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JJJJUH.IJI, LL. HJ.UI	HYDRAULIC DATA
	DESIGN DISCHARGE = 390 CFS
	FREQUENCY OF DESIGN FLOOD = 50 YRS.
	DESIGN HIGH WATER ELEVATION = 40.0 FT.
E P	DRAINAGE AREA = 71 ACRES
	BASE DISCHARGE (Q100) = 440 CFS
A E	BASE HIGH WATER ELEVATION = 40.48 FT.
	OVERTOPPING FLOOD DATA
e contraction de la contractio	OVERTOPPING DISCHARGE = 600 CFS
	FREQUENCY OF OVERTOPPING FLOOD = 100+ YRS.
	OVERTOPPING FLOOD ELEVATION = 42.4 FT.
CLASS I RIP RAP	-I - CURVE DATA
WATER LINE / AND PAY ITEM,	
	P.I. STA. = 146+07.40 -L- $\Delta = 58^{\circ}-00'-14.91''(LT)$
	TANGENT = $1,446.87'$
CREEK TH SOCOOD	- IOTAL STRUCTURE QUANILITES
	CULVERT EXCAVATION @ STA.138+59.00 -L- LUMP SUM
	FOUNDATION CONDITIONING MATERIAL 235 TONS
	CLASS A CONCRETE
	BARREL @ 1.149 CU.YDS./FT 228.7 CU.YDS.
	WING ETC. 30.6 CU.YDS.
	TOTAL259.3 CU.YDS
	REINFORCING STEEL
	WINGS ETC. 1,797 LBS.
	BARREL 59,822 LBS. WINGS ETC. 1,797 LBS. TOTAL 41,619 LBS.
	BARREL 39,822 LBS. WINGS ETC. 1,797 LBS. TOTAL 41,619 LBS. PLACEMENTOF NATURAL STREAM BED MATERIAL TOTAL

41.9

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41.

42.2

42**.**

EL. 41.9± EL. 42.0± EL. 41.9± EL. 41.7± EL. 41.5±

PROFILE ALONG 🕻

TES:

SUMED LIVE LOAD = HL-93 OR ALTERNATE LOADING.

SIGN FILL = 6.91' MIN. AND 11.22' MAX.

R OTHER DESIGN DATA AND NOTES SEE STANDARD NOTE SHEET.

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

NCRETE IN CULVERT TO BE POURED IN THE FOLLOWING ORDER: .WING FOOTINGS, AND FLOOR SLAB INCLUDING 4" OF ALL

VERTICAL WALLS.

THE REMAINING PORTIONS OF THE WALLS AND WINGS FULL HEIGHT FOLLOWED BY ROOF SLAB AND HEADWALL.

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

MENSIONS FOR WING LAYOUT AS WELL AS ADDITIONAL REINFORCING STEEL BEDDED IN BARREL ARE SHOWN ON WING SHEET (SHEET 4 OF 4).

ANSVERSE CONSTRUCTION JOINTS SHALL BE USED IN THE BARREL, SPACED TO LIMIT URS TO A MAXIMUM OF 70 FEET.LOCATION OF JOINTS SHALL BE SUBJECT TO PROVAL OF THE ENGINEER.

THE CONTRACTOR'S OPTION, HE MAY SPLICE THE VERTICAL REINFORCING STEEL IN E INTERIOR FACE OF EXTERIOR WALL ABOVE LOWER WALL CONSTRUCTION JOINT. THE LICE LENGTH SHALL BE AS PROVIDED IN THE SPLICE LENGTH CHART SHOWN ON THE ANS.EXTRA WEIGHT OF STEEL DUE TO THE SPLICES SHALL BE PAID FOR BY THE NTRACTOR.

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

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

LVERT TO BE BACK FILLED WITH NATIVE MATERIAL TO A DEPTH OF 1'-O". TIVE MATERIAL CONSISTS OF MATERIAL THAT IS EXCAVATED FROM THE STREAM D AT THE PROJECT SITE DURING CULVERT CONSTRUCTION.NATIVE MATERIAL IS BJECT TO APPROVAL BY THE ENGINEER AND MAY BE SUBJECT TO PERMIT NDITIONS.

R PLACEMENT OF NATURAL STREAM BED MATERIAL, SEE SPECIAL PROVISIONS.

3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE ING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT.

R SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

R FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

R CRANE SAFETY, SEE SPECIAL PROVISIONS.

R GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

′-0″ ⊳ ∣	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	10'-0"	4'-6"		
EL. 41.4±	EL. 41.4±	EL. 41.4±	EL. 41.6±	EL. 43.2±	FI - 41.5±	EL. 40.7±	EL. 38.3± /	EL. 36.0±	EL. 35.1±		
CL	JLVE	RT_					-4	751	-1		
NFW HANOVER											
STATION. 138+59.00 -L-											
SHEET 1 OF 4											
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	NOT CONSIDERE SEAT SEAT NOT CONSIDER SEAT NOT CONSIDER SEAT NOT CONSIDER NOT CONSTRUCT NOT CONSTRUCT NO				SINGLE 11'-O"X 7'-O" CONCRETE BOX CULVERT 111°-OO'-OO"SKEW						
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	DOCL	STV EN 900 West Tr Charlot NC License	GINEERS, INC. ade St., Suite te, NC 28202 Number F-099	715 1 91 2			3 4		TOTAL SHEETS 4		