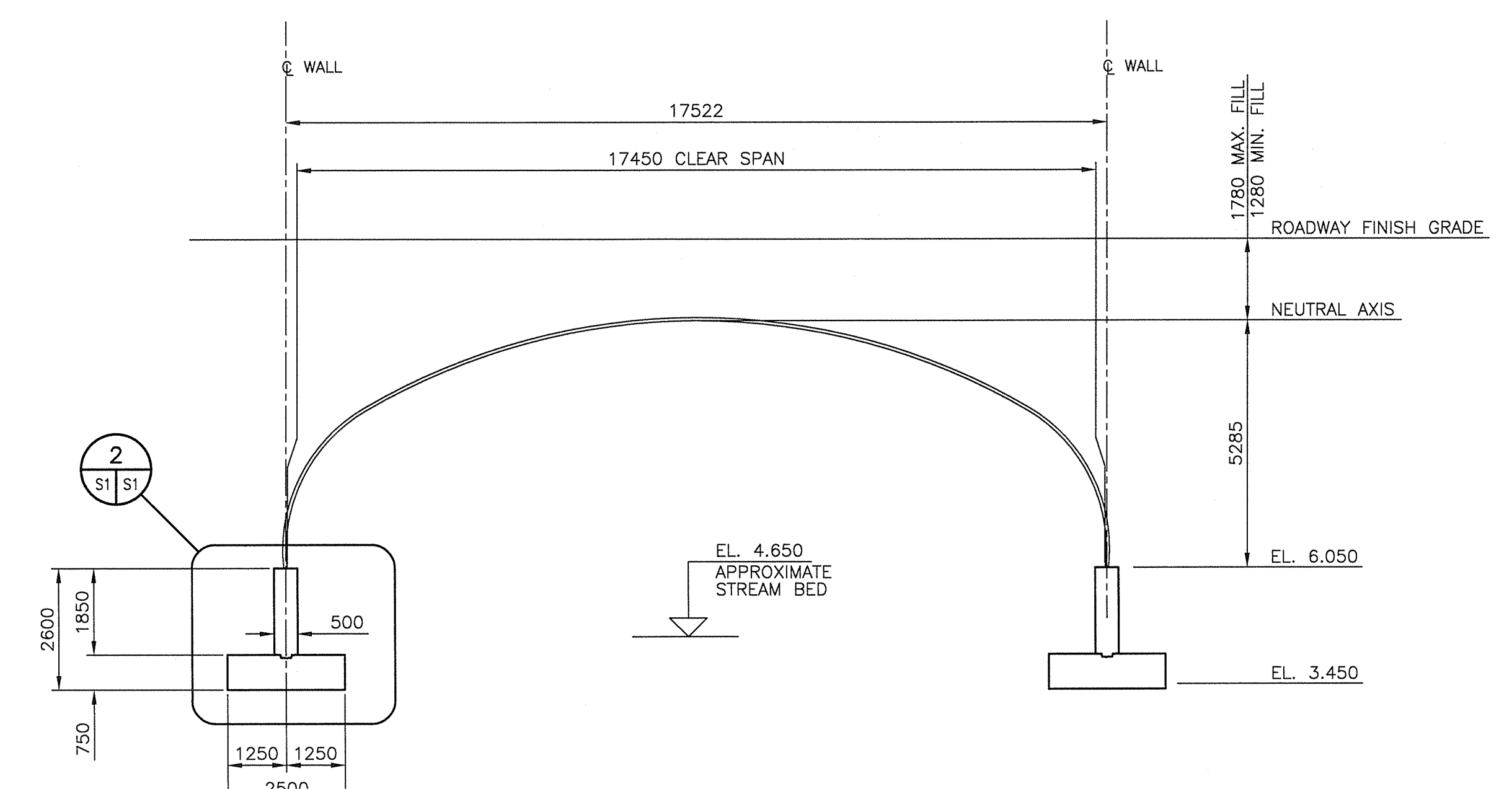
