

| Public Road Dist. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
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| WV | 5 | S319-480-5.64 | BRD-0480 (010)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 103 | 407 |

SIGNING GENERAL NOTES

GOVERNING SPECIFICATIONS:
 THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2000, AS AMENDED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS SUPPLEMENTAL SPECIFICATIONS DATED JANUARY 1, 2003, THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.

CONSTRUCTION LAYOUT STAKES:
 CONSTRUCTION LAYOUT STAKES FOR SIGNING WILL BE INCIDENTAL TO THE CONTRACT AMOUNT BID AND INCLUDED IN THE VARIOUS SIGNING ITEMS.

CORNERS:
 CORNERS OF ALL SHEET ALUMINUM SIGNS SHALL BE ROUNDED; HOWEVER, CORNERS OF ALUMINUM SIGN FACES (EXTRUDED OR OVERLAYS) SHALL NOT BE ROUNDED. FABRICATED SIGNS WITH DIRECT APPLIED COPY (BLUE, GREEN OR BROWN BACKGROUND) SHALL HAVE A 12 INCH CORNER RADIUS ON THE ALUMINUM BLANK.

BOLT TIGHTENING:
 A CALIBRATED DEVICE ACCEPTABLE TO THE ENGINEER SHALL BE PROVIDED BY THE CONTRACTOR TO INSURE THE STIPULATED TORQUE AND/OR TENSION THAT IS SET FORTH BY THE PLANS.

SIGN FABRICATION:
 ALL SIGNS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST EDITION OF THE UNITED STATES DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION "STANDARD HIGHWAY SIGNS". ANY SIGN FABRICATION DETAIL NOT REPRESENTED IN THAT PUBLICATION SHALL BE FABRICATED IN ACCORDANCE WITH THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS "SIGN FABRICATION MANUAL", "DESIGN GUIDE FOR SIGNING", "STANDARD SPECIFICATIONS ROADS AND BRIDGES", LATEST EDITIONS.

SIGN PUNCHING:
 SIGNS 80 INCHES OR MORE IN HEIGHT SHALL HAVE THREE RIBS. THE THIRD RIB SHALL BE MOUNTED ALONG THE HORIZONTAL CENTERLINE AND IN LINE WITH THE OTHER SETS OF HOLES.

REFLECTIVE SHEETING:
 ALL BACKGROUND MATERIAL FOR SIGNS IN THIS PROJECT SHALL BE REFLECTIVE SHEETING TYPE II. TYPE II REFLECTIVE SHEETING SHALL BE REQUIRED IN THIS PROJECT ON SHIELDS FOR GUIDE SIGNS, SEE STANDARD DETAIL TE12-1. ALL SHEETING USED IN THIS PROJECT MUST HAVE SUCCESSFULLY COMPLETED 3 YEARS IN THE AASHTO/TPEP OUTDOOR REFLECTIVE SHEETING PERFORMANCE TESTING PROGRAM.

DEMOUNTABLE COPY AND BORDERS:
 DEMOUNTABLE COPY AND BORDERS SHALL NOT BE POSITIONED ON ANY SIGN FACE BY MEANS OF TAPE OR GLUE. ALL DEMOUNTABLE COPY AND BORDERS SHALL BE ATTACHED TO THE SIGN FACE USING APPROVED RIVETS ONLY. THE FOLLOWING TYPE OF DEMOUNTABLE COPY SHALL BE USED IN THIS PROJECT: COPY FABRICATED FROM 0.080 INCH THICK ALUMINUM SHEETS CONFORMING TO ASTM B 209 ALLOY 6061-T6 OR 5052-H38 MEETING THE REQUIREMENTS OF SECTION 861 AND COVERED WITH TYPE II REFLECTIVE SHEETING CONFORMING TO SECTION 715.9.2.3 OF THE SPECIFICATIONS, LATEST EDITION.

IDENTIFICATION CODES AND DECALS:
 AN IDENTIFICATION CODE SHALL BE PLACED ON ALL SIGNS WITH SCREENED MESSAGES THAT ARE MANUFACTURED FOR THE DIVISION OF HIGHWAYS. THE CODE SHALL CONSIST OF THE LETTERS "WVDH" WITH AN ABBREVIATED FORM OF MONTH AND YEAR OF FABRICATION DIRECTLY BELOW. IT SHALL ALSO INCLUDE AN ABBREVIATED NAME OF THE SHEETING MANUFACTURER AND THE INK MANUFACTURER.
 EXAMPLE: WVDH 3M
 897 A

EACH LINE OF LETTERS OR NUMERALS SHALL BE 1/4 INCH HIGH, NO GREATER THAN 1 INCH IN LENGTH AND OF THE SAME COLOR AS THAT BEING SCREENED. THE CODE SHALL BE PLACED ON THE LOWER RIGHT HAND EDGE OF THE SIGN. IF THE SIGN HAS BOTH BORDER AND MARGIN, THE CODE SHALL BE WITHIN THE BORDER, BUT MAY EXTEND INTO THE MARGIN AND/OR SIGN AREA. IF THE SIGN HAS BORDER ONLY, THE CODE SHALL BE WITHIN THE BORDER, BUT MAY EXTEND INTO THE SIGN AREA. A SIGN IDENTIFICATION DECAL SHALL BE APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN) OF ALL FLAT SHEET SIGNS STATING THE MONTH AND YEAR OF INSTALLATION. EXTRUDED PANEL SIGNS AND FABRICATED FLAT SHEET SIGNS WITH DIRECT APPLIED COPY SHALL HAVE TWO SEPARATE DECALS APPLIED TO THE LOWER RIGHT HAND CORNER (FACING BACK OF SIGN), ONE STATING THE MONTH AND YEAR OF INSTALLATION AND THE OTHER STATING THE MANUFACTURER OF THE SHEETING. SEE "SIGN IDENTIFICATION DECAL" DETAIL, THIS SHEET.

NATIONAL PARK SERVICE SIGNS & SUPPORTS:

NATIONAL PARK SERVICE SIGNS SHALL MEET ALL SPECIFICATIONS OF THE "NATIONAL PARK SERVICE, U.S. DEPARTMENT OF THE INTERIOR, NPS UNIGUIDE STANDARDS, CHAPTER 4, MATERIAL SPECIFICATIONS AND ASSEMBLY DRAWINGS". THE CONTRACTOR IS URGED TO OBTAIN A COPY OF THIS NPS UNIGUIDE STANDARDS FROM THE NATIONAL PARK SERVICE BY CONTACTING MR. TJ STOTTLEMYER AT 301-714-2237

- NPS SIGN DESIGN, FABRICATION AND LOCATION DETAILS FOR THIS PROJECT —
- ARE LOCATED IN "RUMSEY BRIDGE LOCK 38 SIGN PLAN" OF THE CHESAPEAKE —
- AND OHIO CANAL NATIONAL HISTORIC PARK. —

THE NATIONAL PARK SERVICE ARE WORKING ON THIS STANDARD SIGNS AND IT IS ANTICIPATED THESE STANDARDS WILL BE COMPLETED IN 8 TO 9 MONTHS. THE CONTRACTOR IS RESPONSIBLE, PRIOR TO ORDERING OF MATERIALS FOR SIGNS, FOR COORDINATION WITH THE PROJECT ENGINEER AND THE NATIONAL PARK SERVICE FOR LETTERING SIZES, MESSAGES, AND SIGN SIZES. SHOP DRAWINGS WILL THEN BE PREPARED FOR APPROPRIATE APPROVALS.

HARDWARE:
 ON ALL FLAT SHEET SIGNS THE MOUNTING HARDWARE SHALL BE OF A VANDAL-RESISTANT DESIGN. THE FABRICATOR SHALL SUPPLY FIVE (5) PIECES OF MATERIAL TO THE DIVISION OF HIGHWAYS FOR TESTING PRIOR TO THE MANUFACTURE OF SIGNS. THE DIVISION OF HIGHWAYS ALSO RESERVES THE RIGHT TO RANDOM TEST THIS MATERIAL AFTER SHIPMENT TO THE PROJECT.

BOLT: 5/8"x3"x18. BOLT HEAD TO BE ROUND, DOME WITH ONE-WAY SLOT. BOLT SHALL HAVE A 2 INCH MINIMUM THREAD AND BE MANUFACTURED OF STEEL IN ACCORDANCE WITH ASTM A-307.

NUT: CONE SHAPED WITH HEX SHAPED DRIVE HEAD DESIGNED TO SHEAR OFF AT A PREDETERMINED TORQUE OF NO LESS THAN 4FTLBS AND NO GREATER THAN 8FTLBS WHEN USING MATERIALS, CONTROL, SOILS AND TESTING MP NO. 861.20.00. NUT SHALL BE MANUFACTURED OF STEEL IN ACCORDANCE WITH ASTM A-563, GRADE A.

COATING:
 COATING ON BOTH NUT AND BOLT SHALL BE IN ACCORDANCE WITH ASTM B-706, CLASS 8, TYPE 2 (CADMIUM DICHROMATE). THREAD FIT ON NUT AND BOLT SHALL ALLOW WORKERS TO ASSEMBLE HARDWARE WITH THEIR FINGERS BEFORE TIGHTENING.

POST REMOVAL ITEM 667018-001:
 POST REMOVAL FOR GROUND MOUNTED SIGNS ON EXISTING BREAKAWAY SUPPORTS SHALL INCLUDE THE CUTTING OFF OF THE EXISTING STUB(S) TO A MINIMUM OF 6 INCHES BELOW GROUND AND THE RESTORATION OF THE GROUND TO ITS ORIGINAL CONDITION.

BREAKAWAY SUPPORTS S4X7.7:
 ON STANDARD DETAIL TE1-3B DELETE DETAIL "A". ON ALL S-SHAPES THE SAW-CUT SHALL BE CUT THE FULL LENGTH OF THE COLUMN. HINGE PLATES SHALL BE FABRICATED AS SHOWN ON THE "HINGE PLATE DETAIL FOR W-SHAPES" SHOWN ON STANDARD DETAILS TE1-3A AND TE1-3B.

EXTRUDED RIBS:
 EACH FLAT SHEET SIGN ATTACHED TO BREAKAWAY SUPPORTS SHALL HAVE TWO EXTRUDED RIBS PER STANDARD DETAIL TP-A REGARDLESS OF SIGN SIZE, SHAPE, OR NUMBER OF SIGNS IN THE SIGN ASSEMBLY.

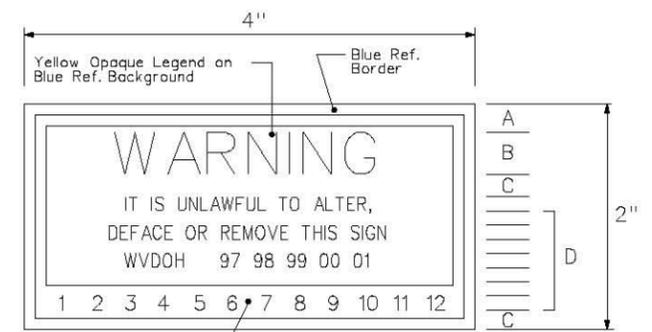
POST CLIPS:
 ALL POST CLIPS SHALL BE PROVIDED WITH A STAINLESS STEEL BOLT WHICH SHALL CONFORM TO STAINLESS STEEL ALLOY 304, ASTM A 193, GRADE B8 OR ASTM A 194, GRADE 8. POST CLIP BOLTS SHALL CONFORM TO THE DIMENSIONS SHOWN ON STANDARD DETAIL TE7-1. HEX LOCK NUTS SHALL CONFORM TO STAINLESS STEEL ALLOY 303, ASTM A 193, GRADE B 8F OR ASTM A 194, GRADE 8F. POST CLIP WASHERS SHALL CONFORM TO STAINLESS STEEL ALLOY 302, ASTM A276. WASHER DIMENSIONS ARE 3/4" DIA. X 0.062" WITH 0.406" DIA. HOLE.

PAVEMENT MARKINGS
 1. ITEM 663001-004, "EDGE LINE", SHALL INCLUDE 4" SOLID WHITE AND YELLOW EDGE LINE ON MAIN LINE FREEWAY/EXPRESSWAY AND RAMP. IT SHALL ALSO INCLUDE 8" SOLID WHITE EDGE LINES, 4" DOTTED WHITE EDGE LINES AND 4" BROKEN WHITE EDGE LINES AT GORE AREAS.
 2. ALL 4" SOLID WHITE OR SOLID YELLOW EDGE LINES, LANE LINES, CENTERLINES AND BARRIER LINES SHALL BE TYPE II PAVEMENT MARKING MATERIAL.
 3. EDGE LINES SHALL BE CENTERED 6" FROM EDGE OF LANE AS APPLICABLE.
 4. ALL MARKINGS SHALL BE CONTINUOUS AND CONSISTENT WITH EXISTING MARKINGS WHERE THEY JOIN.
 5. NO MARKINGS SHALL BE PLACED ON EXPANSION JOINTS OR STRUCTURES OR ON LONGITUDINAL CONSTRUCTION JOINTS UNLESS SO DIRECTED BY THE ENGINEER.

