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April 17, 2019

VIA FEDERAL EXPRESS

Melanie A. Bachman, Esq., Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC (AT&T)
Docket No. 463A
2 Arbor Crossing
East Lyme, Connecticut
Certificate Transfer, Notice of Intent to Commence Construction &
Request for Extension of Time

Dear Ms. Bachman:

We are writing on behalf of New Cingular Wireless PCS, LLC (“AT&T”) with respect to Docket 463A.

The purpose of our letter is to provide the Council with notice in accordance with the Council’s Decision & Order (“463A D&O”) of an intent to commence construction of the facility, seek an extension of time for completion of construction of the facility currently set to expire July 1, 2019, and authorization to transfer the Certificate issued by the Council in Docket 463A.

1) 463A D&O Condition No. 10 – Notification of Intent to Commence Construction

The Development & Management Plan for the Facility issued a Certificate in Docket 463A was previously approved by the Council in June 2017. A Town of East Lyme building permit was obtained by AT&T in 2018, a copy of which is enclosed.

AT&T has been coordinating with several parties over the course of the past year, including the property owners and utility companies, with respect to construction of the Facility as approved in Docket 463A. Additionally, it is anticipated that the property owner will conduct site preparation work in accordance with its ongoing development of the surrounding residential community.

Enclosed for the Council’s files are a full set of the latest construction drawings for the Facility, last revised May 17, 2018. These drawings are compliant with the 463A D&O and D&M Plan approvals and you will note that the equipment barn has had a small architectural cupola added



to it since the set approved by the Council in 2017. Additionally, they incorporate details for a 80kw shared generator.

2) 463A D&O Conditions No. 6 and 7 – Extension of Time to Complete Construction

The current deadline for completion of construction as extended by the Council is July 1, 2019. In order to construct the new Facility and make it operational prior to removal of the existing tower facility, the Certificate holder requests a further one-year extension of time to July 1, 2020. This request is being timely made in furtherance of Conditions 6 and 7 of the Council's 463A D&O.

3) Transfer of the Certificate Request - AT&T to TowerCo

AT&T has agreed to assign its ground lease and transfer the Certificate issued by the Council in Docket 463A to TowerCo 2013 LLC ("TowerCo"). AT&T will be subleasing space back from TowerCo for its specific wireless facility. TowerCo will be the party responsible for ensuring construction, operation and maintenance of the Facility approved and issued a Certificate in Docket 463A. TowerCo is a national tower company and more information can be found about the company on its website <http://www.towerco.com/simplicityfound/>. The parties executed the enclosed Certificate Transfer Request on April 10th and 11th of this year. Neither party contemplated this transaction at the time of the Certificate issuance in Docket 463A.

We would respectfully request confirmation of receipt of AT&T's notice of intent to commence construction and approval of a one year extension of time to complete same along with transfer of the Certificate in Docket 463A from AT&T to TowerCo. Thank you for your assistance and consideration of the foregoing, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in blue ink, appearing to read "CB Fisher", is written over the typed name. The signature is fluid and cursive in style.

Christopher B. Fisher

Cc: Parties and Intervenors
AT&T
TowerCo

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

REQUEST BY NEW CINGULAR WIRELESS PCS, LLC)
TO TRANSFER THE CERTIFICATE FOR) APRIL ____, 2019
THE TOWER FACILITY APPROVED IN DOCKET 463A)
TO TOWERCO, LLC)

CERTIFICATE TRANSFER REQUEST

Pursuant to Section 16-50k(b) of the Connecticut General Statutes, New Cingular Wireless PCS, LLC (AT&T) hereby requests that the Connecticut Siting Council approve the transfer of the Certificate of Environmental Compatibility and Public Need in Docket 463A (the "Certificate"), from AT&T to TowerCo 2013 LLC ("TowerCo").

AT&T has agreed to convey the Certificate to TowerCo. The Parties agreed upon a transfer of this certificate on or about _____, 2019. TowerCo maintains its Corporate Headquarters at 5000 Vallyestone Drive, Suite 200, Cary NC 27519. TowerCo will construct, own, operate and maintain the tower facility with AT&T subleasing space for its equipment.

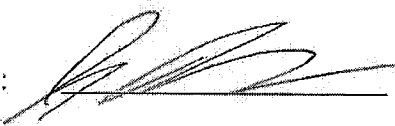
By countersigning this certificate transfer request and in accordance with Section 16-50k(b) of the Connecticut General Statutes, TowerCo agrees to comply with all terms, limitations, and conditions of the Certificate and all applicable statutes and regulations, and represents that it is technically and financially capable of constructing, owning, operating and maintaining the tower facility as approved in Docket 463A.

In addition, the Parties further certify that the transfer of the Certificate was not contemplated at or prior to the time the Certificate was originally issued to AT&T. TowerCo agrees to the timely payment of any apportioned assessment charges for the noted facilities as provided under Connecticut General Statute Sec. 16-50v(b)(2).

New Cingular Wireless, PCS LLC hereby requests transfer of the Certificate issued in Docket 463A to TowerCo, LLC.

New Cingular Wireless PCS, LLC

TowerCo 2013 LLC

By: 

By: 

Name: Jessica Rincon

Name: Jason Catalini

Title: Area Manager

Title: V.P. Real Estate

Date: 4/11/19

Date: 4/10/2019



WIRELESS COMMUNICATIONS FACILITY

CT1345 EAST LYME RELO.

THE ORCHARDS

2 ARBOR CROSSING

EAST LYME, CT 06333

PROJECT SCOPE

- THE SCOPE OF WORK SHALL INCLUDE:
1. THE CONSTRUCTION OF A 35'x50' BARN STYLED EQUIPMENT BUILDING FOR MULTIPLE CARRIERS, A SHARED GENERATOR AND UTILITY EQUIPMENT.
 2. A TOTAL OF TWELVE (12) DIRECTIONAL PANEL ANTENNAS ARE PROPOSED TO BE MOUNTED AT A CENTERLINE ELEVATION OF 95'-0"± AGL WITHIN A 105'-0"± PROPOSED FAUX SILO ANTENNA CONCEALMENT ENCLOSURE.
 3. POWER AND TELCO UTILITIES SHALL BE ROUTED UNDERGROUND FROM EXISTING RESPECTIVE DEMARCS TO THE PROPOSED UTILITY BACKBOARD LOCATED WITHIN THE PROPOSED FAUX BARN. FINAL DEMARC LOCATION AND UTILITY ROUTING TO PROPOSED BACKBOARD WILL BE VERIFIED/DETERMINED BY LOCAL UTILITY COMPANIES.

PROJECT INFORMATION

SITE NAME: EAST LYME RELO. THE ORCHARDS
SITE ADDRESS: 2 ARBOR CROSSING
 EAST LYME, CT 06333

PROPERTY OWNER: ORCHARDS AT EAST LYME INC.
 C/O VISION MANAGEMENT LLC
 PO BOX 55071 #16230
 BOSTON, MA 02205

LESSEE/TENANT: AT&T MOBILITY
 500 ENTERPRISE DRIVE, SUITE 3A
 ROCKY HILL, CT 06067

CONTACT PERSON: DAN BILEZIKIAN
 SAI COMMUNICATIONS
 (401) 368-0006

ENGINEER: CENTEK ENGINEERING
 63-2 NORTH BRANFORD ROAD,
 BRANFORD, CT 06405
 (203) 488-0580

TOWER COORDINATES: LATITUDE: 41°-21'-58.60"
 LONGITUDE: 72°-14'-32.47"
 GROUND ELEVATION: 333.5± A.M.S.L.

COORDINATES AND GROUND ELEVATION REFERENCED FROM GOOGLE EARTH PRO.

