

COMMONWEALTH OF PENNSYLVANIA



PENNSYLVANIA TURNPIKE COMMISSION

DRAWINGS FOR

CONTRACT NO. M-052.50X002-3-03
FOR CONSTRUCTION
OF THE
MON/FAYETTE EXPRESSWAY

SR 0043, SECTION 53B1A
BETWEEN MP M-55.40 AND MP M-58.06
IN
ALLEGHENY COUNTY

DESIGN DESIGNATION

SR 0043
SECTION 53B1A

HIGHWAY CLASSIFICATION	- URBAN LIMITED ACCESS FREEWAY
DESIGN SPEED	- 60 MPH
PAVEMENT WIDTH	- 2-12' LANES (EACH DIRECTION) 26' PAVEMENT
MEDIAN WIDTH	- 26'-0"
SHOULDER WIDTH INSIDE	- 12'-0" PAVED
SHOULDER WIDTH OUTSIDE	- 12'-0" EFFECTIVE (10'-0" PAVED)
CURRENT ADT	- 14,300 (2025) NB - 16,300 (2025) SB
DESIGN YEAR ADT	- 24,000 (2045) NB - 26,700 (2045) SB
DHV	- 1,945 NB - 2,210 SB
D	- 53%
T	- 9.5%

CERTIFIED CORRECT PLANS
James Daniel Morris
Professional Engineer
Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
ATTEST *Mottley L. Hines*
Secretary

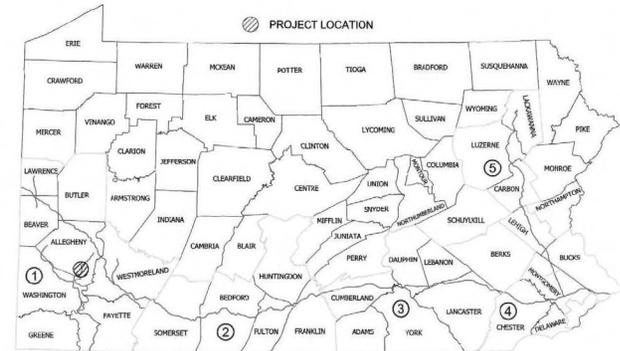
WBS NO. M-052.50X002-3-03
NETWORK NUMBER: 7008401
FILE NAME: 1001RDIL.dgn
DRAWING TYPE: 1A
STRUCTURE NUMBER:



PREPARED BY: PENNONI FOSTER PLAZA 6 681 ANDERSEN DRIVE, SUITE 305 PITTSBURGH, PA 15220 <i>Todd M. Morris</i> 9/30/2025 DATE
--

CHIEF ENGINEER PENNSYLVANIA TURNPIKE COMMISSION

APPROVED:	DATE
CHIEF ENGINEER, PENNSYLVANIA TURNPIKE COMMISSION	
RECOMMENDED:	DATE
SECRETARY TREASURER, PENNSYLVANIA TURNPIKE COMMISSION	
COMMISSION APPROVAL	



DISTRICT	COUNTY	TOWNSHIP / BOROUGH	SECTION	SHEETS
1	ALLEGHENY	WEST MIFFLIN BOROUGH	53B1A	503
	ALLEGHENY	DRAVOSBURG BOROUGH	53B1A	

SR 0043

ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STATION 1893+15.00 TO STATION 1929+93.13 STATE ROUTE 0043, SECTION 53B1A APPROVED BY PENNSYLVANIA TURNPIKE COMMISSION ON , 202

ESTABLISHED AS A LIMITED ACCESS HIGHWAY FROM STA 1775+86.00 TO STA 1893+15.00 BY PLAN OF STATE ROUTE 0043, SECTION 53A2 R/W APPROVED BY PENNSYLVANIA TURNPIKE COMMISSION ON , 202

SR 2045 PITTSBURGH-McKEESPORT BLVD/CR 5103 RICHLAND AVE
SECTION A11

HIGHWAY CLASSIFICATION	- URBAN PRINCIPAL ARTERIAL
DESIGN SPEED	- 40 MPH
PAVEMENT WIDTH	- 3 TO 4 -12' LANES 36'-48' PAVEMENT
MEDIAN WIDTH	- N/A
SHOULDER WIDTH	- 2'-0" CURB/GUTTER LT (MIN) - 8' LT/RT
CURRENT ADT	- 9,600 (2025) NB - 11,500 (2025) SB
DESIGN YEAR ADT	- 12,400 (2045) NB - 15,100 (2045) SB
DHV	- 1,525 NB - 1,215 SB
D	- 55%
T	- 4.1% (NB/SB AVG.)

PEOPLES NATURAL GAS COMPANY
 SR 0043
 STA 1906+70 TO 1925+25 LT/RT
 UNDERGROUND 12" GAS LINE (RELOCATED)
 WITH 8" PE GAS LINE
 STA 1909+70 TO 1929+45
 UNDERGROUND PRIVATE GAS LINE
 STA 1921+50 TO 1924+17 LT
 SR 2045
 STA 822+10 LT/RT
 CROSSING
 UNDERGROUND 16" GAS LINE

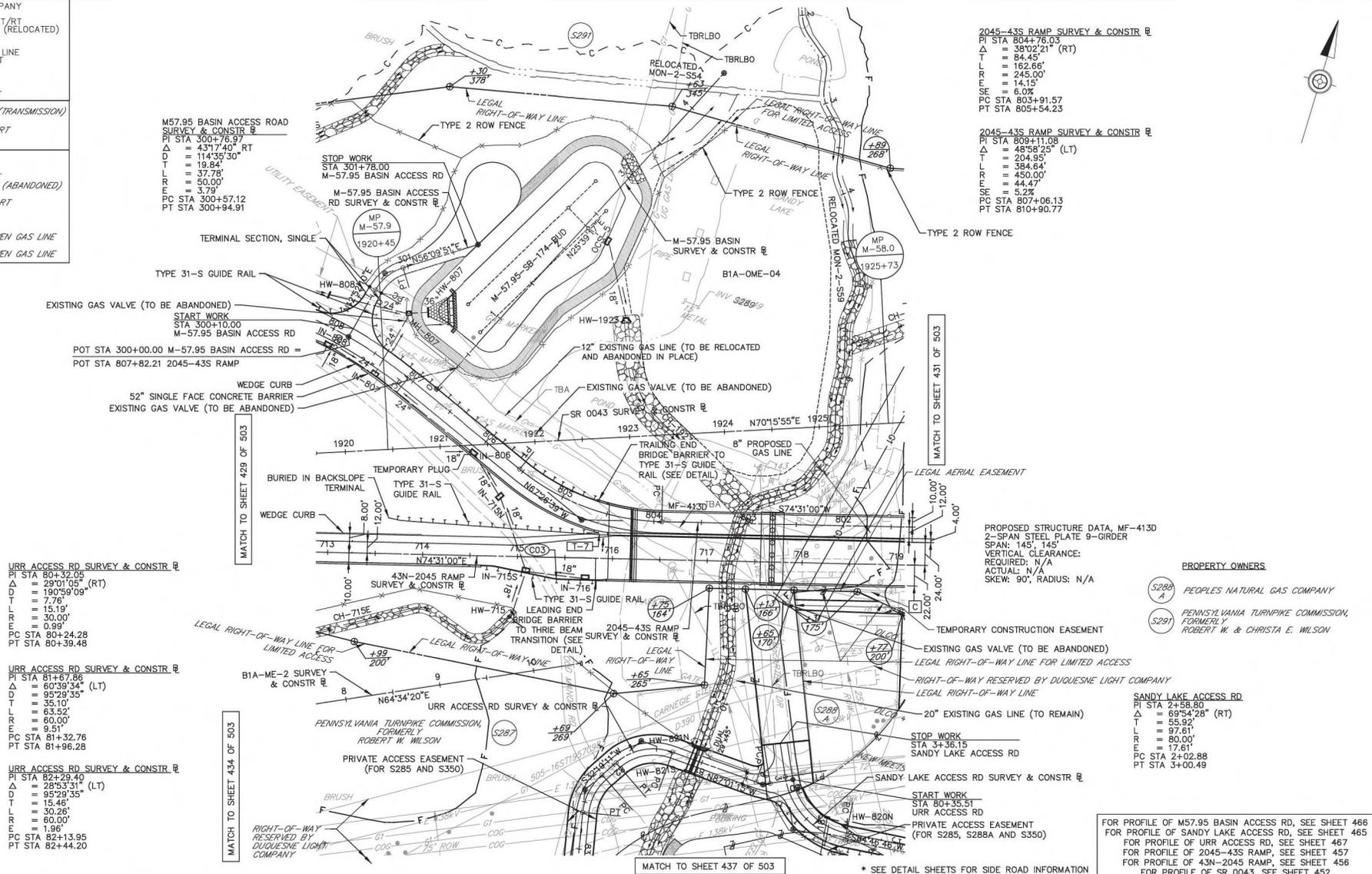
DUQUESNE LIGHT COMPANY (TRANSMISSION)
 SR 0043
 STA 1919+60 TO 1925+80 RT
 OVERHEAD ELECTRIC 138KV

