FINAL ENGINEERING

CT 1887
455 VALLEY ROAD
COS COB, CT 06807

STEALTH® JOB#: CT11-01022W-33R0

DRAWING INDEX

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GENERAL

1. THE TYPICAL NOTES SHALL APPLY FOR ALL CASES UNLESS OTHERWISE SPECIFICALLY DETAILED WITHIN THE DRAWINGS. SOME NOTES MAY NOT BE APPLICABLE IN PART OR IN WHOLE FOR EVERY PROJECT.
2. ANY ITEMS REFERENCED AS BEING "HELID" ARE TO BE INCLUDED IN THE WORK AS SHOWN. HOWEVER, CONSTRUCTION OR FIXTURE IS NOT TO BEGIN UNTIL "HELID" REFERENCE IS REMOVED.
3. DIMENSIONS CONTAINED WITHIN MUST BE FIELD VERIFIED AND CUSTOMER APPROVED PRIOR TO FIXTURE OF MATERIALS.
4. THE MODIFICATIONS DEPICTED IN THESE DRAWINGS ARE INTENDED TO PROVIDE STRUCTURAL SUPPORT FOR THE ADDITION OF THE ANTENNA SCREENING SYSTEM OUTLINED WITHIN. THE EXISTING STRUCTURE ON BUILDING SHALL BE ANALYZED AND RETROFITTED AS REQUIRED. BY OTHERS, TO WITHSTAND THE LOADS IMPOSED BY THE NEW STEALTH® ENCLOSURE SHOWN ON THE DRAWINGS.
5. ANTENNA CONSENSUAL PRODUCTS SHALL BE INSTALLED BY A CONTRACTOR EXPERENCED IN SIMILAR WORK. CARE SHALL BE TAKEN IN THE INSTALLATION OF ANY AND ALL MEMBERS IN ACCORDANCE WITH RECOMMENDED INDUSTRY STANDARDS AND PROCEDURES. ALL APPLICABLE OSHA SAFETY GUIDELINES ARE TO BE FOLLOWED. STEALTH® IS NOT PROVIDING FIELD INSTALLATION SUPERVISION.
6. THESE DRAWINGS INDICATE THE MAJOR OPERATIONS TO BE PERFORMED, BUT DO NOT SHOW EVERY FIELD CONDITION THAT MAY BE ENCOUNTERED.
7. PROTECTION OF EXISTING STRUCTURES DURING THE COURSE OF THE CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE STRUCTURAL INTENSITY OF THIS STRUCTURE IS DESIGNED TO BE ATTAINED IN ITS COMPLETED STATE, WHILE UNDER CONSTRUCTION ANY TEMPORARY BRACING OR SHIELDING WHICH MAY BE REQUIRED TO MAINTAIN STABILITY PRIOR TO COMPLETION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
9. THE PLANS AND DETAILS WITHIN DO NOT INCLUDE DETAILS OR DESIGN FOR DRAINAGE FROM OR WATERPROOFING OF EXTERIOR OR INTERIOR SURFACES OF THE EXISTING BUILDING OR STRUCTURE. THESE DETAILS MUST BE COMPLETED BY OTHERS.

STEALTH PANELS

1. FASTENER HOLES IN STEALTH PANEL COMPOSITE PANELS ARE NOT FACTORY DRILLED AND MUST BE DRILLED IN THE FIELD. TO PROVIDE THE LOCKING COMPONENT TO THE THREADED NUTS OF TIGHT BOLTS, USE THIN BED OF EPOXY TO LOCK THE NUTS TO THE TIGHT BOLTS AND STEALTH® STAINLESS STEEL PANEL BOLTS. USE WASHER OR FLANGED HEAD BOLT OR FASTENER With LARGE BORE SURFACE.
2. PANELS WILL EXPAND AND CONTRACT DUE TO TEMPERATURE. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EXPOSED SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES. WHEN INSTALLING PANELS IN COLD TEMPERATURES, EXPOSED SPACE PANELS ALONG LENGTH OF SCREEN WALL WITH EQUAL GAPS BETWEEN PANELS TO ALLOW FOR EXPANSION DURING WARM TEMPERATURES.
3. ADJACENT FLAT PANELS ARE JOINED BY A VERTICAL FOAM SPLINE THAT IS INSERTED INTO ORificES CUT INTO THE SIDE OF EACH PANEL. DO NOT LIFT PANELS BY GRIPPING PANELS MUST BE LIFTED WITH FORCES DIRECTED ONTO PANEL SURFACE.
4. ADJACENT RADIUS PANELS ARE JOINED WITH A RADIUS JOINT. INSERT PANELS INTO EACH SIDE OF RADIUS CHAMBER. NO RADIUS PANELS TO DETERMINE PROPER SPACING. INSTALL PANELS WITH CONNECTORS USED TO COVER THE GAP BETWEEN PANELS TO ALLOW FOR EXPANSION AND CONTRACT.
5. SURFACES OF PANELS SHALL BE COATED WITH SUITABLE PAINT FOR UV PROTECTION. TOP EDGE OF PANEL MUST BE COVERED TO PREVENT WATER TRAVEL BETWEEN PANELS. USE SHEWRY WILLIAMS "COATHAM" OR PLACE APPROVED EQUIVALENT.
6. EXPOSED TOP AND SIDE FOAM EDGES OF PANELS MUST BE COVERED OR COATED FOR UV PROTECTION. STEALTH® WILL PROVIDE PANEL CODE CAPS TO BE APPLIED FOR THIS PURPOSE FOR MOST APPLICATIONS. PANEL EDGE CAPS TO BE SOURED WITH T-FORM SCREW INSTALLED INTO 1/8" MINIMUM SPACING.