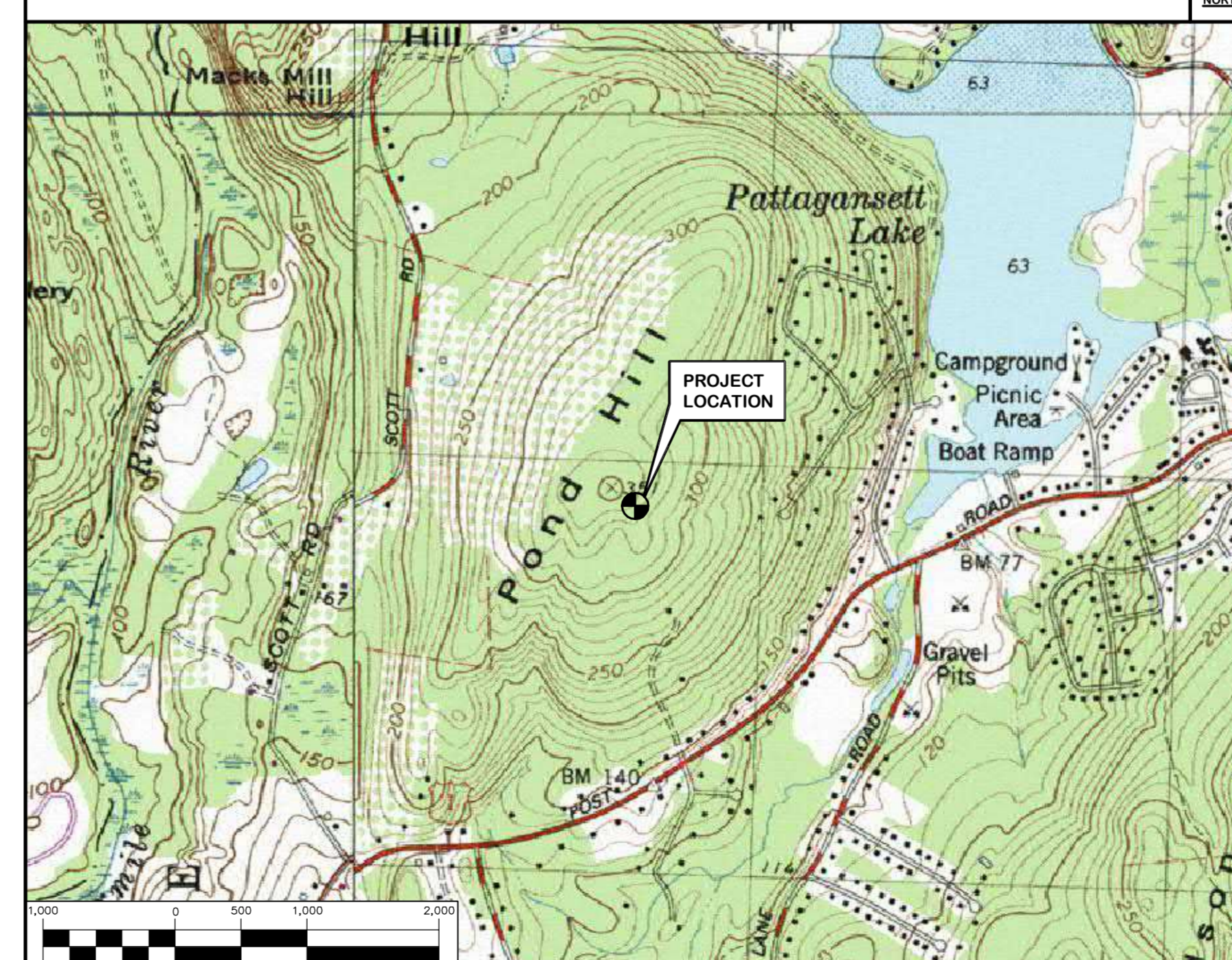
GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE AS MODIFIED BY THE 2016 CONNECTICUT SUPPLEMENT, INCLUDING THE ANSI/TIA-222 REVISION "G" "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND SUPPORTING STRUCTURES." 2016 CONNECTICUT FIRE SAFETY CODE, AND NATIONAL ELECTRICAL CODE AND LOCAL CODES.
2. THE COMPOUND, TOWER, PRIMARY GROUND RING, ELECTRICAL SERVICE TO THE METER BANK AND TELEPHONE SERVICE TO THE DEMARCATION POINT ARE PROVIDED BY SITE OWNER. AS BUILT FIELD CONDITIONS REGARDING THESE ITEMS SHALL BE CONFIRMED BY THE CONTRACTOR. SHOULD ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
3. CONTRACTOR SHALL REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUBCONTRACTORS AND ALL RELATED PARTIES. THE SUBCONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
4. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON THE DRAWINGS OR IN THE WRITTEN SPECIFICATIONS.
5. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB ALL IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
6. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND ALL INSPECTIONS REQUIRED AND SHALL ALSO PAY FEES REQUIRED FOR THE GENERAL CONSTRUCTION, PLUMBING, ELECTRICAL AND HVAC. PERMITS SHALL BE PAID FOR BY THE RESPECTIVE SUBCONTRACTORS.
7. CONTRACTOR SHALL MAINTAIN A CURRENT SET OF DRAWINGS AND SPECIFICATIONS ON SITE AT ALL TIMES AND INSURE DISTRIBUTION OF NEW DRAWINGS TO SUBCONTRACTORS AND OTHER RELEVANT PARTIES AS SOON AS THEY ARE MADE AVAILABLE. ALL OLD DRAWINGS SHALL BE MARKED VOID AND REMOVED FROM THE CONTRACT AREA. THE CONTRACTOR SHALL FURNISH AN "AS-BUILT" SET OF DRAWINGS TO OWNER UPON COMPLETION OF PROJECT.
8. LOCATION OF EQUIPMENT, AND WORK SUPPLIED BY OTHERS THAT IS DIAGRAMMATICALLY INDICATED ON THE DRAWINGS SHALL BE DETERMINED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE LOCATIONS AND DIMENSIONS SUBJECT TO STRUCTURAL CONDITIONS AND WORK OF THE SUBCONTRACTORS.
9. THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING BUILDING'S/PROPERTY'S OPERATIONS, COORDINATE WORK WITH BUILDING/PROPERTY OWNER.
10. DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
11. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
12. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER MFR.'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
13. ANY AND ALL ERRORS, DISCREPANCIES, AND "MISSED" ITEMS ARE TO BE BROUGHT TO THE ATTENTION OF THE AT&T CONSTRUCTION MANAGER DURING THE BIDDING PROCESS BY THE CONTRACTOR. ALL THESE ITEMS ARE TO BE INCLUDED IN THE BID. NO "EXTRA" WILL BE ALLOWED FOR MISSED ITEMS.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ON-SITE SAFETY FROM THE TIME THE JOB IS AWARDED UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER.
15. CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE CONSTRUCTION MANAGER FOR REVIEW.
16. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES, AND EXISTING CONDITIONS AT THE SITE, PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA.
17. COORDINATION, LAYOUT, FURNISHING AND INSTALLATION OF CONDUIT AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
18. ALL EQUIPMENT AND PRODUCTS PURCHASED ARE TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUBCONTRACTORS FOR ANY CONDITION PER THE MANUFACTURER'S RECOMMENDATIONS. CONTRACTOR TO SUPPLY THESE ITEMS AT NO COST TO OWNER OR CONSTRUCTION MANAGER.
19. ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
20. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS AT 1-800-922-4455. ALL UTILITIES SHALL BE IDENTIFIED AND CLEARLY MARKED PRIOR TO ANY EXCAVATION WORK. CONTRACTOR SHALL MAINTAIN AND PROTECT MARKED UTILITIES THROUGHOUT PROJECT COMPLETION.
21. CONTRACTOR SHALL COMPLY WITH OWNERS ENVIRONMENTAL ENGINEER ON ALL METHODS AND PROVISIONS FOR ALL EXCAVATION ACTIVITIES INCLUDING SOIL DISPOSAL. ALL BACKFILL MATERIALS TO BE PROVIDED BY THE CONTRACTOR.

SITE DIRECTIONS

FROM:	TO:
500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT	2 ARBOR CROSSING EAST LYME, CONNECTICUT
1. HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD	0.3 MI.
2. TURN LEFT ONTO CAPITAL BLVD	0.2 MI.
3. USE THE LEFT 2 LANES TO TURN LEFT ONTO STATE HWY 411	0.3 MI.
4. TURN LEFT TO MERGE ONTO I-91 S	0.3 MI.
5. MERGE ONTO I-91 S	1.2 MI.
6. USE THE LEFT LANE TO TAKE EXIT 22S TO MERGE ONTO CT-9 S TOWARD MIDDLETOWN/OLD SAYBROOK	29.2 MI.
7. USE THE LEFT 2 LANES TO MERGE ONTO I-95 N/US-1 N TOWARD NEW LONDON/PROVIDENCE	5.7 MI.
8. TAKE EXIT 71 FOR 4 MILE RIVER ROAD	0.3 MI.
9. TURN RIGHT ONTO 4 MILE RIVER RD	1.5 MI.
10. TURN RIGHT ONTO US-1 N	1.8 MI.
11. TURN LEFT ONTO PLUM HILL RD	0.4 MI.
12. TURN LEFT ONTO ARBOR CROSSING	0.3 MI.

VICINITY MAP



SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	△
N-1	GENERAL NOTES AND SPECIFICATIONS	0
B-1	BILL OF MATERIALS	△
C-1	ABUTTERS MAP	0
C-2	PARTIAL SITE PLAN	△
C-3	COMPOUND PLAN, ELEVATION & ANTENNA CONFIGURATION	△
C-4	SITE DETAILS	0
C-5	DRAINAGE CONTROL AND SITE DETAILS	4
C-6	EQUIPMENT ROOM PLANS	5
C-7	EQUIPMENT ROOM ELEVATIONS	6
S-1	SHELTER FOUNDATION PLAN AND DETAILS	△
S-2	SHELTER ROOF FRAMING PLAN AND DETAILS	2
M-1	SHELTER FOUNDATION PLAN AND DETAILS	0
M-2	SHELTER ROOF FRAMING PLAN AND DETAILS	0
M-3	SHELTER ROOF FRAMING PLAN AND DETAILS	0
E-1	SITE UTILITY PLAN	0
E-2	ELECTRICAL RISER DIAGRAM AND NOTES	0
E-3	SCHEMATIC RISER DIAGRAM AND NOTES	△
E-4	GROUNDING PLAN AND NOTES	△
E-5	ELECTRICAL FLOOR PLAN AND DETAILS	0
E-6	CABLE TRAY DETAILS AND NOTES	0
E-7	ELECTRICAL DETAILS	0
E-8	ELECTRICAL DETAILS	△
E-9	ELECTRICAL DETAILS	0
E-10	ELECTRICAL SPECIFICATIONS	0

NO.	DATE	BY	DESCRIPTION
7	05/17/18	KAWIR	CONSTRUCTION DRAWINGS - REVISED PER TOWERCO COMMENTS
6	05/02/18	CAG	CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
5	03/09/18	KAWIR	CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
4	12/04/17	CAG	CONSTRUCTION DRAWINGS - REVISED BARN STRUCTURE
3	10/20/17	CAG	CONSTRUCTION DRAWINGS - REVISED EQUIPMENT ROOM LAYOUT
2	05/03/17	KAWIR	CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
1	05/01/17	KAWIR	CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
0	04/27/17	KAW	CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING



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AT&T MOBILITY
 WIRELESS COMMUNICATIONS FACILITY
CT1345 EAST LYME RELO.
THE ORCHARDS
 2 ARBOR CROSSING
 EAST LYME, CT 06333

DATE: 03/07/17
 SCALE: AS NOTED
 JOB NO. 16024.00

TITLE SHEET

T-1
 Sheet No. 1 of 25

NOTES AND SPECIFICATIONS

DESIGN BASIS:

GOVERNING CODE: 2012 INTERNATIONAL BUILDING (IBC) AS MODIFIED BY THE 2016 CT STATE BUILDING CODE AND AMENDMENTS.

