GENERAL NOTES

1. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED, AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF FLORIDA.
2. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2014 (5TH EDITION).
3. ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH ANSI/TIA-1019-A "STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS".
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR THE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OR FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE THE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATION, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
11. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
12. IF APPLICABLE, ALL CONCRETE WORK SHALL COMPLY TO LOCAL CODES AND THE ACI 318-05, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
13. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY, OR CITY) ENGINEER.
14. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
15. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION, NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLY FOR CONTACT BY COVERING AGENCY INSPECTORS.

STRUCTURAL STEEL NOTES

1. THE FEBRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, 13th EDITION.
2. UNLESS OTHERWISE NOTED, ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:
   STRUCTURAL STEEL:
   - ANGLE: ASTM A36
   - PIPE/TUBE: ASTM A500-50
   - PLATE: ASTM A36 (SELF SUPPORTING AND GUYED TOWERS)
   - PLATE: ASTM A572-65 (MONOPOLE)

   A. ALL BOLTS, ASTM A325 TYPE 1 GALVANIZED HIGH STRENGTH BOLTS.
   B. ALL U-BOLTS, ASTM A193 GRADE
3. ALL CONNECTIONS NOT FULLY DETAILED ON THESE PLANS SHALL BE DETAILED BY THE STEEL FABRICATOR IN ACCORDANDCE WITH AISC SPECIFICATION FOR MANUAL OF STEEL CONSTRUCTION, LOAD AND RESISTANCE FACTOR DESIGN, 13TH EDITION.
4. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER.
5. HOT-DIP CALVANIZE ALL ITEMS UNLESS OTHERWISE NOTED, AFTER FABRICATION WHERE PRACTICABLE. GALVANIZING: ASTM A123, ASTM, A153/A153M OR ASTM A653/A653M, G90, AS APPLICABLE.
6. REPAIR DAMAGED SURFACES WITH GALVANIZING REPAIR METHOD AND PAINT CONFORMING TO ASTM A780 OR BY APPLICATION OF STICK OR THICK PASTED MATERIAL SPECIFICALLY DESIGNED FOR REPAIR OF GALVANIZING CLEAN AREAS TO BE REPAIRED AND REMOVE SLAG FROM WELDS. HEAT SURFACES TO WHICH STICK OR PASTE; MATERIAL IS APPLIED, WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLICS IN STICK OR PASTED; SPREAD MOLTEN MATERIAL UNIFORMLY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.
7. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED BOLTS.
8. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO EXCLUDE THE THREADS FROM THE SHEAR PLANE.
9. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
10. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.

BOLT TIGHTENING PROCEDURE

1. TIGHTENING CONNECTION BOLTS BY AISC – "TURN OF THE NUT" METHOD, USING THE CHART BELOW.

   - BOLT LENGTHS UP TO AND INCLUDING FOUR DIA.

⅜" BOLTS UP TO AND INCLUDING 1.5" LENGTH	+⅓ TURN BEYOND SNUG TIGHT
½" BOLTS UP TO AND INCLUDING 2.0" LENGTH	+⅓ TURN BEYOND SNUG TIGHT
⅝" BOLTS UP TO AND INCLUDING 2.5" LENGTH	+⅓ TURN BEYOND SNUG TIGHT
¾" BOLTS UP TO AND INCLUDING 3.0" LENGTH	+⅓ TURN BEYOND SNUG TIGHT
⅞" BOLTS UP TO AND INCLUDING 3.5" LENGTH	+⅓ TURN BEYOND SNUG TIGHT
1" BOLTS UP TO AND INCLUDING 4.0" LENGTH	+⅓ TURN BEYOND SNUG TIGHT

   - BOLT LENGTHS OVER FOUR DIA. BUT NOT EXCEEDING EIGHT DIA

⅜" BOLTS 1.75" TO 3.0" LENGTH	+½ TURN BEYOND SNUG TIGHT
½" BOLTS 2.25" TO 4.0" LENGTH	+½ TURN BEYOND SNUG TIGHT
⅝" BOLTS 2.75" TO 5.0" LENGTH	+½ TURN BEYOND SNUG TIGHT
¾" BOLTS 3.25" TO 6.0" LENGTH	+½ TURN BEYOND SNUG TIGHT
⅞" BOLTS 3.75" TO 7.0" LENGTH	+½ TURN BEYOND SNUG TIGHT
1" BOLTS 4.25" TO 8.0" LENGTH	+½ TURN BEYOND SNUG TIGHT

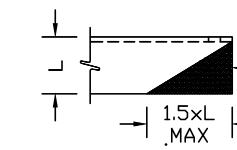
2. CONNECTION BOLTS SUBJECT TO DIRECT TENSION SHALL BE INSTALLED AND TIGHTENED AS PER SECTIONS 8.2.1 OF THE AISC SPECIFICATION FOR STRUCURAL JOINTS USING A325 OR A490 BOLTS, LOCATED IN THE AISC MANUAL OF STEEL CONSTRUCTION. THE INSTALLATION PROCEDURE IS PARAPHRASED AS FOLLOWS:

3. FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES AND TIGHTENED BY ONE OF THE METHODS DESCRIBED IN SUBSECTION 8.2.1 THROUGH 8.2.4

   - 8.2.1 TURN-OF-THE-NUT TIGHTENING
   BOLTS SHALL BE INSTALLED IN ALL HOLES OF THE CONNECTION AND BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1, UNTIL ALL THE BOLTS ARE SIMULTANEOUSLY SNUG TIGHT AND THE CONNECTION IS FULLY COMPACTED. FOLLOWING THIS INITIAL OPERATION ALL BOLTS IN THE CONNECTION SHALL BE TIGHTENED FURTHER BY THE APPLICABLE AMOUNT OF ROTATION SPECIFIED ABOVE. DURING THE TIGHTENING OPERATION THERE SHALL BE NO ROTATION OF THE PART NOT TURNED BY THE WRENCH. TIGHTENING SHALL PROGRESS SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT IN A MANNER THAT WILL MINIMIZE RELAXATION OF PREVIOUSLY PRETENSIONED BOLTS.

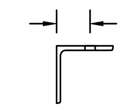
4. ALL OTHER BOLTED CONNECTIONS SHALL BE BROUGHT TO A SNUG TIGHT CONDITION AS DEFINED IN SECTION 8.1 OF THE SPECIFICATION.

ALLOWED ANGLE COPE



WORKABLE GAGES

LEG	4"	3½"	3"	2½"	2"	1¾"
G	2½"	2"	1¾"	1⅜"	1⅛"	1"



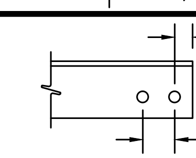
NOTE:
MATCH EXISTING
WHEN APPLICABLE

NOMINAL HOLE SIZES

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT
½"	9/16"	9/16" X 11/16"
⅝"	11/16"	11/16" X ⅞"
¾"	13/16"	13/16" X 1"
⅞"	15/16"	15/16" X 1⅛"
1"	1 1/16"	1 1/16" X 1 5/16"

BOLT EDGE & SPACING

BOLT DIAMETER	MIN. EDGE	SPACING
½"	⅞"	1½"
⅝"	1⅛"	1⅞"
¾"	1¼"	2¼"
⅞"	1½"	2⅝"
1"	1¾"	3"



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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

STRUCTURAL NOTES

SHEET NUMBER

SN1

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
1		
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PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	

GENERAL NOTES

A) ALL WORK SHALL BE IN COMPLIANCE WITH FLORIDA BUILDING CODE-2014 (5TH EDITION). ALL ITEMS WHETHER SHOWN IN PLANS OR NOT SUCH AS HVAC, FIRE SPRINKLERS, ELECTRICAL, PLUMBING, ETC. (IF APPLICABLE) SHALL BE INSTALLED/DESIGNED IN ACCORDANCE WITH ALL OF THE FOLLOWING CODES AS APPLICABLE:

FLORIDA BUILDING CODE-2014
FLORIDA MECHANICAL CODE-2014
FLORIDA PLUMBING CODE-2014
FLORIDA FUEL GAS CODE-2014
FLORIDA RESIDENTIAL CODE-2014
FLORIDA ACCESSIBILITY CODE-2014
FLORIDA ENERGY CODE-2014
FLORIDA EXISTING BUILDING CODE-2014
NATIONAL ELECTRIC CODE-LATEST EDITION
FLORIDA FIRE PREVENTION CODE-LATEST EDITION
NATIONAL ELEVATOR CODE-LATEST EDITION

B) THESE DRAWINGS HAVE BEEN PREPARED WITH THE ASSUMPTION THAT ALL SYSTEMS WILL BE INSTALLED BY QUALIFIED PROFESSIONALS LICENSED BY THE STATE OF FLORIDA FOR THE TYPE OF INSTALLATION INDICATED.

C) ALL TRADES ARE RESPONSIBLE FOR THE PROPER INSTALLATION OF THEIR PARTICULAR TRADE IN ACCORDANCE WITH FLORIDA BUILDING CODE-2010. THESE PLANS REFLECT A GENERAL LAYOUT AND DESIGN OF BUILDING COMPONENTS AND MAY NOT SHOW ALL ITEMS REQUIRED FOR COMPLETE INSTALLATION PER CODE(S)

D) HVAC, PLUMBING, AND ELECTRICAL SYSTEMS MAY BE DESIGNED BY CONTRACTOR PER FLORIDA STATUTES CHAPTER 471.003.2.H UNDER THE FOLLOWING CONDITIONS: (AS QUOTED FROM FLORIDA STATUTES) (SEE FLORIDA STATUTES FOR OTHER EXEMPTIONS/CONDITIONS)

FS-471.003.2

"THE FOLLOWING PERSONS ARE NOT REQUIRED TO BE LICENSED UNDER THE PROVISIONS OF THIS CHAPTER AS A LICENSED ENGINEER:

H) ANY ELECTRICAL, PLUMBING, AIR-CONDITIONING, OR MECHANICAL CONTRACTOR WHOSE PRACTICE INCLUDES THE DESIGN AN FABRICATION OF ELECTRICAL, AIR-CONDITIONING, OR MECHANICAL SYSTEMS RESPECTIVELY, WHICH SHE OR HE INSTALLS BY VIRTUE OF A LICENSE ISSUED UNDER CHAPTER 489, UNDER PART I OF CHAPTER 553, OR UNDER ANY SPECIAL ACT OR ORDINANCE WHEN WORKING ON ANY CONSTRUCTION PROJECT WHICH:
1) REQUIRES AN ELECTRICAL OR PLUMBING OR AIR-CONDITIONING AND REFRIGERATION SYSTEM WITH A VALUE OF $125,000 OR LESS; AND
2) A) REQUIRES AN AGGREGATE SERVICE CAPACITY OF 600 AMPERES (240 VOLTS) OR LESS ON A RESIDENTIAL ELECTRICAL SYSTEM OR 800 AMPERES (240 VOLTS) OR LESS ON A COMMERCIAL OR INDUSTRIAL ELECTRICAL SYSTEM;
B) REQUIRES A PLUMBING SYSTEM WITH FEWER THAN 250 FIXTURE UNITS; OR
C) REQUIRES A HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM NOT TO EXCEED 15-TON-PER-SYSTEM CAPACITY, OR IF THE PROJECT DESIGNED TO ACCOMMODATE 100 OR FEWER PERSONS."

CONSTRUCTION:

A) USE PROPERLY DESIGNED SHORING, BRACING, UNDERPINNING, ETC. AS REQUIRED BY CONDITIONS. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION.

B) BRACE ALL WALLS DURING CONSTRUCTION TO PREVENT DAMAGE FROM WIND, WATER, EARTH PRESSURE AND CONSTRUCTION LOADS UNTIL ALL SUPPORTING ELEMENTS ARE IN PLACE AND OF SUFFICIENT STRENGTH.

C) NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE STRUCTURAL ENGINEER.

D) PROVIDE SLEEVE LAYOUTS FOR ALL PIPES AND ELECTRICAL PENETRATIONS THROUGH STRUCTURAL MEMBERS (ALL TRADES ARE INCLUDED). LAYOUTS ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

E) ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-2014 (5TH EDITION).