MISCELLANEOUS SIGNS:
 THE CONTRACTOR SHALL RELOCATE STREET NAME SIGNS, MISCELLANEOUS SIGNS AND HISTORICAL MARKERS WITHIN THE CONSTRUCTION LIMITS THAT CONFLICT WITH CONSTRUCTION WORK AS DIRECTED BY THE ENGINEER. SIGNS THAT ARE NOT NEEDED FOR THE SAFE AND ORDERLY CONTROL OF TRAFFIC DURING CONSTRUCTION, AS DETERMINED BY THE ENGINEER, SHALL BE COVERED OR REMOVED BY THE CONTRACTOR. THE REMOVED SIGNS SHALL BE STORED ABOVE GROUND IN A MANNER THAT WILL PRECLUDE DAMAGE AND SHALL BE REINSTALLED IN THEIR PERMANENT LOCATIONS. ANY SIGN THAT IS DAMAGED OR LOST DUE TO ACTION OF THE CONTRACTOR SHALL BE REPAIRED AT HIS EXPENSE. NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE. COSTS SHALL BE INCIDENTAL TO ITEM 201001-000, CLEARING & GRUBBING.

SIGN IDENTIFICATION DECAL

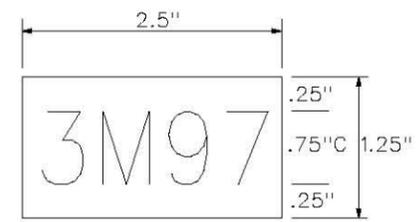
NOT TO SCALE



| LETTER | DIM. |
|--------|-------|
| A | 1/4" |
| B | 3/8" |
| C | 3/16" |
| D | 1/8" |

Blue Ref. Legend on Yellow Opaque Background

DECALS FOR FLAT SHEET AND EXTRUDED PANEL SIGNS WILL BE PROVIDED BY THE SIGN FABRICATOR. THE YEAR AND MONTH OF INSTALLATION ARE TO BE PUNCHED OUT BY THE CONTRACTOR. SEE SIGNING GENERAL NOTES.



BLACK NON. REF. LEGEND, NO BORDER
 WHITE REF. SHEETING BACKGROUND

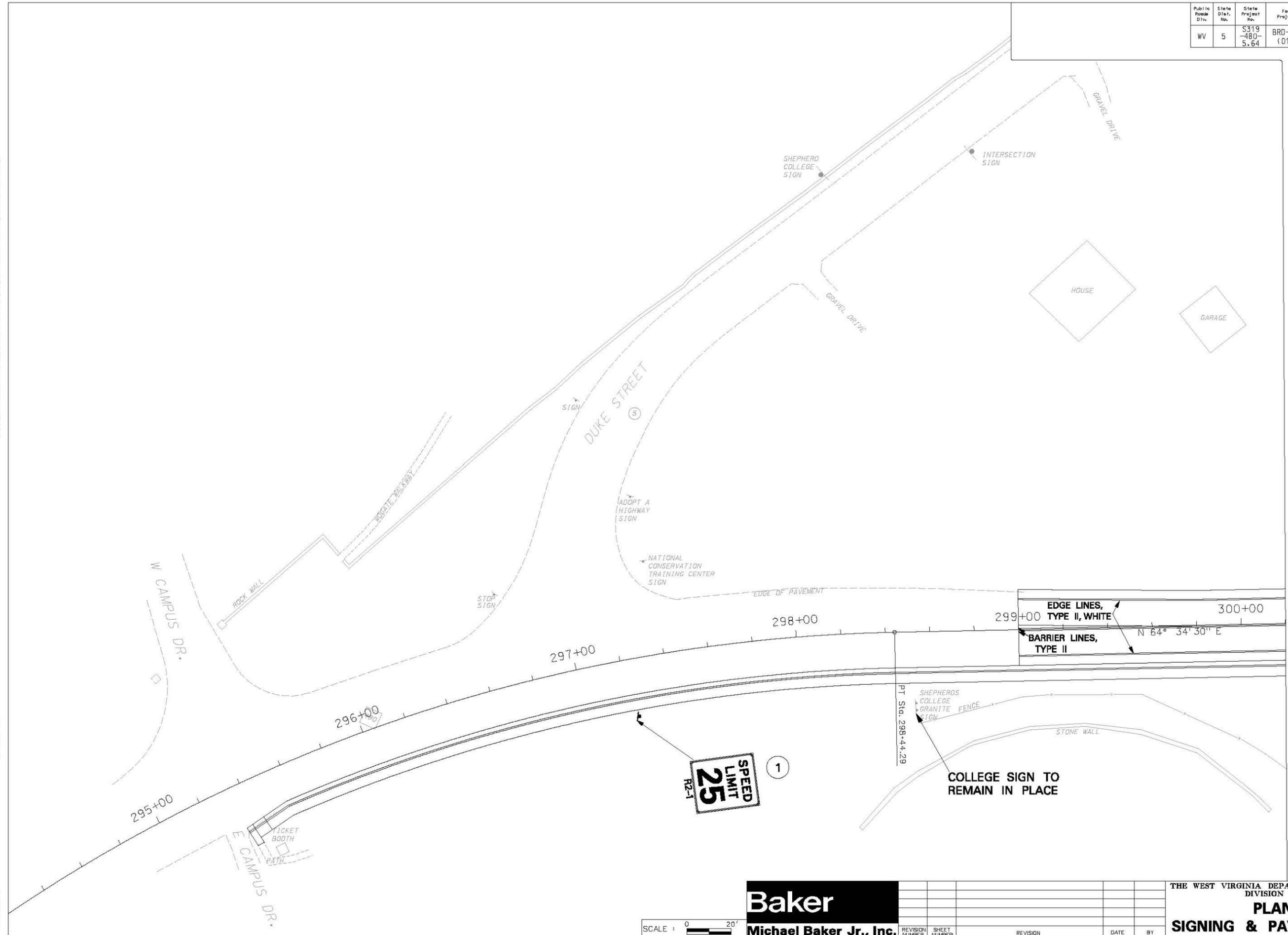
| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
|-----------------|--------------|----------------------|---------|------|
| 103 | | NOTE CHANGED | 3/19/03 | N.B. |
| 103 | | NOTE CHANGED / ADDED | 2/19/03 | N.B. |
| 103 | | NOTE DELETED | 1/03/03 | N.B. |

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SEE SHEET NUMBER S-05
MATCH LINE STATION 300+20

S-04

SCALE : 0 20'

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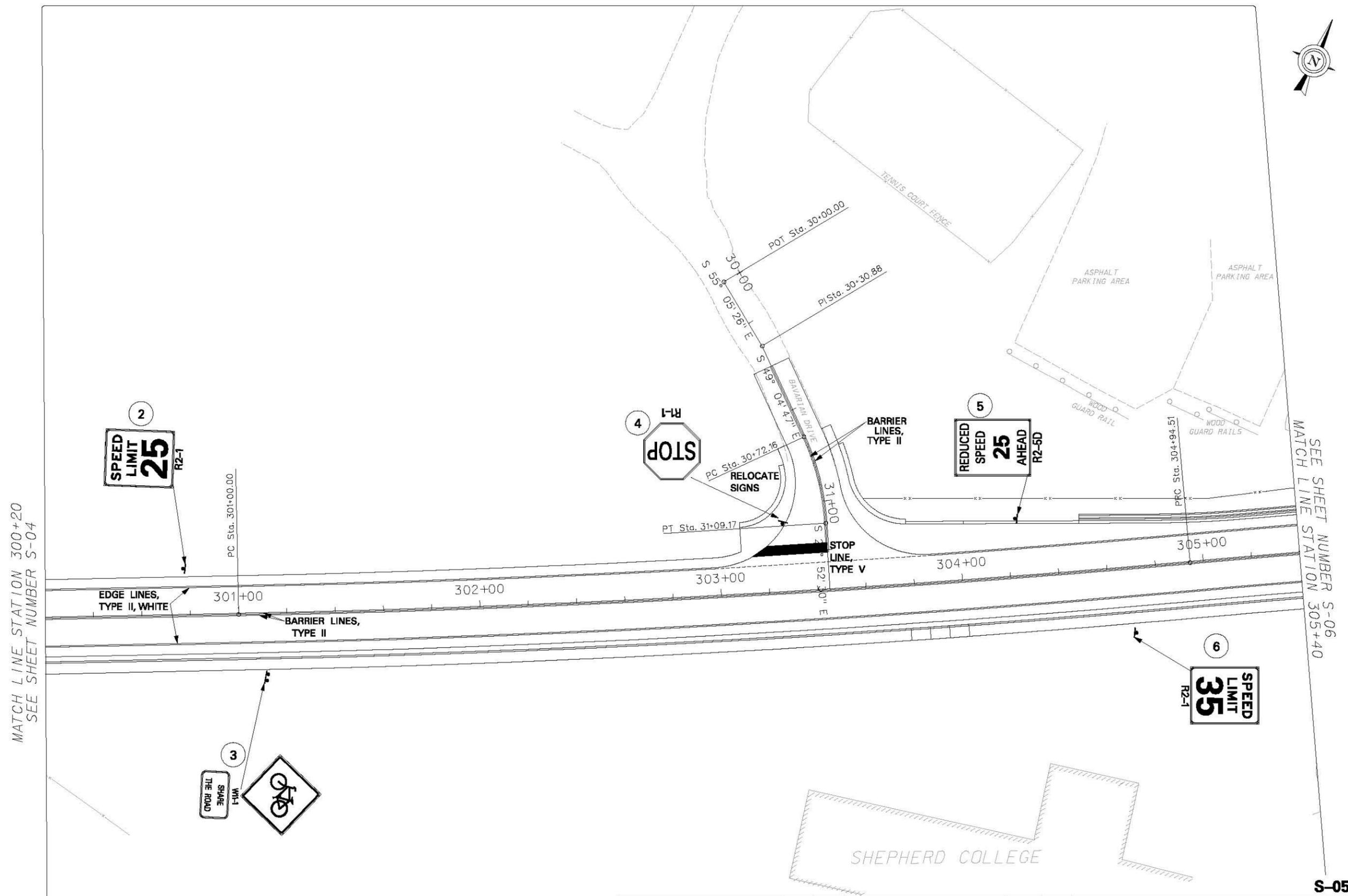
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN VIEW
SIGNING & PAVEMENT MARKING

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MATCH LINE STATION 300+20
SEE SHEET NUMBER S-04

SEE SHEET NUMBER S-06
MATCH LINE STATION 305+40

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SCALE : 0 20'

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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S-05

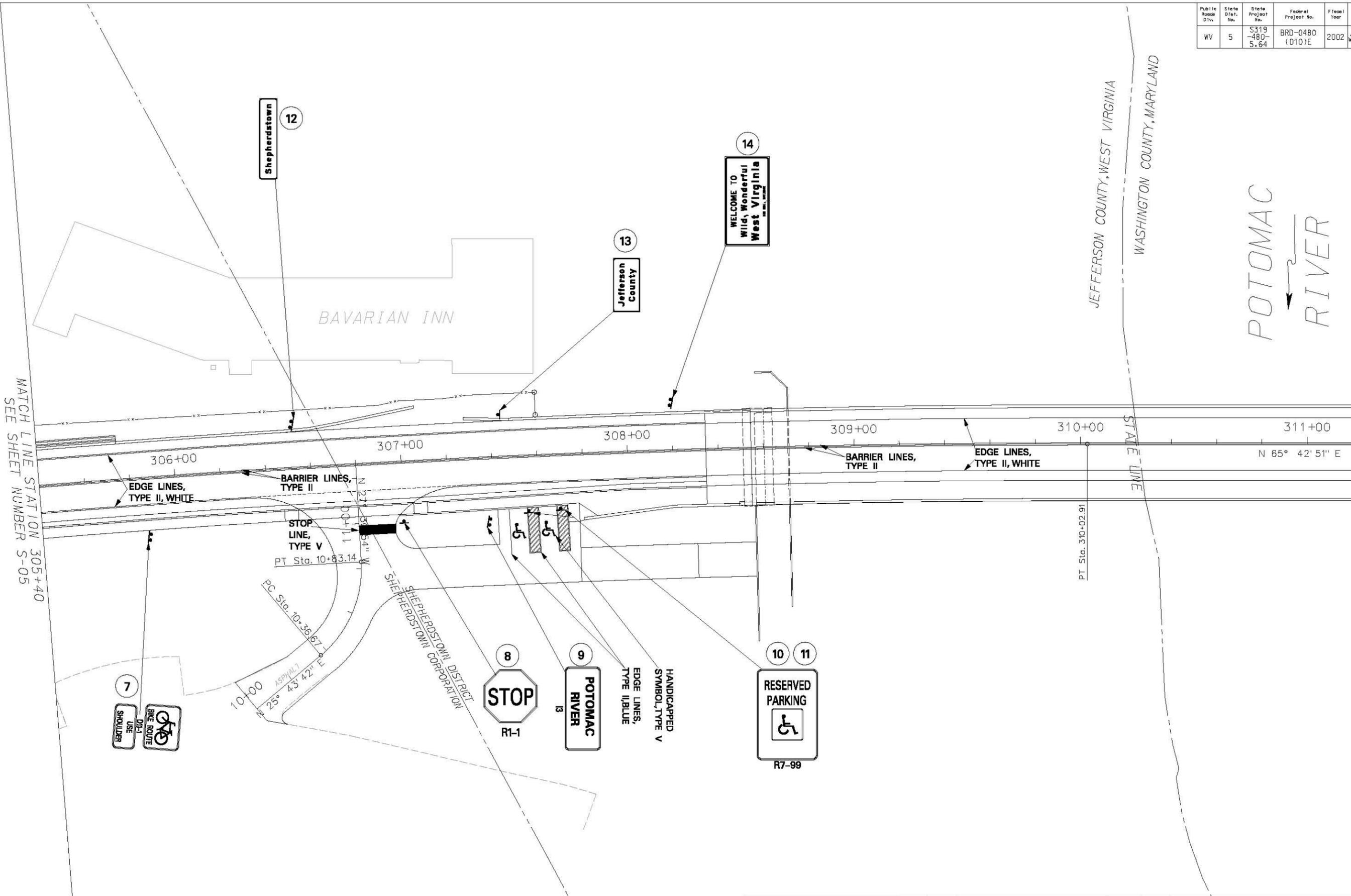
| Public Road Dist. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
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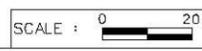
MATCH LINE STATION 305+40
SEE SHEET NUMBER S-05

