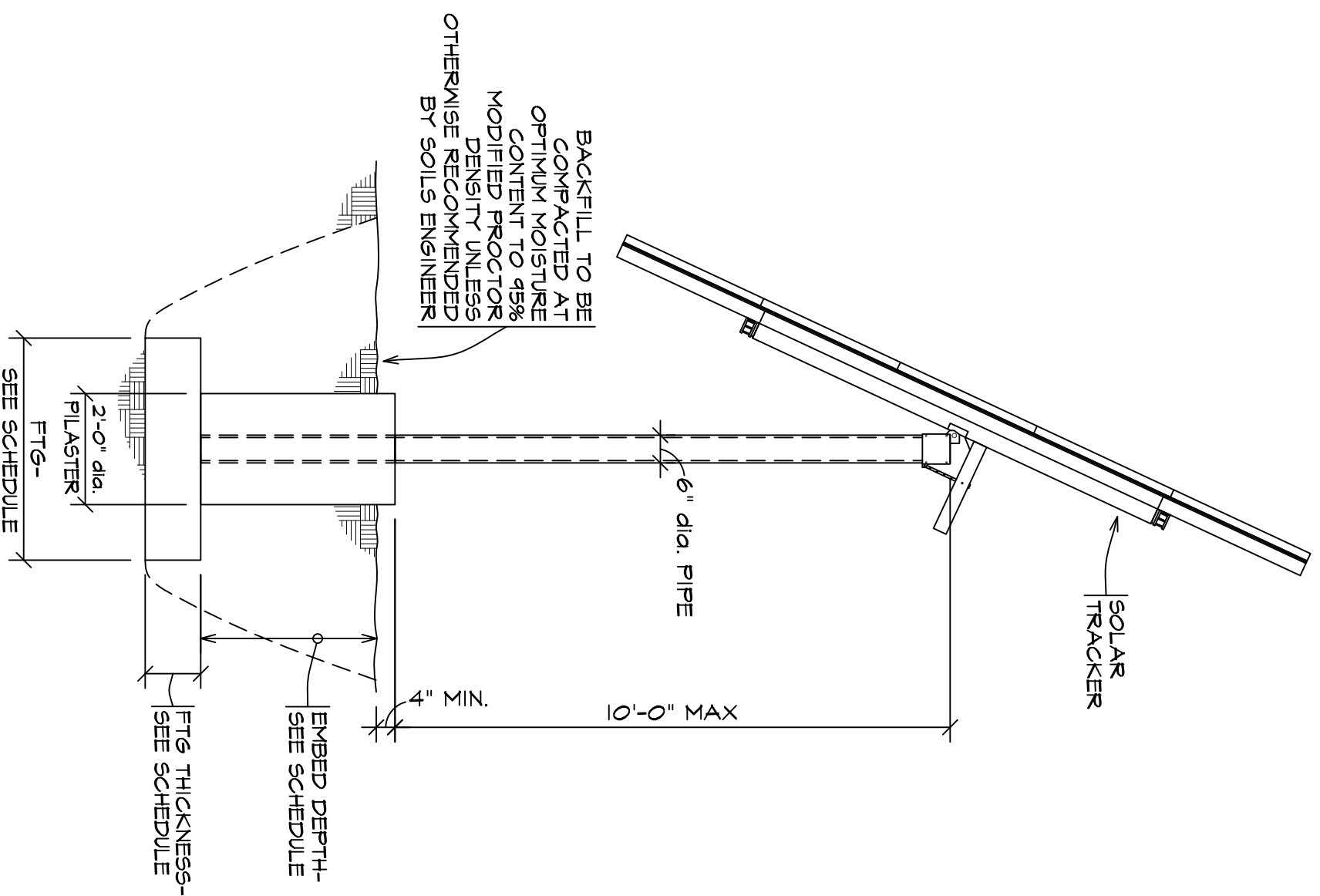


| FOOTING SCHEDULE: 110 MPH | | | |
|--|--|------------------------------|------------------------------|
| | WIND SPEED: 110 MPH (3 second gust) EXPOSURE C | | |
| UNIFIED SOIL CLASSIFICATION | GM, GP | GM, GC | SM, SC |
| SOIL DESCRIPTION | DENSE SANDS & GRAVELS | DENSE SOIL W/ SOME GRAVEL | FINE GRAINED SOIL |
| MAXIMUM SOIL BEARING PRESSURE | 3000 PSF | 2000 PSF | 1200 PSF |
| EMBED DEPTH (SEE DETAIL A/S2) | 4'-0" | 4'-8" | 6'-0" |
| FOOTING SIZE | 12" THICK x 4'-0" x 4'-0" | 14" THICK x 5'-0" x 5'-0" | 14" THICK x 5'-0" x 5'-0" |
| FOOTING REINFORCEMENT: TOP & BOT EA. MAY | (6) - #5 | (6) - #5 | (6) - #5 |