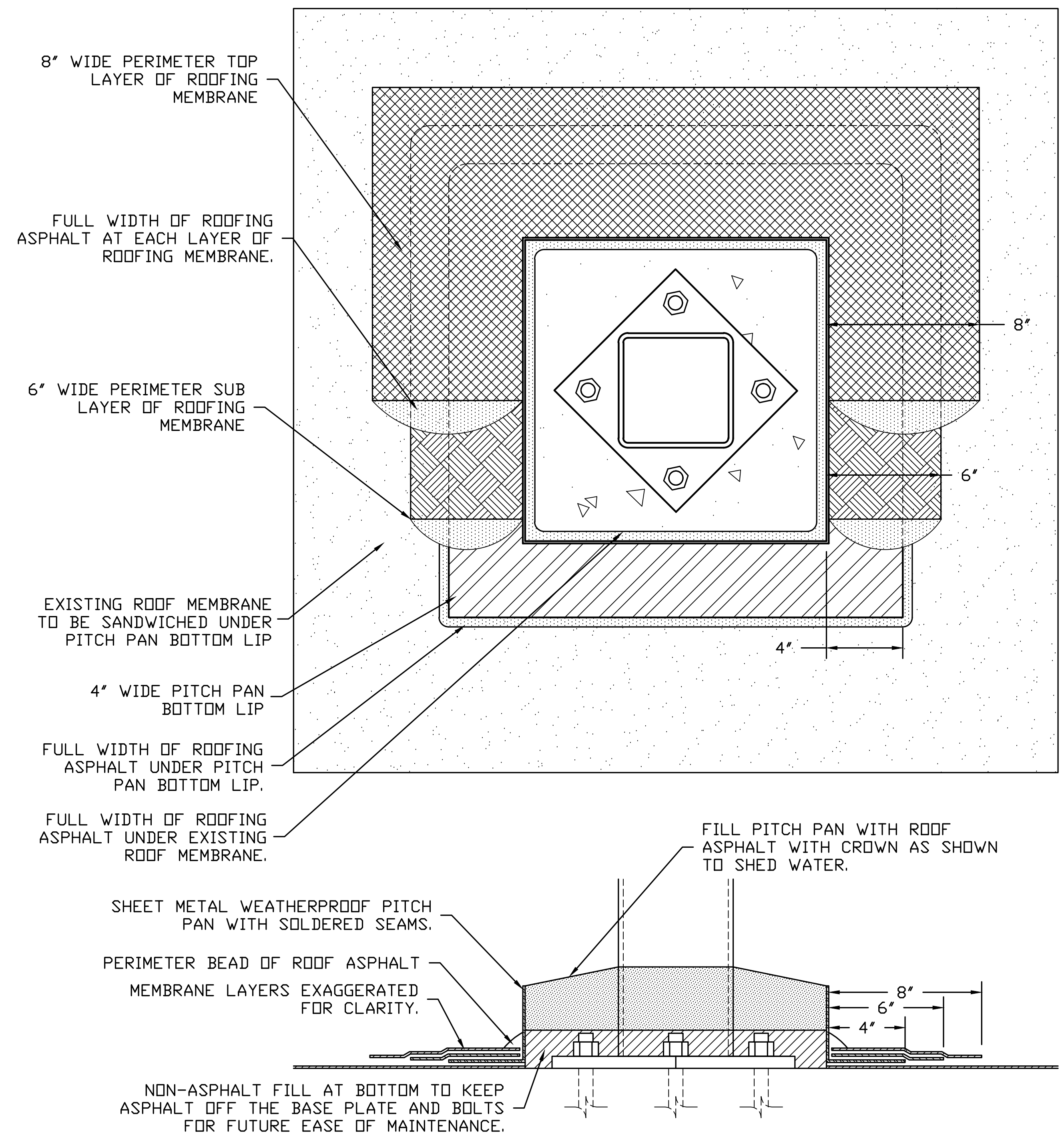
SHOP DRAWINGS

A) NO FABRICATION IS TO PROCEED WITHOUT APPROVED SHOP DRAWINGS.

B) SHOP DRAWINGS SHALL BE SUBMITTED SUCH THAT A MINIMUM OF 10 DAYS IS ALLOWED FOR REVIEW BY THE ENGINEER.

EPOXY:

A) ALL EPOXY SHALL BE HILTI-150 OR EQUIVALENT.



3A / SN2 PITCH POCKET
SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

STRUCTURAL NOTES

SHEET NUMBER

SN2

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	

DESIGN CRITERIA

ANALYSIS CRITERIA:			
Referenced Codes:	Florida Building Code-2014 (5th Edition)	ASCE-7-10	TIA-222-G Addendum-2
Wind Speed:	**Vult =** 146 mph (3 Second Gust)	**Vasd =** 113.2 mph (3 Second Gust)	
Exposure Category: D	**Structure Class: III**	**Internal Pressure Coefficient: 0.00**	
Importance Factor: 1.0	**Topographic Category: I**	**Equipment Platform Floor LL: 60 psf**	

PROPOSED LOADING

TABLE 1.1 LC1: APPURTENANCE LOADING

Elev	Status	Carrier	Appurtenance Description	Transmission/Feed Lines
150'	Final	AT&T	(2)-SBNH-1D6565B	(12)-FXL780 (7/8" Foam)
150'	Final	AT&T	(4)-BSA-M65R-BUU-H6-K	(3)-RET Cable
150'	Final	AT&T	(4)-SBNH-1D4545A	(15)-3/8" Fiber Cable
150'	Final	AT&T	(2)-HPA-45R-BUU-H6-K	(15)-3/4" Power Cable
150'	Final	AT&T	(6)-E15S09P49 TMA	
150'	Final	AT&T	(5)-RRUS-11	
150'	Final	AT&T	(5)-RRUS-12	
150'	Final	AT&T	(5)-RRUS-32	
150'	Final	AT&T	(5)-A2 Module	
150'	Final	AT&T	(6)-DC2-48-60-18-8F	

*** Future/Reserved/Proposed/Removed**

1) All existing antennas and locations were obtained from supporting documents. Daniel F. Ardito, PE did not survey this site.

COMPONENT AND CLADDING WIND PRESSURES

Comp/Clad Pressures (PSF)							Edge Zone: a = 36"			
Area (SF)	Zone-1			Zone-2			Zone-3			
	Roof		OH	Roof		OH	Roof		OH	
	(+)	(-)	(-)	(+)	(-)	(-)	(+)	(-)	(+)	
10	21.6	-38.9	-95.2	21.6	-73.6	-95.2	21.6	-112.5	-160.1	
20	19.0	-37.6	-95.2	19.0	-67.1	-95.2	19.0	-104.7	-144.5	
50	15.6	-35.9	-95.2	15.6	-58.4	-95.2	15.6	-94.4	-123.8	
100	13.0	-34.6	-95.2	13.0	-51.9	-95.2	13.0	-86.6	-108.2	
200	13.0	-34.6	-95.2	13.0	-51.9	-95.2	13.0	-86.6	-108.2	
500	13.0	-34.6	-95.2	13.0	-51.9	-95.2	13.0	-86.6	-108.2	
1000	13.0	-34.6	-95.2	13.0	-51.9	-95.2	13.0	-86.6	-108.2	

	Zone-4		Zone-5	
	Wall		Wall	
	(+)	(-)	(+)	(-)
10	38.9	-38.9	38.9	-77.9
20	38.9	-38.9	38.9	-77.9
50	35.7	-36.8	35.7	-69.2
100	32.5	-34.6	32.5	-60.6
200	29.2	-32.5	29.2	-51.9
500	26.0	-30.3	26.0	-43.3
1000	26.0	-30.3	26.0	-43.3

Wind reduction factor of 0.6 has been included in the above wind pressures.

LIST OF ABBREVIATIONS

AB	ANCHOR BOLT	JCT	JUNCTION
ACT	ACOUSTICAL CEILING TILE	JNT	JOINT
ADJ	ADJACENT	JST	JOIST
AFF	ABOVE FINISHED FLOOR	K	KIP (1,000 POUND)
ALUM	ALUMINUM	KSF	KIP PER SQUARE FOOT
ANSI	AMER NATIONAL STD INSTITUTE	KSI	KIP PER SQUARE INCH
AP	ACCESS PANEL	L	ANGLE
APA	AMER PLYWOOD ASSOCIATION	LAV	LAVATORY (SINK)
ASCE	AMER SOC OF CIVIL ENGINEERS	LBR	LIMEROCK BEARING RATIO
ASCE-7	STRUCTURAL LOAD STANDARD	LD	LOAD
ASTM	AMER SOC FOR TESTING MATER.	LDC	LAND DEVELOPMENT CODE
BLT	BOLT	LL	LIVE LOAD
BRD	BOARD	MAX	MAXIMUM
C	C-CHANNEL	MECH	MECHANICAL
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CJ	CONTROL JOINT	MIN	MINUTE
CLG	CEILING	MFR	MANUFACTURER
CMU	CONCRETE MASONRY UNIT	MTL	METAL
CO	CLEANOUT	MPH	MILE PER HOUR
COEFF	COEFFICIENT	NEC	NATIONAL ELECTRIC CODE
CONC	CONCRETE	NFPA	NATIONAL FIRE PROTECT ASSOC
CONT	CONTINUOUS	NTS	NOT TO SCALE
DBL	DOUBLE	OC	ON CENTER
DIAM	DIAMETER	OD	OUTSIDE DIAMETER
DL	DEAD LOAD	OSB	PARTICLE BRD SHEATHING TYPE
DWG	DRAWING	PE	PROFESSIONAL ENGINEER
DS	DOWN SPOUT	PL	PLATE
DTL	DETAIL	PLUMB	PLUMBING
EJ	EXSPANSION JOINT	PNT	PAINT
ELEC	ELECTRICAL	PRESS	PRESSURE
ELEV	ELEVATION	PSF	PONDS PER SQUARE FOOT
EMB	EMBEDMENT	PSI	POUNDS PER SQUARE INCH
EMBED	EMBEDMENT	PT	PRESSURE TREATED
EWC	ELECTRIC WATER COOLER	REIN	REINFORCING
EX	EXAMPLE	RND	ROUND
EXP	EXPANSIVE OR EXPANSION	RO	ROUGH OPENING
FD	FLOOR DRAIN	SCHD	SCHEDULE
FDOT	FL DEPT OF TRANSPORTATION	SF	SQUARE FEET
FEMA	FED EMERGENCY MANAGE AGENCY	SH	SHEET
FIN	FINISHED	SIM	SIMILAR
FND	FOUNDATION	SIMPSON	BRAND NAME STEEL CONNECTOR
FBC	FLORIDA BUILDING CODE	SP	SOUTHERN PINE
f'c	CONCRETE STRENGTH	SPF	SPRUCE-PINE-FIR (LUMBER)
FLR	FLOOR	SPT	STANDARD PENETRATION TEST
FMC	FLORIDA MECHANICAL CODE	SS	STAINLESS STEEL
FO	FACE OF	SS	SERVICE SINK
FPC	FLORIDA PLUMBING CODE	STD	STANDARD
FRMG	FRAMING	STL	STEEL
FT	FOOT OR FEET	SYP	SOUTHERN YELLOW PINE
FY	YIELD STRENGTH	TB	TECHNICAL BULLETIN
GA	GUAGE	TH	THICK OR THICKNESS
GA	GYPSOM ASSOCIATION	THRU	THROUGH
GAL	GALLON	TPI	TRUSS PLATE INSTITUTE
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UL	UNDERWRITERS LABORATORY
GFCI	GRND FAULT CIRC INTERRUPTER	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	UON	UNLESS OTHERWISE NOTED
GR	GRADE	USP	BRAND NAME STEEL CONNECTOR
GRND	GROUND	VCT	VINYL COMPOSITE TILE
GYP	GYPSOM	VERT	VERTICAL
H/C	HANDICAPPED	WC	WATER CLOSET (TOILET)
HORZ	HORIZONTAL	WL	WIND LOAD
ID	INSIDE DIAMETER	WP	WATER OR WEATHER PROOF
IN	INCH	WWF	WELDED WIRE FABRIC
INSUL	INSULATION	W/	WITH

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

STRUCTURAL NOTES

SHEET NUMBER

SN3

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
1		
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PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	

STEALTH PANEL INSTALLATION NOTES/SPECIFICATIONS

STEALTH PANEL DESIGN NOTES:

1) ALL STEALTH PANELS SHALL BE RF TRANSPARENT.
2) ALL STEALTH PANELS SHALL RESEMBLE THE FINISH AS SPECIFIED IN PLANS. (USUALLY THE EXISTING BUILDING FINISH) ALTERNATE FINISH SHALL BE APPROVED BY OWNER OF MAIN STRUCTURE)
3) ALL STEALTH PANELS SHALL HAVE A CLASS-I FIRE RATING WITH MAXIMUM FLAME SPREAD OF 25.
4) ALL STEALTH PANELS SHALL BE DESIGNED BY FL LICENSED DESIGN PROFESSIONAL WITH DESIGN STRENGTH EQUAL TO OR EXCEEDING THE COMPONENT AND CLADDING DESIGN PRESSURES AS SPECIFIED IN PLANS.

STEALTH PANEL ATTACHMENT NOTES: (UNLESS NOTED OTHERWISE IN DRAWINGS)

1) "STEALTH" PANEL ATTACHMENT SPACING AND OR LOCATIONS SHALL BE SPECIFIED BY "STEALTH".
2) FASTENER SIZE AND EMBEDMENT DEPTH OF ATTACHMENT TO EXISTING BUILDING OR PROPOSED STRUCTURE SHALL BE SPECIFIED/CERTIFIED WITHIN PLANS.