US STEEL CORPORATION
 RAMP 2045-43S
 STA 804+00 TO 811+00 RT
 UNDERGROUND 8" DRIP LINE (ABANDONED)
 SR 0043
 STA 1920+75 TO 1929+45 RT
 OVERHEAD TELECOMM LINE
 SR 2045
 STA 820+50 LT/RT
 UNDERGROUND 54" COKE OVEN GAS LINE
 STA 820+65 LT/RT
 UNDERGROUND 42" COKE OVEN GAS LINE

M57.95 BASIN ACCESS ROAD
 SURVEY & CONSTR R
 PI STA 300+76.97
 $\Delta = 4317'40"$ RT
 $D = 114'35'30"$
 $L = 19.84'$
 $T = 37.78'$
 $R = 50.00'$
 $E = 3.79'$
 PC STA 300+57.12
 PT STA 300+94.91

2045-43S RAMP SURVEY & CONSTR R
 PI STA 804+76.03
 $\Delta = 38'02'21"$ (RT)
 $T = 84.45'$
 $L = 162.66'$
 $R = 245.00'$
 $E = 14.15'$
 $SE = 6.08'$
 PC STA 803+91.57
 PT STA 805+54.23

2045-43S RAMP SURVEY & CONSTR R
 PI STA 809+11.08
 $\Delta = 48'58'25"$ (LT)
 $T = 204.95'$
 $L = 384.84'$
 $R = 450.00'$
 $E = 44.47'$
 $SE = 5.28'$
 PC STA 807+06.13
 PT STA 810+90.77



URR ACCESS RD SURVEY & CONSTR R
 PI STA 80+32.05
 $\Delta = 29'01'05"$ (RT)
 $D = 190'59'09"$
 $L = 7.76'$
 $T = 15.19'$
 $R = 30.00'$
 $E = 0.99'$
 PC STA 80+24.28
 PT STA 80+39.48

URR ACCESS RD SURVEY & CONSTR R
 PI STA 81+67.86
 $\Delta = 60'39'34"$ (LT)
 $D = 95'29'35"$
 $T = 35.10'$
 $L = 63.52'$
 $R = 60.00'$
 $E = 9.51'$
 PC STA 81+32.76
 PT STA 81+96.28

URR ACCESS RD SURVEY & CONSTR R
 PI STA 82+29.40
 $\Delta = 28'53'31"$ (LT)
 $D = 95'29'35"$
 $T = 15.46'$
 $L = 30.26'$
 $R = 60.00'$
 $E = 9.51'$
 PC STA 82+13.95
 PT STA 82+44.20

PROPOSED STRUCTURE DATA, MF-4130
 2-SPAN STEEL PLATE 9-GIRDER
 SPAN: 145', 145'
 VERTICAL CLEARANCE:
 REQUIRED: N/A
 ACTUAL: N/A
 SKEW: 90°, RADIUS: N/A

PROPERTY OWNERS
 (S288) A PEOPLES NATURAL GAS COMPANY
 (S291) PENNSYLVANIA TURNPIKE COMMISSION,
 FORMERLY ROBERT W. & CHRISTA E. WILSON

SANDY LAKE ACCESS RD
 PI STA 2+58.80
 $\Delta = 69'54'28"$ (RT)
 $T = 55.92'$
 $L = 97.61'$
 $R = 80.00'$
 $E = 17.61'$
 PC STA 2+02.88
 PT STA 3+00.49

FOR PROFILE OF M57.95 BASIN ACCESS RD, SEE SHEET 466
 FOR PROFILE OF SANDY LAKE ACCESS RD, SEE SHEET 465
 FOR PROFILE OF URR ACCESS RD, SEE SHEET 467
 FOR PROFILE OF 2045-43S RAMP, SEE SHEET 457
 FOR PROFILE OF 43N-2045 RAMP, SEE SHEET 456
 FOR PROFILE OF SR 0043, SEE SHEET 452

PENNSYLVANIA TURNPIKE COMMISSION
 PROJECT NO. 1601RDP095
 DRAWING NO. 1A
 DATE: 08/11/2010
 USER: NAME: TMOORIS



PREPARED BY:
 PENNONI
 FOSTER PLAZA 6
 681 ANDERSEN DRIVE, SUITE 305
 PITTSBURGH, PA 15220
 PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

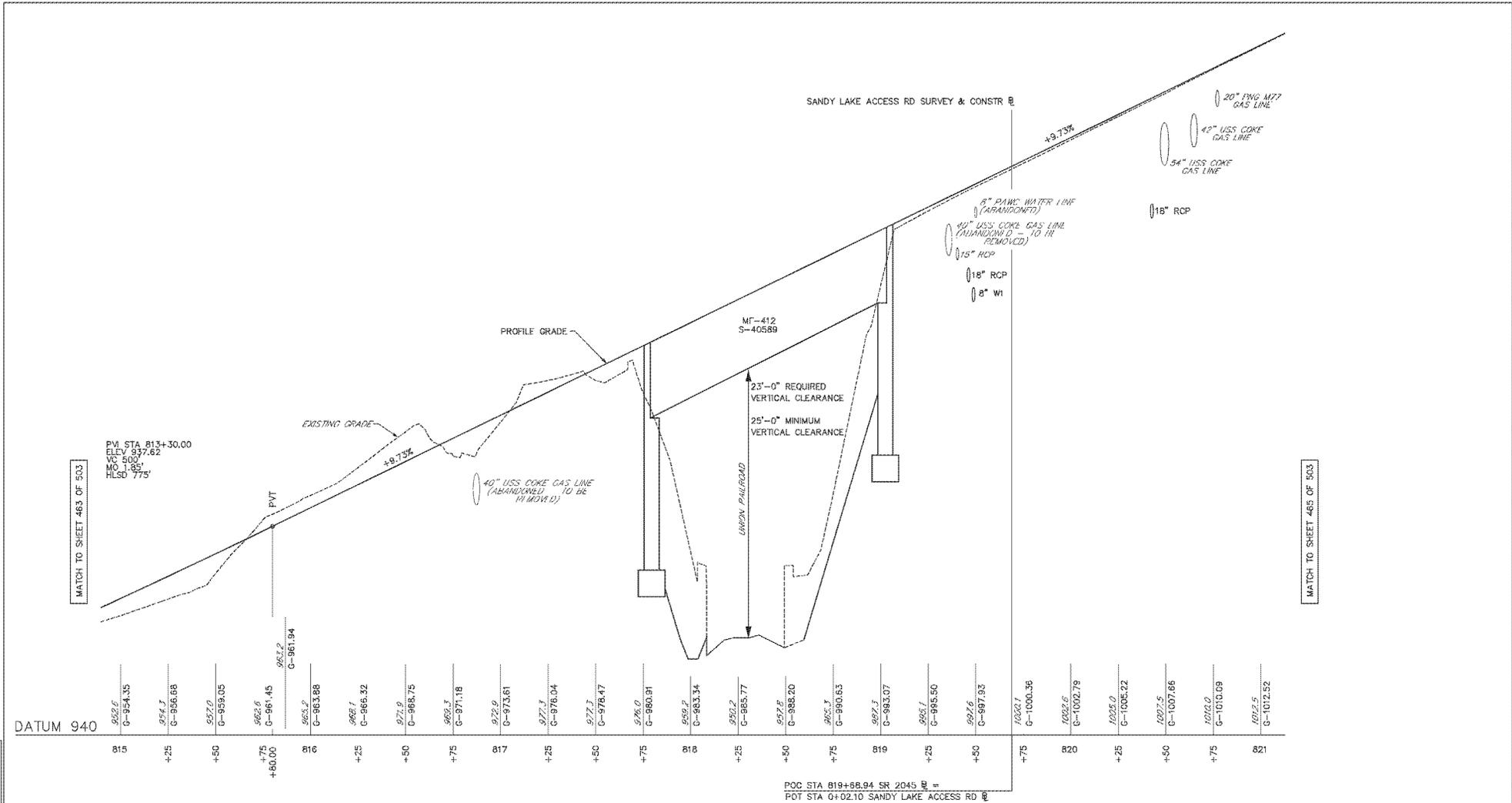
WBS NO.
M-052.50X002-3-03
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 STRUCTURE NUMBER:
 SCALE: 0 50 100

