



July 5, 2023

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17105-3265

Re: Docket Number: A-2022-3036924
Application to the Department of Transportation of the Commonwealth of Pennsylvania for approval to alter fifteen public at-grade crossings by the installation of new active traffic control devices and new crossing surfaces where various state and local routes cross the track(s) of SEDA-COG Joint Rail Authority, operated by Shamokin Valley Railroad in Coal, Ralpho, Shamokin, and Upper Augusta Townships, Snyderstown Borough, and the Cities of Sunbury and Shamokin, Northumberland County **all in accordance with the Federal Grade Crossing Program** and the allocation of costs incident thereto.

Dear Rosemary Chiavetta:

Enclosed for filing, please find the Application of the Department of Transportation.

A copy of this application and exhibits has been served upon the parties in the Certificate of Service to the Application.

Sincerely,

A handwritten signature in black ink that reads "Gerald C. Wertz". The signature is fluid and cursive, with a long horizontal stroke extending to the right from the end of the name.

Gerald C. Wertz, P.E.
Assistant District Executive - Design
Engineering District 3-0

Enclosure

cc: Parties of Record
Mark Chappell, Chief, Right-of-Way and Utilities Section, 7th Floor, CKB
Karen Cummings, Senior Counsel in Charge, Office of Chief Counsel, 9th Floor, CKB
William Sinnick, P.E., Rail Safety Engineering Section PUB, 3rd Floor, CKB

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to alter fifteen public at-grade crossings by the installation of new active traffic control devices and new crossing surfaces where various state and local routes cross the track(s) of SEDA COG Joint Rail Authority, operated by Shamokin Valley Railroad in Coal, Ralpho, Shamokin and Upper Augusta Townships, Snyderstown Borough and the Cities of Sunbury and Shamokin, Northumberland County *all in accordance with the Federal Grade Crossing Program* and the allocation of costs incident thereto.

Application
Docket
No. A-2022-3036924_____

Electronically Filed

CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below by electronic mail pursuant to the Emergency Order at Docket Number A-2022-3036924:

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 52 Pa. Code § 1.54, by first class mail, postage prepaid:

Kyle Postupack, Property Manager
SEDA COG Joint Rail Authority.
201 Furnace Road
Lewisburg, PA 17837

George Fury, Property Representative
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Jim Boyer, Signal Manager
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Zach Mahaffey, Track Superintendent
Shamokin Valley Railroad
356 Priestly Avenue
Northumberland, PA 17857

Nathan Savige, Chief Clerk
Northumberland County Commissioners
399 Stadium Drive

Sunbury, PA 17801

Deb Olson, Township Secretary
Ralpho Township
206 South Market Street
Elysburg, PA 17824

Robert Slaby, Jr., Manager
Coal Township
805 West Lynn Street
Coal Township, PA 17866

Robert Slaby, City Clerk
City of Shamokin
47 East Lincoln Street
Shamokin, PA 17872

Jolinn Barner, City Clerk
City of Sunbury
225 Market Street
Sunbury, PA 17801

Darlene Kern, Secretary
Upper Augusta Township
2087 Snyderstown Road
Sunbury, PA 17801

Amy Wolf, Secretary
Snyderstown Borough
36 South Main Street
Sunbury, PA 17801

Colin Klebon
UGI Utilities Inc.
1 PEI Center
Wilkes Barre, PA 18711

Robert Jaworski, Engineer
Verizon of Pennsylvania
11 Ridge Road
Bloomsburg, PA 17815

John Klinger, Engineer
AQUA Pennsylvania Inc.
204 East Sunbury Street
Shamokin, PA 17872

Charlotte Krupa, PennDOT Liasion
PPL Electric Utility Company
Two North Ninth Street
GENN3
Allentown, PA 18101

Don Phillips, Network Specialist
Service Electric Cable
3662 Point Township Drive
Northumberland, PA 17857

Betsy Medon
Ralpho Township Municipal Authority
206 S. Market Street, Suite 2
Elysburg, PA 17824

Scott Debo
Sunbury Municipal Authority
462 South 4th Street
Sunbury, PA 17801

Paul Petrovich, Manager
Shamokin Coal Township Joint Sewer Authority
114 Bridge Street
Shamokin, PA 17872

John Bruce, OSP Manager
Spread Networks
800 Woodlands Parkway, Suite 102
Ridgeland, MS 39157

Dated this 3rd Day of July 2023

Steven Betts

Steven Betts
715 Jordan Avenue
Montoursville PA 17754
570-368-4238
sbetts@pa.gov

SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD BOTTLE DRIVE GRADE CROSSING REPLACEMENT PROJECT

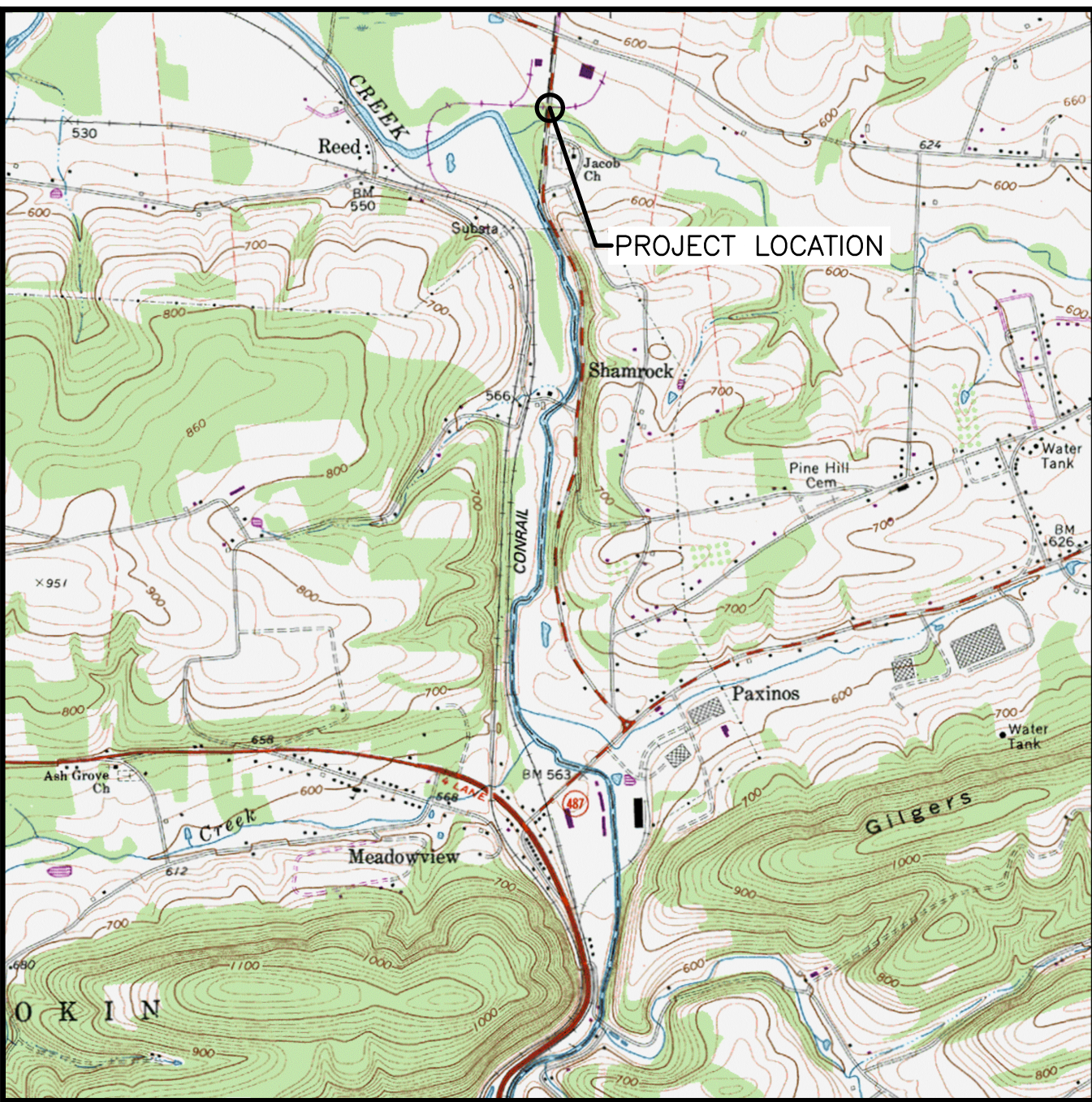
RALPHO TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

INDEX OF SHEETS	
Sheet Number	Sheet Title
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TC1	DETOUR PLAN
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ES1	EROSION AND SEDIMENT POLLUTION CONTROL NOTES
ES2	EROSION AND SEDIMENT POLLUTION CONTROL NOTES
ES3	EROSION AND SEDIMENT POLLUTION CONTROL DETAILS
ES4	EROSION AND SEDIMENT POLLUTION CONTROL PLAN



SHAMOKIN, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP
SCALE: 1" = 2000'



1731 N. Juniata Street
Holidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Revisions:

No.	Date	Description

Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.199
DRAWN BY:	JES
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

T1

GENERAL CONSTRUCTION NOTES:

SLANT LETTERING DENOTES EXISTING FEATURES OR FACILITIES.

VERTICAL LETTERING DENOTES PROPOSED FEATURES OR FACILITIES.

VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD88 DATUM.

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON PENNSYLVANIA STATE COORDINATE SYSTEM, NORTH ZONE.

ALL ROADWAY CURVE DATA IS BASED ON ARC DEFINITION UNLESS OTHERWISE INDICATED.

ALL TRACK CURVE DATA IS BASED ON CHORD DEFINITION UNLESS OTHERWISE INDICATED.

CONTRACTOR TO PERFORM CONSTRUCTION STAKEOUT AND CONFIRM ALL ELEVATIONS AND SLOPES PRIOR TO CONSTRUCTION. ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.

SIGNALS AND ELECTRICAL VAULT ARE TO BE REPLACED BY OTHERS. THE PROPOSED LOCATION OF SIGNALS AND ELECTRICAL VAULT SHOWN ON THIS PLAN ARE APPROXIMATE.

THE CONTOURS SHOWN HEREON ARE BASED ON FIELD LOCATED SURVEY POINTS. CONTOURS ARE MERELY AN INTERPOLATION OF THE FIELD SURVEY POINTS. IF ANY DISCREPANCY BETWEEN CONTOUR DATA AND FIELD SURVEY POINTS IS ENCOUNTERED, THE SURVEY POINTS SHALL GOVERN. THE CONTOURS SHALL BE VERIFIED IN RELATION TO THE SURVEY POINTS PROVIDED HERewith BY THE END USER OF THIS DIGITAL FILE PRIOR TO PREPARING A DIGITAL ELEVATION MODEL IN ANY SOFTWARE PACKAGE. IF DISCREPANCY IS FOUND, THE ENGINEER SHALL BE NOTIFIED.

PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FOR INFORMATION ONLY AND DO NOT CONSTITUTE ACTUAL FIELD SURVEYS.

ALL CODES AND STANDARDS REFERENCED IN THESE GENERAL NOTES, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, AND ALL FEDERAL, STATE AND LOCAL REGULATIONS APPLY TO THE DESIGN, CONSTRUCTION, DEMOLITION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS OF THE CODES AND STANDARDS UNLESS NOTED OTHERWISE.

JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SUB-BALLAST SHALL CONSIST OF AASHTO NO. 2A COURSE AGGREGATE, PLACED IN LIFTS NOT TO EXCEED 3 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY WEIGHT DENSITY AS DEFINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557).

BALLAST SHALL CONFORM TO GRADATION SIZE 3 AS RECOMMENDED IN AREMA, CHAPTER 1, PART 2, TABLE NO. 2, RECOMMENDED BALLAST GRADATIONS.

ALL SURFACES SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT PA ONE CALL SYSTEM, INC. PHONE: 1-800-242-1776 PA ONE CALL SERIAL NUMBER: 20230682729 FOR RALPHO TOWNSHIP, NORTHUMBERLAND COUNTY

THE CONTRACTOR SHALL EXERCISE CAUTION AND EMPLOY CAREFUL EXCAVATION METHODS DURING INSTALLATION OF THE FACILITIES TO AVOID DAMAGE TO OR CONFLICT WITH EXISTING UTILITIES. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AS NECESSARY AND/OR REQUIRED BY THE ENGINEER TO ASCERTAIN THE HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION IN AFFECTED AREAS AND MAKE THE APPROPRIATE ADJUSTMENTS IN THE FIELD IF CONFLICTS OCCUR.

DESIGN IS BASED ON AVAILABLE INFORMATION PERTAINING TO UNDERGROUND UTILITIES AND FIELD LOCATION WHERE POSSIBLE. SHOULD THE CONTRACTOR ENCOUNTER A SITUATION WHERE IT IS BELIEVED THAT AN EXISTING UNDERGROUND UTILITY WILL NEED TO BE RELOCATED BY THE CONTRACTOR, HE SHALL NOTIFY THE ENGINEER AND A DECISION WILL BE MADE WITHIN TWO (2) WORKING DAYS.

DESIGNERS AND CONTRACTORS UTILIZING THESE DRAWINGS AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF LOCAL AND STATE REGULATIONS FOR UNDERGROUND UTILITY LINE PROTECTION.

SCOPE OF WORK:

REPLACE THE EXISTING RAILROAD GRADE CROSSING, RE-GRADE THE APPROACH TRACK, REPLACE PAVEMENT ON BOTH APPROACHES, AND PERFORM DRAINAGE IMPROVEMENTS AS SHOWN ON THESE PLANS. SIGNAL MASTS AND ELECTRICAL HOUSE ARE TO BE REPLACED BY OTHERS.

RAILROAD TRAFFIC:

CONSTRUCTION OF THE NEW GRADE CROSSING AND APPROACH TRACK WORK WILL TAKE PLACE DURING A SINGLE FOUR DAY TRACK OUTAGE. THE OUTAGE WILL BEGIN AT 8 AM ON A THURSDAY AND END AT 8 AM ON THE FOLLOWING MONDAY. DURING THIS TIME, THE RAIL WILL BE OUT OF SERVICE AND THEREFORE, THERE IS NO ANTICIPATED RAIL TRAFFIC DURING THESE OPERATIONS. PAVING ACTIVITIES ON BOTH APPROACHES WILL BE CONDUCTED AROUND SCHEDULED TRAIN TIMES AND ANTICIPATED TRAIN TRAFFIC IS 2 TRAINS PER DAY, MONDAY THROUGH FRIDAY, UNDER A 10 MPH SPEED LIMIT.

FULL TIME FLAGGING OPERATIONS OR INSTALLATION OF DERAILS WILL BE REQUIRED TO PROVIDE ADEQUATE PROTECTION TO ALL WORKERS DURING CONSTRUCTION. FLAGGING AND INSTALLATION/REMOVAL OF DERAILS WILL BE PROVIDED BY SHAMOKIN VALLEY RAILROAD AT NO COST TO THE CONTRACTOR. (THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING. RAILROAD FLAGGING AND INSTALLATION/REMOVAL OF DERAILS.)

SPECIFICATIONS:

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, PENNDOT PUBLICATION 408/2020 INCLUDING REVISION NO. 6, AND AREMA MANUAL FOR RAILWAY ENGINEERING, 2018.

DESIGN OF TIMBER COMPONENTS IS IN ACCORDANCE WITH AREMA CHAPTER 7, TIMBER STRUCTURES.

GENERAL:

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

METHODS, PROCEDURES AND THE SEQUENCES (OTHER THAN THAT NOTED ON THE DRAWINGS) OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR'S IMPROPER INSTALLATION OF TRACK ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. IF THERE IS A DISCREPANCY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING THE WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION.

SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURES SUPPLIED IN THE DESIGN DRAWINGS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.

REPRODUCTION OF STRUCTURAL CONTRACT PLANS FOR SUBMITTALS AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BE ELECTRONIC SUBMITTALS IN PDF FORMAT.

WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED AT NO ADDITIONAL COST.

SUMMARY OF PROJECT COORDINATES

BASED ON THE STATE PLANE COORDINATE SYSTEM (PA NORTH ZONE - NAD83)

Table with 6 columns: RTE, STATION, POINT, COORDINATES (NORTHING, EASTING), BEARING. It details coordinates for BOTTLE DRIVE CONSTRUCTION and SVRR TRACK.



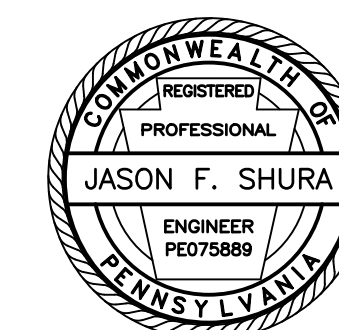
PUBLIC UTILITY ACT 38 COMPLIANCE AREA COVERED BY ONE CALL

SERIAL NUMBER: 20230682729

Table with 2 columns: USER and STATEMENT. Lists various utility providers like Ralpho Township, Municipal Authority of Ralpho Township, AT&T, PPL Electric Utilities Corporation, Aqua Pennsylvania Inc, Service Electric Cablevision, UGI Utilities Inc, and their respective statements regarding the project.



1731 N. Juniata Street Hollidaysburg, PA 16648 Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner: SEDA COG JOINT RAIL AUTHORITY 201 FURNACE ROAD LEWISBURG, PA 17837

Project Name: SHAMOKIN VALLEY RAILROAD BOTTLE DRIVE GRADE CROSSING REPLACEMENT PROJECT

2023-02

RALPHO TOWNSHIP NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

Table with 3 columns: No., Date, Description. Currently empty revision table.

Sheet Title:

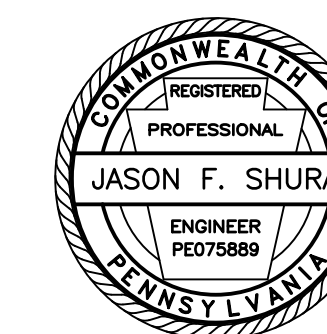
GENERAL NOTES

Table with 2 columns: FIELD, VALUE. Contains project details like PROJECT NO. 19-0001.199, DRAWN BY: JES, DESIGNED BY: JES, CHECKED BY: JFS, SCALE: AS SHOWN.

Drawing:

G1

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SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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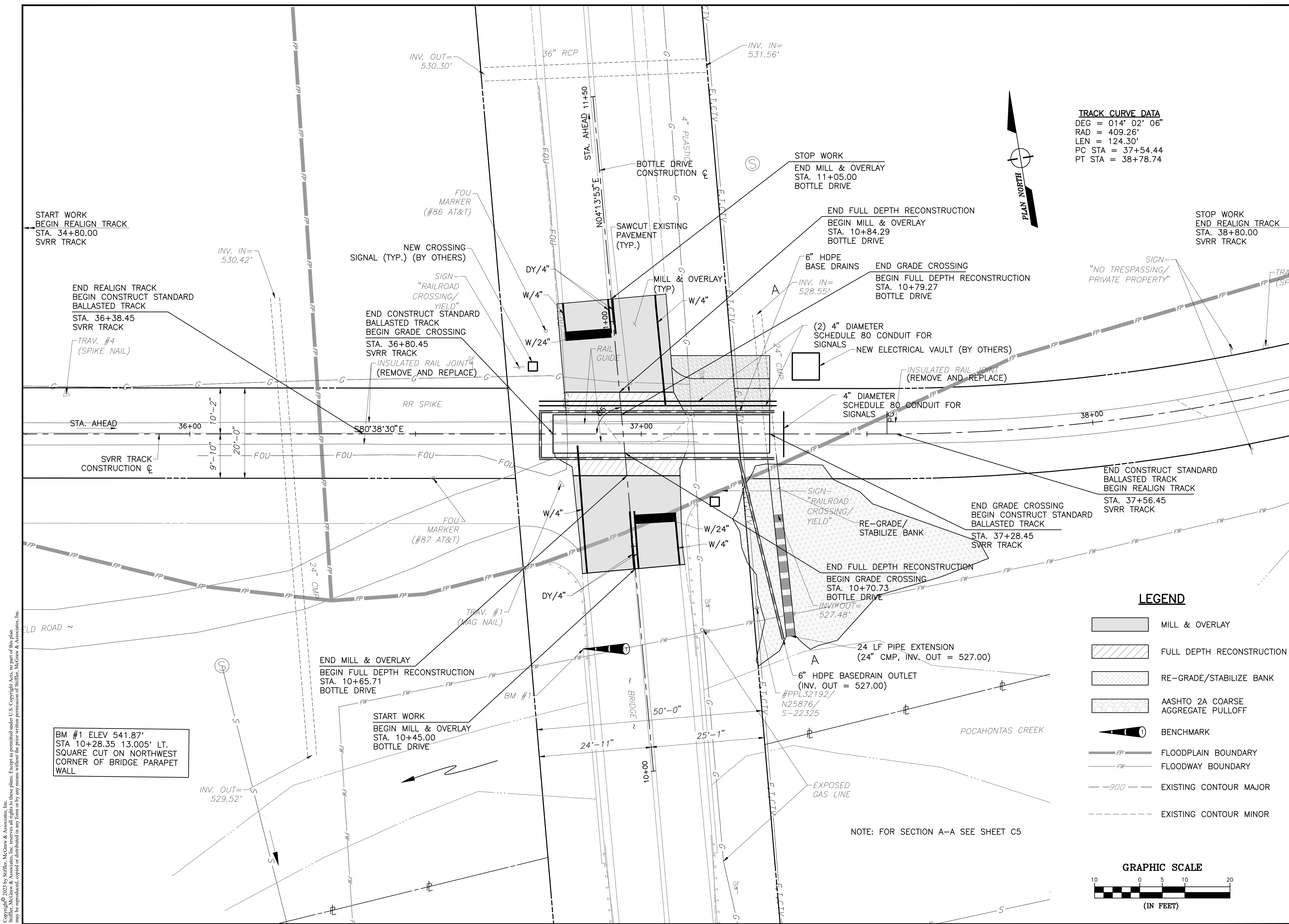
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SITE PLAN

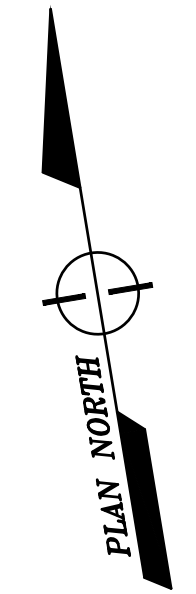
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DRAWN BY:	JES
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

C1

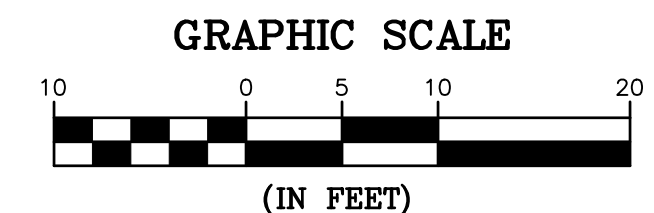


TRACK CURVE DATA
 DEG = 014° 02' 06"
 RAD = 409.26'
 LEN = 124.30'
 PC STA = 37+54.44
 PT STA = 38+78.74



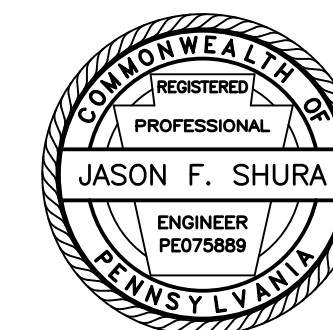
LEGEND

- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- RE-GRADE/STABILIZE BANK
- AASHTO 2A COARSE AGGREGATE PULLOFF
- BENCHMARK
- FLOODPLAIN BOUNDARY
- FLOODWAY BOUNDARY
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR



NOTE: FOR SECTION A-A SEE SHEET C5

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AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
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2023-02
RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

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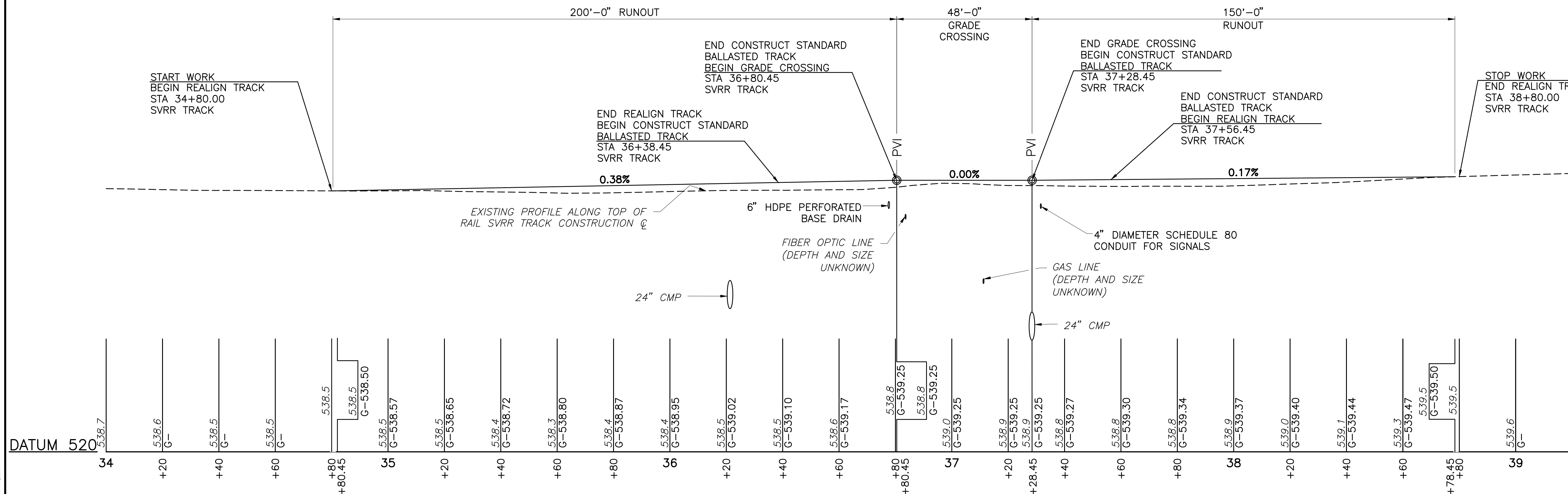
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TRACK PROFILE

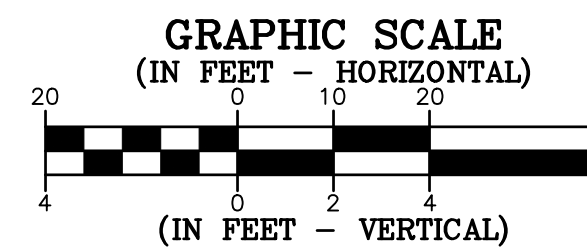
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DESIGNED BY:	JES
CHECKED BY:	JFS
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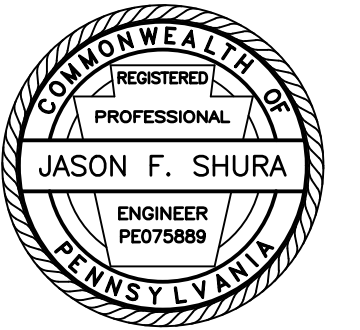
Drawing:

C2



PROFILE - SVRR TRACK





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Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
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BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

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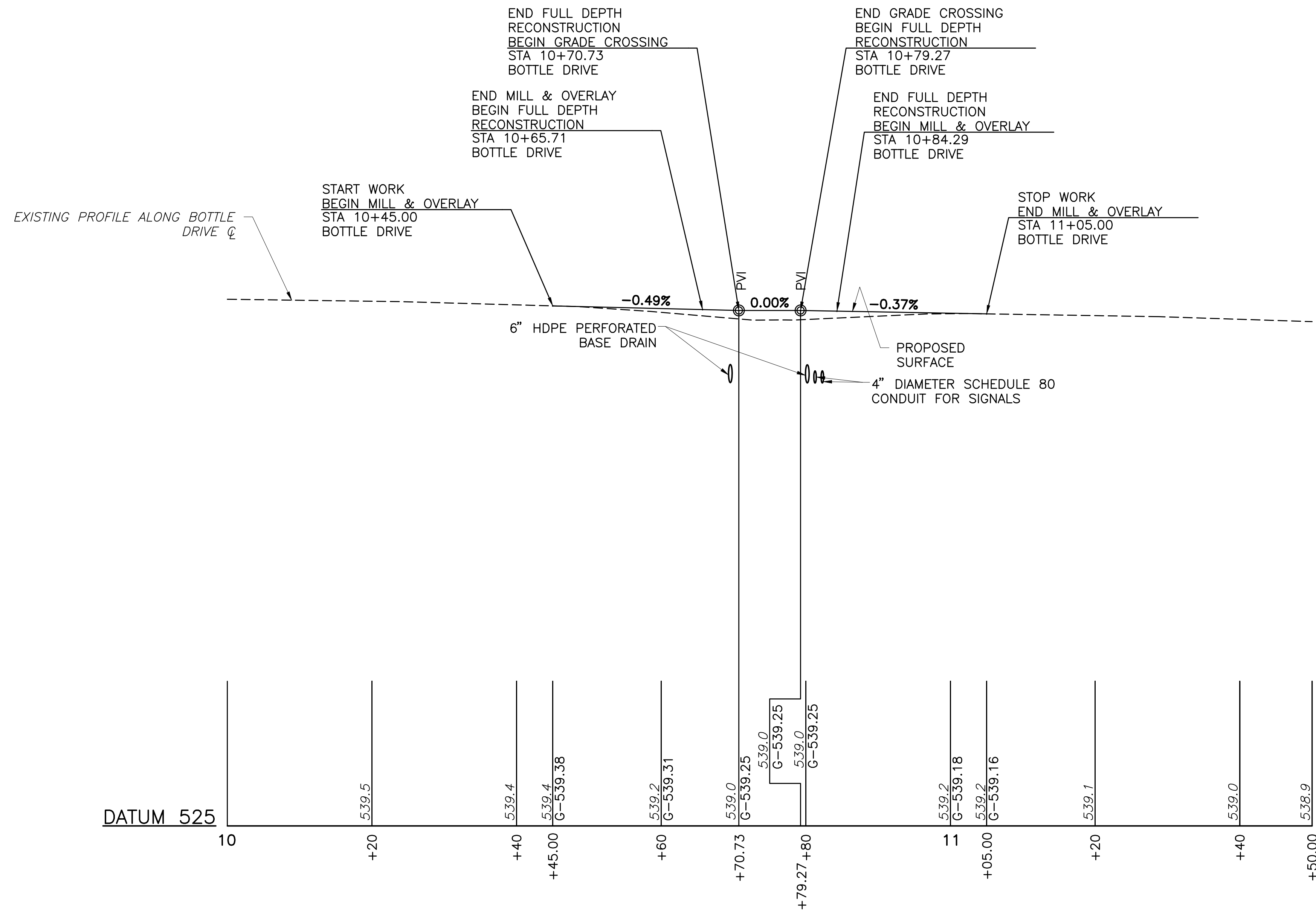
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ROAD PROFILE

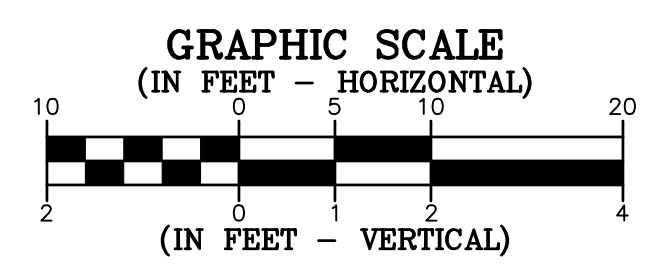
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CHECKED BY:	JFS
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Drawing:

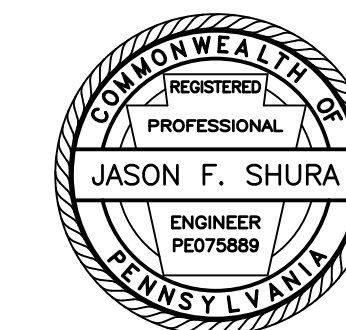
C3



PROFILE - BOTTLE DRIVE



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AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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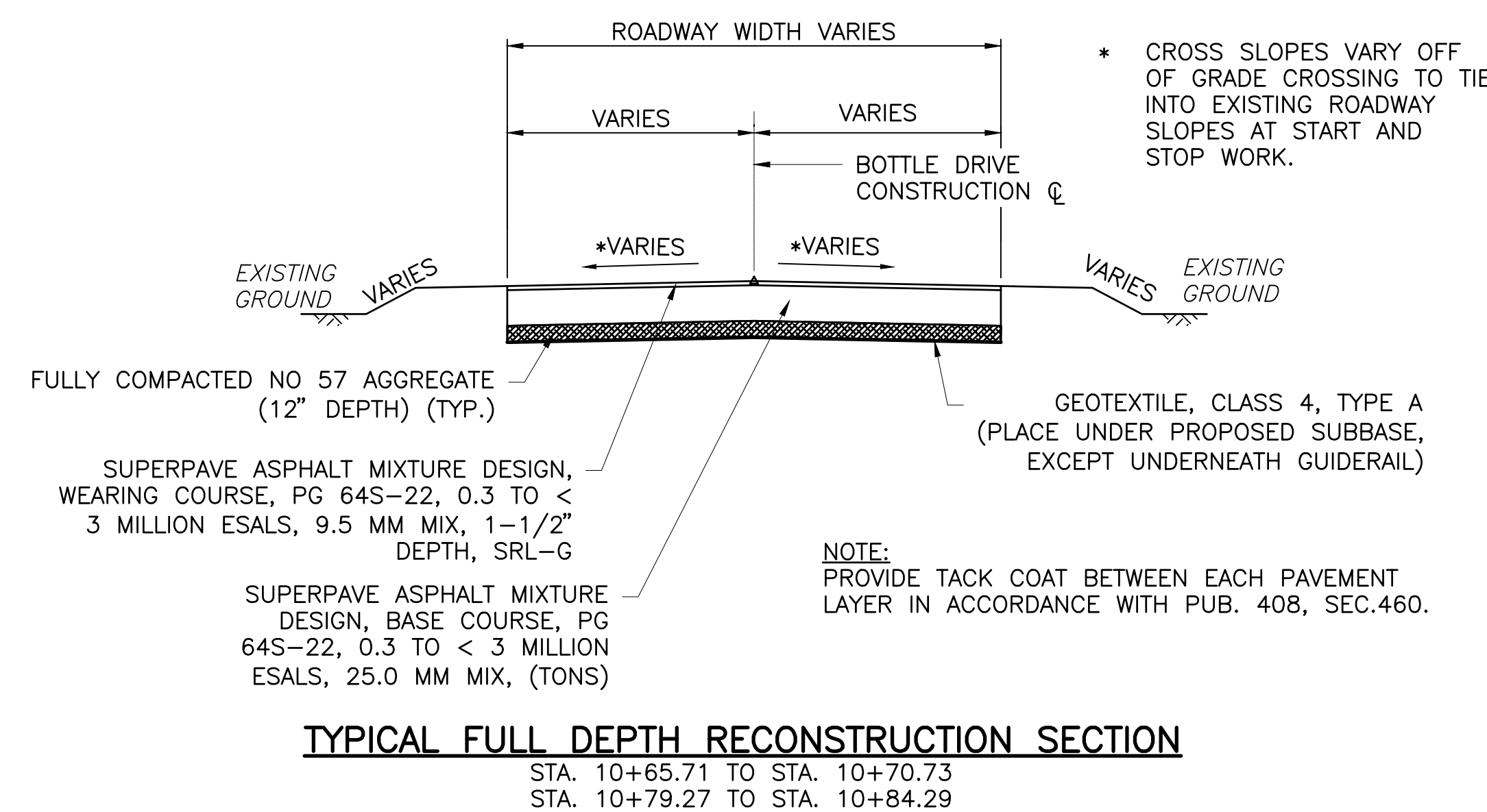
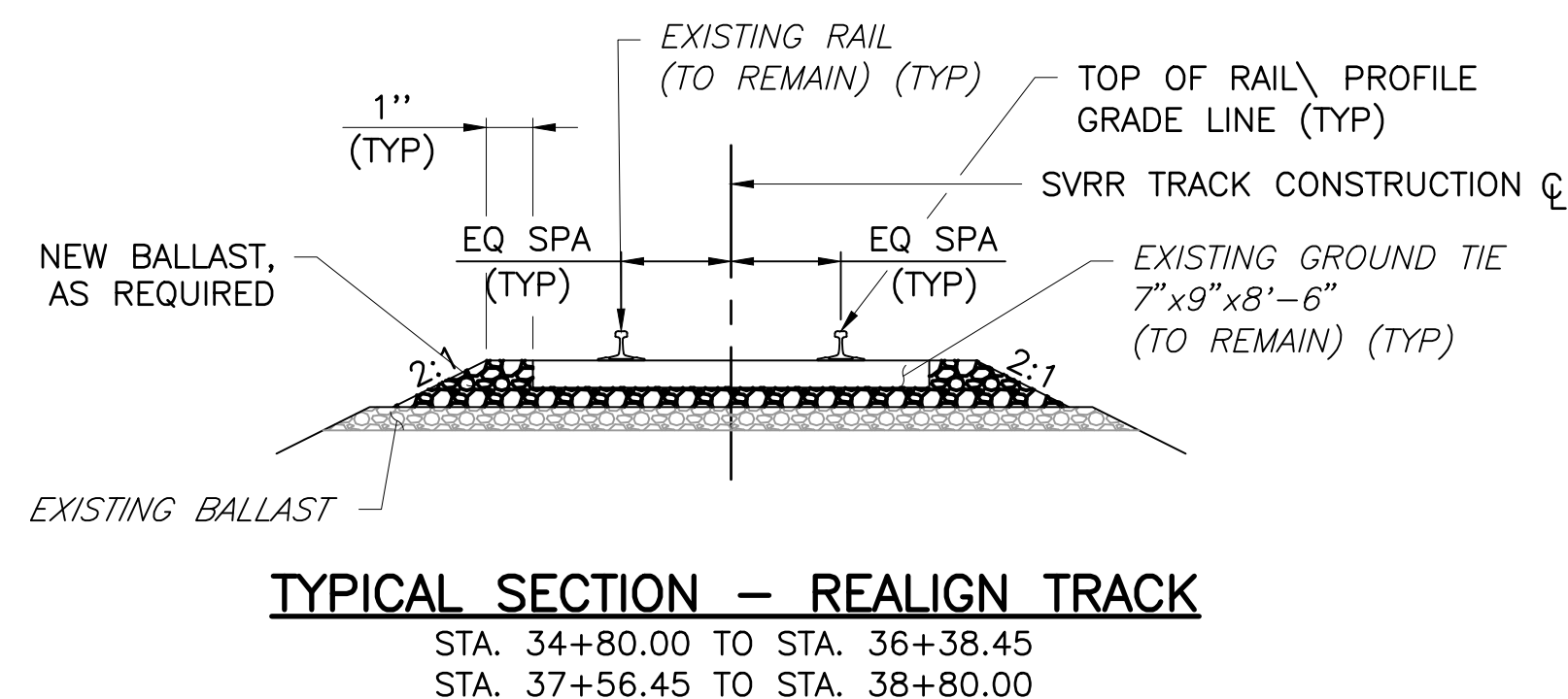
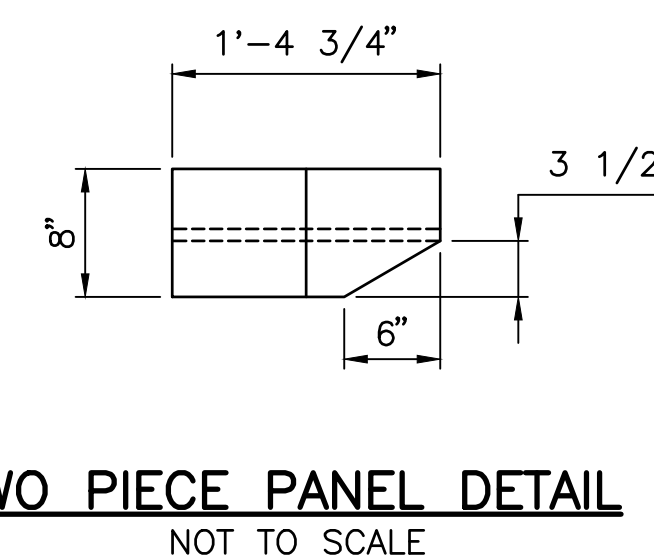
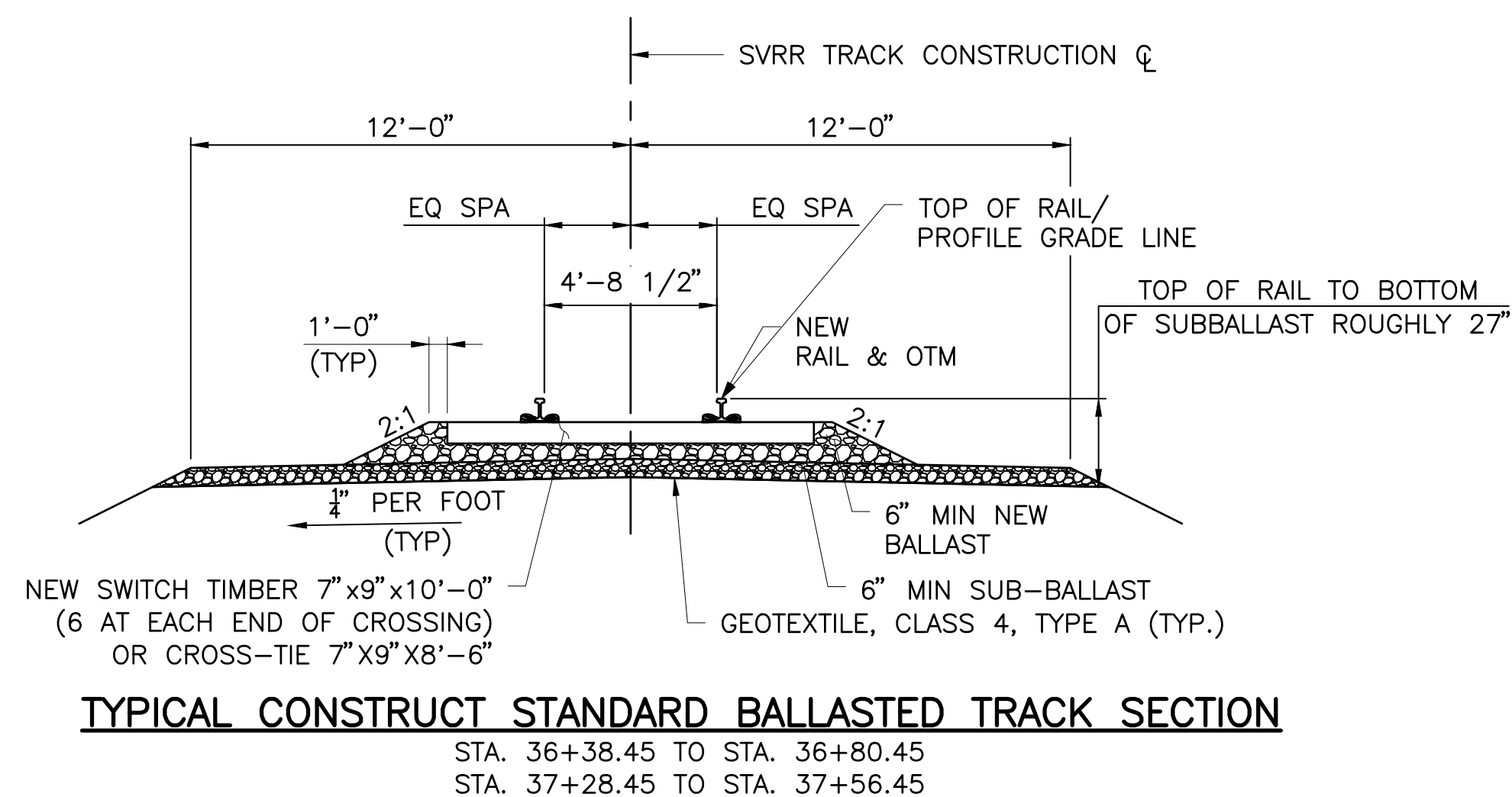
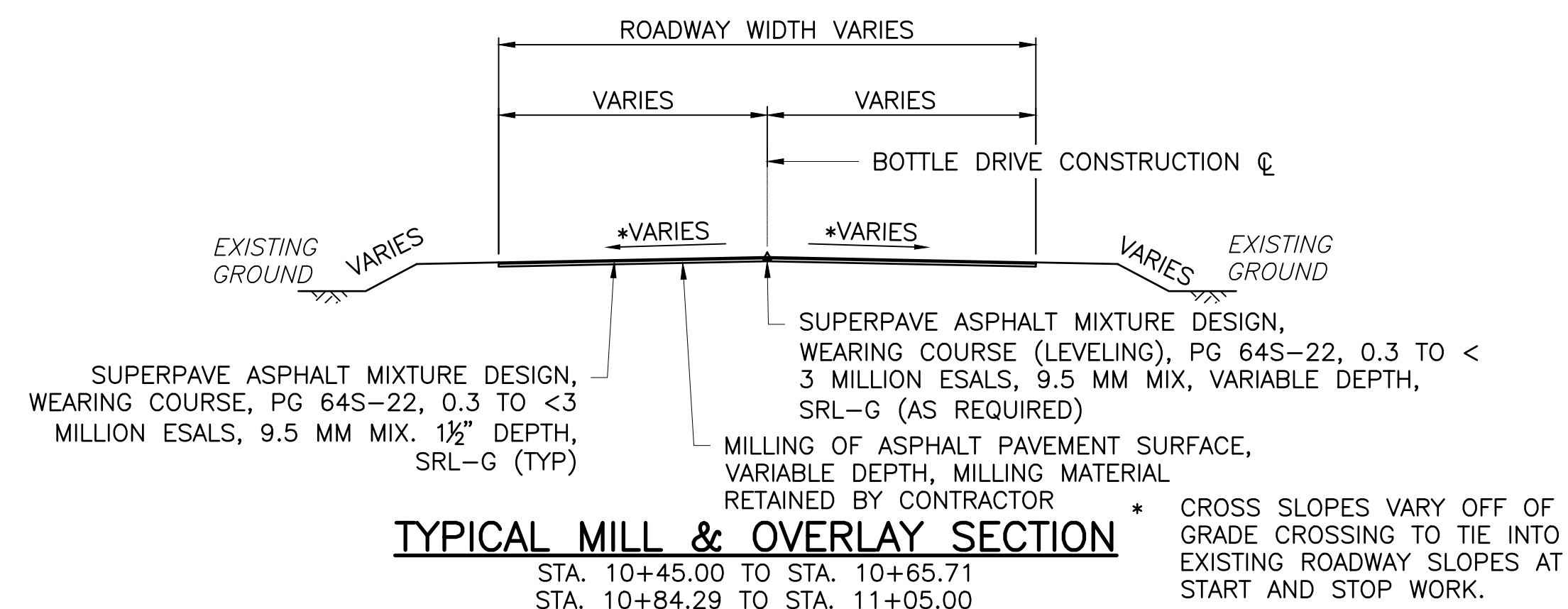
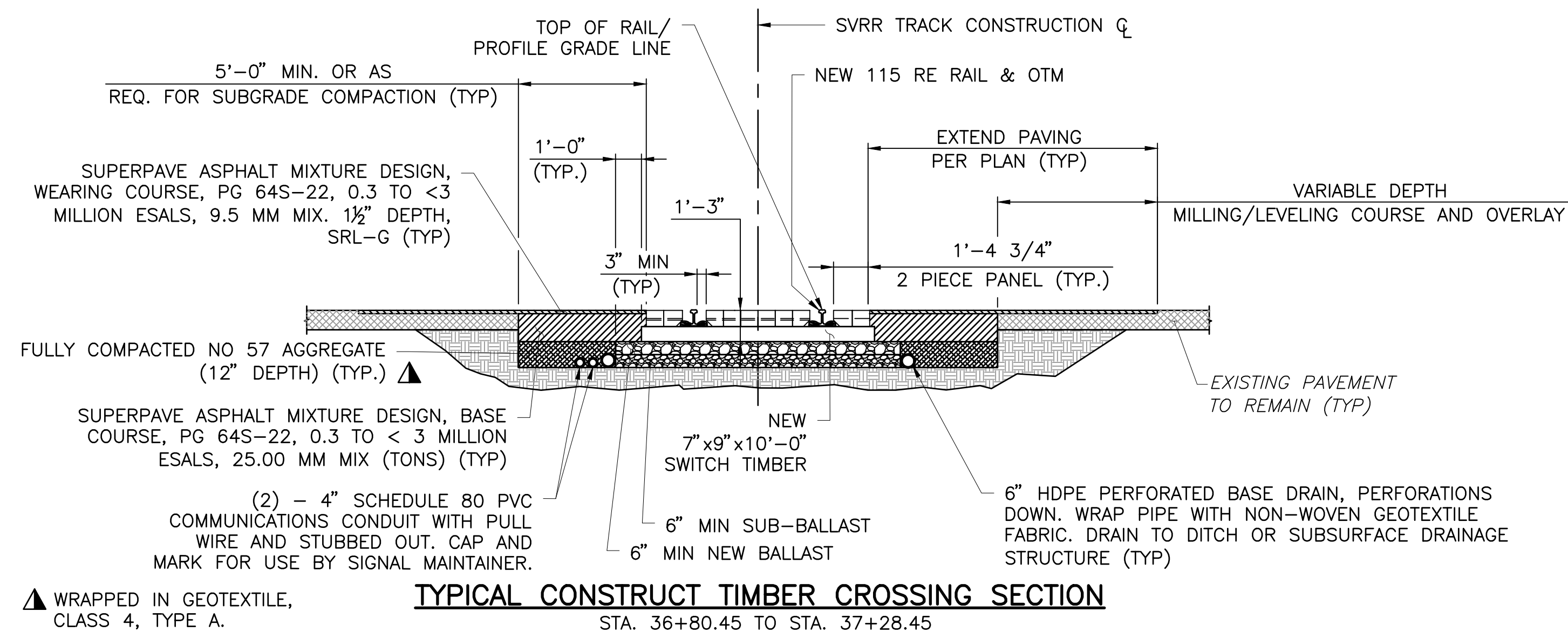
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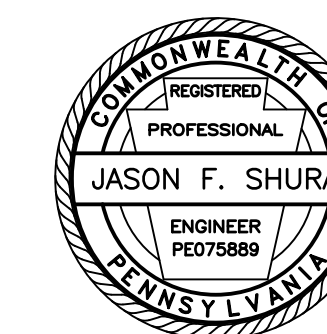
TYPICAL SECTIONS

PROJECT NO.	19-0001.199
DRAWN BY:	JES
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

C4





Stiffler, McGraw & Associates, Inc.

Owner:

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETAILS

PROJECT NO. 19-0001.199

DRAWN BY: JES

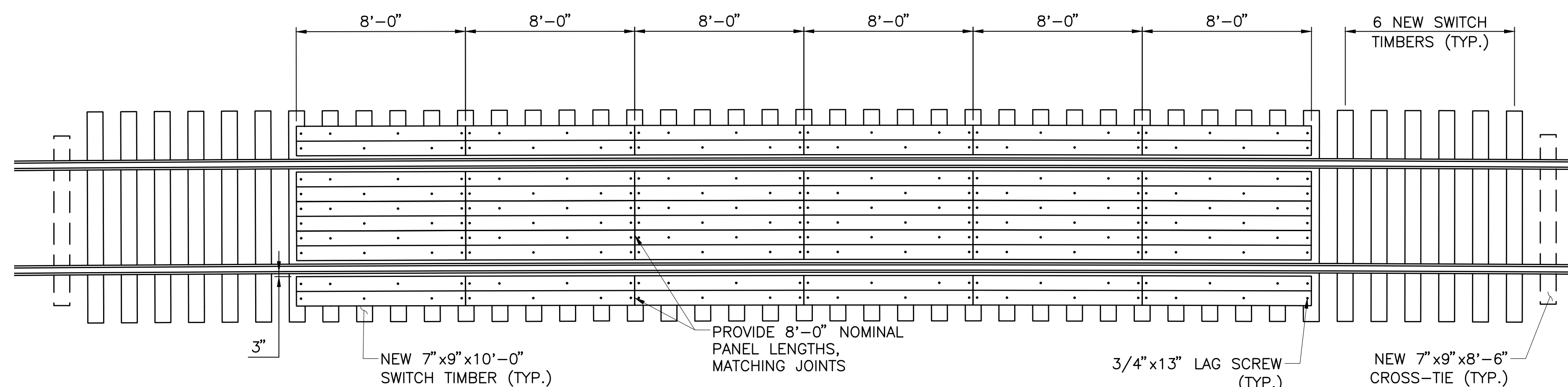
DESIGNED BY: JES

CHECKED BY: JFS

SCALE: AS SHOWN

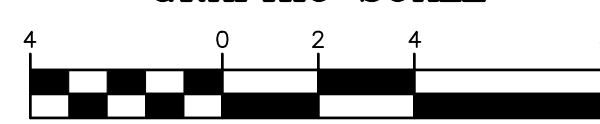
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C5

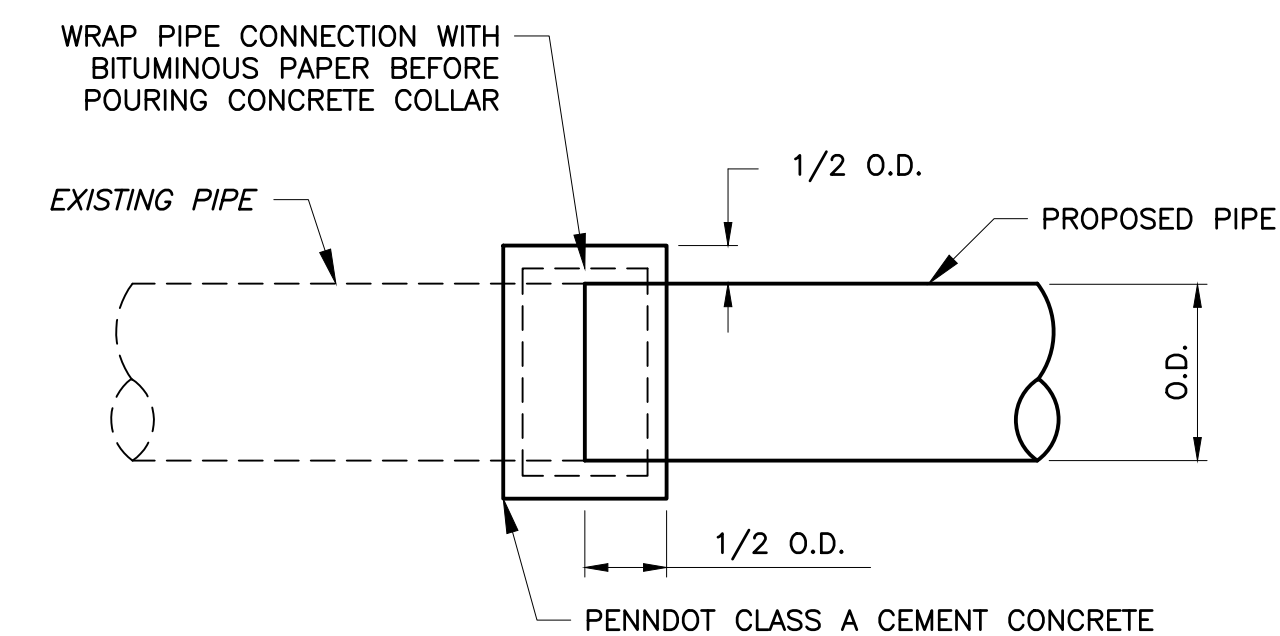


AT-GRADE CROSSING PLAN

GRAPHIC SCALE



(IN FEET)

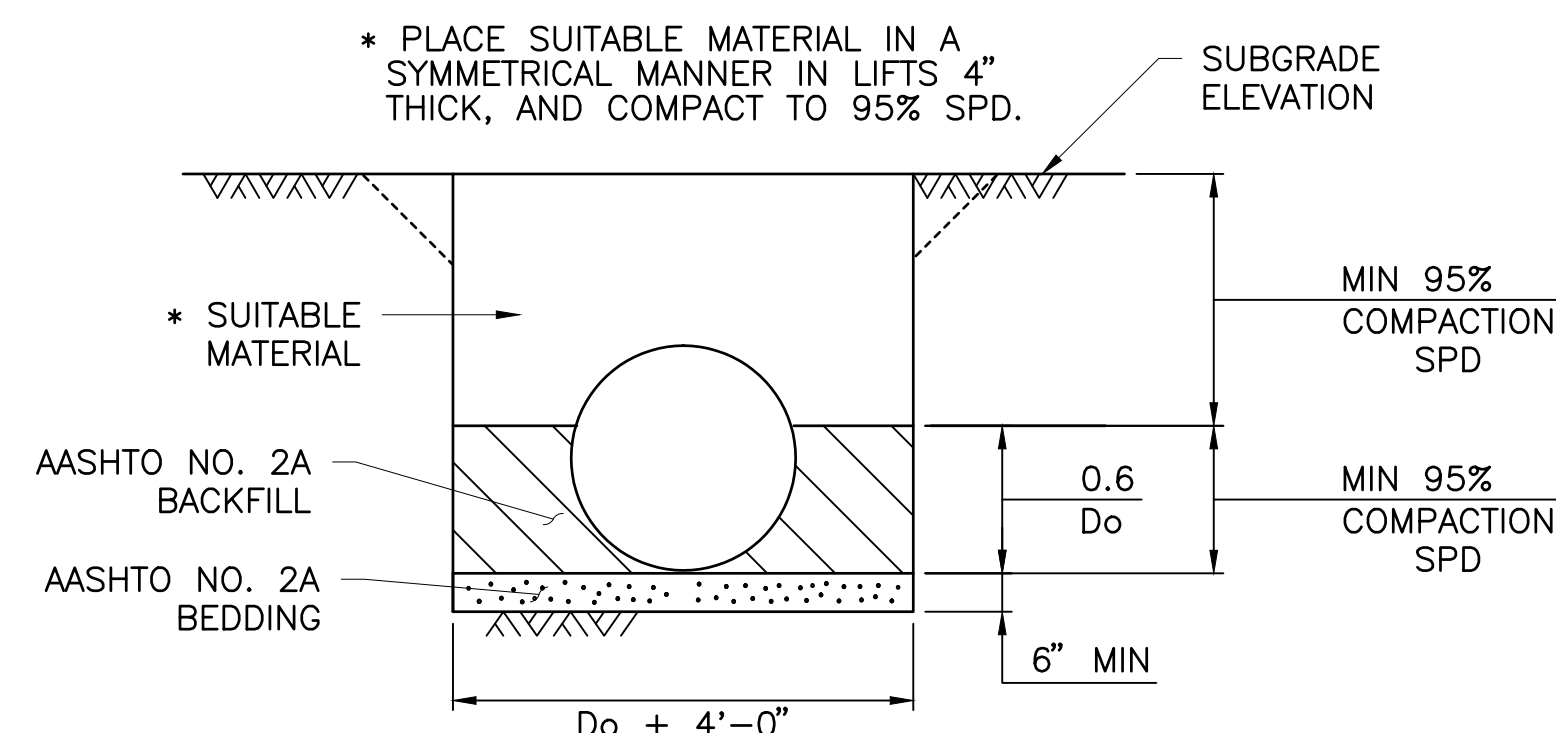


NOTES

1. CONSTRUCT IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 618 FOR CONCRETE COLLAR FOR PIPE EXTENSION.
2. SEE PENNDOT STD. DWG. NO. RC-32M FOR OTHER DETAILS NOT SHOWN

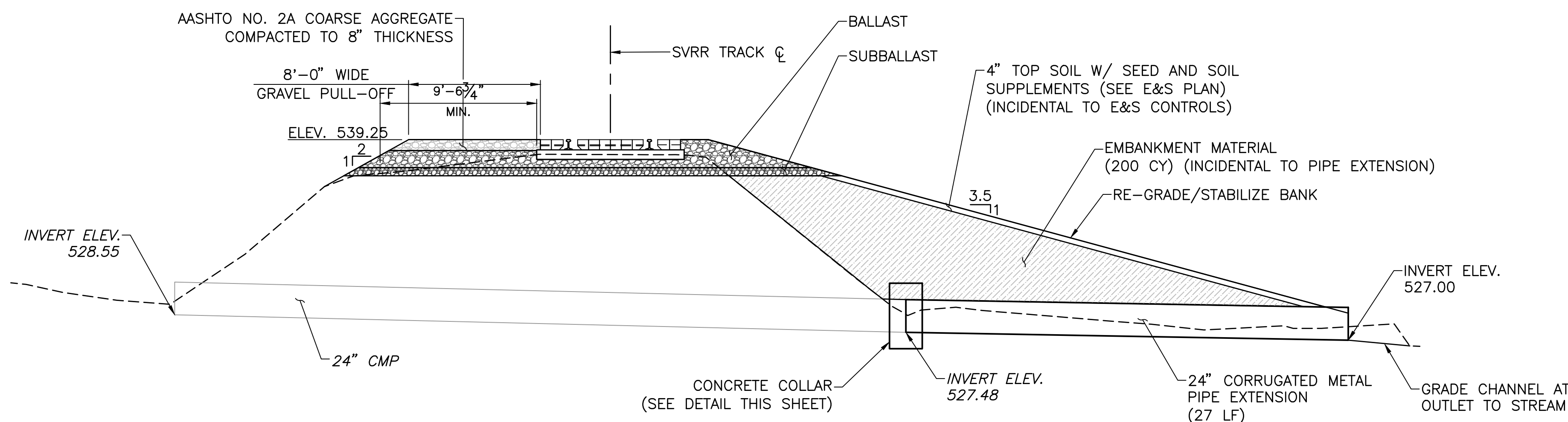
**CONCRETE COLLAR FOR PIPE EXTENSION
(INCIDENTAL TO 24" CMP ITEM)**

NOT TO SCALE



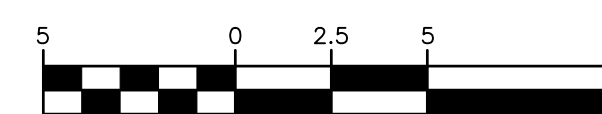
**TYPICAL SECTION CORRUGATED
METAL PIPE CULVERT**

NOT TO SCALE



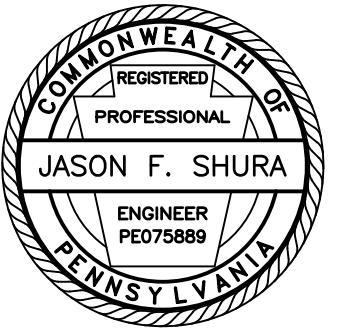
SECTION A-A (SHEET C-1)

GRAPHIC SCALE



(IN FEET)

DATUM 520



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02
RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

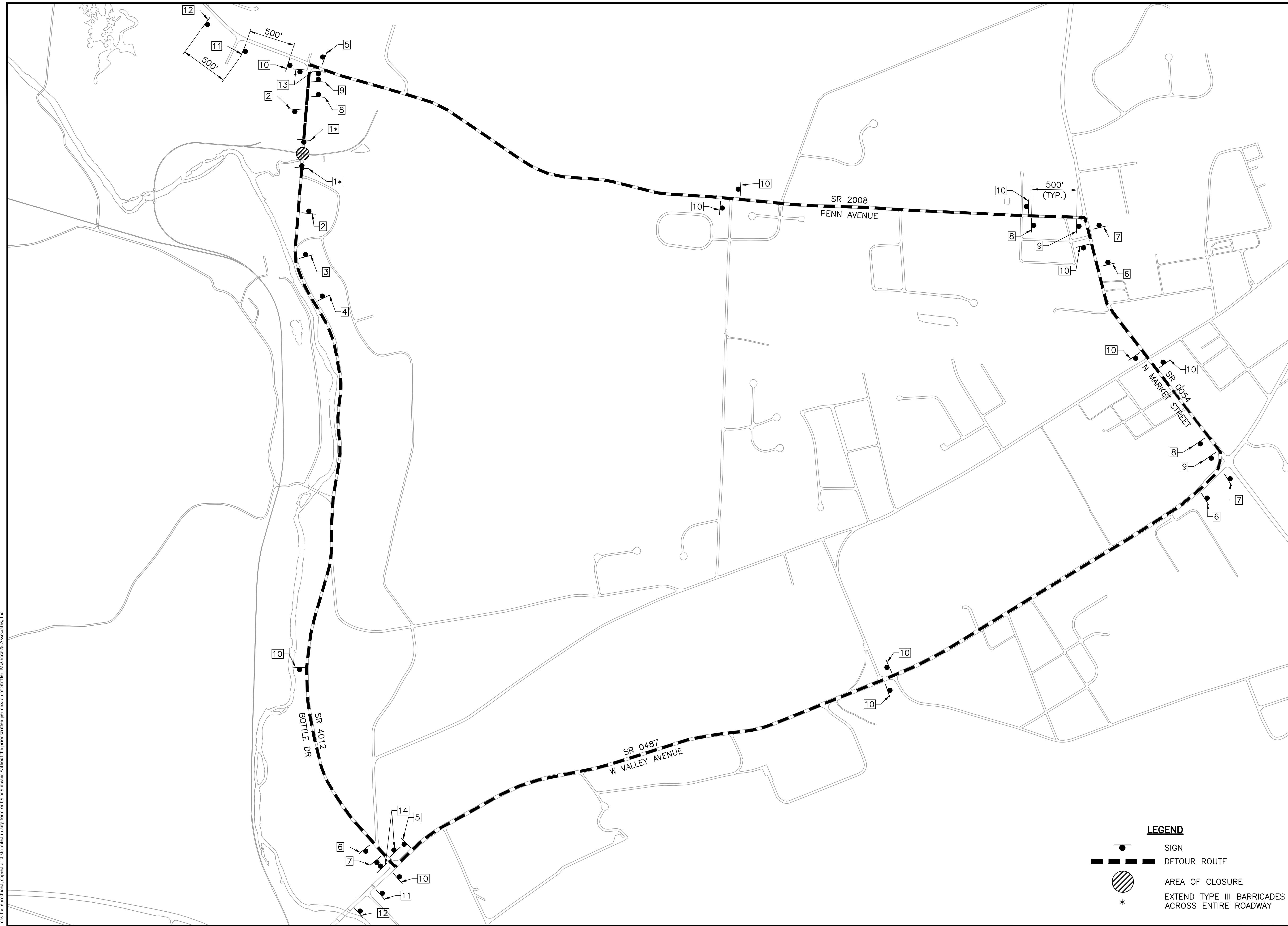
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.199
DRAWN BY:	JES
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

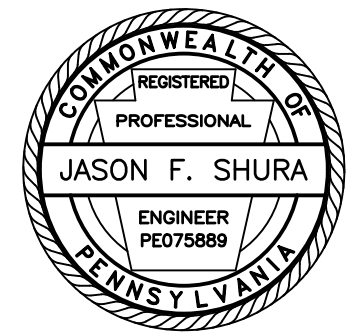
TC1



LEGEND

- SIGN
- DETOUR ROUTE
- AREA OF CLOSURE
- EXTEND TYPE III BARRICADES ACROSS ENTIRE ROADWAY

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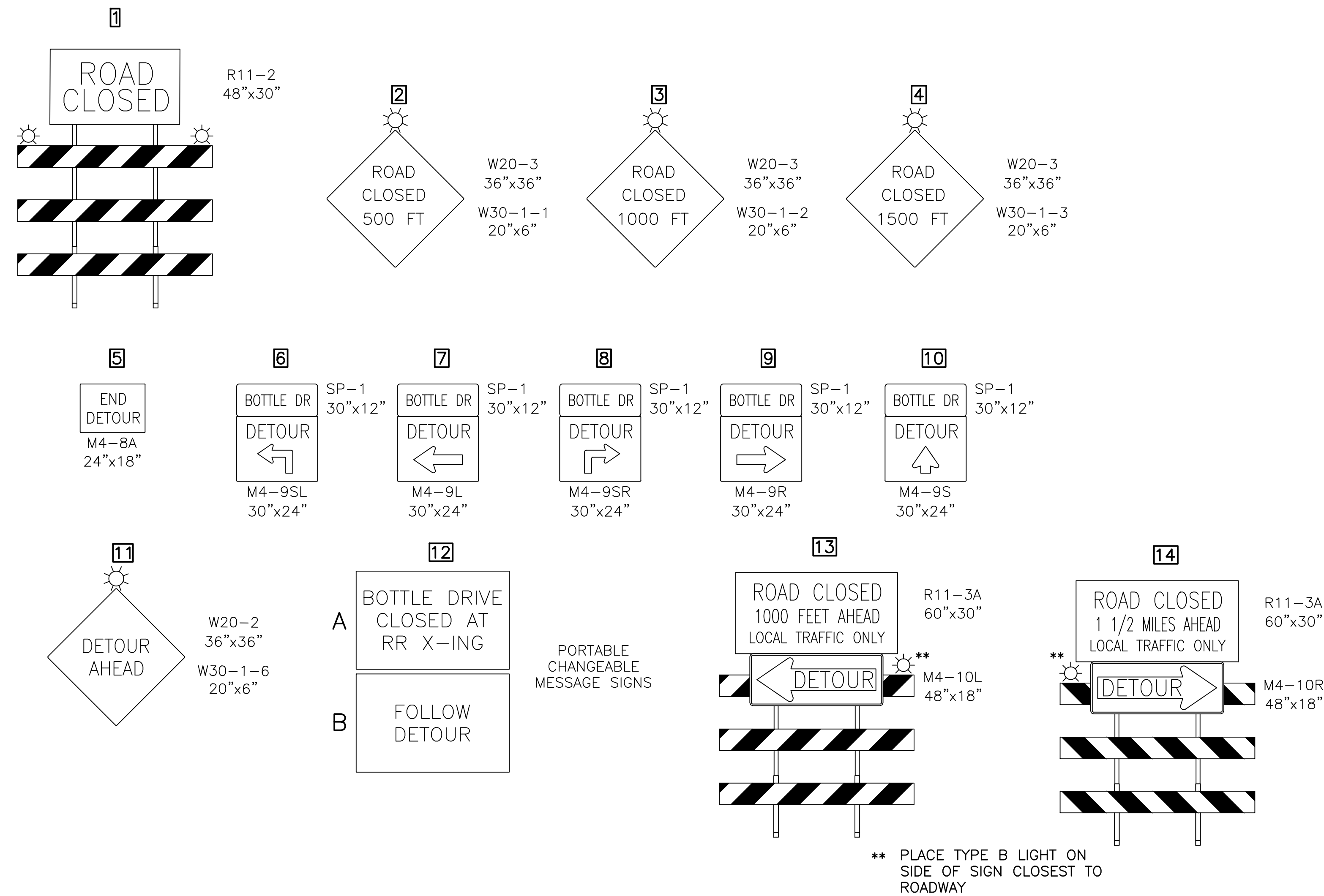
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.199
DRAWN BY:	JES
DESIGNED BY:	JES
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SCALE:	AS SHOWN

Drawing:

TC2

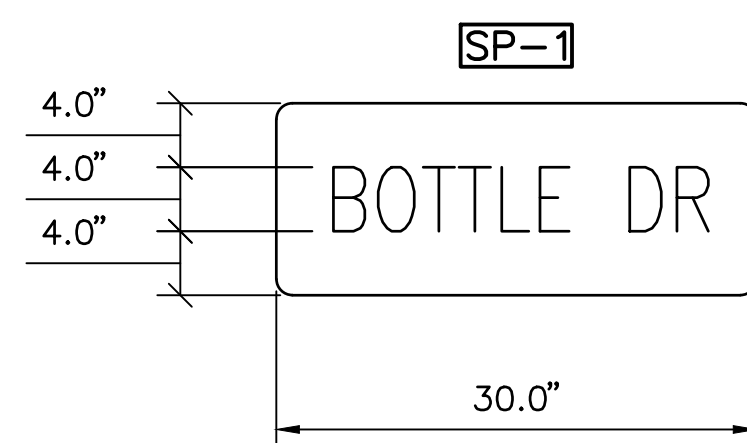


** PLACE TYPE B LIGHT ON SIDE OF SIGN CLOSEST TO ROADWAY

**TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	3
M4-9R	30" X 24"	RIGHT DETOUR	3
M4-9S	30" X 24"	STRAIGHT DETOUR	11
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	3
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	3
M4-10L	48" X 18"	DETOUR ARROW, LEFT	2
M4-10R	48" X 18"	DETOUR ARROW, RIGHT	2
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	4
W20-2	36" X 36"	ADVANCE DETOUR	2
W20-3	36" X 36"	ROAD CLOSED	4
W30-1-1	20" X 6"	500 FT	2
W30-1-2	20" X 6"	1000 FT	1
W30-1-3	20" X 6"	1500 FT	1
W30-1-6	20" X 6"	AHEAD	2
SP-1	30" X 12"	SPECIAL SIGN	23
		PORTABLE CHANGEABLE MESSAGE SIGN	2
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"BOTTLE DR"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

1.6	B	2.2	O	0.7	T	0.2	T	0.7	L	0.7	E	2.0	D	0.8	R	2.2	1.7
-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	-----	---	-----	-----

LETTERS = 16.90

SPACES = 13.10

TOTAL = 30.0

TEMPORARY CONTROL MEASURES AND FACILITIES

THE TEMPORARY CONTROL MEASURES AND FACILITIES ARE TO BE ABACT RATED AND CONSIST OF:

- COMPOST FILTER SOCKS:
COMPOST FILTER SOCKS WILL BE PLACED DOWNSLOPE OF EARTH DISTURBANCE ACTIVITIES TO REDUCE THE QUANTITY OF SEDIMENT FLOW.

PERMANENT CONTROL MEASURES AND FACILITIES

THE PERMANENT CONTROL MEASURES CONSIST OF:

- SEEDING AND STABILIZATION:
THE ENTIRE SITE WILL BE STABILIZED BY THE PROPOSED FINAL "COVER", CONSISTING OF VEGETATION. SOIL TESTING SHALL BE PERFORMED TO DETERMINE PROPER SOIL AMENDMENTS FOR SEEDING AS INDICATED.

RECEIVING WATERS

THE RECEIVING WATERS FOR THIS PROJECT IS POCAHONTAS CREEK. POCAHONTAS CREEK HAS A DESIGNATED USE OF COLD WATER FISHERY, MIGRATORY FISHES (CWF, MF) IN THE PENNSYLVANIA CHAPTER 93 WATER QUALITY STANDARDS. POCAHONTAS CREEK DOES NOT CARRY A TROUT CLASSIFICATION FOR THE PA FISH AND BOAT COMMISSION.

POCAHONTAS CREEK IS TRIBUTARY TO SHAMOKIN CREEK. SHAMOKIN CREEK HAS A DESIGNATED USE OF WARM WATER FISHERY, MIGRATORY FISHES (WWF, MF) IN THE PENNSYLVANIA CHAPTER 93 WATER QUALITY STANDARDS. ITS EXISTING USE IS THE SAME. SHAMOKIN CREEK DOES NOT CARRY A TROUT CLASSIFICATION FOR THE PA FISH AND BOAT COMMISSION.

SOIL INFORMATION

THE FOLLOWING SOIL(S) WILL BE ENCOUNTERED DURING EARTHMOVING OPERATIONS TO CONSTRUCT THE PROPOSED FACILITY:

Table with 7 columns: SOIL UNIT, SOIL NAME, EASILY ERODIBLE, CUT BANKS, SEASONAL HIGH WATER TABLE, POTENTIAL HYDRIC, ACIDIC. Rows include Hv (HOLLY) and Uf (UDIFLUVENTS).

THE SOIL INFORMATION IN THIS TABLE IS FROM THE PA DEP BUREAU OF OIL & GAS MANAGEMENT'S EROSION, SEDIMENT AND STORMWATER CONTROL PLAN FOR OIL AND GAS OPERATIONS, APPENDIX B (FORM 5500-FM-OG0111 REV. 12/2015) AND THE SOIL SURVEY OF NORTHUMBERLAND COUNTY (USDA-NRCS, 1993).

SOIL LIMITATIONS RESOLUTIONS:

- THE ERODIBLE SOIL LIMITS WILL BE MITIGATED BY THE USE OF COMPOST FILTER SOCKS, EROSION CONTROL BLANKETS, AND PROPER STABILIZATION FEATURES.
CUT BANK FAILURE WILL BE MITIGATED BY USE OF PROPER COMPACTION, BENCHING, SHORING, AND TRENCHING TECHNIQUES AND LIMITING STEEP SLOPES.
A WETLANDS INVESTIGATION WAS COMPLETED FOR THE PROJECT ON JUNE 1, 2023 BY CHRISTOPHER D. SAWYER, WPIT OF STIFFLER, MCGRAW AND ASSOCIATES, INC. THE RESULTS OF THE INVESTIGATION DETERMINED THAT WETLANDS ARE NOT PRESENT WITHIN THE PROPOSED DISTURBED AREAS OF THE PROJECT.
HIGH WATER TABLE LIMITS DURING TRENCHING ACTIVITIES WILL BE CONTROLLED BY THE USE OF PUMPED WATER FILTER BAGS.
SOILS WILL BE TESTED AND ALKALINE ADDITIONS APPLIED TO ACIDIC SOILS PRIOR TO SEEDING AND MULCHING.

MAINTENANCE OF CONTROL FACILITIES

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

A LOG SHOWING DATES THAT EROSION AND SEDIMENT BMPS WERE INSPECTED, AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED, SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION (SEE "VISUAL SITE INSPECTION REPORT" ATTACHED TO THE E&S NARRATIVE).

SEDIMENT WILL BE CLEANED FROM THE COMPOST FILTER SOCKS WHEN ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE SYSTEM. INSTALL A ROCK FILTER OUTLET WHEN A COMPOST FILTER SOCK IS DAMAGED OR REPAIR THE DAMAGED COMPOST FILTER SOCK AS PER MANUFACTURER'S SPECIFICATION.

PUMPED WATER FILTER BAGS WILL BE INSPECTED DAILY AND IMMEDIATELY REPLACED WHEN FIFTY PERCENT OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE. IF PROBLEMS ARE DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND SHALL NOT RESUME UNTIL THE PROBLEMS ARE CORRECTED. SPARE PUMPED WATER FILTER BAG(S) SHALL BE AVAILABLE FOR REPLACEMENT OF PUMPED WATER FILTER BAGS THAT HAVE FAILED OR BECOME FULL.

ALL SEDIMENT SHALL BE REMOVED FROM A TEMPORARY SEDIMENTATION OR EROSION CONTROL DEVICE PRIOR TO THE REMOVAL OF THAT DEVICE. TEMPORARY CONTROL DEVICES WILL BE REMOVED BY STARTING UPSTREAM OR UP-SLOPE TO ENSURE SEDIMENTATION CONTROL DURING THE REMOVAL PROCESS. THE FILTER MEDIA FROM WITHIN THE SILTSOXX, DITCH CHEXX AND COMPOST FILTER SOCKS WILL BE DISPERSED ON SITE ONCE THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED OR AS DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OR PERMANENT STABILIZATION OF ALL SEDIMENT REMOVED FROM BMPS. THE SEDIMENT SHALL NOT BE DUMPED IN AREAS WHERE EROSION WILL CAUSE AN UNSIGHTLY SCAR OR WHERE THE SEDIMENT CAN REACH A STREAM. UPON REMOVING THE SEDIMENT FROM THE DEVICE AND PLACING IT IN A SUITABLE LOCATION, THE MATERIAL SHALL BE SPREAD TO A UNIFORM DEPTH, SEEDED AND STABILIZED.

THE CONTRACTOR SHALL PREPARE AN EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR ANY AREAS TO BE DISTURBED WHICH ARE NOT SHOWN ON THE DRAWINGS SUCH AS JOB TRAILER SITES, MATERIAL STORAGE SITES, EQUIPMENT MAINTENANCE SITE, AND BORROW AND WASTE AREAS, ETC. PLANS MUST BE APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT BEFORE EARTH DISTURBANCE OCCURS AT THE RESPECTIVE AREA. THE CONTRACTOR SHOULD ALLOW 30 DAYS IN THEIR CONSTRUCTION PLANNING FOR REVIEW OF THE SUBMITTED PLAN BY THE LOCAL COUNTY CONSERVATION DISTRICT.

GENERAL EARTHWORK AND SPOIL AND BORROW AREAS

ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED BY THE CONTRACTOR TO DETERMINE IF THE MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTION, ELECTRONIC DATABASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND / OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF 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 THE DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES, SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

LONG, STEEP CUT AND FILL SLOPES SHOULD BE SEEDED AND MULCHED IN FIFTEEN-FOOT VERTICAL INCREMENTS, WHICH MAY BE INCREASED TO TWENTY-FOOT VERTICAL INCREMENTS IF VERY LARGE EQUIPMENT IS USED.

IF OFF-SITE SPOIL OR BORROW AREAS FOR MATERIALS ARE REQUIRED, THE CONTRACTOR WILL PREPARE AND SUBMIT AN EROSION AND SEDIMENTATION CONTROL (E&S) PLAN FOR EACH SITE CHOSEN TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR REVIEW. THE CONTRACTOR SHALL PROVIDE A WETLAND ASSESSMENT, AND SHALL BE RESPONSIBLE FOR ANY OTHER PERMITS REQUIRED, FOR EACH SITE CHOSEN.

ALL AREAS USED FOR DEPOSITION OF EXCESS MATERIALS OR AS A SOURCE OF FILL MATERIALS SHALL BE ADEQUATELY PROTECTED AGAINST EROSION AND SEDIMENTATION. ALL SPOIL AND BORROW AREAS SHALL RECEIVE FINAL GRADING AND STABILIZATION UPON COMPLETION OF THE PROJECT.

IF EXCESS MATERIALS ARE TO BE SPREAD OUT AND GRADED WITHIN THE PROJECT LIMITS, THE AREA SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE. IF THE MATERIALS ARE STOCKPILED WITHIN THE PROJECT LIMITS, FILTER FABRIC FENCES AND / OR SILTSOXX SHALL BE PLACED ON THE DOWNSTREAM SIDE.

THE CONTRACTOR SHALL NOT DISTURB GROUND COVER AREAS BEYOND THOSE NECESSARY TO SATISFACTORILY COMPLETE THE REQUIRED WORK.

THE CONTRACTOR SHALL DIVERT SURFACE RUNOFF AWAY FROM CONSTRUCTION AREAS WHERE PRACTICAL.

THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST ON OR NEAR THE PROJECT SITE AND ON OR NEAR ALL OFF-SITE BORROW AND WASTE AREAS, AS RESULTING FROM THE CONTRACTOR'S OPERATIONS.

RECYCLING & DISPOSAL OF MATERIALS

WASTES GENERATED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE RECYCLED IF AT ALL POSSIBLE. ANY MATERIALS THAT CAN NOT BE RECYCLED OR REUSED SHALL BE DISPOSED OF AT A NPDES SITE. TRASH AND DEBRIS SHALL BE DISPOSED OF AT A PREAPPROVED LANDFILL. IF SOIL AND/OR ROCK DISPOSAL AREAS ARE REQUIRED, EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED AT THESE AREAS. ANY SOIL BORROWS OR SOIL WASTE SITES THAT WILL BE LOCATED OUTSIDE THE PROJECT AREA MUST FIRST BE APPROVED BY THE APPROPRIATE AGENCIES.

