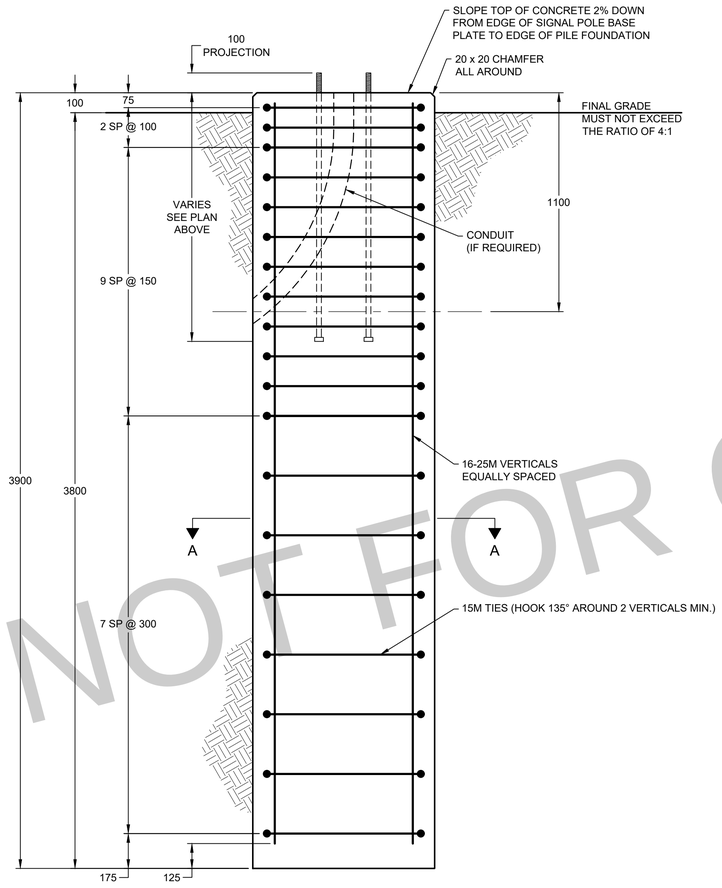

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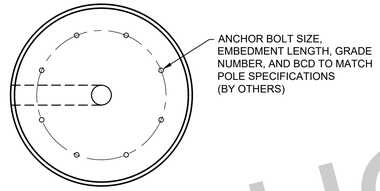

PLAN
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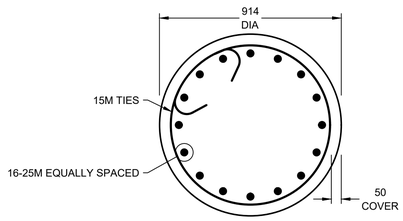

SECTION A-A
Scale 1:15

CONSTRUCTION NOTES

1) DESIGN STANDARD CAN/CSA S6-14 SUPPLEMENTARY: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS 2009
2) THE ENGINEERING SEAL ON THIS DRAWING RELATES TO THE DESIGN OF CONCRETE FOUNDATION ONLY AND IS BASED ON ASSUMED DESIGN LOADS AND DESIGN SOIL PARAMETERS AS THIS INFORMATION WAS UNAVAILABLE AT THE TIME OF DESIGN. FACTORED AND UNFACTORED LOADS AT THE BASE OF SIGNAL POLE SHALL BE SUBMITTED BY THE CONTRACTOR AT LEAST TWO WEEKS PRIOR TO THE PREPARATION OF REBAR CAGE SHOP DRAWING, SUCH THAT THE PILE FOUNDATION DESIGN CAN BE VERIFIED BY THE DESIGN ENGINEER. WSP GEOTECHNICAL ENGINEER WILL ALSO NEED TO VERIFY THE ACCEPTABILITY OF THE SOIL BASED ON THIS NEW INFORMATION.
3) ANCHOR BOLT DESIGN INCLUDES LOCATIONS, EMBEDMENT, SIZE, MATERIAL, AND QUANTITY TO BE AS PER POLE SUPPLIER REQUIREMENTS
4) REINFORCING TO BE GRADE 400R DEFORMED BARS AS PER CSA G30.18
5) CONCRETE TO BE TYPE HS CEMENT WITH 100±30 MM SLUMP AND MINIMUM COMPRESSIVE STRENGTH OF 35 MPA AT 28 DAYS.
6) MINIMUM CONCRETE STREGTH PRIOR TO INSTALLING THE SIGN STRUCTURE ON THE FOUNDATION SHALL BE 28 MPa
7) TEMPORARY STEEL CASINGS WILL BE REQUIRED TO FACILITATE CONSTRUCTION WHERE THICK SAND LAYERS AND/OR SEEPAGE ZONES ARE ENCOUNTERED DURING PILE INSTALLATION TO CONTROL CAVING AND GROUNDWATER SEEPAGE SUCH THAT PILES ARE CAST IN CLEAN, DRY HOLES
8) VISUAL INSPECTION OF THE PILE BASE SHALL BE PERFORMED BY WSP GEOTECHNICAL ENGINEER TO CONFIRM THAT THE PILE BASE IS ACCEPTABLE BEFORE CONCRETE PLACEMENT
9) THIS DRAWING IS INTENDED TO BE USED ONLY FOR CROSSING SIGNALS SHOWN ON DRAWINGS R-200-EB AND R-201-WB. ANY OTHER USE SHALL BE VERIFIED WITH THE DESIGN ENGINEER
10) CONTRACTOR SHALL VERIFY EXISTING STRUCTURES AND UTILITIES PROIR TO PREPARATION OF SHOP DRAWINGS, FABRICATION, AND EXCAVATION. ANY DISCREPANCY OR CONFLICTS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
11) SIGNAL POLE AND STRUCTURE, ANCHOR BOLTS AND PLATES SHALL BE HOT-DIP GALVANIZED PER ASTM 123M. NUTS AND WASHERS SHALL BE ZINC-PLATED AS PER ASTM B633.
12) ALL DIMENSIONS SHOWN ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE NOTED.

B.M.
ELEV.

CONSTRUCTION COMPLETION DATE:

NO.	REVISIONS	DATE	BY
0	ISSUED FOR TENDER	2020-01-09	JM

wsp

DESIGNED BY	HAA (WSP)	CHECKED BY	HOA (WSP)
DRAWN BY	JM (WSP)	APPROVED BY	RY (WSP)
SCALE: HORIZONTAL	AS SHOWN	RELEASED FOR CONSTRUCTION	
VERTICAL	AS SHOWN		
DATE	2020 01 27	DATE	2019-12-20

PLOT DATE: 2020 01 27

ENGINEER'S SEAL

CONSULTANT DRAWING NUMBER
S-100

BID OPPORTUNITY: XXX-20XX
CONTRACT NUMBER: X

Winnipeg

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

THE GREATER WINNIPEG WATER DISTRICT RAILWAY
PTH 1 HIGHWAY CROSSING WARNING SYSTEMS Mi.67.18 & Mi.67.28

GWWD CROSSING WARNING SYSTEM TYPICAL FOUNDATION

SHEET 001 OF 001

CITY DRAWING NUMBER
1-0754R-S0001-001

FILE PATH: \\CAWNP100DAT01\Project\Rail and Transit\Projects\2019\19M-00938-00 - GWWD Crossing Protection Replacement\5 Prof. Services\53 Transportation\E4 Drawing\
FILE NAME: 19M-00938-00 - GWWD Crossing Pole Base_0109_.dwg