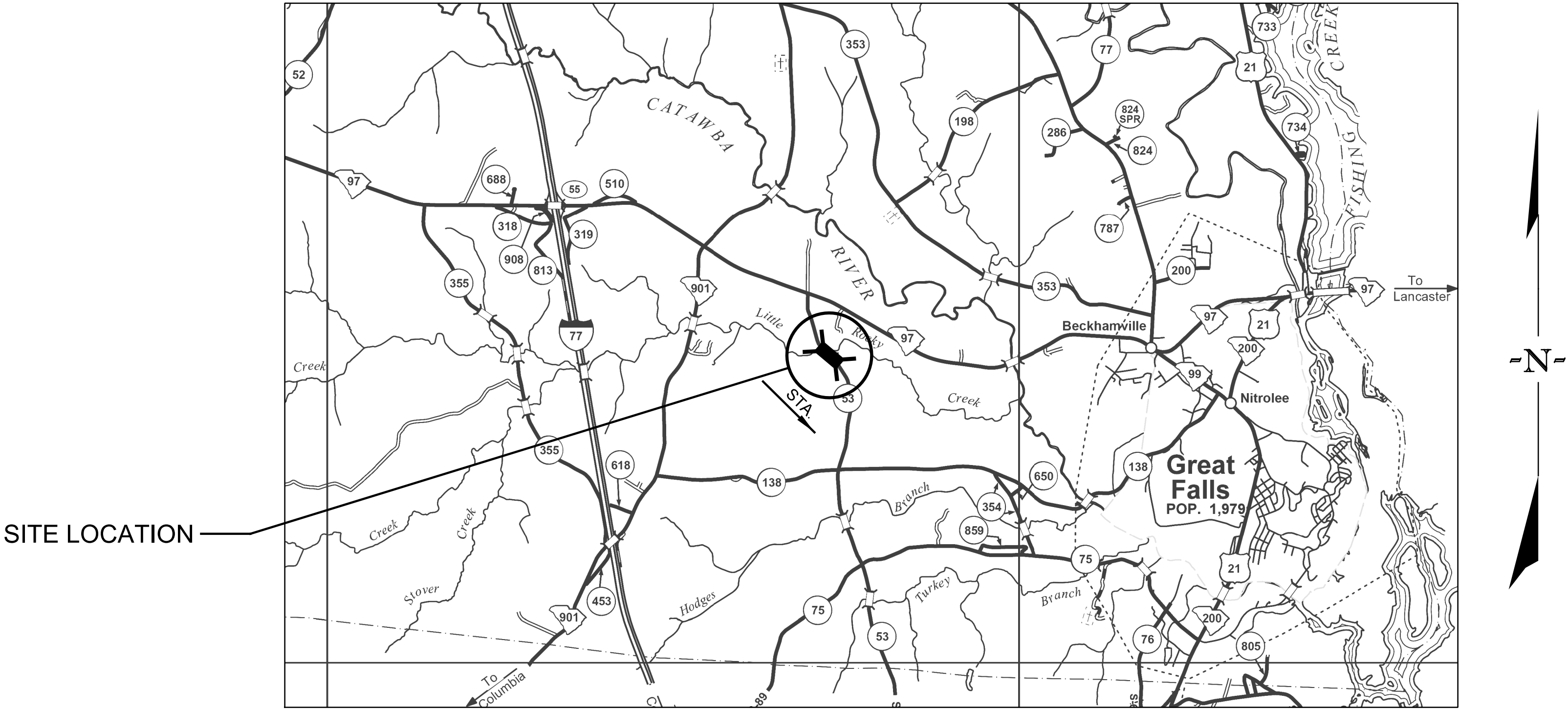


- INDEX OF SHEETS
1. TITLE SHEET
 2. BRIDGE PLAN AND PROFILE
 3. BRIDGE TYPICAL SECTION



PROPOSED PLANS
FOR
CHESTER COUNTY
PROJECT ID P041153
STATE ROUTE S-12-53 (ROSS DYE ROAD)
REPLACE BRIDGE OVER LITTLE ROCKY CREEK



