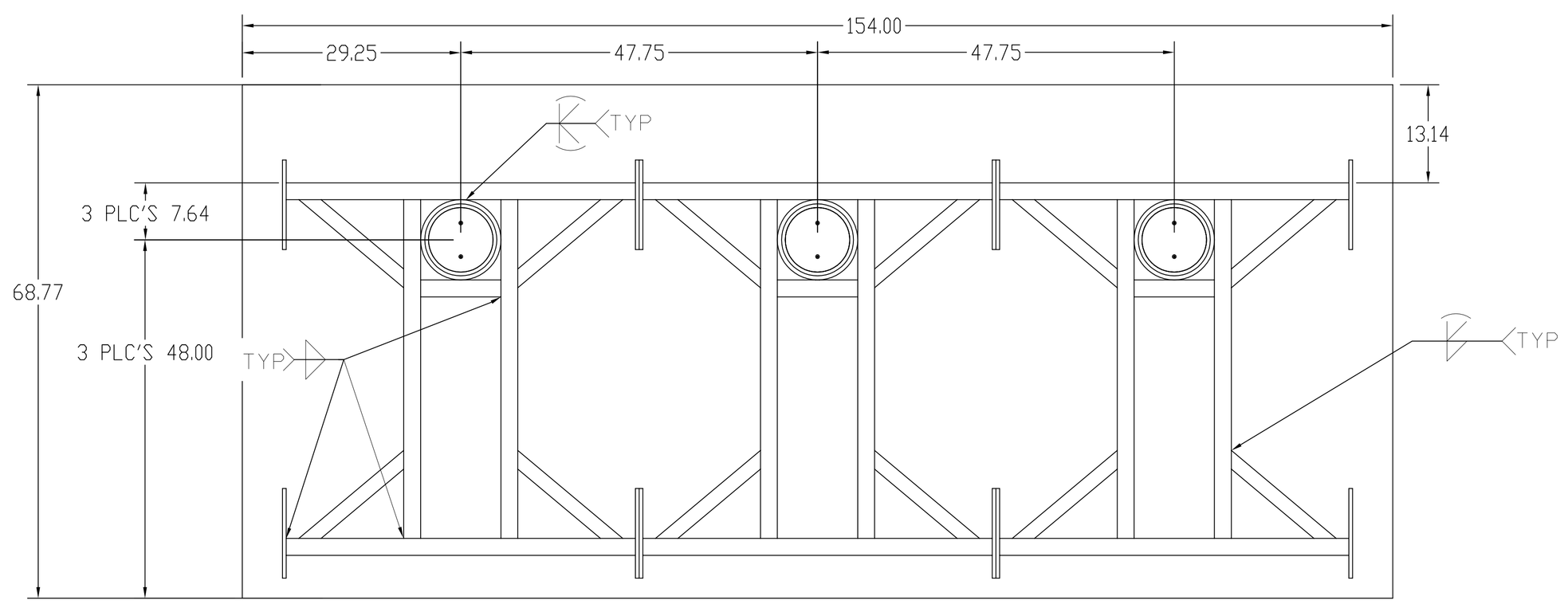
Revisions			
No.	Date	Description	By
-	-	-	-



NOTES:

1. CONTRACTOR WILL BE RESPONSIBLE TO ENSURE NO UNDERGROUND OBSTRUCTIONS EXIST. SOIL IS EXPECTED TO BE COMPACTED 95% OR GREATER PRIOR TO POUR.

