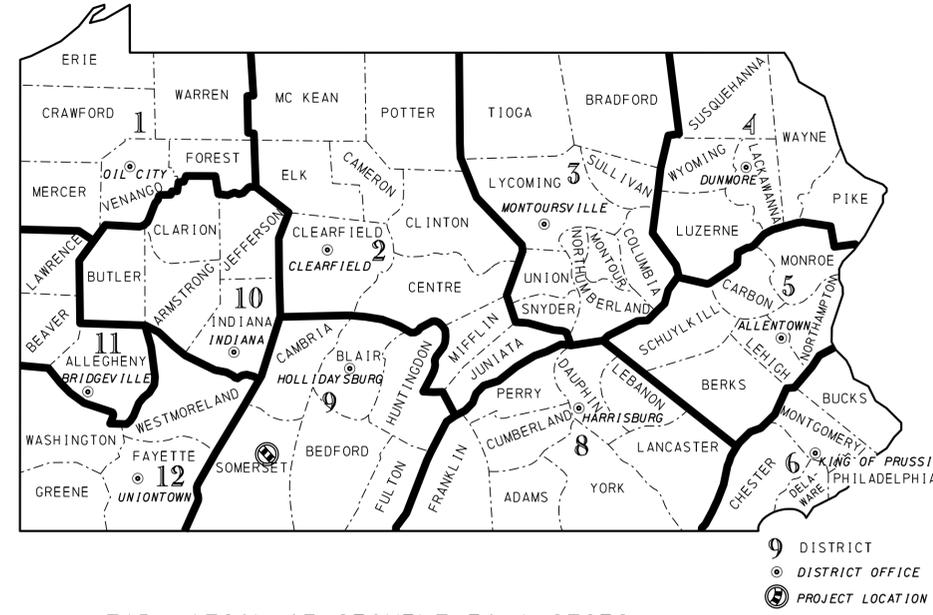
TRAFFIC DATA:

CURRENT A. D. T. -54 (2027)
 DESIGN YR A. D. T. -58 (2047)
 DHV - 7
 D - 60%
 T - 2%

THE EADS GROUP 450 ABERDEEN DRIVE SOMERSET, PA 15501  PRELIMINARY	RECOMMENDED	DATE: _____
	DISTRICT EXECUTIVE	
APPROVED	DATE: _____	
PROJECT MANAGER DATE: 6/19/25		SOMERSET COUNTY COMMISSIONER, CHAIRPERSON

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	2 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SHEET INDEX BLOCK	
DESCRIPTION	SHEET
TITLE SHEET	1
INDEX MAP	2
GENERAL NOTES	3
TYPICAL SECTIONS	4
DETAILS	5-7
PLAN SHEET	8
PROFILE SHEET	9



TABULATION OF SEGMENT EQUALITIES
N/A

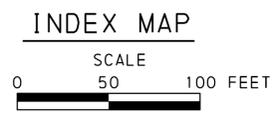
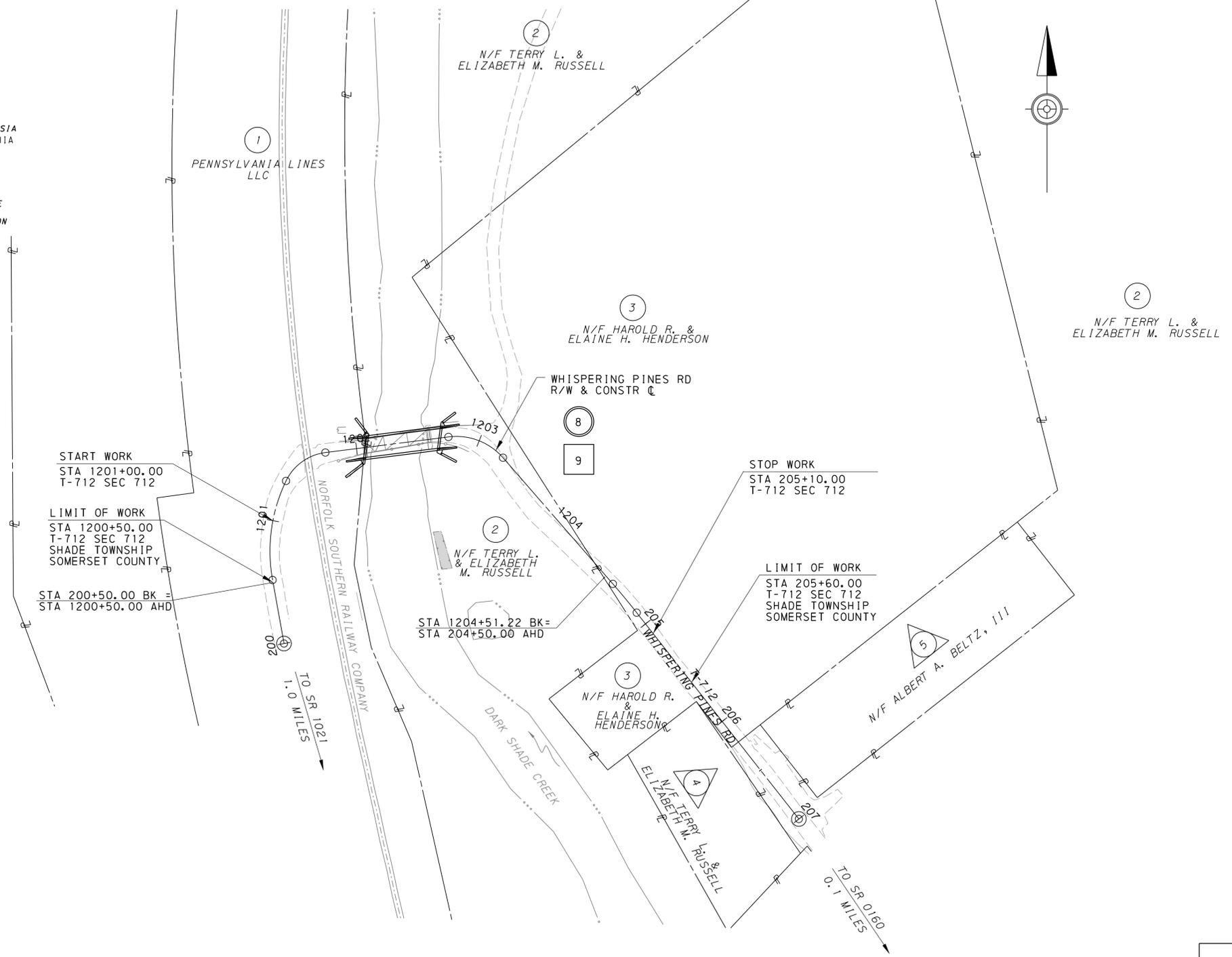
LIST OF PROPERTY OWNERS

- ① PENNSYLVANIA LINES LLC *
- ② N/F TERRY L. & ELIZABETH M. RUSSELL
- ③ N/F HAROLD R. & ELAINE H. HENDERSON
- ④ N/F TERRY L. & ELIZABETH M. RUSSELL
- ⑤ N/F ALBERT A. BELTZ, III

* PENNSYLVANIA LINES LLC IS d/b/a NORFOLK SOUTHERN RAILWAY COMPANY

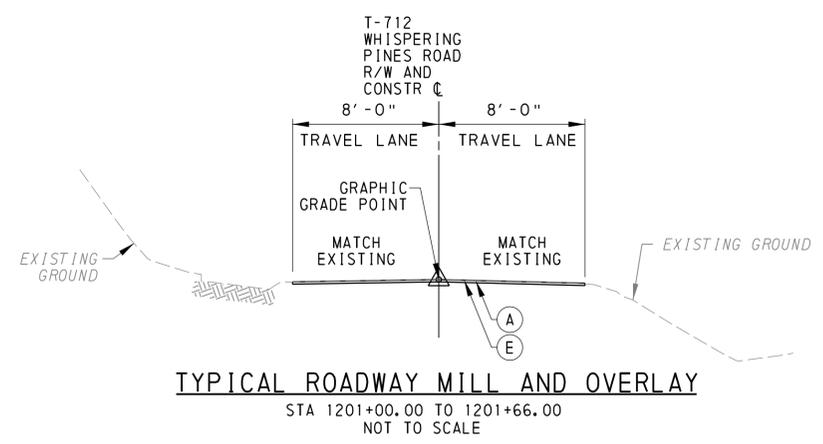
LEGEND

- PLAN
- PROFILE
- PARCEL IDENTIFICATION NUMBER
- △ PARCEL IDENTIFICATION NUMBER - NO TAKE

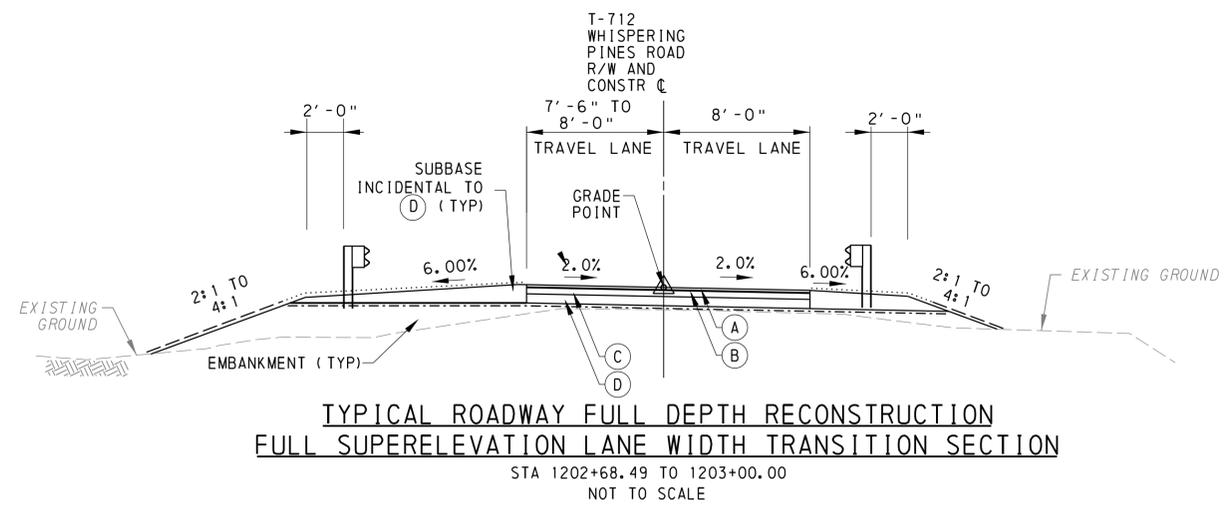


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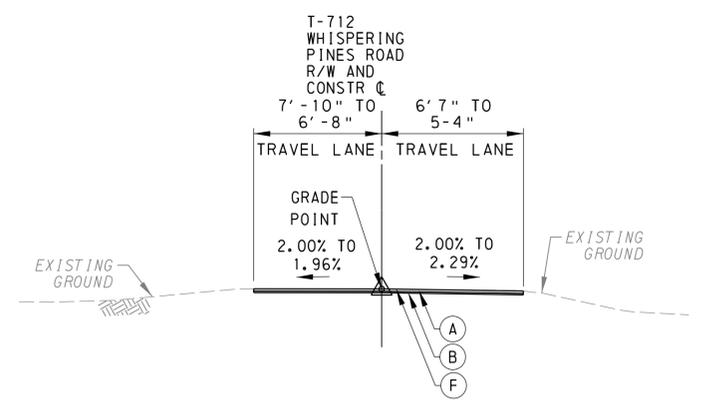
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	4 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



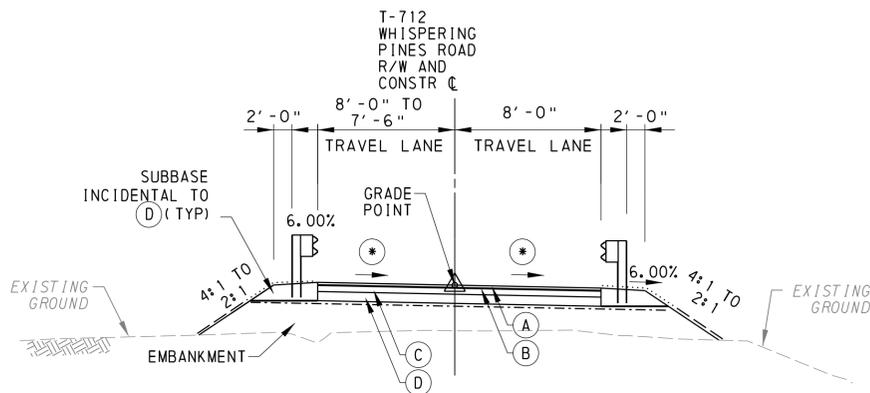
TYPICAL ROADWAY MILL AND OVERLAY
STA 1201+00.00 TO 1201+66.00
NOT TO SCALE



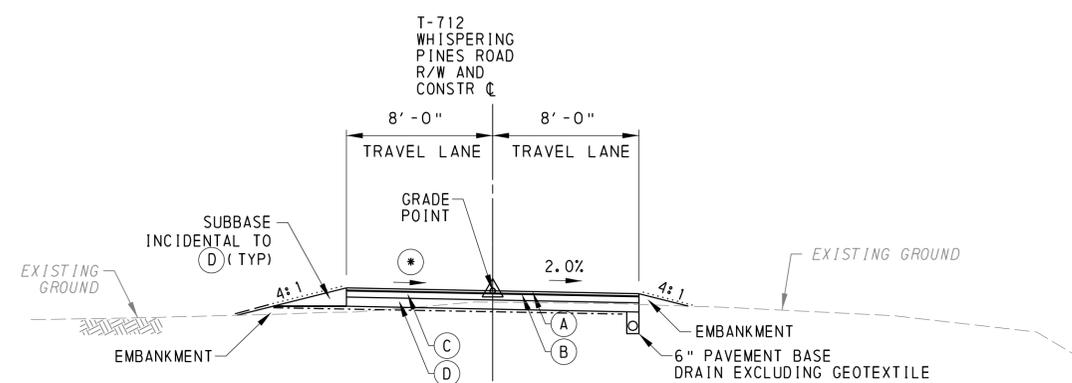
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FULL SUPERELEVATION LANE WIDTH TRANSITION SECTION**
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NOT TO SCALE



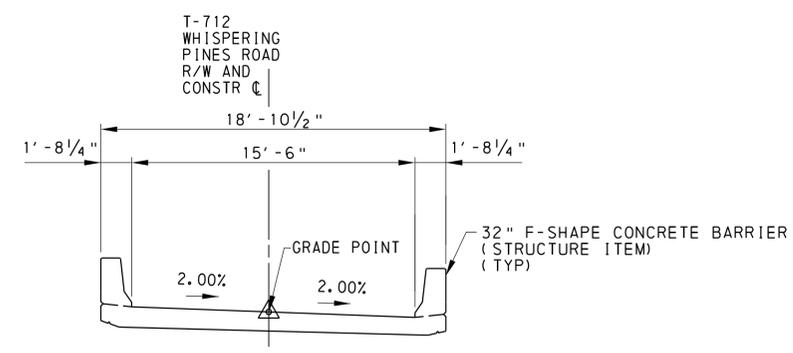
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NOT TO SCALE



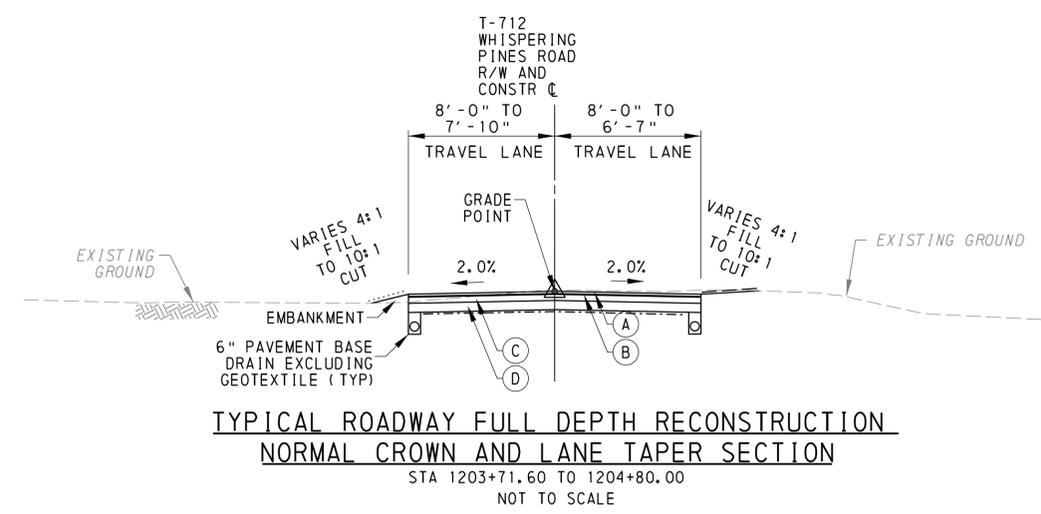
**TYPICAL ROADWAY FULL DEPTH RECONSTRUCTION
CROSS SLOPE AND LANE WIDTH TRANSITION**
STA 1201+66.00 TO 1202+06.93
NOT TO SCALE



**TYPICAL ROADWAY FULL DEPTH RECONSTRUCTION
FULL SUPERELEVATION AND TRANSITION SECTION**
STA 1203+00.00 TO 1203+71.60
NOT TO SCALE



TYPICAL BRIDGE SECTION
STA 1202+06.93 TO 1202+68.49
NOT TO SCALE



**TYPICAL ROADWAY FULL DEPTH RECONSTRUCTION
NORMAL CROWN AND LANE TAPER SECTION**
STA 1203+71.60 TO 1204+80.00
NOT TO SCALE

*** T-712 WHISPERING PINES ROAD ROADWAY CROSS SLOPES**

STATION TO STATION	LEFT	RIGHT
1201+00.00 TO 1201+66.00	MATCH EXISTING	MATCH EXISTING
1201+66.00 TO 1201+92.00	← 0.85% TO 2.00%	← 0.36% TO 2.00%
1201+92.00 TO 1203+30.57	← 2.00%	← 2.00%
1203+30.57 TO 1203+71.60	← 2.00% TO 2.00%	← 2.00%
1203+71.60 TO 1204+80.00	← 2.00%	← 2.00%
1203+71.60 TO 1204+80.00	← 2.00% TO 1.96%	← 2.00% TO 2.29%

LEGEND

- (A) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE, PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, 1/2" DEPTH, SRL-G
- (B) SUPERPAVE ASPHALT MIXTURE DESIGN, WEARING COURSE (LEVELING), PG 64S-22, < 0.3 MILLION ESALS, 9.5 MM MIX, SRL-L (120 LB/SY MIN)
- (C) SUPERPAVE ASPHALT MIXTURE DESIGN, BASE COURSE, PG 64S-22, < 0.3 MILLION ESALS, 25.0 MM MIX, 4" DEPTH
- (D) SUBBASE 6" DEPTH (NO. 2A)
- (E) MILLING OF ASPHALT PAVEMENT SURFACE, 1 1/2" DEPTH, MILLED MATERIAL RETAINED BY COUNTY (DELIVERED TO STOCKPILE)
- (F) MILLING OF ASPHALT PAVEMENT SURFACE, 2 1/2" DEPTH, MILLED MATERIAL RETAINED BY COUNTY (DELIVERED TO STOCKPILE)

- * = VARIES - SEE ROADWAY CROSS SLOPE TABLE
- GEOTEXTILE, CLASS 4, TYPE A
- ASPHALT PRIME COAT
- TOPSOIL, SEEDING AND SOIL SUPPLEMENTS

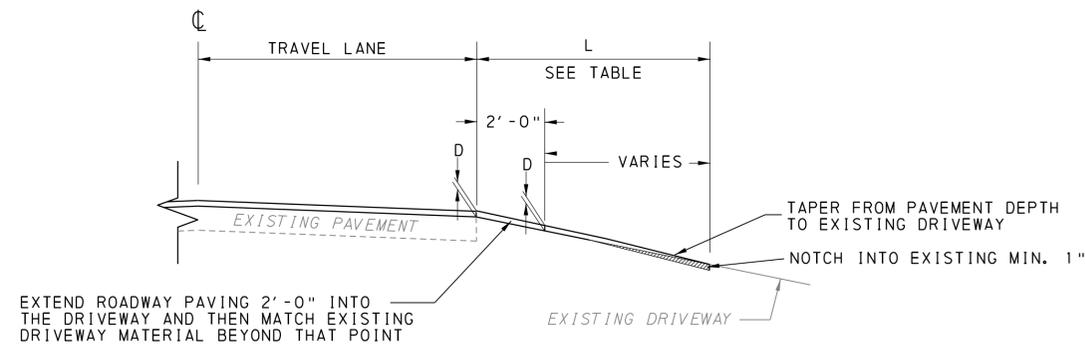
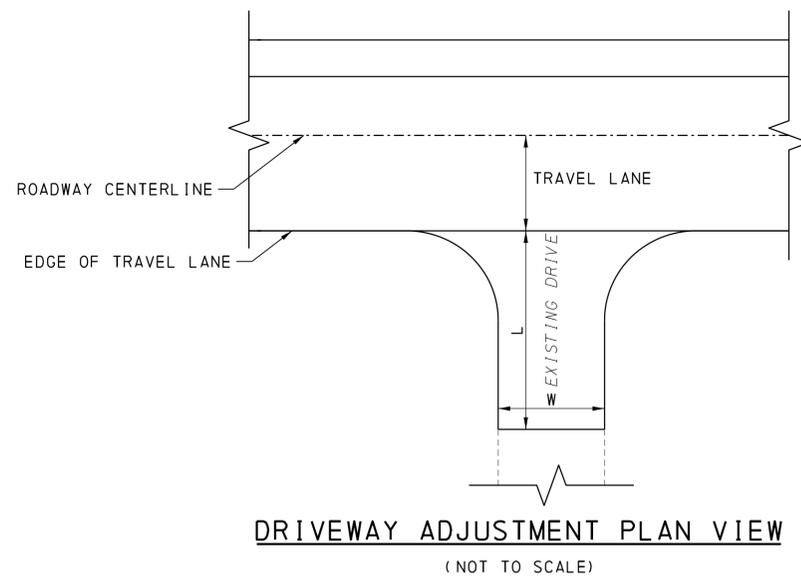
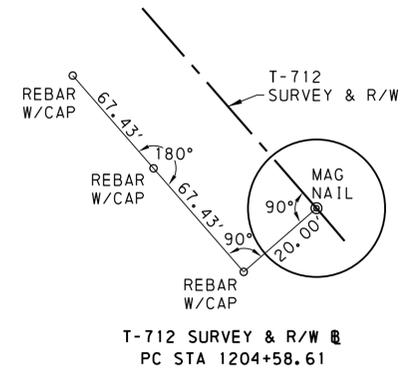
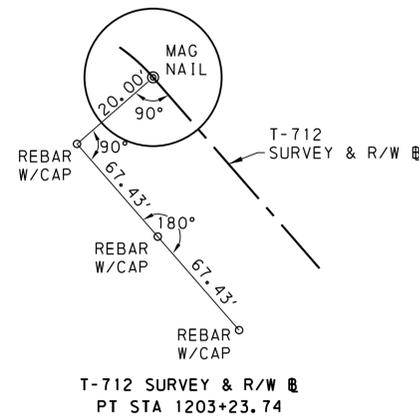
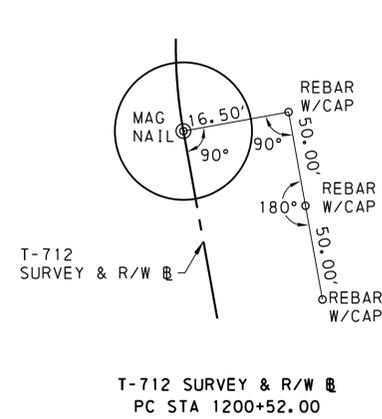
NOTES:

1. SEAL ALL LONGITUDINAL JOINTS WITH PG 64S-22 (INCIDENTAL TO WEARING COURSE).
2. PROVIDE ASPHALT TACK COAT (NTT/CNTT) BETWEEN EACH PAVEMENT LAYER (INCLUDING MULTIPLE LIFTS OF THE SAME ITEM) IN ACCORDANCE WITH PUB 408, SEC 460.
3. SUPERELEVATION ROTATES ABOUT THE CENTERLINE.
4. STOP GEOTEXTILE PRIOR TO PAVEMENT BASE DRAIN.