DESIGN CRITERIA:

- WIND LOAD: PER TIA 222 G (ANTENNA MOUNTS): 100-120 MPH (3 SECOND GUST)
- RISK CATEGORY: II (BASED ON IBC TABLE 1604.5)
- NOMINAL DESIGN SPEED (OTHER STRUCTURE): 105 MPH (V_{50d}) (EXPOSURE B/IMPORTANCE FACTOR 1.0 BASED ON ASCE 7-10) PER 2012 INTERNATIONAL BUILDING CODE (IBC) AS MODIFIED BY THE 2016 CONNECTICUT STATE BUILDING CODE.
- SEISMIC LOAD (DOES NOT CONTROL): PER ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES.

SPECIAL INSPECTIONS

- SPECIAL INSPECTIONS ARE TO BE PROVIDED BY AN APPROVED AGENCY HIRED BY AT&T MOBILITY. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED BY CENTEK ENGINEERING, INC. DATED 03.XX.17.

GENERAL NOTES:

- ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE GOVERNING BUILDING CODE.
- DRAWINGS INDICATE THE MINIMUM STANDARDS, BUT IF ANY WORK SHOULD BE INDICATED TO BE SUBSTANDARD TO ANY ORDINANCES, LAWS, CODES, RULES, OR REGULATIONS BEARING ON THE WORK, THE CONTRACTOR SHALL INCLUDE IN HIS WORK AND SHALL EXECUTE THE WORK CORRECTLY IN ACCORDANCE WITH SUCH ORDINANCES, LAWS, CODES, RULES OR REGULATIONS WITH NO INCREASE IN COSTS.
- BEFORE BEGINNING THE WORK, THE CONTRACTOR IS RESPONSIBLE FOR MAKING SUCH INVESTIGATIONS CONCERNING PHYSICAL CONDITIONS (SURFACE AND SUBSURFACE) AT OR CONTIGUOUS TO THE SITE WHICH MAY AFFECT PERFORMANCE AND COST OF THE WORK.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.
- ALL DIMENSIONS, ELEVATIONS, AND OTHER REFERENCES TO EXISTING STRUCTURES, SURFACE, AND SUBSURFACE CONDITIONS ARE APPROXIMATE. NO GUARANTEE IS MADE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ANGLES WITH EXISTING CONDITIONS AND WITH ARCHITECTURAL AND SITE DRAWINGS BEFORE PROCEEDING WITH ANY WORK.
- AS THE WORK PROGRESSES, THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONDITIONS WHICH ARE IN CONFLICT OR OTHERWISE NOT CONSISTENT WITH THE CONSTRUCTION DOCUMENTS AND SHALL NOT PROCEED WITH SUCH WORK UNTIL THE CONFLICT IS SATISFACTORILY RESOLVED.
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ADEQUATE SHORING, BRACING, AND BARRICADES AS MAY BE REQUIRED FOR THE PROTECTION OF EXISTING PROPERTY, CONSTRUCTION WORKERS, AND FOR PUBLIC SAFETY.
- THE CONTRACTOR IS SOLELY RESPONSIBLE TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE, AND TO ENSURE THE SAFETY OF THE EXISTING STRUCTURES AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY. MAINTAIN EXISTING SITE OPERATIONS, COORDINATE WORK WITH NORTHEAST UTILITIES
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER FOUNDATION REMEDIATION WORK IS COMPLETE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, GUYS OR TIEDOWNS, WHICH MIGHT BE NECESSARY.
- THE CONTRACTOR SHALL LIMIT THE DURATION OF ANY FOUNDATION MODIFICATION WORK. THE EXISTING FOUNDATION WITHIN THE SHOWN LIMITS IS STABLE FOR WIND SPEEDS LESS THAN 50MPH WITHOUT ICE LOADING. IF HIGHER WIND SPEED OR ICE EVENT IS EXPECTED, THE EXCAVATION AREA SHALL BE FILLED WITH COMPACT FILL MATERIAL.
- ALL DAMAGE CAUSED TO ANY EXISTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE HELD LIABLE FOR ALL REPAIRS REQUIRED FOR EXISTING STRUCTURES IF DAMAGED DURING CONSTRUCTION ACTIVITIES.
- SHOP DRAWINGS, CONCRETE MIX DESIGNS, TEST REPORTS, AND OTHER SUBMITTALS PERTAINING TO STRUCTURAL WORK SHALL BE FORWARDED TO THE OWNER FOR REVIEW BEFORE FABRICATION AND/OR INSTALLATION IS MADE. SHOP DRAWINGS SHALL INCLUDE ERECTION DRAWINGS AND COMPLETE DETAILS OF CONNECTIONS AS WELL AS MANUFACTURER'S SPECIFICATION DATA WHERE APPROPRIATE. SHOP DRAWINGS SHALL BE CHECKED BY THE CONTRACTOR AND BEAR THE CHECKER'S INITIALS BEFORE BEING SUBMITTED FOR REVIEW.
- NO DRILLING WELDING OR TAPING ON EVERSOURCE OWNED EQUIPMENT.
- REFER TO DRAWING T1 FOR ADDITIONAL NOTES AND REQUIREMENTS.

SITE NOTES

- THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- ACTIVE EXISTING UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY, PRIOR TO PROCEEDING, SHOULD ANY UNCOVERED EXISTING UTILITY PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- ALL RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED OFF SITE AND BE LEGALLY DISPOSED, AT NO ADDITIONAL COST.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
- NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
- THE AREAS OF THE COMPOUND DISTURBED BY THE WORK SHALL BE RETURNED TO THEIR ORIGINAL CONDITION.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
- IF ANY FIELD CONDITIONS EXIST WHICH PRECLUDE COMPLIANCE WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL PROCEED WITH AFFECTED WORK AFTER CONFLICT IS SATISFACTORILY RESOLVED.
- DIMENSIONS AND DETAILS SHALL BE CHECKED AGAINST THE PRE MANUFACTURED EQUIPMENT BUILDING SHOP DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS, SLEEVES AND ANCHOR BOLTS AS REQUIRED BY ALL TRADES.

EARTHWORK NOTES

- COMPACTED GRAVEL FILL SHALL BE FURNISHED AND PLACED AS A FOUNDATION FOR STRUCTURES, WHERE SHOWN ON THE CONTRACT DRAWINGS OR DIRECTED BY THE ENGINEER.
- CRUSHED STONE FILL SHALL BE PLACED IN 12" MAX. LIFTS AND CONSOLIDATED USING A HAND OPERATED VIBRATORY PLATE COMPACTOR WITH A MINIMUM OF 2 PASSSES OF COMPACTOR PER LIFT.
- COMPACTED GRAVEL FILL TO BE WELL GRADED BANK RUN GRAVEL MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
1 1/2"	100
No. 4	40-70
No. 100	5-20
No. 200	4-8

- CRUSHED STONE TO BE UNIFORMLY GRADED, CLEAN, HARD PROCESS AGGREGATE MEETING THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
1"	100
3/4"	90-100
1/2"	0-15
3/8"	0-5

- SELECT BACKFILL FOR FOUNDATION WALLS SHALL BE FREE OF ORGANIC MATERIAL, TOPSOIL, DEBRIS AND BOULDERS LARGER THAN 6".

- GRAVEL AND GRANULAR FILL SHALL BE INSTALLED IN 10" MAX. LIFTS. COMPACTED TO 95% MIN. AT MAX. DRY DENSITY.

- NON WOVEN GEOTEXTILE FOR SEPARATION PURPOSES SHALL BE MIRAFI 140N, OR ENGINEER APPROVED EQUAL.