BRIDGE SECTION NOT SHOWN
STATIONS 311+20 TO 317+20

S-06

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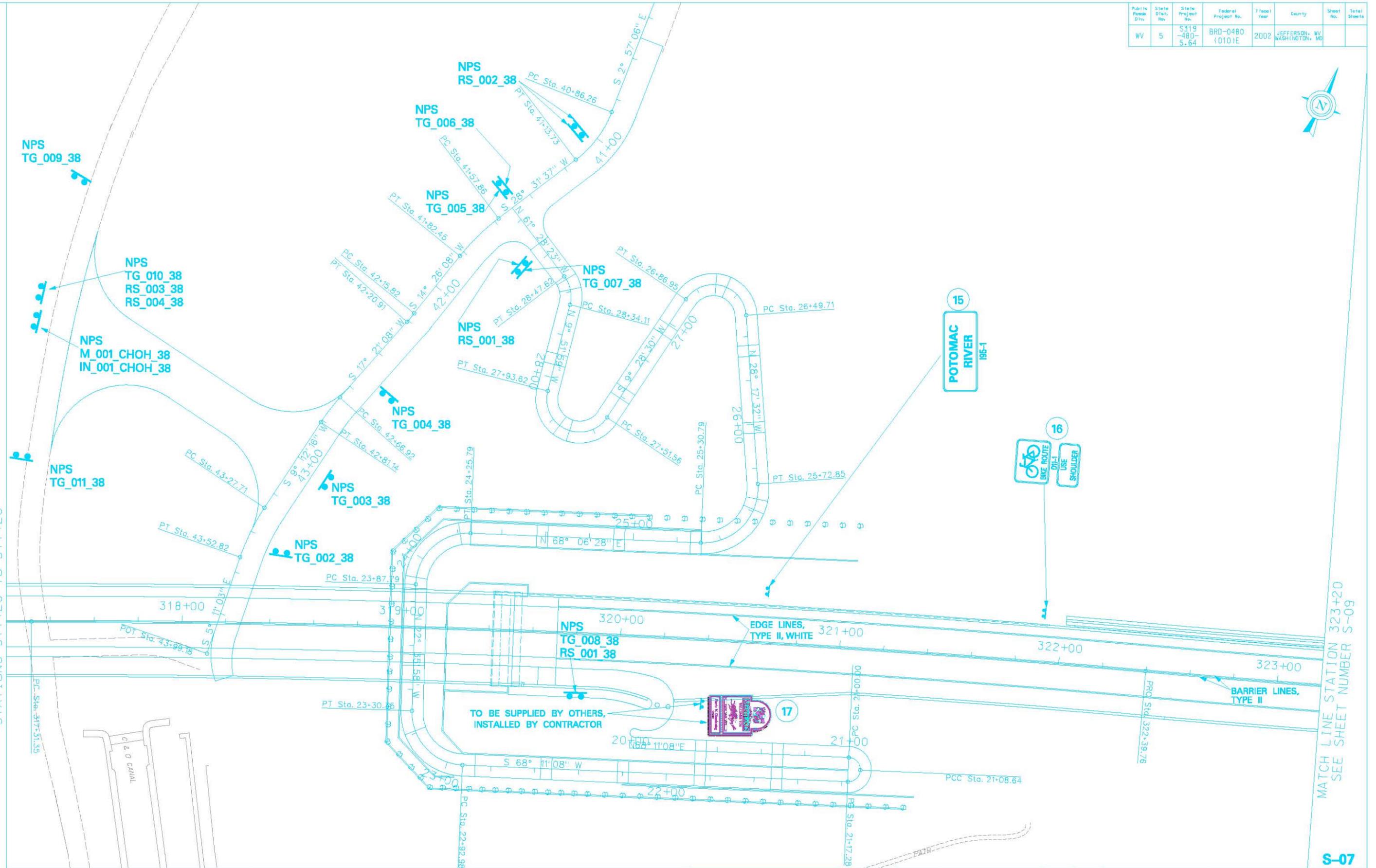


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BRIDGE SECTION NOT SHOWN
STATIONS 311+20 TO 317+20



MATCH LINE SEE SHEET NO. S-08

MATCH LINE STATION 323+20
SEE SHEET NUMBER S-09

S-07

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SCALE : 0 20'

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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PLAN VIEW
SIGNING & PAVEMENT MARKING

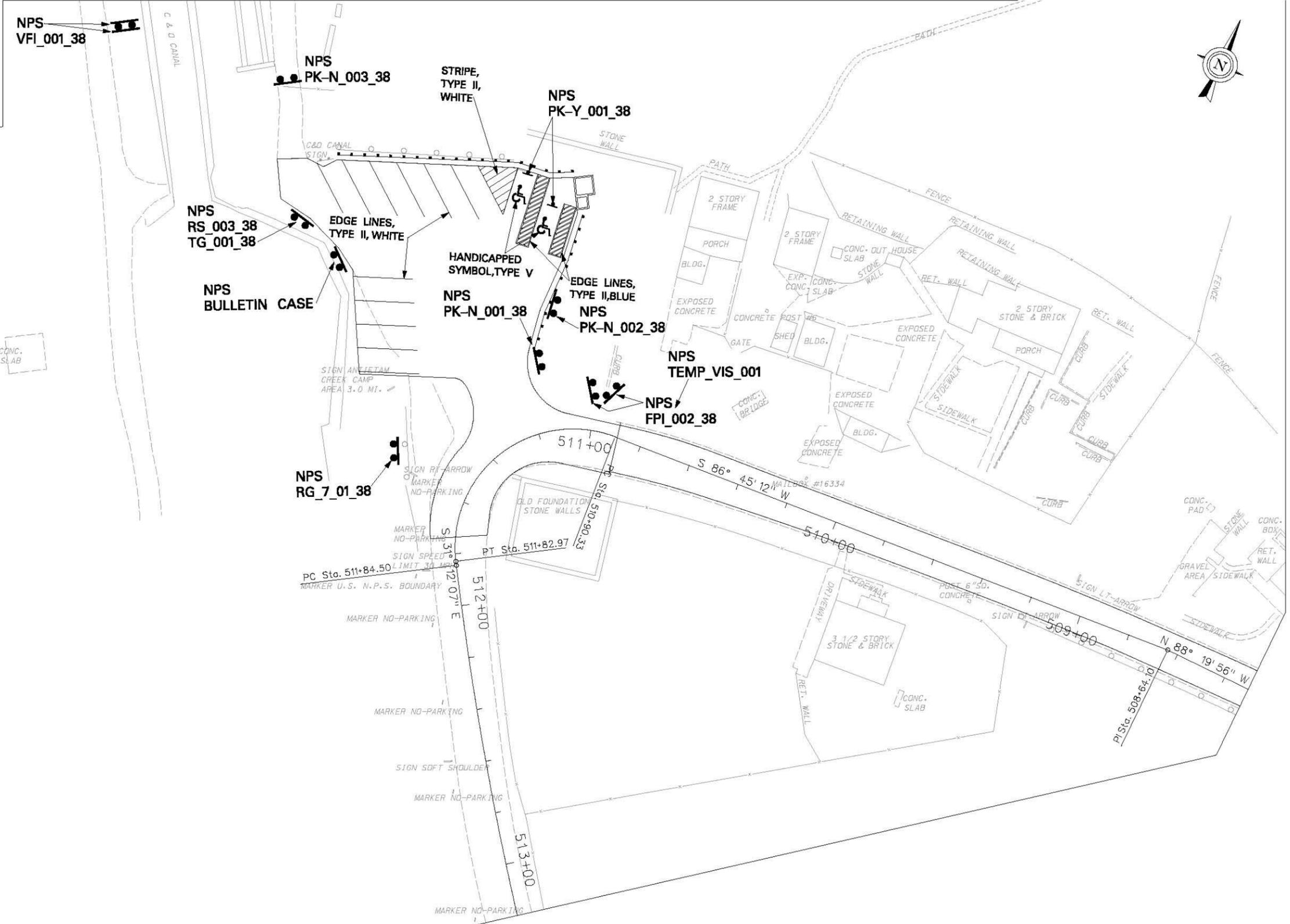
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MATCH LINE SEE SHEET NUMBER S-07

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S-08

SCALE : 0 20'

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN VIEW
SIGNING & PAVEMENT MARKING

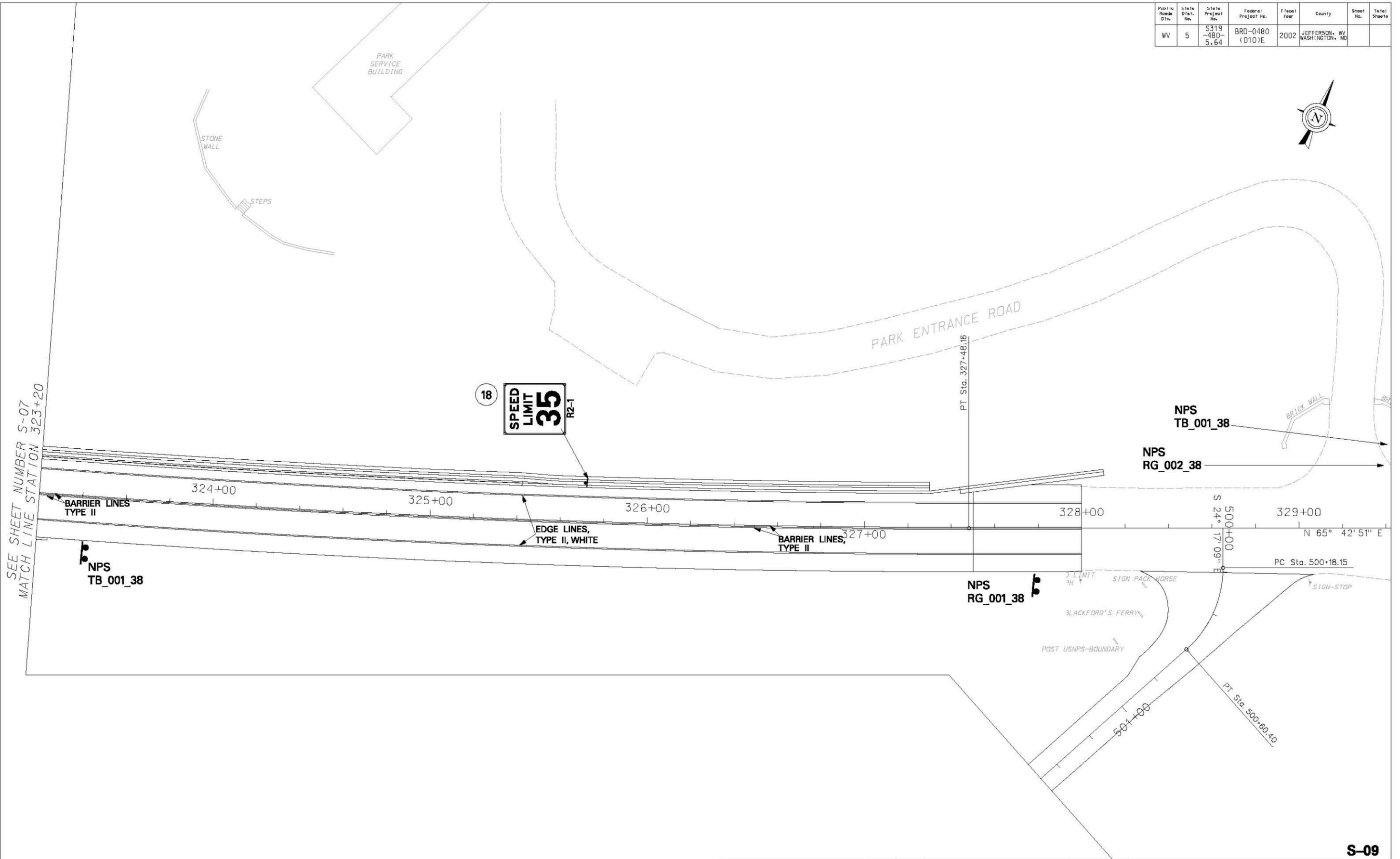
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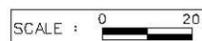
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SEE SHEET NUMBER S-07
MATCH LINE STATION 323+20