MONFAYETTE EXPRESSWAY
SECTION 53B1A
STATE ROUTE 0043

DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: WEST MIFFLIN & DRAVOSBURG

SR 0043 PLAN
STA 1919+75.00 TO STA 1925+75.00

DRAWING: 11 OF 19
 SHEET: 430 OF 503



SR 2045 RICHLAND AVENUE / PITTSBURGH McKEESPORT BOULEVARD

FOR PLAN, SEE SHEET 437 OF 503

	PREPARED BY: PENNONI FOSTER PLAZA 6 881 ANDERSEN DRIVE, SUITE 305 PITTSBURGH, PA 15220 PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION		WBS NO. M-052.50X002-3-03			MONFAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043	SR 2045 SEC A11 RICHLAND AVE / PITTSBURGH McKEESPORT BLVD PROFILE STA 815+00.00 TO STA 821+00.00	
			NO.	REVISIONS	DATE			APPR.

PENNONI CONSULTING ENGINEERS, INC.
 1000 W. MONROE ST., SUITE 200
 PITTSBURGH, PA 15220
 TEL: 724-781-1234 FAX: 724-781-1235
 WWW.PENNONIENGINEERS.COM
 DRAWN: J. SMITH CHECKED: T. MORRIS
 DATE: 01/15/2010

GENERAL NOTES:

- DESIGN SPECIFICATIONS:**
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017 AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019 INCLUDING LATEST REVISIONS.
 - LIVE LOAD DISTRIBUTION TO BEAMS IS BASED UPON DM-4 DISTRIBUTION FACTOR METHOD.
 - DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.
- DESIGN LIVE LOADS:**
 - PHI-93, P-82, AND P2016-13.
 - FATIGUE DESIGN IS BASED ON THE FOLLOWING: STEEL STRUCTURES: ADTT = 1059 (2045) (ONE DIRECTIONAL)
- DESIGN DEAD LOADS:**
 - INCLUDES A SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
 - INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEY OF THE FORMS.
 - DEAD LOAD INCLUDES 0.125 KIP/FT COMPOSITE LOAD IN EXTERIOR BAY B FOR FUTURE UTILITIES.
- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS PUBLICATION 408/2020-B, INCLUDING CURRENT SUPPLEMENTS AND CONTRACT SPECIAL PROVISIONS.
- PROVIDE 2 INCH CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- USE CLASS AAAP CEMENT CONCRETE IN DECK SLABS, HAUNCHES, AND END DIAPHRAGMS.
- USE CLASS AA CEMENT CONCRETE IN BACKWALLS, CHEEKWALLS, TYPE 1 APPROACH SLABS, AND SLEEPER SLABS.
- USE CLASS AA CEMENT CONCRETE, EXCEPT USE NO. B COARSE AGGREGATE IN BARRIERS.
- USE CLASS A CEMENT CONCRETE IN ABUTMENTS BELOW BEAM SEAT, WINGWALLS, AND FOOTINGS.
- A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE COMMISSION.
- PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A 615/A 615M, A 996/A 996M, OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL BARS UNLESS SPECIFIED. GRADE 40 REINFORCING STEEL BARS MAY BE SUBSTITUTED WITH A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA, IF APPROVED BY THE REPRESENTATIVE. DO NOT USE RAIL STEEL A 996/A 996M REINFORCEMENT BARS IN BRIDGE PIERS, ABUTMENTS, SHEAR BLOCKS, BEAMS, FOOTINGS, PILES, BARRIERS, OR WHERE BENDING OR WELDING OF THE REINFORCEMENT BARS IS INDICATED.
- ALL REINFORCEMENT BARS ARE TO BE EPOXY-COATED.
- WELDING OF REINFORCEMENT BARS DURING FABRICATION OR CONSTRUCTION IS NOT PERMITTED UNLESS SPECIFIED.
- GALVANIZED REINFORCEMENT BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCEMENT BARS AT NO ADDITIONAL COST TO THE COMMISSION.
- RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
- SOIL CLASSIFICATION SITE CLASS IS NOT CLASS E.
- CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
- PLACE CHEEKWALL & BACKWALL AFTER BEAMS ARE SET IN POSITION.
- CHAMFER EXPOSED CONCRETE EDGES 3/4 IN x 3/4 IN, EXCEPT AS NOTED.
- ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
- USE PERMANENT METAL FORMS TO CONSTRUCT THE INTERIOR PORTIONS OF THE DECK SLAB.
- DECK SLAB THICKNESS INCLUDES A 1/2 INCH INTEGRAL WEARING SURFACE.
- SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68 DEGREES FAHRENHEIT.
- PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-736M, UNLESS OTHERWISE INDICATED.
- PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.3(k)(9).
- FUTURE JACKING FOR BEARING REPLACEMENT OR BEARING RESET CAN BE ACCOMMODATED WITH JACKS SUPPORTED BY ABUTMENT BEAM SEATS AT LOCATIONS OF JACKING STIFFENERS.

- APPLY PROTECTIVE COATING FOR REINFORCED CONCRETE SURFACES (PENETRATING SEALER) TO THE ENTIRE BRIDGE DECK AND INSIDE AND TOP OF CURBS, BARRIERS, AND APPROACH SLABS AS SPECIFIED IN SECTION 1001.3(i).
- EXISTING BRIDGE IS POSTED FOR A WEIGHT RESTRICTION OF 22 TONS EXCEPT COMBINATIONS 27 TONS. SEE PUBLICATION 408, SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.
- UTILITY NOTES:**
 - COORDINATE, LOCATE, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408/2020, SECTIONS 105.06 AND 107.12.
- THE FOLLOWING LEGEND APPLIES TO ALL DRAWINGS:

BFE = BOTTOM OF FOOTING ELEVATION	EF = EACH FACE
BOT = BOTTOM	FF = FRONT FACE
BRG = BEARING	RF = REAR FACE
SPA = SPACE	CLR = CLEAR
WP = WORK POINT	CONSTR = CONSTRUCTION
PG = PROFILE GRADE	
- FOUNDATION NOTES:**
 - THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF ALL EXCAVATED SPACES. DIRECT SURFACE RUNOFF AWAY FROM THE EXCAVATION AND PROVIDE SUFFICIENT DRAINAGE SO THAT THE EXCAVATIONS ARE DRY ENOUGH TO BE INSPECTED BY THE COMMISSION'S REPRESENTATIVE.
 - USE SULFATE CORROSION RESISTANT CEMENT CONCRETE AND EPOXY-COATED REINFORCEMENT FOR ALL SUBSTRUCTURES.
 - PROVIDE ADEQUATE DRAINAGE BEHIND THE ABUTMENTS TO REDUCE THE BUILD-UP OF ANY HYDROSTATIC PRESSURE.
 - BLASTING SHALL NOT BE USED AS A METHOD OF EXCAVATION FOR FOOTING CONSTRUCTION.
 - DESIGN AND CONSTRUCT TEMPORARY SHORING/EXCAVATION IN ACCORDANCE WITH SPECIAL PROVISION TEMPORARY SHORING AND OSHA REQUIREMENTS. COORDINATE DESIGN OF TEMPORARY SHORING THAT FALLS WITHIN THE RIGHT-OF-WAY OF THE RAILROAD AREA WITH UNION RAILROAD.
 - FOR MICROPILE NOTES AND ADDITIONAL ABUTMENT NOTES, SEE SHEET 17.
- FABRICATED STRUCTURAL STEEL NOTES:**
 - PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M 270 / M 270M, GRADE 50W (ASTM A 709 / A 709M, GRADE 50W) DESIGNATION, EXCEPT WHEN NOTED OTHERWISE.
 - PAINT ALL GIRDERS AND STRUCTURAL STEEL FOR A LENGTH OF 8'-3" FROM ABUTMENT 2 GIRDER ENDS IN ACCORDANCE WITH SECTION 1080 AND THE SPECIAL PROVISIONS. THE COLOR OF THE FINISH COAT WILL BE REDDISH BROWN MATCHING FEDERAL STANDARD 595C COLOR NO.10075. PAINT IS INCIDENTAL TO FABRICATED STRUCTURAL STEEL.
 - IF GIRDERS CANNOT BE SHIPPED IN THE LENGTHS SHOWN ON THE PLANS, ADDITIONAL FIELD SPLICE(S) WILL BE PERMITTED AT THE REQUEST OF THE CONTRACTOR, BUT NO COMPENSATION WILL BE ALLOWED FOR THE SPLICES.
 - IF THE GIRDERS CAN BE FABRICATED IN LENGTHS LONGER THAN THE SECTIONS SHOWN ON THE PLANS BY ELIMINATING THE FIELD SPLICE, FIELD SPLICE MAY BE OMITTED AT THE REQUEST OF THE CONTRACTOR. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR SECURING A HAULING PERMIT. APPROVAL FOR ELIMINATION OF A FIELD SPLICE AT THE SHOP DRAWING STAGE DOES NOT OBLIGATE THE COMMISSION TO ISSUE A HAULING PERMIT.
 - DO NOT USE FORM SUPPORT SYSTEMS THAT WILL CAUSE UNACCEPTABLE OVERSTRESS OR DEFORMATION TO PERMANENT BRIDGE MEMBERS.
 - ALL FASTENERS ARE 7/8" DIA ASTM F3125 GRADE A325 TYPE 3. THREADS TO BE EXCLUDED FROM THE SHEAR PLANE.
 - REAM SUBDRILLED OR SUBPUNCHED HOLES FOR FIELD SPLICES IN THE FABRICATION SHOP.
 - DO NOT MAKE WELDS BY MANUAL SHIELDED METAL ARC PROCESS FOR PRIMARY GIRDER WELDS, SUCH AS FLANGE-TO-WEB WELDS OR FOR SHOP SPLICES OF WEBS AND FLANGES.
 - PROVIDE WELDED STUD SHEAR CONNECTORS MANUFACTURED FROM STEEL CONFORMING TO ASTM A108.
 - SET ANCHOR BOLTS TO TEMPLATE OR IN PREFORMED HOLES. DO NOT DRILL UNLESS SPECIFICALLY INDICATED ON PLANS. FILL THE PREFORMED HOLES WITH NON-SHRINK GROUT. FILL THE CLEARANCE BETWEEN ANCHOR BOLTS AND HOLES IN MASONRY PLATES WITH APPROVED NON-HARDENING CAULKING COMPOUND CONFORMING TO SECTION 705.7.
 - PERFORM CHARPY V-NOTCH (CVN) TESTS AS SPECIFIED AS PER PUBLICATION 408, SECTION 1105.02(a)(5).
 - DO NOT PLACE ANY DECK CONCRETE, SIP FORMS, OR DECK REINFORCEMENT BARS UNTIL ALL STRUCTURAL STEEL IS IN PLACE AND FULLY CONNECTED.
 - THE STEEL SUPERSTRUCTURE SHALL BE DETAILED AND FABRICATED FOR STEEL DEAD LOAD FIT.

- FIELD WELDING NOTES:**
 - WELDING SPECIFICATIONS: AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE (2015) CONSISTENT WITH PUBLICATION 408 SECTION 1105.03(M) AND THE CONTRACT SPECIAL PROVISIONS. DO NOT FIELD WELD ON ANY PART OF THE BRIDGE EXCEPT WHERE SHOWN ON THE DRAWINGS, WITHOUT PRIOR APPROVAL OF THE REPRESENTATIVE.
 - MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE AND INCORPORATE IN THE FINAL WELD. NO OTHER TACK WELDING WILL BE PERMITTED.
 - DO NOT WELD WHEN SURFACES TO BE WELDED ARE MOIST OR EXPOSED TO RAIN, SNOW, OR WIND, OR WHEN WELDERS ARE EXPOSED TO INCLEMENT CONDITIONS THAT WILL ADVERSELY AFFECT THE QUALITY OF THE WORK.
 - DO NOT WELD OR BURN WHEN THE TEMPERATURE IS BELOW 0°F. PREHEAT AND MAINTAIN THE TEMPERATURE OF THE METAL TO AT LEAST 70°F WHEN THE TEMPERATURE OF THE METAL IS BETWEEN 0°F AND 32°F DURING WELDING AND BURNING.
 - PREHEAT THE STEEL TO THE SPECIFIED MINIMUM TEMPERATURE FOR A DISTANCE EQUAL TO THE THICKNESS OF THE PART BEING WELDED, BUT NOT LESS THAN 3" IN ALL DIRECTIONS FROM THE POINT OF WELDING.
 - REMOVE BY APPLICATION OF HEAT, ANY MOISTURE PRESENT AT POINT OF WELD. PROVIDE WINDBREAKS FOR PROTECTION, FROM DIRECT WIND.
 - PRIOR TO PLACING WELD, THOROUGHLY CLEAN ALL PORTIONS OF NEW AN EXISTING SURFACES TO RECEIVE WELDS OF ALL FOREIGN MATTER, INCLUDING PAINT FILM, FOR A DISTANCE OF 2" FROM EACH SIDE OF THE OUTSIDE LINE OF THE WELD.
 - TEST COMPLETED WELDS USING VISUAL AND NON-DESTRUCTIVE METHODS IN ACCORDANCE WITH AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE CHAPTER 6.
- EXISTING BRIDGE PLANS:**
 - DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE TURNPIKE COMMISSION OR ITS AUTHORIZED AGENTS AS POSITIVE REPRESENTATIONS OF ANY OF THE CONDITIONS THAT YOU WILL ENCOUNTER IN THE FIELD. THIS DATA IS NOT TO BE CONSIDERED A BASIS FOR COMPUTATION OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THE BIDDER IS NOT TO RELY ON THIS INFORMATION, BUT IS TO ASSUME THE POSSIBILITY THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED.

REFERENCE DRAWINGS -- EXISTING BRIDGE		
STRUCTURE NO.	DRAWING NO.	TITLE
COUNTY OF ALLEGHENY BRIDGE NO.1 UNION RAILROAD APRIL 1956	22535	GENERAL PLAN AND ELEVATION
	22536	CONTOUR PLAN AND GENERAL NOTES
	22537	FOUNDATION PLAN AND DETAILS NORTH ABUTMENT
	22538	DETAILS OF SOUTH ABUTMENT AND PEDESTALS
	22539	PRECAST CONCRETE BEAM DETAILS
	22540	PIERS NO 1 AND NO 2
	22541	HANDRAIL

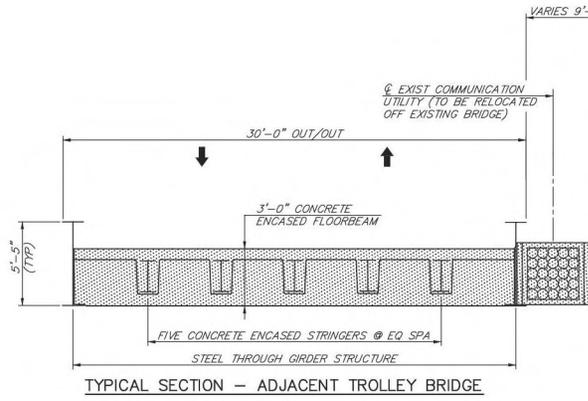
PROVIDED FOR INFORMATION ONLY.