DESIGN REACTIONS UNFACTORED

TYPICAL AT EACH OF (4) PIPED COLUMN BASE PLATES AT UPPER ASSEMBLY

\[ R = 5.4 \times (\text{Climb}) \times 4.3 \times (\text{Up}) \times (\text{Dead + Wind}) \]

TYPICAL AT EACH OF (4) BOTTOM BOLED CHANNEL PLATES AT UPPER ASSEMBLY

\[ R = 0.1 \times (\text{Climb}) \times (\text{Dead}) \]

TYPICAL AT LOWER PANEL ASSEMBLY

\[ W = 2 \times \text{PSF} \]

APPROXIMATE WEIGHT OF UPPER ASSEMBLY \( = 8,600 \text{ LBS (EXCLUDING ANTI-MOUNTS)} \)

APPROXIMATE WEIGHT OF LOWER PANELS \( = 2,100 \text{ LBS} \)

DESIGN OF THE STEEL SUPPORT PLATFORM AT UPPER ASSEMBLY. STEEL SUPPORT FRAME AT LOWER ASSEMBLY. CONNECTION OF STEEL SUPPORT FRAME TO EXISTING TANK AND VERIFICATION OF THE ADEQUACY OF THE EXISTING TANK TO BE BY OTHERS.

STRUCTURAL STEEL

1. STEEL FABRICATION AND INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL AND SPECIFICATIONS.
2. STEEL (SHAPE, ANGLE, CHANNEL, AND MISCELLANEOUS MEMBERS) SHALL CONFORM TO ASTM A36 (25 KSI YIELD STRENGTH) STEEL SPECIFICATIONS, U.S.D.
3. STEEL PLATE MEMBERS SHALL CONFORM TO ASTM A572 GR 50 (50 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.S.D.
4. STEEL TUBE MEMBERS SHALL CONFORM TO ASTM A500 GRADE B (29 KSI MIN. YIELD STRENGTH) STEEL SPECIFICATIONS, U.S.D.
5. STEEL PIPE MEMBERS SHALL CONFORM TO ASTM A53, AS13 OR AS19 AS NOTED ON THESE DRAWINGS, U.S.D.
6. BOLTS SHALL BE DOMESTIC, NEW HIGH STRENGTH GALLUMIZED BOLTS, BEARING TYPE "A" (THESE EXCLUDED), UNLESS NOTED OTHERWISE, AND SHALL CONFORM TO ASTM A588 SPECIFICATIONS, U.S.D.
7. STRUCTURAL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD.
8. BOLT HOLE CODE DISTANCES SHALL BE A MINIMUM 1.0, U.S.D.
9. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1 FOR STEEL AND AWS D1.2 FOR ALUMINUM.
10. STEEL SHALL BE HOT DIP GALLUMIZED PER ASTM A125 SPECIFICATIONS AFTER FABRICATION OR PAINTED WITH RUST INHIBITIVE PRIMER.
11. STEEL HARDWARE SHALL BE HOT DIP GALLUMIZED PER ASTM A551, U.S.D.
12. AFTER ANY FIELD HOLE PUNCHING OR DRILLING OR CUTTING HAS BEEN COMPLETED, OR FOR ANY DAMAGED STRUCTURAL MEMBER, TOUCH UP ALL BARE MATERIAL, AND WELD/FOIL AREAS WITH TWO COATS OF BAL-CON OR SWAROOL TO RESTORE THE GALVANIZED PROTECTION ON THE MEMBERS.
13. ALL WELDED STEEL ASSEMBLIES AND INDIVIDUAL STEEL PARTS SHOULD HAVE THE PART NUMBER WELDED INTO THE PART OR ASSEMBLY. THE PART NUMBERS SHOULD BE LOCATED CONSISTENCY AND AWAY FROM ANY CONNECTION POINT TO AVOID ANY INTERFERENCE ISSUES WITH THE WELD.

BOTTOM STRUCTURAL MEMBER

1. FPR STRUCTURAL MEMBERS SHALL BE STEALTH FPR SERIES 1505, MANUFACTURED USING THE PURIFICATION PROCESS.
2. IF PRE-FABRICATED MEMBERS DO NOT ASSEMBLE PER PLAN, CONTACT STEALTH® CONSENTATIVE SOLUTIONS, INC. BEFORE CUTTING OR ALTERING PRE-FABRICATED MEMBERS.
3. FPR STRUCTURAL MEMBERS SHALL BE FABRICATED AND ASSEMBLED AS NOTED ON THE DRAWINGS.
4. THE CONTRACTOR SHALL PROTECT THE FPR STRUCTURAL MEMBERS FROM ADVERSE TO PREVENT BREAKAGE, NECKS, Gouges, ETC. DURING FABRICATION, HANDLING, INSTALLATION.
5. FPR BOLTS SHOULD BE TIGHTENED IN TURN PAST SNUG AND LOCKED WITH LOCK."
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<td>8-22-12</td>
<td>FINAL ENGINEERING - REVISED COLUMN BASE PLATES AND WELDS; ADDED BOLTS TO CONNECT TOP CHANNEL ASSEMBLY, DESIGN REACTIONS &amp; NOTES</td>
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