OF THE FILL.

BILL OF MATERIAL

BAR NO. SIZE TYPE LENGTH

VERTICAL LEG 0411 150 RAD. 150 RAD. 1265 A2 905

BAR TYPE
DIMENSIONS ARE OUT TO OUT

-UNNAMED TRIBUTARY

TO THIRD CREEK

.CL. "B" RIP RAP

- € SURVEY -L-

NOTE: FOR UTILITY INFORMATION, SEE UTILITY PLANS AND SPECIAL PROVISIONS.

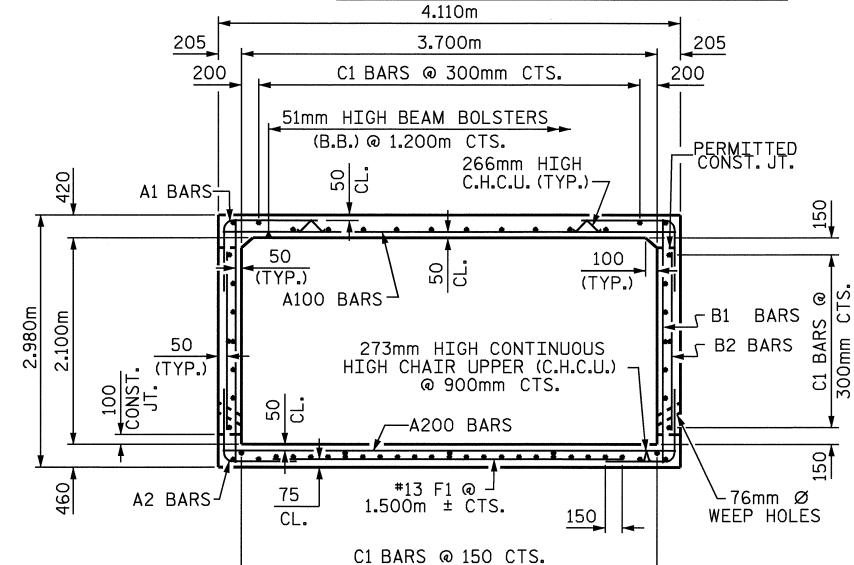
W/ FILTER FABRIC LINER

(ROADWAY PAY ITEM)

SPLICE LENGTH CHART
BAR SIZE LENGTH
B1 #13 540
C1 #13 590

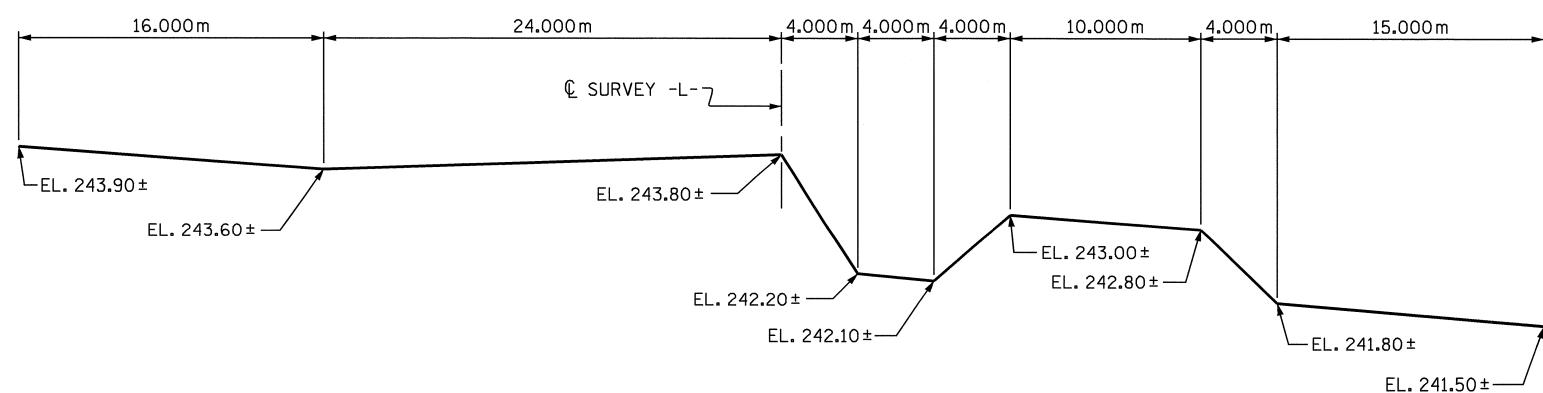
LENGTH #22 3000 4983 546 546 #22 2280 3787 A100 | 376 | #29 | STR | 3960 7534 #29 | STR | 2940 60 4 #29 STR A102 4 2000 40 #29 STR A103 4 1100 22 A200 | 376 | #29 | STR | 7534 3960 #29 | STR 2940 60 #29 40 A202 2000 #29 STR A203 1100 22 4 524 | #13 | STR | 2820 1469 B2 546 #16 | STR 1880 1593 480 | #13 | STR | 8680 4140 43 | #13 | STR | 2480 106 #13 STR 4240 17 12 #25 | STR | 4240 202