STEALTH MANUFACTURERS SPECIFICATIONS

STEALTHSKIN™V (SSV) Concealment Panel PRODUCT INFORMATION SHEET

DESCRIPTION Through testing and the experience of thousands of concealment sites constructed, STEALTH® Concealment Solutions, Inc. has determined that the type and placement of materials used for screening antennas play a vital role in their performance. All STEALTH® concealment panels allow for superior antenna signal transmission compared to fiberglass without the durability problems of fiberblooming or cracking over time. STEALTH® panels are engineered and manufactured to become part of the existing structure and withstand extreme weather conditions while maintaining their original appearance.

APPLICATIONS STEALTH® SSV panels can be used to manufacture a variety of rooftop and tower type concealment products including screenwalls, wall replacements, side mounted boxes, clock towers, and bell towers.
The panel can be factory textured to match most existing architectural appearances, such as brick, stucco, aggregate, split face block, as well as custom applications.

RECOMMENDED FREQUENCIES STEALTH® generally recommends SSV panels for frequencies up to 7GHz. However, they perform well for certain application types. STEALTH® has insertion loss lab testing for the SSV panels up to 100 GHz at multiple incidence angles and textures. Test results for specific applications are available upon request.

SIZES AVAILABLE STEALTH® SSV panels are available in 4' x 8', 4' x 10', 4' x 12', 5' x 8' and 5' x 10' standard sizes. Custom sizes are available upon request. Nominal panel thickness is 2.1875". Panel weight is 1.4 lb/sf for a smooth/painted texture.

PHYSICAL PROPERTIES STEALTH® SSV panels are manufactured with a sandwich panel geometry. ABS plastic skins are laminated to a extruded polystyrene core using an ICBO approved adhesive. Physical performance properties of the skins and core are listed to the right.

FABRICATION/INSTALLATION STEALTH® SSV panels can be fabricated into various sizes and bent into corner panels and other shapes including radius applications. Due to the critical design aspects of many of its applications, STEALTH® recommends that qualified designers or consultants design a total concealment system to support the panels.

AVAILABILITY STEALTH® maintains inventory of SSV panels and has custom manufacturing capability in its facilities in California and South Carolina. Please contact us at (843) 207-8000 for sales information.

TECHNICAL SERVICES STEALTH® can provide technical information and support to address questions when using SSV panels. Technical personnel are available via telephone at (843) 207-8000.

PHYSICAL PERFORMANCE PROPERTIES OF ABS SKINS

PROPERTY	UNITS	TEST METHOD	RESULT
Specific Gravity	-	ASTM D-792	1.03
Water absorption (Saturated at 23C)	%	ASTM D-570	1.03
Rockwell Hardness	-	ASTM D-785	95
Tensile Modulus (73F)	psi	ASTM D-638	290,000
Tensile Strength, Yield (73F)	psi	ASTM D-638	6240
Tensile Strength Break (73F)	psi	ASTM D-638	4790
Elongation, Yield (73F)	%	ASTM D-638	3.5
Flexural Modulus (73F)	psi	ASTM D-790	297,000
Flexural Strength (73F)	psi	ASTM D-790	9570
Flammability Rating	-	UL94	HB

PHYSICAL PERFORMANCE PROPERTIES OF EXTRUDED POLYSTYRENE CORE

PROPERTY	UNITS	TEST METHOD	RESULT
Density	lb/ft^3	ASTM D 1622	1.5
Compressive Strength	lb/in^2	ASTM D1621	20
Tensile Strength	lb/in^2	ASTM D1623	50
Shear Strength	lb/in^2	ASTM C273	25
Shear Modulus	lb/in^2	ASTM C273	330
Flexural Strength	lb/in^2	ASTM C203	50
Flexural Modulus	lb/in^2	ASTM C203	1600
Water Absorption	% by vol.	ASTM C272	.5
R-Value per Inch	F·ft^2·h/Btu	ASTM C518	5.0
Surface Burning Characteristics (Flame Spread/ Smoke Developed)	-	ASTM E84	15/165

STEALTH® FIRST IN CONCEALMENT

STEALTH Concealment Solutions, Inc.
6549 Fain Boulevard, North Charleston, South Carolina 29406
toll-free 800.755.0689 www.stealthsite.com

WELDING NOTES

1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M: 2008 "STRUCTURAL WELDING CODE—STEEL".
2. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
3. CONTRACTOR SHALL RETAIN AND AWS CERTIFIED WELD INSPECTOR TO PERFORM VISUAL INSPECTIONS ON FIELD WELDS. A LETTER AND REPORT SHALL BE ISSUED TO THE CONTRACTOR. CONTRACTOR SHALL SUBMIT LETTER AND REPORT TO THE ENGINEER OF RECORD.
4. GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. GRIND THE SURFACE OF THE ROD TO BE INSTALLED FOR A DISTANCE OF 2" MINIMUM ALL AROUND THE AREA TO BE WELDED. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING. SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST, MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING.
5. DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0°F, PREHEAT AND MAINTAIN THE STEEL IN THE VICINITY OF THE WELD AREA AT 70°F DURING THE WELDING PROCESS.
6. DO NOT WELD ON WET OR FROST—COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.
7. FOR ALL WELDING, USE E70XX ELECTRODES.
8. AFTER FINAL INSPECTION, THE AREA OF THE WELDS, THE INSTALLATION AND ALL SURFACES DAMAGED BY WELDING OR GRINDING SHALL RECEIVE A COLD—GALVANIZED COATING. THIS COATING SHALL BE APPLIED BY BRUSH. THE GALVANIZING COMPOUND SHALL CONTAIN A MINIMUM OF 95% ± PURE ZINC. THE FINISHED COATING SHALL BE A MINIMUM THICKNESS OF 3 MILS.

SUBORDINATE DESIGN PROFESSIONALS

1. ALL ITEMS NOT SPECIFICALLY DETAILED WITHIN THESE PLANS SHALL BE DESIGNED/CERTIFIED BY A FLORIDA LICENSED DESIGN PROFESSIONAL AS SPECIFIED IN FS-471.003.2.
2. ALL SUBORDINATE DESIGN PROFESSIONALS SHALL DESIGN/CERTIFY FOR THE OVERALL SPECIFICATIONS AS PRESENTED IN THESE PLANS. NO CHANGE IN BUILDING CLASS, WIND SPEED, IMPORTANCE FACTOR, EXPOSURE, ETC WILL BE ACCEPTED UNLESS SPECIFICALLY INDICATED.
3. COMMON SUBORDINATE DESIGN WORK "REQUIRED" FOR THIS TYPE OF PROJECT INCLUDE: FIBERGLASS STEALTH COVERS & PANELS, PRE—MANUFACTURED EQUIPMENT SHELTERS, ROOFING, LIGHT GAGE METAL AND WOOD FRAMING, ROOF TRUSSES, COMPONENTS & CLADDING.
4. ALL SUBORDINATE DESIGNS SHALL BE SUBMITTED FOR "GENERAL" REVIEW OF COMPLIANCE WITH PROJECT DRAWINGS.
5. EACH DESIGN PROFESSIONAL IS RESPONSIBLE FOR THEIR PARTICULAR DESIGN.

BUILDING PERMIT NOTES

1. THE DESIGN AS CONTAINED IN THIS SET OF PLANS ASSUMES PROPER BUILDING PERMITS WILL BE APPLIED FOR AND OBTAINED AND THAT DRAWINGS WILL BE REVIEWED BY THE PROPER GOVERNMENT AGENCIES SUCH AS: BUILDING DEPARTMENT, FIRE MARSHAL, PLANNING/ZONING DEPARTMENT, HEALTH DEPARTMENT, ETC PRIOR TO CONSTRUCTION.
2. ALL DRAWING ERRORS AND CODE INTERPRETATION DIFFERENCES FROM THE VARIOUS GOVERNMENT AGENCIES SHALL BE PRESENTED TO THE ENGINEER OF RECORD PRIOR TO ISSUING A PERMIT OR THE BEGINNING OF CONSTRUCTION.
3. ENGINEER MAY "NOT" BE ABLE TO APPROVE FINISHED NON—PERMITTED WORK (AND SOMETIMES PERMITTED WORK) DUE TO CODE INTERPRETATION DIFFERENCES, LACK OF PROPER INSPECTIONS OF HIDDEN ITEMS, AND CODE CHANGE DIFFERENCES THAT A STANDARD BUILDING PERMIT WOULD LOCK INTO PLACE ON A PARTICULAR PROJECT.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

STRUCTURAL NOTES

SHEET NUMBER

SN4

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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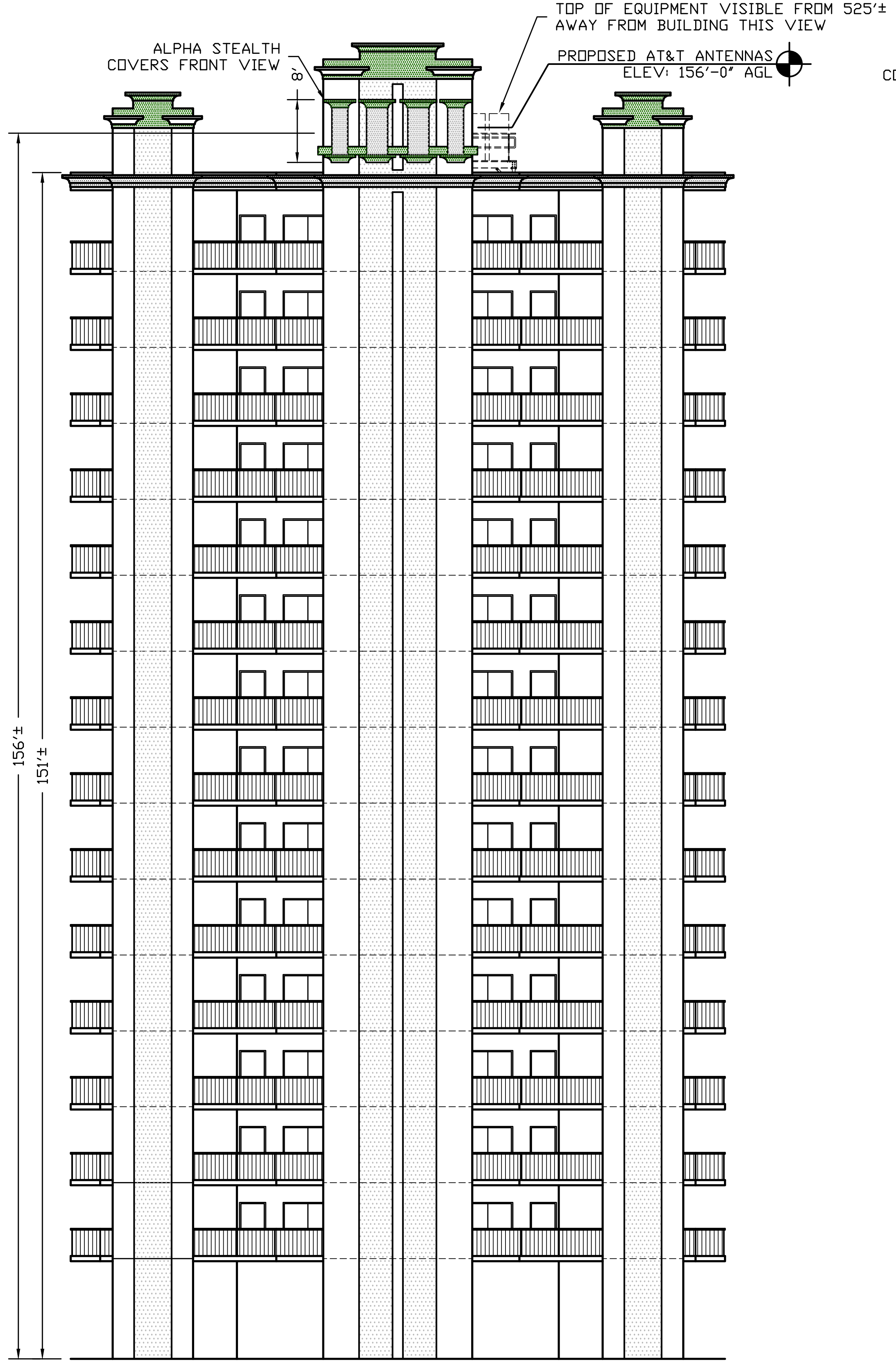
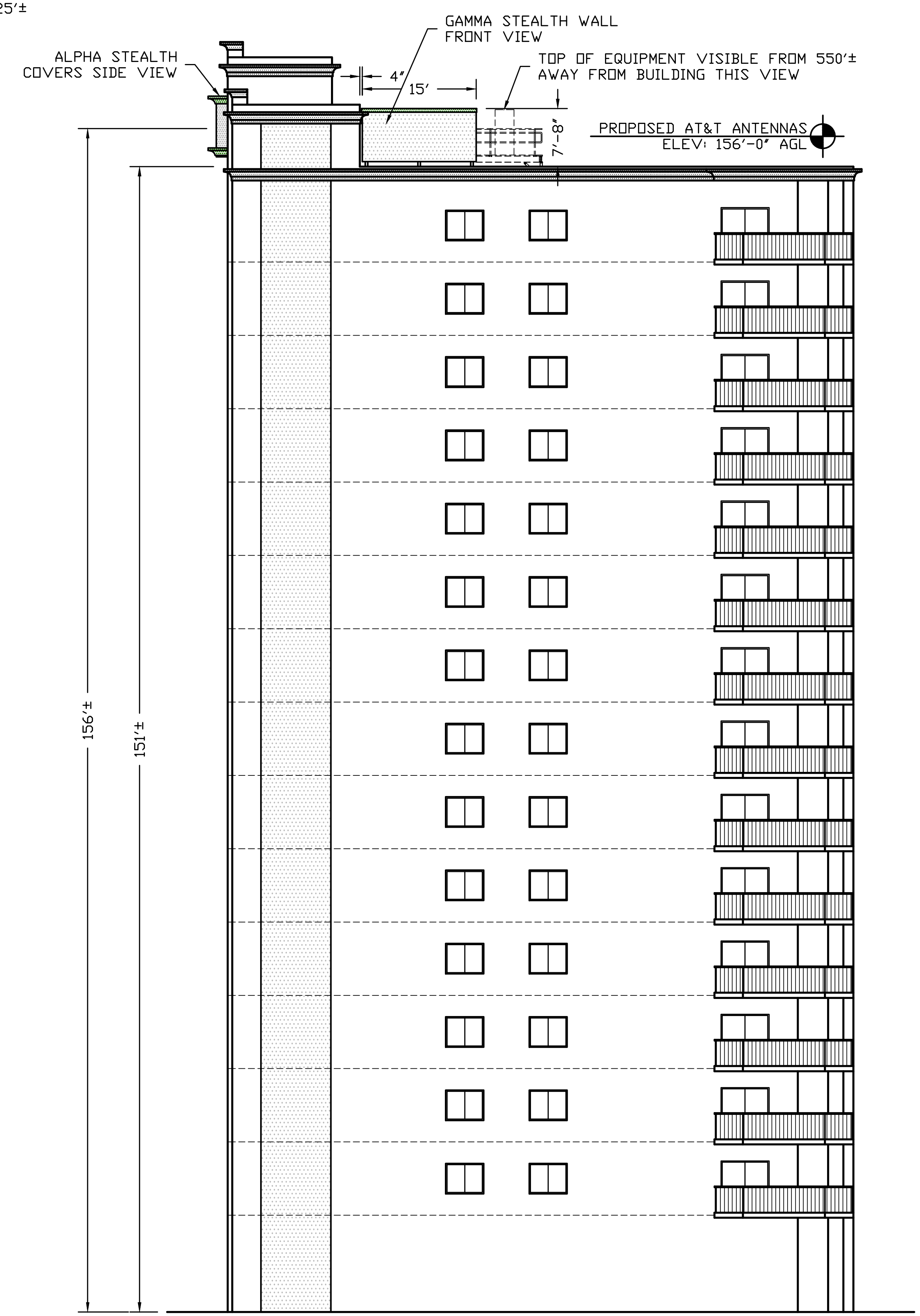
PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	