FOUNDATION CONSTRUCTION NOTES

- ALL FOOTINGS SHALL BE PLACED ON SUITABLE, COMPACTED SOIL HAVING ADEQUATE BEARING CAPACITY AND FREE OF ORGANIC CONTENT, CLAY, OR OTHER UNSUITABLE MATERIAL. ADDITIONAL EXCAVATION MAY BE REQUIRED BELOW FOOTING ELEVATIONS INDICATED IF UNSUITABLE MATERIAL IS ENCOUNTERED.
- SUBGRADE PREPARATION: IF UNSUITABLE SOIL IS ENCOUNTERED, REMOVE ALL UNSUITABLE MATERIALS FROM BELOW PROPOSED STRUCTURE FOUNDATIONS AND COMPACT EXPOSED SOIL SURFACES. PLACE AND COMPACT APPROVED GRAVEL FILL. PLACEMENT OF ALL COMPACTED FILL MUST BE UNDER SUPERVISION OF AN APPROVED TESTING LABORATORY. FILL SHALL BE COMPACTED IN LAYERS NOT TO EXCEED 10" BEFORE COMPACTION. DETERMINE MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D1557-70 AND MAKE ONE (1) FIELD DENSITY TEST IN ACCORDANCE WITH ASTM D2167-66 FOR EACH 50 CUBIC YARDS OF COMPACTED FILL. BUT NOT LESS THAN ONE (1) PER LAYER, TO INSURE COMPACTION TO 95% OF MAX. DRY DENSITY.
- ALL SOIL SURROUNDING AND UNDER ALL FOOTINGS SHALL BE KEPT REASONABLY DRY AND PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION.
- WHERE GROUNDWATER IS ENCOUNTERED, DEWATERING SHALL BE ACCOMPLISHED CONTINUOUSLY AND COMPLETELY DURING FOUNDATION CONSTRUCTION. PROVIDE CRUSHED STONE AS REQUIRED TO STABILIZE FOOTING SUBGRADE.
- ALL FOOTINGS ARE TO REST ON FIRM SOIL, REGARDLESS OF ELEVATIONS SHOWN ON THE DRAWINGS, BUT IN NO CASE MAY FOOTING ELEVATIONS BE HIGHER THAN INDICATED ON THE FOUNDATION PLAN, UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.
- FOUNDATION WATERPROOFING AND DAMPPROOFING SHALL COMPLY WITH BUILDING CODE REQUIREMENTS UNLESS A MORE SUBSTANTIAL SYSTEM IS INDICATED OR SPECIFIED.

CONCRETE CONSTRUCTION NOTES

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS:
 - ACI 211 - STANDARD PRACTICE FOR SELECTING PROPORTIONS FOR NORMAL AND HEAVYWEIGHT CONCRETE.
 - ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
 - ACI 302 - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
 - ACI 304 - RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
 - ACI 306.1 STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
- CONCRETE SHALL DEVELOP COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS:
 - SLABS ON GRADE 4,000 PSI
 - ALL OTHER CONCRETE 3,000 PSI
 - PORTLAND CEMENT: ASTM C150, TYPE II, (540 LBS/CUBIC YARD)
 - AGGREGATE: ASTM C33, No. 67, TYPICAL
 - WATER: POTABLE WITH MAXIMUM WATER CEMENT RATIO OF .55
 - SLUMP: 3" TO 4"
 - ADMIXTURES: USE AIR ENTRAINING AGENT CONFORMING TO ASTM C260 WITH 4 TO 6% TOTAL AIR. USE WATER REDUCING AGENT CONFORMING TO ASTM C494, TYPE A, IN ALL CONCRETE. CALCIUM CHLORIDE MAY NOT BE USED TO ACCELERATE THE CONCRETE SETTING TIME.
- REINFORCING STEEL SHALL BE 60,000 PSI YIELD STRENGTH.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM- A-185.
- ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, MUST FOLLOW THE LATEST ACI CODE AND LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES".
- CONCRETE COVER OVER REINFORCING SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE SHOWN:
 - CONCRETE CAST AGAINST & PERMANENTLY EXPOSED TO EARTH 3 INCHES
 - CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 THROUGH #18 BARS 2 INCHES
 - #5 BAR, W31 OR D31 WIRE, AND SMALLER 1-1/2 INCHES
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
 - #14 THROUGH #18 BARS 1-1/2 INCHES
 - #11 BAR AND SMALLER 3/4 INCHES
- NO STEEL WIRE, METAL FORM TIES, OR ANY OTHER METAL SHALL REMAIN WITHIN THE REQUIRED COVER OF ANY CONCRETE SURFACE.
- ALL REINFORCEMENT SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED. SPLICES SHALL BE WELL STAGGERED. ADDITIONAL BARS AND SPECIAL BENDING DETAILS ARE REQUIRED AT INTERSECTING WALLS AND AT JOINTS. SUCH DETAILS SHALL COMPLY WITH ACI 315 RECOMMENDATIONS UNLESS OTHERWISE SHOWN.
- NO TACK WELDING OF REINFORCING WILL BE PERMITTED.
- NO CALCIUM CHLORIDE OR ADMIXTURES CONTAINING MORE THAN 1% CHLORIDE BY WEIGHT OF ADMIXTURE SHALL BE USED IN THE CONCRETE.
- UNLESS OTHERWISE NOTED, ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS.
- SLAB ON GRADE FINISHES:
 - EXTERIOR SLAB: NON-SLIP BROOM FINISH
 - INTERIOR SLAB: STEEL TROWEL FINISH
- INSPECTION AND TESTING OF CONCRETE WORK SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY, PAID BY THE OWNER, AND APPROVED BY THE ENGINEER. THE INSPECTOR SHALL OBSERVE CONDITION OF SOILS AND FORMWORK BEFORE FOOTINGS ARE PLACED, SIZE, SPACING AND LOCATION OF REINFORCEMENT, AND PLACEMENT OF CONCRETE.
- THE TESTING COMPANY SHALL ALSO OBTAIN A MINIMUM OF THREE (3) COMPRESSIVE STRENGTH TEST SPECIMENS FOR EACH CONCRETE MIX DESIGN, ONE SPECIMEN TESTED AT 7 DAYS, ONE AT 28 DAYS, AND ONE HELD IN RESERVE FOR FUTURE TESTING, IF NEEDED.
- FOUR COPIES OF ALL INSPECTION TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN TEN (10) WORKING DAYS OF THE DATE OF INSPECTION.