SEQUENCE OF BRIDGE CONSTRUCTION:

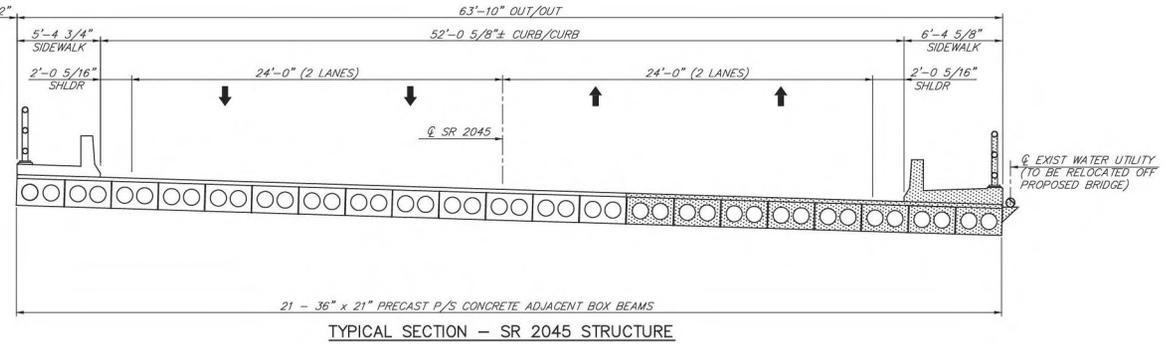
- PLACE TEMPORARY STRUCTURE MOUNTED BARRIER FOR STAGE 1, SEE TRAFFIC CONTROL PLAN. INSTALL EROSION AND SEDIMENT CONTROLS.
- INSTALL TEMPORARY SHORING.
- REMOVE PORTION OF EXISTING STRUCTURE THAT INTERFERES WITH NEW STAGE 1 CONSTRUCTION. ANTICIPATED REMOVAL INCLUDES THE THREE-SPAN PORTION OF ORIGINAL WIDENED STRUCTURE, INCLUDING SIDEWALK, ADJACENT BOX BEAMS, ABUTMENT 1, PIER BENTS AND ABUTMENT 2. RETAIN ORIGINAL STRUCTURE NORTHEAST AND SOUTHEAST U-WINGS. REMOVE ADJACENT TROLLEY BRIDGE SUPERSTRUCTURE.
- CONSTRUCT NEW SUBSTRUCTURE AND SUPERSTRUCTURE WITHIN STAGE 1 LIMITS.
- PLACE TEMPORARY STRUCTURE MOUNTED BARRIER FOR STAGE 2.
- MODIFY TEMPORARY SHORING FOR STAGE 2 WORK.
- REMOVE REMAINING PORTIONS OF EXISTING STRUCTURE.
- CONSTRUCT NEW SUBSTRUCTURE AND SUPERSTRUCTURE WITHIN STAGE 2 LIMITS.

THE PENNSYLVANIA TURNPIKE COMMISSION
 100 MARKET STREET, PITTSBURGH, PA 15222
 TEL: 412-261-2000 FAX: 412-261-2001
 WWW.PENNTURNPIKE.COM

DES: ALB	DWG: EF	CKD: ALB					BMS. NO. 02 2045 0030 0841	BRKEY NO. 1559				
PREPARED BY: PENNONI FOSTER PLAZA B 681 ANDERSEN DRIVE, SUITE 305 PITTSBURGH, PA 15220					WBS NO. M-052.50X002-3-03 NETWORK NUMBER: 7008401 FILE NAME: 1601STgn02 DRAWING TYPE: 2G STRUCTURE NUMBER: S-40589 (MF-412)			MON/FAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043	S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.) OVER UNION RAILROAD STA. 818+40.00 SINGLE SPAN COMPOSITE STEEL PLATE MULTI-GIRDER BRIDGE GENERAL NOTES			
PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION					DISTRICT: 1 COUNTY: ALLEGHENY TOWNSHIP/BOROUGHS: DRAVOCSBURG BOROUGHS			DRAWING: OF SHEET: 2 OF 66				
			NO.		REVISIONS		DATE		APPR.		SCALE: AS NOTED	



TYPICAL SECTION - ADJACENT TROLLEY BRIDGE

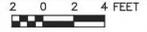


TYPICAL SECTION - SR 2045 STRUCTURE

LEGEND

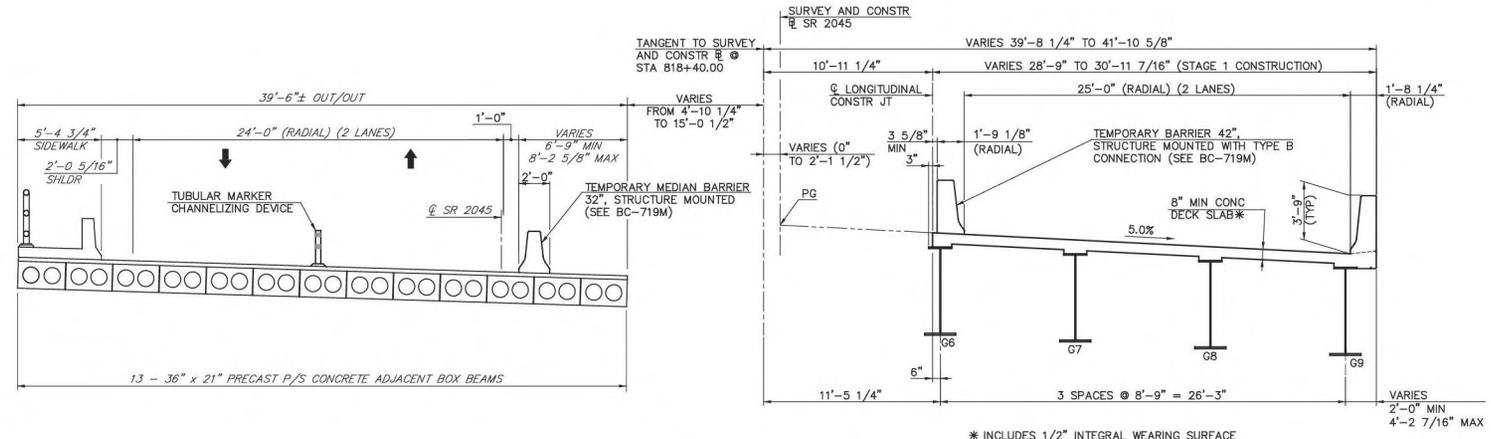
 DENOTES REMOVAL OF EXISTING STRUCTURE - STAGE 1

TYPICAL SECTION - EXISTING STRUCTURES

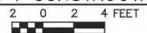


NOTES:

- REFER TO THE TRAFFIC CONTROL PLAN FOR OVERALL SEQUENCE OF CONSTRUCTION.
- FOR TEMPORARY MEDIAN BARRIER 32\"/>



STAGE 1 CONSTRUCTION



PENNONT ASSOCIATES, INC. ENGINEERING: SPH
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 USER: JMKAPLAN

DES: DFG DWG: ASA CKD: DFG

PREPARED BY: PENNONT
 FOSTER PLAZA 6
 681 ANDERSEN DRIVE, SUITE 305
 PITTSBURGH, PA 15220

PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.
 M-052.50X002-3-03

NETWORK NUMBER: 7008401

FILE NAME: 1601ST.dwg

DRAWING TYPE: 2G

STRUCTURE NUMBER: S-40589 (MF-412)

