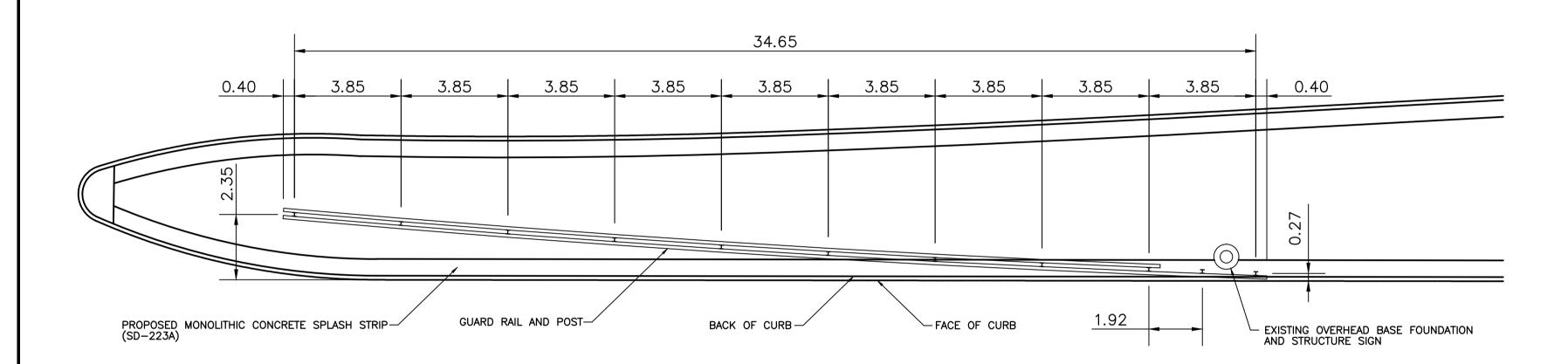
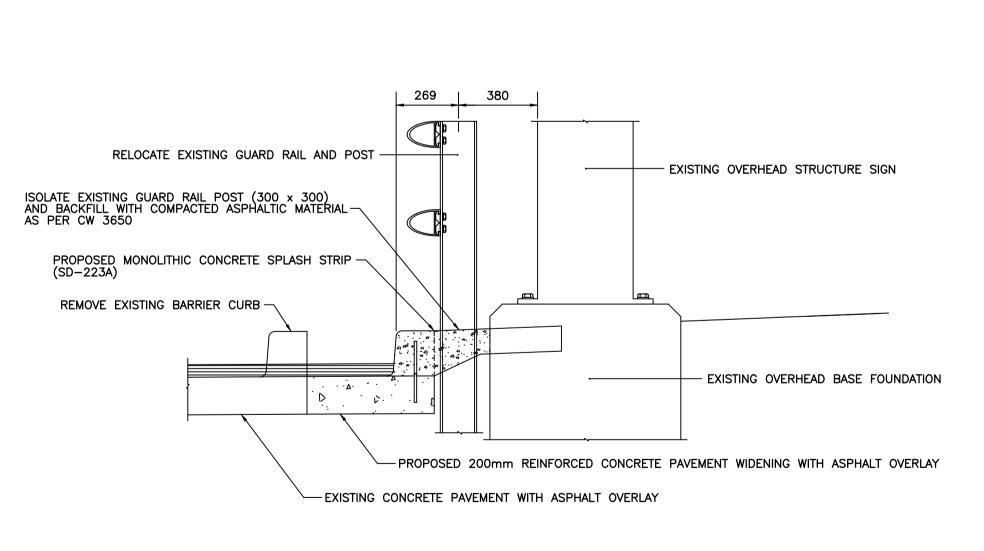


SPLICE BAR TO RAIL ASSEMBLY DETAIL



RELOCATION OF EXISTING GUARD RAIL AT OVERHEAD BASE FOUNDATION AND STRUCTURE SIGN



MONOLITHIC CONCRETE SPLASH STRIP AND GUARD RAIL AT OVERHEAD STRUCTURE SIGN SECTION A - A

ф-

HYDRANT

VALVE

CURB STOP

0.L.S.

