

ROUTE 857 OVER MOUNTAIN CREEK DECK REPLACEMENT

DISTRICT 12-0 UNIONTOWN



Pennsylvania
Department of Transportation

SCOPE OF WORK

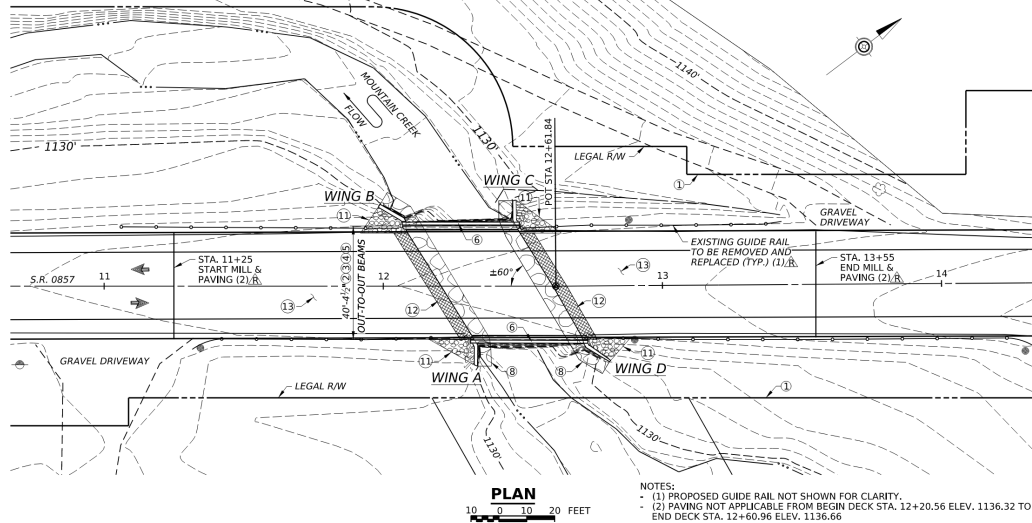
- Concrete bridge deck repairs to top of the prestressed non-composite adjacent box beams
- 5" hybrid composite synthetic concrete (HCSC) deck
- Concrete spall repairs to beams and abutments
- Concrete crack seal repairs to abutments
- Epoxy paint concrete abutments and fascia beams
- Scour protection rock placement at abutments

- Traffic control will consist of a single continuous lane over bridge controlled with traffic signal



PRELIMINARY PLAN

OPERATOR: bgham
FILE NAME: p:\PDC\PRAP\W0_pennstate\Connect_C_projects\0126-Fayette\06M_STR.dgn PI: 0126-Fayette\06M_STR.dgn
PROJECT: 0126-Fayette\06M_STR.dgn
DATE: 17-JAN-2025 09:07

