FOR CULVERT DIVERSION DETAILS AND PAY ITEM, SEE EROSION CONTROL PLANS.

AFTER SERVING AS A TEMPORARY STRUCTURE THE EXISTING STRUCTURE CONSISTING

@ 2'-5¹/4"CTS.; WITH A CLEAR ROADWAY WIDTH OF 25'-1"ON END BENTS AND INTERIOR

OF 2 SPANS: 1 @ 12'-10", 1 @ 12'-9" TIMBER FLOOR ON 11 LINES OF 12" STEEL I-BEAMS

APPROXIMATELY 50' UPSTREAM FROM PROPOSED STRUCTURE SHALL BE REMOVED. THE

THE PROPOSED STRUCTURE, A LOAD LIMIT MAY BE POSTED AND MAY BE REDUCED AS

STRUCTURAL INTEGRITY OF THE BRIDGE DETERIORATE DURING CONSTRUCTION OF

FOUND NECESSARY DURING THE LIFE OF THE PROJECT. SEE SPECIAL PROVISIONS.

FOR SALVAGE AND DELIVERY OF EXISTING 12" I-BEAMS, BEARING PLATES, TIMBER

INASMUCH AS THE PAINT SYSTEM ON THE EXISTING STRUCTURAL STEEL CONTAINS

MATERIALS CONTAINING LEAD BASED PAINT SHALL BE INCLUDED IN THE BID PRICE

THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION

DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED

BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SHOWN ON THE PLANS AND

PREVENTS DEBRIS FROM FALLING INTO THE WATER. THE CONTRACTOR SHALL SUBMIT DEMOLITION PLANS FOR REVIEW AND REMOVE THE BRIDGE IN ACCORDANCE WITH

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE

FOR ASBESTOS ASSESSMENT FOR BRIDGE DEMOLITION AND RENOVATION ACTIVITIES.

FOR LIMITS OF TEMPORARY SHORING FOR MAINTENANCE OF TRAFFIC, SEE TRAFFIC

CONTROL PLANS. FOR PAY ITEM FOR TEMPORARY SHORING FOR MAINTENANCE OF

AVAILABLE. SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE

CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED IN A MANNER THAT

BENT WITH TIMBER CAPS, TIMBER PILES POST AND SILLS AND LOCATED

EXISTING BRIDGE IS PRESENTLY NOT POSTED FOR LOAD LIMIT. SHOULD THE

FLOORING, CRUTCH BENT, CAPS AND NEW POSTS, SEE SPECIAL PROVISIONS.

LEAD, THE CONTRACTOR'S ATTENTION IS DIRECTED TO ARTICLE 107-1 OF THE

STANDARD SPECIFICATIONS. ANY COSTS RESULTING FROM COMPLIANCE WITH APPLICABLE STATE OR FEDERAL REGULATIONS PERTAINING TO HANDLING OF

FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

FOR "REMOVAL OF EXISTING STRUCTURE."

SEE SPECIAL PROVISIONS

TRAFFIC, SEE ROADWAY PLANS.

THE ACTUAL CONDITIONS AT THE PROJECT SITE.

ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

NOTES

ASSUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

DESIGN FILL ____ 2.43 FT. (MIN.), 3.73 FT. (MAX.)

FOR OTHER DESIGN DATA AND NOTES, SEE STANDARD NOTE SHEET.

3" Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN PHASE I CULVERT TO BE POURED IN THE FOLLOWING ORDER:

- 1. PHASE I WING FOOTINGS, FLOOR SLAB AND CURTAIN WALL TO THE CONSTRUCTION JOINT INCLUDING 4"OF PHASE I VERTICAL WALLS.
- 2. THE REMAINING PORTION OF PHASE I WALLS AND PHASE I WINGS FULL HEIGHT.
- 3. PHASE I SILLS

CONCRETE IN PHASE II CULVERT TO BE POURED IN THE FOLLOWING ORDER:

- 1. PHASE II WING FOOTINGS, FLOOR SLAB AND CURTAIN WALL TO THE CONSTRUCTION JOINT INCLUDING 4" OF PHASE II VERTICAL WALLS.
- 2. THE REMAINING PORTION OF PHASE II WALLS AND PHASE II WINGS FULL HEIGHT.
- 3. PHASE II SILLS.
- 4. ROOF SLAB AND HEADWALLS.

