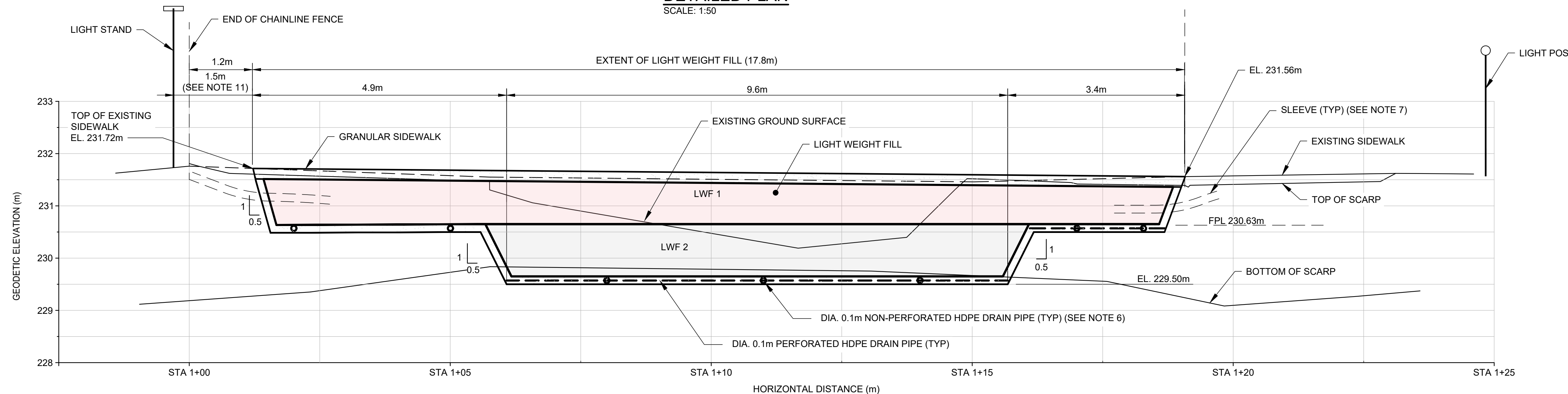
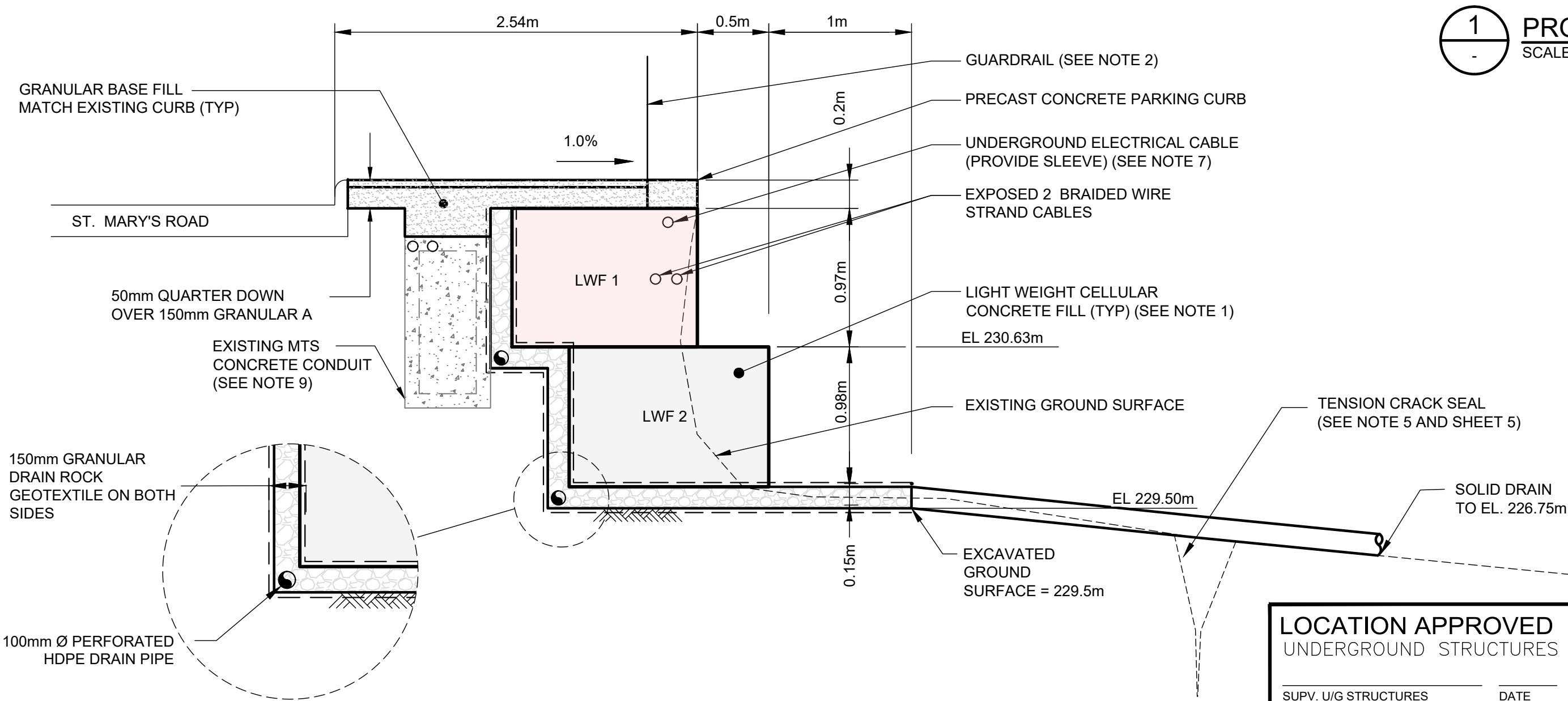