GEOLOGIC FORMATIONS/SOIL CONDITIONS

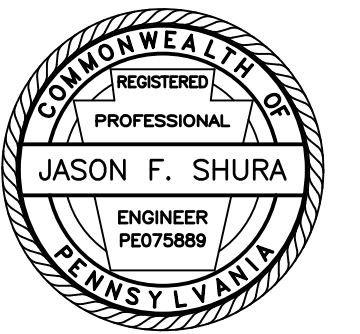
THERE ARE NO VISIBLE GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT WOULD HAVE POTENTIAL TO CAUSE POLLUTION. AT THIS TIME, IT IS UNKNOWN IF SUBSURFACE GEOLOGIC FORMATIONS OR SOIL EXIST THAT WOULD HAVE POTENTIAL TO CAUSE POLLUTION. IF GRADING ACTIVITIES OR CONSTRUCTION OF ANY OF THE FACILITIES UNCOVERS ANY GEOLOGIC FORMATION OR SOIL CONDITION THAT COULD HAVE THE POTENTIAL TO CAUSE POLLUTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

NOTES:

- EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES (BMPS) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.
THE CONTRACTOR SHALL COORDINATE THEIR PROPOSED STABILIZATION MEASURES FOR ALL WORK AREAS TO BE COMPLETED DURING THE NON-GROWING SEASON DIRECTLY WITH THE COUNTY CONSERVATION DISTRICT.



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
BOTTLE DRIVE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

Table with 3 columns: No., Date, Description. Row 1 contains a triangle symbol in the No. column.

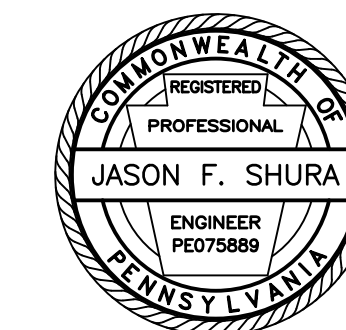
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**EROSION AND
SEDIMENT POLLUTION
CONTROL NOTES**

Table with 2 columns: PROJECT NO., DRAWN BY, DESIGNED BY, CHECKED BY, SCALE. Values include 19-0001.199, JES, JFS, AS SHOWN.

Drawing:

ES2



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LEWISBURG, PA 17837

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PROJECT

2023-02

RALPHO TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

**EROSION AND
SEDIMENT POLLUTION
CONTROL DETAILS**

PROJECT NO.	19-0001.199
DRAWN BY:	JES
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

ES3

SEEDING AND SOIL SUPPLEMENT TABLE

PLACE SEEDING SOIL SUPPLEMENTS ON ALL AREAS AT THE RATES SPECIFIED BELOW:

FORMULA AND SPECIES	% BY WEIGHT	MINIMUM %		MAX % WEED SEED	SEEDING RATE LBS./1000 S.Y.
		PURITY	GERMINATION		
FORMULA L CLEAR ZONE MIX					48.0 TOTAL
• HARD FESCUE MIXTURE (FESTUCA LONGIFOLIA). A COMBINATION OF IMPROVED CERTIFIED VARIETIES WITH NO ONE VARIETY EXCEEDING 50% OF THE TOTAL HARD FESCUE COMPONENT.	55	97	85	0.10	26.4
• CREEPING RED FESCUE (FESTUCA RUBRA) (IMPROVED AND CERTIFIED)	35	97	85	0.10	16.8
• ANNUAL RYEGRASS (LOLIUM MULTIFLORUM)	10	95	90	0.10	4.8
FORMULA T TEMPORARY GRASS MIX					6.0 TOTAL
• OATS (AVENA SATIVA) (SPRING)	100	97	85	0.10	6
• CEREAL RYE (SECALE CEREALE) (FALL)	100	97	85	0.10	6

—PERMANENT STABILIZATION: DISTURBED SLOPES ADJACENT TO WINGWALLS, GENERALLY STEEPER THAN 3:1, FORMULA L.

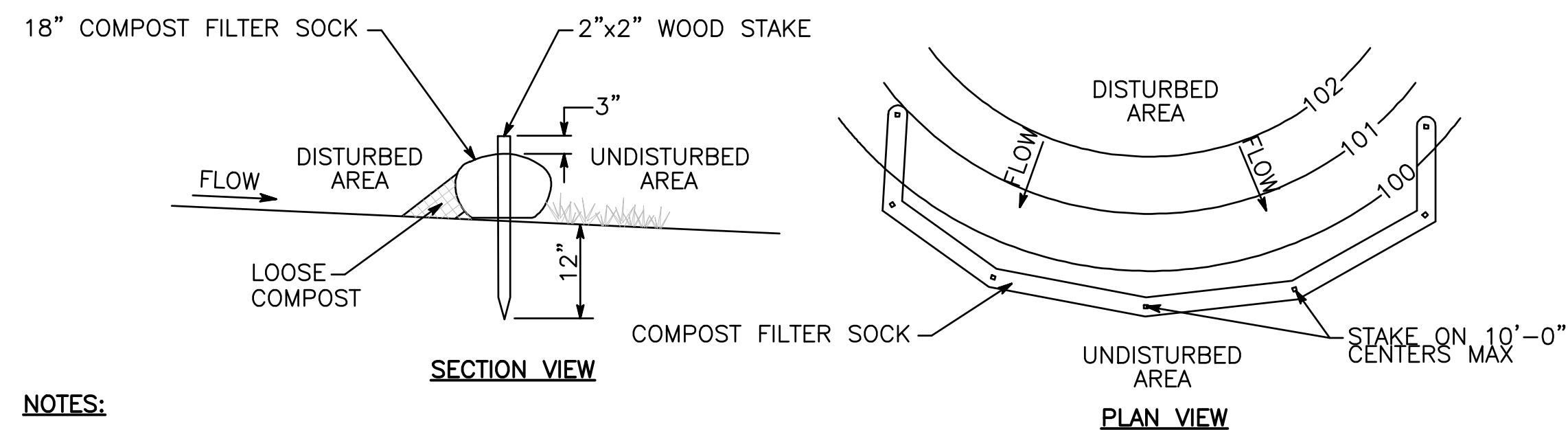
—TEMPORARY STABILIZATION: FORMULA T.

—PULVERIZED AGRICULTURAL LIME 800 LB/1000 SY.

—FERTILIZER 10-20-20 APPLIED AT RATE OF 140 LB/1000 SY.

—FERTILIZER 38-0-0 APPLIED AT RATE OF 50 LB/1000 SY.

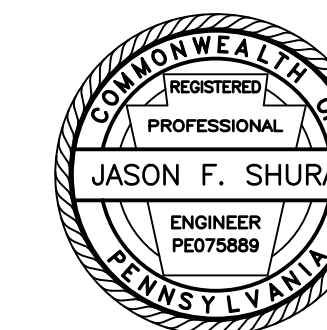
—APPLY MULCHING—STRAW OR HAY AT THE RATE OF 1,240 LB/1000 SY.



NOTES:

1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE-HALF THE HEIGHT 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.

COMPOST FILTER SOCK
N.T.S.



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NORTHUMBERLAND COUNTY

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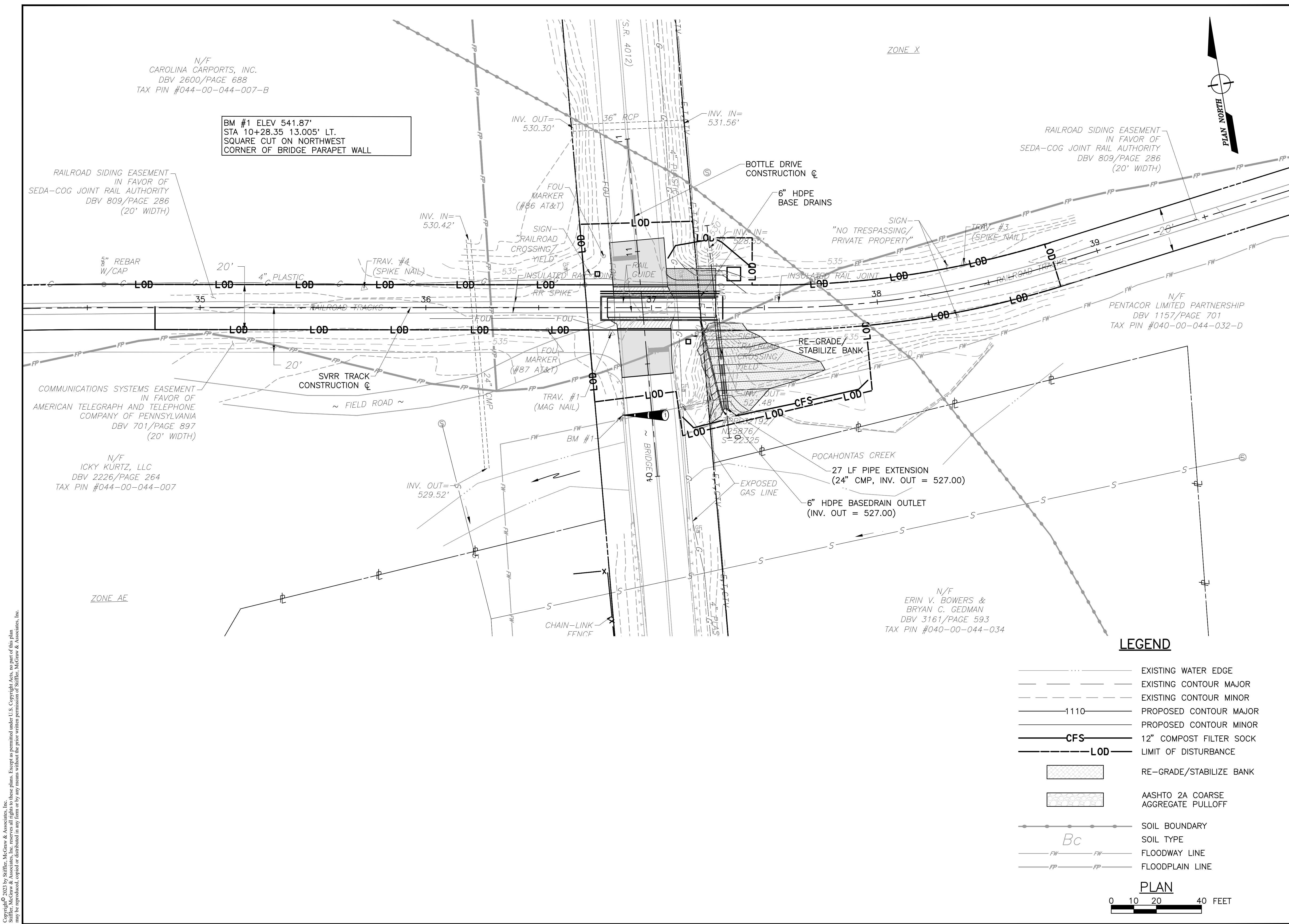
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**EROSION AND
SEDIMENT POLLUTION
CONTROL PLAN**

PROJECT NO. 19-0001.199
DRAWN BY: BRB
DESIGNED BY: BRB
CHECKED BY: JFS
SCALE: AS SHOWN

Drawing:

ES4



LEGEND

- EXISTING WATER EDGE
- - - EXISTING CONTOUR MAJOR
- - - EXISTING CONTOUR MINOR
- 1110- PROPOSED CONTOUR MAJOR
- - - PROPOSED CONTOUR MINOR
- CFS- 12" COMPOST FILTER SOCK
- LOD- LIMIT OF DISTURBANCE
- [Hatched Box] RE-GRADE/STABILIZE BANK
- [Dotted Box] AASHTO 2A COARSE AGGREGATE PULLOFF
- Bc- SOIL BOUNDARY
- Bc- SOIL TYPE
- FW- FLOODWAY LINE
- FP- FLOODPLAIN LINE



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SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD 4TH STREET GRADE CROSSING REPLACEMENT PROJECT

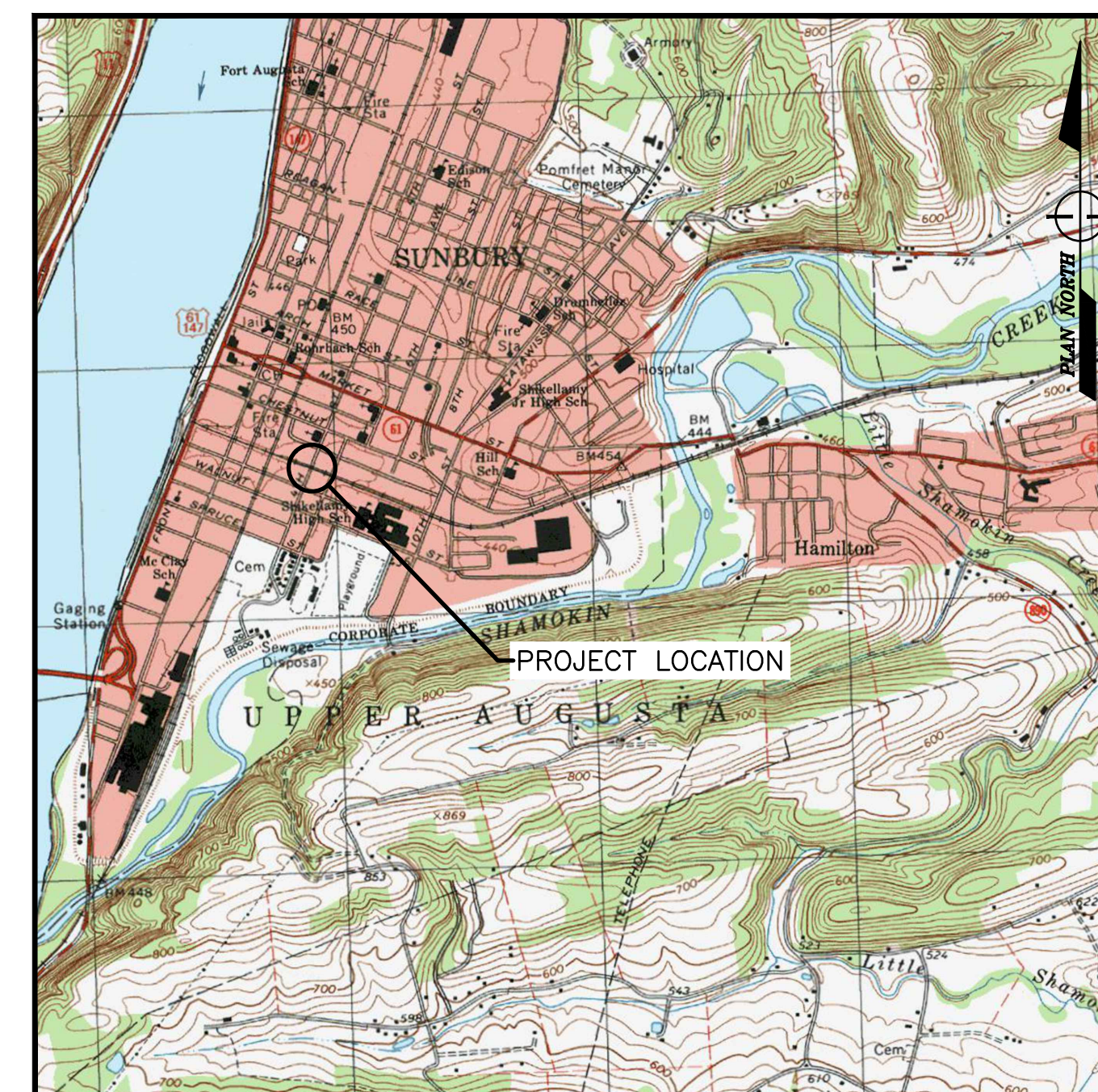
CITY OF SUNBURY, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

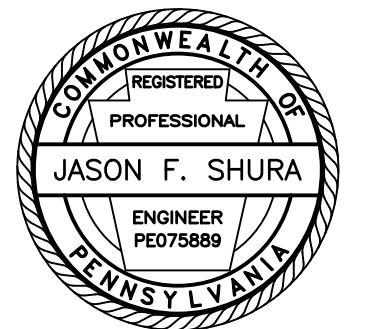
INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	ROAD PROFILE
C4	TYPICAL SECTIONS
TC1	DETOUR PLAN



SUNBURY, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP
SCALE: 1" = 2000'



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Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

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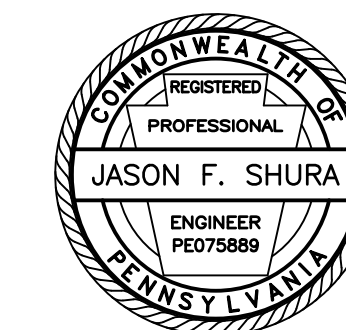
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.179
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DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



Stiffler, McGraw & Associates, Inc.

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AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
4TH STREET GRADE CROSSING
REPLACEMENT PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
1		

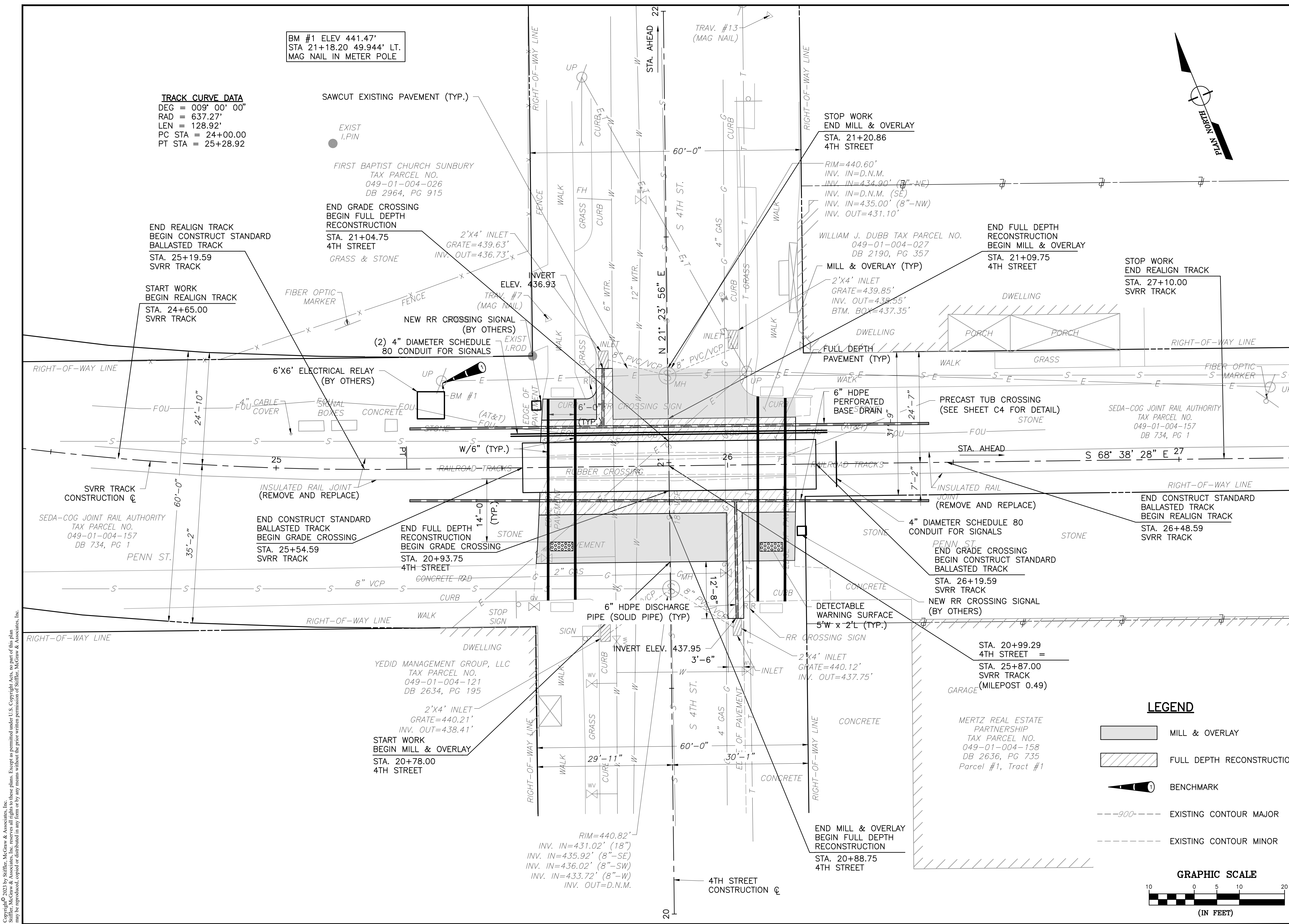
Sheet Title:

SITE PLAN

PROJECT NO.	19-0001.179
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DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C1



BM #1 ELEV 441.47'
STA 21+18.20 49.944' LT.
MAG NAIL IN METER POLE

TRACK CURVE DATA
DEG = 009° 00' 00"
RAD = 637.27'
LEN = 128.92'
PC STA = 24+00.00
PT STA = 25+28.92

SAWCUT EXISTING PAVEMENT (TYP.)

STOP WORK
END MILL & OVERLAY
STA. 21+20.86
4TH STREET

END REALIGN TRACK
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK
STA. 25+19.59
SVRR TRACK

END GRADE CROSSING
BEGIN FULL DEPTH
RECONSTRUCTION
STA. 21+04.75
4TH STREET
GRASS & STONE

MILL & OVERLAY (TYP.)
2'x4' INLET
GRATE=439.85'
INV. IN=439.55'
BTM. BOX=437.35'

END FULL DEPTH
RECONSTRUCTION
BEGIN MILL & OVERLAY
STA. 21+09.75
4TH STREET

STOP WORK
END REALIGN TRACK
STA. 27+10.00
SVRR TRACK

START WORK
BEGIN REALIGN TRACK
STA. 24+65.00
SVRR TRACK

NEW RR CROSSING SIGNAL
(BY OTHERS)
(2) 4" DIAMETER SCHEDULE
80 CONDUIT FOR SIGNALS

FULL DEPTH
PAVEMENT (TYP.)
6" HDPE PERFORATED
BASE DRAIN

PRECAST TUB CROSSING
(SEE SHEET C4 FOR DETAIL)

SEDA-COG JOINT RAIL AUTHORITY
TAX PARCEL NO.
049-01-004-157
DB 734, PG 1

6'x6' ELECTRICAL RELAY
(BY OTHERS)

END CONSTRUCT STANDARD
BALLASTED TRACK
BEGIN GRADE CROSSING
STA. 25+54.59
SVRR TRACK

4" DIAMETER SCHEDULE 80
CONDUIT FOR SIGNALS

END CONSTRUCT STANDARD
BALLASTED TRACK
BEGIN REALIGN TRACK
STA. 26+48.59
SVRR TRACK

END FULL DEPTH
RECONSTRUCTION
BEGIN GRADE CROSSING
STA. 20+93.75
4TH STREET

PENN ST.
END GRADE CROSSING
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK
STA. 26+19.59
SVRR TRACK

STA. 20+99.29
4TH STREET =
STA. 25+87.00
SVRR TRACK
(MILEPOST 0.49)

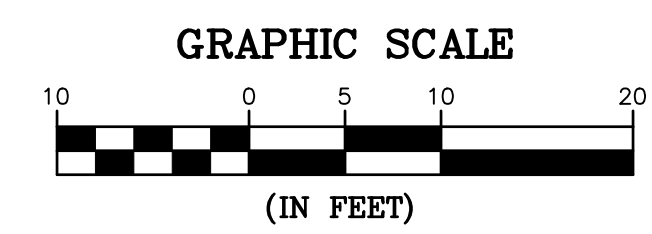
YEDID MANAGEMENT GROUP, LLC
TAX PARCEL NO.
049-01-004-121
DB 2634, PG 195

START WORK
BEGIN MILL & OVERLAY
STA. 20+78.00
4TH STREET

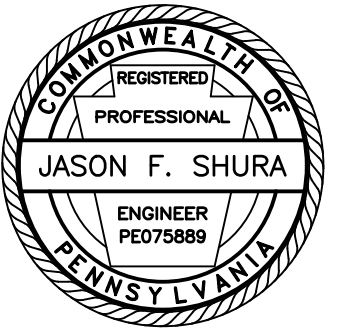
MERTZ REAL ESTATE
PARTNERSHIP
TAX PARCEL NO.
049-01-004-158
DB 2636, PG 735
Parcel #1, Tract #1

LEGEND

- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR



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SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
4TH STREET GRADE CROSSING
REPLACEMENT PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

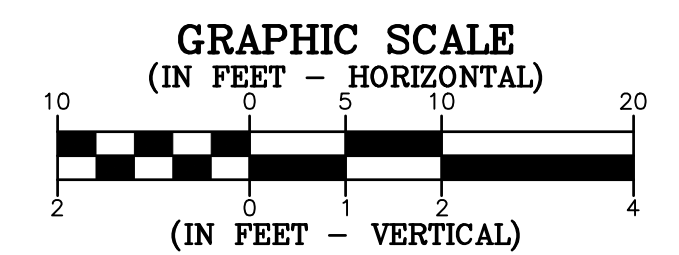
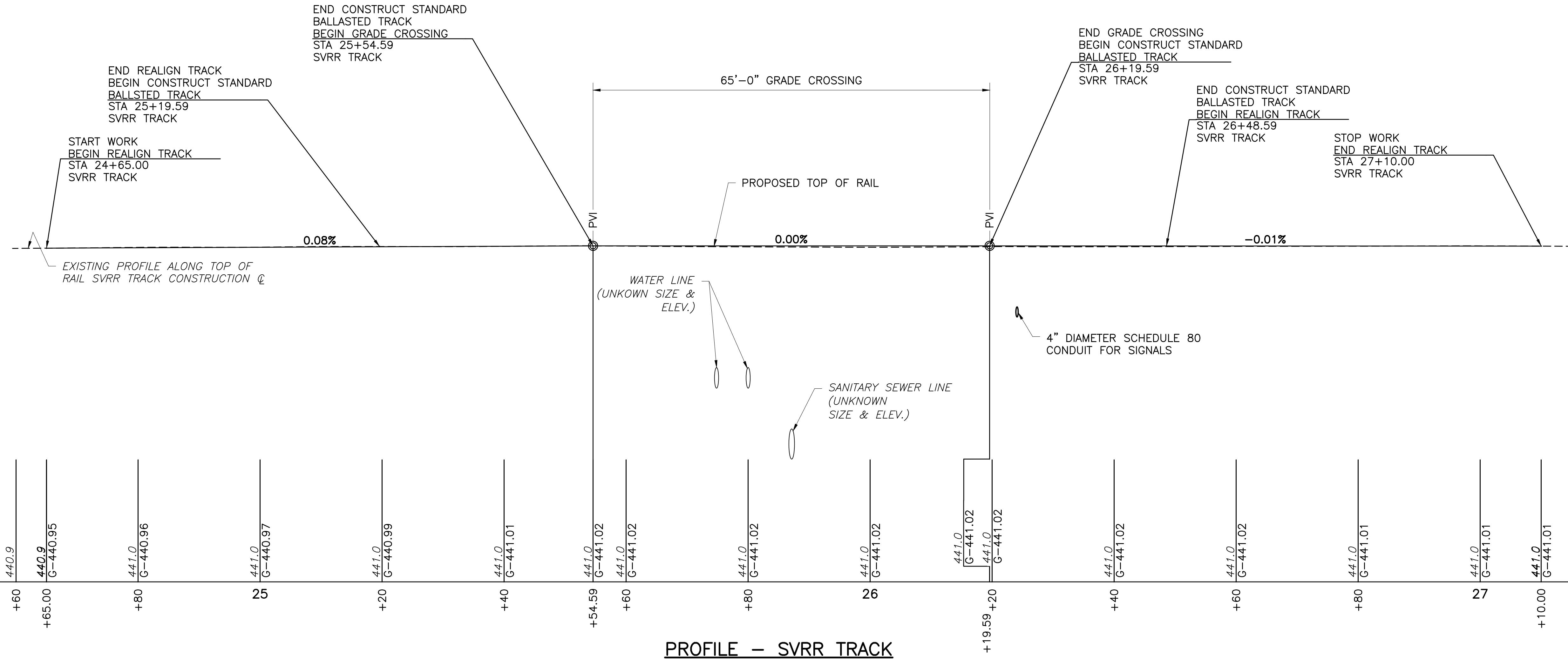
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TRACK PROFILE

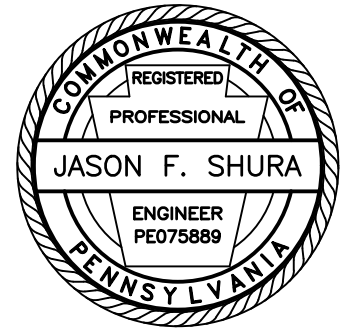
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DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C2



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REPLACEMENT PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

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No.	Date	Description
△		

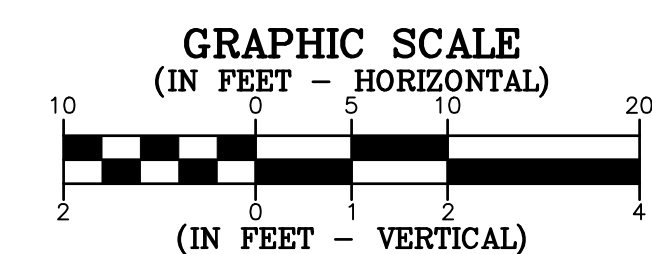
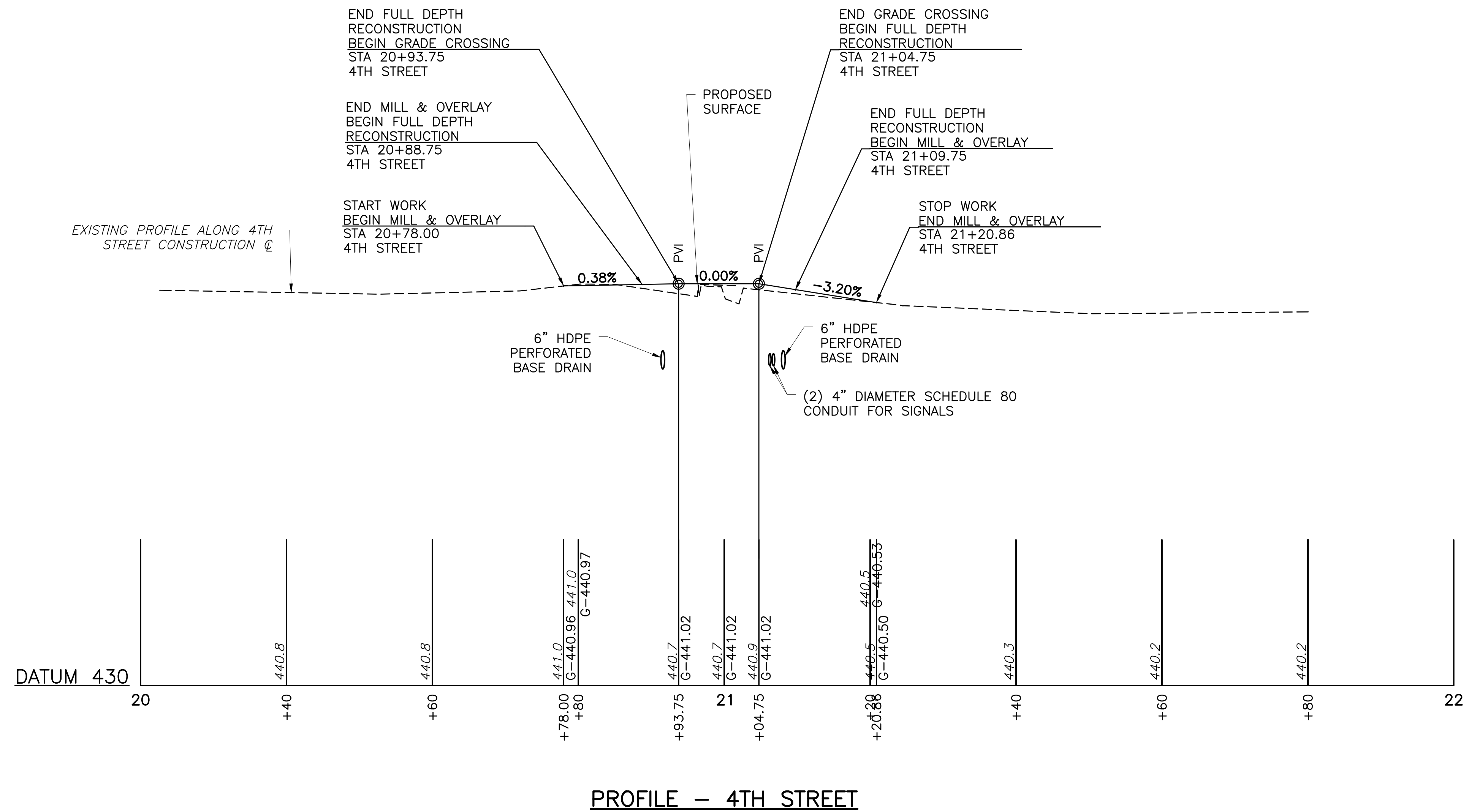
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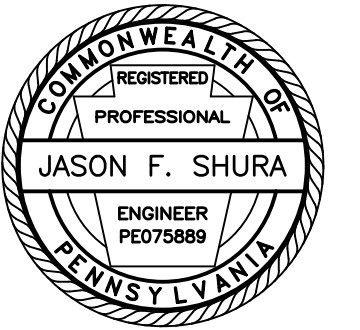
ROAD PROFILE

PROJECT NO. 19-0001.179
DRAWN BY: JDD
DESIGNED BY: JES
CHECKED BY: JES
SCALE: AS SHOWN

Drawing:

C3





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AUTHORITY
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LEWISBURG, PA 17837

Project Name:
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4TH STREET GRADE CROSSING
REPLACEMENT PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

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No.	Date	Description

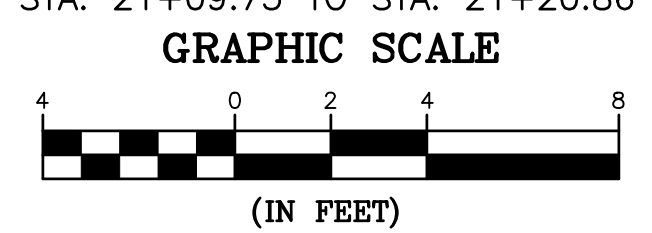
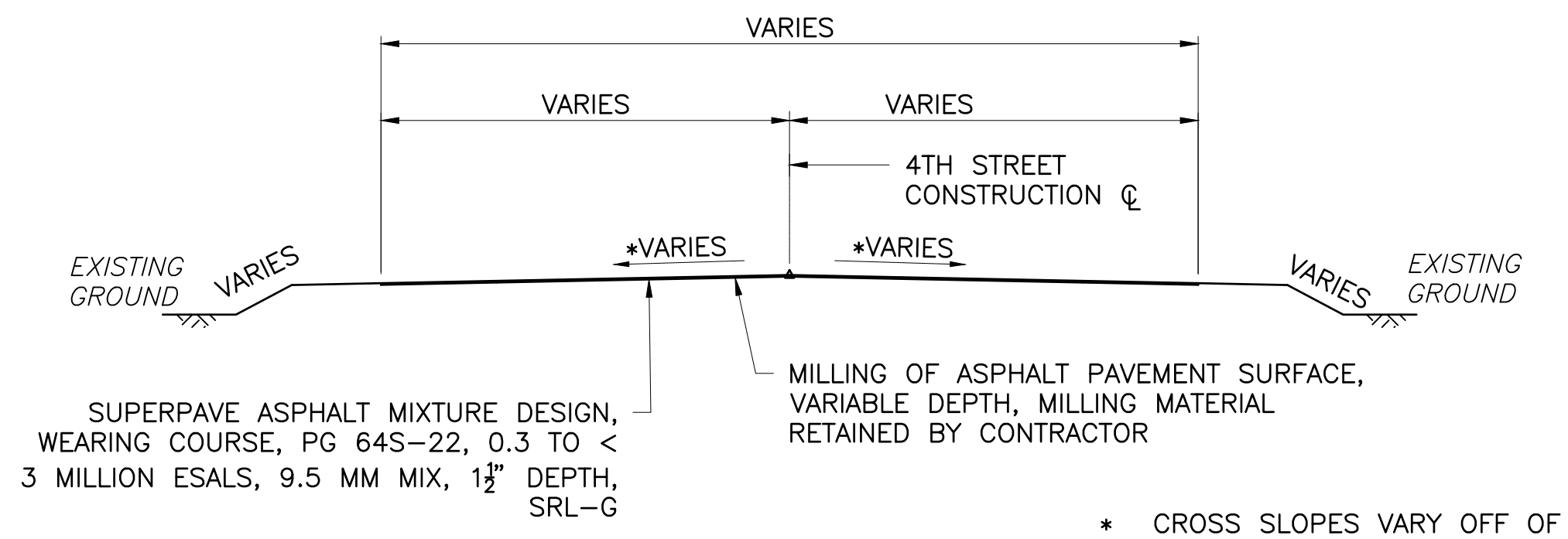
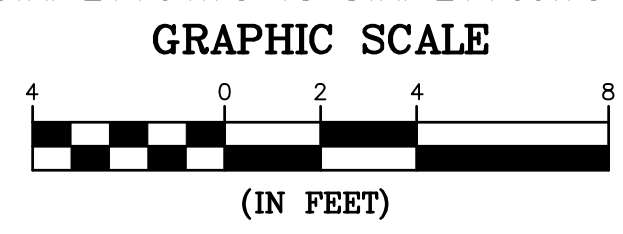
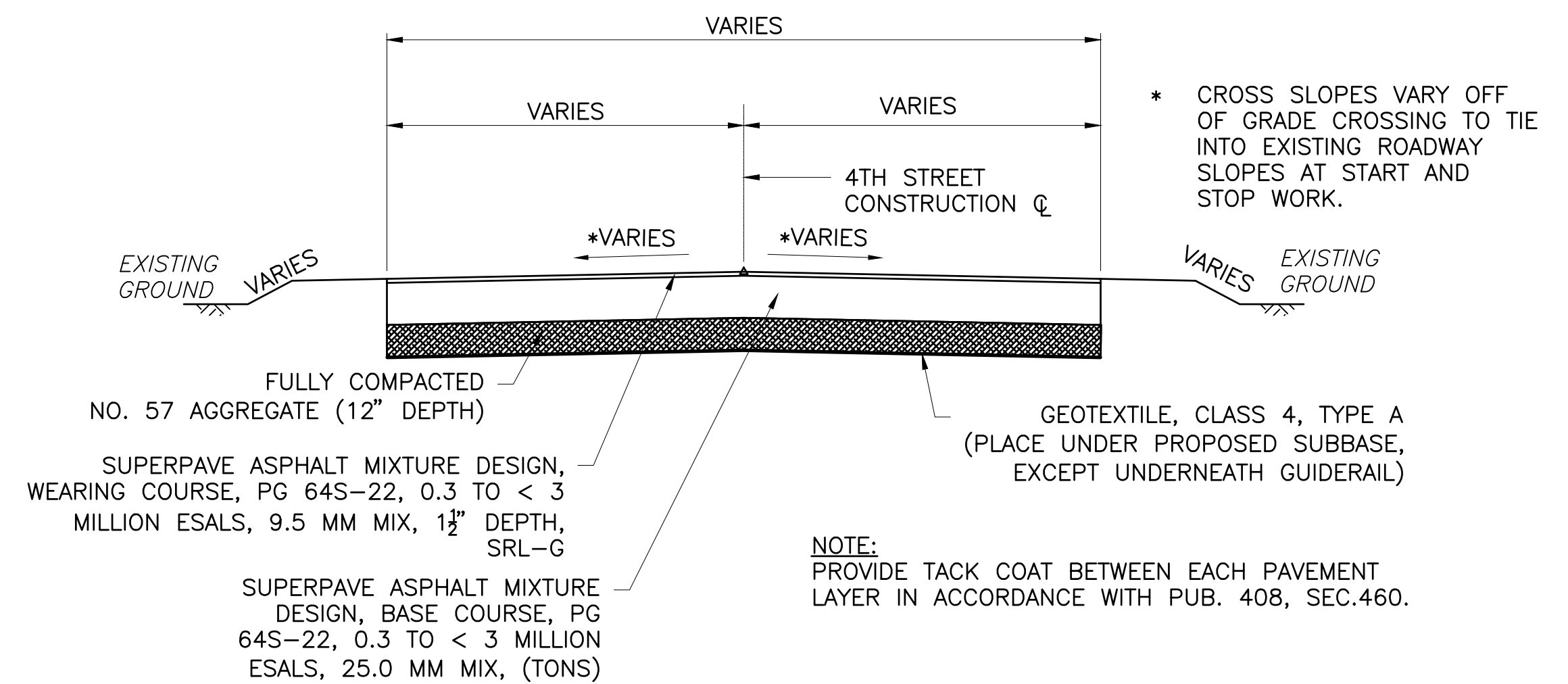
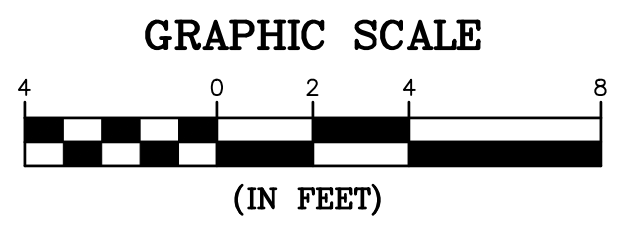
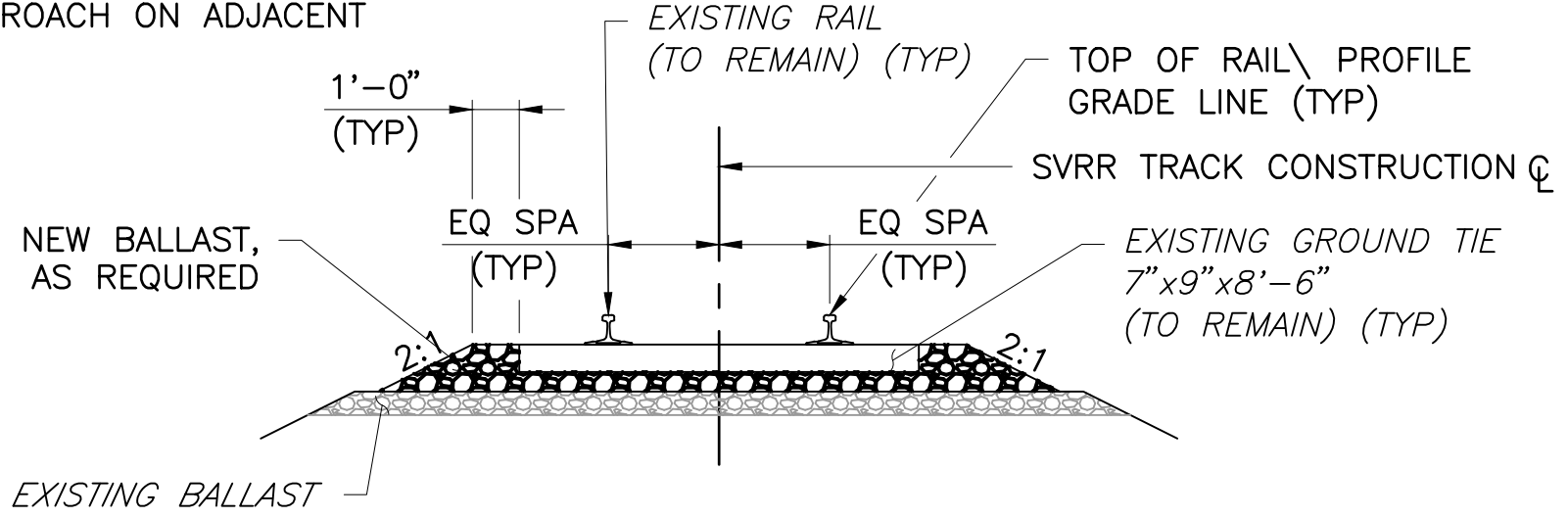
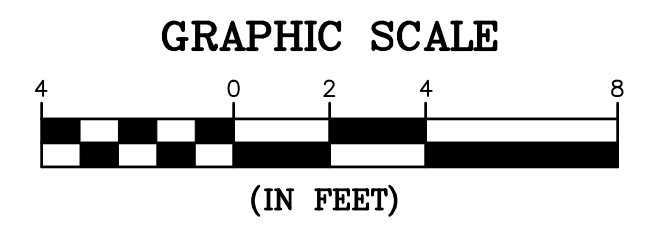
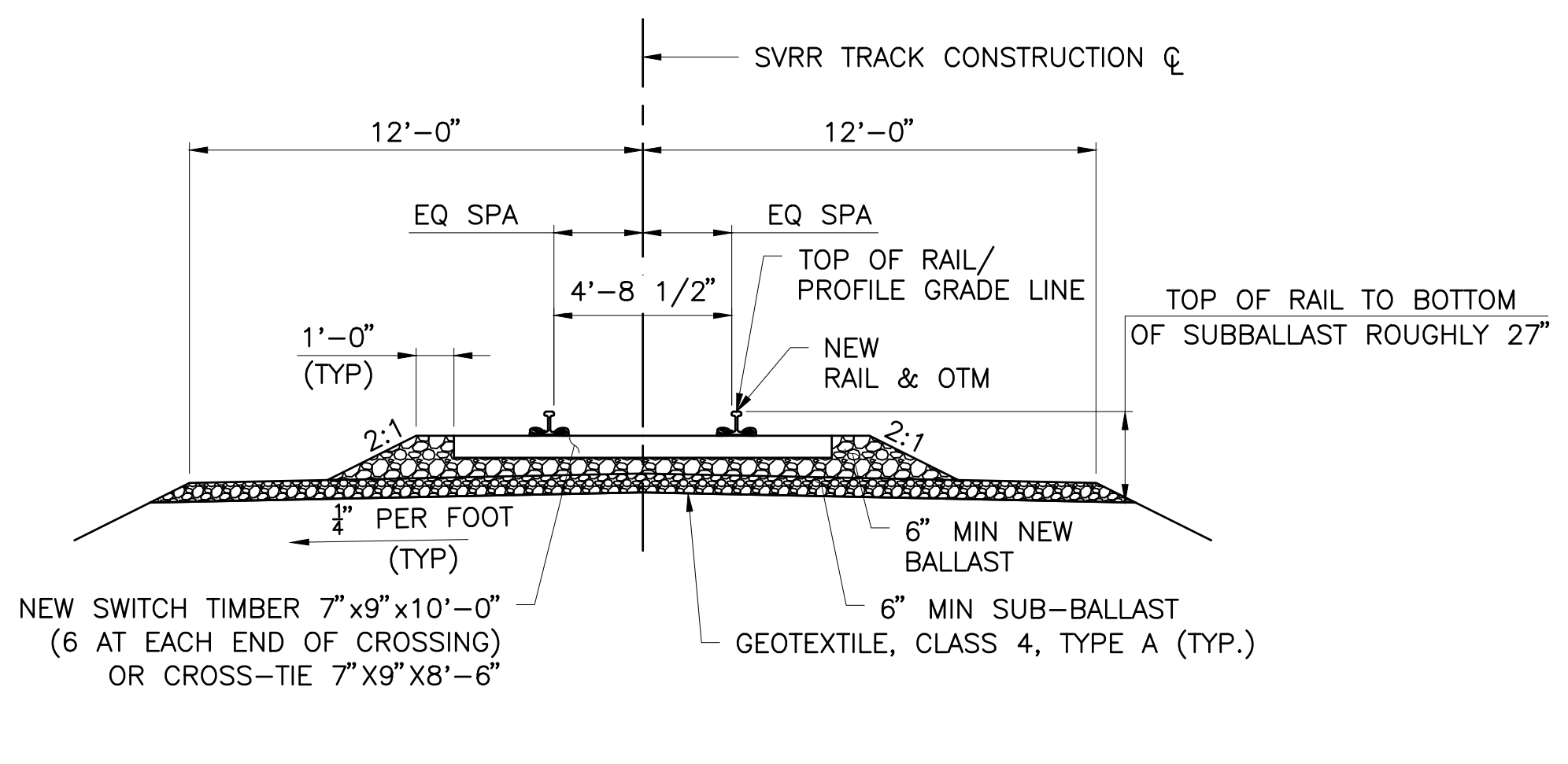
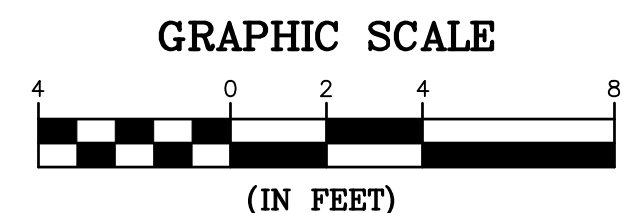
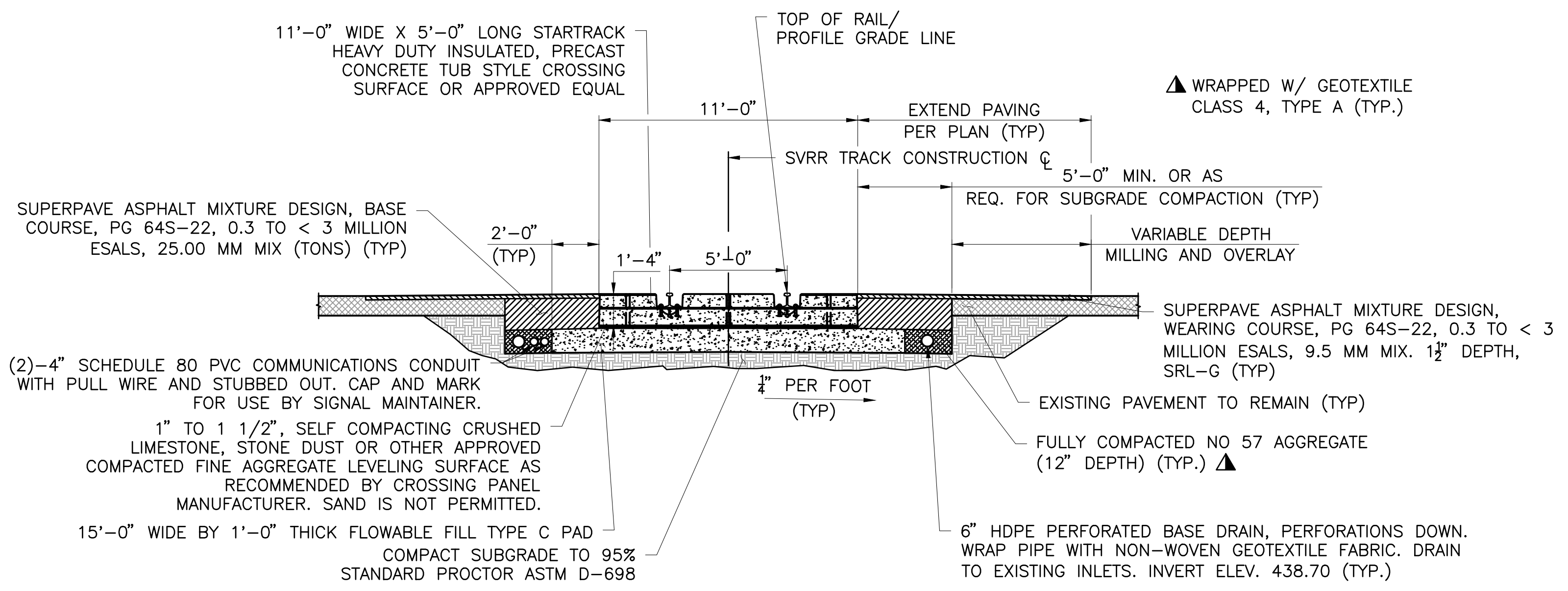
Sheet Title:

TYPICAL SECTIONS

PROJECT NO.	19-0001.179
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C4



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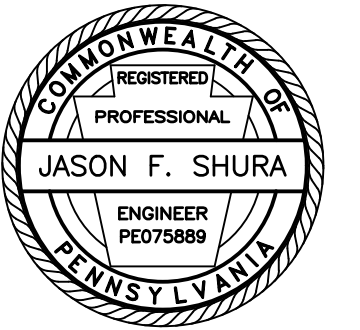
TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9R	30" X 24"	RIGHT DETOUR	4
M4-9S	30" X 24"	STRAIGHT DETOUR	4
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	4
M4-10L	48" X 18"	LEFT DETOUR ARROW	2
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	2
SP-1	30" X 12"	SPECIAL SIGN	12
		PORTABLE CHANGEABLE MESSAGE SIGN	3
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
4TH STREET GRADE CROSSING
REPLACEMENT PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

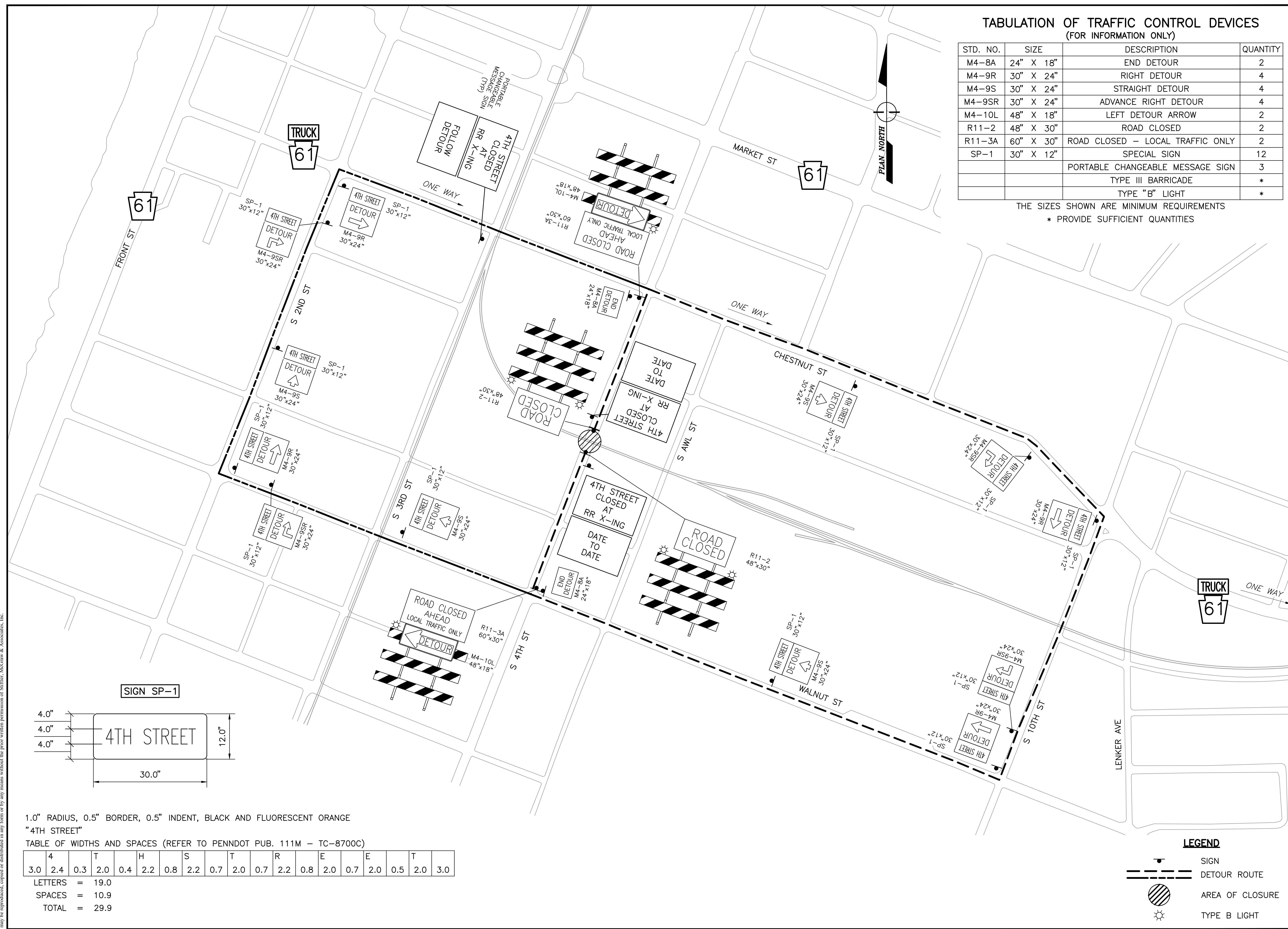
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.179
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	CEB
SCALE:	AS SHOWN

Drawing:

TC1



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"4TH STREET"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

4	T	H	S	T	R	E	E	T	
3.0	2.4	0.3	2.0	0.4	2.2	0.8	2.2	0.7	2.0
0.7	2.0	0.7	2.2	0.8	2.0	0.7	2.0	0.5	2.0
3.0									

LETTERS = 19.0
SPACES = 10.9
TOTAL = 29.9

LEGEND

	SIGN
	DETOUR ROUTE
	AREA OF CLOSURE
	TYPE B LIGHT

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SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD HAAS AVENUE GRADE CROSSING REPLACEMENT PROJECT

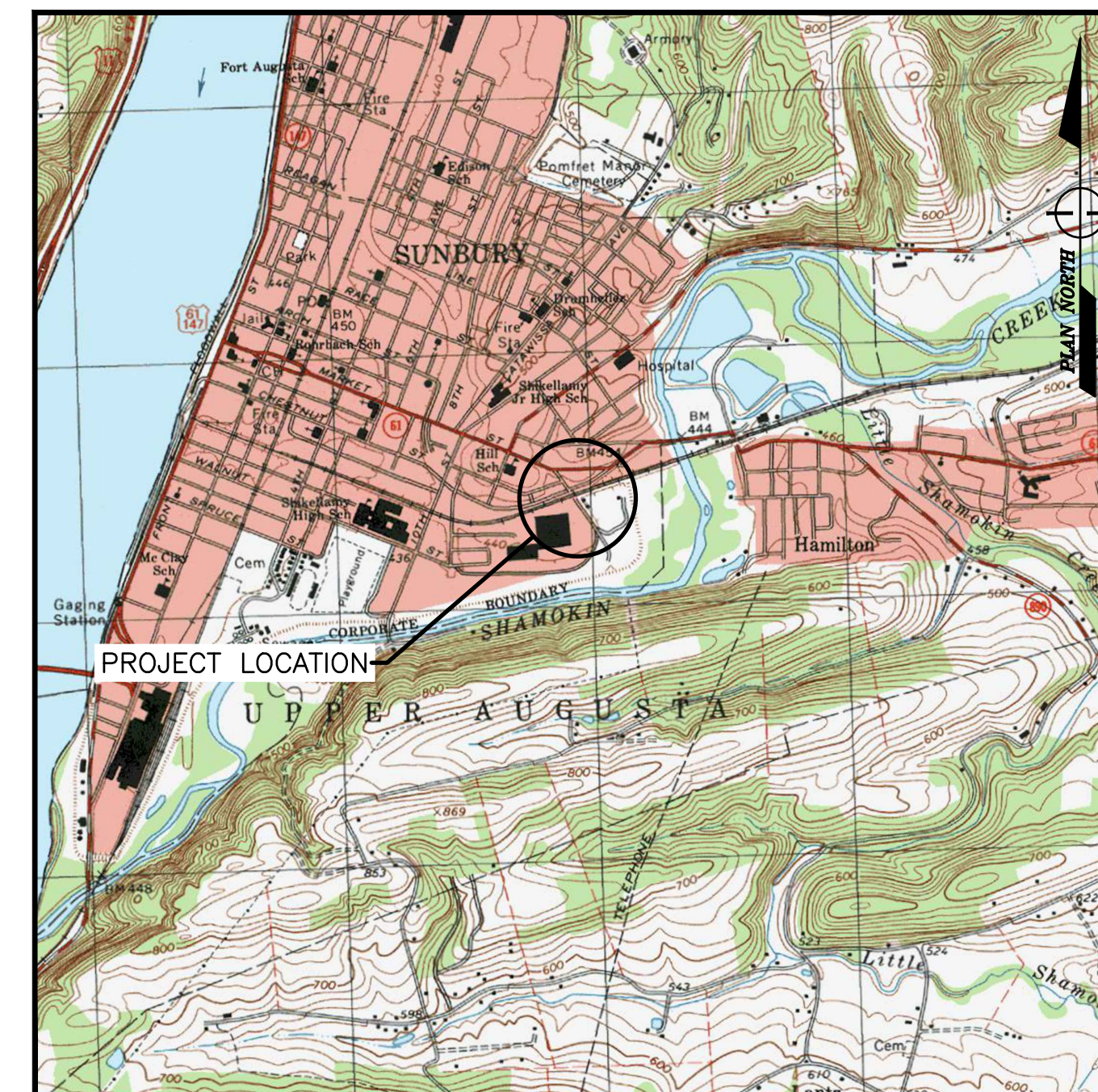
CITY OF SUNBURY, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	ROAD PROFILE
C4	TYPICAL SECTIONS
TC1	DETOUR PLAN

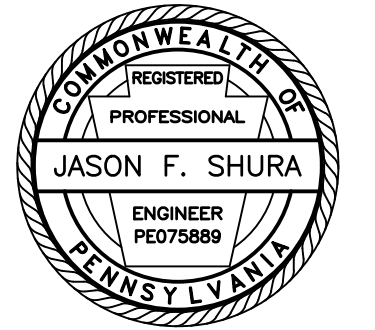


SUNBURY, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP

SCALE: 1" = 2000'



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Hollidaysburg, PA 16648
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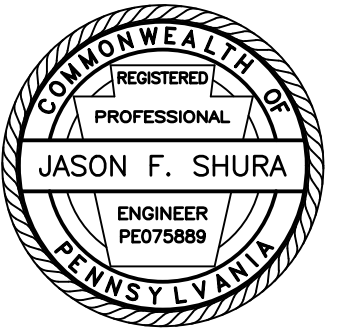
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.181
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



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LEWISBURG, PA 17837

Project Name:
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HAAS AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02
CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
1		

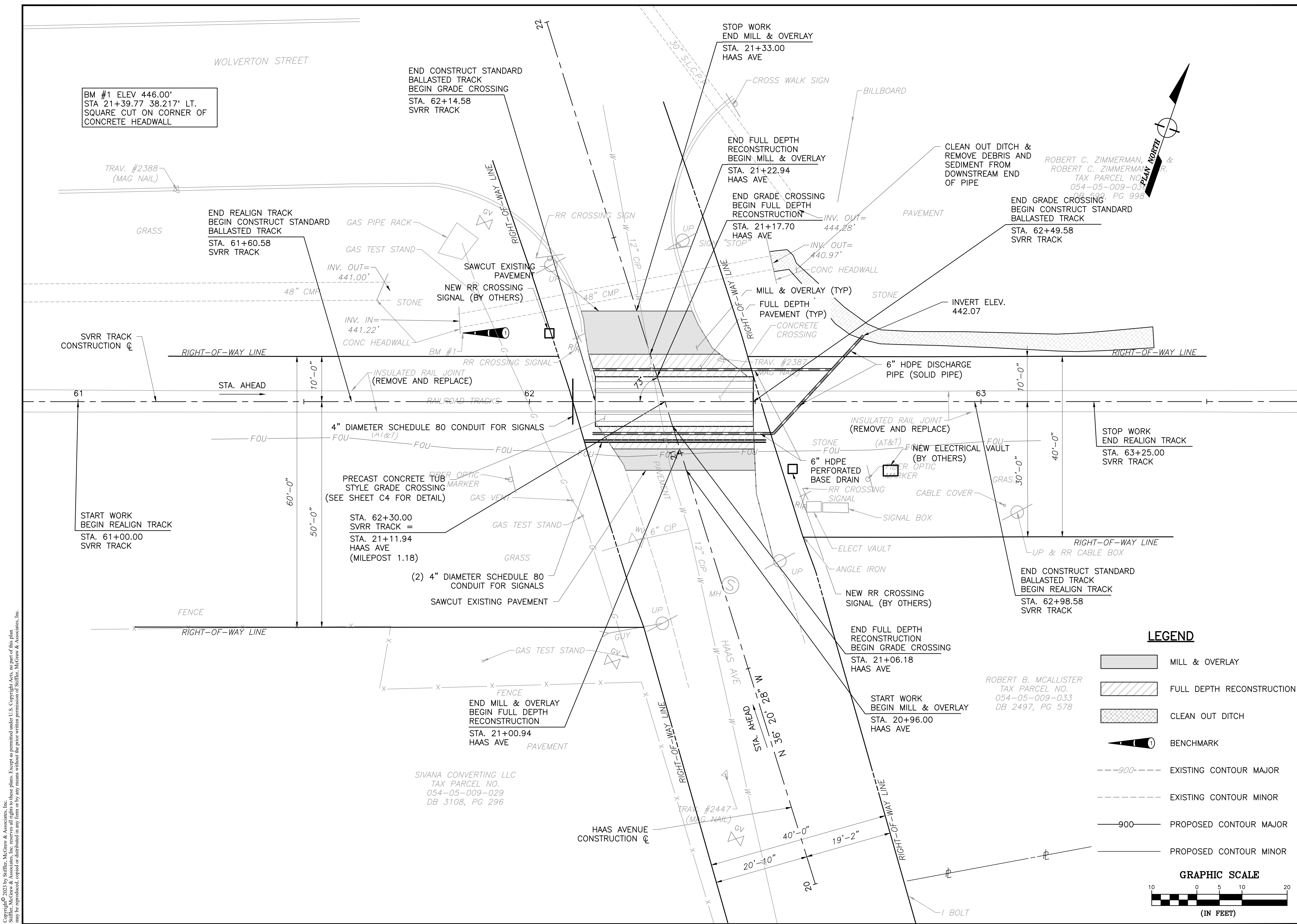
Sheet Title:

SITE PLAN

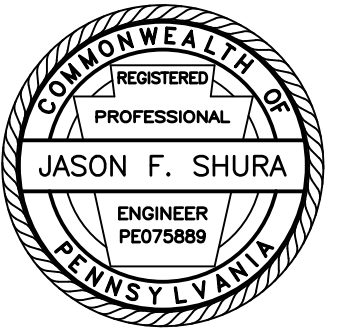
PROJECT NO.	19-0001.181
DRAWN BY:	JDD
DESIGNED BY:	JES
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SCALE:	AS SHOWN

Drawing:

C1



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HAAS AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

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△		

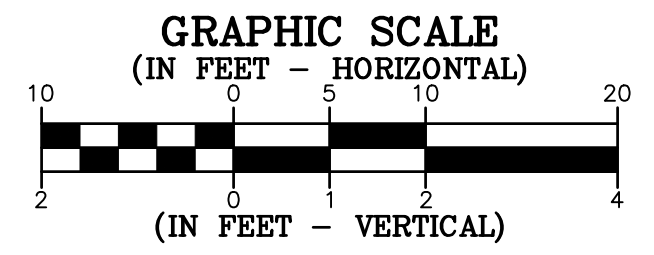
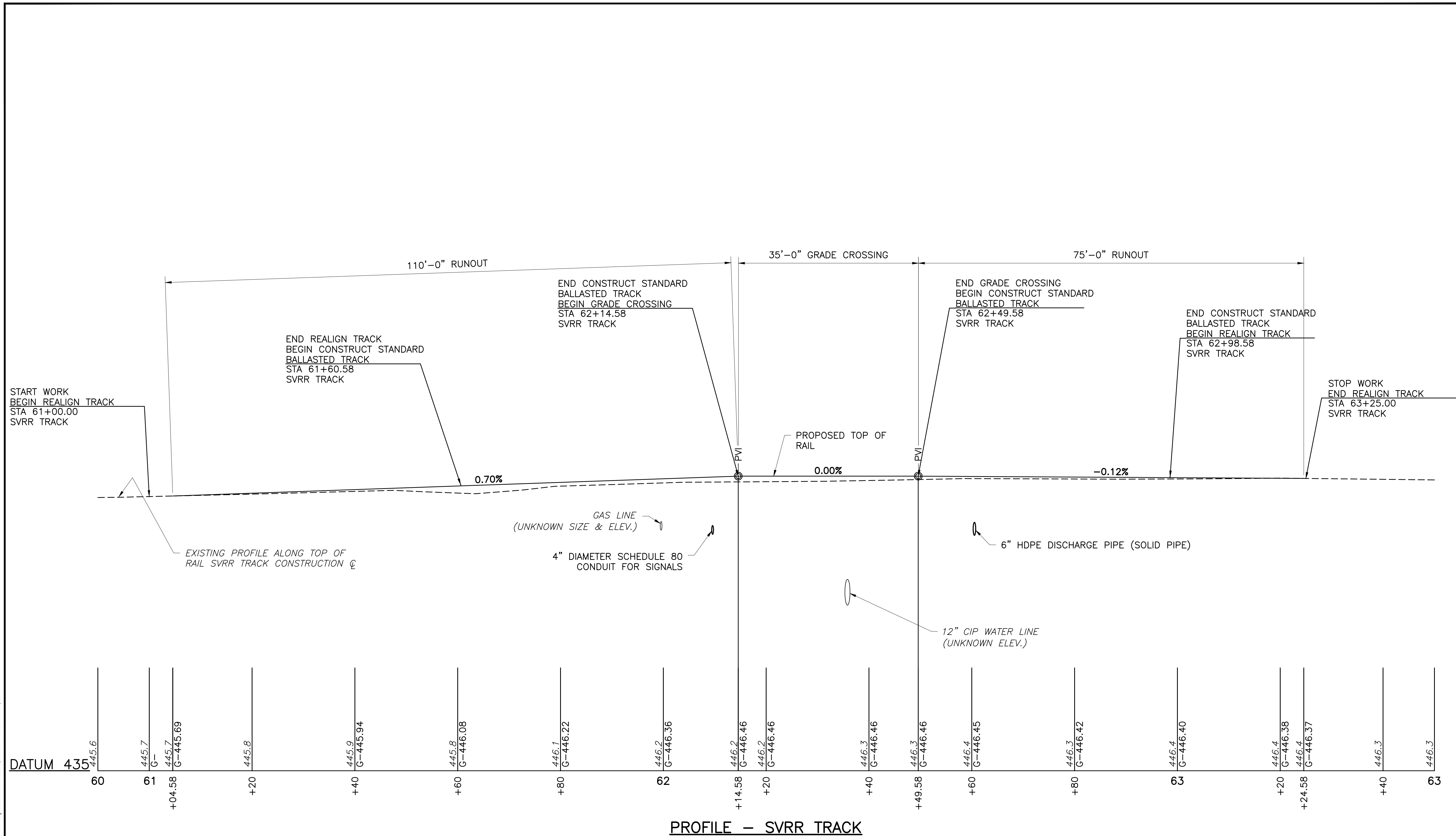
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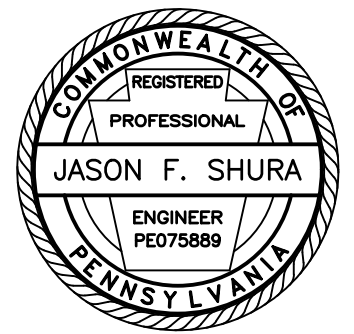
PROJECT NO.	19-0001.181
DRAWN BY:	JDD
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Drawing:

C2



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HAAS AVENUE GRADE
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PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

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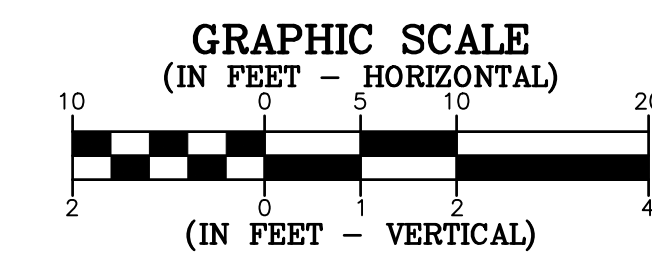
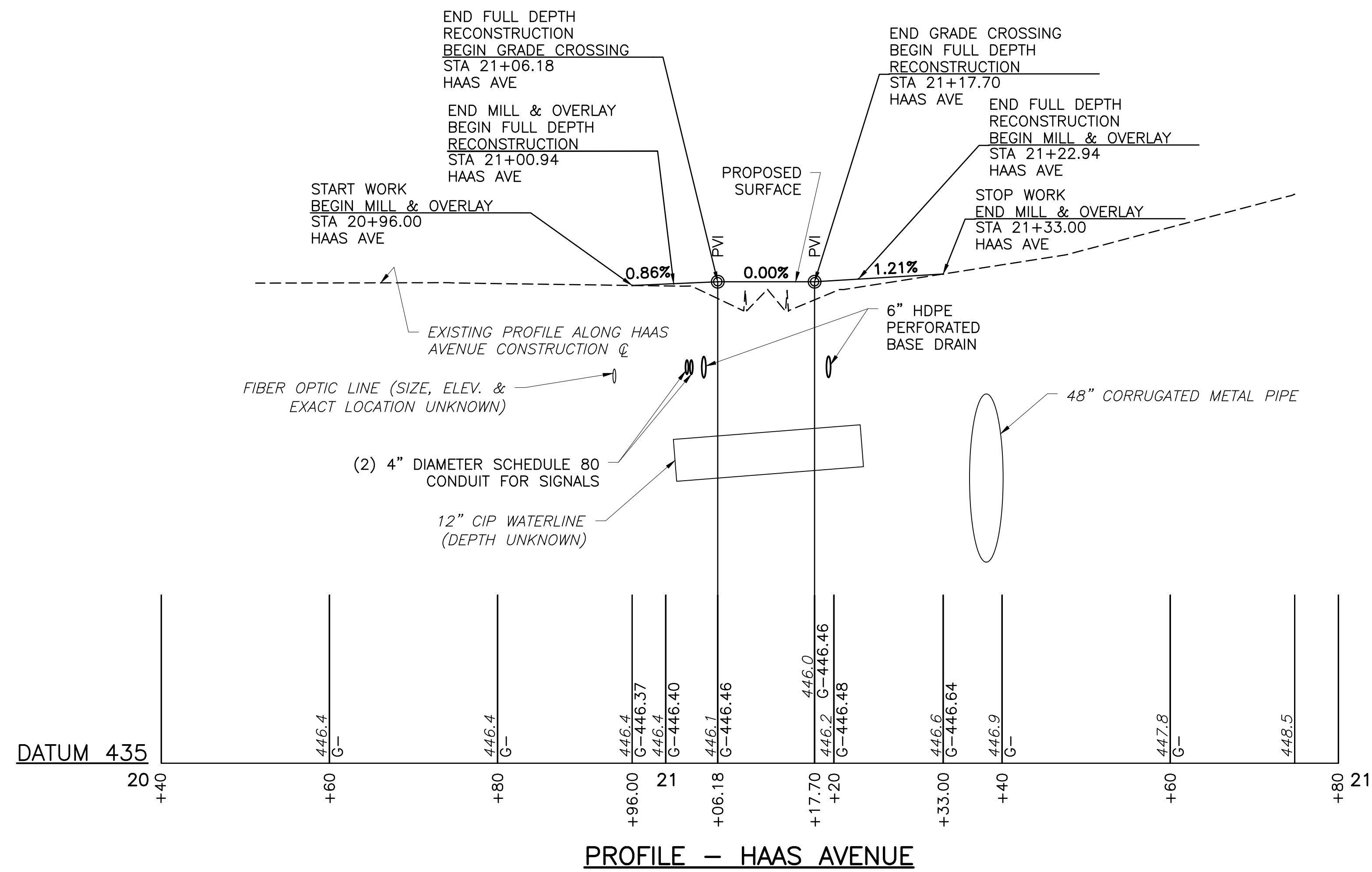
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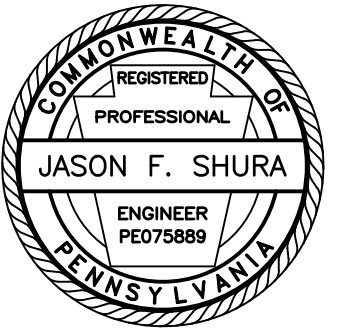
ROAD PROFILE

PROJECT NO.	19-0001.181
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C3





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LEWISBURG, PA 17837

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HAAS AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

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NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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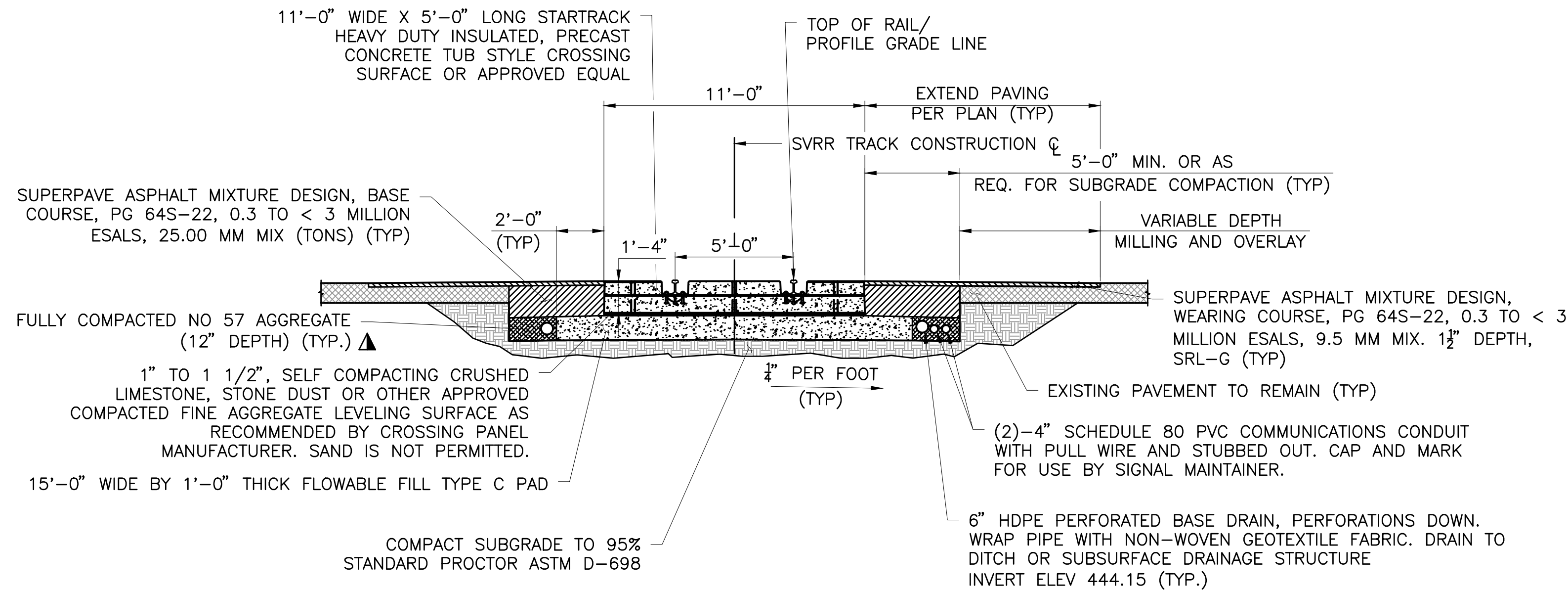
Sheet Title:

TYPICAL SECTIONS

PROJECT NO.	19-0001.181
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

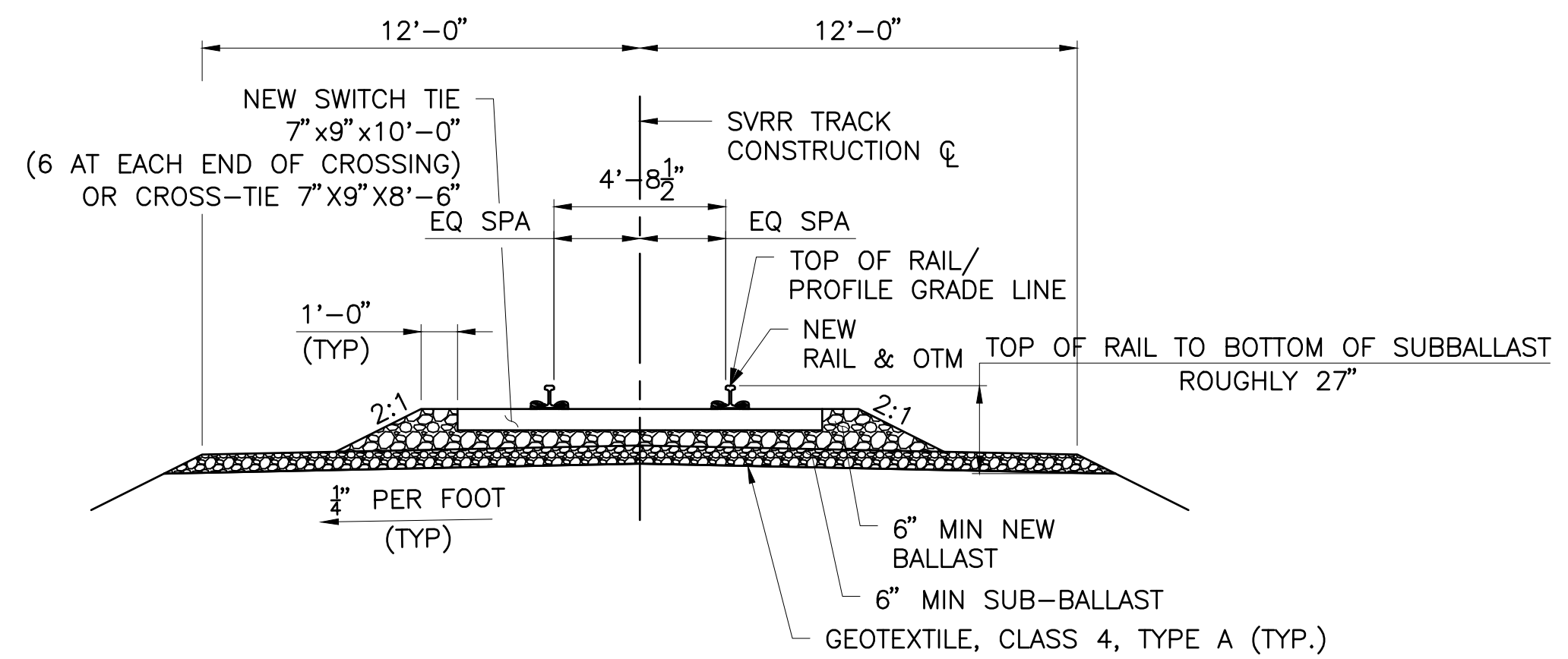
Drawing:

C4



TYPICAL PRECAST CONCRETE TUB STYLE GRADE CROSSING SECTION

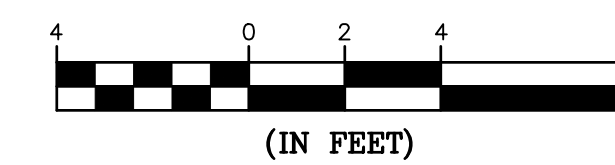
STA. 62+14.58 TO STA. 62+49.58



TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

STA. 61+60.58 TO STA. 62+14.58
STA. 62+49.58 TO STA. 62+98.58

GRAPHIC SCALE

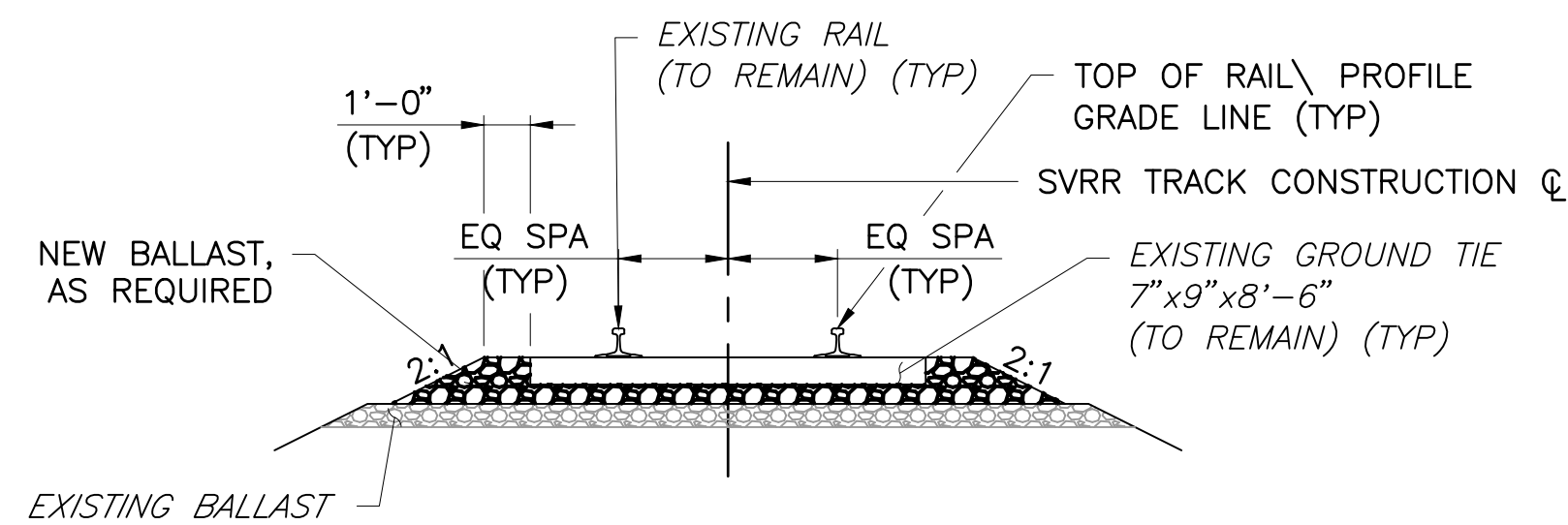
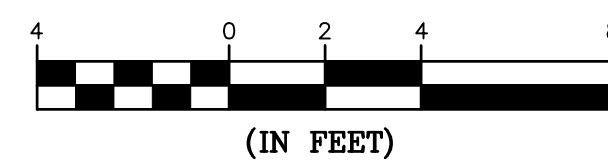


▲ WRAPPED W/ GEOTEXTILE CLASS 4, TYPE A (TYP.)