PROPOSED FRONT ELEVATION

SCALE: N.T.S.



PROPOSED RIGHT ELEVATION

SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

BUILDING ELEVATIONS

SHEET NUMBER

A1

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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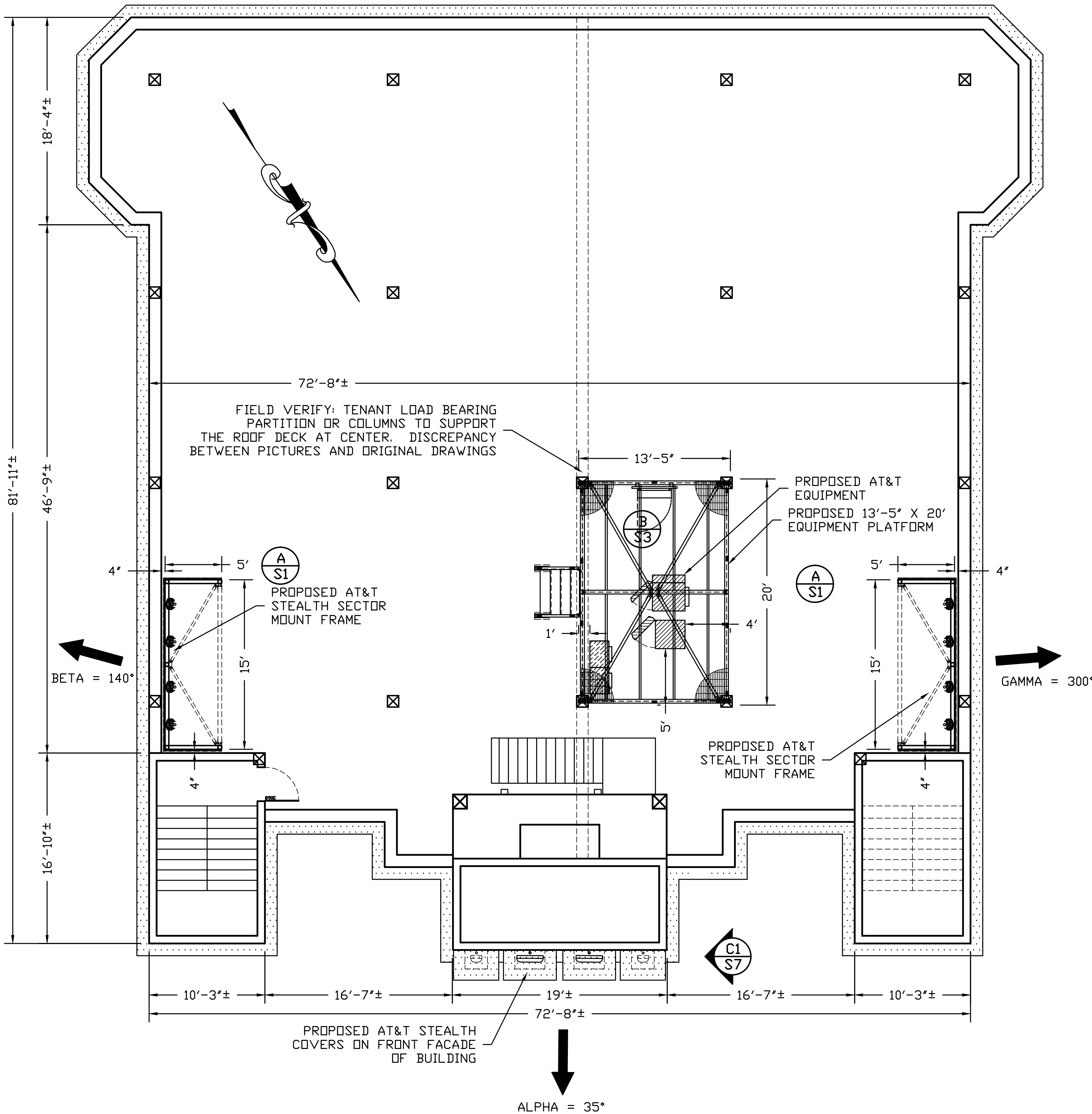
PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	



PROPOSED ROOF PLAN

SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

ROOF PLAN

SHEET NUMBER

A2

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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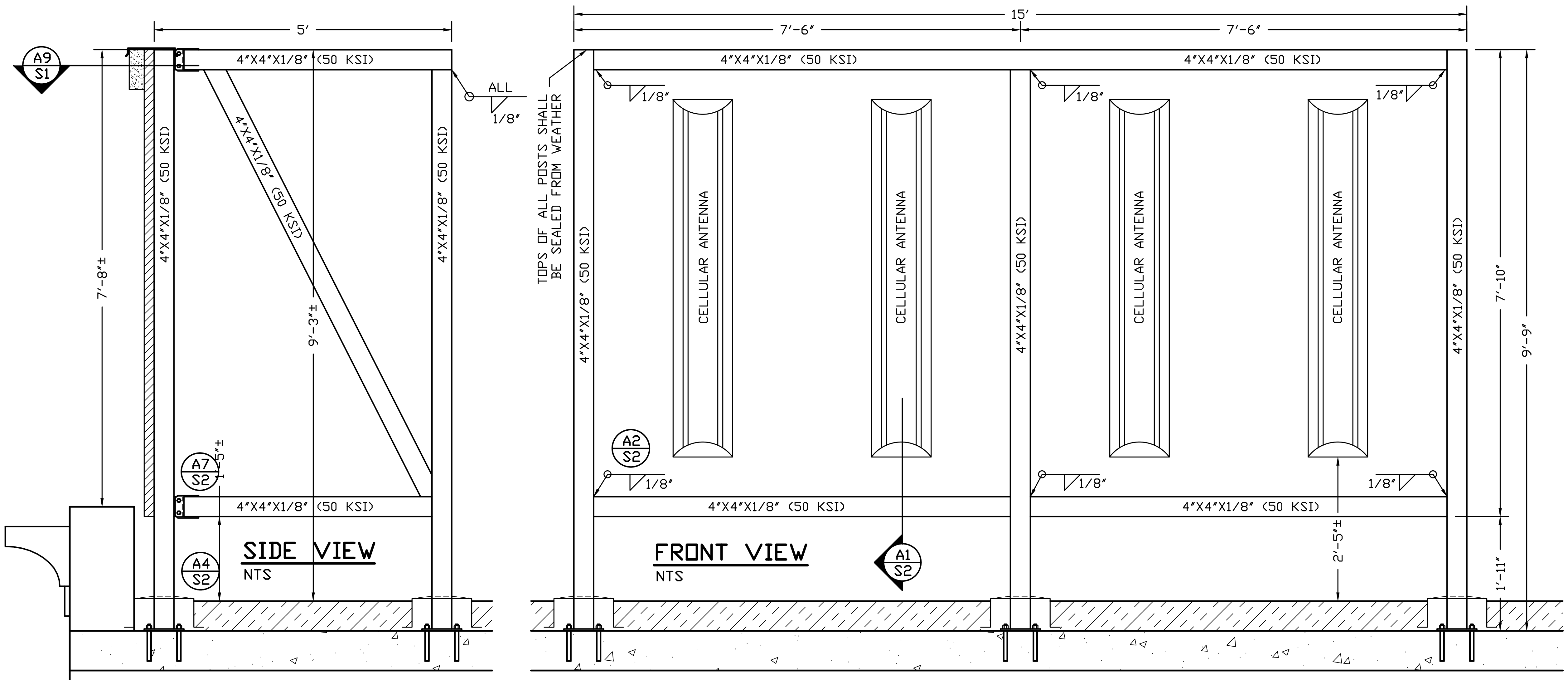
PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	

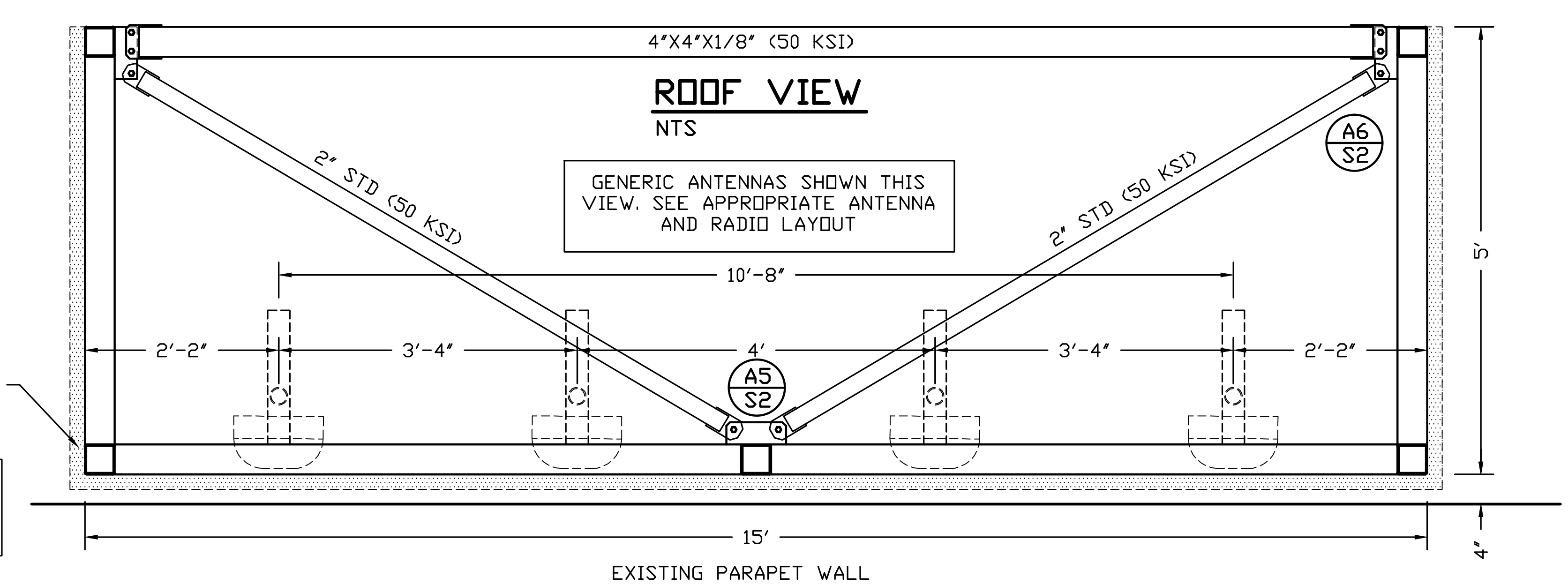


A S1 STEEL FRAMING
SCALE: N.T.S.

