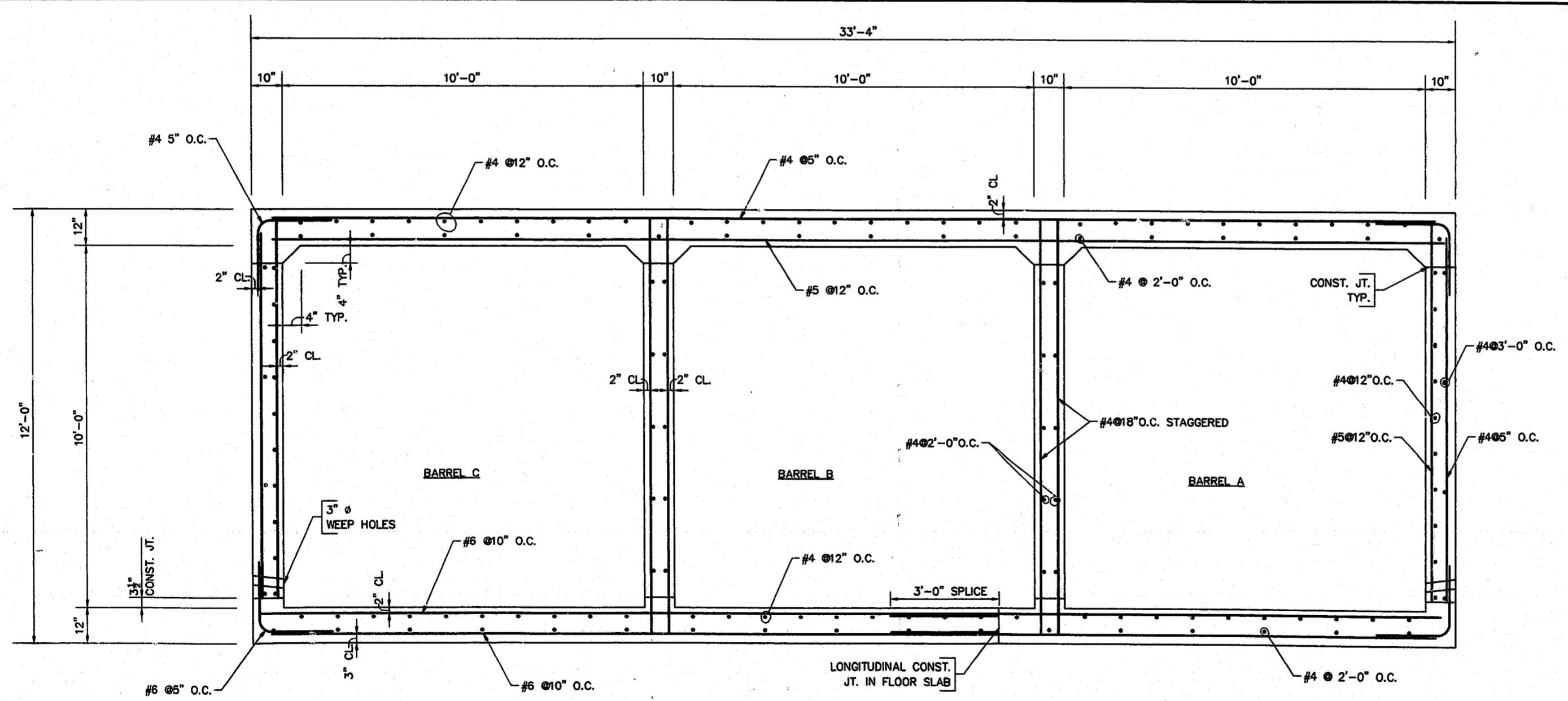


1
S1 CULVERT SECTION NORMAL TO ROADWAY 1/8" = 1'-0"



2
S1 RIGHT ANGLE SECTION OF BARREL LOOKING DOWNSTREAM 1/8" = 1'-0"

3 GENERAL NOTES

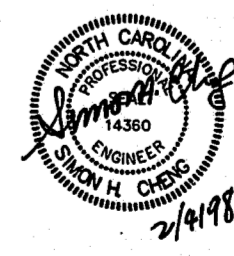
- GENERAL
- NOTES BELOW ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
 - "U.N.O." MEANS UNLESS NOTED OTHERWISE.
 - DESIGN LOADS:
 - ROADWAY: AASHTO HS-20
 - VERTICAL EARTH PRESSURE: 120 PSF
 - LATERAL EARTH PRESSURE: 35 PSF
 - ALL SAFETY REGULATIONS TO BE FOLLOWED STRICTLY. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL IS CONTRACTOR'S RESPONSIBILITY. CONSULT ENGINEER IN CASE OF QUESTIONS.

- FOUNDATIONS
- FOUNDATION PREPARATION SHALL BE IN ACCORDING WITH REPORT OF SUBSURFACE INVESTIGATION BY GEO TECHNOLOGIES PROJECT NO. 1-96-0899-EA.
 - WALLS ACTING AS RETAINING WALLS SHALL NOT BE BACKFILLED WITHOUT BRACING UNTIL ALL SUPPORTING SOIL AND SLABS ARE IN PLACE AND AT ADEQUATE STRENGTH.
 - COMPACT ALL FILL UNDER FOOTINGS TO 98% MAXIMUM DENSITY AS DETERMINED BY ASTM D698. PLACE IN LAYERS 9" MAXIMUM LOOSE THICKNESS. VERIFY FIELD DENSITY, ASTM D1556, WITH AT LEAST ONE TEST PER 2000 SQ FT PER LAYER. SEE SPECIFICATIONS FOR OTHER REQUIREMENTS.

- CONCRETE
- CONCRETE COMPRESSIVE STRENGTH IN 28 DAYS:
 - ALL CONCRETE: 3000 PSI
 - REINFORCING: ASTM A615 - GRADE 60, U.N.O. ALL REINF. TO BE OF WELDABLE GRADE WHERE WELDING SHOWN ON DRAWINGS.