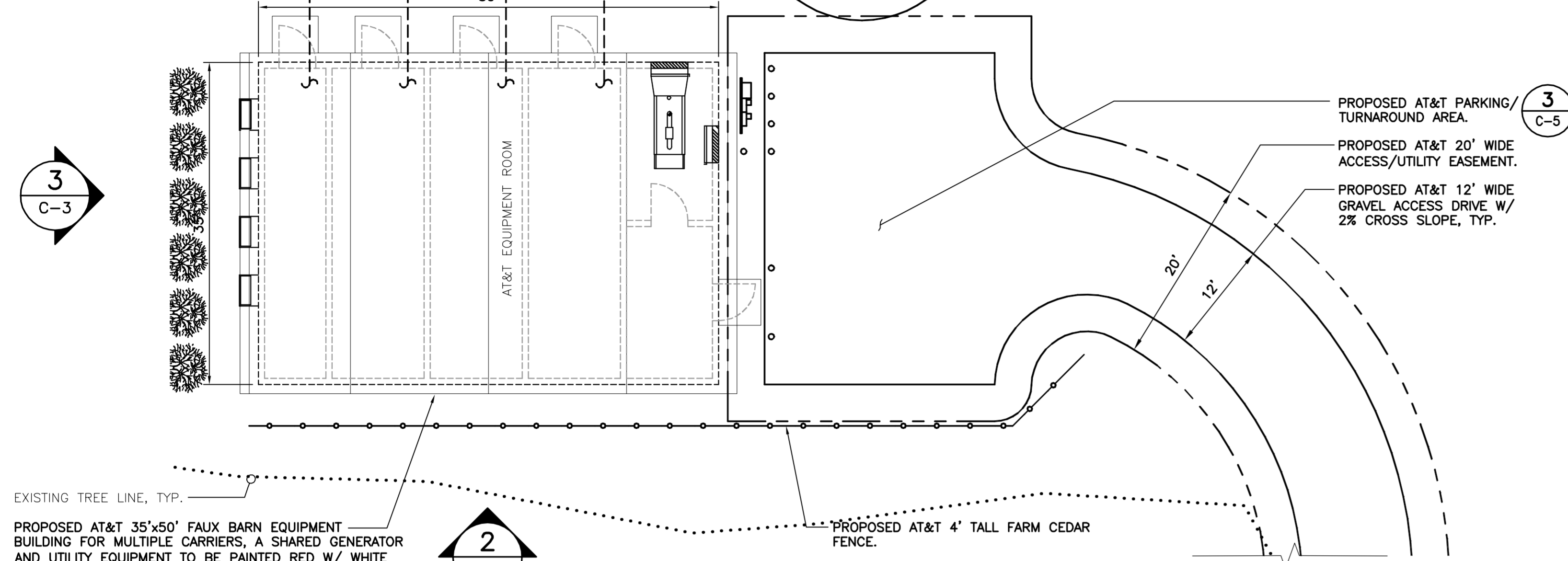
STRUCTURAL STEEL

- ALL STRUCTURAL STEEL IS DESIGNED BY ALLOWABLE STRESS DESIGN (ASD)
 - A. STRUCTURAL STEEL (W SHAPES)---ASTM A992 (FY = 50 KSI)
 - B. STRUCTURAL STEEL (OTHER SHAPES)---ASTM A36 (FY = 36 KSI)
 - C. STRUCTURAL HSS (RECTANGULAR SHAPES)---ASTM A500 GRADE B, (FY = 46 KSI)
 - D. STRUCTURAL HSS (ROUND SHAPES)---ASTM A500 GRADE B, (FY = 42 KSI)
 - E. PIPE---ASTM A53 (FY = 35 KSI)
 - F. CONNECTION BOLTS---ASTM A325-N
 - G. U-BOLTS---ASTM A36
 - H. ANCHOR RODS---ASTM F 1554
 - I. WELDING ELECTRODE---ASTM E 70XX
- CONTRACTOR TO REVIEW ALL SHOP DRAWINGS AND SUBMIT COPY TO ENGINEER FOR APPROVAL. DRAWINGS MUST BEAR THE CHECKER'S INITIALS BEFORE SUBMITTING TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE THE FOLLOWING: SECTION PROFILES, SIZES, CONNECTION ATTACHMENTS, REINFORCING, ANCHORAGE, SIZE AND TYPE OF FASTENERS AND ACCESSORIES. INCLUDE ERECTION DRAWINGS, ELEVATIONS AND DETAILS.
- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST PROVISIONS OF AISC MANUAL OF STEEL CONSTRUCTION.
- PROVIDE ALL PLATES, CLIP ANGLES, CLOSURE PIECES, STRAP ANCHORS, MISCELLANEOUS PIECES AND HOLES REQUIRED TO COMPLETE THE STRUCTURE.
- FIT AND SHOP ASSEMBLE FABRICATIONS IN THE LARGEST PRACTICAL SECTIONS FOR DELIVERY TO SITE.
- INSTALL FABRICATIONS PLUMB AND LEVEL, ACCURATELY FITTED, AND FREE FROM DISTORTIONS OR DEFECTS.
- AFTER ERECTION OF STRUCTURES, TOUCHUP ALL WELDS, ABRASIONS AND NON-GALVANIZED SURFACES WITH A 95% ORGANIC ZINC RICH PAINT IN ACCORDANCE WITH ASTM 780.
- ALL STEEL MATERIAL (EXPOSED TO WEATHER) SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT DIPPED GALVANIZED) COATINGS" ON IRONS AND STEEL PRODUCTS.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE".
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES APPEARANCE AND QUALITY OF WELDS, AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON CONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW.
- CONNECTION ANGLES SHALL HAVE A MINIMUM THICKNESS OF 1/4 INCHES.
- STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL HAVE A MINIMUM OF TWO BOLTS, UNLESS OTHERWISE ON THE DRAWINGS.
- LOCK WASHER ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES.
- SHOP CONNECTIONS SHALL BE WELDED OR HIGH STRENGTH BOLTED.
- MILL BEARING ENDS OF COLUMNS, STIFFENERS, AND OTHER BEARING SURFACES TO TRANSFER LOAD OVER ENTIRE CROSS SECTION.
- FABRICATE BEAMS WITH MILL CAMBER UP.
- LEVEL AND PLUMB INDIVIDUAL MEMBERS OF THE STRUCTURE TO AN ACCURACY OF 1:500, BUT NOT TO EXCEED 1/4" IN THE FULL HEIGHT OF THE COLUMN.
- COMMENCEMENT OF STRUCTURAL STEEL WORK WITHOUT NOTIFYING THE ENGINEER OF ANY DISCREPANCIES WILL BE CONSIDERED ACCEPTANCE OF PRECEDING WORK.
- INSPECTION AND TESTING OF ALL WELDING AND HIGH STRENGTH BOLTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.
- FOUR COPIES OF ALL INSPECTION TEST REPORTS SHALL BE SUBMITTED TO THE ENGINEER WITHIN TEN (10) WORKING DAYS OF THE DATE OF INSPECTION.

Professional Engineer Seal: State of Connecticut, License No. 10000, Exp. 12/31/2017. Includes logos for at&t, SAI communications, CENTEK engineering, and AT&T MOBILITY. Project address: CT1345 EAST LYME RELO. THE ORCHARDS, 2 ARBOR CROSSING, EAST LYME, CT 06333. Date: 03/07/17, Scale: AS NOTED, Job No: 16024.00. General Notes & Specifications. Sheet No. 2 of 25.

PROPOSED AT&T 105'x25' TALL FAUX SILO ANTENNA CONCEALMENT ENCLOSURE TO BE PAINTED GRAY WITH WHITE TRIM AND APPROVED BY PROPERTY OWNER, BY STEALTH CONCEALMENT SOLUTIONS.

PROPOSED AT&T ANTENNA CABLES ROUTED U/G TO SILO.



1 COMPOUND PLAN
SCALE: 1" = 10'

TOP OF FAUX SILO STRUCTURE
EL. ±105'-0" A.G.L.

Q OF PROPOSED AT&T ANTENNAS
EL. ±95'-0" A.G.L.

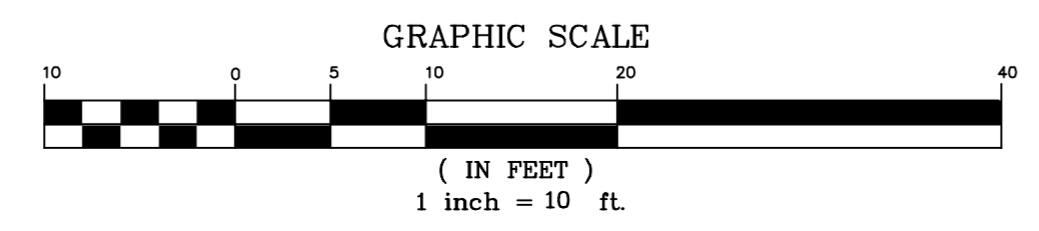
PROPOSED AT&T 105'x25' TALL FAUX SILO ANTENNA CONCEALMENT ENCLOSURE TO BE PAINTED GRAY WITH WHITE TRIM BY STEALTH CONCEALMENT SOLUTIONS.

PROPOSED AT&T 35'x50' FAUX BARN EQUIPMENT BUILDING FOR MULTIPLE CARRIERS, A SHARED GENERATOR AND UTILITY EQUIPMENT TO BE PAINTED RED W/ WHITE TRIM.

PROPOSED AT&T 4' TALL FARM CEDAR FENCE.

FOUR (4) PROPOSED DC CONDUCTOR LINES AND ONE (1) PROPOSED FIBER TRUNK FROM EQUIPMENT ROOM AT GRADE THROUGH UNDERGROUND CONDUITS AND UP THE INTERIOR OF THE SILO TO EACH ANTENNA SECTOR LOCATION.

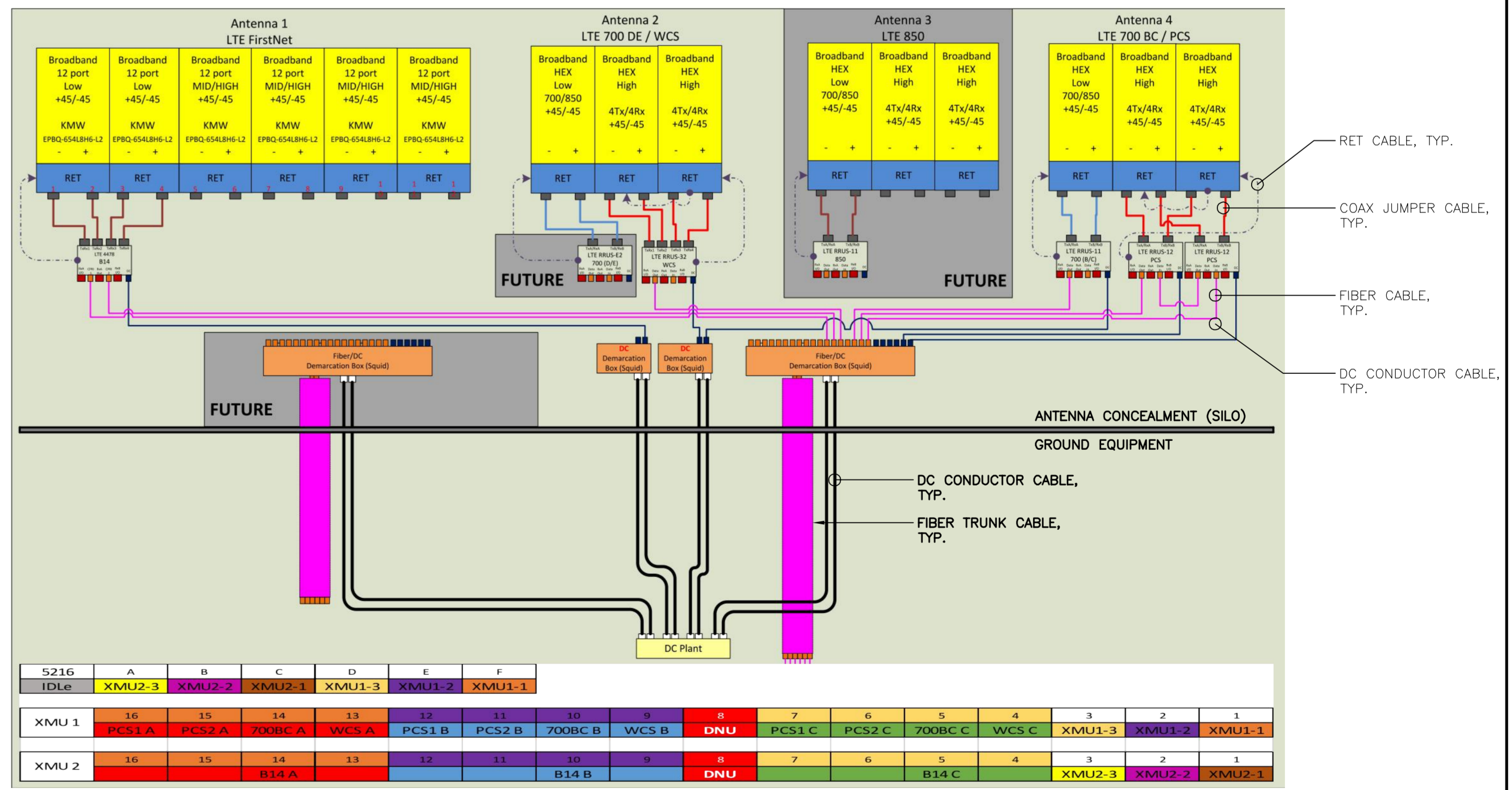
2 SOUTH ELEVATION
SCALE: 1" = 10'



