

BUS STOP UPGRADE

-SD-228B CONCRETE SIDEWALK. -SUPPLY AND INSTALL HOLLAND PAVERS. SAWCUT TO FIT 45° CORNERS AS SHOWN. -CONCRETE SIDEWALK WITH BLOCK OUT FOR UNIT PAVERS. -THICKENED EDGE OF SIDEWALK. BUS STOP FLAG AND ELITE POST BY OTHERS. CONTRACTOR TO INSTALL FOUNDATION BOLTS AND METAL BASE AS SUPPLIED BY CONTRACT ADMINISTRATOR. -4-HOLLAND SQUARE PAVERS IN CENTER WITH HOLLAND PAVER AROUND. ALL NATURAL COLOR. SD-228B CURB 140± OPENING FOR ELITE POST ELITE POST METAL BASE SUPPLIED BY TRUEFORM. CONTRACTOR TO INSTALL

ON CONCRETE BASE. ENSURE POST IS PLUMB AND FLUSH TO BASE. 150 SD-228B CONCRETE SIDEWALK THICKENED EDGE OF CONCRETE BLUE HOLLAND PAVER ON 13mm DEPTH SAND SETTING BED. - CONCRETE SIDEWALK WITH BLOCK OUT FOR HOLLAND PAVER. -GRANULAR LEVELING COURSE (50mm MIN.) COMPACTED OR UNDISTURBED SUBGRADE. COMPACTED AS PER SPECIFICATION. CONCRETE BASE AS PER DETAIL BY CROSIER KILGOUR IN SPECIFICATION. 600 INSTALL BOLTS AND TEMPLATES, AS SUPPLIED BY CONTRACT ADMINISTRATOR, IN CONCRETE BASE.

SCALE: 1:20

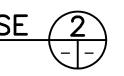
POWER PEDESTAL BY OTHERS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR DIMENSIONS AND BASE REQUIREMENTS PRIOR TO EXCAVATION. PEDESTAL CABINET TO BE MOUNTED FLUSH WITH CONCRETE BASE (BY OTHERS). COMPACTED GRANULAR LEVELING COURSE 50mm DEPTH. -ELECTRICAL/HYDRO CONDUIT (SUPPLIED BY OTHERS) 1000 MIN. BASE TO BE MIN. 300 WIDER THAN PEDESTAL ON ALL SIDES

NOTE: EXACT LOCATION OF PEDESTAL TO BE CONFIRMED ON SITE BY WINNIPEG TRANSIT AND CONTRACT ADMINISTRATOR. CONTRACTOR TO COORDINATE WITH WINNIPEG TRANSIT RE: CONDUIT LOCATIONS.

GROUND ROD TO BE INSTALLED BY CONTRACTOR. SIZE AND LOCATION TO BE CONFIRMED BY PEDESTAL MANUFACTURER.

# BUS STOP FLAG BASE WITH CONCRETE SIDEWALK AND UNIT PAVER INSERT

POWER PEDESTAL BASE



5200 EDGE OF BASE (8X15 SHELTER) 4265± (8X15 SHELTER) INCOMING POWER FOR LIGHTS TO BE CONFIRMED WITH SHELTER MANUFACTURER. LOCATIONS FOR CONDUITS FOR POWER - CONNECTION TO HEATERS TO BE CONFIRMED WITH SHELTER MANUFACTURER. NO LONGITUDINAL CHANGE IN SLAB THICKNESS; REFER TO SECTION. SLOPE ALLOWED — 2 – 15M BOT. 2130± T SHELTER — 10M @ 406mm E.W. TOP -610x400 THICKENED EDGE (TYPICAL) - 150mm THICK CONCRETE SLAB — TRANSIT SHELTER VERTICAL SUPPORT (NIC) - TRANSIT SHELTER OVERHANG (NIC)

-MIN. 150mm THICK CONCRETE BASE -10M @ 406 E.W. TOP -TRANSIT SHELTER VERTICAL SUPPORTS (BY OTHERS) -2 - 15M REBAR, BOTTOM CONTINUOUS FIBRE FILLED EXPANSION JOINT - NEW CONCRETE SIDEWALK - 150mm COMPACTED GRANULAR BASE -ELECTRICAL/HYDRO CONDUIT -COMPACTED OR UNDISTURBED SUBGRADE (SUPPLIED BY OTHERS)

SHELTER BASE SECTION

NOTE: CONFIRM FINAL CROSS SLOPE WITH CONTRACT ADMINISTRATOR PRIOR TO LAYOUT. CONTRACTOR TO REPORT ANY DISCREPANCIES TO CONTRACT ADMINISTRATOR PRIOR TO LAYOUT.

CONTRACTOR TO VERIFY EXACT DIMENSIONS OF SHELTER PRIOR TO LAYOUT WITH SHELTER MANUFACTURER. CONTRACT ADMINISTRATOR TO SUPPLY CONTACT INFORMATION.

SHELTER BASE PLAN

# C.I.P. SHELTER BASE FOR HEATED SHELTERS

### **GENERAL CONCRETE NOTES**

CONTRACT ADMINISTRATOR.

