| | |
|---|---|
| CUSTOMER NAME: | The Gardner School |
| PROJECT NAME: | The Gardner School |
| LOCATION: | Braintree MA |
| CONFIGURATION #: | Q-090674 |

Devin Christensen
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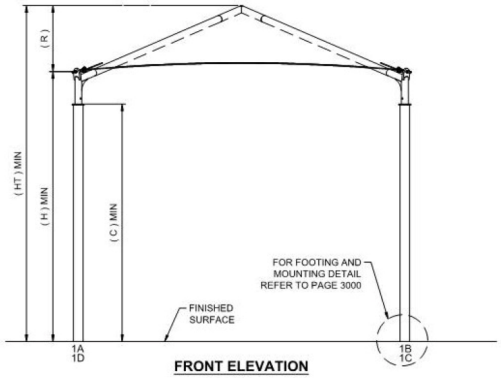
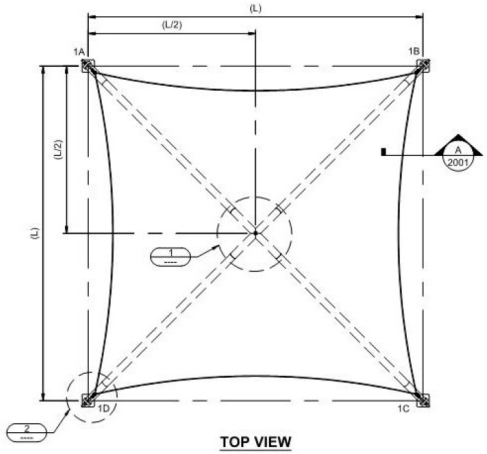


FRONT ELEVATION



TOP VIEW

GENERAL NOTES

**DESIGN LOADS**

| | |
|---|---|
| BUILDING CODE | INTERNATIONAL BUILDING CODE 2021 |
| LIVE LOADS | 5 PSF |
| SNOW LOAD | 5 PSF |
| WIND LOADS | 115 MPH* |
| | 3-Sec. Gust, RISK CATEGORY II & |
| | EXPOSURE C |

*- 115 MPH ACCORDING TO THE BASIC WIND SPEED MAPS OF ASCE 7-16 IS EQUIVALENT TO THE ALLOWABLE STRESS DESIGN WIND SPEED OF 90 MPH ACCORDING TO ASCE 7-05 AND IBC 2021 EQ 16-17.

ESTIMATED STEEL WEIGHT

| | |
|---|---|
| Total Structure Weight | 879 lbs |
| Single Column Weight | 59.8 lbs |
| Total Upper Frame Weight | 75.4 lbs |
| Steel Sizes | 3.5 GA 08 Round Tubing |

TABLE OF DIMENSIONS

| L | H | R | HT | D | EL |
|---|---|---|---|---|---|
| 10' 0" | 8' 0" | 2' 2" | 10' 2" | 14' 2" | 6' 2" |

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## REINFORCED CONCRETE NOTES

1. CONCRETE WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301 AND BUILDING CODE ACI 318. CONCRETE SPECIFICATIONS SHALL BE AS FOLLOWS:
   - 28 DAY STRENGTH: 2500 PSI
   - SLUMP: 3-5
   - PORTLAND CEMENT SHALL CONFORM TO C-150
   - AGGREGATE SHALL CONFORM TO ASTM C-33
2. ALL REINFORCEMENT STEEL SHALL CONFORM TO ASTM A-615 GRADE 60; AND SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH THE LATEST ACI SPECIFICATION FOR STRUCTURAL CONCRETE ACI 301, ACI DETAILING MANUAL AND CRSI MANUAL OF STANDARD PRACTICE.
3. ALL ANCHOR BOLTS SET IN NEW CONCRETE (WHEN APPLICABLE) SHALL COMPLY WITH ASTM F-1554 GRADE 55 (GALVANIZED).
4. ALL NON-SHRINK GROUT SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 5000 PSI, AND SHALL COMPLY THE REQUIREMENTS OF ASTM C109, ASTM C939, ASTM C1090 ASTM C1107, WHEN APPLICABLE.
5. SOIL PARAMETERS FOR FOOTING ANALYSIS; TABLE 1806.2, CLASS : 5 - 1500(PSF)
6. FOR SPREAD FOOTING, EDGE OF COLUMN OR ANCHOR BOLTS MUST BE SET AT LEAST 12" FROM THE EDGE OF SPREAD FOOTING EDGE.
7. SPREAD FOOTING ALLOWED TO BE ROTATED AS REQUIRED.