NOTES:

1. FLOWABLE FILL PAD SHALL EXTEND AT LEAST 1'-0" LONGITUDINALLY BEYOND END OF CROSSING PANELS IN EACH DIRECTION. LIMIT EXTENSION OF PAD SO AS NOT TO ENCR OACH ON ADJACENT APPROACHING STANDARD TIE AND BALLASTED TRACK STRUCTURE.

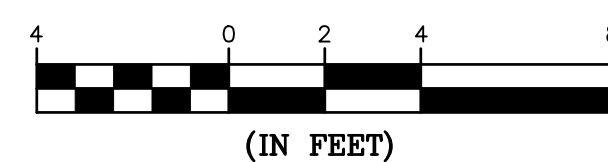
GRAPHIC SCALE



TYPICAL SECTION - REALIGN TRACK

STA. 61+00.00 TO STA. 61+60.58
STA. 62+98.58 TO STA. 63+25.00

GRAPHIC SCALE



CRIMP AROUND OUTLET END OF PIPE AND SECURE TO PIPE WITH GALVANIZED STEEL WIRE OR OTHER ACCEPTABLE FASTENING METHODS

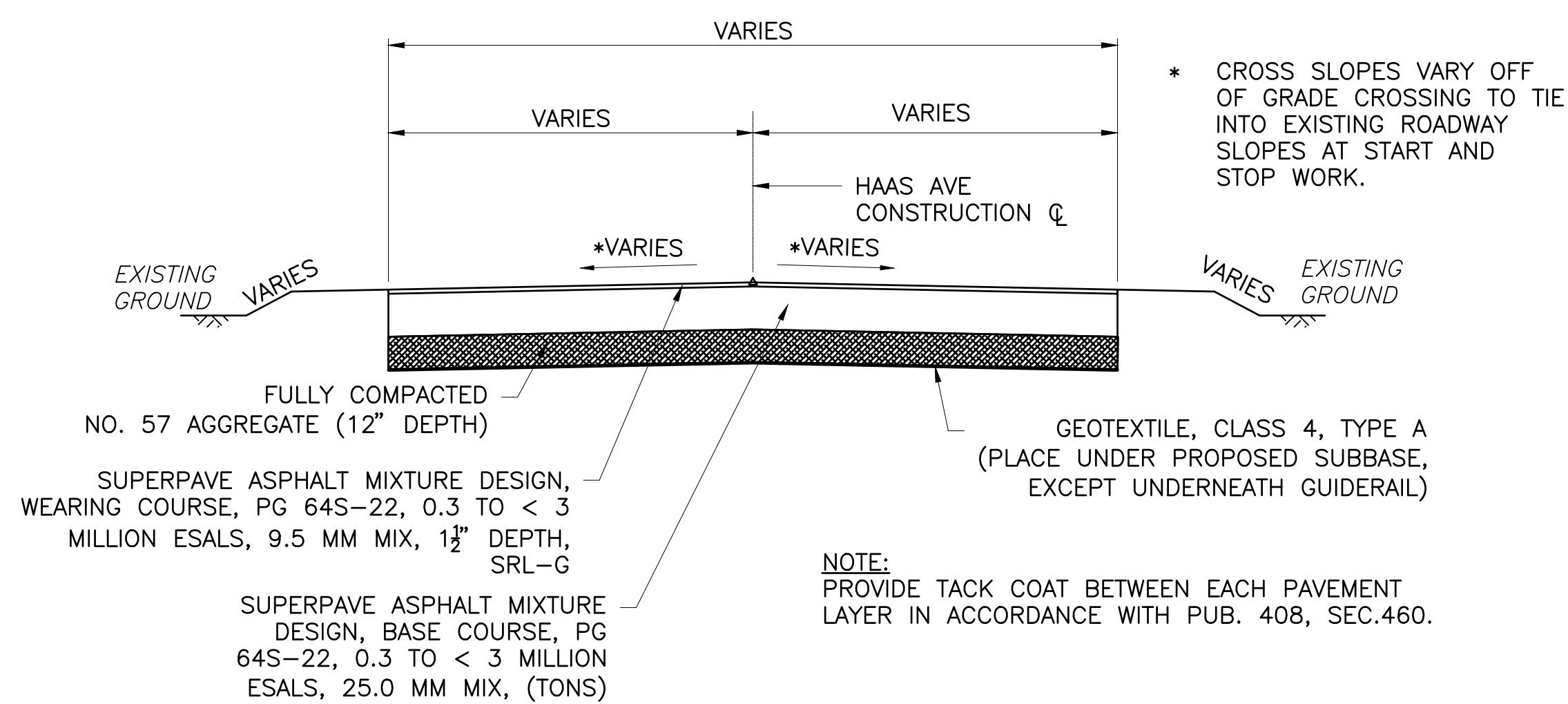
3/4" x 3/4" WIRE MESH SCREENING, 12 GAGE MINIMUM, GALVANIZED AFTER WEAVING

6" STRUCTURE FOUNDATION DRAIN

OUTLET PROTECTION DETAIL

WIRE MESH SHIELD

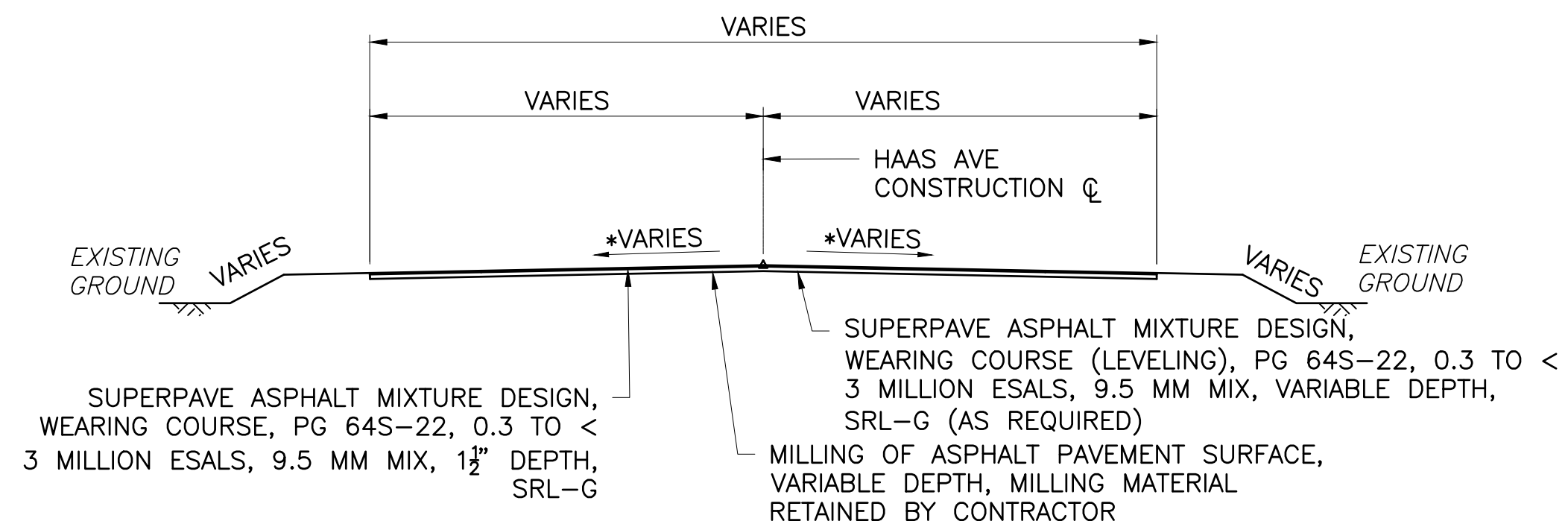
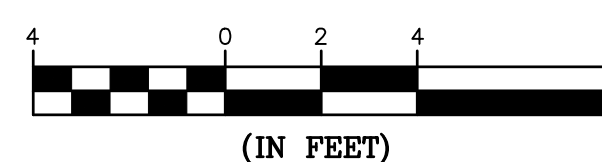
NOT TO SCALE



TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 21+00.94 TO STA. 21+06.18
STA. 21+17.70 TO STA. 21+22.94

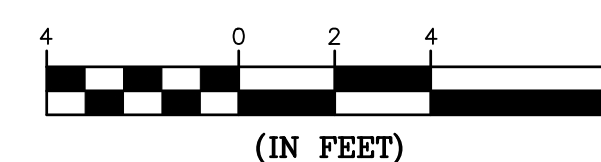
GRAPHIC SCALE



TYPICAL MILL & OVERLAY SECTION

STA. 20+96.00 TO STA. 21+00.94
STA. 21+22.94 TO STA. 21+33.00

GRAPHIC SCALE



* CROSS SLOPES VARY OFF OF GRADE CROSSING TO TIE INTO EXISTING ROADWAY SLOPES AT START AND STOP WORK.



Stiffler, McGraw & Associates, Inc.

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201 FURNACE ROAD
LEWISBURG, PA 17837

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HAAS AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETOUR PLAN

PROJECT NO. 19-0001.181

DRAWN BY: AMG

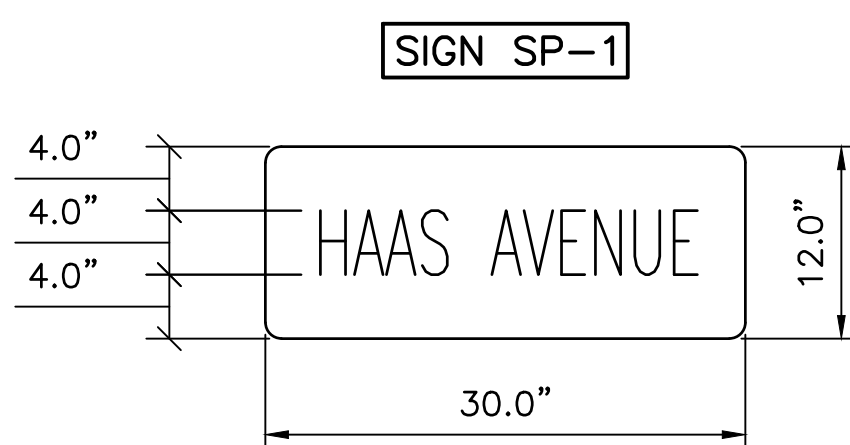
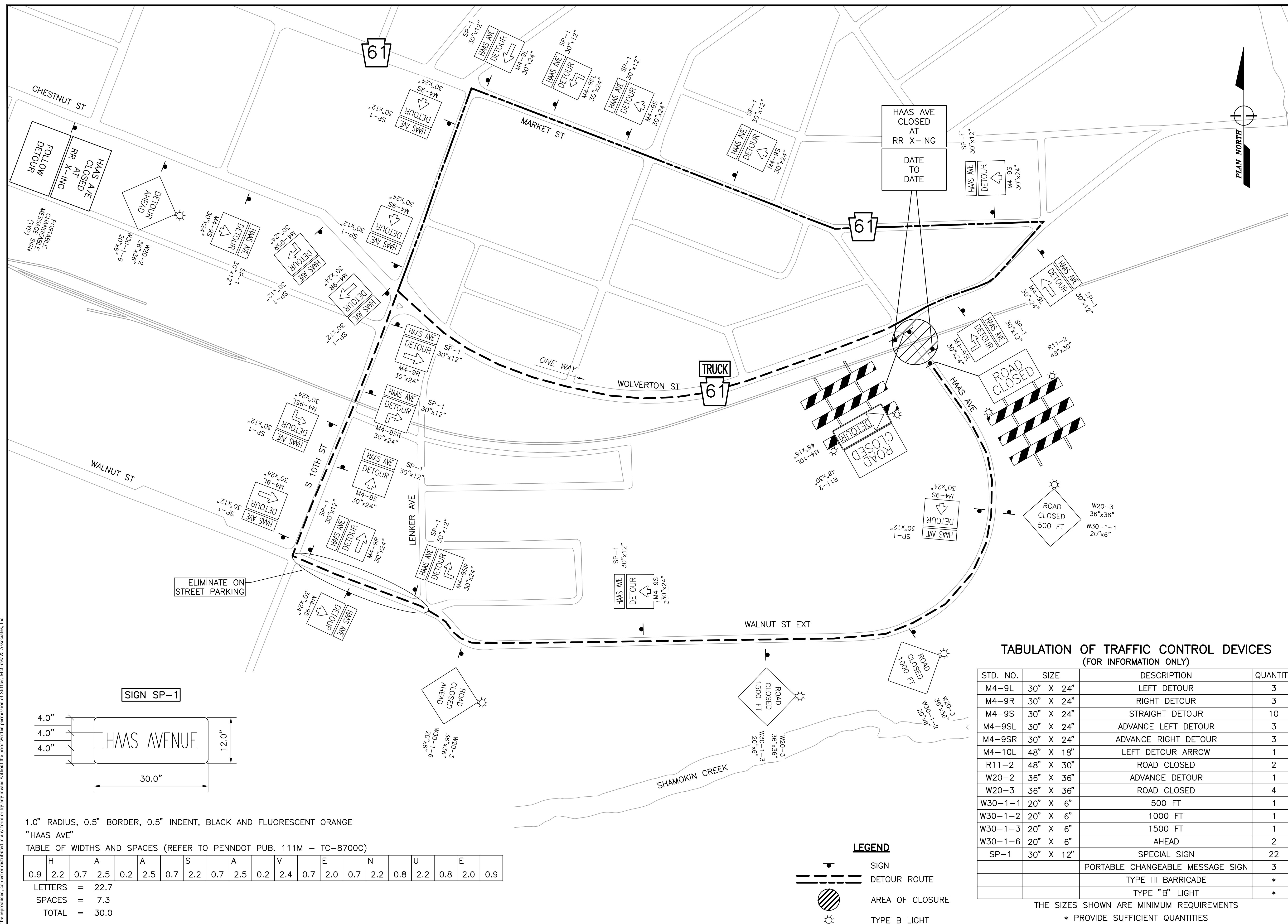
DESIGNED BY: JES

CHECKED BY: CEB

SCALE: AS SHOWN

Drawing:

TC1



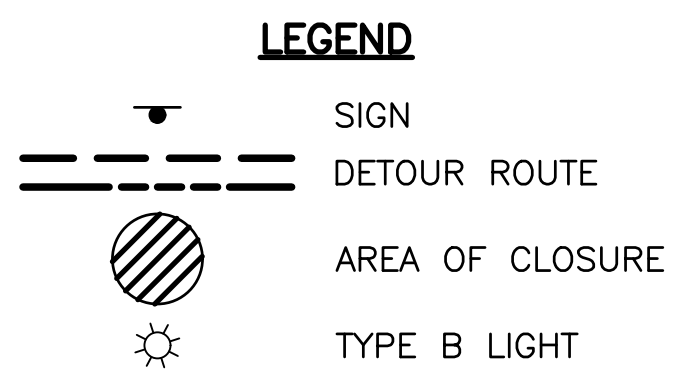
1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"HAAS AVE"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

H	A	A	S	A	V	E	N	U	E												
0.9	2.2	0.7	2.5	0.2	2.5	0.7	2.2	0.7	2.5	0.2	2.4	0.7	2.0	0.7	N	2.2	0.8	2.2	0.8	2.0	0.9
LETTERS = 22.7																					
SPACES = 7.3																					
TOTAL = 30.0																					

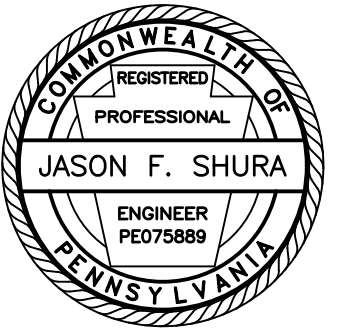
TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-9L	30" X 24"	LEFT DETOUR	3
M4-9R	30" X 24"	RIGHT DETOUR	3
M4-9S	30" X 24"	STRAIGHT DETOUR	10
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	3
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	3
M4-10L	48" X 18"	LEFT DETOUR ARROW	1
R11-2	48" X 30"	ROAD CLOSED	2
W20-2	36" X 36"	ADVANCE DETOUR	1
W20-3	36" X 36"	ROAD CLOSED	4
W30-1-1	20" X 6"	500 FT	1
W30-1-2	20" X 6"	1000 FT	1
W30-1-3	20" X 6"	1500 FT	1
W30-1-6	20" X 6"	AHEAD	2
SP-1	30" X 12"	SPECIAL SIGN	22
		PORTABLE CHANGEABLE MESSAGE SIGN	3
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*



THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES

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SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD JOHN S ESTATE ROAD GRADE CROSSING REPLACEMENT PROJECT

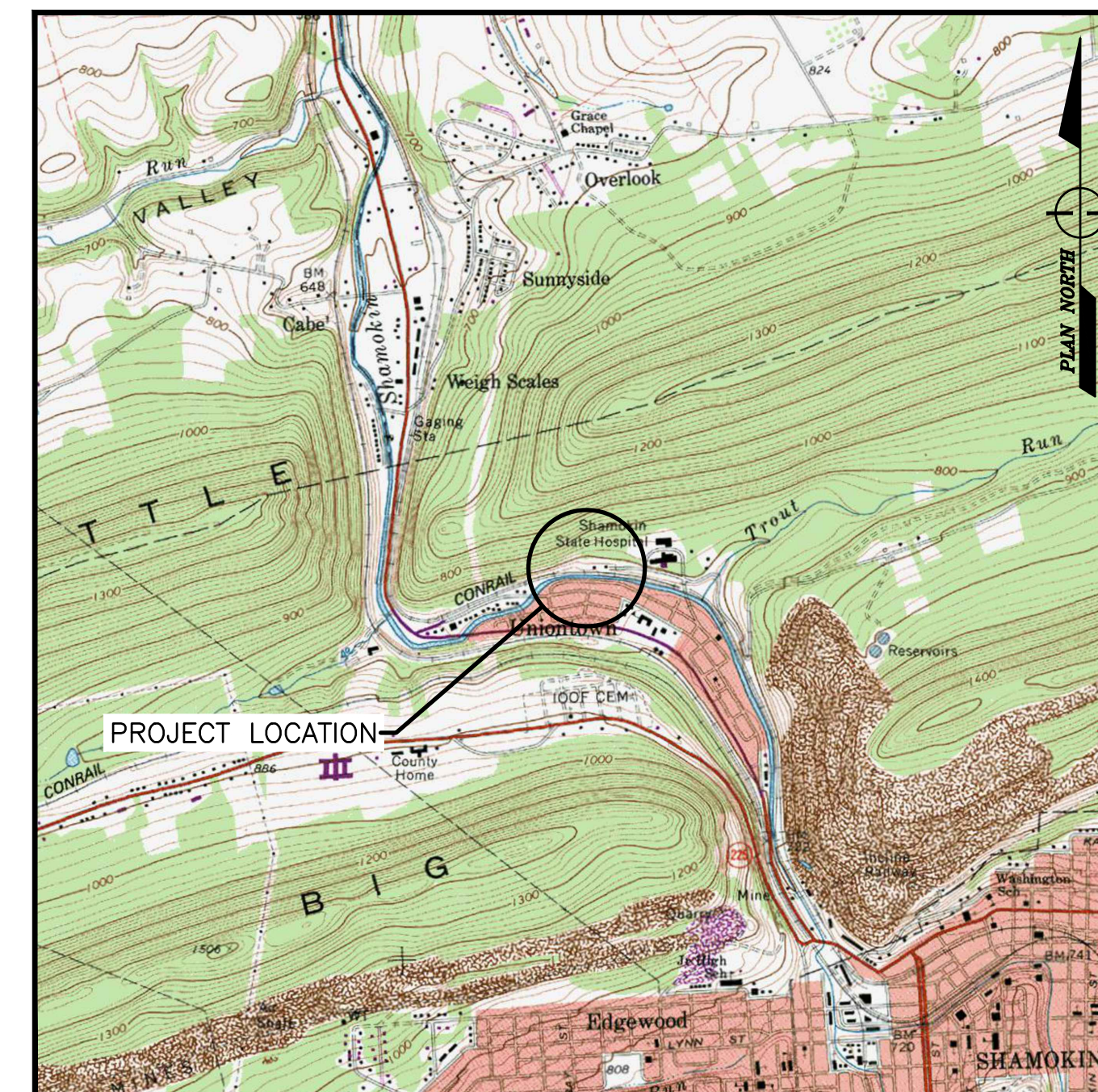
COAL TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	ROAD PROFILE
C4	TYPICAL SECTIONS
C5	DETAILS
TC1	DETOUR PLAN



COAL TOWNSHIP, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP
SCALE: 1" = 2000'

Revisions:

No.	Date	Description
△		

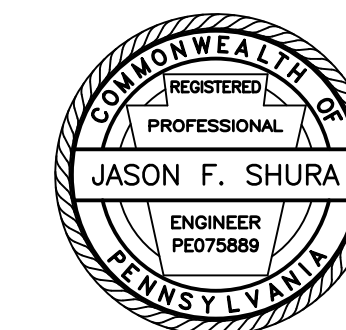
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.185
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

SITE PLAN

PROJECT NO. 19-0001.185

DRAWN BY: BRB

DESIGNED BY: JES

CHECKED BY: JES

SCALE: AS SHOWN

Drawing:

C1

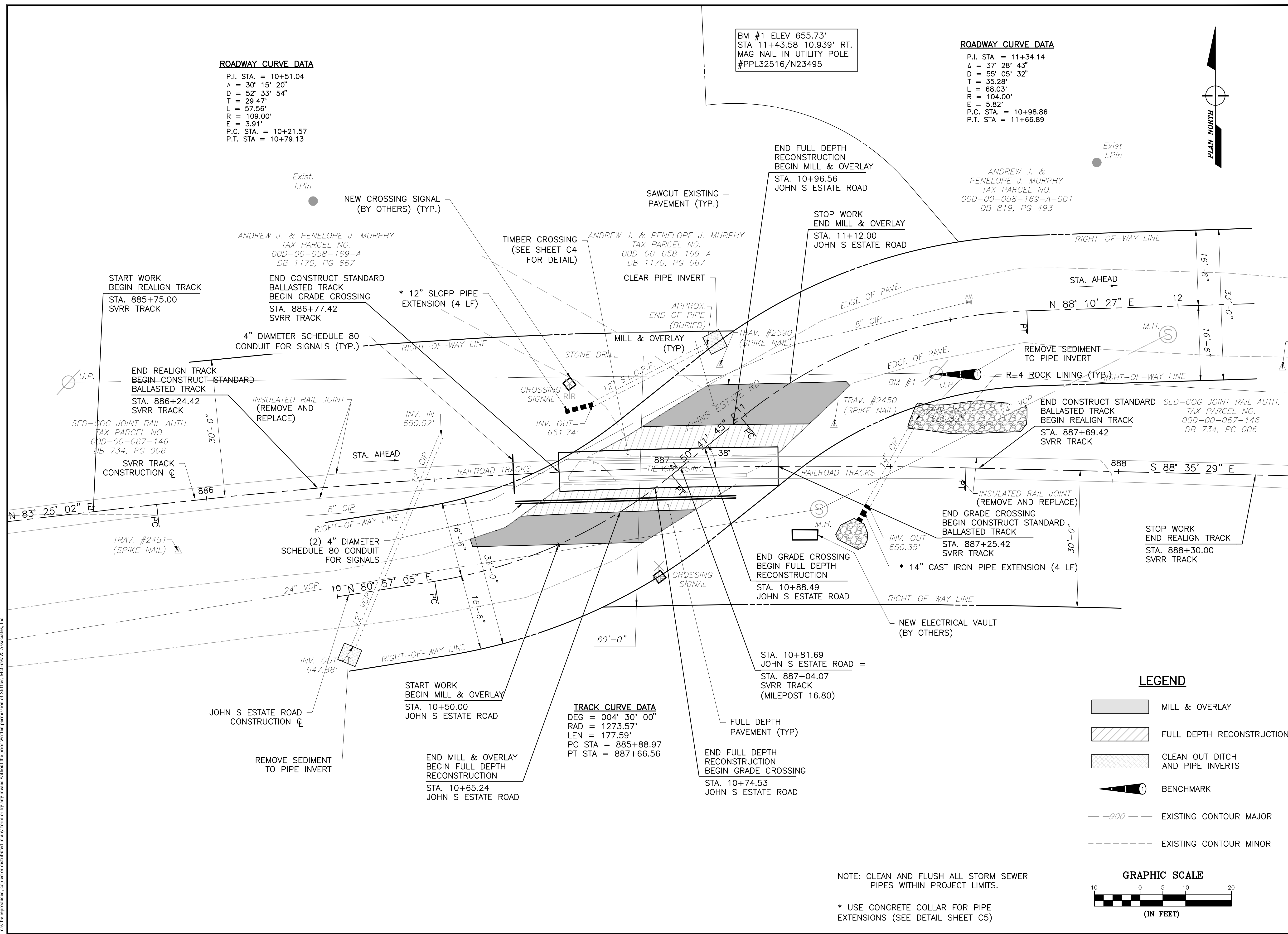
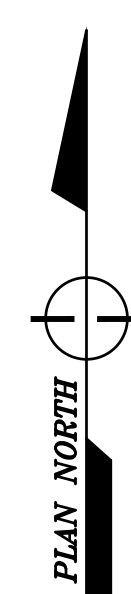
ROADWAY CURVE DATA

P.I. STA. = 10+51.04
Δ = 30° 15' 20"
D = 52' 33' 54"
T = 29.47'
L = 57.56'
R = 109.00'
E = 3.91'
P.C. STA. = 10+21.57
P.T. STA. = 10+79.13

BM #1 ELEV 655.73'
STA 11+43.58 10.939' RT.
MAG NAIL IN UTILITY POLE
#PPL32516/N23495

ROADWAY CURVE DATA

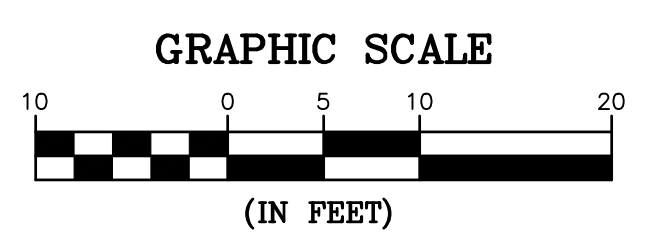
P.I. STA. = 11+34.14
Δ = 37° 28' 43"
D = 55° 05' 32"
T = 35.28'
L = 68.03'
R = 104.00'
E = 5.82'
P.C. STA. = 10+98.86
P.T. STA. = 11+66.89



TRACK CURVE DATA
DEG = 004° 30' 00"
RAD = 1273.57'
LEN = 177.59'
PC STA = 885+88.97
PT STA = 887+66.56

LEGEND

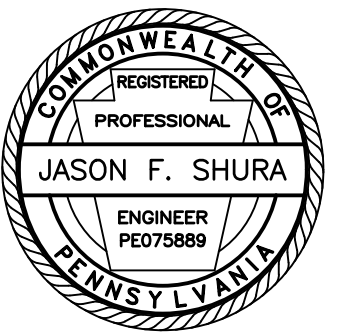
- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- CLEAN OUT DITCH AND PIPE INVERTS
- BENCHMARK
- 900- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR



NOTE: CLEAN AND FLUSH ALL STORM SEWER PIPES WITHIN PROJECT LIMITS.

* USE CONCRETE COLLAR FOR PIPE EXTENSIONS (SEE DETAIL SHEET C5)

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Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

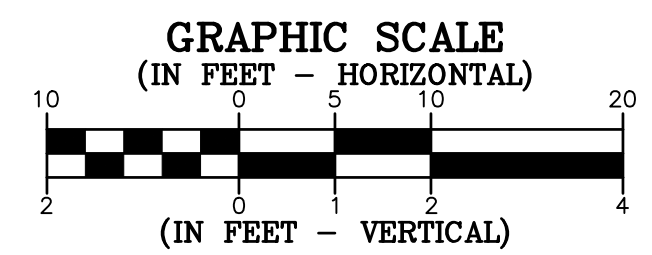
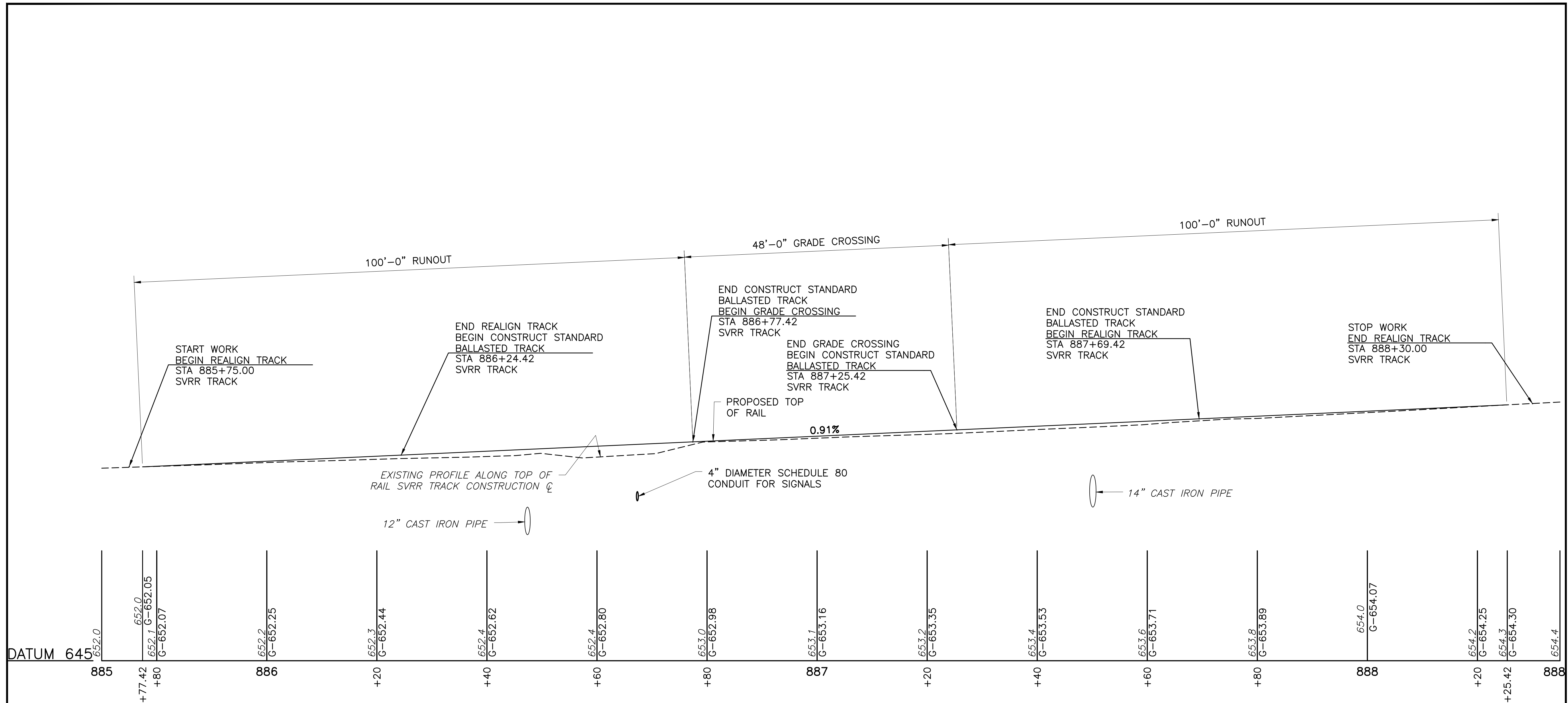
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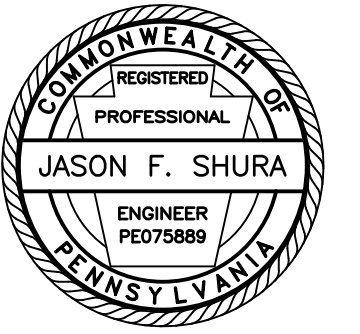
TRACK PROFILE

PROJECT NO. 19-0001.185
DRAWN BY: BRB
DESIGNED BY: JES
CHECKED BY: JES
SCALE: AS SHOWN

Drawing:

C2





Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

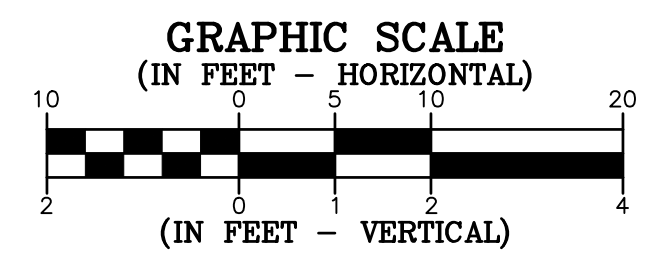
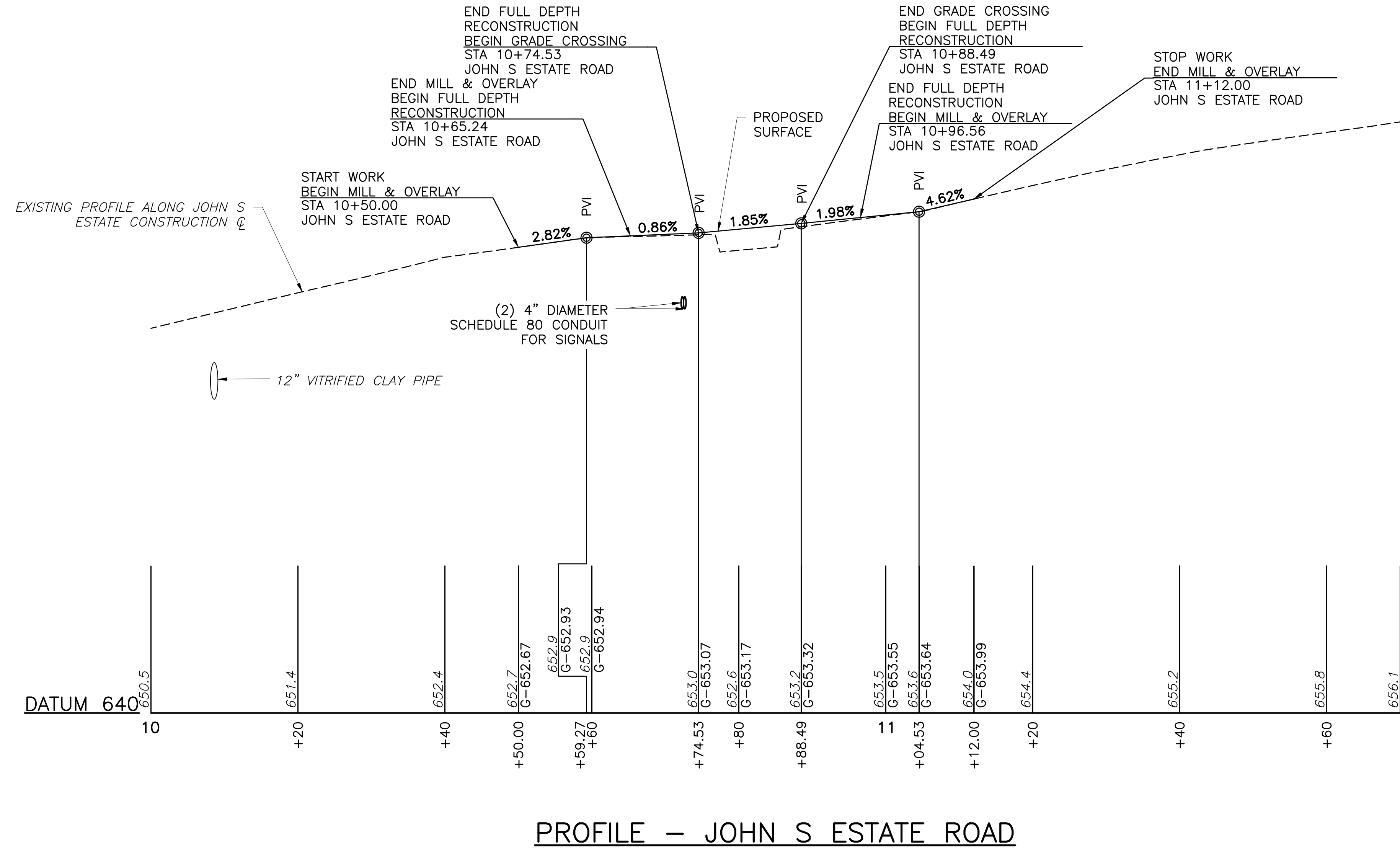
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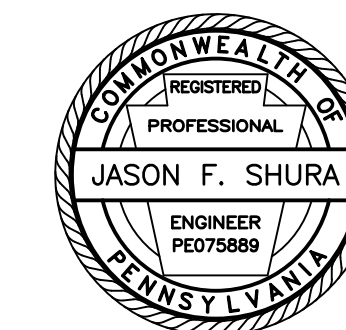
ROAD PROFILE

PROJECT NO. 19-0001.185
DRAWN BY: BRB
DESIGNED BY: JES
CHECKED BY: JES
SCALE: AS SHOWN

Drawing:

C3





Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

TYPICAL SECTIONS

PROJECT NO. 19-0001.185

DRAWN BY: BRB

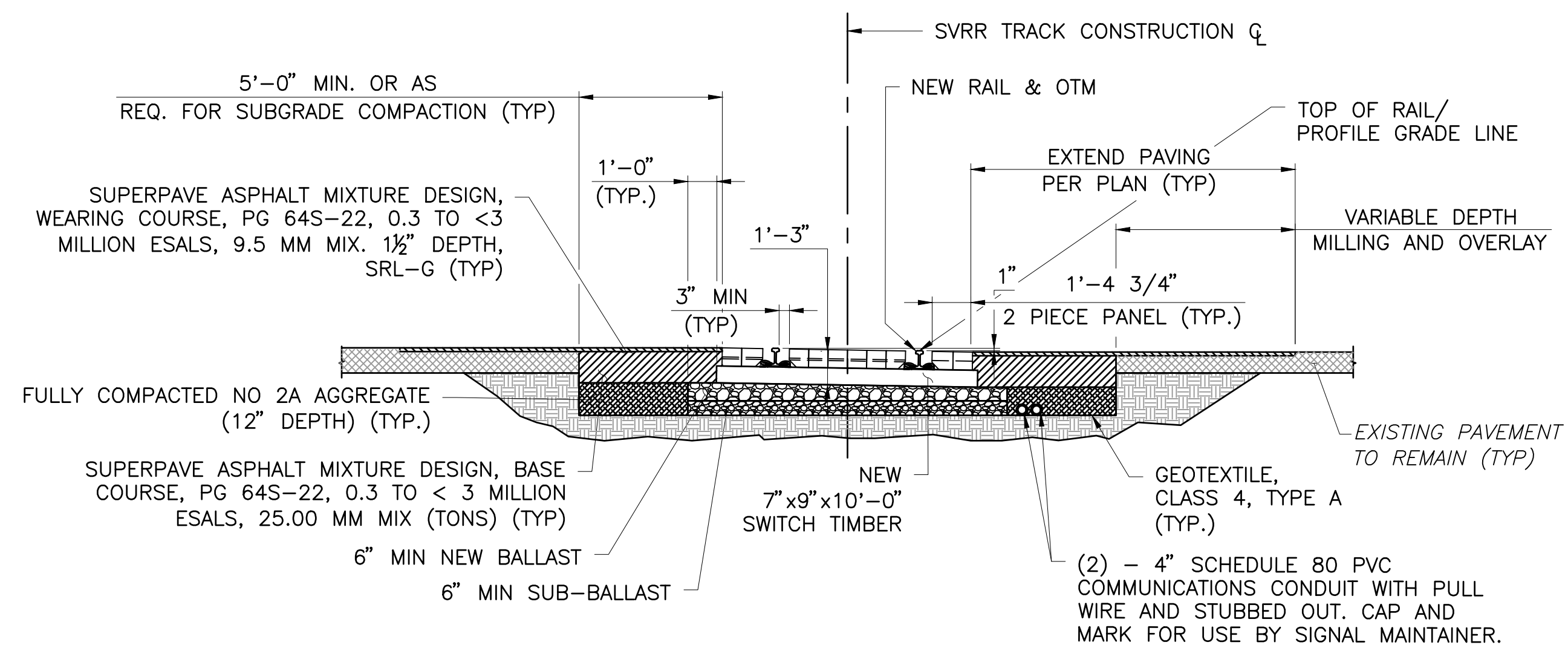
DESIGNED BY: JES

CHECKED BY: JES

SCALE: AS SHOWN

Drawing:

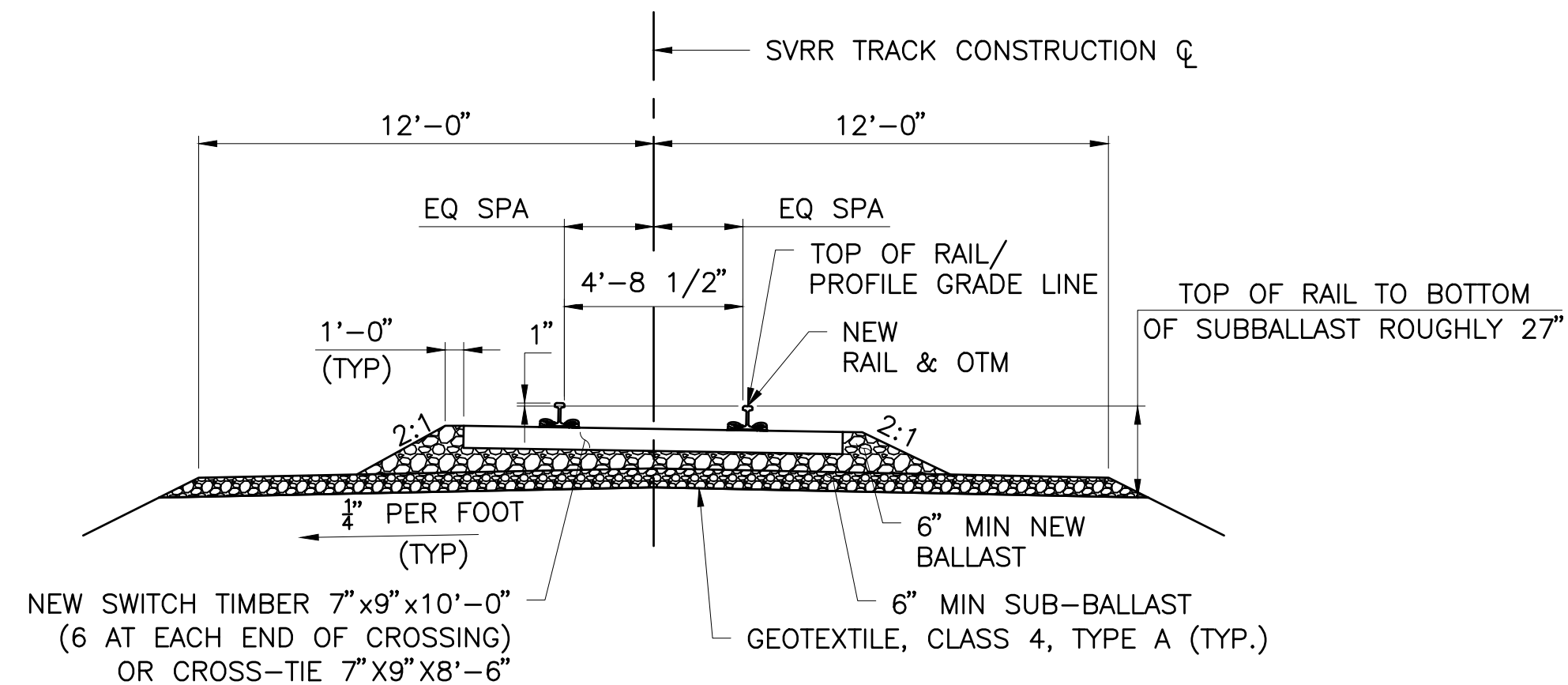
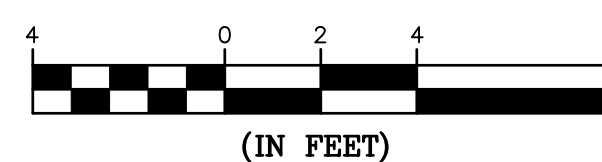
C4



TYPICAL CONSTRUCT TIMBER CROSSING SECTION

STA. 886+77.42 TO STA. 887+25.42

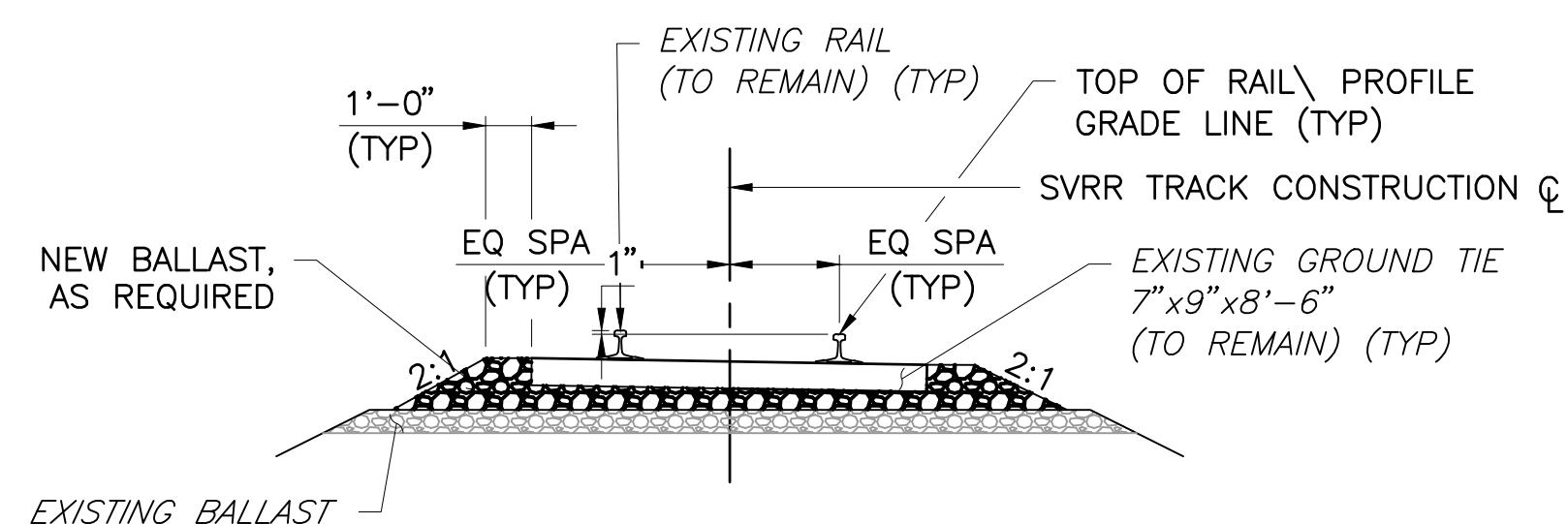
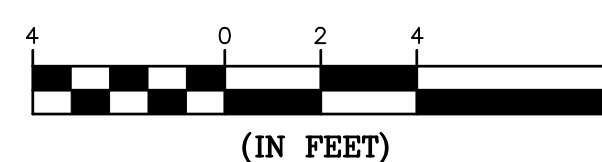
GRAPHIC SCALE



TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

STA. 886+24.42 TO STA. 886+77.42
STA. 887+25.42 TO STA. 887+69.42

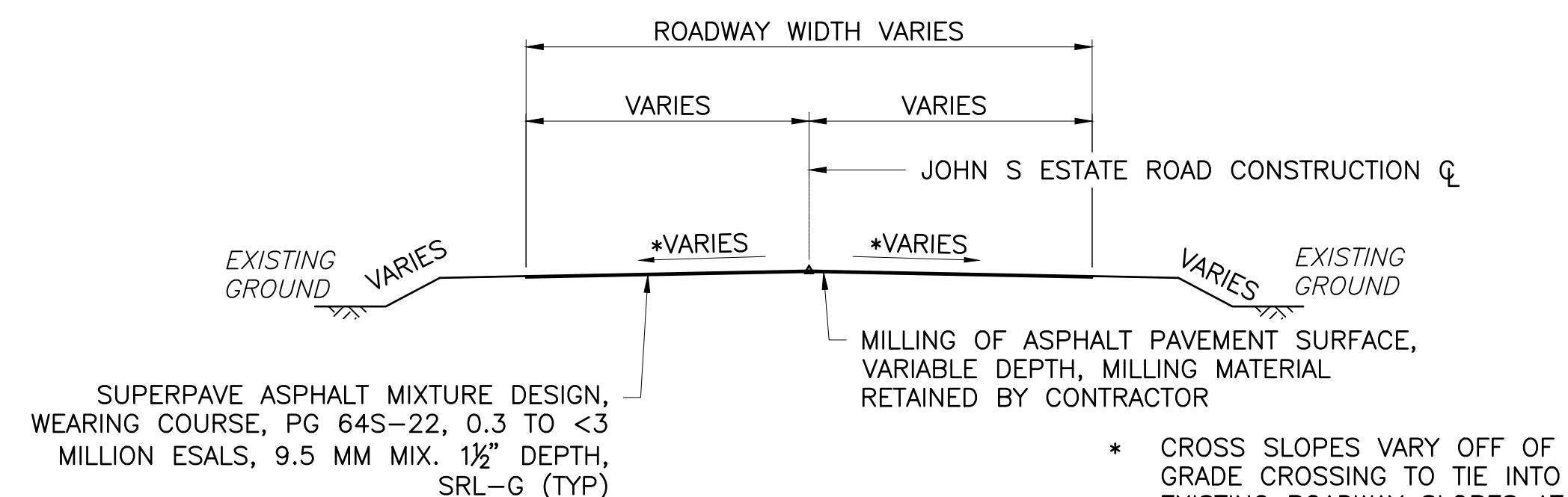
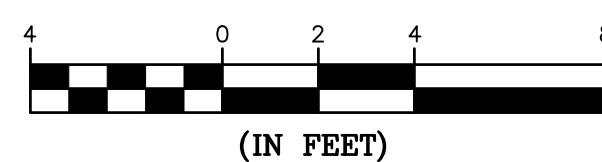
GRAPHIC SCALE



TYPICAL SECTION - REALIGN TRACK

STA. 885+75.00 TO STA. 886+24.42
STA. 887+69.42 TO STA. 888+30.00

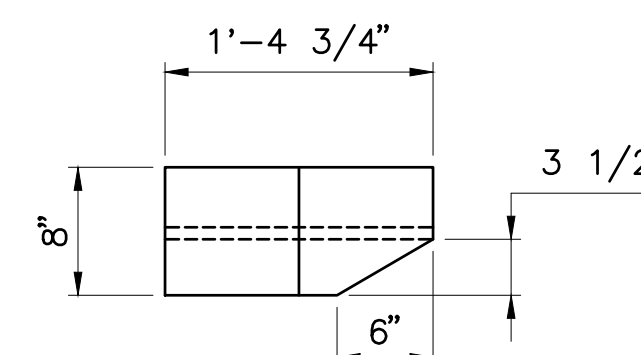
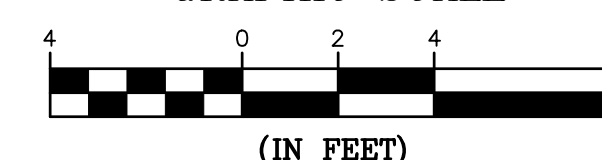
GRAPHIC SCALE



TYPICAL MILL & OVERLAY SECTION

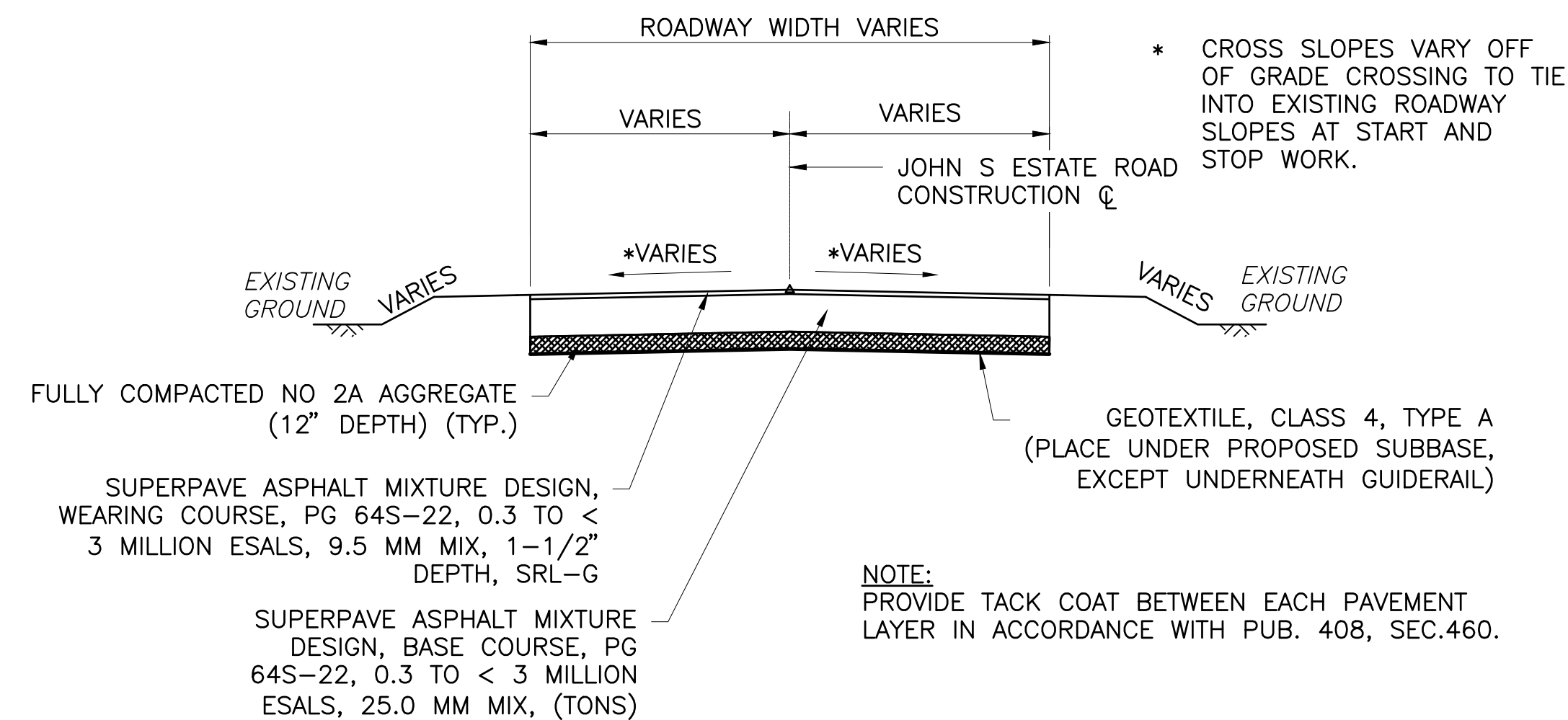
STA. 10+50.00 TO STA. 10+65.24
STA. 10+96.56 TO STA. 11+12.00

GRAPHIC SCALE



TWO PIECE PANEL DETAIL

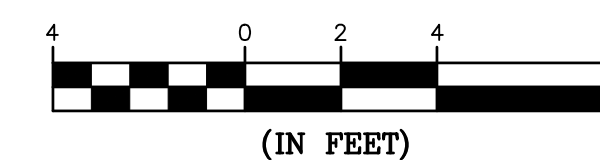
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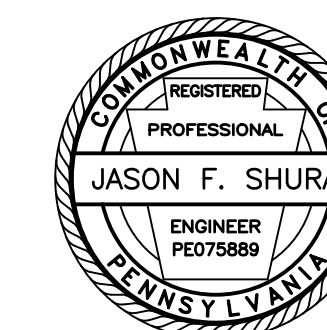


TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 10+65.24 TO STA. 10+74.53
STA. 10+88.49 TO STA. 10+96.56

GRAPHIC SCALE





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AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

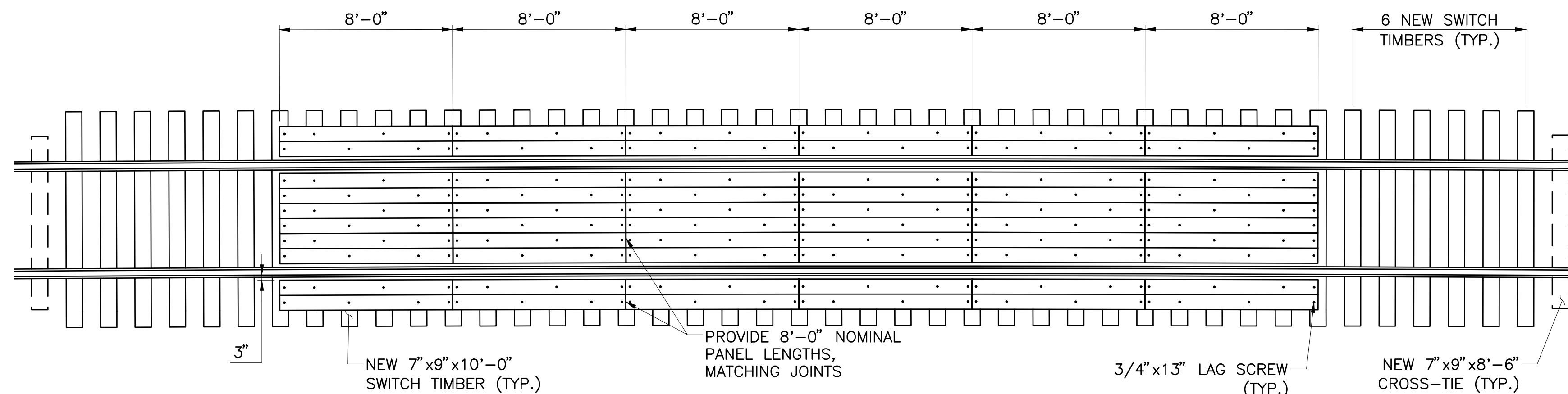
Sheet Title:

DETAILS

PROJECT NO.	19-0001.185
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

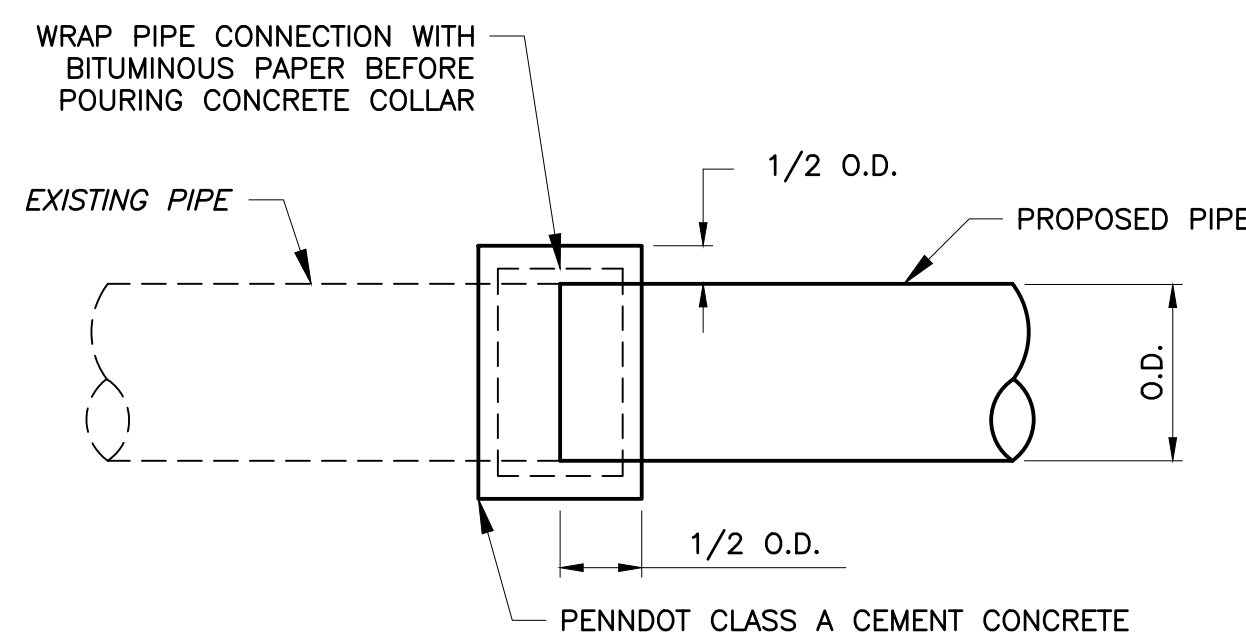
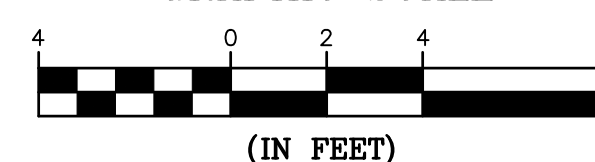
Drawing:

C5



AT-GRADE CROSSING PLAN

GRAPHIC SCALE

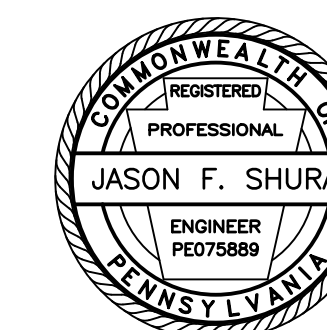


NOTES

- CONSTRUCT IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 618 FOR CONCRETE COLLAR FOR PIPE EXTENSION.
- SEE PENNDOT STD. DWG. NO. RC-32M FOR OTHER DETAILS NOT SHOWN

**CONCRETE COLLAR FOR PIPE EXTENSION
(INCIDENTAL TO DRAINAGE IMPROVEMENTS ITEM)**

NOT TO SCALE



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
JOHN S ESTATE ROAD GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

COAL TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETOUR PLAN

PROJECT NO. 19-0001.185

DRAWN BY: AMG

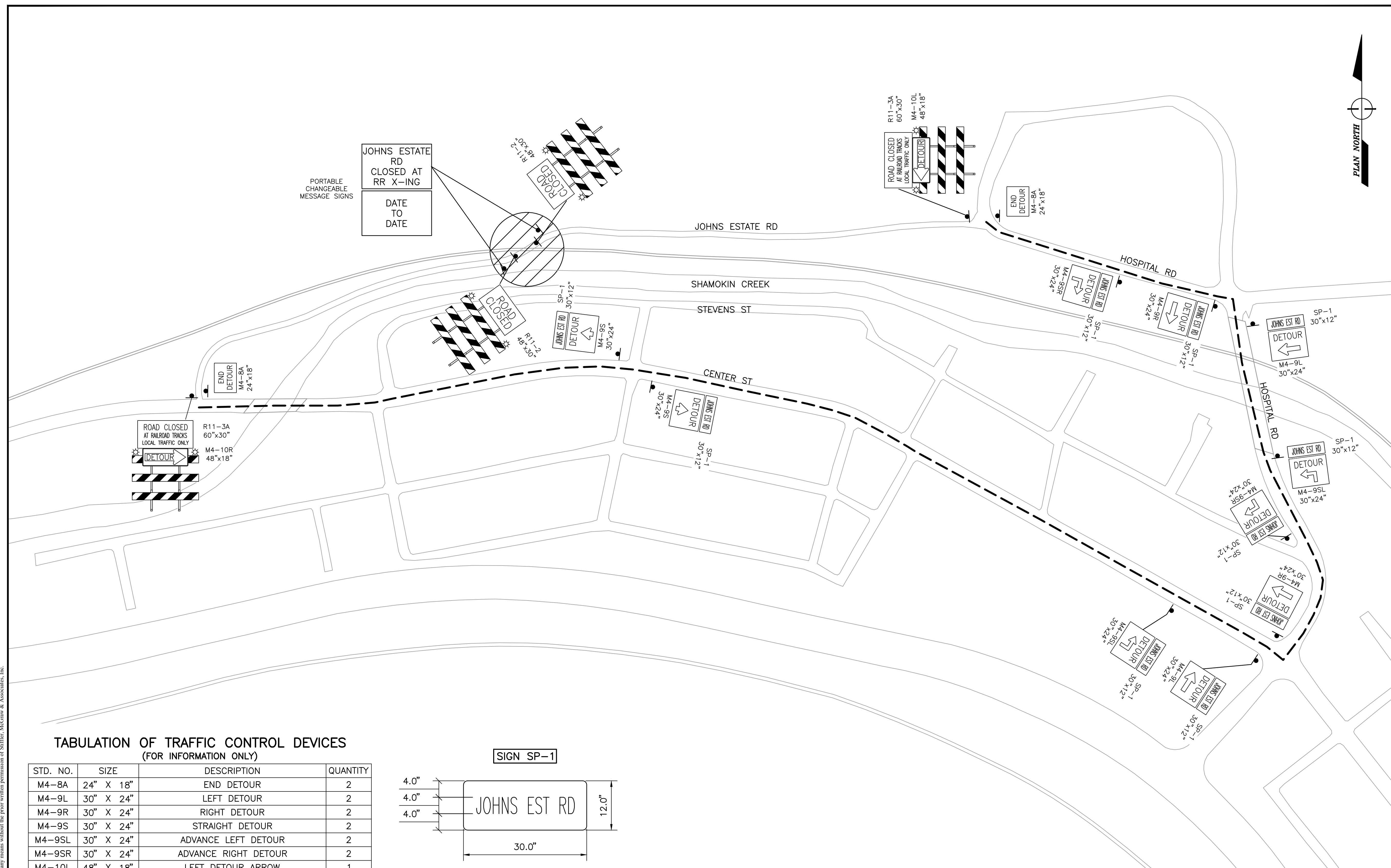
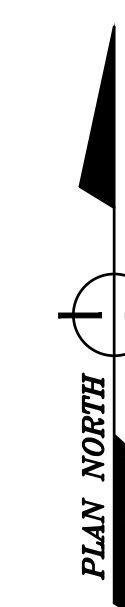
DESIGNED BY: JES

CHECKED BY: CEB

SCALE: AS SHOWN

Drawing:

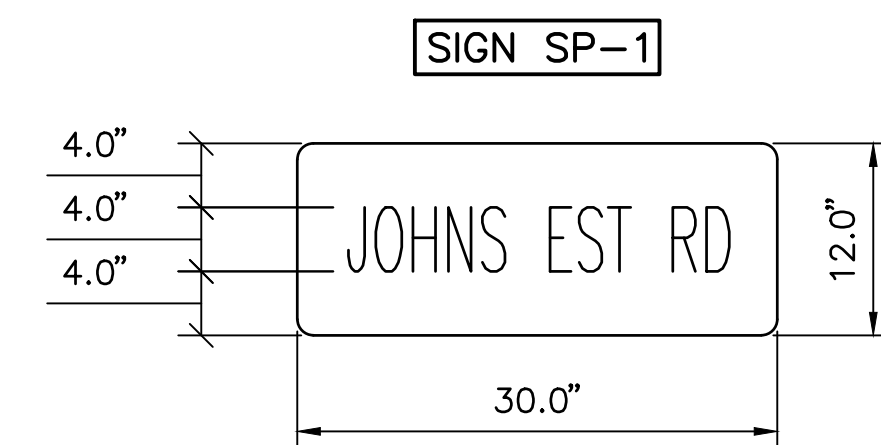
TC1



**TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	2
M4-9R	30" X 24"	RIGHT DETOUR	2
M4-9S	30" X 24"	STRAIGHT DETOUR	2
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	2
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	2
M4-10L	48" X 18"	LEFT DETOUR ARROW	1
M4-10R	48" X 18"	RIGHT DETOUR ARROW	1
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	2
SP-1	30" X 12"	SPECIAL SIGN	10
		PORTABLE CHANGEABLE MESSAGE SIGN	2
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"JOHNS EST RD"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

0.7	2.0	0.8	0	2.3	0.9	H	2.2	0.8	N	2.2	0.8	S	2.2	0.8	E	2.0	0.7	S	2.2	0.7	T	2.0	0.7	R	2.2	0.8	D	2.2	0.7
-----	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----

LETTERS = 21.5
SPACES = 8.4
TOTAL = 29.9

SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD LENKER AVENUE GRADE CROSSING REPLACEMENT PROJECT

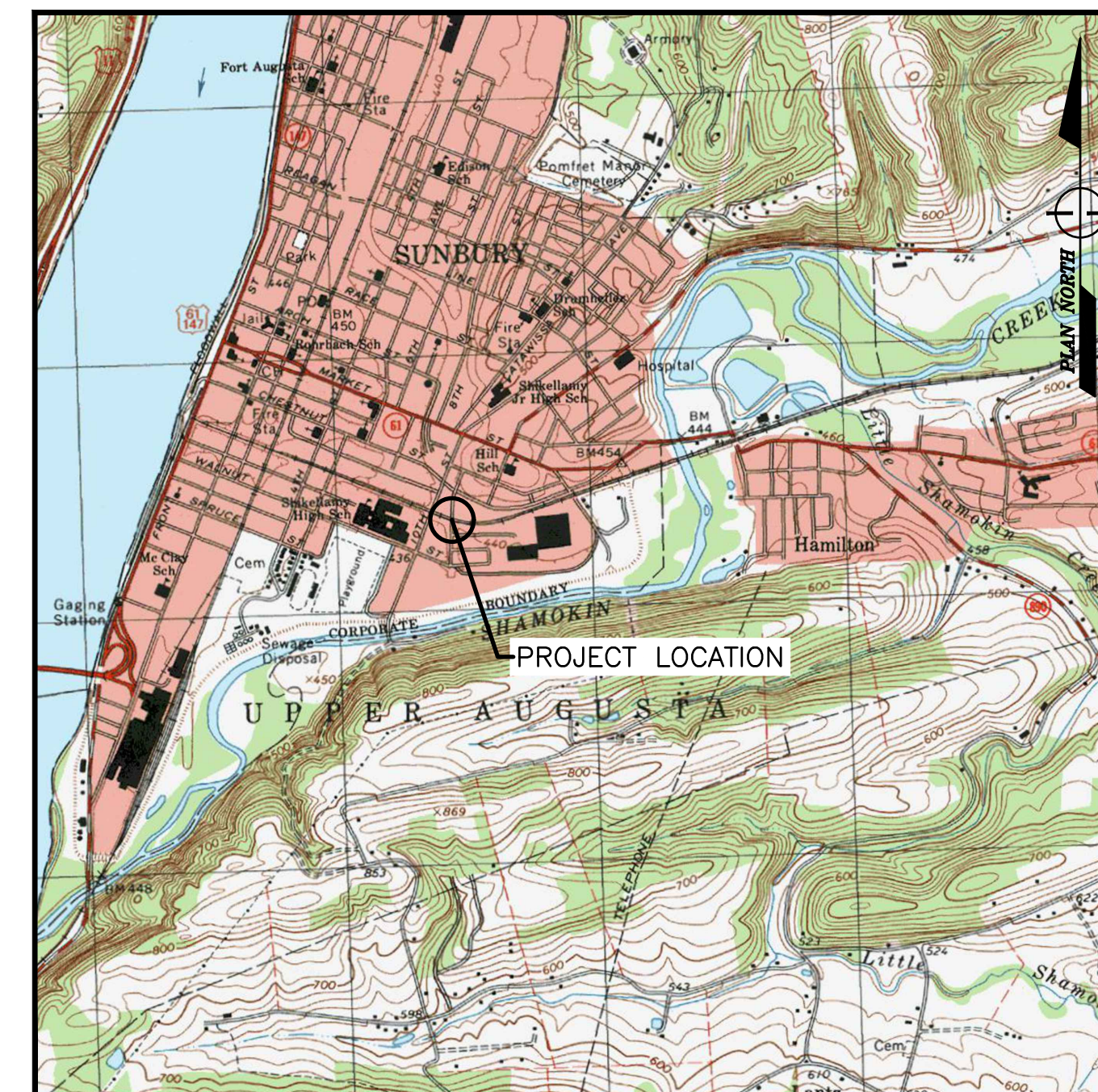
CITY OF SUNBURY, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

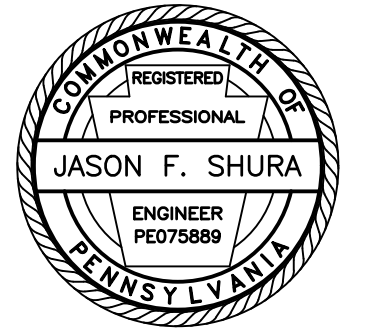
INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	ROAD PROFILE
C4	DRAINAGE PROFILE
C5	TYPICAL SECTIONS
C6	DETAILS
TC1	DETOUR PLAN



SUNBURY, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP
SCALE: 1" = 2000'



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Revisions:

No.	Date	Description
△		

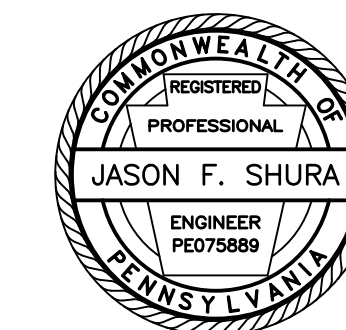
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.180
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
LENKER AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
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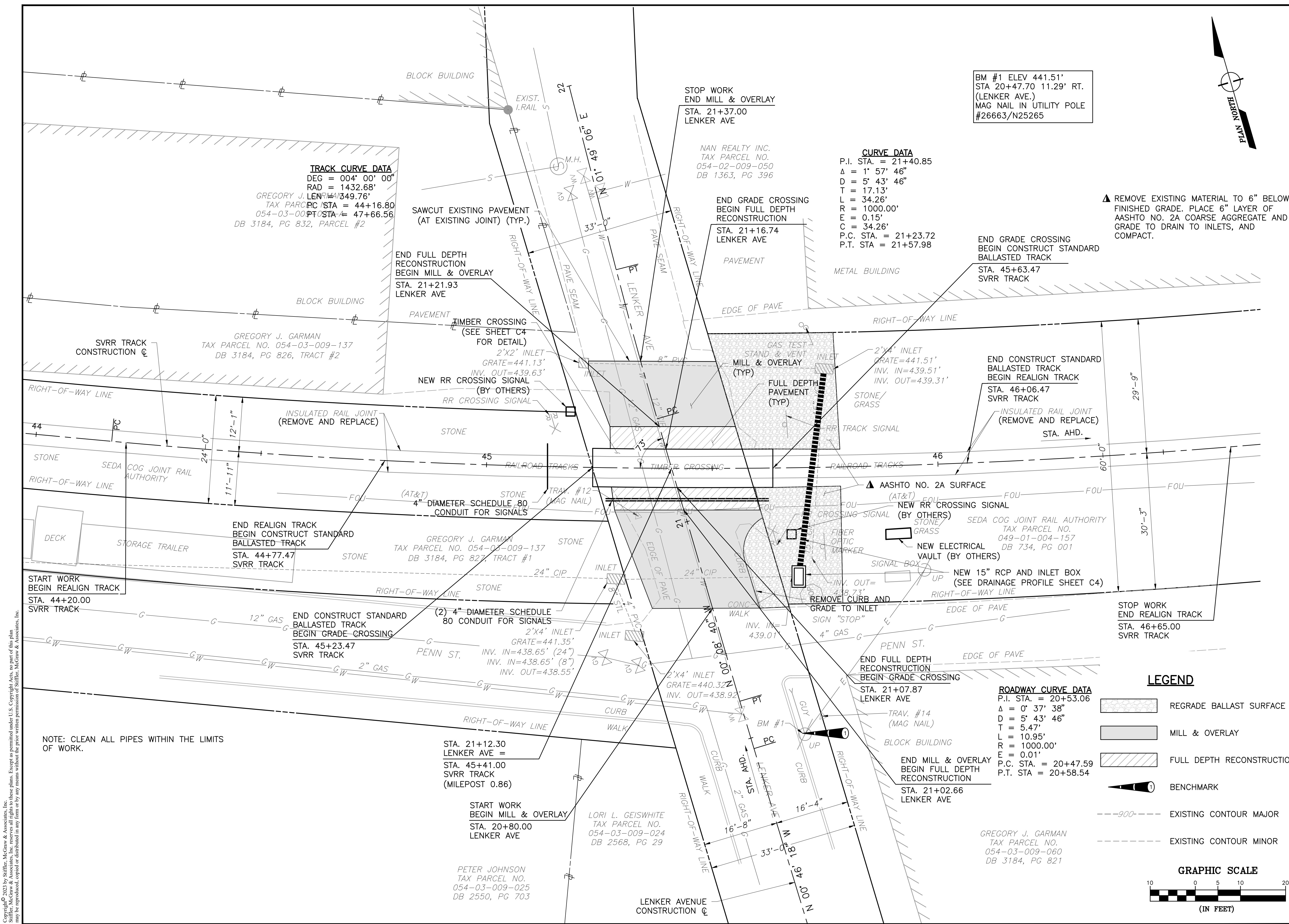
Sheet Title:

SITE PLAN

PROJECT NO.	19-0001.180
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C1



BM #1 ELEV 441.51'
STA 20+47.70 11.29' RT.
(LENKER AVE.)
MAG NAIL IN UTILITY POLE
#26663/N25265

CURVE DATA
P.I. STA. = 21+40.85
Δ = 1' 57' 46"
D = 5' 43' 46"
T = 17.13'
L = 34.26'
R = 1000.00'
E = 0.15'
C = 34.26'
P.C. STA. = 21+23.72
P.T. STA = 21+57.98

TRACK CURVE DATA
DEG = 004° 00' 00"
RAD = 1432.68'
LENKER AVE
PC STA = 44+16.80
PT STA = 47+66.56
DB 3184, PG 832, PARCEL #2

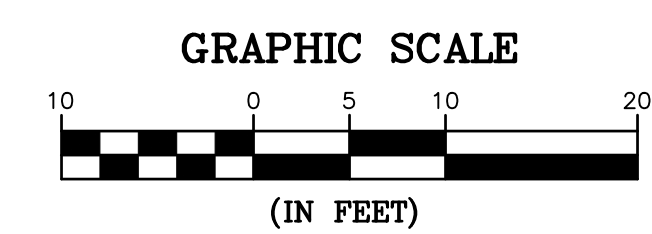
GREGORY J. GARMAN
TAX PARCEL NO. 054-03-009-137
DB 3184, PG 826, TRACT #2

GREGORY J. GARMAN
TAX PARCEL NO. 054-03-009-137
DB 3184, PG 827, TRACT #1

ROADWAY CURVE DATA
P.I. STA. = 20+53.06
Δ = 0' 37' 38"
D = 5' 43' 46"
T = 5.47'
L = 10.95'
R = 1000.00'
E = 0.01'
P.C. STA. = 20+47.59
P.T. STA = 20+58.54

LEGEND

- REGRADE BALLAST SURFACE
- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR



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NOTE: CLEAN ALL PIPES WITHIN THE LIMITS OF WORK.