| FOOTING SCHEDULE: 90 MPH | | | |
|--|---|------------------------------|------------------------------|
| | WIND SPEED: 90 MPH (3 second gust) EXPOSURE C | | |
| UNIFIED SOIL CLASSIFICATION | GM, GP | GM, GC | SM, SC |
| SOIL DESCRIPTION | DENSE SANDS & GRAVELS | DENSE SOIL W/ SOME GRAVEL | FINE GRAINED SOIL |
| MAXIMUM SOIL BEARING PRESSURE | 3000 PSF | 2000 PSF | 1200 PSF |
| EMBED DEPTH (SEE DETAIL A/S2) | 4'-0" | 4'-0" | 5'-0" |
| FOOTING SIZE | 12" THICK x 3'-6" x 3'-6" | 12" THICK x 4'-0" x 4'-0" | 14" THICK x 5'-0" x 5'-0" |
| FOOTING REINFORCEMENT: TOP & BOT EA. MAY | (5) - #5 | (5) - #5 | (6) - #5 |

NOTES: It is recommended that a soils engineer familiar with the local soil conditions verify the soil bearing conditions and maximum allowable soil bearing pressure.



FOUNDATION DETAIL

3/8" = 1'-0"

A

KURTZ &
ASSOCIATES,
INC.
5012 COUNTY RD. 154
GLENWOOD SPRINGS,
COLORADO
(970) 945-6305

SUNARX
SOLAR
TRACKER

COLORADO SOLAR
38150 RIVER
FRONTAGE ROAD
NEW CASTLE,
COLORADO

PROJECT NO.
09-37

CONSTRUCTION SET:
05/20/10

SHEET:

S-2

GENERAL STRUCTURAL NOTES
GENERAL REQUIREMENTS

1. Design is based on the 2003 edition of the International Building Code (IBC) and American Society of Civil Engineers Code 7, 2005 (ASCE7-05).
2. All dimensions, elevations and details on structural documents shall be verified against the manufacturer's specifications and documents prior to construction or fabrication.
3. The contract structural documents and specifications represent the completed structure. The contractor shall provide all measures necessary to protect the structure and existing adjacent structures and utilities.

