

FOUNDATION NOTES

1. FOOTINGS HAVE BEEN DESIGNED FOR THE FOLLOWING SLS AND ULS BEARING PRESSURES
- | | FOUNDATION SLAB | SLS
f = 150 kPa
SOIL | ULS
200 kPa |
|-----|--|----------------------------|----------------|
| 2. | SOIL BEARING CAPACITY MUST BE VERIFIED BY SOILS ENGINEER PRIOR TO CONSTRUCTION. | | |
| 2A. | NOTIFY ENGINEER IMMEDIATELY IF SOIL BEARING CAPACITY DOES NOT MEET DESIGN REQUIREMENTS. | | |
| 3. | FOLLOW RECOMMENDATIONS BY SOIL ENGINEER REG. SPECIFIC DESIGN REQUIREMENTS FOR FOOTINGS, SOIL SLOPES, FROST PROTECTION, MINIMUM COVER, ETC. | | |
| 4. | UNLESS OTHERWISE SHOWN, CENTER FOOTINGS UNDER COLUMNS. | | |
| 5. | DOWELS SHALL BE PLACED BEFORE CONCRETE IS PLACED. TEMPLATES SHALL BE USED TO ENSURE CORRECT PLACEMENT OF DOWELS. | | |
| 6. | PROVIDE 50mm GROUND SEAL UNDER FOOTINGS AS REQUIRED BY SOIL CONDITIONS. | | |
| 8. | VARY FOOTING ELEVATIONS WHERE REQUIRED IN ACCORDANCE WITH DETAIL FOR "TYPICAL STEPPED FOOTING", SHOWN ON STRUCTURAL DRAWINGS. | | |
| 10. | FOOTING ELEVATIONS IF SHOWN ARE NOT FINAL AND MAY VARY ACCORDING TO SITE CONDITIONS. ALL FOOTINGS MUST BE TAKEN TO A BEARING LAYER APPROVED BY THE SOILS ENGINEER. | | |
| 11. | BEARING SURFACES MUST BE PROTECTED FROM FREEZING BEFORE AND AFTER FOOTING ARE POURED. | | |
| 12. | CONCRETE PLACED UNDER WATER SHALL CONFORM TO CAN3-A23.1-M90. | | |