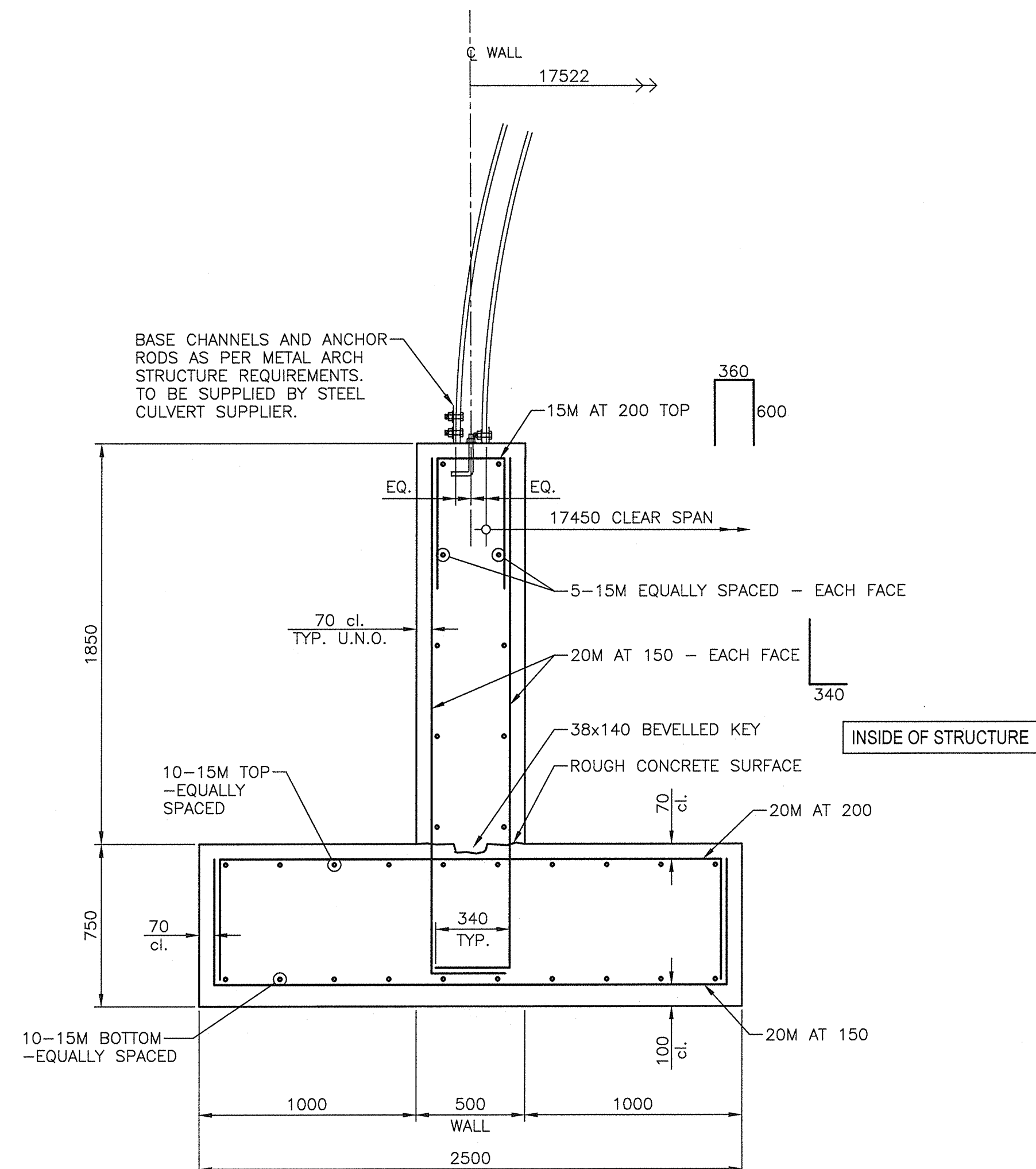


