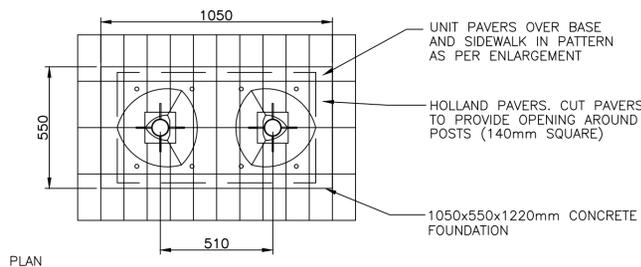
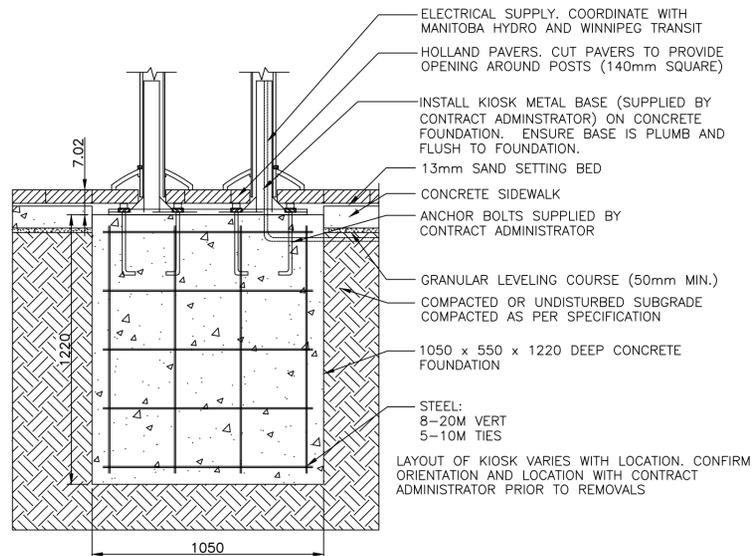


CONCRETE BROADWAY CYCLE PAVER (YELLOW)

N.T.S. (UNITS IN DECIMALIZED MILLIMETRES)



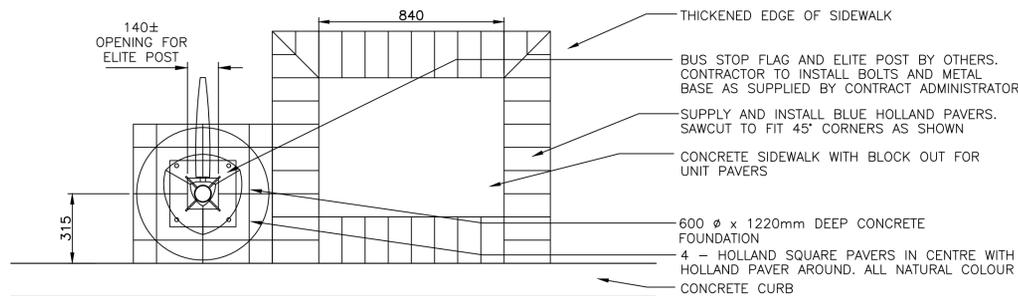
PLAN



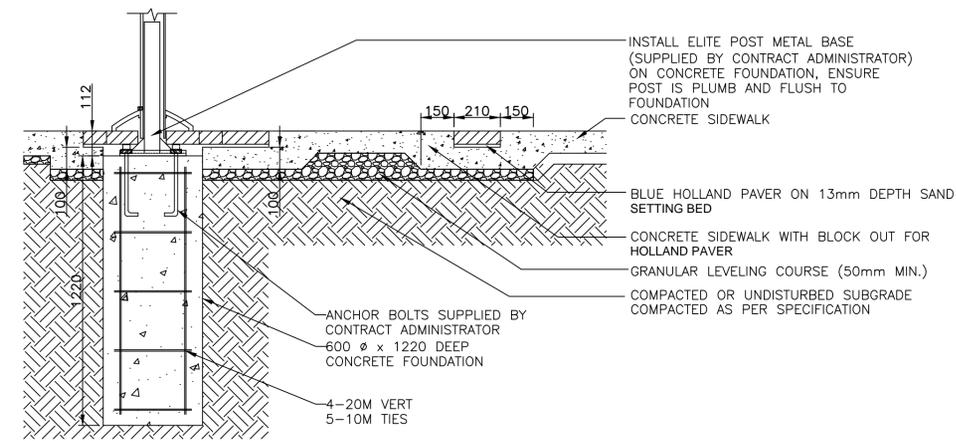
SECTION

INFORMATION KIOSK FOUNDATION

N.T.S.