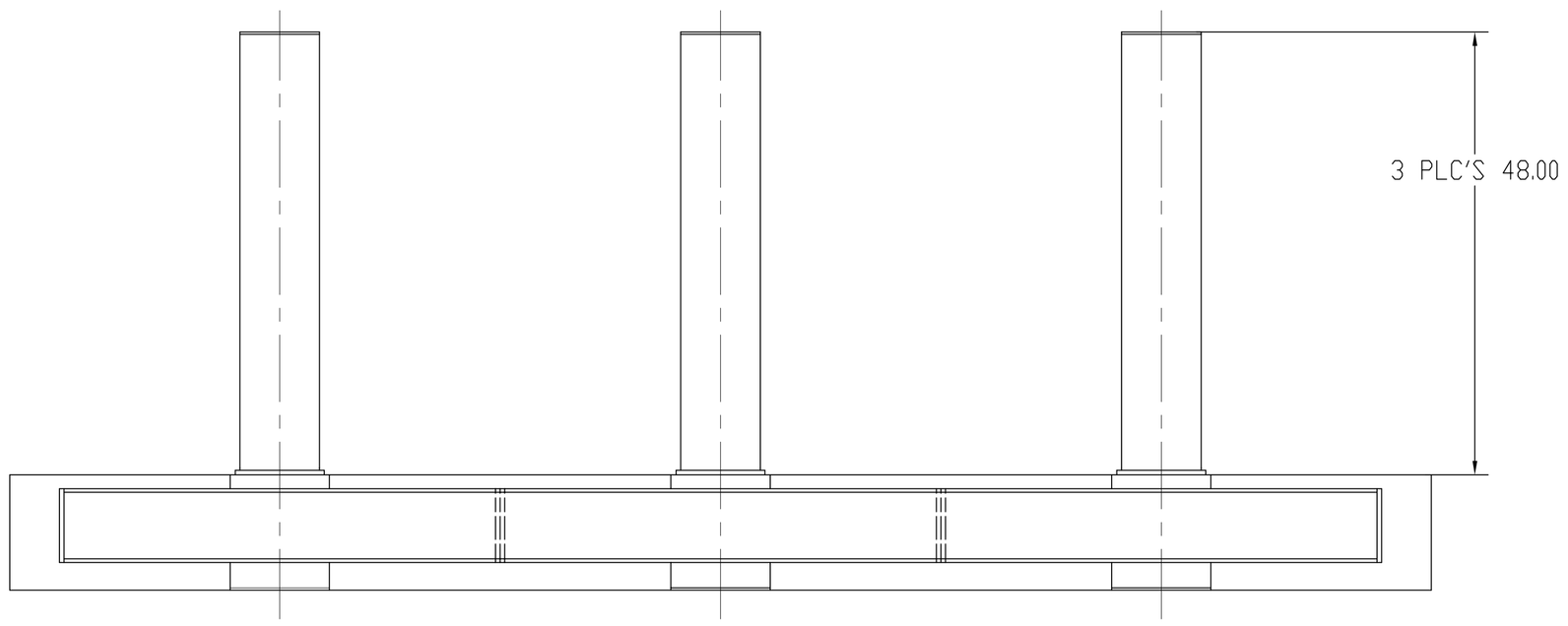
2. CONCRETE SHALL BE MACHINE MIXED 3000 PSI MINIMUM IN 28 DAYS. CONCRETE IS TO CONFORM TO ASTM C150 TYPE II, AGGREGATE SHALL CONFORM TO ASTM C33 GRADE B.

