



at&t

FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE

2553 DULLES VIEW DR
HERNDON, VA 20171

 **at&t**
 7150 STANDARD DRIVE
 HANOVER, MD 21076

 **entrex**
 communication services, inc.
 6100 EXECUTIVE BLVD, SUITE 430
 ROCKVILLE, MD 20852
 PHONE: (202) 408-0960

 **smartlink**
 1997 ANNAPOLIS EXCHANGE PKWY
 SUITE 200
 ANNAPOLIS, MD 21401
 PHONE: (410) 582-8043

SITE INFORMATION

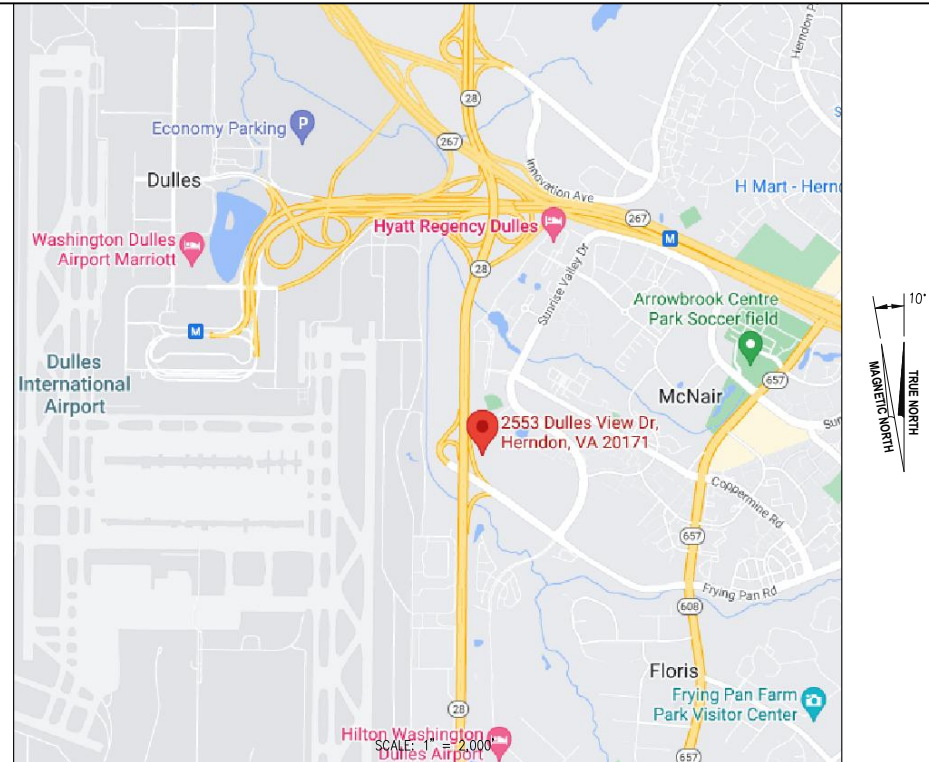
SCOPE OF WORK:

1. INSTALL NEW SCREENED EQUIPMENT AND SECTOR B ANTENNA SUPPORT PLATFORM ON BUILDING ROOF
2. INSTALL TWO SCREENED ANTENNA SUPPORT FRAMES ON BUILDING ROOF FOR SECTORS A & C
3. INSTALL (6) NEW NNHH-65B-R4 (2 PER SECTOR)
4. INSTALL (3) NEW AEQU & (3) NEW AEOK STACKED ANTENNAS (1 EACH PER SECTOR)
5. INSTALL (3) NEW RRH 4T4R B12/14/29 370W AHLBBA (1 PER SECTOR)
6. INSTALL (3) NEW RRH 4T4R B25/66 320W AHFIB (1 PER SECTOR)
7. INSTALL (3) NEW RRH 4T4R B5 160W AHCA (1 PER SECTOR)
8. INSTALL (1) 512 DC POWER CABINET, (2) FLX21-250 CABINET AND (1) GAS GENERATOR ON EQUIPMENT PLATFORM
9. INSTALL (1) FIBER SLACK BOX, (1) DC50 AND GPS ANTENNA ON EQUIPMENT PLATFORM
10. INSTALL NEW TMAS, DIPLEXERS, TRIPLEXERS AND FILTERS
11. INSTALL NEW CABLE BRIDGE AND CABLES TO ANTENNA
12. PROVIDE POWER AND TELCO SERVICE TO NEW EQUIPMENT CABINETS

JURISDICTION: FARIFAX COUNTY
PARCEL: 0154 01 0025A
PARCEL AREA: ± 7.6961 A.C.
PARCEL OWNER: ROSEMONT DULLES VIEW OPERATING LLC
MAILING ADDRESS: 300 GARFIELD ST, SANTE FE, NM 87501
MAP BOOK/PAGE: 23004/0734
ZONING: R2-7 / RA6-15
STRUCTURE TYPE: ROOFTOP
GROUND ELEVATION: 300.7' NAVD
LATITUDE: N 38° 56' 57.208"
LONGITUDE: W 77° 25' 41.812"

NOTE TO GENERAL CONTRACTOR:
 NO WORK IS TO BE PERFORMED ON THIS SITE WITHOUT REVIEW OF THE APPROVED STRUCTURAL ANALYSIS. IF ANY DISCREPANCIES ARE FOUND THE GENERAL CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING. AT NO TIME WILL ANY ADDITIONAL ANTENNAS BE INSTALLED WITHOUT WRITTEN CONSENT FROM TOWER ENGINEER.

VICINITY MAP



SHEET INDEX

- T-1 TITLE SHEET
- N-1 GENERAL NOTES
- C-1 SITE PLAN
- A-1 ROOF AND EQUIPMENT LOCATION PLAN
- A-2 SOUTH BUILDING ELEVATION
- A-3 EAST BUILDING ELEVATION
- A-4 WEST BUILDING ELEVATION
- S-1 ANTENNA SCHEDULE
- S-2 RF PLUMBING DIAGRAMS
- S-3 ANTENNA & RRH DETAILS
- S-4 OVP, JUNCTION BOX & CABLE DETAILS
- S-5 ANTENNA PLATFORM PLANS
- S-6 ANTENNA SUPPORT FRAME DETAILS
- S-7 ANTENNA PLATFORM ELEVATIONS
- S-8 ANTENNA SCREEN WALL DETAILS
- S-9 EQUIPMENT PLATFORM PLANS
- S-10 EQUIPMENT DETAILS
- S-11 PLATFORM WALL ELEVATIONS
- S-12 PLATFORM SCREEN WALL DETAILS
- S-13 STEEL PLATFORM STRUCTURAL DETAILS
- E-1 UTILITY ROUTING PLAN AND SCHEDULES
- E-2 ELECTRICAL DIAGRAM AND DETAILS
- E-3 GROUNDING PLAN, DIAGRAM AND DETAILS

FA NUMBER: 12775856
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2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT TEAM

APPLICANT: AT&T MOBILITY
 7150 STANDARD DRIVE
 HANOVER, MD 21076

ARCHITECT/ENGINEER: ENTREX COMMUNICATION SERVICES, INC.
 6100 EXECUTIVE BLVD, SUITE 430
 ROCKVILLE, MD 20852
 CAMILLE SHABSHAB (202) 408-0960

PROJECT MANAGEMENT: SMARTLINK LLC
 1997 ANNAPOLIS EXCHANGE PARKWAY
 SUITE 200
 ANNAPOLIS, MD 21401
 PHONE: (410) 582-8043

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2018 VIRGINIA UNIFORM STATEWIDE BUILDING CODE
- 2018 INTERNATIONAL BUILDING CODE WITH VA STATE AMENDMENTS
- 2018 INTERNATIONAL EXISTING BUILDING CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 NFPA 101, LIFE SAFETY CODE
- 2014 AMERICAN CONCRETE INSTITUTE AC318
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION AISC360
- MANUAL OF STEEL CONSTRUCTION 15TH EDITION
- ASCE 7
- ANSI/TIA-222-H



APPROVAL BLOCK

	DATE	APPROVED	APPROVED AS NOTED	REVISE & RESUBMIT
OWNER REPRESENTATIVE	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SITE ACQUISITION	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
CONSTRUCTION MANAGER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ZONING	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RF ENGINEER	_____	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
 0 1/2 1
 GRAPHIC SCALE IN INCHES

TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

STRUCUTRAL NOTES

1. THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANCHOR BOLT LOCATIONS, ELEVATIONS OF TOP OF CONCRETE AND BEARING PLATES, ALIGNMENT ETC. PRIOR OF STEEL ERECTION.

2. THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS SHALL GOVERN:
 A. AISC-- "ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
 B. AISC-- "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
 C. AWS-- "D1.1 STRUCTURAL WELDING CODE--STEEL".

3. MATERIAL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS

STRUCTURAL WIDE FLANGE & M SHAPES	A992 OR A572, FY = 50 KSI
OTHER STRUCTURAL SHAPES AND PLATES	A36, F = 36 KSI
STRUCTURAL HSS RECT & SQUARE TUBING	A500, GRADE C, FY = 50 KSI
STRUCTURAL HSS ROUND TUBING	A500, GRADE C, FY = 46 KSI
HIGH STRENGTH BOLTS	A325
THREADED RODS	A354, GRANDE BC
ANCHOR BOLTS	A325 OR A354 BC

4. ALL WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 USING E70XX ELECTRODES. UNLESS OTHERWISE NOTED PROVIDE CONTINUOUS MINIMUM SIZED FILLET WELDS PER AISC REQUIREMENTS.

5. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED. ALL HOLES IN BEARING PLATES SHALL BE DRILLED.

6. ALL STEEL TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123.

7. EPOXY ANCHORS TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

8. ALL BOLTS SHALL BE TIGHTENED USING TURN-OF-THE-NUT METHOD PER AISC SPECIFICATIONS USING STANDARD HOLES.

9. THE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED BY FIELD MEASUREMENT. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIALS OR PROCEEDING WITH CONSTRUCTION.

10. THE GENERAL CONTRACTOR AND HIS SUB CONSULTANTS SHALL BE RESPONSIBLE FOR OBTAINING ALL BUILDING AND OR TRADE PERMITS AND INSPECTIONS THAT MAY BE REQUIRED FOR THE WORK.

11. STRUCTURAL THREADED FASTENERS FOR STEEL ANTENNA MOUNTING ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM A36. STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. STRUCTURAL FASTENERS SHALL BE 5/8" DIAMETER BEARING TYPE CONNECTIONS WITH THE THREADS EXCLUDED FROM THE SHEAR PLANE FOR ANGLES. STRUCTURAL FASTENERS SHALL BE 3/4" DIAMETER BEARING TYPE CONNECTIONS WITH THE THREADS EXCLUDED FROM THE SHEAR PLANE FOR ALL OTHER STRUCTURAL SHAPES. ALL EXPOSED STRUCTURAL FASTENERS, NUTS AND WASHERS SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED.

12. EXPANSION ANCHORS INSTALLED IN CONCRETE SHALL BE HILTI STAINLESS STEEL ANCHORS AS SPECIFIED ON THE PLANS. THE EXPANSIONS ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS DIRECTIONS.

13. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL SHALL VERIFY NORTH AND INFORM ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.

14. ROOF PROTECTION PADS UNDER THE CABLE BRIDGE SLEEPERS AND ROOF PAVERS SHALL BE 0.30" THICK RUBBER FIRESTONE PROTECTION PADS. THE ROOF PROTECTION PADS SHALL EXTEND A MINIMUM OF 2" BEYOND THE PERIMETER OF THE OF THE SLEEPERS. PROVIDE A 28 LB FELT SEPARATOR SHEET 2" LARGER THAN THE ROOF PROTECTION PAD DIRECTLY ON THE ROOF. REMOVE ALL LOOSE STONES PRIOR TO PLACING THE SEPARATOR SHEET. ROOF PROTECTION PADS SHALL NOT BE PLACED WITH IN 6" OF AN ADJACENT PAD OR OTHER ROOF OBSTRUCTION TO FACILITATE DRAINAGE.

15. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING OWNER'S ROOF CONTRACTOR WHO WILL COMPLETE ALL WORK ASSOCIATED WITH THE ROOF. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE BUILDING OWNER'S ROOF CONTRACTOR BEFORE INSTALLATION OF ANY ROOF MOUNTED EQUIPMENT.

16. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301, AND SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 4,500 psi (U.O.N). CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL, UNLESS OTHERWISE NOTED. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.

17. CONCRETE SHALL BE 6% AIR ENTRAINED.

18. ALL REINFORCING STEEL SHALL CONFORM TO ASTM 615 GRADE 60. DEFORMED BILLET STEEL BARS. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

19. FENCED AREA SHALL BE CLEARED AND GRUBBED. REMOVE UNSUITABLE LOOSE OR SOFT SOIL, ORGANIC MATERIAL OR RUBBLE, TO FIRM SUBGRADE. FILL UNDER CUT AND COMPACT UP TO 6" BELOW FINISH GRADE. PLACE A MIRAFI 500X SOIL STABILIZATION FABRIC ON SUBGRADE. FILL WITH 6" OF AASHTO 57 STONE TO FINISH GRADE.

20. WHERE FILL IS REQUIRED, FILL IN LAYERS WHICH DO NOT EXCEED 8" BEFORE COMPACTION. SPREAD LAYER UNIFORMLY AND EVENLY. BLADE MIX EACH LAYER TO ENSURE MATERIAL UNIFORMITY. FILL MATERIAL SHALL NOT CONTAIN MATERIAL MORE THAN 3" IN DIAMETER. COMPACT EACH LAYER NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557 MODIFIED PROCTOR TEST OR (ASTM D698 STANDARD PROCTOR TEST). USE FILL MATERIAL WITH MOISTURE CONTENT AS REQUIRED TO ATTAIN THE SPECIFIED DEGREE OF COMPACTION. COMPACT USING MULTIPLE WHEEL PNEUMATIC TIRE ROLLED, VIBRATORY ROLLER, OR SHEEPS FOOT ROLLERS.

21. PRESUMPTIVE SOIL BEARING CAPACITY = 1,500 PSF.

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.

3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.

5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

7. CONTRACTOR SHALL VERIFY ANTENNA ELEVATION AND AZIMUTH WITH RF ENGINEERING PRIOR TO INSTALLATION.

8. TRANSMITTER EQUIPMENT AND ANTENNAS ARE DESIGNED TO MEET ANSI/EIA/TIA 222-G REQUIREMENTS.

9. ALL STRUCTURAL ELEMENTS SHALL BE HOT DIPPED GALVANIZED STEEL.

10. CONTRACTOR SHALL MAKE A UTILITY "ONE CALL" TO LOCATE ALL UTILITIES PRIOR TO EXCAVATING.

11. IF ANY UNDERGROUND UTILITIES OR STRUCTURES EXIST BENEATH THE PROJECT AREA, CONTRACTOR MUST LOCATE IT AND CONTACT THE APPLICANT & THE OWNER'S REPRESENTATIVE.

12. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION BY TECHNICIANS APPROXIMATELY 2 TIMES PER MONTH.

13. PROPERTY LINE INFORMATION WAS PREPARED USING DEEDS, TAX MAPS, AND PLANS OF RECORD AND SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.

14. THIS PLAN IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.

15. THE PROPOSED FACILITY WILL CAUSE ONLY A "DE MINIMIS" INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.

16. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.

17. THE FACILITY IS UNMANNED AND NOT INTENDED FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).

18. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.

19. POWER TO THE FACILITY WILL BE MONITORED BY A SEPARATE METER UNLESS OTHERWISE NOTED IN THIS DRAWING SET.

20. ALL ANTENNA SCREENING SHALL BE FINISHED OR PAINTED TO MATCH THE STRUCTURE AS DIRECTED BY THE FACILITIES MANAGEMENT DIVISION.

GROUNDING NOTES

1. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.

2. ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.

3. ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE.

4. GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTES OTHERWISE. CLEAN SURFACES TO SHINY METAL, WHERE GROUND WIRES ARE CADWELDED TO GALVANIZED SURFACE, SPRAY CADWELD WITH GALVANIZING PAINT.

5. GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.

6. GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S GROUNDING KITS.

7. ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.

8. INSTALL 2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND 2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.

9. REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTION TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.

10. THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCRUING TO GROUNDING PLAN. THE GROUND RODS SHALL BE 5/8"x8'-0" COPPER CLAD STEEL INTERCONNECTED WITH 2 BARE TINNED COPPER WIRE BURIED 30" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART TO ACHIEVE CONE OF PROTECTION.

11. IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45'.

12. EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-A1.

13. CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE AT&T CONSTRUCTION MANAGER.

14. GROUND RING & CONNECTIONS TO IT SHALL BE 2 AWG SOLID BARE TINNED COPPER WIRE. EQUIPMENT GROUND CONNECTIONS TO MGB SHALL BE 2 AWG STRANDED TO WIRE.

15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL.

16. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A AT&T REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.

17. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.

18. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTIONS, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.

19. WHERE METALLIC ENCLOSURES AND OBJECTS ARE LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST.

20. TOWER BASE GROUND BAR REQUIRES (2) SOLID LEADS EXOTHERMICALLY WELDED TO THE GROUND BAR.

21. OUTDOOR SITES: MAIN GROUND BAR REQUIRES (2) SOLID LEADS EXOTHERMICALLY WELDED TO IT AND TO THE GROUND RING.

22. INDOOR/ROOFTOP SITES: MAIN GROUND BAR SHALL BE BONDED TO BUILDING PRINCIPAL GROUND AS SHOWN ON PLAN.

23. ALL SOLID LEADS TERMINATED TO GROUND BARS SHALL BE PROTECTED WITH CARFLEX.

24. ALL SOLID GROUND LEADS NOT BEING USED SHALL BE COILED (PIGTAILS) FOR FUTURE USE AS NEEDED.

25. DO NOT ROUTE GROUNDING CONDUCTORS THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR. CLIPS AND FASTENERS USED TO SECURE ANY GROUND WIRE SHALL BE NON-METALLIC TO PREVENT "CHOKE EFFECT."

ELECTRICAL ABBREVIATIONS

A	AMPERE	MCB	MAIN CIRCUIT BREAKER
AIC	ASYMMETRICAL INTERRUPT CURRENT	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	NEC	NATIONAL ELECTRICAL CODE
C	CONDUIT	NTS	NOT TO SCALE
CSC	CELL SITE CABINET	NFSS	NON-FUSIBLE SAFETY SWITCH
FSS	FUSIBLE SAFETY SWITCH	PVC	POLYVINYL CHLORIDE
GFI	GROUND FAULT INTERRUPTING	P	POLE
G	GROUND	ø	PHASE
kVA	KILOVOLT-AMPERE	RMC	RIGID METAL CONDUIT
KW	KILOWATT	V	VOLT
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	W	WIRE
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT		

ELECTRICAL NOTES

1. SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.

2. CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.

3. VERIFY HEIGHT WITH PROJECT MANAGER PRIOR TO INSTALLATION.

4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.

5. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER SCHEDULING AND PROVISIONALLY CIRCUMSTANCES SURROUNDING THE PROJECT.

6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.

7. ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL BE APPROVED FOR THEIR INTENDED USE AND LOCATION.

8. ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.

9. ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.

10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.

11. LOCATE ALL PENETRATIONS SUCH THAT ALL REINFORCEMENT CONTAINED WITHIN THE EXISTING BUILDING CONSTRUCTION REMAINS INTACT AND UNDISTURBED. SUBMIT LOCATING METHOD TO PROJECT MANAGER FOR APPROVAL PRIOR TO EXECUTION.

12. DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.

13. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE 12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED IN ACCORDANCE WITH NEC 110-14(C).

14. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.

15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.

16. CONDUIT: ALL ABOVE GRADE CONDUITS SHALL BE RIGID & LFMC TO 6' AS STATED BELOW

A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

B. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

C. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.

D. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTALLING.

E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.

F. THE TOTAL RADII OF BENDS IN A CONDUIT SHALL NOT EXCEED 360'.

17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PHENOLIC PLASTIC NAMEPLATES. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.

18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO AT&T PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE AT&T PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.

19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.

20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.

21. VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK. MAINTAIN POWER TO ALL OTHER AREAS AND CIRCUITS NOT SCHEDULED FOR REMOVAL.

22. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE AT&T CONSTRUCTION MANAGER.



7150 STANDARD DRIVE
HANOVER, MD 21076



6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
PHONE: (202) 408-0960



1997 ANNAPOLIS EXCHANGE PKWY
SUITE 200
ANNAPOLIS, MD 21401
PHONE: (410) 582-8043

FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492

DESIGNER: W.A.

ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"

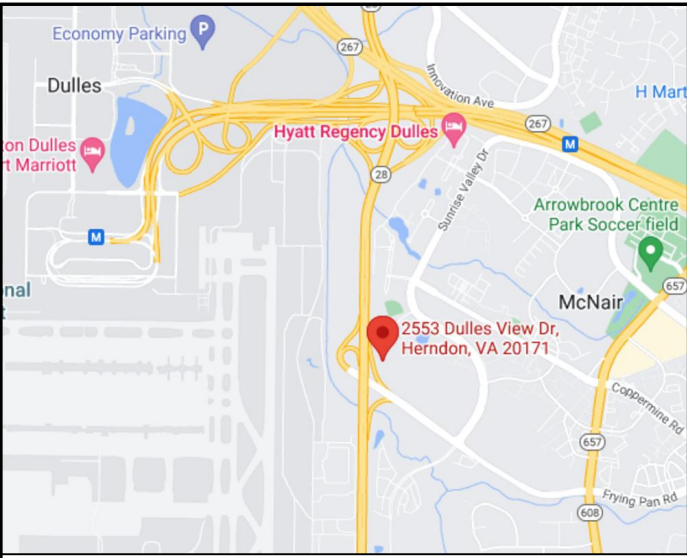
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GRAPHIC SCALE IN INCHES

TITLE:

GENERAL NOTES

SHEET NUMBER:

N-1



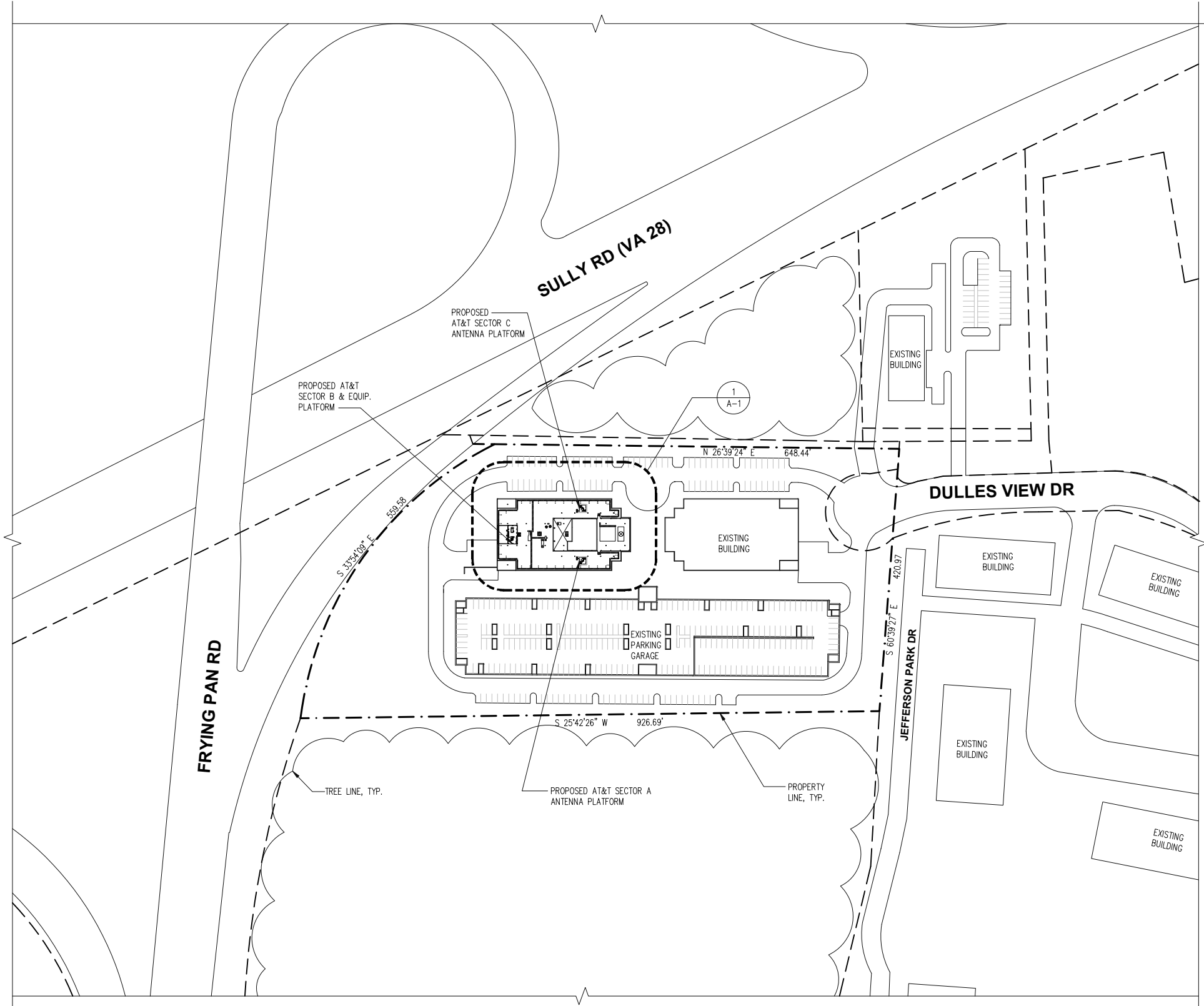
VICINITY MAP
SCALE: 1"=2000'