- 1. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED PRIOR TO COMMENCING CONSTRUCTION.
- 2. CONFIRM THE LOCATION OF ALL SUBGRADE SERVICES PRIOR TO COMMENCING SITE WORK.
- 3. EXCAVATE ALL TOPSOIL, ORGANIC MATERIAL AND LOOSE OR UNSUITABLE FILL TO THE APPROVAL OF THE CONTRACT ADMINISTRATOR. 4. EXCAVATE BELOW SLABS ON FILL TO PROVIDE A MINIMUM OF
- 150mm OF GRANULAR. FILL SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY. 5. CONSTRUCTION JOINT LOCATIONS ARE TO BE APPROVED BY THE

## REINFORCING NOTES

- 6. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH CAN3-A23.3-M84 UNLESS INDICATED OTHERWISE.
- 7. ALL REINFORCING BARS SHALL BE DEFORMED BARS WITH A MINIMUM SPECIFIED YIELD STRENGTH 400MPa FOR 20M BARS AND 300MPa FOR 15M AND 10M BARS IN ACCORDANCE WITH CAN 630.18 M92.

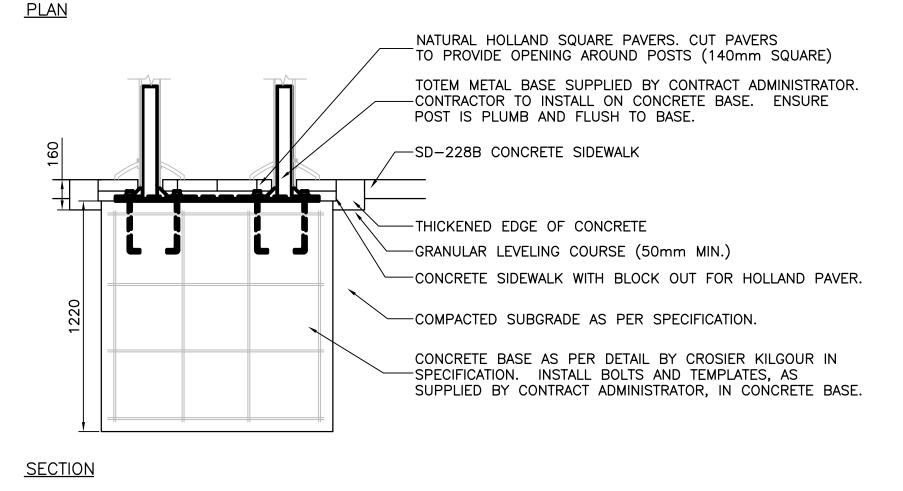
**SECTION** 

- 8. COVER TO REINFORCING: SLABS 50mm CLEAR TOP AND BOTTOM.
- 9. BEFORE PLACING ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATING WHICH WOULD REDUCE THE BOND TO CONCRETE.

### **CONCRETE NOTES**

- 10. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH CAN3-A23.1-M90 - CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
- 11. PROPORTION NORMAL DENSITY CONCRETE IN ACCORDANCE WITH CON-A23.1-M90. REFER TO SPECIFICATION FOR DESIGN MIXES.
- 12. CONSTRUCT FORMWORK, SHORING AND BRACING TO MEET DESIGN CODE AND CAN3.A23.1-M90 REQUIREMENTS, ACCURATELY, SO THAT RESULTANT FINISHED CONCRETE CONFORMS TO SHAPES, LINES AND DIMENSIONS INDICATED ON THE DRAWINGS.
- 13. CONSTRUCTION JOINTS, POUR SCHEDULING AND WORK PROCEEDURES SHALL BE DISCUSSED WITH THE CONSULTANT PRIOR TO COMMENCING CONSTRUCTION.
- 14. FOR COLD WEATHER CONCRETING ALL ICE, SNOW AND FROST SHALL BE REMOVED FROM FORMWORK AND THE TEMPERATURES OF ALL CONTACT SURFACES SHALL BE RAISED ABOVE 10°C FOR 24 HOURS PRIOR TO CASTING CONCRETE. CONCRETE SHALL BE NOT LESS THAN 20°C NOR MORE THAN 30°C FOR 3 DAYS AND NOT LESS THAN 5°C FOR AN ADDITIONAL 4 DAYS.

# 1260 1225 -SD-228B CONCRETE SIDEWALK CONCRETE SIDEWALK WITH BLOCK OUT FOR UNIT PAVERS -THICKENED EDGE OF SIDEWALK TOTEM WITH ELITE POSTS BY TRUEFORM. CONTRACTOR TO INSTALL BOLTS AND METAL BASE AS SUPPLIED BY TRUEFORM NATURAL HOLLAND SQUARE PAVERS. CUT PAVERS TO PROVIDE OPENING AROUND POSTS (140mm SQUARE) 712



TOTEM BASE IN CONCRETE SIDEWALK

## **WARNING**

IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:

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

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#### **METRIC** WHOLE NUMBERS INDICATE MILLIMETRES

DECIMALIZED NUMBERS INDICATE METRES

15. NOTIFY THE CONSULTANT 48 HOURS PRIOR TO POURING CONCRETE. DESIGNED ELEV. UNDERGROUND STRUCTURES DRAWN SUPV. U/G STRUCTURES DATE CHECKED D.B.W. DILLON CONSULTING APPROVED 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. RELEASED FOR CONSTRUCTION HOR. SCALE AS SHOWN ISSUED FOR TENDER 107-11-08 D.B.W. **VERTICAL** ISSUED FOR REVIEW 05-23-08 D.B.W. DATE MARCH 28, 2008 DATE DATE REVISIONS

#### ENGINEER'S SEAL THE CITY OF WINNIPEG TRANSIT DEPARTMENT BUS STOP Winnipeg UPGRADE DETAILS DESIGNED BY CITY DRAWING NUMBER McGOWAN RUSSELL ON STREET TRANSIT GROUP AND USED PRIORITY IMPROVEMENTS - PHASE 2 SHEET BY PERMISSION BUS STOP UPGRADE DETAILS CONSULTANT PROJECT NO. 08-9000