CONCRETE NOTES

- | 1. | A. | ALL CONCRETE SHALL COMPLY TO REQUIREMENTS OF CSA A23.1-94. CONCRETE SHALL BE STONE CONCRETE WITH A UNIT WEIGHT OF 23.6 kN/m ³ (150 Lb/C.F.) | | | | | | | | | | |
|---|----|--|--------------------------|---------------------------|-------------------|--------------|--------------|--|--|--|--|--|
| | C. | ALL CONCRETE HAVING C-1 EXPOSURE SHALL HAVE A MINIMUM CEMENTING MATERIAL MATERIAL CONTENT OF 320 Kg/m ³ | | | | | | | | | | |
| THESE ARE MINIMUM REQUIREMENTS FOR CONCRETE UNLESS HIGHER STRENGTH IS REQUIRED BY SCHEDULES ON DRAWINGS. | | | | | | | | | | | | |
| | | MIN.28 DAY
STRENGTH
(MPa) | MAX. AGG
SIZE
(mm) | WATER/
CEMENT
RATIO | EXPOSURE
CLASS | SUMP
(mm) | AIR
ENTR. | | | | | |
| SPREAD FOOTINGS, WALLS, COLUMNS, SLABS,
BEAMS, STAIRS, BASEMENT WALLS, (EXPPOSED
TO CHLORIDES). | | 35 | 20 | 0.4 | C-1 | 70 | 5 TO 8% | | | | | |
| PERIMETER BASEMENT WALLS AND FOOTINGS | | 25 | 20 | 0.55 | F-2 | 70 | 4 TO 7% | | | | | |
| SLAB ON GRADE | | 32 | 20 | 0.45 | C-2 | 70 | 5 TO 8% | | | | | |
| BUILDING STRUCTURE: | | | | | | | | | | | | |
| EXTERIOR CONCRETE WALLS & COLUMNS
EXPPOSED TO FREEZING. | | 25 | 20 | 0.55 | F-2 | 70 | 5 TO 8% | | | | | |
| ALL OTHER STRUCTURAL CONCRETE | | 25 | 20 | 0.4 | N | 70 | - | | | | | |
| NOTES: A. PUMP MIX SLUMPS SHALL ALSO CONFORM TO THE ABOVE.
B. WATER CEMENTING MATERIALS RATIOS FOR EXPOSURE CLASSES SHALL BE AS PER TABLE 7, 8 & 9
CSA-A23.1-94.
C. AIR CONTENTS FOR EXPOSURE CLASSES AND AGGREGATE SIZES SHALL BE AS PER TABLE 10
CSA-A23.1-94.
D. SLUMP TOLERANCES SHALL BE ±20 mm FOR SLUMPS LESS THAN 80 mm,AND ±30mm OTHERWISE. | | | | | | | | | | | | |
| 3. | | ALL BOTTOM EDGES OF EXPOSED SLABS AND BEAMS, AND ALL EXPOSED COLUMN AND WALL EDGES SHALL BE BEVELED 20 x 20 (3/4" x 3/4"). | | | | | | | | | | |
| | | ALL TOP EDGES OF EXPOSED SLABS, BEAMS, UPSTANDS AND STAIRS SHALL BE TOOLED UNLESS NOTED OTHERWISE. SEE ALSO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. | | | | | | | | | | |
| 4. | | NO CALCIUM CHLORIDE, IN ANY FORM, IS PERMITTED IN ANY CONCRETE MIX. | | | | | | | | | | |
| 5. | | CURING AND PROTECTION OF CONCRETE FOR HOT, COLD OR DRY WEATHER SHALL BE IN ACCORDANCE WITH CSA-A23.1-M94 - CHAPTER 21. FOR COLD WEATHER SEE ALSO "COLD WEATHER REQUIREMENTS" ON THE STRUCTURAL DRAWINGS. | | | | | | | | | | |

Note: For above ground structure refer to Dwg "M1330 structure" by Radiation Solutions Inc., reviewed by Keewatin Group Ltd.


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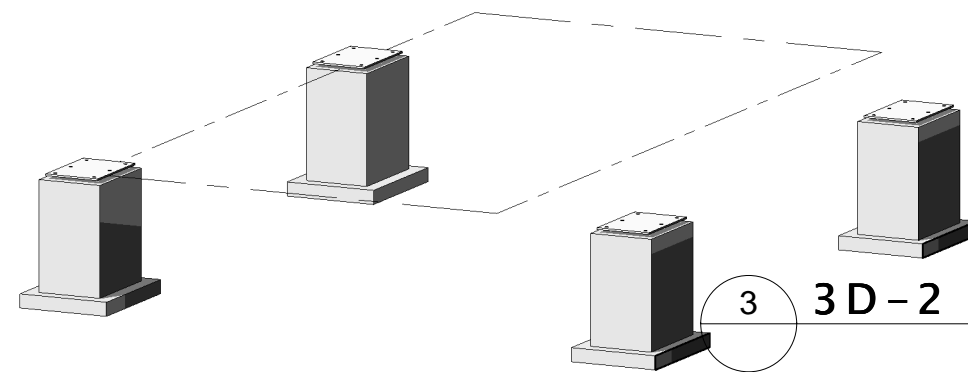
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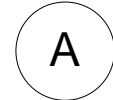
Radiation Solutions Inc.

