

GENERAL NOTES

SPECIFICATION

- 1. CURRENT EDITION OF THE AASHTO LRFD GUIDE SPECIFICATIONS FOR PEDESTRIAN BRIDGES, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION BICYCLE FACILITIES PLANNING AND DESIGN GUIDELINES, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN MANUAL, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, AND THE INCORPORATED PROJECT SPECIAL PROVISIONS.
- 2. FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.
- 3. FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.
- 4. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.
- 5. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
- 6. FOR PREFABRICATED PEDESTRIAN BRIDGE, SEE SPECIAL PROVISIONS.
- 7. FOR EROSION CONTROL MEASURES, SEE EROSION CONTROL PLANS.
- 8. FOR STRUCTURAL STANDARD NOTES, SEE SHEET S-16.

MATERIAL AND WORKMANSHIP

- 1. PROVIDE ALL MATERIAL AND WORKMANSHIP IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, 2024 EDITION, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS.

DESIGN DATA

- 1. UNIFORM PEDESTRIAN LIVE LOAD.....90 PSF
- 2. VEHICULAR LIVE LOAD.....AASHTO H-10
- 3. WIND LOAD.....PER AASHTO
- 4. WATER LOAD.....PER AASHTO
- STREAM VELOCITIES:
A. STRUCTURE #1: 1.38 FEET/SEC
B. STRUCTURE #2: 7.13 FEET/SEC
- 5. SEISMIC LOAD.....PER AASHTO
- 6. TEMPERATURE LOAD.....PER AASHTO

WATER ELEVATIONS

- 1. THE WATER ELEVATIONS SHOWN IN THE PLANS ARE FOR INFORMATION ONLY AND THE ACTUAL WATER ELEVATION DURING CONSTRUCTION MAY VARY DEPENDING ON WEATHER CONDITIONS AND SEASONAL FLUCTUATIONS.
- 2. ADDITIONAL PAYMENT FOR DEWATERING WILL NOT BE ALLOWED. PAYMENT FOR DEWATERING SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOUNDATIONS

- 1. FOR FOUNDATION RECOMMENDATIONS AND DESIGN INFORMATION, REFER TO THE FALCON ENGINEERING FOUNDATION RECOMMENDATIONS DATED OCTOBER 30, 2024 AND NOVEMBER 13, 2024.
- 2. SEE "PILE FOUNDATION TABLES" SHEET FOR FOUNDATION NOTES.

CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE SHALL BE CLASS A, UNLESS OTHERWISE NOTED.
- 2. CONCRETE WORK SHALL FOLLOW THE PROVISIONS OF SECTIONS 420 AND 1000 OF THE STANDARD SPECIFICATIONS.
- 3. CHAMFER ALL EXPOSED EDGES 3/4" UNLESS OTHERWISE NOTED.
- 4. THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 400 TONS OF REINFORCING STEEL, ONE 30 INCH SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 400 TONS OF REINFORCING STEEL, TWO 30 INCH SAMPLES OF EACH SIZE BAR USED. THE BARS FROM WHICH THE SAMPLES ARE TAKEN MUST THEN BE SPLICED WITH REPLACEMENT BARS OF THE SIZE AND LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS. PAYMENT FOR THE SAMPLES OF REINFORCING STEEL SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

REINFORCEMENT

- 1. REINFORCING BARS AND BAR SUPPORTS SHALL FOLLOW THE PROVISIONS OF SECTION 1070 OF THE STANDARD SPECIFICATIONS.
- 2. REINFORCING BARS SHALL CONFORM TO ASTM A615 FOR GRADE 60.
- 3. STANDARD HOOKS SHALL BE USED UNLESS OTHERWISE NOTED.
- 4. ALL LAP AND SPLICE LENGTHS SHALL BE IN ACCORDANCE WITH THE DESIGN CRITERIA AND CRSI STANDARD PRACTICES, EXCEPT AS OTHERWISE NOTED.
- 5. PROVIDE A MINIMUM OF 2" OF COVER TO ALL REINFORCING BARS, UNLESS OTHERWISE NOTED.
- 6. CONTRACTOR SHALL SUBMIT REINFORCEMENT SHOP DRAWINGS TO THE ENGINEER SEALING THESE BRIDGE PLANS FOR REVIEW AND APPROVAL FOR ALL CAST-IN-PLACE PROJECT ELEMENTS PRIOR TO FABRICATION OR INSTALLATION.

PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE

- 1. PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE, ANCHOR BOLTS, AND BEARING PADS SHALL BE DESIGNED BY THE CONTRACTOR'S ENGINEER BASED UPON THE SPECIFIED DESIGN CRITERIA IN THE PLANS AND PROJECT SPECIAL PROVISIONS. THE PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE PLANS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA. PLANS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL. THE PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE CALCULATIONS SHALL INCLUDE A SUMMARY OF REACTIONS. THE PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE FABRICATION SHALL NOT BEGIN UNTIL ALL APPROVALS HAVE BEEN RECEIVED.
- 2. PREFABRICATED PEDESTRIAN BRIDGE SHALL BE A STEEL PRATT TYPE TRUSS.
- 3. THE BRIDGE CLEAR PATH WIDTH SHALL BE 12'-0" AND SHALL BE MEASURED BETWEEN THE INSIDE FACES OF SAFETY RAILING ELEMENTS OR TOP CHORDS, WHICHEVER IS MORE RESTRICTIVE.
- 4. SAFETY RAILING SYSTEM SHALL BE A MINIMUM OF 4'-6" ABOVE THE TOP OF BRIDGE DECK.
- 5. ALL STRUCTURAL STEEL FOR PREFABRICATED PEDESTRIAN BRIDGE SHALL BE WEATHERING STEEL AND SHALL CONFORM TO NCDOT STANDARD SPECIFICATIONS AND PREFABRICATED PEDESTRIAN BRIDGE PROJECT SPECIAL PROVISIONS.
 - A. ALL STRUCTURAL STEEL TUBE SHAPES SHALL CONFORM TO ASTM A847.
 - B. ALL STRUCTURAL STEEL CHANNELS AND ANGLES SHALL CONFORM TO ASTM A588.
 - C. ALL OTHER STEEL PLATES, SHAPES AND BARS SHALL CONFORM TO ASTM A588.
 - D. ALL ANCHOR BOLTS SHALL BE GALVANIZED AND SHALL CONFORM TO ASTM A499.
 - E. ALL HIGH STRENGTH BOLTS SHALL BE WEATHERING STEEL AND CONFORM TO F3125 GRADE A325. WASHERS & NUTS SHALL MATCH FINISH OF BOLT.
- 6. ALL STRUCTURAL STEEL WELDS SHALL CONFORM TO THE LATEST PROVISIONS OF THE STRUCTURAL WELDING CODE, ANSI/AWS D1.1. ALL WELDERS SHALL BE QUALIFIED IN ACCORDANCE WITH THE ABOVE AWS CODE.
- 7. SPLICES, IF REQUIRED FOR THE PREFABRICATED PEDESTRIAN BRIDGE SUPERSTRUCTURE, SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS, AND NECESSARY CALCULATIONS PROVIDED.
- 8. WEEP HOLES SHALL BE PROVIDED FOR DRAINAGE OF BRIDGE TUBULAR MEMBERS, AND SHALL BE CLEARLY NOTED ON THE SHOP DRAWINGS.
- 9. THE BRIDGE DECK SHALL BE REINFORCED CAST-IN-PLACE CONCRETE (DESIGNED BY OTHERS).
- 10. A 1" COMPRESSION JOINT EXPANSION SEAL SHALL BE PROVIDED ON EACH END OF THE BRIDGE BETWEEN THE APPROACH SLAB AND THE BRIDGE DECK. CONTRACTOR SHALL SUBMIT EXPANSION JOINT SHOPS AND PRODUCT DATA FOR REVIEW AND APPROVAL PRIOR TO FABRICATION OR INSTALLATION.

PREFABRICATED PEDESTRIAN BRIDGE SUBSTRUCTURE

- 1. THE SUBSTRUCTURE DESIGN WAS BASED UPON THE INFORMATION AVAILABLE FROM THE PREFABRICATED PEDESTRIAN BRIDGE MANUFACTURERS. ALL REACTIONS ARE ALLOWABLE LOADS. VERTICAL REACTIONS SHOWN ARE PER BASE PLATE (4 PER BRIDGE). POSITIVE REACTIONS ARE DOWNWARD AND NEGATIVE REACTIONS ARE UPWARD. LATERAL REACTIONS SHOWN ARE PER BENT (2 PER BRIDGE SPAN). LONGITUDINAL REACTIONS SHOWN ARE PER BASE PLATE (4 PER BRIDGE). LOADS SHOWN CANNOT BE EXCEEDED WITHOUT APPROVAL BY THE ENGINEER SEALING THESE BRIDGE PLANS. IF LOADS DIFFER FROM THOSE SHOWN, NOTIFY ENGINEER SEALING THESE BRIDGE PLANS IMMEDIATELY AND PRIOR TO FABRICATION SO THAT LOADS CAN BE REVIEWED AND PLAN DETAILS REVISITED.

STRUCTURE #1 PREFABRICATED TRUSS:

A. VERTICAL LOADS:	
DEAD LOAD.....	25,000 LBS
UNIFORM LIVE LOAD (PL).....	24,300 LBS
VEHICLE LOAD (LL).....	11,300 LBS
WIND (WS WINDWARD).....	-8,000 LBS
WIND (WS LEEWARD).....	-2,900 LBS
WIND UPLIFT.....	+6,000 LBS
BUOYANCY.....	=4,750 LBS

PREFABRICATED PEDESTRIAN BRIDGE SUBSTRUCTURE (CONT.)