Approximate Location of Bridge is
Latitude 34°-35'-24" N
Longitude 80°-58'-26" W

LAYOUT

3 DAYS BEFORE DIGGING IN
SOUTH CAROLINA
CALL 811
SOUTH CAROLINA 811 (SC811)
WWW.SC811.COM
ALL UTILITIES MAY NOT BE A MEMBER OF SC811

ASSET ID NOT ASSIGNED

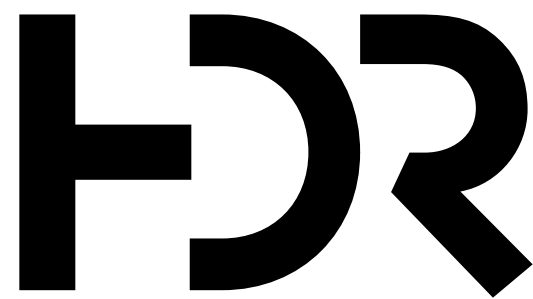
TRAFFIC DATA

2020 ADT 550 V.P.D.
2040* ADT 803* V.P.D.
TRUCKS 9 %
*DESIGN TRAFFIC DATA

NET LENGTH OF ROADWAY	0.000	MILES
NET LENGTH OF BRIDGES	0.065	MILES
NET LENGTH OF PROJECT	0.065	MILES
LENGTH OF EXCEPTIONS	0.000	MILES
GROSS LENGTH OF PROJECT	0.065	MILES

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT SHALL CONFORM TO THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (2007 EDITION) AND THE STANDARD DRAWINGS FOR ROAD CONSTRUCTION IN EFFECT AT THE TIME OF LETTING.

