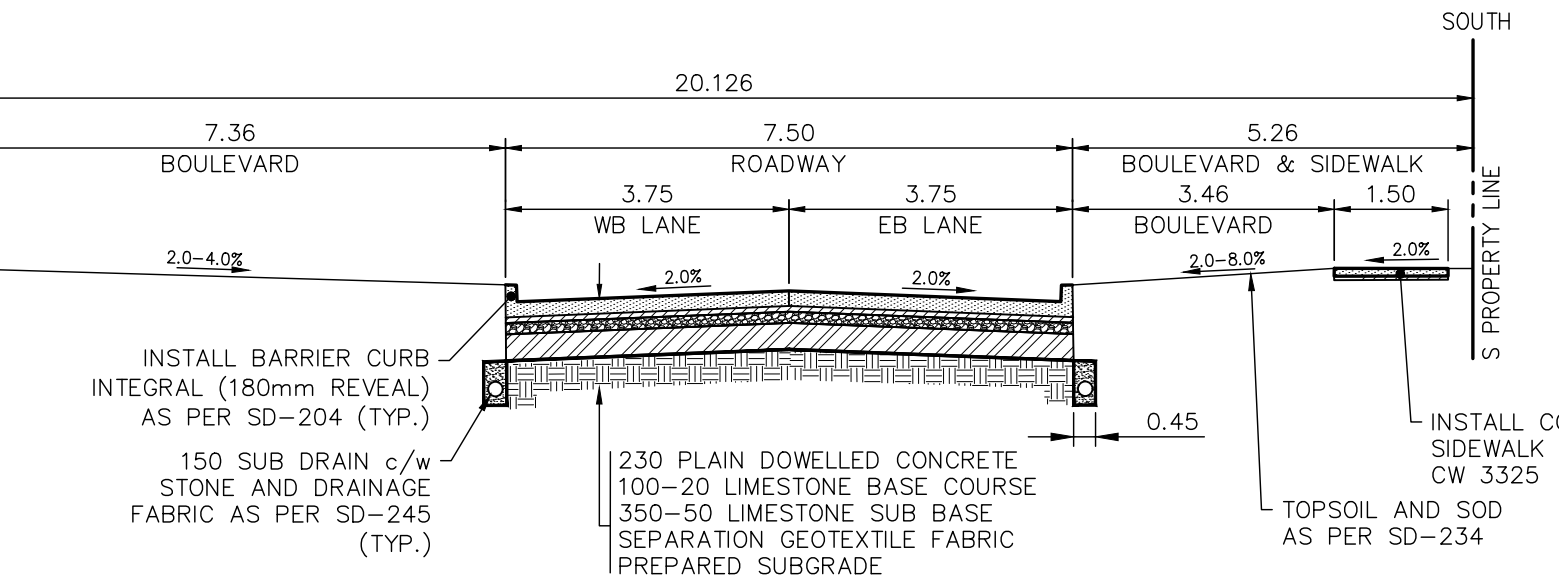


**WATERMAIN RENEWAL TO BE COMPLETED IN 2018  
BID OPPORTUNITY 134-2018**

**STREET LIGHTING RENEWAL TO BE COMPLETED BY MANITOBA HYDRO**

NOTE: These design documents are prepared solely for the use by the party with whom the design professional has entered into a contract and there are no representations of any kind made by the design professional to any party with whom the design professional has not entered into a contract.

EXISTING	PROPOSED	EXISTING	LEGEND-PLAN	PROPOSED	EXISTING	LEGEND-PROFILE	PROPOSED
---	---	---	WATER MAIN	---	---	---	SWALE GRADE (31.255)
---	---	---	LAND DRAINAGE SEWER	---	---	---	SLOPE (1:1)
---	---	---	WASTE WATER SEWER	---	---	---	DIRECTION FLOW
---	---	---	HYDRO	---	---	---	HYDRO POLE & LIGHT STANDARD
---	---	---	M.T.S.	---	---	---	LIGHT STANDARD OR TRAFFIC SIGNAL
---	---	---	GAS	---	---	---	HYDRO POLE
---	---	---	SIGNALS	---	---	---	CURB RAMP
○	○	○	MANHOLE	○	○	○	DETECTABLE WARNING SURFACE TILE
□	□	□	CATCH BASIN	□	□	□	EDGE OF SIDEWALK
△	△	△	CURB INLET	△	△	△	FENCE
○	○	○	UTILITIES ADJUSTED	○	○	○	PROPERTY LINE
⌋	⌋	⌋	PLUG	⌋	⌋	⌋	EDGE OF ASPHALT
◇	◇	◇	HYDRANT	◇	◇	◇	EDGE OF CONCRETE
⊗	⊗	⊗	VALVE	⊗	⊗	⊗	MODIFIED BARRIER CURB
⌋	⌋	⌋	CURB STOP	⌋	⌋	⌋	BARRIER CURB
---	---	---	GROUND GRADE	---	---	---	CONC SIDEWALK
(31.000)	(31.000)	(31.000)	PAVEMENT GRADE	(31.000)	(31.000)	(31.000)	CONCRETE SLAB
---	---	---	ANCHOR	---	---	---	ASPHALT OVERLAY
#111	#111	#111	CIVIC ADDRESS	#111	#111	#111	BULLNOSE
---	---	---	EXISTING LEGEND-PLAN	---	---	---	PROPOSED LEGEND-PLAN