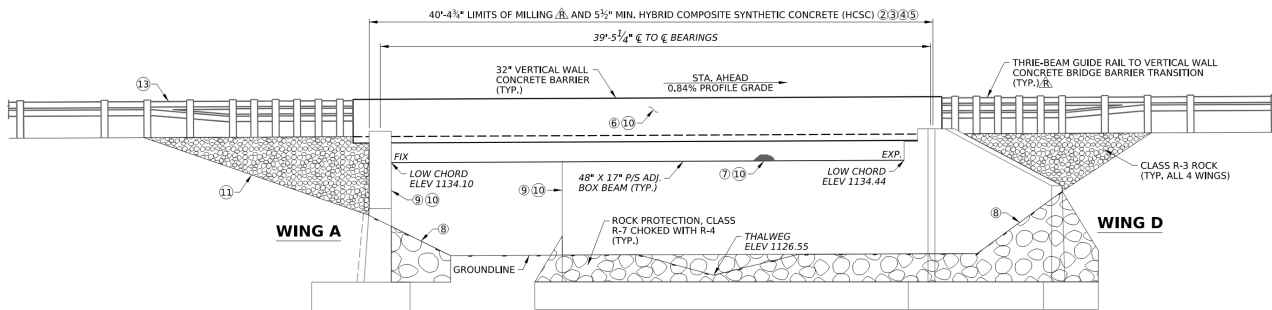


SCOPE OF WORK *

- SET UP MAINTENANCE AND PROTECTION OF TRAFFIC (PHASE CONSTRUCTION SIGNAL CONTROLLED) IN ACCORDANCE WITH THE APPROVED TRAFFIC CONTROL PLAN.
- ① PRIOR TO CONSTRUCTION, PLACE ORANGE CONSTRUCTION FENCING ALONG THE EXISTING RIGHT-OF-WAY LINES. ALL CONSTRUCTION IS WITHIN THE EXISTING RIGHT-OF-WAY.
- ② REMOVE ENTIRE EXISTING VARIABLE DEPTH BITUMINOUS OVERLAY TO THE TOP OF THE EXISTING CONCRETE OVER THE ENTIRE SUPERSTRUCTURE.
- ③ PERFORM TYPE 2 DECK REPAIRS TO TOP OF P/S BEAMS, AS NEEDED OR DIRECTED BY THE ENGINEER.
- ④ INSTALL COMPOSITE REINFORCING BARS IN P/S BEAMS AND PLACE 5/8" MINIMUM REINFORCED HYBRID COMPOSITE SYNTHETIC CONCRETE (HCSC) DECK OVER ENTIRE SUPERSTRUCTURE.
- ⑤ PERFORM LONGITUDINAL TEXTURING BY SAW CUT GROOVING AND DIAMOND GRINDING AFTER PLACEMENT OF HCSC.
- ⑥ REPLACE EXISTING BARRIER WITH NEW VERTICAL WALL BARRIER.
- ⑦ PERFORM P/S CONCRETE BEAM SPALL REPAIRS TO BEAMS 6, 8, AND 10.
- ⑧ REMOVE DEPOSITION UNDER STRUCTURE AND PLACE RIP-RAP PROTECTION AT SUBSTRUCTURE UNITS.
- ⑨ PERFORM TYPE 2A SUBSTRUCTURE UNIT REPAIRS AS SHOWN ON PLAN AND ADDITIONAL AS DIRECTED BY THE ENGINEER.
- ⑩ EPOXY PAINT SUBSTRUCTURE UNITS, VERTICAL WALL BARRIER, AND OUTSIDE FACE OF FASCIA BEAMS.
- ⑪ PLACE GEOTEXTILE, CLASS 4, TYPE A AND R-3 ROCK LINING AT FOUR CORNERS OF BARRIER FOR OFF BRIDGE DRAINAGE.
- ⑫ 5'-0" WIDTH MEMBRANE WATERPROOFING EMBEDDED IN APPROACH PAVEMENT.
- ⑬ MILL AND PAVE APPROACH ROADWAY, INSTALL NEW GUIDE RAIL, AND PAINT LINES.
- REMOVE MAINTENANCE AND PROTECTION OF TRAFFIC AFTER COMPLETION OF WORK.

* NUMBERING OF SCOPE OF WORK IS NOT INTENDED TO BE A SEQUENCE OF WORK.

INDEX OF DRAWINGS	
SHEET	TITLE
1	GENERAL PLAN & ELEVATION
2	GENERAL NOTES
3	QUANTITIES & REBAR SCHEDULE
4	TYPICAL SECTIONS, RATINGS, & GEOMETRY
5	CONSTRUCTION PHASING TYPICAL SECTIONS
6	SUBSTRUCTURE & BEAM CONCRETE REPAIRS
7	COMPOSITE BEAM REBAR PLAN & DETAILS
8	DECK REBAR PLAN, ELEVATION, & DETAILS
9	BARRIER REBAR PLAN & DETAILS
10	ROCK LINING DETAIL



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

S.R. 0857 PREVIOUSLY KNOWN AS L.R. 0857
 BMS STR ID: 26-0857-0140-0000 MPMS/ECMS PROJ: 118886 BRKEY: 16701

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

FAYETTE COUNTY
 S.R. 0857 SECTION 06M
 SEGMENT 140 OFFSET 0000
 S.R. 0857-06M STA. 12+40.76
 OVER MOUNTAIN CREEK
 SINGLE-SPAN, P/S CONCRETE ADJACENT BOX BEAM BRIDGE
 GENERAL PLAN & ELEVATION

HYDRAULIC DATA

DRAINAGE AREA = 6.89 SQ MILES
 DESIGN FLOOD:
 MAGNITUDE = 1137 CFS
 FREQUENCY = 25 YEARS
 VELOCITY = 13.01 FT/S
 PERT. W. S. ELEV. = 1130.98
 100 YR. FLOOD RISK ASSESSMENT:
 MAGNITUDE = 1712 CFS
 VELOCITY = 14.09 FT/S
 W. S. ELEV. = 1132.38
 FLOOD OF RECORD:
 UNKNOWN

LEGEND

- o — o — EXISTING STREAM
- - - - - EXISTING CONTOURS
- - - - - EXISTING DITCH LINE
- — — — — EXISTING UTILITY POLE
- ➔ INDICATES TRAFFIC DIRECTION
- ○ — ○ — EXISTING GUIDE RAIL
- ● — EXISTING SIGN
- ROADWAY ITEM

PREPARED BY:
 PENNSYLVANIA DEPARTMENT
 OF TRANSPORTATION
 ENGINEERING DISTRICT 12-0
 UNIONTOWN, PA. 15401

SIGNATURE _____ DATE _____

DESCRIPTION	NO.	APP. DATE
ANCHOR SYSTEMS	BC-734M	02-19-21
WALL CONSTRUCTION AND EXPANSION JOINT DETAILS	BC-735M	09-30-16
REINFORCEMENT BAR FABRICATION DETAILS	BC-736M	11-23-22
BRIDGE DRAINAGE	BC-751M	01-31-19
CONCRETE DECK SLAB DETAILS	BC-752M	11-23-22
REINFORCED CONCRETE REPAIR	BC-783M	01-31-19
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-788M	11-23-22
CLASSIFICATION OF EARTHWORK FOR STRUCTURES	RC-11M	06-01-10
BACKFILL AT STRUCTURES	RC-12M	11-01-22
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	RC-50M	02-27-23
TYPE 31 STRONG POST GUIDE RAIL	RC-51M	09-01-23
DESCRIPTION	DWG. NO.	APP. DATE