NOTES:

1. INFORMATION SHOWN HEREIN IS FOR USE BY AT&T MOBILITY EQUIPMENT OPERATIONS.
2. THIS B.O.M. DRAWING IS BASED OFF FIELD MEASUREMENTS, CONSTRUCTION DRAWINGS PREPARED BY CENTEK ENGINEERING (REV.0 DATED: 03.13.17), & AT&T RF ANTENNA EQUIPMENT RECOMMENDATION (DATED 10.26.17).

BILL OF MATERIALS - SITE EQUIPMENT				
ITEM NO.	DESCRIPTION	QUANTITY	LENGTH	COMMENTS
1	LTE 700 BC/PCS	3		(HPA65R-BU6AA-K) MOUNTED TO PIPE MAST
2	LTE 700 DE/WCS	3		(HPA65R-BU6AA-K) MOUNTED TO PIPE MAST
3	LTE FIRST NET	3		(EPBQ-654LBH6-L2) MOUNTED TO PIPE MAST
4	1/2" COAX JUMPERS	36	6 FT	ROUTE FROM RRU TO ANTENNA
5	RET CABLE	3	.5 M	ROUTE FROM MOTOR TO MOTOR
6	700 B/G RRU	3		RRUS-11
7	PCS RRU	6		RRUS-12
8	WCS RRU	3		RRUS-32
9	4478 RRU	3		RRUS-B14
10	DC12 SQUID	3		DC12-48-60-0-25E
11	FIBER MANAGEMENT BOX	3		JSOURCE 1212BFM4SEC
12	DC CONDUCTOR CABLE	6		REFER TO MANUFACTURER'S RECOMMENDATIONS
13	FIBER TRUNK (FUTURE)	13		ROUTE FROM EQUIPMENT ROOM TO FIBER MANAGEMENT BOX
14	LTE 850 (FUTURE)	3		(HPA-65R-BUJ-H8) MOUNTED TO PIPE MAST
15	1/2" COAX JUMPERS (FUTURE)	12	6 FT	ROUTE FROM RRU TO ANTENNA
16	RET CABLE (FUTURE)	9	3 M	ROUTE FROM ANTENNA TO ANTENNA
17	700 D/E RRU (FUTURE)	3		RRUS-E2
18	850 (FUTURE)	3		RRUS-11



5216	A	B	C	D	E	F
IDLE	XMU2-3	XMU2-2	XMU2-1	XMU1-3	XMU1-2	XMU1-1
XMU 1	16	15	14	13	12	11
	PCS1 A	PCS2 A	700BC A	WCS A	PCS1 B	PCS2 B
					700BC B	WCS B
						DNU
						PCS1 C
						PCS2 C
						700BC C
						WCS C
						XMU1-3
						XMU1-2
						XMU1-1
XMU 2	16	15	14	13	12	11
			B14 A			B14 B
						DNU
						7
						6
						5
						4
						3
						XMU2-3
						XMU2-2
						XMU2-1

1 PLUMBING DIAGRAM
SCALE: N.T.S.

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at&t

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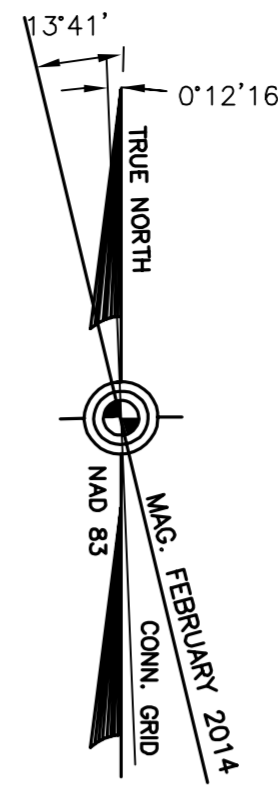
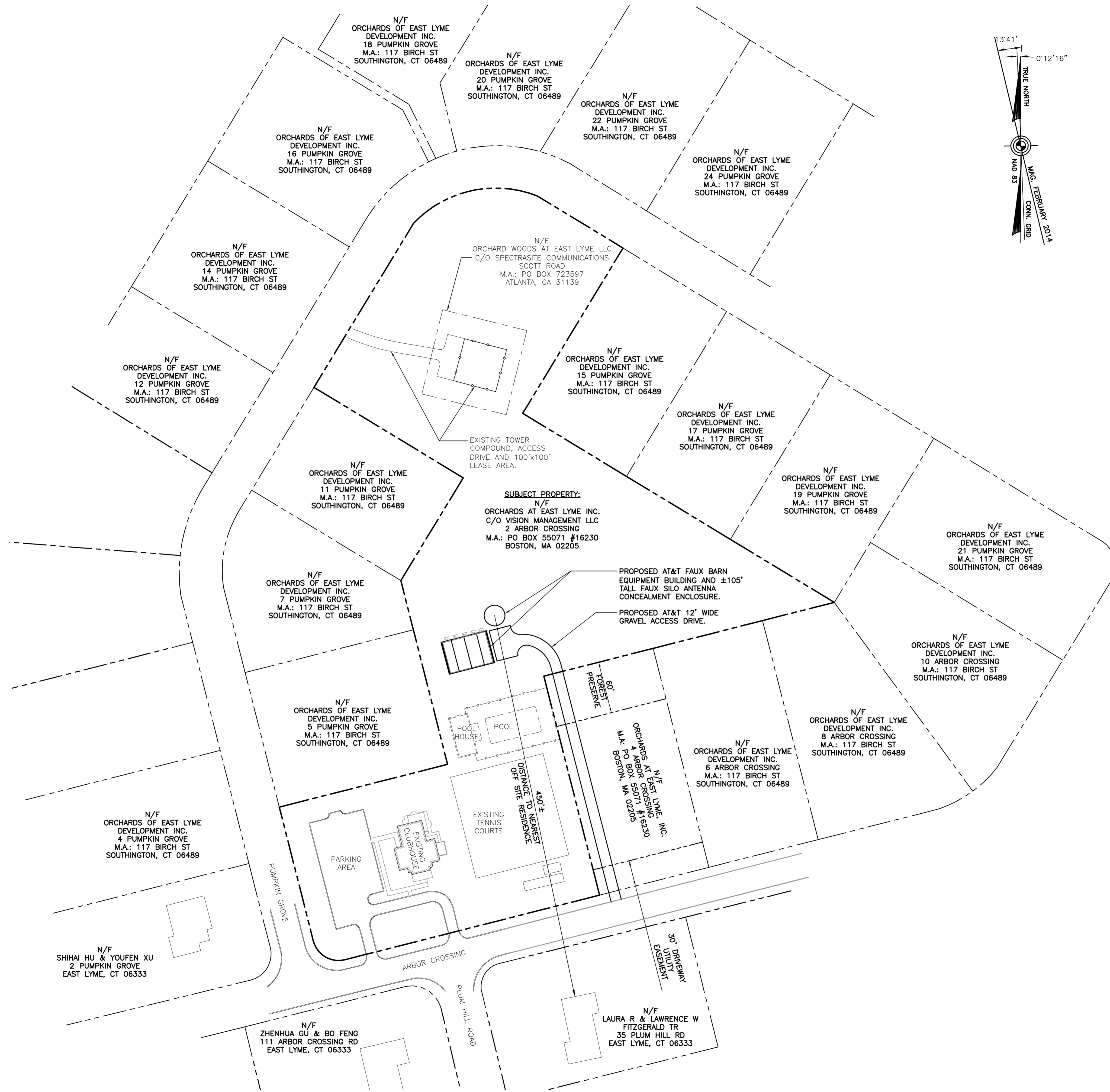
AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
CT1345 EAST LYME RELO.
THE ORCHARDS
2 ARBOR CROSSING
EAST LYME, CT 06333