S-09



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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
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TRAFFIC REGULATORY SIGN Section 4.5
PK-N_003_38 No Parking Authorized Vehicles Only
 15cm x 30cm

Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (8081-T6 alloy)



TRAFFIC REGULATORY SIGN Section 4.5
PK-Y_001_38 Handicap Parking
 15cm x 30cm

Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (8081-T6 alloy)



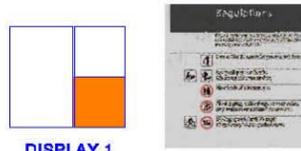
VISITOR INFORMATION SYSTEM Section 4.2
TG_001_38 C&O Canal Towpath Ferry Hill Rumsey Scenic Over Look
 60cm x 60cm

Mounting Height: 120cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 97" [Display1 (2) Posts]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



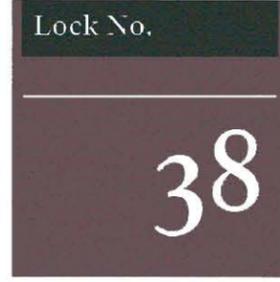
VISITOR INFORMATION SYSTEM Section 4.2
RS_003_38 Lock 38
 60cm x 60cm

Mounting Height: 80cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display1 (2) Posts]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
VFI_001_38 Lock 38
 60cm x 60cm

Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 97" (2)
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
TEMP_VIS_001_38 Parking area temporarily closed Parking is closed (with directional arrow)
 90cm x 90cm

Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" (2)
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
FPI_002_38 LOCK 38..CHOH, DOI, NPS Park Entrance Sign
 120cm x 60cm

Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 97" (2)
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



ROAD GUIDE SIGN Section 4.4
RG_7_01_38 Parking / Antietam Area
 48" x 40"

Mounting Height: 5' (from ground to bottom of sign panel)
 Post Dimensions: 4" x 6" Post Length: 148" (2)
 Post Material: Douglas Fur (see 4.4-3)
 Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)



TRAFFIC REGULATORY SIGN Section 4.5
PK-N_001_38 No Parking
 15cm x 30cm

Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (8081-T6 alloy)



TRAFFIC REGULATORY SIGN Section 4.5
PK-N_002_38 No Parking
 15cm x 30cm

Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (8081-T6 alloy)



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| 112A | | SHEET REVISED | 1/03/03 | N.B. |

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VISITOR INFORMATION SYSTEM Section 4.2
TG_002_38 Towpath
15cm x 30cm Ferry Hill
 Scenic Overlook
 Shepherdstown

Mounting Height: 75cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1)
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
TG_003_38 Scenic Overlook
60cm x 60cm Ferry Hill
 Shepherdstown

Mounting Height: 90cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 3" x 1/8" Post Length: 110" (2)
Post Material: Tubular Steel (see 4.2-4)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
TG_004_38
15cm x 30cm Towpath
 Lock 38

Mounting Height: 75cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1)
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)



VISITOR INFORMATION SYSTEM Section 4.2
TG_005_38 Scenic Overlook
15cm x 30cm Ferry Hill
 Shepherdstown

Mounting Height: 75cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1) [Same as TG_006_38]
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)

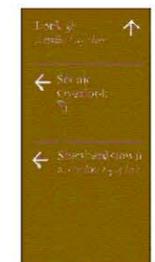
Note: Back to Back mounting with TG_006_38



VISITOR INFORMATION SYSTEM Section 4.2
TG_006_38 Lock 38
15cm x 30cm Scenic Overlook
 Shepherdstown

Mounting Height: 75cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1) [Same as TG_005_38]
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)

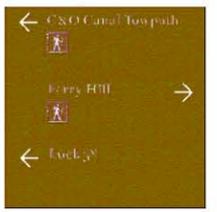
Note: Back to Back mounting with TG_005_38



VISITOR INFORMATION SYSTEM Section 4.2
TG_007_38 C&O Canal Towpath
60cm x 60cm Ferry Hill

Mounting Height: 90cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 3" x 1/8" Post Length: 97" (2) [Same as RS_001_38]
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)

Note: Back to Back mounting with RS_001_38



VISITOR INFORMATION SYSTEM Section 4.2
TG_008_38 Towpath
45cm x 45cm Ferry Hill
 Lock 38

Mounting Height: 90cm (from ground to bottom of sign panel)
Post Dimensions: N/A Wall Mount Post Length: N/A
Post Material:
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)
Note: This sign will have a wall mounting assembly (See 4.2-113)



VISITOR INFORMATION SYSTEM Section 4.2
TG_009_38 Lock 38
15cm x 30cm Scenic Overlook
 Ferry Hill
 Shepherdstown

Mounting Height: 75cm (from ground to bottom of sign panel)
Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1)
Post Material: Tubular Steel (see 4.5-1)
Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)



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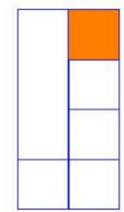
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03/31/2003

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
|-----------------|--------------|---------------|---------|------|
| 112B | | SHEET REVISED | 1/03/03 | N.B. |

| Public Road Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
|------------------|-----------------|-------------------|---------------------|-------------|------------------------------|-----------|--------------|
| WV | 5 | S319-480-5.64 | BRD-0480 (010)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 112C | 407 |

VISITOR INFORMATION SYSTEM Section 4.2
TG_010_38 Antietam Aqueduct
30cm x 30cm Snyders Landing




Mounting Height: 150cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 2 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

DISPLAY 2

VISITOR INFORMATION SYSTEM Section 4.2
TG_011_38 Snyders Landing
15cm x 30cm Scenic Overlook
Ferry Hill
Shepherdstown




Mounting Height: 75cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 75" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)

VISITOR INFORMATION SYSTEM Section 4.2
RS_001_38 Overlook Trail Rules
60cm x 60cm
45cm x 45cm




Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 97" (2) [Same as TG_007_38]
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Note: Back to Back mounting with TG_007_38

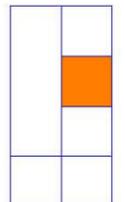
Note: The 45x45 sign will have a wall mounting assembly with (TG_008_38) assembly (See 4.2-113)

VISITOR INFORMATION SYSTEM Section 4.2
RS_002_38 Ferry Hill Trail Rules
60cm x 60cm




Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 97" (2)
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

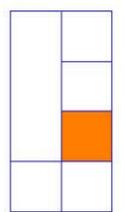
VISITOR INFORMATION SYSTEM Section 4.2
RS_003_38 Park Regulations
30cm x 30cm




Mounting Height: 120cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 2 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

DISPLAY 2

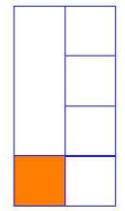
VISITOR INFORMATION SYSTEM Section 4.2
RS_004_38 Biking Regulations
30cm x 30cm




Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 2 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

DISPLAY 2

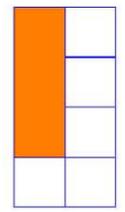
VISITOR INFORMATION SYSTEM Section 4.2
IN_001CHOH_38 Facilities by mile post
30cm x 30cm




Mounting Height: 60cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 2 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

DISPLAY 2

VISITOR INFORMATION SYSTEM Section 4.2
M_001_CHOH_38 Map of CHOH
30cm x 90cm




Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 2 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)

DISPLAY 2

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|-----------------|------|--------------|---------------|---------|------|
| REVISION NUMBER | 112C | SHEET NUMBER | SHEET REVISED | 1/03/03 | N.B. |
| | | | REVISION | DATE | BY |

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|------------------|-----------------|-------------------|---------------------|-------------|------------------------------|-----------|--------------|
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ROAD GUIDE SIGN Section 4.4
RG_005_38
 48" x 32"
 Mounting Height: 5' (from ground to bottom of sign panel)
 Post Dimensions: 4" x 6" Post Length: 140" (2)
 Post Material: Douglas Fur (see 4.4-3)
 Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)



ROAD GUIDE SIGN Section 4.4
RG_006_38
 48" x 32"
 Mounting Height: 5' (from ground to bottom of sign panel)
 Post Dimensions: 4" x 6" Post Length: 140" (2)
 Post Material: Douglas Fur (see 4.4-3)
 Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)



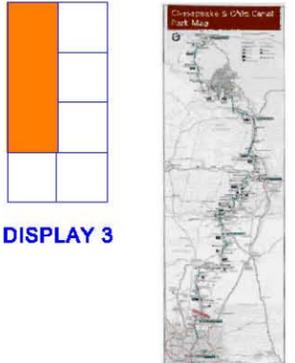
TRAFFIC REGULATORY SIGN Section 4.5
PED_XING_38
 60cm x 60cm
 Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (6061-T8 alloy)



TRAFFIC REGULATORY SIGN Section 4.5
PK-Y_001_38 Handicap Parking
 22.5cm x 45cm
 Mounting Height: 7' (from ground to bottom of sign panel)
 Post Dimensions: 2" x 2" x 1/8" Post Length: 132" (1)
 Post Material: Tubular Steel (see 4.5-1)
 Sign Panel Material: 0.125" aluminum (6061-T8 alloy)

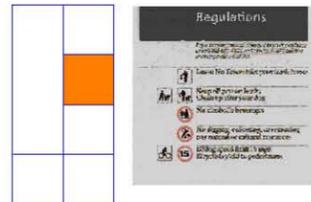


VISITOR INFORMATION SYSTEM Section 4.2
M_001_CHOH_38 Map of CHOH
 30cm x 90cm
 Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 3 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



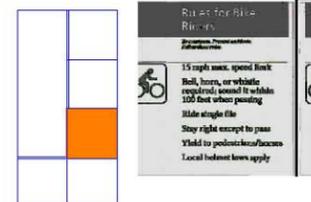
DISPLAY 3

VISITOR INFORMATION SYSTEM Section 4.2
RS_003_38 Lock 38
 30cm x 30cm
 Mounting Height: 120cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 3 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



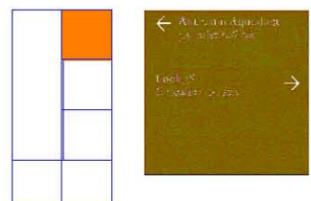
DISPLAY 3

VISITOR INFORMATION SYSTEM Section 4.2
RS_004_38 Biking Regulations
 30cm x 30cm
 Mounting Height: 90cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 3 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



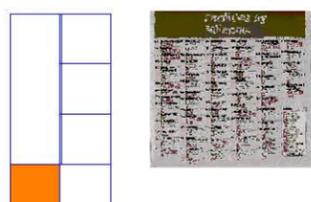
DISPLAY 3

VISITOR INFORMATION SYSTEM Section 4.2
TG_012_38 Antietam Aqueduct
 30cm x 30cm Lock 38
 Mounting Height: 150cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 3 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



DISPLAY 3

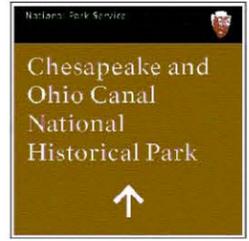
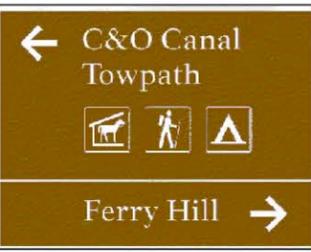
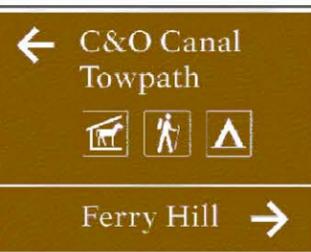
VISITOR INFORMATION SYSTEM Section 4.2
IN_001CHOH_38 Facilities by mile post
 30cm x 30cm
 Mounting Height: 60cm (from ground to bottom of sign panel)
 Post Dimensions: 2" x 3" x 1/8" Post Length: 110" [Display 3 (2)]
 Post Material: Tubular Steel (see 4.2-4)
 Sign Panel Material: 0.080" sheet aluminum (2024 -T3 or 7075-T3)
 Core Panel: .125" sheet aluminum (2024 -T3 or 7075-T3)