NOTE: ALL STEEL FRAME CONNECTIONS TO BE 1/8" FULL PERIMETER FILLET UNLESS SHOWN OTHERWISE.

"STEALTH" PANELS TO SPAN FULL HEIGHT OF FRONT & END WALLS. ATTACHMENT TO STEEL FRAMING BY "STEALTH". SEE "STEALTH" ENGINEERED DRAWINGS. END WALL ADJACENT TO EXISTING PENTHOUSE DOES NOT NEED "STEALTH" PANELS.

ALL FIBERGLASS MATERIALS TO HAVE CLASS-1 FIRE RATING FLAME SPREAD 25 OR LESS CONFIRM COLOR/FINISH WITH OWNER.



A9 S1 ROOF FRAMING
SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

STEALTH WALL PANELS

SHEET NUMBER

S1

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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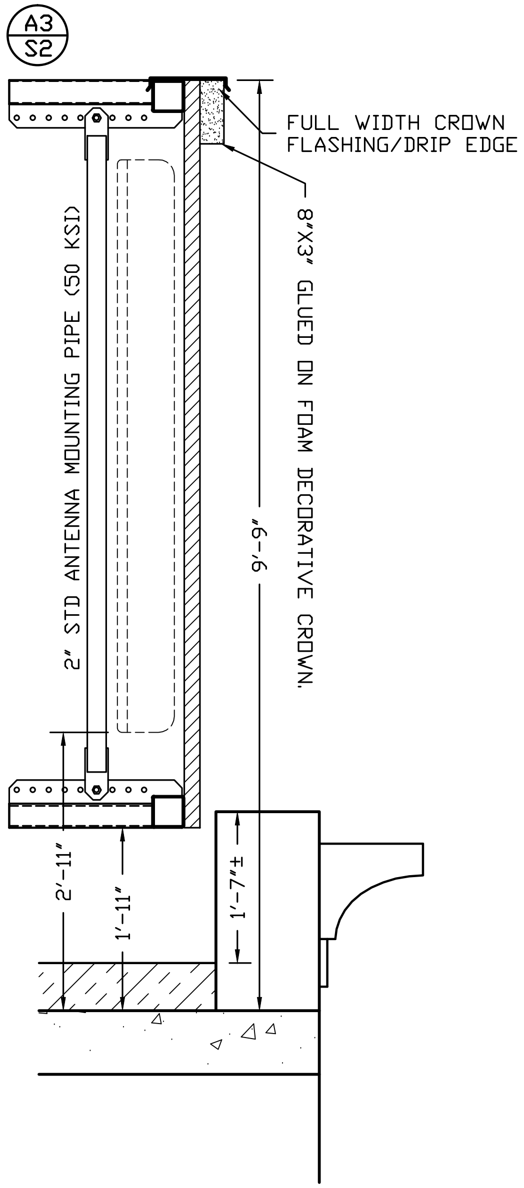
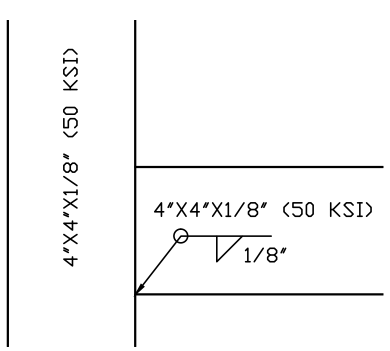
PROJECT NO: 16-???

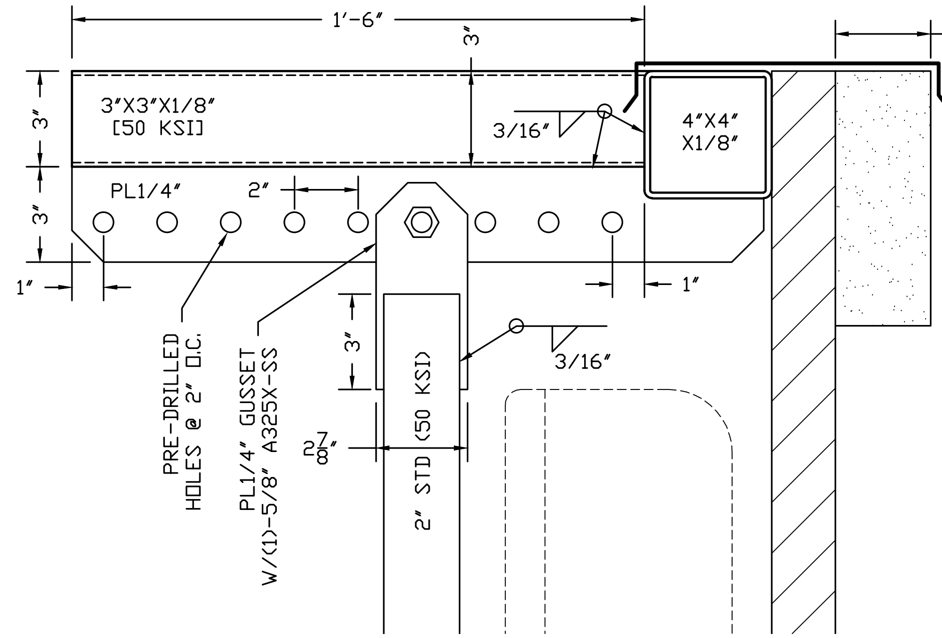
DRAWN BY:	CHECKED BY:
DFA	



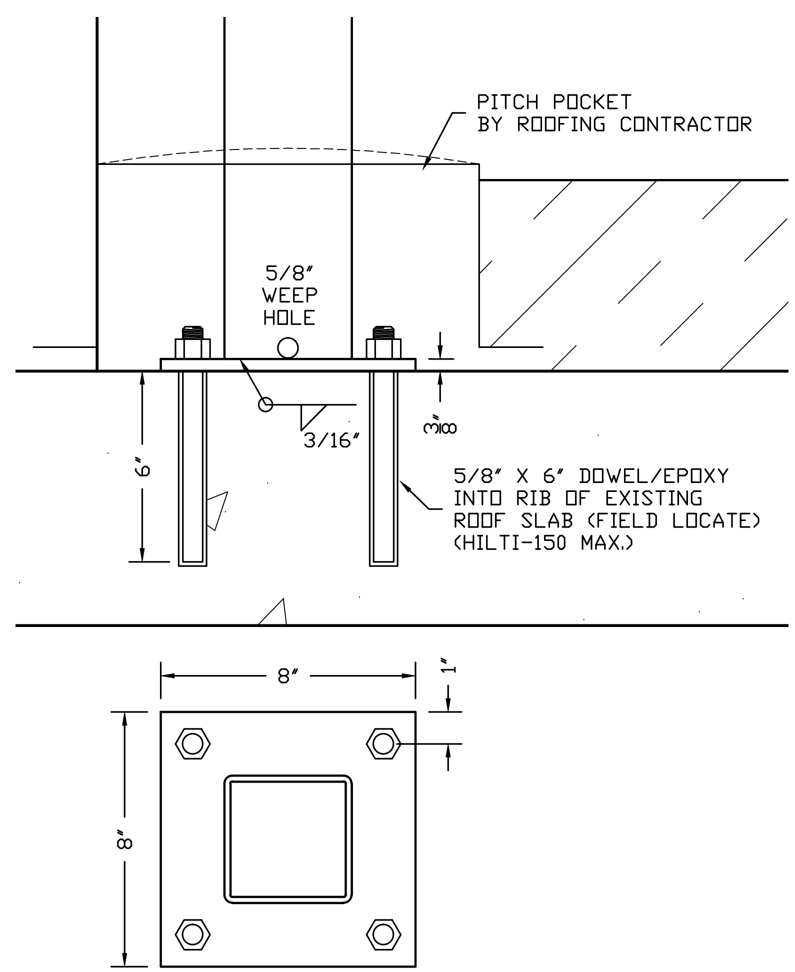
A1 | S2
CONNECTIONS
SCALE: N.T.S.



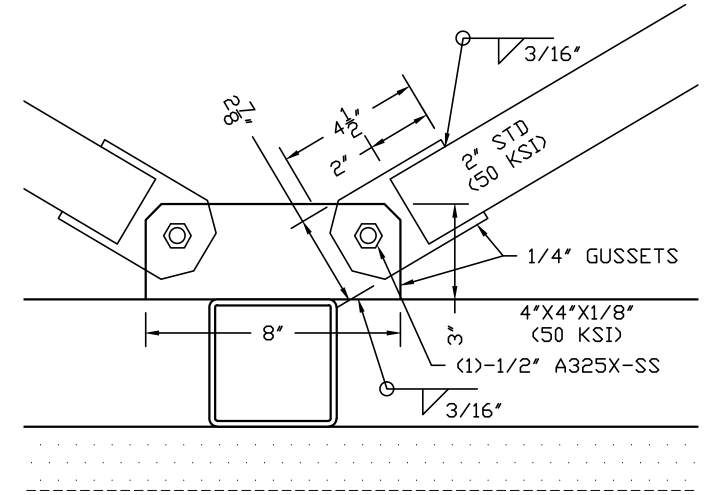
A2 | S2
CONNECTIONS
SCALE: N.T.S.



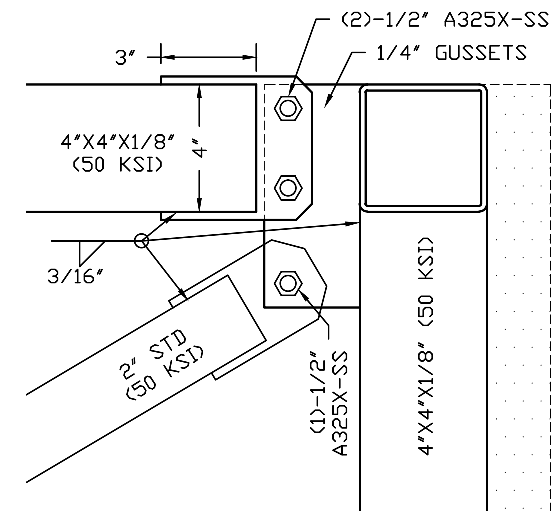
A3 | S2
CONNECTIONS
SCALE: N.T.S.



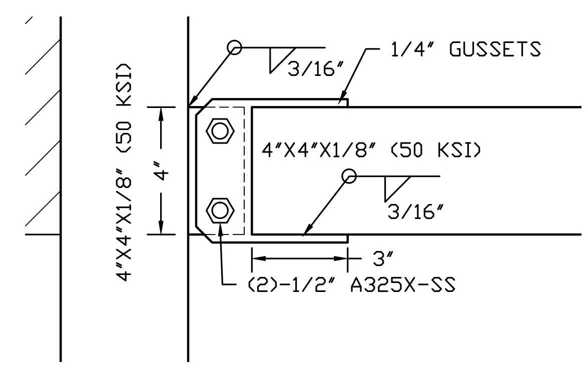
A4 | S2
CONNECTIONS
SCALE: N.T.S.



A5 | S2
CONNECTIONS
SCALE: N.T.S.



A6 | S2
CONNECTIONS
SCALE: N.T.S.



A7 | S2
CONNECTIONS
SCALE: N.T.S.