PLAN



SECTION

BUS STOP FLAG FOUNDATION

N.T.S.

CONCRETE FOUNDATION CONSTRUCTION NOTES

- REINFORCING STEEL**
  - CSA G30 GR. 400W
  - VERTICAL BARS FULL LENGTH OF PILE SUPPLIED BY CONTRACT ADMINISTRATOR
  - HOT DIP GALVANIZED
- ANCHOR BOLTS**
  - CSA G40.21 GR. 300W "J BOLTS"
- TOP OF PILE SHALL BE FORMED WITH A TUBULAR FORM (SONOTUBE) AS FOLLOWS:**
  - BORED PILES - MIN. 1000 mm BELOW FINAL GRADE
  - "HYDRO-JET EXCAVATED" PILES - MIN. 1500 mm BELOW FINAL GRADE
- CONCRETE** - CONCRETE MATERIAL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES IN ACCORDANCE WITH CSA A23.1-04:
  - CLASS OF EXPOSURE: S-1
  - COMPRESSIVE STRENGTH @ 56 DAYS - 35 MPa
  - WATER/CEMENTING MATERIALS RATIO = 0.4
  - AIR CONTENT: CATEGORY 2 PER TABLE 4 OF CSA A23.1-04 (4-7%)
  - CEMENT - TYPE HS OR HSB, HIGH SULPHATE RESISTANT

CONSTRUCTION NOTES

- CURB REPLACEMENT AS DIRECTED BY THE CONTRACT ADMINISTRATOR
- ALL STREET RADIUS CURB UNDER 15M RADIUS SHALL BE REPLACED AS MODIFIED OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR
- PAVEMENT REPAIRS SHOWN ARE ONLY A REPRESENTATIVE SAMPLE OF THE TENDERED QUANTITIES
- ASPHALT TIE-INS ON APPROACHES TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- ALL BULLNOSES TO HAVE SLOPED FACE.
- INSTALL DETECTABLE WARNING SURFACE TILES AS DIRECTED 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

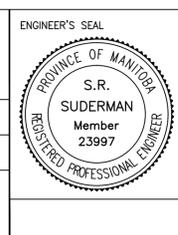
METRIC  
 WHOLE NUMBERS INDICATE MILLIMETRES  
 DECIMALIZED NUMBERS INDICATE METRES

BID OPPORTUNITY NO. 384-2012

⊕	HYDRANT	◆	---	LDS/WWS	---	---	N/BOUND EAST GUTTER	---
⊗	VALVE	●	---	WATERMAIN	---	---	N/BOUND MEDIAN GUTTER	---
⊙	CURB STOP	●	---	GAS	---	---	N/BOUND SIDEWALK	---
⊠	CONCRETE	●	---	TRAFFIC SIGNALS	---	---		
○	O.L.S.	●	---	ASPHALT MILL & FILL	---	---		
○	MANHOLE	●	---	CURB RENEWAL	---	---		
□	CATCH BASIN	■	231.000	ELEVATIONS	[231.000]			
△	CURB INLET	▲	---	PROPERTY LINE	---	---		
☆	HYDRO POLE	⊕	---	SURVEY BAR	---	---		
→	TRAFFIC SIGNAL POLE	⊕	---	GEODETIC BENCH MARK	---	---		
□	DETECTABLE WARNING TILE	□	---	RAMP CURB	---	---		
EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PLAN	PROPOSED	EXISTING	LEGEND - PROFILE	PROPOSED

LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.	CBM 64-031 232.184
SUPR. 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 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.			
2	ADDENDUM 1	2012/06/15	R.M.C.
1	ISSUED FOR TENDER	2012/06/08	S.S.
0	ISSUED FOR REVIEW	2012/05/03	R.M.C.
NO.	REVISIONS	DATE	BY

ENGINEERING DIVISION TECHNOLOGY SERVICES BRANCH 106 - 1155 PACIFIC AVE			
DESIGNED BY	S.S.	CHECKED BY	D.T.
DRAWN BY	R.M. / R.M.C.	APPROVED BY	S.P.
HOR. SCALE: VARIES			
VERTICAL:			
DATE: 2012/06/08			



**THE CITY OF WINNIPEG**  
PUBLIC WORKS DEPARTMENT

**PEMBINA HIGHWAY - NORTHBOUND**  
FROM PLAZA DRIVE TO CHEVRIER BOULEVARD  
MILL AND FILL / ACTIVE TRANSPORTATION CORRIDOR  
AND ASSOCIATED WORKS

CITY DRAWING NUMBER: SE-12-40-R2  
SHEET 8 OF 8

MISCELLANEOUS DETAILS 2 OF 2