6/19/2025 11:21:05 AM R:\8000_Sm_Co2\441_T-712_ReedImpres Br\06_CADD\31_Temp\Plans_Constr\UPR\00_01_Typ\csl.tbl.scp



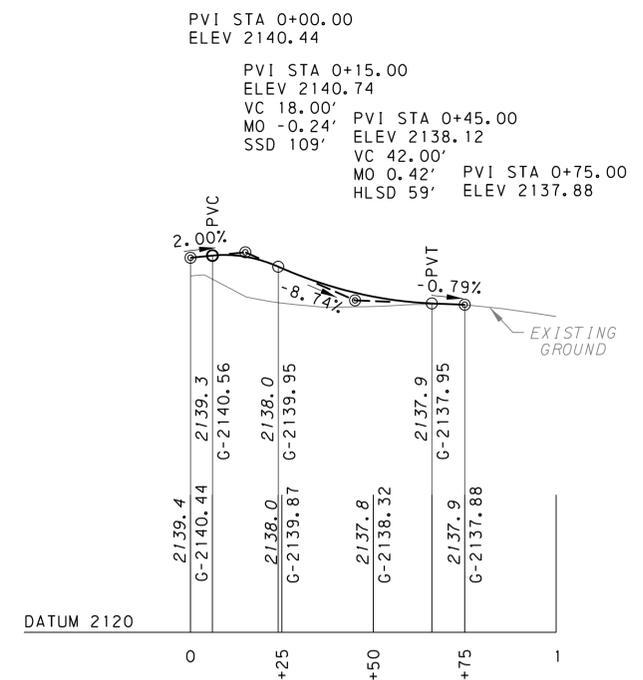
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	5 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



DRIVEWAY ADJUSTMENT PROFILE VIEW
(NOT TO SCALE)

STA	SIDE	L	W	NOTES
STA 1203+10.00	LT	57.0'	11.0'	SELECTED MATERIAL SURFACING

L - DRIVEWAY ADJUSTMENT LENGTH INCLUDING 10' TAPER
W - EXISTING DRIVEWAY WIDTH
D - DEPTH OF PAVEMENT AT EDGE OF LANE



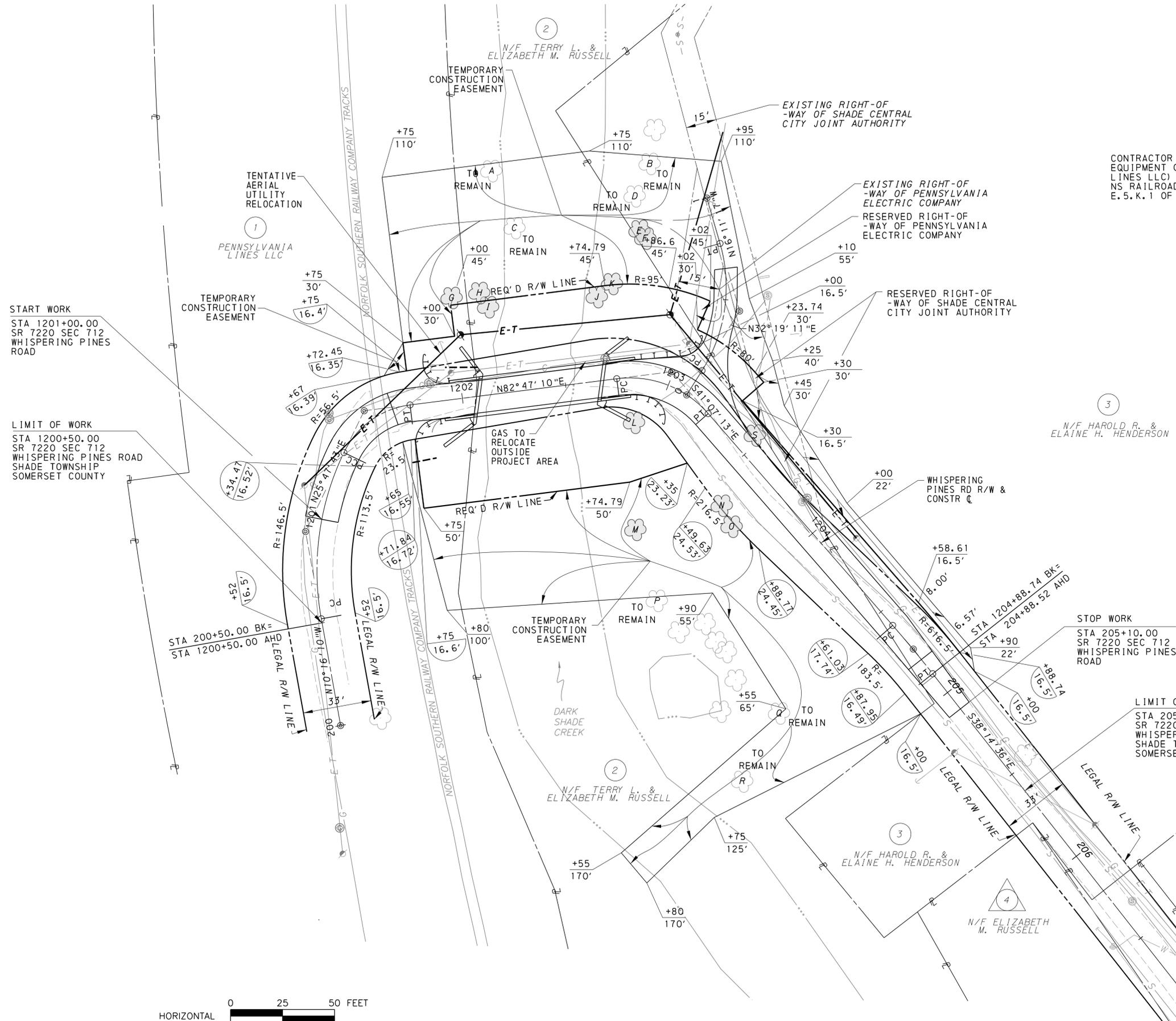
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	6 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



CONTRACTOR IS NOT PERMITTED TO STORE ANY EQUIPMENT ON NORFOLK SOUTHERN (NS) (PENNSYLVANIA LINES LLC) PROPERTY WITHOUT PERMISSION FROM THE NS RAILROAD ENGINEER IN ACCORDANCE WITH SECTION E.5.K.1 OF THE NS PUBLIC PROJECTS MANUAL.

TREE REMOVAL LISTING							
LABEL	PARCEL #/ R/W	STA	OFF (FT)	SIDE	SIZE (IN)	TYPE	TO REMAIN
A	2	1202+28	107	LT	14	BIRCH	YES
B	3	1202+84	103	LT	32	OAK	YES
C	2	1202+35	78	LT	14	QUAD MAPLE	YES
D	3	1202+82	87	LT	24	OAK	YES
E	3	1202+83	71	LT	12	UNK SPECIES	NO
F	3	1202+84	67	LT	14	HEMLOCK	NO
G	1	1202+01	49	LT	28	LOCUST	NO
H	2	1202+14	49	LT	14	MAPLE	NO
I	2	1202+18	42	LT	14	MAPLE	NO
J	2	1202+70	40	LT	14	MAPLE	NO
K	2	1202+77	46	LT	14	HEMLOCK	NO
L	2	1202+85	21	RT	14	MAPLE	NO
M	2	1203+43	63	RT	15	MAPLE	NO
N	LEGAL R/W	1203+61	24	RT	14	CHERRY STUMP	NO
O	2	1203+72	27	RT	16	LOCUST	NO
P	2	1203+75	77	RT	15	MAPLE	YES
Q	2	1204+54	69	RT	23	CHERRY	YES
R	2	1204+69	103	RT	15	MAPLE	YES
S	LEGAL R/W	1203+46	10	LT	12	PINE	NO



RIGHT-OF-WAY AND EASEMENT INFORMATION



SURVEY BOOK NO: G-709

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	7 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



START WORK
 STA 1201+00.00
 SR 7220 SEC 712
 WHISPERING PINES ROAD

LIMIT OF WORK
 STA 1200+50.00
 SR 7220 SEC 712
 WHISPERING PINES ROAD
 SHADE TOWNSHIP
 SOMERSET COUNTY

STOP WORK
 STA 205+10.00
 SR 7220 SEC 712
 WHISPERING PINES ROAD

LIMIT OF WORK
 STA 205+60.00
 SR 7220 SEC 712
 WHISPERING PINES ROAD
 SHADE TOWNSHIP
 SOMERSET COUNTY

LEGEND

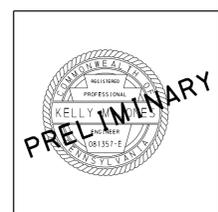
- EXISTING SIGN POST
- SIGN POST
- ① REMOVE SIGN
- ② REMOVE AND REPLACE SIGN
- ◇ GUIDE RAIL MOUNTED DELINEATORS, TYPE B, (W/W)
 GUIDE RAIL MOUNTED DELINEATORS, TYPE D, (W/W)
- ◆ BARRIER MOUNTED DELINEATOR, TOP AND SIDE-MOUNT TYPE R, (W/W)

NOTE THAT THIS IS A CONCEPT PLAN. SIGN TYPES, SIZES, AND NUMBERS WILL BE ADDED FOR FINAL ROADWAY PLAN SET.

SIGNING AND DELINEATION PLAN



SURVEY BOOK NO: G-709



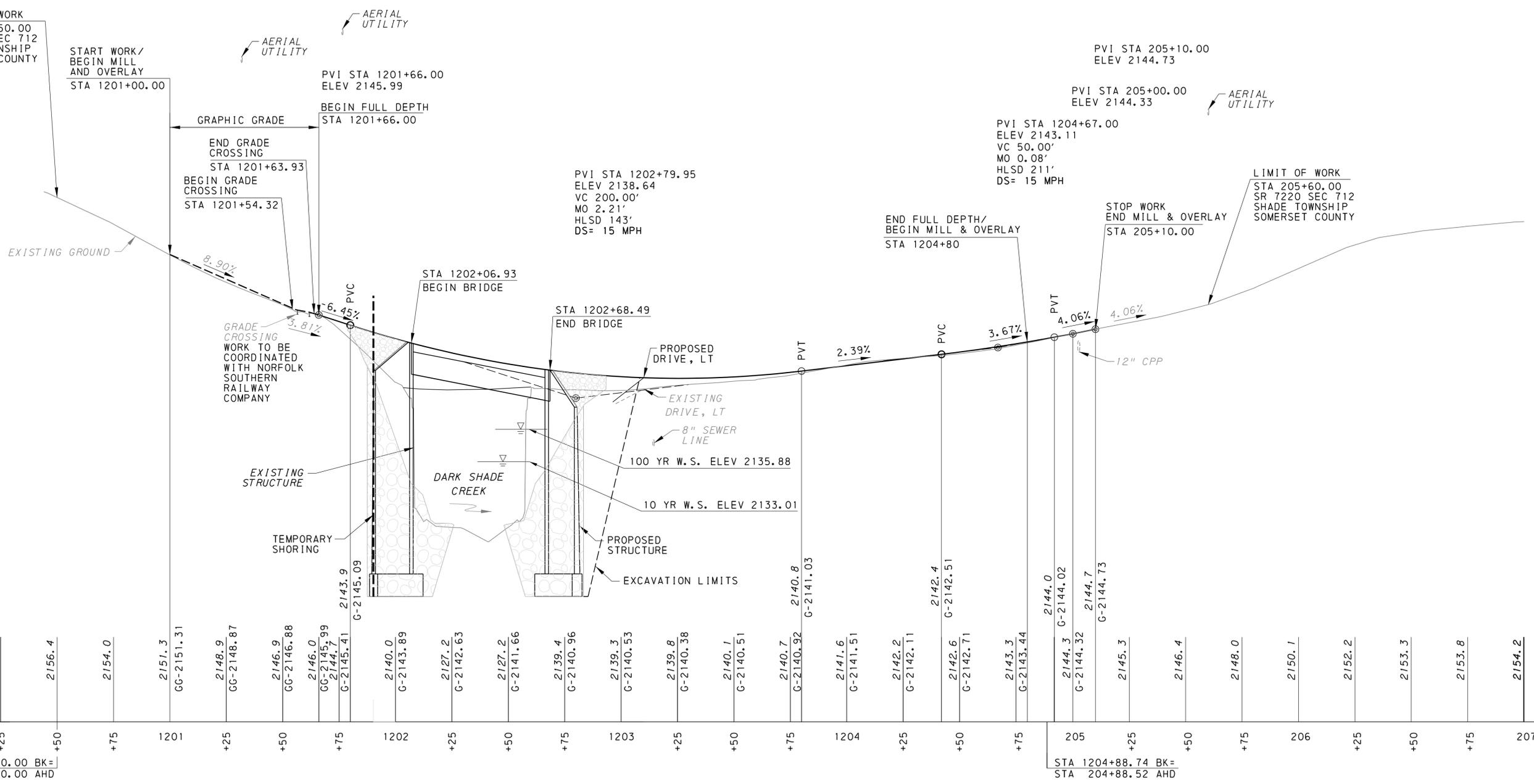
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DES: KMJ DWG: KMJ CHK: CRH

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	9 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

LIMIT OF WORK
 STA 1200+50.00
 SR 7220 SEC 712
 SHADE TOWNSHIP
 SOMERSET COUNTY

START WORK/
 BEGIN MILL
 AND OVERLAY
 STA 1201+00.00



LIMIT OF WORK
 STA 205+60.00
 SR 7220 SEC 712
 SHADE TOWNSHIP
 SOMERSET COUNTY

PVI STA 205+10.00
 ELEV 2144.73

PVI STA 205+00.00
 ELEV 2144.33

PVI STA 1204+67.00
 ELEV 2143.11
 VC 50.00'
 MO 0.08'
 HLSD 211'
 DS= 15 MPH

END FULL DEPTH/
 BEGIN MILL & OVERLAY
 STA 1204+80

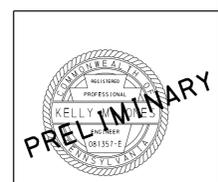
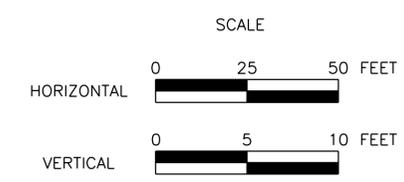
STOP WORK
 END MILL & OVERLAY
 STA 205+10.00

DATUM: 2110

STA 200+50.00 BK=
 STA 1200+50.00 AHD

STA 1204+88.74 BK=
 STA 204+88.52 AHD

SR 7220 PROFILE



PRELIMINARY

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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	1 OF 4
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

GENERAL NOTES

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

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

1. THE SPECIAL PROVISIONS OF THE CONTRACT.
2. PA CODE, TITLE 67, CHAPTER 212, OFFICIAL TRAFFIC CONTROL DEVICES (PENNDOT PUBLICATION 212).
3. PDT PUBLICATION 35 APPROVED CONSTRUCTION MATERIALS (BULLETIN 15).
4. PDT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES 2021 EDITION 3/2021.
5. PDT PUBLICATION 236/2013, HANDBOOK OF APPROVED SIGNS.
6. PDT PUBLICATION 408/2020, SPECIFICATIONS.
7. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES 2009 EDITION.
8. ANY SPECIAL SIGNS ARE TO BE FABRICATED IN ACCORDANCE WITH TC-8700.

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

NOTIFY LOCAL MUNICIPALITY OFFICIALS, EMERGENCY SERVICES, SCHOOL DISTRICTS, POST OFFICE, AND ANY OTHER PUBLIC SERVICES AT LEAST 3 WEEKS PRIOR TO IMPLEMENTATION OF DETOUR.

THE ENGINEER WILL INSPECT ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.

COVER OR REMOVE ALL SIGNS NOT IN USE AND ALL CONFLICTING SIGNS. WHEN USING TAPE TO SECURE SIGN COVER, TAPE MUST NOT CONTACT FACE OF SIGN. COVERING MUST CONFORM TO CURRENT PUBLICATIONS GUIDELINES.

ALL TRAFFIC CONTROL DEVICES SHALL BE IN NEW CONDITION AND MAINTAINED AS SUCH FOR THE DURATION OF THIS PROJECT. ALL WARNING SIGNS SHALL BE TYPE III FLUORESCENT ORANGE OR TYPE VII FLUORESCENT ORANGE SHEETING. THE LOCATION OF ALL THE SIGNS MAY BE ADJUSTED THROUGHOUT THE PROJECT TO MEET CHANGING CONDITIONS, THEY SHALL MEET CURRENT HEIGHT STANDARDS AND BE PROPERTY BALLASTED.

INSTALL ALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH PUB 213, PATA 215 AND THIS PLAN, ALL POST MOUNTED SIGNS SHALL BE BREAK-AWAY STEEL POSTS AS SPECIFIED IN SECTION 1103.08 OF THE PUB 408/2020. PLACE SIGNS AND DEVICES REQUIRED BY TITLE 67 CHAPTER 204 (GUIDELINES TO IMPLEMENT ACT 229 OF 2020), AS DIRECTED.

DETOUR SHALL BE IMPLEMENTED ON A MONDAY THROUGH THURSDAY WEEKDAY TIME FRAME. PHYSICAL WORK MUST BEGIN WITHIN 12 HOURS OF DETOUR IMPLEMENTATION.

DO NOT IMPLEMENT DETOUR WITHIN 48 HOURS OF A HOLIDAY TIME FRAME.

DO NOT IMPLEMENT DETOUR ON A FRIDAY, SATURDAY, OR SUNDAY WEEKEND TIME FRAME.

CONTRACTOR TO PLACE "BRIDGE TO BE CLOSED-XX/XX/XXXX" AT LEAST TWO WEEKS PRIOR TO CLOSING THE ROADWAY. CONTRACTOR TO DETERMINE DATE AND ENSURE IT IS CORRECT.

CONTRACTOR IS RESPONSIBLE FOR NOTIFYING LOCAL RESIDENCES OF THE DETOUR BEFORE IMPLEMENTATION, CONTRACTOR MUST ALLOW INGRESS AND EGRESS FROM PROPERTIES AFFECTED AT THE POINT OF CLOSURE, DURING THE DURATION OF THE PROJECT AND PROVIDE A CONTACT NUMBER FOR THIS PURPOSE. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PRIVATE DRIVEWAYS, THE SEWER PUMPING STATION AND BUSINESSES AT ALL TIMES.

UTILIZE SHORT TERM WORK ZONES INCLUDING FLAGGING OPERATIONS AS NECESSARY IN APPLICABLE PATA FIGURES IN PUB 213 AS REQUIRED TO COMPLETE APPROACH ROADWAY WORK.

SIGN EACH INDIVIDUAL FLAGGING OPERATION. FLAGGERS ARE TO BE EQUIPPED WITH TWO-WAY RADIOS.

ALL DETOUR SIGNING MUST BE UP 1 WEEK PRIOR TO ROAD CLOSURE BUT COVERED. ON THE DAY OF THE CLOSURE, ALL SIGNING MUST BE UNCOVERED AND EXPOSED TO THE PUBLIC BEFORE THE ACTUAL ROAD CLOSURE COMMENCES.

THIS TRAFFIC CONTROL PLAN DOES NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY AS SPECIFIED IN SECTION 901.3(A) OF PUB 408/2020.

ALL EQUIPMENT, VEHICLES AND MATERIALS SHALL BE PROPERLY PROTECTED AT THE JOB SITE.

SEQUENCE OF CONSTRUCTION

1. INSTALL DETOUR AND ATON SIGNAGE AND TEMPORARY PROTECTIVE FENCE, CLOSING THE CHANNEL TO BOATERS.
2. CONSTRUCT CAUSEWAY AND REMOVE EXISTING STRUCTURE.
3. CONSTRUCT ABUTMENT 1.
4. TEMPORARILY WIDEN DRIVEWAY AND INSTALL TEMPORARY TRAFFIC BARRIER.
5. CONSTRUCT ABUTMENT 2 AND SUPERSTRUCTURE.
6. CONSTRUCT FULL DEPTH PAVEMENT ON APPROACH ROADWAYS.
7. REMOVE CAUSEWAY, TEMPORARY PROTECTIVE FENCE AND ATON SIGNAGE AND RE-OPEN CHANNEL.
8. PERFORM MILL AND OVERLAY ON APPROACH ROADWAYS.
9. REMOVE SIGNS AND OPEN ROADWAY TO TRAFFIC.

TABULATION OF TRAFFIC CONTROL DEVICES INCLUDED IN ITEM 0901-0001 MAINTENANCE & PROTECTION OF TRAFFIC DURING CONSTRUCTION (FOR INFORMATION ONLY)

TRAFFIC CONTROL DEVICES	DEVICE SIZE OR UNIT	DESCRIPTION	TOTAL OR MAX. NUMBER OF DEVICES
M4-8A	24" X 18"	END DETOUR MARKER	2
M4-9L	30" X 24"	DETOUR, LEFT	3
M4-9R	30" X 24"	DETOUR, RIGHT	3
M4-9S	30" X 24"	DETOUR, STRAIGHT	2
M4-9SL	30" X 24"	LEFT ADVANCE DETOUR	2
M4-9SR	30" X 24"	RIGHT ADVANCE DETOUR	2
M4-10R	48" X 18"	DETOUR ARROW, RIGHT	1
M4-10S	48" X 18"	DETOUR ARROW, STRAIGHT	1
R11-2-1	48" X 30"	BRIDGE CLOSED	4
W20-3	36" X 36"	ROAD CLOSED	3
W30-1-1	20" X 6"	DISTANCE (500 FT) PANEL	1
W30-1-2	20" X 6"	DISTANCE (1000 FT) PANEL	2
SP-1	48" X 30"	THIS BRIDGE TO BE CLOSED FOR CONSTRUCTION XX/XX/XXXX	2
SP-2	--" X --"	WHISPERING PINES RD	14
SP-3	--" X --"	WHISPERING PINES RD CLOSED TO THRU TRAFFIC USE PA 160 FOLLOW DETOUR	1
SP-4	--" X --"	WHISPERING PINES RD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY	1
	●	TYPE B BREAKAWAY POST	SUFFICIENT
	LL	TYPE III BARRICADES	SUFFICIENT
		WARNING LIGHTS (TYPE B)	SUFFICIENT

INSTALL WORK ZONE TRAFFIC CONTROL SIGNS IN ACCORDANCE WITH PUBLICATION 213 USING PATA FIGURE 215 AND OTHERS AS APPLICABLE.

INDEX OF DRAWINGS TRAFFIC CONTROL PLANS

DESCRIPTION	SHEETS
GENERAL NOTES, INDEX OF DRAWINGS AND TABULATION OF TRAFFIC CONTROL DEVICES	1
DRIVEWAY ACCESS DETAIL	2
DETOUR PLAN	3
ATON PLAN	4

TRAFFIC CONTROL PAY ITEM TABULATION

ITEM NO.	UNIT	QUANTITY	DESCRIPTION
0901-0231	DAY	10	ADDITIONAL WARNING LIGHTS, TYPE B
0901-0240	SF	100	ADDITIONAL TRAFFIC CONTROL SIGNS

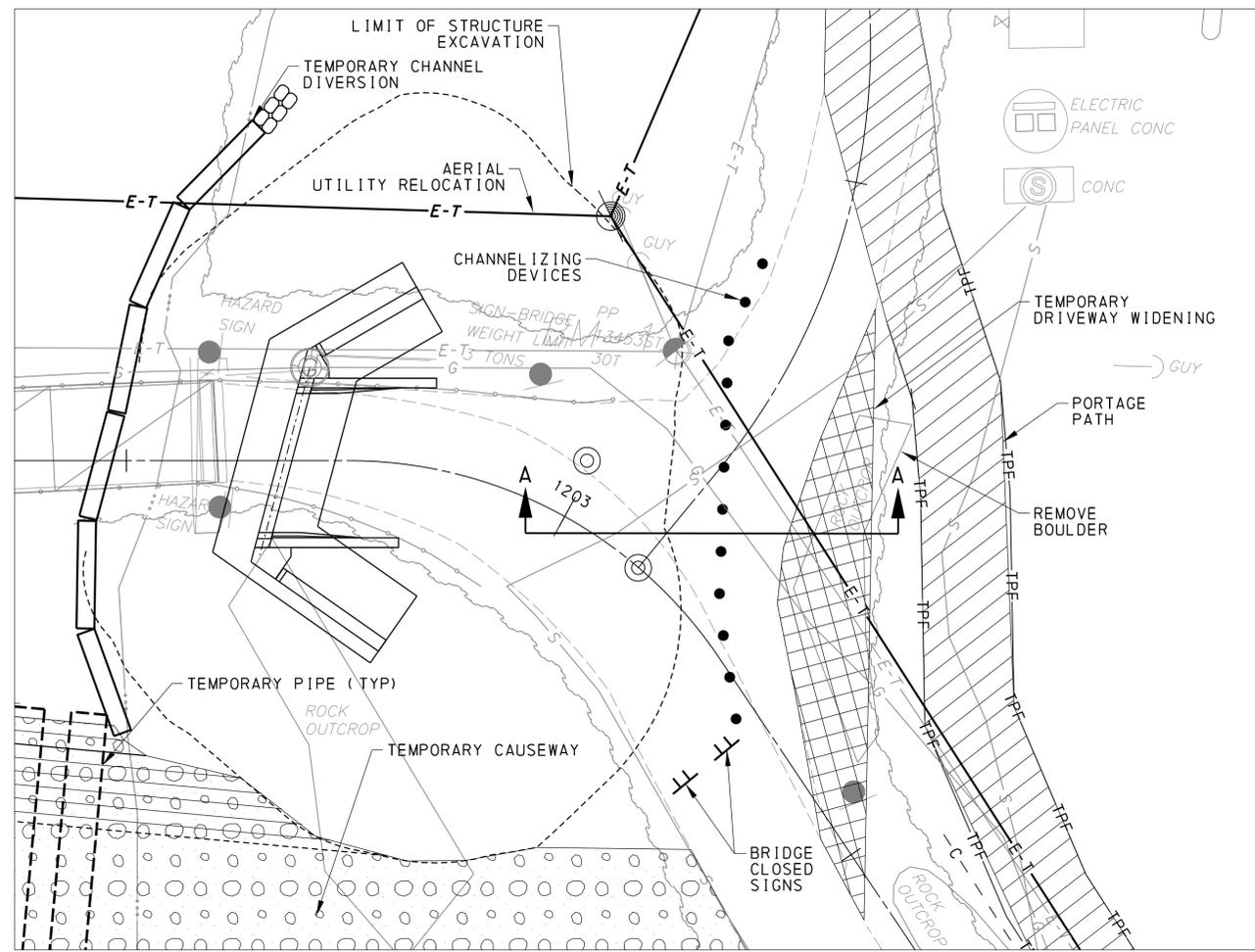
TRAFFIC CONTROL PLAN

THE EADS GROUP
450 ABERDEEN DRIVE
SOMERSET, PA 15501

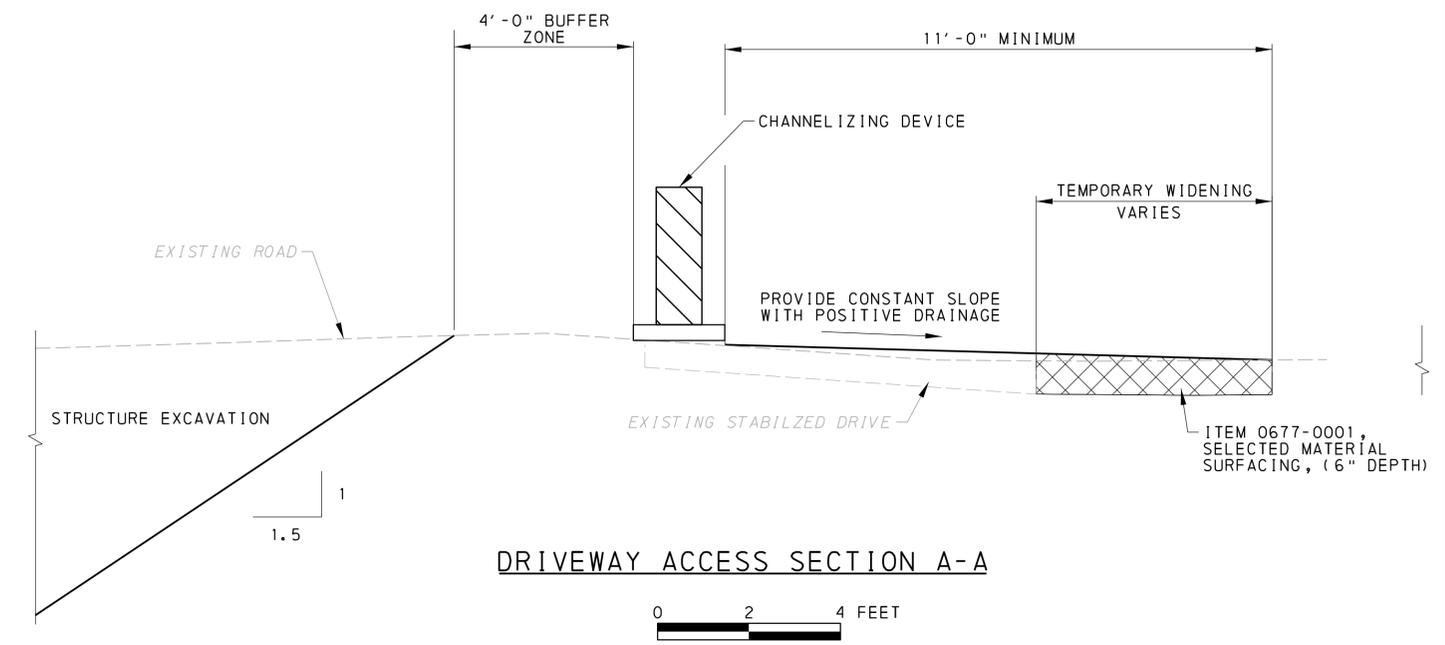
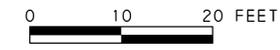