DISPLAY 3

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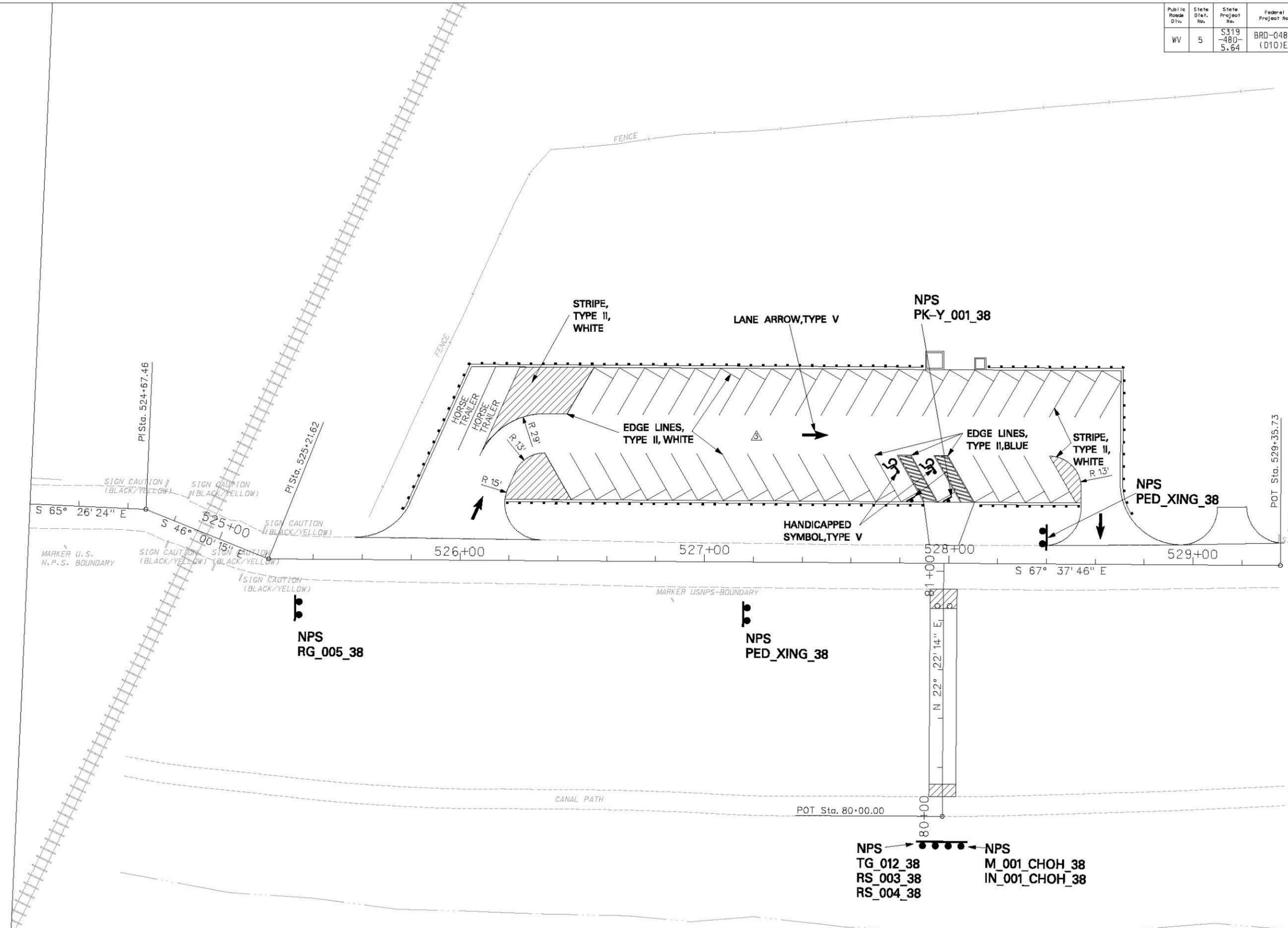
| Public Road Dist. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|------------------------------|-----------|--------------|
| WV | 5 | S319-480-5.64 | BRD-0480 (010)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 112E | 407 |

| | |
|---|--|
| <p>ROAD GUIDE SIGN Section 4.4 TB_001_38 56" x 56" Mounting Height: 7' (from ground to bottom of sign panel) Post Dimensions: 4" x 6" Post Length: 190" (2) Post Material: Douglas Fur (see 4.4-3) Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)</p> |  |
| <p>ROAD GUIDE SIGN Section 4.4 RG_002_38 80" x 48" Mounting Height: 7' (from ground to bottom of sign panel) Post Dimensions: 4" x 6" Post Length: 180" (2) Post Material: Douglas Fur (see 4.4-3) Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)</p> |  |
| <p>ROAD GUIDE SIGN Section 4.4 RG_001_38 80" x 48" Mounting Height: 7' (from ground to bottom of sign panel) Post Dimensions: 4" x 6" Post Length: 180" (2) Post Material: Douglas Fur (see 4.4-3) Sign Panel Material: 10mm Thick Alumilite Panel (See 4.4-3)</p> |  |

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| REVISION NUMBER | 112E | SHEET NUMBER | SHEET REVISED | 1/03/03 | N.B. |
| REVISION | | DATE | BY | | |

| Public Road Dist. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|------------------------------|-----------|--------------|
| WV | 5 | S319-480-5.64 | BRD-0480(010)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 112 | 407 |



POTOMAC RIVER →

S-10

Baker
Michael Baker Jr., Inc.

SCALE : 0 20'

| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY |
|-----------------|--------------|----------------------------|---------|------|
| 112 | 112 | PARKING LOT LAYOUT CHANGED | 1/20/03 | N.B. |

THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAN VIEW
SIGNING & PAVEMENT MARKING

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| Publ'd Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
|-------------------|-----------------|-------------------|---------------------|-------------|------------------------------|-----------|--------------|
| WV | 5 | S319-480-5.64.03 | BRD-D480 (D10)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 113 | 407 |

SUMMARY OF QUANTITIES

| ITEM NO. | ALTERNATE | DESCRIPTION | QUANTITY | |
|------------|-----------|-----------------------------------|----------|-------|
| | | | UNIT | TOTAL |
| 662002-001 | | GALVANIZED STEEL CONDUIT, 01 | L.S. | 1 |
| 662006-001 | | JUNCTION BOX, TYPE B | EACH | 18 |
| 662006-001 | | JUNCTION BOX, TYPE H, 18" X 18" | EACH | 5 |
| 662070-001 | | LUMINAIRE, 100W (BRIDGE) | EACH | 18 |
| 662007-001 | | LUMINAIRE, 250W (PARKING LOT) | EACH | 3 |
| 662008-001 | | CABLE, 01 | L.S. | 1 |
| 662010-004 | | LIGHTING SUPPORT, TYPE IV (40-15) | EACH | 3 |
| 662010-001 | | LIGHTING SUPPORT, TYPE VII (14-0) | EACH | 18 |
| 662013-001 | | SERVICE AND CONTROL STATION, 01 | L.S. | 1 |
| 662014-001 | | INCIDENTAL ELECTRICAL WORK | L.S. | 1 |
| 662015-001 | | ELECTRICAL TEST, 01 | L.S. | 1 |

CIRCUIT AND LUMINAIRE NUMBER

| POLE NO. | STATION | OFFSET | POLE TYPE | LUMINAIRE TYPE | CIRCUIT I.D. | BASE TYPE |
|----------|----------------------|--------|-----------|----------------|--------------|-----------|
| | WV RT. 480 MD RT. 34 | | | | | |
| 1 | 308+80 | (A) | *VII | *II (REG2) | A1 | *ANCHOR |
| 2 | 309+41 | | | | A2 | |
| 3 | 310+02 | | | | A3 | |
| 4 | 310+63 | | | | A4 | |
| 5 | 311+24 | | | | A5 | |
| 6 | 311+85 | | | | A6 | |
| 7 | 312+46 | | | | A7 | |
| 8 | 313+07 | | | | A8 | |
| 9 | 313+68 | | | | A9 | |
| 10 | 314+29 | | | | A10 | |
| 11 | 314+90 | | | | A11 | |
| 12 | 315+51 | | | | A12 | |
| 13 | 316+12 | | | | A13 | |
| 14 | 316+73 | | | | A14 | |
| 15 | 317+34 | | | | A15 | |
| 16 | 317+95 | | | | A16 | |
| 17 | 318+56 | | | | A17 | |
| 18 | 319+17 | ↓ | ↓ | ↓ | A18 | ↓ |
| | C & O CANAL ROAD | | | | | |
| 19 | 511+05 | 5'-0" | IV | MS III | B1 | WOOD POLE |
| 20 | 526+66 | 5'-0" | | | C1 | |
| 21 | 528+08 | 5'-0" | ↓ | ↓ | C2 | ↓ |

(A) LIGHT POLES MOUNTED ON BRIDGE CONCRETE WALL BLISTERS, ADJACENT TO PEDESTRIAN WALKWAY

* SEE BRIDGE LIGHTING NOTES AND DETAILS ON SHEET L5

LEGEND

- ⊗ 100 WATT HPS BRIDGE LUMINAIRE WITH I.E.S. TYPE II DISTRIBUTION MOUNTED ON ORNAMENTAL METAL POLE AT 14'-0" M.H.
- LIGHTING SUPPORT, (TYPE IV) I.E.S. TYPE III 250 WATT HPS LUMINAIRE WITH INTEGRAL PHOTOCELL, AT 40'-0" MTG. HT. (PARKING LOT LIGHTING)
- 2" GALVANIZED STEEL CONDUIT WITH LIGHTING CIRCUIT FEEDERS (UNLESS OTHERWISE INDICATED)
- ┆----- 2" GALVANIZED STEEL CONDUIT, STUB-UP FOR FUTURE USE
- ===== 1 1/2" CONDUIT IN BRIDGE BARRIER WALL WITH LIGHTING CIRCUIT FEEDERS
- ⊠ JUNCTION BOX TYPE H, 18" X 18"
- JUNCTION BOX TYPE B MODIFIED, (INSTALLED IN BRIDGE CONCRETE WALL)
- GROUND MOUNTED SERVICE AND CONTROL STATION
- ⊞ POLE MOUNTED SERVICE AND CONTROL STATION
- ⊕ EMERGENCY TELEPHONE UNIT (INSTALLED BY OTHERS)

LUMINAIRE/POLE IDENTIFICATION



GOVERNING SPECIFICATIONS

- THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, STANDARD SPECIFICATIONS ROADS AND BRIDGES, ADOPTED 2000, AS AMENDED BY THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, SUPPLEMENTAL SPECIFICATIONS, DATED JULY 1, 2001. THE CONTRACT DOCUMENTS AND THE CONTRACT PLANS ARE THE GOVERNING PROVISIONS APPLICABLE TO THIS PROJECT.
- NATIONAL ELECTRICAL CODE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS AND ELECTRIC WIRING AND APPARATUS.
- ALL APPLICABLE STANDARD DRAWINGS FOR THIS PROJECT ARE INCLUDED IN WEST VIRGINIA DEPARTMENT OF HIGHWAYS STANDARD DETAILS BOOK VOLUME II, SIGNING, SIGNALS, LIGHTING AND MARKINGS, ISSUE DATE: MARCH 1, 1996.
- UNDERGROUND CONDUIT PLACEMENT SHALL BE IN ACCORDANCE WITH APPLICABLE CODE REQUIREMENTS. ALL UNDERGROUND UTILITY LINES, GAS, WATER, ETC. IN THE CONSTRUCTION AREA SHALL BE LOCATED AND MARKED BY THE APPROPRIATE UTILITY UPON NOTIFICATION BY THE CONTRACTOR PRIOR TO PLACING ANY CONDUIT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH THE ALLEGHENY ENERGY POWER COMPANY FOR CONNECTION OF NEW ELECTRICAL SERVICES AND INTERIM USE AND DISCONNECTION OF EXISTING ELECTRICAL SERVICES.
- COLOR CODING OF ELECTRICAL CONDUCTORS BY USE OF PHASE TAPE OR FIELD PAINT IS NOT ACCEPTABLE ON THIS PROJECT. CONDUCTORS MUST BE MANUFACTURER COLORED, STRIPED OR RIGID MARKED AS SPECIFIED.
- THE POWER SERVICE WILL BE 120/240 VOLT, 3 WIRE SINGLE PHASE, GROUNDED NEUTRAL FOR BRIDGE WALKWAY AND PARKING LOT LIGHTING. ALLEGHENY ENERGY POWER CO. WILL PROVIDE SERVICE DROPS AS AGREED IN THE FIELD AND SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A COMPLETE SERVICE CONTROL CENTER AS SHOWN ON SHEET L4.
- ALL BRIDGE LUMINAIRE SUPPORT POLES SHALL BE INSTALLED ON THE BRIDGE CONCRETE WALL BLISTER, BEHIND THE STEEL HAND RAILING ADJACENT TO THE PEDESTRIAN WALKWAY. (SEE BRIDGE LIGHTING POLE DETAIL ON SHEET L5).
- ALL JB 18"X18" USED ON THIS PROJECT SHALL INCLUDE GROUND RODS AS SHOWN ON STANDARD DRAWING L TEL-43.
- ALL WORK, MATERIALS AND FEES REQUIRED BY THE POWER COMPANY FOR CONSTRUCTION OF THE ELECTRICAL SERVICES SHALL BE BID AS PART OF ITEM 662013-001 SERVICE AND CONTROL STATION (01, 02, 03).
- CONDUIT EXPANSION FITTINGS SHALL BE INSTALLED AT ALL LOCATIONS AS RECOMMENDED BY THE BRIDGE DESIGNS, REFER TO STANDARD DRAWING TEL-31.
- THE POWER SERVICE AND CONTROL STATION MUST PROVIDE FOR A MINIMUM OF TWO SEPARATE CIRCUITS WITH SEPARATE OVERCURRENT BREAKERS. EACH CIRCUIT RUN MUST BE DESIGNED SO THAT ALTERNATE LIGHTS ARE ON DIFFERENT CIRCUITS AND THE ELECTRICAL LOAD IS EVENLY DISTRIBUTED AS MUCH AS POSSIBLE. EACH BRANCH CIRCUIT SHALL CONSIST OF ONE PHASE CONDUCTOR AND ONE COMMON NEUTRAL CONDUCTOR. AN INSULATED GROUNDED BONDING WIRE (COLOR CODED GREEN) MUST BE RUN IN ALL WIREWAYS TO INSURE GROUND CONTINUITY.
- THE COST OF THE BRIDGE WALKWAY LIGHTING ASSEMBLIES AND ALL REQUIRED HARDWARE, INSTALLED COMPLETE IN PLACE, SHALL BE INCLUDED IN THE COST OF ITEM 662010-001 LIGHTING SUPPORT, TYPE VII. THE COST OF THE BRIDGE WALKWAY LUMINAIRES SHALL BE INCLUDED IN THE COST OF ITEM 662070-001 LUMINAIRE, 100W (BRIDGE).
- GROUND CONDUCTORS ARE NOT INDICATED ON DRAWING CIRCUITRY PLANS. PROVIDE GROUND CONDUCTOR FOR ALL BRANCH FEEDER CIRCUITS SIZED PER NEC, UNLESS OTHERWISE INDICATED.