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AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
LENKER AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

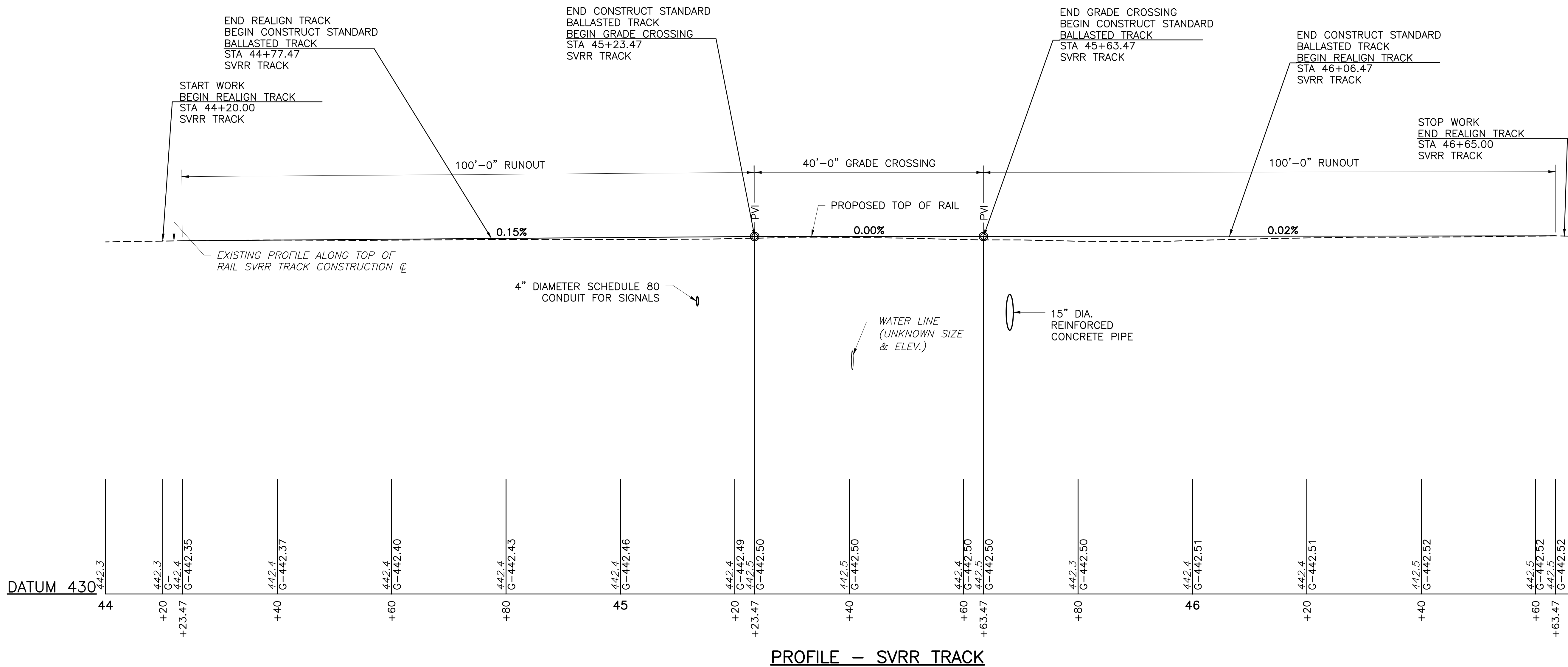
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TRACK PROFILE

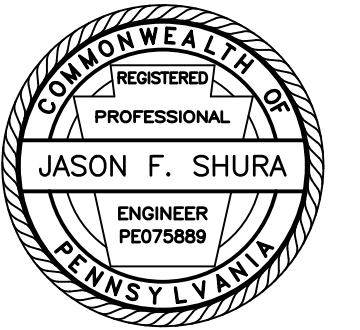
PROJECT NO. 19-0001.180
DRAWN BY: BRB
DESIGNED BY: JES
CHECKED BY: JES
SCALE: AS SHOWN

Drawing:

C2



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2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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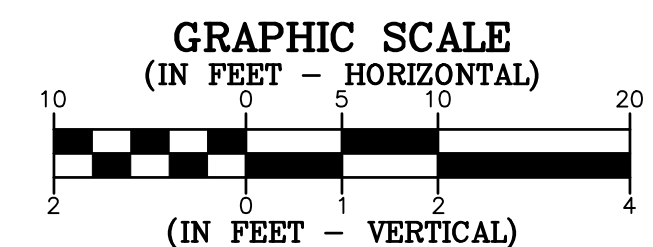
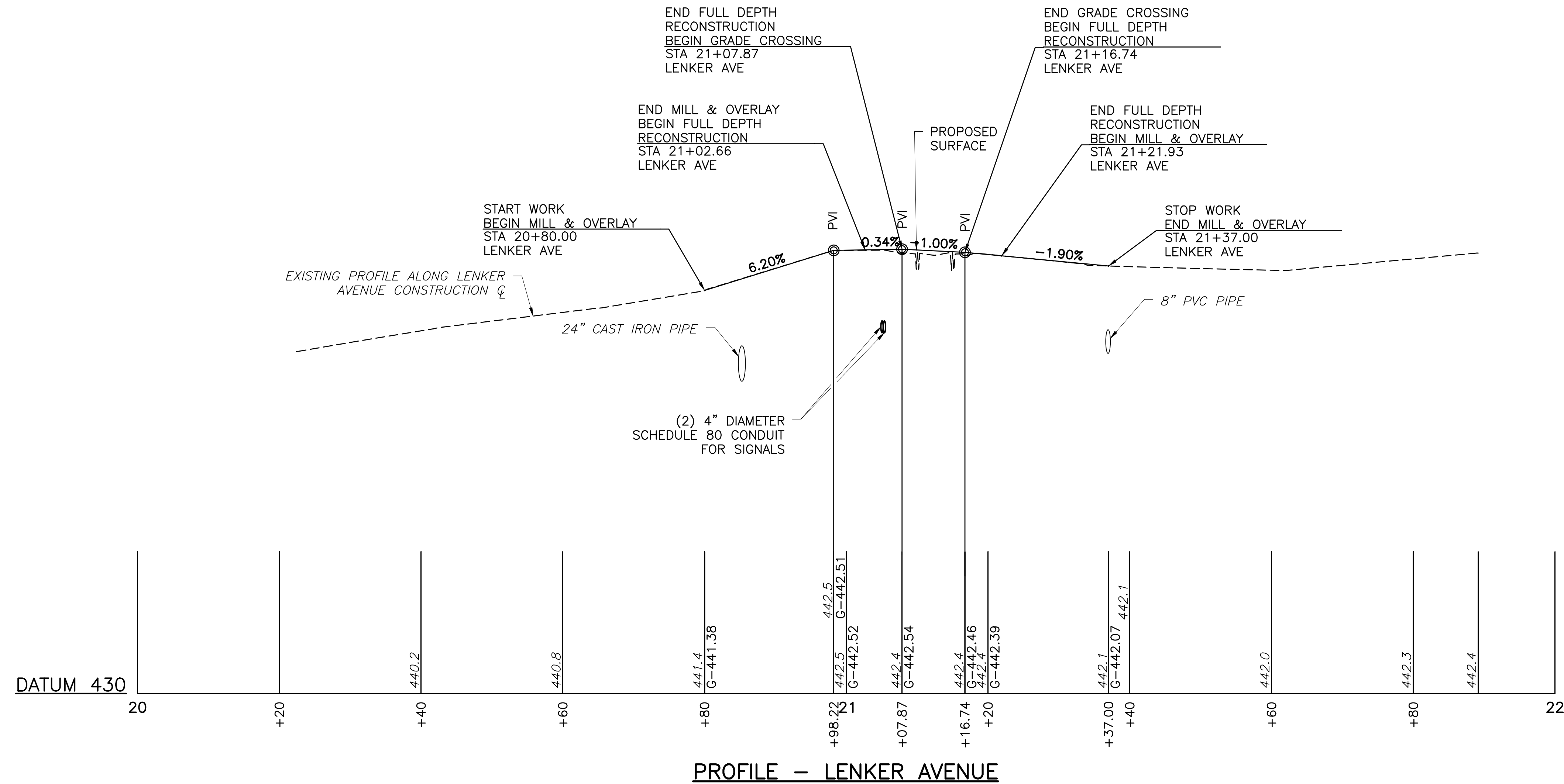
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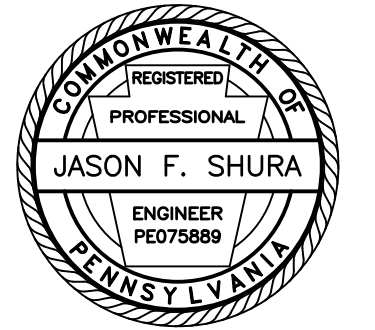
ROAD PROFILE

PROJECT NO.	19-0001.180
DRAWN BY:	BRB
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SCALE:	AS SHOWN

Drawing:

C3





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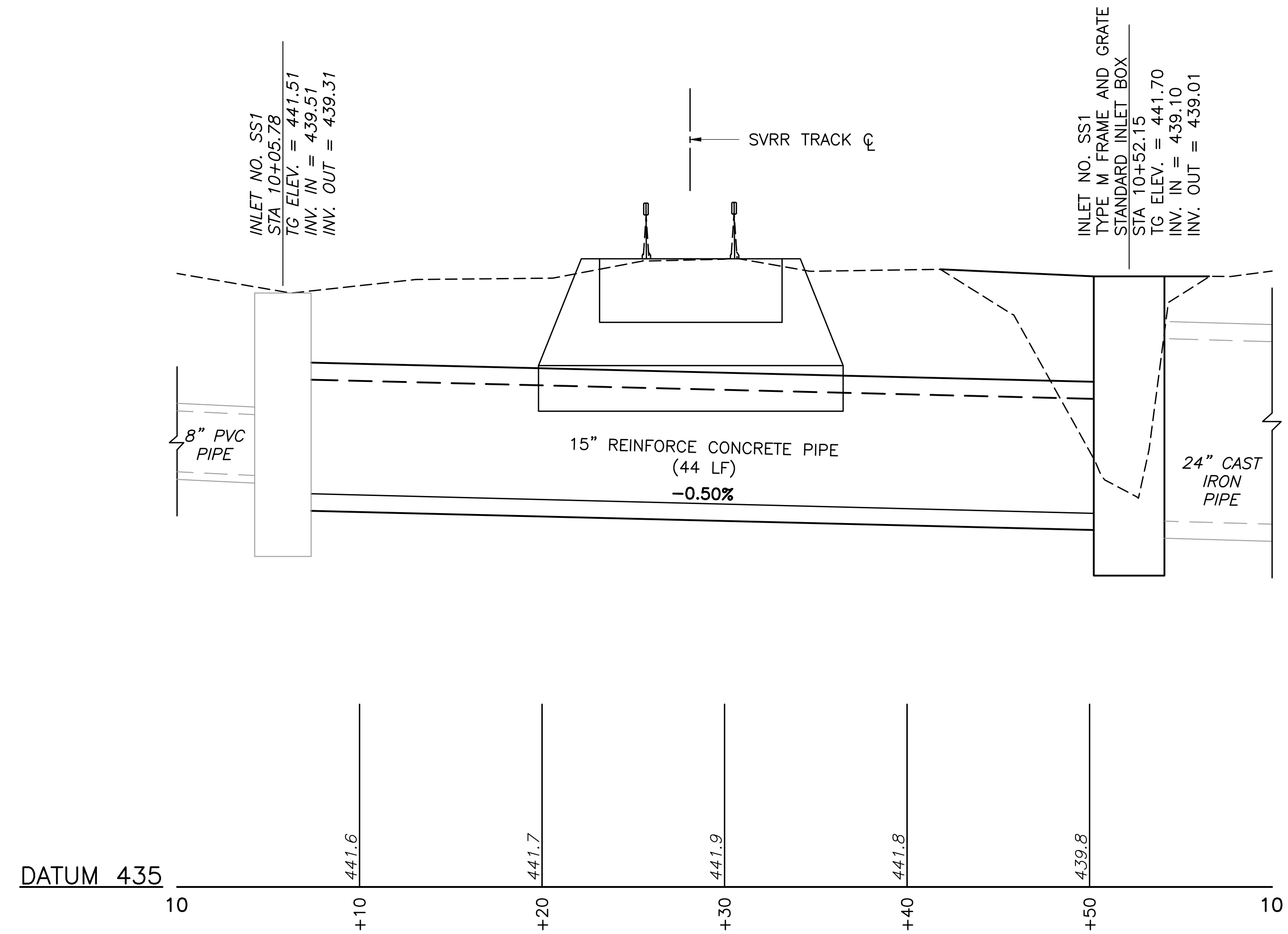
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Project Name:
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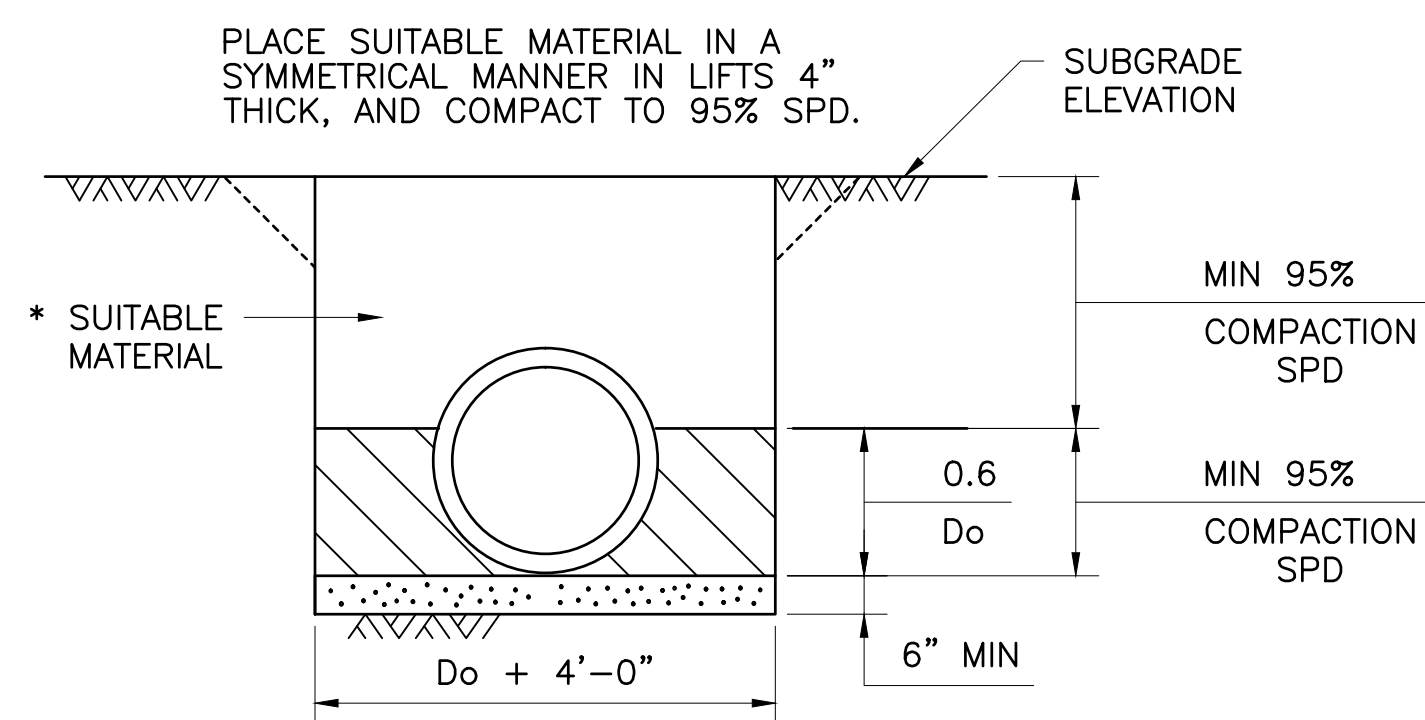
2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

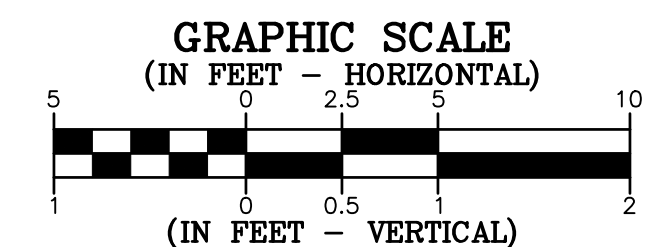
CONTRACT DRAWINGS



PROFILE - DRAINAGE PROFILE



TYPICAL SECTION CONCRETE PIPE
CULVERT
NOT TO SCALE



Revisions:

No.	Date	Description
△		

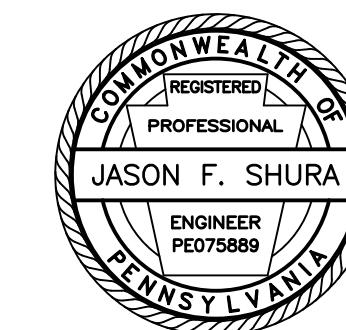
Sheet Title:

DRAINAGE PROFILE

PROJECT NO.	19-0001.180
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C4



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2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

TYPICAL SECTIONS

PROJECT NO. 19-0001.180

DRAWN BY: BRB

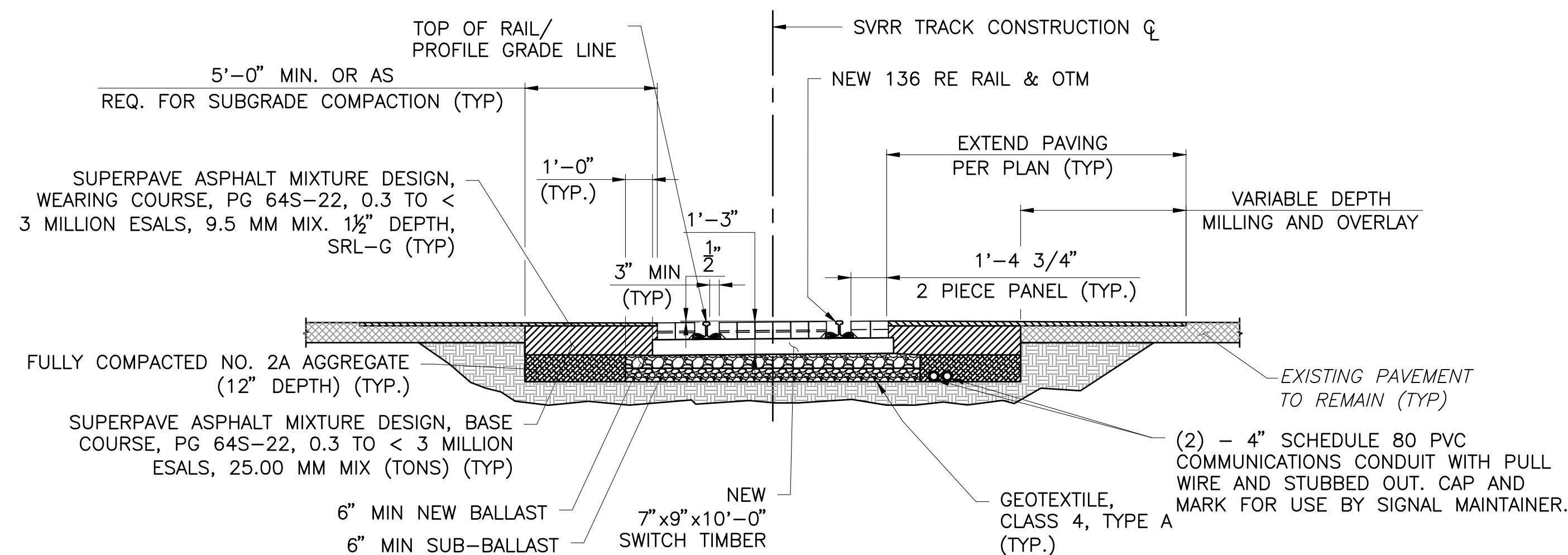
DESIGNED BY: JES

CHECKED BY: JES

SCALE: AS SHOWN

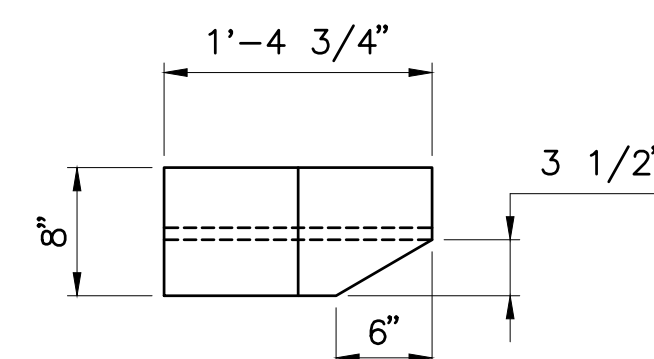
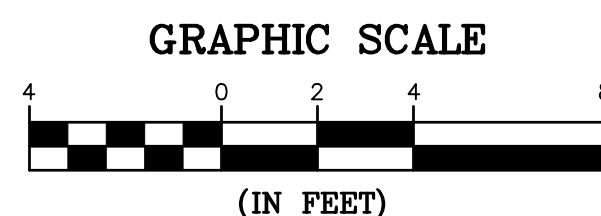
Drawing:

C5

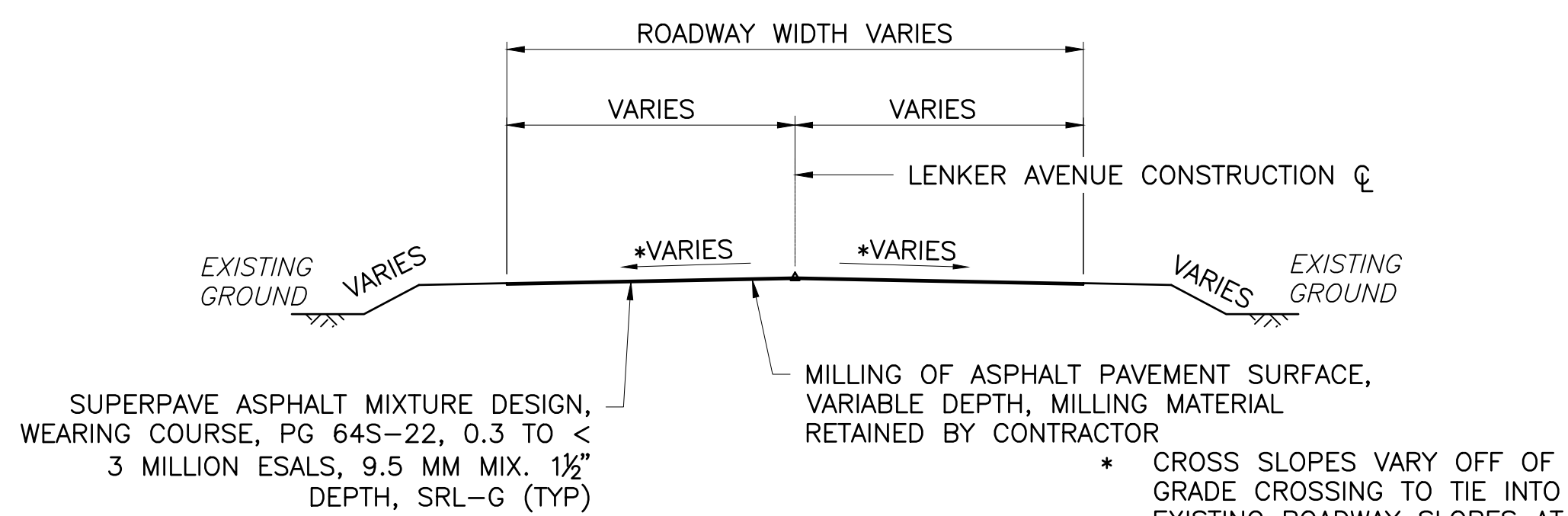


TYPICAL CONSTRUCT TIMBER CROSSING SECTION

STA. 45+23.47 TO STA. 45+63.47

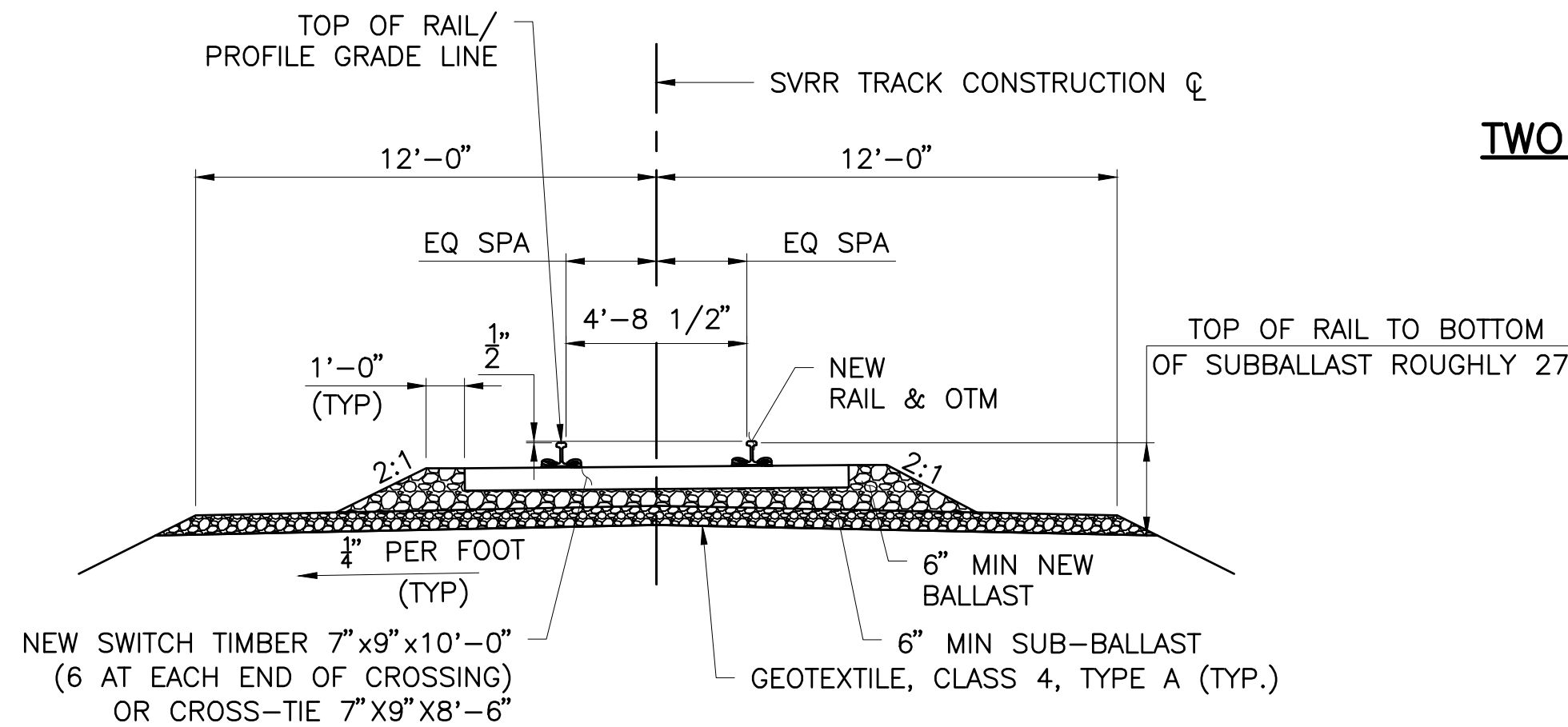
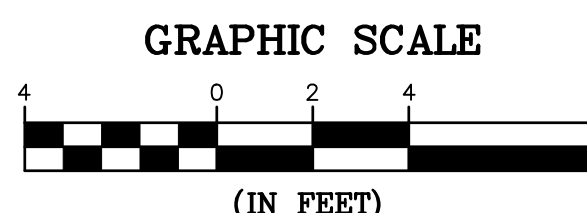


TWO PIECE PANEL DETAIL
NOT TO SCALE



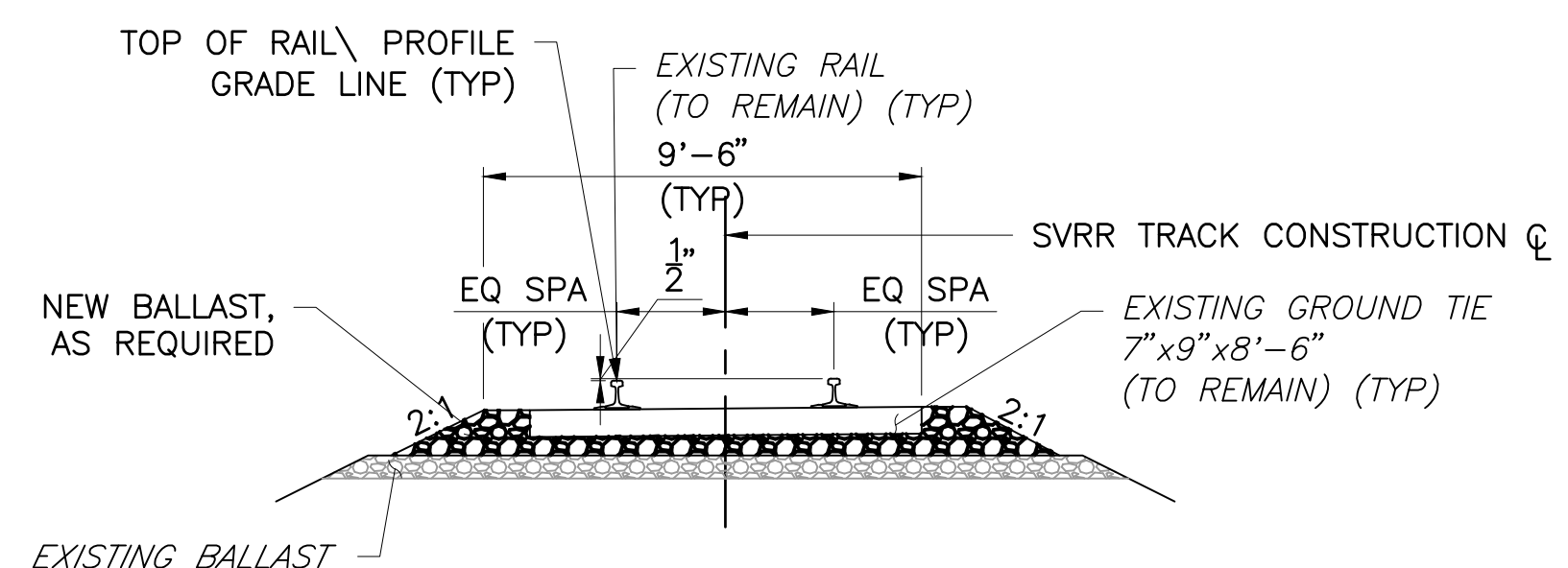
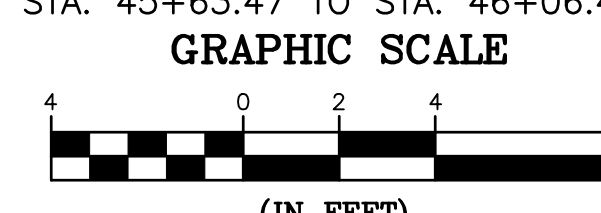
TYPICAL MILL & OVERLAY SECTION

STA. 20+80.00 TO STA. 21+02.66
STA. 21+21.93 TO STA. 21+37.00



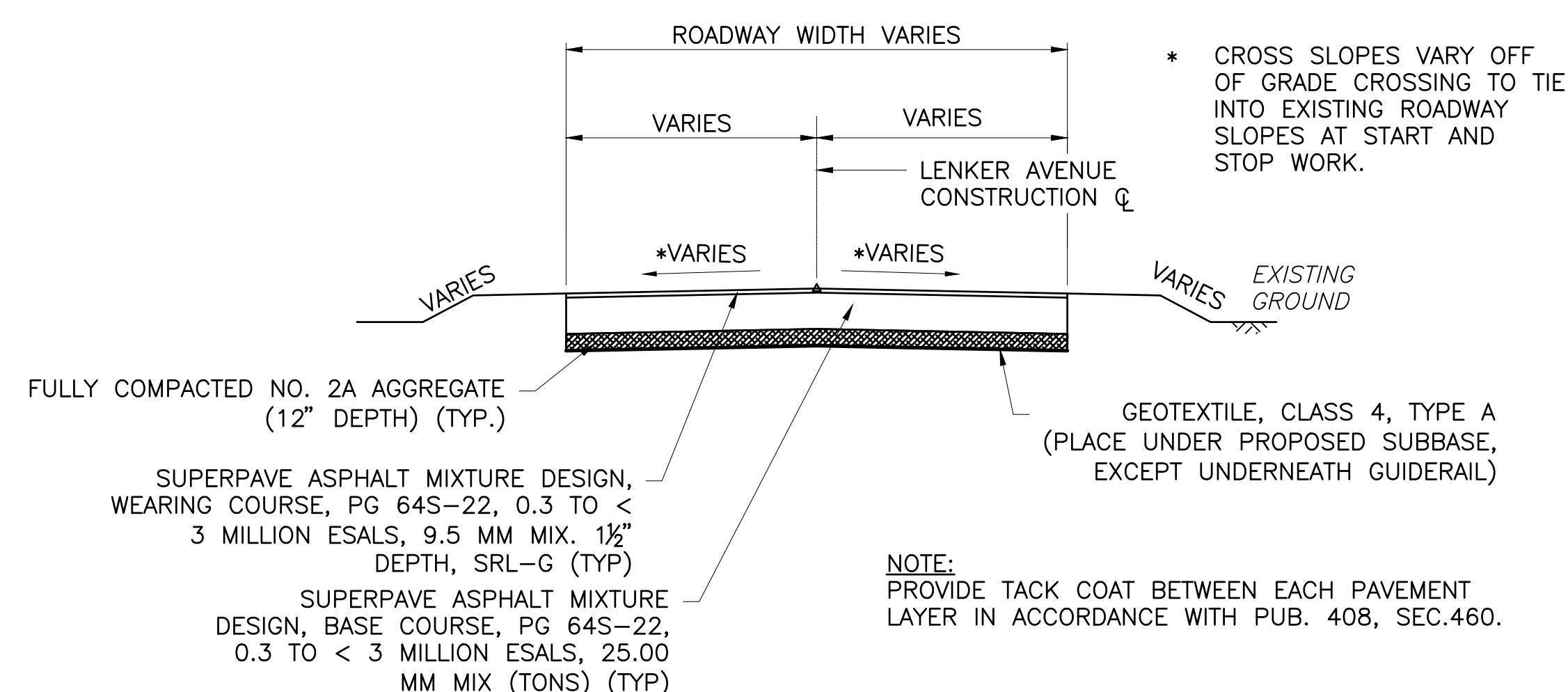
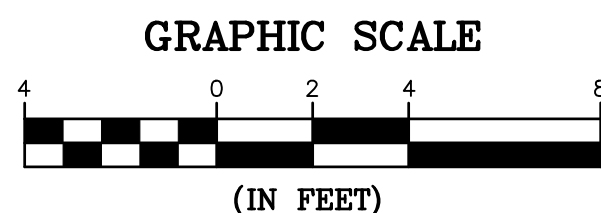
TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

STA. 44+77.47 TO STA. 45+23.47
STA. 45+63.47 TO STA. 46+06.47



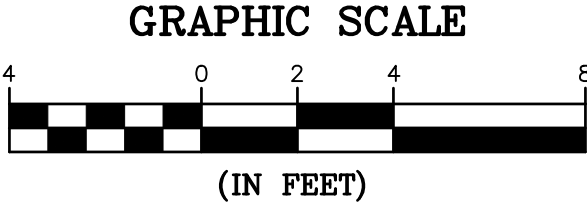
TYPICAL SECTION - REALIGN TRACK

STA. 44+20.00 TO STA. 44+77.47
STA. 46+06.47 TO STA. 46+65.00

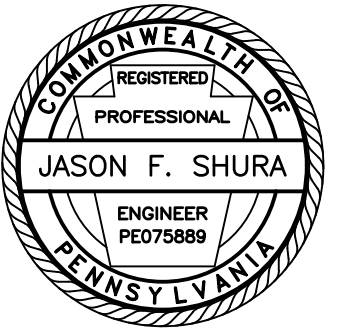


TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 21+02.66 TO STA. 21+07.67
STA. 21+16.74 TO STA. 21+21.93



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LENKER AVENUE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

CITY OF SUNBURY
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

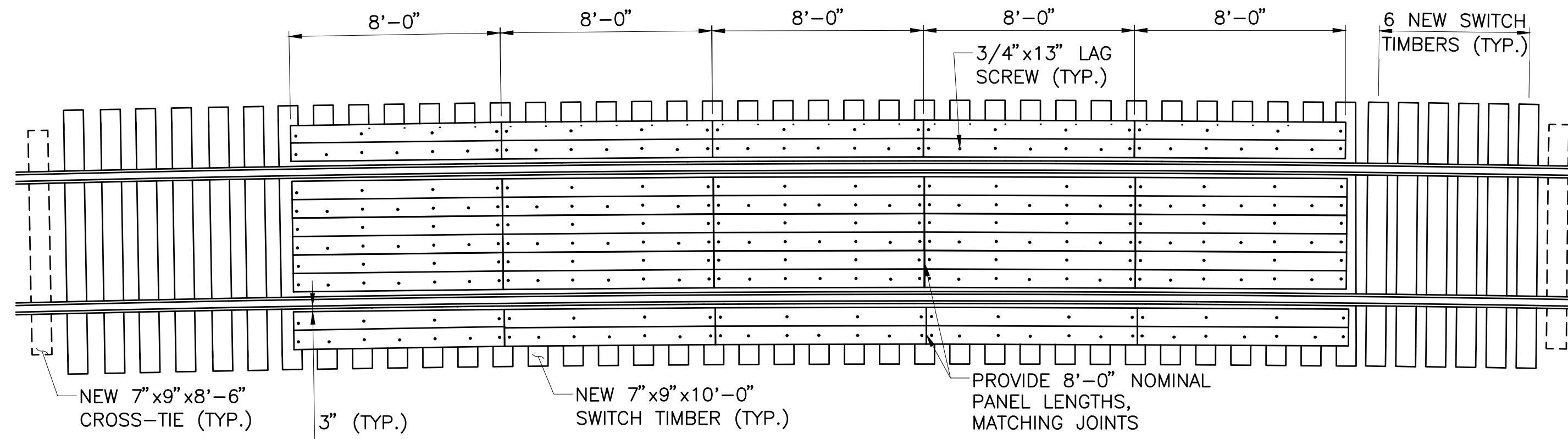
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DETAILS

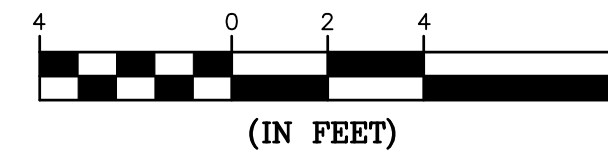
PROJECT NO.	19-0001.180
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C6



AT-GRADE CROSSING PLAN
GRAPHIC SCALE



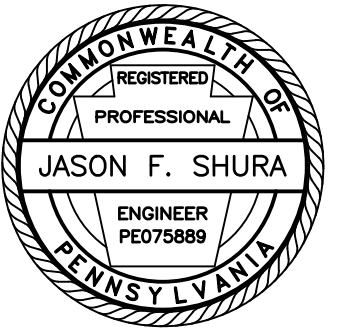
TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9R	30" X 24"	RIGHT DETOUR	3
M4-9S	30" X 24"	STRAIGHT DETOUR	4
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	2
M4-10L	48" X 18"	LEFT DETOUR ARROW	2
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	1
SP-1	30" X 12"	SPECIAL SIGN	9
		PORTABLE CHANGEABLE MESSAGE SIGN	3
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1731 N. Juniata Street
Holidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



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NORTHUMBERLAND COUNTY

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Revisions:

No.	Date	Description

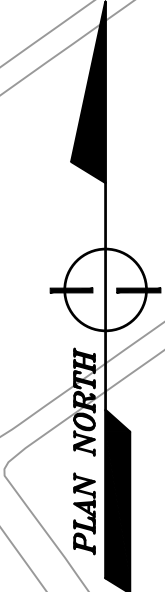
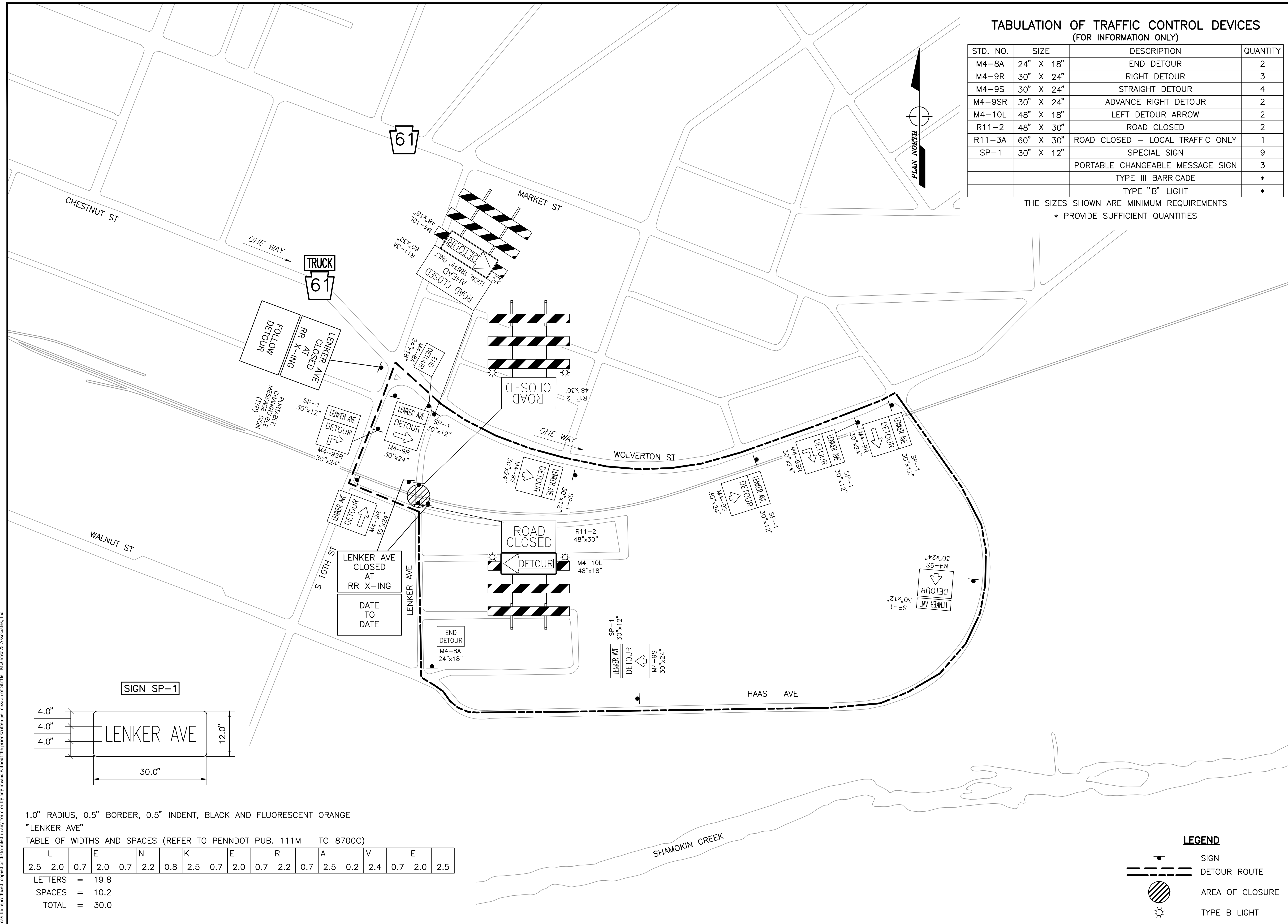
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.180
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	CEB
SCALE:	AS SHOWN

Drawing:

TC1



SIGN SP-1



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"LENKER AVE"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

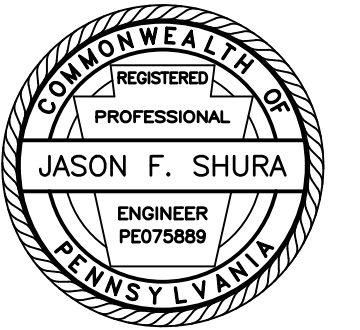
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2.0	0.7	2.2	0.8	2.5	0.7	2.0	0.7	2.2
2.5	0.2	2.4	0.7	2.0	2.5	0.2	2.4	0.7

LETTERS = 19.8
SPACES = 10.2
TOTAL = 30.0

LEGEND

	SIGN
	DETOUR ROUTE
	AREA OF CLOSURE
	TYPE B LIGHT

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SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD NORTH SHAMOKIN STREET GRADE CROSSING REPLACEMENT PROJECT

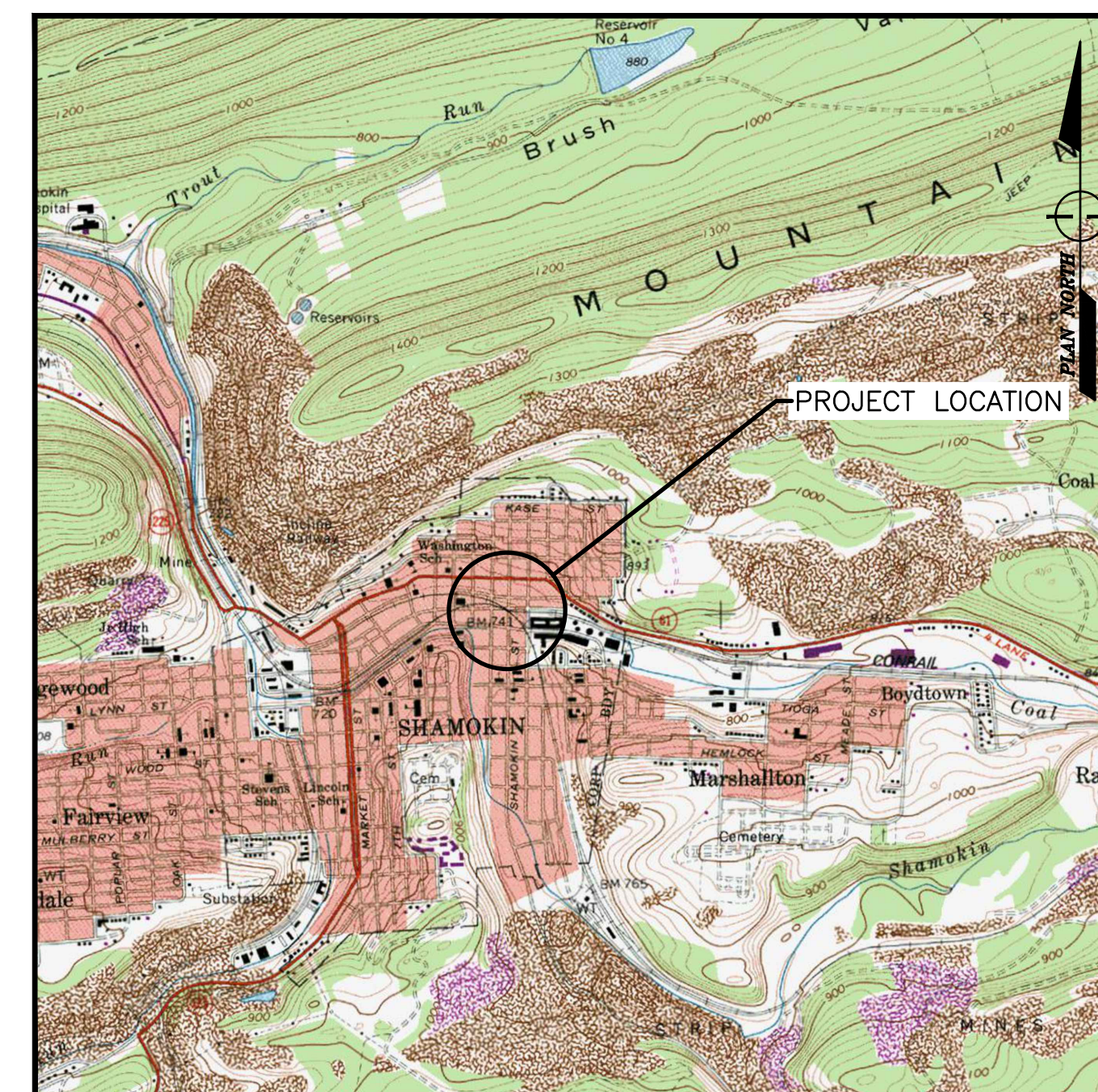
CITY OF SHAMOKIN, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	ROAD PROFILE
C4	TYPICAL SECTIONS
C5	DETAILS
TC1	DETOUR PLAN



SUNBURY, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP

SCALE: 1" = 2000'

Revisions:

No.	Date	Description
△		

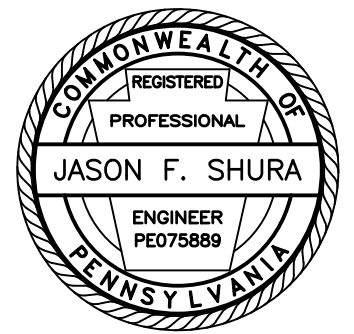
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.186
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



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REPLACEMENT PROJECT

2023-02

CITY OF SHAMOKIN
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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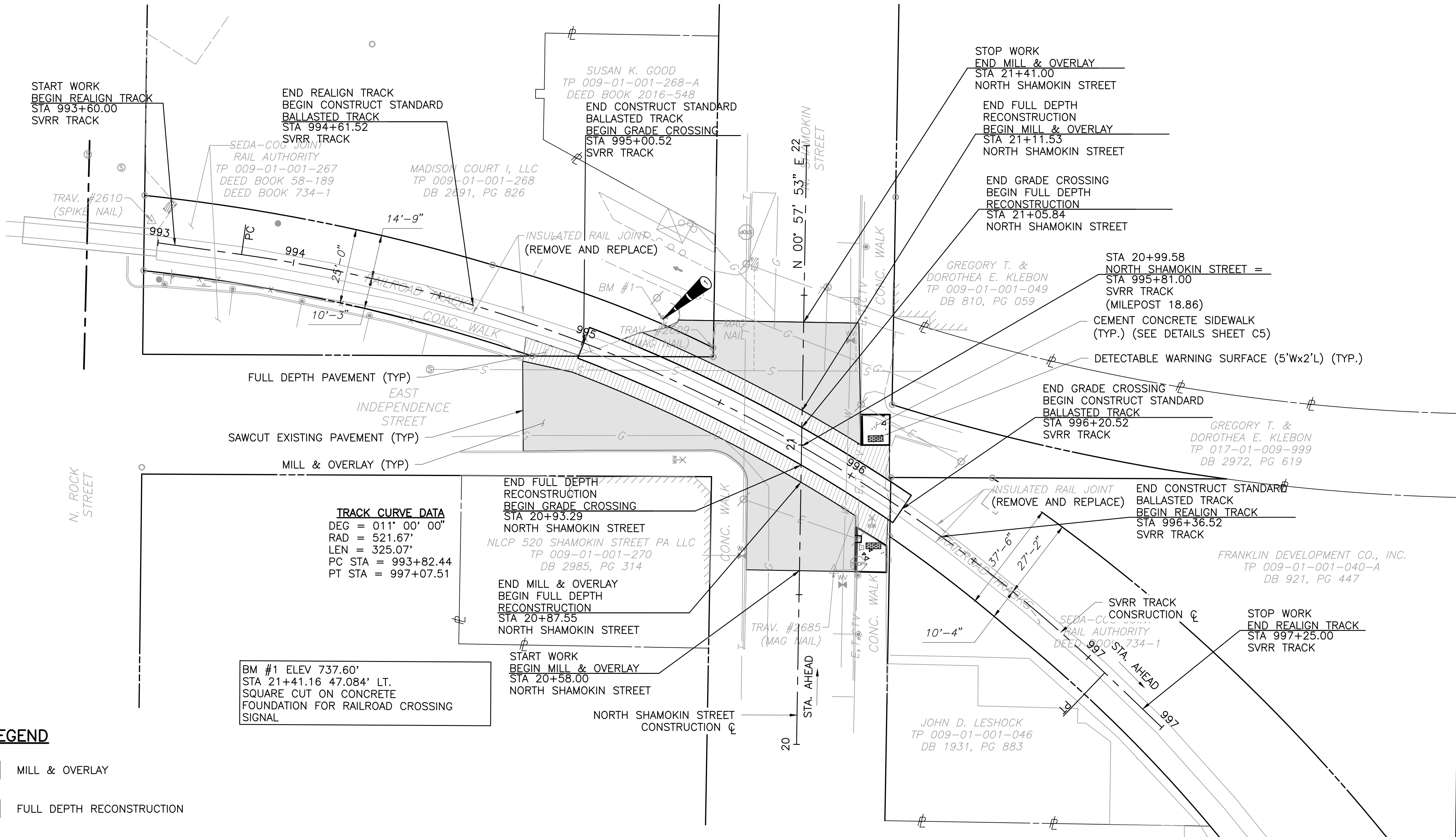
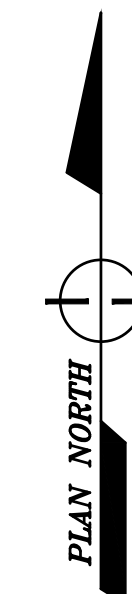
Sheet Title:

SITE PLAN

PROJECT NO.	19-0001.186
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C1



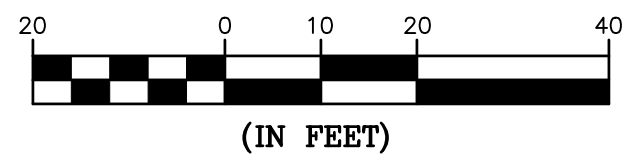
TRACK CURVE DATA
DEG = 011° 00' 00"
RAD = 521.67'
LEN = 325.07'
PC STA = 993+82.44
PT STA = 997+07.51

BM #1 ELEV 737.60'
STA 21+41.16 47.084' LT.
SQUARE CUT ON CONCRETE
FOUNDATION FOR RAILROAD CROSSING
SIGNAL

LEGEND

- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR

GRAPHIC SCALE



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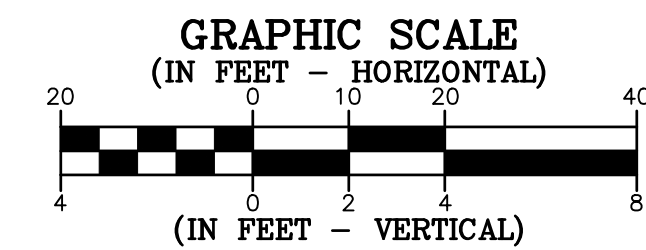
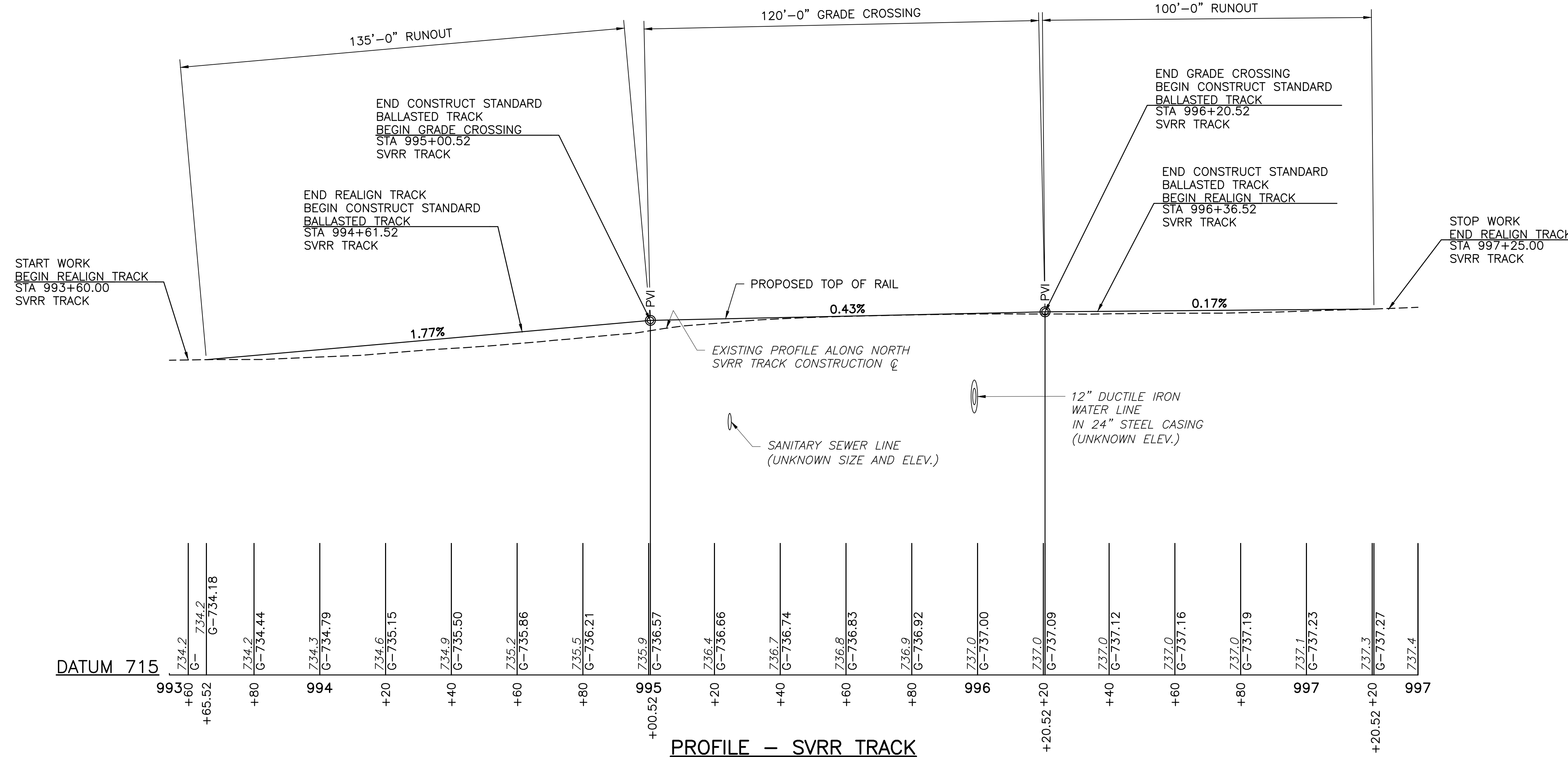
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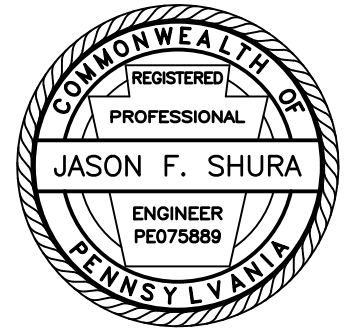
TRACK PROFILE

PROJECT NO.	19-0001.186
DRAWN BY:	JDD
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Drawing:

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2023-02

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Revisions:

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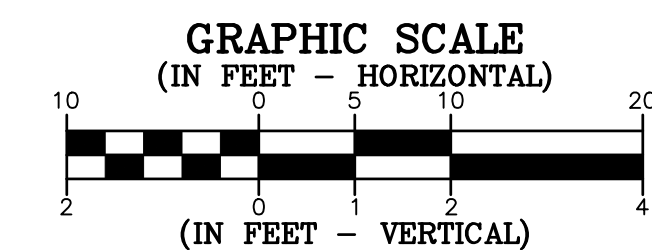
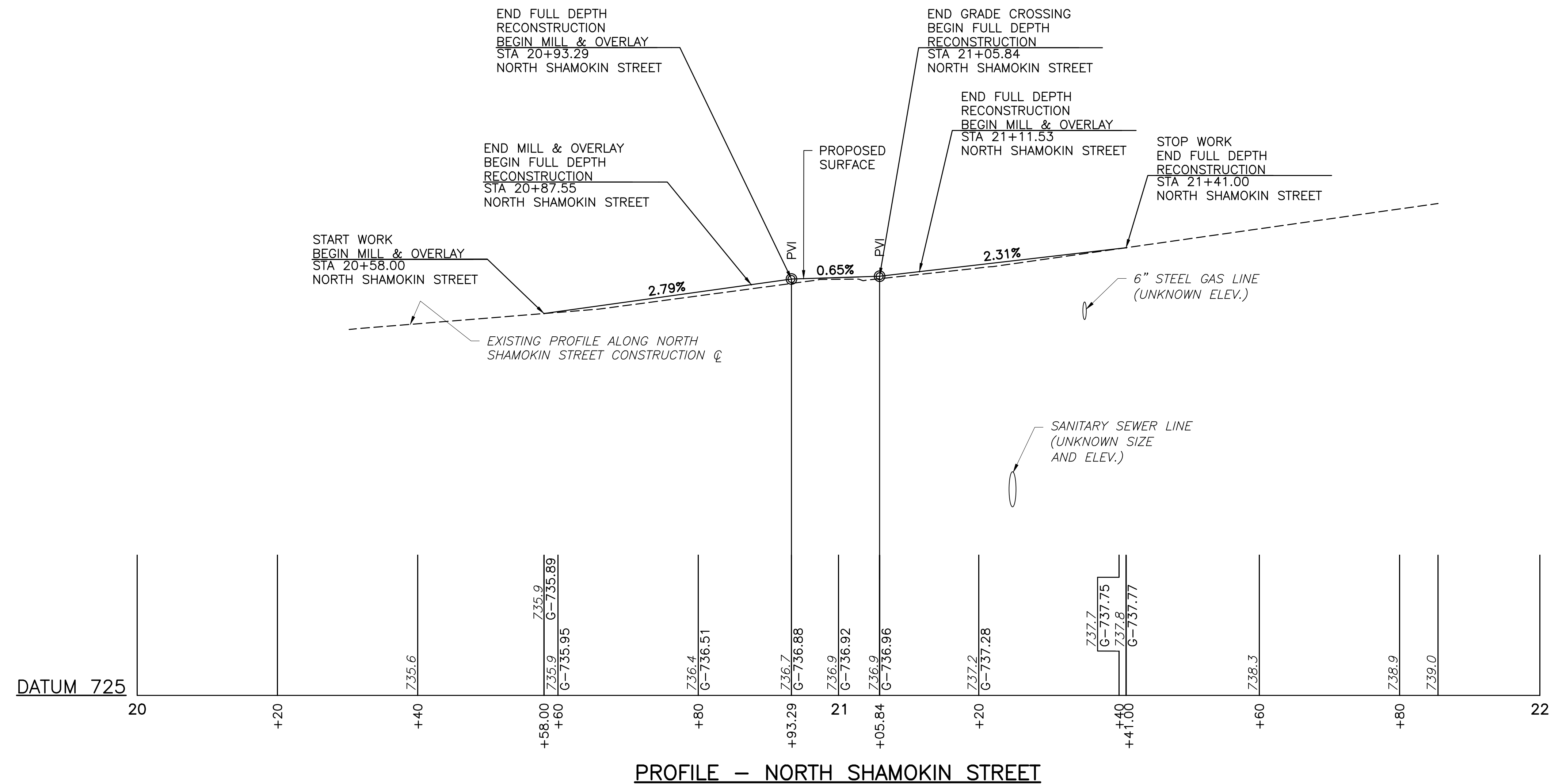
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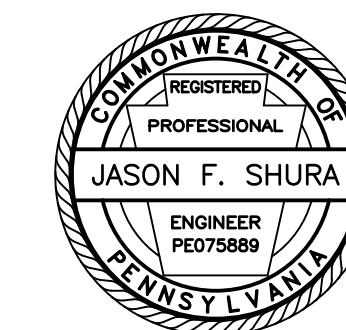
ROAD PROFILE

PROJECT NO.	19-0001.186
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SCALE:	AS SHOWN

Drawing:

C3





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No.	Date	Description

Sheet Title:

TYPICAL SECTIONS

PROJECT NO. 19-0001.186

DRAWN BY: JDD

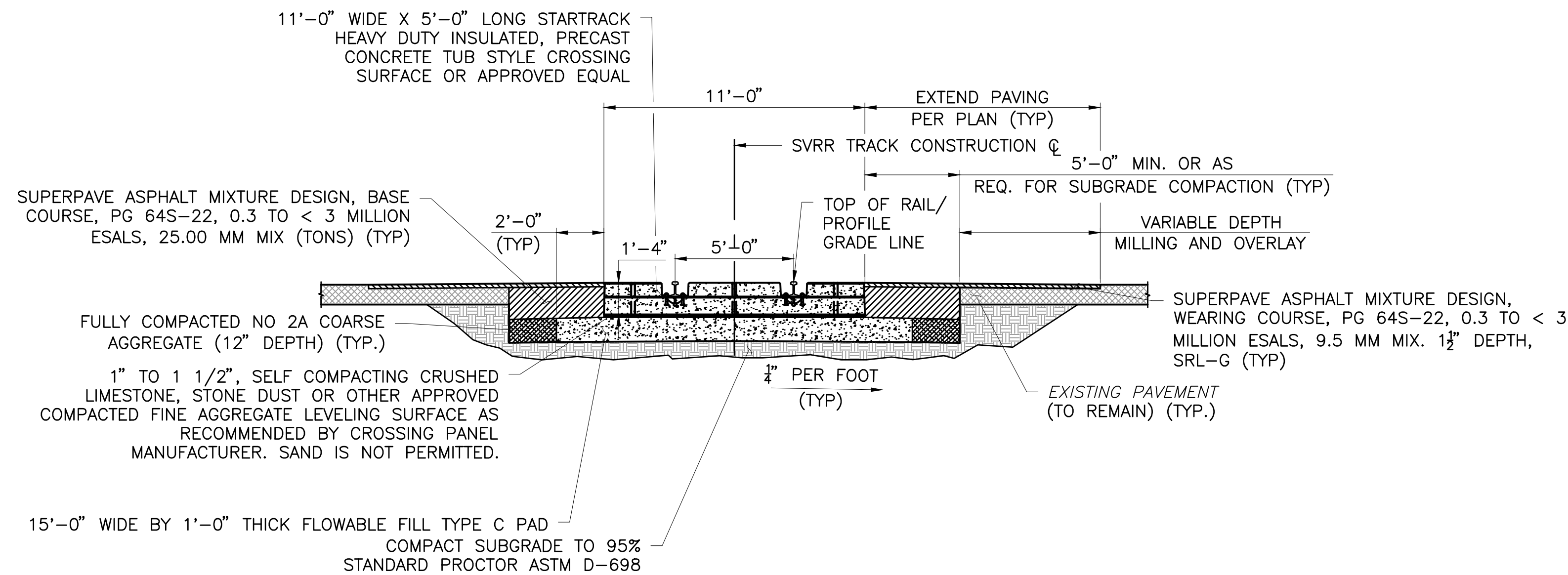
DESIGNED BY: JES

CHECKED BY: JES

SCALE: AS SHOWN

Drawing:

C4



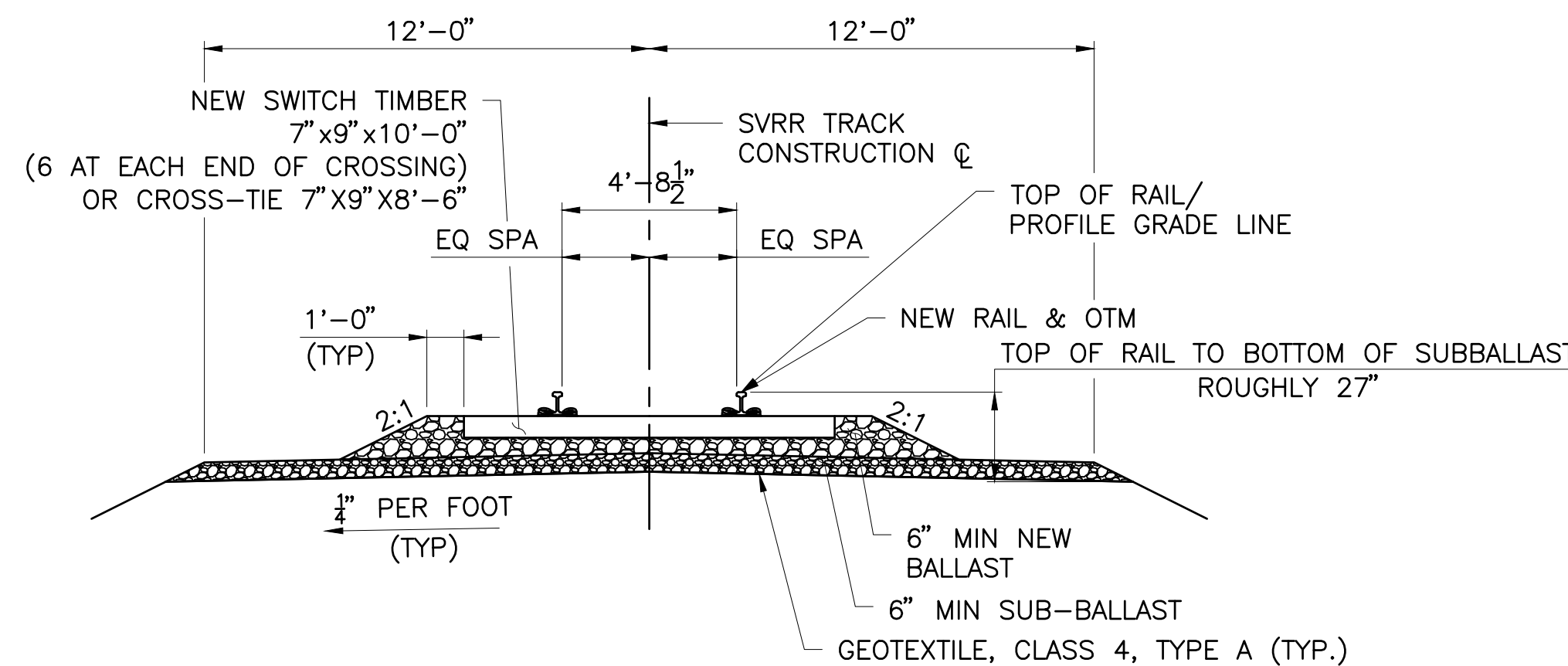
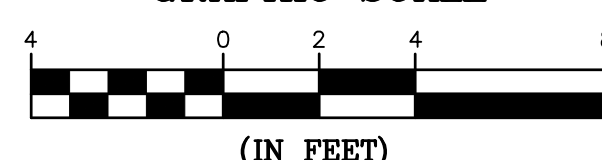
TYPICAL PRECAST CONCRETE TUB STYLE GRADE CROSSING SECTION

STA. 995+00.52 TO STA. 996+20.52

NOTES:

1. FLOWABLE FILL PAD SHALL EXTEND AT LEAST 1'-0" LONGITUDINALLY BEYOND END OF CROSSING PANELS IN EACH DIRECTION. LIMIT EXTENSION OF PAD SO AS NOT TO ENCRoACH ON ADJACENT APPROACHING STANDARD TIE AND BALLASTED TRACK STRUCTURE.
2. SUPERELEVATE OUTSIDE (LEFT) RAIL 1/4" (SEE PROFILE SHEET C3).

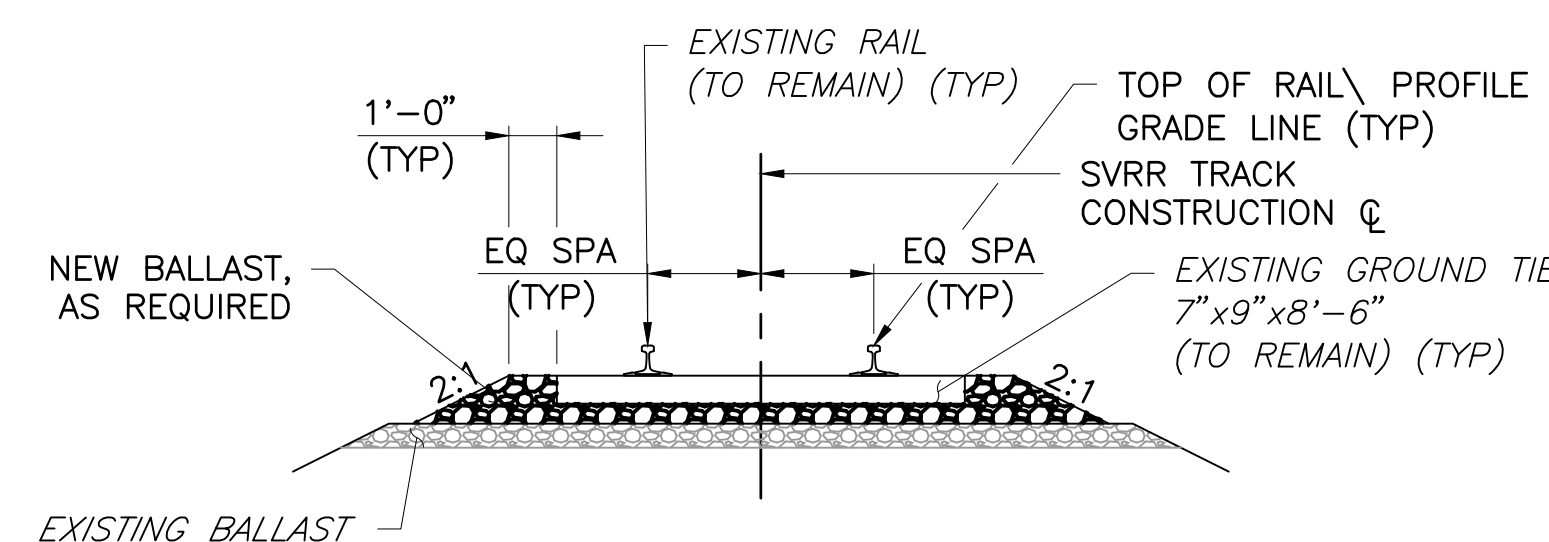
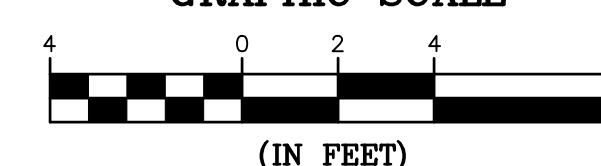
GRAPHIC SCALE



TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

STA. 994+61.52 TO STA. 995+00.52
STA. 996+20.52 TO STA. 996+36.52

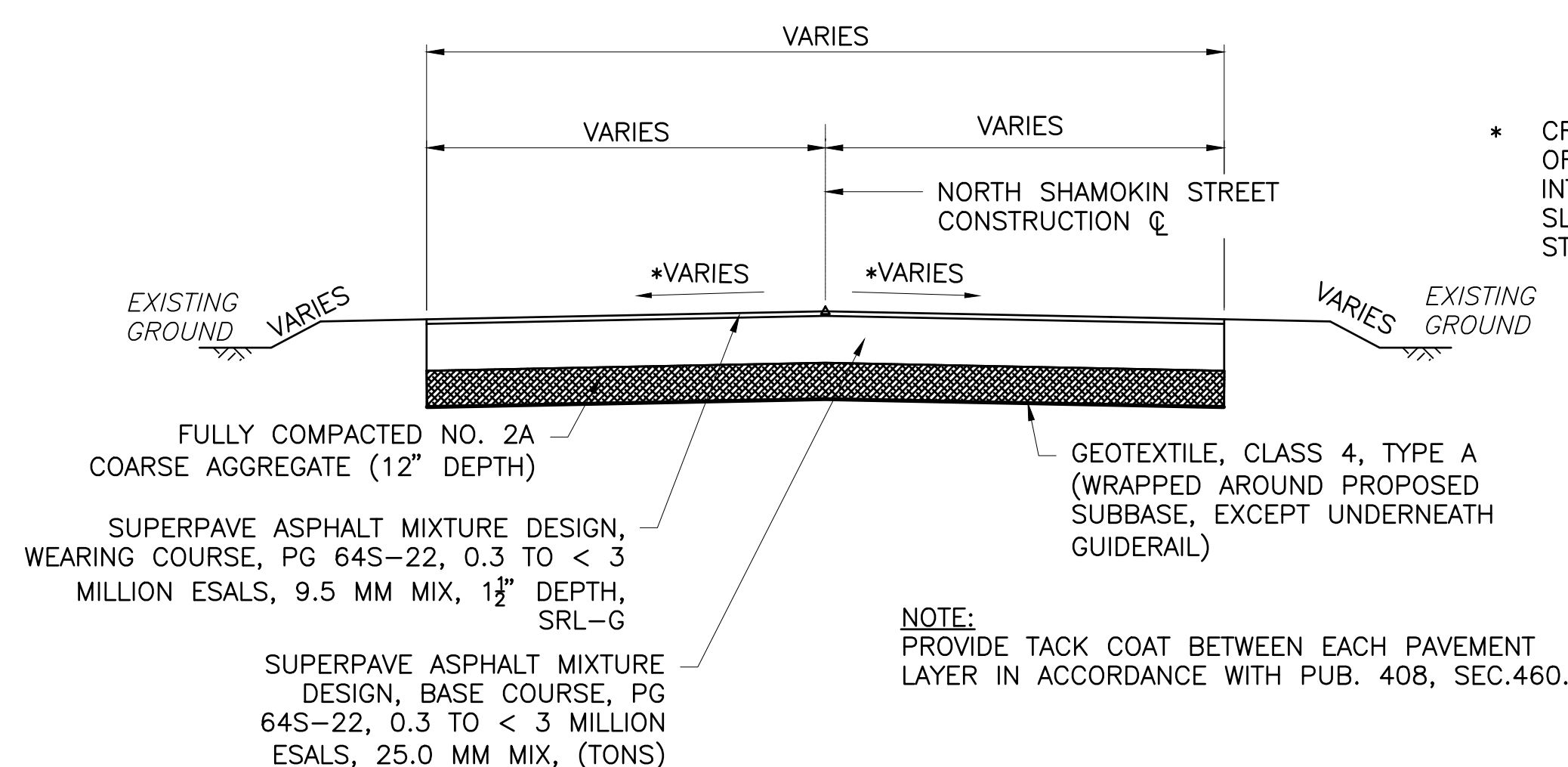
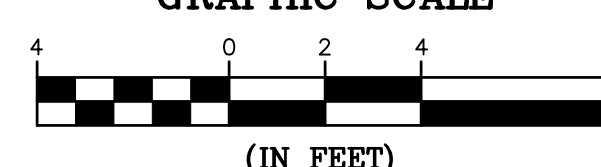
GRAPHIC SCALE



TYPICAL SECTION - REALIGN TRACK

STA. 993+60.00 TO STA. 994+61.52
STA. 996+36.52 TO STA. 997+25.00

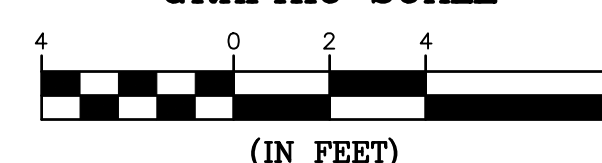
GRAPHIC SCALE



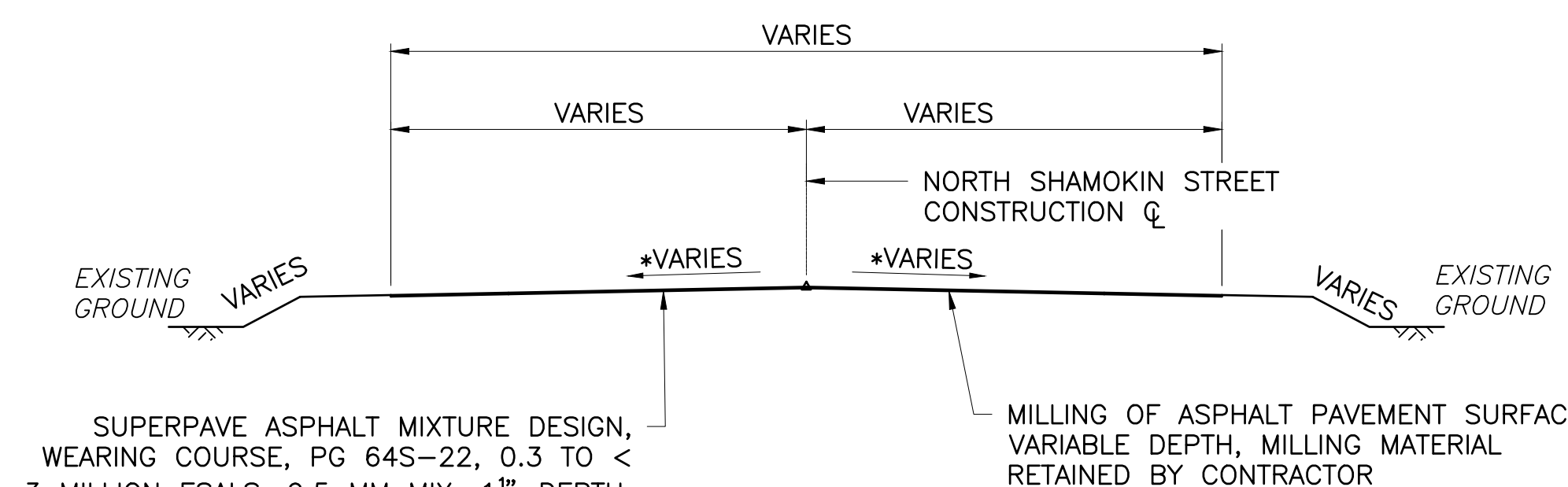
TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 20+87.55 TO STA. 20+93.29
STA. 21+05.84 TO STA. 21+11.53

GRAPHIC SCALE



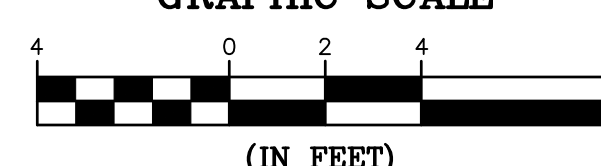
* CROSS SLOPES VARY OFF OF GRADE CROSSING TO TIE INTO EXISTING ROADWAY SLOPES AT START AND STOP WORK.



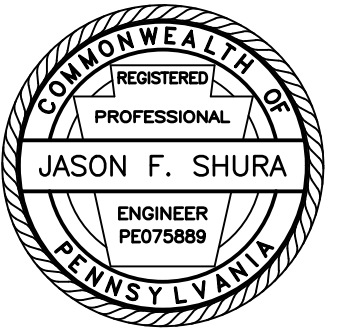
TYPICAL MILL & OVERLAY SECTION

STA. 20+58.00 TO STA. 20+87.55
STA. 21+11.53 TO STA. 21+41.00

GRAPHIC SCALE



* CROSS SLOPES VARY OFF OF GRADE CROSSING TO TIE INTO EXISTING ROADWAY SLOPES AT START AND STOP WORK.