FOUNDATION PLAN
SCALE : 1:100

No.	EASTING	NORTHING
WP1	658528.7733	5176689.3438
WP2	658515.4822	5176689.0395
WP3	658523.1529	5176682.6239
WP4	658530.8236	5176676.2082
WP5	658526.7230	5176702.4793
WP6	658534.3937	5176696.0637
WP7	658542.0644	5176689.6481



CENTRELINE CROSS-SECTION
SCALE : 1:100



DETAIL
SCALE : 1:20

NOTES:

LOAD	COVER	DEAD	LOAD	LIVE	LOAD	SEISMIC
W/M	m	F ₁	F ₂	F ₃	F ₄	F ₅
UNFACTORED	128	85.0	40.0	56.0	8.0	22.0
FACTORED	128	85.0	50.0	78.4	11.2	22.0
UNFACTORED	178	77.0	48.0	53.0	5.0	28.0
FACTORED	178	88.8	60.0	74.2	7.0	28.0

SOIL PRESSURE ON FOUNDATION STRUCTURE WAS BASED ON AN EQUIVALENT FLUID PRESSURE OF 7.0 kPa.

THE FOOTING DESIGN WAS BASED ON ULS MINIMUM SOIL BEARING CAPACITY OF 100 kPa. A COEFFICIENT OF FRICTION OF 0.50 WAS USED TO ENSURE RESISTANCE OF FOUNDATION STRUCTURE FROM SLIDING UNDER HORIZONTAL LOADS.

ANY DEVIATION FROM THE ABOVE LOADING ON THE CULVERT FOUNDATION WILL REQUIRE VERIFICATION BY A QUALIFIED ENGINEER REGISTERED OR LICENSED IN THE PROVINCE OF NEW SCOTIA. ADDITIONAL COST FOR ENGINEERING AND MODIFICATIONS TO FOUNDATION STRUCTURE WILL BE ASSUMED BY CONTRACTOR.

CONTRACTOR IS TO CONFIRM IN WRITING THAT THE SOIL BELOW FOUNDATION WAS CHECKED FOR SETTLEMENT IN ACCORDANCE WITH ARCH SUPPLIER PRIOR TO INSTALLATION OF ARCH.

BACKFILLING AROUND INSTALLATIONS:
DO NOT BACKFILL AROUND OR OVER CAST-IN-PLACE CONCRETE WITHIN 24 HOURS AFTER PLACING OF CONCRETE.

PLACE LAYERS SIMULTANEOUSLY ON BOTH SIDES OF INSTALLED WORK TO EQUALIZE LOADING. DIFFERENCE NOT TO EXCEED 600mm.

FOUNDATION CONSTRUCTION IS NOT TO PROCEED UNTIL CONTRACTOR HAS SUBMITTED CSP CULVERT ENGINEER-STAMPED DRAWINGS COMPLETE WITH REVISIONS.

GEOTECHNICAL INFORMATION:
THE DESIGN OF THE FOUNDATION SYSTEM HAS BEEN BASED ON ASSUMED SUITABLE SOIL CONDITIONS AS PER INFORMATION PROVIDED IN THE GEOTECHNICAL INVESTIGATION REPORT, PROJECT NUMBER 121618417, DATED JULY 31, 2015, PREPARED BY STANTEC CONSULTING LTD. ACTUAL SOIL CONDITIONS TO BE FIELD VERIFIED AT TIME OF CONSTRUCTION.

UNLESS OTHERWISE DIRECTED BY ENGINEER, RECOMMENDATIONS IN THE GEOTECHNICAL REPORT ARE TO BE REGARDED AS MINIMUM REQUIREMENTS.

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0 ISSUED FOR TENDER 30/10/2015

ROAD REALIGNMENT AND CULVERT REPLACEMENT CORNEY BROOK
CAPE BRETON HIGHLANDS NATIONAL PARK
INVERNESS COUNTY, NS

CORNEY BROOK CULVERT FOUNDATION PLAN
SECTIONS AND DETAILS

designed J.M. CHEVAREE
date 16/10/15
drawn J. MITTON
date 16/10/15
approved R. VALE
date 16/10/15
render K. McCARTHY
PWSGC Project Manager
project number R.077166.001
drawing no. S-01