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**SAMPLE
DRAWING**

**ROOF TOP
STEALTH**

SHEET DESCRIPTION

**STEALTH WALL
PANELS**

SHEET NUMBER

S2

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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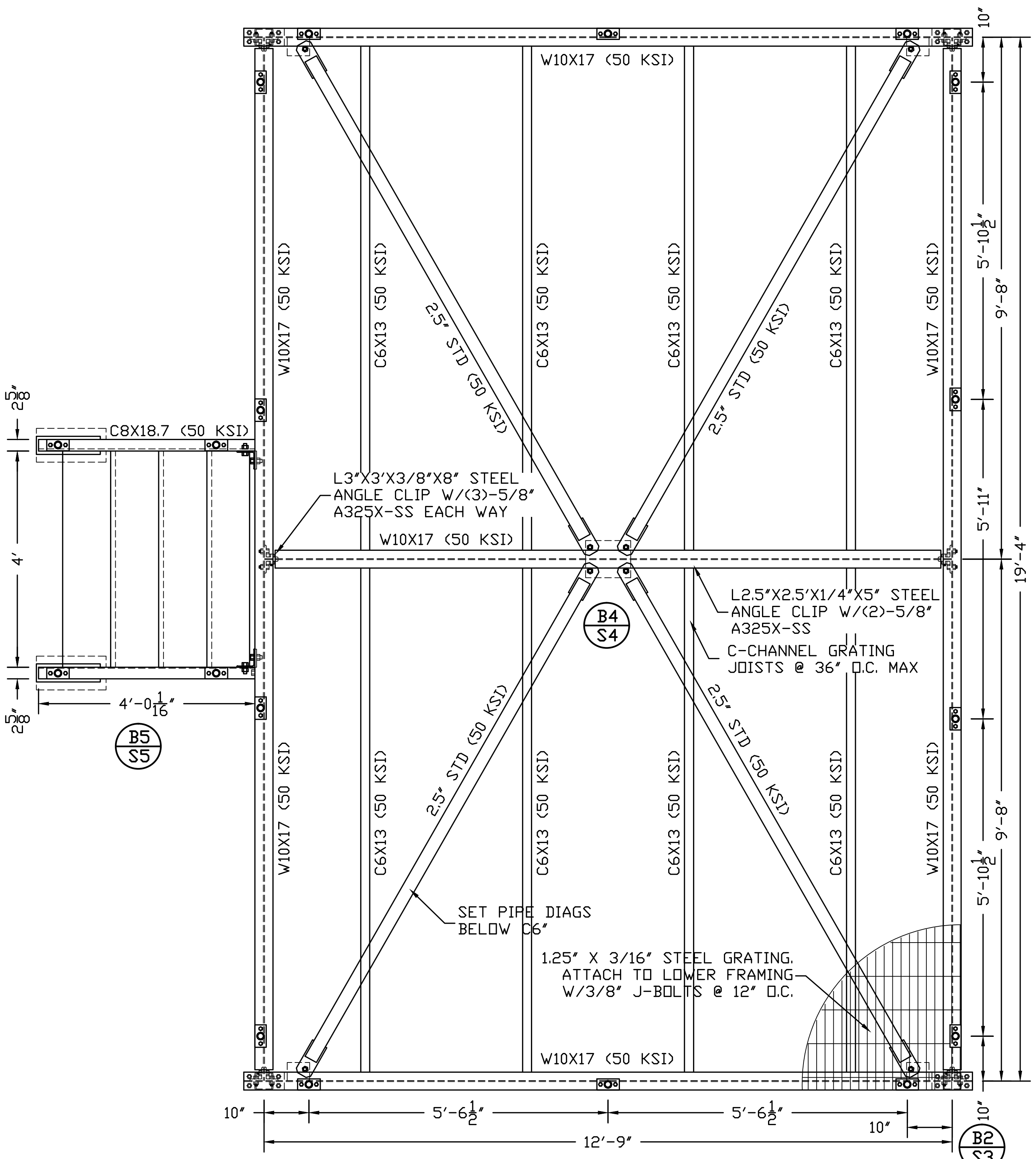
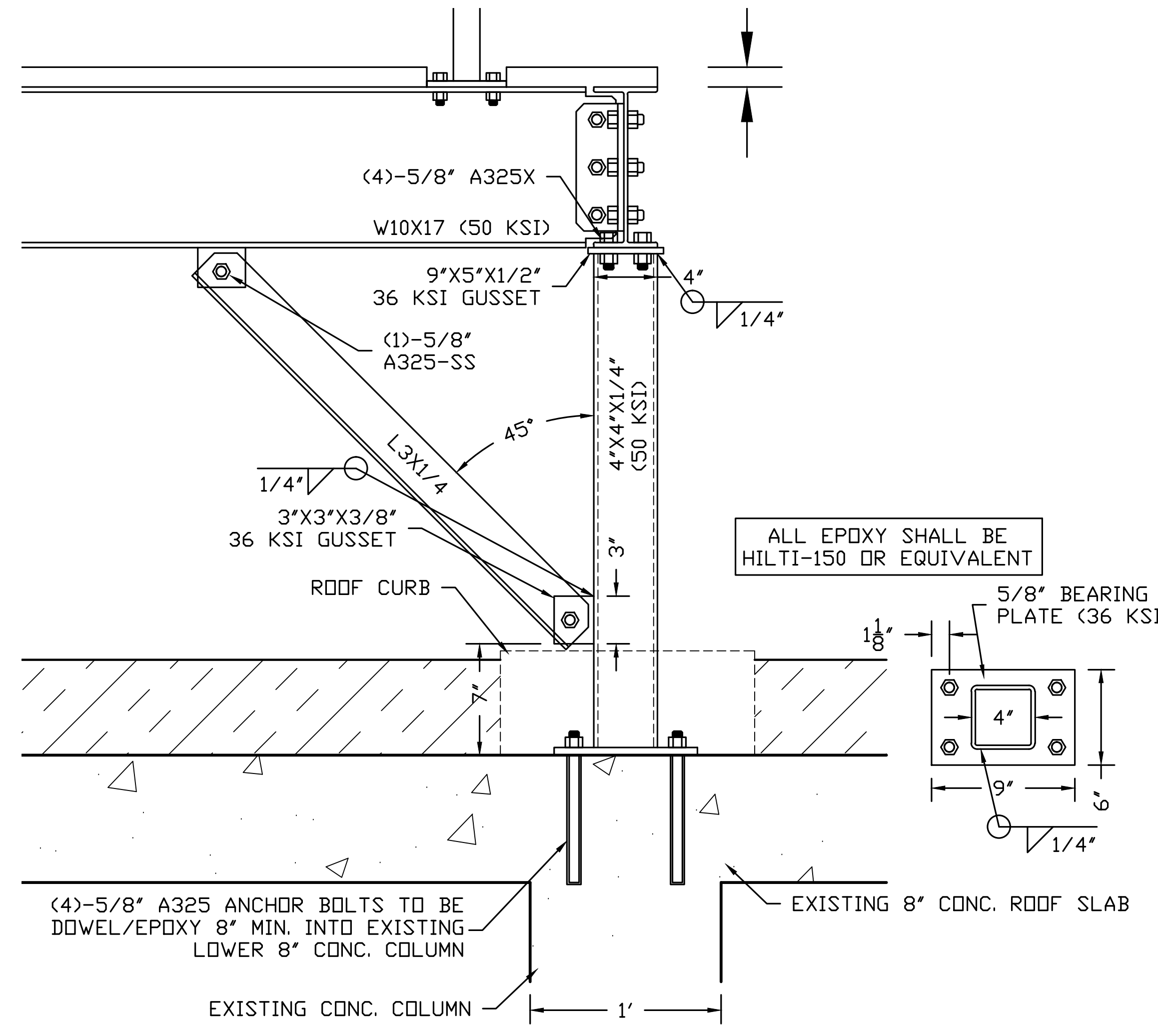
PROJECT NO: 16-???

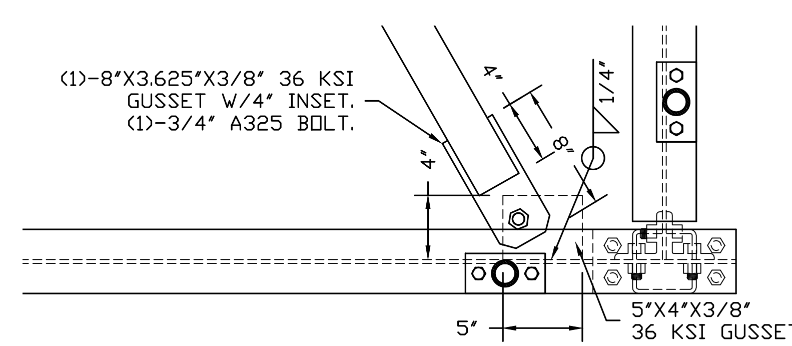
DRAWN BY:	CHECKED BY:
DFA	



B S3 STEEL FRAMING PLAN
SCALE: N.T.S.



B1 S3 CONNECTIONS
SCALE: N.T.S.



B2 S3 CONNECTIONS
SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

EQUIPMENT PLATFORM

SHEET NUMBER

S3

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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PROJECT NO: 16-???

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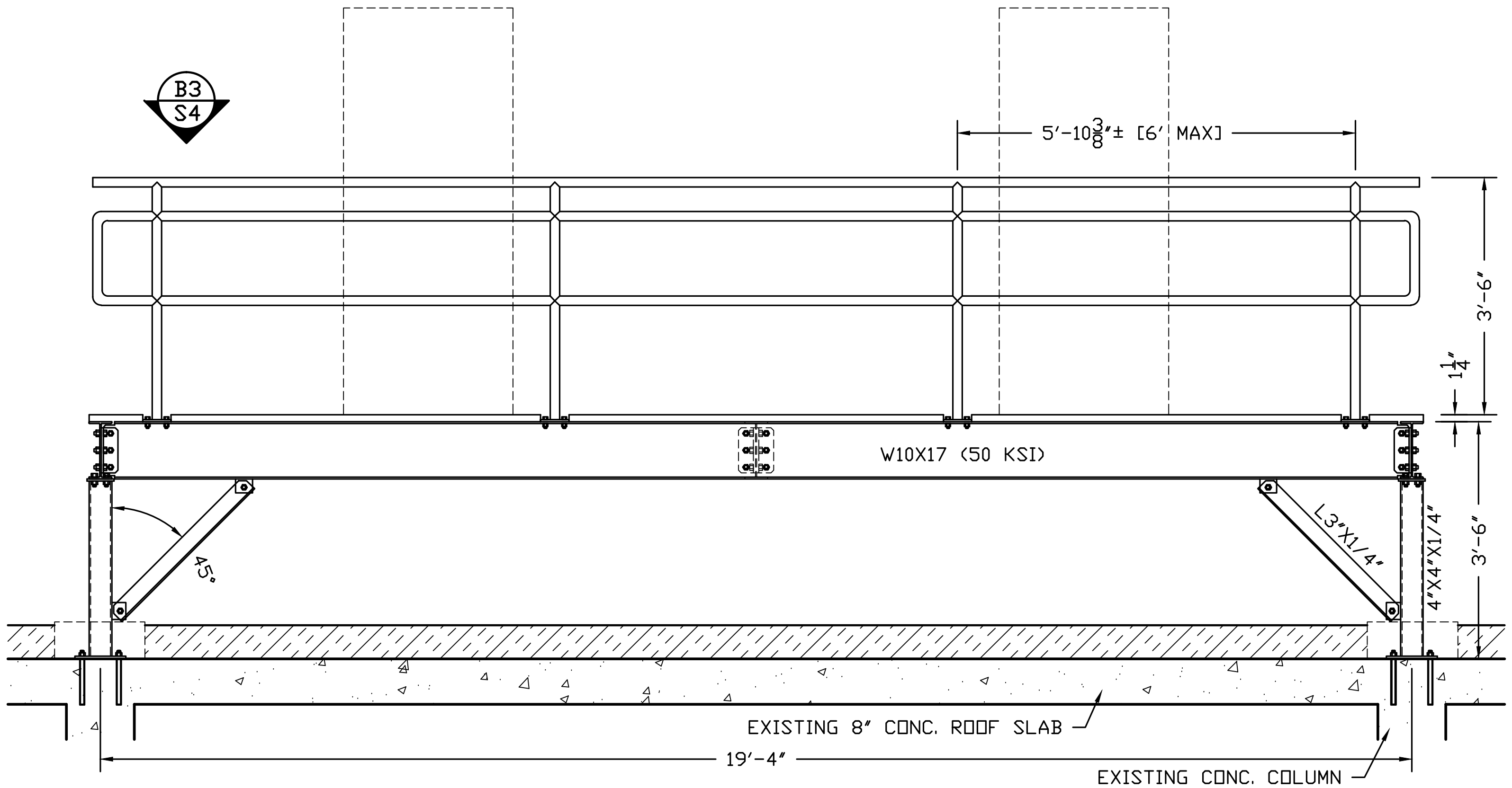
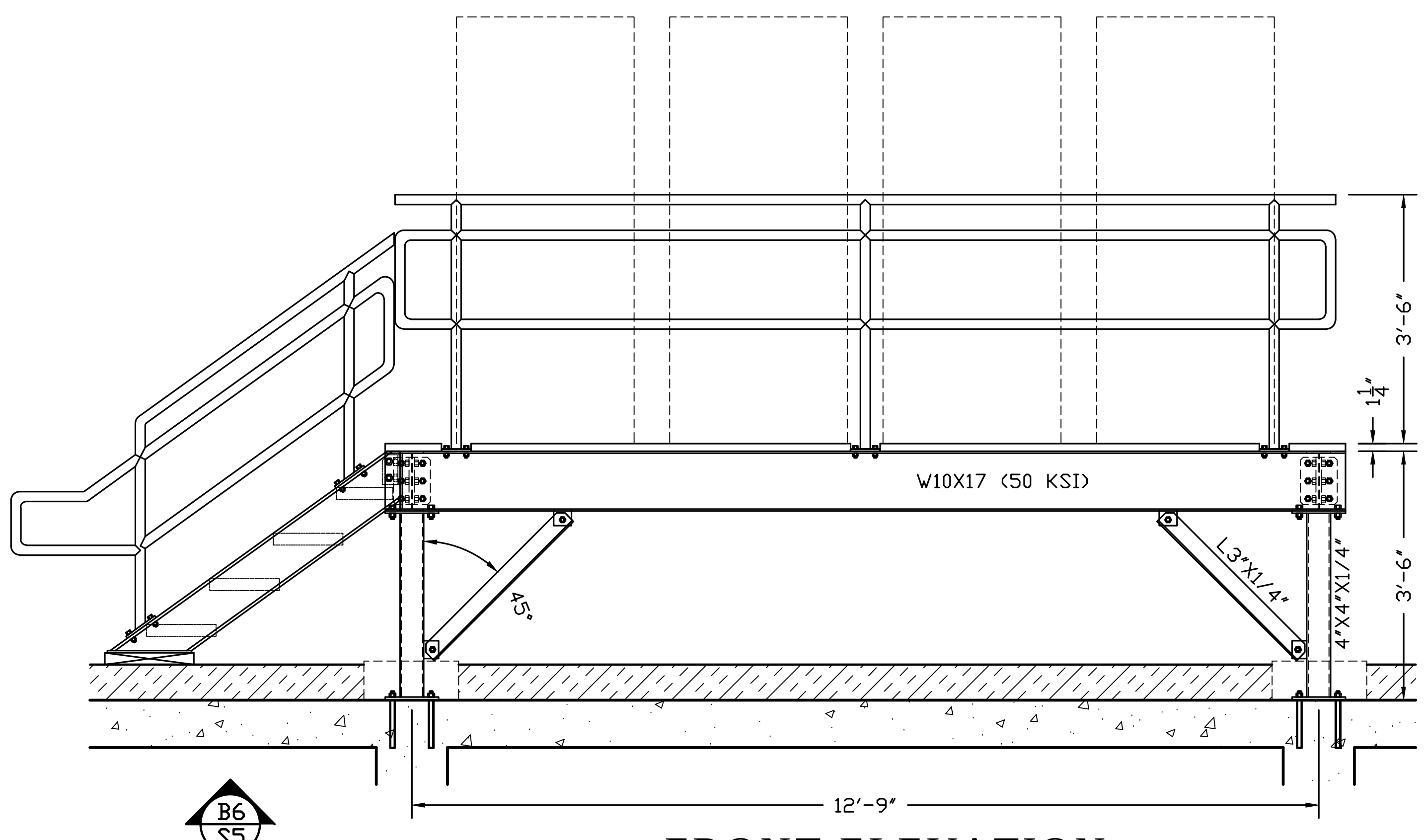