**CROSS SECTION A-A**  
NTS

**LOCATIONS APPROVED UNDERGROUND STRUCTURES**

SIGNED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

SUPV UG STRUCTURES \_\_\_\_\_ DATE \_\_\_\_\_

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

NO.	REVISIONS	DATE	BY
H	-	-	-
G	-	-	-
F	-	-	-
E	-	-	-
D	-	-	-
C	ISSUED FOR TENDER	2018-05-29	DS
B	ISSUED FOR UGS REVIEW	2018-04-26	DS
A	ISSUE FOR CLIENT REVIEW	2018-04-13	DS

**wsp**

DESIGNED BY: **DS** CHECKED BY: **TP**

DRAWN BY: **SB** APPROVED BY: **VM**

HOR SCALE: **1:250**

VERTICAL: **1:25**

ISSUED FOR CONSTRUCTION: **2018-02-15**

DATE: **2018-02-15**

WSP Canada Group Limited  
93 Lombard Ave, Suite 111  
Winnipeg, MB R3B 3B1  
t. 204.943.3178  
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ENGINEER'S SEAL  
**V.M. MAROTI**  
Member 30809  
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT ACAD DWG. NO.  
**17M-01932-00-C06**

- NOTES:**
- ALL WORK AND MATERIALS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
  - CONTRACTOR TO CONFIRM THE LOCATION OF ALL UTILITIES/SERVICES IN THE FIELD PRIOR TO CONSTRUCTION.
  - ALL ROADWAY DIMENSIONS SHOWN ARE TO BACK OF CURB.
  - ADD 200.00 TO ABBREVIATED ELEVATIONS TO OBTAIN GEODETIC ELEVATION.
  - PAVEMENT REPAIRS SHOWN ARE ONLY A REPRESENTATIVE APPROXIMATION OF THE TENDERED QUANTITIES.
  - ALL PRIVATE WALKWAYS TO BE ADJUSTED TO NEW SIDEWALK OR TOP OF CURB ELEVATION, AS REQUIRED.
  - MODIFIED BARRIER CURB TO BE CONSTRUCTED AT ALL INTERSECTION RADII AND APPROACH RADII
  - INSTALL 40MM LIP CURB THROUGH ALL APPROACHES UNLESS OTHERWISE NOTED.
  - CONTRACTORS TO TAKE PRECAUTIONARY STEPS TO PROTECT EXISTING TREES WITHIN THE LIMITS OF CONSTRUCTION FROM DAMAGE FROM CONSTRUCTION ACTIVITIES AS OUTLINED IN THE SPECIFICATIONS.
  - LAMP STANDARDS, HYDRO POLES, AND ANCHORS THAT REQUIRE TEMPORARY SUPPORT, REMOVAL OR REPLACEMENT, TO BE DONE SO AT THE EXPENSE OF THE CONTRACTOR AS NECESSARY.
  - ALL BOULEVARDS TO BE BACKFILLED WITH IMPORTED FILL MATERIAL TOPPED WITH LIMESTONE SURFACING
  - MATERIAL UNLESS OTHERWISE NOTED LIMITS TO BE IDENTIFIED IN THE FIELD BY THE CONTRACT ADMINISTRATOR
  - TRAFFIC SERVICES TO PAINT TRAFFIC LINES LANE MARKINGS (IF REQ'D).
  - CONTRACTOR TO CONFIRM LOCATION AND LIMITS OF SEWER REPAIRS BY PERFORMING VIDEO INSPECTION AND REVIEWING WITH CONTRACT ADMINISTRATOR PRIOR TO CONSTRUCTION.
  - ADJUST ALL WATER VALVES, HYDRANTS, MANHOLES, AND CATCH BASINS IN WORK AREA TO GRADE.
  - INSULATE ALL LONG-WATER SERVICES UNLESS OTHERWISE NOTED.
  - STREET LIGHTING RENEWAL TO BE COMPLETED BY MANITOBA HYDRO.
  - CONTRACTOR TO NOTIFY CONTRACT ADMINISTRATOR AND FOLLOW SOIL MANAGEMENT PLAN IF CONTAMINATED SOIL IS ENCOUNTERED DURING EXCAVATION.

**METRIC**

WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES

**ENGINEERS  
GEOSCIENTIST  
MANITOBA**

Certificate of Authorization  
**WSP Canada Group Limited**  
No. 6657

**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES DIVISION

**2018/2019 INDUSTRIAL STREETS  
RENEWAL PROGRAM**  
HIGGINS AVENUE - HENRY AVE TO PRINCESS ST  
PAVEMENT RECONSTRUCTION  
STA. 1+60.49 TO STA. 2+20

CITY DRAWING NUMBER: ---  
SHEET: **06** OF **12**

BID NO.  
**85-2018**