Ontario Detector Foundation

Foundation Plan, Notes M1330 Structure

North	Stamp 
Date	2014-07-23
Drawn by	DK
Checked by	JS
Project number 13558	SB-1
Scale	As indicated

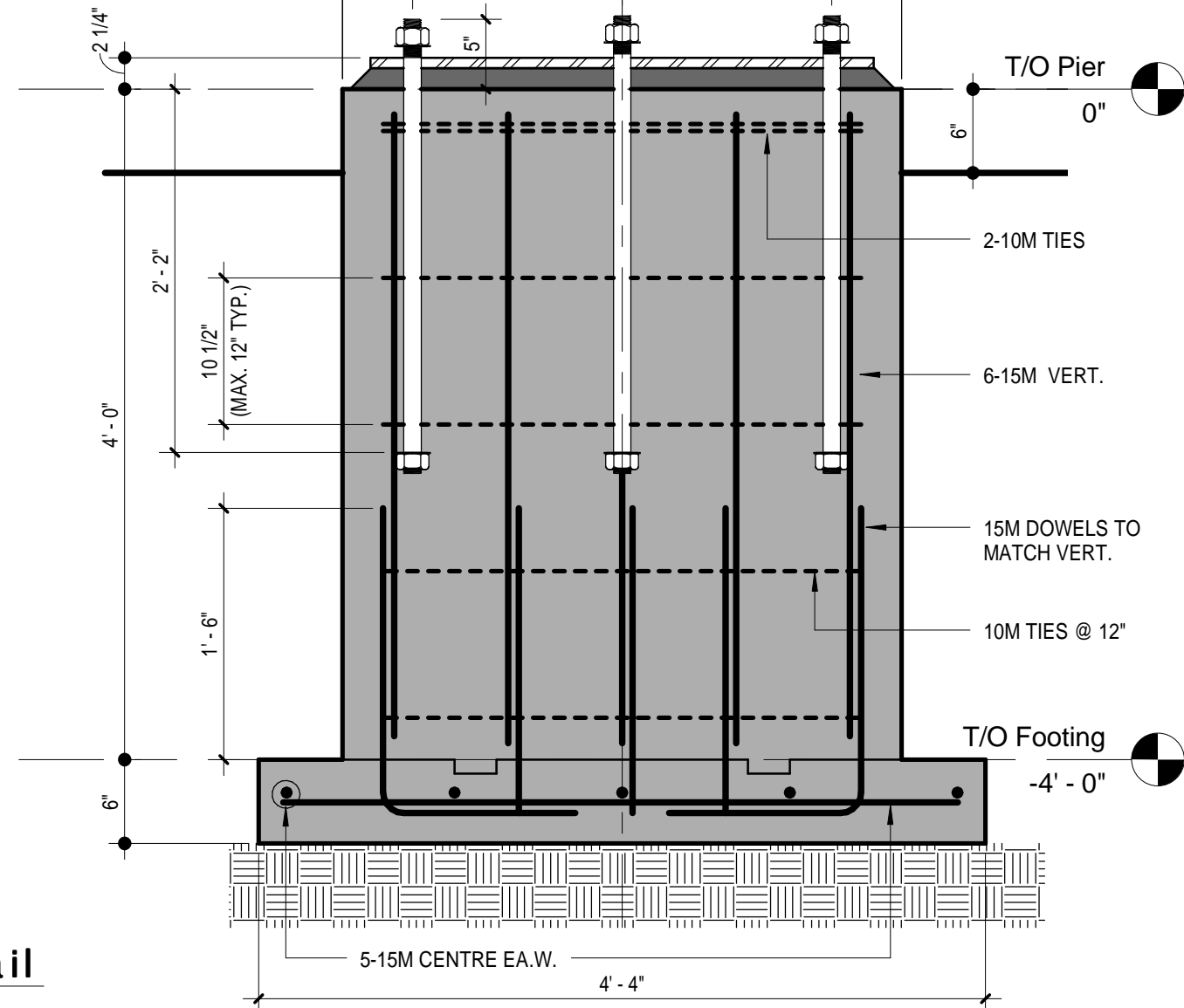




S-2 $1'' = 1'-0''$



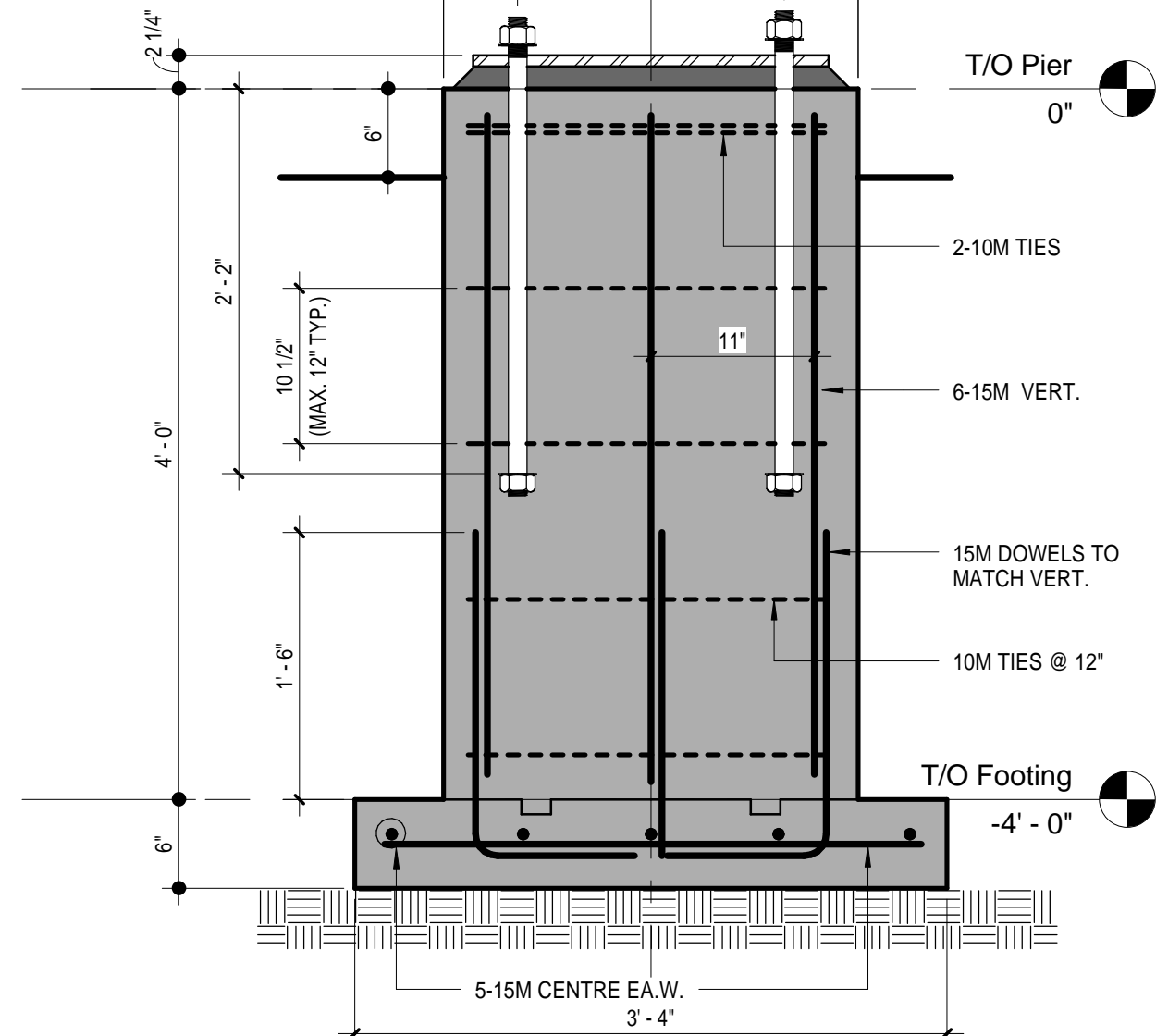
$1\frac{1}{2}'' = 1'-0''$



S-2 $1'' = 1'-0''$



S-2 1" = 1'-0"



S-2 $1'' = 1'-0$

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Ontario Detector Foundation

Sections, Notes

M1330 Structure

North	Stamp
Date	2014-07-23
Drawn by	DK
Checked by	JS
Project number	SB-2
Scale	As indicated