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LEWISBURG, PA 17837

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SHAMOKIN VALLEY RAILROAD
NORTH SHAMOKIN STREET
GRADE CROSSING
REPLACEMENT PROJECT

2023-02

CITY OF SHAMOKIN
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

DETAILS

PROJECT NO. 19-0001.186

DRAWN BY: JDD

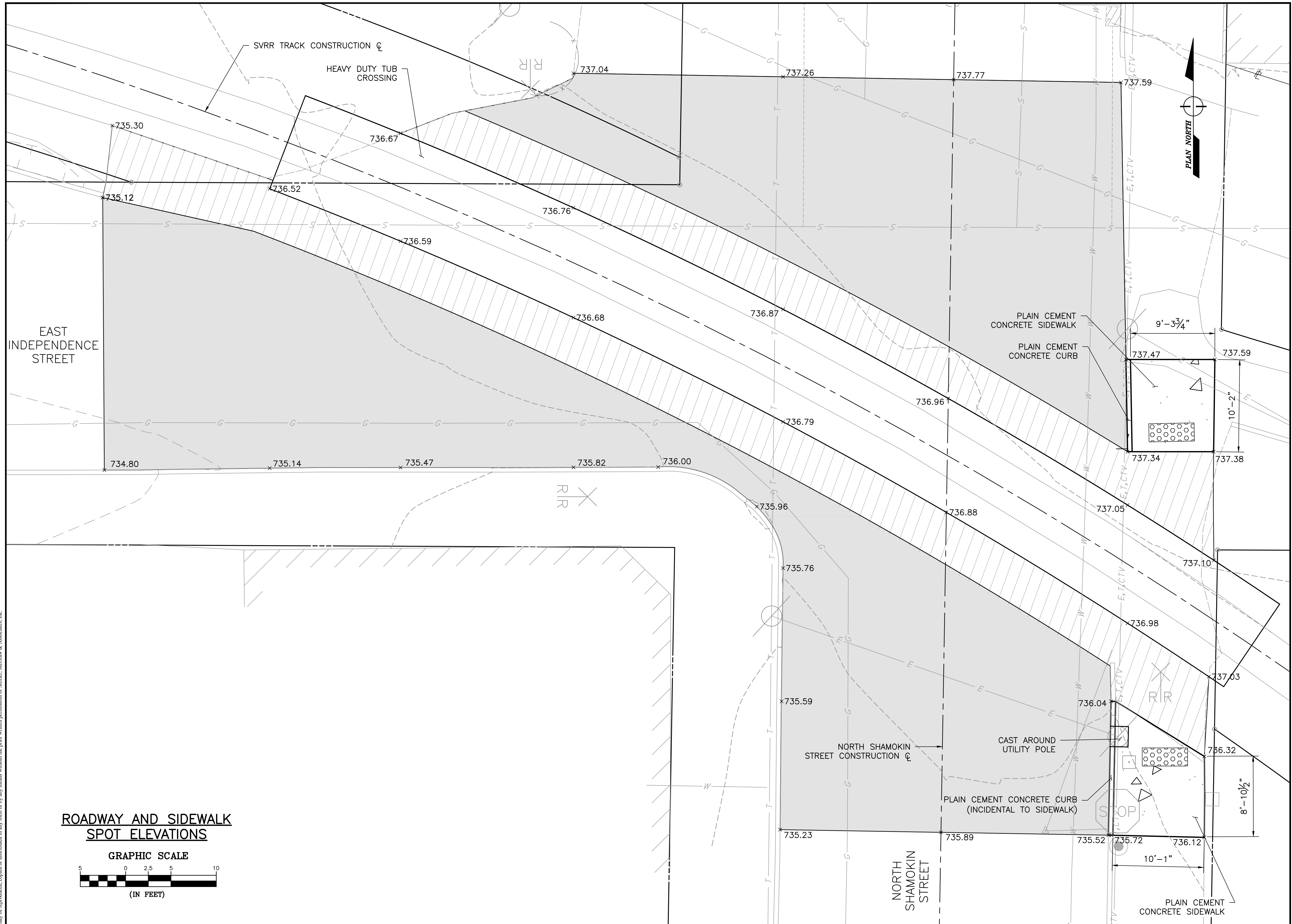
DESIGNED BY: JES

CHECKED BY: JES

SCALE: AS SHOWN

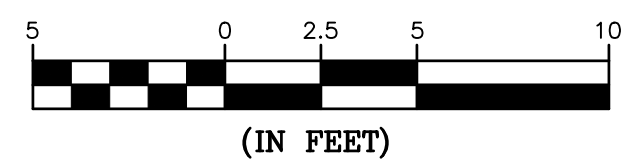
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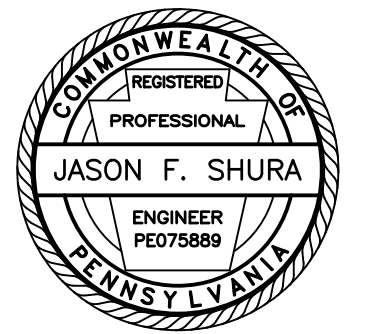
C5



**ROADWAY AND SIDEWALK
SPOT ELEVATIONS**

GRAPHIC SCALE





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REPLACEMENT PROJECT

2023-02

CITY OF SHAMOKIN
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETOUR PLAN

PROJECT NO. 19-0001.186

DRAWN BY: AMG

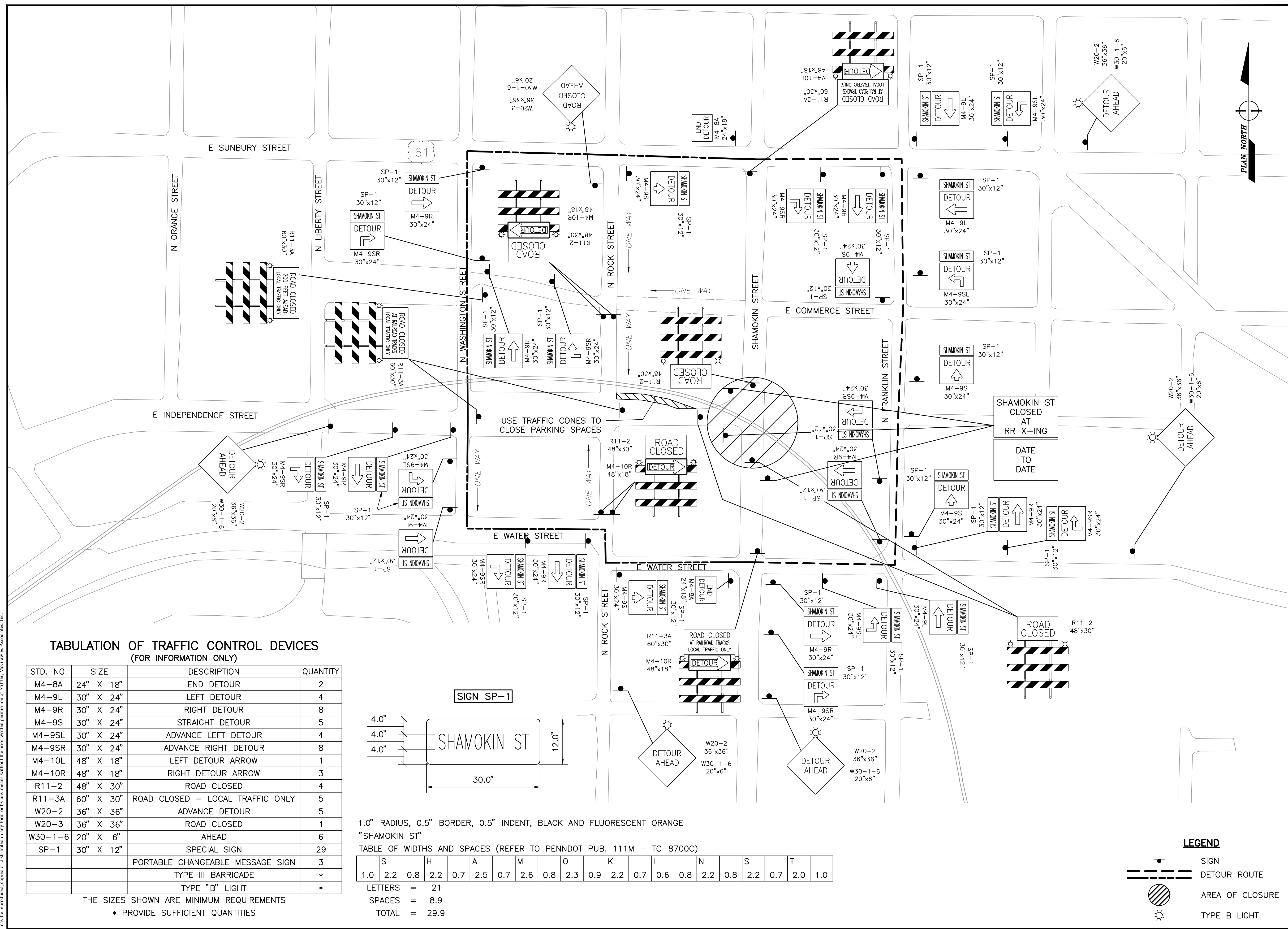
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CHECKED BY: CEB

SCALE: AS SHOWN

Drawing:

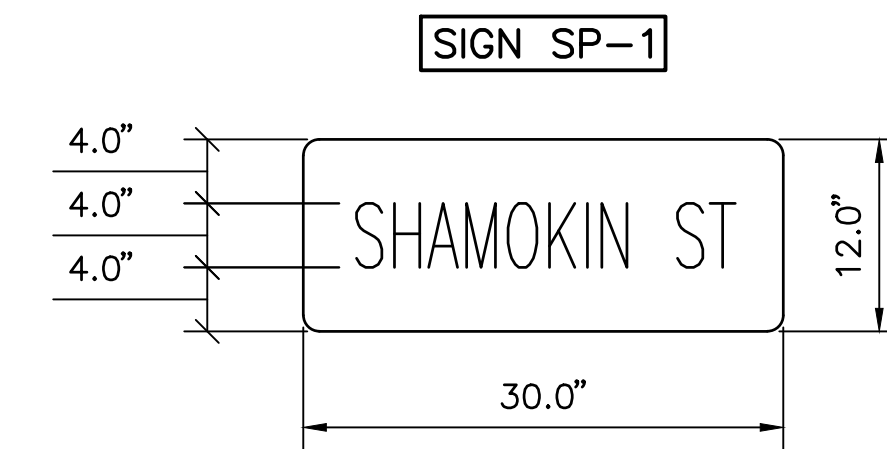
TC1



TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	4
M4-9R	30" X 24"	RIGHT DETOUR	8
M4-9S	30" X 24"	STRAIGHT DETOUR	5
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	4
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	8
M4-10L	48" X 18"	LEFT DETOUR ARROW	1
M4-10R	48" X 18"	RIGHT DETOUR ARROW	3
R11-2	48" X 30"	ROAD CLOSED	4
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	5
W20-2	36" X 36"	ADVANCE DETOUR	5
W20-3	36" X 36"	ROAD CLOSED	1
W30-1-6	20" X 6"	AHEAD	6
SP-1	30" X 12"	SPECIAL SIGN	29
		PORTABLE CHANGEABLE MESSAGE SIGN	3
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE

"SHAMOKIN ST"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

1.0	S	2.2	0.8	H	2.2	0.7	A	2.5	0.7	M	2.6	0.8	O	2.3	0.9	K	2.2	0.7	I	0.6	0.8	N	2.2	0.8	S	2.2	0.7	T	2.0	1.0
-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----	---	-----	-----

LETTERS = 21

SPACES = 8.9

TOTAL = 29.9

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SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD SHAMROCK ROAD GRADE CROSSING REPLACEMENT PROJECT

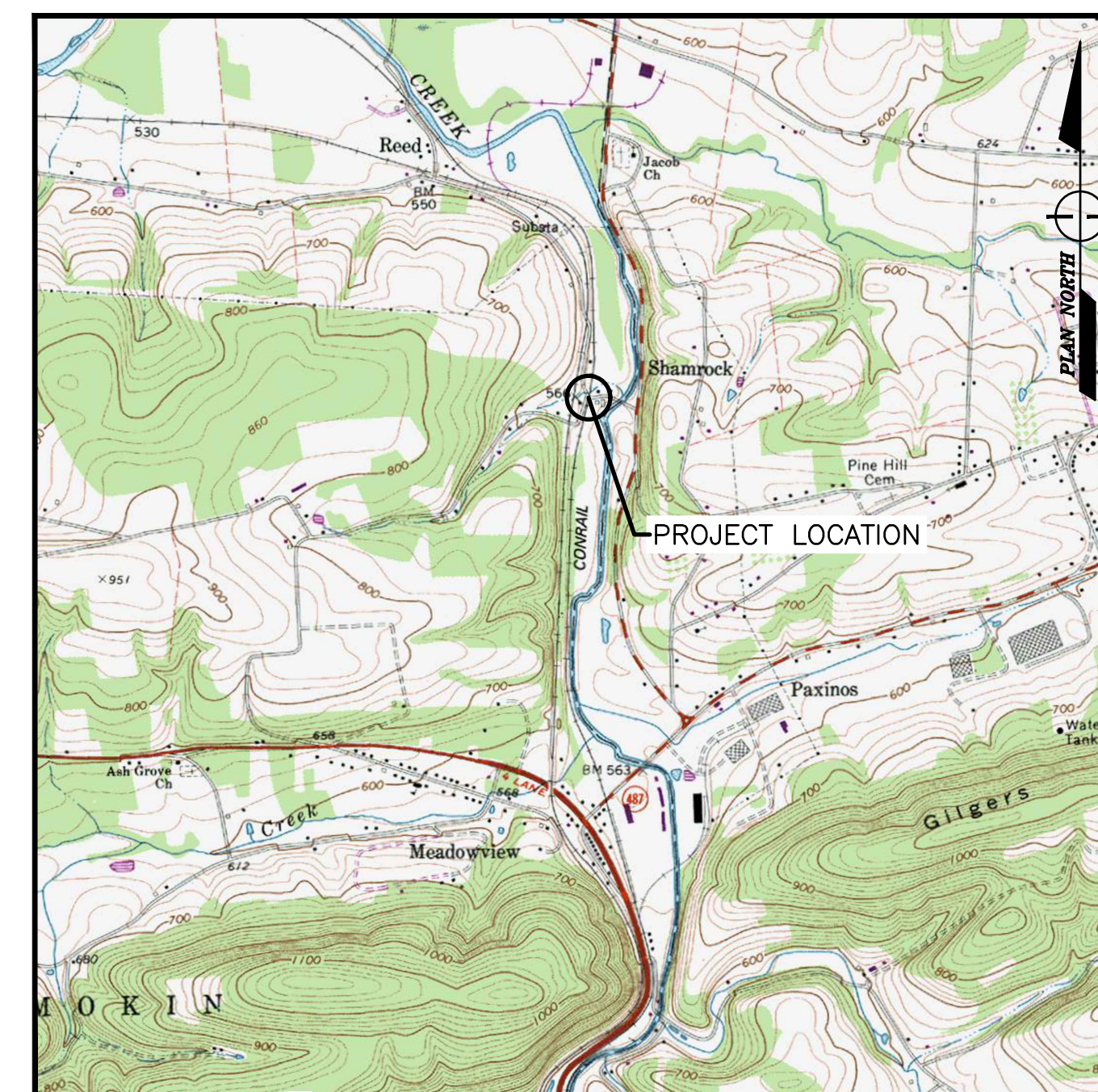
SHAMOKIN TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

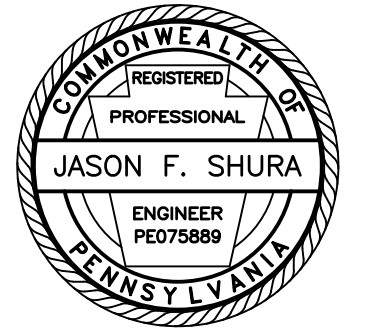
INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	TRACK PROFILE
C3	TRACK PROFILE
C4	TRACK PROFILE
C5	TRACK PROFILE
C6	ROAD PROFILE
C7	PIPE CROSSING PROFILE
C8	TYPICAL SECTIONS
C9	DETAILS
ES1	EROSION AND SEDIMENT POLLUTION CONTROL NOTES
ES2	EROSION AND SEDIMENT POLLUTION CONTROL NOTES
ES3	EROSION AND SEDIMENT POLLUTION CONTROL DETAILS
ES4	EROSION AND SEDIMENT POLLUTION CONTROL DETAILS
ES5	EROSION AND SEDIMENT POLLUTION CONTROL DETAILS
ES6	EROSION AND SEDIMENT POLLUTION CONTROL DETAILS
ES7	EROSION AND SEDIMENT POLLUTION CONTROL PLAN
X1	CROSS SECTIONS
X2	CROSS SECTIONS
X3	CROSS SECTIONS
X4	CROSS SECTIONS
TC1	DETOUR PLAN
TC2	DETOUR PLAN



RIVERSIDE AND TREVORTON, PENNSYLVANIA, USGS TOPO QUADS
LOCATION MAP
SCALE: 1" = 2000'



1731 N. Juniata Street
Holidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



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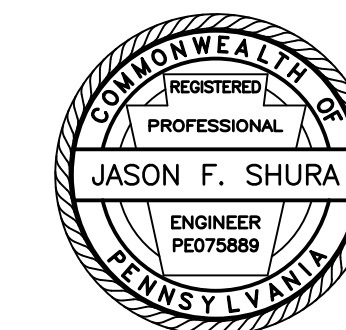
Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.183
DRAWN BY:	BRB
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1



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Sheet Title:

SITE PLAN

PROJECT NO. 19-0001.183

DRAWN BY: AMG

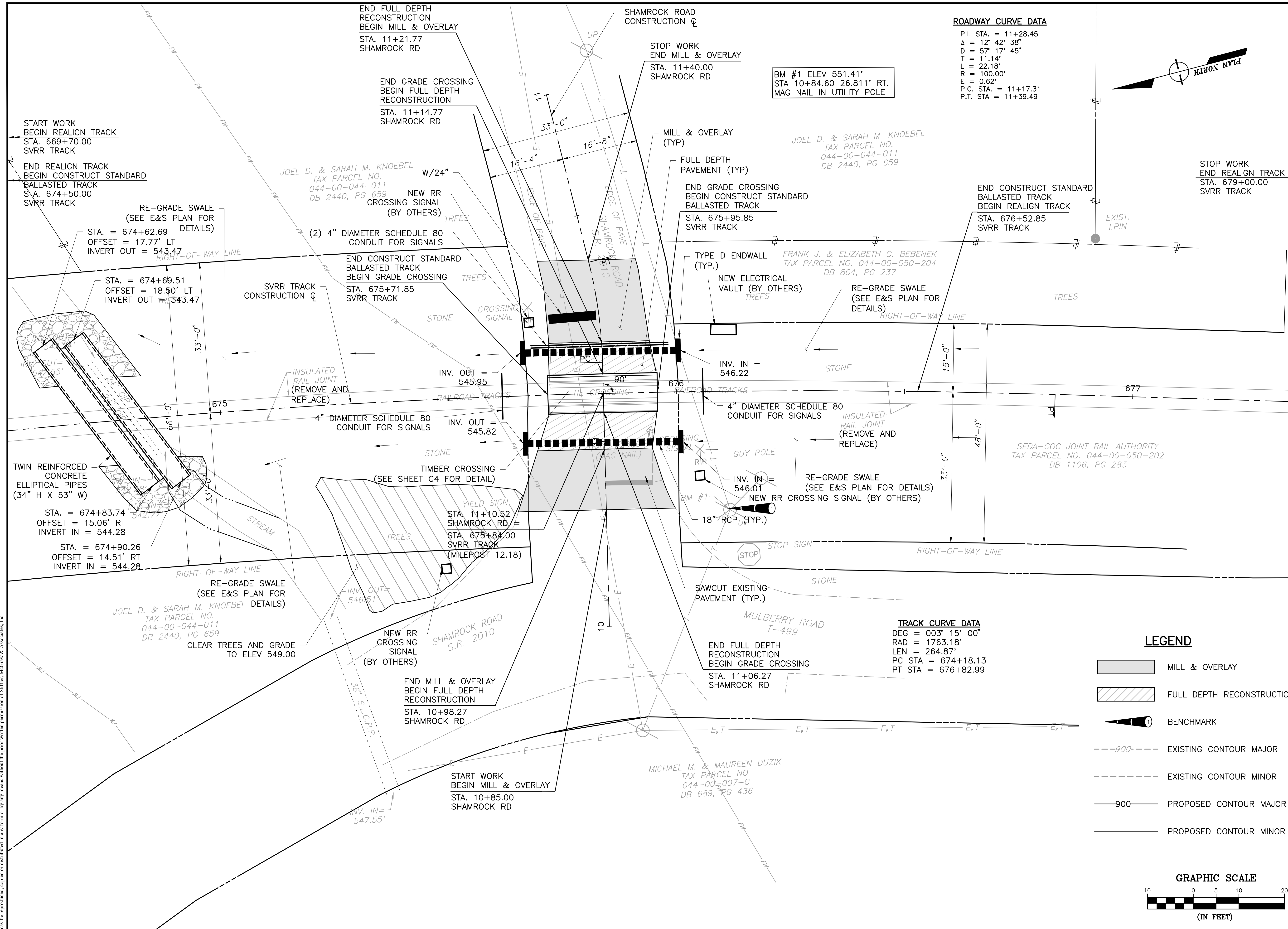
DESIGNED BY: JES

CHECKED BY: JFS

SCALE: AS SHOWN

Drawing:

C1



ROADWAY CURVE DATA

P.I. STA. = 11+28.45
Δ = 12° 42' 38"
D = 57' 17" 45"
T = 11.14'
L = 22.18'
R = 100.00'
E = 0.62'
P.C. STA. = 11+17.31
P.T. STA. = 11+39.49

BM #1 ELEV 551.41'
STA 10+84.60 26.811' RT.
MAG NAIL IN UTILITY POLE

JOEL D. & SARAH M. KNOEBEL
TAX PARCEL NO.
044-00-044-011
DB 2440, PG 659

FRANK J. & ELIZABETH C. BEBENEK
TAX PARCEL NO. 044-00-050-204
DB 804, PG 237

SEDA-COG JOINT RAIL AUTHORITY
TAX PARCEL NO. 044-00-050-202
DB 1106, PG 283

MICHAEL M. & MAUREEN DUZIK
TAX PARCEL NO.
044-00-007-C
DB 689, PG 436

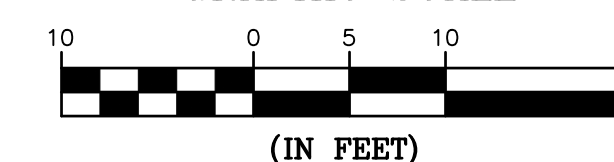
TRACK CURVE DATA

DEG = 003° 15' 00"
RAD = 1763.18'
LEN = 264.87'
PC STA = 674+18.13
PT STA = 676+82.99

LEGEND

- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR

GRAPHIC SCALE



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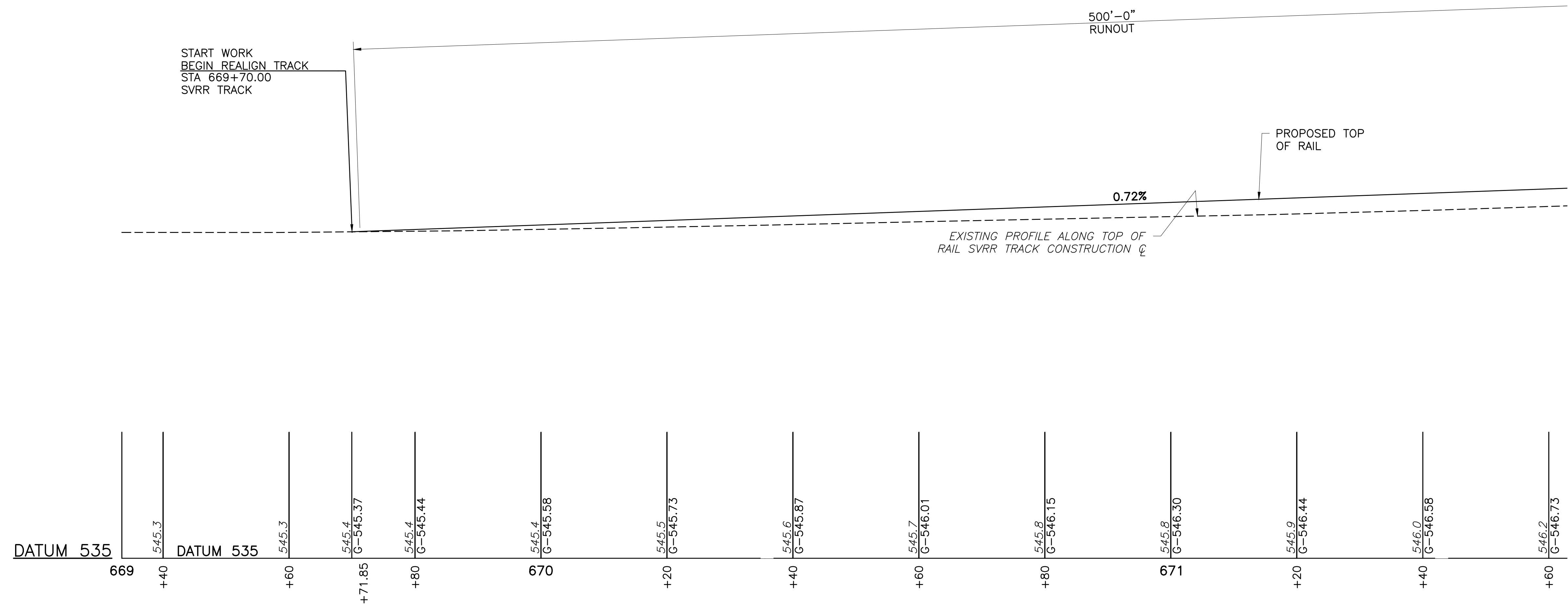
Owner:
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SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

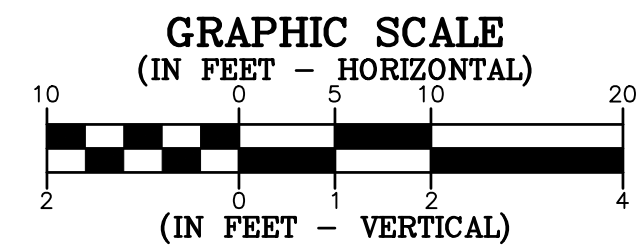
CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS



PROFILE - SVRR TRACK



SEE SHEET C3

Revisions:

No.	Date	Description
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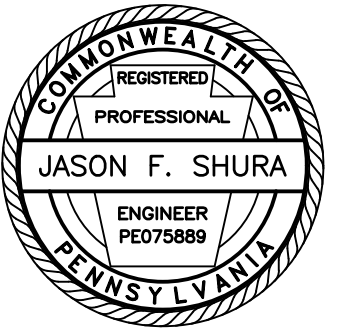
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TRACK PROFILE

PROJECT NO.	19-0001.183
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DESIGNED BY:	JES
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SCALE:	AS SHOWN

Drawing:

C2



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NORTHUMBERLAND COUNTY

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No.	Date	Description
△		

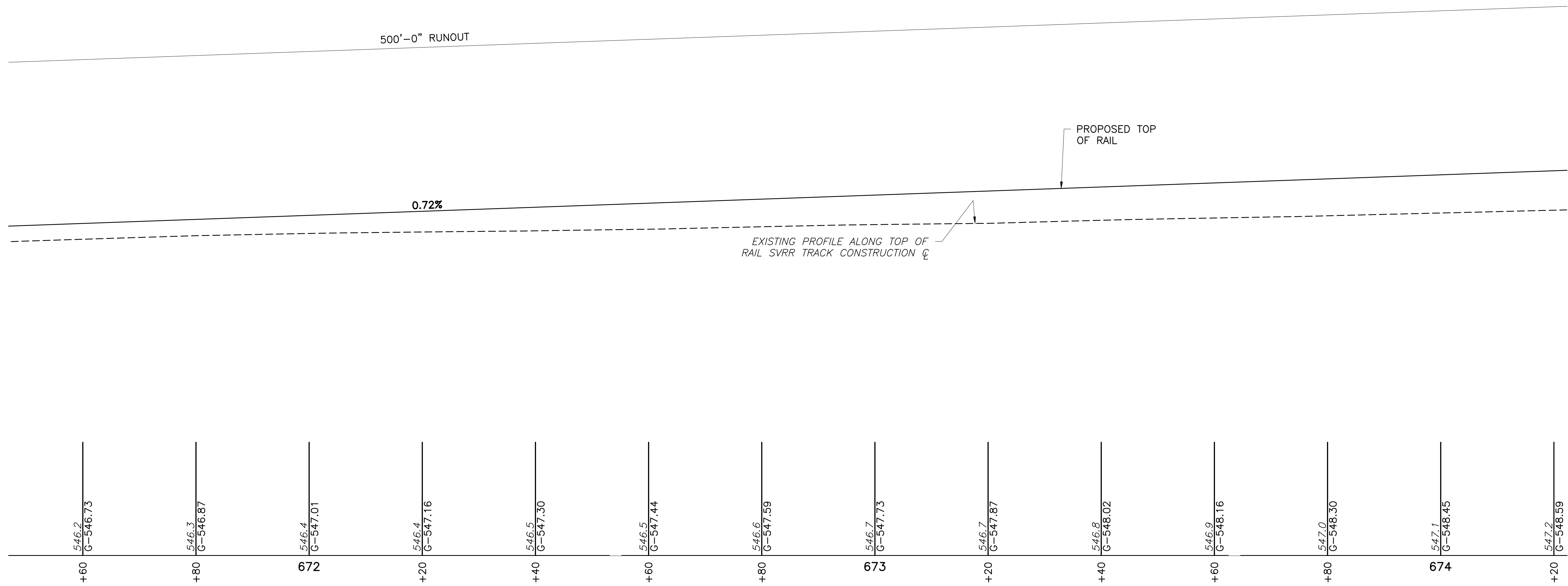
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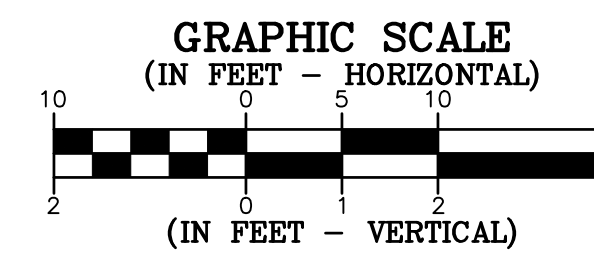
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DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

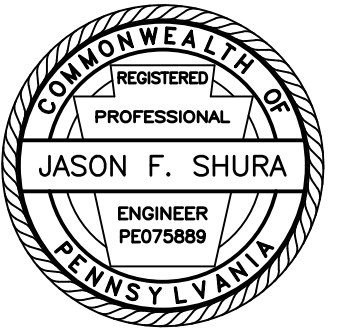
C3



PROFILE - SVRR TRACK



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PROJECT

CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
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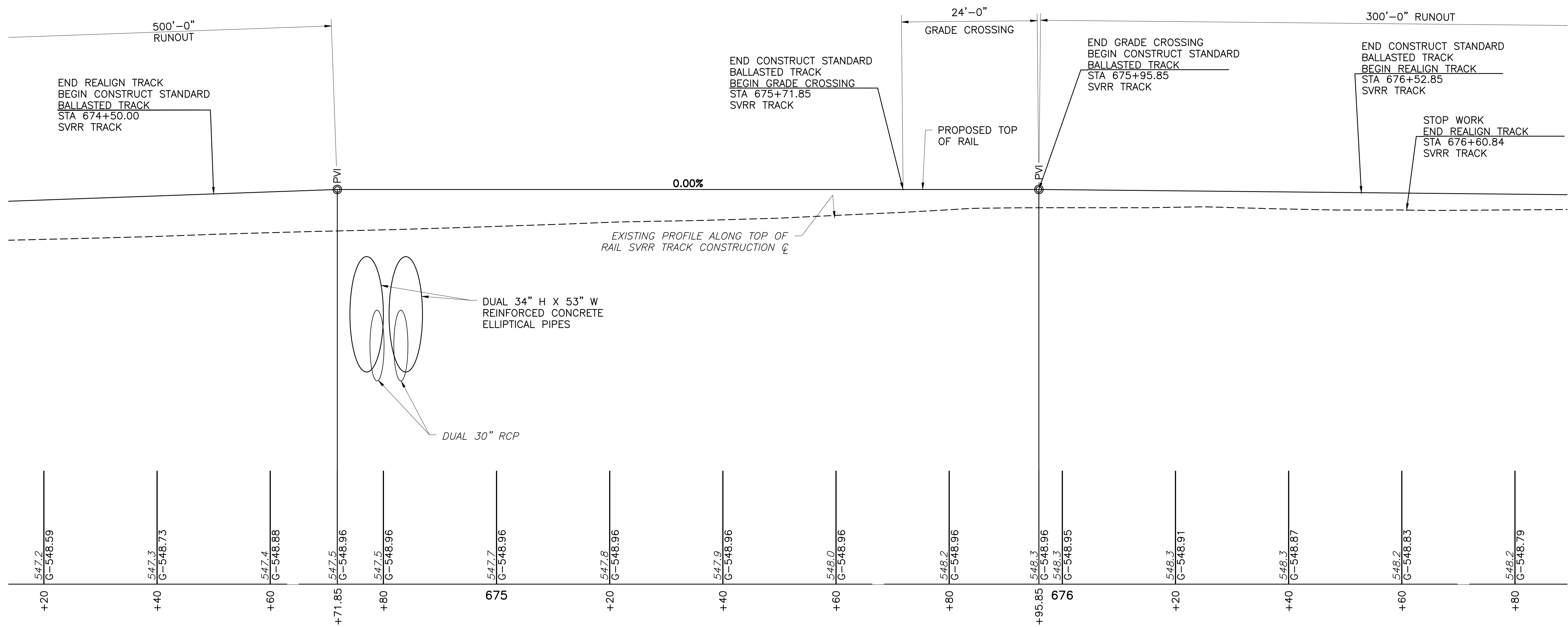
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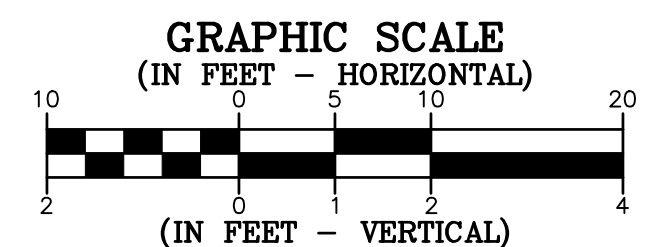
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DRAWN BY:	AMG
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SCALE:	AS SHOWN

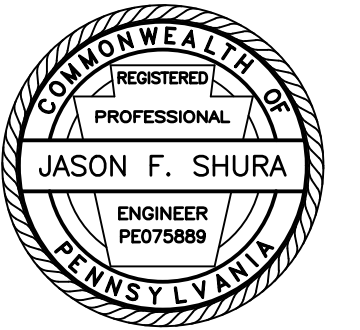
Drawing:

C4



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NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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No.	Date	Description
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Sheet Title:

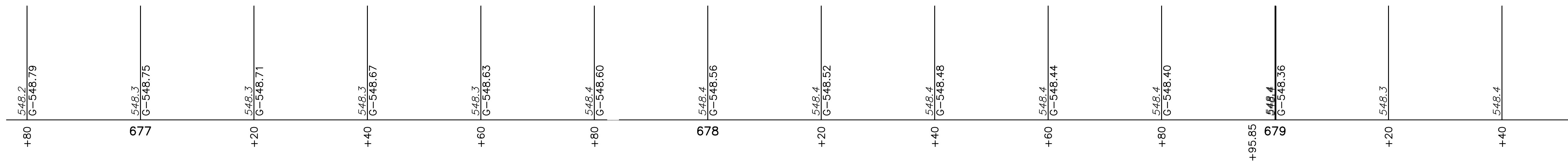
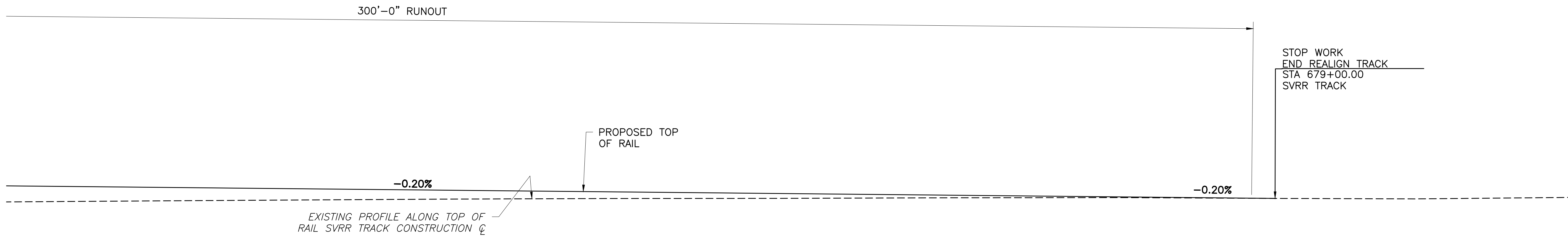
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PROJECT NO. 19-0001.183
DRAWN BY: AMG
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SCALE: AS SHOWN

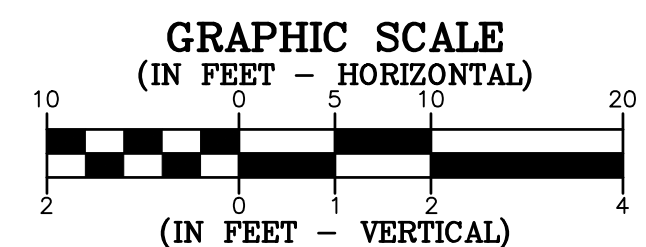
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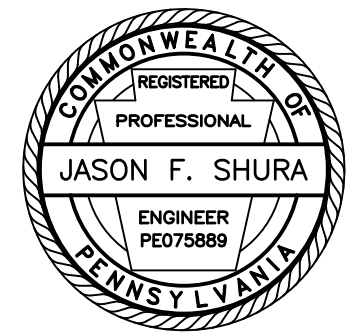
C5

SEE SHEET C4



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PROJECT

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SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
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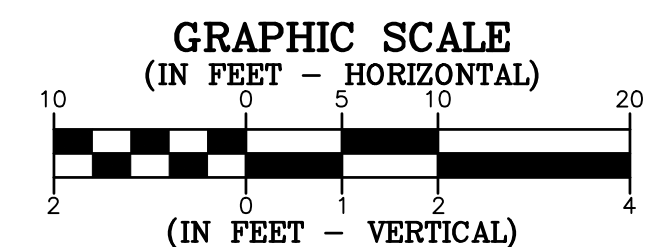
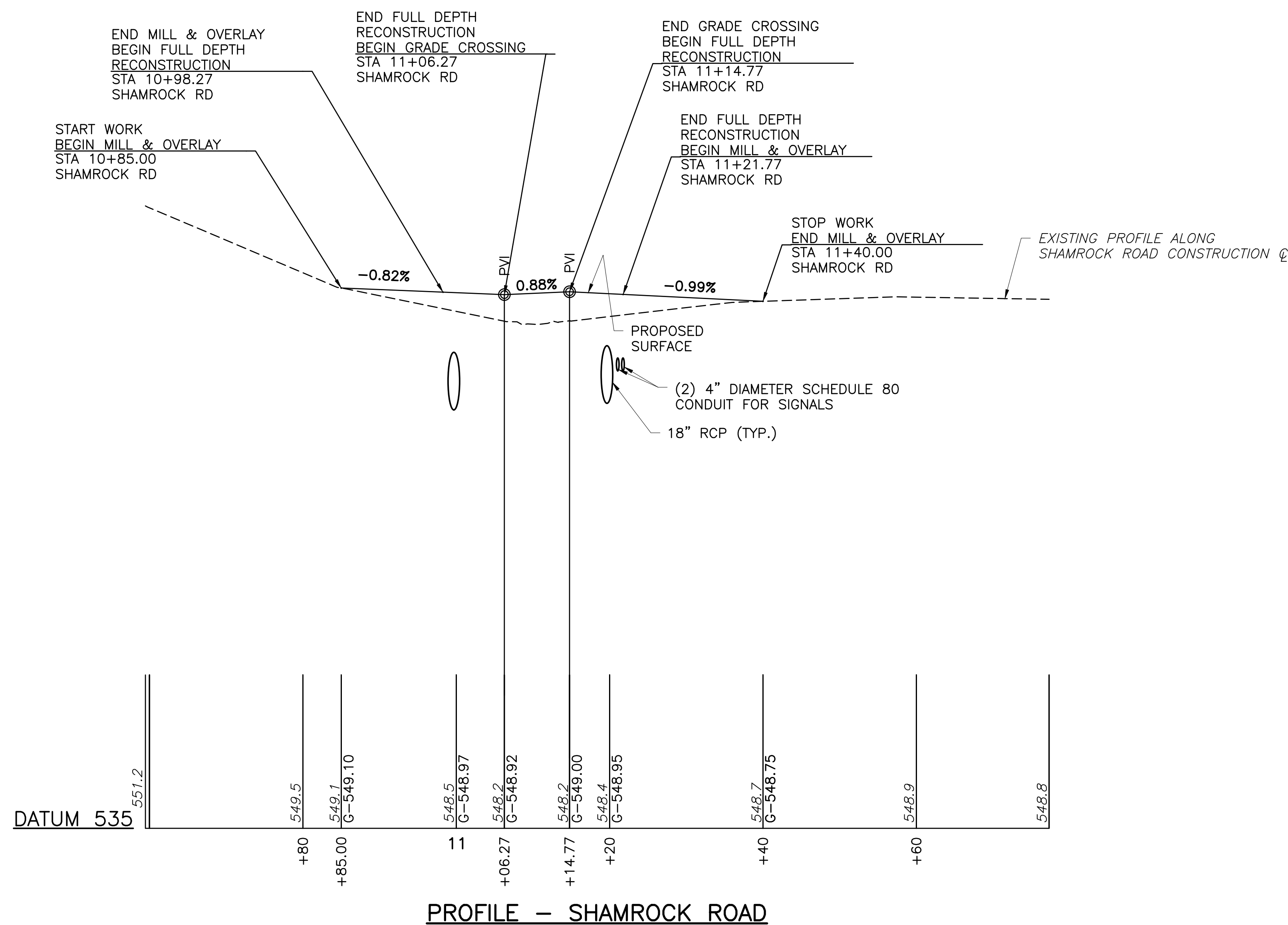
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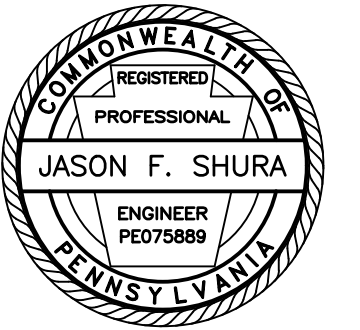
ROAD PROFILE

PROJECT NO. 19-0001.183
DRAWN BY: AMG
DESIGNED BY: JES
CHECKED BY: JFS
SCALE: AS SHOWN

Drawing:

C6





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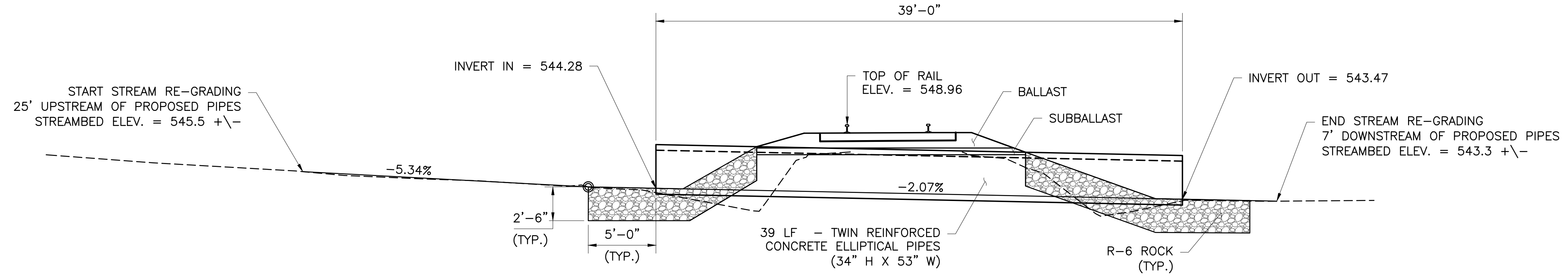
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Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

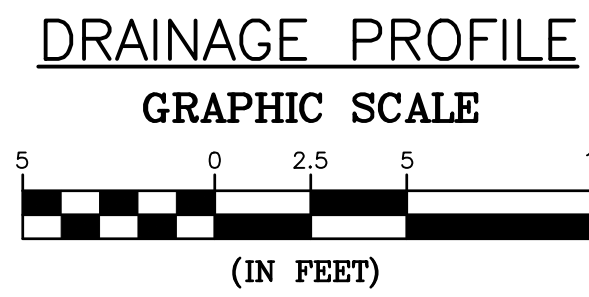
CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS



DATUM 535



Revisions:

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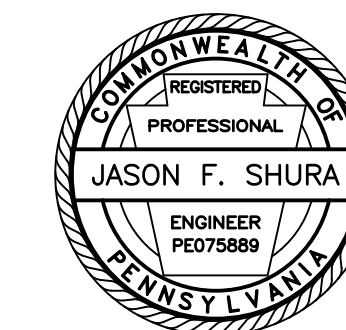
Sheet Title:

**PIPE CROSSING
PROFILE**

PROJECT NO.	19-0001.183
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

C7



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LEWISBURG, PA 17837

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SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

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NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

TYPICAL SECTIONS

PROJECT NO. 19-0001.183

DRAWN BY: AMG

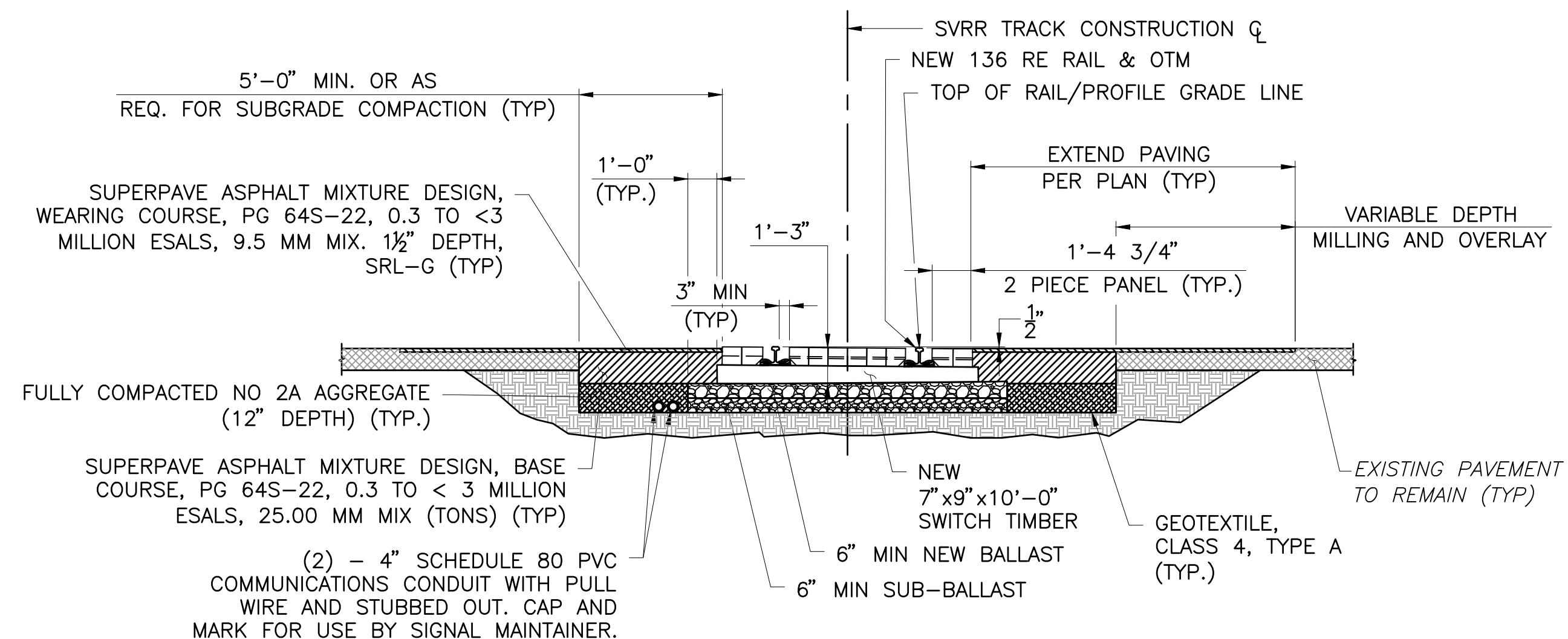
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CHECKED BY: JFS

SCALE: AS SHOWN

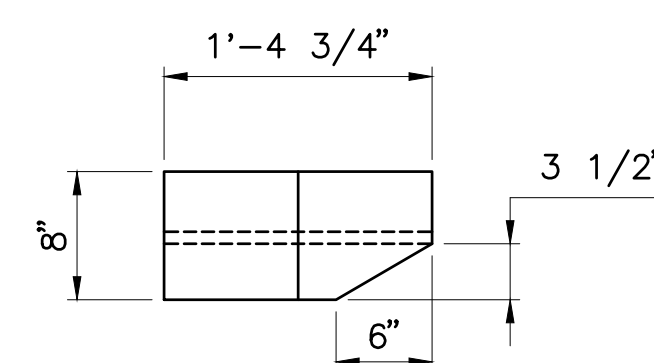
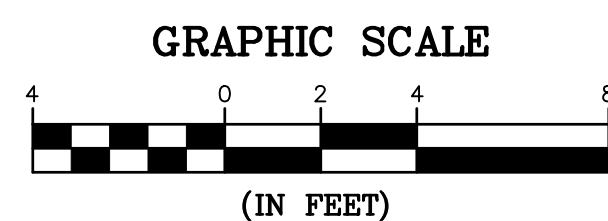
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C8

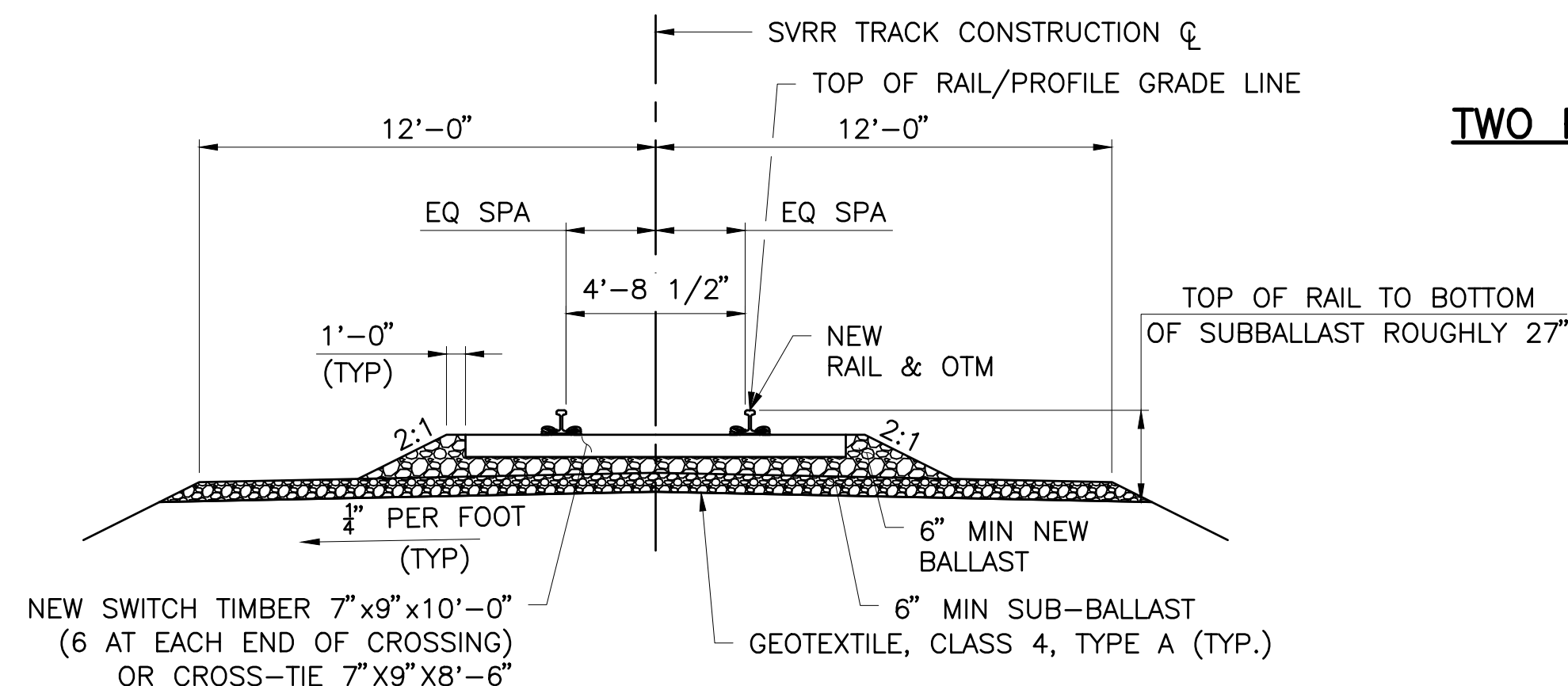


TYPICAL CONSTRUCT TIMBER CROSSING SECTION

STA. 675+71.85 TO STA. 675+95.85

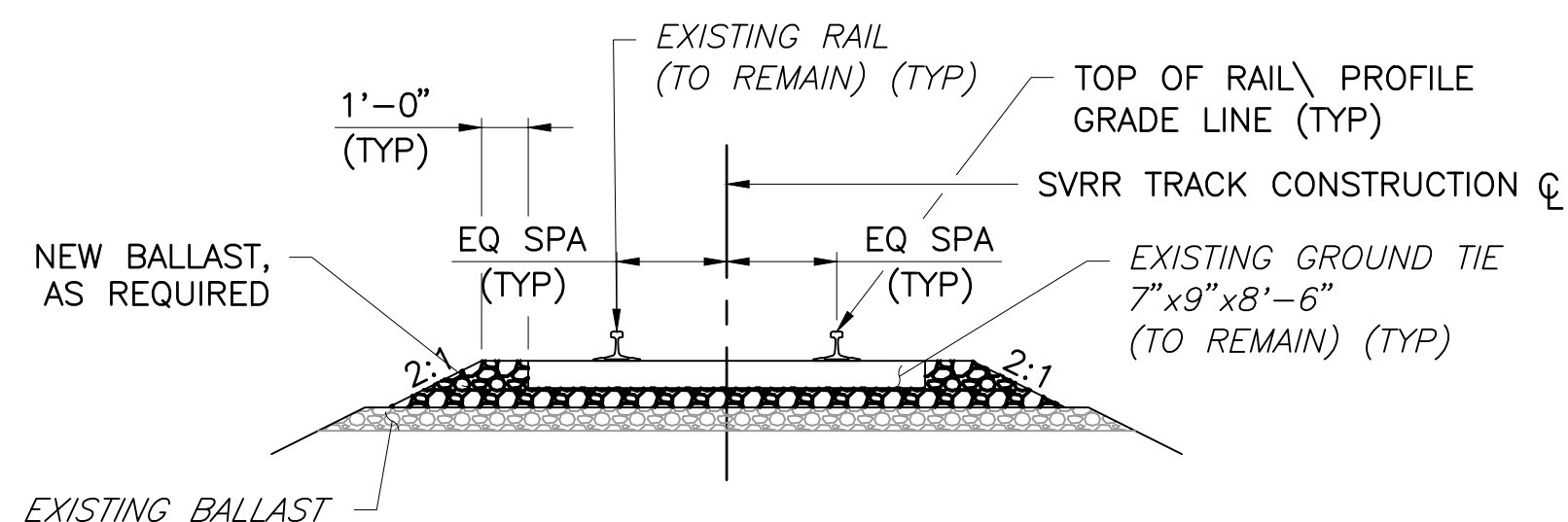
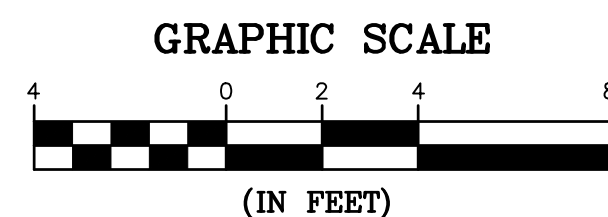


TWO PIECE PANEL DETAIL
NOT TO SCALE



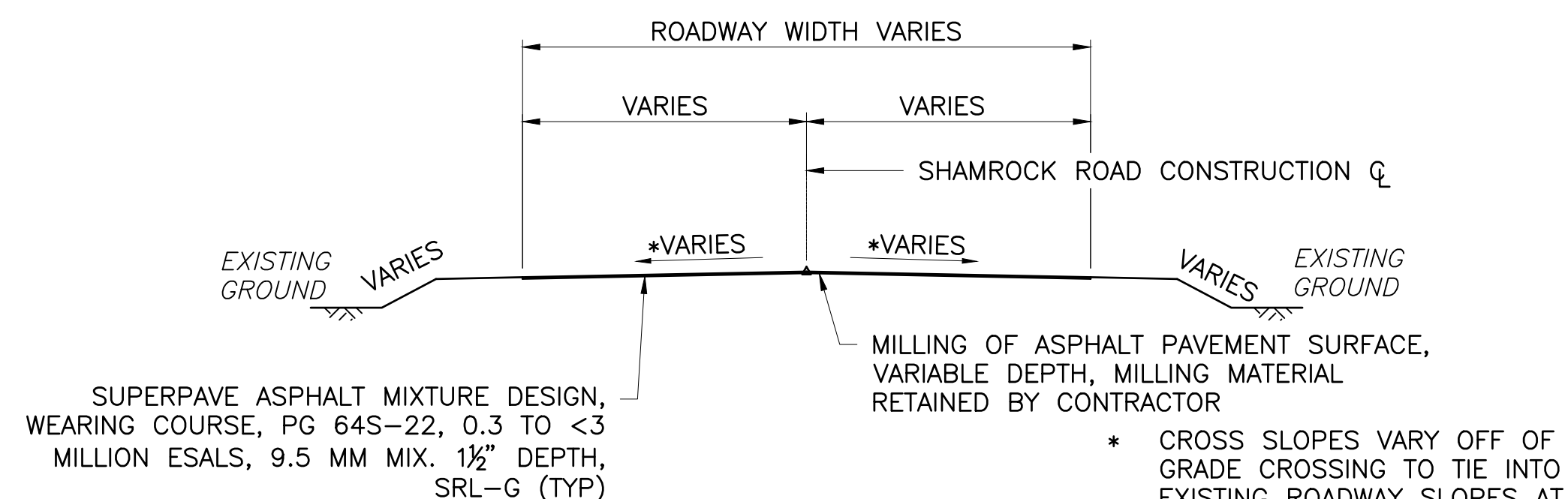
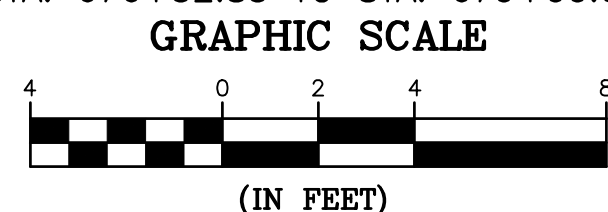
TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

STA. 674+50.00 TO STA. 675+71.85
STA. 675+95.85 TO STA. 676+52.85



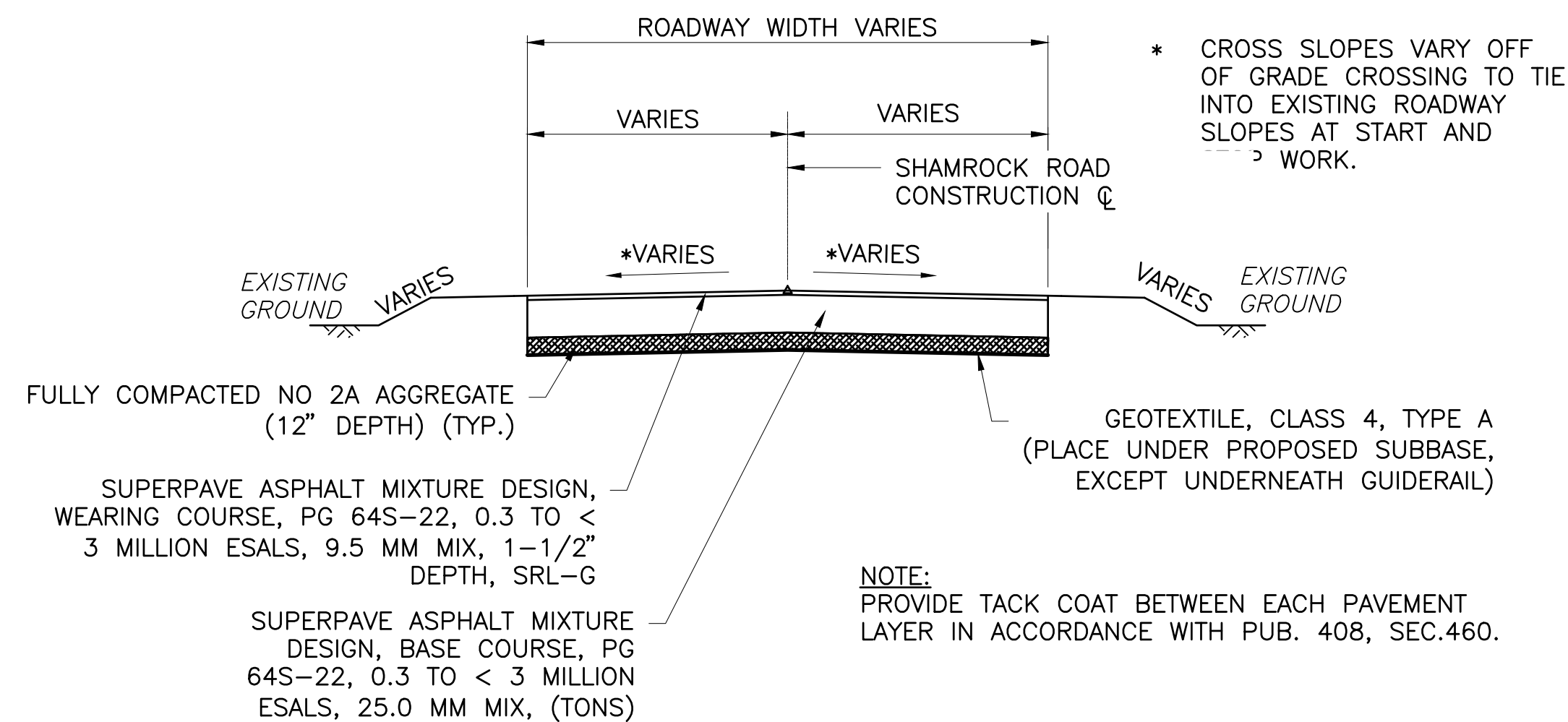
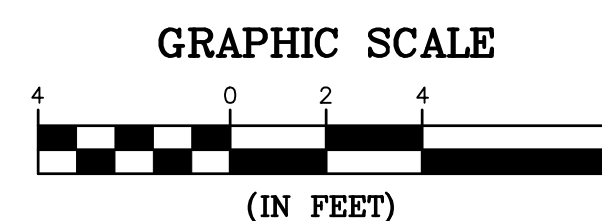
TYPICAL SECTION - REALIGN TRACK

STA. 669+70.00 TO STA. 674+50.00
STA. 676+52.85 TO STA. 679+00.00



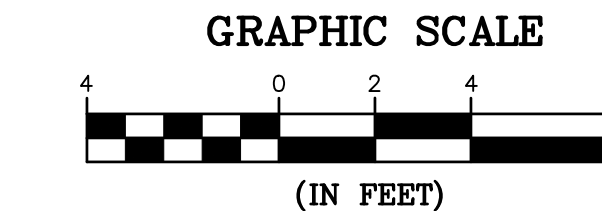
TYPICAL MILL & OVERLAY SECTION

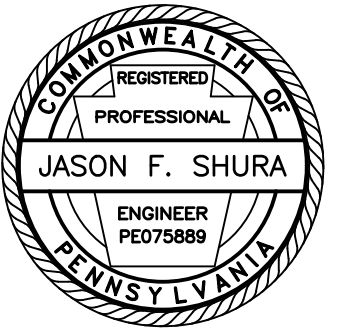
STA. 10+85.00 TO STA. 10+98.27
STA. 11+21.77 TO STA. 11+40.00



TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 10+98.27 TO STA. 11+06.27
STA. 11+14.77 TO STA. 11+21.77





Stiffler, McGraw & Associates, Inc.

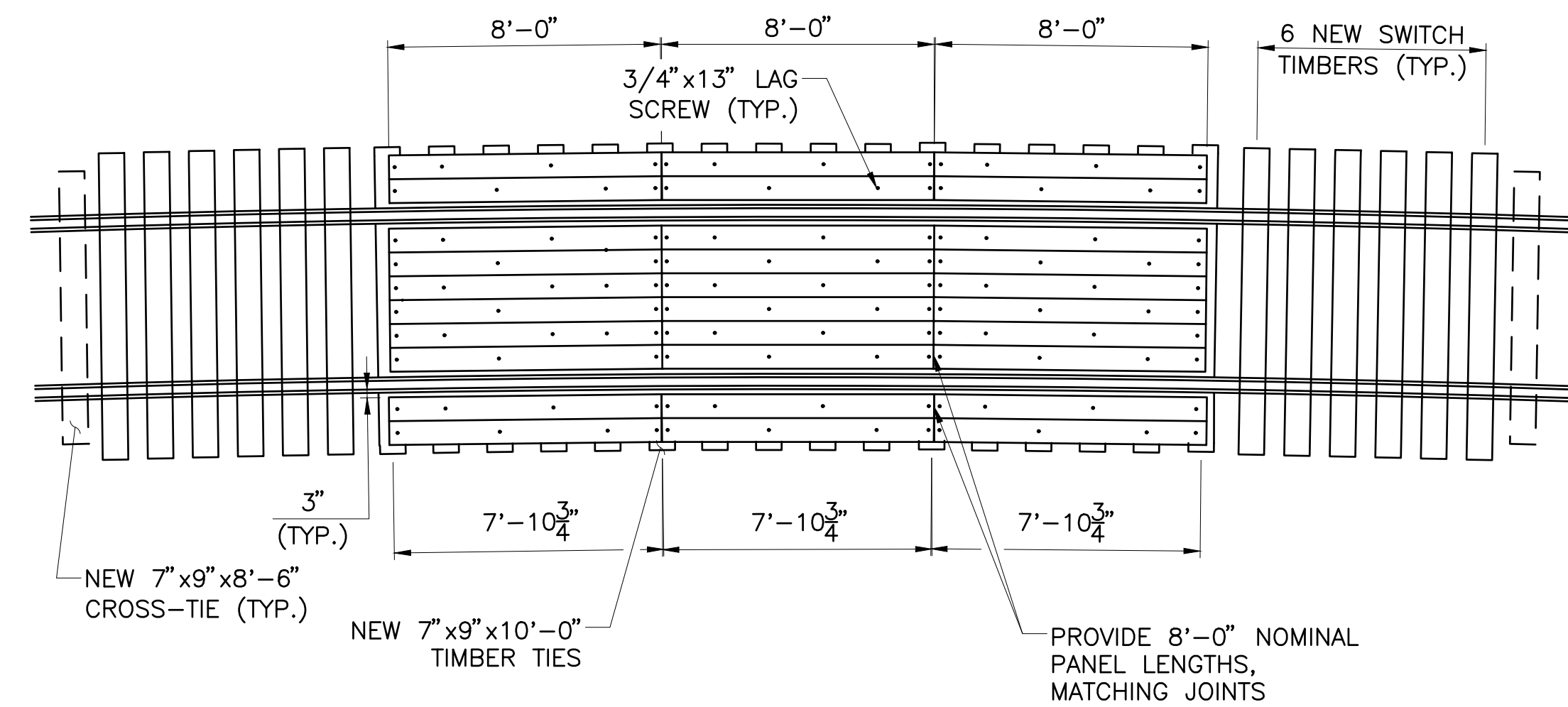
Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

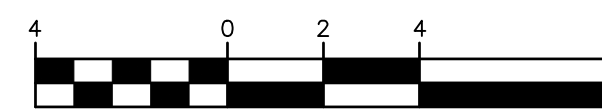
SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

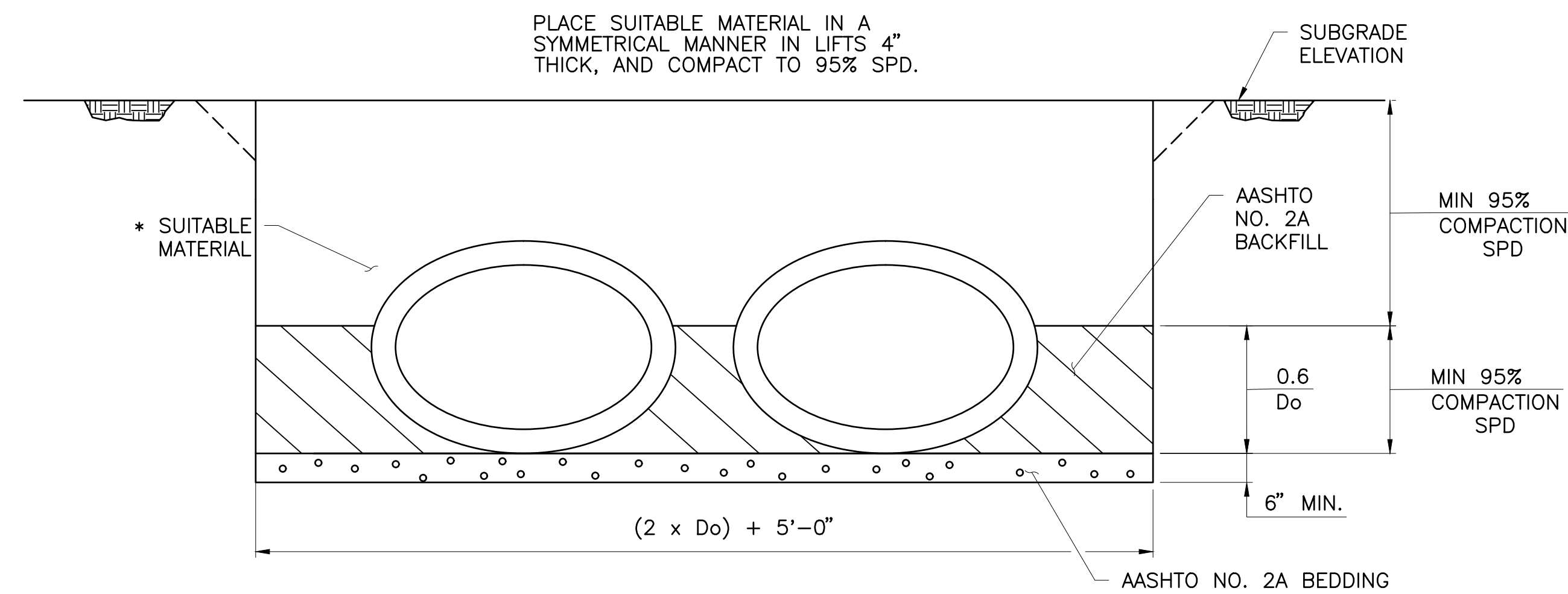


AT-GRADE CROSSING PLAN

GRAPHIC SCALE



(IN FEET)



TYPICAL SECTION CONCRETE PIPE CULVERT

GRAPHIC SCALE



(IN FEET)

Revisions:

No.	Date	Description

Sheet Title:

DETAILS

PROJECT NO. 19-0001.183

DRAWN BY: AMG

DESIGNED BY: JES

CHECKED BY: JFS

SCALE: AS SHOWN

Drawing:

C9

SHEET INDEX

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EROSION & SEDIMENT POLLUTION CONTROL DETAILS	ES-3 THRU ES-6
EROSION & SEDIMENT POLLUTION CONTROL PLAN	ES-7

GENERAL EROSION CONTROL NOTES

- IN ADDITION TO THE SPECIFIC PROCEDURES FOR EROSION AND SEDIMENT POLLUTION CONTROL INDICATED ON THE DRAWINGS, THE CONTRACTOR SHALL ADHERE TO THE FOLLOWING GENERAL REQUIREMENTS:
- A COPY OF THE EROSION AND SEDIMENT POLLUTION CONTROL PLAN MUST BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
 - AT LEAST SEVEN DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES (INCLUDING CLEARING AND GRUBBING), THE OWNER AND / OR OPERATOR SHALL INVITE ALL CONTRACTORS, THE LANDOWNER, APPROPRIATE MUNICIPAL OFFICIALS, THE E&S PLAN PREPARER, AND A REPRESENTATIVE FROM THE DEP REGIONAL OFFICE TO AN ON-SITE PRECONSTRUCTION MEETING.
 - AT LEAST THREE DAYS PRIOR TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, OR EXPANDING INTO AN AREA PREVIOUSLY UNMARKED, THE PA ONE CALL SYSTEM, INC., SHALL BE NOTIFIED AT 1-800-242-1776 FOR THE LOCATION OF EXISTING UNDERGROUND UTILITIES.
 - ALL EARTH DISTURBANCE ACTIVITIES SHALL PROCEED IN ACCORDANCE WITH THE SEQUENCE PROVIDED ON THE E&S PLAN DRAWINGS. DEVIATION FROM THAT SEQUENCE MUST BE APPROVED IN WRITING FROM DEP PRIOR TO IMPLEMENTATION.
 - CLEARING, GRUBBING AND TOPSOIL STRIPPING SHALL BE LIMITED TO THOSE AREAS DESCRIBED IN EACH STAGE OF THE CONSTRUCTION SEQUENCE. GENERAL SITE CLEARING, GRUBBING AND TOPSOIL STRIPPING MAY NOT COMMENCE IN ANY STAGE OR PHASE OF THE PROJECT UNTIL THE E&S BMPS SPECIFIED BY THE CONSTRUCTION SEQUENCE FOR THAT STAGE OR PHASE HAVE BEEN INSTALLED AND ARE FUNCTIONING AS DESCRIBED IN THIS DOCUMENT.
 - AT NO TIME SHALL CONSTRUCTION VEHICLES BE ALLOWED TO ENTER WETLAND AREAS OUTSIDE THE LIMIT OF DISTURBANCE BOUNDARIES SHOWN ON THE PLAN DRAWINGS.
 - STOCKPILE HEIGHTS MUST NOT EXCEED 35 FT. STOCKPILE SLOPES MUST BE 2H:1V OR FLATTER.
 - IMMEDIATELY UPON DISCOVERING UNFORESEEN CIRCUMSTANCES POSING THE POTENTIAL FOR ACCELERATED EROSION AND / OR SEDIMENT POLLUTION, THE OPERATOR SHALL IMPLEMENT APPROPRIATE BMPS TO MINIMIZE THE POTENTIAL FOR EROSION AND SEDIMENT POLLUTION AND NOTIFY THE REGIONAL OFFICE OF DEP.
 - ALL BUILDING MATERIALS AND WASTES MUST BE REMOVED FROM THE SITE AND RECYCLED OR DISPOSED OF IN ACCORDANCE WITH THE DEPARTMENT'S SOLID WASTE MANAGEMENT REGULATIONS AT 25 PA CODE CHAPTER 260, SECTIONS 260.1 ET SEQ., 271.1., AND 287.1 ET SEQ. NO BUILDING MATERIALS OR WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURNED, BURIED, DUMPED OR DISCHARGED AT THE SITE.
 - ALL OFF-SITE WASTE AND BORROW AREAS MUST HAVE AN EROSION AND SEDIMENT POLLUTION CONTROL PLAN APPROVED BY THE LOCAL CONSERVATION DISTRICT OR DEP FULLY IMPLEMENTED PRIOR TO BEING ACTIVATED.
 - THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ANY MATERIAL BROUGHT ON-SITE IS CLEAN FILL. FORM FP-001 MUST BE RETAINED BY THE PROPERTY OWNER FOR ANY FILL MATERIAL AFFECTED BY A SPILL OR RELEASE OF A REGULATED SUBSTANCE BUT QUALIFYING AS CLEAN FILL DUE TO ANALYTICAL TESTING.
 - ALL PUMPING OF WATER FROM ANY WORK AREA SHALL BE DONE ACCORDING TO THE PROCEDURE DESCRIBED IN THIS PLAN, OVER UNDISTURBED VEGETATED AREAS.
 - SEDIMENT TRACKED ONTO ANY PUBLIC ROADWAY OR SIDEWALK SHALL BE RETURNED TO THE CONSTRUCTION SITE BY THE END OF EACH WORK DAY AND DISPOSED OF IN THE MANNER DESCRIBED IN THIS PLAN. IN NO CASE SHALL THE SEDIMENT BE WASHED, SHOVELED OR SWEEPED INTO ANY ROADSIDE DITCH, STORM SEWER OR SURFACE WATER. TRUCKS TRANSPORTING EXCAVATED OR FILL MATERIALS OVER PAVED ROADS SHALL UTILIZE TARPS TO MINIMIZE SOIL LOSS. EXCESS SOILS SHALL BE REMOVED FROM CONSTRUCTION VEHICLES PRIOR TO LEAVING THE JOB SITE OR ENTERING ANY PAVED ROADWAY.
 - ALL SEDIMENT REMOVED FROM BMPS SHALL BE DISPOSED OF IN THE MANNER DESCRIBED ON THE PLAN DRAWINGS.
 - AREAS WHICH ARE TO BE TOPSOILED SHALL BE SCARIFIED TO A MINIMUM DEPTH OF FOUR-INCHES PRIOR TO PLACEMENT OF TOPSOIL. AREAS TO BE VEGETATED SHALL HAVE A MINIMUM FOUR-INCHES OF TOPSOIL IN PLACE PRIOR TO SEEDING AND MULCHING. FILL OUTSLOPES SHALL HAVE A MINIMUM TWO-INCHES OF TOPSOIL.
 - ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS. FILL INTENDED TO SUPPORT BUILDINGS, STRUCTURES AND CONDUITS, ETC. SHALL BE COMPACTED IN ACCORDANCE WITH LOCAL REQUIREMENTS OR CODES.
 - ALL FILLS SHALL BE PLACED IN LIFTS NOT EXCEEDING EIGHT-INCHES (LOOSE) AND SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH PADOT PUB. 408 SECTION 206.3.
 - FILL MATERIALS SHALL BE FREE OF FROZEN PARTICLES, BRUSH, ROOTS, SOD OR OTHER FOREIGN OR OBJECTIONABLE MATERIALS THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
 - FROZEN MATERIALS OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIALS SHALL NOT BE INCORPORATED INTO FILLS.
 - FILL SHALL NOT BE PLACED ON SATURATED OR FROZEN SURFACES.
 - SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE STANDARD AND SPECIFICATION FOR SUBSURFACE DRAIN OR OTHER APPROVED METHOD.
 - ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY UPON REACHING FINISHED GRADE. CUT SLOPES IN COMPETENT BEDROCK AND ROCK FILLS NEED NOT BE VEGETATED.
 - IMMEDIATELY AFTER EARTH DISTURBANCE ACTIVITIES CEASE IN ANY AREA OR SUB AREA OF THE PROJECT, THE OPERATOR SHALL STABILIZE ALL DISTURBED AREAS. DURING NON-GERMINATING MONTHS, MULCH OR PROTECTIVE BLANKETING SHALL BE APPLIED AS DESCRIBED IN THE PLAN. AREAS NOT AT FINISHED GRADE, WHICH WILL BE REACTIVATED WITHIN ONE-YEAR, MAY BE STABILIZED IN ACCORDANCE WITH THE TEMPORARY STABILIZATION SPECIFICATIONS. THOSE AREAS WHICH WILL NOT BE REACTIVATED WITHIN ONE-YEAR SHALL BE STABILIZED IN ACCORDANCE WITH THE PERMANENT STABILIZATION SPECIFICATIONS.
 - PERMANENT STABILIZATION IS DEFINED AS A MINIMUM UNIFORM, PERENNIAL 70% VEGETATIVE COVER OR OTHER PERMANENT NON-VEGETATIVE COVER WITH A DENSITY SUFFICIENT TO RESIST ACCELERATED EROSION. CUT AND FILL SLOPES SHALL BE CAPABLE OF RESISTING FAILURE DUE TO SLUMPING, SLIDING OR OTHER MOVEMENTS.
 - E&S BMPS MUST REMAIN FUNCTIONAL AS SUCH UNTIL ALL AREAS TRIBUTARY TO THEM ARE PERMANENTLY STABILIZED OR UNTIL THEY ARE REPLACED BY ANOTHER BMP APPROVED BY THE LOCAL CONSERVATION DISTRICT OR DEP.
 - UPON COMPLETION OF ALL EARTH DISTURBANCE ACTIVITIES AND PERMANENT STABILIZATION OF ALL DISTURBED AREAS, THE OWNER AND / OR OPERATOR SHALL CONTACT THE DEP REGIONAL OFFICE FOR AN INSPECTION PRIOR TO REMOVAL / CONVERSION OF THE E&S BMPS.
 - AFTER FINAL SITE STABILIZATION HAS BEEN ACHIEVED, TEMPORARY E&S BMPS MUST BE REMOVED OR CONVERTED TO PERMANENT POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS. AREAS DISTURBED DURING REMOVAL OR CONVERSION OF THE BMPS MUST BE STABILIZED IMMEDIATELY. IN ORDER TO ENSURE RAPID REVEGETATION OF DISTURBED AREAS, SUCH REMOVAL / CONVERSIONS SHOULD BE DONE ONLY DURING THE GERMINATING SEASON.

- FAILURE TO CORRECTLY INSTALL E&S BMPS, FAILURE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE CONSTRUCTION SITE, OR FAILURE TO TAKE IMMEDIATE CORRECTIVE ACTION TO RESOLVE FAILURE OF E&S BMPS MAY RESULT IN ADMINISTRATIVE, CIVIL AND / OR CRIMINAL PENALTIES BEING INSTITUTED BY THE PA DEPARTMENT OF ENVIRONMENTAL PROTECTION AS DEFINED IN SECTION 602 OF THE PA 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.
- THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A PPC PLAN WHEN STORING, USING OR TRANSPORTING MATERIALS INCLUDING: FUELS, CHEMICALS, SOLVENTS, PESTICIDES, FERTILIZERS, LIME, PETROCHEMICALS, WASTEWATER, WASH WATER, CORE DRILLING WASTEWATER, CEMENT, SANITARY WASTES, SOLID WASTES OR HAZARDOUS MATERIALS ONTO, ON OR FROM THE PROJECT SITE DURING EARTH DISTURBANCE ACTIVITIES. THE PPC PLAN SHALL BE AVAILABLE UPON REQUEST BY THE LOCAL CONSERVATION DISTRICT OR DEP.
- VEGETATION AND TOPSOIL SHALL BE STRIPPED NOT MORE THAN TWO DAYS PRIOR TO TRENCHING OR OTHER EXCAVATION. TOPSOIL SHALL BE STOCKPILED FOR USE IN FINAL GRADING AND PROTECTED IN THE INTERIM. ALL TOPSOIL STOCKPILES SHALL BE LOCATED OUTSIDE OF ANY DESIGNATED 100-YEAR FLOODPLAINS.
- ALL DEWATERING OPERATIONS SHALL DISCHARGE TO A PROPERLY MAINTAINED SEDIMENTATION BASIN, TRAP, VEGETATED AREA, OR APPROVED PUMPED WATER FILTER BAG.
- WHEN WORKING IN AREAS ADJACENT TO DRAINAGE DITCHES, STORMWATER INLETS OR SIMILAR RUNOFF RECEIVING STRUCTURES, SUCH STRUCTURES SHALL BE KEPT FREE FROM EXCAVATED MATERIALS AND PROTECTED BY SUITABLE E&S CONTROLS. CATCH BASIN INLETS SHALL BE PROTECTED BY A SEDIMENT TRAP, STAKED STRAW BALES, A SILT SACK OR BY INLET PROTECTORS.
- ALL TEMPORARY STOCKPILED MATERIALS SHALL BE PROTECTED BY SUITABLE E&S CONTROLS AS DESCRIBED IN THE COMMONWEALTH OF PENNSYLVANIA DEP OFFICE OF WATER MANAGEMENT EROSION AND SEDIMENT POLLUTION CONTROL MANUAL.
- CONCRETE WASH WATER SHALL NOT BE ALLOWED TO ENTER ANY SURFACE WATERS OR GROUNDWATER SYSTEMS.
- ALL CHANNELS SHALL BE KEPT FREE OF OBSTRUCTIONS INCLUDING BUT NOT LIMITED TO FILL, ROCKS, LEAVES, WOODY DEBRIS, ACCUMULATED SEDIMENT, EXCESS VEGETATION AND CONSTRUCTION MATERIAL / WASTES.
- UNDERGROUND UTILITIES CUTTING THROUGH ANY ACTIVE CHANNEL SHALL BE IMMEDIATELY BACKFILLED AND THE CHANNEL RESTORED TO ITS ORIGINAL CROSS-SECTION AND PROTECTIVE LINING. ANY BASE FLOW WITHIN THE CHANNEL SHALL BE CONVEYED PAST THE WORK AREA IN THE MANNER DESCRIBED IN THIS PLAN UNTIL SUCH RESTORATION IS COMPLETE.
- CHANNELS HAVING RIPRAP, RENO MATTRESS OR GABION LININGS MUST BE SUFFICIENTLY OVER-EXCAVATED SO THAT THE DESIGN DIMENSIONS WILL BE PROVIDED AFTER PLACEMENT OF THE PROTECTIVE LINING SYSTEM.
- THE PNDI PROJECT ENVIRONMENTAL REVIEW FOR THIS PROJECT (ID# PNDI-789532) YIELDED "NO KNOWN IMPACTS" FOR THE FOLLOWING AGENCIES: PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, U.S. FISH AND WILDLIFE SERVICE, THE PA FISH & BOAT COMMISSION AND THE PA GAME COMMISSION.
- THE PAST (50 YEARS) AND PRESENT LAND USE (LAST 5 YEARS) OF THE PROJECT AREA HAS BEEN FOREST AND RAILROAD TRANSPORTATION. THE FUTURE USE OF THE PROJECT AREA IS TO BE FOREST AND RAILROAD TRANSPORTATION.
- THERMAL IMPACTS TO SURFACE WATERS SHALL BE AVOIDED OR MINIMIZED TO THE MAXIMUM EXTENT POSSIBLE THROUGH IMPLEMENTATION OF THE TEMPORARY AND PERMANENT CONTROL MEASURES AND FACILITIES IDENTIFIED WITHIN THIS PLAN.
- ALL DISTURBANCE ACTIVITIES, INCLUDING THOSE WHICH MAY IMPACT RIPARIAN FOREST BUFFERS, HAVE BEEN REDUCED TO THE MAXIMUM EXTENT PRACTICABLE.
- ANY CLEANING OF CHUTES, MIXERS AND HOPPERS OF CONCRETE DELIVERY VEHICLES ARE TO BE DONE WITHIN THE PROVIDED CONCRETE WASHOUTS.
- ALL PROPOSED STAGING AREAS, WASTE AREAS OR BORROW AREAS SHALL BE APPROVED BY THE COUNTY CONSERVATION DISTRICT PRIOR TO IMPLEMENTATION. ANY REQUIRED STAGING AND WASTE DISPOSAL AREAS WILL BE LOCATED IN UPLAND/NON WETLAND AREAS REMOVED FROM SENSITIVE ENVIRONMENTAL RESOURCES. THE CONTRACTOR WILL CONTACT THE COUNTY CONSERVATION DISTRICT PRIOR TO THE IMPLEMENTATION OF ANY SUCH SITES.