= 31609 kg



REINFORCING STEEL

RIGHT ANGLE SECTION OF BARREL
THERE ARE 60 "C" BARS IN SECTION OF BARREL



BENCHMARK: TBM 7 RR SPIKE IN 600mm OAK TREE STA. 29+67.039 -L- 16.699m LT., EL. 260.124 DATUM: NAD 83

LOCATION SKETCH

STA. 32+55.510 -L- —

SINGLE

3.7m X 2.1m RCBC-

~~70°-00′-00"

PROFILE ALONG & CULVERT

HYDRAULIC DATA

DESIGN DISCHARGE = 14.5 m³/s

FREQUENCY OF DESIGN FLOOD = 50 YEARS

DESIGN HIGH WATER ELEVATION = 244.62m

DRAINAGE AREA = 0.62 SQ. km

BASIC DISCHARGE (Q100) = 16.2m³/s

BASIC HIGH WATER ELEVATION = 244.76m

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE = 68.0m³/s
FREQUENCY OF OVERTOPPING FLOOD = 500+ YEARS
OVERTOPPING FLOOD ELEVATION = 253.03m

ROADWAY DATA

GRADE POINT ELEV. @ STATION 32+55.510 -L- = 253.052 BED ELEV. @ STATION 32+55.510 -L- = 241.940 ROADWAY SLOPES = 2:1 F.A. PROJECT NO. STP-70(75)

NOTES

ASSUMED LIVE LOAD -----MS18 OR ALTERNATE LOADING.

DESIGN FILL----9.09m

FOR OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

76mm Ø WEEP HOLES INDICATED TO BE IN ACCORDANCE WITH THE SPECIFICATIONS.

CONCRETE IN CULVERTS TO BE POURED IN THE FOLLOWING ORDER:

1. WING FOOTINGS AND FLOOR SLAB INCLUDING 100mm OF ALL VERTICAL WALLS.

2. THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY 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

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

TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT THE POURS TO A MAXIMUM OF 21.0m. LOCATION OF JOINTS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

AT THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN THE INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL COSTRUCTION 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.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

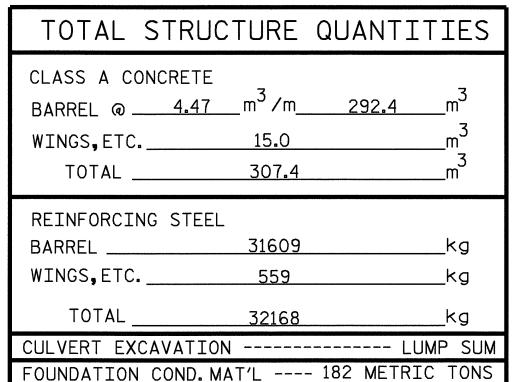
ALL ELEVATIONS ARE IN METERS.

THE CONTRACTOR SHALL PROVIDE INDEPENDENT ASSURANCE SAMPLES OF REINFORCING STEEL AS FOLLOWS: FOR PROJECTS REQUIRING UP TO 360,000kg OF REINFORCING STEEL, ONE 760mm SAMPLE OF EACH SIZE BAR USED, AND FOR PROJECTS REQUIRING OVER 360,000kg OF REINFORCING STEEL, TWO 760mm 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 THE LENGTH OF THE SAMPLE, PLUS A MINIMUM LAP SPLICE OF THIRTY BAR DIAMETERS.

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

NO PRECAST REINFORCED BOX CULVERT OPTION WILL BE ALLOWED.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.





COUNTY



SEAL

20125

SHEET 1 OF 3

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

STATION: 32+55.510 -L-

PROJECT NO. R-2911A

IREDELL

SINGLE 3.7m X 2.1m

CONCRETE BOX CULVERT 70° SKEW

REVISIONS						SHEET NO.
١0.	BY:	DATE:	NO.	BY:	DATE:	C-1
1			3			TOTAL SHEETS
2			4			6

STD. No. CBI75sm