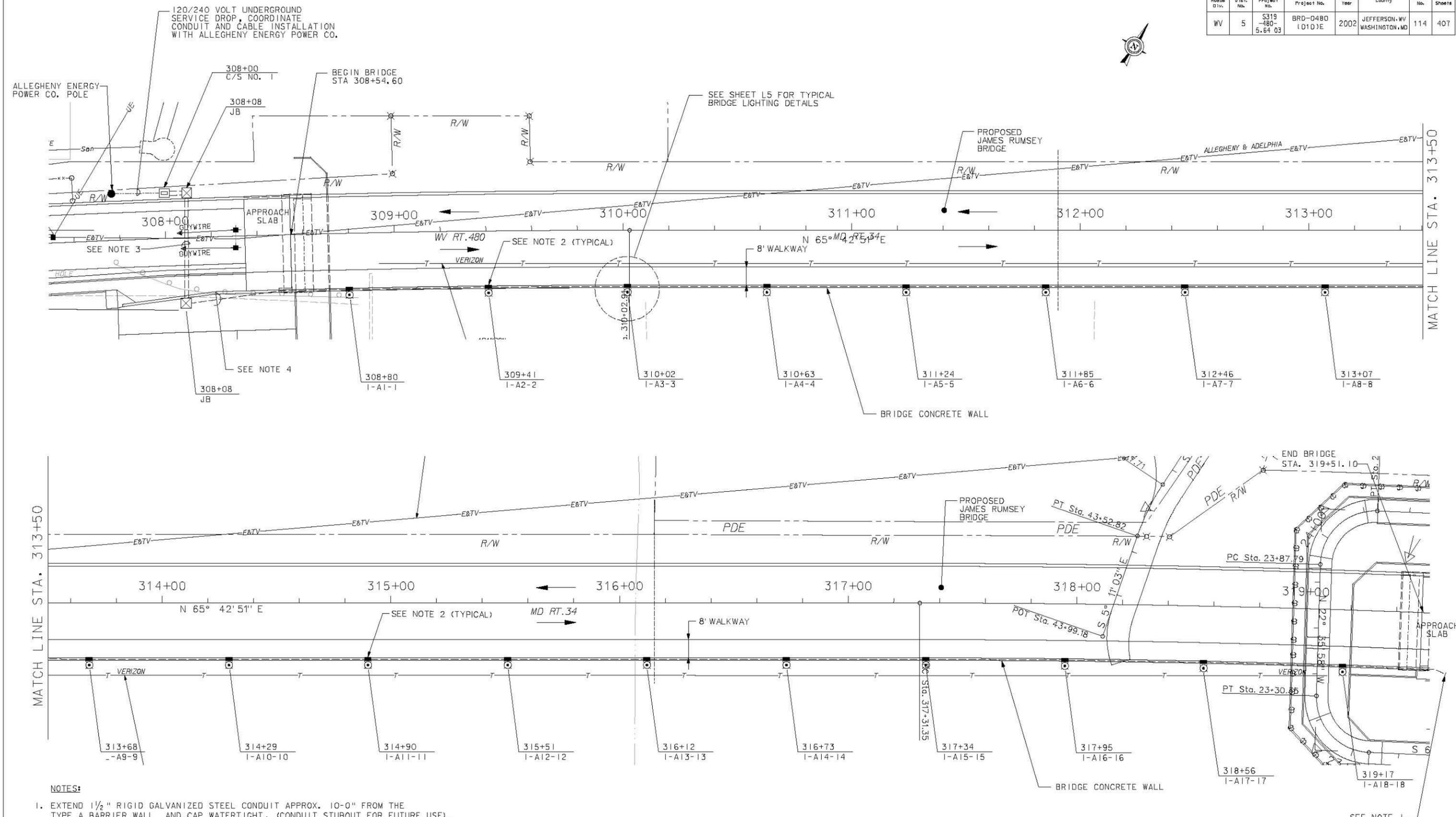
GENERAL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING ALL WIRE IN ACCORDANCE WITH THE LOAD REQUIREMENTS (MINIMUM NO. 8 AWG EXCEPT FOR NO. 10 AWG POLE AND BRACKET CABLES).
- LUMINAIRE BALLAST SHALL BE RATED AT 120 VOLTS. LUMINAIRE LAMPS SHALL BE RATED AT 100 WATT- 9,500 LUMENS WITH AN I.E.S. TYPE II LIGHT DISTRIBUTION FOR BRIDGE LIGHTING (SEE BRIDGE LIGHTING NOTES, SHEET L5). LUMINAIRE BALLAST SHALL BE RATED AT 240 VOLTS. LUMINAIRE LAMPS SHALL BE RATED AT 250 WATT- 30,000 LUMENS, EQUIVALENT TO G.E. CURVE 35-451006-00 FOR PARKING LOT LIGHTING.
- WHERE CONDUITS ARE INSTALLED UNDER ROADWAY PAVEMENTS OR SHOULDERS, THE AREA DISTURBED SHALL BE REPLACED TO THE ORIGINAL DESIGN CONDITIONS AS REQUIRED IN THE WVDOT SPECIFICATIONS (662.6).

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| | | THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS | | | |
| | | SUMMARY OF QUANTITIES, LEGEND & GENERAL NOTES | | | |
| REVISION NUMBER | SHEET NUMBER | REVISION | DATE | BY | |

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NOTES:

1. EXTEND 1/2" RIGID GALVANIZED STEEL CONDUIT APPROX. 10'-0" FROM THE TYPE A BARRIER WALL AND CAP WATERTIGHT, (CONDUIT STUBOUT FOR FUTURE USE).
2. JUNCTION BOX, TYPE B MODIFIED, INSTALLED IN BRIDGE CONCRETE WALL, SEE BRIDGE LIGHTING DETAILS ON SHEET L5 AND BRIDGE STRUCTURAL SHEET, "LIGHT BLISTER DETAILS" FOR JUNCTION BOX INSTALLATION AND LOCATION.
3. 2-3" GALVANIZED RIGID STEEL CONDUITS (ONE WITH LIGHTING CIRCUIT FEEDERS, ONE SPARE) TO BE INSTALLED UNDER EXISTING ROADWAY SURFACE. COORDINATE CONSTRUCTION AND INSTALLATION OF CONDUIT WITH THE TRAFFIC MAINTENANCE PLANS.
4. 1/2" GALVANIZED RIGID STEEL CONDUIT FROM JB AT STA. 308+08 TO INTERCEPT 1/2" GALVANIZED RIGID STEEL CONDUIT INSTALLED IN BRIDGE CONCRETE WALL.

JAMES RUMSEY BRIDGE LIGHTING

L2

SCALE : 0 20 ft.

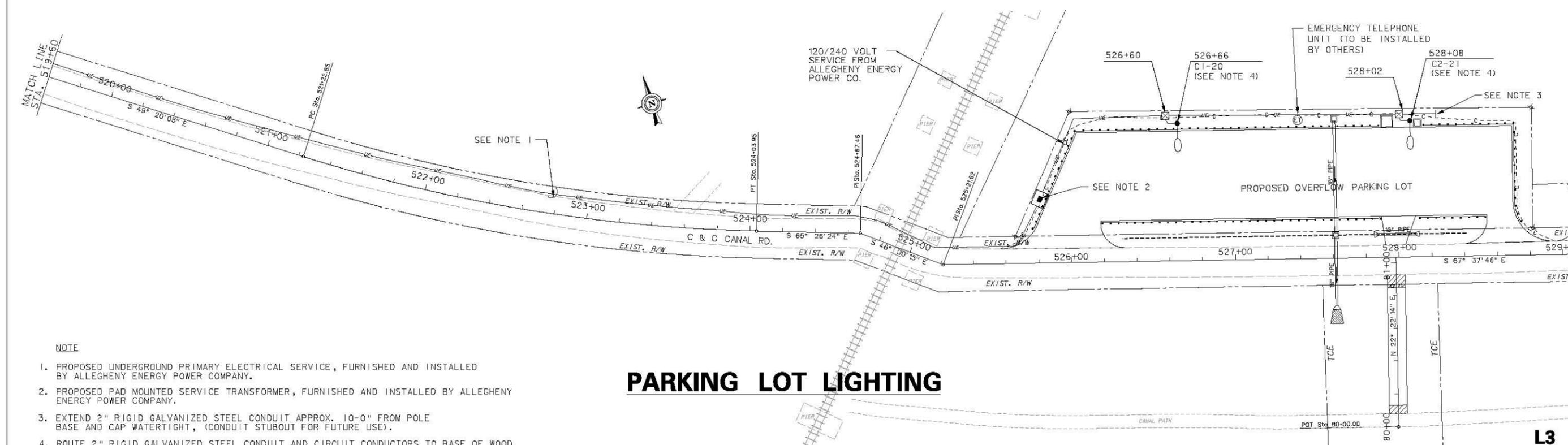
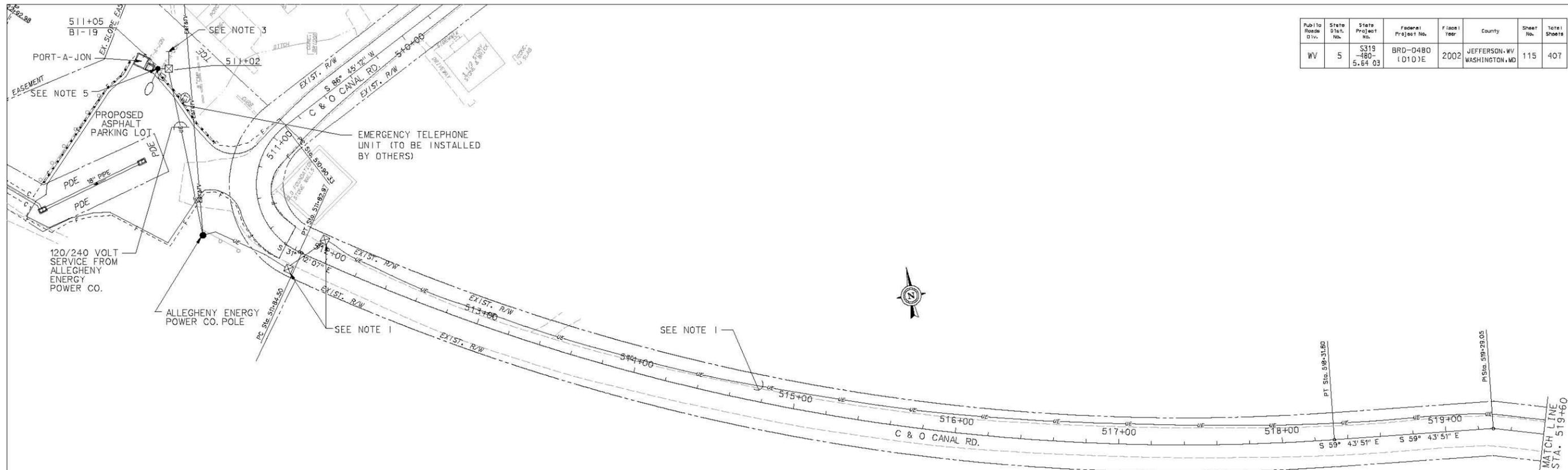
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Michael Baker Jr., Inc.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LIGHTING PLAN SHEET

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PARKING LOT LIGHTING

- NOTE
1. PROPOSED UNDERGROUND PRIMARY ELECTRICAL SERVICE, FURNISHED AND INSTALLED BY ALLEGHENY ENERGY POWER COMPANY.
 2. PROPOSED PAD MOUNTED SERVICE TRANSFORMER, FURNISHED AND INSTALLED BY ALLEGHENY ENERGY POWER COMPANY.
 3. EXTEND 2" RIGID GALVANIZED STEEL CONDUIT APPROX. 10'-0" FROM POLE BASE AND CAP WATERTIGHT, (CONDUIT STUBOUT FOR FUTURE USE).
 4. ROUTE 2" RIGID GALVANIZED STEEL CONDUIT AND CIRCUIT CONDUCTORS TO BASE OF WOOD POLE, ATTACH TO SIDE OF POLE WITH CONDUIT STRAPS, EXTEND CONDUIT AND CONDUCTORS UPWARD ON POLE AND CONNECT TO LUMINAIRE ASSEMBLY. COORDINATE WORK WITH STANDARD DETAILS TEL-14 AND TEL-21.
 5. COORDINATE LIGHTING POLE LOCATION WITH ALLEGHENY ENERGY POWER COMPANY OVERHEAD PRIMARY SERVICE LINE.

SCALE : 0 30 ft.