PROPOSED WORK AREA

AREA OF DISTURBANCE = 0.45 ACRE (AREA WITHIN LOD DISTURBANCE LIMITS)



PA ONE CALL SYSTEM, INC
PHONE NUMBER 1-800-242-1776
PA ONE CALL SERIAL NO
SHAMOKIN TOWNSHIP, NORTHUMBERLAND COUNTY: 20230622146

CONTACTS

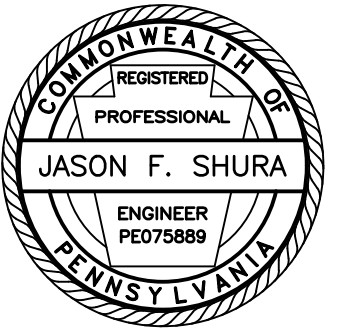
THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATERWAYS AND WETLANDS PROGRAM
NORTHCENTRAL REGIONAL OFFICE
208 WEST THIRD STREET, SUITE 101
WILLIAMSPORT, PA 17701
PHONE: (570) 327-3636

STIFFLER, MCGRAW & ASSOCIATES, INC.
1731 N. JUNIATA STREET
HOLLIDAYSBURG, PA 16648
ATTN: JASON F. SHURA, PE
PHONE: (814) 696-6280

LYCOMING COUNTY CONSERVATION DISTRICT
542 COUNTRY FARM ROAD, SUITE 202
MONTOURSVILLE, PA 17754
PHONE: (570) 433-3003



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
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Sheet Title:

**EROSION AND
SEDIMENT POLLUTION
CONTROL NOTES**

PROJECT NO. 19-0001.183
DRAWN BY: JDD
DESIGNED BY: JES
CHECKED BY: JFS
SCALE: AS SHOWN

Drawing:

ES1

TEMPORARY CONTROL MEASURES AND FACILITIES

THE TEMPORARY CONTROL MEASURES AND FACILITIES ARE TO BE ABACT RATED AND CONSIST OF:

COMPOST FILTER SOCKS:

COMPOST FILTER SOCKS WILL BE PLACED DOWNSLOPE OF EARTH DISTURBANCE ACTIVITIES TO REDUCE THE QUANTITY OF SEDIMENT FLOW.

ROCK CONSTRUCTION ENTRANCE:

ROCK CONSTRUCTION ENTRANCE WILL BE INSTALLED AT THE INGRESS / EGRESS LOCATIONS TO LIMIT TRACKING OF DIRT ONTO THE ROADWAY.

PUMPED WATER FILTER BAGS SURROUNDED BY COMPOST FILTER SOCK:

PUMPED WATER FILTER BAGS WILL BE USED TO RECEIVE ACCUMULATED RUNOFF FROM EXCAVATIONS AND TRENCHING OPERATIONS TO REDUCE THE QUANTITY OF SEDIMENT FLOW.

TEMPORARY PUMP DISCHARGE OUTLET PROTECTION, R-5 ROCK:

OUTLET ROCK PROTECTION, R-5 ROCK, SHALL BE INSTALLED AT THE DISCHARGE END OF THE BYPASS PUMP TO SLOW WATER VELOCITY AND PREVENT EROSION.

CONCRETE WASHOUT FACILITY:

ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 50% CAPACITY. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

TEMPORARY COFFERDAM/STREAM DIVERSION:

A TEMPORARY COFFERDAM/STREAM DIVERSION WILL BE USED TO BLOCK STREAM FLOW FROM ENTERING THE CONSTRUCTION AREA AND ALLOW FOR PUMPING OF THE STREAM AROUND THE CONSTRUCTION AREA.

PERMANENT CONTROL MEASURES AND FACILITIES

THE PERMANENT CONTROL MEASURES CONSIST OF:

SEEDING AND STABILIZATION:

THE ENTIRE SITE WILL BE STABILIZED BY THE PROPOSED FINAL "COVER", CONSISTING OF VEGETATION. SOIL TESTING SHALL BE PERFORMED TO DETERMINE PROPER SOIL AMENDMENTS FOR SEEDING AS INDICATED.

ROLLED EROSION CONTROL PRODUCT (TYPE 2D):

SLOPES 3:1 AND STEEPER AND DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER WILL BE LINED WITH A TURF REINFORCING MAT TO AID IN THE ESTABLISHMENT OF VEGETATIVE STABILIZATION.

ROCK LINING:

ROCK LINING SHALL BE INSTALLED ON BANKS AND AT PIPE INLET/OUTLETS.

RECEIVING WATERS

THE RECEIVING WATERS FOR THIS PROJECT IS AN UNNAMED TRIBUTARY TO SHAMOKIN CREEK. UNNAMED TRIBUTARY DOES NOT CARRY A DESIGNATED USE IN THE PENNSYLVANIA CHAPTER 93 WATER QUALITY STANDARDS OR A TROUT DESIGNATION FOR THE PA FISH AND BOAT COMMISSION.

SHAMOKIN CREEK WHICH IS DESIGNATED AS A WARM WATER FISHERY (WWF, MF). ITS EXISTING USE IS THE SAME. SHAMOKIN CREEK DOES NOT CARRY A TROUT DESIGNATION FOR THE PA FISH AND BOAT COMMISSION.

SOIL INFORMATION

THE FOLLOWING SOIL(S) WILL BE ENCOUNTERED DURING EARTHMOVING OPERATIONS TO CONSTRUCT THE PROPOSED FACILITY:

LIMITING SOIL CHARACTERISTICS APPLICABLE TO THIS PROJECT

SOIL UNIT	SOIL NAME	EASILY ERODIBLE	CUT BANKS	SEASONAL HIGH WATER TABLE	POTENTIAL HYDRIC	ACIDIC
WbB	WATSON		X	X	X	X
Uf	UDIFLUVENTS		X	X	X	X

THE SOIL INFORMATION IN THIS TABLE IS FROM THE PA DEP BUREAU OF OIL & GAS MANAGEMENT'S *EROSION, SEDIMENT AND STORMWATER CONTROL PLAN FOR OIL AND GAS OPERATIONS, APPENDIX B* (FORM 5500-FM-OG0111 REV. 12/2015) AND THE SOIL SURVEY OF NORTHUMBERLAND COUNTY (USDA-NRCS, 1993).

SOIL LIMITATIONS RESOLUTIONS:

- THE ERODIBLE SOIL LIMITS WILL BE MITIGATED BY THE USE OF COMPOST FILTER SOCKS, EROSION CONTROL BLANKETS, INLET SILT SACKS, AND PROPER STABILIZATION FEATURES.
- CUT BANK FAILURE WILL BE MITIGATED BY USE OF PROPER COMPACTION, BENCHING, SHORING, AND TRENCHING TECHNIQUES AND LIMITING STEEP SLOPES.
- A WETLANDS INVESTIGATION WAS COMPLETED FOR THE PROJECT ON JUNE 1, 2023 BY CHRISTOPHER D. SAWYER, WPIT OF STIFFLER, MCGRAW AND ASSOCIATES, INC. THE RESULTS OF THE INVESTIGATION DETERMINED THAT WETLANDS ARE NOT PRESENT WITHIN THE PROPOSED DISTURBED AREAS OF THE PROJECT.
- HIGH WATER TABLE LIMITS DURING TRENCHING ACTIVITIES WILL BE CONTROLLED BY THE USE OF PUMPED WATER FILTER BAGS.
- SOILS WILL BE TESTED AND ALKALINE ADDITIONS APPLIED TO ACIDIC SOILS PRIOR TO SEEDING AND MULCHING.

MAINTENANCE OF CONTROL FACILITIES

UNTIL THE SITE IS STABILIZED, ALL EROSION AND SEDIMENT BMPS MUST BE MAINTAINED PROPERLY. MAINTENANCE MUST INCLUDE INSPECTIONS OF ALL EROSION AND SEDIMENT BMPS AFTER EACH RUNOFF EVENT AND ON A WEEKLY BASIS. ALL PREVENTATIVE AND REMEDIAL MAINTENANCE WORK, INCLUDING CLEAN OUT, REPAIR, REPLACEMENT, REGRADING, RESEEDING, REMULCHING, AND RENETTING MUST BE PERFORMED IMMEDIATELY. IF EROSION AND SEDIMENT CONTROL BMPS FAIL TO PERFORM AS EXPECTED, REPLACEMENT BMPS OR MODIFICATIONS OF THOSE INSTALLED WILL BE REQUIRED.

A LOG SHOWING DATES THAT EROSION AND SEDIMENT BMPS WERE INSPECTED, AS WELL AS ANY DEFICIENCIES FOUND AND THE DATE THEY WERE CORRECTED, SHALL BE MAINTAINED ON THE SITE AND BE MADE AVAILABLE TO REGULATORY AGENCY OFFICIALS AT THE TIME OF INSPECTION (SEE "VISUAL SITE INSPECTION REPORT" ATTACHED TO THE E&S NARRATIVE).

SEDIMENT WILL BE CLEANED FROM THE COMPOST FILTER SOCKS WHEN ACCUMULATIONS REACH ONE-HALF THE ABOVE-GROUND HEIGHT OF THE SYSTEM. INSTALL A ROCK FILTER OUTLET WHEN A COMPOST FILTER SOCK IS DAMAGED OR REPAIR THE DAMAGED COMPOST FILTER SOCK AS PER MANUFACTURER'S SPECIFICATION.

PUMPED WATER FILTER BAGS WILL BE INSPECTED DAILY AND IMMEDIATELY REPLACED WHEN FIFTY PERCENT OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE. IF PROBLEMS ARE DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND SHALL NOT RESUME UNTIL THE PROBLEMS ARE CORRECTED. SPARE PUMPED WATER FILTER BAG(S) SHALL BE AVAILABLE FOR REPLACEMENT OF PUMPED WATER FILTER BAGS THAT HAVE FAILED OR BECOME FULL.

ALL SEDIMENT SHALL BE REMOVED FROM A TEMPORARY SEDIMENTATION OR EROSION CONTROL DEVICE PRIOR TO THE REMOVAL OF THAT DEVICE. TEMPORARY CONTROL DEVICES WILL BE REMOVED BY STARTING UPSTREAM OR UP-SLOPE TO ENSURE SEDIMENTATION CONTROL DURING THE REMOVAL PROCESS. THE FILTER MEDIA FROM WITHIN THE SILT/SOXX, DITCH CHEXX AND COMPOST FILTER SOCKS WILL BE DISPERSED ON SITE ONCE THE DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED, CONSTRUCTION ACTIVITY HAS CEASED OR AS DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSAL OR PERMANENT STABILIZATION OF ALL SEDIMENT REMOVED FROM BMPS. THE SEDIMENT SHALL NOT BE DUMPED IN AREAS WHERE EROSION WILL CAUSE AN UNSIGHTLY SCAR OR WHERE THE SEDIMENT CAN REACH A STREAM. UPON REMOVING THE SEDIMENT FROM THE DEVICE AND PLACING IT IN A SUITABLE LOCATION, THE MATERIAL SHALL BE SPREAD TO A UNIFORM DEPTH, SEEDED AND STABILIZED.

THE CONTRACTOR SHALL PREPARE AN EROSION AND SEDIMENT POLLUTION CONTROL PLAN FOR ANY AREAS TO BE DISTURBED WHICH ARE NOT SHOWN ON THE DRAWINGS SUCH AS JOB TRAILER SITES, MATERIAL STORAGE SITES, EQUIPMENT MAINTENANCE SITE, AND BORROW AND WASTE AREAS, ETC. PLANS MUST BE APPROVED BY THE LOCAL COUNTY CONSERVATION DISTRICT BEFORE EARTH DISTURBANCE OCCURS AT THE RESPECTIVE AREA. THE CONTRACTOR SHOULD ALLOW 30 DAYS IN THEIR CONSTRUCTION PLANNING FOR REVIEW OF THE SUBMITTED PLAN BY THE LOCAL COUNTY CONSERVATION DISTRICT.

GENERAL EARTHWORK AND SPOIL AND BORROW AREAS

ENVIRONMENTAL DUE DILIGENCE MUST BE PERFORMED BY THE CONTRACTOR TO DETERMINE IF THE MATERIALS ASSOCIATED WITH THE PROJECT QUALIFY AS CLEAN FILL. ENVIRONMENTAL DUE DILIGENCE IS DEFINED AS: INVESTIGATIVE TECHNIQUES, INCLUDING, BUT NOT LIMITED TO, VISUAL PROPERTY INSPECTION, ELECTRONIC DATABASE SEARCHES, REVIEW OF PROPERTY OWNERSHIP, REVIEW OF PROPERTY USE HISTORY, SANBORN MAPS, ENVIRONMENTAL QUESTIONNAIRES, TRANSACTION SCREENS, ANALYTICAL TESTING, ENVIRONMENTAL ASSESSMENTS OR AUDITS. ANALYTICAL TESTING IS NOT A REQUIRED PART OF DUE DILIGENCE UNLESS VISUAL INSPECTION AND / OR REVIEW OF THE PAST LAND USE OF THE PROPERTY INDICATES THAT THE FILL MAY HAVE BEEN SUBJECTED TO A SPILL OR RELEASE OF 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 THE DEPARTMENT'S POLICY "MANAGEMENT OF CLEAN FILL."

CLEAN FILL IS DEFINED AS: UNCONTAMINATED, NON-WATER SOLUBLE, NON-DECOMPOSABLE, INERT, SOLID MATERIAL. THE TERM INCLUDES, SOIL, ROCK, STONE, DREDGED MATERIAL, USED ASPHALT, AND BRICK, BLOCK OR CONCRETE FROM CONSTRUCTION AND DEMOLITION ACTIVITIES THAT IS SEPARATE FROM OTHER WASTE AND IS RECOGNIZABLE AS SUCH. THE TERM DOES NOT INCLUDE MATERIALS PLACED IN OR ON THE WATERS OF THE COMMONWEALTH UNLESS OTHERWISE AUTHORIZED. THE TERM "USED ASPHALT" DOES NOT INCLUDE MILLED ASPHALT OR ASPHALT THAT HAS BEEN PROCESSED FOR RE-USE.

LONG, STEEP CUT AND FILL SLOPES SHOULD BE SEEDED AND MULCHED IN FIFTEEN-FOOT VERTICAL INCREMENTS, WHICH MAY BE INCREASED TO TWENTY-FOOT VERTICAL INCREMENTS IF VERY LARGE EQUIPMENT IS USED.

IF OFF-SITE SPOIL OR BORROW AREAS FOR MATERIALS ARE REQUIRED, THE CONTRACTOR WILL PREPARE AND SUBMIT AN EROSION AND SEDIMENTATION CONTROL (E&S) PLAN FOR EACH SITE CHOSEN TO THE APPROPRIATE COUNTY CONSERVATION DISTRICT FOR REVIEW. THE CONTRACTOR SHALL PROVIDE A WETLAND ASSESSMENT, AND SHALL BE RESPONSIBLE FOR ANY OTHER PERMITS REQUIRED, FOR EACH SITE CHOSEN.

ALL AREAS USED FOR DEPOSITION OF EXCESS MATERIALS OR AS A SOURCE OF FILL

MATERIALS SHALL BE ADEQUATELY PROTECTED AGAINST EROSION AND SEDIMENTATION. ALL SPOIL AND BORROW AREAS SHALL RECEIVE FINAL GRADING AND STABILIZATION UPON COMPLETION OF THE PROJECT.

IF EXCESS MATERIALS ARE TO BE SPREAD OUT AND GRADED WITHIN THE PROJECT LIMITS, THE AREA SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE. IF THE MATERIALS ARE STOCKPILED WITHIN THE PROJECT LIMITS, FILTER FABRIC FENCES AND / OR SILT/SOXX SHALL BE PLACED ON THE DOWNSTREAM SIDE.

THE CONTRACTOR SHALL NOT DISTURB GROUND COVER AREAS BEYOND THOSE NECESSARY TO SATISFACTORILY COMPLETE THE REQUIRED WORK.

THE CONTRACTOR SHALL DIVERT SURFACE RUNOFF AWAY FROM CONSTRUCTION AREAS WHERE PRACTICAL.

THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO CONTROL DUST ON OR NEAR THE PROJECT SITE AND ON OR NEAR ALL OFF-SITE BORROW AND WASTE AREAS, AS RESULTING FROM THE CONTRACTOR'S OPERATIONS.

RECYCLING & DISPOSAL OF MATERIALS

WASTES GENERATED DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE RECYCLED IF AT ALL POSSIBLE. ANY MATERIALS THAT CAN NOT BE RECYCLED OR REUSED SHALL BE DISPOSED OF AT A NPDES SITE. TRASH AND DEBRIS SHALL BE DISPOSED OF AT A PREAPPROVED LANDFILL. IF SOIL AND/OR ROCK DISPOSAL AREAS ARE REQUIRED, EROSION AND SEDIMENTATION CONTROLS SHALL BE IMPLEMENTED AT THESE AREAS. ANY SOIL BORROWS OR SOIL WASTE SITES THAT WILL BE LOCATED OUTSIDE THE PROJECT AREA MUST FIRST BE APPROVED BY THE APPROPRIATE AGENCIES.

GEOLOGIC FORMATIONS/SOIL CONDITIONS

THERE ARE NO VISIBLE GEOLOGIC FORMATIONS OR SOIL CONDITIONS THAT WOULD HAVE POTENTIAL TO CAUSE POLLUTION. AT THIS TIME, IT IS UNKNOWN IF SUBSURFACE GEOLOGIC FORMATIONS OR SOIL EXIST THAT WOULD HAVE POTENTIAL TO CAUSE POLLUTION. IF GRADING ACTIVITIES OR CONSTRUCTION OF ANY OF THE FACILITIES UNCOVERS ANY GEOLOGIC FORMATION OR SOIL CONDITION THAT COULD HAVE THE POTENTIAL TO CAUSE POLLUTION, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

NOTES:

- EROSION AND SEDIMENT BEST MANAGEMENT PRACTICES (BMPS) MUST BE CONSTRUCTED, STABILIZED, AND FUNCTIONAL BEFORE SITE DISTURBANCE BEGINS WITHIN THE TRIBUTARY AREAS OF THOSE BMPS.
- THE CONTRACTOR SHALL COORDINATE THEIR PROPOSED STABILIZATION MEASURES FOR ALL WORK AREAS TO BE COMPLETED DURING THE NON-GROWING SEASON DIRECTLY WITH THE COUNTY CONSERVATION DISTRICT.



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

**EROSION AND
SEDIMENT POLLUTION
CONTROL NOTES**

PROJECT NO.: 19-0001.183

DRAWN BY: JDD

DESIGNED BY: JES

CHECKED BY: JFS

SCALE: AS SHOWN

Drawing:

ES2

SEEDING MIXTURES FOR TEMPORARY AND PERMANENT STABILIZATION

—TEMPORARY STABILIZATION:
PENNDOT FORMULA E

SEED MIX/SPECIES	RATE OF APPLICATION (10 LB/1000 SY)
ANNUAL RYEGRASS	10.0

—PERMANENT STABILIZATION: TO BE PLACED ON ALL DISTURBED STREAM BANKS
RIPARIAN SEED MIX

SEED MIX/SPECIES	RATE OF APPLICATION (50 LB/AC)
ANNUAL RYE GRASS	30.0
DEERTONGUE 'TIOGA'	4.4
INDIANGRASS	3.4
BIG BLUESTEM	2.4
VIRGINIA WILDRYE	2.0
RIVERBANK WILDRYE	2.0
FOWL BLUEGRASS	1.6
SOFT RUSH	0.4
AUTUMN BENTGRASS	0.4
SWITCHGRASS 'SHELTER'	0.4
OXEYE SUNFLOWER	0.4
BLUE VERVAIN	0.4
MANY LEAVED BULRUSH	0.2
WILD BERGAMONT	0.2
BONESET	0.2
JOE PYE WEED	0.2
FLAT TOPPED WHITE ASTER	0.2
PURPLESTEM ASTER	0.2
ZIGZAG ASTER	0.2
NEW ENGLAND ASTER	0.2
SWAMP MILKWEED	0.2
TURK'S CAP LILY	0.2
SPOTTED JOE PYEWEEED	0.2

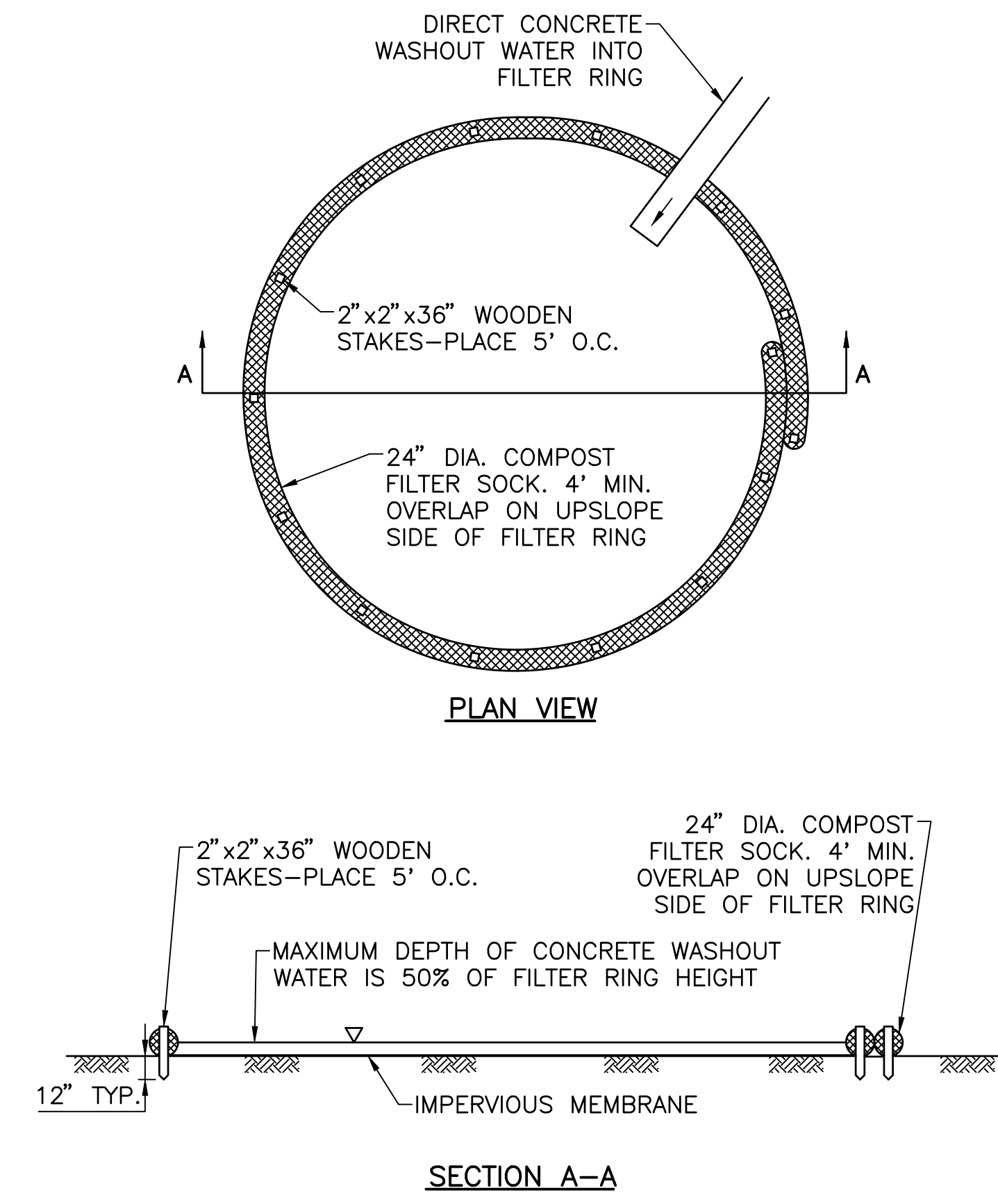
—PERMANENT STABILIZATION: LAWN AREAS WITH SLOPES LESS THAN 3:1
PENNDOT FORMULA B

SEED MIX/SPECIES	RATE OF APPLICATION (44 LB/1000 SY)
PERENNIAL RYEGRASS	8.5 LB
CREEPING RED OR CHEWING FESCUE	12.5 LB
KENTUCKY BLUEGRASS MIX	21 LB
ANNUAL RYEGRASS	2.0 LB

—PERMANENT STABILIZATION: SLOPES 3:1 AND GREATER
PENNDOT FORMULA L

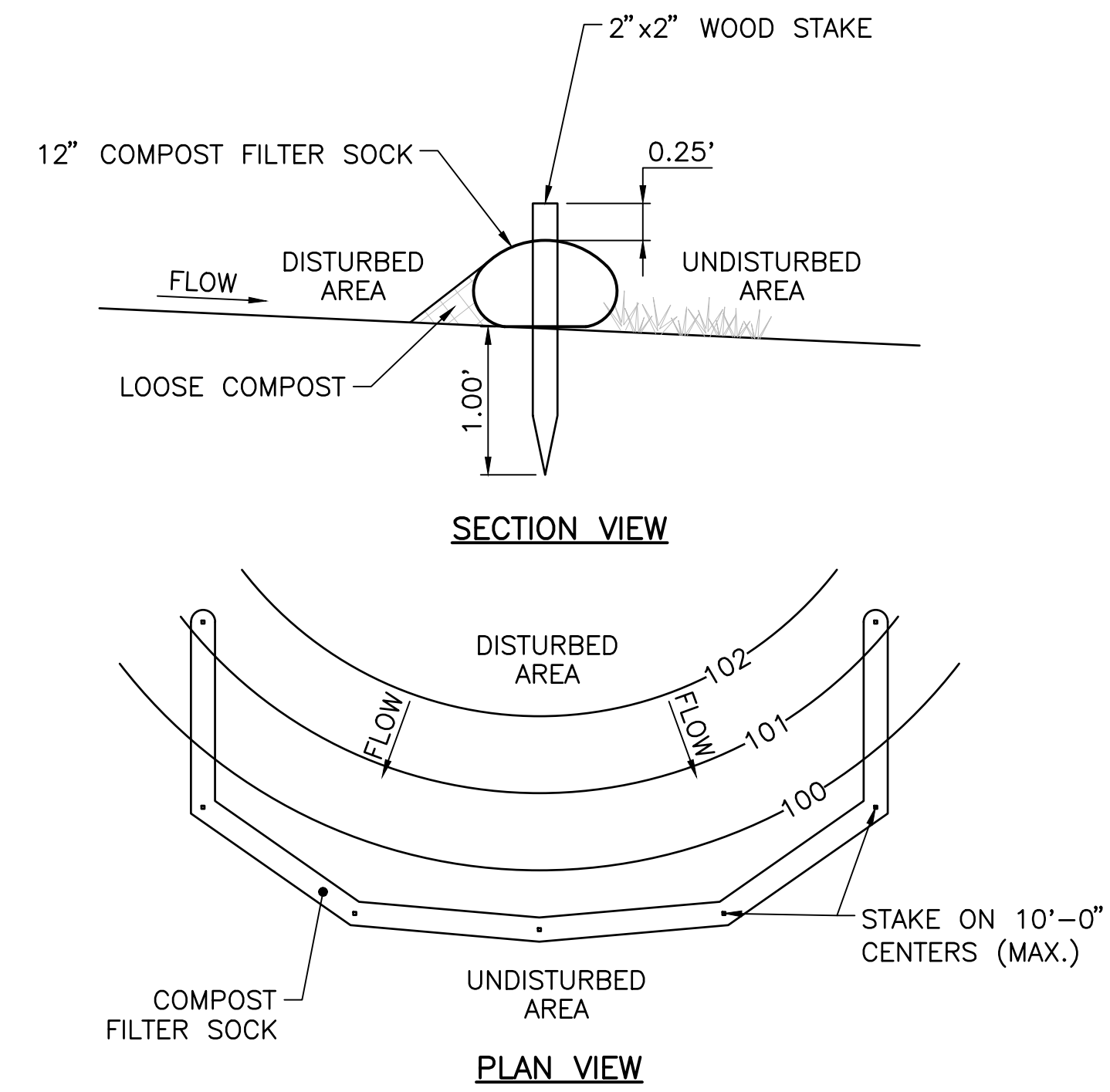
SEED MIX/SPECIES	RATE OF APPLICATION (48 LB/1000 SY)
HARD FESCUE	26.4 LB
CREEPING RED FESCUE	16.8 LB
ANNUAL RYEGRASS	4.8 LB

PULVERIZED AGRICULTURAL LIME 800 LB/1000 SY
FERTILIZER 10-20-20 APPLIED AT RATE OF 140 LB/1000 SY
FERTILIZER 38-0-0 APPLIED AT RATE OF 50 LB/1000 SY
APPLY MULCHING—STRAW OR HAY AS INDICATED AND IN ACCORDANCE WITH PUB. 408 AT THE RATE OF 1240 LB/1000 SY



- NOTES:**
1. A SUITABLE IMPERVIOUS MEMBRANE SHALL BE PLACED AT EACH WASHOUT LOCATION.
 2. STAKE FILTER SOCK AROUND THE PERIMETER OF THE GEOMEMBRANE SO AS TO FORM A RING WITH THE ENDS OF THE SOCK LOCATED AT THE UPSLOPE CORNER.
 3. ENSURE CONTINUOUS CONTACT OF THE SOCK WITH THE GEOMEMBRANE AT ALL LOCATIONS.
 4. SOCKS MAY BE STACKED AND STAKED SO AS TO FORM A TRIANGULAR CROSS SECTION.
 5. SIZE WASHOUT TO ACCOMMODATE 7 GALLONS OF WASH WATER PER TRUCK CHUTE AND 50 GALLONS OF WASH WATER FOR THE HOPPER OF A CONCRETE PUMP TRUCK FOR THE ANTICIPATED NUMBER OF TRUCKS USING THE WASHOUT.
 6. OBTAIN COUNTY CONSERVATION DISTRICT AND/OR PADEP APPROVAL FOR ALL WASHOUT LOCATIONS.
 7. INSTALL SIGNAGE TO NOTIFY DRIVERS OF THE PRESENCE OF WASHOUT FACILITIES.
 8. WASHOUT FACILITIES SHOULD NOT BE PLACED WITHIN 50 FEET OF STORM DRAINS, OPEN DITCHES OR SURFACE WATERS.
 9. DO NOT INSTALL WASHOUTS ON SLOPES EXCEEDING 2% GRADE.
 10. ALTERNATIVE WASHOUT SYSTEMS MAY BE USED WITH COUNTY CONSERVATION DISTRICT APPROVAL.

CONCRETE WASHOUT
NOT TO SCALE

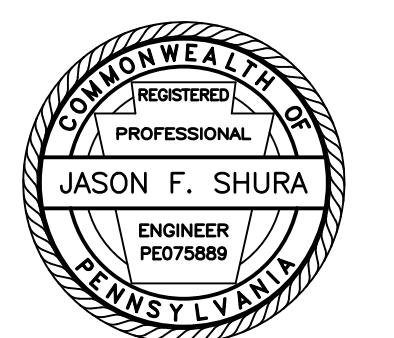


- NOTES:**
1. REMOVE DEPOSITS WHEN SEDIMENT ACCUMULATION IS ONE-HALF THE HEIGHT OF THE EXPOSED COMPOST FILTER SOCK.
 2. PLACE COMPOST FILTER SOCK ON LEVEL GRADE. EXTEND BOTH ENDS OF THE COMPOST FILTER SOCK AT LEAST 8'-0" UPSLOPE AT 45 DEGREES TO THE MAIN ALIGNMENT.
 3. REPLACE BIODEGRADABLE FILTER SOCK AFTER 6 MONTHS; PHOTODEGRADABLE AFTER 12 MONTHS.

COMPOST FILTER SOCK, 12" DIAMETER
NOT TO SCALE



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PROJECT

CONTRACT NO. 2023-02

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NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

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Sheet Title:

**EROSION AND
SEDIMENT POLLUTION
CONTROL DETAILS**

PROJECT NO.	19-0001.183
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

ES3

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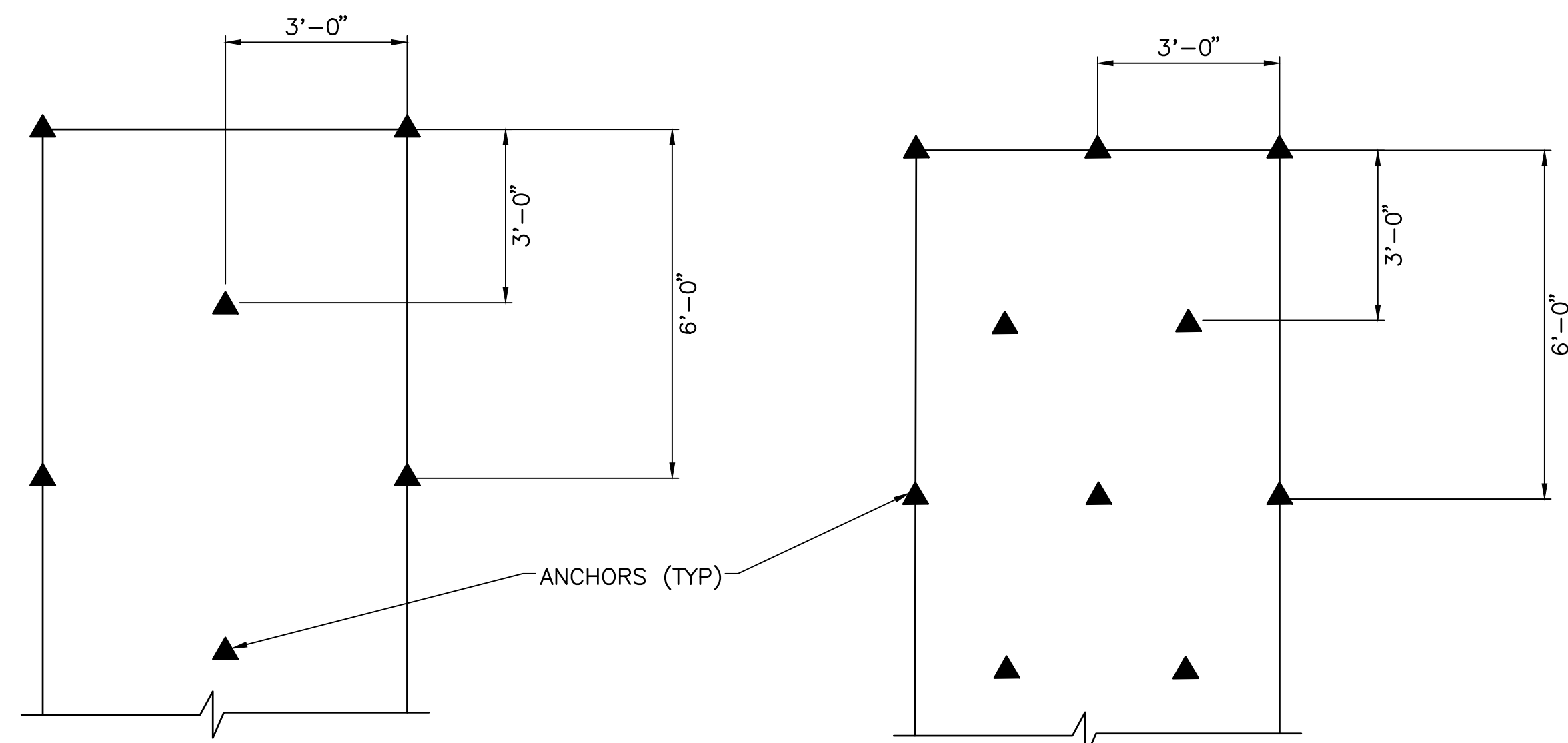
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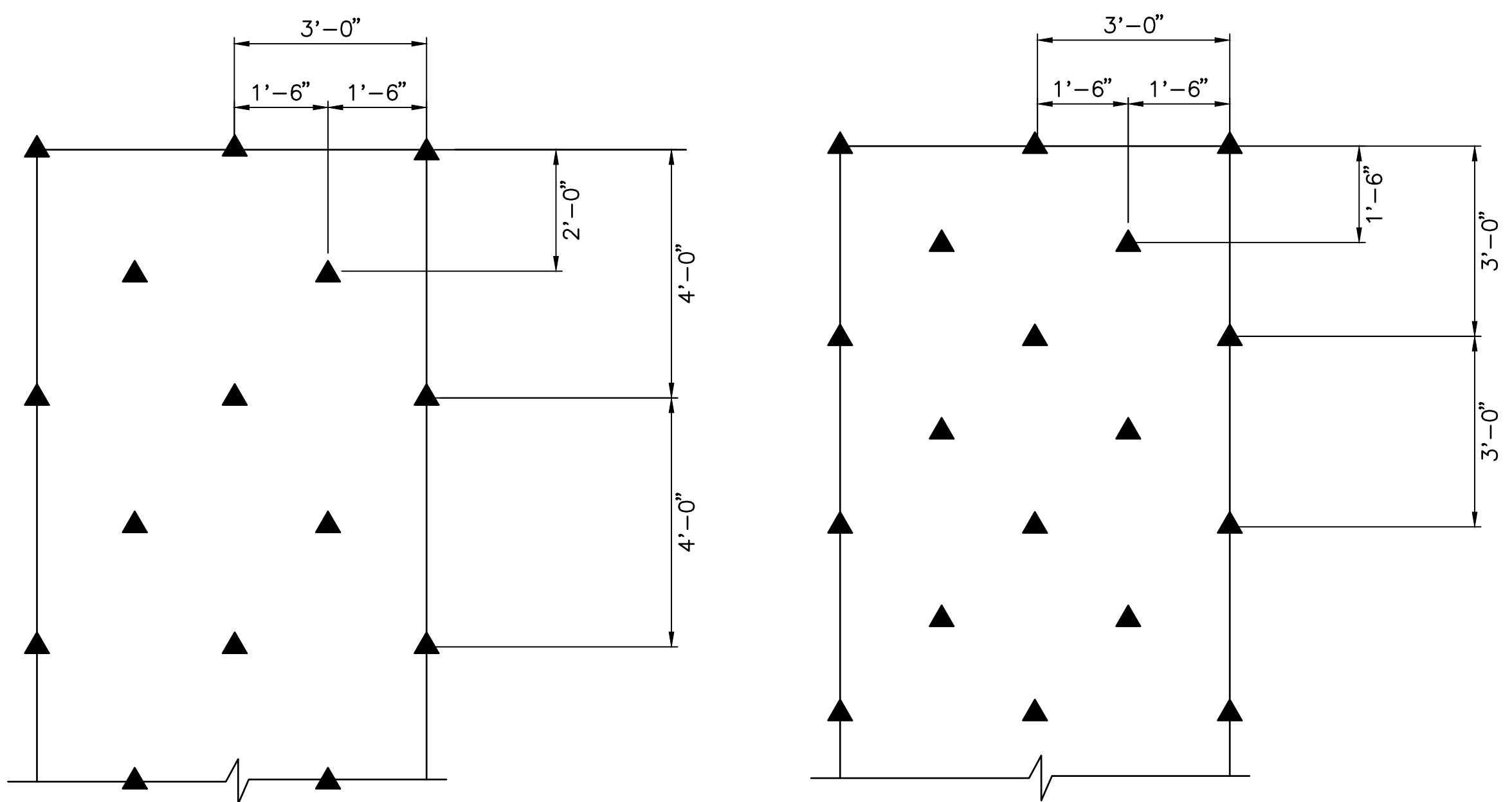
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**ANCHOR PATTERN FOR
SLOPES FLATTER THAN 3:1**
1 ANCHOR/SY

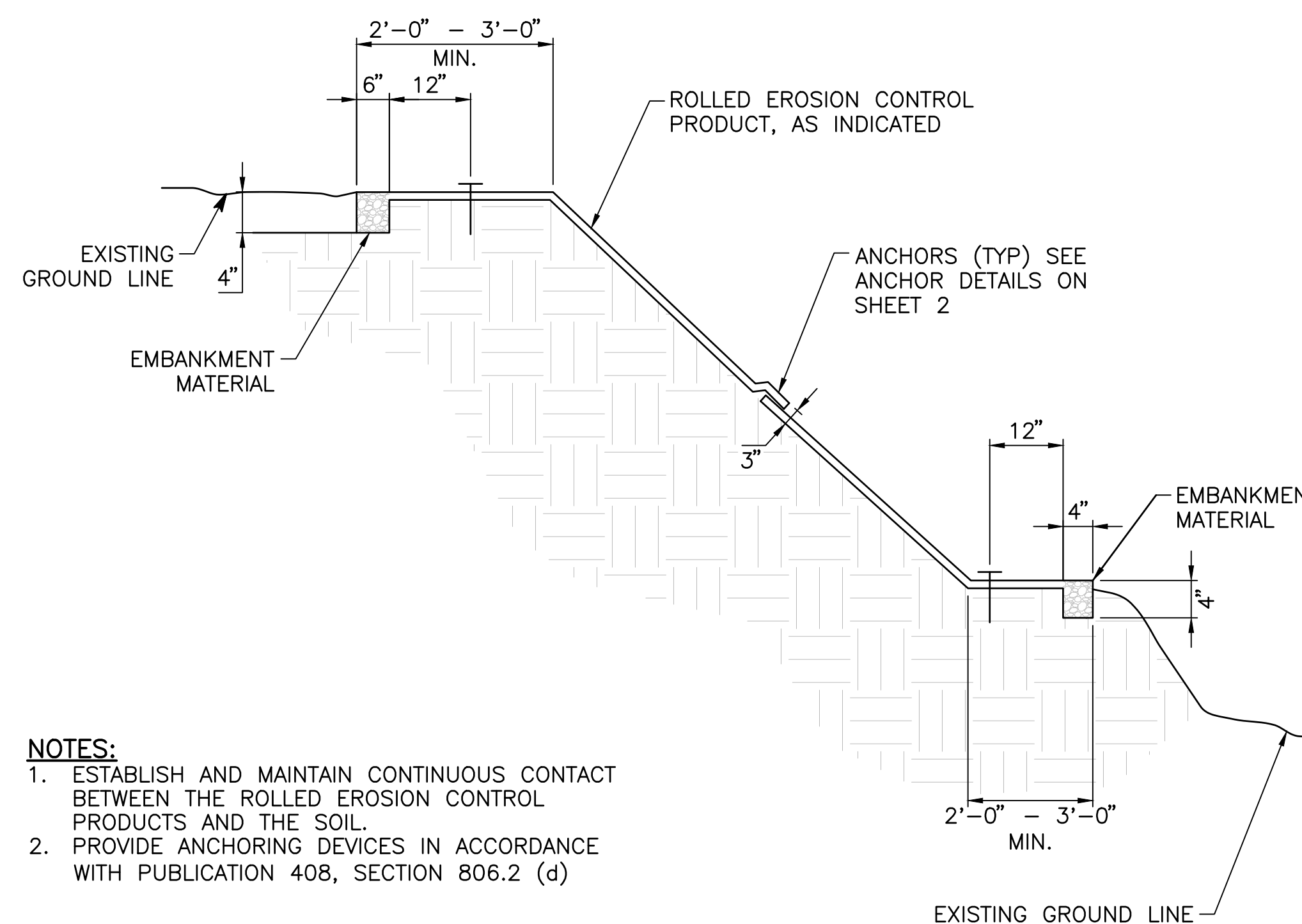
**ANCHOR PATTERN FOR SLOPES
BETWEEN 3:1 AND 2:1 (INCLUDING 3:1)**
1 1/2 ANCHOR/SY



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

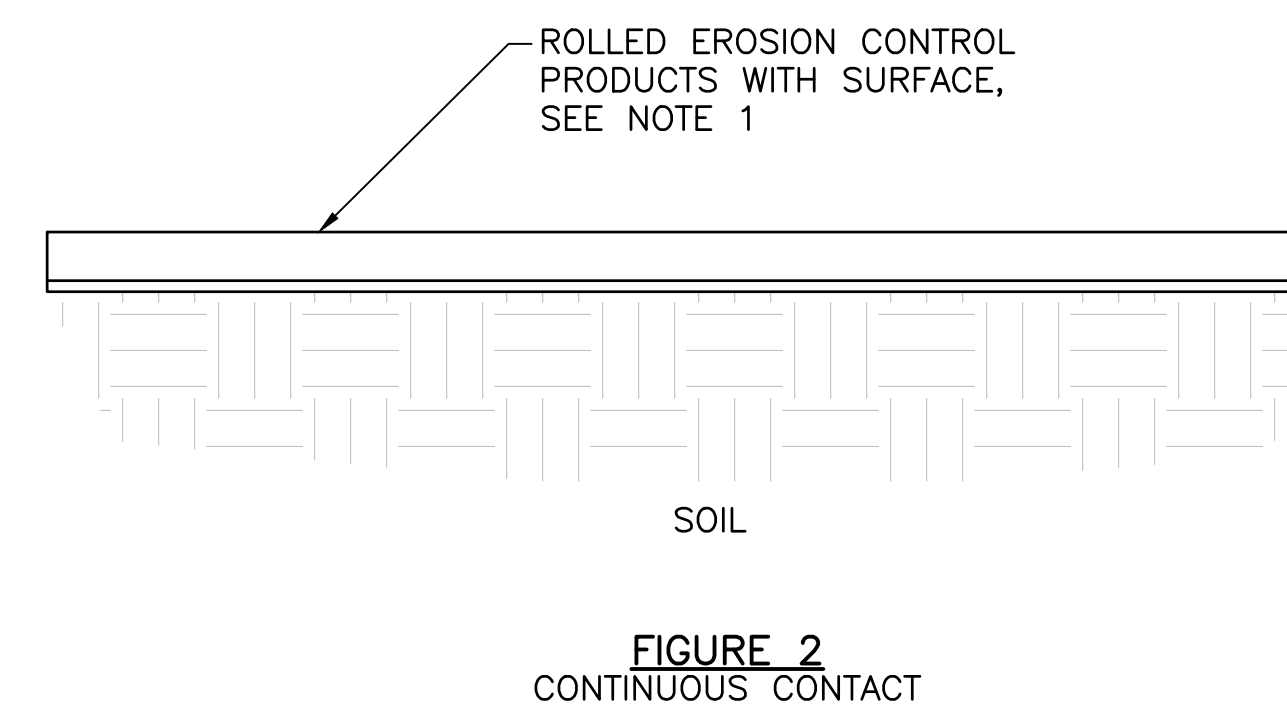
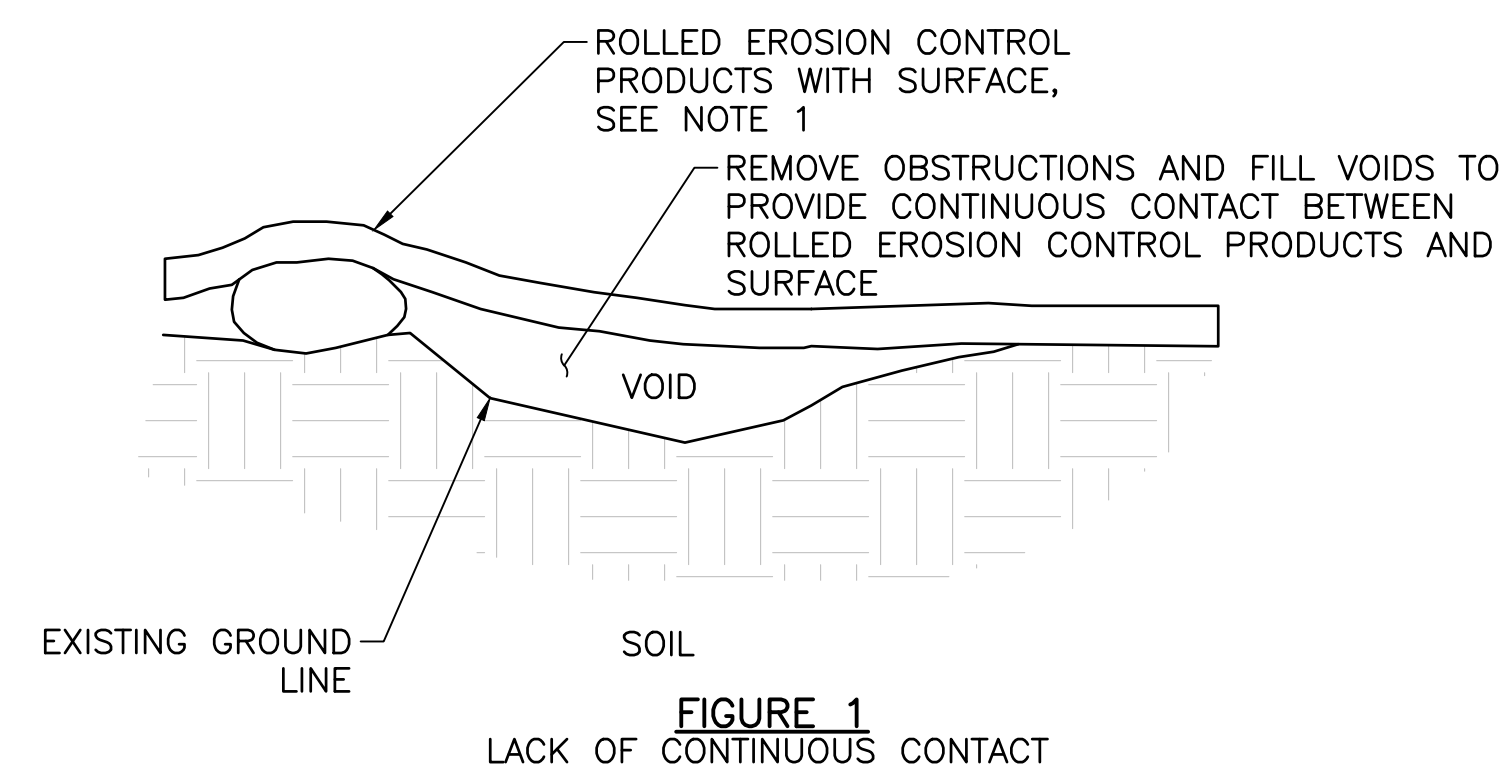
**ANCHOR PATTERN FOR SLOPES
1:1 OR STEEPER**
2 1/2 ANCHOR/SY

ANCHOR PATTERNS FOR SLOPES

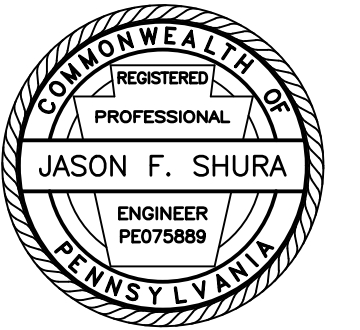


TYPICAL SLOPE CROSS-SECTION

- 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, SECTION 806.2 (d)



ROLLED EROSION CONTROL PRODUCTS (RECP)
(TEMPORARY SHORT-TERM, ROLLED EROSION CONTROL PRODUCT, TYPE 2D)
NOT TO SCALE



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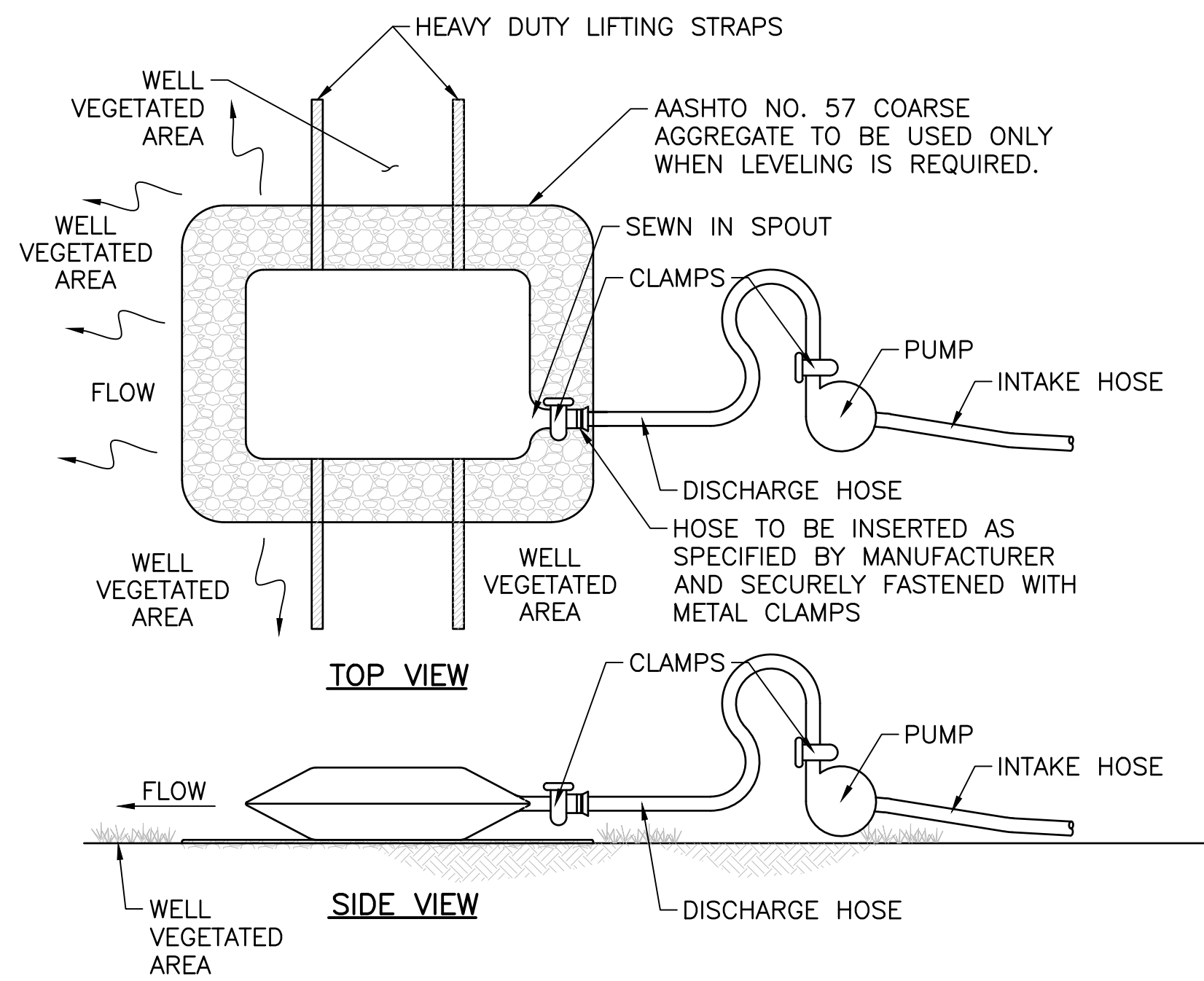
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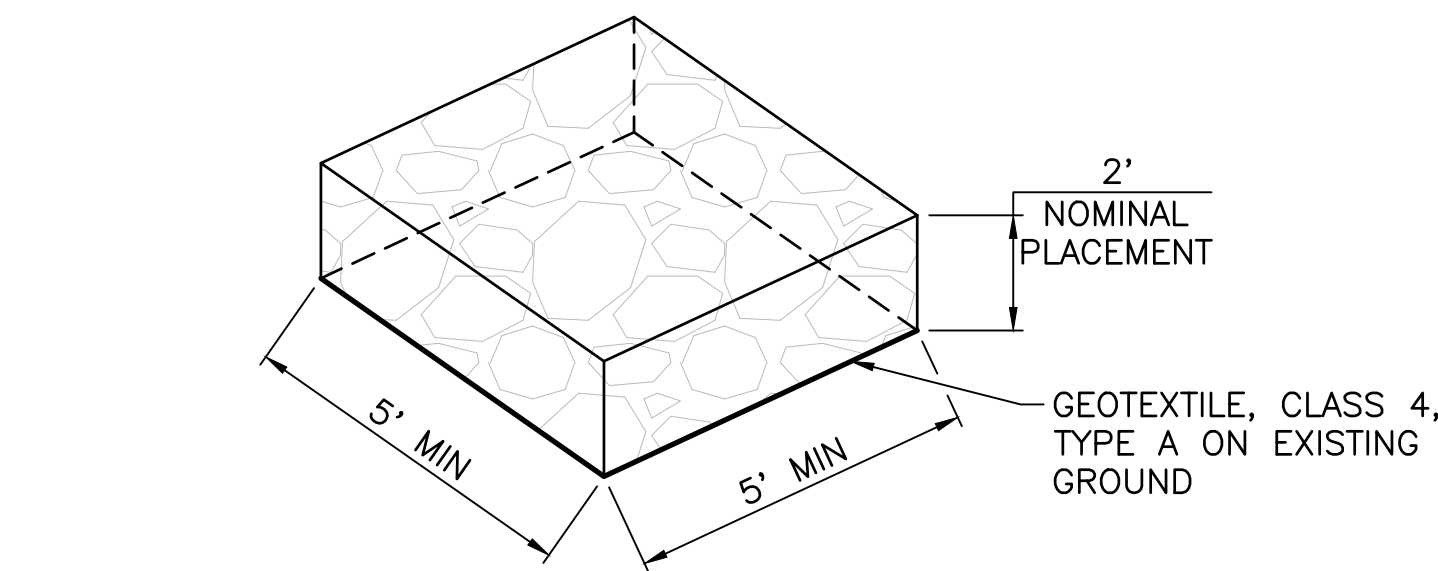
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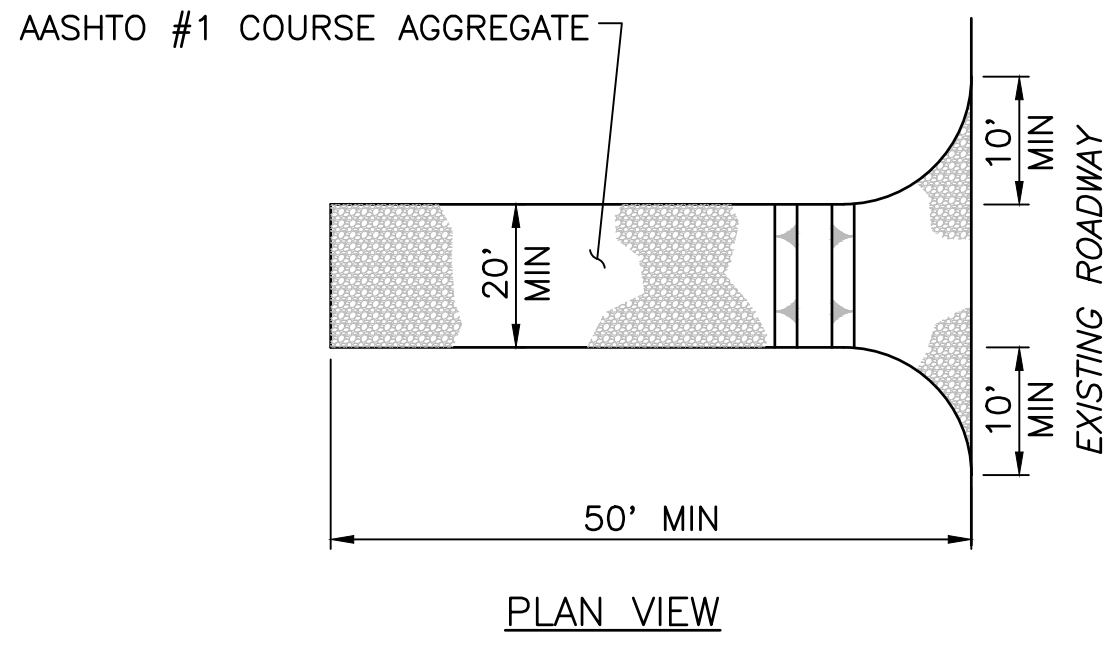
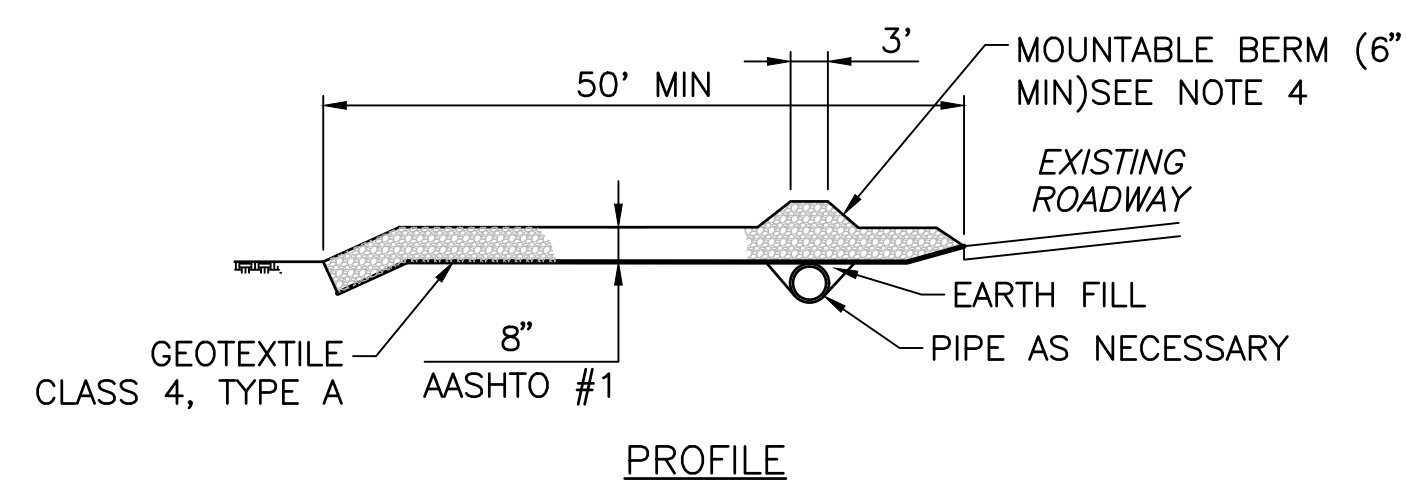


PUMPED WATER FILTER BAG
NOT TO SCALE



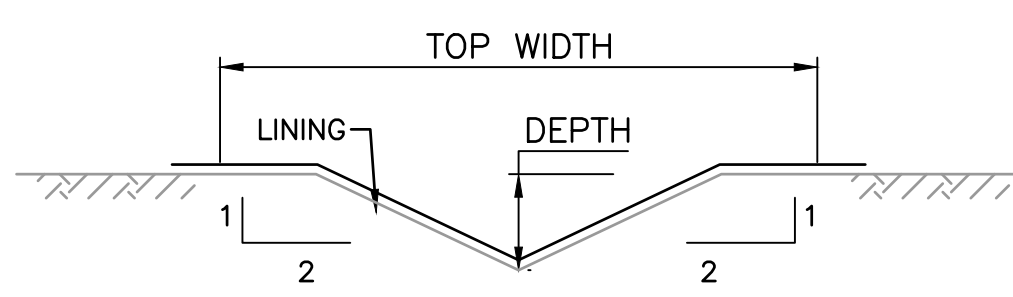
R-5 ROCK OUTLET PROTECTION DETAIL
NOT TO SCALE

- 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. INSTALL BAG TO DRAIN AWAY FROM EV WETLAND AREA. UTILIZE COMPOST FILTER SOCKS (STACKED OR LARGER SIZE) TO DIRECT FLOW FROM BAG AWAY FROM EV WETLANDS AND TOWARDS A STABLE EROSION RESISTANT RECEIVING WATER COURSE.
 4. LOCATE BAG IN AN AREA ACCESSIBLE BY EQUIPMENT FOR MAINTENANCE AND REMOVAL PURPOSES.
 5. DO NOT INSERT MORE THAN ONE HOSE INTO A BAG.
 6. REPLACE THE BAG WHEN 50% OF THE SEDIMENT CAPACITY HAS BEEN FILLED AND/OR WHEN THERE IS A FAILURE.
 7. REMOVE AND PROPERLY DISPOSE OF THE PUMPED WATER FILTER BAGS. RESTORE THE AREA IN ACCORDANCE WITH THE SPECIFICATIONS IN PUBLICATION 408. DO NOT CUT FILTER BAG OR DISTRIBUTE AND SEED SEDIMENT.
 8. DO NOT PERMIT DISCHARGE FROM THE BAG TO DRAIN BACK INTO WORK OR ACCESS AREAS OF THE PROJECT.
 9. FILTER BAG SHALL TRAP PARTICLES LARGER THAN 150 MICRONS.
 10. DO NOT EXCEED A PUMP RATE OF 2840 L/MIN (750 GAL/MIN) OR HALF THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS.
 11. INSTALL COMPOST FILTER SOCK RING AROUND PUMPED WATER FILTER BAG.



ROCK CONSTRUCTION ENTRANCE
NOT TO SCALE

- NOTES:**
1. INSPECT THE ENTRANCE DAILY. REMOVE ALL SEDIMENT DEPOSITED ON THE 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 THE CONTRACT SPECIFICATIONS WHEN ROCK CONSTRUCTION ENTRANCE IS NO LONGER NEEDED.
 6. PROVIDE GEOTEXTILE MATERIAL MEETING THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS. FURNISH AND INSTALL IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. 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.



DITCH SCHEDULE									
DITCH NO.	DITCH TYPE	STATIONS	SIDE	ALIGNMET	DEPTH	BOTTOM WIDTH	TOP WIDTH	SIDE SLOPE	LINING
A	VEE DITCH	674+71.62 TO 675+67.08	LT	SVRR TRACK	VARIABLES	0	VARIABLES	2:1	GRASS / JUTE
B	VEE DITCH	676+00.00 TO 676+57.02	LT	SVRR TRACK	VARIABLES	0	VARIABLES	2:1	GRASS / JUTE
C	VEE DITCH	676+00.00 TO 676+65.55	RT	SVRR TRACK	VARIABLES	0	VARIABLES	2:1	GRASS / JUTE
D	VEE DITCH	674+89.39 TO 675+67.17	RT	SVRR TRACK	VARIABLES	0	VARIABLES	2:1	GRASS / JUTE

DITCH DETAIL
NOT TO SCALE

- NOTES:**
- ALL LININGS SHALL BE INSTALLED IN ACCORDANCE WITH THE ATTACHED DETAILS.
 - DITCH LININGS SHALL EXTEND BEYOND THE TOP OF THE DITCH.
 - SEE "PERMANENT SEEDING" SPECIFICATIONS ON SHT. ES3.
 - THE USE OF SYNTHETIC MATTING IS PROHIBITED ON STATE FOREST LANDS. IF MATTING IS TO BE USED FOR EROSION AND SEDIMENTATION CONTROL, IT SHOULD BE MADE OF BIO-DEGRADABLE, JUTE MATERIAL. SYNTHETIC MATTING IS MADE OF A STIFF, MICROFILAMENT NETTING THAT MAY ENTANGLE AND CAUSE INJURY OR MORTALITY TO WILDLIFE.

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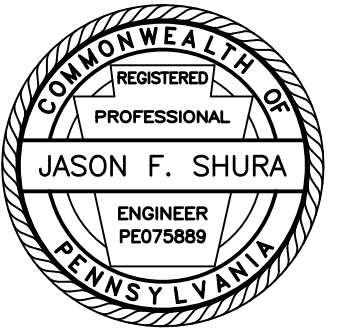
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**EROSION AND
SEDIMENT POLLUTION
CONTROL DETAILS**

PROJECT NO. 19-0001.183
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DESIGNED BY: JES
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ES5

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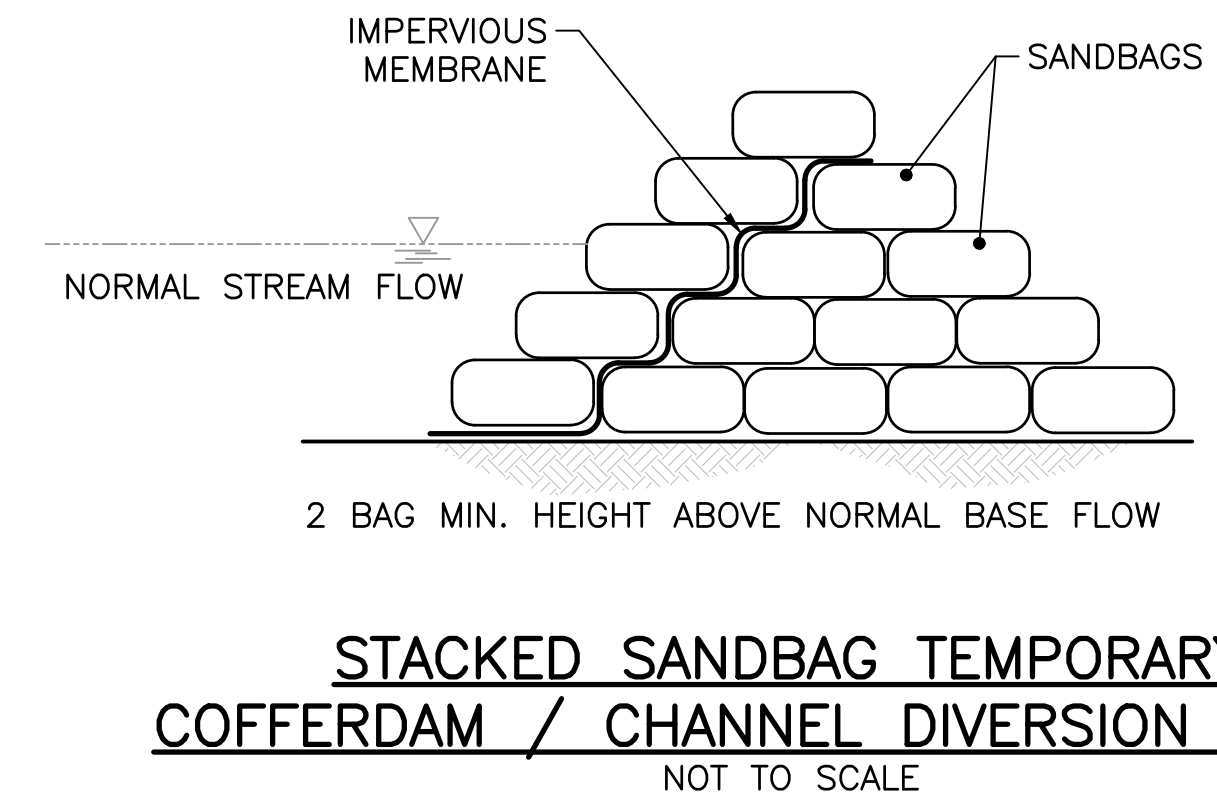
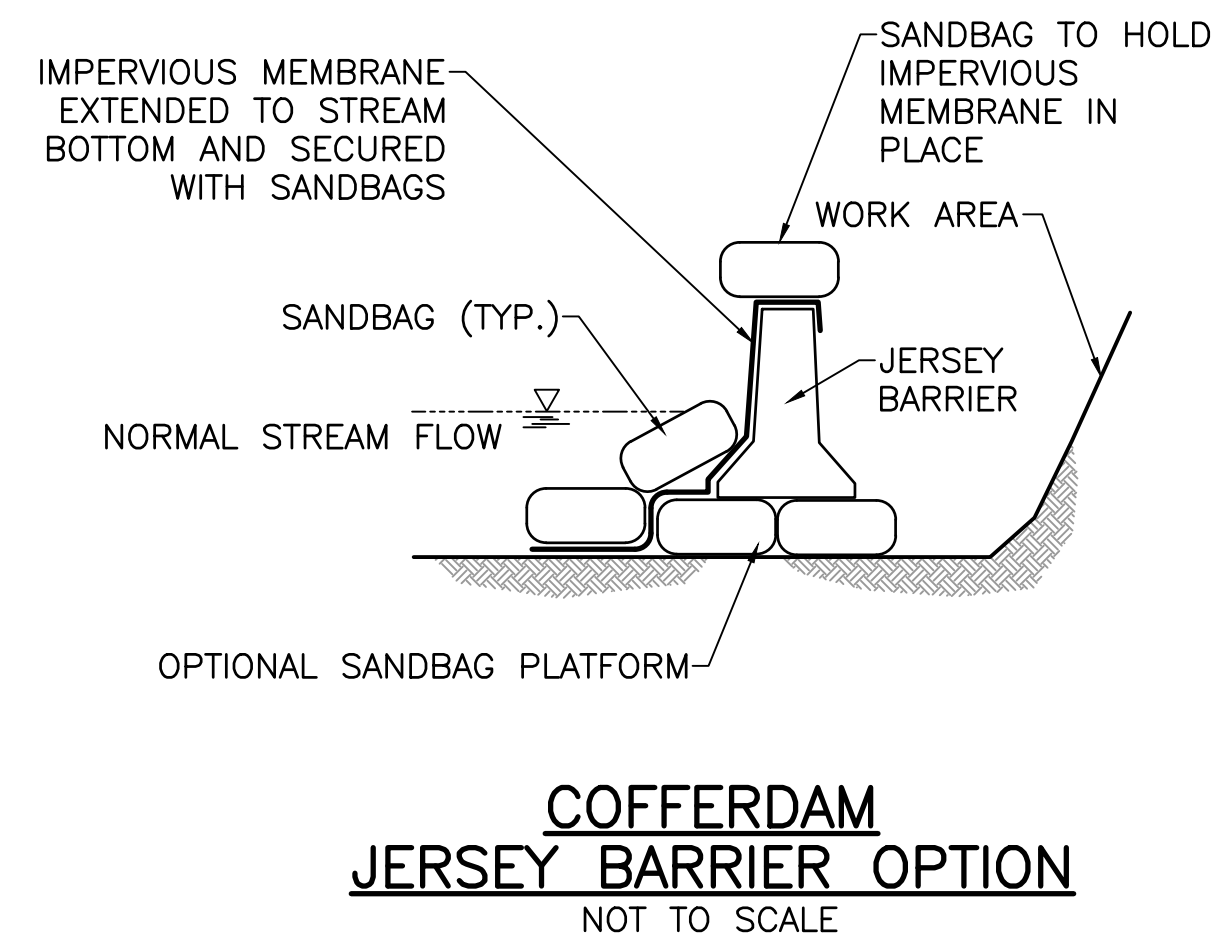
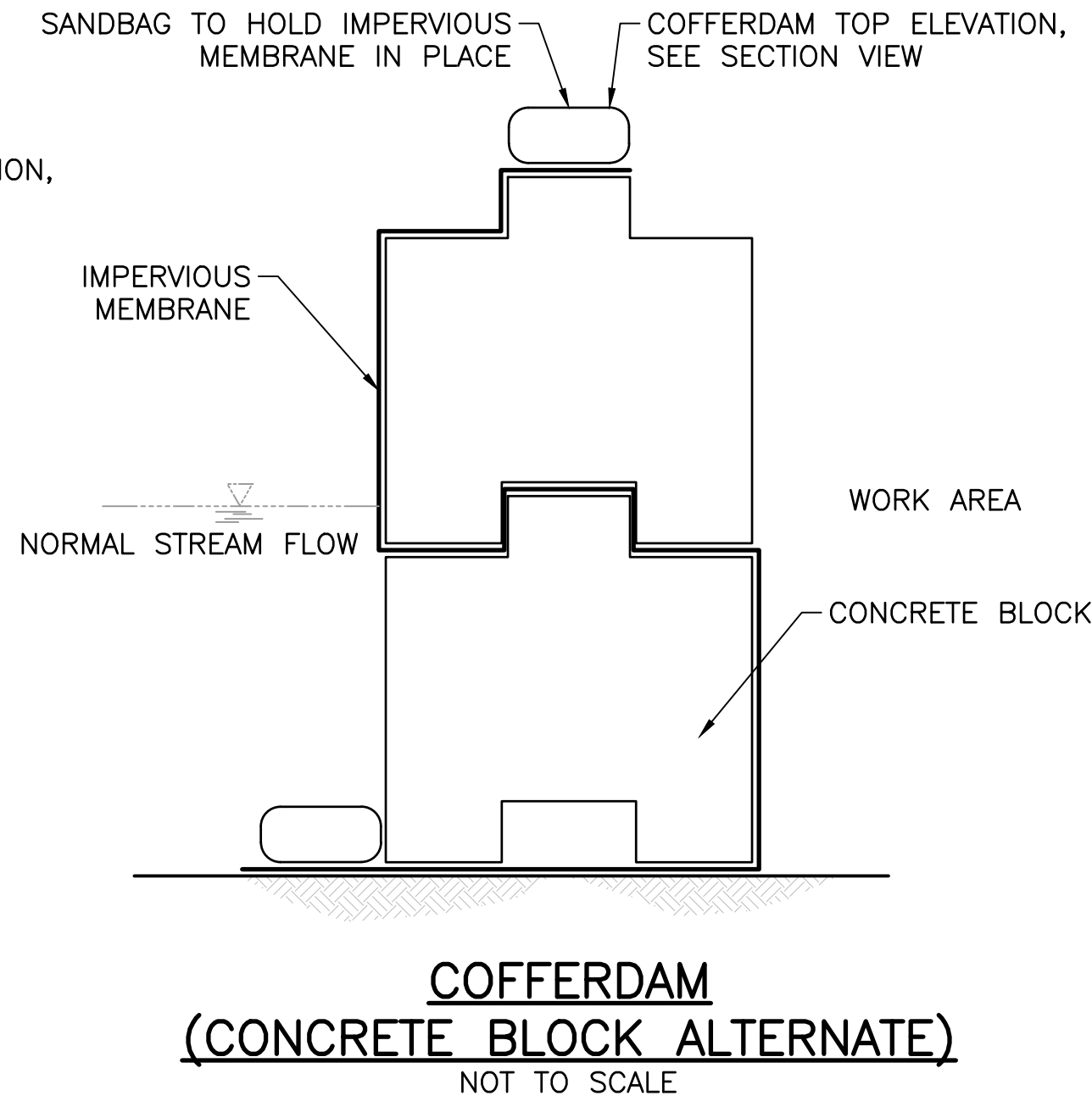
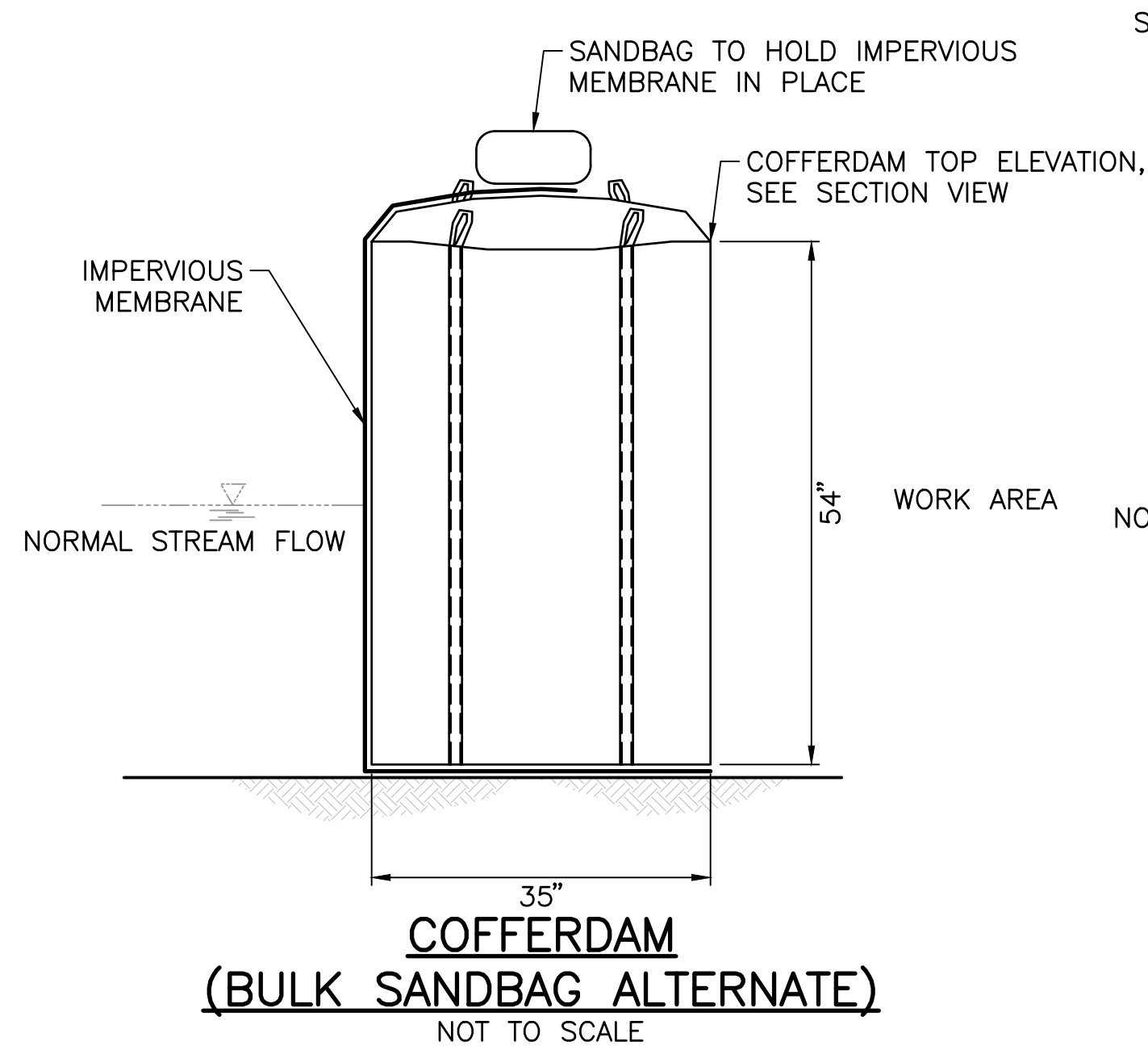
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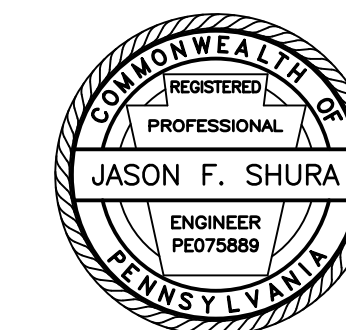
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CONTROL DETAILS**

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CONTRACT DRAWINGS

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Sheet Title:

**EROSION AND
SEDIMENT POLLUTION
CONTROL PLAN**

PROJECT NO. 19-0001.183

DRAWN BY: JDD

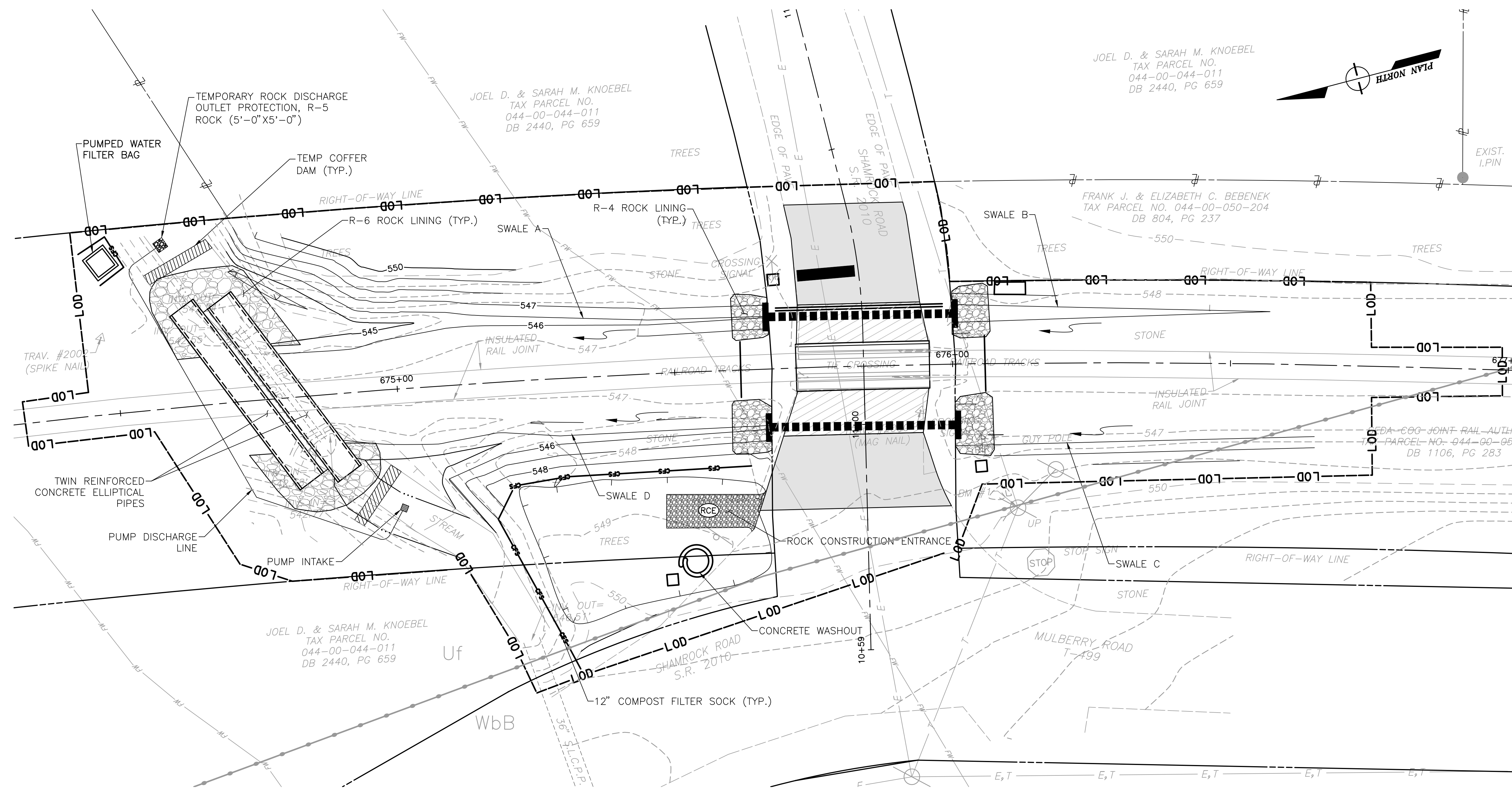
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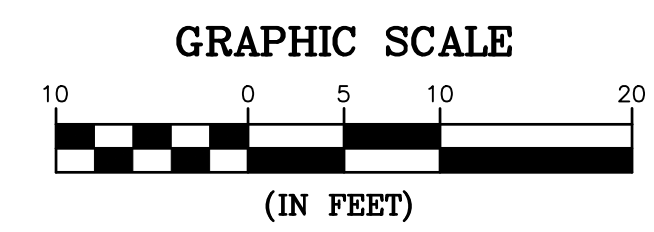
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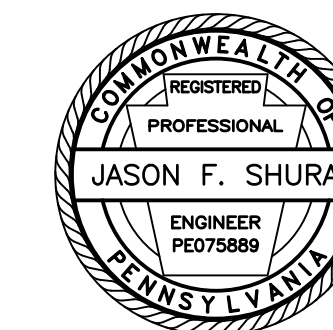


LEGEND

- R-6 ROCK LINING
- FLOODWAY LINE
- EXISTING WATER EDGE
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR
- PROPOSED CONTOUR MAJOR
- PROPOSED CONTOUR MINOR
- LIMIT OF DISTURBANCE
- COMPOST FILTER SOCK
- SOIL TYPE
- SOILS BOUNDARY
- PUMPED WATER FILTER BAG
- TEMPORARY COFFERDAM/STREAM DIVERSION
- TEMPORARY PUMP SYSTEM
- TEMPORARY PUMP DISCHARGE OUTLET PROTECTION, R-5 ROCK (5'-0" X 5'-0" MIN.)
- CONCRETE WASHOUT
- ROCK CONSTRUCTION ENTRANCE



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Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

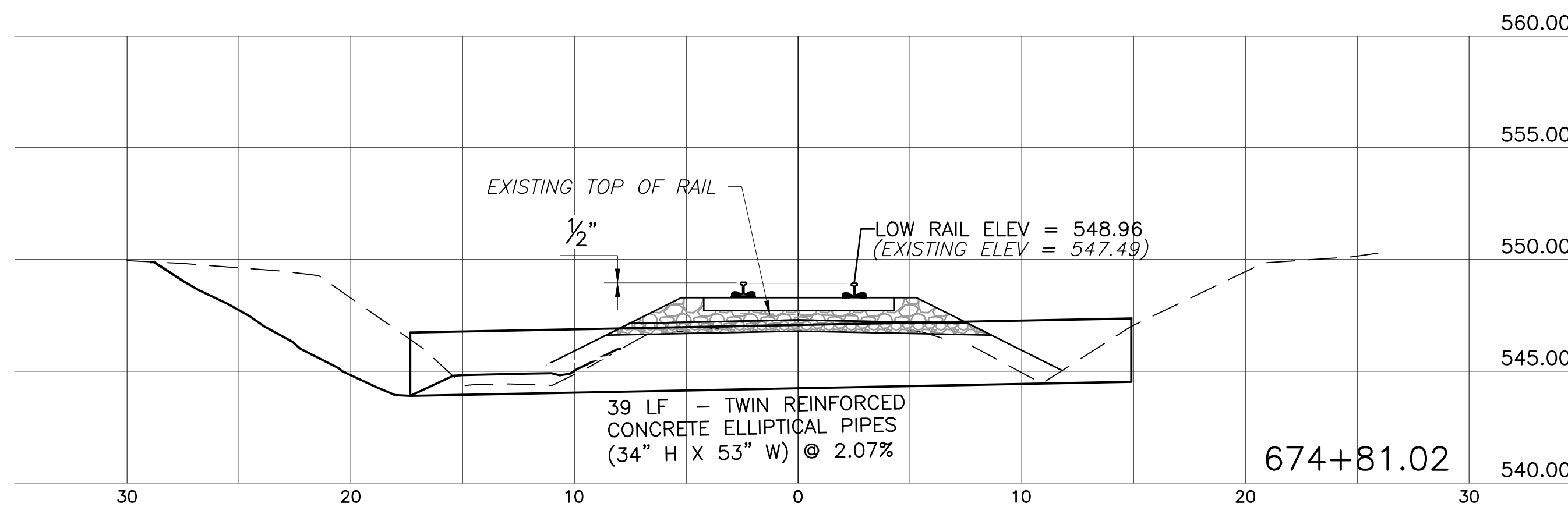
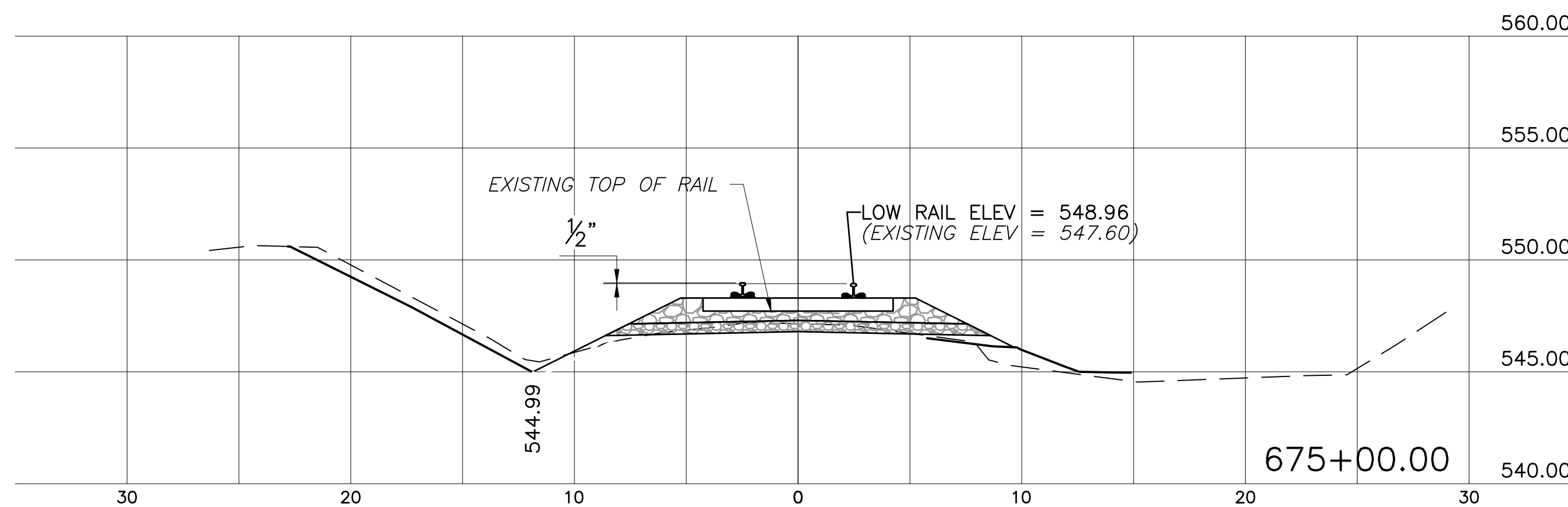
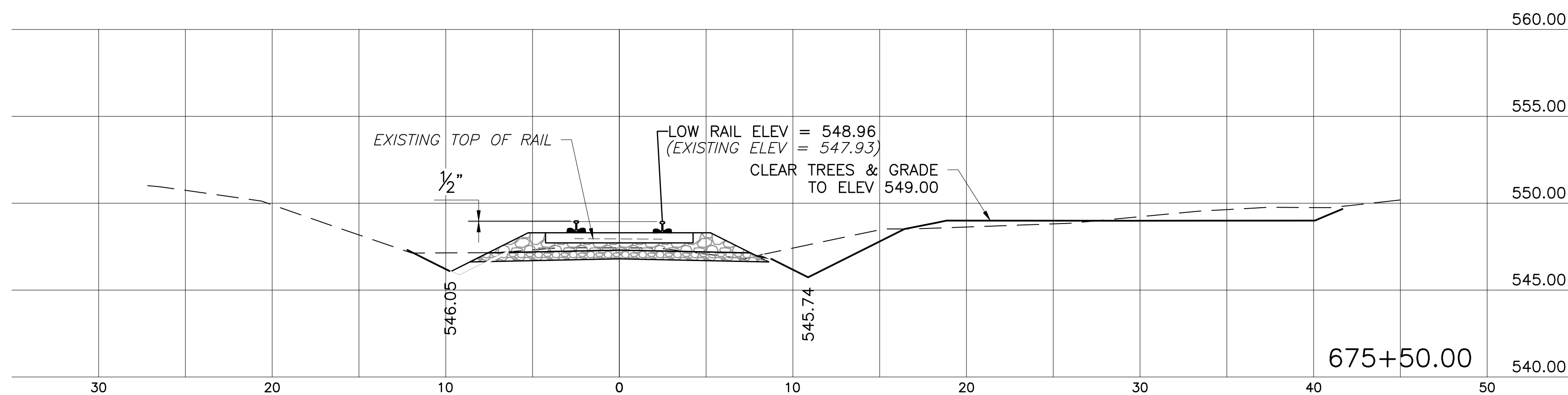
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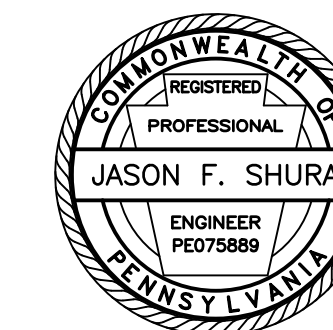
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DESIGNED BY:	JES
CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

X1



STA 674+50.00
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK



Stiffler, McGraw & Associates, Inc.