SCALE: AS NOTED

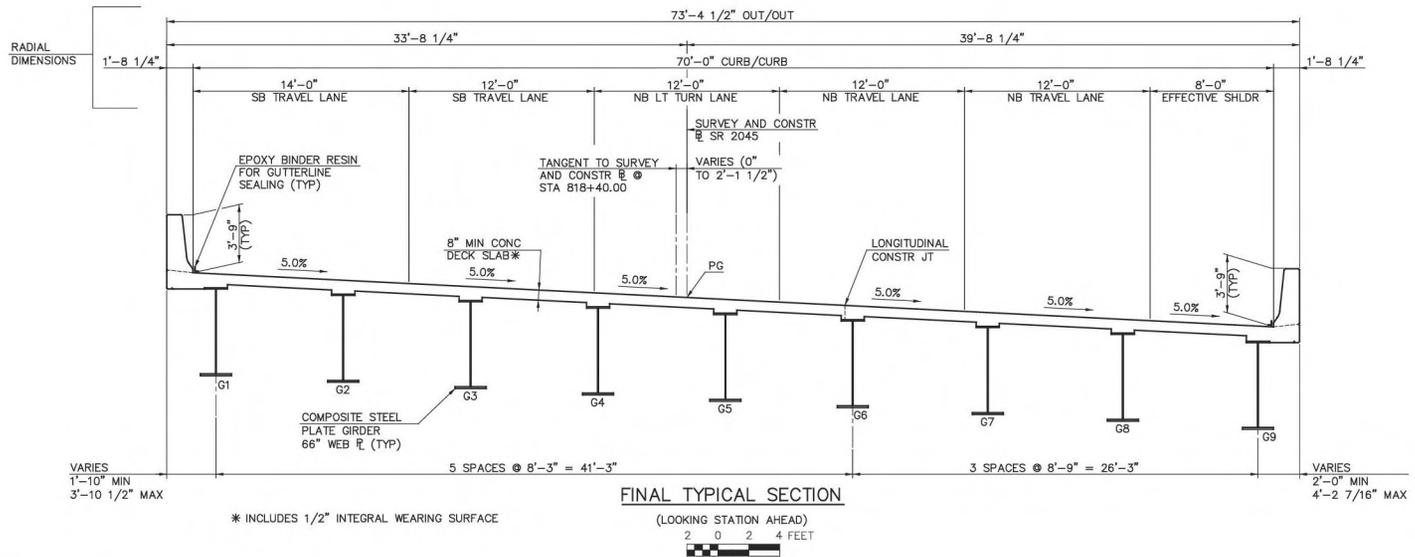
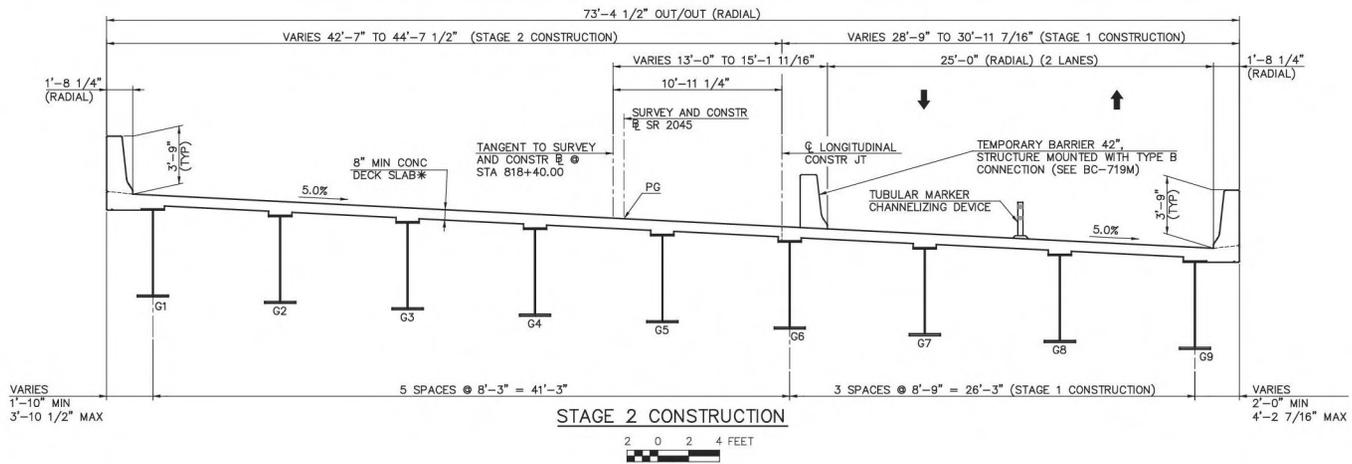
MON/FAYETTE EXPRESSWAY
SECTION 53B1A
STATE ROUTE 0043

DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOESBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1599

S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
OVER UNION RAILROAD STA. 818+40.00
SINGLE SPAN COMPOSITE STEEL PLATE
MULTI-GIRDER BRIDGE
CONSTRUCTION STAGING - SHEET 1 OF 2

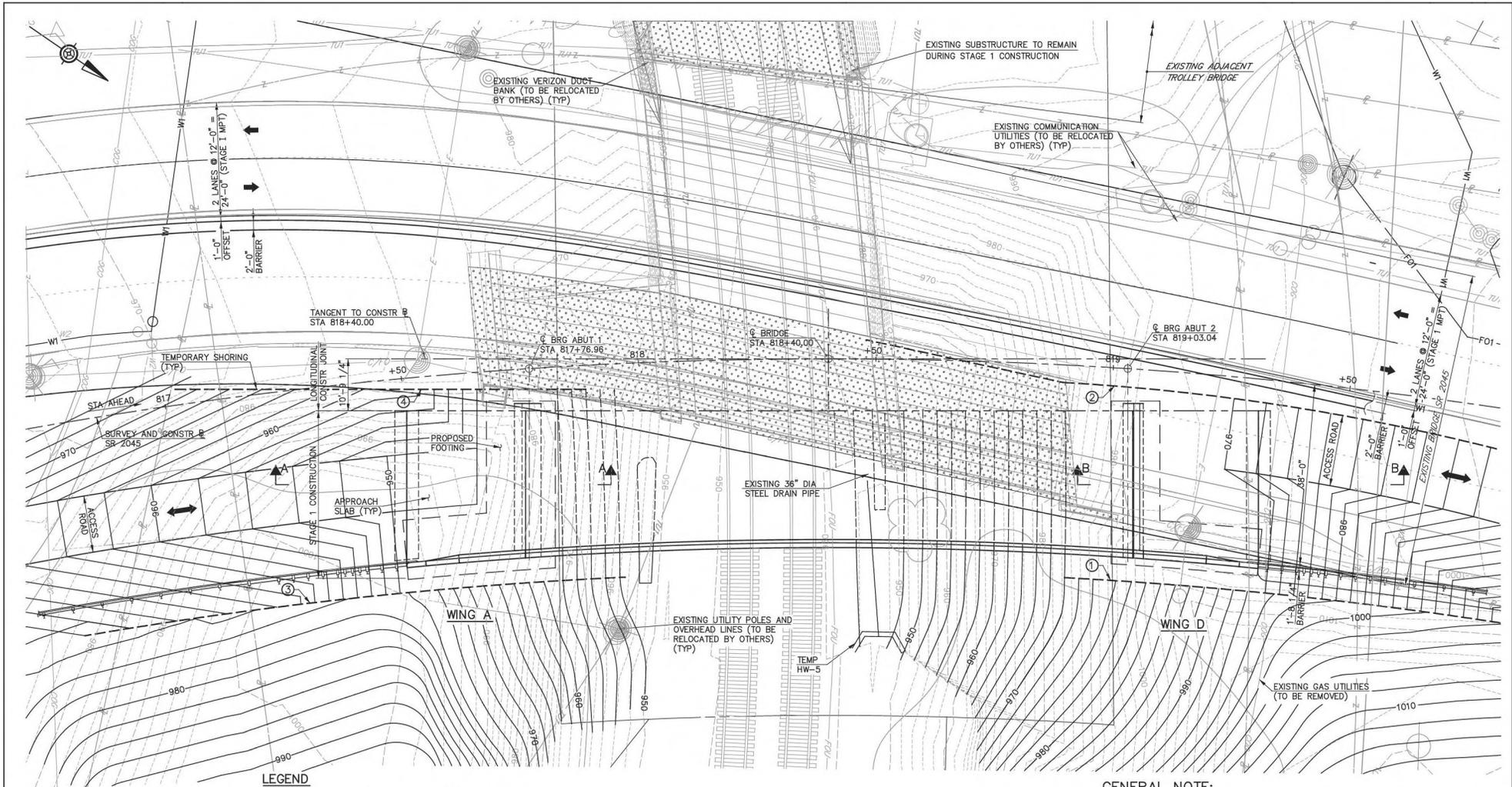
DRAWING: OF
 SHEET: 6 OF 66



- NOTES:**
- REFER TO THE TRAFFIC CONTROL PLAN FOR OVERALL SEQUENCE OF CONSTRUCTION.
 - FOR TEMPORARY MEDIAN BARRIER 32", STRUCTURE MOUNTED DETAILS, SEE BC-719M.

PENNONI ASSOCIATES, INC. PROJECT NO. 2045-0030-0841
 1000 PARKWAY, PITTSBURGH, PA 15222
 TEL: 412-681-1100 FAX: 412-681-1101
 WWW.PENNONI.COM

DES: DFG	DWG: EF	CKD: ALB	PREPARED BY: PENNONI FOSTER PLAZA 6 681 ANDERSEN DRIVE, SUITE 305 PITTSBURGH, PA 15220			WBS NO. M-052.50X002-3-03			BMS. NO. 02 2045 0030 0841		BRKEY NO. 1599	
						NETWORK NUMBER: 7008401 FILE NAME: 1601Stdt07 DRAWING TYPE: 2G STRUCTURE NUMBER: S-40589 (MF-412)			MON/FAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043		S.R. 2045 (PITTSBURGH-MCKEESPORT BLVD.) OVER UNION RAILROAD STA. 818+40.00 SINGLE SPAN COMPOSITE STEEL PLATE MULTI-GIRDER BRIDGE CONSTRUCTION STAGING - SHEET 2 OF 2	
PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION			NO. _____			SCALE: AS NOTED			DISTRICT: 1		COUNTY: ALLEGHENY	DRAWING: _____ OF _____
			REVISIONS			DATE			TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH		SHEET: 7 OF 66	



- LEGEND**
- DENOTES MINIMUM PORTION OF EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE TO BE REMOVED DURING STAGE 1 CONSTRUCTION.
 - GENERAL LOCATION OF TEMPORARY SHORING DURING STAGE 1 CONSTRUCTION. ACTUAL LENGTH AND LOCATION MAY VARY BASED UPON CONTRACTOR DESIGN.
 - TEMPORARY SHORING LINE #.
 - DENOTES ABUTMENT ACCESS ROAD.