DATE: 03/07/17
SCALE: AS NOTED
JOB NO. 16024.00

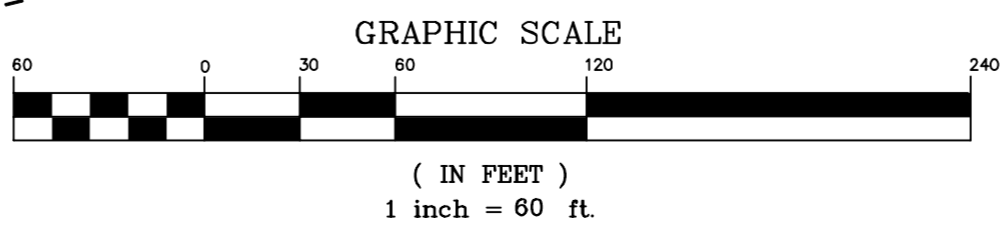
GENERAL NOTES & SPECIFICATIONS

B-1

Sheet No. 3 of 25

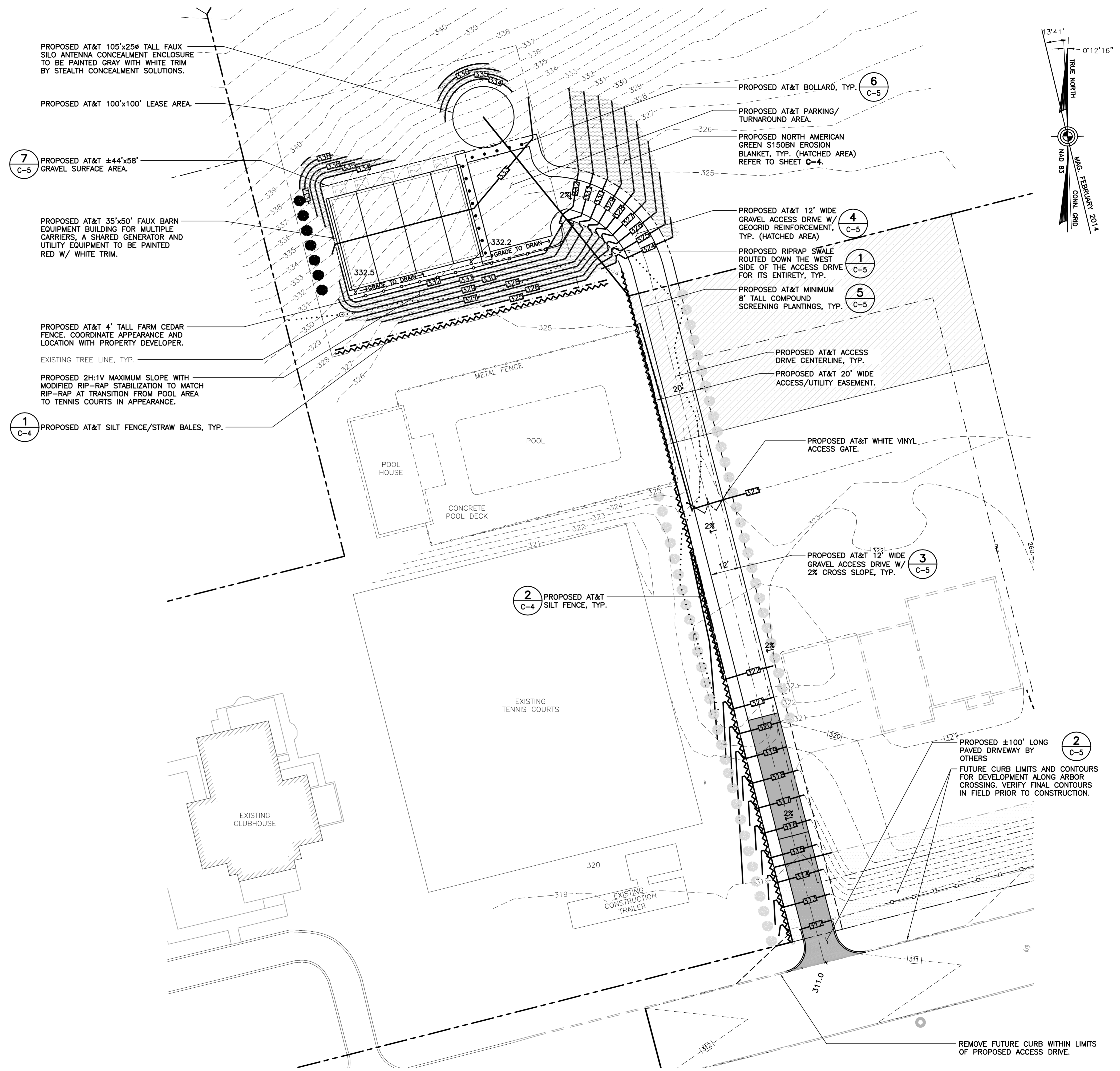


1
C-1 **ABUTTERS MAP**
SCALE: 1"=60'



NOTES:
1. PARCEL INFORMATION AND ABUTTER INFORMATION SHOWN HEREIN REFERENCED FROM THE TOWN OF EAST LYME'S ONLINE GIS MAPPING APPLICATION

PROFESSIONAL ENGINEER SEAL	CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING
	CAG
	KAW
	DATE 04/27/17
	REV. 0
(203) 488-0380 (203) 488-8387 Fax 63-2 North Branford Road Branford, CT 06405 www.CentekEng.com	DESCRIPTION
AT&T MOBILITY WIRELESS COMMUNICATIONS FACILITY CT1345 EAST LYME RELO. THE ORCHARDS 2 ARBOR CROSSING EAST LYME, CT 06333	
DATE: 03/07/17	
SCALE: AS NOTED	
JOB NO. 16024.00	
ABUTTERS MAP	
C-1	
Sheet No. 4 of 25	



STORMWATER MANAGEMENT NOTE

- ALL STORMWATER RUNOFF ROUTED WITHIN PROPOSED DRAINAGE CONTROL SWALE WILL BE CONNECTED/DIRECTED TO FUTURE ARBOR CROSSING ROAD DEVELOPMENT STORMWATER SYSTEM. COORDINATE WITH PROPERTY OWNER AND ENGINEER OF RECORD.

ACCESS DRIVE NOTE

- BEGINNING PORTION OF PROPOSED AT&T ACCESS DRIVE SHALL BE OF SHARED USE UNTIL ACCESS GATE IS REACHED.

SURVEY NOTES

- SURVEY INFORMATION SHOWN HEREIN REFERENCED FROM SITE SURVEY PREPARED BY GERWICK-MEREEN, LLC FOR CARRIER ENTERPRISES, INC. FOR USE IN CONSTRUCTING THE ORCHARDS OF EAST LYME DEVELOPMENT.
- EXISTING TREES NOT INCLUDED IN SURVEY PROVIDED BY GERWICK-MEREEN, LLC. CENTEK ENGINEERING, INC. SHALL LOCATE ALL EXISTING TREES WITHIN THE PROPOSED AREA OF DISTURBANCE WITH A 6" DIAMETER AT BREAST HEIGHT TO DETERMINE THE QUANTITY OF TREES TO BE REMOVED.

MISCELLANEOUS SITE INFORMATION

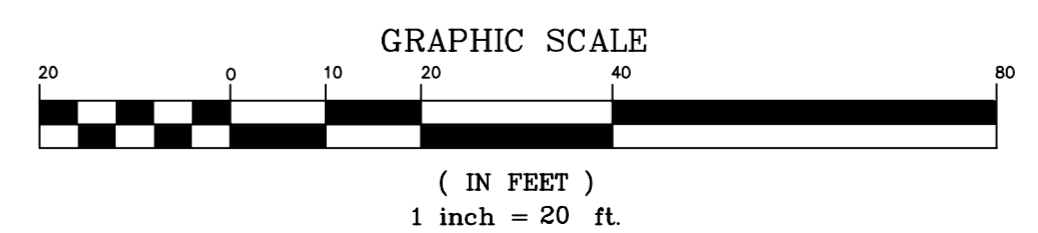
DISTANCE TO NEAREST OFF SITE RESIDENCE*	=	450'±
DISTANCE TO NEAREST MUNICIPALITY (OLD LYME, CT)*	=	9,300'±
ACCESS LENGTH OFF ARBOR CROSSING	=	375'±
NUMBER OF EXISTING RESIDENTIAL STRUCTURES WITHIN 1000' OF TOWER	=	28±
TOTAL NUMBER OF TREES TO BE REMOVED**	=	73±
DISTANCE TO NEAREST PROPERTY LINE*	=	90'±

* DISTANCES TAKEN FROM CENTER OF SILO
 ** TREE LOCATIONS HAVE YET TO BE SURVEYED

SYMBOLS LEGEND

---	PROPERTY LINE
- - - - -	EASEMENT LINE (PROPOSED)
---	EXISTING ROAD
---	ACCESS DRIVE (PROPOSED)
---650---	CONTOUR LINE
---650---	GRADING LINE
○	UTILITY POLE
~ ~ ~ ~ ~	SILTATION FENCE/ STRAWBALES/ SILTATION FENCE "SANDWICH"
—○—	FENCE LINE
x	SPOT ELEVATION (PROPOSED)

1 PARTIAL SITE/SURVEY PLAN
 SCALE: 1"=20'



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**CT1345 EAST LYME RELO.
 THE ORCHARDS
 2 ARBOR CROSSING
 EAST LYME, CT 06333**