- B. LATERAL LOADS:
WIND (WS)..... 22,600 LBS
STREAM FLOW..... 500 LBS
 - C. LONGITUDINAL LOADS:
TEMPERATURE..... 3,500 LBS
- STRUCTURE #2 PREFABRICATED TRUSS:
- A. VERTICAL LOADS:
DEAD LOAD..... 21,400 LBS
UNIFORM LIVE LOAD (PL)..... 21,600 LBS
VEHICLE LOAD (LL)..... 11,300 LBS
WIND (WS WINDWARD)..... -7,100 LBS
WIND (WS LEEWARD)..... -2,600 LBS
WIND UPLIFT..... +4,800 LBS
 - B. LATERAL LOADS:
WIND (WS)..... 19,500 LBS
STREAM FLOW..... 1,500 LBS
 - C. LONGITUDINAL LOADS:
TEMPERATURE..... 3,000 LBS

- 2. PEDESTRIAN BRIDGE END BENT DETAILS SHALL BE COORDINATED WITH THE PREFABRICATED PEDESTRIAN BRIDGE PLANS, TO BE PROVIDED BY THE PREFABRICATED PEDESTRIAN BRIDGE MANUFACTURER. NOTIFY ENGINEER IMMEDIATELY IF CONFLICTS ARE IDENTIFIED. CONSTRUCTION OF THE END BENTS SHALL NOT BEGIN UNTIL SUPERSTRUCTURE SHOP DRAWINGS ARE APPROVED AND ALL CONFLICTS RESOLVED.
- 3. REINFORCEMENT IN CAP MAY BE SHIFTED TO CLEAR ANCHOR BOLTS.
- 4. THE TOP SURFACE OF THE END BENT CAPS, EXCEPT AT BRIDGE SEAT BUILD-UPS, SHALL BE SLOPED LONGITUDINALLY AT A MINIMUM RATE OF 2% AS SHOWN ON THE PLANS.
- 5. END BENT BACKWALL SHALL BE PLACED AFTER BRIDGE HAS BEEN ERECTED. TOP OF BACKWALL SHALL FOLLOW BRIDGE DECK GRADE.
- 6. THE TOP SURFACE OF THE END BENTS SHALL BE CURED IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS, EXCEPT THAT THE MEMBRANE CURING COMPOUND METHOD SHALL NOT BE USED.
- 7. APPLY AN EPOXY PROTECTIVE COATING TO THE TOP SURFACE OF THE END BENTS, EXCEPT UNDER BEARINGS. PAYMENT FOR THE EPOXY PROTECTIVE COATING SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.
- 8. END BENT BACKWALL SHALL BE PLACED PRIOR TO APPLICATION OF EPOXY PROTECTIVE COATING.

APPROACH RAILINGS

- 1. APPROACH RAILINGS SHALL BE PROVIDED AT EACH CORNER OF THE BRIDGES AS SHOWN ON THE PLANS, AND PER PREFABRICATED PEDESTRIAN BRIDGE SPECIAL PROVISIONS.

CONSTRUCTION

- 1. SPECIAL NOTE TO CONTRACTOR: CONTRACTOR SHALL USE EXTREME CARE AND TAKE ANY MEASURES NECESSARY TO ENSURE THAT NO DEBRIS IS DROPPED INTO THE WATERWAY. ANY DEBRIS WHICH IS ALLOWED TO DROP ON THE BANKS BELOW SHALL NOT BE ALLOWED TO ENTER THE CREEK AND SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. COST OF REMOVAL AND DISPOSAL OF DEBRIS SHALL BE CONSIDERED INCIDENTAL TO VARIOUS PAY ITEMS.

FOUNDATIONS

- 1. FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
- 2. STRUCTURE #2:
 - A. PILE EXCAVATION MAY BE REQUIRED TO INSTALL HP 12X53 PILES AT END BENTS NO. 1 & 2. IF PILES CANNOT BE DRIVEN TO A DEPTH OF AT LEAST 20 FEET BENEATH BOTTOM OF CAP, EXCAVATE HOLES AT PILE LOCATIONS TO AN ELEVATION AT LEAST 5 FEET BELOW TOP OF WEATHERED ROCK AT EACH PILE LOCATION. FOR PILE EXCAVATION, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.
 - B. BEFORE FILLING HOLES FOR PILE EXCAVATION AT BRIDGE END BENTS, DRIVE PILES TO THE REQUIRED DRIVING RESISTANCE.
 - C. FILL THE BOTTOM 5 FEET OF HOLES FOR PILE EXCAVATION AT END BENTS NO. 1 & 2 WITH CONCRETE OR GROUT AND THE REST OF THE HOLES WITH CLASS II OR III SELECT MATERIAL THAT MEETS SECTION 1016 OF THE STANDARD SPECIFICATIONS. AT THE CONTRACTOR'S OPTION, FILL HOLES FOR PILE EXCAVATION AT END BENTS NO. 1 & 2 ENTIRELY WITH CONCRETE OR GROUT.

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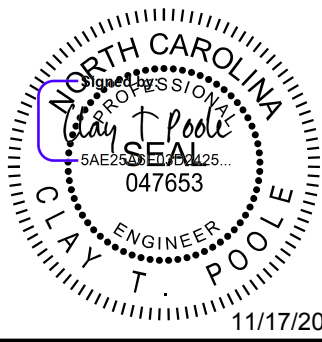
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GENERAL NOTES



PROJECT:

CLEAR CREEK GREENWAY

JOB NUMBER: 015574013

SHEET NUMBER: S-7

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