PLAN - STAGE 1
 10 0 10 FEET

GENERAL NOTE:
 ABUTMENT ACCESS ROADS AND TEMPORARY SHORING DEPICTED IN THE FOLLOWING SHEETS IS A SCHEMATIC REPRESENTATION OF HOW THE ABUTMENTS COULD BE CONSTRUCTED. LAYDOWN AREAS BEYOND THE ENTRANCE TO THESE ROADS THAT MAY BE NECESSARY ARE NOT SHOWN. THE SCHEME WAS DEVELOPED TO ILLUSTRATE ONE POTENTIAL METHOD OF CONSTRUCTING THE ABUTMENTS.

FOR INFORMATION ONLY

DES: DFG DWG: ALB CKD: DFG

PREPARED BY: PENNONI
 FOSTER PLAZA 6
 681 ANDERSEN DRIVE, SUITE 305
 PITTSBURGH, PA 15220

PREPARED FOR:
 THE PENNSYLVANIA
 TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.
 M-052.50X002-3-03

NETWORK NUMBER: 7008401

FILE NAME: 1601ST.dwg

DRAWING TYPE: 2G

STRUCTURE NUMBER: S-40589 (MF-412)

SCALE: AS NOTED

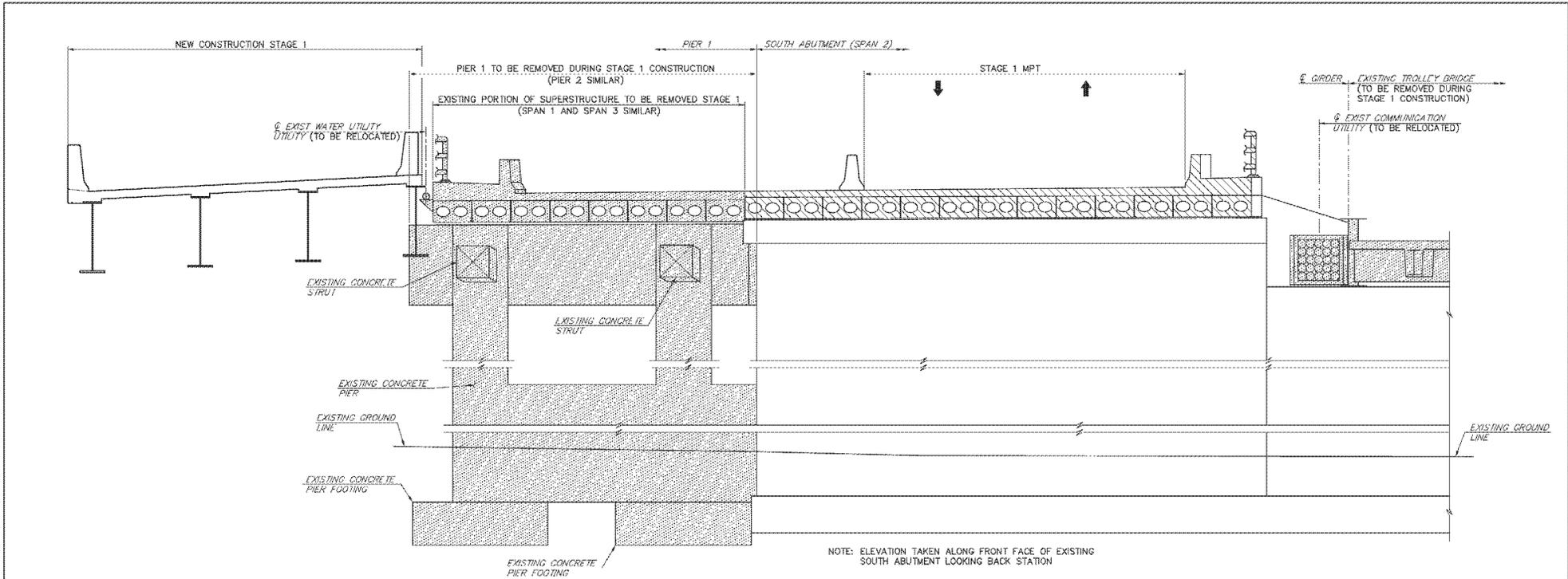
MON/FAHEY EXPRESSWAY
SECTION 53B1A
STATE ROUTE 0043

DISTRICT: 1 COUNTY: ALLEGHENY
 TOWNSHIP / BOROUGH: DRAVOBSBURG BOROUGH

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.)
OVER UNION RAILROAD STA. 818+40.00
SINGLE SPAN COMPOSITE STEEL
PLATE MULTI-GIRDER BRIDGE
CONCEPTUAL ABUTMENT ACCESS PLAN
SHEET 1 OF 6

DRAWING: OF
 SHEET: 9 OF 66



DATUM 936.00

LEGEND

-  TEMPORARY BARRIER 42", STRUCTURE MOUNTED
-  TEMPORARY MEDIAN BARRIER 32", STRUCTURE MOUNTED

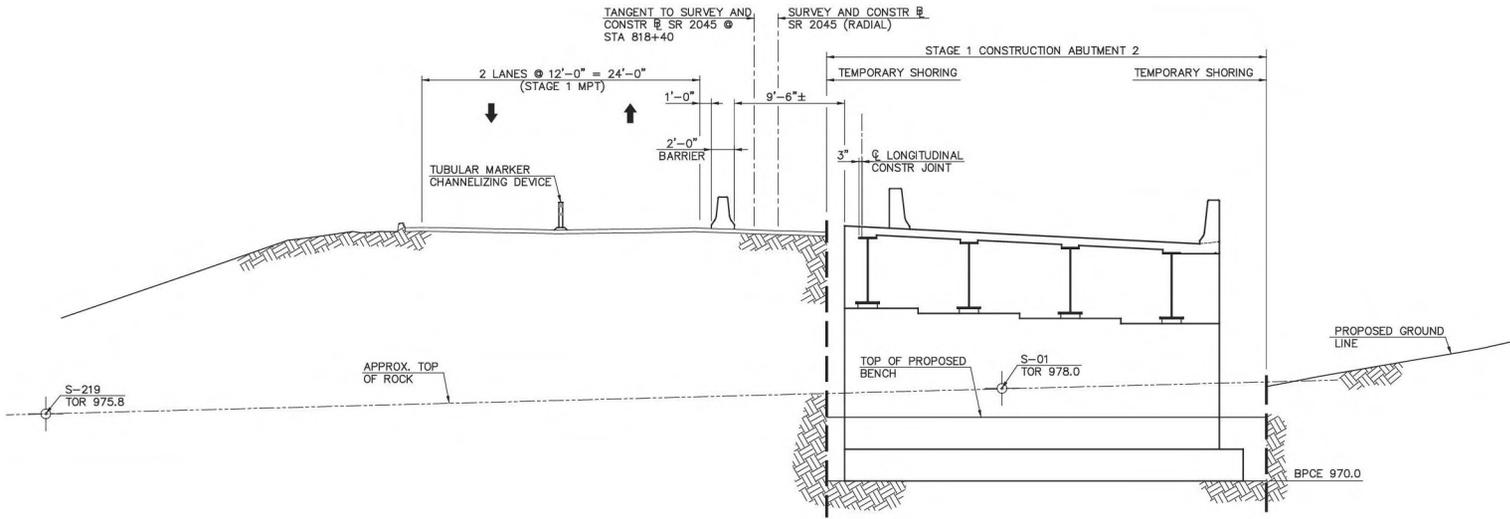
**ELEVATION -- SOUTH ABUTMENT AND PIER 1
REMOVAL LIMITS FOR PIER 1 STAGE 1
(PIER 2 STAGE 1 SIMILAR)**



FOR INFORMATION ONLY

PENNSYLVANIA TURNPIKE COMMISSION
 PROJECT NO. 02 2045 0030 0841
 DRAWING NO. 53B1A
 SHEET NO. 5 OF 6
 DATE: 10/13/11
 BY: JDS
 CHECKED: ASA
 DESIGNED: DFG