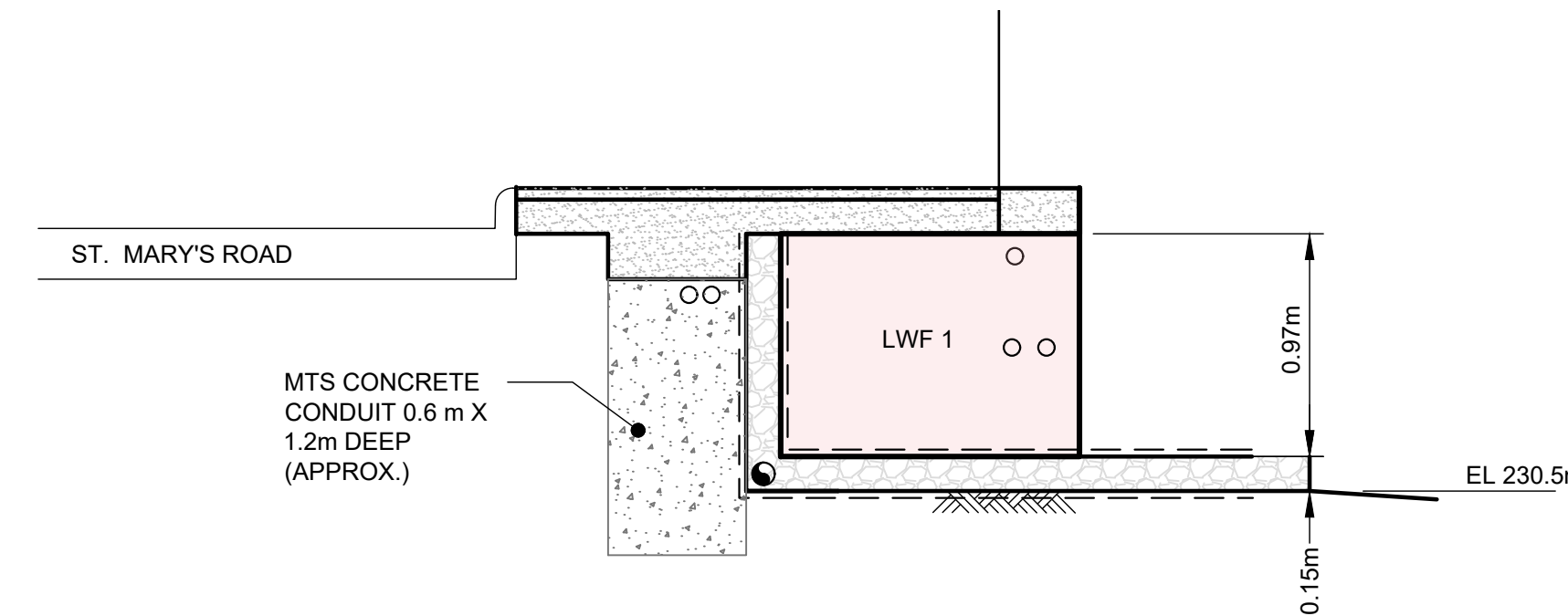
DETAILED PLAN
SCALE: 1:50



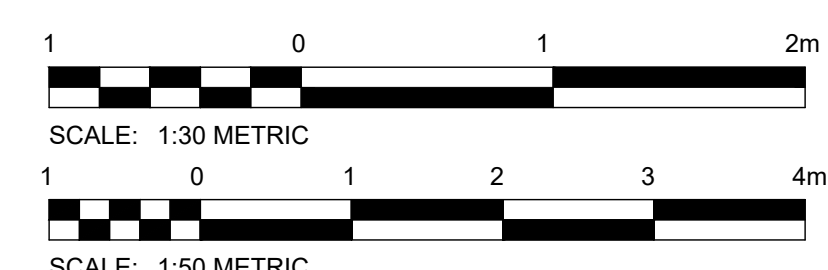
1 PROFILE
SCALE: 1:50



DOUBLE LEVEL TYPICAL SECTION (STA 1+06 TO STA 1+15.6)
SCALE: 1:30



SINGLE LEVEL TYPICAL SECTION (STA 1+01.2 TO STA 1+06) (STA 1+15.6 TO STA 1+19)
SCALE: 1:30



ISSUED FOR TENDER

LEGEND:

- LWF = LIGHT WEIGHT FILL (SEE SPECIFICATION)
- LWF1 - 475 kg/m³ AS-CAST (WET) DENSITY LIGHTWEIGHT FILL
- LWF2 - 1200 kg/m³ AS-CAST (WET) DENSITY LIGHTWEIGHT FILL

NOTES:

1. CONTRACTOR SHALL PROVIDE DESIGN AND METHOD OF PLACEMENT OF LIGHTWEIGHT CELLULAR CONCRETE FILL TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO CONSTRUCTION.
2. GUARDRAIL DESIGNER SHALL PROVIDE SHOP DRAWINGS, SEALED BY ENGINEER LICENSED TO PRACTICE IN MANITOBA FOR REVIEW. ANCHORAGE OF GUARDRAIL TO SLAB OR SUB-STRUCTURE BY GUARDRAIL DESIGNER. REACTION LOADS TO BE PROVIDED ON SHOP DRAWINGS. GUARD LOAD RESISTANCE SHALL CONFORM TO THE REQUIREMENT SO OF THE MBC 2011, NAMELY PROVIDE LATERAL FACTORED LOAD RESISTANCE A THE HEIGHT OF THE GUARDRAIL OF:
 - 1.0kN INWARD OR OUTWARD HORIZONTALLY, AT ANY POINT ALONG THE RAIL,
 - 0.75kN/m INWARD OR OUTWARD HORIZONTALLY, ALONG THE GUARDRAIL,
 - 1.5kN/m VERTICALLY, ALONG THE GUARDRAIL.
3. ALL WORKS TO BE IN ACCORDANCE WITH THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION.
4. LEGAL PLAN AND UNDERGROUND INFORMATION BASED ON CITY OF WINNIPEG LBS. CONTRACTOR TO VERIFY LOCATION OF ALL UNDERGROUND STRUCTURES ON SITE.
5. SEAL ANY TENSION CRACKS IN WORK AREA AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. ALL NON-PERFORATED HDPE PIPES ARE TO BE EXTENDED TO TOE OF UPPER SLOPE (EL. 226.75m), OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
7. PROVIDE CONDUIT FOR EXISTING UNDERGROUND ELECTRIC CABLE. CAST CONDUIT IN LIGHTWEIGHT FILL 600mm BELOW TOP OF TEMPORARY GRAVEL SIDEWALK. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES SO THAT THE INSTALLATION OF CONDUITS IN LWF OCCURS IN THE PRESENCE OF MANITOBA HYDRO PERSONNEL. DIAMETER AND MATERIAL TYPE BY MANITOBA HYDRO.
8. ALL EXCAVATED MATERIALS ARE TO BE REMOVED FROM SITE IMMEDIATELY. TEMPORARY STOCKPILING OF MATERIALS ON SITE IS NOT PERMITTED UNLESS OTHERWISE APPROVED BY THE CONTRACT ADMINISTRATOR.
9. CONTRACTOR SHALL SOFT DIG TO EXPOSE EXISTING CONCRETE CONDUIT CARRYING MTS CABLES. CARE SHALL BE EXERCISED NOT TO UNDERMINE CONCRETE CONDUIT.
10. THE LIMITS OF WORKS ARE SUBJECT TO FIELD FITTING BY THE CONTRACT ADMINISTRATOR TO FACILITATE SMOOTH TRANSITIONS TO THE EXISTING CONDITIONS OUTSIDE THE AREA OF DISTURBANCE.
11. LIMITS OF LIGHTWEIGHT FILL REPLACEMENT WITHIN 1.5M OF LIGHT POLE TO BE FIELD FIT BY THE CONTRACT ADMINISTRATOR IN CONSULTATION WITH MANITOBA HYDRO INSPECTOR.
12. CONTRACTOR SHALL OBTAIN EXCAVATION PERMITS AND CONTACT "CLICK BEFORE YOU DIG MANITOBA" FOR LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

FPL = 230.63m

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

PROPERTY LIMITS DELINEATION
DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THOSE PROPERTY LIMITS.

WARNING
1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
3. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.



LOCATION APPROVED 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	DATE
0	ISSUED FOR TENDER	22/08/12	BPA	

KGS GROUP

DESIGNED BY: CR	CHECKED BY: BPA
DRAWN BY: JP	APPROVED BY: BPA
HOR. SCALE: AS NOTED	RELEASED FOR CONSTRUCTION: DATE
VERTICAL: DATE	

ENGINEER'S SEAL
CONSULTANT DRAWING NO. **G04**

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

PROJECT TITLE: **ST. MARY'S ROAD RIVERBANK STABILITY IMPROVEMENT WORKS**

SHEET **4** OF **5**

COMPUTER FILE NAME: 22-0107-010-G02

CITY DRAWING NUMBER: **RW753-22-04**

LIGHTWEIGHT FILL PLAN, PROFILE, SECTIONS AND DETAILS

File: U:\FMS\22-0107-010\22-0107-010_G04 - Tab.0 Plotted By: jpoen 22/08/12 [Fri 11:11am] At: (G:\FMS) / PLO SCALE: 1:1