FOUNDATIONS

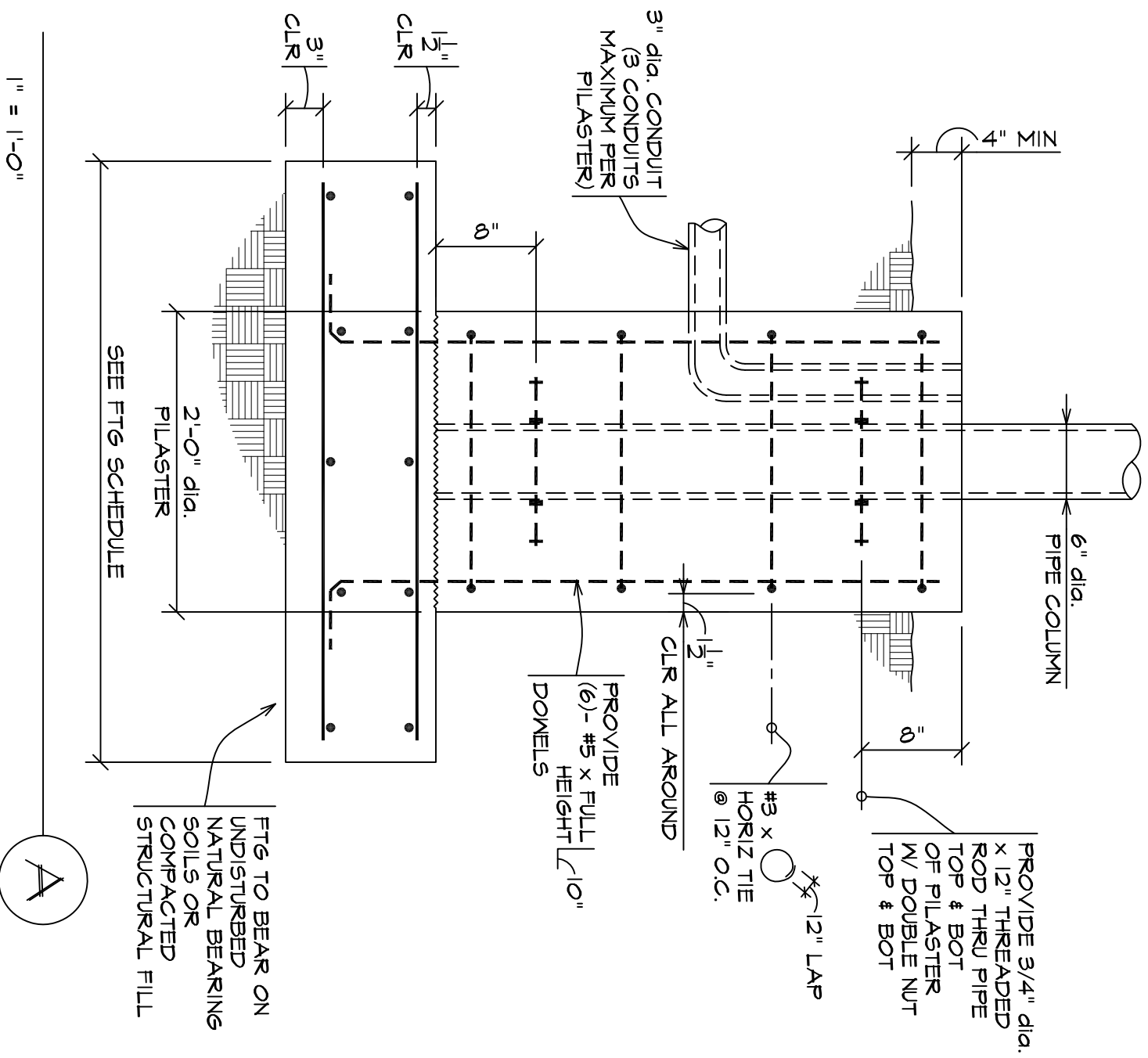
1. Foundation design is based upon the following assumed soil properties. See Footing Schedule. Soils are presumed to be non-expansive, non-soluble, and not prone to excessive consolidation.
2. All footings are to bear on undisturbed natural bearing materials or compacted structural fill. Footings are not to bear on unstable soils, soils prone to collapse under any combination of load and excessive moisture, or expansive soils.
3. Avoid excessive wetting or drying of the excavation, keeping the excavation reasonably free of water during placement of concrete for footings.

CONCRETE AND REINFORCING STEEL

1. All concrete shall attain 3,000 PSI compressive strength within 28 days except as follows:
 Concrete for exterior flatwork and garage floors shall attain 4,000 PSI compressive strength within 28 days.
2. Use Type I-II Portland Cement (ASTM C150) with 4-6% air entrainment. Concrete aggregate to be normal weight (stone).
3. Perform all cast-in-place concrete work in accordance with "Specifications for Structural Concrete for Buildings," ACI 301-84, unless noted otherwise. Provide hot or cold weather protection per ACI 305 or 306.
4. Reinforcing steel shall conform to ASTM A615:
 #4 and smaller....Grade 40, #5 and larger....Grade 60
5. Provide accessories necessary to properly support reinforcing at the positions shown on the documents.
6. Calcium chloride or admixtures containing more than 0.05% chloride ions or thiocyanates are not permitted.
7. Do not place pipes, ducts or chases in structural concrete other than is noted without prior approval of the Structural Engineer.

STRUCTURAL STEEL

1. Design, fabrication and installation of structural steel shall conform AISI and AWS specifications.
2. Steel other than pipes and tubes shall be ASTM A36 (minimum yield strength = 36 KSI). Pipe columns shall be ASTM A53-B (minimum yield strength = 35 KSI).
3. Connection bolts and anchor bolts shall be ASTM A307 unless noted otherwise. Minimum of 2 bolts per connection.
4. Fillet welds shall be made with ETOXX rod, size 3/16" and continuous unless noted.
5. Groove welds shall be made with ETOXX rod, and be full penetration and continuous, unless noted otherwise.



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SHEET:

S = 1