CONSULTING ENGINEERING FIRM



ENGINEER OF RECORD

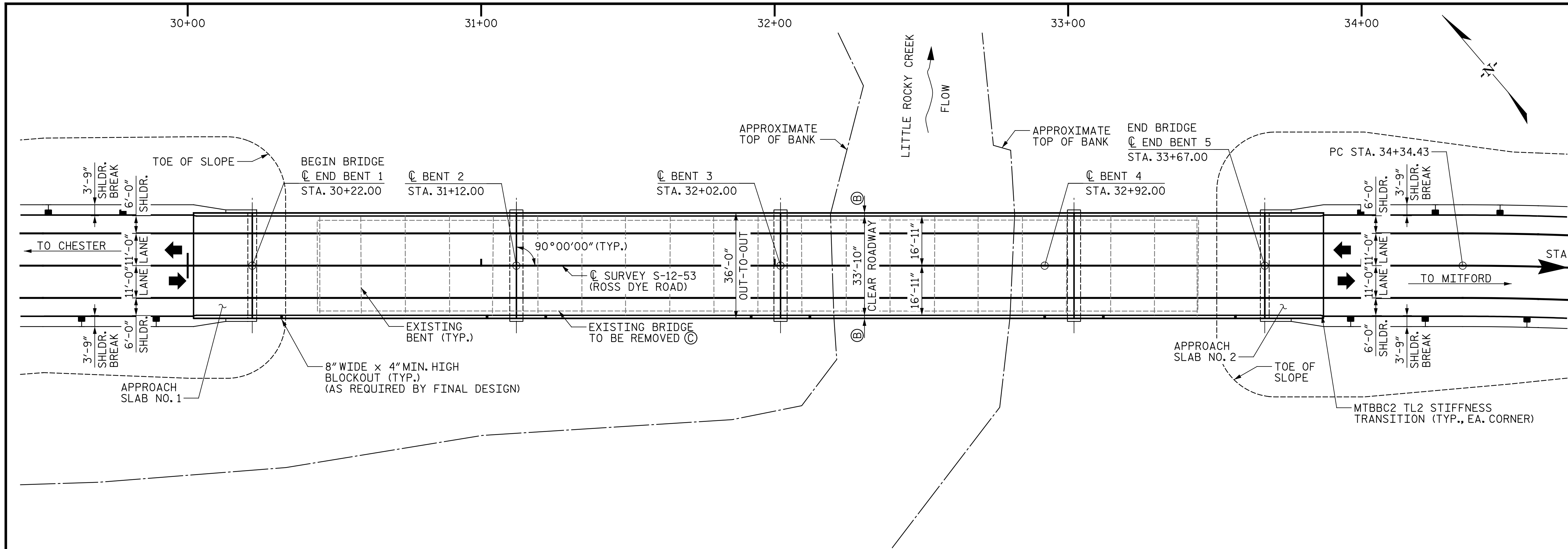
CONCEPTUAL
PLANS
NOT FOR
CONSTRUCTION

FOR CONSTRUCTION : _____
DATE _____

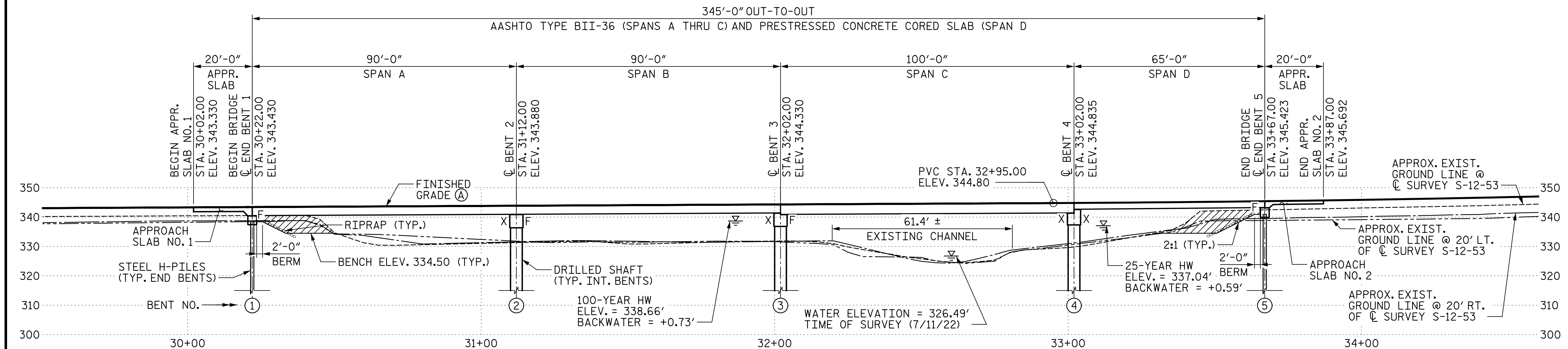
REVIEWED	DR.	RAM	DJS	11-22	DATE

RMCKENNA
11-14-22
bP041153-B01_is.dgn

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PLOTTED DATE: 11-14-22
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PLAN



SECTION ALONG CL SURVEY S-12-53

HYDROLOGY DATA

D.A. = 52.9 SQ. MILES
Q.25 = 6,038 CFS
VELOCITY.25 = 3.58 FPS
AREA FURNISHED UNDER.25 = 1,842 SQ. FT.
Q.100 = 8,191 CFS
VELOCITY.100 = 3.79 FPS
AREA FURNISHED UNDER.100 = 2,303 SQ. FT.

OVERTOPPING FLOOD

Q = 10,824 CFS
PROBABILITY < 0.2%

REV.			
REV.			
REV.			
REVIEWED			
QUAN.			
DR.	RAM	DJS	11-22
DES.			

NOTES:

- (A) PROPOSED PROFILE SET SO THAT THE NEW LOW CHORD ELEVATION IS AT OR ABOVE THE EXISTING LOW CHORD ELEVATION.
- (B) INCLUDES 1'-0" MASH BARRIER PARAPET AND 1" SLAB EXTENSION.
- (C) REMOVE AND DISPOSE OF EXISTING 33'-0" x 300'-0" ± 20-SPAN SIMPLE CONCRETE SLAB BRIDGE, APPURTENANCES, AND REMNANTS FROM PREVIOUS STRUCTURES IN ACCORDANCE WITH SECTION 202.4.2 OF THE STANDARD SPECIFICATIONS.