SUPPLEMENTAL DRAWINGS

RECOMMENDED
PRELIMINARY
 BRIDGE ENGINEER

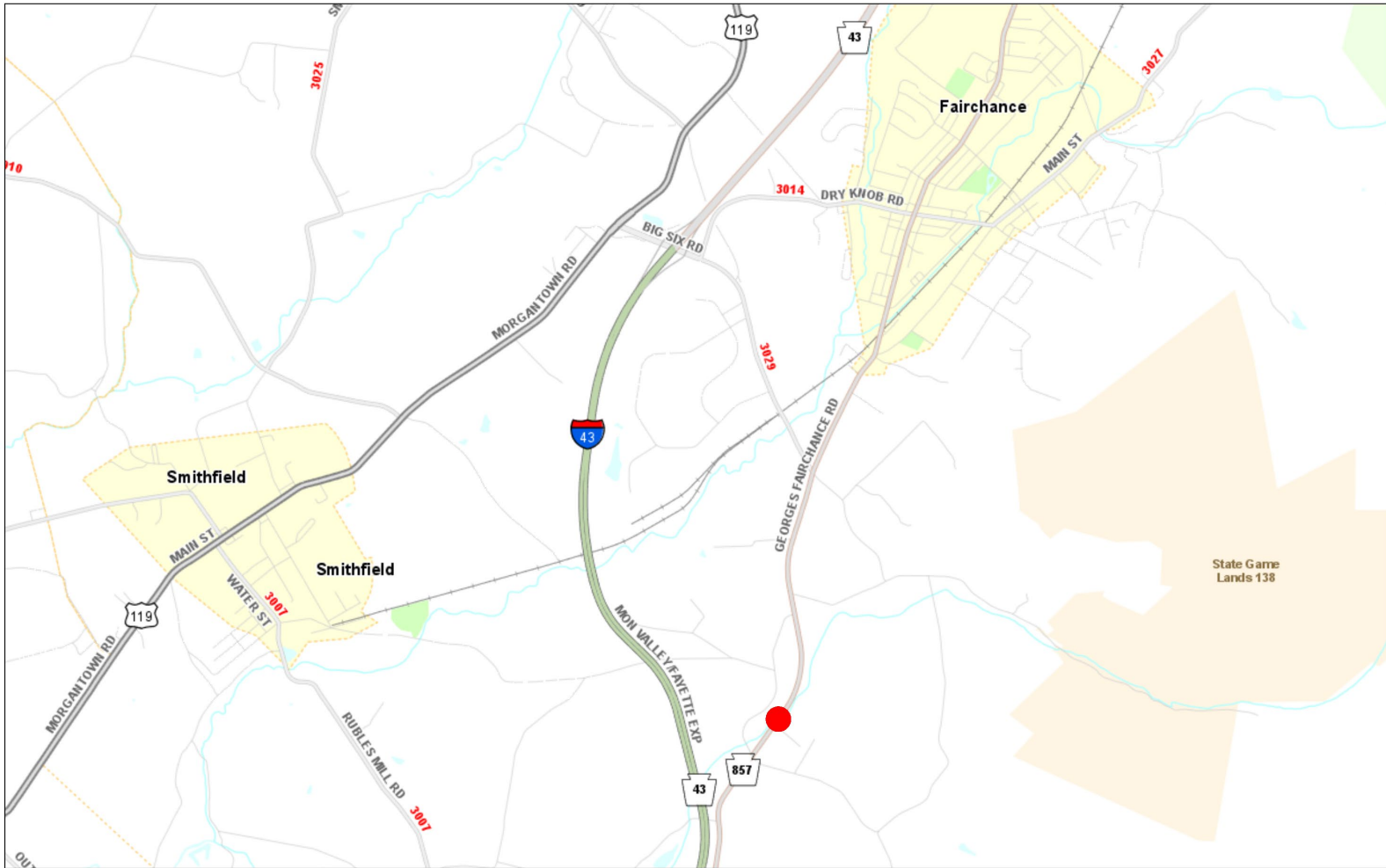
SHEET 1 OF 10

S - 42274

PROJECT LOCATION MAP

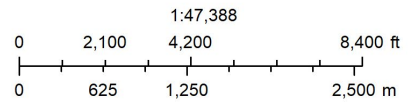


PA 857 over Mountain Creek Deck Replacement



January 24, 2025

 PA 857 over Mountain Creek Deck Replacement (MPMS #118886)



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ROUTE 857 LOOKING SOUTH



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