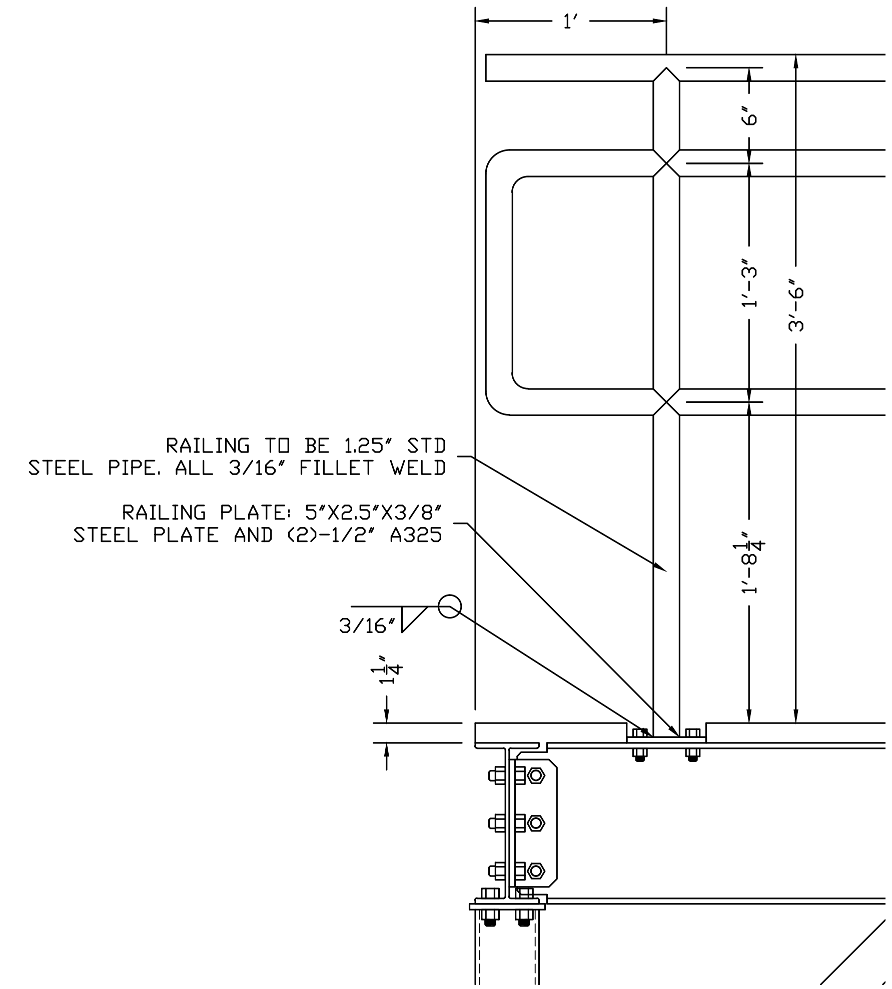
RIGHT ELEVATION

SCALE: N.T.S.



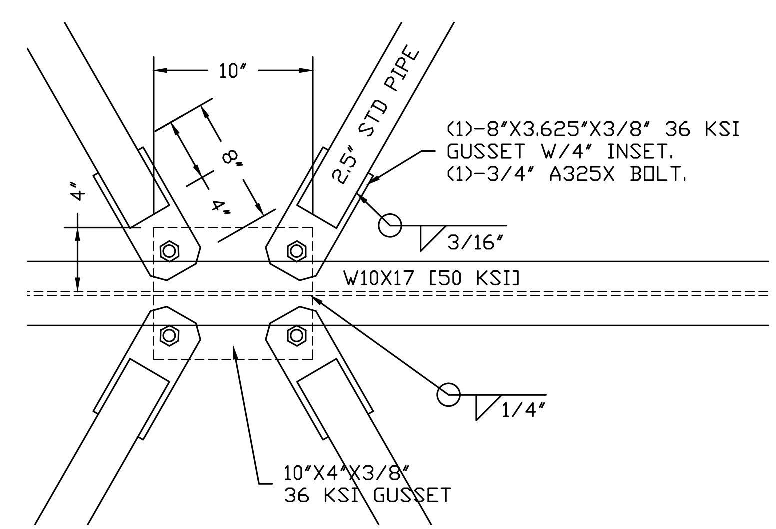
FRONT ELEVATION

SCALE: N.T.S.



B3
S4
CONNECTIONS

SCALE: N.T.S.



B4
S4
CONNECTIONS

SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

EQUIPMENT PLATFORM

SHEET NUMBER

S4

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
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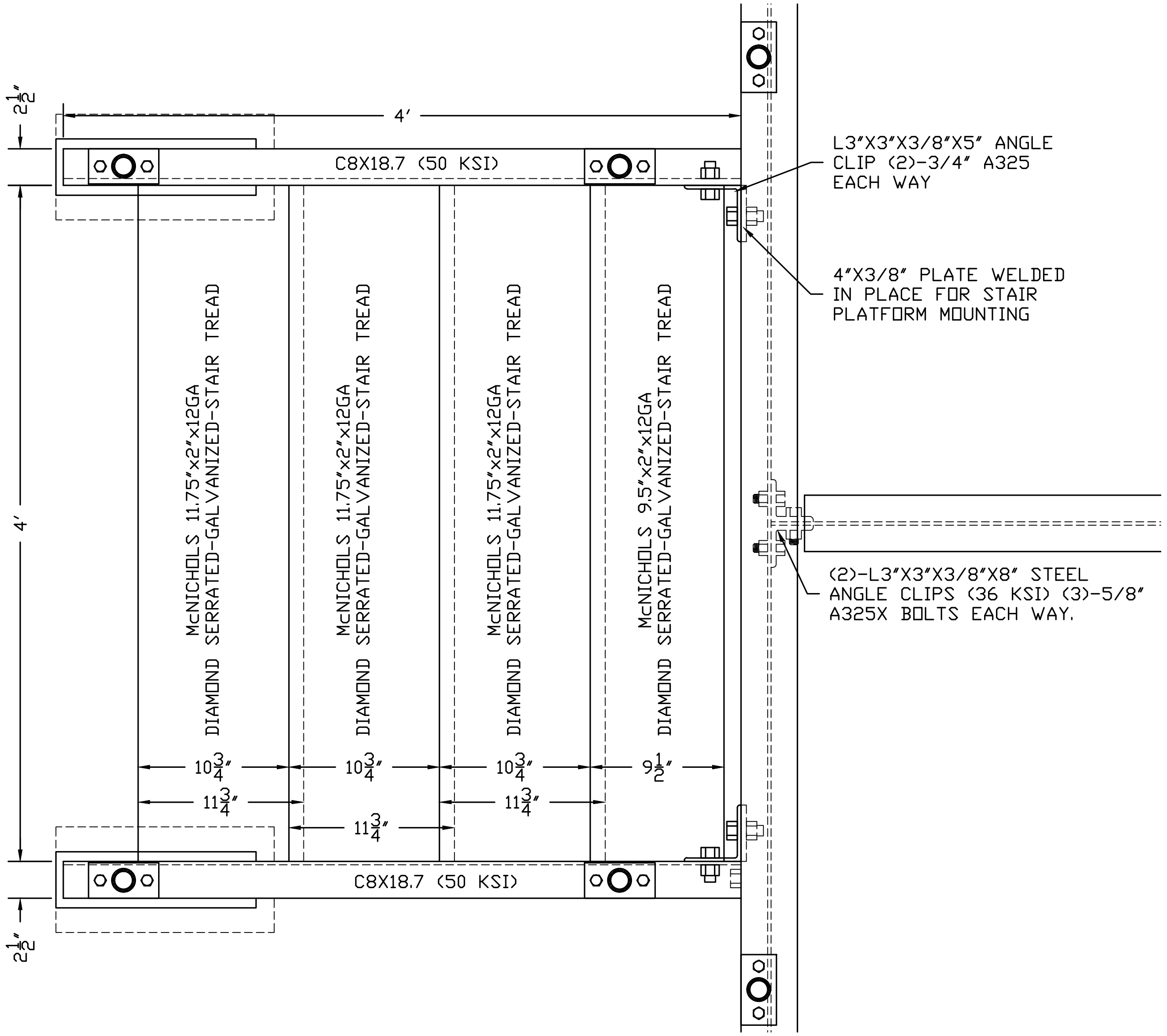
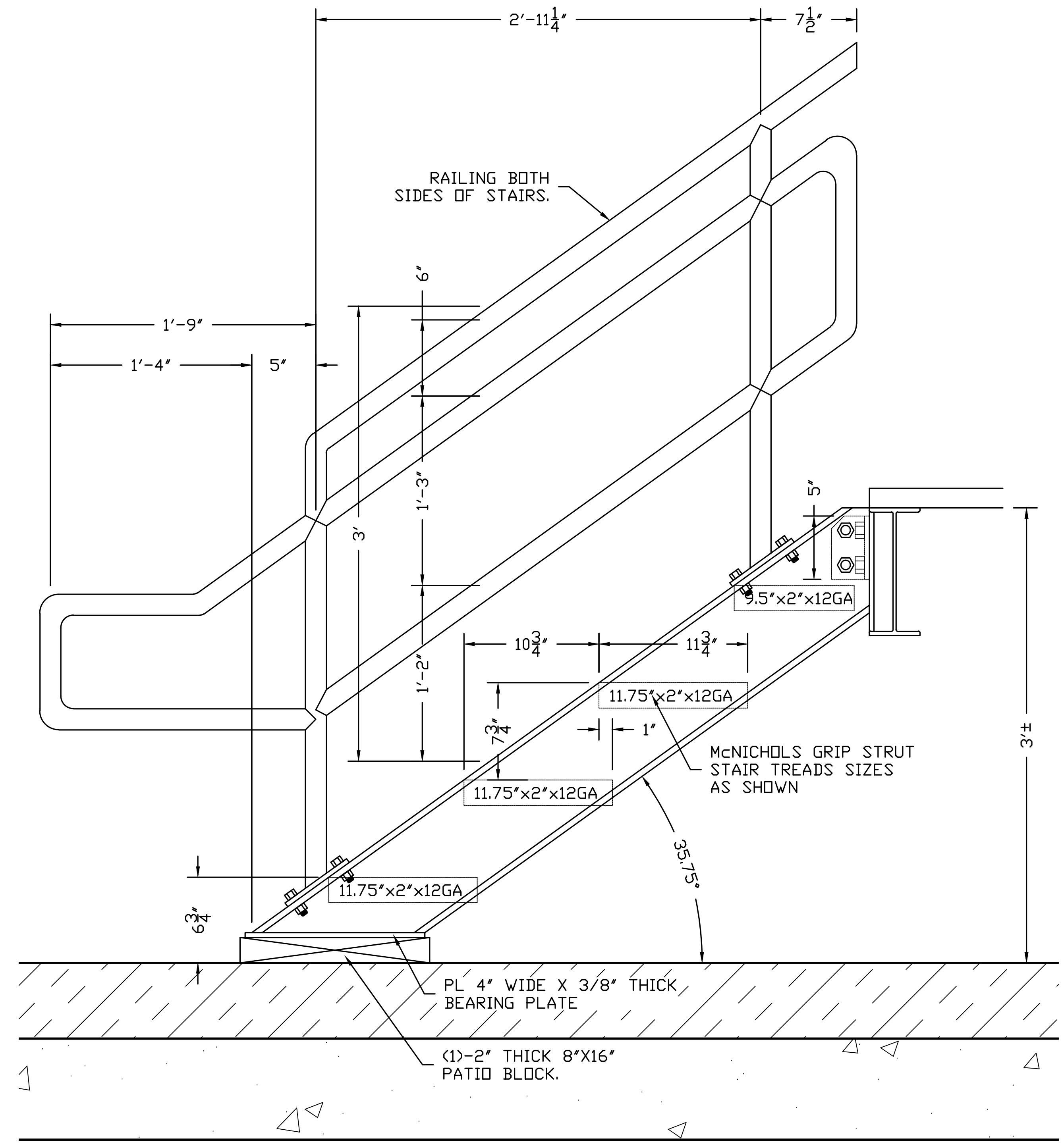