F - DENOTES FIXED BEARING

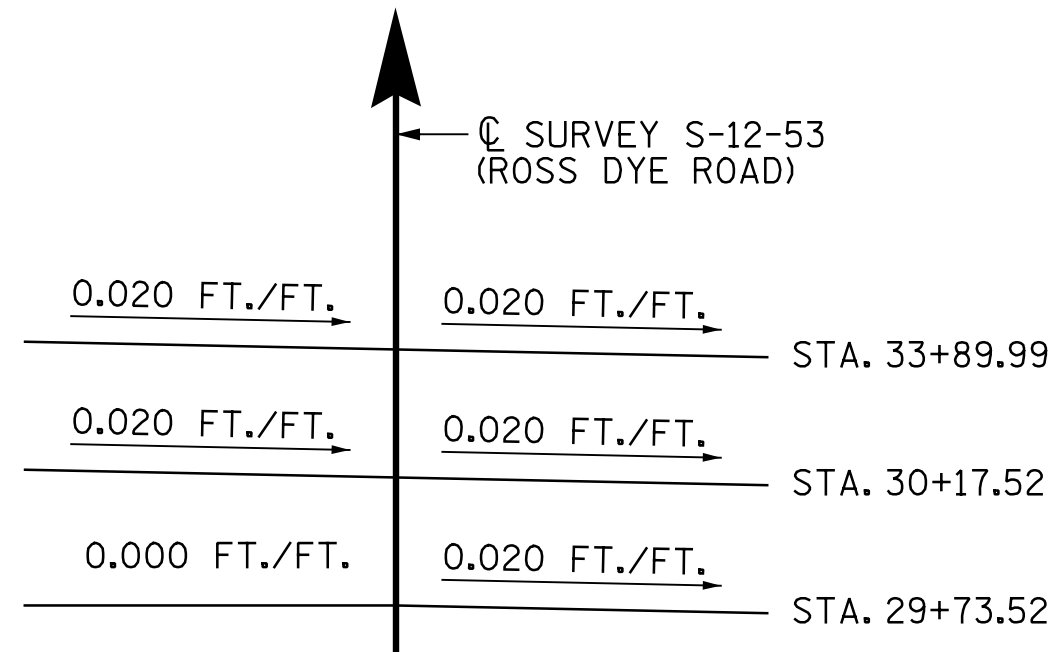
X - DENOTES EXPANSION BEARING

▨ = EXCAVATE HATCHED AREA

CONTROL POINTS

CP3
ELEVATION = 340.63'
N 1003383.14 E 2007374.03
8" NAIL

CP4
ELEVATION = 341.56'
N 1002946.45 E 2007865.30
PK NAIL



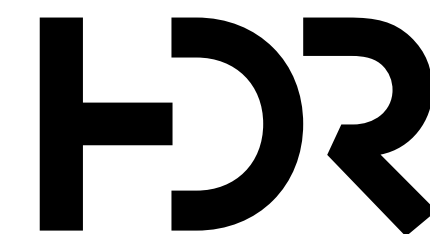
SUPERELEVATION SKETCH

VERTICAL CURVE DATA

PVI = 36+20.00
ELEV. 346.42
V.C. = 650'