Owner:
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LEWISBURG, PA 17837

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NORTHUMBERLAND COUNTY

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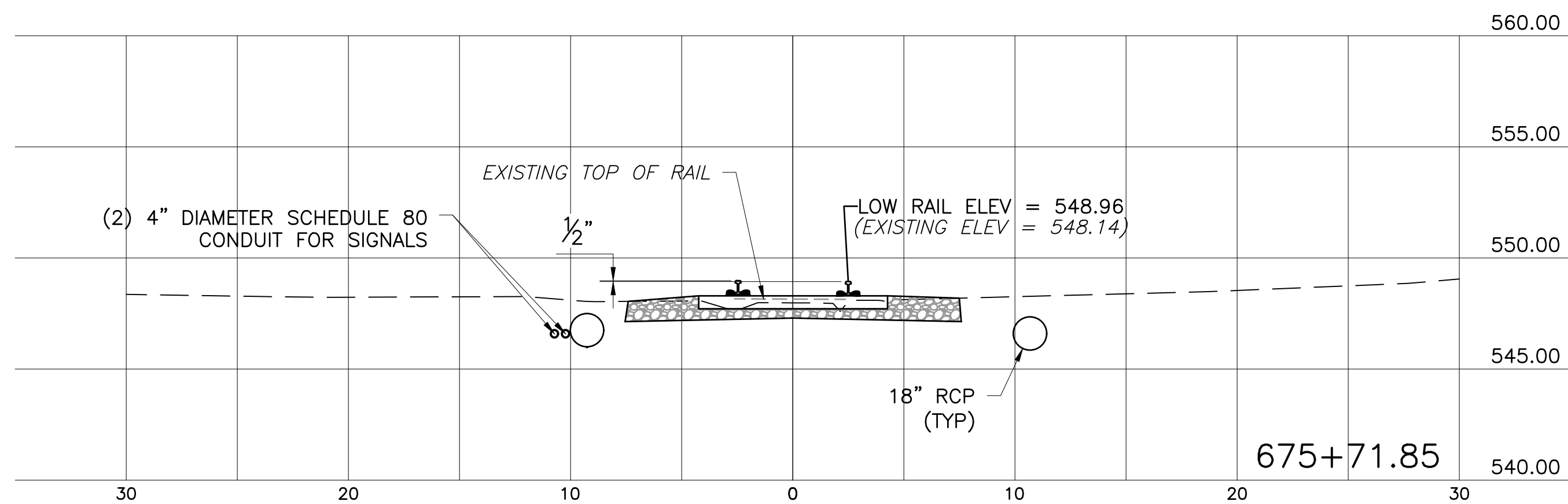
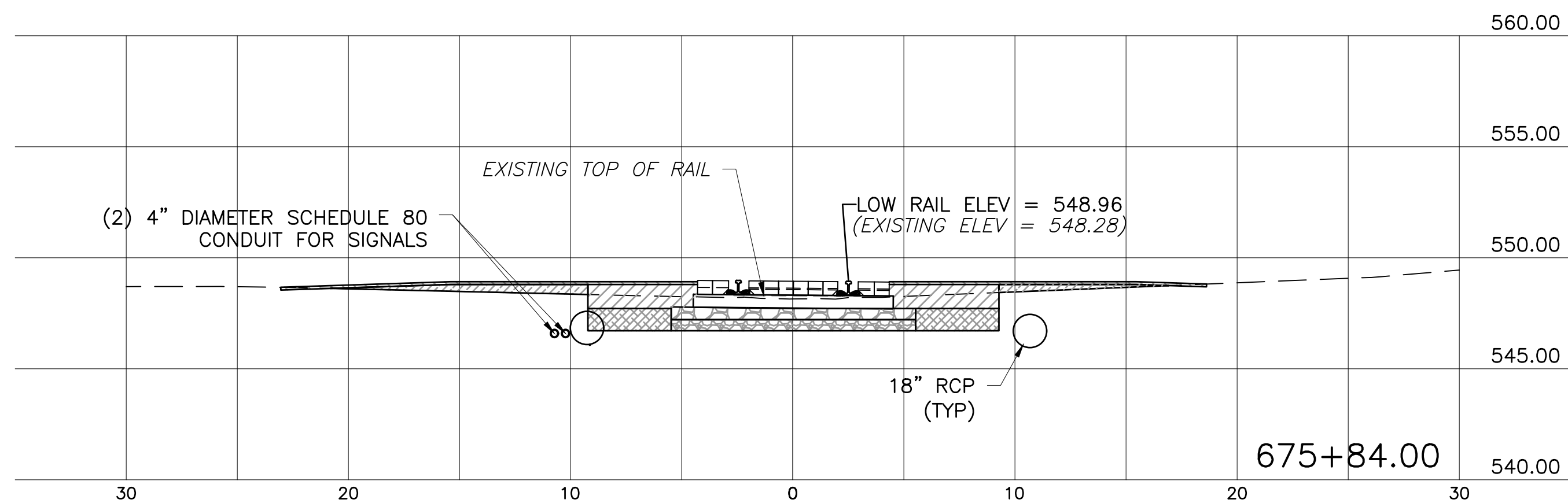
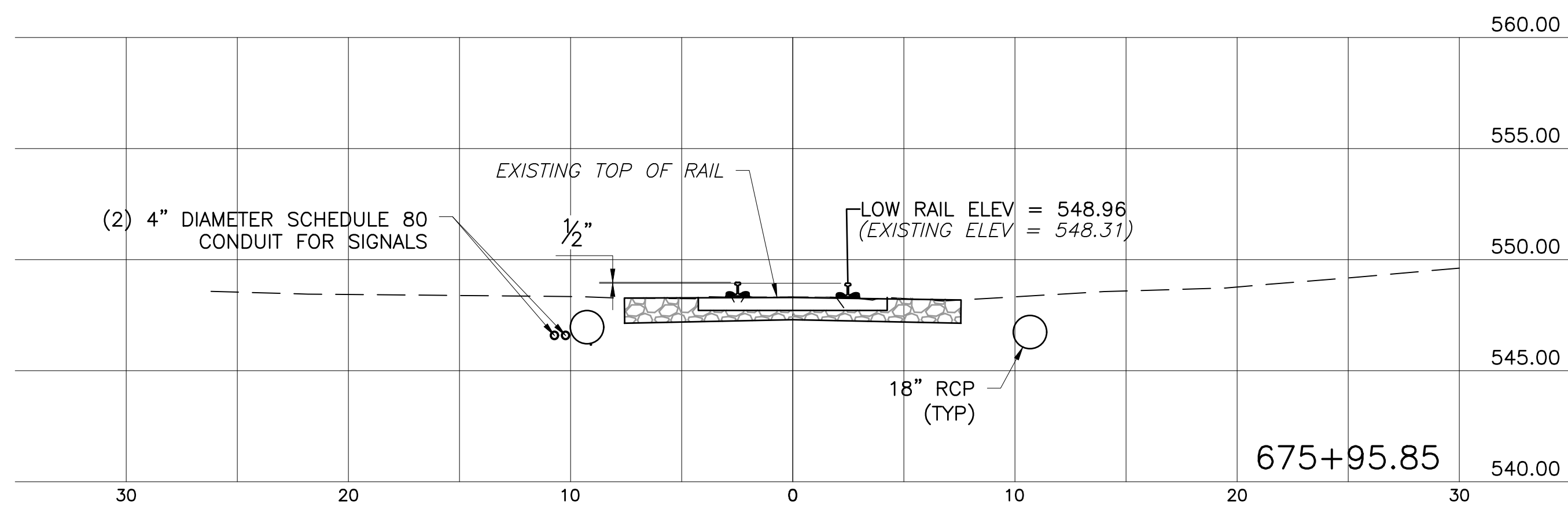
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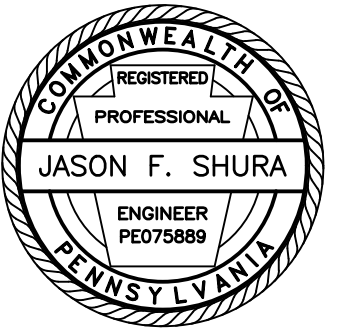
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PROJECT NO.	19-0001.183
DRAWN BY:	AMG
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CHECKED BY:	JFS
SCALE:	AS SHOWN

Drawing:

X2





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201 FURNACE ROAD
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SHAMROCK ROAD GRADE
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SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

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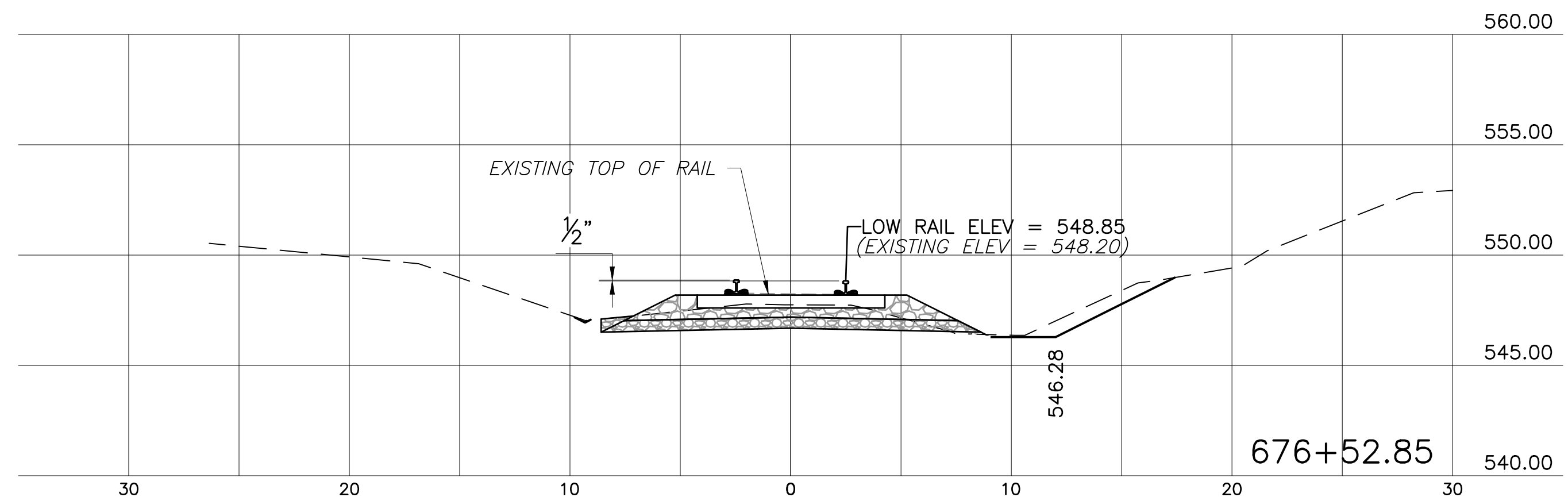
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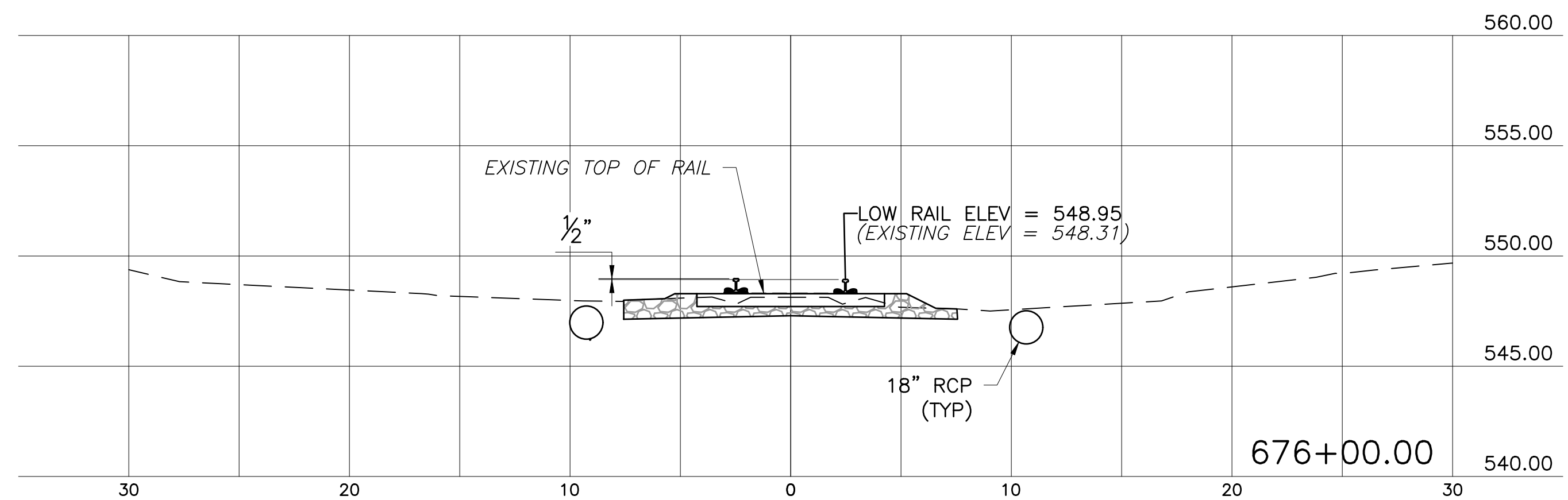
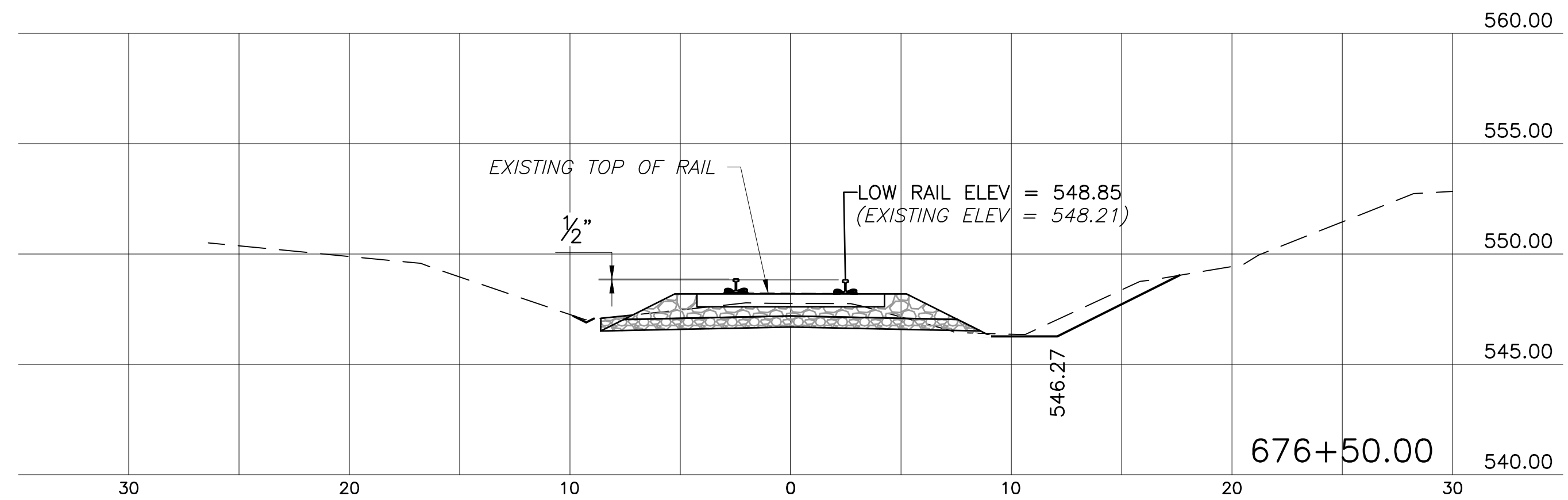
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DESIGNED BY:	JES
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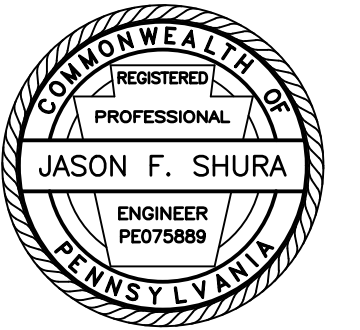
Drawing:

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STA 676+52.85
END CONSTRUCT STANDARD
BALLASTED TRACK





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201 FURNACE ROAD
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Project Name:
SHAMOKIN VALLEY RAILROAD
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SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

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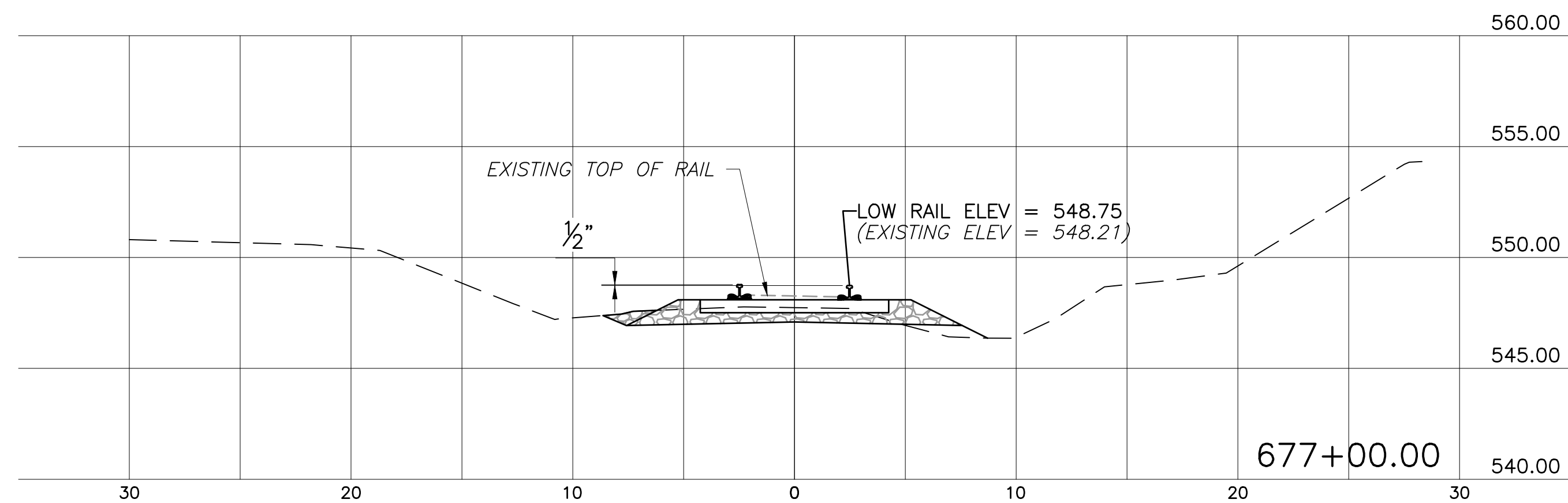
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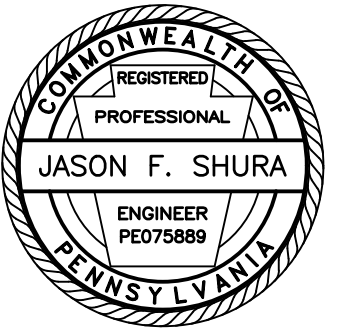
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DRAWN BY:	AMG
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SCALE:	AS SHOWN

Drawing:

X4





Stiffler, McGraw & Associates, Inc.

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SEDA COG JOINT RAIL AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

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SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

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NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

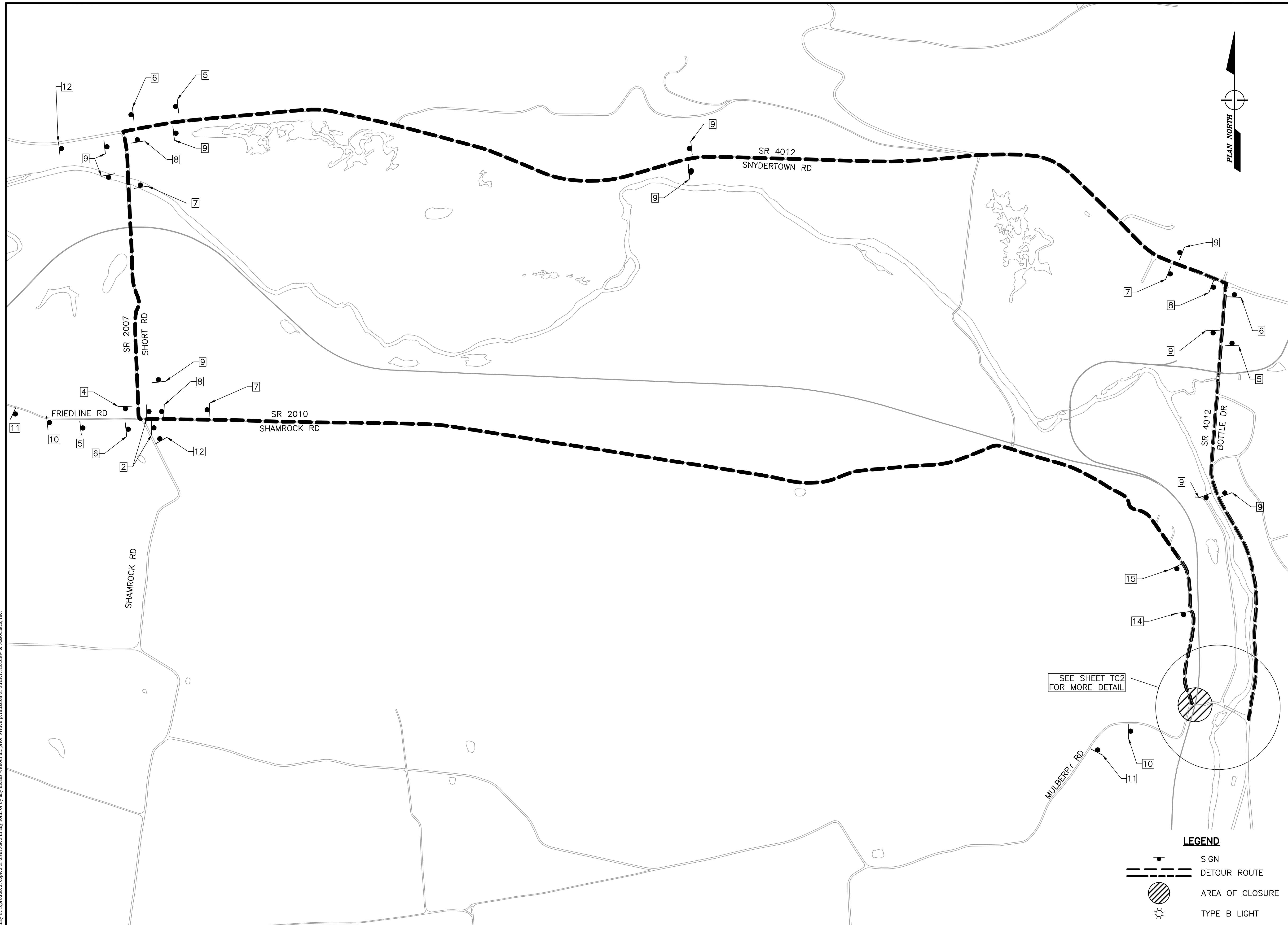
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.183
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	CEB
SCALE:	AS SHOWN

Drawing:

TC1



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Owner:
SEDA COG JOINT RAIL AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SHAMROCK ROAD GRADE
CROSSING REPLACEMENT
PROJECT

CONTRACT NO. 2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETOUR PLAN

PROJECT NO. 19-0001.183

DRAWN BY: AMG

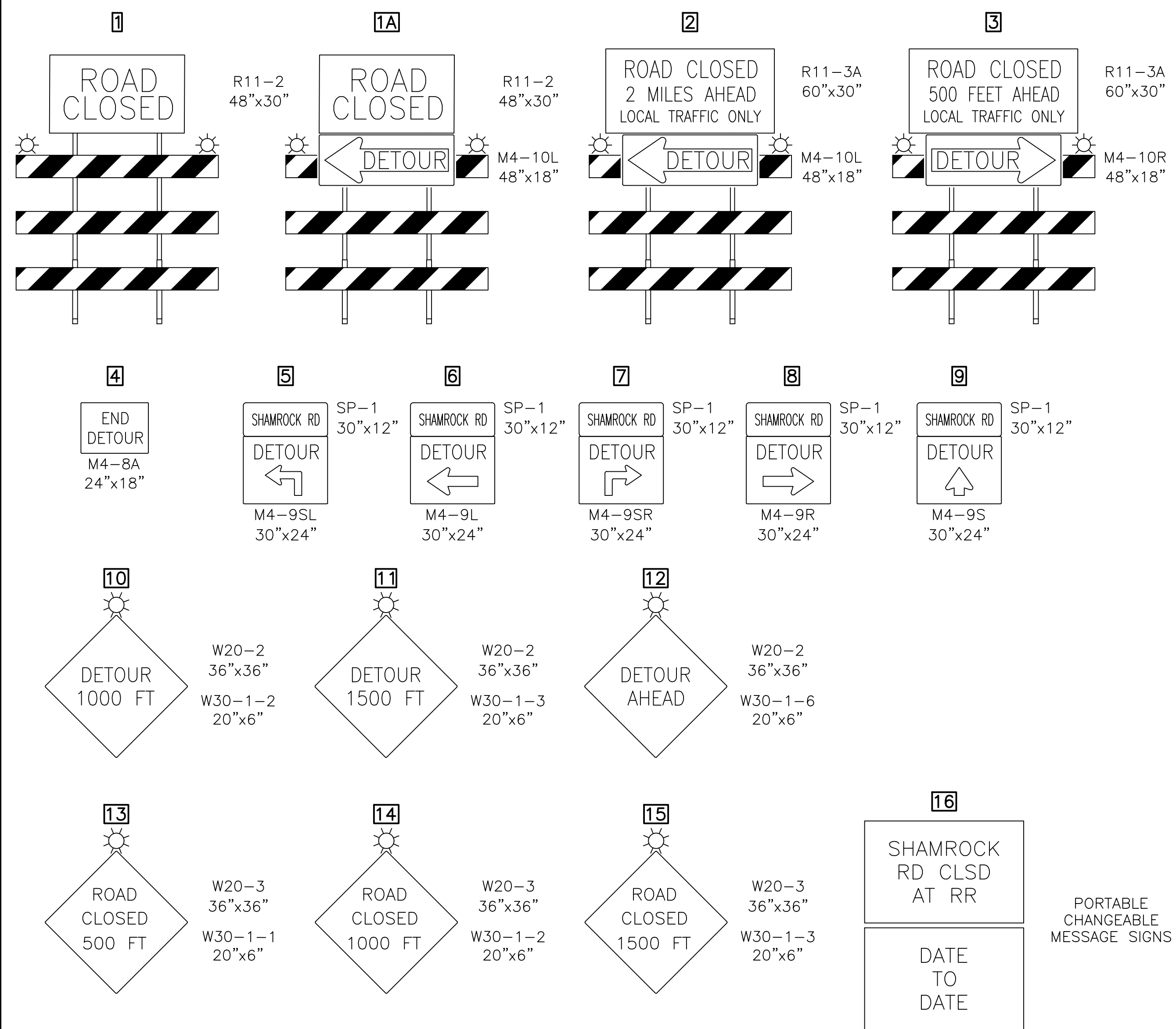
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CHECKED BY: CEB

SCALE: AS SHOWN

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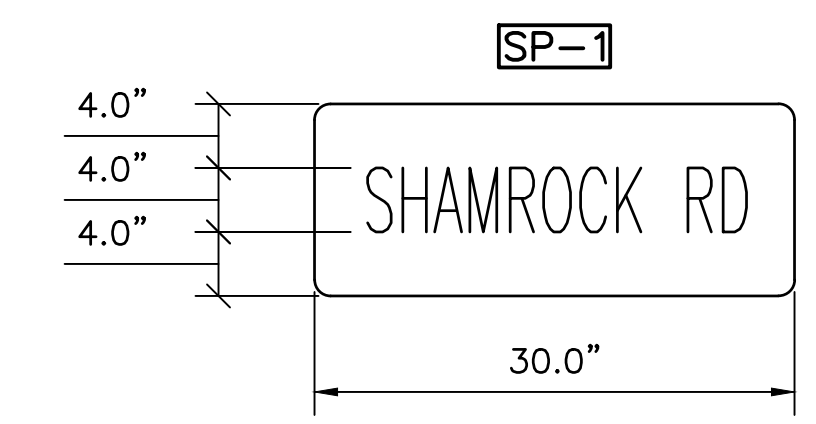
TC2



**TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	5
M4-9R	30" X 24"	RIGHT DETOUR	3
M4-9S	30" X 24"	STRAIGHT DETOUR	12
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	4
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	3
M4-10L	48" X 18"	LEFT DETOUR ARROW	3
M4-10R	48" X 18"	RIGHT DETOUR ARROW	2
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	4
W20-2	36" X 36"	ADVANCE DETOUR	8
W20-3	36" X 36"	ROAD CLOSED	3
W30-1-1	20" X 6"	500 FT	1
W30-1-2	20" X 6"	1000 FT	3
W30-1-3	20" X 6"	1500 FT	3
W30-1-6	20" X 6"	AHEAD	4
SP-1	30" X 12"	SPECIAL SIGN	27
		PORTABLE CHANGEABLE MESSAGE SIGN	2
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

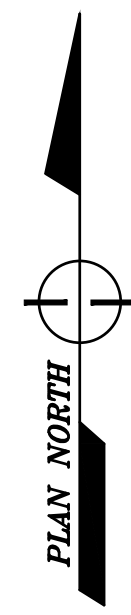
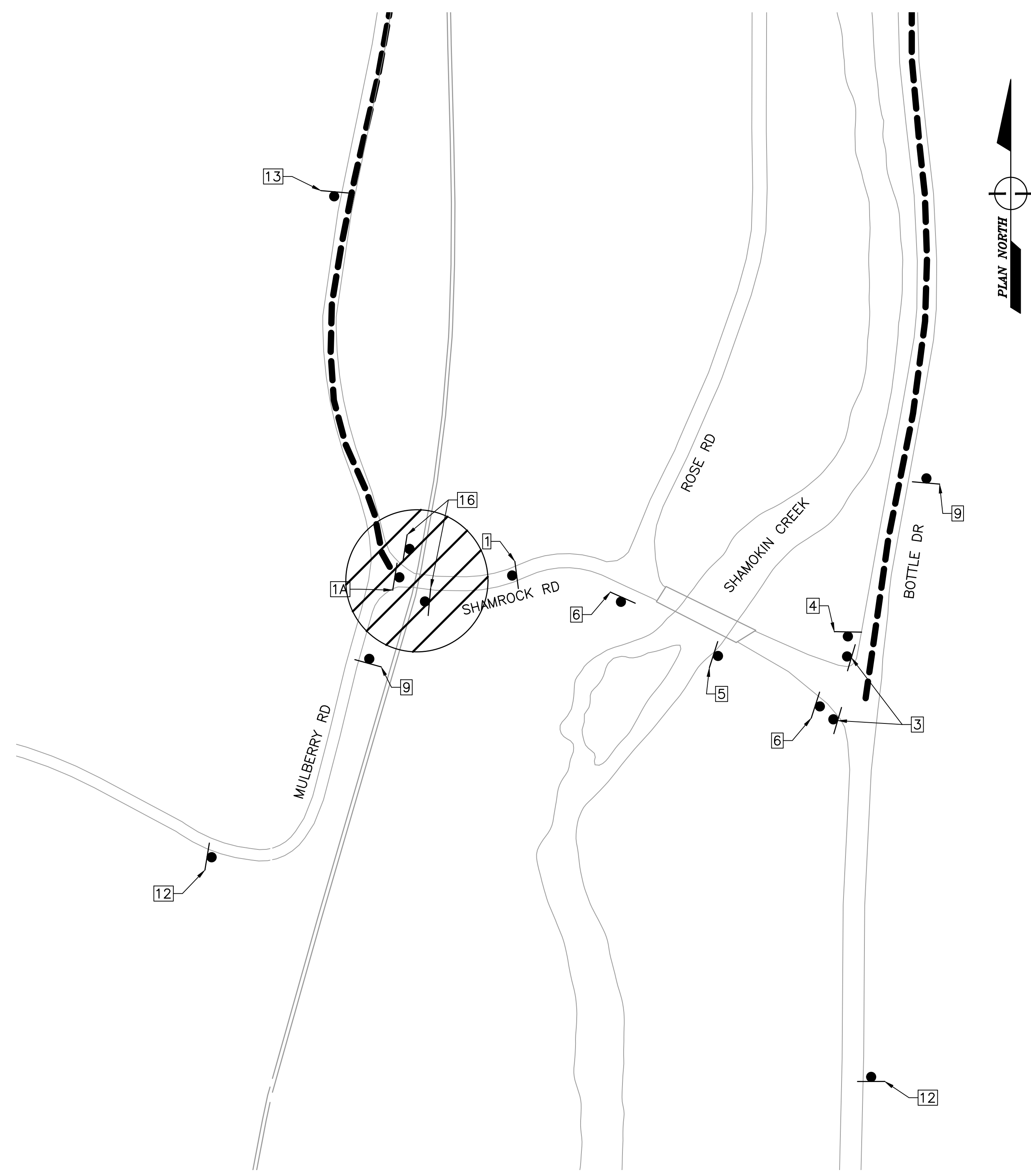
THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"SHAMROCK RD"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

S	H	A	M	R	O	C	K	R	D											
0.3	2.2	0.8	2.2	0.7	2.5	0.7	2.6	0.8	2.2	0.7	2.3	0.7	2.2	0.7	2.2	0.7	2.2	0.8	2.2	0.3
LETTERS = 22.8																				
SPACES = 7.2																				
TOTAL = 30.0																				



SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD READING TURNPIKE (SR 2016) GRADE CROSSING REPLACEMENT PROJECT

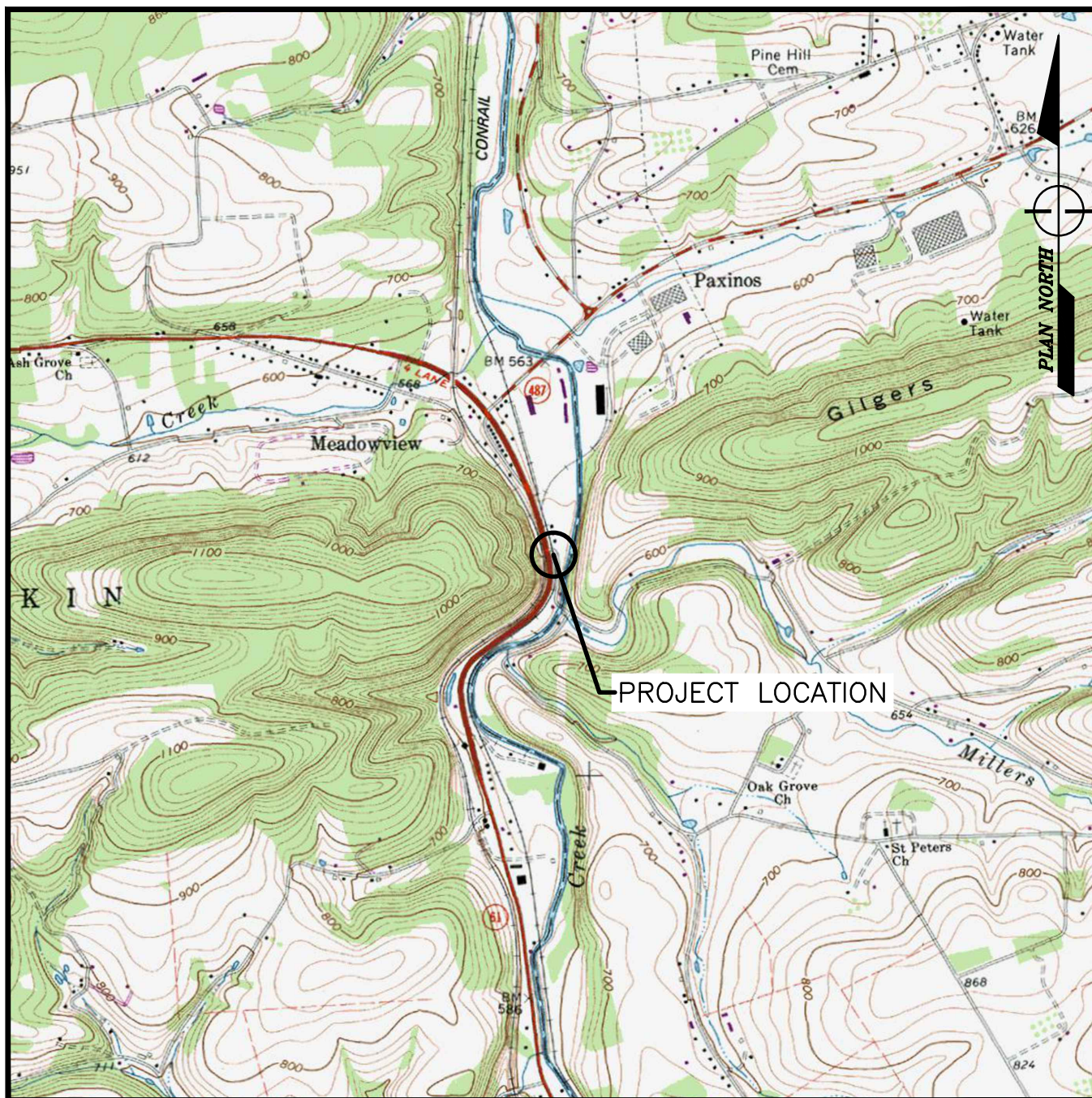
SHAMOKIN TOWNSHIP, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

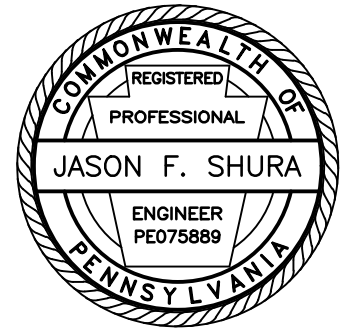
INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	PROFILES
C3	TYPICAL SECTIONS
C4	DETAILS
TC1	DETOUR PLAN
TC2	DETOUR PLAN



SHAMOKIN, PENNSYLVANIA, USGS TOPO QUAD
LOCATION MAP
 SCALE: 1" = 2000'



1731 N. Juniata Street
 Hollidaysburg, PA 16648
 Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Revisions:

No.	Date	Description
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Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.184
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1

GENERAL CONSTRUCTION NOTES:

SLANT LETTERING DENOTES EXISTING FEATURES OR FACILITIES.

VERTICAL LETTERING DENOTES PROPOSED FEATURES OR FACILITIES.

VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD88 DATUM.

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON PENNSYLVANIA STATE COORDINATE SYSTEM, NORTH ZONE.

ALL ROADWAY CURVE DATA IS BASED ON ARCH DEFINITION UNLESS OTHERWISE INDICATED

ALL TRACK CURVE DATA IS BASED ON CHORD DEFINITION UNLESS OTHERWISE INDICATED.

CONTRACTOR TO PERFORM CONSTRUCTION STAKEOUT AND CONFIRM ALL ELEVATIONS AND SLOPES PRIOR TO CONSTRUCTION. ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.

SIGNALS AND ELECTRICAL VAULT ARE TO BE REPLACED BY OTHERS. THE PROPOSED LOCATION OF SIGNALS AND ELECTRICAL VAULT SHOWN ON THIS PLAN ARE APPROXIMATE.

THE CONTOURS SHOWN HEREON ARE BASED ON FIELD LOCATED SURVEY POINTS. CONTOURS ARE MERELY AN INTERPOLATION OF THE FIELD SURVEY POINTS. IF ANY DISCREPANCY BETWEEN CONTOUR DATA AND FIELD SURVEY POINTS IS ENCOUNTERED, THE SURVEY POINTS SHALL GOVERN. THE CONTOURS SHALL BE VERIFIED IN RELATION TO THE SURVEY POINTS PROVIDED HERewith BY THE END USER OF THIS DIGITAL FILE PRIOR TO PREPARING A DIGITAL ELEVATION MODEL IN ANY SOFTWARE PACKAGE. IF DISCREPANCY IS FOUND, THE ENGINEER SHALL BE NOTIFIED.

PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FOR INFORMATION ONLY AND DO NOT CONSTITUTE ACTUAL FIELD SURVEYS.

ALL CODES AND STANDARDS REFERENCED IN THESE GENERAL NOTES, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, AND ALL FEDERAL, STATE AND LOCAL REGULATIONS APPLY TO THE DESIGN, CONSTRUCTION, DEMOLITION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS OF THE CODES AND STANDARDS UNLESS NOTED OTHERWISE.

JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SUB-BALLAST SHALL CONSIST OF AASHTO NO. 2A COURSE AGGREGATE, PLACED IN LIFTS NOT TO EXCEED 3 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY WEIGHT DENSITY AS DEFINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557).

BALLAST SHALL CONFORM TO GRADATION SIZE 3 AS RECOMMENDED IN AREMA, CHAPTER 1, PART 2, TABLE NO. 2, RECOMMENDED BALLAST GRADATIONS.

ALL SURFACES SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT PA ONE CALL SYSTEM, INC.
PHONE: 1-800-242-1776
PA ONE CALL SERIAL NUMBER: 20230622234 FOR SHAMOKIN TOWNSHIP, NORTHUMBERLAND COUNTY

THE CONTRACTOR SHALL EXERCISE CAUTION AND EMPLOY CAREFUL EXCAVATION METHODS DURING INSTALLATION OF THE FACILITIES TO AVOID DAMAGE TO OR CONFLICT WITH EXISTING UTILITIES. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AS NECESSARY AND/OR REQUIRED BY THE ENGINEER TO ASCERTAIN THE HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION IN AFFECTED AREAS AND MAKE THE APPROPRIATE ADJUSTMENTS IN THE FIELD IF CONFLICTS OCCUR.

DESIGN IS BASED ON AVAILABLE INFORMATION PERTAINING TO UNDERGROUND UTILITIES AND FIELD LOCATION WHERE POSSIBLE. SHOULD THE CONTRACTOR ENCOUNTER A SITUATION WHERE IT IS BELIEVED THAT AN EXISTING UNDERGROUND UTILITY WILL NEED TO BE RELOCATED BY THE CONTRACTOR, HE SHALL NOTIFY THE ENGINEER AND A DECISION WILL BE MADE WITHIN TWO (2) WORKING DAYS.

DESIGNERS AND CONTRACTORS UTILIZING THESE DRAWINGS AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF LOCAL AND STATE REGULATIONS FOR UNDERGROUND UTILITY LINE PROTECTION.

SCOPE OF WORK:

REPLACE THE EXISTING RAILROAD GRADE CROSSING, RE-GRADE THE APPROACH TRACK, AND REPLACE PAVEMENT ON BOTH APPROACHES AS SHOWN ON THESE PLANS. SIGNAL MASTS AND ELECTRICAL HOUSE ARE TO BE REPLACED BY OTHERS.

RAILROAD TRAFFIC:

CONSTRUCTION OF THE NEW GRADE CROSSING AND APPROACH TRACK WORK WILL TAKE PLACE DURING A SINGLE FOUR DAY TRACK OUTAGE. THE OUTAGE WILL BEGIN AT 8 AM ON A THURSDAY AND END AT 8 AM ON THE FOLLOWING MONDAY. DURING THIS TIME, THE RAIL WILL BE OUT OF SERVICE AND THEREFORE, THERE IS NO ANTICIPATED RAIL TRAFFIC DURING THESE OPERATIONS. PAVING ACTIVITIES ON BOTH APPROACHES WILL BE CONDUCTED AROUND SCHEDULED TRAIN TIMES AND ANTICIPATED TRAIN TRAFFIC IS 2 TRAINS PER DAY, MONDAY THROUGH FRIDAY, UNDER A 10 MPH SPEED LIMIT.

FULL TIME FLAGGING OPERATIONS OR INSTALLATION OF DERAILS WILL BE REQUIRED TO PROVIDE ADEQUATE PROTECTION TO ALL WORKERS DURING CONSTRUCTION. FLAGGING AND INSTALLATION/REMOVAL OF DERAILS WILL BE PROVIDED BY SHAMOKIN VALLEY RAILROAD AT NO COST TO THE CONTRACTOR. (THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING RAILROAD FLAGGING AND INSTALLATION/REMOVAL OF DERAILS.). IS RESPONSIBLE FOR SCHEDULING RAILROAD FLAGGING AND INSTALLATION/REMOVAL OF DERAILS. FLAGGING AND INSTALLATION/REMOVAL OF DERAILS WILL BE PROVIDED BY SVRR AT NO COST TO THE

CONTRACTOR.

SPECIFICATIONS:

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, PENNDOT PUBLICATION 408/2020 INCLUDING REVISION NO. 6, AND AREMA MANUAL FOR RAILWAY ENGINEERING, 2018.

DESIGN OF TIMBER COMPONENTS IS IN ACCORDANCE WITH AREMA CHAPTER 7, TIMBER STRUCTURES.

GENERAL:

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

METHODS, PROCEDURES AND THE SEQUENCES (OTHER THAN THAT NOTED ON THE DRAWINGS) OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR'S IMPROPER INSTALLATION OF TRACK ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. IF THERE IS A DISCREPANCY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING THE WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION.

SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURES SUPPLIED IN THE DESIGN DRAWINGS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.

REPRODUCTION OF STRUCTURAL CONTRACT PLANS FOR SUBMITTALS AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BE ELECTRONIC SUBMITTALS IN PDF FORMAT.

WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED AT NO ADDITIONAL COST.

SUMMARY OF PROJECT COORDINATES

BASED ON THE STATE PLANE COORDINATE SYSTEM (PA NORTH ZONE - NAD83)

RTE	STATION	POINT	COORDINATES		BEARING
			NORTHING	EASTING	
READING TURNPIKE CONSTRUCTION ☿	20+00.00	POT	248013.2040	2290878.6438	N78°29'14"E
	20+62.38	PC	248023.8322	2290930.8235	
	20+90.94	PI	248029.5322	2290958.8082	
	21+09.01	PT	248002.3732	2290967.6413	
	21+17.78	PC	247994.0349	22907970.3531	S18°00'59"E
	21+54.72	PI	247958.9065	2290981.7781	
	21+91.61	PT	247922.8555	2290989.8321	
	22+09.13	POT	247905.7562	2290993.6522	
SVRR TRACK ☿	716+14.44	PC	248159.2052	2290896.6186	S15°47'16"E
	719+07.24	PT	247877.4785	2290976.2741	



PUBLIC UTILITY ACT 38 COMPLIANCE AREA COVERED BY ONE CALL

SERIAL NUMBER: 20230622234

USER	STATEMENT
AQUA PENNSYLVANIA INC 204 E SUNBURY STREET SHAMOKIN, PA 17872 JOHN KLINGER JDKLINGER@AQUAAMERICA.COM	FIELD MARKED.
ZAYO 2804 DERBY DR POWELL, OH 43065 DANA COSTA DANA.COSTA@ZAYO.COM	ENGINEERING COMPLETED. A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR.
PPL ELECTRIC UTILITIES CORPORATION 437 BLUE CHURCH RD PAXIONOS, PA 17860 DOUG HAUPT DLHAUPT@PPLWEB.COM	ENGINEERING COMPLETED. A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR.
SHAMOKIN TOWNSHIP 138 OLD READING RD SUNBURY, PA 17801 JON CLEMENS SHAMTWP@PTD.NET	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.
SERVICE ELECTRIC CABLEVISION 6332 POINT TOWNSHIP RD NORTHUMBERLAND, PA 17857 DON PHILLIPS DON.PHILLIPS@SECV.COM	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.
UGI UTILITIES INC 1 UGI DRIVE DENVER, PA 17517 ANALIZ RIVERA ARIVERA1@UGI.COM	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.

PUBLIC UTILITY ACT 38 COMPLIANCE AREA COVERED BY ONE CALL

- PURSUANT TO THE PROVISIONS OF PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017, PENNSYLVANIA LEGISLATURE, STIFFLER, MCGRAW & ASSOCIATES, INC. HAS INSPECTED OR OBTAINED A LIST OF USERS, AS PRESCRIBED BY SECTION 3 OF SAID ACT WITHIN THE POLITICAL SUBDIVISIONS INVOLVED IN THIS PROJECT. INFORMATION ON THE POSITION AND TYPE OF EACH UNDERGROUND LINE WAS REQUESTED NOT LESS THAN TEN (10), NOR MORE THAN NINETY (90), DAYS PRIOR TO THE COMPLETION OF FINAL DESIGN. EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON THE INFORMATION PROVIDED BY THE USERS.
- STIFFLER, MCGRAW & ASSOCIATES INC. DO NOT GUARANTEE THE PRESENCE, LOCATION, OR DEPTH OF ANY PUBLIC OR PRIVATE UNDERGROUND UTILITY OR STRUCTURE WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS.
- PENNSYLVANIA ONE CALL SYSTEM, INC. (1-800-242-1776) SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 3 BUSINESS DAYS BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO ACTUAL EXCAVATION START FOR VERIFICATION AND MARKOUT OF EXISTING UTILITIES.
- CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PUBLIC UTILITY ACT NO. 181 OF DECEMBER 18, 2006.



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

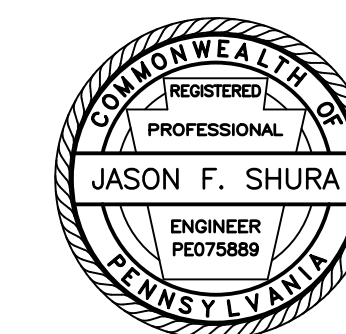
Sheet Title:

GENERAL NOTES

PROJECT NO.	19-0001.184
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

G1



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
1		

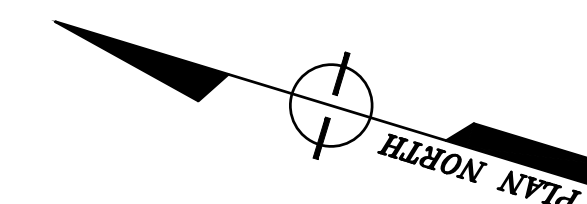
Sheet Title:

SITE PLAN

PROJECT NO.	19-0001.184
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C1



ROADWAY CURVE DATA

P.I. STA. = 20+90.94
Δ = 83° 29' 47"
D = 179' 02' 58"
T = 28.56'
L = 46.63'
R = 32.00'
E = 10.89'
P.C. STA. = 20+62.38
P.T. STA. = 21+09.01

RICHARD DURDACH
TAX PARCEL NO.
044-00-050-058
DB 1931, PG 585

STOP WORK
END FULL DEPTH
RECONSTRUCTION
STA. 20+82.11
READING TURNPIKE

BM #1 ELEV 566.46'
STA 21+96.01 36.80 RT.
MAG NAIL IN UTILITY POLE
#PPL32236/N24794 (GUY)

ROADWAY CURVE DATA

P.I. STA. = 21+54.72
Δ = 5° 25' 22"
D = 7° 20' 44"
T = 36.94'
L = 73.82'
R = 780.00'
E = 0.87'
P.C. STA. = 21+17.78
P.T. STA. = 21+91.61

THOMAS MICHAEL MORGAN
TAX PARCEL NO.
044-00-050-061-A
DB 1053, PG 875

START WORK
BEGIN REALIGN TRACK
STA. 716+30.00
SVRR TRACK

END REALIGN TRACK
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK
STA. 716+84.41
SVRR TRACK

END GRADE CROSSING
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK
STA. 717+84.41
SVRR TRACK

SEDA-COG JOINT RAIL AUTHORITY
TAX PARCEL NO.
044-00-050-202
DB 1106, PG 283

NEW RR CROSSING SIGNAL
(BY OTHERS)
NEW ELECTRICAL VAULT
(BY OTHERS)

END GRADE CROSSING
BEGIN CONSTRUCT STANDARD
BALLASTED TRACK
STA. 717+84.41
SVRR TRACK

TRACK CURVE DATA
DEG = 001° 00' 00"
RAD = 5729.58'
LEN = 292.80'
PC STA = 716+14.44
PT STA = 719+07.24

END CONSTRUCT STANDARD
BALLASTED TRACK
BEGIN GRADE CROSSING
STA. 717+32.41
SVRR TRACK

STA. 20+68.25
READING TURNPIKE
STA. 717+55.00
SVRR TRACK
(MILEPOST 13.59)

12" DIP FULL DEPTH
RECONSTRUCTION
BEGIN GRADE CROSSING
STA. 20+63.92
READING TURNPIKE

NEW RR CROSSING SIGNAL
(BY OTHERS)
SR 0061

START WORK
BEGIN FULL DEPTH
RECONSTRUCTION
STA. 20+54.89
READING TURNPIKE

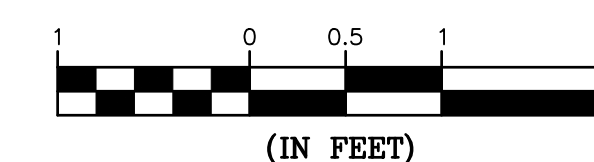
END CONSTRUCT STANDARD
BALLASTED TRACK
BEGIN REALIGN TRACK
STA. 718+32.41
SVRR TRACK

STOP WORK
END REALIGN TRACK
STA. 718+85.00
SVRR TRACK

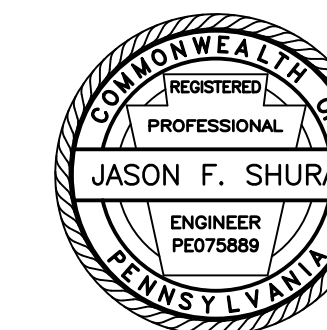
LEGEND

- FULL DEPTH RECONSTRUCTION
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR

GRAPHIC SCALE



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LEWISBURG, PA 17837

Project Name:
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READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

PROFILES

PROJECT NO. 19-0001.184

DRAWN BY: JDD

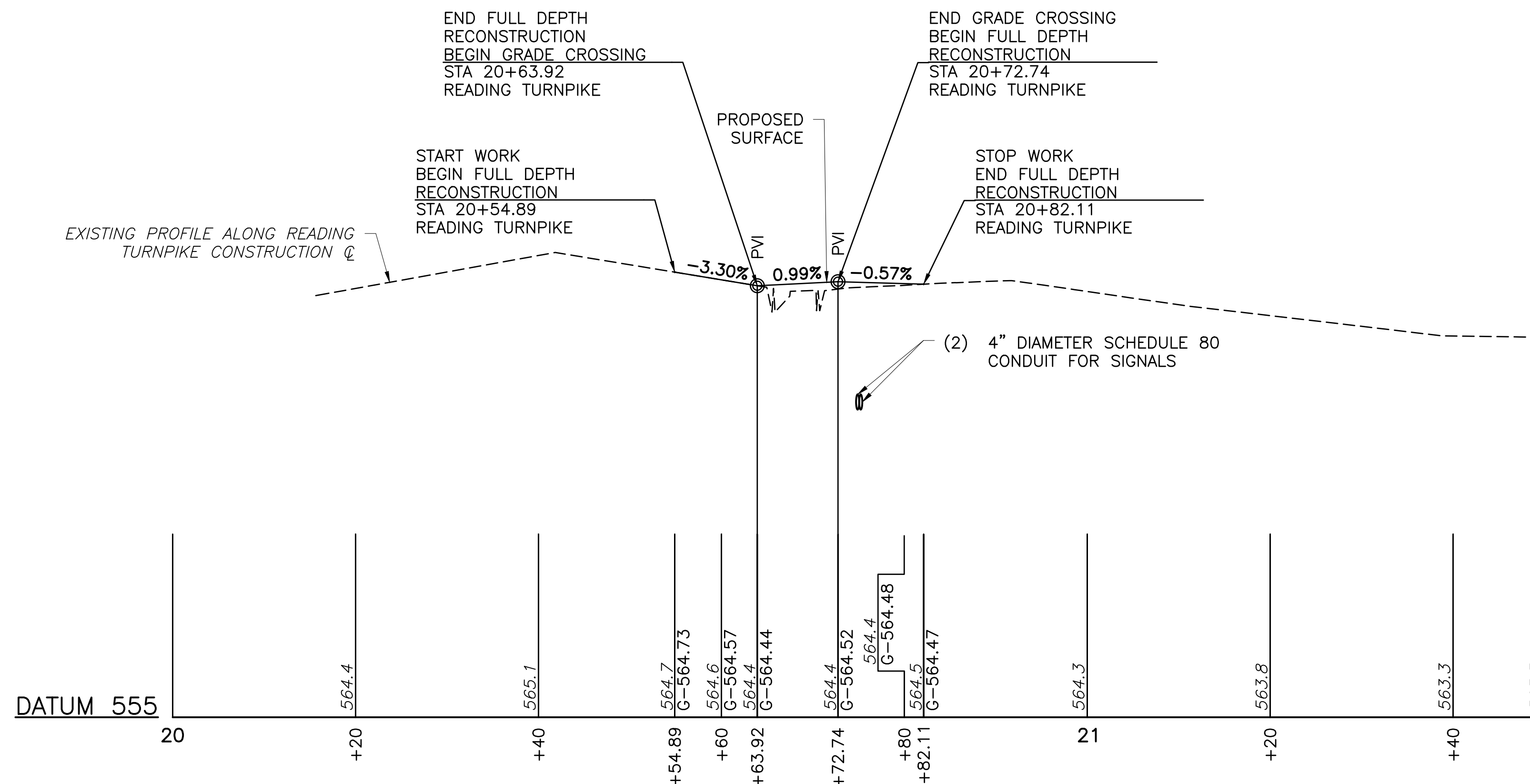
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CHECKED BY: JFS

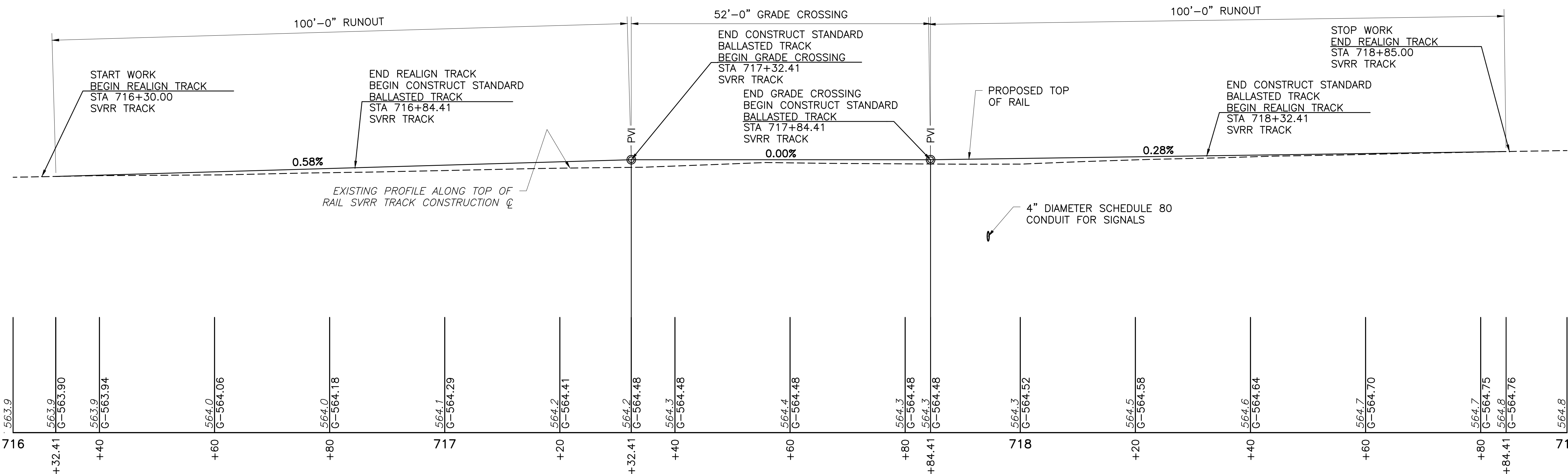
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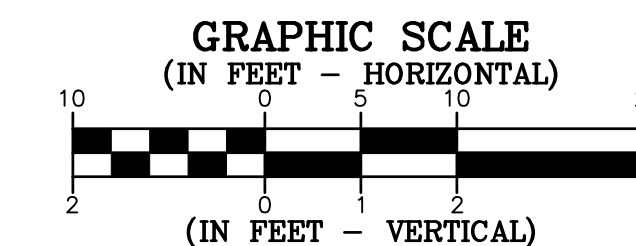
C2



PROFILE - READING TURNPIKE



PROFILE - SVRR TRACK





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LEWISBURG, PA 17837

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CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

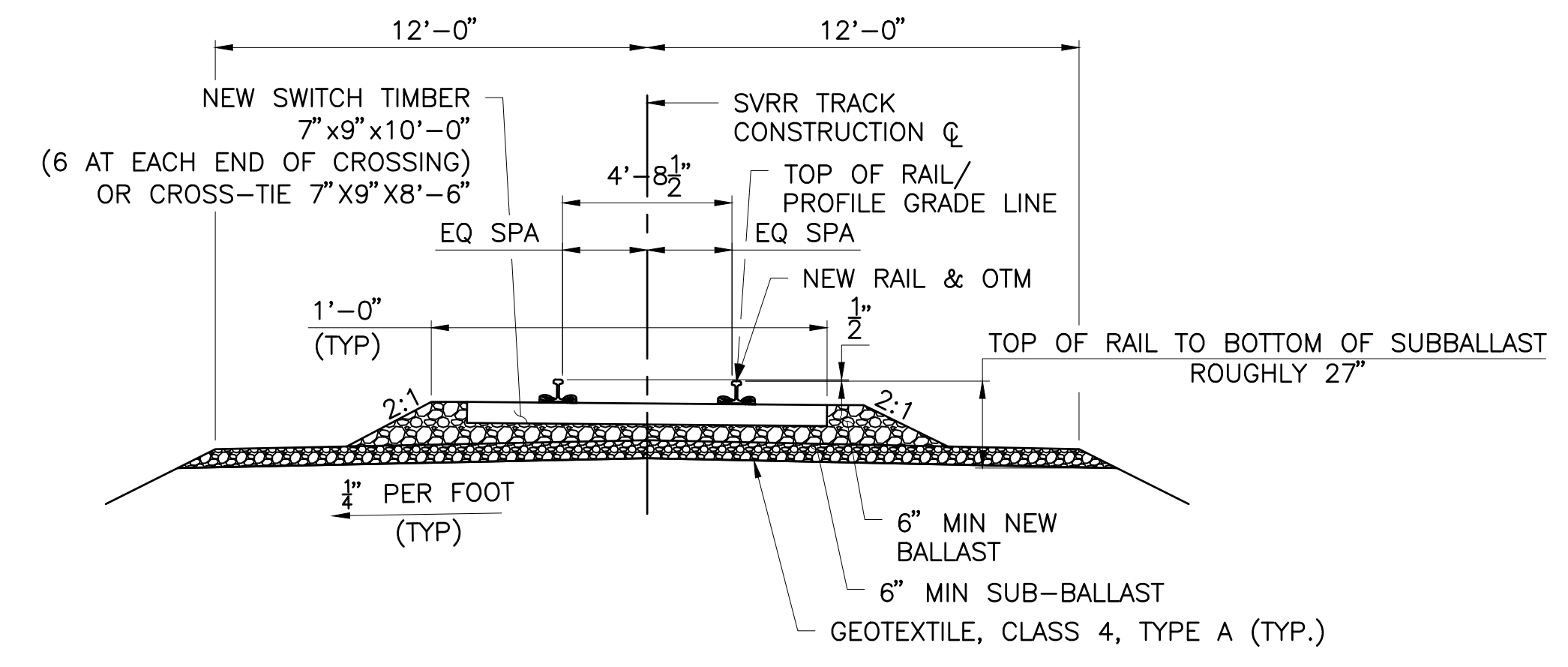
Sheet Title:

TYPICAL SECTIONS

PROJECT NO.	19-0001.184
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

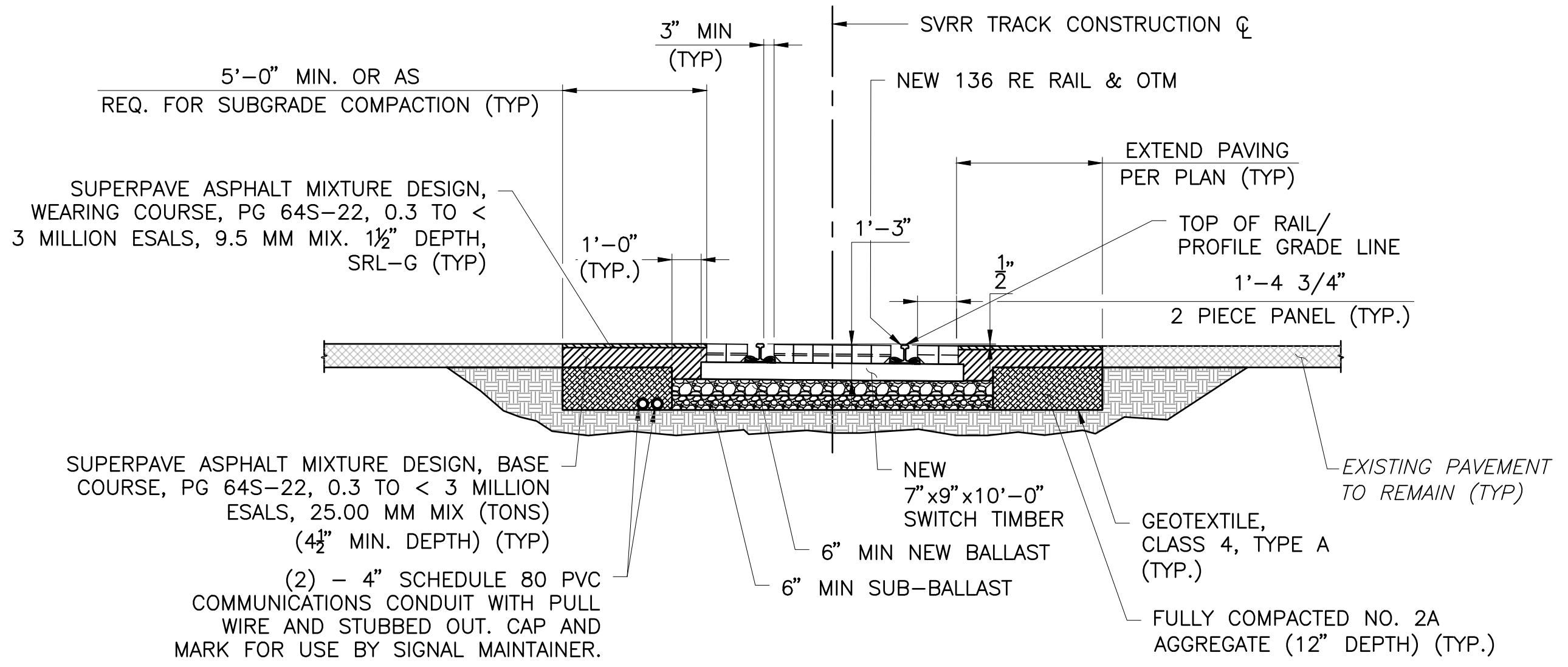
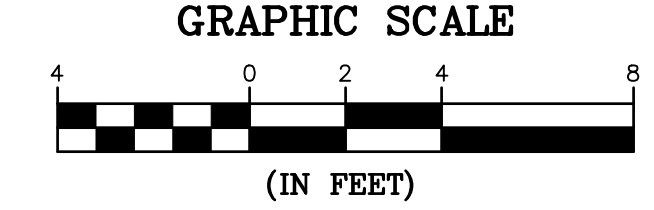
Drawing:

C3



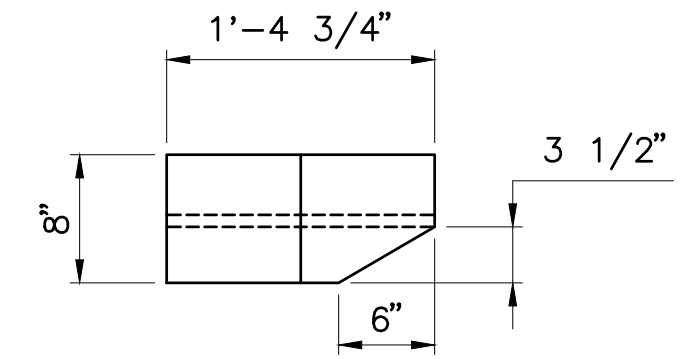
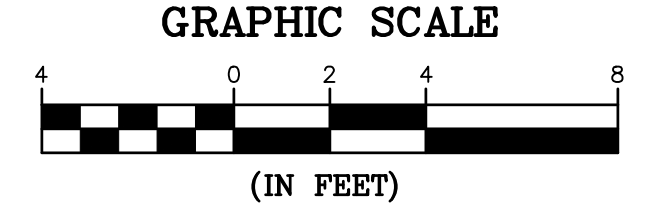
TYPICAL CONSTRUCT STANDARD BALLASTED TRACK SECTION

NOT TO SCALE
STA. 716+84.41 TO STA. 717+32.41
STA. 717+84.41 TO STA. 718+32.41



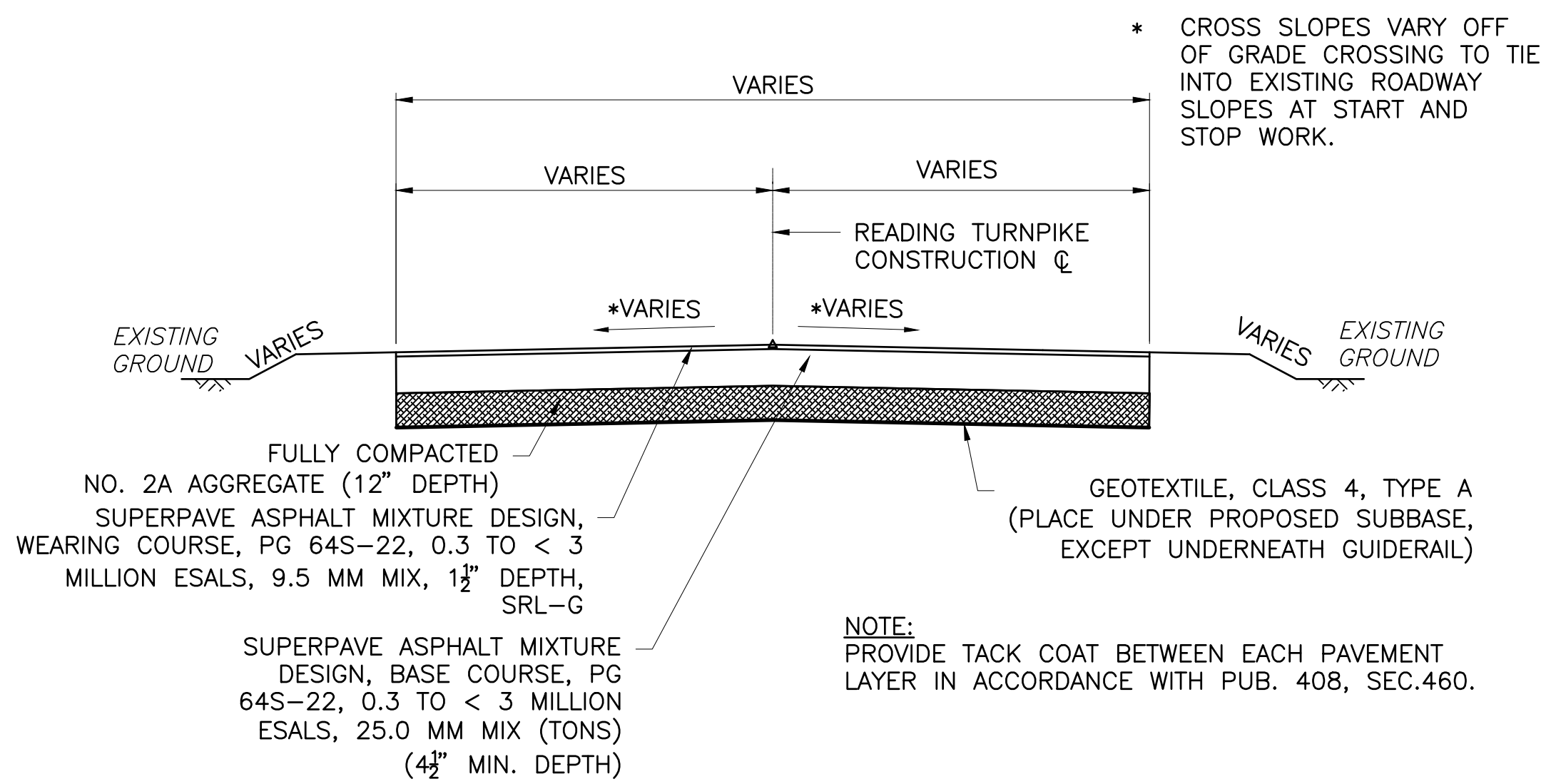
TYPICAL CONSTRUCT TIMBER CROSSING SECTION