PROJECT MANAGER
DATE: 5/20/25

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	2 OF 4
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



DRIVEWAY ACCESS PLAN (ABUTMENT 2 CONSTRUCTION)



DRIVEWAY ACCESS SECTION A-A

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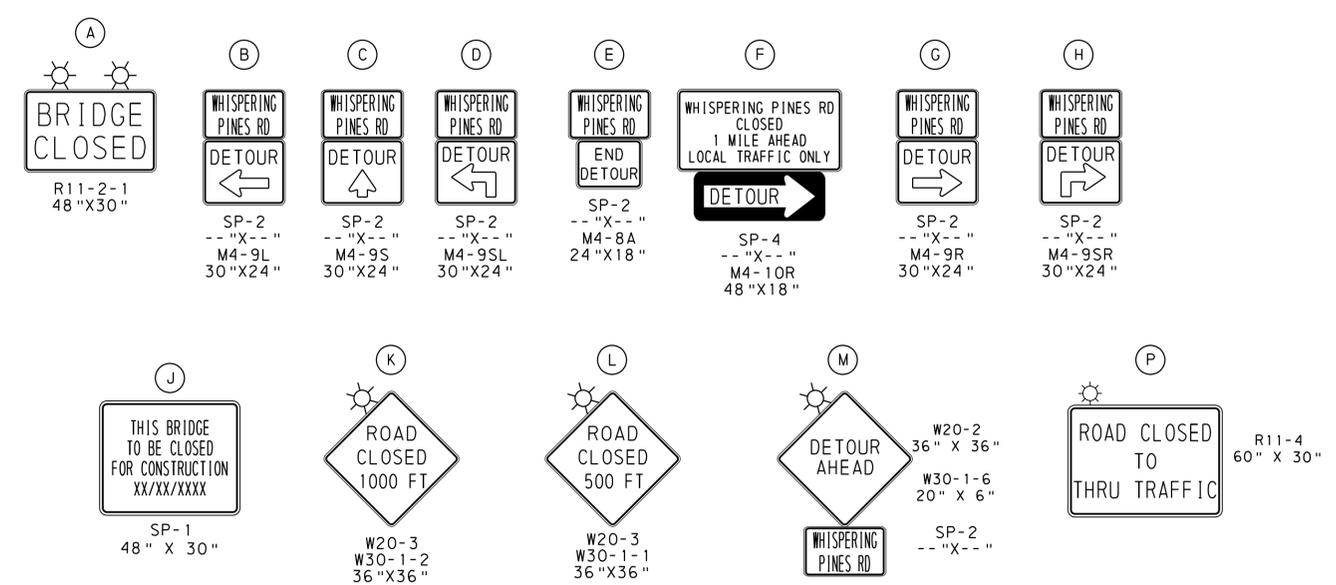
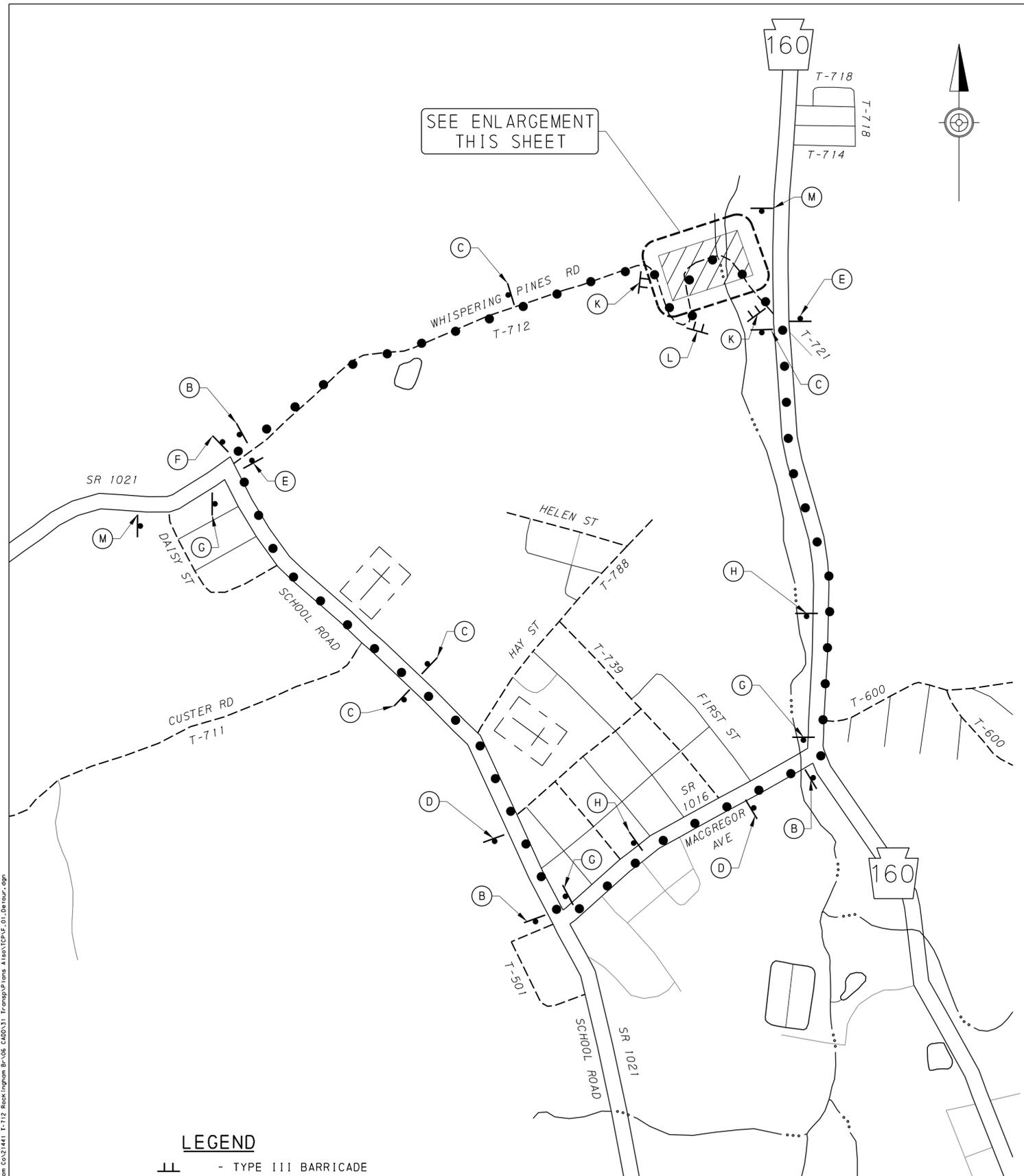
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TRAFFIC CONTROL PLAN



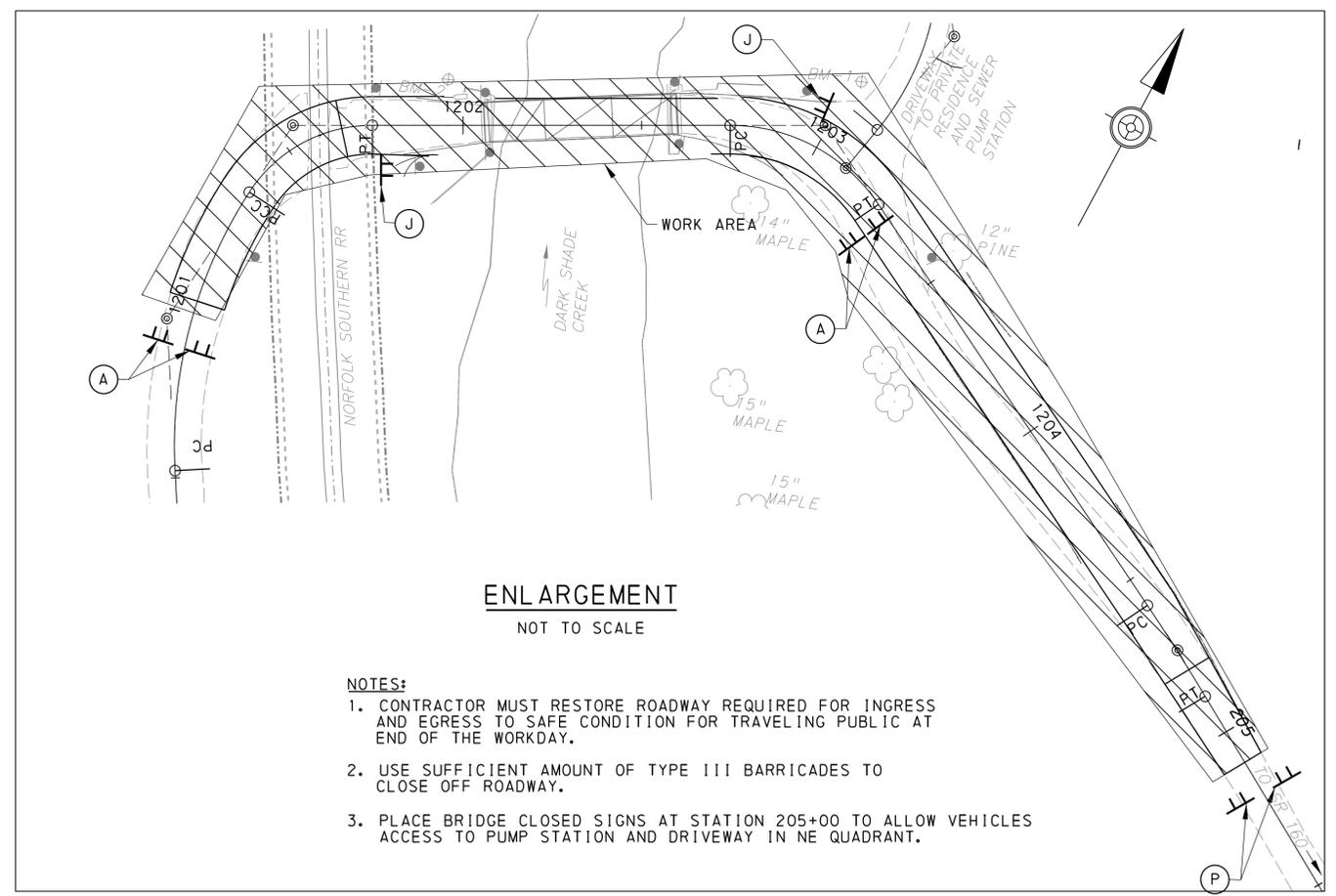
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	3 OF 4
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



- LEGEND**
- || - TYPE III BARRICADE
 - - TYPE B POST
 - ☀ - TYPE B LIGHT
 - - DETOUR ROUTE - 3.3 MILES
 - ▨ - WORK AREA

DETOUR PLAN
NOT TO SCALE



ENLARGEMENT
NOT TO SCALE

- NOTES:**
- CONTRACTOR MUST RESTORE ROADWAY REQUIRED FOR INGRESS AND EGRESS TO SAFE CONDITION FOR TRAVELING PUBLIC AT END OF THE WORKDAY.
 - USE SUFFICIENT AMOUNT OF TYPE III BARRICADES TO CLOSE OFF ROADWAY.
 - PLACE BRIDGE CLOSED SIGNS AT STATION 205+00 TO ALLOW VEHICLES ACCESS TO PUMP STATION AND DRIVEWAY IN NE QUADRANT.

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TRAFFIC CONTROL PLAN



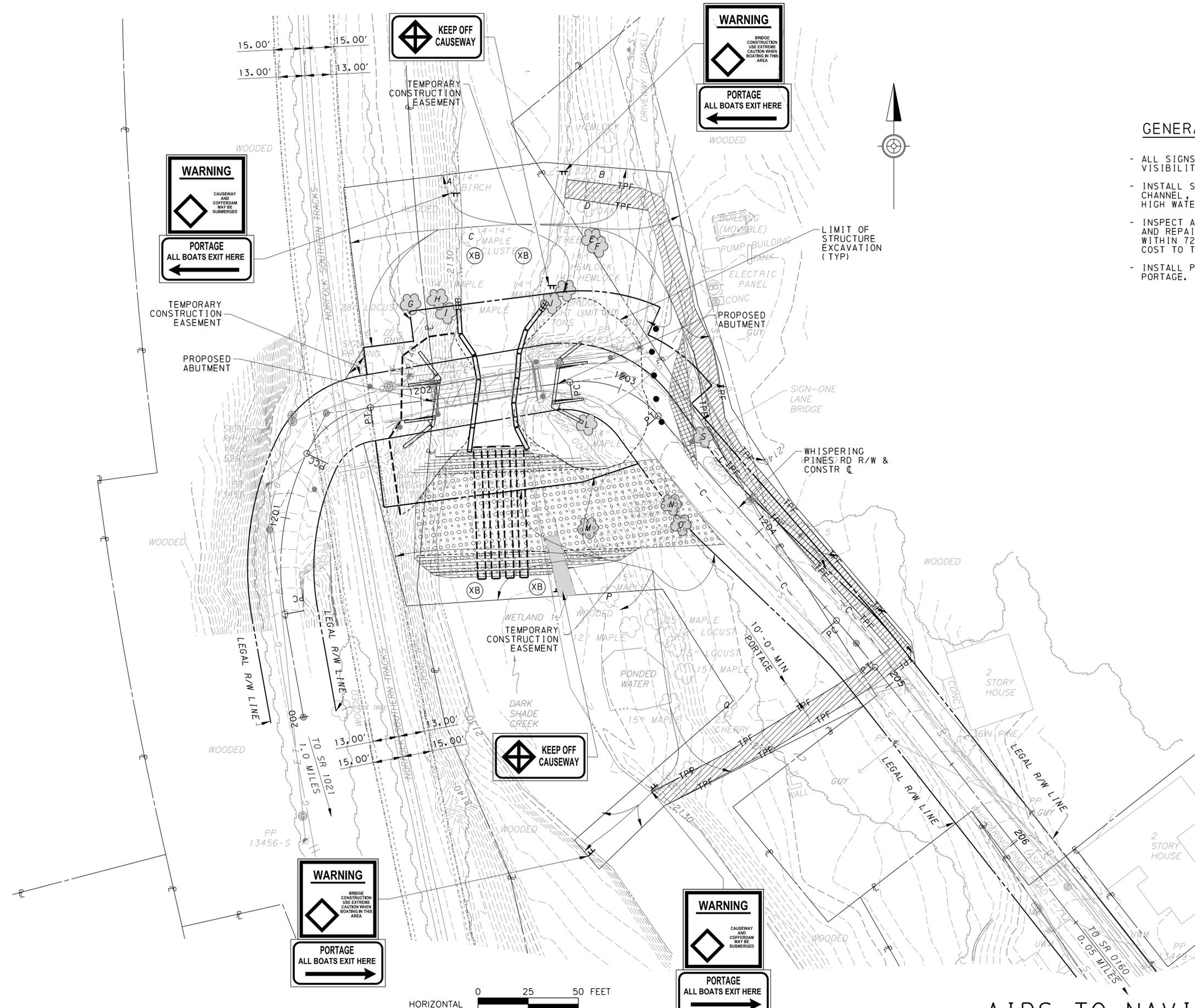
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	4 OF 4
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

GENERAL NOTES

- ALL SIGNS ARE TO BE ORIENTED TO PROVIDE MAXIMUM VISIBILITY TO BOATING TRAFFIC.
- INSTALL SIGNS ON THE BANKS OUTSIDE THE NORMAL FLOW CHANNEL, BUT BELOW THE TOP OF STREAM BANK AND OBSERVED HIGH WATER MARK.
- INSPECT ALL SIGNS AND SUPPORTS FOLLOWING STORM EVENTS AND REPAIR, REINSTALL, OR REPLACE SIGNS AND/OR SUPPORTS WITHIN 72 HOURS AFTER THE STORM EVENT, AT NO ADDITIONAL COST TO THE DEPARTMENT.
- INSTALL PROTECTIVE FENCING ALONG EACH SIDE OF THE PORTAGE.

LEGEND

- 710 --- EXISTING CONTOUR
- 710 — PROPOSED CONTOUR
- TPF - TEMPORARY PROTECTIVE FENCE
- [Hatched Box] PORTAGE
- (XB) KEEP OUT BUOY
- [Three Vertical Bars] TYPE III BARRICADE
- [Cross-hatched Box] TEMPORARY DRIVEWAY WIDENING
- [Thick Line] TEMPORARY BARRIER FOR DRIVEWAY
- [Dotted Box] TEMPORARY CAUSEWAY
- [Dashed Box] TEMPORARY PIPE
- [Line with Sandbags] TEMPORARY CHANNEL DIVERSION AND SANDBAGS
- [Dashed Line] TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- - - NS REQUIRED TEMPORARY OFFSET FROM TRACK C
- - - NS REQUIRED PERMANENT OFFSET FROM TRACK C



AIDS TO NAVIGATION PLAN



PRELIMINARY

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GENERAL NOTES:

- IN ACCORDANCE WITH THE CURRENT POLICIES AND PRACTICES IN THE COMMONWEALTH OF PENNSYLVANIA TO CONTROL EROSION, IT IS REQUIRED THAT THE CONTRACTOR FOR THIS PROJECT CONFORM WITH THE FOLLOWING GUIDELINES AS THEY ARE APPLICABLE AND IN ACCORDANCE WITH THE INSTRUCTIONS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (PADEP) AND THE PENNDOT REPRESENTATIVE.
- KEEP A COPY OF THE APPROVED PLAN DRAWINGS STAMPED, SIGNED AND DATED BY THE REVIEWING AGENCY AT THE PROJECT SITE AT ALL TIMES. THE REVIEWING AGENCY SHALL BE NOTIFIED OF ANY CHANGES TO THE APPROVED PLAN PRIOR TO IMPLEMENTATION OF THOSE CHANGES. THE REVIEWING AGENCY MAY REQUIRE A WRITTEN SUBMITTAL OF THOSE CHANGES FOR REVIEW AND APPROVAL AT ITS DISCRETION.
- FAILURE TO CORRECTLY INSTALL ESPC BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF ESPC BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL, AND/OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PENNSYLVANIA CLEAN STREAMS LAW. THE CLEAN STREAMS LAW PROVIDES FOR UP TO \$10,000 PER DAY IN CIVIL PENALTIES, UP TO \$10,000 IN SUMMARY CRIMINAL PENALTIES, AND UP TO \$25,000 IN MISDEMEANOR CRIMINAL PENALTIES FOR EACH VIOLATION.
- CONDUCT ALL EARTH DISTURBANCES, INCLUDING CLEARING AND GRUBBING AS WELL AS CUTS AND FILLS, IN ACCORDANCE WITH THE APPROVED ESPC PLAN.
- LIMIT CLEARING, GRUBBING, AND TOPSOIL STRIPPING TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. DO NOT COMMENCE WORK IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE ESPC BMPS SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS DOCUMENT.
- PUMP WATER FROM WORK AREA(S) TO UNDISTURBED VEGETATED AREAS AND ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN.
- SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
- RETURN SEDIMENT THAT IS TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK TO THE CONSTRUCTION SITE BY THE END OF EACH WORKDAY AND DISPOSE OF PROPERLY. DO NOT WASH, SHOVEL, OR SWEEP THE SEDIMENT INTO ANY ROADSIDE DITCH, STORM SEWER, OR SURFACE WATER.
- SPRINKLE OR APPLY DUST SUPPRESSOR OR KEEP DUST WITHIN TOLERABLE LIMITS AT THE SITE.
- HANDLE CONCRETE WASH WATER IN THE MANNER DESCRIBED ON THE PLAN. IN NO CASE SHALL IT BE ALLOWED TO ENTER SURFACE WATER OR GROUNDWATER SYSTEMS.
- ALLOW THE CONCRETE TO HARDEN ENOUGH TO SUPPORT FOOT TRAFFIC. FLUSH THE CONCRETE WITH WATER AND PUMP TO AN UPLAND INFILTRATION AREA INSURING IT DOES NOT RE-ENTER THE STREAM. THE DIVERSION DIKE SHALL NOT BE REMOVED UNTIL A PROPERLY CALIBRATED PH METER SHOWS THE PH OF THE WASH WATER IS LESS 9.0
- KEEP ALL CHANNELS FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION, AND CONSTRUCTION MATERIAL/WASTES.
- IMMEDIATELY BACKFILL UNDERGROUND UTILITIES CUTTING THROUGH AN ACTIVE CHANNEL AND RESTORE THE CHANNEL TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. CONVEY BASE FLOW WITHIN THE CHANNEL PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- ENSURE THAT SUFFICIENT OVER-EXCAVATION IS PROVIDED FOR RIPRAP CHANNELS SUCH THAT THE SPECIFIED CHANNEL DIMENSIONS ARE ACHIEVED AFTER PLACEMENT OF THE STONE.
- PLACE TOPSOIL AS INDICATED ON THE PLAN AND IN ACCORDANCE WITH PUBLICATION 408 - SPECIFICATIONS.
- PERMANENTLY STABILIZE ALL GRADED AREAS IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.
- STABILIZE ALL DISTURBED AREAS IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB-AREA OF THE PROJECT. DURING NON-GERMINATING MONTHS, APPLY MULCH OR PROTECTIVE BLANKETING AS DESCRIBED IN THE PLAN. STABILIZE AREAS NOT AT FINISHED GRADE THAT WILL BE RE-ACTIVATED WITHIN ONE YEAR IN ACCORDANCE WITH TEMPORARY STABILIZATION SPECIFICATIONS. STABILIZE THOSE AREAS THAT WILL NOT BE ACTIVATED WITHIN ONE YEAR IN ACCORDANCE WITH PERMANENT STABILIZATION SPECIFICATIONS.
- UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, CONTACT THE CD/PA DEP FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF ESPC BMPS. PERMANENTLY STABILIZED MEANS COVERED WITH EITHER (1) A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION; OR (2) AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
- ENSURE THAT ALL E&S BMPS REMAIN FUNCTIONAL UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE SOMERSET COUNTY CONSERVATION DISTRICT OR PADEP.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL IDENTIFY ANY OFF SITE BORROW, WASTE, OR STAGING AREAS, INDICATING AREAS TO BE DISTURBED. THE CONTRACTOR WILL BE RESPONSIBLE FOR IDENTIFYING AND DELINEATING ANY WETLANDS, WATERCOURSES, FLOOD PLAINS AND FLOODWAYS WITHIN 50 FEET OF THE AREA OF DISTURBANCE. NO DISTURBANCE TO WETLANDS, WATERCOURSES OR PERMANENT FILL IN FLOOD PLAINS OR FLOODWAYS SHALL OCCUR AND ANY WETLANDS IN PROXIMITY TO THE AREA TO BE DISTURBED SHALL BE CLEARLY MARKED AND PROTECTED FROM DISTURBANCE. THE CONTRACTOR SHALL DEVELOP AN EROSION AND SEDIMENTATION CONTROL PLAN FOR EACH OFF SITE BORROW, WASTE OR STAGING AREA IN ACCORDANCE WITH CHAPTER 102 REGULATIONS AND PA DEP'S EROSION AND SEDIMENTATION CONTROL MANUAL. PRIOR TO CONSTRUCTION OBTAIN APPROVALS FROM THE PENNDOT DISTRICT ENVIRONMENTAL UNIT (ATTILIO SQUILLARIO 814-696-7116) AND THE SOMERSET COUNTY CONSERVATION DISTRICT. PROVIDE A COPY OF THE APPROVAL FROM THE SOMERSET COUNTY CONSERVATION DISTRICT TO THE PENNDOT CONSTRUCTION PROJECT MANAGER PRIOR TO STARTING WORK. ANY WASTE AREAS THAT ARE 1 ACRE OR LARGER WILL REQUIRE AN NPDES PERMIT WHICH IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL DETERMINE TOPSOIL STOCKPILE LOCATIONS. PLACE STOCKPILES NO GREATER THAN 35 FT IN HEIGHT WITH SLOPES NO STEEPER THAN 2H:1V.
- CLEAR, GRUB, AND STRIP TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL FROM FILL AREAS.
- COMPACT ALL FILLS TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE, OR OTHER RELATED PROBLEMS. COMPACT FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES, CONDUITS, ETC. IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES. PLACE ALL EARTHEN FILLS IN MAXIMUM 9-INCH THICK COMPACTED LAYERS.
- DO NOT PLACE FILLS ON SATURATED OR FROZEN SURFACES. FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD, OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH CONSTRUCTION OF SATISFACTORY FILLS. DO NOT INCORPORATE SOFT, MUCKY, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILLS.
- ENSURE THAT CUT AND FILL SLOPES ARE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING, OR OTHER MOVEMENTS.