+0.50% Δ +7.22%

CONCEPTUAL
PLANS



HDR ENGINEERING INC.
OF THE CAROLINAS
1201 MAIN STREET
SUITE 800
COLUMBIA, SC 29201
803-509-6600

NOT FOR
CONSTRUCTION

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

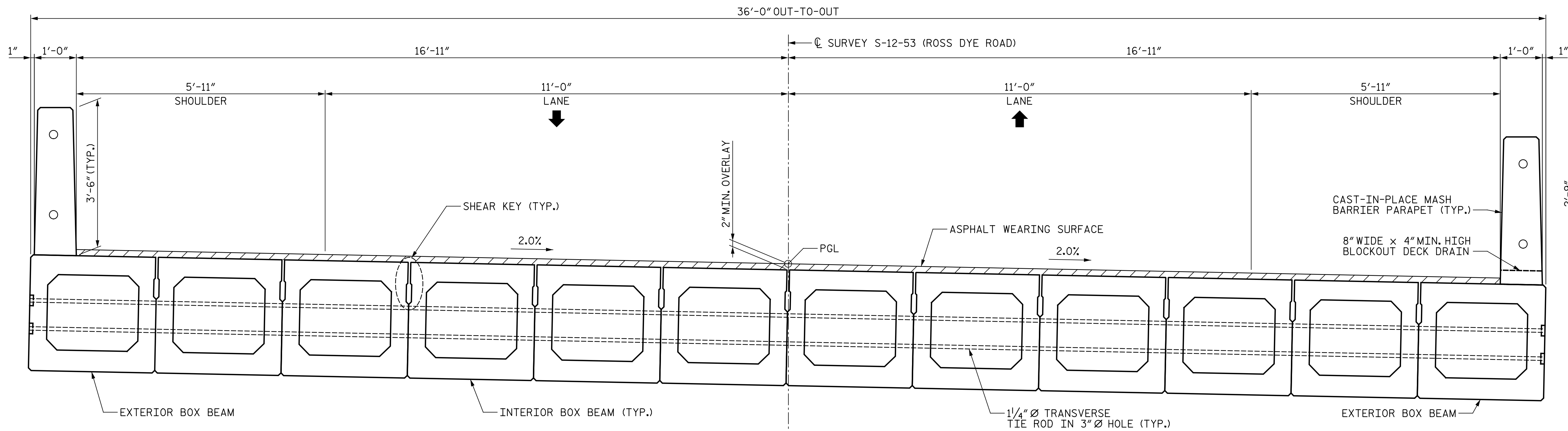
BRIDGE PLAN AND PROFILE

S-12-53 (ROSS DYE ROAD) BRIDGE REPLACEMENT