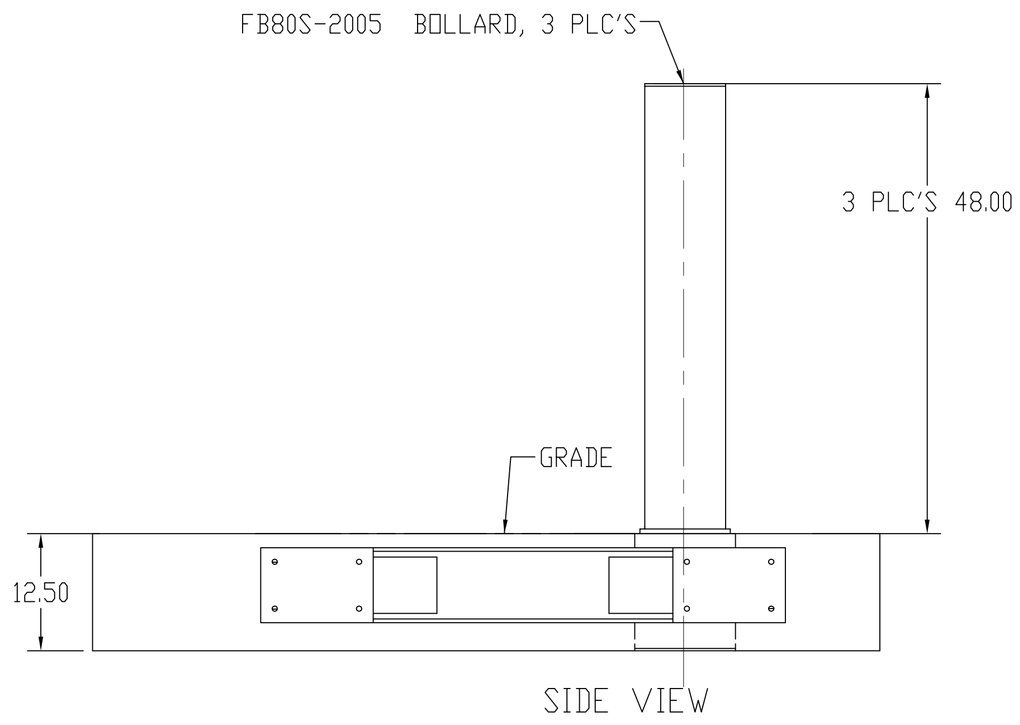
3. REINFORCING STEEL SHALL BE DEFORMED BARS PER ASTM A615, GRADE 60 OR BETTER. HOOKS AND BENDS SHALL CONFORM TO ACI 318. ALL REBAR TO BE DOUBLE TIED OR WELDED IN PLACE.

4. CONFIRM STEEL IS SECURE AND SUPPORTED PROPERLY IN EXCAVATION AND HELD IN PLACE
DURING POUR AND CURE. NO ALUMINUM ALLOWED DIRECTLY IN CONCRETE. ALL CONDUITS
TO CARRY HYDRAULIC HOSE TO BE ELECTRICAL, NO PLUMBING OR STEEL CONDUIT ALLOWED FOR HYDRAULIC RUNS.

5. LENGTH OF PIPE WILL VARY BASED ON SPECIFIC SITE LAYOUT REQUIREMENTS BUT
NOT TO EXCEED 8.0 INCHES BETWEEN CONCRETE AND GRADE.

6. ALL CONCRETE 4000 PSI MIN., COMPACTED SOIL IN EXCAVATION AREA. PLACE 4 X4 X W.4.0 WIRE MESH ABOVE FRAME MIN 1.5 INCHES BELOW TOP OF GRADE. PLUMB AND LEVEL ALL BOLLARDS.





SIDE VIEW

Material:	Contractor:	1-800-BOLLARDS	1-800-BOLLARDS 24370 Northwestern Hwy., Suite 250 Southfield, MI 48075 PH: (800) 265-5273
Finish:	Contract Number:		
THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION, AND SUCH INFORMATION MAY NOT BE DISCLOSED TO OTHERS FOR ANY PURPOSE, NOR USED FOR MANU-FACTURING PURPOSES WITHOUT THE EXPRESS WRITTEN CONSENT OF 1-800-BOLLARDS	Drawn By: / Date: Checked By: / Engineer: P. ROLAND Drawing Approval: / Design Approval:	Project Name: FB80-1015 / Job Number: Part Name: 3 POST FIXED BOLLARD ASSY Part Number: 14-10053-00	
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON DECIMALS: .X +/- .03; ANGULAR +/- 2°; .XX +/- .010; .XXX +/-.005; BREAK ALL SHARP EDGES .015 MIN.	Cast Code: / Sheet No: 1 OF 1 Date: 15-Aug-2008 / REV Unit Weight: 0.0 LBS / Scale: 1/8	