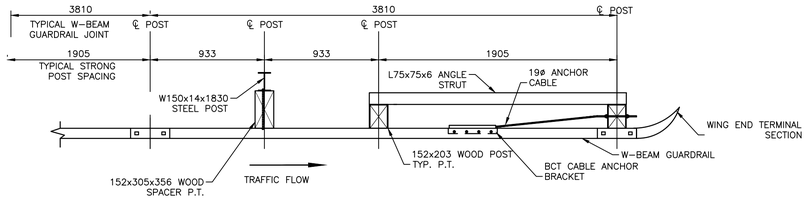
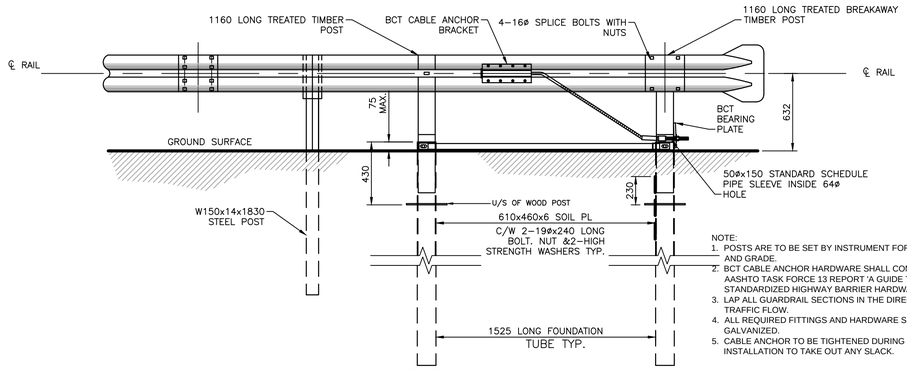
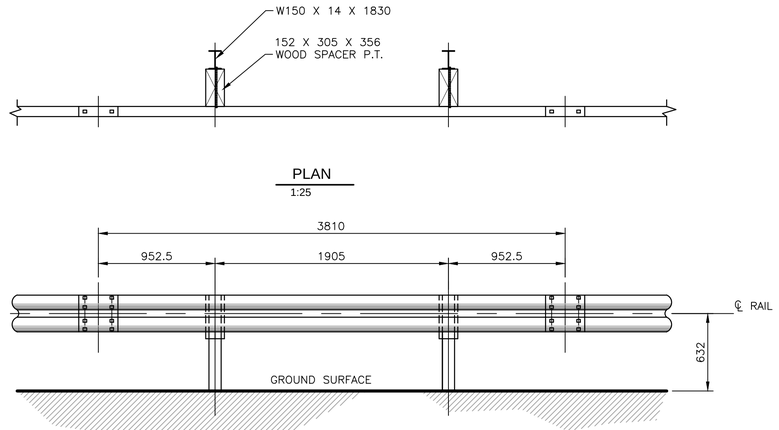


PLAN
SCALE N.T.S



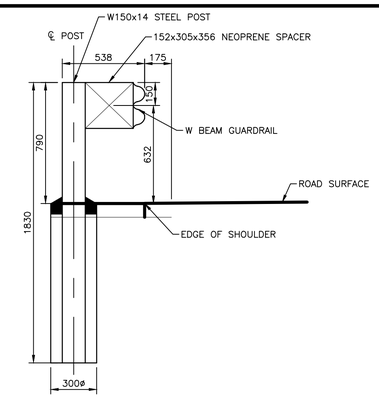
NOTE:
1. POSTS ARE TO BE SET BY INSTRUMENT FOR ALIGNMENT AND GRADE.
2. BCT CABLE ANCHOR HARDWARE SHALL CONFORM TO AASHTO TASK FORCE 13 REPORT 'A GUIDE TO STANDARDIZED HIGHWAY BARRIER HARDWARE'.
3. LAP ALL GUARDRAIL SECTIONS IN THE DIRECTION OF TRAFFIC FLOW.
4. ALL REQUIRED FITTINGS AND HARDWARE SHALL BE GALVANIZED.
5. CABLE ANCHOR TO BE TIGHTENED DURING INSTALLATION TO TAKE OUT ANY SLACK.

CABLE ANCHOR TERMINAL ELEVATION

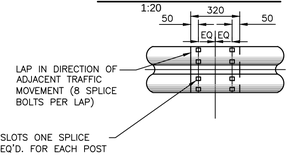


PLAN
1:25

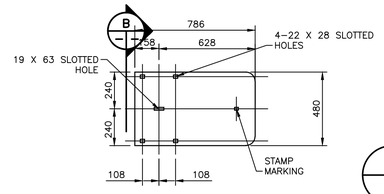
ELEVATION
1:25



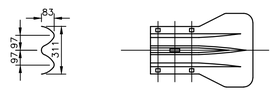
POST SPACER DETAILS
1:20



RAIL SPLICE DETAIL
1:20

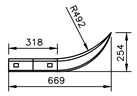


BLANK LAYOUT
1:20



B SECTION B
N.T.S.

ELEVATION
1:20

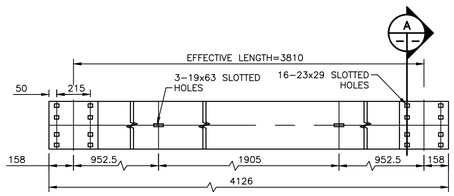


PLAN
1:20

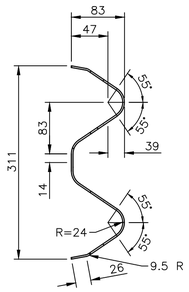
THICKNESS OF STEEL=2.82mm AFTER GALVANIZING

W-BEAM GUARDRAIL END SECTION

SCALE N.T.S



ELEVATION

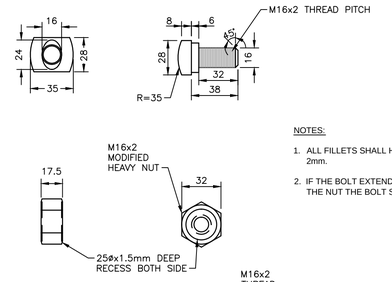


A SECTION A
N.T.S.