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

LIGHTING PLAN SHEET

L3

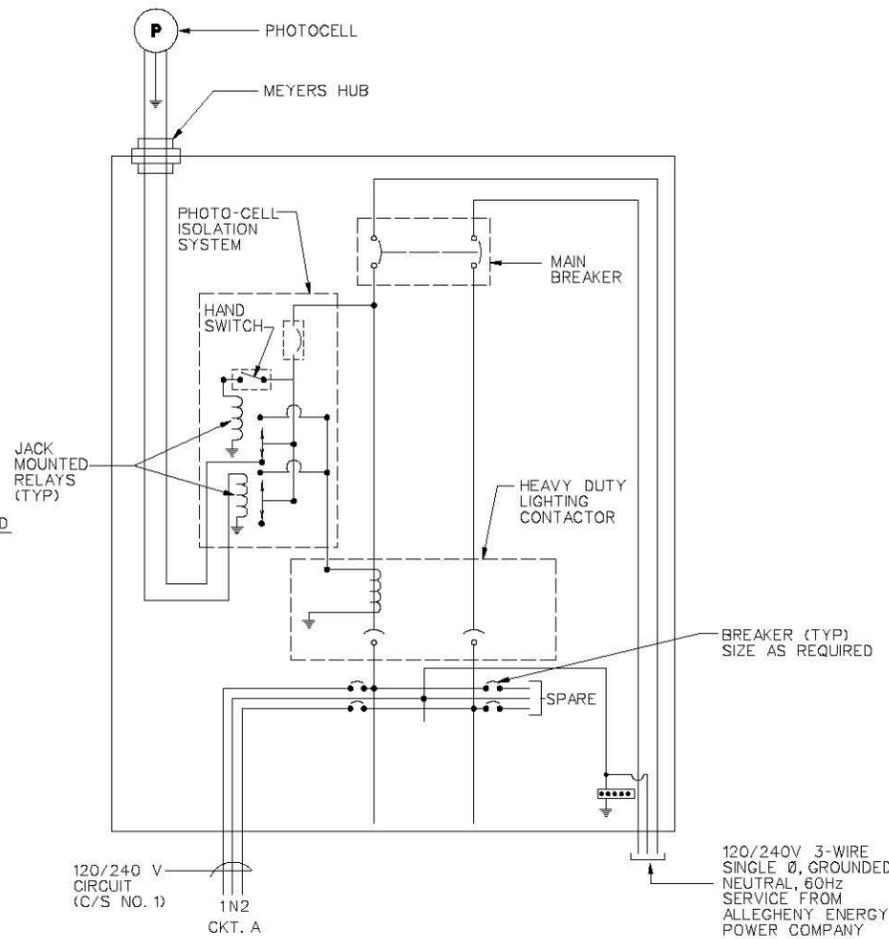
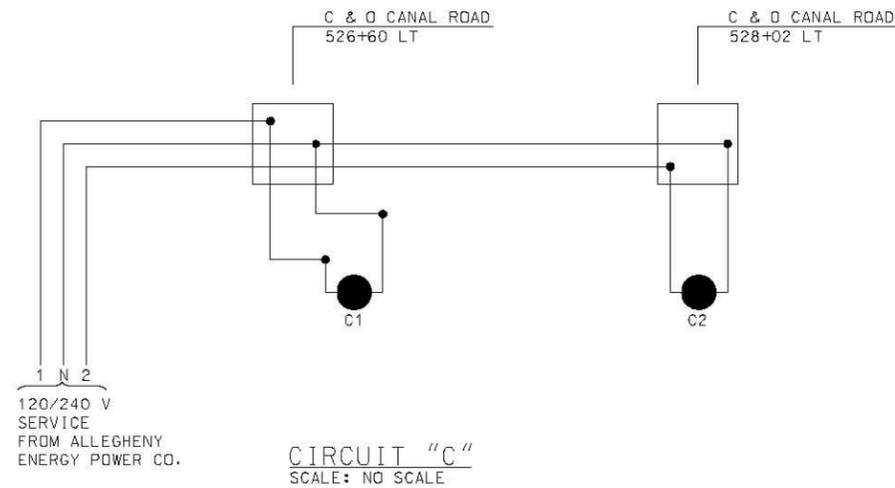
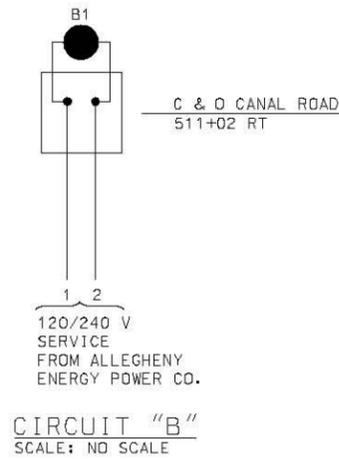
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| Publ'd Roads Div. | State Dist. No. | State Project No. | Facility Project No. | Phase Year | County | Sheet No. | Total Sheets |
| WV | 5 | S319 -480 5.64 03 | BRD-D480 (D1)E | 2002 | JEFFERSON, WV WASHINGTON, MD | 116 | 407 |

NOTES:

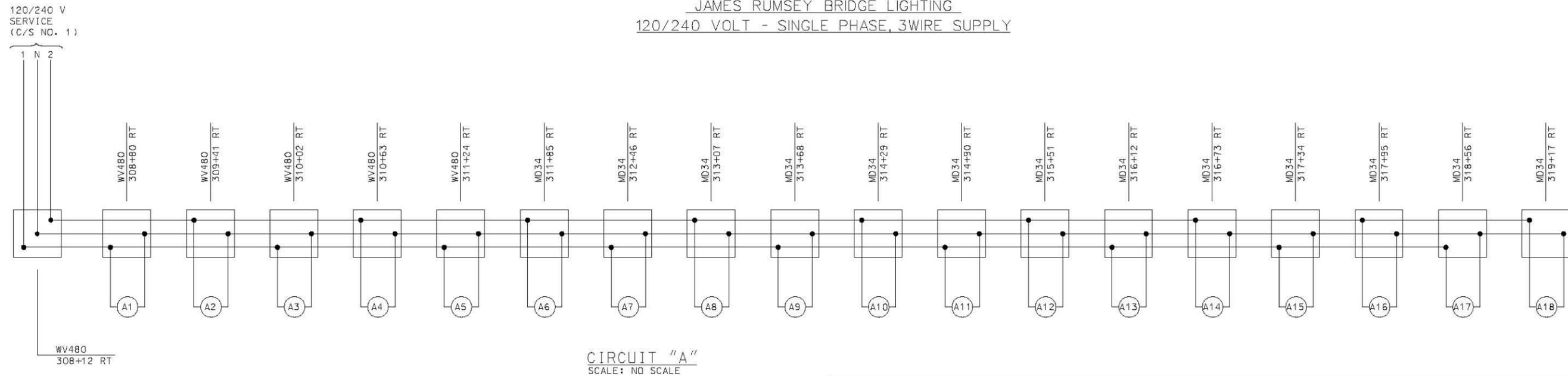
- COMPONENT SIZES FOR CONTROL CENTERS NOT SPECIFIED ON THIS SHEET WILL BE DETERMINED BY EVALUATION OF THE CIRCUIT LOAD.
- FOR INTERNAL CONTROL CENTER WIRING #10 AWG STRANDED COPPER WIRE SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- LIGHTNING PROTECTION FOR CONTROL STATION SHALL BE PROVIDED ON THE SERVICE POLE AT THE WEATHERHEAD AS PER TEL-21.
- CONDUIT HUBS SHALL BE MOUNTED TO ACCOMMODATE ALL CIRCUITS TO BE SERVED. SIZES SHALL BE COMPATIBLE TO CONDUIT SIZE INDICATED ON PLAN SHEETS. REDUCERS SHALL NOT BE USED.
- IN THE EVENT THAT A CONTROL STATION COMPONENT SIZE FALLS BETWEEN TWO TRADE SIZES, THE HIGHER TRADE SIZE SHALL BE USED.
- GROUNDING SYSTEMS SHALL BE INSTALLED IN STRICT COMPLIANCE WITH NATIONAL ELECTRIC CODE, STATE AND LOCAL REGULATIONS.
- ALL WIRING SHALL BE NEAT AND OF GOOD WORKMANSHIP. NATIONAL ELECTRIC CODE STANDARDS SHALL BE ADHERED TO BY THE CONTRACTOR.
- LUMINAIRE WIRING AT POLE BASE SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD DRAWING TEL-01.
- CONTROL CABINET MOUNTING SHALL BE IN ACCORDANCE WITH STANDARD DRAWING TEL-21 OR AS OTHERWISE DIRECTED ON THE CONTRACT PLANS.
- ENCLOSURES WILL BE NEMA TYPE 4 STAINLESS STEEL CABINET, WITH 3" LETTERING D.O.H. - 240 VOLTS.
- ENCLOSURE SIZE WILL BE DETERMINED BY COMPONENT SIZE AND APPROVED BY THE ENGINEER.
- PHOTOELECTRIC UNIT SHALL BE MOUNTED OUTSIDE THE LIGHT ENVELOPE CAST BY THE LIGHTING SYSTEM, A MINIMUM OF 12'-0" ABOVE GROUND LEVEL. PHOTOELECTRIC UNIT WILL BE PHOTO CELL TWISTLOCK TYPE, STANDARD NEMA WITH 2 3/4" I.D. LOCKING BASE.
- IN CASES WHERE THE LINE-SIDE OF THE ELECTRICAL SERVICE DOES NOT HAVE A LIGHTNING ARRESTER INSTALLED BY THE SERVING UTILITY COMPANY, THE UNIT MUST BE INSTALLED BY THE CONTRACTOR ON THE LOAD-SIDE OF THE SYSTEM WITHIN THE CONTROL CENTER ENCLOSURE.

LEGEND

- - 100 WATT HIGH PRESSURE SODIUM BRIDGE LUMINAIRE
- - 250 WATT HIGH PRESSURE SODIUM PARKING LOT LUMINAIRE
- - TYPE H JUNCTION BDX, 18" X 18" OR TYPE B JUNCTION BOX
- A1 - LUMINAIRE CIRCUIT DESIGNATION



TYPICAL WIRING AT CONTROL CENTER NO. 1
JAMES RUMSEY BRIDGE LIGHTING
120/240 VOLT - SINGLE PHASE, 3WIRE SUPPLY



L4

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THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**WIRING DIAGRAMS AND
CONTROL STATION SCHEMATICS**

| Publ'd Roads Div. | State Dist. No. | State Project No. | Federal Project No. | Fiscal Year | County | Sheet No. | Total Sheets |
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BRIDGE LIGHTING NOTES

1. BRIDGE LIGHTING ASSEMBLIES SHALL CONSIST OF THE STERNBERG A850 - ASR "OLD TOWN SERIES" ACORN STYLE LIGHT FIXTURE WITH A 4" DIAMETER "3600 WILLIAMSBURG SERIES" ALUMINUM ALLOY POLE AND 1 1/2" DIAMETER BASE, INSTALLED AS SPECIFIED BY MANUFACTURER'S RECOMMENDATIONS AND DESIGNED AND CONSTRUCTED WITH THE FOLLOWING PRODUCT OPTIONS AND SPECIFICATIONS:

FIXTURES

a.) ACORN GLOBE:

THE ACORN GLOBE SHALL BE 16" IN DIAMETER AND 29 1/2" TALL WITH AN 8" DIAMETER NECK. IT SHALL BE CONSTRUCTED OF VANDAL RESISTANT AND DENT RESISTANT CLEAR TEXTURED ACRYLIC WITH A SOLID SPUN ALUMINUM ROOF FOR REDUCED SIDE GLARE AND UP-LIGHT. THE SOLID ROOF SHALL BE SECURELY AFFIXED TO THE TOP OF THE ACORN GLOBE. THE ACORN GLOBE PART NUMBER SELECTION SHALL BE "A850ASR", NO SUBSTITUTE SHALL BE PERMITTED.

b.) FITTER:

THE FITTER SHALL BE HEAVY WALL CAST ALUMINUM, 319 ALLOY FOR HIGH TENSILE STRENGTH. IT SHALL HAVE AN 8" INSIDE DIAMETER OPENING TO ATTACH TO THE 8" NECK OF THE ACORN GLOBE. THE FITTER SHALL BE CIRCUMFERENTIALLY WELDED TO THE POLE TOP OR TENON. THE FITTER SHALL HAVE A ONE PIECE RING BUG GASKET TO RESIST INSECT PENETRATION INTO LAMP ASSEMBLY. THE FITTER PART NUMBER SELECTION SHALL BE "508BD/4", NO SUBSTITUTES SHALL BE PERMITTED.

c.) BALLAST HOUSING:

THE BALLAST HOUSING SHALL BE HEAVY WALL CAST ALUMINUM, 319 ALLOY FOR HIGH TENSILE STRENGTH. THE HOUSING SHALL BE MOUNTED TO THE CAST FITTER WITH TWO SCREWS AND TO INCLUDE A ONE-PIECE WATER GASKET RING TO PREVENT WATER ENTRY INTO THE BALLAST COMPARTMENT. THE BALLAST SHALL BE ATTACHED TO THE BALLAST HOUSING BY TWO ALUMINUM WIDE FACED "Z" BRACKETS.

d.) ELECTRICAL:

THE FIXTURE AND BALLAST SHALL BE U.L. LISTED, H.I.D. 100 WATT H.P.S. LAMP, CORE AND COIL BALLAST SHALL BE HIGH POWER FACTOR WITH MINIMUM STARTING TEMPERATURE OF -30 DEGREES F., MEDIUM BASE PORCELAIN SOCKET, 4 KV RATED. THE OPERATING VOLTAGE SHALL MATCH THE SYSTEM VOLTAGE. INSTALL MANUFACTURER'S RECOMMENDED LAMP TYPE AND MODEL WITH THIS FIXTURE.

e.) OPTICS:

REFRACTORS SHALL BE 6" DIAMETER BOROSILICATE GLASS WITH AN I.E.S. TYPE 2 (RE2G) DISTRIBUTION. IT SHALL BE SECURED TO THE SOCKET STEM WITH 3/8" STEEL ANODIZED THREADED PIPE NIPPLE AND REST ON A CAST ALUMINUM HOLDER WITH ANTI-SHOCK GASKET. THE REFRACTOR SHALL BE SECURED TO CAST HOLDER WITH A QUARTER-TURN INTERNAL ALUMINUM TWIST RING.

f.) FINISH:

MANUFACTURERS STANDARD FINISH SHALL INCLUDE APPLICATION OF TWO COATS OF WASH PRIMER, FOLLOWED BY TWO COATS OF SHERWIN WILLIAMS SEMI-GLOSS INDUSTRIAL ENAMEL. STANDARD FINISH TYPE SHALL BE BLACK ENAMEL.

g.) WARRANTY:

WARRANTY SHALL BE MANUFACTURER'S STANDARD THREE YEAR LIMITED WARRANTY FOR FIXTURES.