B5 / S5 SHIPS LADDER PLAN

SCALE: N.T.S.



B6 / S5 SHIPS LADDER ELEVATION

SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

EQUIPMENT PLATFORM

SHEET NUMBER

S5

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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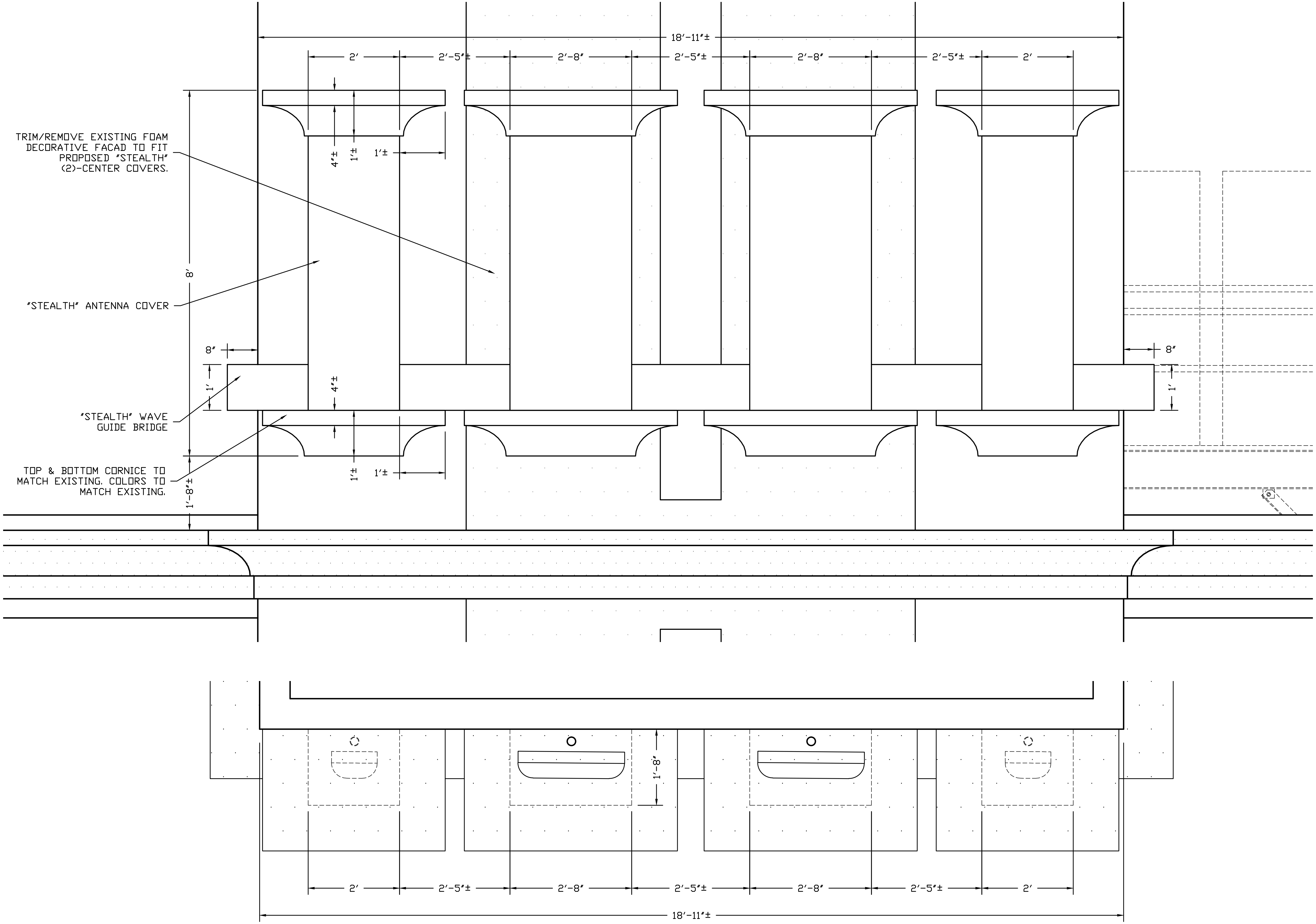
PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	



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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

ALPHA STEALTH COVERS

SHEET NUMBER

S6

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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PROJECT NO: 16-???

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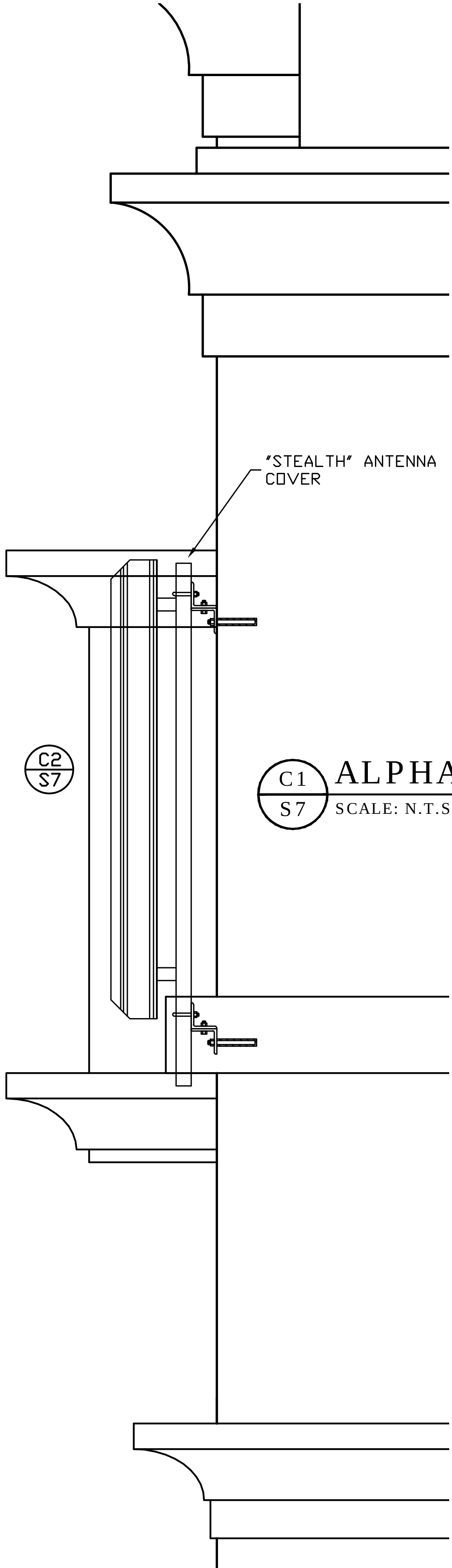
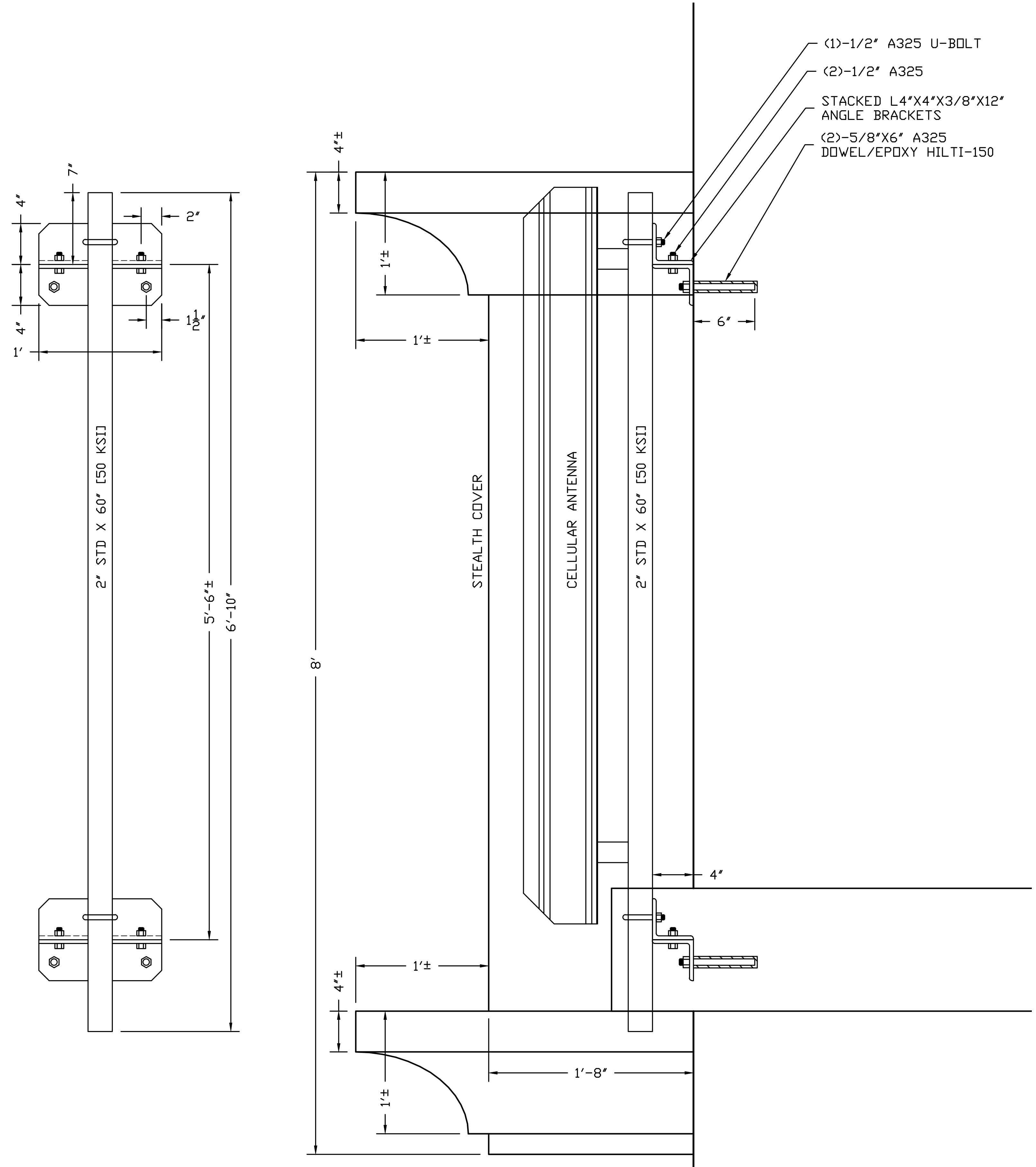
DFA	



C1
S7
ALPHA SIDE VIEW
SCALE: N.T.S.



C2
S7
ALPHA PIPE MOUNT
SCALE: N.T.S.

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SAMPLE DRAWING

ROOF TOP STEALTH

SHEET DESCRIPTION

ALPHA PIPE MOUNT

SHEET NUMBER

S7

REV	DATE	DESCRIPTION
0	12/25/16	SAMPLE DRAWING
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PROJECT NO: 16-???

DRAWN BY:	CHECKED BY:
DFA	