GENERAL NOTES (CONTINUED):

- THE DEPARTMENT WILL PROVIDE TO THE CONTRACTOR A COMPLETED DUE DILIGENCE FORM FOR EXCESS MATERIAL THAT NEEDS TO BE EXPORTED TO AN OFF-SITE LOCATION. THE CONTRACTOR WILL PROVIDE TO THE DEPARTMENT A DUE DILIGENCE FORM FOR ALL MATERIAL THAT COMES ONTO THE SITE.
- ENSURE THAT ANY MATERIAL BROUGHT ON SITE IS CLEAN FILL, DEFINED AS UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL, THE TERM INCLUDES SOILS, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT (NOT INCLUDING MILLED OR PROCESSED FOR REUSE) BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED.
- ANY PLACEMENT OF CLEAN FILL THAT HAS BEEN AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE MUST USE 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.
- 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 SUBJECT TO A SPILL OR RELEASE OF A 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 PADEP'S MANAGEMENT OF FILL POLICY.
- LOCATE ALL FUEL STORAGE TANKS A MINIMUM OF 150 FEET AWAY FROM WATERWAYS AND DRAINAGE AREAS.
- DISPOSE OF ALL SEDIMENT REMOVED FROM BMPS IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
- IF UNFORESEEN CONDITIONS ARE ENCOUNTERED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE DEPARTMENT IN ACCORDANCE WITH PUBLICATION 408/2020, SPECIFICATIONS, SECTION 110.02.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	1 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

PLAN PREPARER

KELLY M JONES, P.E.
450 ABERDEEN DRIVE
SOMERSET, PA 15501
PHONE: 814-445-6551

PROJECT CONTACTS

SOMERSET COUNTY CONSERVATION DISTRICT
6024 GLADES PIKE, SUITE 103
SOMERSET, PA 15501
PHONE: 814-445-4652

DEP SOUTHWEST REGIONAL OFFICE
400 WATERFRONT DRIVE
PITTSBURGH, PA 15222
PHONE: 412-442-4000

SOMERSET COUNTY COMMISSIONERS
300 NORTH CENTER AVENUE SUITE 500
SOMERSET, PA 15501
PHONE: 814-445-1400

PENNSYLVANIA FISH & BOAT COMMISSION
SOUTHWEST REGION:
236 LAKE ROAD
SOMERSET, PA 15501
PHONE: 814-445-8974

CHAPTER 93 CLASSIFICATIONS & IN-STREAM WORK RESTRICTIONS

DARK SHADE CREEK (CWF)
STREAM RESTRICTIONS: NONE

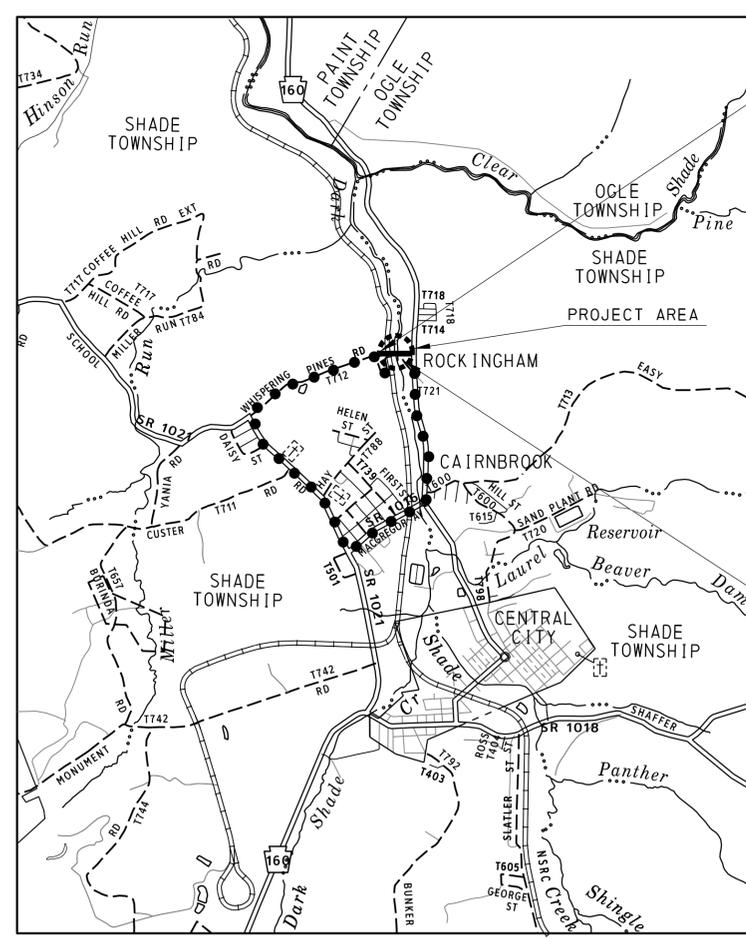


PA ONE CALL SYSTEM NO. 1-800-242-1776
T-712 (WHISPERING PINES ROAD)
SERIAL NO: SHADE TOWNSHIP - 20212322013

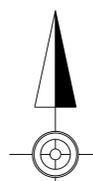
ESTIMATED PROJECT AREAS

TOTAL DISTURBED AREA	= 1.147 ACRES
ROADWAY MAINTENANCE ACTIVITIES	= 0.153 ACRES
CHAPTER 105/SECTION 404 AREAS	= 0.468 ACRES
CHAPTER 102 AREAS	= 0.526 ACRES
EFFECTIVE NPDES AREA	= 0.526 ACRES

SHEET INDEX BLOCK	
DESCRIPTION	SHEETS
GENERAL NOTES	1 TO 2
BMP IMR SCHEDULE	2
CONSTRUCTION SEQUENCE	3
DETAIL SHEETS	4 TO 7
EARTH DISTURBANCE PLAN SHEET	8
PLAN SHEET	9



LIMIT OF WORK
STA 1200+50.00
SR 7220 SEC 712
SHADE TOWNSHIP
SOMERSET COUNTY

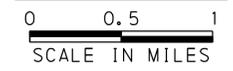


LIMIT OF WORK
STA 205+60.00
SR 7220 SEC 712
SHADE TOWNSHIP
SOMERSET COUNTY

LEGEND

- PROJECT
- STATE ROUTE
- TOWNSHIP ROAD
- OTHER ROAD
- STREAM
- CITY/TOWNSHIP LINE
- RAILROAD
- DETOUR (LENGTH = 3.3 MILES)

LOCATION MAP



EROSION AND SEDIMENT POLLUTION CONTROL PLAN

THE EADS GROUP
450 ABERDEEN DRIVE
SOMERSET, PA 15501



Kelly M. Jones
PROJECT MANAGER

DATE: 2/7/2025

2/7/2025 4:01:39 PM R:\8000_Sm_G021441_T-712_Rock/Imperv Br/Vol_CADD\31_T-712_Rock/Imperv Br/Vol_CADD\31_1183\KELLY.M.JONES.dwg

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	2 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SOIL LIMITATIONS AND RESOLUTIONS

LIMITATION	RESOLUTION	AFFECTED SOILS
CUTBANKS CAVE	VISUALLY INSPECT CUT SLOPES FOR STABILITY. FLATTEN OR PROVIDE ALTERNATE PROTECTIVE MEASURES FOR ANY SLOPES THAT APPEAR UNSTABLE OR EXHIBIT SIGNS OF FAILURE.	BrB, HzF, WhB
CORROSIVE TO CONCRETE/STEEL	PROTECT STEEL AND CONCRETE AGAINST CORROSION OR BACKFILL WITH ACCEPTABLE SOILS OR AGGREGATE	STEEL - BrB, WhB CONCRETE - BrB, ChB, HzF, WhB
DROUGHTY	MINIMIZE DURATION OF UNPROTECTED SOIL TO THE EXTENT POSSIBLE. INSTALL TEMPORARY EROSION PROTECTION SUCH AS EROSION CONTROL MULCH BLANKET FOR ANY SOILS THAT EXHIBIT MODERATE EROSION.	BrB, HzF
EASILY ERODIBLE	MINIMIZE DURATION OF UNPROTECTED SOIL TO THE EXTENT POSSIBLE. INSTALL TEMPORARY EROSION PROTECTION SUCH AS EROSION CONTROL MULCH BLANKET FOR ANY SOILS THAT EXHIBIT MODERATE EROSION.	BrB, ChB, HzF, WhB
FLOODING	PUMP/DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH PUMPED WATER FILTER BAG BEFORE RELEASING TO STREAM	ChB
DEPTH TO SATURATED ZONE/ SEASONAL HIGH WATER TABLE	PUMP/DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH PUMPED WATER FILTER BAG BEFORE RELEASING TO STREAM	BrB, WhB
HYDRIC/HYDRIC INCLUSIONS	PUMP/DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH PUMPED WATER FILTER BAG BEFORE RELEASING TO STREAM	BrB, HzF, WhB
LOW STRENGTH/LANDSLIDE PRONE	ROADWAY AND PAVEMENT CROSS SECTIONS HAVE BEEN DESIGNED TO PROVIDE SUITABLE AND APPROPRIATE STRENGTH TO SUPPORT EXPECTED ROADWAY LOADING. LANDSLIDE POTENTIAL IS MINIMAL DUE TO LIMITED EXCAVATIONS REQUIRED FOR THIS PROJECT.	BrB, ChB, HzF, WhB
SLOW PERCOLATION	PUMP/DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH PUMPED WATER FILTER BAG BEFORE RELEASING TO STREAM	BrB, HzF, WhB
PIPING	LIMITED POTENTIAL DUE TO PROPOSED WORK FOR THIS PROJECT. IF PIPING ENCOUNTERED, EXCAVATE AND BACKFILL VOIDED OR PIPED AREAS WITH SUITABLE MATERIAL.	BrB, ChB, HzF, WhB
POOR SOURCE OF TOPSOIL	INSPECT SOIL FOR USE AS TOPSOIL. IF UNSUITABLE, PROVIDE ACCEPTABLE TOPSOIL FROM ALTERNATE SOURCE	BrB, HzF, WhB
FROST ACTION	PROVIDE PROPER DRAINAGE FOR ROADWAY SUBGRADE AND STRUCTURE	BrB, ChB, HzF, WhB
SHRINK-SWELL	REMOVE AND REPLACE EXPANSIVE SOILS WITH SUITABLE FILL	BrB, WhB
WETNESS	PUMP/DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH PUMPED WATER FILTER BAG BEFORE RELEASING TO STREAM. PROPERLY DRY ANY WET SOILS BEFORE USING AS FILL.	BrB, WhB

WASTE MATERIAL RECYCLING:

- REMOVE ALL BUILDING MATERIALS AND WASTES FROM THE SITE AND RECYCLE OR DISPOSE OF IN ACCORDANCE WITH PADEP'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE 260.1 ET SEQ., 271.1, AND 287.1 ET. SEQ. DO NOT BURN, BURY, DUMP, OR DISCHARGE ANY BUILDING MATERIALS, WASTES, OR UNUSED BUILDING MATERIALS AT THE SITE.
- ALL EXCAVATED MATERIALS AND SEDIMENT ACCUMULATION FROM THE EROSION CONTROL DEVICES SHOULD BE PROPERLY DISPOSED OF IN ACCORDANCE WITH SECTION 105.14 BORROW AREA AND WASTE AREAS AS SPECIFIED IN SPECIFICATIONS, PUBLICATION 408.
- ALL SEDIMENT WILL BE REMOVED FROM A TEMPORARY SEDIMENTATION OR EROSION CONTROL DEVICE PRIOR TO THE REMOVAL OF THAT DEVICE. THE SEDIMENT WILL NOT BE DUMPED IN AREAS WHERE EROSION WILL CAUSE AN UNSIGHTLY SCAR OR IN WHICH THE SEDIMENT CAN REACH A STREAM.
- IN THE EVENT THAT MATERIAL WILL BE LEAVING THE SITE, THE NECESSARY ENVIRONMENTAL DUE DILIGENCE FORMS WILL BE COMPLETED PRIOR TO CONSTRUCTION AS PART OF PADEP'S MANAGEMENT OF FILL POLICY. IF OFF-SITE FILL IS REQUIRED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE ENVIRONMENTAL DUE DILIGENCE OF ANY BORROW MATERIAL THAT COMES ON-SITE.
- OBTAIN ESPC PLAN APPROVAL FOR ALL OFF-SITE WASTE AND BORROW AREAS FROM THE CONSERVATION DISTRICT OR PADEP, AND FULLY IMPLEMENT THE PLAN PRIOR TO ACTIVATING THE SITE.
- CONSTRUCTION WASTE ANTICIPATED FOR THIS PROJECT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING: CONCRETE, ROCK, SOIL, STEEL, PAVEMENT AND WOOD.

MAINTENANCE OF CONTROL FACILITIES:

- INSPECT ALL ESPC BMPS ACCORDING TO THE SCHEDULES OUTLINED IN THIS PLAN. PERFORM ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK IMMEDIATELY, INCLUDING CLEAN-OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, RE-MULCHING, AND RE-NETTING.
- MAINTAIN A LOG ON SITE SHOWING DATES THAT ESPC BMPS WERE INSPECTED AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED.
- IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE COUNTY CONSERVATION DISTRICT OR PADEP. ALSO, IMMEDIATELY NOTIFY THE DEPARTMENT IN ACCORDANCE WITH PUBLICATION 408, SPECIFICATIONS, SECTION 110.02.
- AFTER EACH WEEKLY INSPECTION, REMOVE BUILT-UP SEDIMENT AND TO ASSURE PROPER FUNCTION OF THE EROSION CONTROL MEASURE.
- MAINTENANCE AND CLEANING OF EROSION AND SEDIMENTATION CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION 408, SECTION 861 & 867. SEDIMENT ACCUMULATION WILL BE PERIODICALLY REMOVED FROM SEDIMENTATION AND EROSION CONTROL DEVICES TO ASSURE PROPER FUNCTIONING. COMPOST FILTER SOCK AND PUMPED WATER FILTER BAGS WILL BE REPLACED AS NECESSARY. DISPOSAL OF SEDIMENT FROM THE EROSION CONTROL DEVICES SHOULD BE PLACED IN AN APPROVED WASTE AREA WITH IMMEDIATE STABILIZATION THROUGH SEEDING AND MULCHING, AND SURROUNDED BY COMPOST FILTER SOCK IMMEDIATELY DOWN-SLOPE OF THE PILE.
- MAINTAIN EROSION AND SEDIMENT CONTROL FACILITIES UNTIL ADEQUATE STABILIZATION HAS OCCURRED, WHICH IS DEFINED AS UNIFORM 70% VEGETATIVE COVER ACHIEVED OR THE AREA HAS BEEN COVERED WITH AGGREGATE BASE COURSE, BEFORE THE INTERIM MEASURES OR FACILITIES ARE REMOVED.
- REFER TO THIS SHEET FOR BMP INSPECTION, MAINTENANCE, AND REPAIR (IMR) SCHEDULE.

BMP INSPECTION, MAINTENANCE, AND REPAIR (IMR) SCHEDULE

BEST MANAGEMENT PRACTICE (BMP)	INSPECTION	MAINTENANCE	REPAIR
TEMPORARY PROTECTIVE FENCE	WEEKLY AND AFTER EACH RUNOFF EVENT		REPAIR IF DAMAGED.
SEEDING AND MULCHING	WEEKLY AND AFTER EACH RUNOFF EVENT		IF WASHOUTS OCCUR, EVALUATE IF CONCENTRATED FLOW IS LIKELY TO HAPPEN AGAIN. IF SO, RE-SEED AND STABILIZE. IF CONCENTRATED FLOW IS NOT LIKELY AGAIN, RE-SEED AND APPLY MULCH.
COMPOST FILTER SOCK	WEEKLY AND AFTER EACH RUNOFF EVENT	REMOVE SEDIMENT WHEN IT REACHES 1/2 OF THE EXPOSED HEIGHT.	ANY SECTION OF THE COMPOST FILTER SOCK THAT HAS BEEN UNDERMINED OR WASHED OUT SHOULD BE REPLACED IMMEDIATELY.
PUMPED WATER FILTER BAGS	DAILY AND PRIOR TO THE START OF PUMPING	UPON DETECTION OF ANY PROBLEM WITH A PUMPED WATER FILTER BAG OR HOSE BETWEEN THE PUMP AND BAG, CEASE PUMPING IMMEDIATELY AND DO NOT RESUME UNTIL THE PROBLEM IS CORRECTED OR ANOTHER BAG OR HOSE IS PLACED INTO OPERATION.	REPLACE BAG AT 1/2 FULL OR WHEN FLOW RATE IS REDUCED.
CONCRETE WASHOUT	DAILY AND PRIOR TO EACH USE	REMOVE DEBRIS/CONCRETE AT 50% CAPACITY.	REPLACED DAMAGED CONCRETE WASHOUT WITH NEW CONCRETE WASHOUT.
TEMPORARY CHANNEL DIVERSION	DAILY AND AFTER EACH RUNOFF EVENT	VERIFY INTEGRITY.	REPAIR, RESET, OR REPLACE DAMAGED OR IMPROPERLY FUNCTIONING STREAM CHANNEL DEVICES.
TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D	WEEKLY AND AFTER EACH RUNOFF EVENT		IF WASHOUTS OCCUR, EVALUATE IF CONCENTRATED FLOW IS LIKELY TO HAPPEN AGAIN. IF SO, RE-SEED AND STABILIZE WITH A ROLLED EROSION CONTROL PRODUCT UTILIZING HIGH SHEAR STRESS INSTALLATION AS RECOMMENDED BY MANUFACTURER.
ROCK CONSTRUCTION ENTRANCE	DAILY	RCE 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 RCE BY 50 FOOT INCREMENTS UNTIL CONDITION IS ALLEVIATED OR INSTALL WASH RACK. WASHING THE ROADWAY OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.

TEMPORARY AND PERMANENT CONTROL MEASURES AND FACILITIES:

1. TEMPORARY CONTROL MEASURES AND FACILITIES WHICH WILL BE UTILIZED DURING THIS PROJECT ARE COMPOST FILTER SOCK, A CONCRETE WASHOUT, TEMPORARY SEEDING AND MULCHING, TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D, PUMPED WATER FILTER BAGS TO CONTROL PUMP DISCHARGES CREATED BY DEWATERING, TEMPORARY CHANNEL DIVERSION DEVICES, TEMPORARY PROTECTIVE FENCE, AND ROCK CONSTRUCTION ENTRANCES.

2. PERMANENT CONTROL MEASURES AND FACILITIES THAT WILL BE INSTALLED FOR THIS PROJECT ARE PERMANENT WATERCOURSE PROTECTION INCLUDING SELECTED BORROW EXCAVATION ROCK, CLASS R-8 CHOKED WITH R-4 IN THE STREAM ALONG THE SUBSTRUCTURE UNITS AND ROCK CLASS R-4 AT THE END OF THE PROPOSED BARRIERS. ALSO THE PERMANENT SEEDING AND MULCHING OF EXCAVATED AND EMBANKMENT AREAS.

3. THE MEASURES WILL BE INSTALLED AT THE LOCATIONS INDICATED IN THE "CONSTRUCTION SEQUENCE" SECTION AND AS SHOWN ON THE ENCLOSED PLAN SHEETS.

USE OF FILL FROM STRUCTURE EXCAVATIONS:

ALL NON-NATIVE MATERIAL EXCAVATED OR REMOVED DURING BRIDGE DEMOLITION OR EXCAVATION WILL BE DISPOSED OF OFF-SITE AND NOT RE-USED AS BACKFILL.

PROJECT SOILS

MAPPING UNIT	SOIL NAME
HzF	HAZELTON CHANNERY SANDY LOAM
WhB	WHARTON SILT LOAM
ChB	CHAVIES SILT LOAM
BrB	BRINKERTON SOILS

EROSION AND SEDIMENT POLLUTION CONTROL PLAN



CONSTRUCTION SEQUENCE NOTES:

THE ROCKINGHAM BRIDGE REPLACEMENT PROJECT CONSISTS OF THE FULL REPLACEMENT OF THE STRUCTURE CARRYING T-712 (WHISPERING PINES ROAD) OVER DARK SHADE CREEK AND LIMITED APPROACH ROADWAY WORK. THE ROCKINGHAM BRIDGE REPLACEMENT PROJECT IS LOCATED WITHIN SHADE TOWNSHIP, SOMERSET COUNTY. IT SHOULD BE NOTED THAT THE PROJECT BOUNDARY SHOWN AS THE LIMITS OF PERMANENT AND TEMPORARY RIGHT-OF-WAY, AS IDENTIFIED ON THE SITE PLAN, DOES NOT AUTHORIZE THE CONTRACTOR TO PERFORM WORK OUTSIDE OF THIS LIMIT, INCLUDING ANY WASTE OR BORROW AREAS REQUIRED FOR THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE TO OBTAIN APPROVAL FROM PENNDOT AND THE SOMERSET COUNTY CONSERVATION DISTRICT FOR ALL WORK OUTSIDE THE LIMITS OF DISTURBANCE INDICATED ON THE PLAN, INCLUDING ANY WASTE OR BORROW AREAS. WASTE AREAS 1 ACRE OR LARGER REQUIRE AN NPDES PERMIT, WHICH IS THE CONTRACTOR'S RESPONSIBILITY.

A SEQUENCE OF CONSTRUCTION HAS BEEN DEVELOPED TO MINIMIZE EROSION AND CONTROL SEDIMENT POLLUTION. THE SEQUENCING OF CONSTRUCTION IS AS FOLLOWS:

1. AT LEAST 7 DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, INCLUDING, CLEARING AND GRUBBING, INVITE ALL CONTRACTORS, THE DEPARTMENT'S REPRESENTATIVE, AND A REPRESENTATIVE FROM THE COUNTY CONSERVATION DISTRICT (CCD) OR PA DEP TO AN ON-SITE PRE-CONSTRUCTION MEETING.
2. THE PERMITTEE OR CO-PERMITTEE SHALL NOTIFY THE CCD/PA DEP UPON INSTALLATION OF ALL PERIMETER SEDIMENT CONTROL BMPS AND AT LEAST 3 BUSINESS DAYS PRIOR TO PROCEEDING WITH THE BULK EARTH DISTURBANCE ACTIVITIES.
3. AT LEAST 3 BUSINESS 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 AND REFERENCE THE FOLLOWING SERIAL NUMBERS: 20212322013 SHADE TOWNSHIP
4. PROCEED WITH ALL EARTH DISTURBANCE ACTIVITIES IN ACCORDANCE WITH THE BMP SEQUENCE. DEVIATION FROM THE SEQUENCE REQUIRES WRITTEN APPROVAL FROM THE CCD/PA DEP PRIOR TO IMPLEMENTATION. COORDINATE ANY/ALL PROPOSED CHANGES TO THE APPROVED PLAN WITH THE PENNDOT REPRESENTATIVE. UPON REVIEW AND CONCURRENCE WITH THE PENNDOT REPRESENTATIVE, COMMUNICATE CHANGES AS FOLLOWS:
 - i. DISCUSS THE SEQUENCE DEVIATION WITH THE CCD/PA DEP AND OBTAIN VERBAL APPROVAL.
 - ii. MODIFY THE ESPC PLAN (RED-LINE THE DRAWING) AND GET A SIGNATURE/INITIALS FROM THE CCD/PA DEP AT THE SITE OR GET ACKNOWLEDGEMENT THROUGH AN ELECTRONIC PERMITTING SYSTEM. RETAIN THE EARTH DISTURBANCE INSPECTION REPORT ACKNOWLEDGING THE FIELD CHANGE.
 - iii. IF NEEDED, FAX OR EMAIL THE MODIFIED SEQUENCE TO THE CCD/PA DEP.
5. 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.
6. 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 OF ACTIVE DISTURBANCE. INSTALL PROTECTIVE FENCING AROUND SENSITIVE AREAS SHOWN ON THE PLAN AND/OR IDENTIFIED DURING THE PRE-PROJECT EVALUATION. CONSTRUCTION VEHICLES ARE NOT PERMITTED TO ENTER AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE DRAWINGS.
7. UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, CONTACT THE CCD/PA DEP FOR AN INSPECTION PRIOR TO REMOVAL/CONVERSION OF ESPC BMPS. PERMANENTLY STABILIZED MEANS COVERED WITH EITHER (1) A MINIMUM UNIFORM 70% PERENNIAL VEGETATIVE COVER WITH A DENSITY CAPABLE OF RESISTING ACCELERATED EROSION AND SEDIMENTATION; OR (2) AN ACCEPTABLE BMP WHICH PERMANENTLY MINIMIZES ACCELERATED EROSION AND SEDIMENTATION.
8. UPON APPROVAL FROM THE CCD/PA DEP, REMOVE TEMPORARY ESPC BMPS AND CONVERT DESIGNATED SEDIMENT TRAPS/BASINS TO THEIR PERMANENT STORMWATER CONFIGURATIONS. IMMEDIATELY STABILIZE AREAS DISTURBED DURING REMOVAL OR CONVERSION OF BMPS. AVOID DOING REMOVAL AND CONVERSION DURING THE NONGERMINATING SEASON.
9. CONTACT THE CCD/PA DEP TO SCHEDULE A FINAL INSPECTION WHEN ALL ESPC BMPS ARE REMOVED AND/OR CONVERTED.
10. ANY PROPOSED CHANGES TO THE APPROVED PLAN MUST BE COORDINATED WITH PENNDOT DISTRICT 9-0. THE DISTRICT WILL PROVIDE NECESSARY CORRESPONDENCE TO THE REGULATORY AGENCIES FOR REVIEW AND APPROVAL.
11. NO IN-STREAM RESTRICTIONS ARE ANTICIPATED.

UTILITY RELOCATIONS:

1. INSTALL COMPOST FILTER SOCK ALONG THE PROPOSED TOE OF SLOPES AS INDICATED.
2. CLEAR AND GRUB SITE.
3. RELOCATE AERIAL UTILITES.
4. TREAT DISTURBED AREAS WITH TEMPORARY SEEDING AND SOIL SUPPLEMENTS AS SHOWN ON THE PLANS.

BRIDGE CONSTRUCTION:

1. IMPLEMENT DETOUR.
2. CONSTRUCT ROCK CONSTRUCTION ENTRANCE AS INDICATED.
3. PLACE TEMPORARY PROTECTIVE FENCE FOR PORTAGE PATHWAY AND OTHER AREAS AS INDICATED.
4. INSTALL IN-STREAM SIGN AND BUOYS ACCORDING TO AIDS TO NAVIGATION PLAN.
5. INSTALL THE CAUSEWAY AND TEMPORARY PIPES.
6. REMOVE THE EXISTING SUPERSTRUCTURE.
7. INSTALL THE TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM AT ABUTMENT 1.
8. INSTALL TEMPORARY STREAM DIVERSION FOR THE ABUTMENTS.
9. INSTALL PUMP HOSE AND PUMPED WATER FILTER BAGS AT THE LOCATIONS INDICATED.
10. TEMPORARILY WIDEN GRAVEL DRIVEWAY IN THE NORTHEAST QUADRANT AND INSTALL TEMPORARY BARRIER FOR EXCAVATION PROTECTION AT ABUTMENT 2.
11. REMOVE THE EXISTING SUBSTRUCTURE UNITS INCLUDING ABUTMENTS AND WINGWALLS.
12. EXCAVATE TO THE LINES AND GRADES INDICATED OR REQUIRED IN ACCORDANCE WITH PENNDOT PUBLICATION 408. DEWATER ALL OPEN EXCAVATIONS BY PUMPING THROUGH A PUMPED WATER FILTER BAG FOR TREATMENT BEFORE RELEASING THE WATER BACK TO THE STREAM.
13. INSTALL CONCRETE WASHOUTS FOR TREATMENT OF ON-SITE GENERATED CONCRETE WASHOUT WATER.
14. CONSTRUCT THE ABUTMENTS AND WINGWALLS. AFTER PROPER CURE TIME, BACKFILL BEHIND THE SUBSTRUCTURES AS SPECIFIED.
15. INSTALL THE PIPE EXTENSIONS AT WING A AND WING B.
16. PLACE ROCK PROTECTION, SELECTED BORROW EXCAVATION ROCK, CLASS R-8, CHOKED WITH R-4 IN FRONT OF THE ABUTMENTS AND WINGWALLS.
17. PLACE THE PRE-STRESSED CONCRETE BEAMS FOR THE PROPOSED STRUCTURE AND CONSTRUCT BRIDGE DECK AND BARRIERS.
18. REMOVE THE CAUSEWAY AND TEMPORARY PIPES.
19. EXCAVATE FOR ROADWAY CONSTRUCTION.
20. PLACE AND COMPACT THE ROADWAY EMBANKMENT AND ROCK CLASS R-4 ABOVE THE WINGWALLS. CONCURRENTLY, SEED AND MULCH AS SPECIFIED ALL FILL SLOPES AS THEY ARE COMPLETED. AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES (6 TO 12 INCHES ON COMPACTED SOILS) PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM 4 INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL SLOPES SHALL HAVE A MINIMUM OF 2 INCHES OF TOPSOIL. PLACE TEMPORARY, SHORT-TERM ROLLED EROSION BLANKET FOR AREAS 3:1 OR STEEPER OR WITHIN 50' OF DARK SHADE CREEK.
21. PLACE AND COMPACT THE ROADWAY SUBBASE.
22. COORDINATE RAILROAD GRADE CROSSING WORK WITH NORFOLK SOUTHERN..
23. PLACE THE ASPHALT BASE COURSE.
24. MILL THE REQUIRED PAVEMENT AREAS AS SHOWN ON THE CONTRACT DRAWINGS.
25. PLACE THE FINAL LEVELING AND WEARING COURSES.
26. PLACE SHOULDER BACKUP AND PRIME COAT.
27. CONSTRUCT THE GRAVEL DRIVEWAY IN THE NORTHEAST QUADRANT AND REMOVE TEMPORARY GRAVEL, PLACE TOPSOIL AND SEED.
28. INSTALL NEW GUIDE RAIL AND END TREATMENTS.
29. CLEANUP THE PROJECT SITE, REMOVING TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES WHEN STABILIZED. PROPERLY DISPOSE OF ALL ACCUMULATED SEDIMENT AND DEBRIS. RESEED AND MULCH ANY DISTURBED AREAS.
30. REMOVE REMAINING TRAFFIC CONTROL DEVICES WHEN APPROVED.