*POLE/BASE

a.) POLE:

THE LIGHT POLE SHALL BE A STRAIGHT FLUTED SHAFT (STERNBERG TYPE FP4), 4" OUTSIDE DIAMETER BY 12'-0" HIGH (WITH BASE), CONSTRUCTED OF ASTM 6081 EXTRUDED TEMPERED ALUMINUM, WITH A DECORATIVE FLUTED TENON. THE SHAFT SHALL BE DOUBLE CIRCUMFERENTIALLY WELDED INTERNALLY TO THE POLE BASE. POLE MODEL SHALL BE STERNBERG VINTAGE LIGHTING NO. 3600.

b.) BASE:

THE LIGHT POLE BASE SHALL BE CONSTRUCTED OF 319 ALLOY CAST ALUMINUM WITH A 3/4" THICK FLOOR CAST BASE, 1 1/2" DIAMETER BY 28" HIGH. POLE AND BASE SHALL BE ONE PIECE CONSTRUCTION, OVERALL POLE HEIGHT SHALL BE 12'-0". FOUR HOT DIPPED GALVANIZED ANCHOR BOLTS PER POLE WITH LEVELING NUTS SHALL BE PROVIDED FOR ANCHORAGE, (SEE BRIDGE STRUCTURE DWGS.) AND SHALL COMPLY WITH SECTION 662.2.13.3.5 OF THE WEST VIRGINIA DIVISION OF HIGHWAYS STANDARD SPECIFICATIONS ROADS AND BRIDGES. A DOOR SHALL BE PROVIDED FOR WIRING AND ANCHOR BOLT ACCESS, SECURED WITH TWO TAMPERPROOF STAINLESS STEEL SCREWS. BASE SHALL BE PROVIDED WITH A GROUNDING STUD.

c.) FINISH:

MANUFACTURERS STANDARD FINISH SHALL INCLUDE APPLICATION OF TWO COATS OF WASH PRIMER, FOLLOWED BY TWO COATS OF SHERWIN WILLIAMS SEMI-GLOSS INDUSTRIAL ENAMEL. STANDARD FINISH TYPE SHALL BE BLACK ENAMEL.

d.) WARRANTY:

WARRANTY SHALL BE MANUFACTURER'S STANDARD THREE YEAR LIMITED WARRANTY FOR POLES.

*INSTALL LIGHTING ASSEMBLY WITH POLE BASE ACCESS DOOR PERPENDICULAR TO BRIDGE BARRIER WALL (SEE POLE BASE DETAIL THIS SHEET).

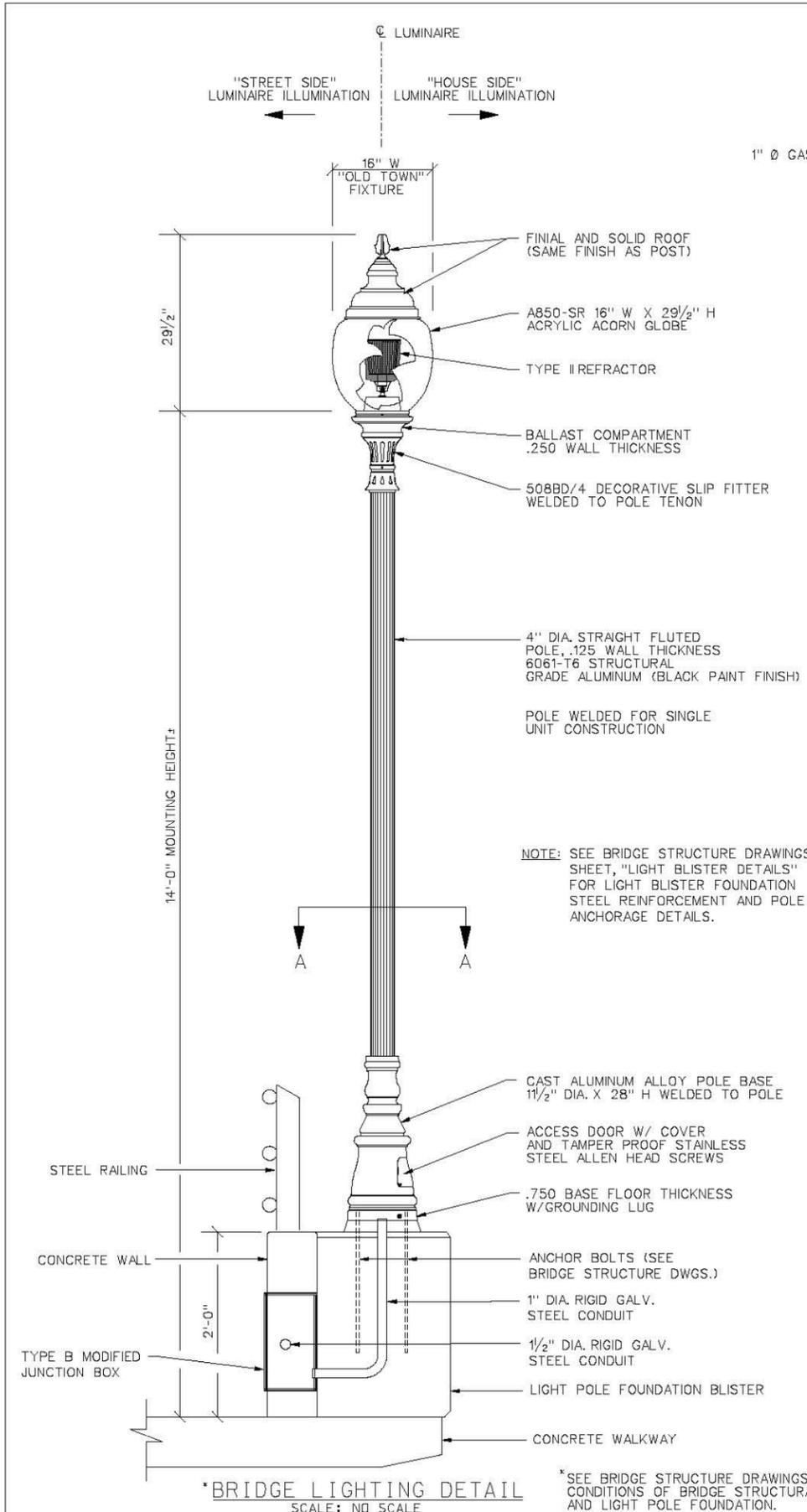
NOTE: THE MANUFACTURING, FURNISHING AND INSTALLATION OF THE BRIDGE LIGHTING SYSTEM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LIGHTING UNIT MANUFACTURER AND THE PLANS AND SPECIFICATIONS SET FORTH BY THE WEST VIRGINIA DIVISION OF HIGHWAYS, SECTION 662 ROADWAY LIGHTING (AS APPLICABLE) AND THE FOLLOWING PUBLICATIONS:

- LUMNAIRES AND TRAFFIC SIGNALS, LATEST ISSUE - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).
- NATIONAL ELECTRICAL CODE
- AMERICAN NATIONAL STANDARDS INSTITUTE

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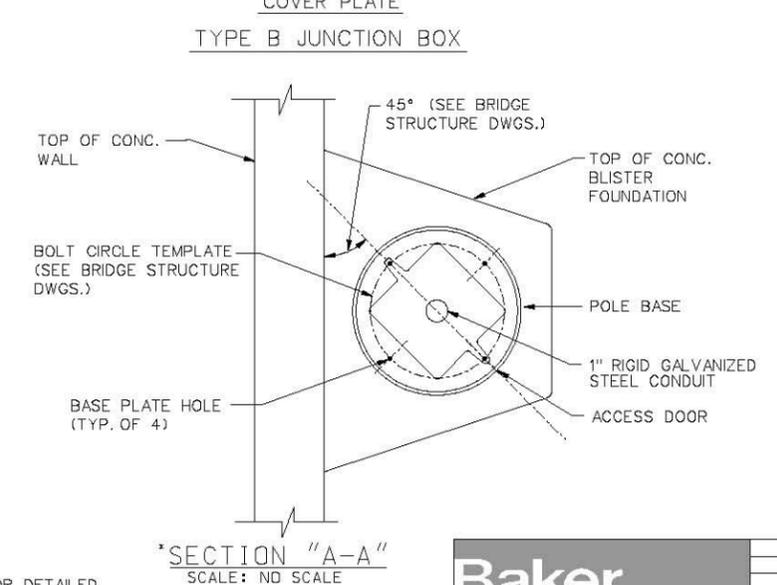
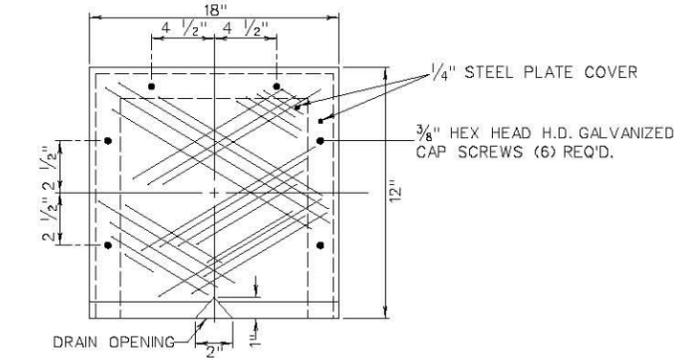
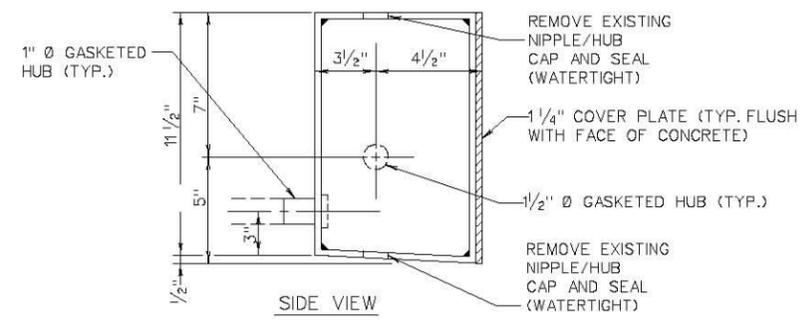
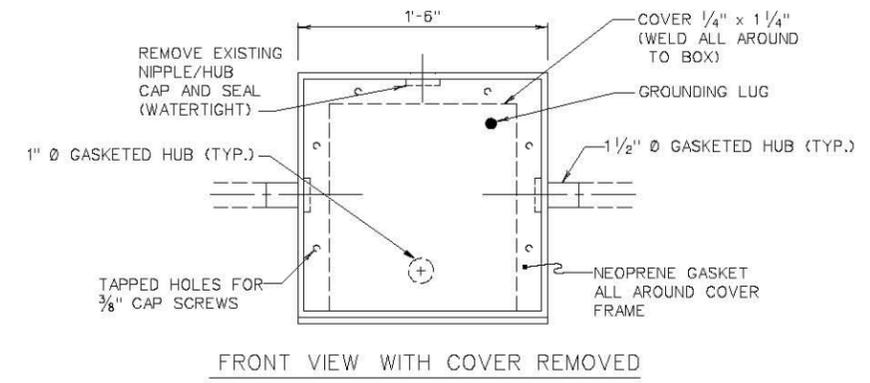
THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

BRIDGE LIGHTING DETAILS & NOTES



*BRIDGE LIGHTING DETAIL
SCALE: NO SCALE

*SEE BRIDGE STRUCTURE DRAWINGS FOR DETAILED CONDITIONS OF BRIDGE STRUCTURAL COMPONENTS AND LIGHT POLE FOUNDATION.



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