OVER LITTLE ROCKY CREEK

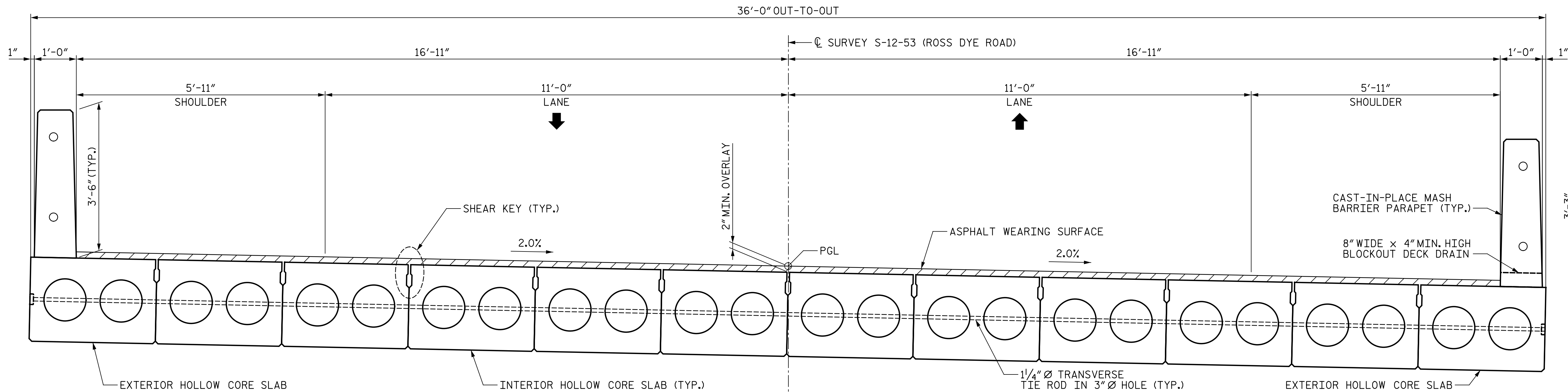
COUNTY
CHESTER

ROUTE
S-12-53

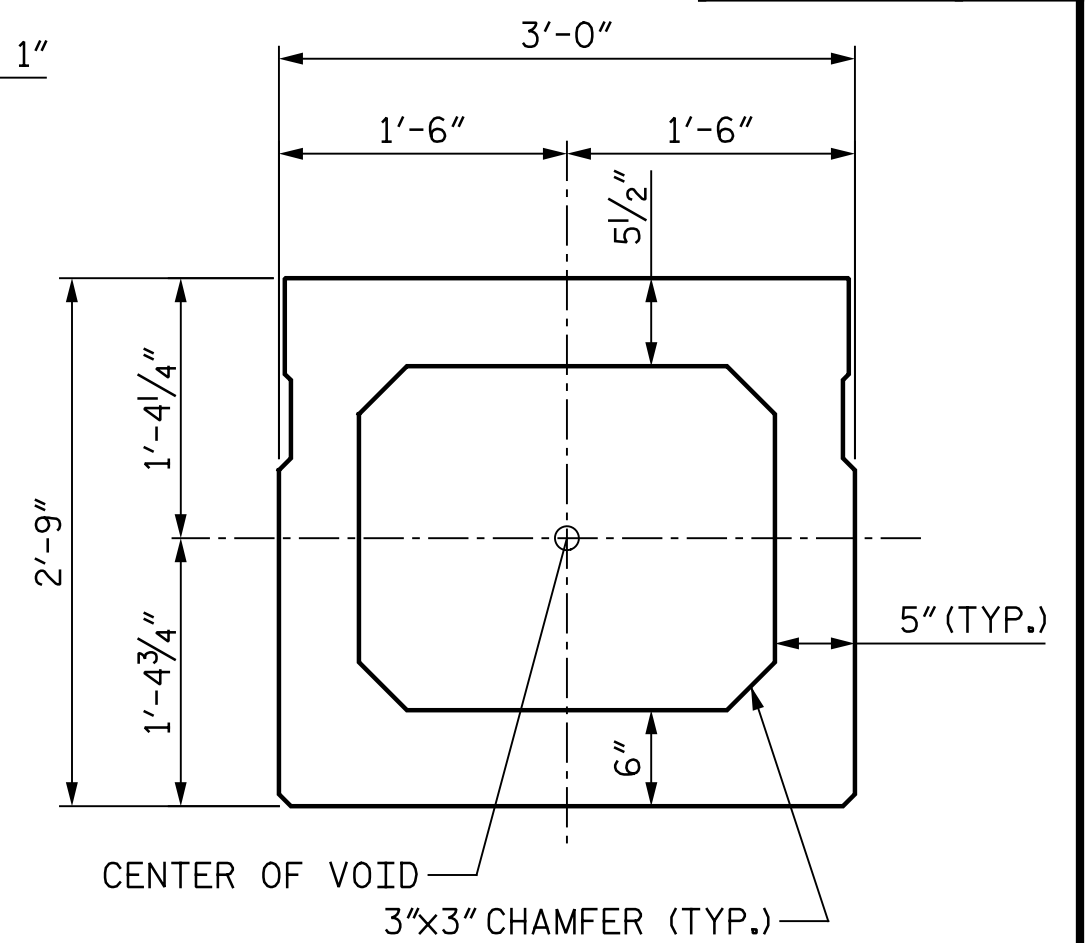
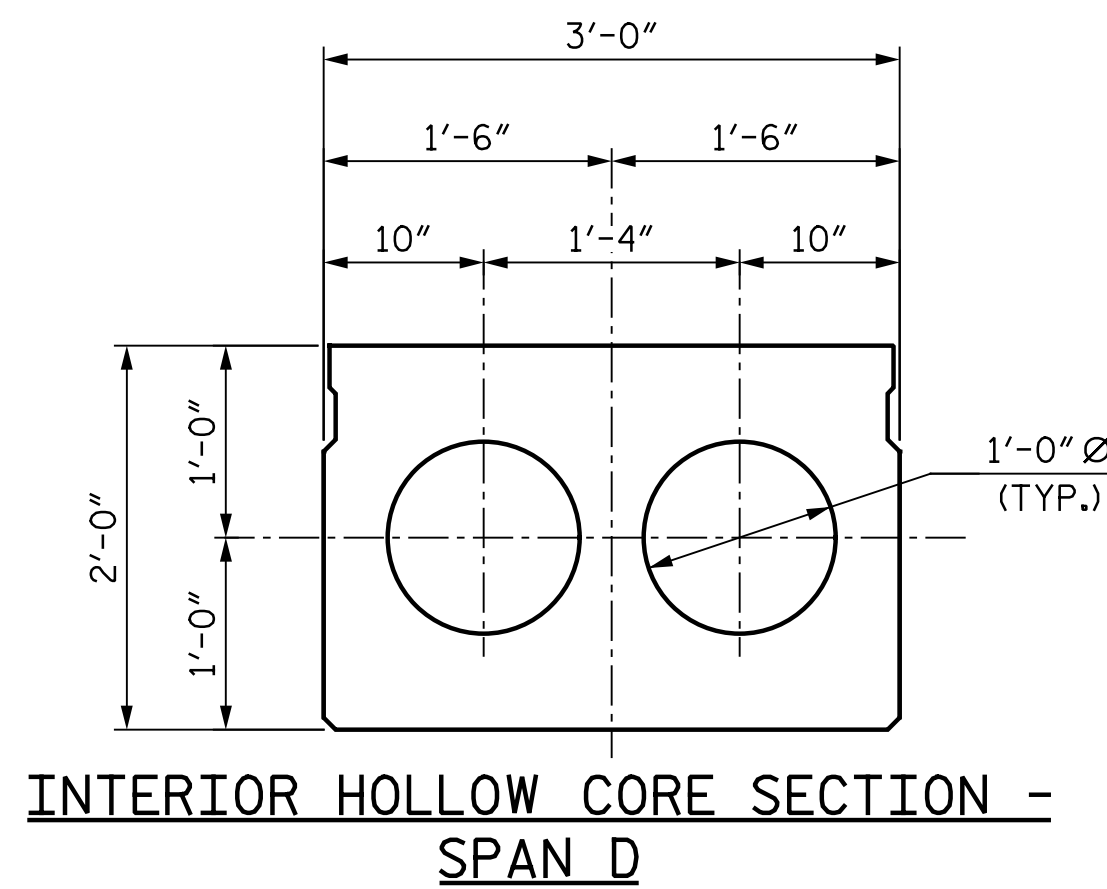
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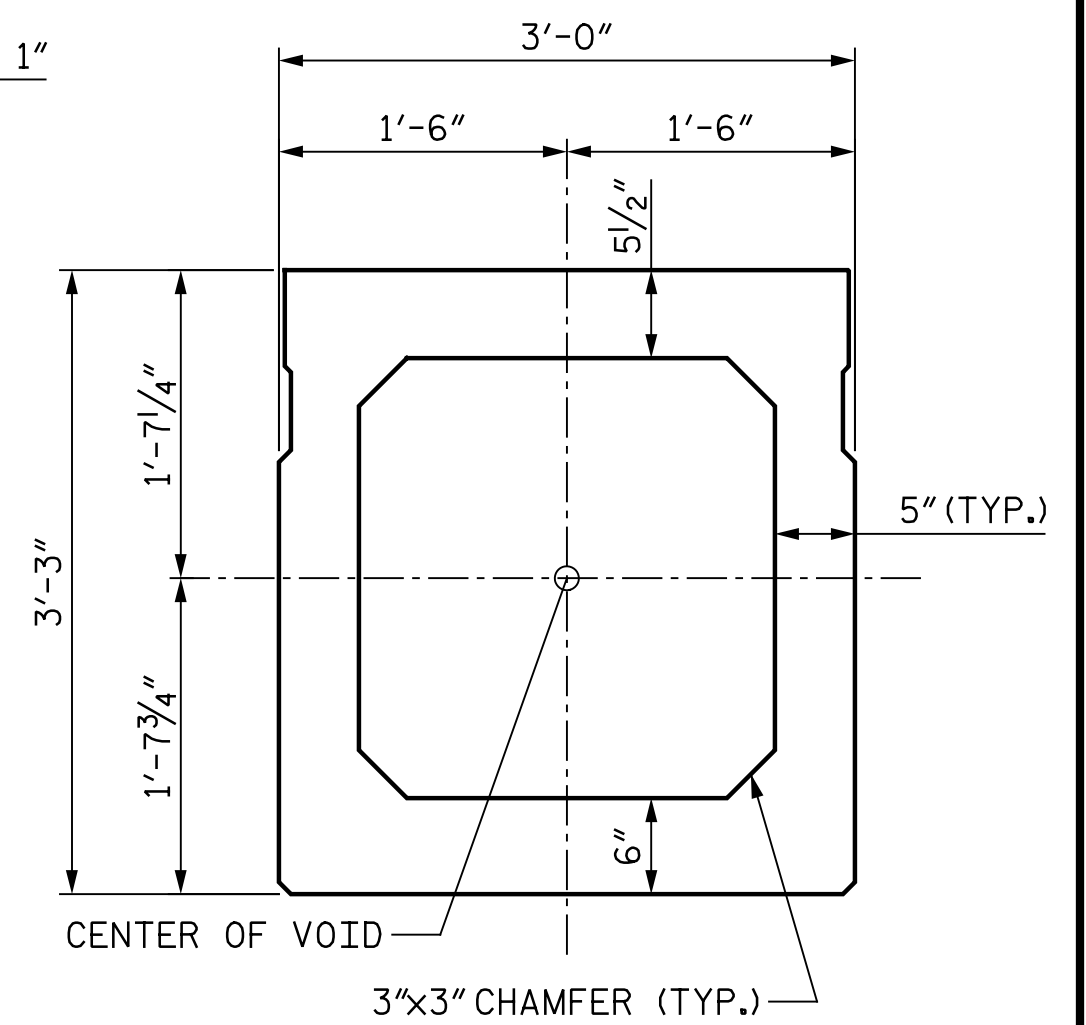
TYPICAL SECTION - SPANS A THRU C
(LOOKING IN DIRECTION OF STATIONING)



TYPICAL SECTION - SPAN D
(LOOKING IN DIRECTION OF STATIONING)



INTERIOR BOX BEAM SECTION - SPANS A & B

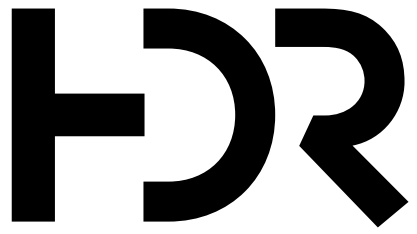


INTERIOR BOX BEAM SECTION - SPAN C

REV.			
REV.			
REV.			
REVIEWED			
QUAN.			
DR.	RAM	DJS	11-22
DES.			

CONCEPTUAL PLANS

NOT FOR CONSTRUCTION



HDR ENGINEERING INC.
OF THE CAROLINAS
1201 MAIN STREET
SUITE 800
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803-509-6600

SOUTH CAROLINA
DEPARTMENT OF TRANSPORTATION

BRIDGE TYPICAL SECTION
S-12-53 (ROSS DYE ROAD) BRIDGE REPLACEMENT
OVER LITTLE ROCKY CREEK

COUNTY
CHESTER

ROUTE
S-12-53