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	3 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

R:\8000_Sm_C02\1441_T-712_Rockingham Bridge_CADD\31_Traffic\Plan_A184\ESPC_02_Construction_Sequence.dgn 4/10/14 PM 2/2/2025

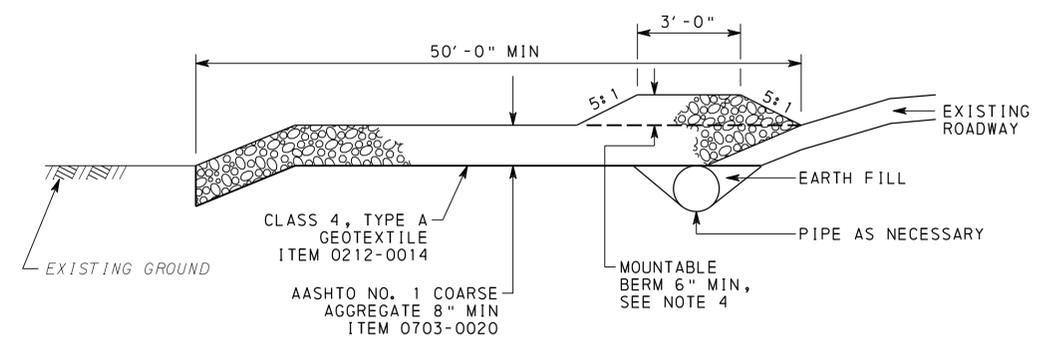
EROSION AND SEDIMENT POLLUTION CONTROL PLAN



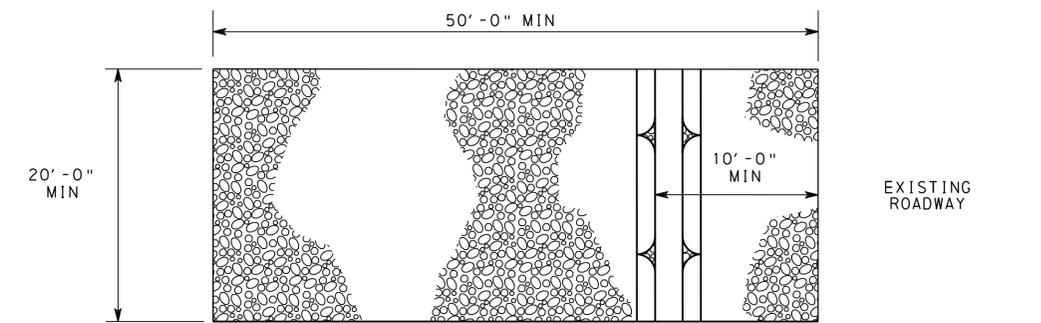
DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	5 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

NOTES

1. ESTABLISH AND MAINTAIN CONTINUOUS CONTACT BETWEEN THE ROLLED EROSION CONTROL PRODUCTS AND THE SOIL.
2. PROVIDE ANCHORING DEVICES IN ACCORDANCE WITH PUBLICATION 408/2020, SECTION 806.2(d).



PROFILE



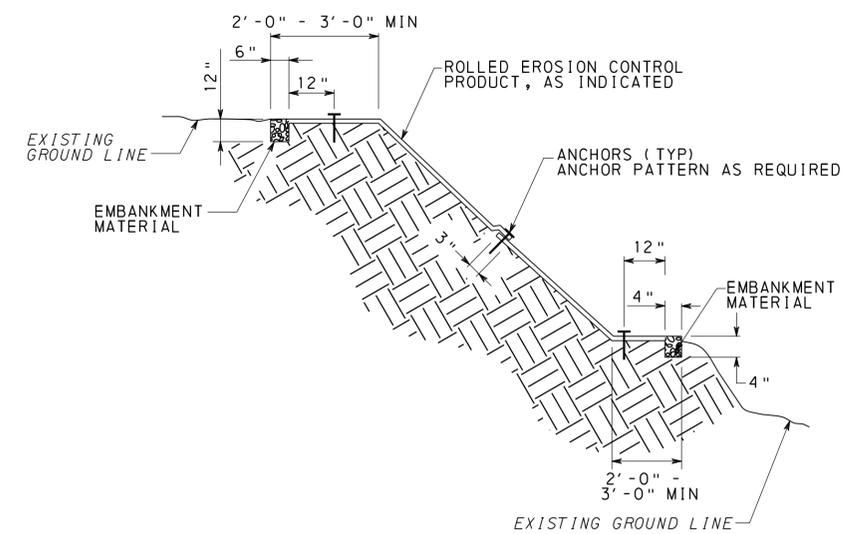
PLAN VIEW

NOTES:

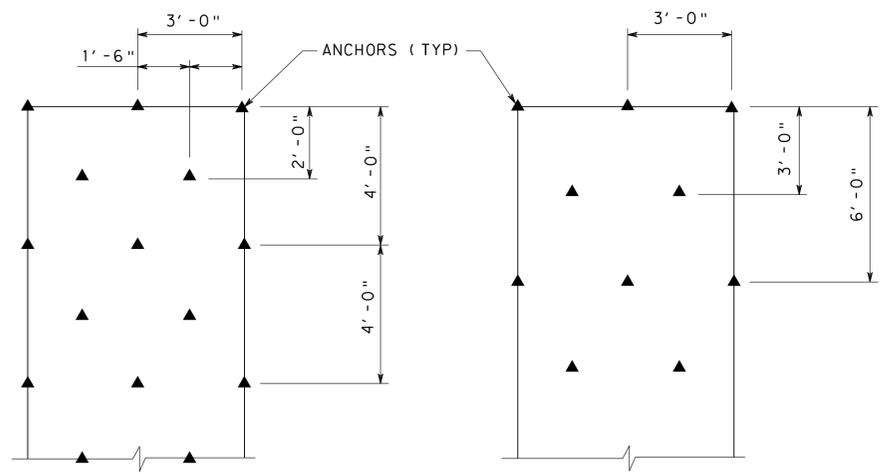
1. INSPECT THE ENTRANCE DAILY. REMOVE ALL SEDIMENT DEPOSITED ON THE PUBLIC ROADWAYS AND RETURN TO THE CONSTRUCTION SITE. WASHING OF THE ROADWAY WILL NOT BE PERMITTED.
2. MAINTAIN THE SPECIFIED ROCK CONSTRUCTION ENTRANCE THICKNESS. PLACE ADDITIONAL ROCK WHENEVER ROCK BECOMES CLOGGED WITH SEDIMENT.
3. 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 PER SPECIFICATION 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 IN ACCORDANCE WITH 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.

ROCK CONSTRUCTION ENTRANCE

NOT TO SCALE
ITEM 0203-0001
ITEM 0212-0014
ITEM 0703-0020



TYPICAL SLOPE CROSS-SECTION



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

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

ANCHOR PATTERN FOR SLOPES

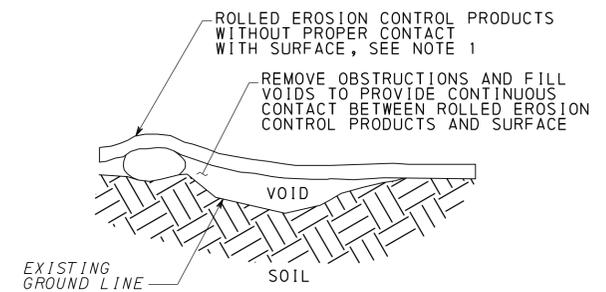


FIGURE 1
LACK OF CONTINUOUS CONTACT

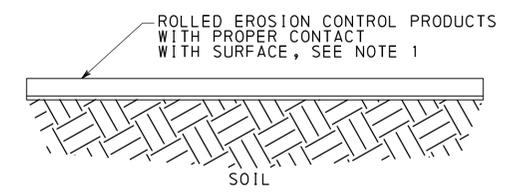


FIGURE 2
CONTINUOUS CONTACT

TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D

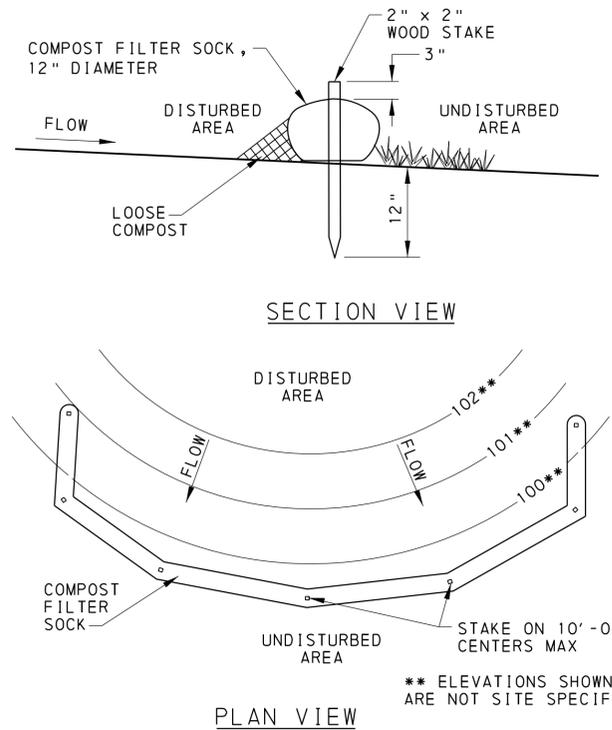
NOT TO SCALE
ITEM NO 0806-0113

EROSION AND SEDIMENT POLLUTION CONTROL PLAN



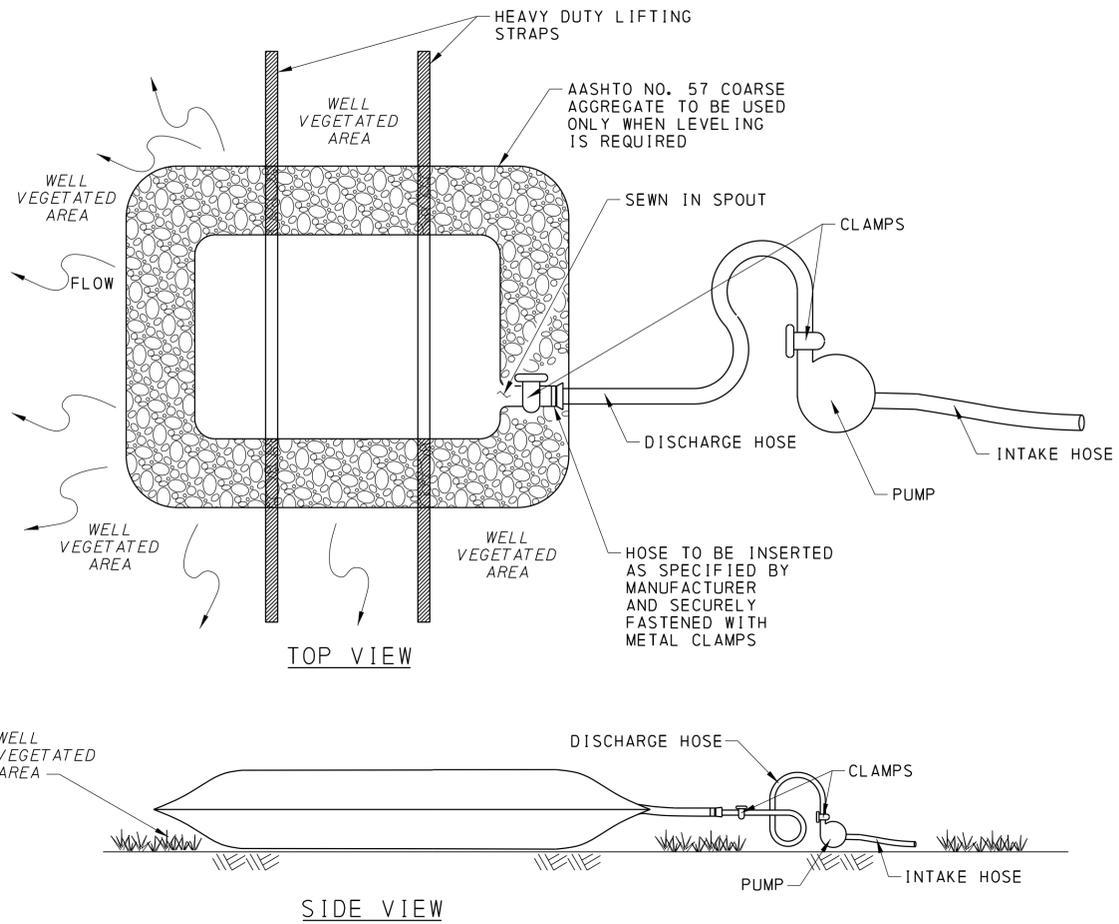
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	6 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



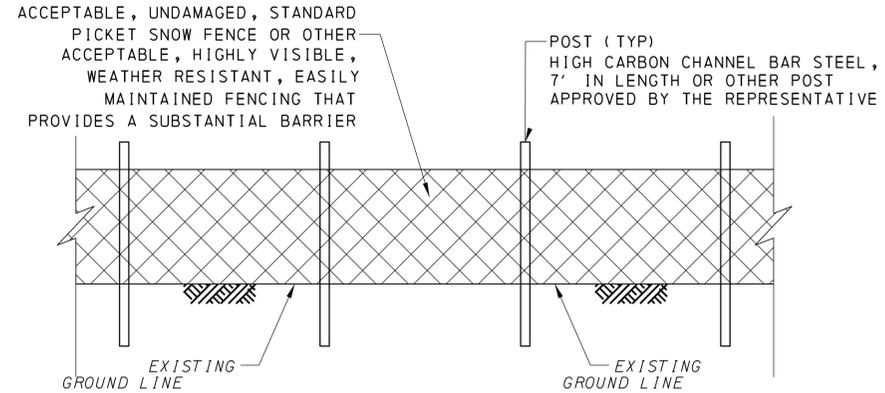
- NOTES:**
1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE-HALF OF THE EXPOSED COMPOST FILTER SOCK.
 2. PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
 3. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.
 4. 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, 12" DIAMETER
NOT TO SCALE
ITEM NO 0867-0012



**PUMPED WATER FILTER BAG
REPLACEMENT PUMPED WATER FILTER BAG**
NOT TO SCALE
ITEM NO 0855-0003
ITEM NO 0855-0004

- 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. THE ADDITIONAL BAGS WILL BE PAID AS EACH.
 6. REMOVE AND PROPERLY DISPOSE OF THE PUMPED WATER FILTER BAGS. RESTORE THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS IN PUBLICATION 408/2020. 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.



- NOTES:**
1. FENCE DESIRABLE WOODED AREAS, INDIVIDUAL TREES, AND SHRUBS DESIGNATED FOR PROTECTION, BEFORE BEGINNING OTHER GENERAL PROJECT WORK. WHERE DIRECTED, FENCE OTHER ADJACENT AREAS TO BE PROTECTED SUCH AS SEDIMENTATION TRAPS AND BASINS, EXISTING ARCHAEOLOGICAL SITES, AND EXISTING VEGETATED WETLAND AREAS. TO VERIFY EXTENT OF PROTECTION, CONDUCT A FIELD OBSERVATION BEFORE CLEARING AND GRUBBING OPERATIONS WITH THE REPRESENTATIVE, AND IF NECESSARY, THE DESIGN PROJECT MANAGER AND THE DISTRICT ENVIRONMENTAL MANAGER.
 2. DO NOT STOCKPILE MATERIALS UNDER, OR WITHIN, PROTECTED VEGETATION AREAS. PROHIBIT CONSTRUCTION TRAFFIC WITHIN PROTECTED AREAS. PLACE THE FENCE AT THE DRIPLINE OF TREES OR PLANTS, BUT AVOID CAUSING ROOT DAMAGE WHEN DRIVING POSTS. REPLACE DAMAGED FENCE IN KIND WITHIN 24 HOURS OF DAMAGE, AS DIRECTED. REMOVE TEMPORARY PROTECTIVE FENCE WHEN DIRECTED OR AFTER COMPLETION OF THE PROJECT.

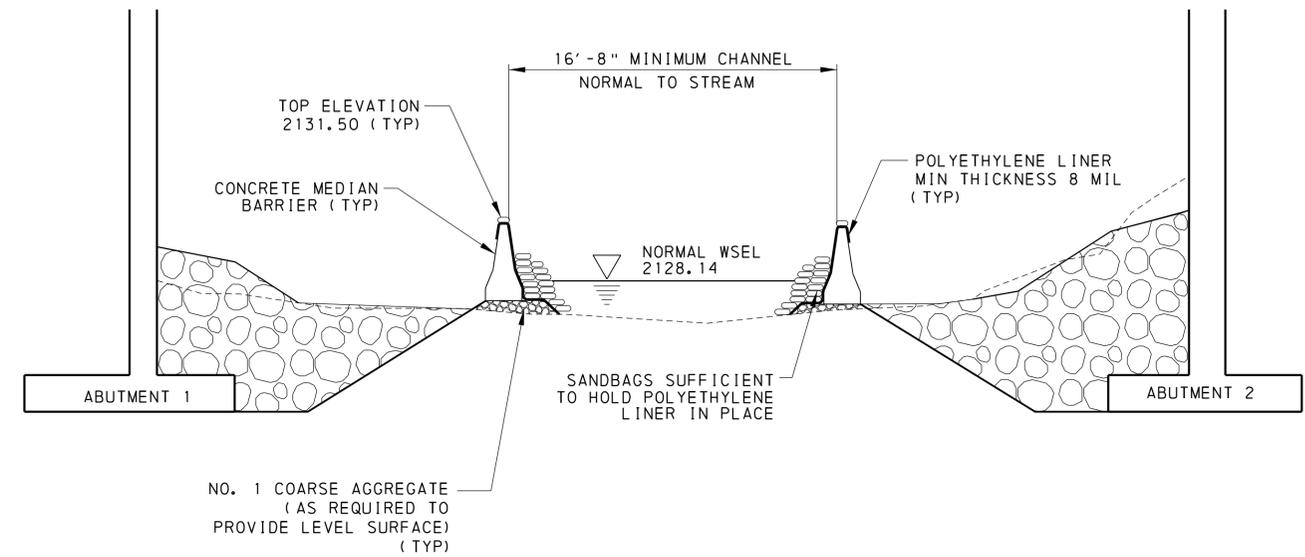
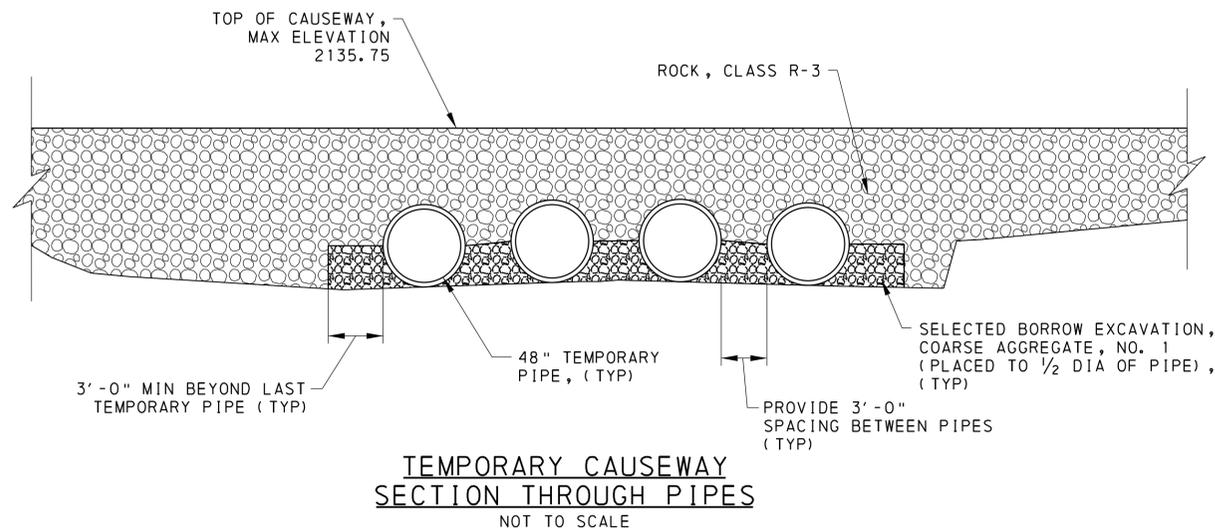
TEMPORARY PROTECTIVE FENCE
NOT TO SCALE
ITEM NO 0811-0003

**EROSION AND SEDIMENT
POLLUTION CONTROL PLAN**



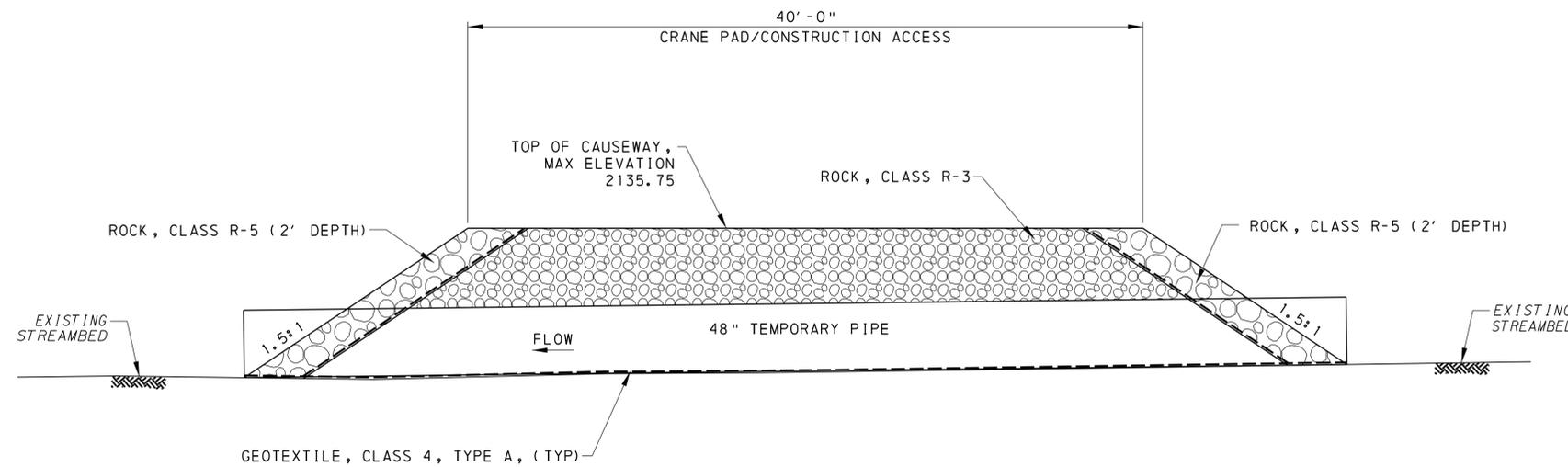
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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	7 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED



- NOTES:**
1. PROVIDE SANDBAGS TO FILL GAPS BETWEEN BARRIER SECTIONS AT CORNERS.
 2. SANDBAGS MAY BE USED IN LIEU OF PRECAST CONCRETE MEDIAN BARRIER.
 3. IF A PRE-MANUFACTURED TEMPORARY STREAM DIVERSION SYSTEM IS USED, ADHERE TO THE MANUFACTURER'S SPECIFICATIONS.

TEMPORARY CHANNEL DIVERSION
NOT TO SCALE
ITEM NO 9000-0020



NOTE:
SEE SECTION THROUGH PIPES (THIS SHEET) FOR PLACEMENT OF SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 1 AND PIPE SPACING REQUIREMENTS

TEMPORARY CAUSEWAY
STA 1201+86 TO STA 1203+93
NOT TO SCALE

EROSION AND SEDIMENT POLLUTION CONTROL PLAN



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DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	9 OF 9
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

NOTES

1. TEMPORARY CAUSEWAYS, COFFERDAMS, AND DIVERSION DIKES ARE WATER OBSTRUCTIONS AND ENCROACHMENTS REGULATED UNDER CHAPTER 105 AND ARE NOT TO BE MODIFIED WITHOUT AN AUTHORIZATION AMENDMENT.
2. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
3. IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION, THE CONTRACTOR SHALL IMPLEMENT APPROPRIATE BEST MANAGEMENT PRACTICES TO ELIMINATE THE POTENTIAL FOR ACCELERATED EROSION AND/OR SEDIMENT POLLUTION.
4. SEE SHEET 7 FOR TEMPORARY CAUSEWAY AND TEMPORARY CHANNEL DIVERSION DETAILS.
5. REMOVE ANY DEBRIS THAT INADVERTENTLY FALLS INTO THE STREAM BY THE CLOSE OF EACH DAY.
6. ALL EXISTING VEGETATION, INCLUDING TREES AND SHRUBS, ALONG THE STREAMBANK SHALL BE PRESERVED TO THE EXTENT PRACTICAL.
7. CONTRACTOR SHALL ALLOW THE CONCRETE TO HARDEN ENOUGH TO SUPPORT FOOT TRAFFIC. CONTRACTOR SHALL FLUSH THE CONCRETE WITH WATER AND PUMP TO AN UPLAND INFILTRATION AREA INSURING IT DOES NOT RE-ENTER STREAM. THE DIVERSION DIKE SHALL NOT BE REMOVED UNTIL A PROPERLY CALIBRATED PH METER SHOWS THE PH OF THE WASH WATER IS LESS THAN 9.0.