DES: DFG	DWG: ASA	CKD: JDS	PREPARED BY: PENNONI FOSTER PLAZA 6 681 ANDERSEN DRIVE, SUITE 305 PITTSBURGH, PA 15220			WBS NO. M-052.56X002-3-03 NETWORK NUMBER: 7008401 FILE NAME: 1601ST0113 DRAWING TYPE: 2G STRUCTURE NUMBER: S-40589 (MF-412)	MONFAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043	BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559 S.R. 2045 (PITTSBURGH-MCKEESPORT BLVD.) OVER UNION RAILROAD STA. 818+40.00 SINGLE SPAN COMPOSITE STEEL PLATE MULTI-GIRDER BRIDGE CONCEPTUAL ABUTMENT ACCESS PLAN SHEET 5 OF 6
PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION			DISTRICT: 1 COUNTY: ALLEGHENY TOWNSHIP / BOROUGH: DRAVOCSBURG BOROUGH	SCALE: AS NOTED NO. REVISIONS DATE APPR.		DRAWING: OF SHEET: 13 OF 65		



DATUM 950.0

LEGEND

-  TEMPORARY BARRIER 42", STRUCTURE MOUNTED
-  TEMPORARY MEDIAN BARRIER 32", STRUCTURE MOUNTED

**SECTION PERPENDICULAR TO TANGENT @
SURVEY AND CONSTR @ STA 819+03.00
LOOKING STATIONS AHEAD
(ELEVATION — ABUTMENT 2)**



FOR INFORMATION ONLY

NOTES:

- FOR BORING LOCATION TABLE, SEE SHEET 1.
- TOR DENOTES TOP OF ROCK.

PENNONI ASSOCIATES, INC. 1000 WESTERN AVENUE, SUITE 200, PITTSBURGH, PA 15220
 PROJECT: MON/FAYETTE EXPRESSWAY, SECTION 53B1A, STATE ROUTE 0043
 DRAWING NO. 1601STd14
 DATE: 08/14/14
 DRAWN BY: JAS
 CHECKED BY: JAS

DES: DFG DWG: ASA CKD: JDS



PREPARED BY: PENNONI
FOSTER PLAZA 6
681 ANDERSEN DRIVE, SUITE 305
PITTSBURGH, PA 15220

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION

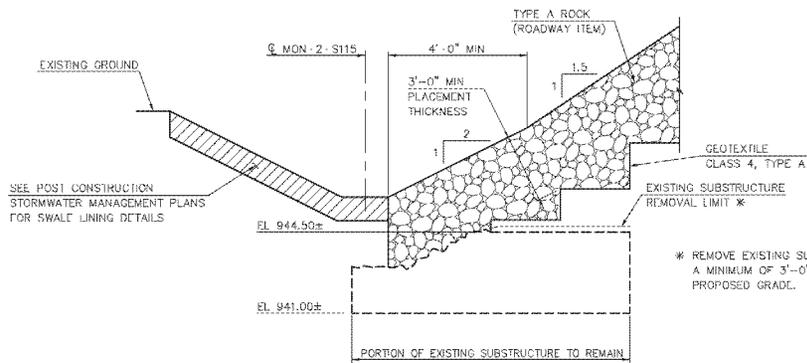


NO.	REVISIONS	DATE	APPR.

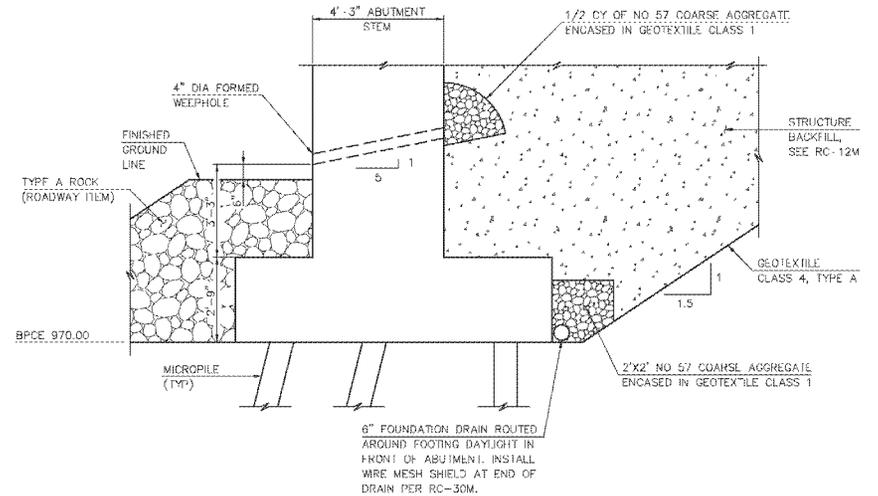
WBS NO. M-052.50X002-3-03
NETWORK NUMBER: 7008401
FILE NAME: 1601STd14
DRAWING TYPE: 2G
STRUCTURE NUMBER: S-40589 (MF-412)
SCALE: AS NOTED

MON/FAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043	
DISTRICT: 1	COUNTY: ALLEGHENY
TOWNSHIP / BOROUGH: DRAVOSBURG BOROUGH	

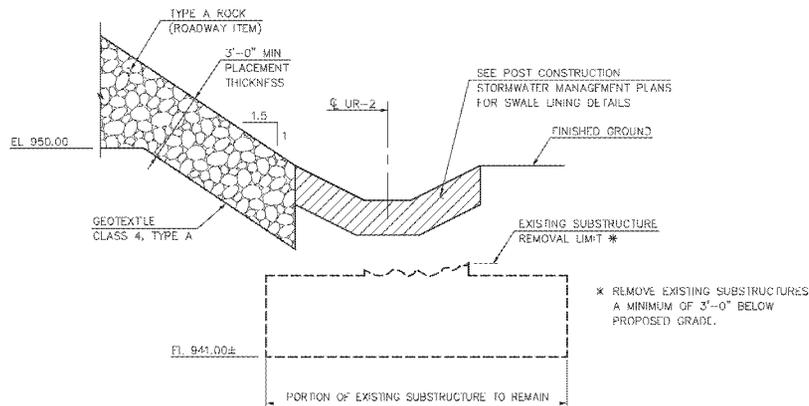
BMS. NO. 02 2045 0030 0841	BRKEY NO. 1599
S.R. 2045 (PITTSBURGH-McKEESPORT BLVD.) OVER UNION RAILROAD STA. 818+40.00 SINGLE SPAN COMPOSITE STEEL PLATE MULTI-GIRDER BRIDGE CONCEPTUAL ABUTMENT ACCESS PLAN SHEET 6 OF 6	
DRAWING: 14	OF 66



**TYPE A ROCK SLOPE
PLACEMENT DETAIL
ABUTMENT 2**
NOT TO SCALE



**ABUTMENT 2
DRAINAGE DETAIL**
1 0 1 2 FEET



**TYPE A ROCK SLOPE
PLACEMENT DETAIL
ABUTMENT 1**
NOT TO SCALE

NOTES:

- FOR ABUTMENT 2 WEEPHOLE LOCATIONS, SEE SHEET 30.
- FOR WATERPROOFING DETAILS, SEE BC-786M.
- FOR BACKFILL DETAILS, SEE RC-12M.

DES: ALB DWG: ALB CKD: DFG

PREPARED BY: PENNDOT
FOSTER PLAZA 6
681 ANDERSON DRIVE, SUITE 305
PITTSBURGH, PA 15220



PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO. M-052.50X002-3-03
NETWORK NUMBER: 7008401
FILE NAME: XBD1ST.dwg
DRAWING TYPE: 2G
STRUCTURE NUMBER: S-40589 (MF-412)
SCALE: AS NOTED

MON/FRAYETTE EXPRESSWAY SECTION 53B1A STATE ROUTE 0043	
DISTRICT: 1	COUNTY: ALLEGHENY
TOWNSHIP / BOROUGH: DRAVOCSBURG BOROUGH	

BMS. NO. 02 2045 0030 0841 BRKEY NO. 1559

**S.R. 2045 (PITTSBURGH-MCKEESPORT BLVD.)
OVER UNION RAILROAD STA. 818+40.00
SINGLE SPAN COMPOSITE STEEL
PLATE MULTI-GIRDER BRIDGE
ROCK PLACEMENT AND DRAINAGE DETAILS**

DRAWING: OF
SHEET: 16 OF 66