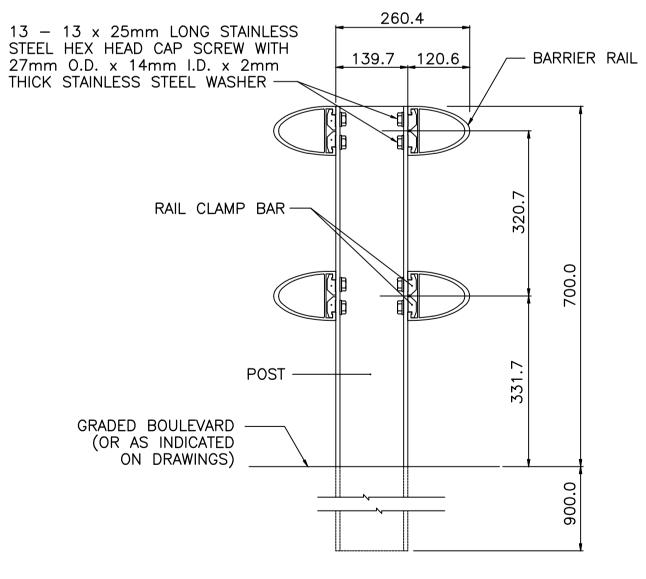
MANHOLE

CATCH BASIN

CURB INLET

HYDRO POLE

CONCRETE



RAIL TO POST ASSEMBLY DETAIL

S/B WEST GUTTER LDS/WWS ____ _ _ _ _ _ _ |----LOCATION APPROVED ELEV. S/B MEDIAN GUTTER WATERMAIN _._._. ____. _ . _ . _ . _ UNDERGROUND STRUCTURES S/B PROPERTY GAS ____ ____ **___**··· PEDESTRIAN X-WALK TRAFFIC SIGNALS _____ ____ SUPR. U/G STRUCTURES DATE •• HYDRO COMMITTEE CURB RENEWAL LOCATION OF UNDERGROUND STRUCTURES AS 232.000 232.000 ELEVATIONS SHOWN ARE BASED ON THE BEST INFORMATION PROPERTY LINE AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR SURVEY BAR --THAT THE GIVEN LOCATIONS ARE EXACT. TRAFFIC SIGNAL POLE GEODETIC BENCH MARK $\quad \bullet \rightarrow \quad$ CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE RAMP CURB OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. LEGEND - PLAN PROPOSED LEGEND - PLAN PROPOSED EXISTING LEGEND - PROFILE

ALUMINUM RAIL SPLICE STAGGER **ENGINEERING DIVISION**

14/3/3 S.M.

14/1/28 S.M.

DATE

SUBMIT FOR ENGINEERS REVIEW

SUBMIT FOR PLAN APPROVAL

REVISIONS

WHOLE NUMBERS INDICATE MILLIMETRES DECIMALIZED NUMBERS INDICATE METRES

DESIGNED S.M. /A.P.

HOR. SCALE: N.T.S.

VERTICAL:

S.M.

N.T.S.

2014/03/26

TECHNOLOGY SERVICES BRANCH

106 - 1155 PACIFIC AVE

CHECKED D.T.

APPROVED S.S.

ENGINEER'S SEAL

SIDE BY SIDE.

MATERIAL SPECIFICATION

ONTARIO L3R 2Z3

C BARRIER POST-

ARE IN CONTACT WITH THE GROUND.

300 20

DIRECTION OF TRAVEL

3850

DIRECTION OF TRAVEL

1. ALUMINUM RAILS, POSTS, SPLICE BARS, AND RAIL END CAPS

SHALL CONFORM TO ASTM B221, ALLOY 6061 - T6, OR ALLOY 6351 - T6.

3. CAP SCREWS SHALL CONFORM TO ASTM A276, TYPE 316 STAINLESS STEEL.

i.e. LPS-3-MANUFACTURED BY HOLT LLOYD (CANADA) LTD., MARKHAM,

5. TWO COATS, EACH 1mm IN THICKNESS OF ALKALI-RESISTANT BITUMINOUS

PAINT SHALL BE APPLIED ON THE SURFACES OF POSTS AND RAILS THAT

2, TYPE 316. STAINLESS STEEL WASHERS SHALL CONFORM TO ASTM A296, TYPE 316.

4. ANTI-SEIZE COATING TO BE APPLIED TO ALL THREADED COMPONENTS WHEN ASSEMBLED.

DIRECTION OF TRAVEL

BID OPPORTUNITY NO. 1-2014

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

PEMBINA HIGHWAY

FROM MARKHAM ROAD TO UNIVERSITY CRESCENT REHABILITATION / ACTIVE TRANSPORTATION CORRIDOR AND ASSOCIATED WORKS

MISCELLANEOUS DETAILS SHEET 3 OF 3

CITY DRAWING NUMBER P-3353-12 SHEET 12 OF 13

,300 PRELIMINARY NOT TO BE USED FOR CONSTRUCTION CONSTRUCTION NOTES ADMINISTRATOR. CONTRACT ADMINISTRATOR. SPLICES SHALL ALWAYS BE STAGGERED AS SHOWN 3) PAVEMENT REPAIRS SHOWN ARE ONLY A EXCEPT AT TERMINALS ENDS WHERE THEY WILL BE 5) ALL BULLNOSES TO HAVE SLOPED FACE.

C BARRIER POST

1) CURB REPLACEMENT AS DIRECTED BY THE CONTRACT 2) ALL STREET RADIUS CURB UNDER 15M RADIUS SHALL BE REPLACED AS MODIFIED OR AS DIRECTED BY THE RÉPRESENTATIVE SAMPLE OF THE TENDERED QUANTITIES 4) ASPHALT TIE-INS ON APPROACHES TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.

WARNING IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST: 1)OBTAIN CLEARANCE FROM THE GAS UTILITY PRIOR TO EXCAVATION. 2)TAKE PRECAUTION TO AVOID DAMAGE TO GAS

UTILITY INSTALLATIONS.

SEE PROVINCIAL REGULATION 210/72 FOR DETAILS

Winnipeg

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