| TABLE FOR NON-CONSTRAINED DRILLED PIER FOOTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DIAMETER | DEPTH | VERTICAL REBAR | | TIES | | | MIN. COLUMN EMBEDMENT (EMBED) | MIN. ANCHOR EMBEDMENT (RECESS. & SURFACE) |
| (FT) | (FT) | QTY. | SIZE | QTY. | Ø LOOP (FT) | SIZE | (IN) | (IN) |
| 1.50 | 4.00 | 5 | #5 | 9 | 1.0 | #3 | 33 | 19 |

| TABLE FOR NON-CONSTRAINED SPREAD FOOTING | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| LENGTH | THICKNESS | TOP AND BOTTOM REINFORCEMENT | | | | | MIN. COLUMN EMBEDMENT (EMBED) | MIN. ANCHOR EMBEDMENT (RECESS. & SURFACE) |
| (FT) | (FT) | QTY. | SIZE | SPACING (IN) | | | (IN) | (IN) |
| 3.00 | 3.00 | 4 | #5 | @ | 10.0 | O.C.E.W. | 33 | 19 |

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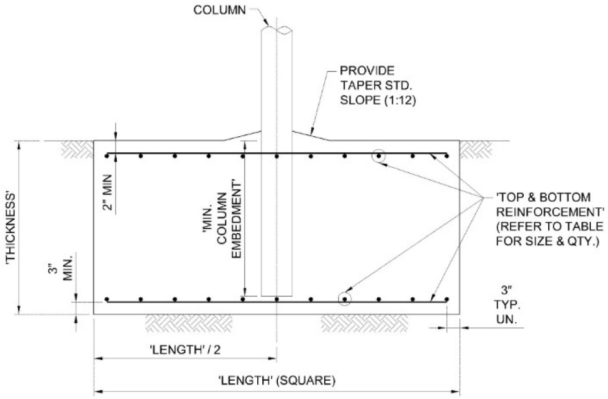
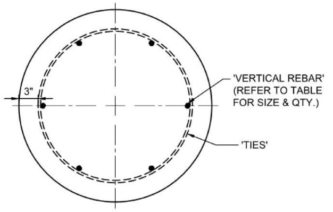
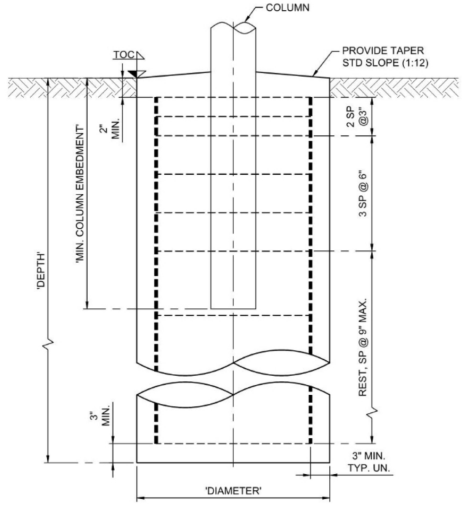
NOTE: ADDITIONAL INSTALLATION COSTS FOR SPREAD FOOTING




**SPREAD FOOTING TYPE**

EMBEDDED
SCHEMATIC VIEW ONLY
REFER TO TABLE FOR VARIABLE DIMENSIONS




**DRILLED PIER FOOTING TYPE**

EMBEDDED
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