SITE NOTES

JURISDICTION: FARIFAX COUNTY
 PARCEL: 0154 01 0025A
 PARCEL AREA: ± 7.6961 A.C.
 PARCEL OWNER: ROSEMONT DULLES VIEW OPERATING LLC
 MAILING ADDRESS: 300 GARFIELD ST, SANTE FE, NM 87501
 MAP BOOK/PAGE: 23004/0734
 ZONING: R2-7 / RA6-15
 STRUCTURE TYPE: ROOFTOP
 GROUND ELEVATION: 300.7' NAVD
 LATITUDE: N 38° 56' 57.208"
 LONGITUDE: W 77° 25' 41.812"

LINE TYPES

- BOUNDARY LINE - PARENT PARCEL
- UNSURVEYED LINE - BOUNDARY OF ADJOINERS
- CENTER LINE
- CONSERVATION EASEMENT
- BUILDING SET BACK
- EDGE OF ASPHALT
- OVERHEAD UTILITY LINE
- 1' CONTOUR LINE
- 5' CONTOUR LINE
- TREE OR VEGETATION LINE
- FENCE LINE-CHAIN



SITE PLAN
SCALE: 1/8" = 1'-0"

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FA NUMBER: 12775856
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SEAL:

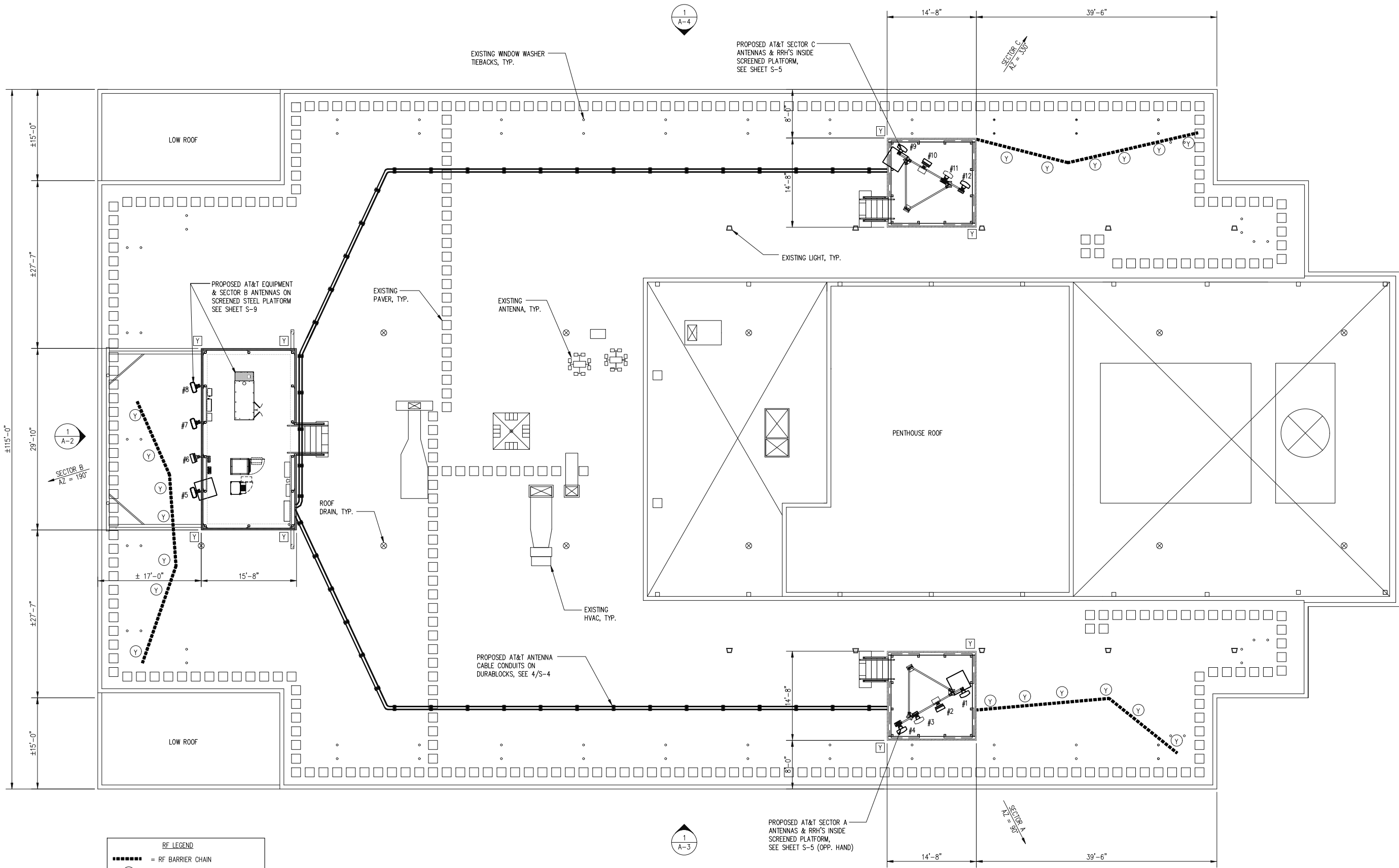
SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492
 DESIGNER: A.H.
 ENGINEER: C.S.
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 0 1/2 1
 GRAPHIC SCALE IN INCHES

TITLE:
SITE PLAN

SHEET NUMBER:
C-1



RF LEGEND

- = RF BARRIER CHAIN
- ⊙ = YELLOW RF CAUTION 2 SIGN
- ⊞ = YELLOW RF CAUTION 2 SIGN

NOTE:
RF SIGNS ARE NOT REQUIRED PER THE CENTERLINE SITE COMPLIANCE REPORT DATED 11/09/2022.

ROOF & EQUIPMENT LOCATION PLAN
SCALE: 1/8"=1'-0"

NOTES:

1. ROOF CONSTRUCTION: BALLASTED ROOFING MEMBRANE ON POST-TENSIONED CONCRETE SLAB, BEAMS AND COLUMNS
2. ELEVATIONS ARE IN REFERENCE TO THE ENTRANCE LEVEL WHICH IS TAKEN AS REFERENCE ELEV. 0.0'
3. SEE SHEETS E-1 THRU E-3 FOR UTILITY AND GROUNDING DETAILS
4. SEE NOTES ON SHEET N-1 FOR INFO NOT NOTED.

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SEAL:

SUBMITTALS

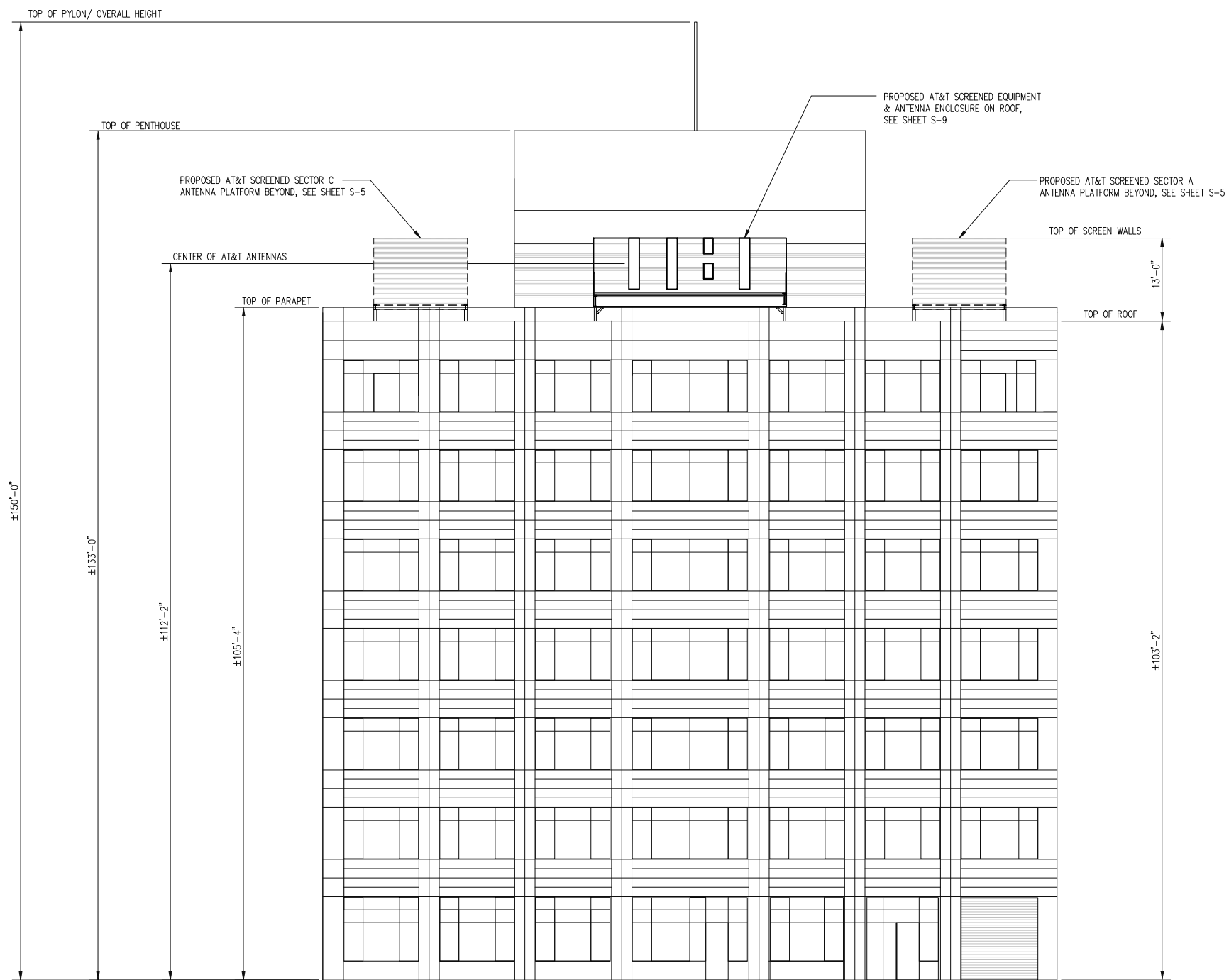
DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.

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0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:
ROOF & EQUIPMENT LOCATION PLAN

SHEET NUMBER:
A-1



SOUTH BUILDING ELEVATION
SCALE: 3/32"=1'-0"

1
A-2



FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

SUBMITTALS		
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TITLE:
SOUTH BUILDING ELEVATION

SHEET NUMBER:
A-2



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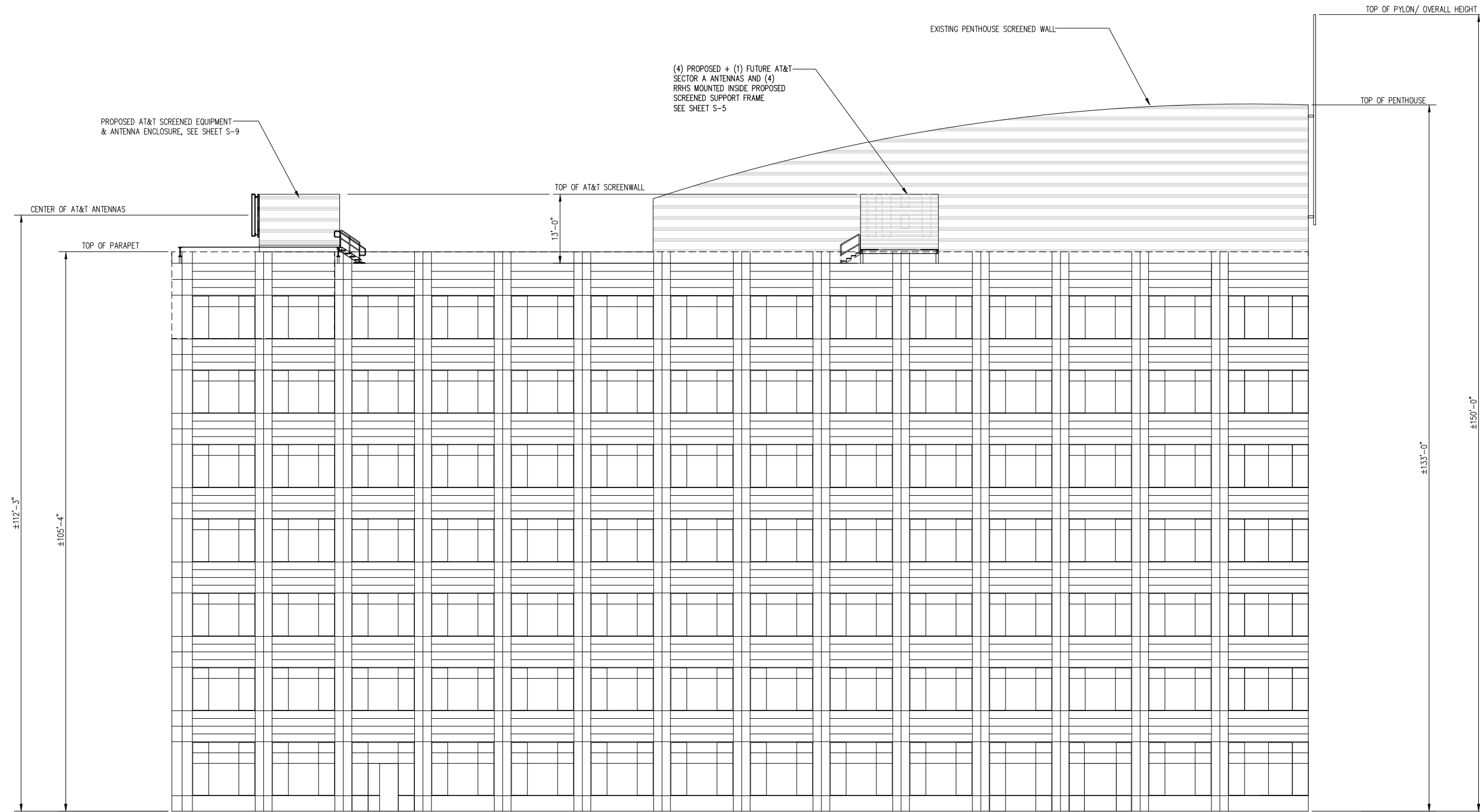
THESE DRAWINGS ARE FORMATTED
TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:

**EAST BUILDING
ELEVATION**

SHEET NUMBER:

A-3



EAST BUILDING ELEVATION
SCALE: 3/32"=1'-0"

1
A-3



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2553 DULLES VIEW DR
HERNDON, VA 20171

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PROJECT NO: 1152.492
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ENGINEER: C.S.

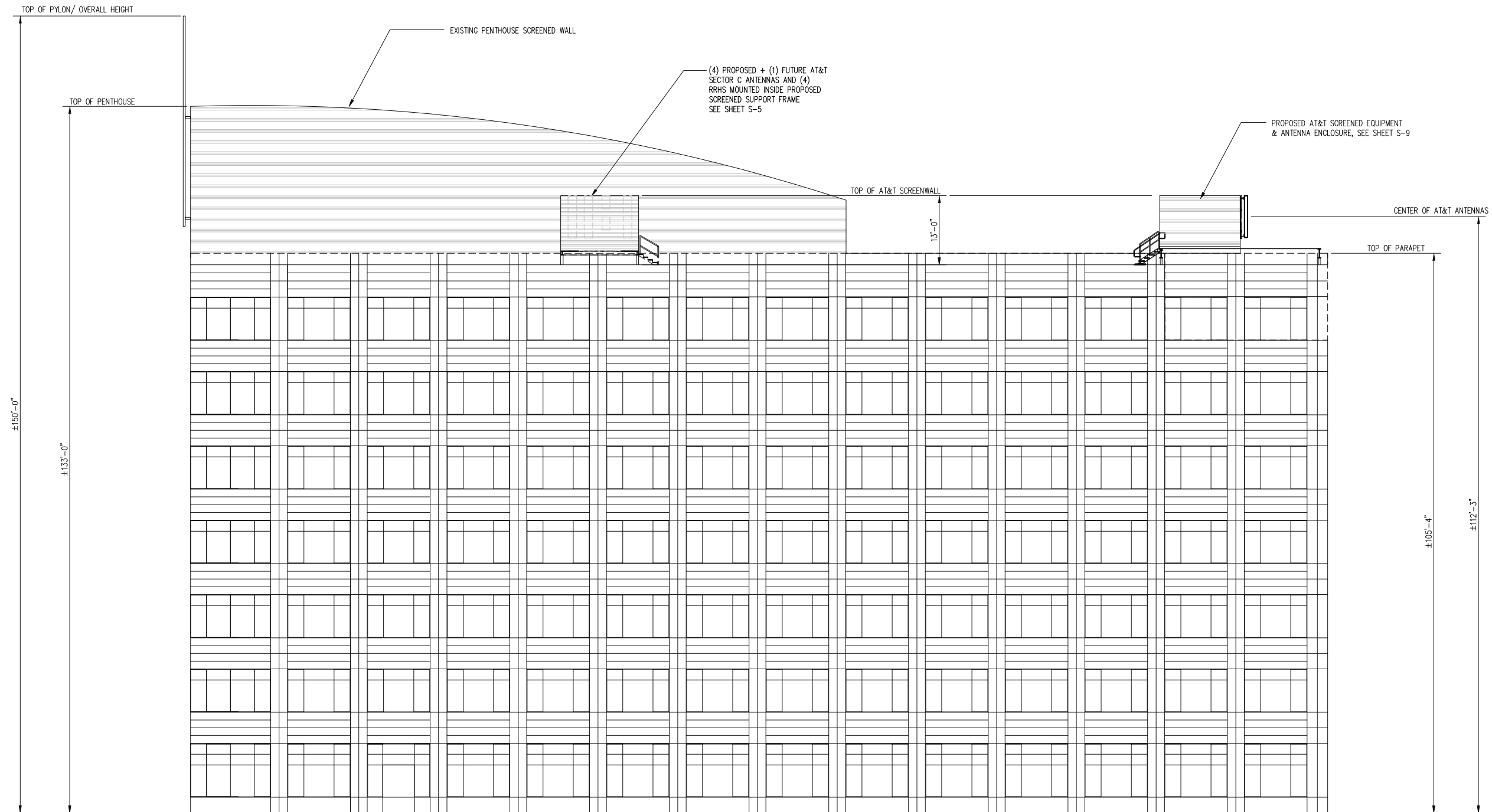
THESE DRAWINGS ARE FORMATTED
TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:

**WEST BUILDING
ELEVATION**

SHEET NUMBER:

A-4



WEST BUILDING ELEVATION

SCALE: 3/32"=1'-0"

1
A-4

CABLE SCHEDULE AND RF SYSTEM DESIGN PLAN

SECTOR	ANTENNA POSITION	ANTENNA STATUS	TECHNOLOGY/ FREQUENCY	MAKE	MODEL	RAD CTR. FT. AGL	AZIMUTH	RRH/TMA QUANTITY AND MODEL	TRANSMISSION CABLE			
									LENGTH	STATUS	QUANTITY	TYPE
A	#1	PROPOSED	LTE 1900	COMMSCOPE	NNHH-65C-R4	112'-2"	90°	(1) PROPOSED AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	±120'	PROPOSED / SHARED	1	0.4" FIBER BUNDLE
			LTE AWS									
	LTE AWS											
	5G 1900											
#2	PROPOSED	5G CBAND	NOKIA	AEQU STACKED TOP POSITION	114'-11"	90°	(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQU	3	0.92" DC POWER BUNDLES			
				AEQK STACKED BOTTOM POSITION	110'-11"		(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQK					
#3	FUTURE											
#4	PROPOSED	5G 850	COMMSCOPE	NNHH-65C-R4	112'-2"	90°	(1) PROPOSED AIRSCALE RRH 4T4R B5 160W AHCA					
							(1) FUTURE AIRSCALE RRH 4T4R B30 100W AHNA					
B	#5	PROPOSED	LTE 1900	COMMSCOPE	NNHH-65C-R4	112'-2"	190°	(1) PROPOSED AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	±30'	PROPOSED / SHARED	1	0.4" FIBER BUNDLE
			LTE AWS									
	LTE AWS											
	5G 1900											
#6	PROPOSED	5G CBAND	NOKIA	AEQU STACKED TOP POSITION	114'-11"	190°	(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQU	3	0.92" DC POWER BUNDLES			
				AEQK STACKED BOTTOM POSITION	110'-11"		(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQK					
#7	FUTURE											
#8	PROPOSED	5G 850	COMMSCOPE	NNHH-65C-R4	112'-2"	190°	(1) PROPOSED AIRSCALE RRH 4T4R B5 160W AHCA					
							(1) FUTURE AIRSCALE RRH 4T4R B30 100W AHNA					
C	#9	PROPOSED	LTE 1900	COMMSCOPE	NNHH-65C-R4	112'-2"	330°	(1) PROPOSED AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	±140'	PROPOSED / SHARED	1	0.4" FIBER BUNDLE
			LTE AWS									
	LTE AWS											
	5G 1900											
#10	PROPOSED	5G CBAND	NOKIA	AEQU STACKED TOP POSITION	114'-11"	330°	(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQU	3	0.92" DC POWER BUNDLES			
				AEQK STACKED BOTTOM POSITION	110'-11"		(1) PROPOSED INTEGRATED WITHIN: AIRSCALE MAA 64T64R 192E AEQK					
#11	FUTURE											
#12	PROPOSED	5G 850	COMMSCOPE	NNHH-65C-R4	112'-2"	330°	(1) PROPOSED AIRSCALE RRH 4T4R B5 160W AHCA					
							(1) FUTURE AIRSCALE RRH 4T4R B30 100W AHNA					

GPS: (1) PROPOSED

TOTAL # OF ANTENNAS: 12	PROPOSED RRH'S*
(6) COMMSCOPE NNHH-65C-R4 (2 PER SECTOR)	(3) AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA (1 PER SECTOR)
(3) NOKIA AEQK (1 PER SECTOR)	(3) AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB, (1 PER SECTOR)
(3) NOKIA AEQU (1 PER SECTOR)	(3) AIRSCALE RRH 4T4R B5 160W AHCA, (1 PER SECTOR)

NEW EQUIPMENT: YES EQUIPMENT SHELTER SIZE: N/A

- NOTES:**
- SUBCONTRACTOR SHALL COORDINATE COLOR CODING WITH THE MASTER COLOR CODE DOCUMENT.
 - INSTALL SURGE ARRESTORS ON NEW MAIN COAXIAL CABLES. GROUND TO NEAREST GROUND BAR.
 - SUB CONTRACTOR SHALL INSTALL A BRASS IDENTIFICATION TAG (1 1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS. ONE AT THE ANTENNA PORT CONNECTION NEAR THE END OF THE JUMPER AND ONE ON EACH END OF THE JUMPER SERVING THE RADIO EQUIPMENT. EACH TAG WILL BE STAMPED WITH "ATT" AND THE ANTENNA PORT IDENTIFICATION NUMBER. TAGS SHALL BE ATTACHED WITH CORROSION PROOF UV RESISTANT WIRE OR CABLE-TY.

RF DESIGN NOTE:
This Antenna and Coax Cable schedule has been created using the RFDS dated 11/21/22 Revision 1.00. All antenna design, zoning, structural analysis, permits and compliance submissions are coordinated with the fore mentioned document.



FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

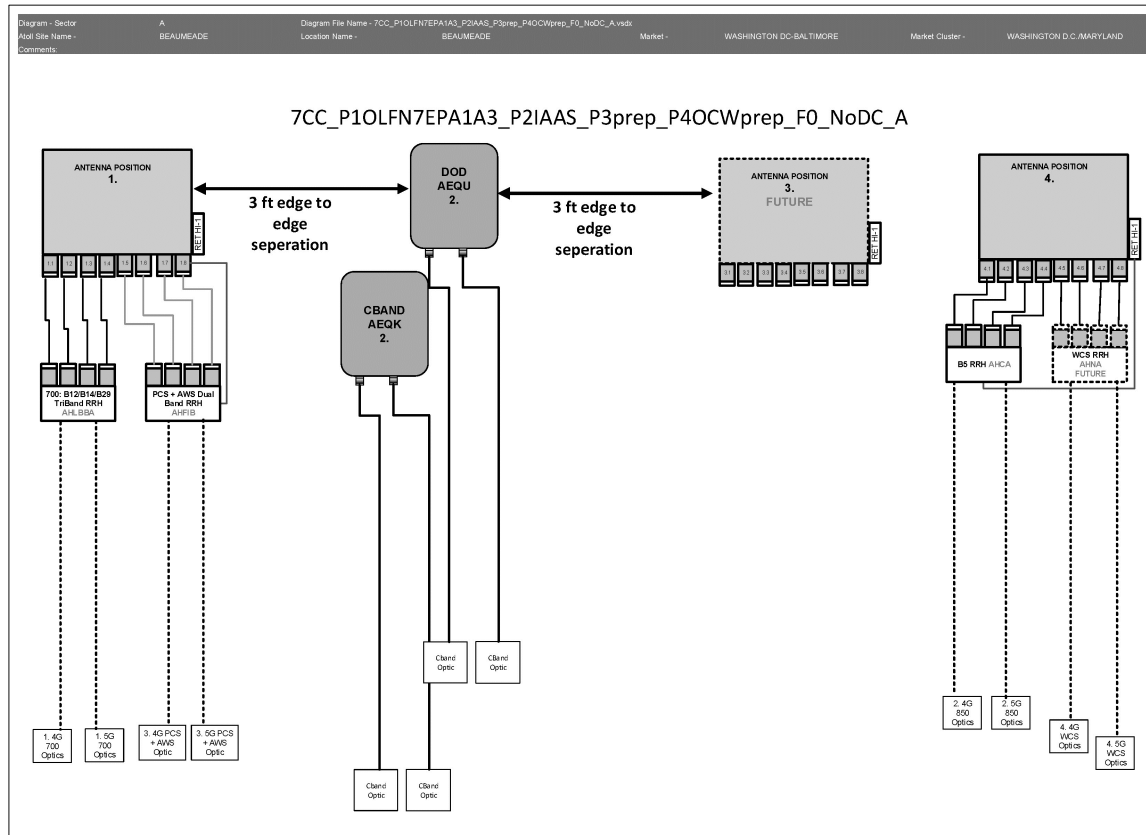
SUBMITTALS

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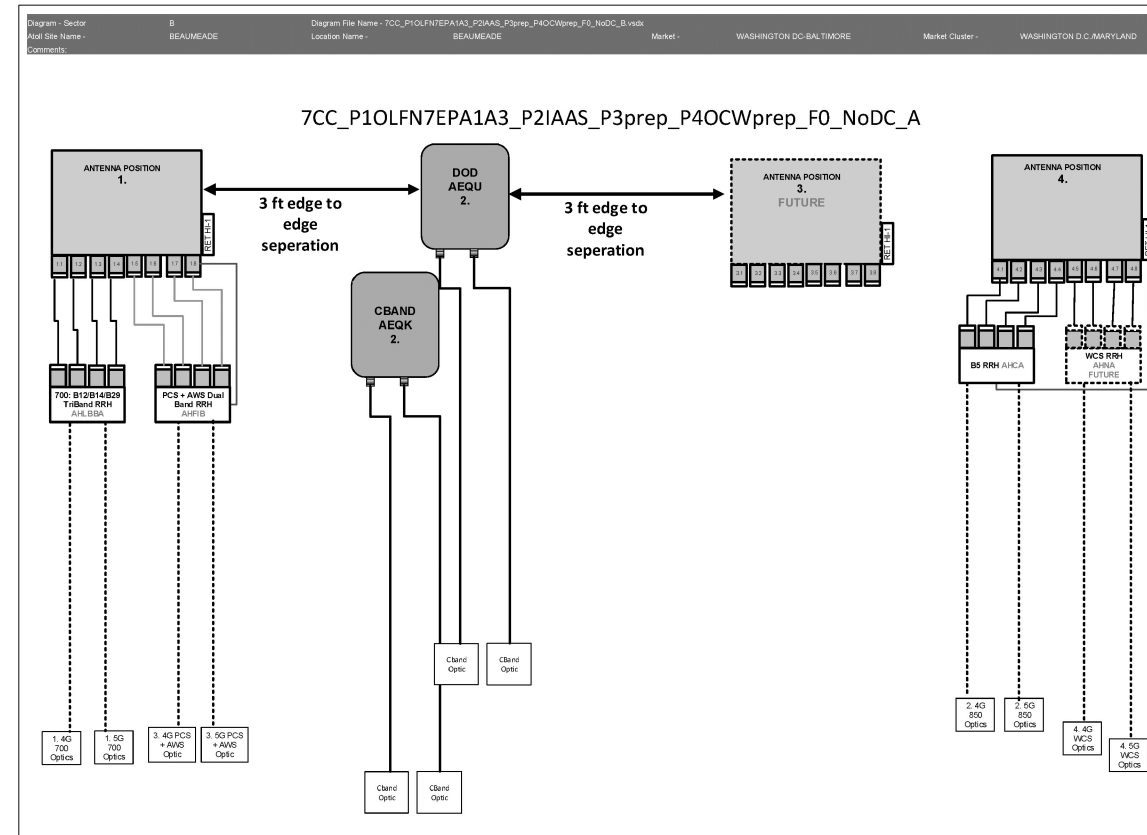
PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.
THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:
ANTENNA SCHEDULE

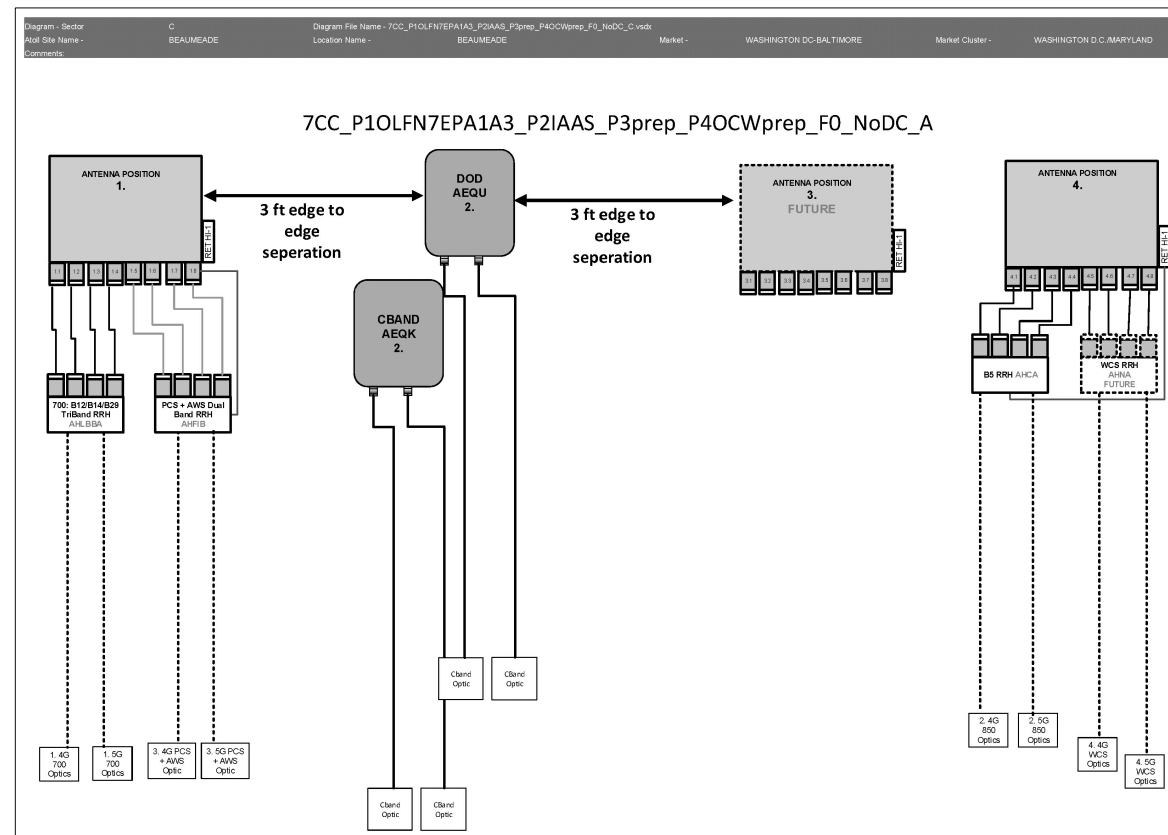
SHEET NUMBER:
S-1



SECTOR A



SECTOR B



SECTOR C

BASED ON RF ENGINEERING DESIGN ENTITLED "WASHINGTON-D.C.-MARYLAND_WASHINGTON-DC-BALTIMORE_BEAUMEADE_2024-NEW-SITE_LTE_GB943A_2251A17JIN_12775856_322566_11-20-2022_PRELIMINARY-SUBMITTED-FOR-APPROVAL_V1.00"

RF PLUMBING DIAGRAM

SCALE: N.T.S.

1
S-2



1750 STANDARD DRIVE
HANOVER, MD 21076



6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
PHONE: (202) 408-0960



1997 ANNAPOLIS EXCHANGE PKWY
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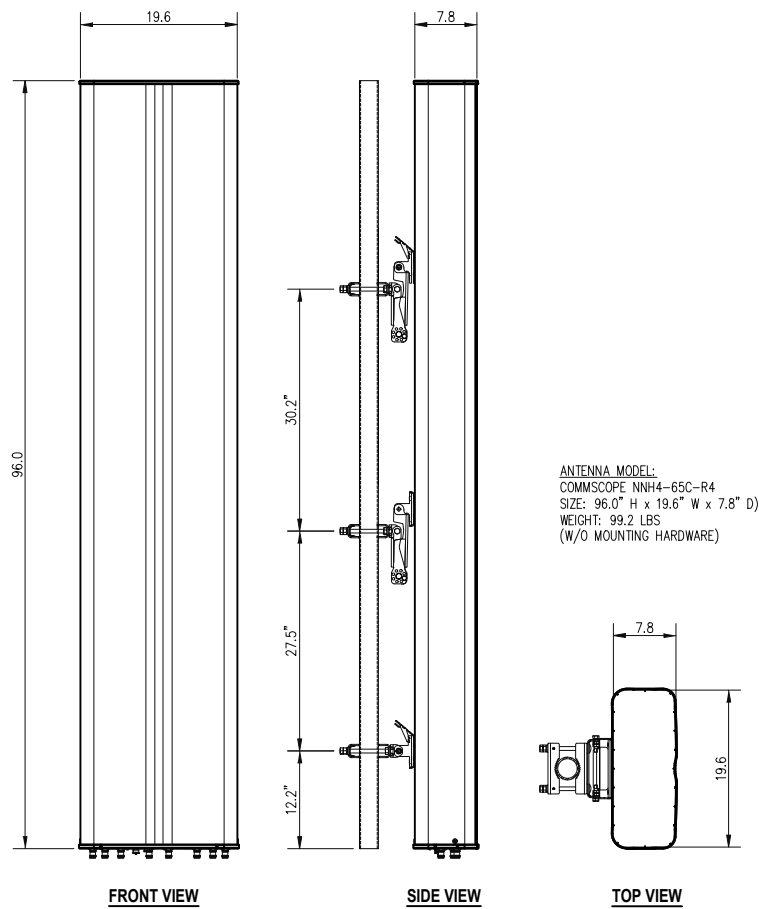
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GRAPHIC SCALE IN INCHES

TITLE:

RF PLUMBING DIAGRAMS

SHEET NUMBER:

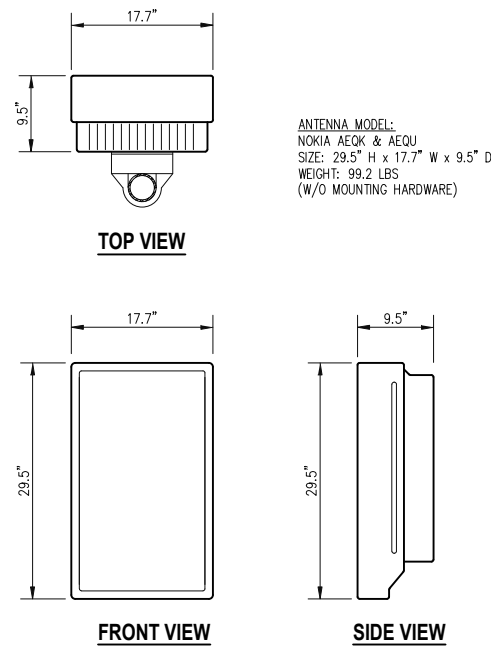
S-2



ANTENNA MODEL:
COMMSCOPE NNH4-65C-R4
SIZE: 96.0" H x 19.6" W x 7.8" D
WEIGHT: 99.2 LBS
(W/O MOUNTING HARDWARE)

COMMSCOPE NNH4-65C-R4 ANTENNA DETAIL
SCALE: 1"=1'-0"

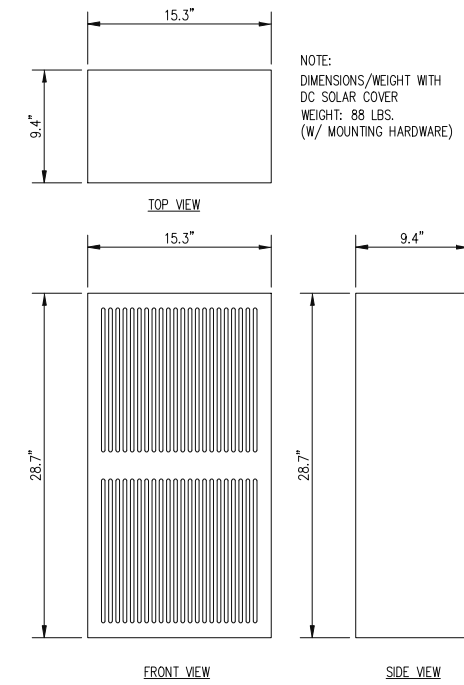
1
S-3



ANTENNA MODEL:
NOKIA AEQK & AEQU
SIZE: 29.5" H x 17.7" W x 9.5" D
WEIGHT: 99.2 LBS
(W/O MOUNTING HARDWARE)

NOKIA AEQK & AEQU ANTENNA
SCALE: 1"= 1'-0"

2
S-3

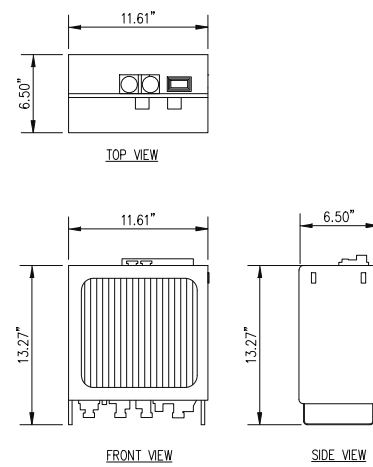


NOTE:
DIMENSIONS/WEIGHT WITH
DC SOLAR COVER
WEIGHT: 88 LBS.
(W/ MOUNTING HARDWARE)

**NOKIA AIRSCALE DUAL RRH
4T4R B25/66 320W AHFIB**

SCALE: 1-1/2"= 1'-0"

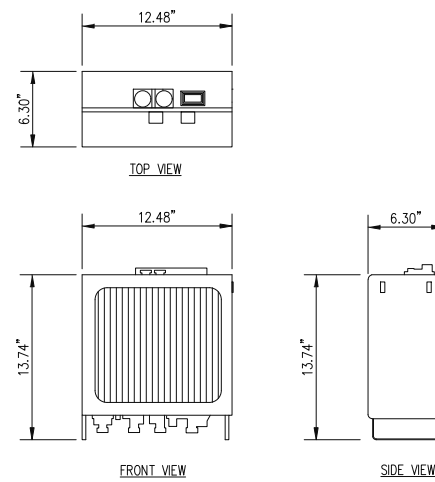
3
S-3



NOTE: DIMENSIONS/WEIGHT WITH DC SOLAR COVER.
WEIGHT: 35 LBS. (W/ MOUNTING HARDWARE)

**NOKIA AIRSCALE RRH
4T4R B5 160W AHCA**
SCALE: 1-1/2"= 1'-0"

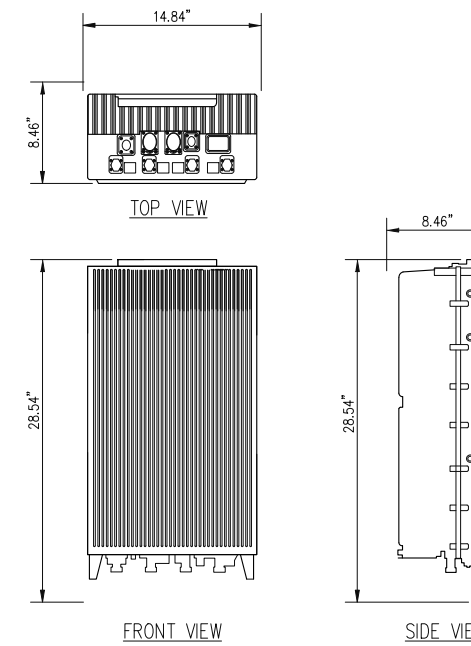
4
S-3



NOTE: DIMENSIONS/WEIGHT WITH DC SOLAR COVER.
WEIGHT: 39.2 LBS. (W/ MOUNTING HARDWARE)

**NOKIA AIRSCALE RRH
4T4R B30 100W AHNA**
SCALE: 1-1/2"= 1'-0"

5
S-3



NOTE: DIMENSIONS/WEIGHT WITH DC SOLAR COVER.
WEIGHT: 101.4 LBS. (W/ MOUNTING HARDWARE)

**NOKIA AIRSCALE TRIBAND RRH
4T4R B12/14/B29 370W AHLBBA**
SCALE: 1-1/2"= 1'-0"

6
S-3



FA NUMBER: 12775856
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SEAL:

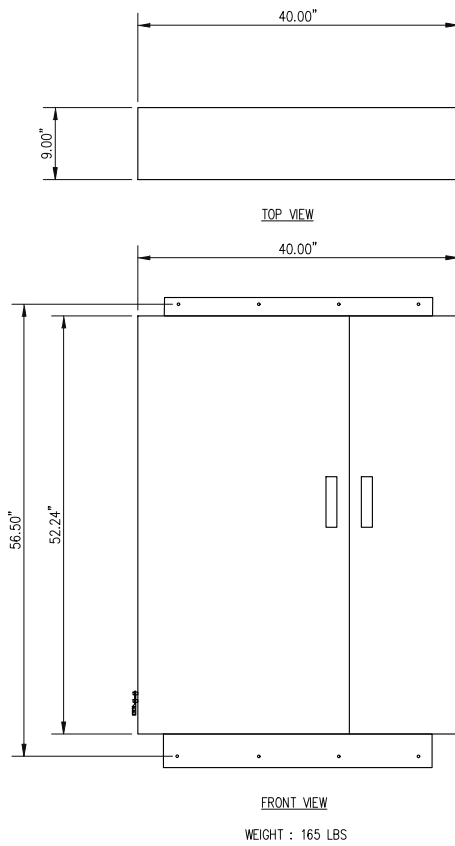
SUBMITTALS

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PROJECT NO: 1152.492
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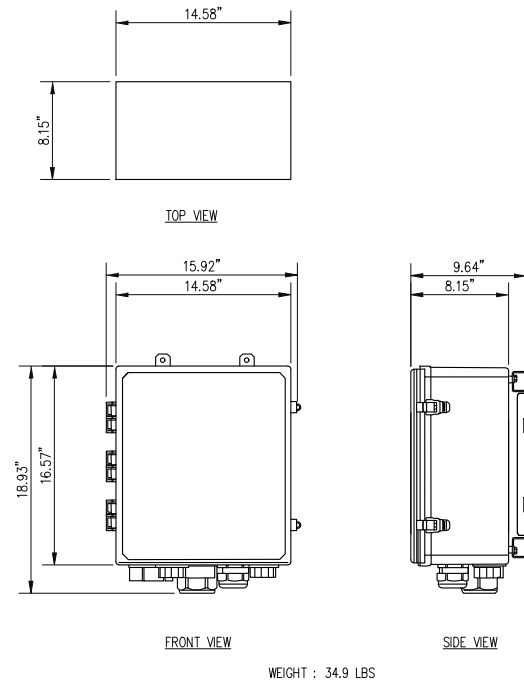
TITLE:
**ANTENNA &
RRH DETAILS**

SHEET NUMBER:
S-3



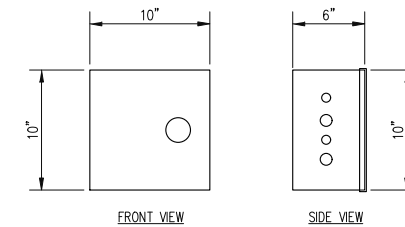
**OVERVOLTAGE PROTECTION & POWER
MANAGEMENT JUNCTION BOX DC50-48-60-96-50F**
SCALE: 1" = 1'-0"

1
S-4



**SURGE SUPPRESSION
RAYCAP (NEMA) DC9-48-60-24-PC16-EV**
SCALE: N.T.S.

2
S-4



**DISTRIBUTION BOX
HOFFMAN AHE10X10X6**
SCALE: N.T.S.

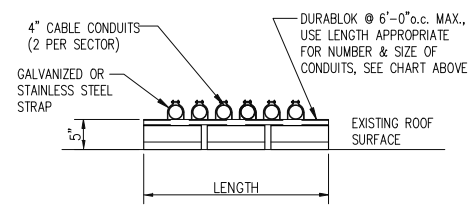
3
S-4



**FA NUMBER: 12775856
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2553 DULLES VIEW DR
HERNDON, VA 20171**

SEAL:

DURABLOK DB SERIES LENGTH CHART	
PART NUMBER	LENGTH
DB5	4.8"
DB10	9.6"
DB20	20.2"
DB30	30.8"
DB40	41.4"



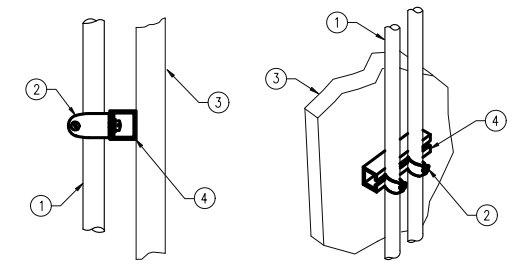
CABLE CONDUIT SUPPORT DETAIL
SCALE: 3/4" = 1'-0"

4
S-4

NOTES:
1. USE STANDARD STAINLESS STEEL HARDWARE FOR WALL CONNECTIONS.
2. SPACE SUPPORTS @ 6'-0" ON CENTER MAXIMUM.
3. DETAIL APPLIES TO BOTH VERTICAL AND HORIZONTAL CONDUIT RUNS.

UNISTRUT MOUNTING CHART	
WALL CONSTRUCTION TYPE	USE
HOLLOW	3/8" TOGGLE BOLT
HOLLOW, AT STUD	3/8" LAG SCREW
CONCRETE BLOCK (HOLLOW)	3/8" HILTI HY-70 (MIN. EMBEDMENT 2-1/2")
CONCRETE (SOLID)	3/8" HILTI HY-200 (MIN. EMBEDMENT 2-1/2")

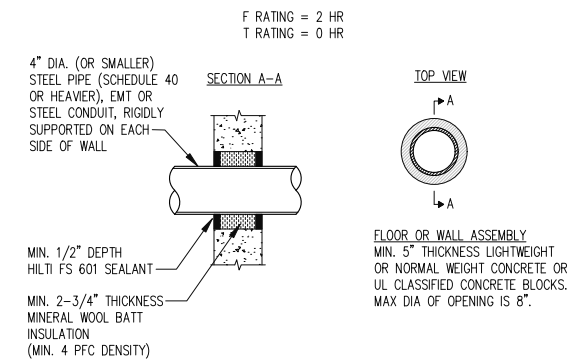
- 1 CONDUIT OR INNERDUCT
- 2 BUTTERFLY CLAMP AS REQUIRED
- 3 EXISTING WALL ASSEMBLY
- 4 UNISTRUT P1000 'T' SERIES LENGTH BASED ON NUMBER OF CONDUIT TO BE MOUNTED



CONDUIT ON WALL DETAIL
SCALE: 3/4" = 1'-0"

5
S-4

U.L. SYSTEM NO. W-J-1020
METAL PIPE/CONDUIT THROUGH CONCRETE CONC OR CMU WALL



CONDUIT PENETRATION DETAIL
SCALE: N.T.S.

6
S-4

SUBMITTALS

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OVP, JUNCTION BOX & CONDUIT DETAILS

SHEET NUMBER:
S-4



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6100 EXECUTIVE BLVD, SUITE 430
ROCKVILLE, MD 20852
PHONE: (202) 408-0960



1997 ANNAPOLIS EXCHANGE PKWY
SUITE 200
ANNAPOLIS, MD 21401
PHONE: (410) 582-8043

FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492

DESIGNER: A.H.

ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED
TO BE FULL-SIZE AT 22"x34"

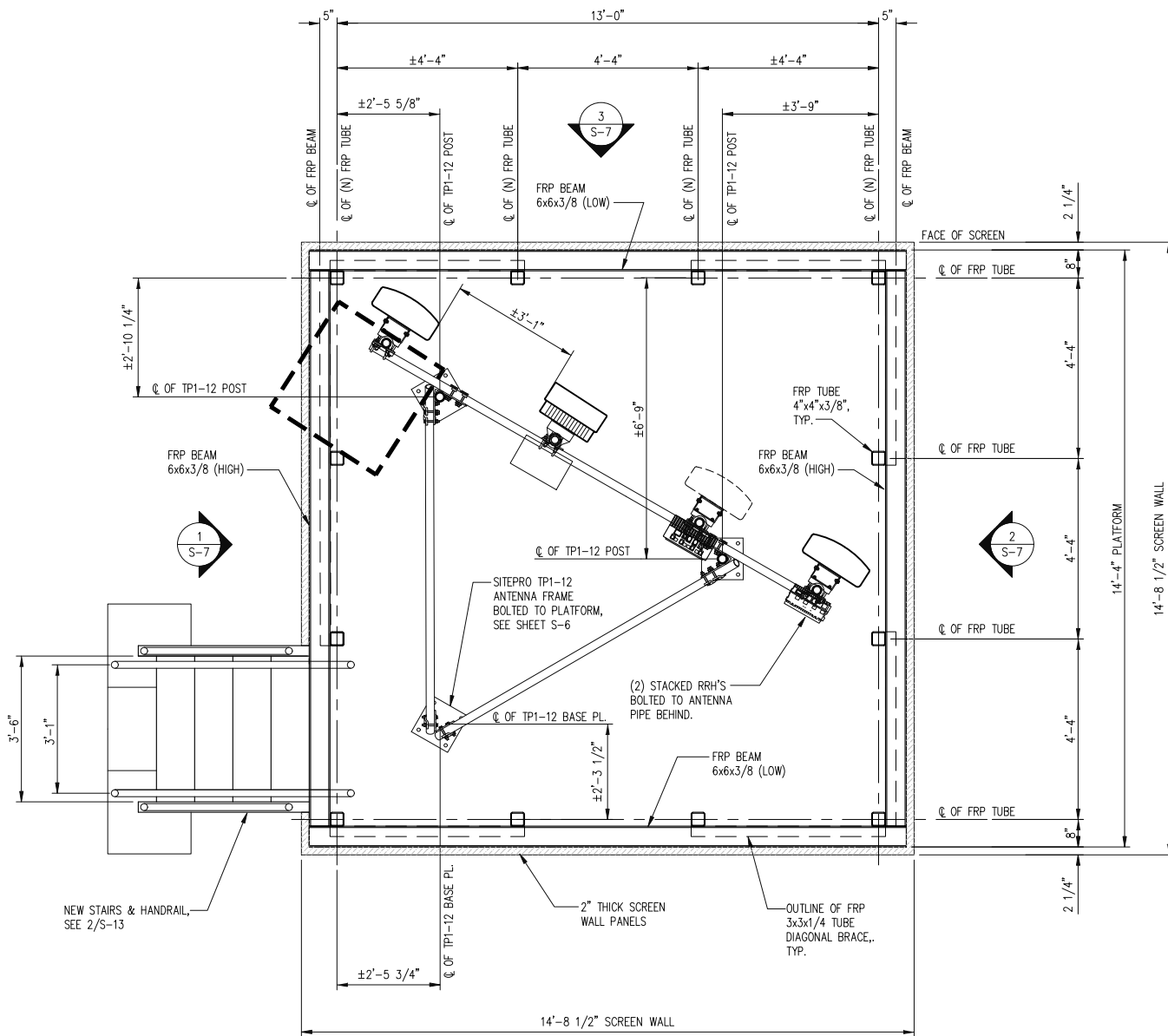
0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:

ANTENNA
PLATFORM PLANS

SHEET NUMBER:

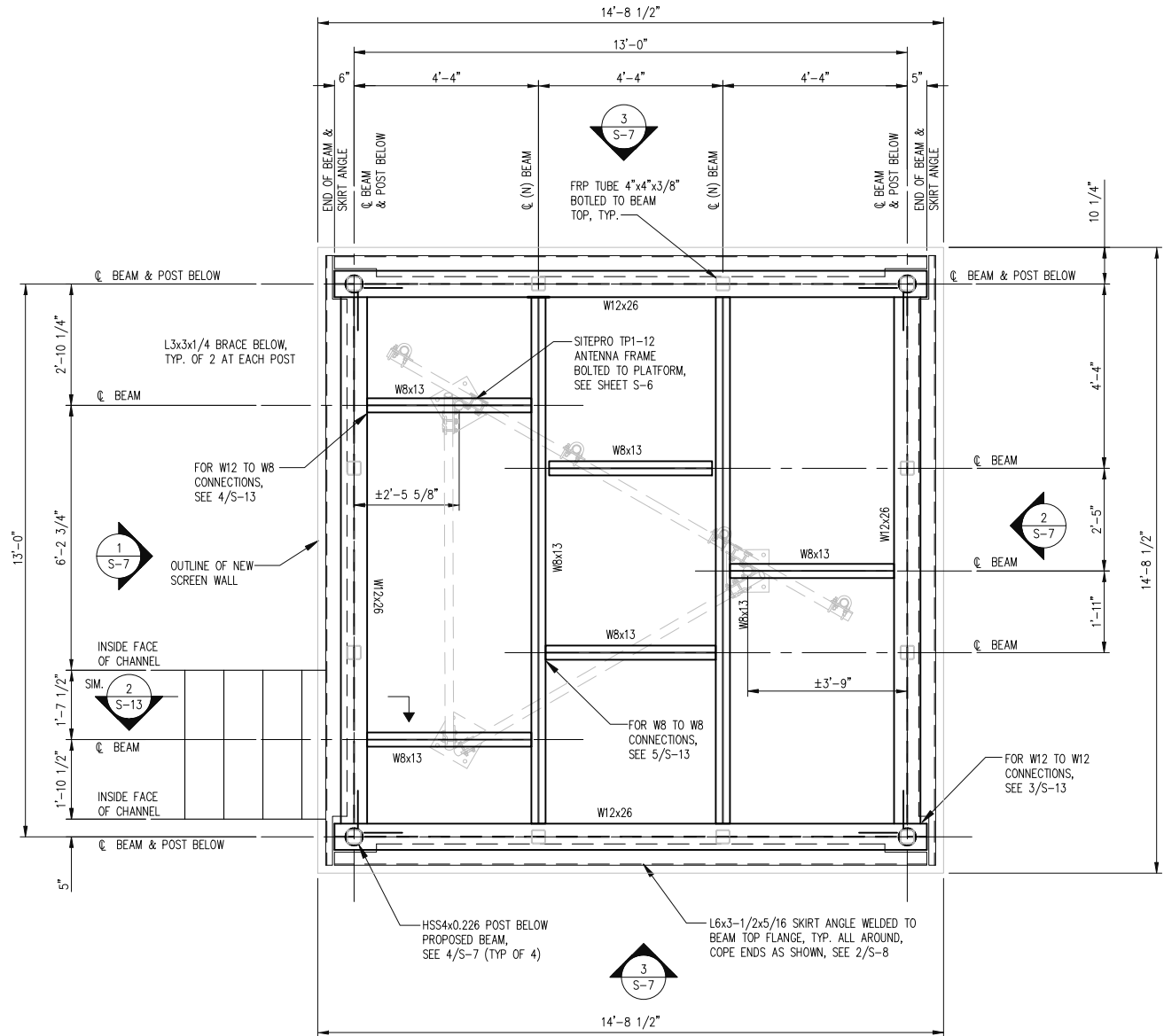
S-5



SECTOR C ANTENNA LAYOUT PLAN
(SECTOR A OPPOSITE HAND)

SCALE: 1/2"=1'-0"

1
S-5



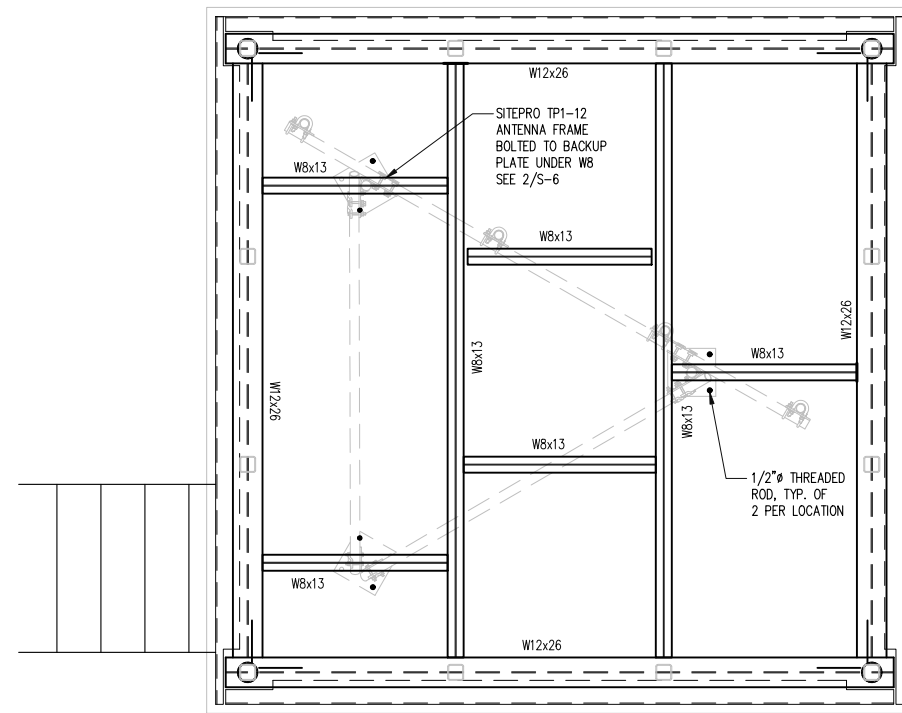
NOTES:

1. THE PLATFORM DESIGN LOAD IS 60 PSF.
2. GRATING SHALL BE 1 1/2" X 3/16" BEARING BARS 1 3/16" O.C. AND 1/8" X 3/4" CROSS BARS 4" O.C. SECURE GRATING TO STEEL FRAMING WITH GRATING CLAMPS 18" O.C. GRATING SHALL BE HOT DIP GALVANIZED AND ALL EDGES AND OPENINGS SHALL BE BANDED.
3. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED. CLEAN WELDED AREAS WITH POWER TOOL. PAINT WELDED AREAS WITH TWO LAYERS OF GALVANIC PAINT.
4. REFER TO SHEET N-1 FOR STRUCTURAL NOTES.

SECTOR C ANTENNA PLATFORM FRAMING PLAN
(SECTOR A OPPOSITE HAND)

SCALE: 1/2"=1'-0"

2
S-5

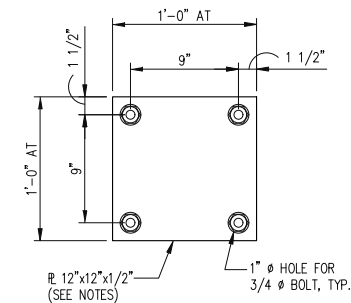


TP1-12 ANTENNA SUPPORT FRAME BOLTING PLAN

SCALE: 1/2"=1'-0"

1
S-6

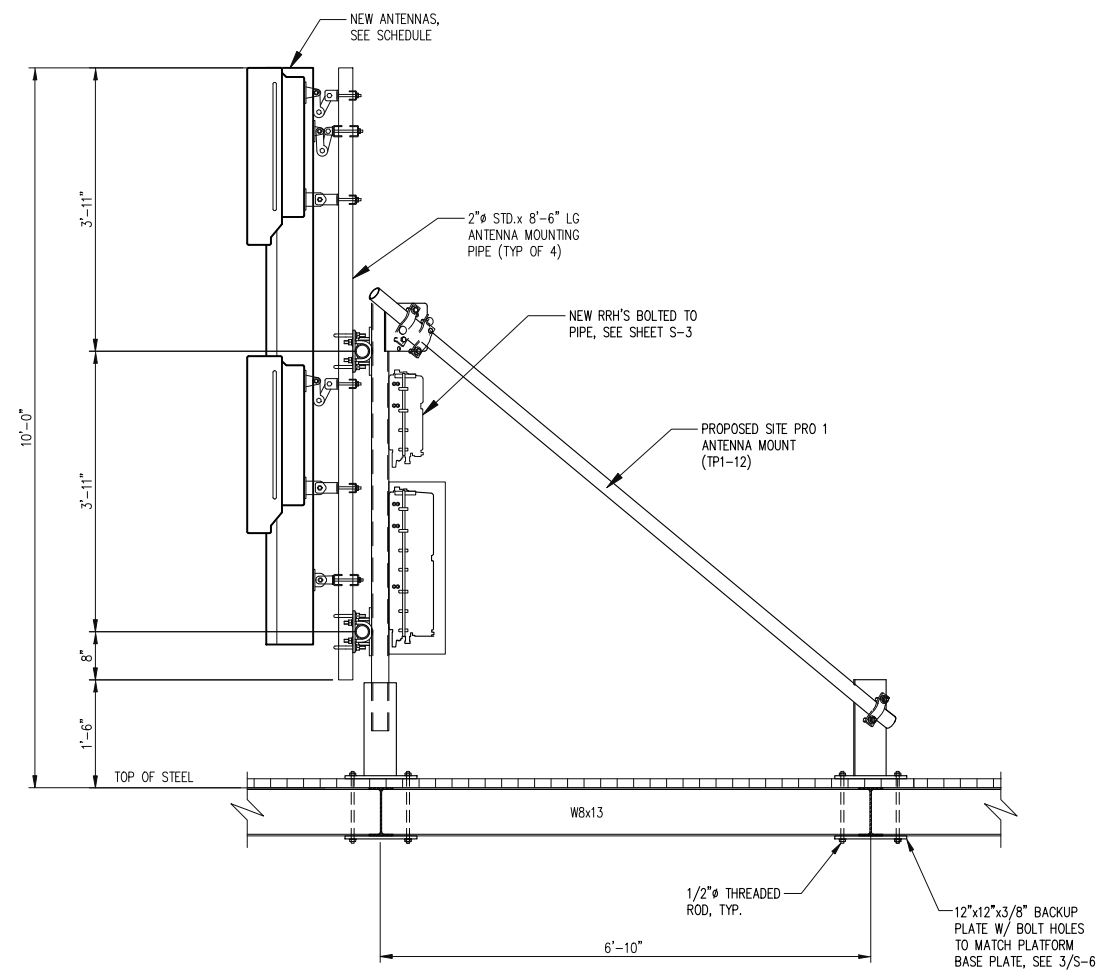
NOTES:
1. MATCH SITE PRO 1 X-TP-P1 (BASE PLATE)
2. COORDINATE LOWER PLATE WITH THE ORIENTATION OF THE SITE PRO 1 TP1-12 BASE PLATE



BACK-UP PLATE DETAIL

SCALE: 1-1/2"=1'-0"

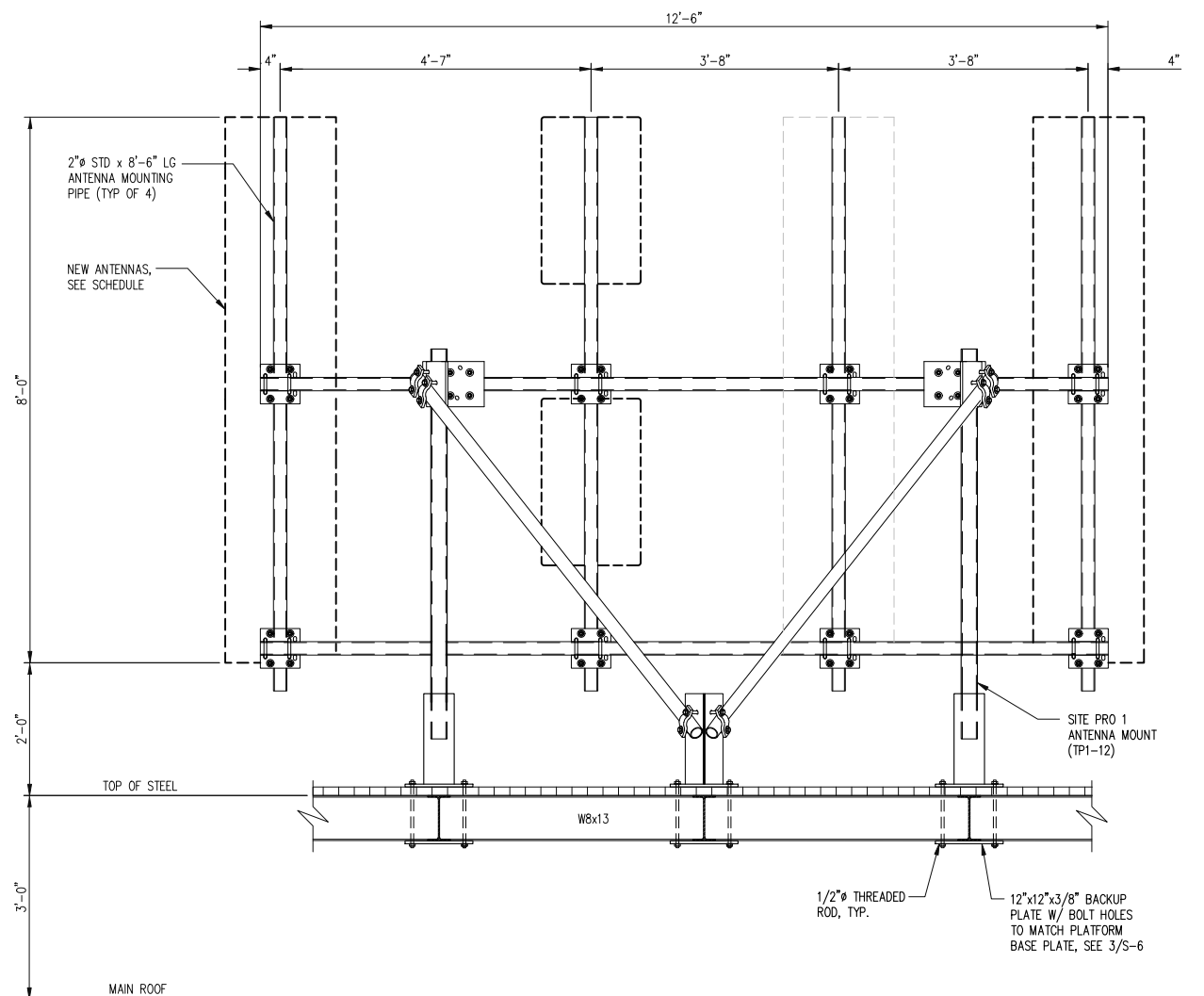
3
S-6



ANTENNA SUPPORT FRAME SIDE ELEVATION

SCALE: 3/4"=1'-0"

2
S-6



ANTENNA SUPPORT FRAME BACK ELEVATION

SCALE: 3/4"=1'-0"

4
S-6



7150 STANDARD DRIVE
HANOVER, MD 21076



6100 EXECUTIVE BLVD, SUITE 430
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1997 ANNAPOLIS EXCHANGE PKWY
SUITE 200
ANNAPOLIS, MD 21401
PHONE: (410) 582-8043

FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

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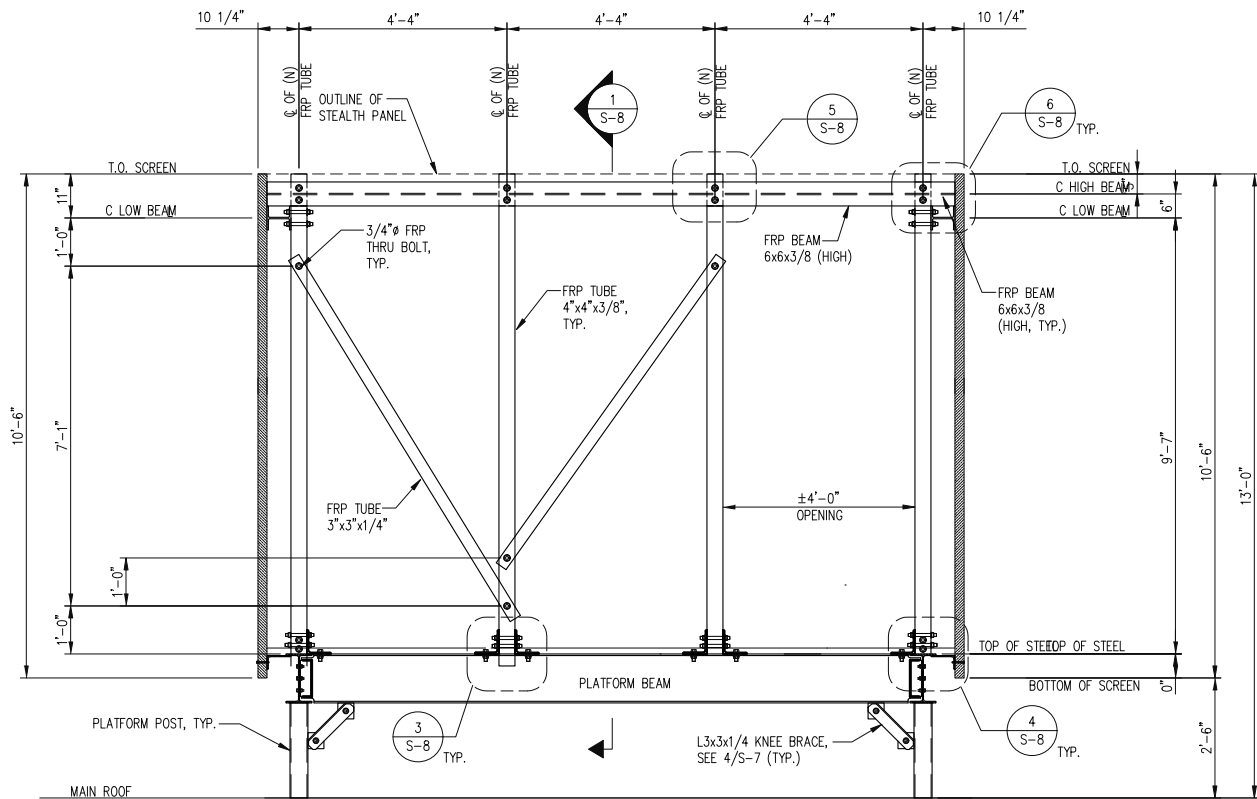
PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

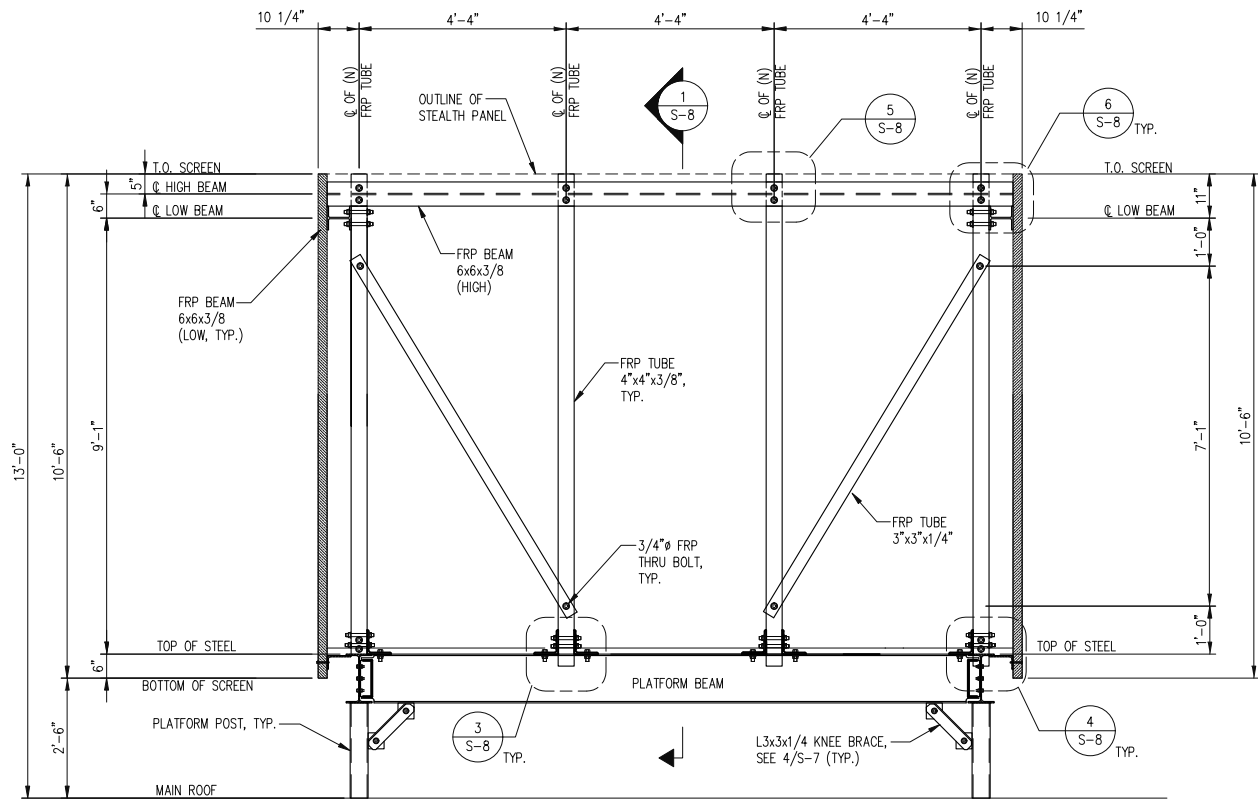
TITLE:
ANTENNA SUPPORT FRAME DETAILS

SHEET NUMBER:

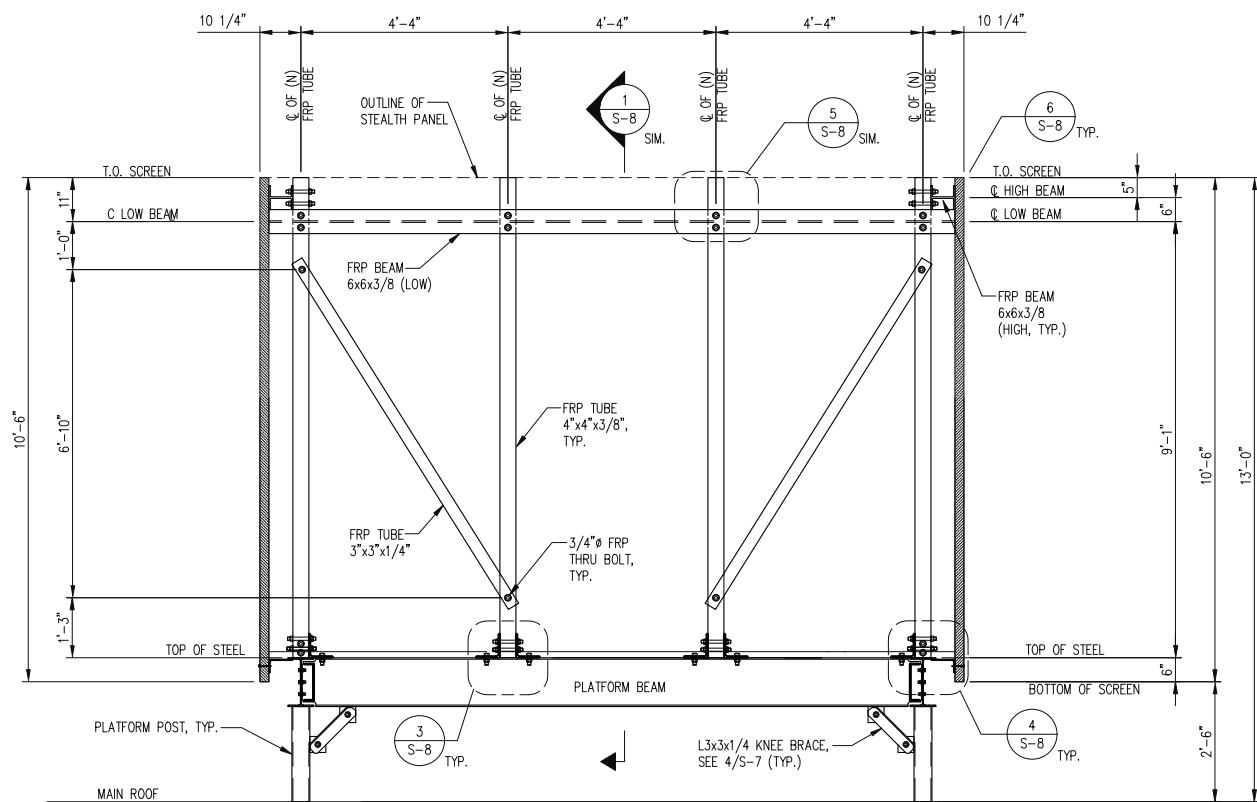
S-6



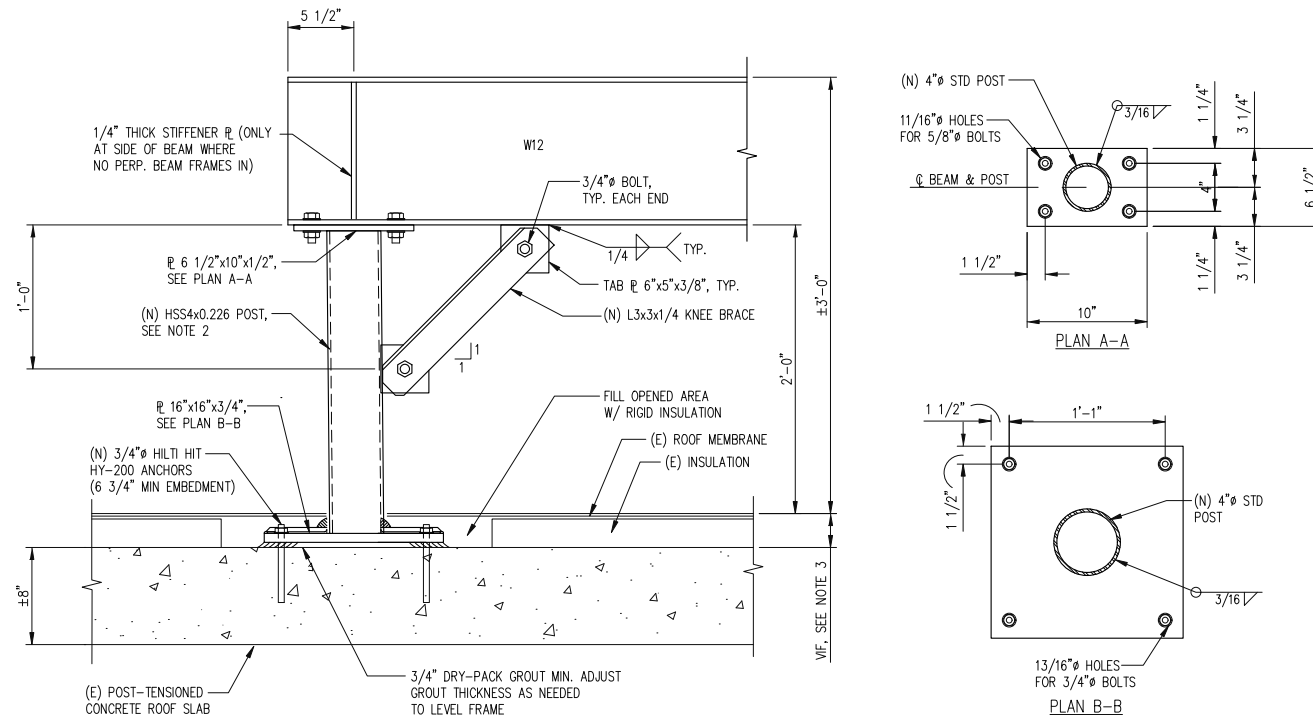
ANTENNA PLATFORM ELEVATION - 1
SCALE: 1/2" = 1'-0" (1 S-7)



ANTENNA PLATFORM ELEVATION - 2
SCALE: 1/2" = 1'-0" (2 S-7)



ANTENNA PLATFORM ELEVATION - 3
SCALE: 1/2" = 1'-0" (3 S-7)



- NOTES:**
1. VERIFY EXISTING CONDITION IN FIELD. CONTACT ENTREX FOR CONNECTION REVISIONS IF EXISTING STRUCTURE CONDITIONS ARE NOT AS SHOWN.
 2. EXISTING AND PROPOSED WATER PROOFING IS NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING OWNER'S ROOF CONTRACTOR WHO WILL COMPLETE ALL WORK ASSOCIATED WITH THE ROOF. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE BUILDING OWNER'S ROOF CONTRACTOR BEFORE INSTALLATION OF ANY ROOF.
 3. VERIFY DEPTH OF INSULATION AT POST LOCATION, AND FIELD CUT LENGTH OF POST AS NEEDED. POST SHALL BE FIELD WELDED TO BASE PLATE AFTER REQUIRED PIPE LENGTH HAS BEEN DETERMINED. THE FIELD WELDING CAN BE DONE AT GROUND LEVEL TO AVOID WELDING ON ROOF.

TYPICAL POST TO SLAB CONNECTION
SCALE: 1 1/2" = 1'-0" (4 S-7)

SEAL:

SUBMITTALS

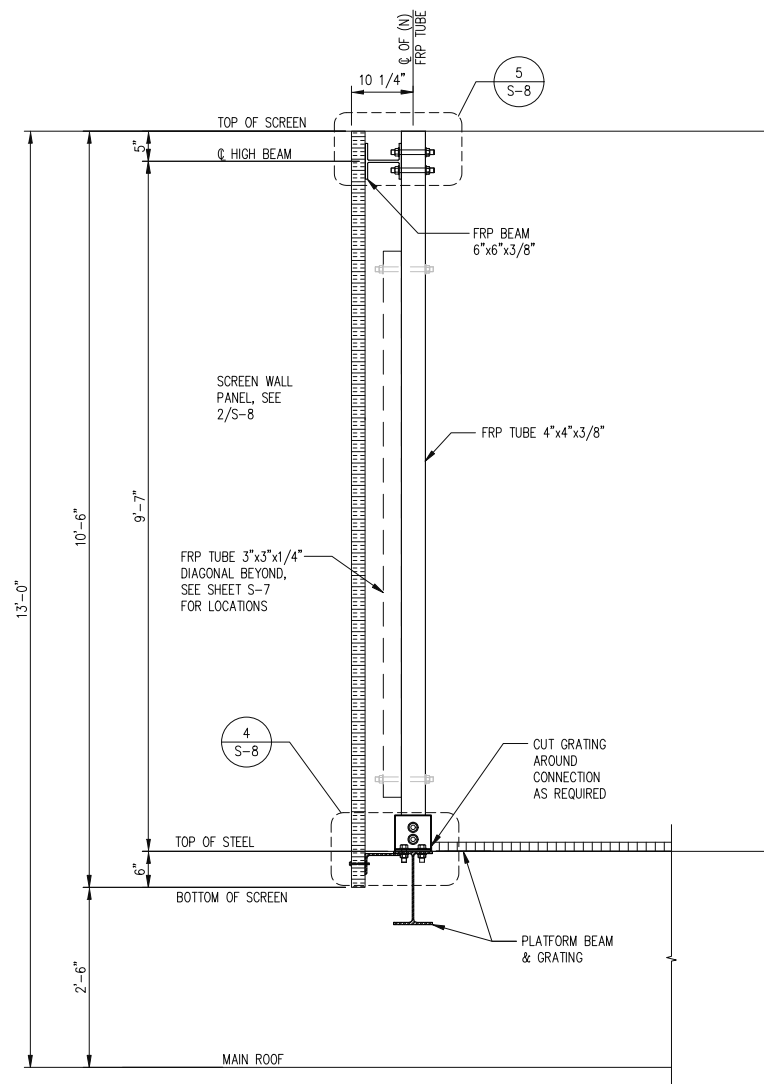
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12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.
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0 1/2 1
GRAPHIC SCALE IN INCHES

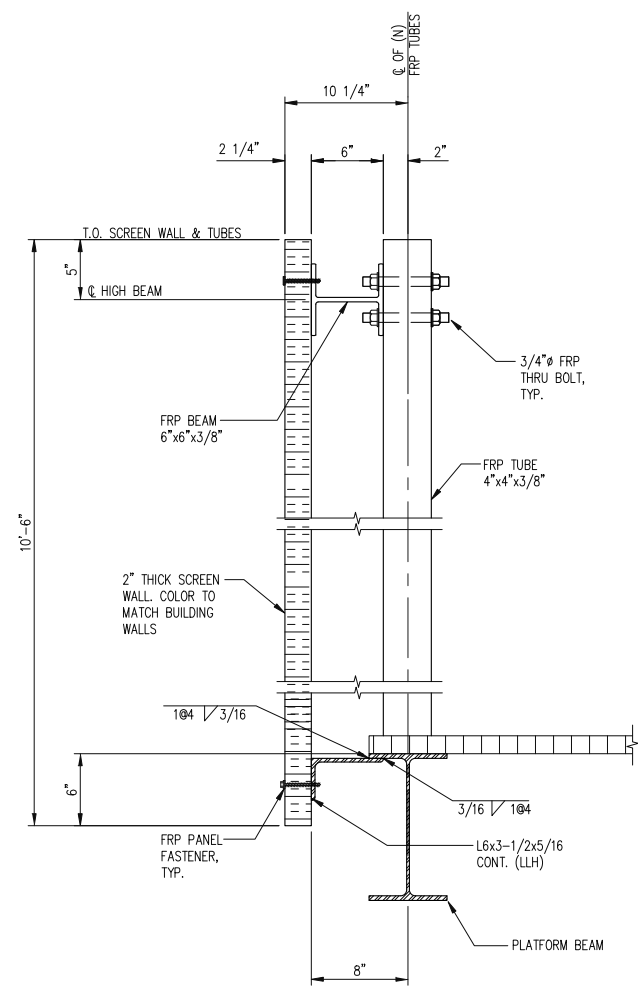
ANTENNA PLATFORM ELEVATIONS

SHEET NUMBER:

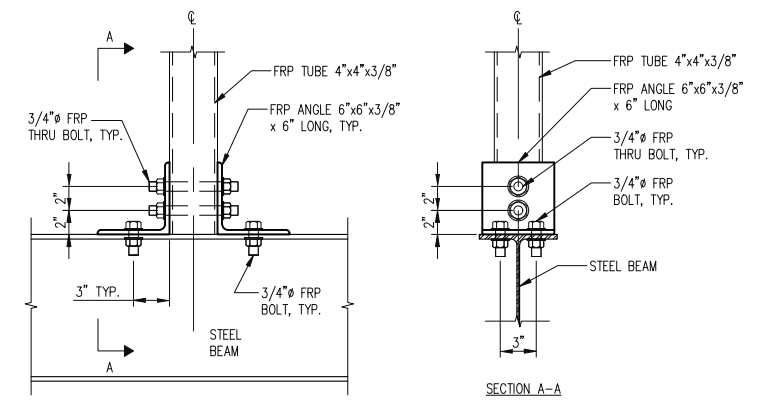
S-7



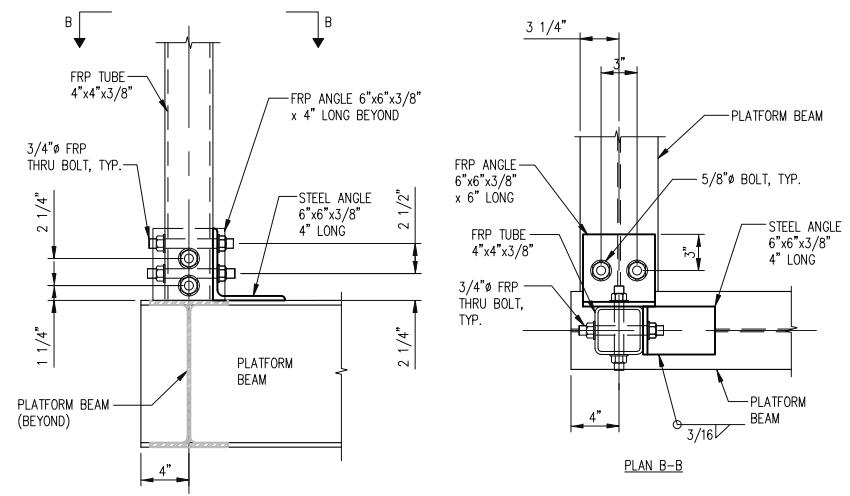
1
S-8



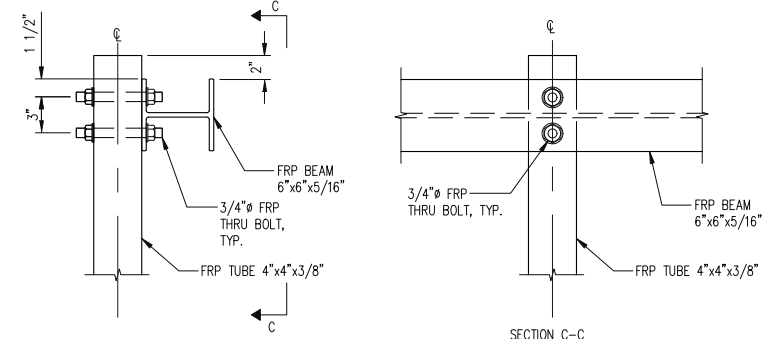
2
S-8



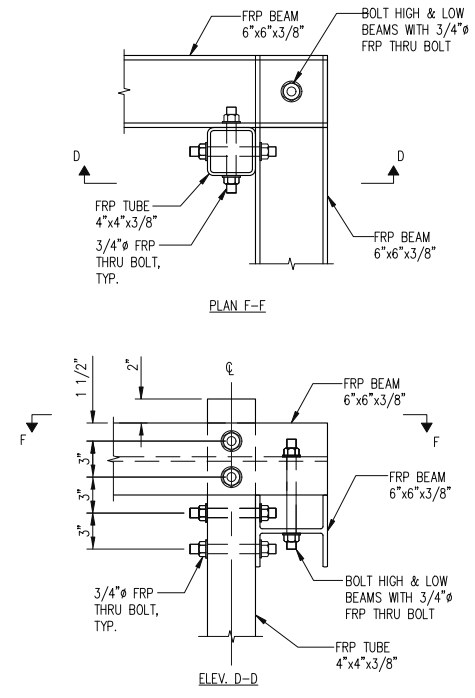
3
S-8



4
S-8



5
S-8



6
S-8



FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

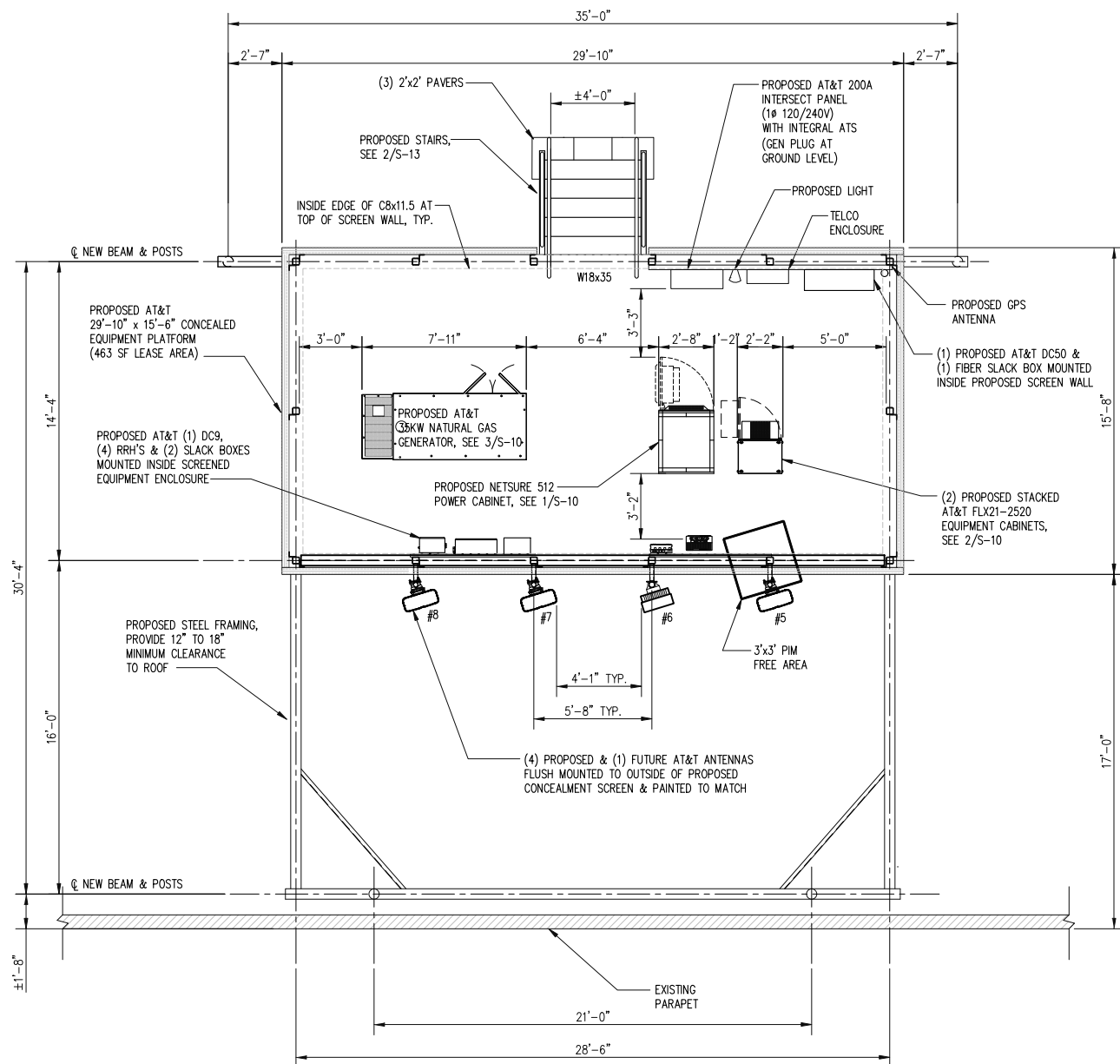
SUBMITTALS

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PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.
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0 1/2 1
GRAPHIC SCALE IN INCHES

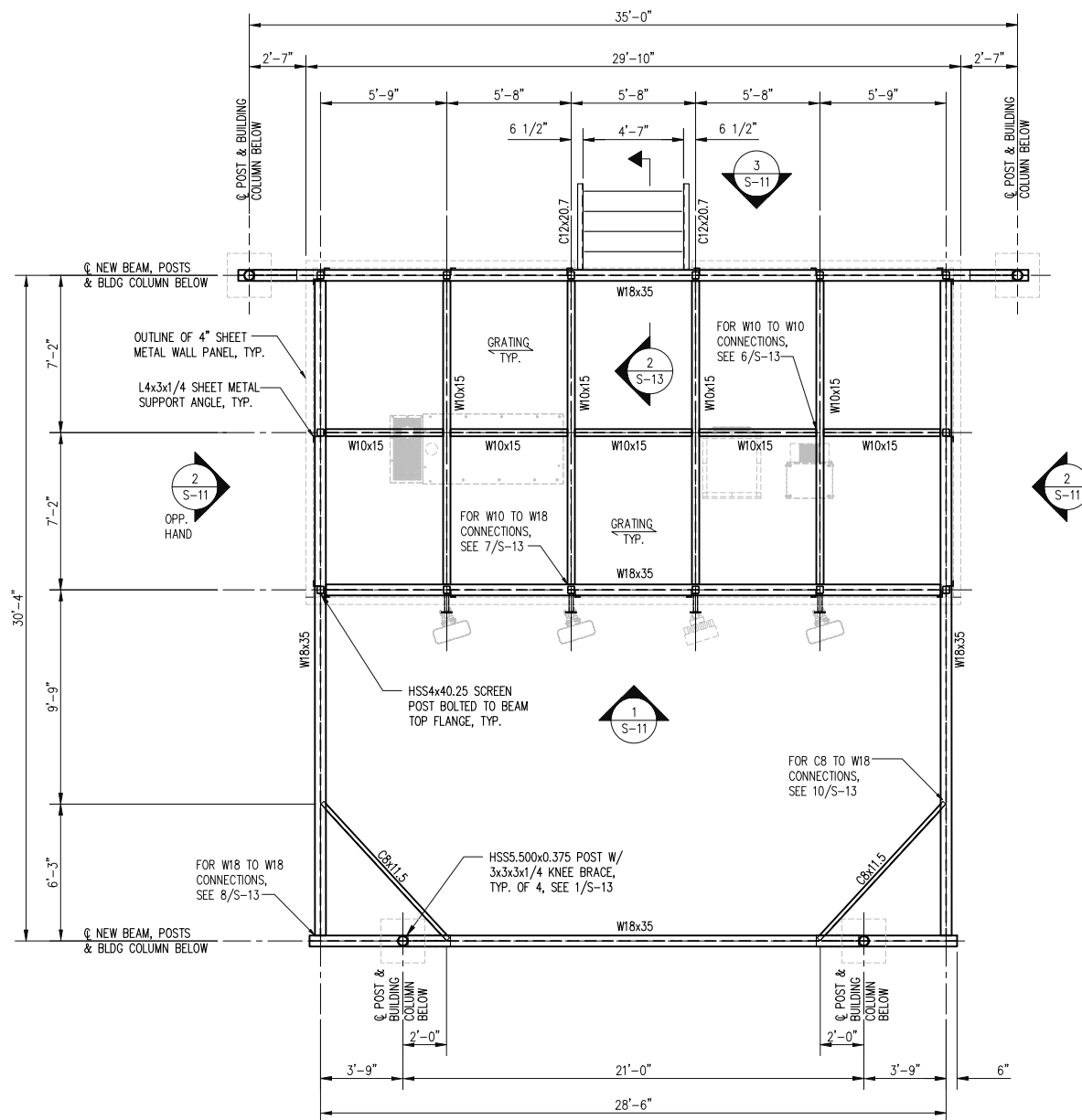
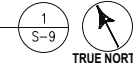
TITLE:
ANTENNA SCREEN WALL DETAILS

SHEET NUMBER:
S-8



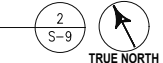
EQUIPMENT PLATFORM PLAN

SCALE: 1/8"=1'-0"



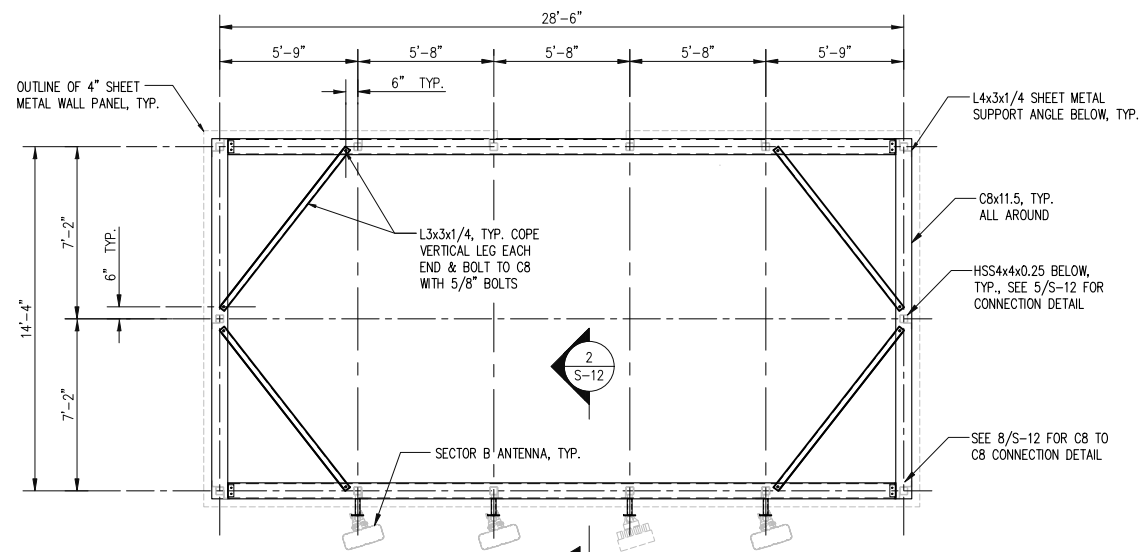
PLATFORM FRAMING PLAN

SCALE: 1/8"=1'-0"



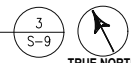
NOTES:

1. CONTRACTOR SHALL FIELD VERIFY COLUMN LOCATIONS PRIOR TO FABRICATION. (FIELD DETERMINED COLUMN LOCATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO FABRICATION (ENTREX COMMUNICATION SERVICES 202-408-0960)).
2. THE CONTRACTOR SHALL PREPARE A SET OF STEEL SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO ORDERING/FABRICATING STEEL.
3. THE PLATFORM DESIGN LOAD IS 60 PSF. THE STAIR DESIGN LIVE LOAD IS 100 PSF.
4. GRATING SHALL BE 1 1/2" x 3/16" BEARING BARS 1 3/16" O.C. & 1/8" x 3/4" CROSS BARS 4" O.C. SECURE GRATING TO STEEL FRAMING WITH GRATING CLAMPS 18" O.C. GRATING SHALL BE HOT DIP GALVANIZED AND ALL EDGES AND OPENINGS SHALL BE BANNED.
5. THE TOP OF PLATFORM STEEL FRAMING IS 3'-0" ABOVE THE EXISTING ROOF SURFACE. THE CLEARANCE BETWEEN BOTTOM OF STEEL AND ROOF IS 12" - 18".
6. ALL STEEL SHALL BE HOT-DIPPED GALVANIZED. CLEAN WELDED AREAS WITH POWER TOOL. PAINT WELDED AREAS WITH TWO LAYERS OF GALVANIC PAINT.
7. REFER TO SHEET N-1 FOR STRUCTURAL NOTES.
8. SEE SHEET S-7 FOR TYPICAL BEAM CONNECTION DETAILS.
9. EXISTING PAVERS NOT SHOWN FOR CLARITY.