 - BAR DETAILS AND SUPPORTS: ACI DETAILING MANUAL AND BUILDING CODE. LAP ALL SPLICES 48 TIMES THE BAR DIAMETER, U.N.O.
 - CLEAR DISTANCE FROM FACE OF CONCRETE TO MAIN STEEL:
 - CAST IN PLACE CONCRETE:
 - SLABS: 2"
 - WALLS, PEDESTALS: 1 1/2"
 - FOOTINGS: 2"
 - SLABS EXPOSED TO EARTH AND WEATHER: 3"
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEER FAR ENOUGH IN ADVANCE OF THE TIME EACH CONCRETE POUR IS TO BE MADE TO ALLOW AMPLE TIME TO CHECK THE LAYOUT OF THE STEEL BEFORE THE BEGINNING OF THE ACTUAL POUR, BUT NOT IN ADVANCE OF THE TIME THAT 90% OF THE STEEL HAS BEEN PLACED.
 - A 3/8" CHAMFER IS TO BE PROVIDED FOR CONCRETE EDGES REQUIRING CHAMFER.

- PVC WATERSTOP
- PVC WATERSTOP SHALL BE EXTRUDED FROM AN ELASTOMERIC PLASTIC COMPOUND CONSISTING OF VIRGIN POLYVINYL CHLORIDE AND ADDITIONAL RESINS, PLASTICIZERS AND STABILIZERS TO MEET OR EXCEED THE REQUIREMENTS AND PERFORMANCE CRITERIA OF CROPS OF ENGINEERS SPEC. GRD-C-572-74.

FOR CONSTRUCTION APPROVED
97-57-248
RCS 3-2-98
TM 3-2-98



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Revisions			
No.	Description	Date	By

CARY GLEN LAKE AND DAM
CARY, NORTH CAROLINA

CULVERT STRUCTURE LAYOUT & NOTES

Designer	SHC	Scale	1/8" = 1'
Drawn By	MP	Date	2/4/98
Checked By	SHC	Job No.	97-102

CAD File
Sheet No. **BX-1**
of.