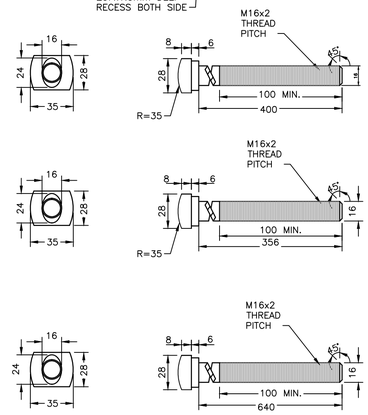
A FINISHED THICKNESS OF RAIL TO BE 2.82mm NOMINAL STEEL AND HOT DIPPED GALVANIZED AFTER FABRICATION.

SCALE N.T.S

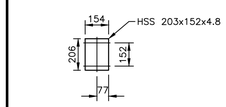
W-BEAM GUARDRAIL



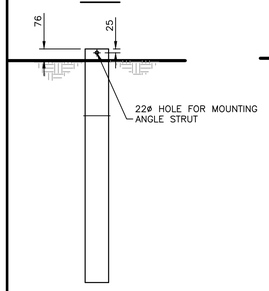
NOTES:
1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 2mm.
2. IF THE BOLT EXTENDS MORE THAN 6mm FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.



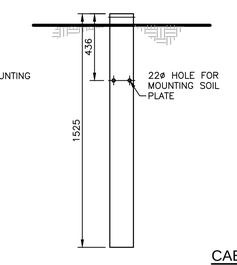
GUARDRAIL BOLT AND RECESSED NUT
1:2.5



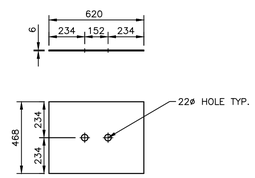
PLAN



FRONT ELEVATION

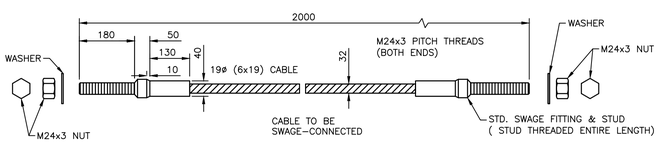


SIDE ELEVATION

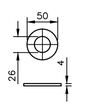


CABLE ANCHOR TERMINAL FOUNDATION TUBE SOIL PLATE

CABLE ANCHOR TERMINAL FOUNDATION TUBE
1:20

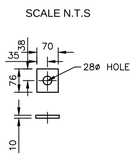


BCT CABLE ANCHOR ASSEMBLY

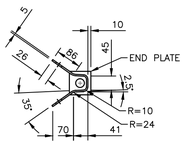


WASHER
SCALE N.T.S

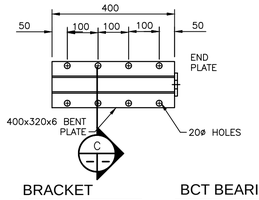
SCALE N.T.S



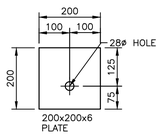
END PLATE
SCALE N.T.S



C SECTION C
N.T.S.



BRACKET
SCALE N.T.S



BCT BEARING PLATE
SCALE N.T.S

W-BEAM CANCHOR TERMINAL HARDWARE

GENERAL NOTES

1. THIS SHEET IS INTENDED FOR ILLUSTRATION PURPOSES ONLY AND NOT TO BE USED FOR DESIGN OR INSTALLATION OF GUARDRAIL. ALL GUARDRAIL SHALL BE DESIGNED AND INSTALLED AS PER THE MANUFACTURER'S INSTRUCTIONS.
2. IF ROCK IS ENCOUNTERED DURING EXCAVATION FOR A 300 MM ø POST HOLE. A 500 MM ø MAY BE USED IF APPROVED BY THE CONTRACT ADMINISTRATOR. APPROVED GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROX. 65 MM DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

APEGM
Certificate of Authorization
Stantec Consulting Ltd.
No. 1301

UNDERGROUND STRUCTURES

SUPV. U/G STRUCTURES COMMITTEE — DATE

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

B.M.
ELEV.

NO.	REVISIONS	DATE	BY
2	ISSUED FOR TENDER	13/04/08	V.M.M.
1	ISSUED FOR REVIEW	13/03/27	V.M.M.
0	ISSUED FOR 90% REVIEW	13/02/22	V.M.M.

DESIGNED BY --
DRAWN BY C.D.
CHECKED BY --
APPROVED BY --
HOR. SCALE
VERTICAL
DATE 13/02/15

DESIGN TEAM
Stantec
RELEASED FOR CONSTRUCTION
DATE

ENGINEER'S SEAL

CONSULTANT PROJECT NUMBER
113705751

THE CITY OF WINNIPEG
PUBLIC WORKS DEPARTMENT

WWARP PART 3 - CONTRACT 1
STA 2+922.4 TO STA 5+935

KENASTON BOULEVARD EXTENSION NB LANES
ELEVATION AND W-BEAM GUARDRAIL END SECTION

CITY DRAWING NUMBER
P-3345-47
SHEET 47 OF 64
CONSULTANT DRAWING NUMBER
S-504

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