PLATFORM SCREEN TOP FRAMING PLAN

SCALE: 1/8"=1'-0"



1750 STANDARD DRIVE
HANOVER, MD 21076



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FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

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PROJECT NO: 1152.492

DESIGNER: A.H.

ENGINEER: C.S.

THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"

0 1/2 1
GRAPHIC SCALE IN INCHES

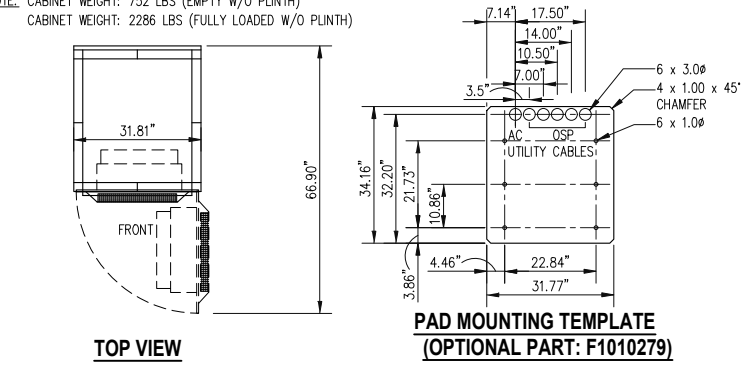
TITLE:

EQUIPMENT PLATFORM PLANS

SHEET NUMBER:

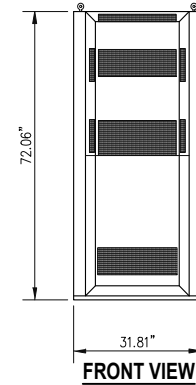
S-9

NOTE: CABINET WEIGHT: 752 LBS (EMPTY W/O PLINTH)
 CABINET WEIGHT: 2286 LBS (FULLY LOADED W/O PLINTH)

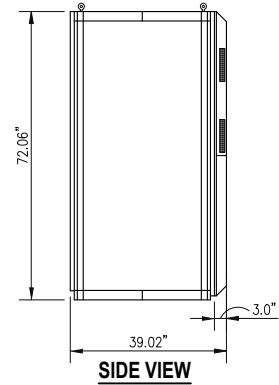


TOP VIEW

PAD MOUNTING TEMPLATE
 (OPTIONAL PART: F1010279)



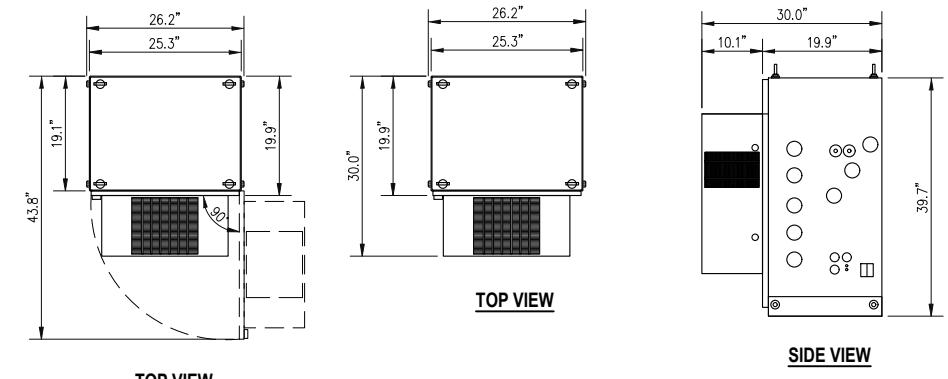
FRONT VIEW



SIDE VIEW

OUTDOOR NETSURE 512 DC POWER CABINET DETAIL
 SCALE: 1/2"=1'-0"

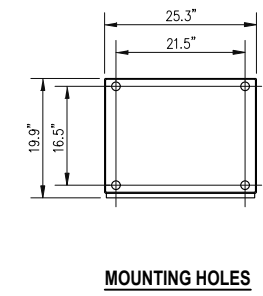
1
 S-10



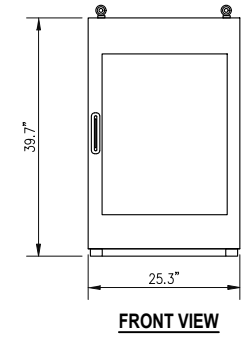
TOP VIEW

TOP VIEW

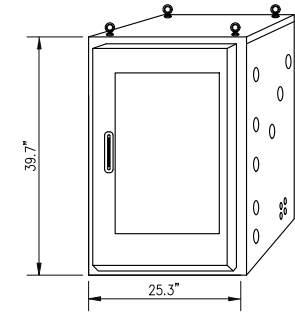
SIDE VIEW



MOUNTING HOLES



FRONT VIEW



FLX21 CABINET DETAIL
 SCALE: 3/4"=1'-0"

2
 S-10



FA NUMBER: 12775856
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 HERNDON, VA 20171

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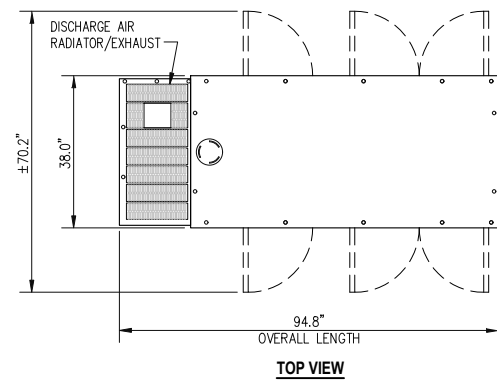
PROJECT NO: 1152.492
 DESIGNER: A.H.
 ENGINEER: C.S.
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 0 1/2 1
 GRAPHIC SCALE IN INCHES

TITLE:

EQUIPMENT DETAILS

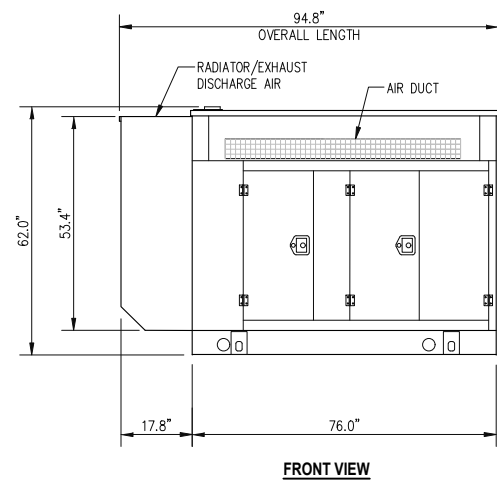
SHEET NUMBER:

S-10

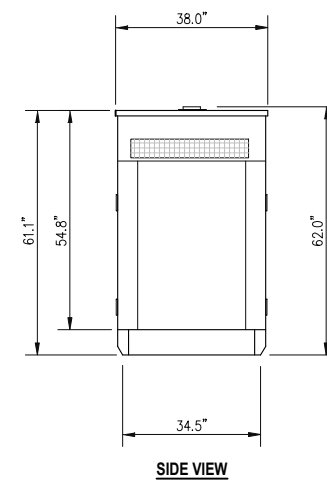


TOP VIEW

GENERATOR WITH LEVEL 2 ACOUSTIC ENCLOSURE
 DIMENSION (LxWxH): 94.8" x 38" x 62"
 WEIGHT: 2871 LBS



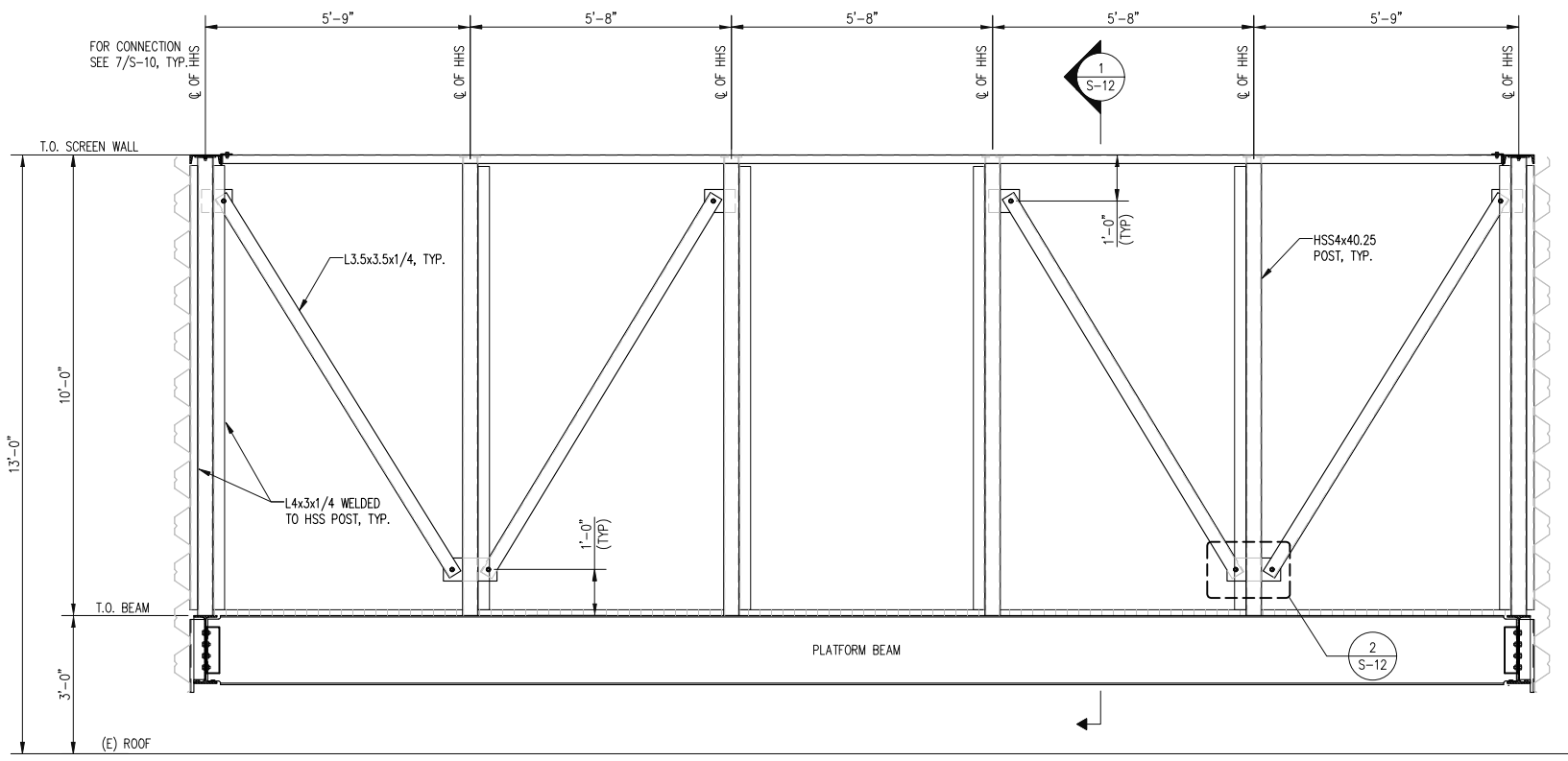
FRONT VIEW



SIDE VIEW

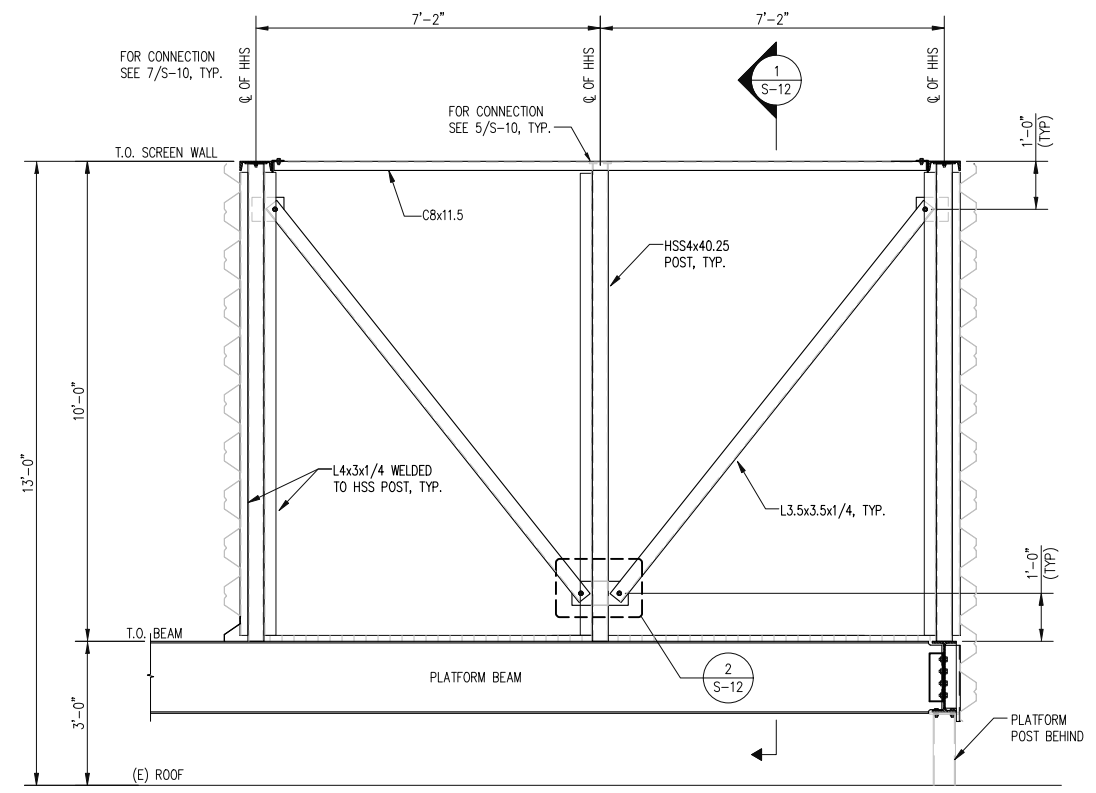
GENERAC 35KW AC NATURAL GAS GENERATOR
 SCALE: 1/2"=1'-0"

3
 S-10

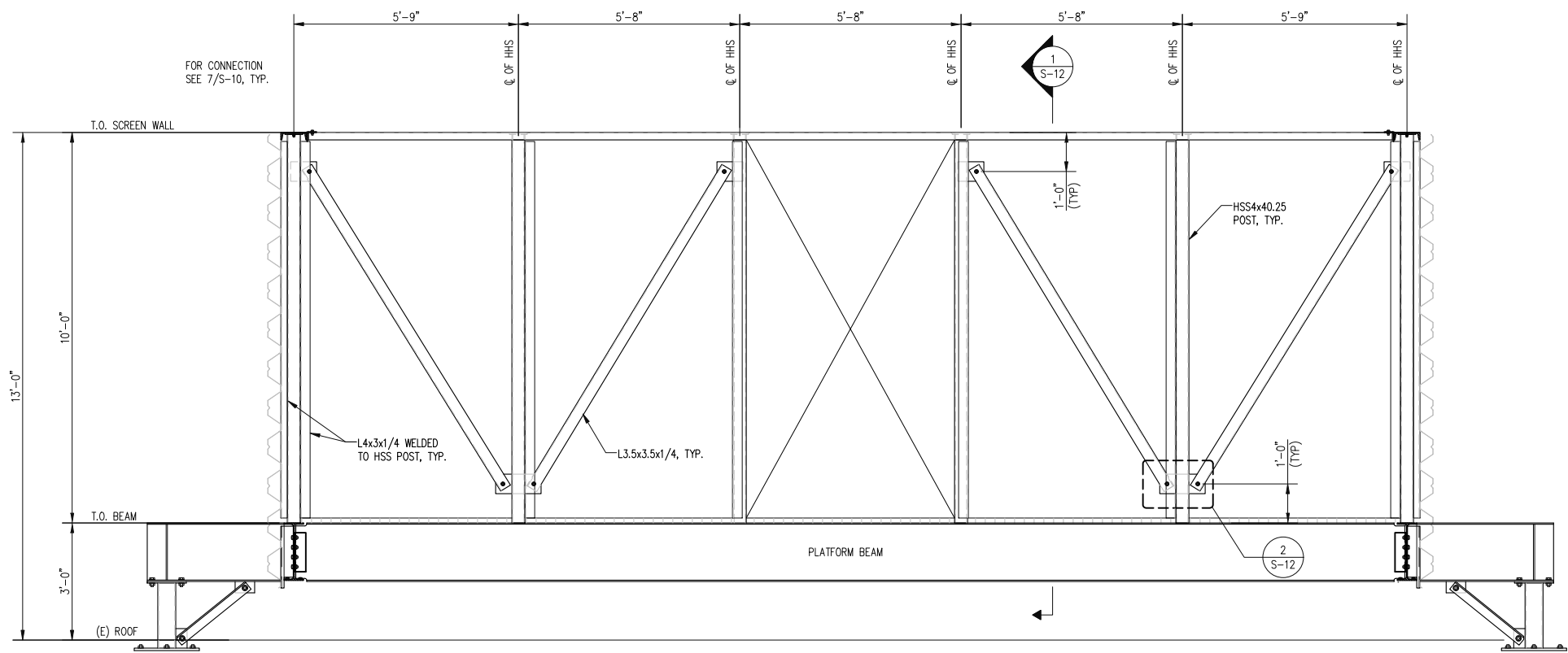


NOTE:
FLASHING & ANTENNA SUPPORT PIPES NOT SHOWN FOR CLARITY.

EQUIPMENT PLATFORM ELEVATION - 1 1
S-11
SCALE: 1/2" = 1'-0"



EQUIPMENT PLATFORM ELEVATION - 2 2
S-11
SCALE: 1/2" = 1'-0"



NOTE:
STAIRS & FLASHING NOT SHOWN FOR CLARITY.

EQUIPMENT PLATFORM ELEVATION - 3 3
S-11
SCALE: 1/2" = 1'-0"



FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

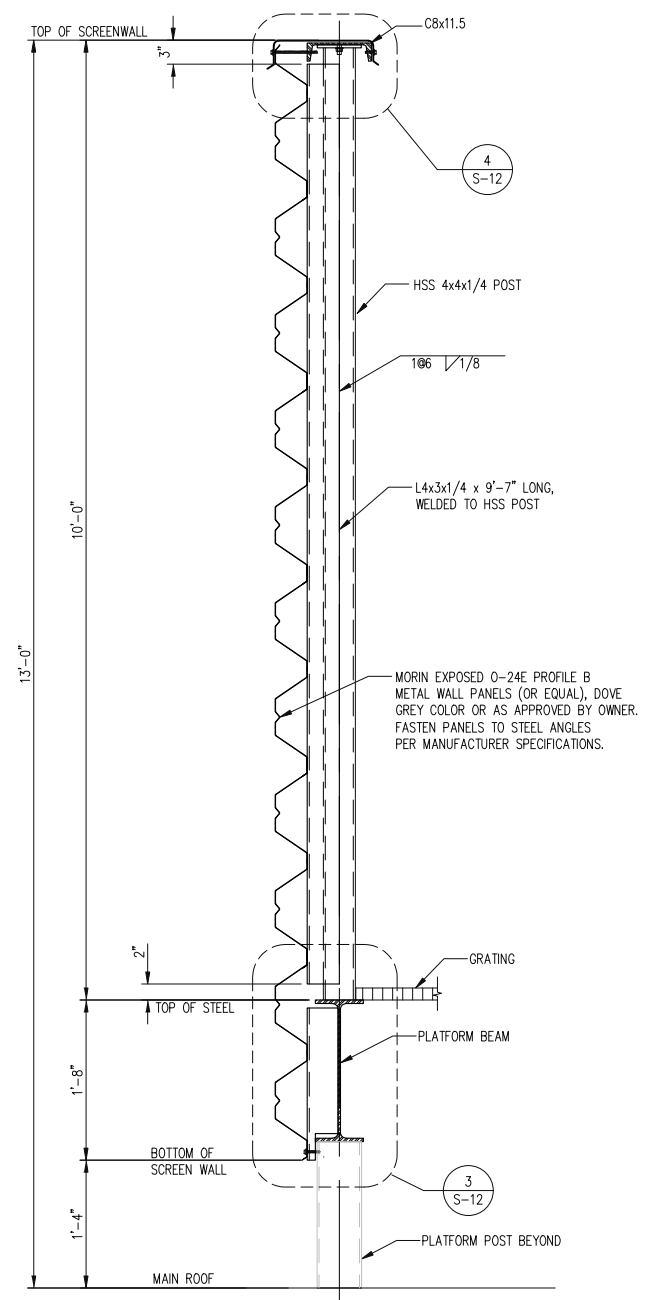
SUBMITTALS

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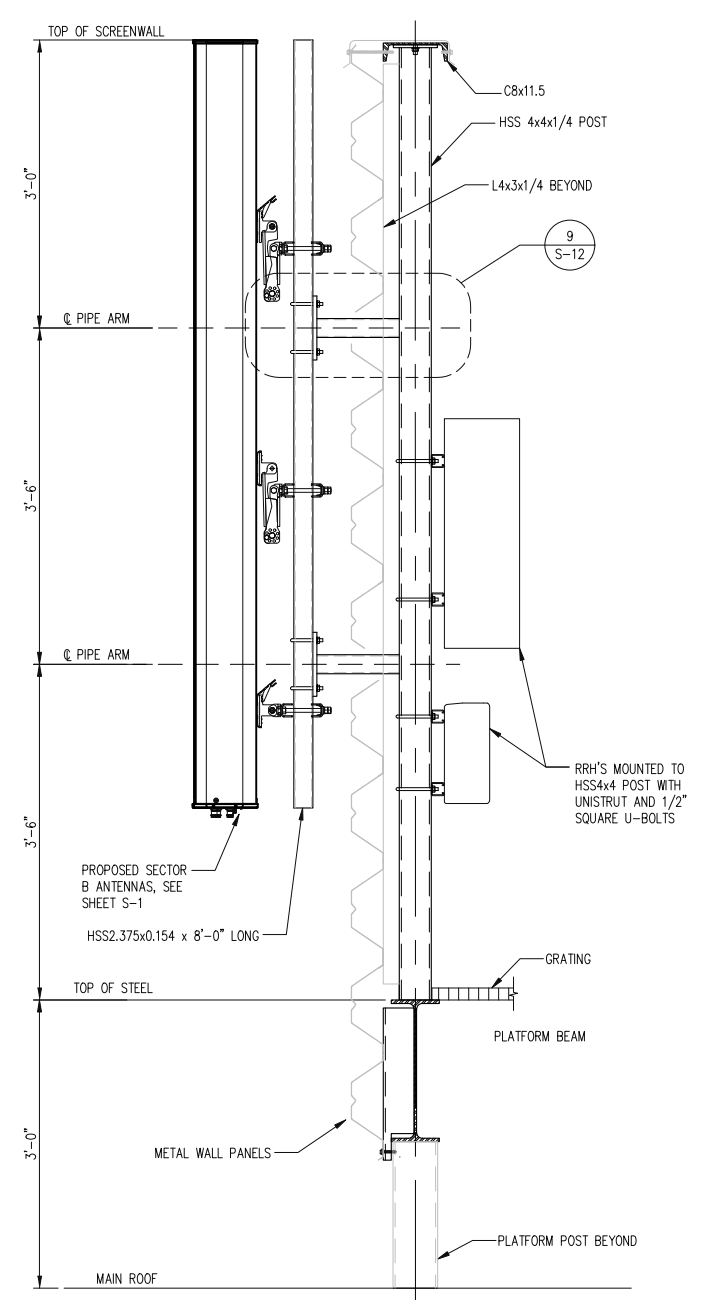
PROJECT NO: 1152.492
DESIGNER: TMF
ENGINEER: C.S.
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0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:
PLATFORM WALL ELEVATIONS

