GENERAL NOTES

All work shall be done in accordance with the latest edition of the Colorado Department of Transportation Standard Specifications for Road and Bridge Construction and as noted in the drawings.

The following table gives the minimum lap splice length for epoxy coated reinforcing bars placed in accordance with Subsection 602.06. These splice lengths shall be increased by 25% for bars spaced at less than 6" on center or less than 3" lateral cover.

| Bor size | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 |
|---------------------------------------|--------|--------|--------|---------|--------|--------|---------|--------|
| Splice length for Class D Concrete | 1'-3'' | 1'-7'' | 2'-5'' | 2'-10'' | 3'-8'' | 4'-8'' | 5'-11'' | 7'-3'' |

When the Contractor elects to substitute epoxy coated reinforcement for black reinforcing bars, the minimum lap splice shall be as described above.

Unless otherwise noted in the plans, the following table gives the minimum lap splice length for black reinforcing bars placed in accordance with Subsection 602.06. These splice lengths shall be increased by 25% for bars spaced at less than 6" on center or less than 3" lateral cover.

| Bar size | #4 | #5 | #6 | #7 | #8 | #9 | #10 | #11 | |
|----------|----|----|----|----|----|----|-----|-----|--|
| | | | | | | | | | |

Splice length for Class D Concrete 1'-1" 1'-4" 1'-7" 1'-11" 2'-6" 3'-1" 3'-11" 4'-10"

Splice criteria for Class D Concrete shall also apply to Class DR Concrete, Class DT Concrete, and Concrete (Patching).

All the provisions for bridge deck concrete shall also apply to approach slab concrete.

All reinforcing steel shall be epoxy coated unless otherwise noted.

N denotes non-coated reinforcing steel.

Grade 60 reinforcing steel is required.

Expansion joint material shall meet AASHTO Specification M213.

The following structural steel shall be AASHTO M270 Grade 36 (ASTM A709) or Grade 50 (ASTM A709): expansion device anchor bars, cover plates, temporary bridge deck plates and asphaltic joint bridging plates.

The following structural steel shall be AASHTO M270 (ASTM A709) Grade 36 or Grade 50 (ASTM A709): expansion device rails for strip seals.

The following structural steel shall be AASHTO M270 (ASTM A709) Grade 50: expansion device rails for modulars.

Field welding of any kind shall not be permitted on the steel girders unless specifically called for in the plans.

The Contractor shall be responsible for the stability of the structure during all phases of construction.

Falsework and forming may be required.

All falsework shall conform to the requirements of Subsection 601.11 of the 20-- C Standard Specifications for Road and Bridge Construction.

Unless otherwise noted, dimensions contained in these plans are calculated "As Constructed Plans". These dimensions may be adjusted to meet the structure. The Contractor shall verify all dependent dimensions in the field ordering or fabricating any material.

All longitudinal and transverse dimensions are measured horizontally correction for grade.

Before removal, the Contractor shall verify the existing HMA thicknes the bridge deck and approach slabs in accordance with the special provisions Ren Lof Asphalt Mat (Planing)(Special).

All asphalt material and remaining membrane per phase shall be removed from the surface of the concrete deck prior to concrete removalin accordance with the special provisions Removal of Asphalt Mat (Planing)(Special).

After the removal of asphalt and membrane per phase, the entire bridge deck per phase shall be sounded for delamination according to ASTM D-4580. All unsound concrete shallbe marked and removed as directed by the Engineer. Costs for sounding shall be included in the work.

Dverlay of planed deck areas shall be completed within 14 calendar days following the removal of asphalt planing, unless otherwise approved by the Engineer.

Deck rehabilitation quantities are approximate. Final location shall be determined by the Engineer. Payment will be for the actual area repaired and material used as approved by the Engineer. Rehabilitation quantities in addition to plan quantities will be measured and paid for at the unit price for the appropriate bid item.

The Contractor may stockpile deck repair material at own risk. All unused material shall remain property of the Contractor. CDDT will not purchase leftover materials or pay any restocking fees.

After removal of concrete, all exposed rebar shall be cleaned of concrete by chipping and/or sandblasting, and this shall be in cost of the work. Sandblasting shall not be performed on ep reinforcing steel.