EXISTING STRUCTURE DATA

STA 202+33.14
 TYPE: SINGLE-SPAN, STEEL PONY TRUSS
 SPAN: 57'-0" @ BRG TO @ BRG, 49'-5 1/4" NORMAL CLEAR SPAN
 UNDER CLEARANCE: 9.22'
 SKEW: 90°00'00"
 CLEAR RDWY WIDTH: 11'-0 1/4"
 STRUCTURE NO: BMS#55-7220-0712-3056
 DATE BUILT: 1900

PROPOSED STRUCTURE DATA

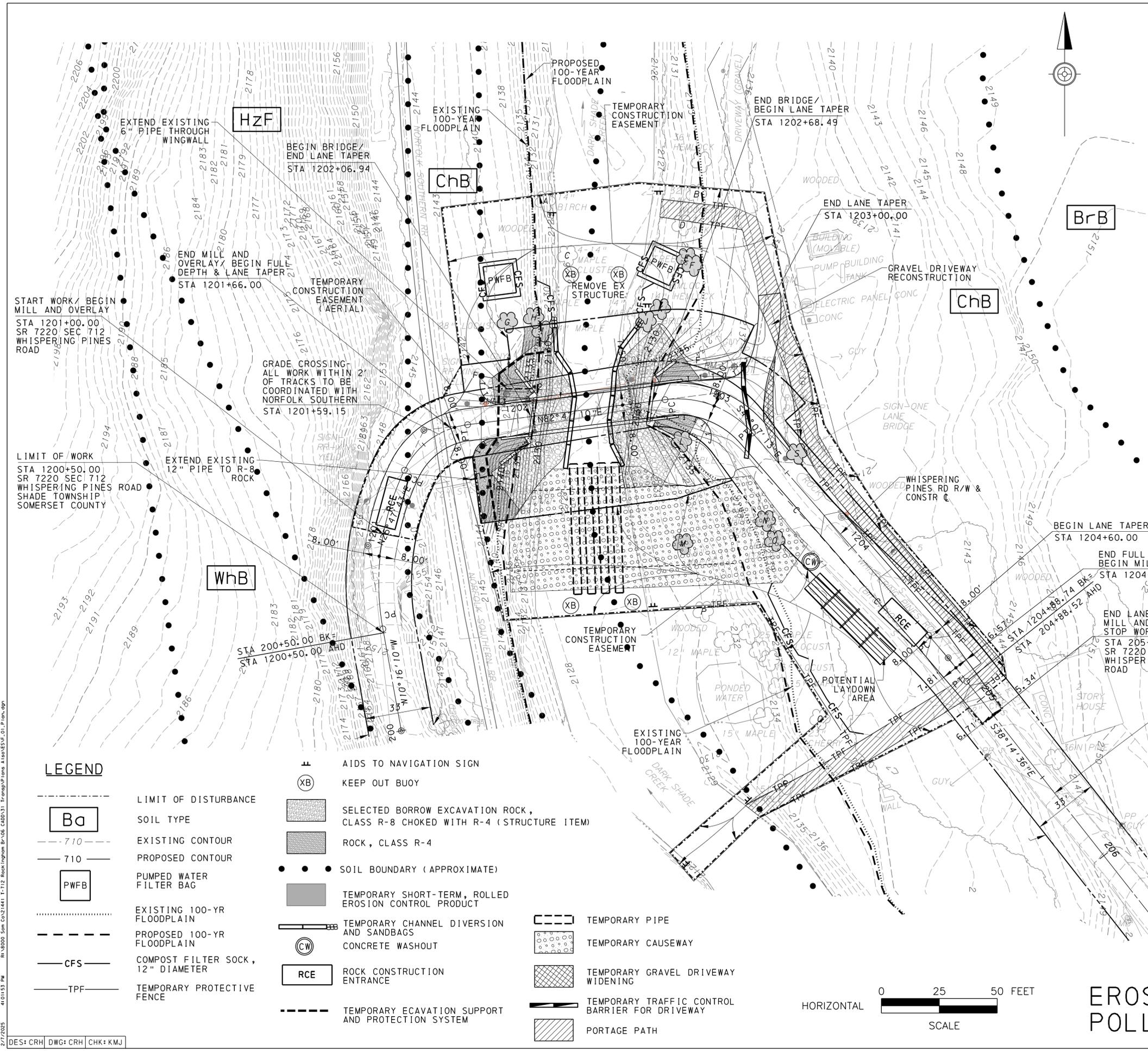
STA 1202+07.71
 TYPE: 1 SPAN COMP P/S CONC SPREAD BOX BEAM
 SPAN: 60'-0" @ BRG TO @ BRG, 56'-5 1/2" NORMAL CLEAR SPAN
 UNDER CLEARANCE: 9.25'
 SKEW: 75° LT
 CLEAR RDWY WIDTH: 15'-6" CURB TO CURB

HYDRAULIC DATA

DRAINAGE AREA = 29.80 SQ MI
 DESIGN DISCHARGE = 10 YEAR
 MAGNITUDE = 2592 CFS
 WATER SURFACE ELEVATION = 2132.96'
 CHANNEL VELOCITY = 11.33 FPS

100 YEAR FLOOD RISK ASSESSMENT

MAGNITUDE = 5232 CFS
 WATER SURFACE ELEVATION = 2135.82'
 CHANNEL VELOCITY = 14.21 FPS



LEGEND

- LIMIT OF DISTURBANCE
- SOIL TYPE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PUMPED WATER FILTER BAG
- EXISTING 100-YR FLOODPLAIN
- PROPOSED 100-YR FLOODPLAIN
- COMPOST FILTER SOCK, 12" DIAMETER
- TEMPORARY PROTECTIVE FENCE
- AIDS TO NAVIGATION SIGN
- KEEP OUT BUOY
- SELECTED BORROW EXCAVATION ROCK, CLASS R-8 CHOKED WITH R-4 (STRUCTURE ITEM)
- ROCK, CLASS R-4
- SOIL BOUNDARY (APPROXIMATE)
- TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT
- TEMPORARY CHANNEL DIVERSION AND SANDBAGS
- CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE
- TEMPORARY EROSION CONTROL SUPPORT AND PROTECTION SYSTEM
- TEMPORARY PIPE
- TEMPORARY CAUSEWAY
- TEMPORARY GRAVEL DRIVEWAY WIDENING
- TEMPORARY TRAFFIC CONTROL BARRIER FOR DRIVEWAY
- PORTAGE PATH



EROSION AND SEDIMENT POLLUTION CONTROL PLAN



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BRIDGE DESIGN PREPARED BY:

DISTRICT 9-0 PROJECT MANAGER: NATHAN J MILAZZO, PE
 CONSULTANT PROJECT MANAGER: KELLY M JONES, PE
 CONSULTANT BRIDGE PROJECT MANAGER: CORY R HANCOCK, PE

ECMS NO 72477

SOMERSET COUNTY

DRAWINGS FOR BRIDGE CONSTRUCTION OF

STATE ROUTE 7220 SECTION 0712

IN SOMERSET COUNTY

SCOPE OF WORK (OVERVIEW)

- INSTALL TRAFFIC CONTROL DEVICES FOR DETOUR ROUTE.
- CONSTRUCT CAUSEWAY.
- REMOVE EXISTING SUPERSTRUCTURE.
- REMOVE EXISTING ABUTMENTS.
- CONSTRUCT NEW FOOTINGS, ABUTMENT STEMS AND WINGWALLS.
- PLACE P/S CONCRETE COMPOSITE SPREAD BOX BEAM SUPERSTRUCTURE.
- REMOVE CAUSEWAY.
- CONSTRUCT ROADWAY APPROACHES.
- REMOVE TRAFFIC CONTROL DEVICES.

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

BMS STR ID: 55-7220-0712-3056 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

SOMERSET COUNTY
SR 7220 SEC 0712
WHISPERING PINES ROAD (T-712)
SR 7220 SECTION 0712 STA 1202+37.71
OVER DARK SHADE CREEK
1-SP COMP P/S CONC SPR BOX BM BRIDGE
TITLE SHEET

SHEET 1 OF 6
+ SUPPLEMENTAL
DRAWINGS
L-609

PERMANENT METAL DECK FORMS	BC-732M	11-23-22
ANCHOR SYSTEMS	BC-734M	02-19-21
WALL CONSTRUCTION & EXPANSION JOINT DETAILS	BC-735M	09-30-16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	11-23-22
BRIDGE DRAINAGE	BC-751M	01-31-19
CONCRETE DECK SLAB DETAILS	BC-752M	11-23-22
BEARINGS	BC-755M	01-31-19
MISCELLANEOUS PRESTRESS DETAILS	BC-775M	11-23-22
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-23-22
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	06-01-10
BACKFILL AT STRUCTURES	RC-12M	11-01-22
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	02-27-23
TYPE 31 STRONG POST GUIDE RAIL	RC-51M	09-01-23
DESCRIPTION	DWG NO	REC'D DATE

SUPPLEMENTAL DRAWINGS

THE BRIDGE PLANS WERE DEVELOPED USING THE BRADD SYSTEM, VERSION 3.2.8.0 BASED UPON INFORMATION SUPPLIED BY THE EADS GROUP.

PLANS PREPARED BY
Engineers • Architects • Design • Services



Altoona

2/13/2025

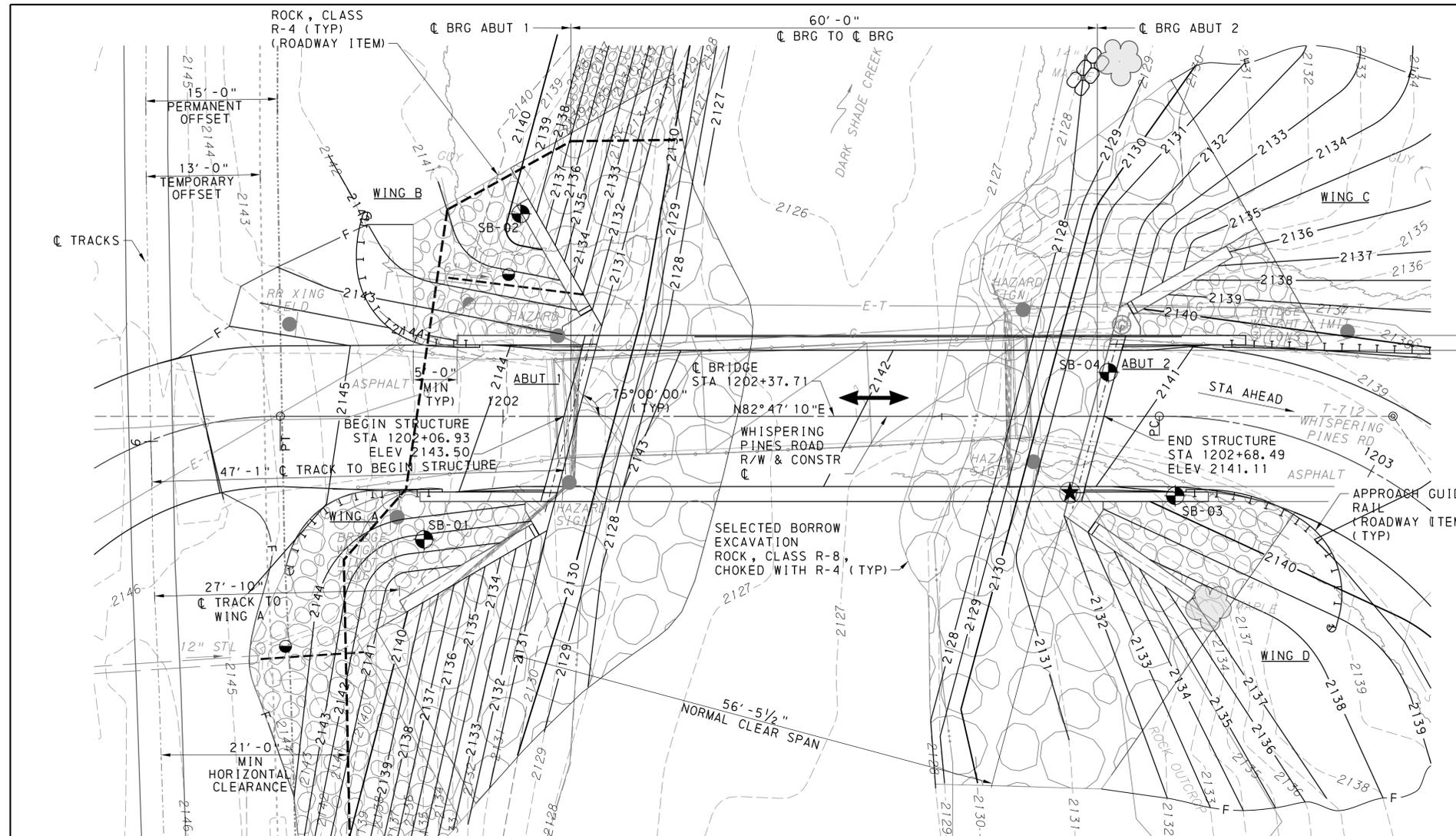


Cory R. Hancock

CORY R. HANCOCK, P.E.

INDEX OF DRAWINGS

SHEET NUMBER	TITLE
1	TITLE SHEET
2	TYPE, SIZE & LOCATION PLAN
3	QUANTITIES
4	GENERAL NOTES
5	TYP SECT & ELEVATION CHART
6	DECK & BEAM ELEV AT 10TH POINTS



AVERAGE DAILY TRUCK TRAFFIC

ADTT = 2 (2027)
ADTT = 2 (2047)

HORIZONTAL CURVE DATA

PI STA 1203+01.43
Δ = 56°05'37" RT
D = 114°35'30"
T = 26.64'
L = 48.95'
R = 50.00'
E = 6.65'
PC STA 1202+74.79
PT STA 1203+23.74
SE = 2% (ROTATED ABOUT C ROADWAY)

PROPOSED WINGWALL DATA

WING	ANGLE	LENGTH	THICKNESS	ELEV FREE END
A	45°	17'-6"	1'-6"	2141.00
B	45°	14'-6"	1'-6"	2139.75
C	45°	13'-0"	1'-6"	2137.00
D	70°	14'-0"	1'-6"	2138.00

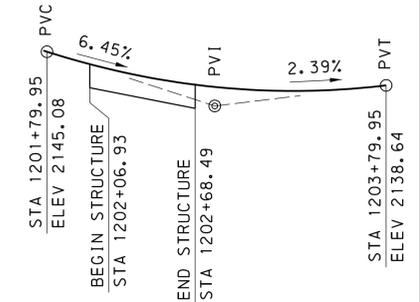
NOTE: WING LENGTH MEASURED FROM 1/2" EXPANSION JOINT TO END OF WALL.

VERTICAL CURVE DATA

PVI STA 1202+79.95
ELEV 2138.64
VC 200.00'
MO 2.21'
HLS 142.74'

PROPOSED BORING LOCATION

NUMBER	STATION	OFFSET
SB-01	1201+91	14' RT
SB-02	1202+02	23' LT
SB-03	1202+77	9' RT
SB-04	1202+69	5' LT



LEGEND

- POINT OF MINIMUM VERTICAL UNDERCLEARANCE
- DIRECTION OF TRAFFIC
- PROPOSED BORING
- EXISTING CONTOUR
- PROPOSED CONTOUR
- APPROXIMATE LOCATION OF TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM
- ELECTRIC/TELEPHONE
- METHANE LINE (TO BE RELOCATED OUTSIDE PROJECT LIMITS)

HYDRAULIC DATA

DRAINAGE AREA = 29.80 SQ MI
DESIGN FLOOD CRITERIA:
MAGNITUDE = 2592 CFS
FREQUENCY = 10 YEARS
BRIDGE OPENING VELOCITY = 11.33 FPS
WS ELEV = 2132.96
100 YR FLOOD RISK ASSESSMENT:
MAGNITUDE = 5232 CFS
BRIDGE OPENING VELOCITY = 14.21 FPS
WS ELEV = 2135.82
FLOOD OF RECORD - NOT DOCUMENTED

MINIMUM VERTICAL UNDERCLEARANCE
EXISTING = 9.83'
PROPOSED = 9.86'



PIPE EXTENSION AND END SECTION AT WING A, PIPE EXTENSION AND OUTLET THROUGH WINGWALL, WING B. DRAINAGE DESIGN/COORDINATION WITH NORFOLK SOUTHERN IS ONGOING.

PROPOSED STRUCTURE DATA

STA 1202+37.71
TYPE: PRESTRESSED SPREAD BOX BEAM BRIDGE
SPAN: 60'-0" C TO C BRG (56'-5 1/2" NORMAL CLEAR SPAN)
UNDERCLEARANCE: 9.86'
SKEW: 75° LT
CLEAR ROADWAY WIDTH: 15'-6" CURB TO CURB

EXISTING STRUCTURE DATA

STA 202+33.14
TYPE: SINGLE-SPAN, STEEL PONY TRUSS
SPAN: 57'-0" C BRG TO C BRG, 49'-5 1/4" NORMAL CLEAR SPAN
UNDER CLEARANCE: 9.83'
SKEW: 90°00'00"
CLEAR RDWY WIDTH: 11'-0 1/4"
STRUCTURE NO: BMS#55-7220-0712-3056
DATE BUILT: 1900

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

BMS STR ID: 55-7220-0712-0356 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

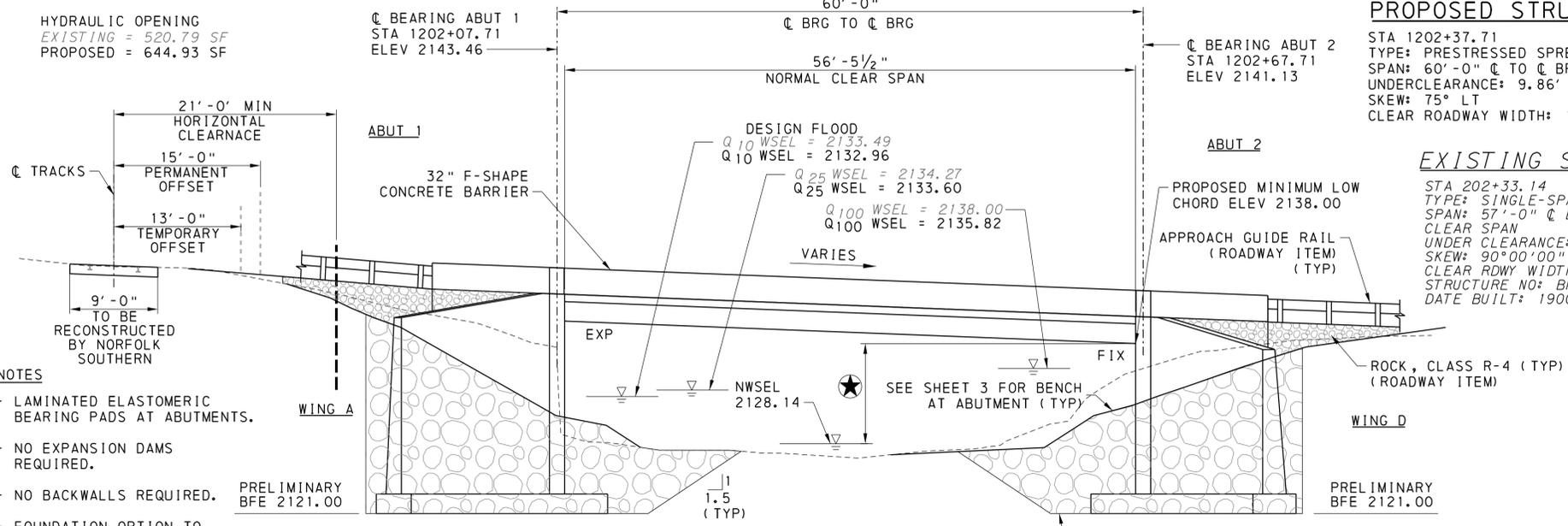
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
SOMERSET COUNTY
SR 7220 SEC 0712
WHISPERING PINES ROAD (T-712)
SR 7220 SECTION 0712 STA 1202+37.71
OVER DARK SHADE CREEK
1-SP COMP P/S CONC SPR BOX BM BRIDGE
TYPE, SIZE & LOCATION PLAN



CORY R. HANCOCK, P.E.

SHEET 2 OF 6

L-609



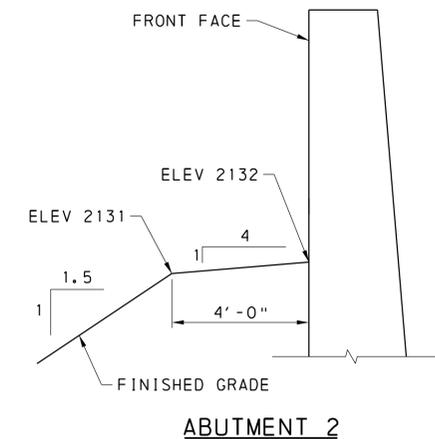
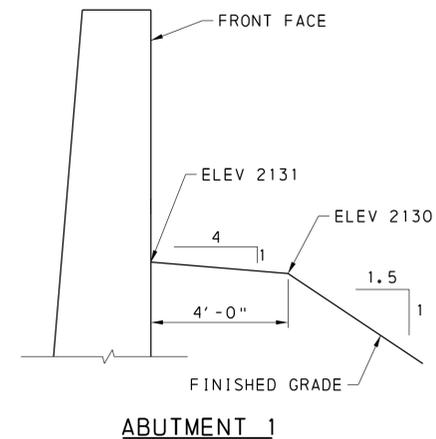
- NOTES**
- LAMINATED ELASTOMERIC BEARING PADS AT ABUTMENTS.
 - NO EXPANSION DAMS REQUIRED.
 - NO BACKWALLS REQUIRED.
 - FOUNDATION OPTION TO BE DETERMINED DURING FOUNDATION SUBMISSION. SPREAD FOOTING ASSUMED FOR COST ESTIMATE.

RA:8000.dwg; Co:21441; T-712 Rock-Ingham Br-V06 CADD\32 Structures\T5 and L\02_T5&L.dgn
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ALTERNATE STRUCTURE ITEMS			
ITEM NO	ITEM	UNIT	TOTAL
8010-0001	BRIDGE STRUCTURE, AS DESIGNED, L-XXX	LS	LUMP SUM
8000-0001	PRESTRESSED CONCRETE BRIDGE STRUCTURE	LS	LUMP SUM
8100-0001	STEEL BRIDGE STRUCTURE	LS	LUMP SUM

APPROXIMATE QUANTITIES - BRIDGE STRUCTURE, AS DESIGNED						
ITEM NO	ITEM	UNIT	ABUT 1	ABUT 2	SUPER	TOTAL
8010-0001	BRIDGE STRUCTURE, AS DESIGNED, L-XXX (9)	LS				
(1)	CLASS 3 EXCAVATION	CY	1642	1256	---	2898
(1)	MEMBRANE WATERPROOFING SYSTEM INSTALLED ON OTHER SURFACES	SY	27	26	---	53
(1)	SELECTED BORROW EXCAVATION, COARSE AGGREGATE, NO. 57	CY	3	3	---	6
(1)	CLASS AAAP CEMENT CONCRETE	CY	---	---	37 (2)	37
(1)	CLASS AA CEMENT CONCRETE	CY	39 (3)	34 (3)	19 (4)	92 (5)
(1)	CLASS A CEMENT CONCRETE	CY	143	110	---	253
(1)	STRUCTURE BACKFILL	CY	487	436	---	923
(1)	SELECTED BORROW EXCAVATION, ROCK, CLASS R-8, CHOKED WITH R-4	CY	432	379	---	811
(1)	PRESTRESSED CONCRETE SPREAD BOX BEAMS, 48" X 24", THICKENED BOTTOM FLANGE	LF	---	---	185	185
AND						
1002-0053	REINFORCEMENT BARS, EPOXY COATED (6)	LB	18110	13971	9034	41115
AND						
1002-0220	STAINLESS STEEL REINFORCEMENT BARS (6)	LB	---	50	---	50
AND						
1019-0050	PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALERS, BRIDGE SUPERSTRUCTURE) (7)	SY	---	---	160	160
0204-0100	CLASS 3 EXCAVATION	CY	25	19	---	44
0703-0025	NO 57 COARSE AGGREGATE	CY	25	19	---	44
1018-0050	REMOVAL OF EXISTING BRIDGE	LS	---	---	---	1
9203-0101	TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM (8)	LS	---	---	---	1

- (1) ITEMS IN BRIDGE STRUCTURE LUMP SUM ITEM 8010-0001 - GIVEN FOR INFORMATION ONLY.
- (2) INCLUDES CLASS AAAP CEMENT CONCRETE IN DECK SLAB AND APPROXIMATELY 1 CUBIC YARDS OF CLASS AAAP CEMENT CONCRETE TO ACCOUNT FOR STAY-IN-PLACE FORM TROUGHS.
- (3) INCLUDES CLASS AA CEMENT CONCRETE IN SHEAR BLOCKS, ABUTMENT BACKWALLS, CHEEKWALLS AND U-WINGS ABOVE THE HORIZONTAL CONSTRUCTION JOINT NEAR THE BRIDGE SEAT. INCLUDES ALL OF SAFETY WING.
- (4) INCLUDES CLASS AA CEMENT CONCRETE IN CURBS, CONCRETE DIAPHRAGMS AND BARRIERS.
- (5) QUANTITY TO BE USED FOR CLASS AA CEMENT CONCRETE UNDER THE DECK COLUMN HEADING ON THE STRUCTURE COST DATA FORM.
- (6) FOR AS DESIGNED STRUCTURE, INCLUDED IN BRIDGE BID ITEMS.
FOR ALTERNATE DESIGNS, INCLUDED IN BRIDGE STRUCTURE LUMP SUM BID ITEM.
- (7) ONLY APPLY PROTECTIVE COATING IF CONCRETE IS POURED BETWEEN SEPTEMBER 1 AND MARCH 1 PER PUBLICATION 408/2020, SECTION 1001.3(K)6.
- (8) FOR INFORMATION ONLY, SF OF EXPOSED SURFACE AREA.
ABUTMENT 1 = 1891 SF
- (9) FOUNDATION OPTION TO BE DETERMINED DURING FOUNDATION SUBMISSION. SPREAD FOOTING ASSUMED FOR COST ESTIMATE.



ABUTMENT BENCHING DETAIL
NOT TO SCALE

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

BMS STR ID: 55-7220-0712-0356 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

SOMERSET COUNTY
SR 7220 SEC 0712
WHISPERING PINES ROAD (T-712)
SR 7220 SECTION 0712 STA 1202+37.71
OVER DARK SHADE CREEK
1-SP COMP P/S CONC SPR BOX BM BRIDGE
QUANTITIES



CORY R. HANCOCK, P.E.

SHEET 3 OF 6

L-609

GENERAL NOTES

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2020 AND THE CONTRACT SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS:

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

LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM-4 DISTRIBUTION FACTOR 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:

PRESTRESSED CONCRETE: ADTT 2 (2047)
(ONE-DIRECTIONAL)

MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE:
0.0948 * SQUARE ROOT (f'c).

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.

GENERAL:

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

IF CONCRETE DIAPHRAGMS ARE POURED MONOLITHICALLY WITH THE DECK, USE CLASS AAAP CEMENT CONCRETE FOR THE DIAPHRAGMS AT NO ADDITIONAL COST TO THE DEPARTMENT.

USE CLASS AAAP CEMENT CONCRETE IN:
DECK SLAB

USE CLASS AA CEMENT CONCRETE IN:
CURBS
BARRIERS
CONCRETE DIAPHRAGMS
SAFETY WINGS
CHEEK WALLS
SHEAR BLOCKS
FOOTINGS (WHEN SPECIFIED)

USE CLASS A CEMENT CONCRETE IN:
ABUTMENTS BELOW BEAM SEAT
WINGWALLS
FOOTINGS

USE CLASS C CEMENT CONCRETE BELOW THE BOTTOM OF FOOTINGS WHEN SPECIFIED.