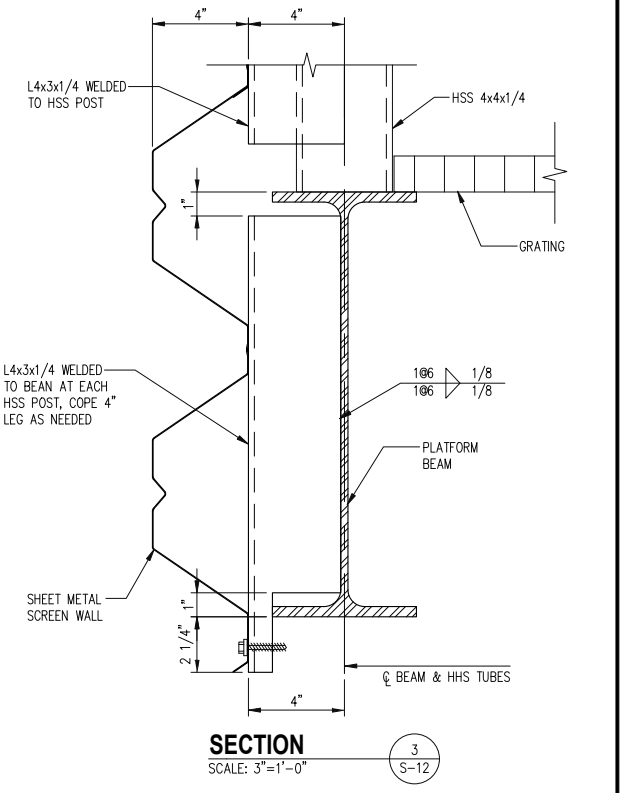
SHEET NUMBER:
S-11



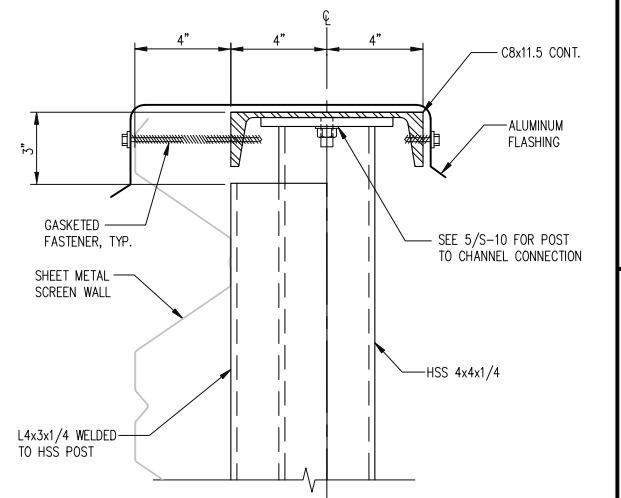
SCREEN WALL SECTION
SCALE: 1"=1'-0"



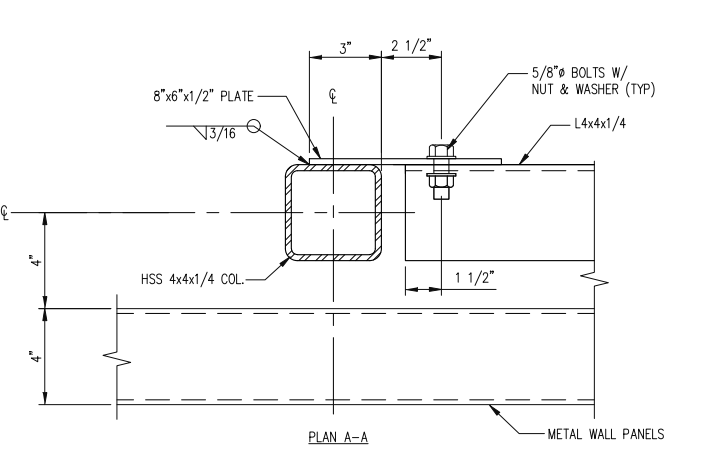
ANTENNA SUPPORT SECTION
SCALE: 1"=1'-0"



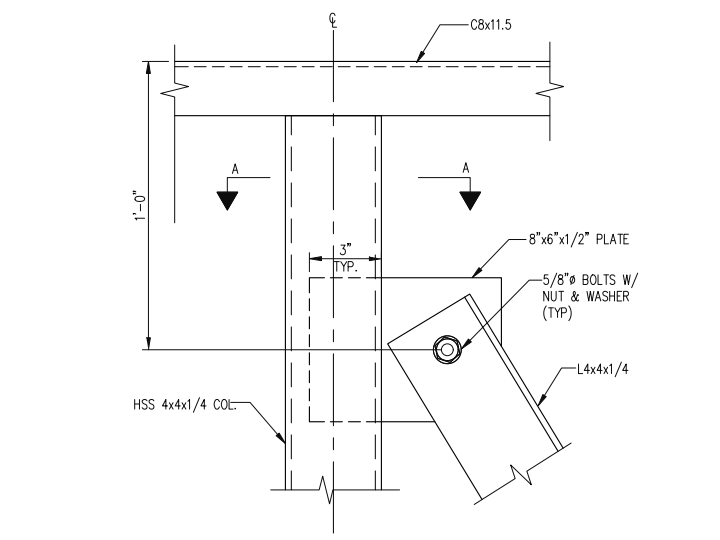
SECTION
SCALE: 3"=1'-0"



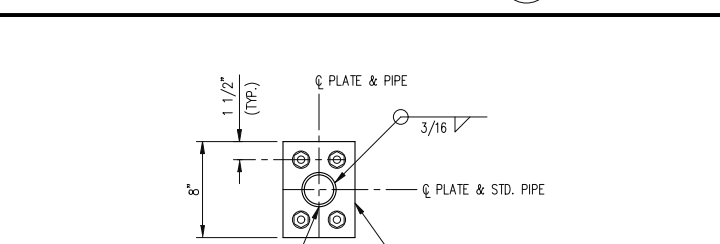
SECTION
SCALE: 3"=1'-0"



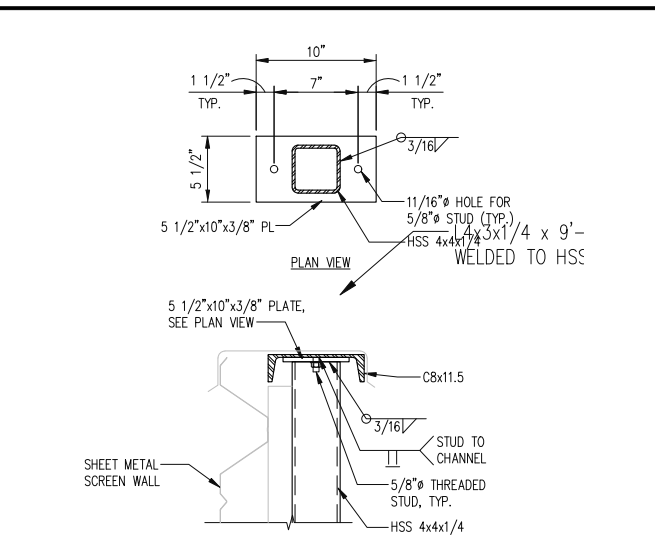
PLAN A-A



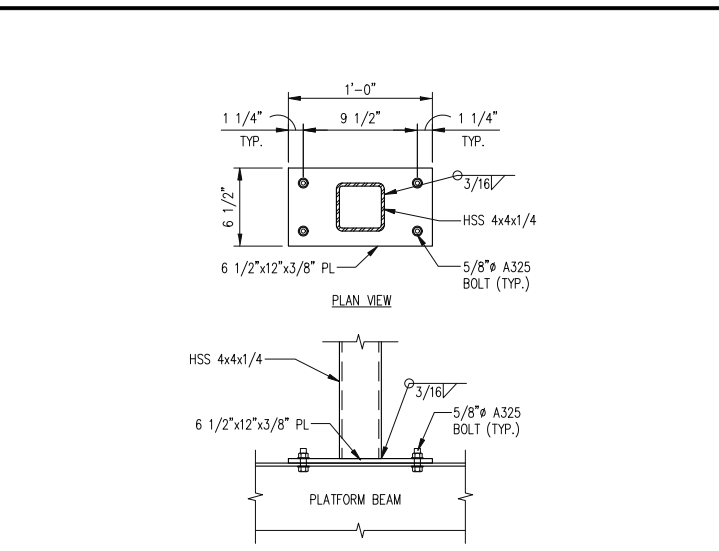
TYPICAL CONNECTION DETAIL
SCALE: 3"=1'-0"



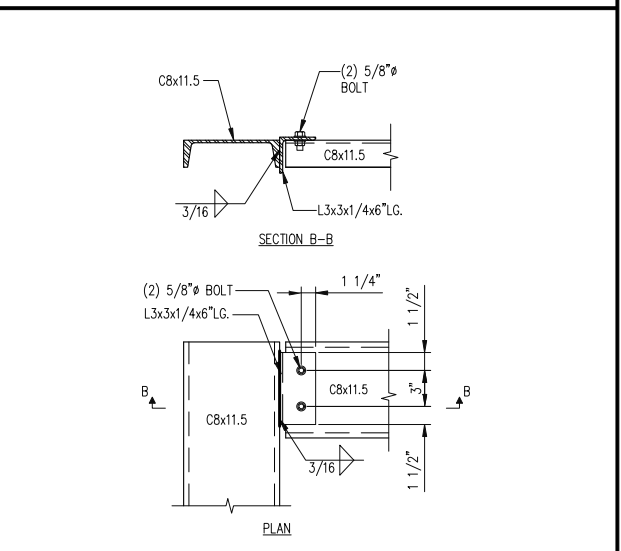
DETAIL C-C
SCALE: 1 1/2"=1'-0"



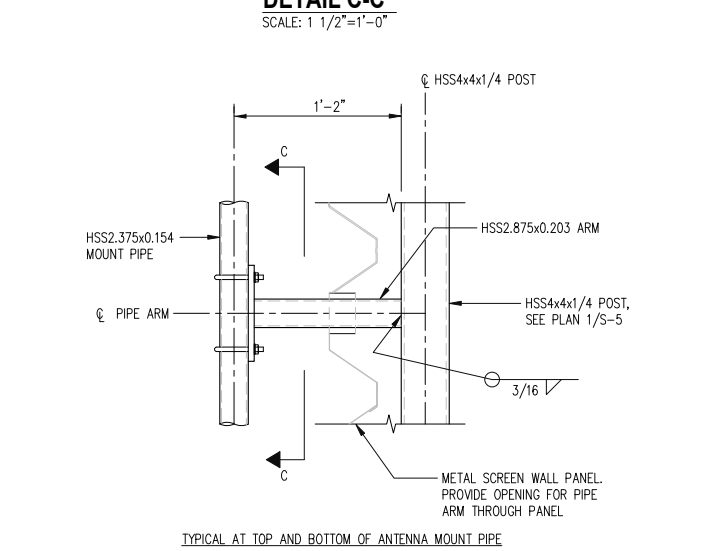
POST TO C8 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



POST TO BEAM CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



C8 TO C8 CONNECTION DETAIL
SCALE: 1-1/2"=1'-0"



ANTENNA PIPE TO HSS POST DETAIL
SCALE: 1-1/2"=1'-0"

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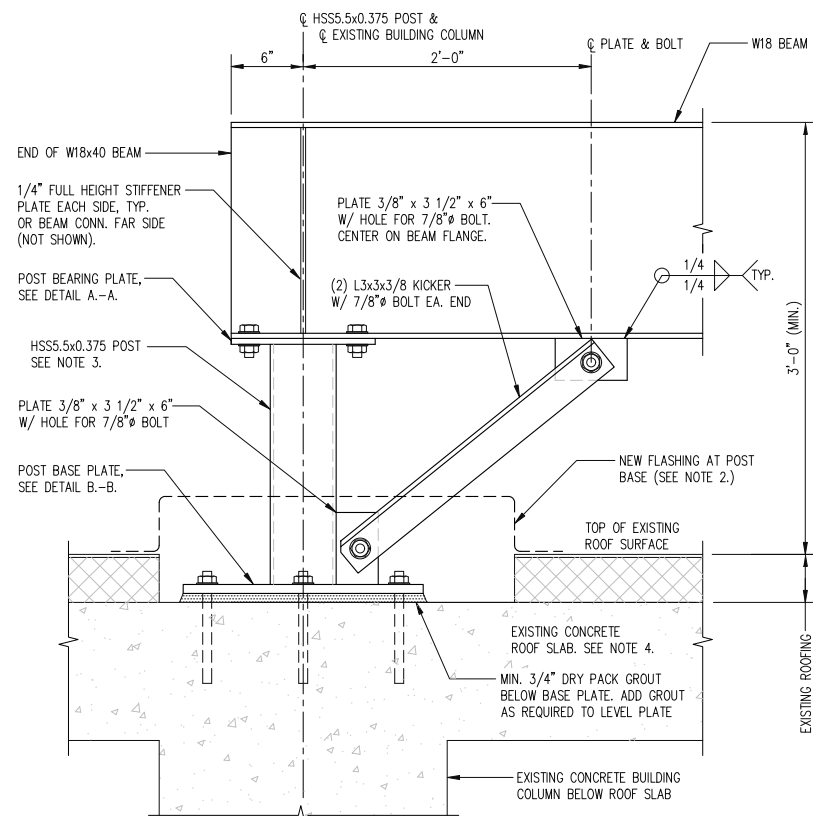
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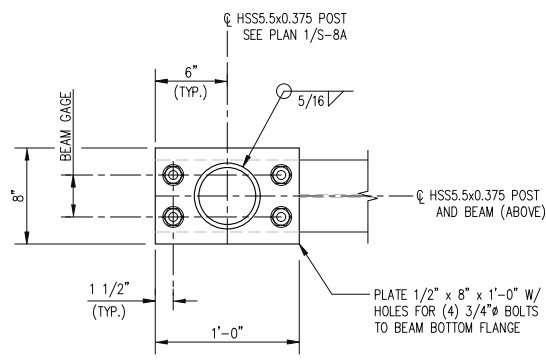
PROJECT NO: 1152.492
DESIGNER: A.H.
ENGINEER: C.S.
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0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:
PLATFORM SCREEN WALL DETAILS

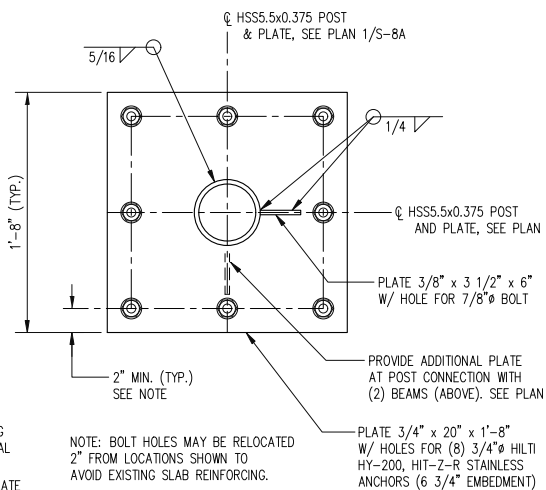
SHEET NUMBER:
S-12



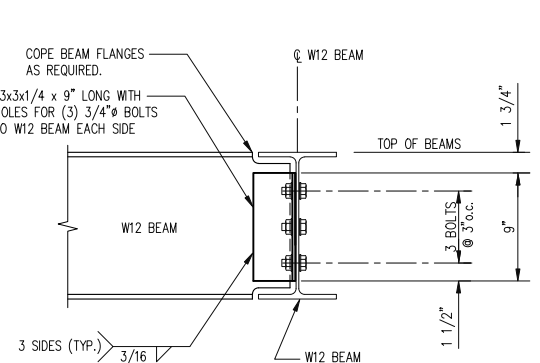
- NOTES:**
- VERIFY EXISTING CONDITION IN FIELD. CONTACT ENTREX FOR CONNECTION REVISIONS IF EXISTING STRUCTURE CONDITIONS ARE NOT AS SHOWN.
 - EXISTING AND PROPOSED WATER PROOFING IS NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE BUILDING OWNER'S ROOF CONTRACTOR WHO WILL COMPLETE ALL WORK ASSOCIATED WITH THE ROOF. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE BUILDING OWNER'S ROOF CONTRACTOR BEFORE INSTALLATION OF ANY ROOFING MATERIAL.
 - VERIFY DEPTH OF INSULATION AT POST LOCATION, AND FIELD CUT LENGTH OF POST AS NEEDED. POST SHALL BE FIELD WELDED TO BASE PLATE AFTER REQUIRED PIPE LENGTH HAS BEEN DETERMINED. THE FIELD WELDING CAN BE DONE AT GROUND LEVEL TO AVOID WELDING ON ROOF.
 - ROOFTOP CONSTRUCTION IS REINFORCED CONCRETE SLAB. CONTRACTOR SHALL LOCATE EXISTING REINFORCING STEEL PRIOR TO DRILLING BY BEST AVAILABLE MEANS (GPR, X-RAY, ETC.) BASE PLATE ANCHORS SHALL BE LOCATED IN ORDER TO AVOID REINFORCING STEEL WHICH SHALL NOT BE CUT. COORDINATE WITH DETAIL B.-B.



DETAIL A.-A.

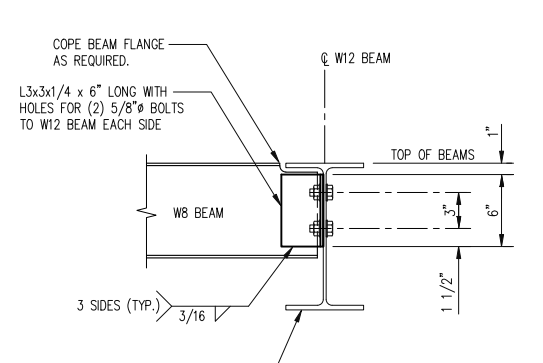


DETAIL B.-B.



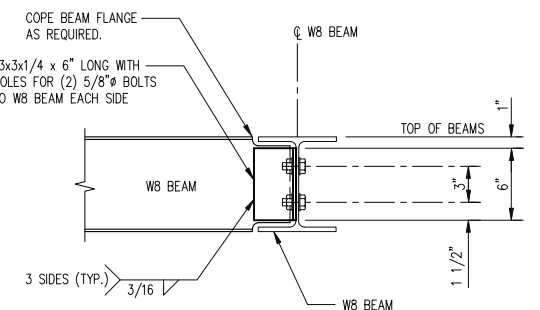
W12 TO W12 BEAM CONNECTION DETAIL

3
S-13



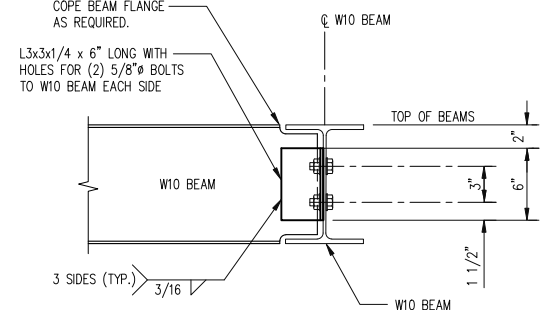
W8 TO W12 BEAM CONNECTION DETAIL

4
S-13



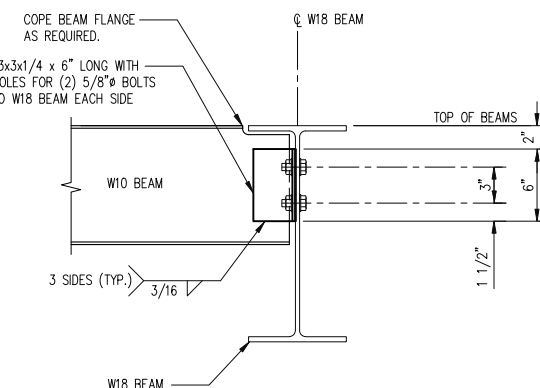
W8 TO W8 BEAM CONNECTION DETAIL

5
S-13



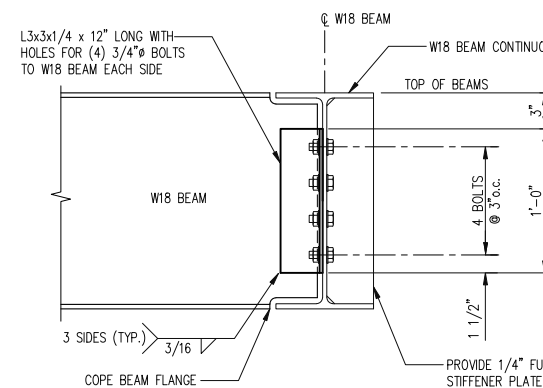
W10 TO W10 BEAM CONNECTION DETAIL

6
S-13



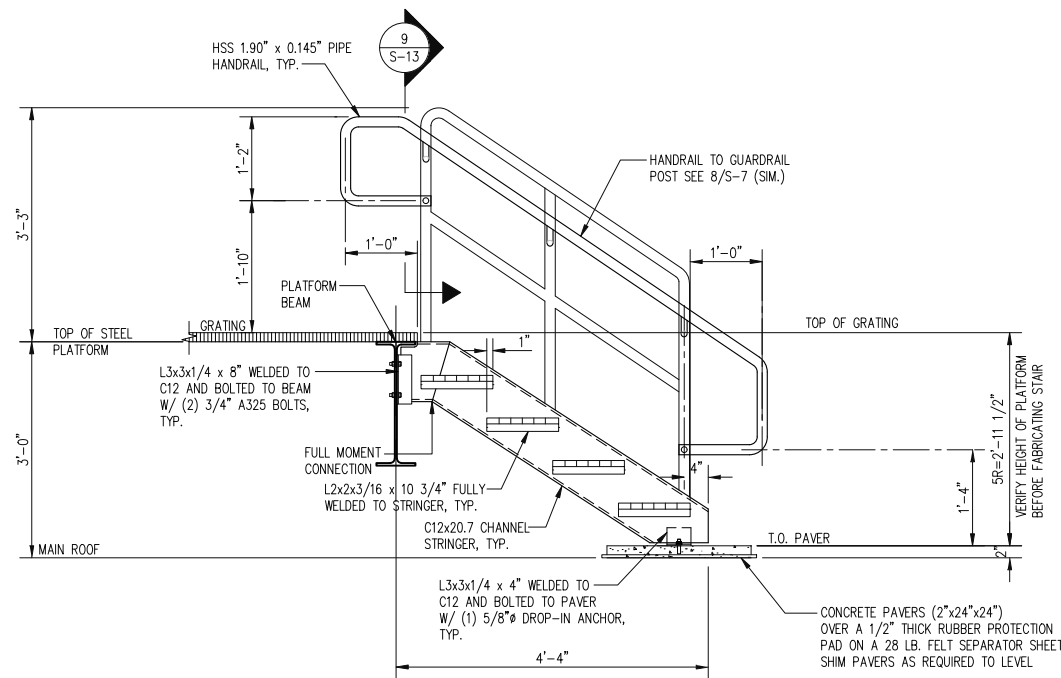
W10 TO W18 BEAM CONNECTION DETAIL

7
S-13



W18 TO W18 BEAM CONNECTION DETAIL

8
S-13



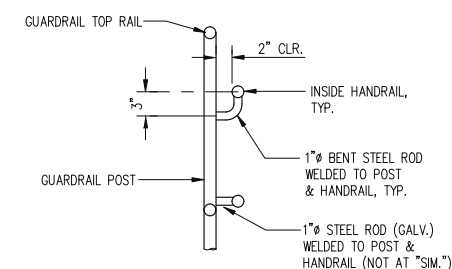
TYPICAL STEEL STAIR NOTES:

- POSTS TO BE CENTERED ON THE TOP FLANGE OF CHANNEL OR STRINGER, TYP.
- ALL RAIL TO POST INTERSECTIONS AND POST TO STRINGER TO BE FULLY WELDED 3/16" FILLET WELD ALL AROUND, GROUND SMOOTH. RAIL ENDS WHERE EXPOSED, TO BE CAPPED AND FULLY WELDED.
- CLEAN WELDED AREAS WITH POWER TOOL AND PAINT WITH 2 LAYERS OF GALVANIC PAINT, TYP.

