

NOTES:

1. REINFORCING STEEL

-CSA G30.12 GR. 400W

-VERTICAL BARS FULL LENGTH OF PILE

2. <u>ANCHORS BOLTS</u>
-CSA G40.21 GR. 300W
-4-25 DIA. x 1500 LONG + 150 HOOK
-TOP 300 THEADED
-HOT DIP GALVANIZED FULL LENGTH INCL. NUTS + WASHERS

3. CONCRETE MIX DESIGN
PROPORTIONING OF FINE AGGREGATE, COARSE AGGREGATE, CEMENT,
WATER, AND ARE ENTRAINING AGENT SHALL BE SUCH AS YIELD CONCRETE
HAVING THE REQUIRED STRENGTH AND WORKABILITY AS FOLLOWS:

i) MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 35 MPa ii) MAXIMUM WATER/CEMENT RATIO = 0.45 iii) MINIMUM CEMENT CONTENT = 340 kg/m

ii) Minimom cement content = 340 k iv) SLUMP = 80mm ± 30mm v) AGGREGATE: 20mm NOMINAL vi) AIR CONTENT: 5.0 TO 8.0 PERCENT

vii) CEMENT - TYPE HS, HIGH SULPHATE RESISTANT

4. TOP RING & ANCHOR BOLT TEMPLATE

-CONTRACTOR SHALL USE A STEEL TOP RING FORM FOR ALL PILE
INSTALLATIONS. REFER TO STANDARD DWG. ST-116 FOR FABRICATING
THE TOP RING FORM SUITABLE FOR 450 (18") DIA. PILES.

-CONTRACTOR SHALL USE A STEEL ANCHOR BOLT TEMPLATE TO SET
THE ANCHOR BOLTS IN THE PILES. REFER TO STANDARD DWG. ST-117
FOR FABRICATING THE TEMPLATE SUITABLE FOR 450 (18") DIA. PILES.

5. BREAKAWAY BASE
COMPONENTS REQUIRED FOR TYPICAL ASSEMBLY
-REACTION PLATE ASTM A36 OR EQUAL (HOT—DIP GALV.)
-30,000 PSI GRAY CAST—IRON COUPLER
-LOCK NUT, LEVELING NUT & RETAINING NUTS, LOWER WASHER & TOP

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WASHER ASTM A36 OR EQUAL (HOT DIP GALV.)
-25 (1") DIA. BUNC STUD-4140 STEEL (HOT DIP GALV.)
-SPACER-25 (1") DIA. PVC PIPE
-PLASTIC NUT COVERS- FOR 25 (1") DIA NUTS.
-SHROUD- #24 U.S. GAUGE, ATTACH WITH 3-#10x3/4" SELF-TAPPING S/S SHEET METAL,
SCREWS. SHROUD SHALL BE HOT-DIP GALV.

6. PAINT FINISH

-FOR SIGN BOX OPTION ALTERNATIVES 1, 2 & 3 : REACTION PLATE, SHROUD INCL.
SCREW HEADS AND PLASTIC NUT COVERS SHALL BE PAINTED DARK BLUE MATCHING
PANTONE COLOR SYSTEM PMS 2738

7. UNDERGROUND UTILITIES
-UNDERGROUND UTILITIES ARE NOT SHOWN.
-CONTRACTOR SHALL OBTAIN CLEARANCE FROM ALL UTILITY COMPANIES AT EACH PILE LOCATION
PRIOR TO PILE CONSTRUCTION.

DRAWING REDUCED NOT TO SCALE

B.M ELE				DESIGNED BY	S.S.R./A.S.D.	<u>,</u>
				DRAWN BY	N.B.G.	'I'MANAMANA
				CHECKED BY	S.S.R.	DILLON
				APPROVED BY		CONSULTING
				HOR. SCALE VERTICAL	AS SHOWN	RELEASED FOR CONSTRUCTION
NO.	REVISIONS	DATE	BY	DATE	SEPT. 2004	DATE



04-3144-1000



Winnipeg

THE CITY OF WINNIPEG PUBLIC WORKS DEPARTMENT

WAYFINDER SIGNS	CITY DRAWING NUMBER WF-04-07			
	SHEET	7	OF	11
SIGN BOX OPTION				
CONCRETE PILE FOUNDATION DETAILS				

FOUNDATION DETAIL