THE RESIDENT ENGINEER SHALL CHECK THE LENGTH OF CULVERT BEFORE STAKING IT OUT TO MAKE CERTAIN THAT IT WILL PROPERLY TAKE CARE OF THE FILL.

DIMENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL EMBEDDED IN BARREL ARE SHOWN ON WING SHEETS.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACES OF THE EXTERIOR WALLS AND BOTH FACES OF INTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE SPLICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE PLANS. EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE CONTRACTOR.

AT THE CONTRACTOR'S OPTION HE MAY SUBMIT, TO THE ENGINEER FOR APPROVAL, DESIGN AND DETAIL DRAWINGS FOR A PRECAST REINFORCED CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE CULVERT SHOWN ON THE PLANS. THE DESIGN SHALL PROVIDE THE SAME SIZE AND NUMBER OF BARRELS AS USED ON THE CAST-IN-PLACE DESIGN. FOR OPTIONAL PRECAST REINFORCED CONCRETE BOX CULVERT, SEE SPECIAL PROVISIONS.

FOR CONSTRUCTION SEQUENCE, SEE EROSION CONTROL PLANS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

17230

Wael Orafat

I HEREBY CERTIFY THESE PLANS ARE THE AS BUILT PLANS

14855

Douglas R. Callioun

3/17/2016

DOCUMEN

SIGNA

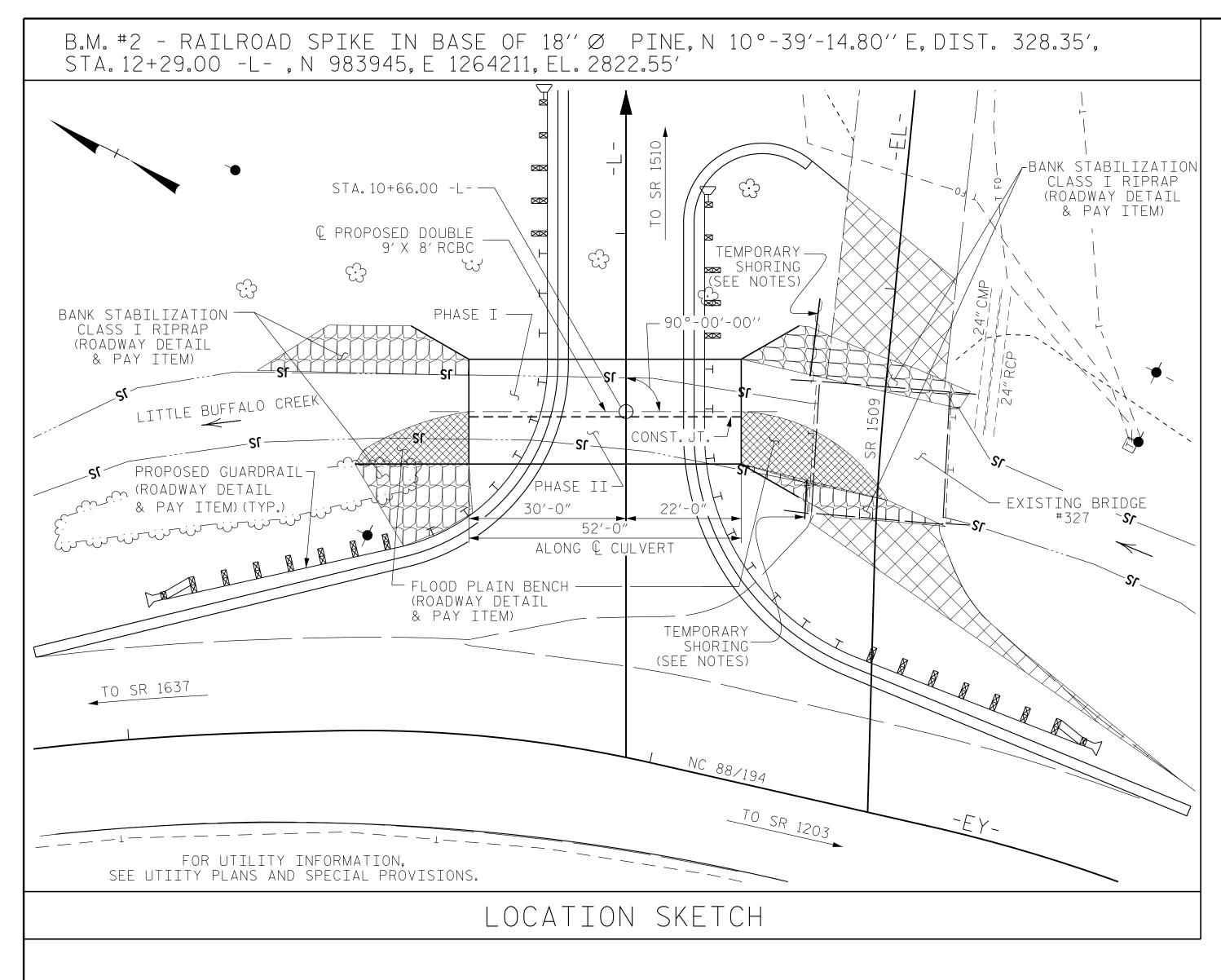
B-5147 PROJECT NO. ASHE COUNTY 10+66.00 -L-STATION:

SHEET 1 OF 9 REPLACES BRIDGE #327

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

90°-00'-00'' SKEW

2/17/2016							
3/17/2016	REVISIONS						SHEET NO.
NT NOT CONSIDERED	NO.	BY:	DATE:	NO.	BY:	DATE:	C-1
NAL UNLESS ALL	1			3			TOTAL SHEETS
TURES COMPLETED	2			4			9



60'-0'' 35'-0'' 25'-0''

PROFILE ALONG & CULVERT

HYDRAULIC DATA

DESIGN DISCHARGE ____ = 590 C.F.S FREQUENCY OF DESIGN FLOOD____ = 5+ YEARS DESIGN HIGH WATER ELEVATION = 2818.0 FT. DRAINAGE AREA _____ = 3.96 SQ. MI. BASE DISCHARGE (Q100) ____ = 1500 C.F.S. BASE HIGH WATER ELEVATION = 2820.92 FT.

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE ----- = 613 C.F.S. FREQUENCY OF OVERTOPPING FLOOD ---- = 5+ YEARS OVERTOPPING FLOOD ELEVATION = 2818.11 FT.

ROADWAY DATA

GRADE POINT ELEV. @ STATION 10+66.00 -L- = 2822.48 FT. BED ELEV. @ STATION 10+66.00 -L- = 2811.20 FT. ROADWAY SLOPES = 2:1

TOTAL STRUCTURE QUANT] CLASS A CONCRETE PHASE I ----- 49.8 C.Y PHASE II ----- 86.2 C.Y TOTAL ----- 136.0 C.Y REINFORCING STEEL PHASE T ------ 6018 LBS PHASE TT ----- 8187 LBS ΤΟΤΔΙ ----- 14205 LBS CULVERT EXCAVATION------ LUMP SUM OUNDATION COND. MAT'L PHASE T ----- 49 TONS PHASE IT -----39 TONS TOTAL -----88 TONS

EXISTING STRUCTURE------ LUMP SUN

ASBESTOS ASSESSMENT----- LUMP SUN

_ DATE : <u>12/7/1</u>5 V.X. NGUYEN DRAWN BY : _ _ DATE : <u>1/4/16</u> H.T. BARBOUR CHECKED BY : _ DESIGN ENGINEER OF RECORD: ____A.M.LEE _ DATE : <u>1/26/16</u>