STEEL STAIR DETAIL

SCALE: 3/4"=1'-0"

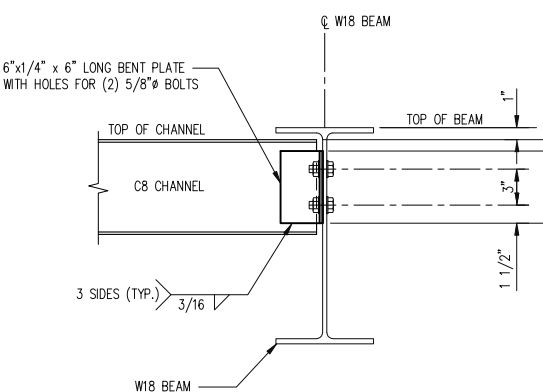
2
S-13



STAIR HANDRAIL DETAIL

SCALE: 1"=1'-0"

9
S-13



C8 TO W18 BEAM CONNECTION DETAIL

SCALE: 1 1/2"=1'-0"

10
S-13



FA NUMBER: 12775856
SITE ID: 6100
SITE NAME: BEAUMEADE
2553 DULLES VIEW DR
HERNDON, VA 20171

SEAL:

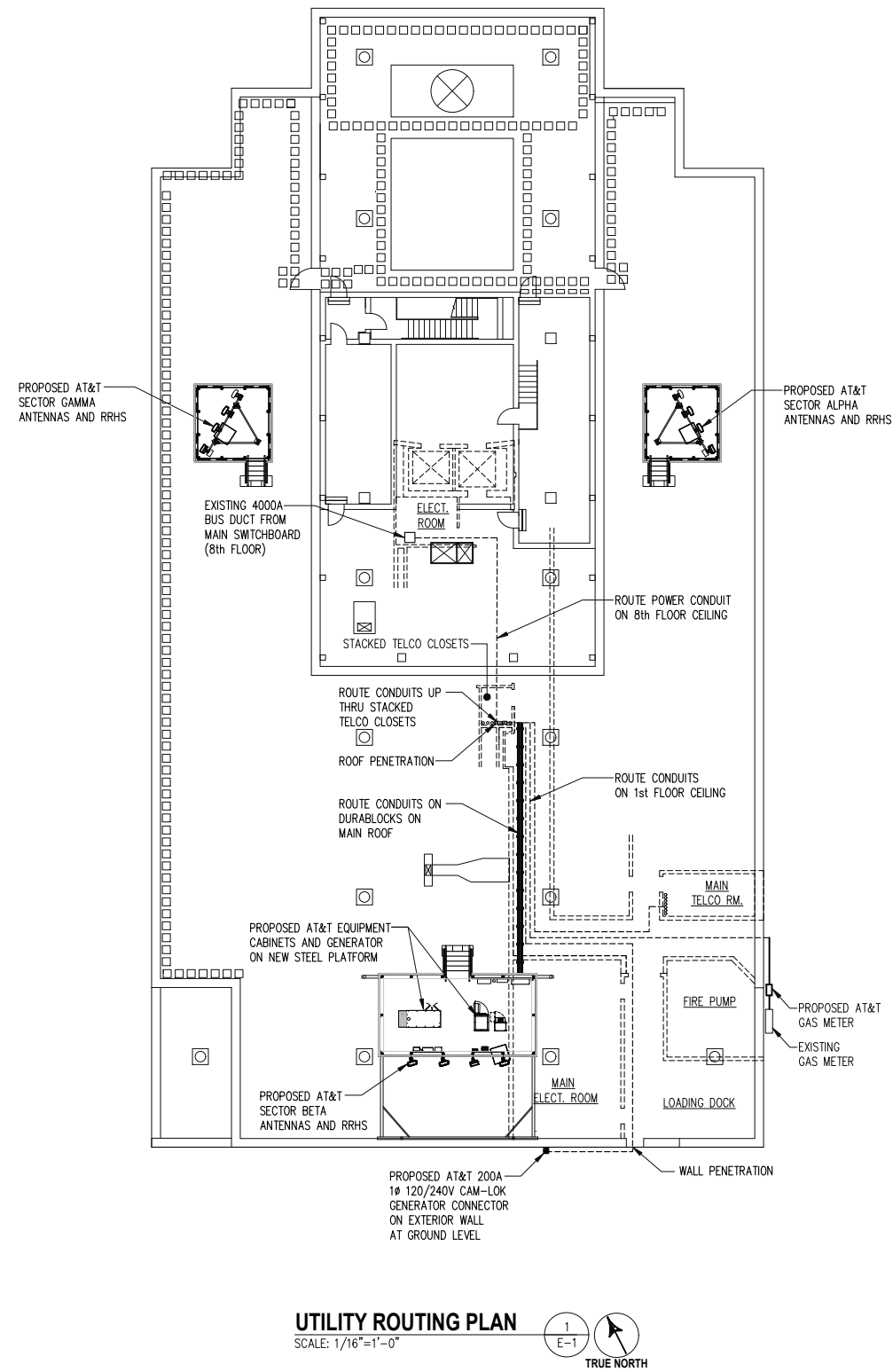
SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492
DESIGNER: TMF
ENGINEER: C.S.
THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

STEEL PLATFORM STRUCTURAL DETAILS

SHEET NUMBER:
S-13



UTILITY ROUTING PLAN
SCALE: 1/16"=1'-0"



PROPOSED AT&T PANEL									
DESCRIPTION	120/240 VOLTS		1 PHASE		3 WIRE		200 AMP		MCB
	VA	B K R	C K T	Ø A	Ø B	C K T	B K R	VA	
RECTIFIER 1&2	1440	30	1	1620		2	15	180	GFCI
	1440		3	1560		4	20	120	LIGHTS
RECTIFIER 3&4	1440	30	5	2440		6	20	1000	GENERATOR BLOCK HEATER
	1440		7	1690		8	20	250	GENERATOR BATTERY CHARGER
RECTIFIER 5&6	1440	30	9	1440		10			SPACE
	1440		11	1440		12			SPACE
RECTIFIER 7&8	1440	30	13	1440		14			SPACE
	1440		15	1440		16			SPACE
RECTIFIER 9&10	1440	30	17	1440		18			SPACE
	1440		19	1440		20			SPACE
RECTIFIER 11&12	1440	30	21	1440		22			SPACE
	1440		23	1440		24			SPACE
RECTIFIER 13&14	1440	30	25	1440		26			SPACE
	1440		27	1440		28			SPACE
SPARE		30	29			30			SPACE
			31			32			SPACE
SPACE			33			34			SPACE
SPACE			35			36			SPACE
SPACE			37			38			SPACE
SPACE			39			40			SPACE
PHASE TOTALS:			11260	10450	TOTAL VA:		21710		

PANELBOARD CAPACITY: 48 kVA
 PANELBOARD CONNECTED LOAD: 21.71 kVA
 DEMAND LOAD: 21.71 kVA x 1.25 = 27.14 kVA
 THE CONNECTED LOAD DOES NOT EXCEED THE PANELBOARD'S CAPACITY.

POSITION	DESCRIPTION	-48V BUS	POSITION	DESCRIPTION	-48V BUS
1	AIRSCALE RRH 4T4R B12/14/29 370W AHLBBA		1	FLEX21	
2	AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB		2	FLEX21	
3	AIRSCALE RRH 4T4R B5 160W AHCA		3		
4	AIRSCALE 200W AEQK		4	AIRSCALE RRH 4T4R B12/14/29 370W AHLBBA	
5	AIRSCALE 200W AEQU		5	AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB	
6			6	AIRSCALE RRH 4T4R B5 160W AHCA	
7	AIRSCALE RRH 4T4R B12/14/29 370W AHLBBA		7	AIRSCALE 200W AEQK	
8	AIRSCALE DUAL RRH 4T4R B25/66 320W AHFIB		8	AIRSCALE 200W AEQU	
9	AIRSCALE RRH 4T4R B5 160W AHCA		9		
10	AIRSCALE 200W AEQK		10		
11	AIRSCALE 200W AEQU		11		
12			12		
13			13		
14			14		
15			15		
16			16		
17			17		
18	SAID		18		
19	SAID		19		
20	TRANSPORT NID		20		
21	FSM4		21		
22	FSM4		22		
23	FSM4		23		
24	FSM4		24		

DC POWER BREAKER SCHEDULE
SCALE: N.T.S.



FA NUMBER: 12775856
 SITE ID: 6100
 SITE NAME: BEAUMEADE
 2553 DULLES VIEW DR
 HERNDON, VA 20171

SEAL:

SUBMITTALS		
DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

PROJECT NO: 1152.492
 DESIGNER: N.B.
 ENGINEER: C.S.
 THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
 0 1/2 1
 GRAPHIC SCALE IN INCHES

TITLE:
UTILITY ROUTING PLAN AND SCHEDULES

SHEET NUMBER:
E-1

SEAL:

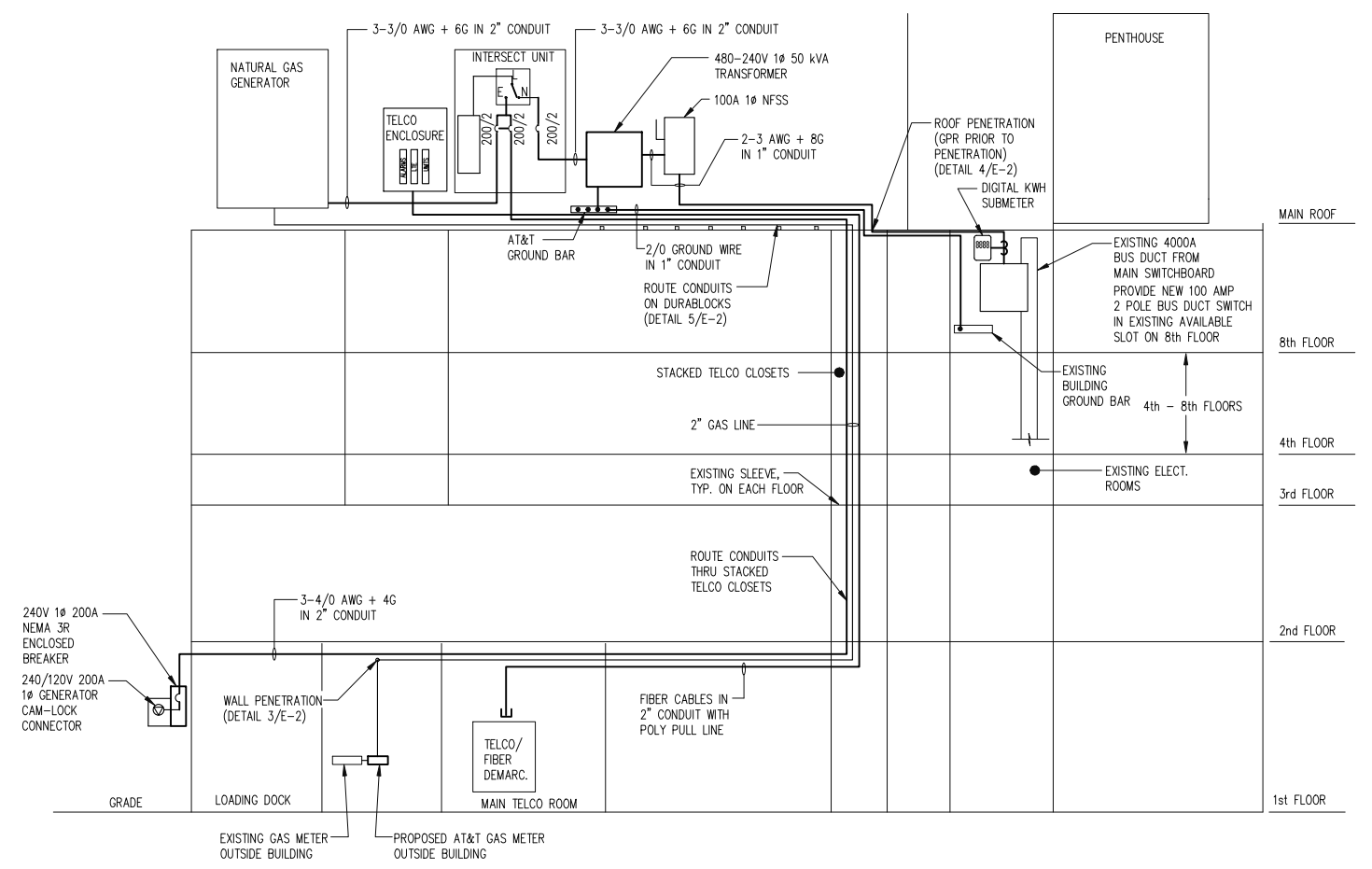
SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

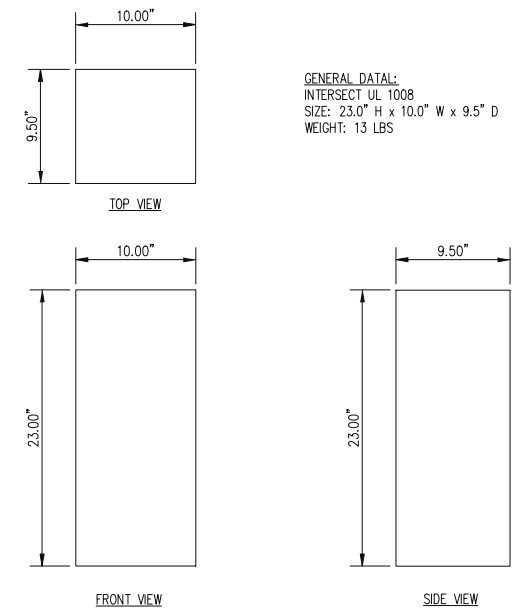
PROJECT NO: 1152.492
DESIGNER: N.B.
ENGINEER: C.S.
THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

ELECTRICAL DIAGRAM AND DETAILS

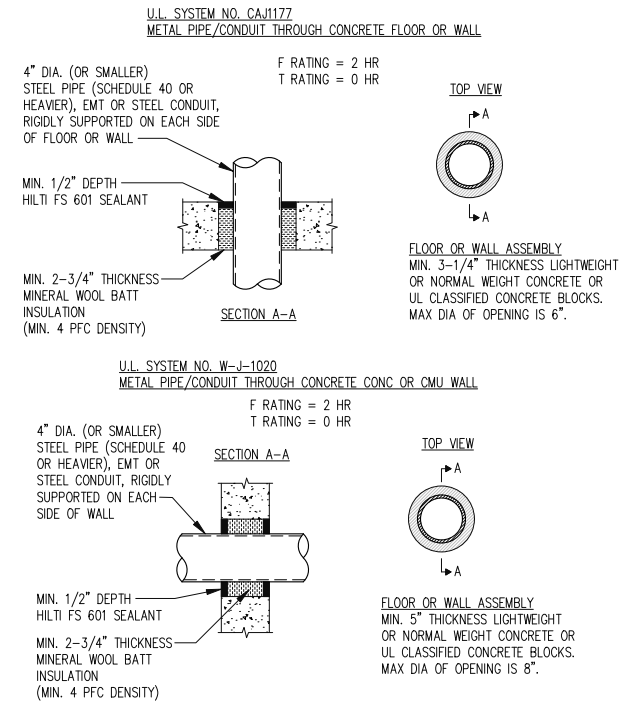
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E-2



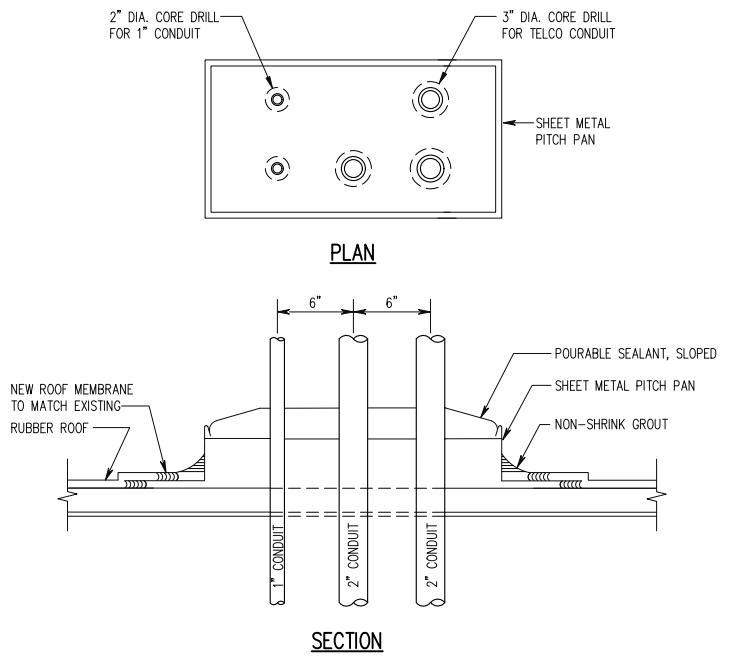
UTILITY RISER DIAGRAM
SCALE: N.T.S. 1 E-2



INTERSECT CAM-LOCK GENERATOR CONNECTOR
SCALE: 1-1/2" = 1'-0" 2 E-2



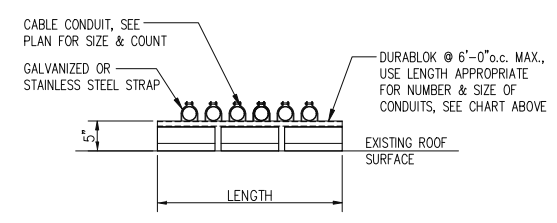
FLOOR/WALL PENETRATION DETAIL (TYPICAL)
SCALE: N.T.S. 3 E-2



ROOF PENETRATION DETAIL
SCALE: 1 1/2" = 1'-0" 4 E-2

DURABLOCK DB SERIES LENGTH CHART

PART NUMBER	LENGTH
DB5	4.8"
DB10	9.6"
DB20	20.2"



CONDUIT SUPPORT DETAIL
SCALE: 3/4" = 1'-0" 5 E-2

SEAL:

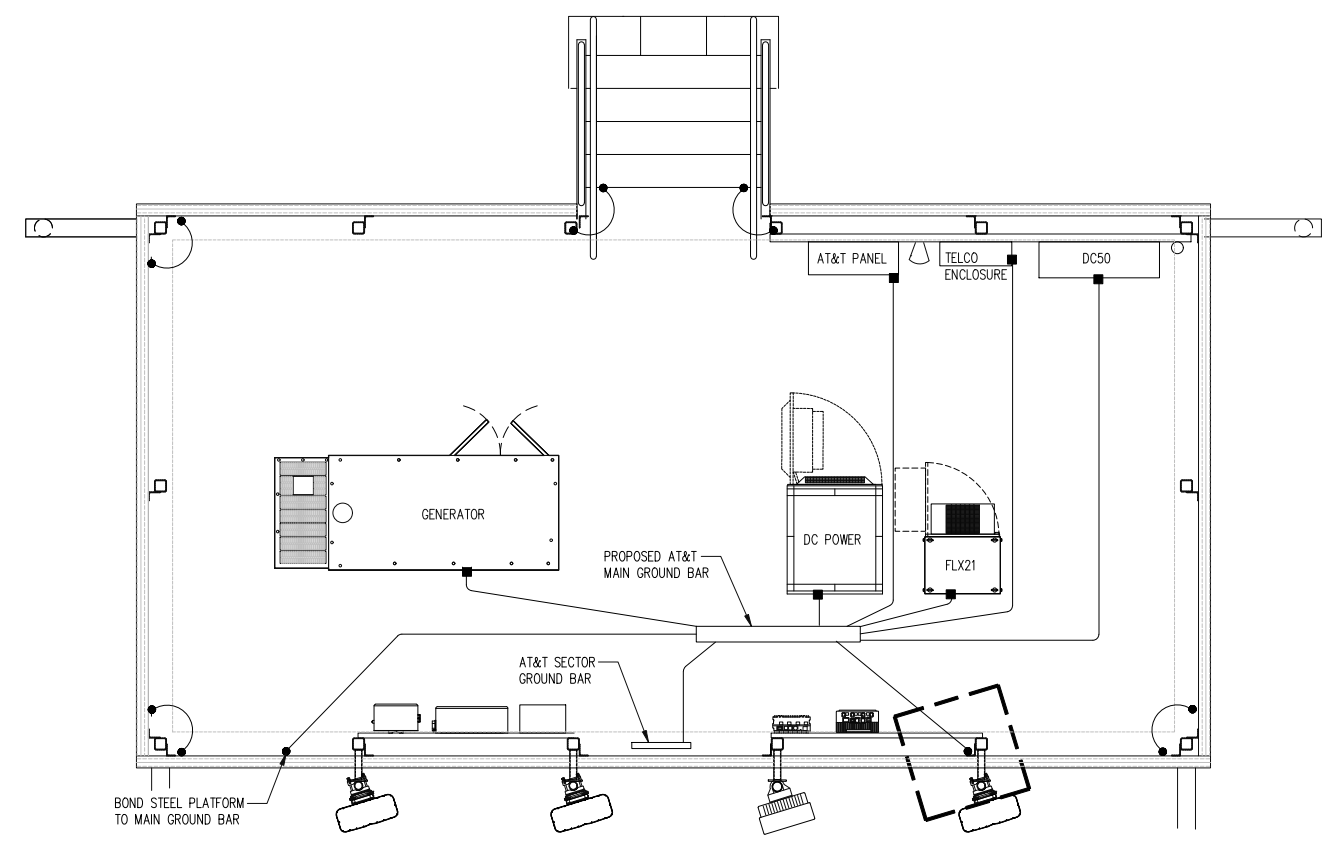
SUBMITTALS

DATE	DESCRIPTION	REV.
12-01-2022	CONSTRUCTION REVIEW	A

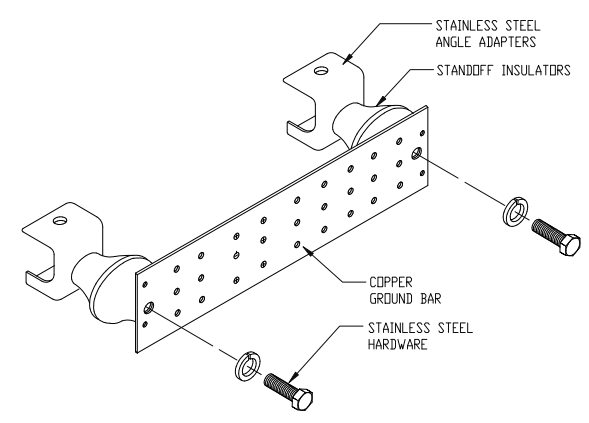
PROJECT NO: 1152.492
DESIGNER: N.B.
ENGINEER: C.S.
THESE DRAWINGS ARE FORMATTED TO BE FULL-SIZE AT 22"x34"
0 1/2 1
GRAPHIC SCALE IN INCHES

TITLE:
**GROUNDING PLAN,
DIAGRAM
AND DETAILS**

SHEET NUMBER:
E-3

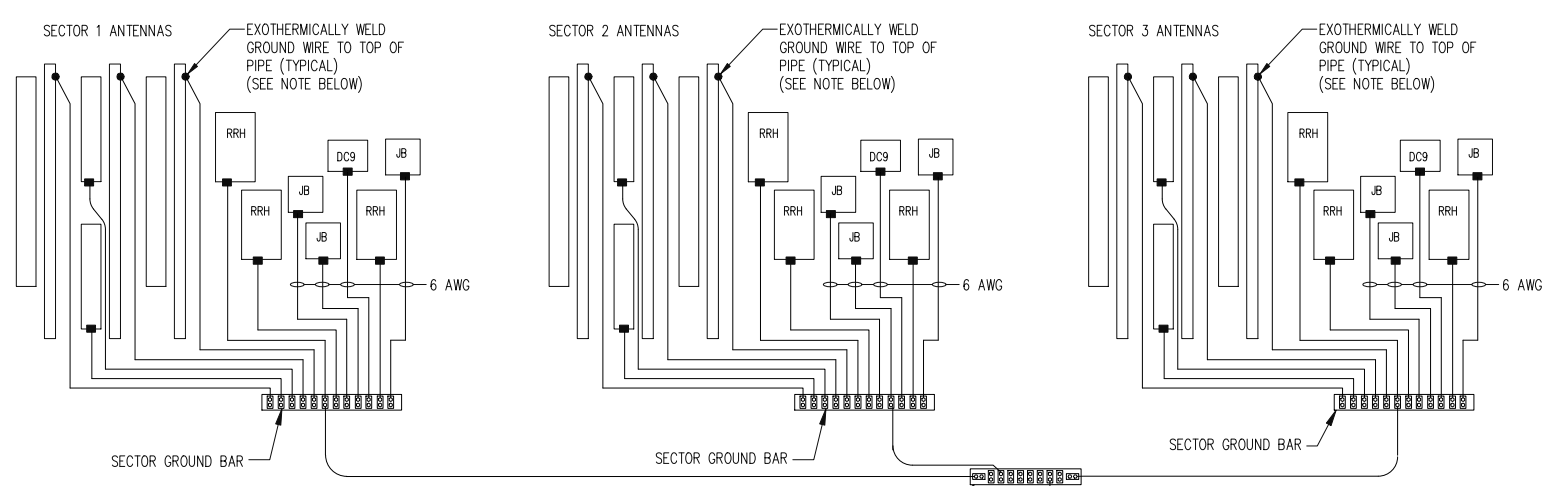


NOTE:
ALL GROUND WIRES SHOWN ARE 2 AWG GREEN-INSULATED UNLESS NOTED OTHERWISE.
EQUIPMENT GROUNDING PLAN
SCALE: 3/8"=1'-0"
1
E-3
TRUE NORTH



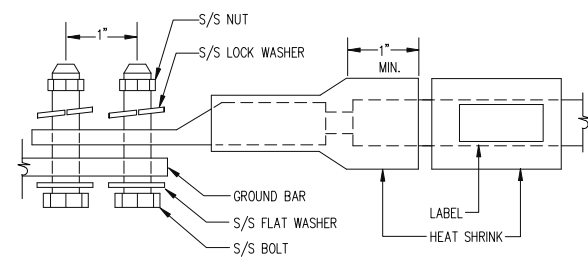
1. CELL REFERENCE COPPER GROUND BAR, 1/4"x 4"x 20" MOUNTED TO PLATFORM STEEL WITH ANGLE ADAPTERS.
2. SECTOR COPPER GROUND BAR, 1/4"x 4"x 12" MOUNTED TO SLED MOUNT ANGLES WITH ANGLE ADAPTERS.

GROUND BAR ISOMETRIC
SCALE: N.T.S.
3
E-3



- GROUNDING LEGEND**
- GREEN-INSULATED 2 AWG STRANDED COPPER WIRE
 - GROUND ROD
 - EXOTHERMIC WELD BONDING CONNECTION
 - MECHANICAL COMPRESSION BONDING CONNECTION

NOTE:
EXOTHERMIC WELD BONDING CONNECTION SHOULD BE COMPLETED AT GRADE LEVEL.
EQUIPMENT GROUNDING DETAIL
SCALE: 1"=1'-0"
2
E-3



- LUG NOTES:**
1. ALL HARDWARE IS 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS.
 2. ALL HARDWARE SHALL BE S/S 3/8-INCH DIAMETER OR LARGER.
 3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON-TOOTH WASHER BETWEEN LUG AND STEEL AND COAT ALL SURFACES WITH ANTI-OXIDIZATION COMPOUND PRIOR TO MATING.

LUG DETAIL
SCALE: TO SCALE
4
E-3