Unless noted otherwise on the plans, the proposed over the grade and cross slope of the existing concrete

All saw water, coring waste, concrete washout and ction debris shall be collected and disposed of off site all applicable Federal, State, and Local Regulation addition ost to the project. Under no circumstances shall such o enter anv natural or manmade water way or storm

The Contractor shall protect pedestrips debris during the construction work. avelina public from any falling which falls on paths or k will not be measured and roadways shall be removed immediately paid for separately, but shall be st of the work. ncluded

The information shown on the ng the type and location of utilities is not guaranteed or all inclusive. The Contractor shall contact the Utility No of Colorado at 811 (1-800-922-1987) at least 3 days (2 day the day of notification) prior to any excavation or oth

ives will be required on-site during installation of Manufacture expansion nent of polyester concrete overlay. See Project Special P

t on the existing structure. Removal of hazardous l eac dance with Section 250, as well as applicable EPA and ting or burning of painted surfaces is prohibited unless e neutrolized or removed prior to cutting procedures or operly contained.

actor shall take all steps to avoid contaminating state waters, in The accorda with subsection 107.25.

WELDING AND STEEL REPAIR NOTES

All welding be performed by AWS Certified Welders.

All safety requirements for welding procedures by DHSA shall be followed.

The welding inspector shall be on AWS Certified Welding Inspector (CWI) in conformance with the provisions of AWS QC1.

Personnel performing nondestructive testing shall be gualified in accordance with AWS D1.5, 6.1.3.4.

After repair is complete, surface shall be prepared for paint per SSPC-SP1 and SSPC-SP2.

Certified surface shall be painted in accordance with SSPC-Paint 20, Type II, Level I.

| | Print Date: \$DATE\$ | | Sheet Revisions | | Colorado Department of Transportat | tion | As Constructed | | | Project No./Code |
|--|--|----------------|-----------------|-------|--|----------|----------------|--|---------------------------|------------------|
| All seals for this set of | File Name: Sheet_B-100-1AR.dgn Horiz. Scale: None Vert. Scale: As Noted | Date: | Comments | Init. | 2829 West Howard Place, 3rd Denver, CD 80204 | l Floor | No Revisions: | GENERAL I | NFORMATION | Project Number |
| drawings are applied to the cover page(s) | Unit Information Unit Leader Initials | $\overline{2}$ | | | Denver, CD 80204 Phone: 303-512-4079 FAX: 303-757-9197 | | Revised: | Designer: XXXXXXX | | Code |
| | | 3 | | | | Initials | Void: | Detailer: XXXXXXXX Sheet Subset: BRIDGE | Subset Sheets: BXX of XXX | Sheet Number |

DATE DETAIL DATE QUANTITY

| | ENERAL INFORMATION | B-100-1AR |
|---|---|--------------------------|
| Designer/Muller: | | |
| common used on brid malifier as necessary | rious general notes and design da lge preservation and repair proje for specific projects. r days a deck is left open shallb | cts. They shall be |
| | | |
| DESIGN DATA | | |
| AASHTD Standard Specification interims for bar splice table. | on for Highway Bridges, Sixteenth | Edition, 1996, with 1997 |
| Reinforced Concrete: | | |
| Class D Concrete: Class DF Concrete: Class DR Concrete: Class DT Concrete: | f'c = 4,500 psi f'c = 4,500 psi f'c = 4,500 psi f'c = 4,500 psi | |

| Class DR Concrete: Class DT Concrete: | f'c = 4,500 psi f'c = 4,500 psi |
|--|--------------------------------------|
| Concrete (Patching): | f'c = 4,500 psi |
| Reinforcing Steel: | fy = 60,000 psi |

AASHTO M270 (ASTM A709) GRADE 36 fy = 36,000 psi fy = 50,000 psi AASHTO M270 (ASTM A709)Grade 50W AASHTO M270 (ASTM A709)Grade 50 fy = 50,000 psi

ABBREVIATIONS

= Each

Structural Steel:

Εa

BF FF

RC

FFRW

WSEL

́хх

BXX

LEGEND

(Per M-100-2 or as shown below)

= Back Face = Front Face = Front Face Backwall = Reinforced Concrete = Water Surface Elevation

Section or Detail Identification

ross Reference Drawing Number if blank or dash, reference is to same sheet)



Know what's **below**. **Call** before you dig.