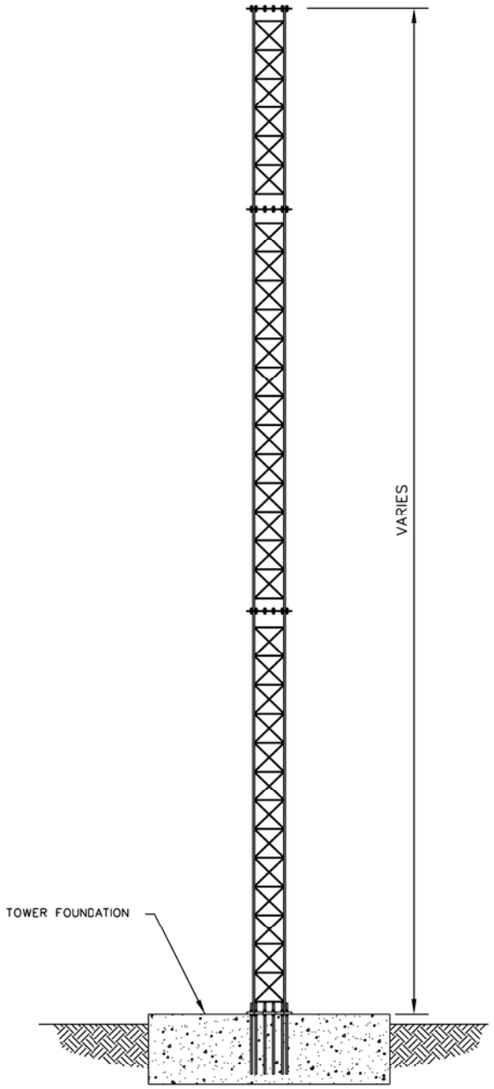
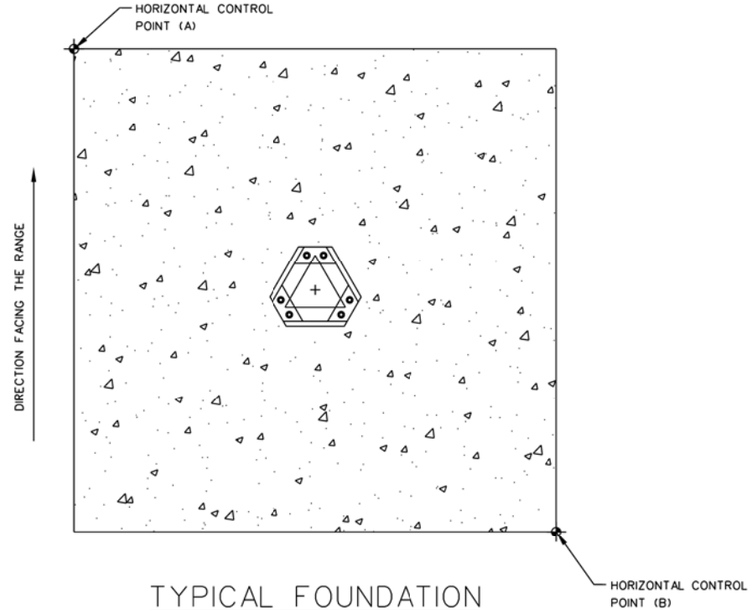


FIXED HEIGHT
FLIR CAMERA TOWER

SCALE: N.T.S.



TYPICAL FOUNDATION

SCALE: N.T.S.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE CAMERA TOWER AND FOUNDATION. THE TOWER SHALL BE DESIGNED TO MEET THE CRITERIA OUTLINED ON THIS SHEET. THE TOWER AND FOUNDATION SHOWN ON THIS SHEET ARE TYPICAL AND FOR ILLUSTRATIVE PURPOSED ONLY.

2. TOWER HEIGHTS SHALL BE AS NOTED ON THIS SHEET.

3. TOWER DESIGN SHALL CONFORM TO STANDARD EIA/TIA-22-F FOR 125 MPH BASIC WIND SPEED WITH NO ICE. THE MAXIMUM ACCEPTABLE SWAY FOR INSTRUMENTED RANGES IS 13mm IN A 50 kph WIND WITH A 600mm CUBE WEIGHING 32 kg CENTERED ON TOP (ONE HALF INCH IN A 30mph WIND WITH A 2 FOOT CUBE WEIGHING 70lbs)

4. MATERIAL: MATERIAL FOR CONSTRUCTION OF THE TOWER SHALL BE AS IS ACCEPTED AS STANDARD PRACTICE WITHIN THE TOWER INDUSTRY.

5. THE TOWER SHALL BE GROUNDED IN ACCORDANCE WITH EIA STANDARDS.

6. THE FOUNDATION SHOWN IS TYPICAL. THE CONTRACTOR SHALL PROVIDE A DESIGN SUBMITTAL PACKAGE TO THE CONTRACTING OFFICER THAT IS STAMPED BY AN ENGINEER REGISTERED IN THE STATE. THE FOUNDATION TYPE IS TOTALLY THE CHOICE OF THE CONTRACTOR.