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

PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615 OR A 706. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED.

USE EPOXY-COATED REINFORCEMENT BARS IN:
DECK SLAB
SIDEWALKS
BARRIERS
STIRRUPS PROTRUDING FROM DIAPHRAGMS AND PRESTRESSED BEAMS INTO THE DECK SLAB
ABUTMENT BACKWALLS
U-WINGS ABOVE THE CONSTRUCTION JOINT
ABUTMENT SEAT BARS WHERE EXPANSION DAMS ARE USED
J-BAR REINFORCEMENT IN SUBSTRUCTURE UNITS
SUBSTRUCTURE REINFORCEMENT BARS AS INDICATED

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

USE STAINLESS STEEL DOWEL BARS PER PUBLICATION 408/2020 SECTION 709.1 (f).

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

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

SEISMIC FORCES WERE CONSIDERED FOR A SITE CLASS OF A-E.

CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.

PLACE CHEEKWALL, CONCRETE SHEAR BLOCKS, AND BACKWALL CONCRETE AFTER BEAMS ARE SET IN POSITION.

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

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES F.

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

DECK SLAB THICKNESS INCLUDES A 0.5" INTEGRAL WEARING SURFACE.

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

PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k) 9.

CONTRACTOR IS SOLELY RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SLOPES AND THE DESIGN OF ANY TEMPORARY SHORING AND BRACING THAT MAY BE USED. PERFORM ALL EXCAVATIONS IN ACCORDANCE WITH OSHA REQUIREMENTS.

DIRECT ALL SURFACE RUNOFF AWAY FROM EXCAVATIONS.

NOTIFY THE REGIONAL HEADQUARTERS OF THE FISH COMMISSION PRIOR TO CONSTRUCTION AND COOPERATE WITH THE FISH COMMISSION DURING CONSTRUCTION. THE WATERWAY CONSERVATION OFFICER FOR THIS PROJECT IS

NAME: PENNSYLVANIA FISH & BOAT COMMISSION SOUTHWEST REGION OFFICE
ADDRESS: 236 LAKE ROAD, SOMERSET, PA 15501
TELEPHONE: 814-445-8974
EMAIL: RA-FBSWRLE@PA.GOV

UTILITY NOTES:

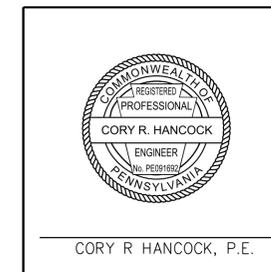
COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2020, SECTIONS 105.06 AND 107.12.

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

BMS STR ID: 55-7220-0712-0356 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

SOMERSET COUNTY
SR 7220 SEC 0712
WHISPERING PINES ROAD (T-712)
SR 7220 SECTION 0712 STA 1202+37.71
OVER DARK SHADE CREEK
1-SP COMP P/S CONC SPR BOX BM BRIDGE
GENERAL NOTES



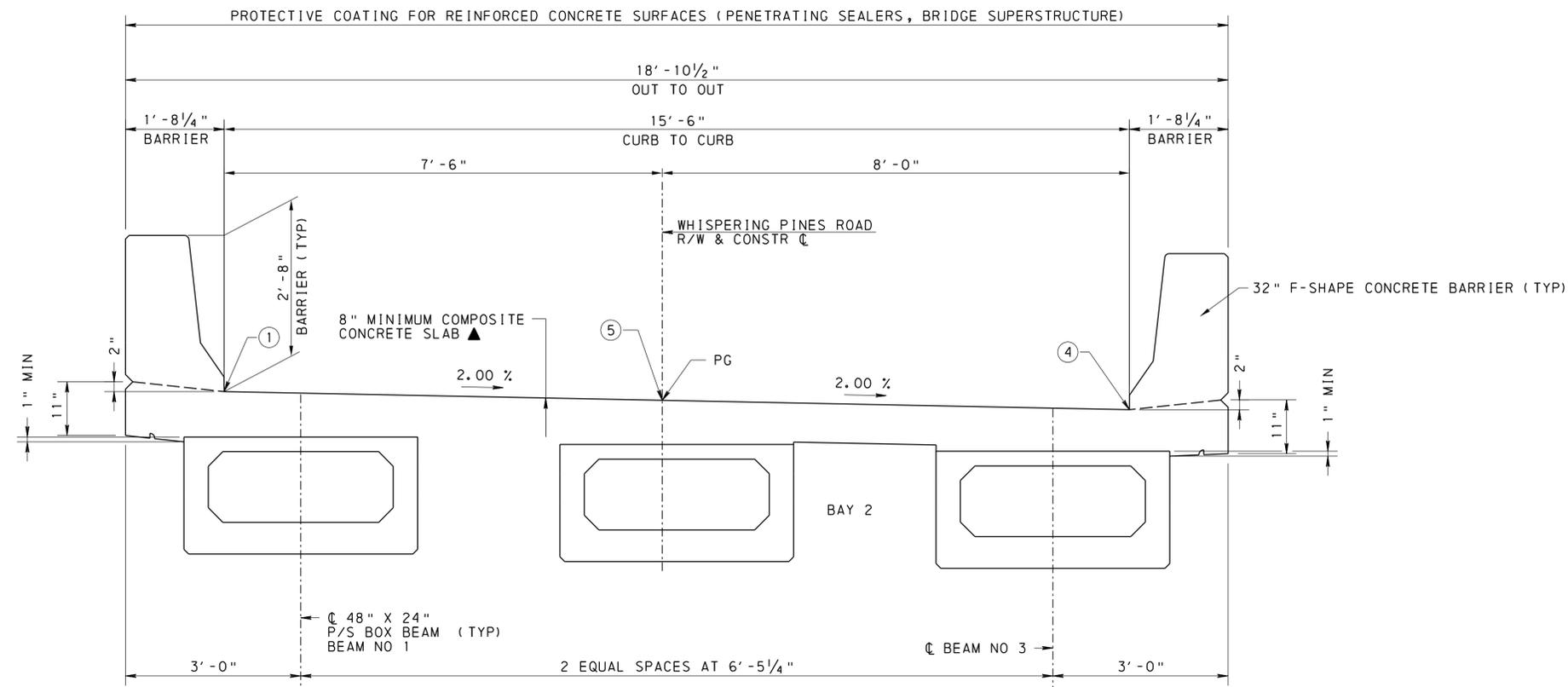
CORY R HANCOCK, P.E.

SHEET 4 OF 6

L - 609

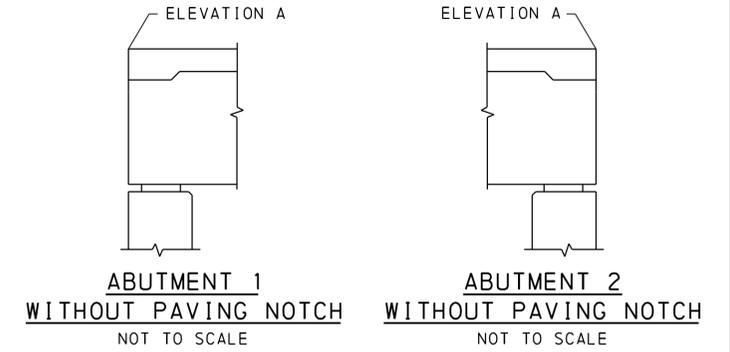
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DES: CRH | DWG: CRH | CKD: MTK



NOTES:
 1/2" MINIMUM HAUNCH
 ▲ 1/2" INTEGRAL CONCRETE WEARING SURFACE

TYPICAL SECTION
 LOOKING AHEAD STATIONS
 12 0 12 INCHES



	TRANSVERSE LOCATION	STATION	ELEVATION
ABUT 1 ELEVATION A	PT ①	1202+08.94	2143.56
	PT ⑤	1202+06.93	2143.51
	PT ④	1202+04.79	2143.47
ABUT 2 ELEVATION A	PT ①	1202+70.50	2141.21
	PT ⑤	1202+68.49	2141.11
	PT ④	1202+66.34	2141.01

**ELEVATION TABLE
TOP OF SLAB ELEVATION**

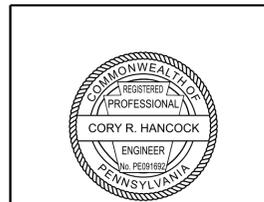
STATION	PT ①	PT ⑤	PT ④
1202+05.57	—	—	2143.42
1202+07.71	—	2143.47	2143.31
1202+09.72	2143.52	2143.37	2143.21
1202+10.00	2143.50	2143.35	2143.19
1202+20.00	2143.01	2142.86	2142.70
1202+30.00	2142.57	2142.42	2142.26
1202+40.00	2142.16	2142.01	2141.85
1202+50.00	2141.81	2141.66	2141.50
1202+60.00	2141.49	2141.34	2141.18
1202+65.57	2141.34	2141.19	2141.03
1202+67.71	2141.28	2141.13	—
1202+69.72	2141.23	—	—

ELEVATIONS GIVEN AT THE FIRST AND LAST STATIONS LISTED FOR EACH POINT ARE LOCATED AT THE C OF BEARING.

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

BMS STR ID: 55-7220-0712-0356 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 SOMERSET COUNTY
 SR 7220 SEC 0712
 WHISPERING PINES ROAD (T-712)
 SR 7220 SECTION 0712 STA 1202+37.71
 OVER DARK SHADE CREEK
 1-SP COMP P/S CONC SPR BOX BM BRIDGE
 TYP SECT & ELEVATION CHART



CORY R HANCOCK, P.E.

RA8000_Som Co\21441 T-712 RockIngham Br\06 CADD\32 Structures\TS and L\05-ROCKINGHAMSPREAD\F05.DGN
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**TABLE OF TOP OF DECK ELEVATIONS
AT 10TH POINTS ALONG CENTERLINE OF BEAM**

LOCATION	BEAM NUMBER		
	1	2	3
☉ BRG ABUT 1	2143.51	2143.47	2143.43
6.000	2143.21	2143.16	2143.12
12.000	2142.92	2142.87	2142.83
18.000	2142.65	2142.60	2142.55
24.000	2142.40	2142.34	2142.28
30.000	2142.16	2142.10	2142.04
36.000	2141.94	2141.87	2141.81
42.000	2141.74	2141.66	2141.59
48.000	2141.55	2141.47	2141.39
54.000	2141.37	2141.29	2141.21
☉ BRG ABUT 2	2141.21	2141.13	2141.05

DECK ELEVATIONS ARE GIVEN AT THE ☉ OF EACH BEAM.
LOCATIONS GIVEN ARE THE DISTANCE (FT) ALONG THE ☉ OF EACH BEAM
TO EACH 10TH POINT AS MEASURED FROM THE ☉ OF BEARING AT ABUTMENT 1.

**TABLE OF TOP OF BEAM ELEVATIONS
AT 10TH POINTS ALONG CENTERLINE OF BEAM**

LOCATION	BEAM NUMBER		
	1	2	3
☉ BRG ABUT 1	2142.45	2142.41	2142.38
6.000	2142.25	2142.21	2142.18
12.000	2142.05	2142.01	2141.97
18.000	2141.85	2141.80	2141.76
24.000	2141.64	2141.58	2141.54
30.000	2141.41	2141.35	2141.30
36.000	2141.18	2141.11	2141.06
42.000	2140.93	2140.86	2140.80
48.000	2140.68	2140.60	2140.54
54.000	2140.42	2140.34	2140.27
☉ BRG ABUT 2	2140.15	2140.07	2139.99

NOTE: THE TOP OF BEAM ELEVATIONS SHOWN IN THE TABLE ARE THE DESIGN
VALUES COMPUTED INCLUDING THE EFFECT OF THE DESIGN BEAM CAMBER.

**TABLE OF BOTTOM OF BEAM ELEVATIONS
AT 10TH POINTS ALONG CENTERLINE OF BEAM**

LOCATION	BEAM NUMBER		
	1	2	3
☉ BRG ABUT 1	2140.45	2140.41	2140.38
6.000	2140.25	2140.21	2140.18
12.000	2140.05	2140.01	2139.97
18.000	2139.85	2139.80	2139.76
24.000	2139.64	2139.58	2139.54
30.000	2139.41	2139.35	2139.30
36.000	2139.18	2139.11	2139.06
42.000	2138.93	2138.86	2138.80
48.000	2138.68	2138.60	2138.54
54.000	2138.42	2138.34	2138.27
☉ BRG ABUT 2	2138.15	2138.07	2137.99

NOTE: THE BOTTOM OF BEAM ELEVATIONS SHOWN IN THE TABLE
ARE THE DESIGN VALUES COMPUTED INCLUDING THE EFFECT OF THE
DESIGN BEAM CAMBER AND IS BASED SOLELY ON THE NOMINAL BEAM DEPTH
(DOES NOT INCLUDE ANY EFFECTS FROM DAPPING OR SOLE PLATES).

FOR PRESTRESSED CONCRETE BEAMS, AS PER DM-4, THESE VALUES SHOULD
NOT BE USED FOR CALCULATING THE VERTICAL CLEARANCE TO THE BOTTOM
OF THE BEAM. IN THAT CASE, A STRAIGHT LINE VARIATION BETWEEN THE
BOTTOM OF BEAM ELEVATION AT EACH BEARING SHOULD BE USED.

**TABLE OF DECK SLAB
THICKNESSES**

BEAM NO	SLAB THICKNESS	
	☉ BRG ABUT 1	☉ BRG ABUT 2
1	1' - 0 ³ / ₄ "	1' - 0 ³ / ₄ "
2	1' - 0 ³ / ₄ "	1' - 0 ³ / ₄ "
3	1' - 0 ⁵ / ₈ "	1' - 0 ⁵ / ₈ "

NOTE: LOCATION OF DECK SLAB THICKNESSES IS WHERE
THE ☉ OF BEAM INTERSECTS THE ☉ OF BEARING.
NOTE: DECK SLAB THICKNESS IS MEASURED FROM THE
TOP OF DECK TO THE TOP OF BEAM.

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

BMS STR ID: 55-7220-0712-0356 MPMS/ECMS PROJ: 72477 BRKEY: XXXXX

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

SOMERSET COUNTY
SR 7220 SEC 0712
WHISPERING PINES ROAD (T-712)
SR 7220 SECTION 0712 STA 1202+37.71
OVER DARK SHADE CREEK
1-SP COMP P/S CONC SPR BOX BM BRIDGE
DECK & BEAM ELEV AT 10TH POINTS



CORY R. HANCOCK, P.E.

SHEET 6 OF 6

L-609

DISTRICT	COUNTY	ROUTE	SECTION	SHEET
9-0	SOMERSET	7220	712	1 OF 10
SHADE TOWNSHIP				
REVISION NUMBER	REVISIONS	DATE	BY	APPROVED

SOMERSET COUNTY T-712

WHISPERING PINES ROAD STATION 1200+50 TO 205+60 (LIMITS OF WORK)

CROSS SECTIONS

MAINLINE

WHISPERING PINES ROAD STATION 1201+00 TO STATION 205+10

SHEETS 2 THRU 10

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THE EADS GROUP
450 ABERDEEN DRIVE
SOMERSET, PA 15501



PRELIMINARY

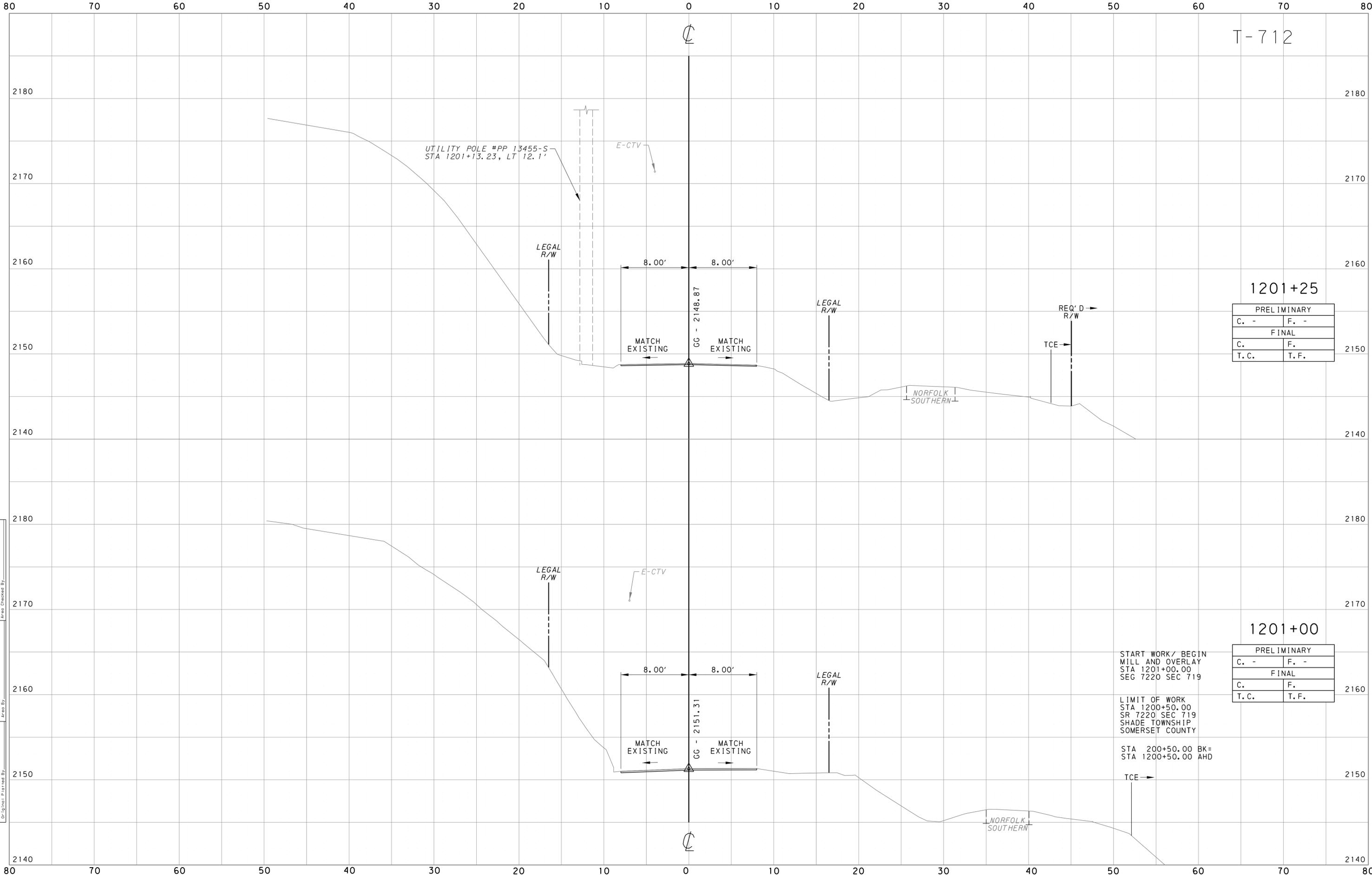
PROJECT MANAGER
DATE: 5/20/25

Dist.	County	Route	Sec.	Preim. Bk. No.	Final Bk. No.	Sheet No.
9-0	SOMERSET	7220	712	-	-	2 OF 10

5/20/2025

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Route No.	Finals Checked By
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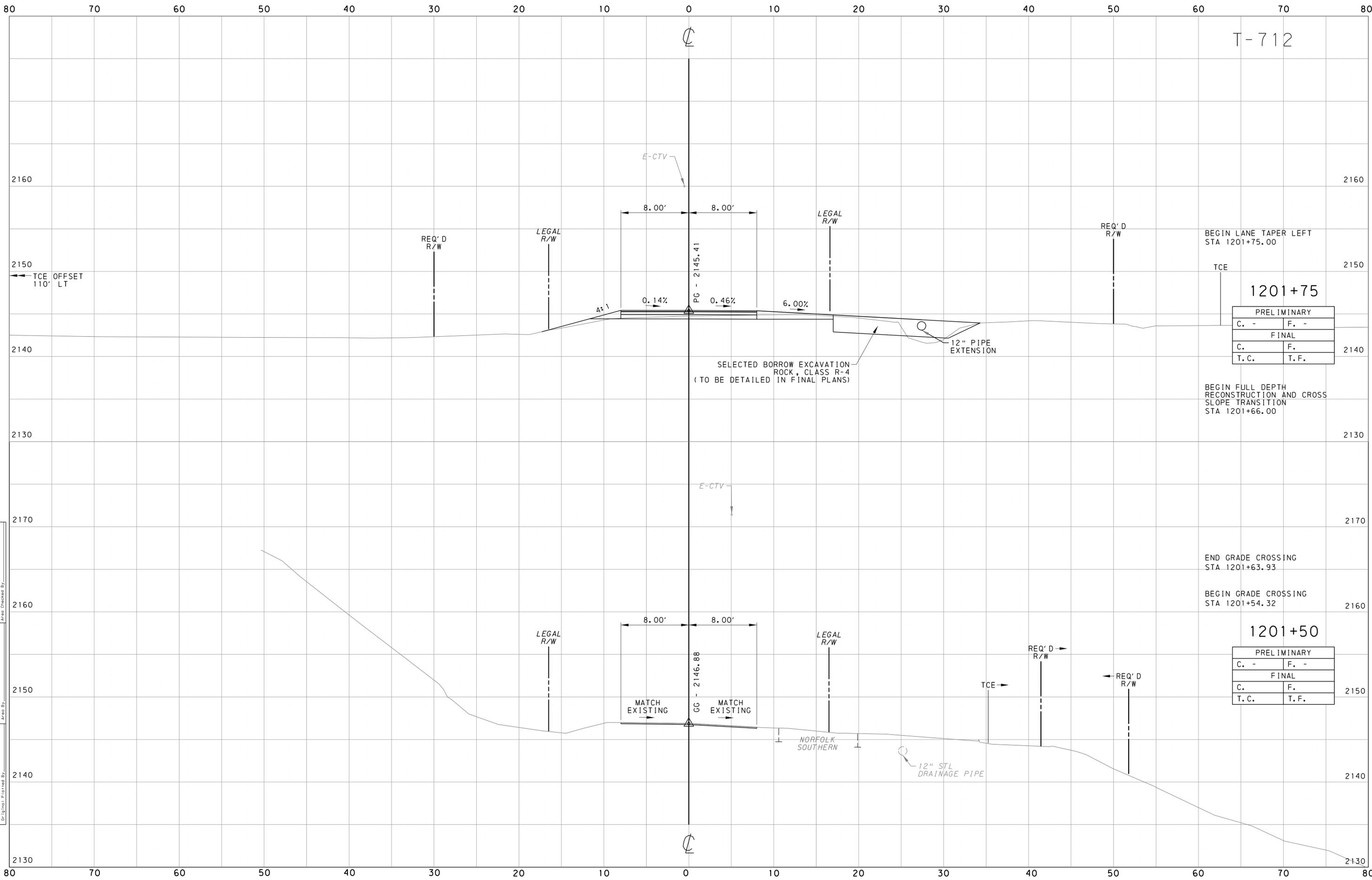


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Application No.	Original Plotted By
Route No.	Final Checked By
Original Plotted By	Area Checked By