STA. 717+32.41 TO STA. 717+84.41



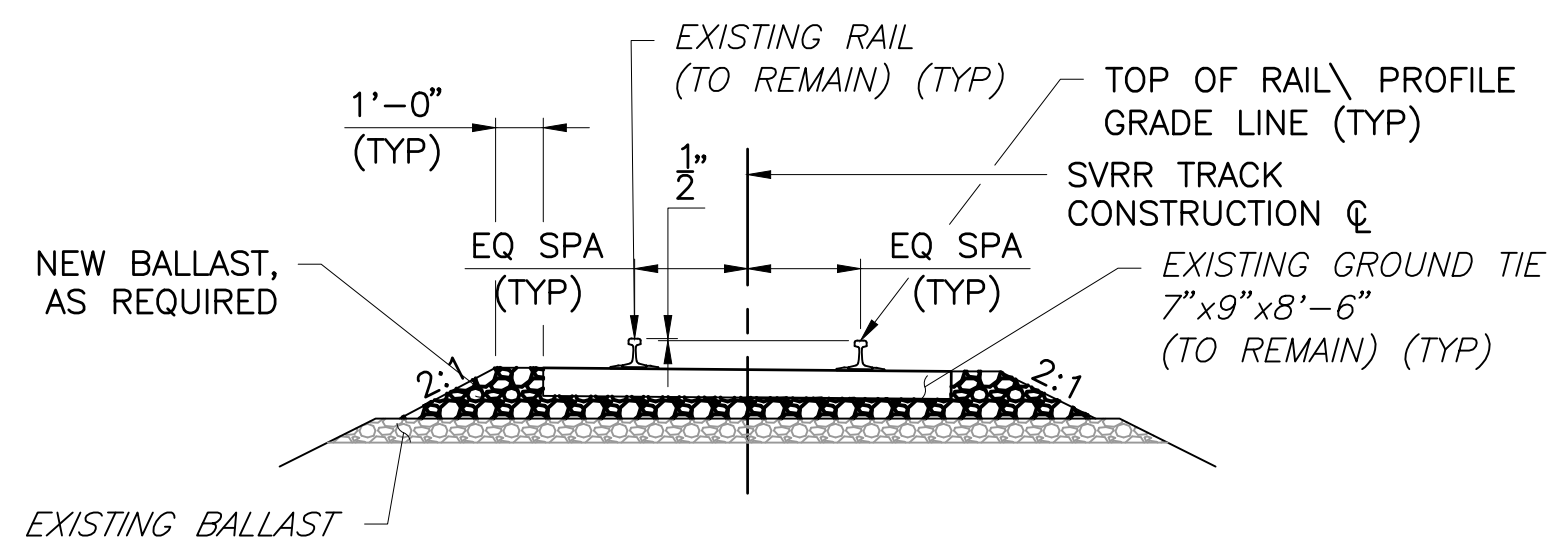
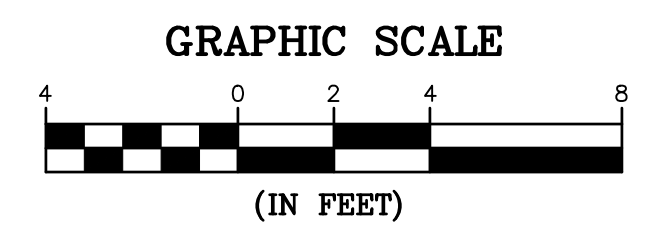
TWO PIECE PANEL DETAIL

NOT TO SCALE



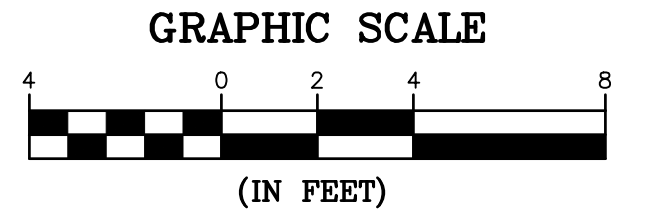
TYPICAL FULL DEPTH RECONSTRUCTION SECTION

STA. 20+54.89 TO STA. 20+63.92
STA. 20+72.74 TO STA. 20+82.11

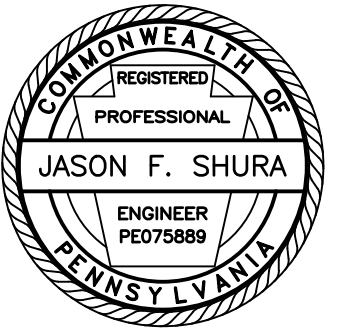


TYPICAL SECTION - REALIGN TRACK

STA. 716+30.00 TO STA. 716+84.41
STA. 718+32.41 TO STA. 718+85.00



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LEWISBURG, PA 17837

Project Name:
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READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

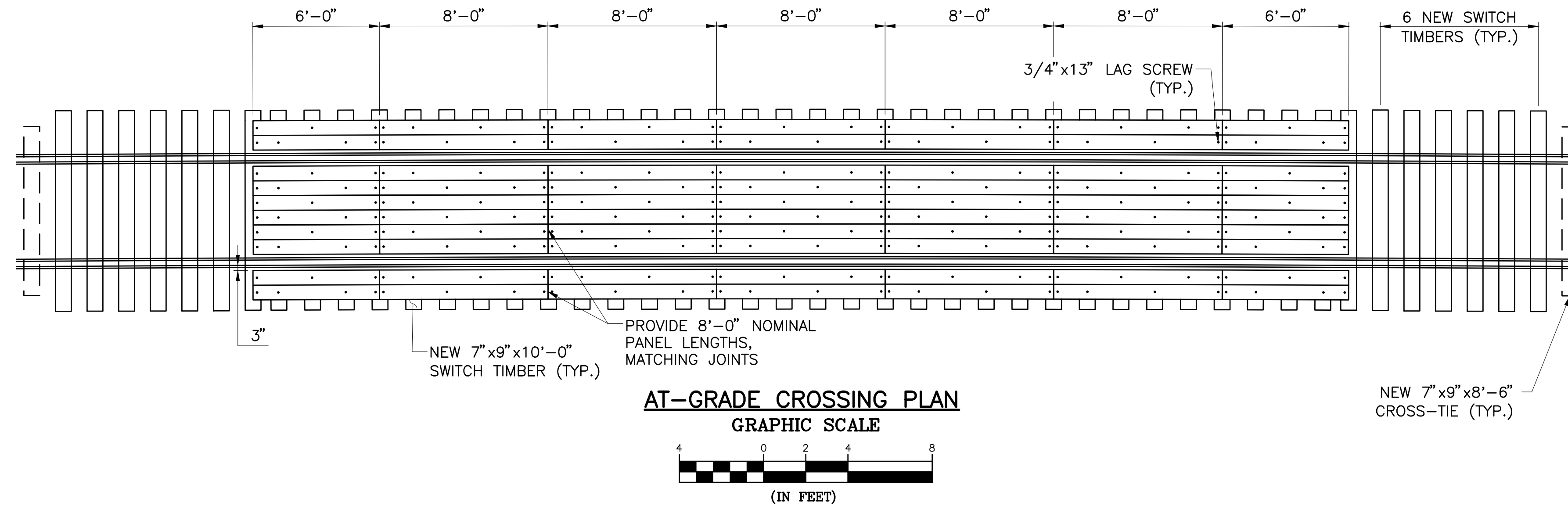
Sheet Title:

DETAILS

PROJECT NO.	19-0001.184
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

C4





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LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

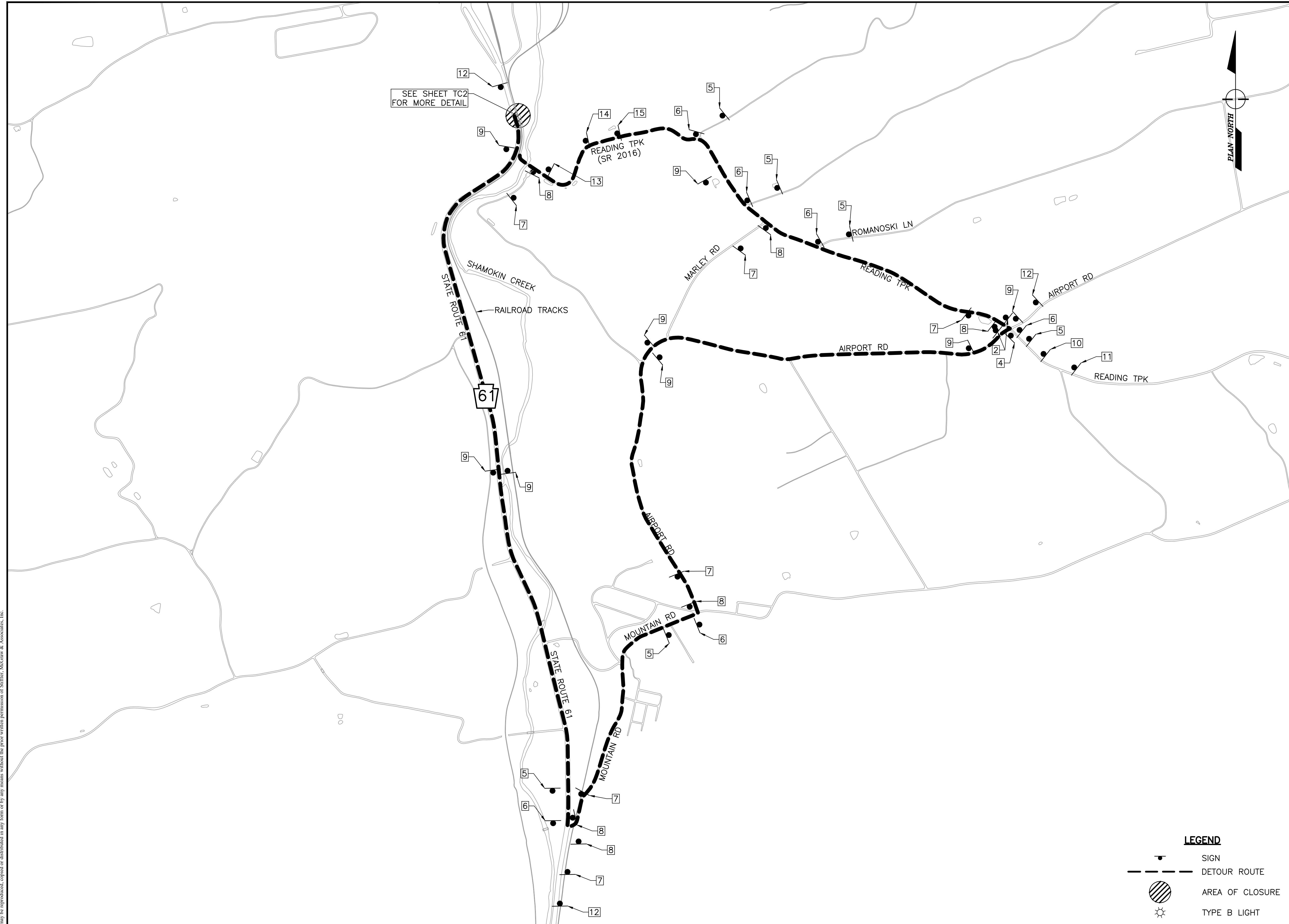
Sheet Title:

DETOUR PLAN





PROJECT NO.	19-0001.184
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	CEB
SCALE:	AS SHOWN

Drawing:

TC1



LEGEND

-  SIGN
-  DETOUR ROUTE
-  AREA OF CLOSURE
-  TYPE B LIGHT

SEE SHEET TC2
FOR MORE DETAIL

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201 FURNACE ROAD
LEWISBURG, PA 17837

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READING TURNPIKE GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SHAMOKIN TOWNSHIP
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description

Sheet Title:

DETOUR PLAN

PROJECT NO. 19-0001.184

DRAWN BY: AMG

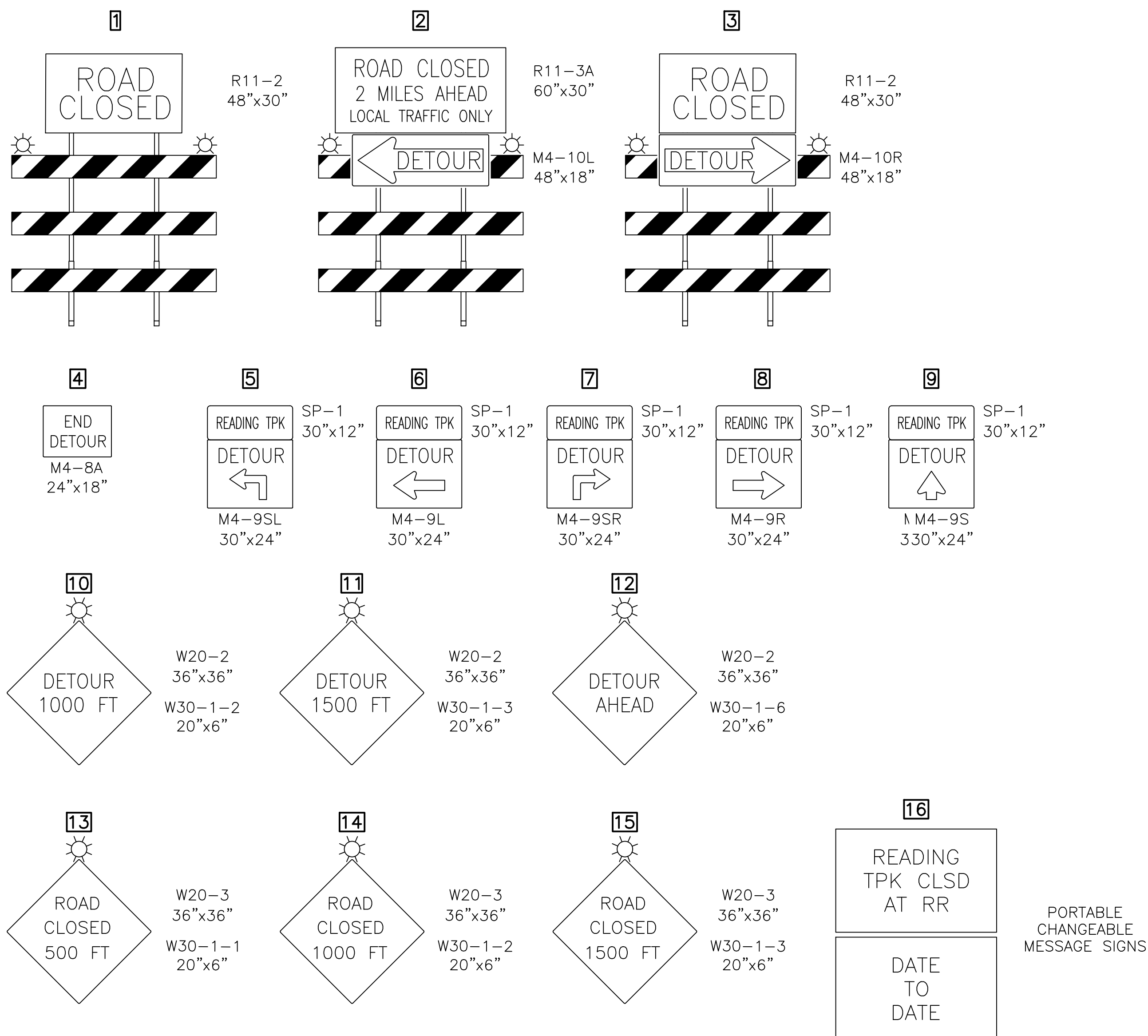
DESIGNED BY: JES

CHECKED BY: CEB

SCALE: AS SHOWN

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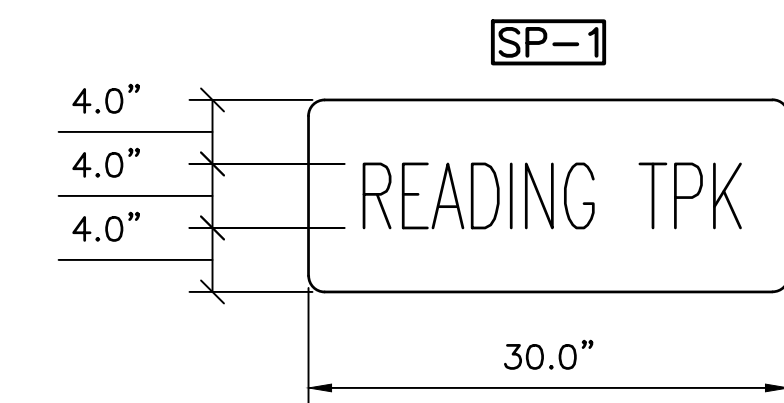
TC2



**TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	6
M4-9R	30" X 24"	RIGHT DETOUR	6
M4-9S	30" X 24"	STRAIGHT DETOUR	8
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	6
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	6
M4-10L	48" X 18"	LEFT DETOUR ARROW	2
M4-10R	48" X 18"	RIGHT DETOUR ARROW	1
R11-2	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	2
W20-2	36" X 36"	ADVANCE DETOUR	5
W20-3	36" X 36"	ROAD CLOSED	3
W30-1-1	20" X 6"	500 FT	1
W30-1-2	20" X 6"	1000 FT	2
W30-1-3	20" X 6"	1500 FT	2
W30-1-6	20" X 6"	AHEAD	3
SP-1	30" X 12"	SPECIAL SIGN	32
		PORTABLE CHANGEABLE MESSAGE SIGN	2
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*

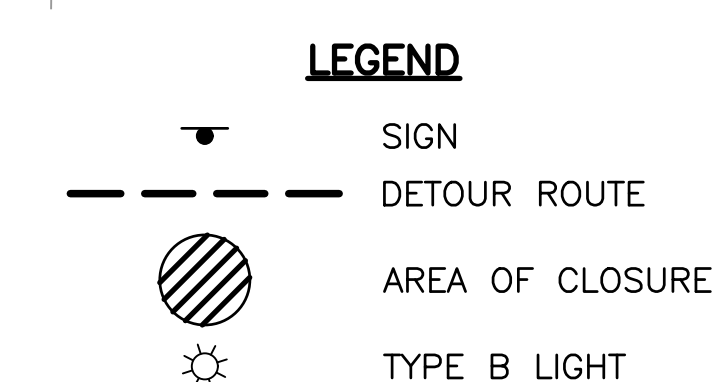
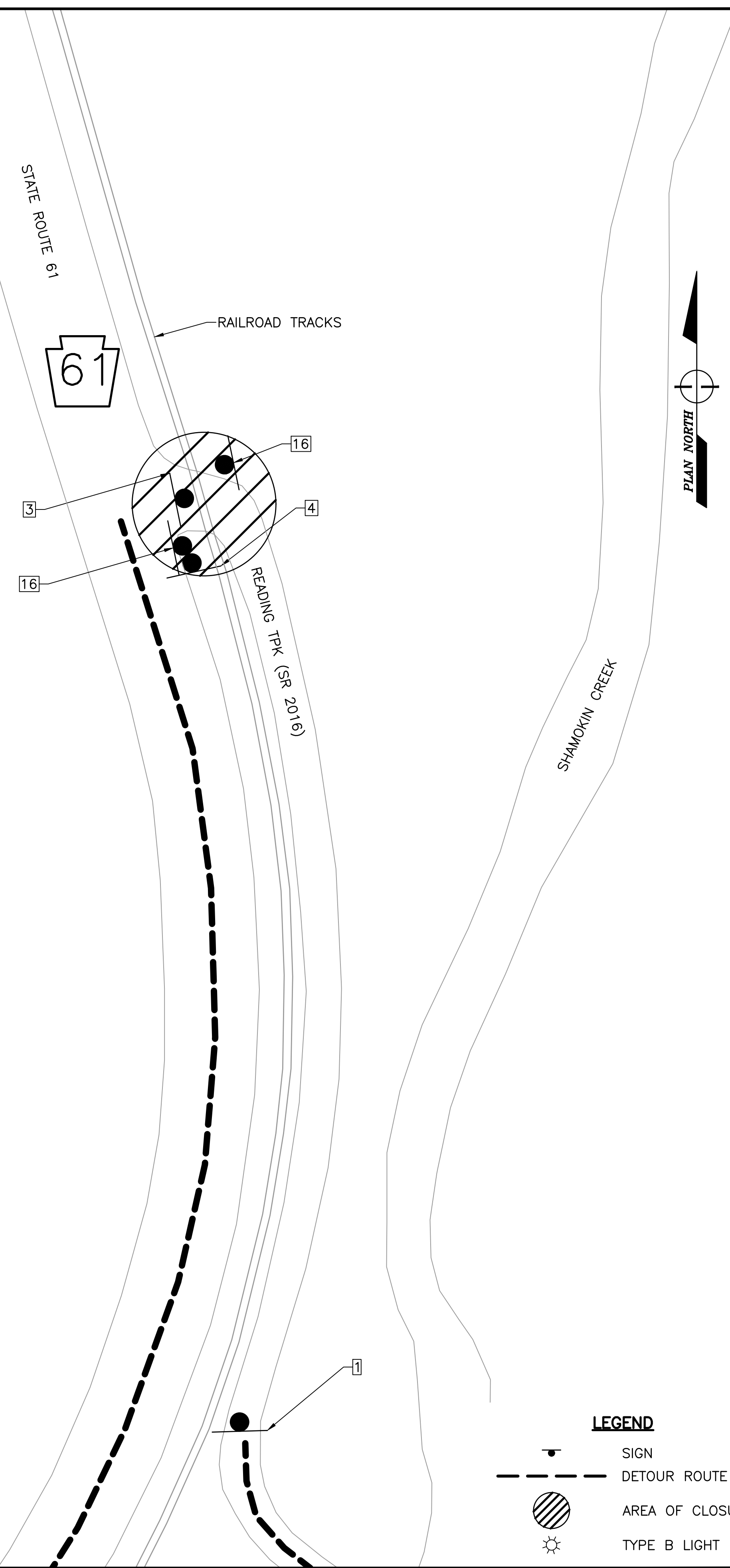
THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE
"READING TPK"

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

R	E	A	D	I	N	G	T	P	K											
2.6	2.2	0.8	2.0	0.5	2.5	0.7	2.2	0.8	0.6	0.8	2.2	0.8	2.2	0.7	2.0	0.7	2.2	0.8	2.2	2.6
LETTERS = 18.1																				
SPACES = 11.8																				
TOTAL = 29.9																				



SEDA COG JOINT RAIL AUTHORITY

SHAMOKIN VALLEY RAILROAD SR 4005 (MAIN STREET) GRADE CROSSING REPLACEMENT PROJECT

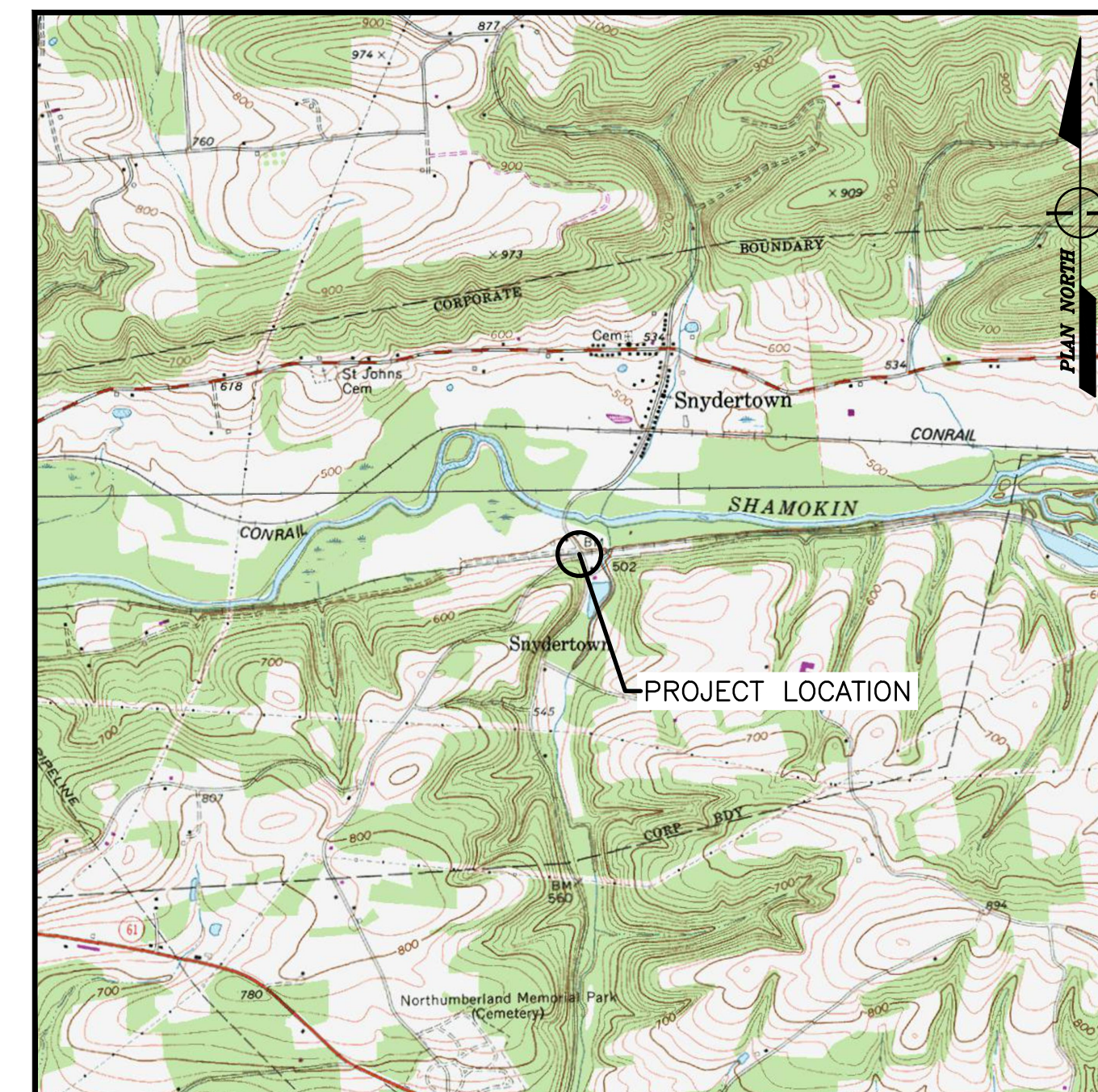
SNYDERTOWN BOROUGH, NORTHUMBERLAND COUNTY, PENNSYLVANIA

CONTRACT NO. 2023-02

CONTRACT DRAWINGS

AUGUST 2023

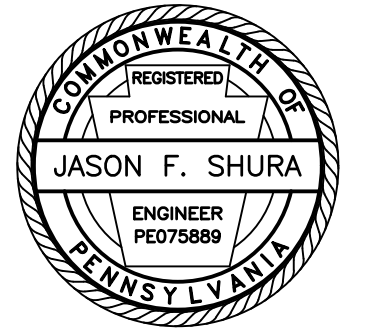
INDEX OF SHEETS	
DRAWING	DESCRIPTION
T1	TITLE SHEET
G1	GENERAL NOTES
C1	SITE PLAN
C2	PROFILES
C3	TYPICAL SECTIONS
TC1	DETOUR PLAN
TC2	DETOUR PLAN



RIVERSIDE AND TREVORTON, PENNSYLVANIA, USGS TOPO QUADS
LOCATION MAP
 SCALE: 1" = 2000'



1731 N. Juniata Street
 Hollidaysburg, PA 16648
 Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Revisions:

No.	Date	Description
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Sheet Title:

TITLE SHEET

PROJECT NO.	19-0001.182
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

T1

GENERAL CONSTRUCTION NOTES:

SLANT LETTERING DENOTES EXISTING FEATURES OR FACILITIES.

VERTICAL LETTERING DENOTES PROPOSED FEATURES OR FACILITIES.

VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD88 DATUM.

HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON PENNSYLVANIA STATE COORDINATE SYSTEM, NORTH ZONE.

ALL ROADWAY CURVE DATA IS BASED ON ARC DEFINITION UNLESS OTHERWISE INDICATED.

ALL TRACK CURVE DATA IS BASED ON CHORD DEFINITION UNLESS OTHERWISE INDICATED.

CONTRACTOR TO PERFORM CONSTRUCTION STAKEOUT AND CONFIRM ALL ELEVATIONS AND SLOPES PRIOR TO CONSTRUCTION. ALL DISCREPANCIES SHALL IMMEDIATELY BE REPORTED TO THE ENGINEER.

SIGNALS AND ELECTRICAL VAULT ARE TO BE REPLACED BY OTHERS. THE PROPOSED LOCATION OF SIGNALS AND ELECTRICAL VAULT SHOWN ON THIS PLAN ARE APPROXIMATE.

THE CONTOURS SHOWN HEREON ARE BASED ON FIELD LOCATED SURVEY POINTS. CONTOURS ARE MERELY AN INTERPOLATION OF THE FIELD SURVEY POINTS. IF ANY DISCREPANCY BETWEEN CONTOUR DATA AND FIELD SURVEY POINTS IS ENCOUNTERED, THE SURVEY POINTS SHALL GOVERN. THE CONTOURS SHALL BE VERIFIED IN RELATION TO THE SURVEY POINTS PROVIDED HEREWITH BY THE END USER OF THIS DIGITAL FILE PRIOR TO PREPARING A DIGITAL ELEVATION MODEL IN ANY SOFTWARE PACKAGE. IF DISCREPANCY IS FOUND, THE ENGINEER SHALL BE NOTIFIED.

PROPERTY LINES AND RIGHT-OF-WAY LINES ARE SHOWN FOR INFORMATION ONLY AND DO NOT CONSTITUTE ACTUAL FIELD SURVEYS.

ALL CODES AND STANDARDS REFERENCED IN THESE GENERAL NOTES, INCLUDING ALL SPECIFICATIONS REFERENCED WITHIN, AND ALL FEDERAL, STATE AND LOCAL REGULATIONS APPLY TO THE DESIGN, CONSTRUCTION, DEMOLITION, QUALITY CONTROL AND SAFETY OF ALL WORK PERFORMED ON THE PROJECT. USE THE LATEST EDITIONS OF THE CODES AND STANDARDS UNLESS NOTED OTHERWISE.

JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE RESPONSIBILITY OF THE CONTRACTOR.

SUB-BALLAST SHALL CONSIST OF AASHTO NO. 2A COURSE AGGREGATE, PLACED IN LIFTS NOT TO EXCEED 3 INCHES IN THICKNESS AND COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY WEIGHT DENSITY AS DEFINED BY THE MODIFIED PROCTOR TEST (ASTM D-1557).

BALLAST SHALL CONFORM TO GRADATION SIZE 3 AS RECOMMENDED IN AREMA, CHAPTER 1, PART 2, TABLE NO. 2, RECOMMENDED BALLAST GRADATIONS.

ALL SURFACES SHALL BE RESTORED TO PRE-CONSTRUCTION OR BETTER CONDITION.

THREE WORKING DAYS PRIOR TO EXCAVATION, THE CONTRACTOR SHALL CONTACT PA ONE CALL SYSTEM, INC. PHONE: 1-800-242-1776 PA ONE CALL SERIAL NUMBER: 20230622104 FOR SNYDERTOWN BOROUGH, NORTHUMBERLAND COUNTY

THE CONTRACTOR SHALL EXERCISE CAUTION AND EMPLOY CAREFUL EXCAVATION METHODS DURING INSTALLATION OF THE FACILITIES TO AVOID DAMAGE TO OR CONFLICT WITH EXISTING UTILITIES. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATIONS AS NECESSARY AND/OR REQUIRED BY THE ENGINEER TO ASCERTAIN THE HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION IN AFFECTED AREAS AND MAKE THE APPROPRIATE ADJUSTMENTS IN THE FIELD IF CONFLICTS OCCUR.

DESIGN IS BASED ON AVAILABLE INFORMATION PERTAINING TO UNDERGROUND UTILITIES AND FIELD LOCATION WHERE POSSIBLE. SHOULD THE CONTRACTOR ENCOUNTER A SITUATION WHERE IT IS BELIEVED THAT AN EXISTING UNDERGROUND UTILITY WILL NEED TO BE RELOCATED BY THE CONTRACTOR, HE SHALL NOTIFY THE ENGINEER AND A DECISION WILL BE MADE WITHIN TWO (2) WORKING DAYS.

DESIGNERS AND CONTRACTORS UTILIZING THESE DRAWINGS AND THE INFORMATION CONTAINED THEREON ARE CAUTIONED TO COMPLY WITH THE REQUIREMENTS OF LOCAL AND STATE REGULATIONS FOR UNDERGROUND UTILITY LINE PROTECTION.

SCOPE OF WORK:

REPLACE THE EXISTING RAILROAD GRADE CROSSING, RE-GRADE THE APPROACH TRACK, AND REPLACE PAVEMENT ON BOTH APPROACHES AS SHOWN ON THESE PLANS. SIGNAL MASTS AND ELECTRICAL HOUSE ARE TO BE REPLACED BY OTHERS.

RAILROAD TRAFFIC:

CONSTRUCTION OF THE NEW GRADE CROSSING AND APPROACH TRACK WORK WILL TAKE PLACE DURING A SINGLE FOUR DAY TRACK OUTAGE. THE OUTAGE WILL BEGIN AT 8 AM ON A THURSDAY AND END AT 8 AM ON THE FOLLOWING MONDAY. DURING THIS TIME, THE RAIL WILL BE OUT OF SERVICE AND THEREFORE, THERE IS NO ANTICIPATED RAIL TRAFFIC DURING THESE OPERATIONS. PAVING ACTIVITIES ON BOTH APPROACHES WILL BE CONDUCTED AROUND SCHEDULED TRAIN TIMES AND ANTICIPATED TRAINS TRAFFIC IS 2 TRAINS PER DAY, MONDAY THROUGH FRIDAY, UNDER A 10 MPH SPEED LIMIT.

FULL TIME FLAGGING OPERATIONS OR INSTALLATION OF DERAILS WILL BE REQUIRED TO PROVIDE ADEQUATE PROTECTION TO ALL WORKERS DURING CONSTRUCTION. FLAGGING AND INSTALLATION/REMOVAL OF DERAILS WILL BE PROVIDED BY SHAMOKIN VALLEY RAILROAD AT NO COST TO THE CONTRACTOR. (THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING RAILROAD FLAGGING AND INSTALLATION/REMOVAL OF DERAILS.) .

SPECIFICATIONS:

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS, PENNDOT PUBLICATION 408/2020 INCLUDING REVISION NO. 6, AND AREMA MANUAL FOR RAILWAY ENGINEERING, 2018.

DESIGN OF REINFORCED CONCRETE COMPONENTS IS IN ACCORDANCE WITH AREMA CHAPTER 8, CONCRETE STRUCTURES AND FOUNDATIONS AND THE LOAD FACTOR DESIGN (LFD) METHOD.

GENERAL:

ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.

IN CASE OF CONFLICT BETWEEN THE GENERAL NOTES, SPECIFICATIONS, AND DETAILS, THE MOST RIGID REQUIREMENTS SHALL GOVERN.

METHODS, PROCEDURES AND THE SEQUENCES (OTHER THAN THAT NOTED ON THE DRAWINGS) OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

ALL COSTS OF INVESTIGATION AND/OR REDESIGN DUE TO CONTRACTOR'S IMPROPER INSTALLATION OF TRACK ELEMENTS OR OTHER ITEMS NOT IN CONFORMANCE WITH THE CONTRACT DOCUMENTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

THE DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS. IF THERE IS A DISCREPANCY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER PRIOR TO PERFORMING THE WORK.

THE CONTRACTOR SHALL VERIFY ALL EXISTING INFORMATION SHOWN (DIMENSIONS, ELEVATIONS, ETC.) AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO FABRICATION.

SUBMIT SHOP DRAWINGS AT LEAST 15 DAYS BEFORE REVIEWED SUBMITTALS WILL BE NEEDED. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR'S STAMP OF APPROVAL WHICH SHALL CONSTITUTE CERTIFICATION THAT THE CONTRACTOR HAS VERIFIED ALL CONSTRUCTION CRITERIA, MATERIALS, AND SIMILAR DATA AND HAS CHECKED EACH DRAWING FOR COMPLETENESS, COORDINATION, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURES SUPPLIED IN THE DESIGN DRAWINGS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD.

REPRODUCTION OF STRUCTURAL CONTRACT PLANS FOR SUBMITTALS AS SHOP DRAWINGS IS PROHIBITED. SHOP DRAWINGS PRODUCED IN SUCH A MANNER WILL BE REJECTED AND RETURNED.

SHOP DRAWINGS SUBMITTED FOR REVIEW SHALL BE ELECTRONIC SUBMITTALS IN PDF FORMAT.

WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES, SHALL BE REPEATED AT NO ADDITIONAL COST.

CONCRETE:

STRUCTURAL CAST-IN-PLACE AND PRECAST REINFORCED CONCRETE SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE FOLLOWING CODES:

AREMA 2018 CHAPTER 8, CONCRETE STRUCTURES AND FOUNDATIONS

AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION, 2002

"BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE," AMERICAN CONCRETE INSTITUTE.

"PRECAST AND PRESTRESSED CONCRETE DESIGN HANDBOOK," PRECAST CONCRETE INSTITUTE

INSERTS AND SLEEVES SHALL BE CAST IN PLACE.

USE FLOWABLE FILL TYPE C FOR SUBGRADE PREPARATION AS SHOWN ON THE DRAWINGS.

PROVIDE GRADE 60 REINFORCEMENT STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615 OR A706. DO NOT WELD GRADE 60 REINFORCEMENT STEEL BARS UNLESS SPECIFIED. DO NOT USE RAIL STEEL A996 REINFORCEMENT BARS.

CONCRETE EXPOSED TO FREEZE/THAW CONDITIONS AND/OR WEATHER (INCLUDING EXTERIOR FOOTINGS) SHALL HAVE 4%-6% AIR-ENTRAINMENT IN ACCORDANCE WITH ACI.

PRECAST CONCRETE:

USE CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 5,000 PSI FOR ALL PRECAST CONCRETE COMPONENTS, OR AS SPECIFIED BY PANEL MANUFACTURER.

THE PRECAST MANUFACTURER SHALL SUBMIT SHOP DRAWINGS FOR ALL PRECAST COMPONENTS.

THE PRECAST MANUFACTURER SHALL DESIGN, PROVIDE AND INSTALL ALL HANGERS, INSERTS, ATTACHMENTS AND APPURTENANCES AS REQUIRED.

FORM STRIPPING, HANDLING, AND TRANSPORTATION METHODS SHALL NOT CRACK PRECAST MEMBERS.

SUMMARY OF PROJECT COORDINATES

BASED ON THE STATE PLANE COORDINATE SYSTEM (PA NORTH ZONE - NAD83)

RTE	STATION	POINT	COORDINATES		BEARING
			NORTHING	EASTING	
SR 4005 (MAIN STREET) CONSTRUCTION ☒	10+00.00	POT	259097.9910	2266938.2900	N30°11'44" W
	11+54.06	PT	259231.1080	2266860.8290	N33°17'26" W
	12+26.62	POT	259291.7670	2266820.9970	
SVRR TRACK ☒	372+76.72	POT	259140.5290	2266691.0700	N83°14'37" E
	377+00.00	POT	259190.3280	2267111.4100	



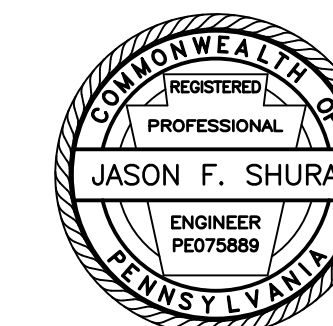
PUBLIC UTILITY ACT 38 COMPLIANCE AREA COVERED BY ONE CALL

SERIAL NUMBER: 20230622104

USER	STATEMENT
AT&T 1100 3RD AVE ALTOONA, PA 16602 PAT SUTTON PS4364@ATT.COM	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.
PPL ELECTRIC UTILITIES CORPORATION 437 BLUE CHURCH RD PAXIONOS, PA 17860 DOUG HAUPT DLHAUPT@PPLWEB.COM	ENGINEERING COMPLETED. A PDF FILE OR MARKED UP PLANS WERE SENT TO THE REQUESTOR.
SNYDERTOWN BOROUGH 61 S MAIN ST SUNBURY, PA 17801 KEVIN GEORGE KG31169@GMAIL.COM	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.
SERVICE ELECTRIC CABLEVISION 6332 POINT TOWNSHIP RD NORTHUMBERLAND, PA 17857 DON PHILLIPS DON.PHILLIPS@SECV.COM	CLEAR. NO FACILITIES OR FACILITIES NOT INVOLVED BASE ON TICKET INFORMATION.
1. PURSUANT TO THE PROVISIONS OF PENNSYLVANIA ACT 287 OF 1974 AS AMENDED BY ACT 50 OF 2017, PENNSYLVANIA LEGISLATURE, STIFFLER, MCGRAW & ASSOCIATES, INC. HAS INSPECTED OR OBTAINED A LIST OF USERS, AS PRESCRIBED BY SECTION 3 OF SAID ACT WITHIN THE POLITICAL SUBDIVISIONS INVOLVED IN THIS PROJECT. INFORMATION ON THE POSITION AND TYPE OF EACH UNDERGROUND LINE WAS REQUESTED NOT LESS THAN TEN (10), NOR MORE THAN NINETY (90), DAYS PRIOR TO THE COMPLETION OF FINAL DESIGN. EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE BASED ON THE INFORMATION PROVIDED BY THE USERS.	
2. STIFFLER, MCGRAW & ASSOCIATES INC. DO NOT GUARANTEE THE PRESENCE, LOCATION, OR DEPTH OF ANY PUBLIC OR PRIVATE UNDERGROUND UTILITY OR STRUCTURE WHICH MAY OR MAY NOT BE SHOWN ON THESE PLANS.	
3. PENNSYLVANIA ONE CALL SYSTEM, INC. (1-800-242-1776) SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 3 BUSINESS DAYS BUT NOT MORE THAN 10 BUSINESS DAYS PRIOR TO ACTUAL EXCAVATION START FOR VERIFICATION AND MARKOUT OF EXISTING UTILITIES.	
4. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF PUBLIC UTILITY ACT NO. 181 OF DECEMBER 18, 2006.	



1731 N. Juniata Street
Hollidaysburg, PA 16648
Phone: 814.696.6280 Fax: 814.696.6240



Stiffler, McGraw & Associates, Inc.

Owner:
SEDA COG JOINT RAIL
AUTHORITY
201 FURNACE ROAD
LEWISBURG, PA 17837

Project Name:
SHAMOKIN VALLEY RAILROAD
SR 4005 (MAIN STREET) GRADE
CROSSING REPLACEMENT
PROJECT

2023-02

SNYDERTOWN BOROUGH
NORTHUMBERLAND COUNTY

CONTRACT DRAWINGS

Revisions:

No.	Date	Description
△		

Sheet Title:

GENERAL NOTES

PROJECT NO.	19-0001.182
DRAWN BY:	JDD
DESIGNED BY:	JES
CHECKED BY:	JES
SCALE:	AS SHOWN

Drawing:

G1



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2023-02

SNYDERTOWN BOROUGH
NORTHUMBERLAND COUNTY

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No.	Date	Description
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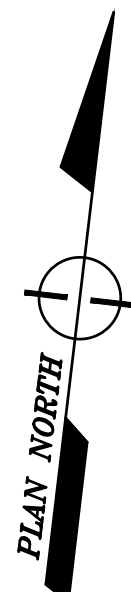
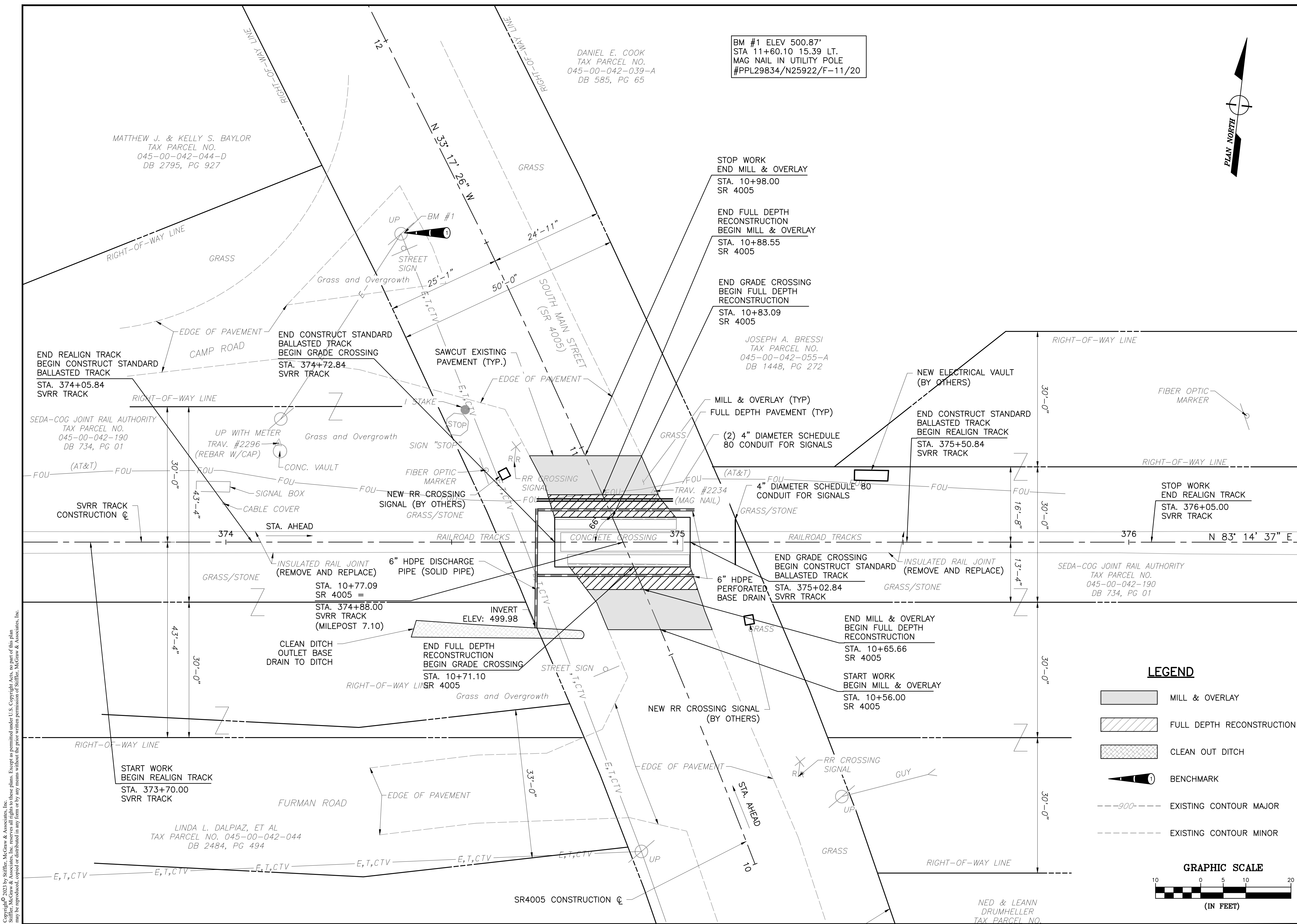
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SITE PLAN

PROJECT NO.	19-0001.182
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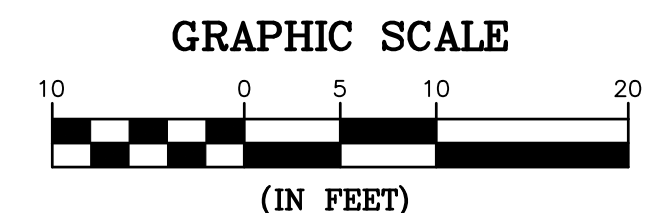
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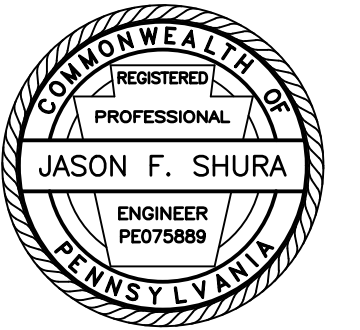


LEGEND

- MILL & OVERLAY
- FULL DEPTH RECONSTRUCTION
- CLEAN OUT DITCH
- BENCHMARK
- EXISTING CONTOUR MAJOR
- EXISTING CONTOUR MINOR



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PROFILES

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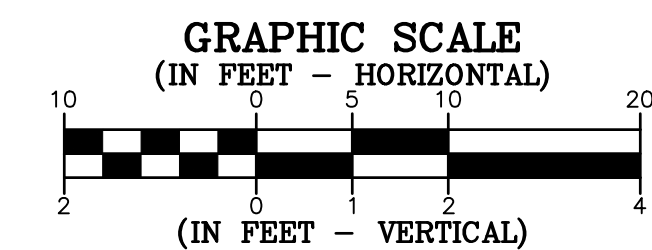
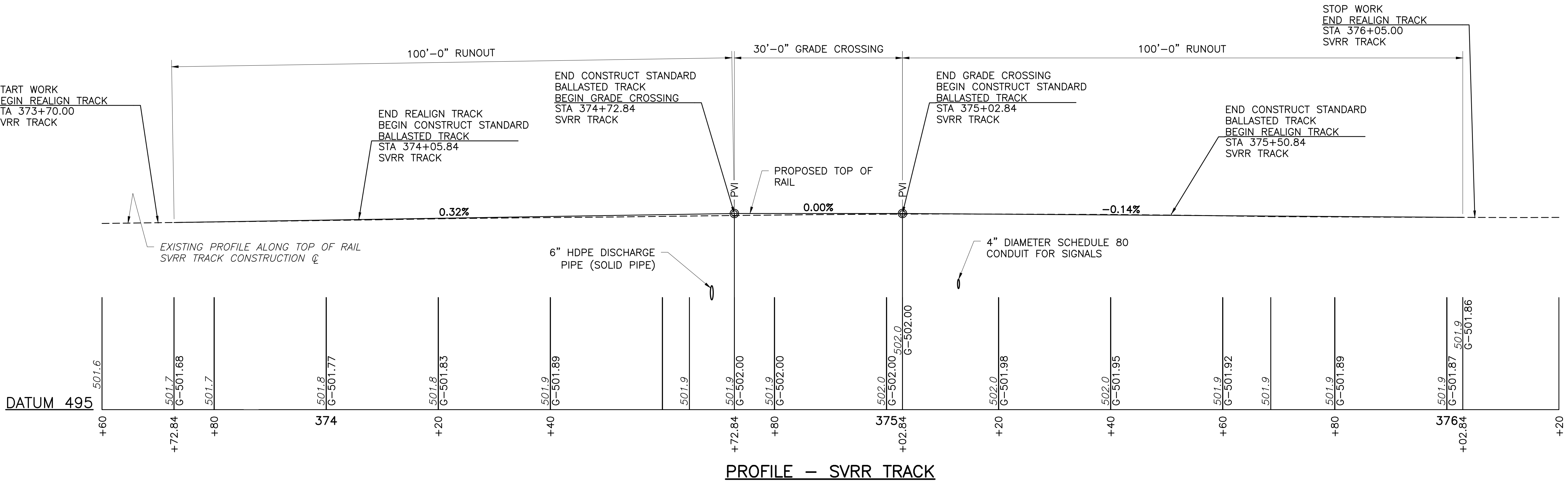
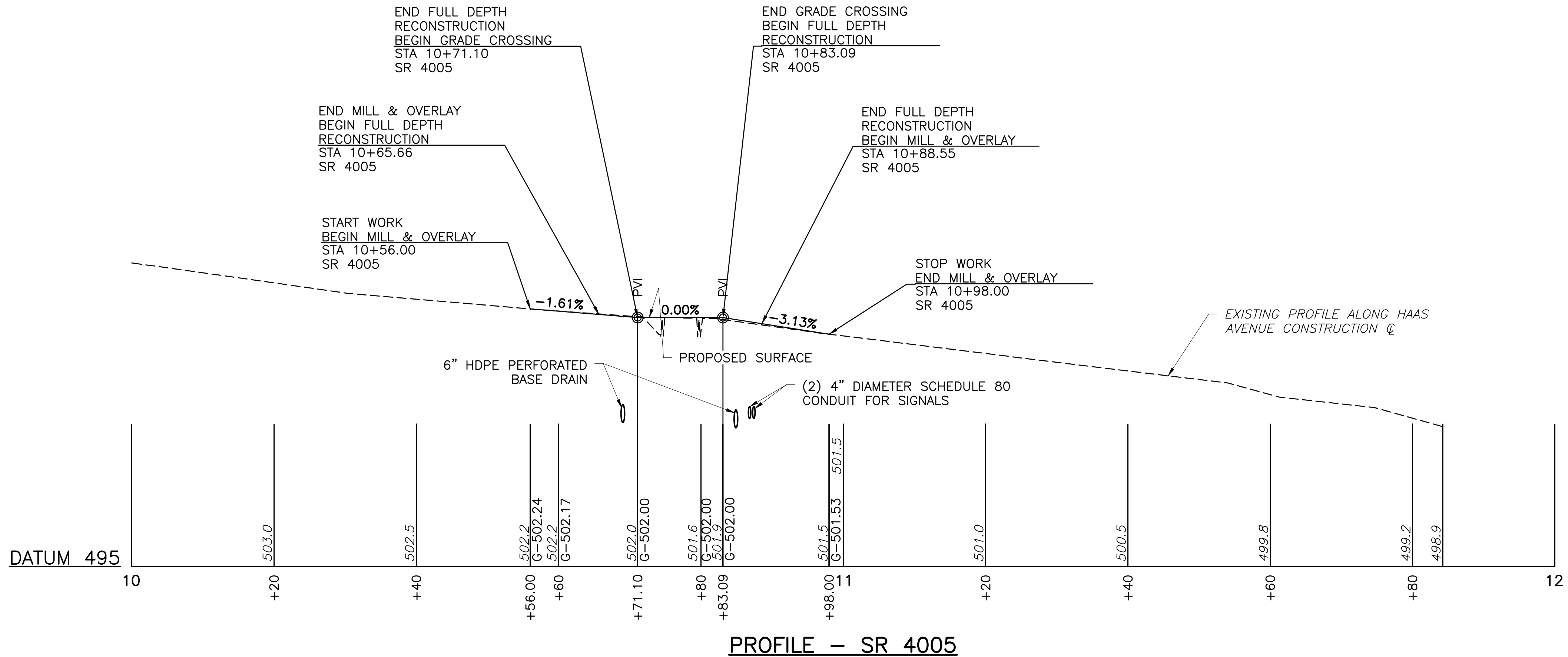
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CHECKED BY: JES

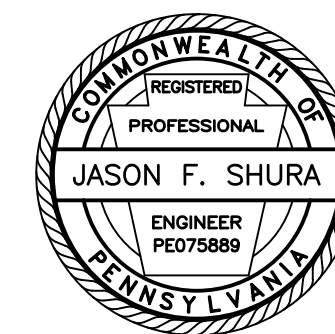
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TYPICAL SECTIONS

PROJECT NO. 19-0001.182

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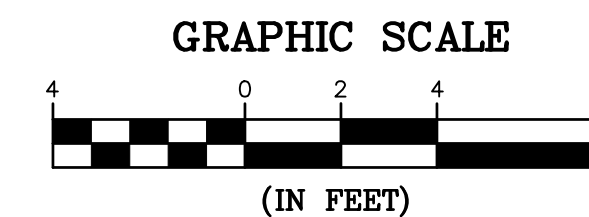
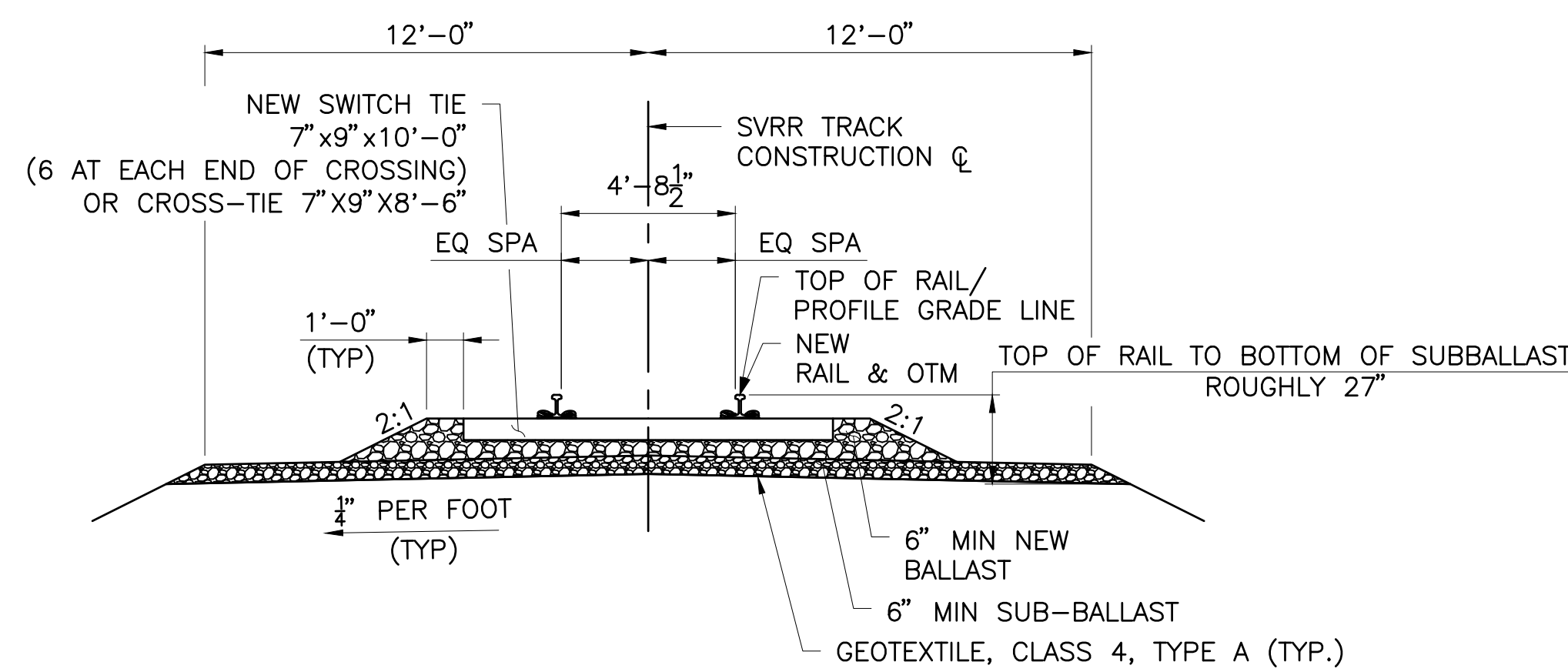
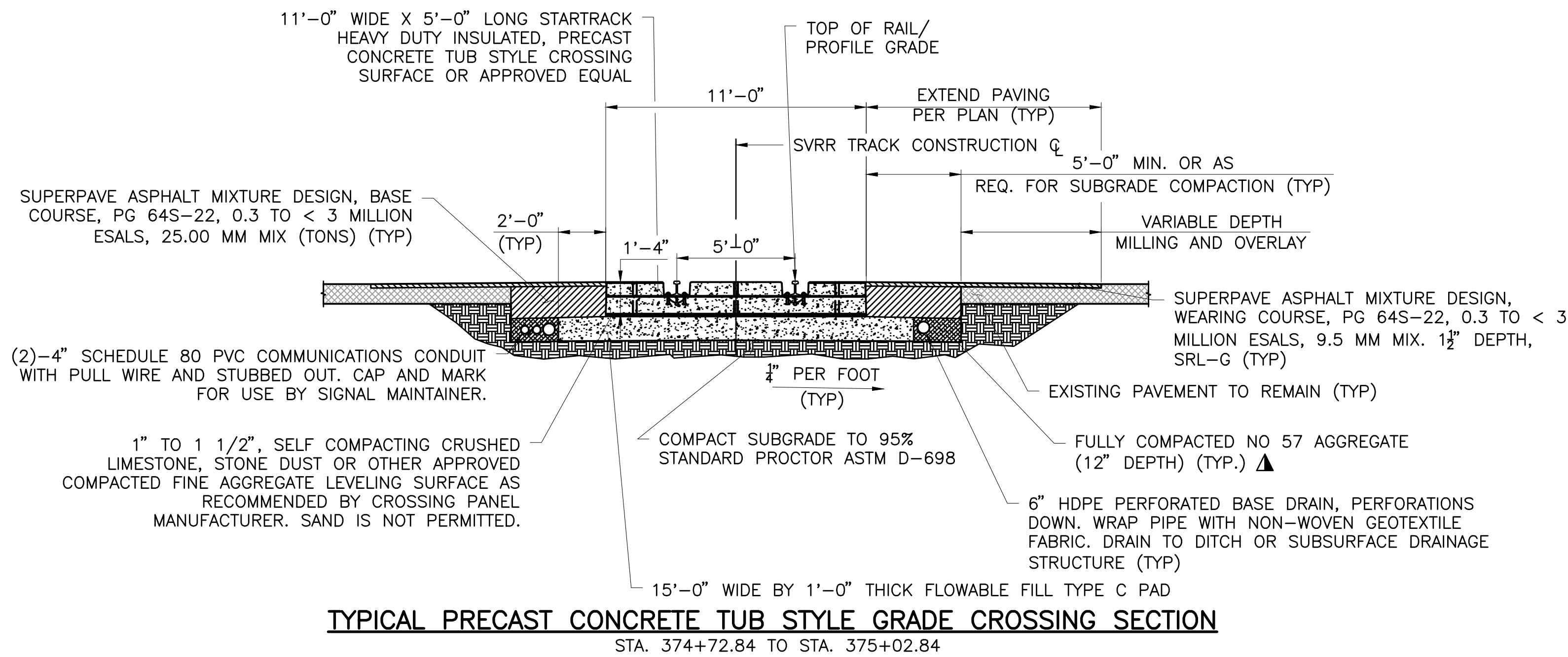
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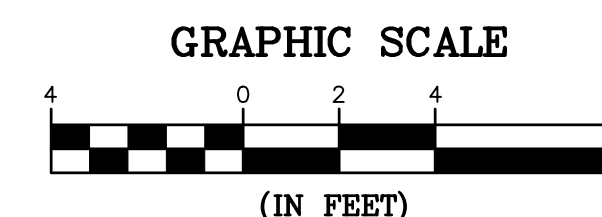
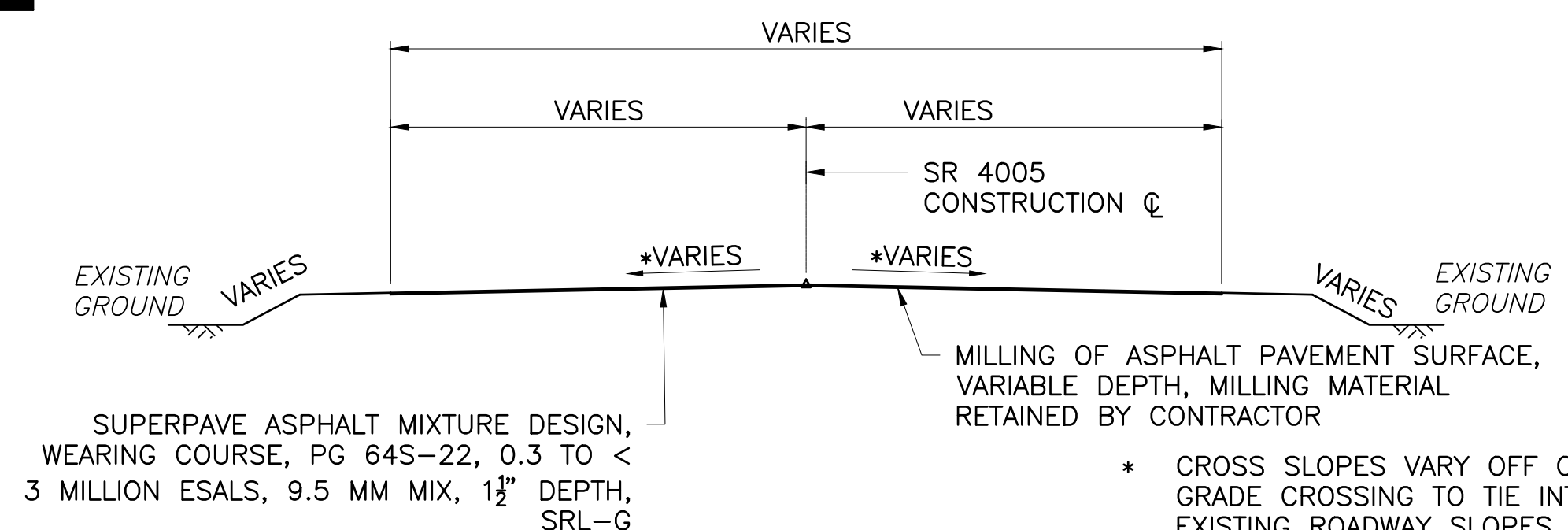
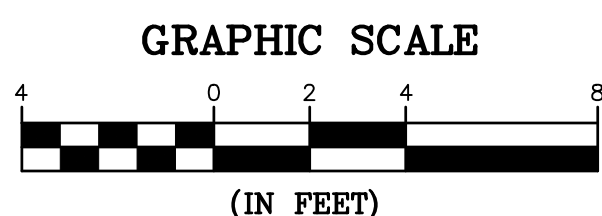
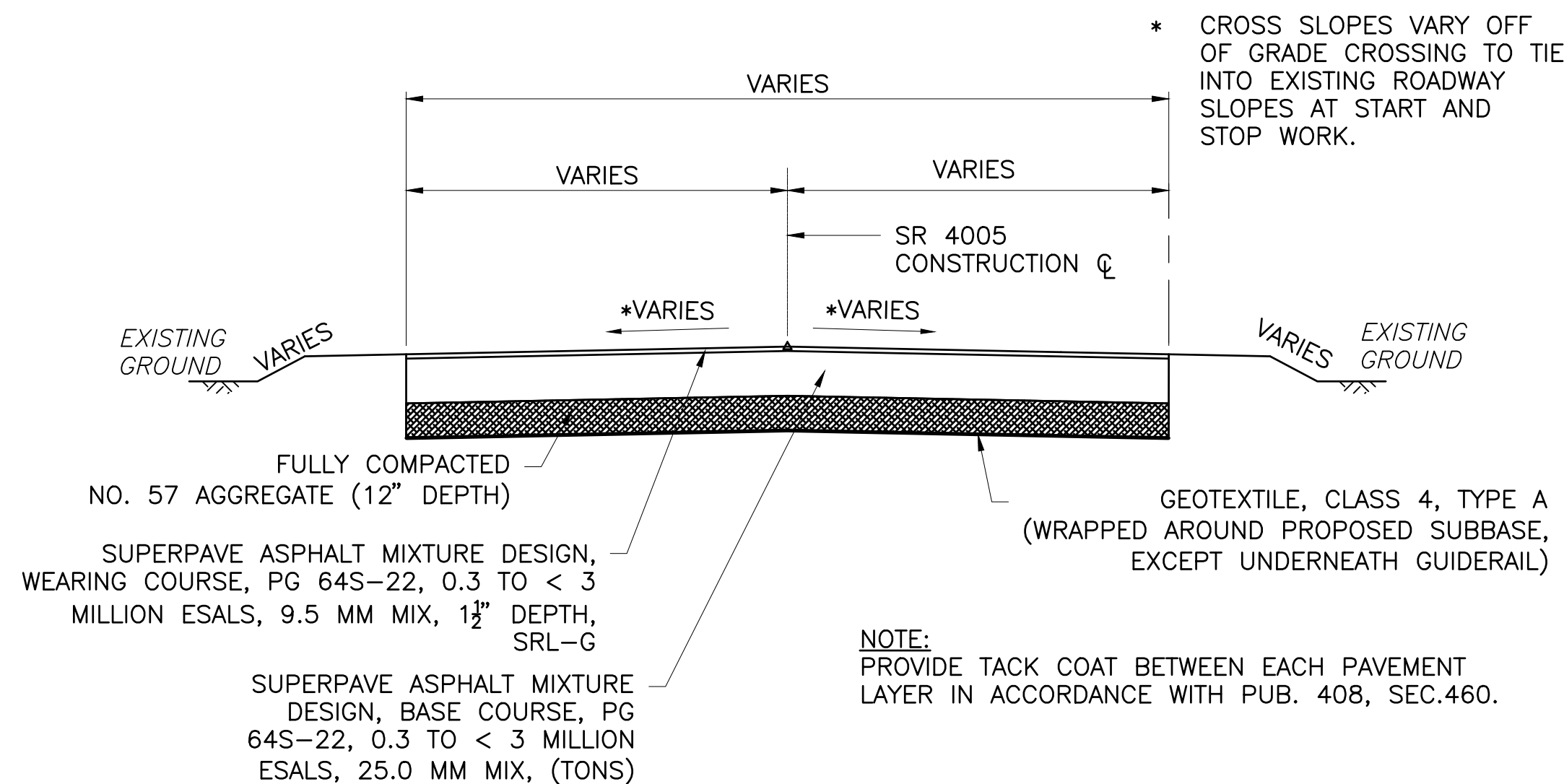
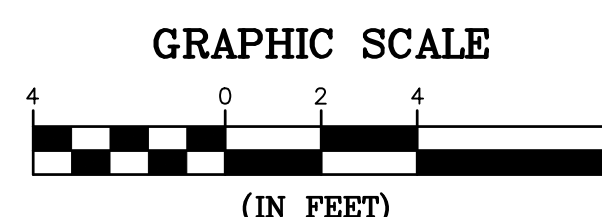
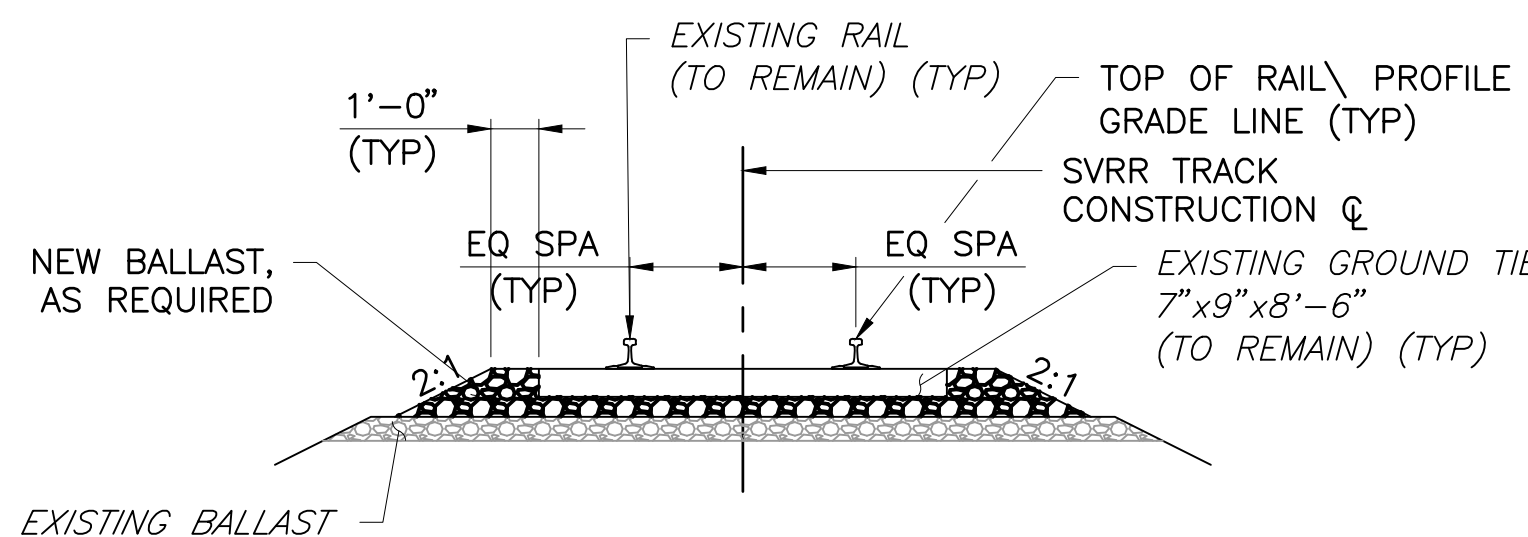
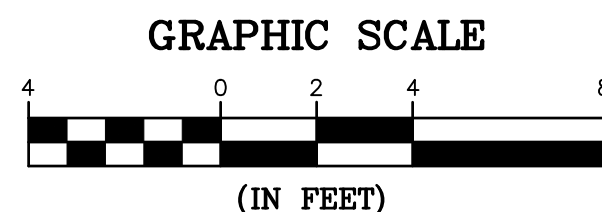
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▲ WRAPPED W/ GEOTEXTILE CLASS 4, TYPE A (TYP.)

NOTES:
1. FLOWABLE FILL PAD SHALL EXTEND AT LEAST 1'-0" LONGITUDINALLY BEYOND END OF CROSSING PANELS IN EACH DIRECTION. LIMIT EXTENSION OF PAD SO AS NOT TO ENCRoACH ON ADJACENT APPROACHING STANDARD TIE AND BALLASTED TRACK STRUCTURE.





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NORTHUMBERLAND COUNTY

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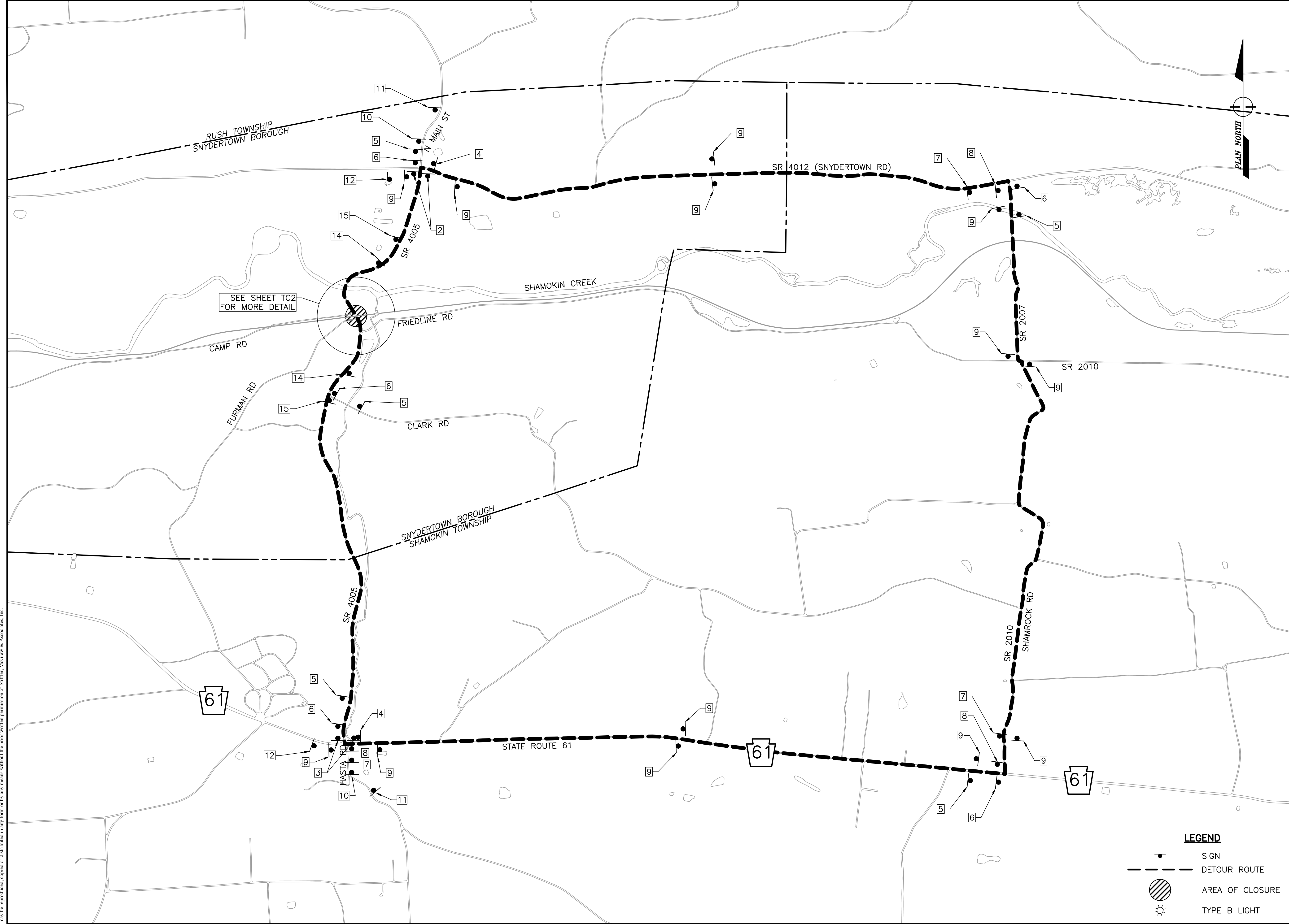
Sheet Title:

DETOUR PLAN

PROJECT NO.	19-0001.182
DRAWN BY:	AMG
DESIGNED BY:	JES
CHECKED BY:	CEB
SCALE:	AS SHOWN

Drawing:

TC1

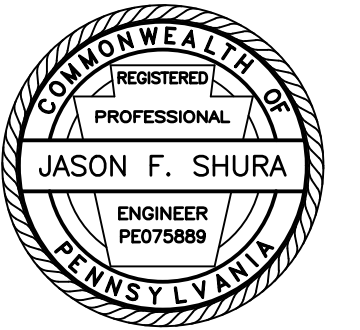


LEGEND

- SIGN
- DETOUR ROUTE
- AREA OF CLOSURE
- TYPE B LIGHT

SEE SHEET TC2
FOR MORE DETAIL

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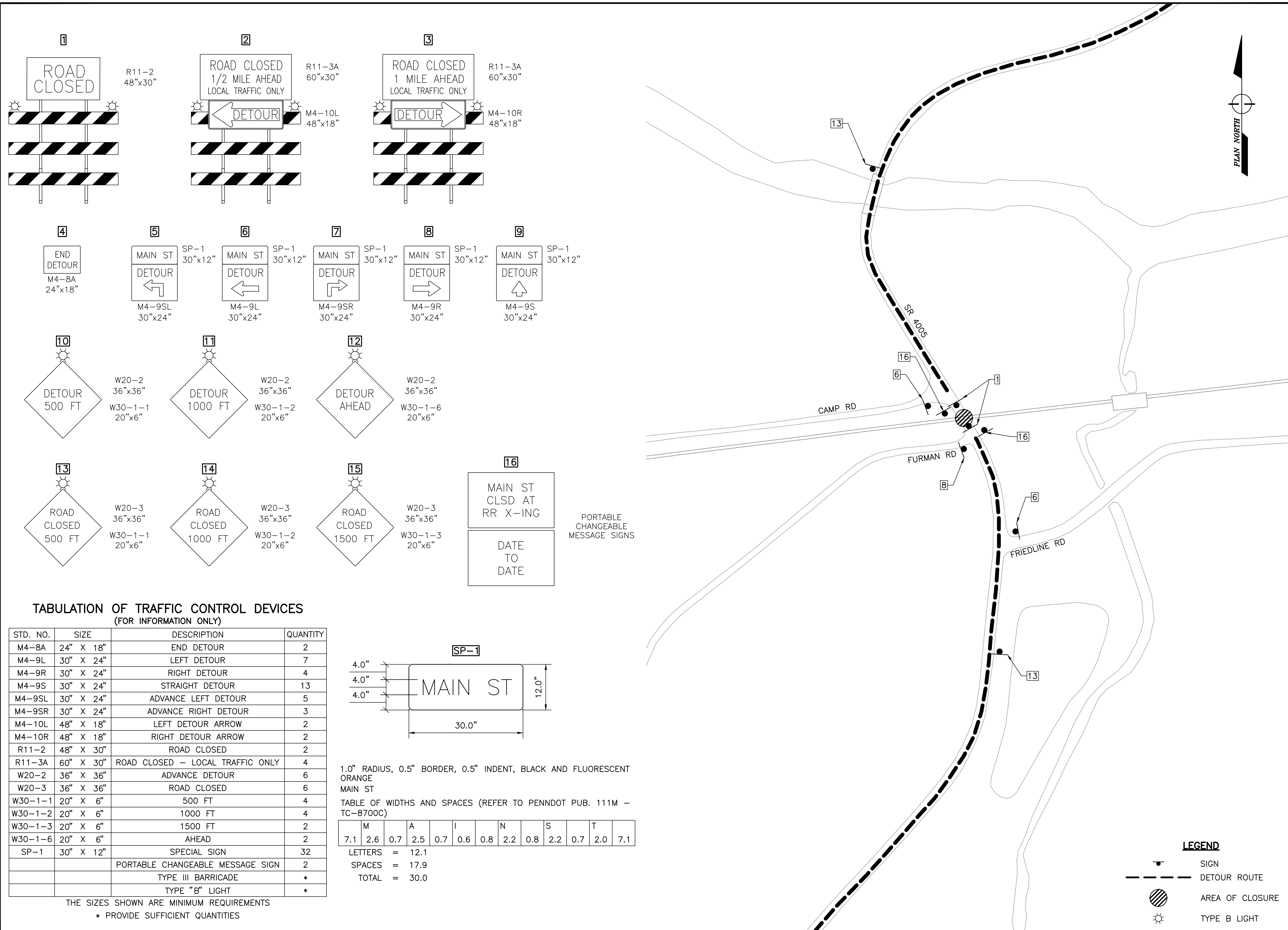
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DETOUR PLAN

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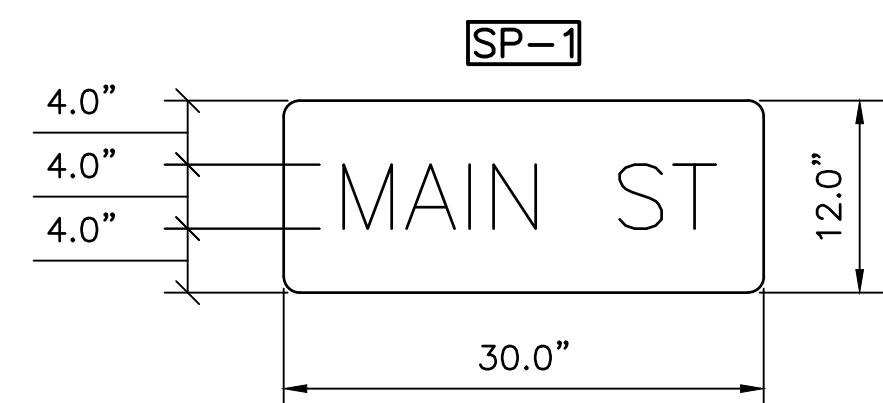
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TC2



**TABULATION OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

STD. NO.	SIZE	DESCRIPTION	QUANTITY
M4-8A	24" X 18"	END DETOUR	2
M4-9L	30" X 24"	LEFT DETOUR	7
M4-9R	30" X 24"	RIGHT DETOUR	4
M4-9S	30" X 24"	STRAIGHT DETOUR	13
M4-9SL	30" X 24"	ADVANCE LEFT DETOUR	5
M4-9SR	30" X 24"	ADVANCE RIGHT DETOUR	3
M4-10L	48" X 18"	LEFT DETOUR ARROW	2
M4-10R	48" X 18"	RIGHT DETOUR ARROW	2
M4-10	48" X 30"	ROAD CLOSED	2
R11-3A	60" X 30"	ROAD CLOSED - LOCAL TRAFFIC ONLY	4
W20-2	36" X 36"	ADVANCE DETOUR	6
W20-3	36" X 36"	ROAD CLOSED	6
W30-1-1	20" X 6"	500 FT	4
W30-1-2	20" X 6"	1000 FT	4
W30-1-3	20" X 6"	1500 FT	2
W30-1-6	20" X 6"	AHEAD	2
SP-1	30" X 12"	SPECIAL SIGN	32
		PORTABLE CHANGEABLE MESSAGE SIGN	2
		TYPE III BARRICADE	*
		TYPE "B" LIGHT	*



1.0" RADIUS, 0.5" BORDER, 0.5" INDENT, BLACK AND FLUORESCENT ORANGE MAIN ST

TABLE OF WIDTHS AND SPACES (REFER TO PENNDOT PUB. 111M - TC-8700C)

	M	A	I	N	S	T							
LETTERS	7.1	2.6	0.7	2.5	0.7	0.6	0.8	2.2	0.8	2.2	0.7	2.0	7.1
SPACES													
TOTAL													30.0

THE SIZES SHOWN ARE MINIMUM REQUIREMENTS
* PROVIDE SUFFICIENT QUANTITIES

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