7. THE TOWER IS TO BE LOCATED AS SHOWN IN THE PLANS. CONTRACTOR SHALL VERIFY SOIL CONDITIONS AND STRENGTHS PRIOR TO THE DESIGN OF THE FOUNDATION.

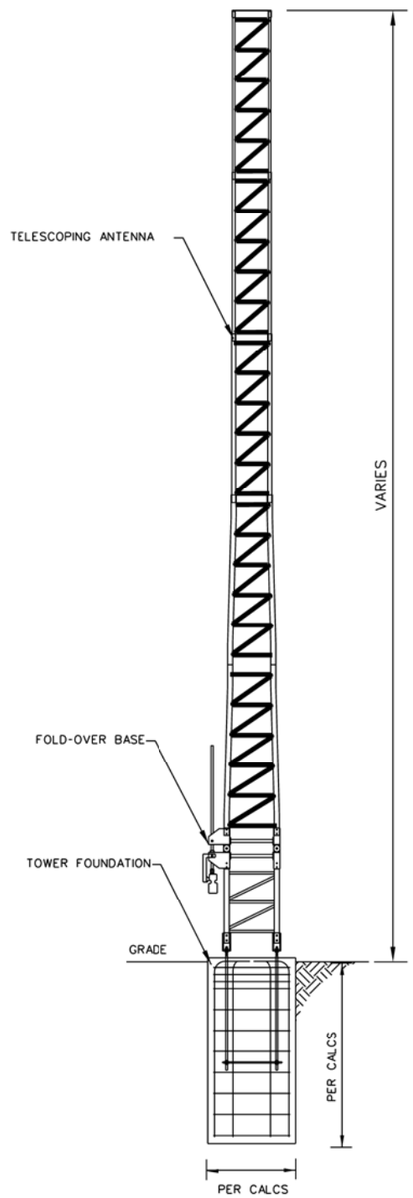
8. THE FOUNDATION DESIGN PACKAGE SHALL INCLUDE ALL RELATIVE INFORMATION THE ENGINEER USED TO DETERMINE HIS DESIGN, INCLUDING (BUT NOT LIMITED TO) SOIL PRESSURE, CONCRETE STRENGTH, REBAR SIZING AND MATERIAL, EXCAVATION AND BACKFILL REQUIREMENTS, SOIL TYPE, SOIL COHESION, SOIL UNIT WEIGHT, INTERNAL ANGLE OF FRICTION, GROUND WATER ASSUMPTIONS, AND FROST ACTION CONSIDERATIONS.

9. THE CONTRACTOR SHALL COMPLETE TOWER ASSEMBLY DRAWINGS, MATERIAL LISTS, DESIGN CALCULATIONS, TOWER INSTALLATION DETAILS, AND ACCESSORY LISTS.

10. THE TOWER SHALL NOT BE GUYED AND MUST BE FULLY SELF-SUPPORTING UNDER ALL OUTLINED DESIGN CRITERIA.

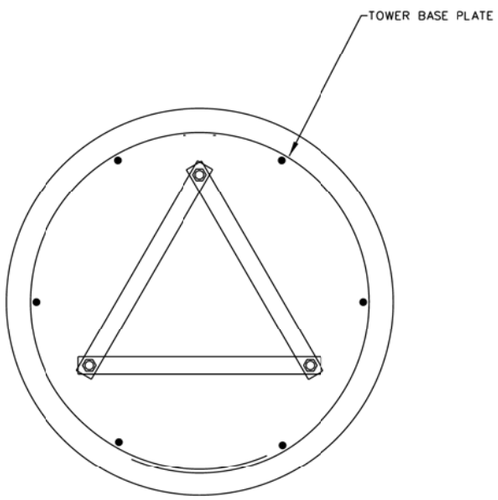
11. CONTRACTOR SHALL INCLUDE AN AVIATION OBSTRUCTION LIGHT IN DESIGN OF TOWER.

12. THE CONTRACTOR SHALL PROVIDE A 2 FOOT SQUARE, ONE HALF INCH THICK, CAMERA MOUNTING PLATE ON TOP OF THE TOWER DESIGNED TO SUPPORT 70 LBS.



FOLD-OVER TELESCOPING
FLIR CAMERA TOWER

N.T.S.



TYPICAL FOUNDATION

N.T.S.

US Army Corps of Engineers

Rev.	Description	Date	Approved

Designed by: | Date: | Rev.
Dwn by: | Ckd by: | Design file no.
Reviewed by: | Drawing code:
Submitted by: | File name / Plot scale / Plot scale:

U. S. ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA

JULY 2011

RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL

TYPICAL CAMERA TOWERS

Sheet reference number:
CD-26