T-712

1201+75

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

BEGIN LANE TAPER LEFT
STA 1201+75.00

BEGIN FULL DEPTH
RECONSTRUCTION AND CROSS
SLOPE TRANSITION
STA 1201+66.00

END GRADE CROSSING
STA 1201+63.93

BEGIN GRADE CROSSING
STA 1201+54.32

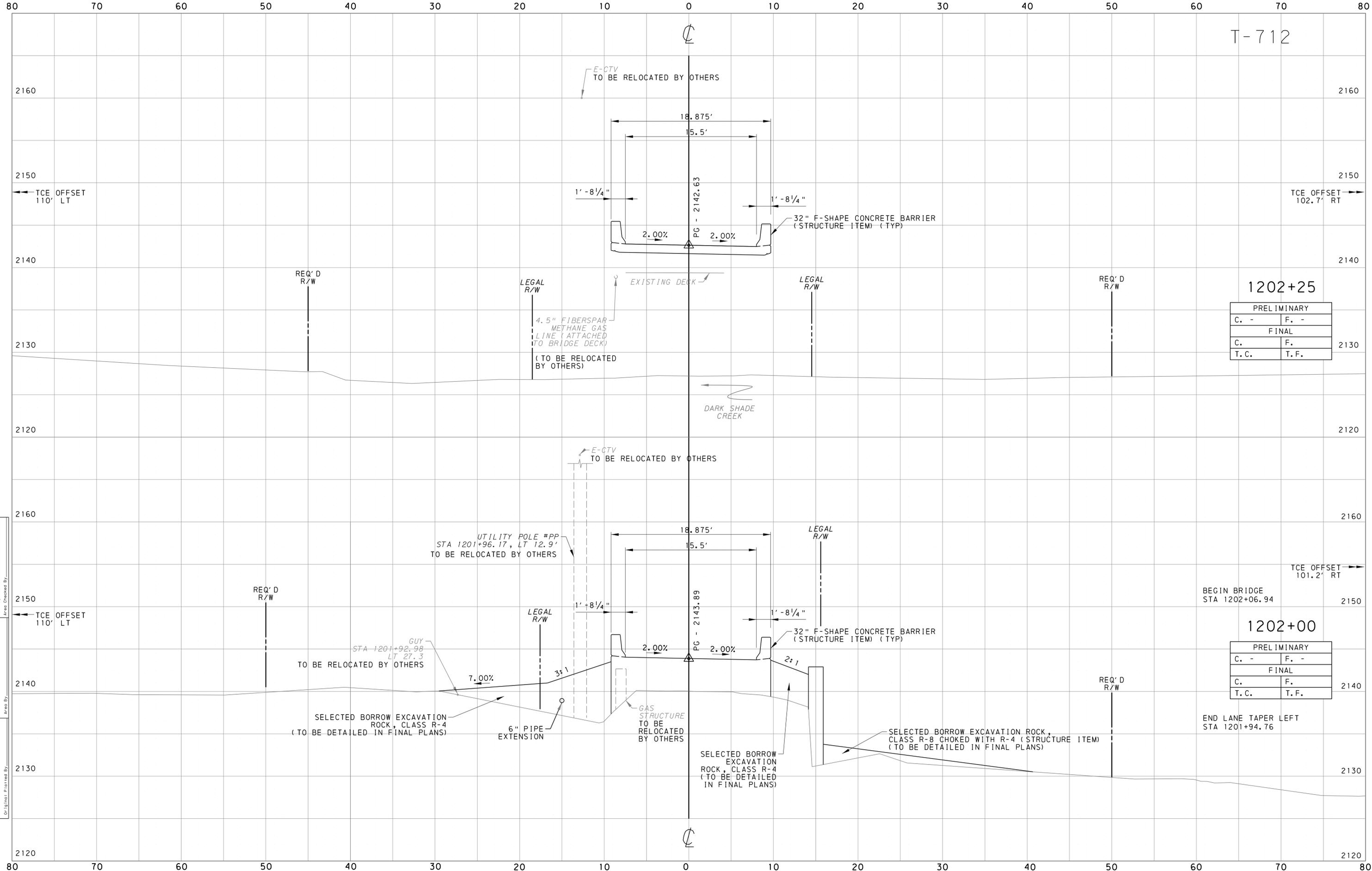
1201+50

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

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5/20/2025



T-712

1202+25

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

1202+00

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

5/20/2025

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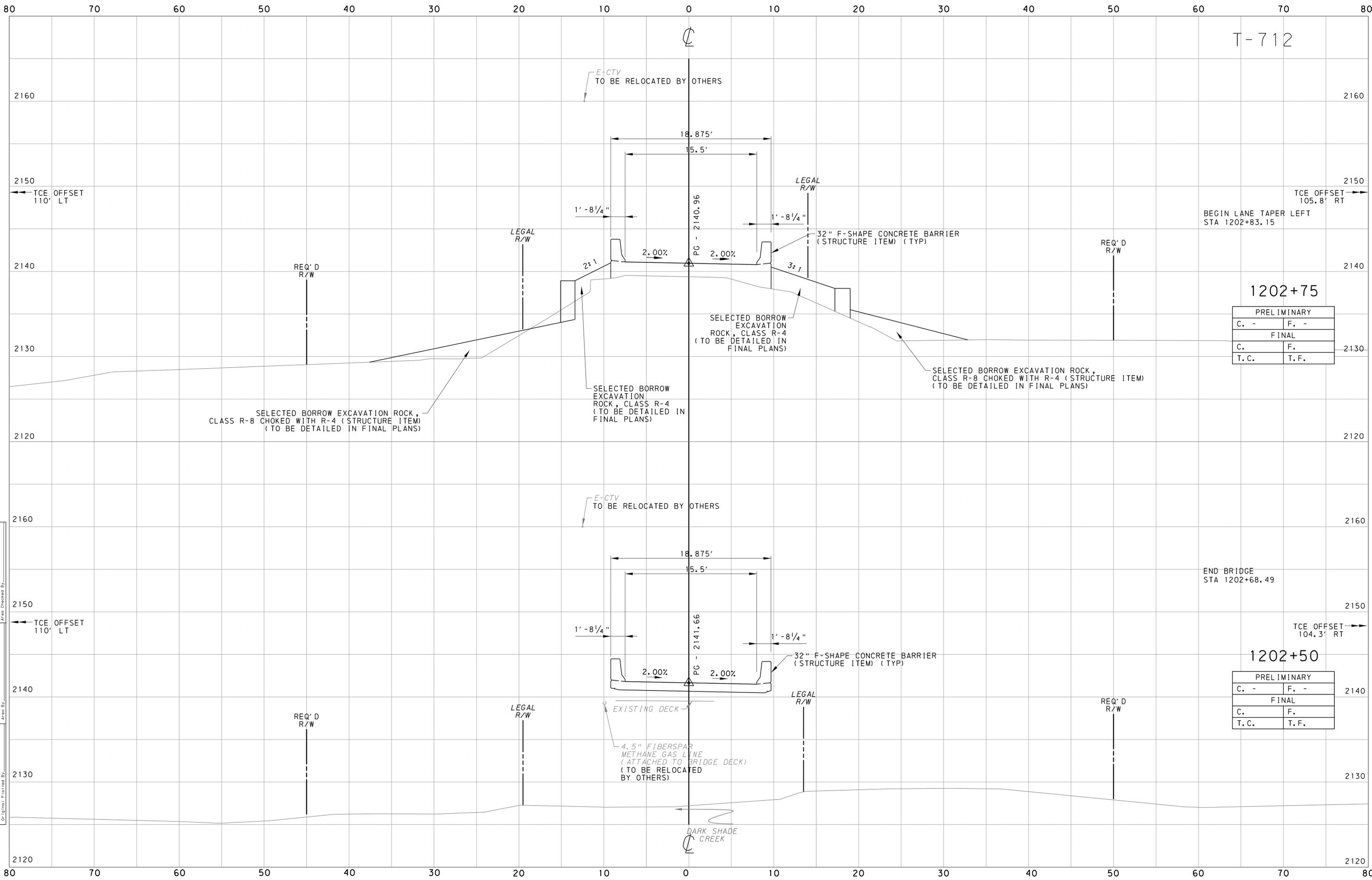
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Route No.	Final Checked By
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	Area Checked By

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5/20/2025

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Finals Plotted By: _____
Finals Checked By: _____
Area By: _____
Area Checked By: _____
Original Plotted By: _____
Original Checked By: _____
Temp Use By: _____
Temp Use By: _____



T-712

BEGIN LANE TAPER LEFT
STA 1202+83.15

1202+75

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

END BRIDGE
STA 1202+68.49

1202+50

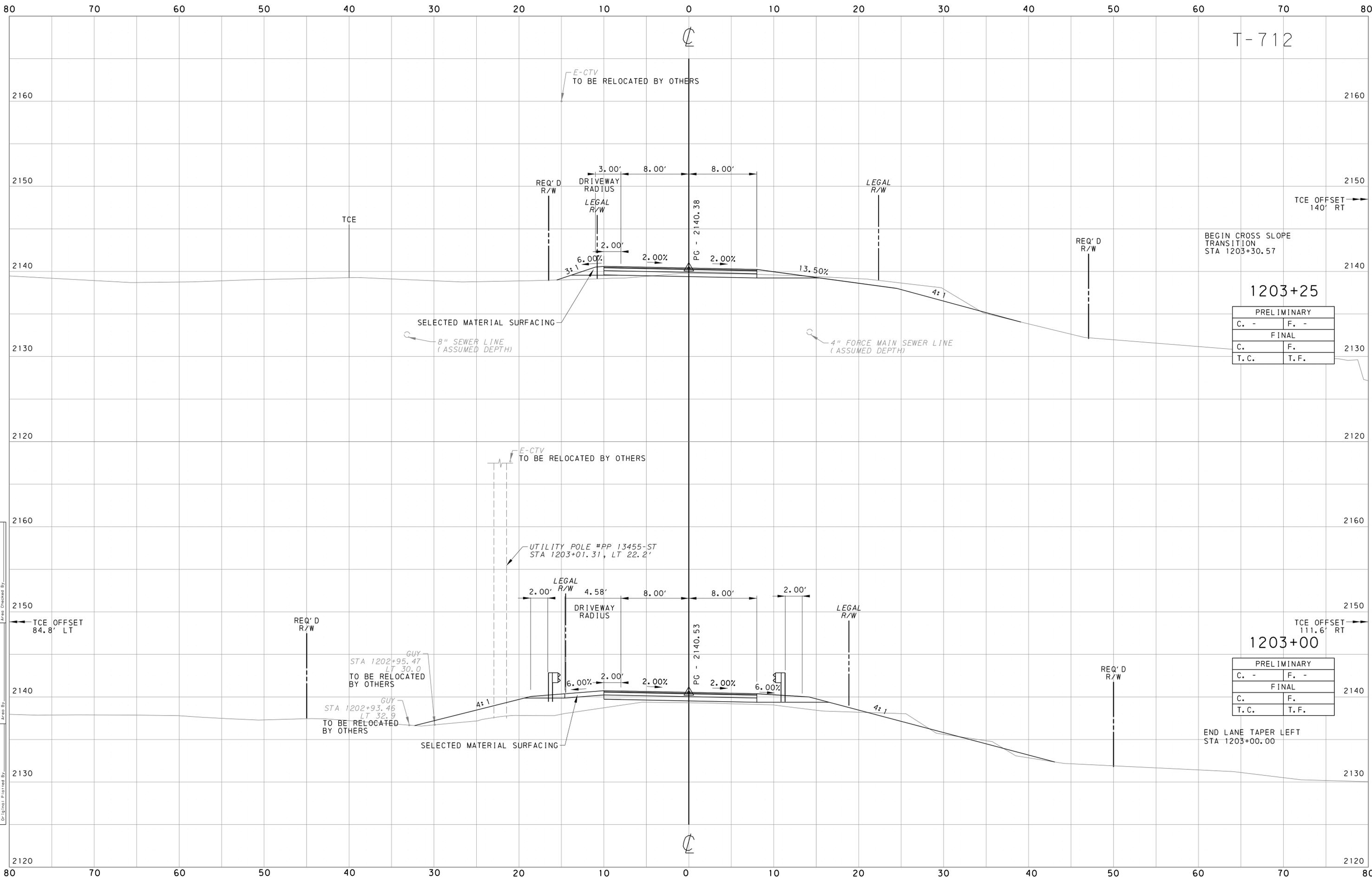
PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

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Final Plotted By: _____
 Final Checked By: _____
 Area By: _____
 Area Checked By: _____
 Original Plotted By: _____
 Original Checked By: _____
 Temp Use By: _____
 Temp Use Checked By: _____



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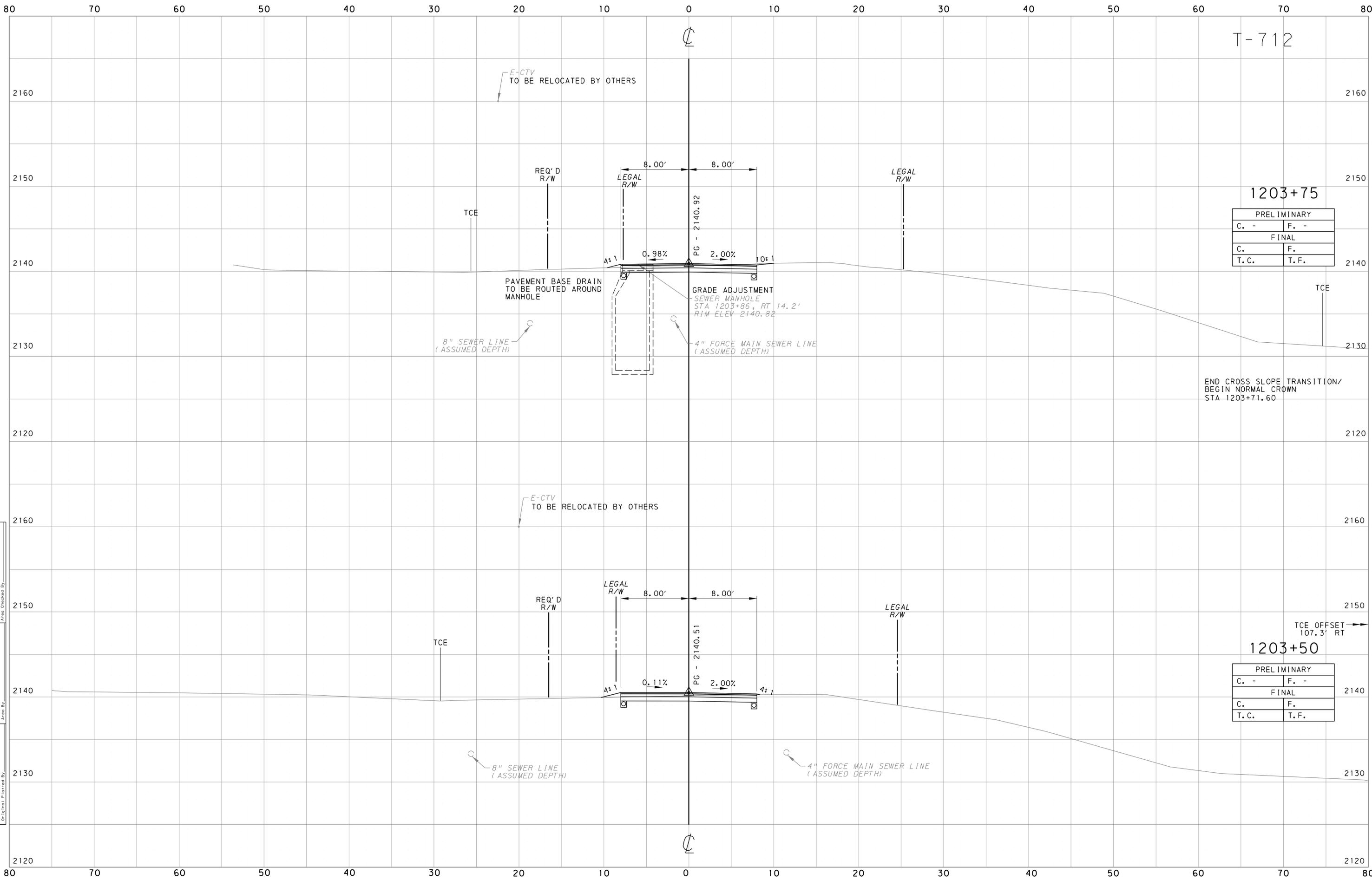
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS

Dist.	County	Route	Sec.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
9-0	SOMERSET	7220	712	-	-	7 OF 10

5/20/2025

OPERATOR: R:\8000_Som Co\21441_T-712_RockIngham Br\06_CADD\31_Transp\Plans A\iso\XS\C.XS_07.dgn

Application No.	Original Plotted By
Route No.	Final Checked By
Original Plotted By	Area Checked By



T-712

1203+75

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

END CROSS SLOPE TRANSITION/
BEGIN NORMAL CROWN
STA 1203+71.60

1203+50

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T. C.	T. F.

TCE OFFSET
107.3' RT

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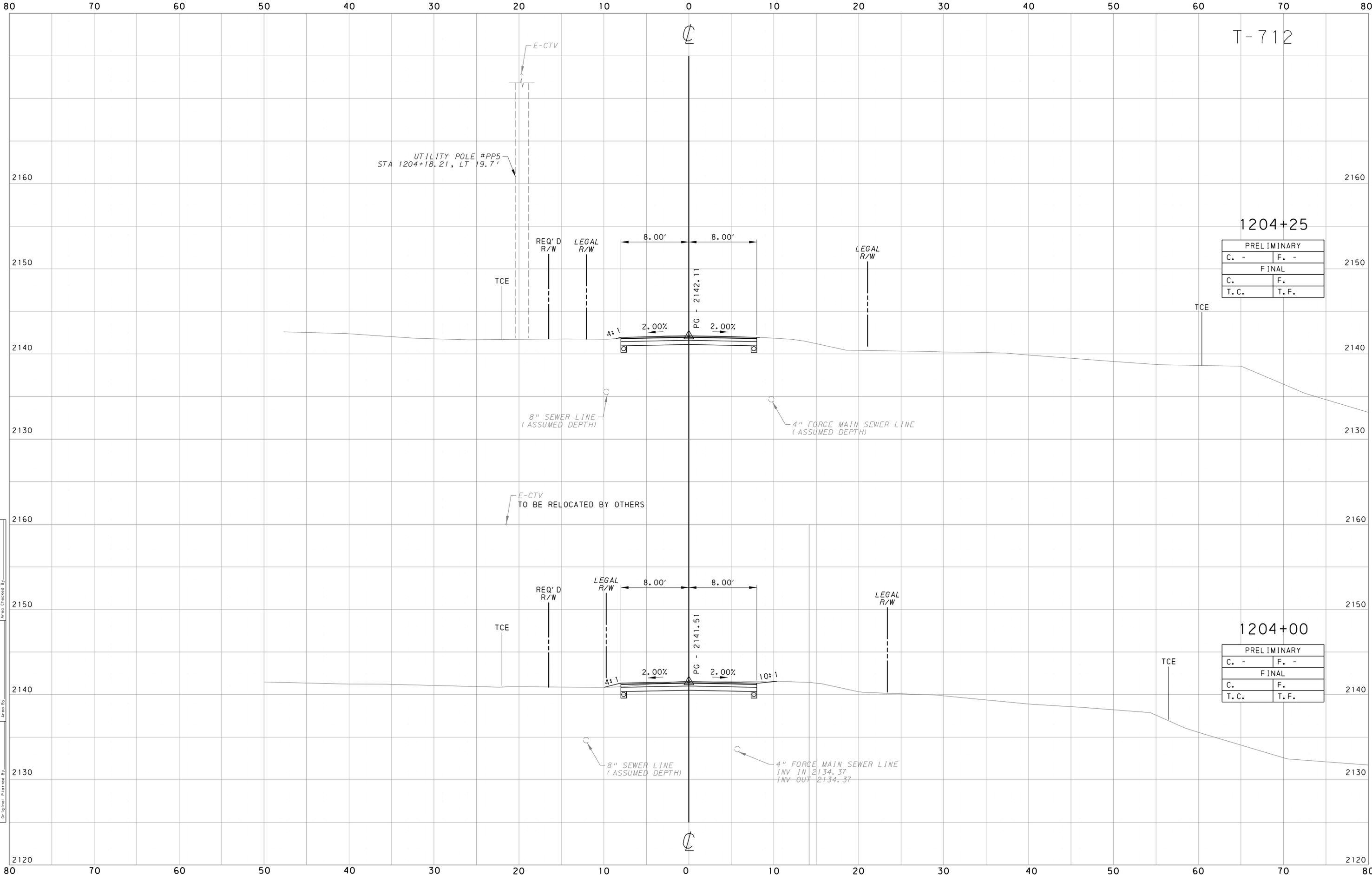
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS

Dist.	County	Route	Sec.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
9-0	SOMERSET	7220	712	-	-	8 OF 10

5/20/2025

OPERATOR: R:\8000_Som Co\21441 T-712 Rockingham Br\06 CADD\31 Transp\Plans A\iso\XS\C.XS_08.dgn

Application No. _____
Route No. _____
Original Plotted By: _____
Final Checked By: _____
Area Checked By: _____



T-712

1204+25

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

1204+00

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

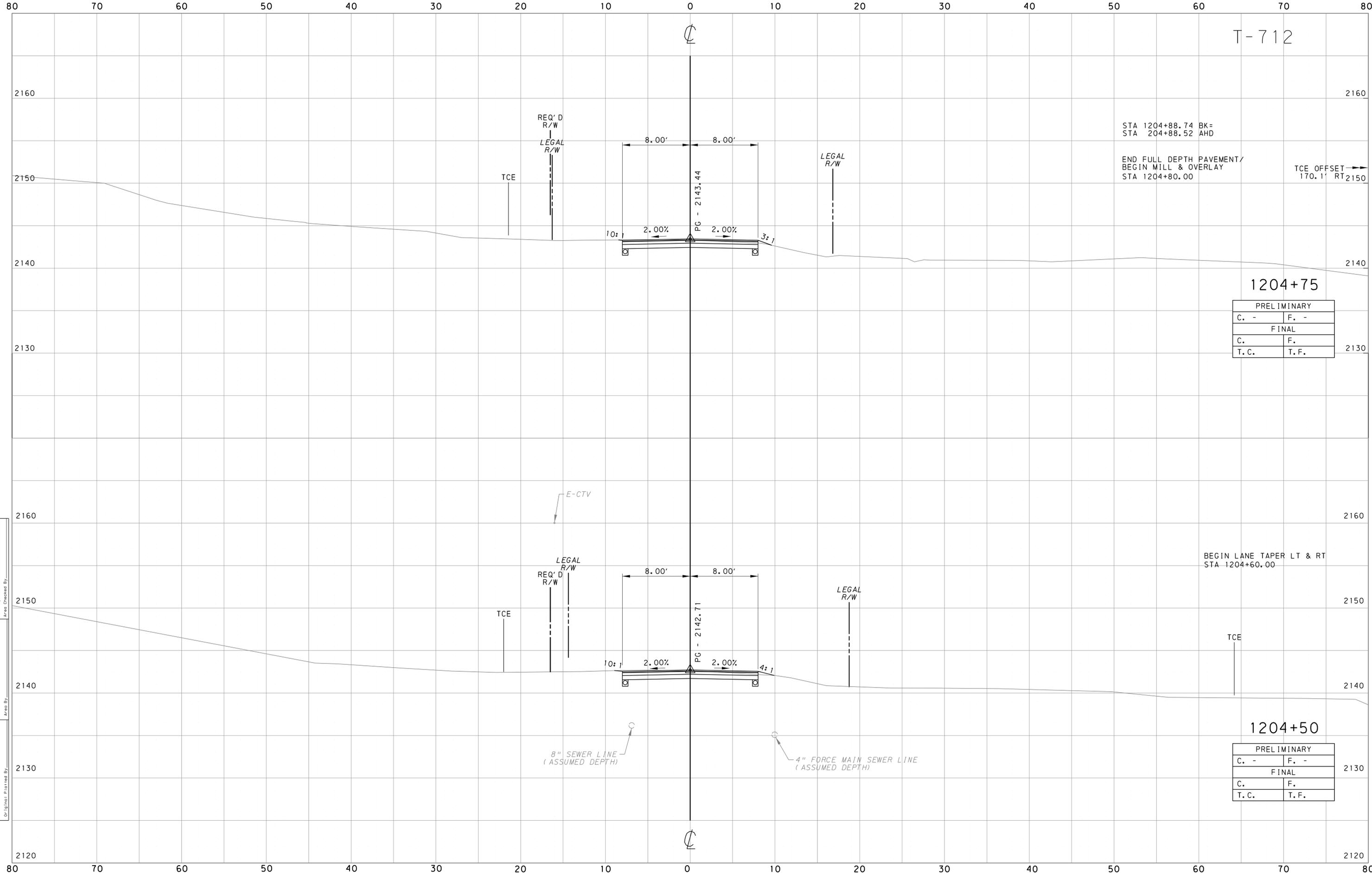
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Dist.	County	Route	Sec.	Preim. Bk. No.	Final Bk. No.	Sheet No.
9-0	SOMERSET	7220	712	-	-	9 OF 10

5/20/2025

OPERATOR: FILE NAME: R:\8000_Som Co\21441 T-712 Rock Ingham Br\06 CADD\31 Transp\Plans A\iso\XS\C.XS_09.dgn

Application No.	Finals Plotted By
Route No.	Finals Checked By
Original Plotted By	Area By
	Area Checked By



T-712

STA 1204+88.74 BK=
STA 204+88.52 AHD

END FULL DEPTH PAVEMENT/
BEGIN MILL & OVERLAY
STA 1204+80.00

TCE OFFSET
170.11 RT

1204+75

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

BEGIN LANE TAPER LT & RT
STA 1204+60.00

TCE

1204+50

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

8" SEWER LINE
(ASSUMED DEPTH)

4" FORCE MAIN SEWER LINE
(ASSUMED DEPTH)

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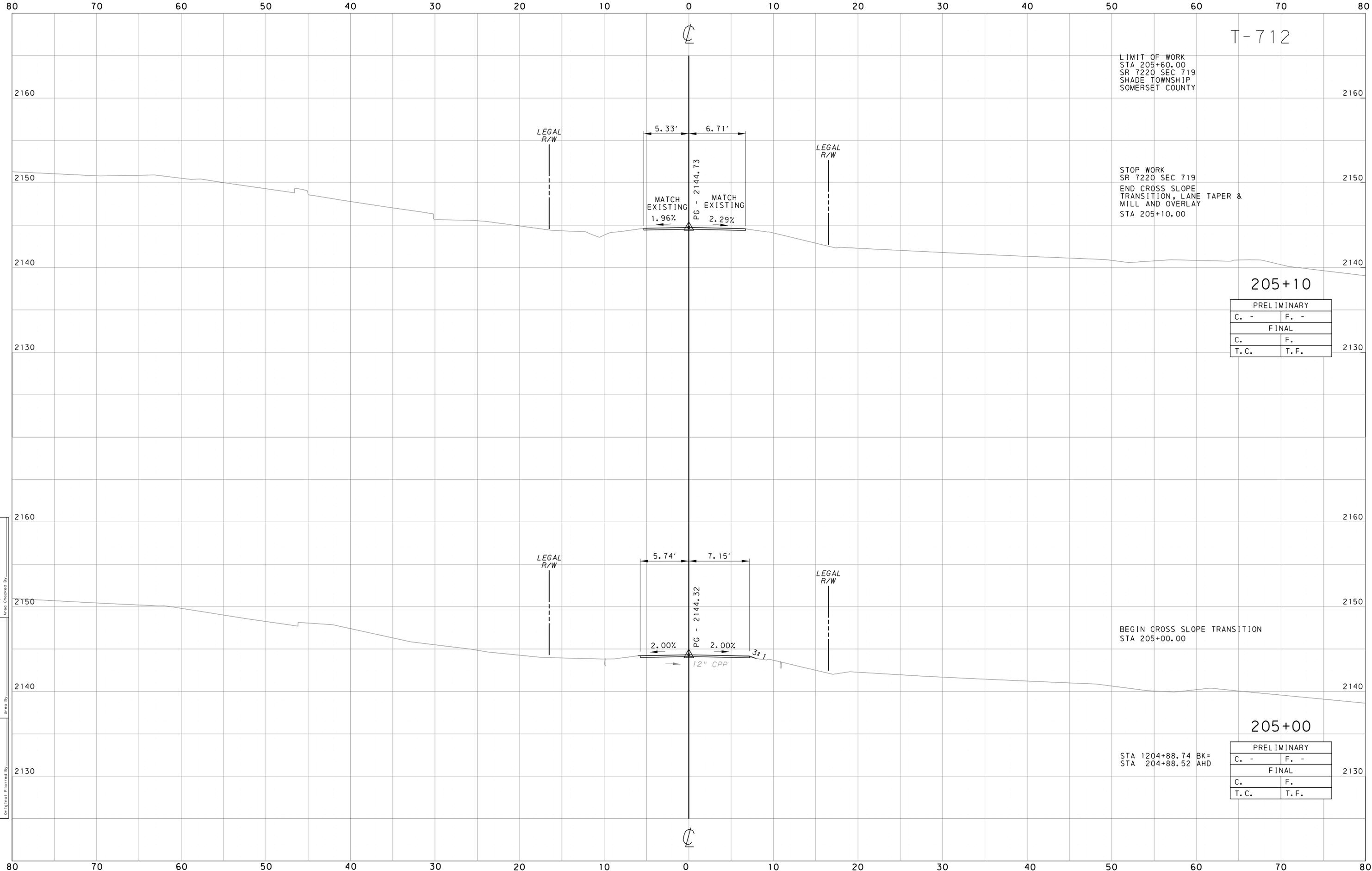
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS

Dist.	County	Route	Sec.	Prelim. Bk. No.	Final Bk. No.	Sheet No.
9-0	SOMERSET	7220	712	-	-	10 OF 10

5/20/2025

OPERATOR: R:\8000_Som Co\21441 T-712 Rockingham Br\06 CADD\31 Transp\Plans A\iso\XS\C.XS_10.dgn
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Application No. _____
Route No. _____
Original Plotted By _____
Final Checked By _____
Area By _____
Original Plotted By _____
Final Checked By _____
Area By _____



LIMIT OF WORK
STA 205+60.00
SR 7220 SEC 719
SHADE TOWNSHIP
SOMERSET COUNTY

STOP WORK
SR 7220 SEC 719
END CROSS SLOPE
TRANSITION, LANE TAPER &
MILL AND OVERLAY
STA 205+10.00

205+10

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

BEGIN CROSS SLOPE TRANSITION
STA 205+00.00

STA 1204+88.74 BK=
STA 204+88.52 AHD

205+00

PRELIMINARY	
C. -	F. -
FINAL	
C.	F.
T.C.	T.F.

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