REV.	DATE	BY	CHK'D BY	DESCRIPTION
0	04/27/17	RAW		ISSUED FOR PERMITTING
1	08/21/17	CAG		REVISED TREE REMOVAL COUNT
4	12/04/17	CAG		REVISED BARN STRUCTURE
6	05/02/18	CAG		REVISED UTILITY EASEMENT PLAN
2	05/17/18	KAWIR		REVISIONS PER TOWERCO COMMENTS

DATE: 03/07/17
 SCALE: AS NOTED
 JOB NO. 16024.00

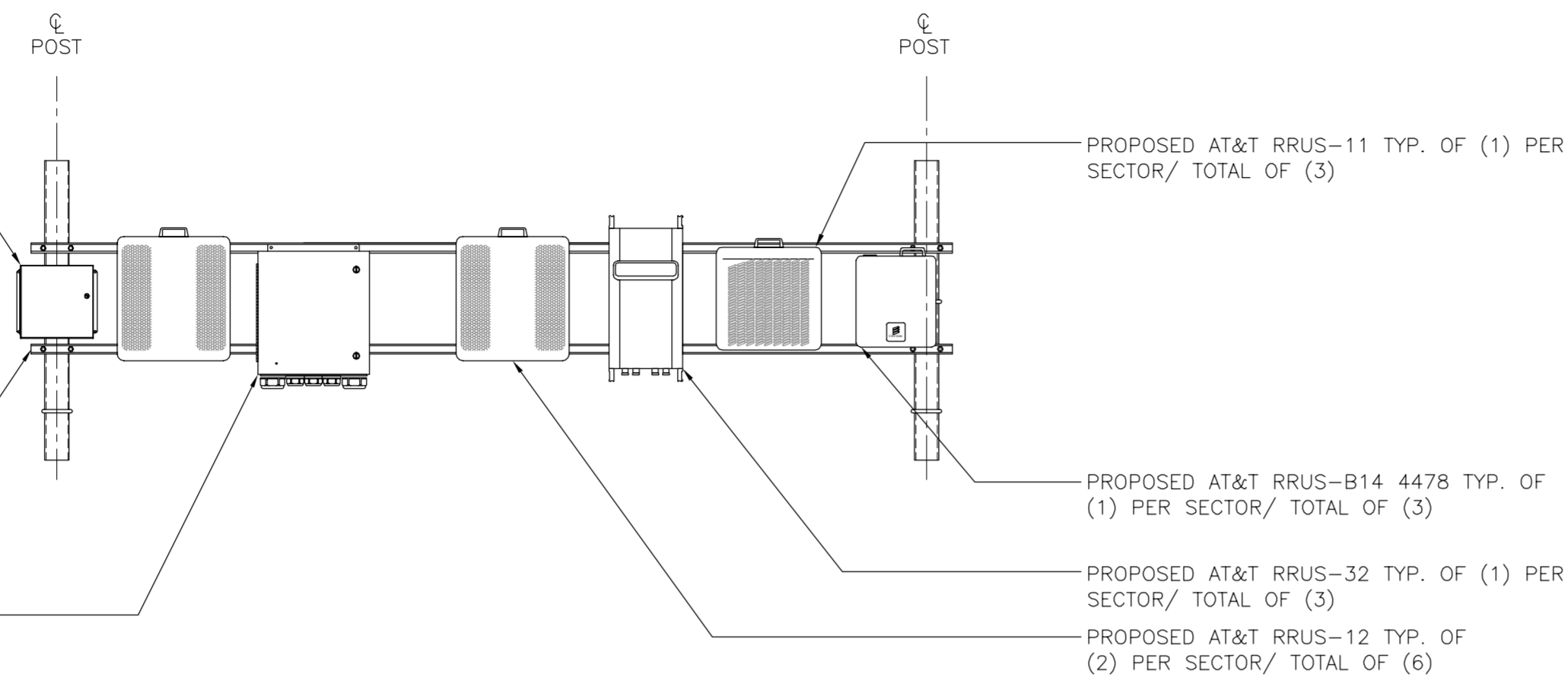
PARTIAL SITE/
 SURVEY PLAN

C-2
 Sheet No. 5 of 25

AT&T FIBER MANAGEMENT BOX (P/N: JSOURCE 12128FM4SEC) TYP. OF (1) PER SECTOR.

NEW UNISTRUT P1000T, TYPICAL OF (2), MOUNTED TO ANTENNA FRAME POSTS WITH 3/8" U-BOLT (TORQUE TO 40 FT-LBS) AT EACH POST.

PROPOSED AT&T DC 12 BOX (P/N: DC12-48-60-0-25E) TYP. OF (1) PER SECTOR/(3) TOTAL.



4 TYPICAL APPURTENANCE FRAME DETAIL
C-3 SCALE: 1/2" = 1'-0"

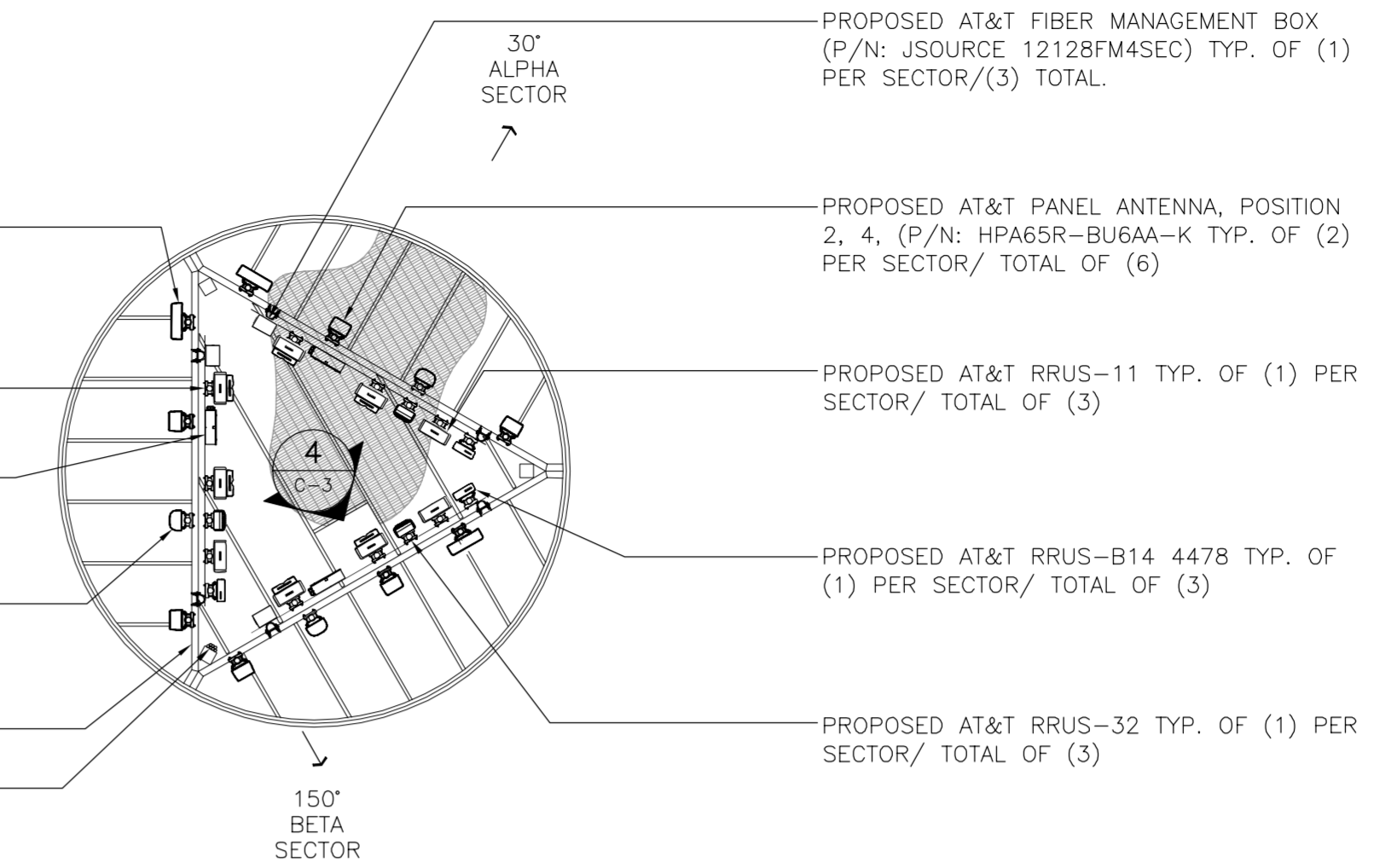
PROPOSED AT&T PANEL ANTENNA, POSITION 1, (P/N: EPBQ-654L8H6-L2 TYP. OF (1) PER SECTOR/ TOTAL OF (3)

PROPOSED AT&T RRUS-12 TYP. OF (2) PER SECTOR/ TOTAL OF (6)

PROPOSED AT&T DC 12 BOX (P/N: DC12-48-60-0-25E) TYP. OF (1) PER SECTOR/(3) TOTAL.

FUTURE AT&T PANEL ANTENNA, POSITION 3, TYP. OF (1) PER SECTOR/ TOTAL OF (3)

EXISTING ANTENNA MOUNT PLATFORM, TYP.
FOUR (4) PROPOSED DC CONDUCTOR LINES AND ONE (1) PROPOSED FIBER TRUNK



3 ANTENNA MOUNTING CONFIGURATION
C-3 SCALE: 1/8" = 1'

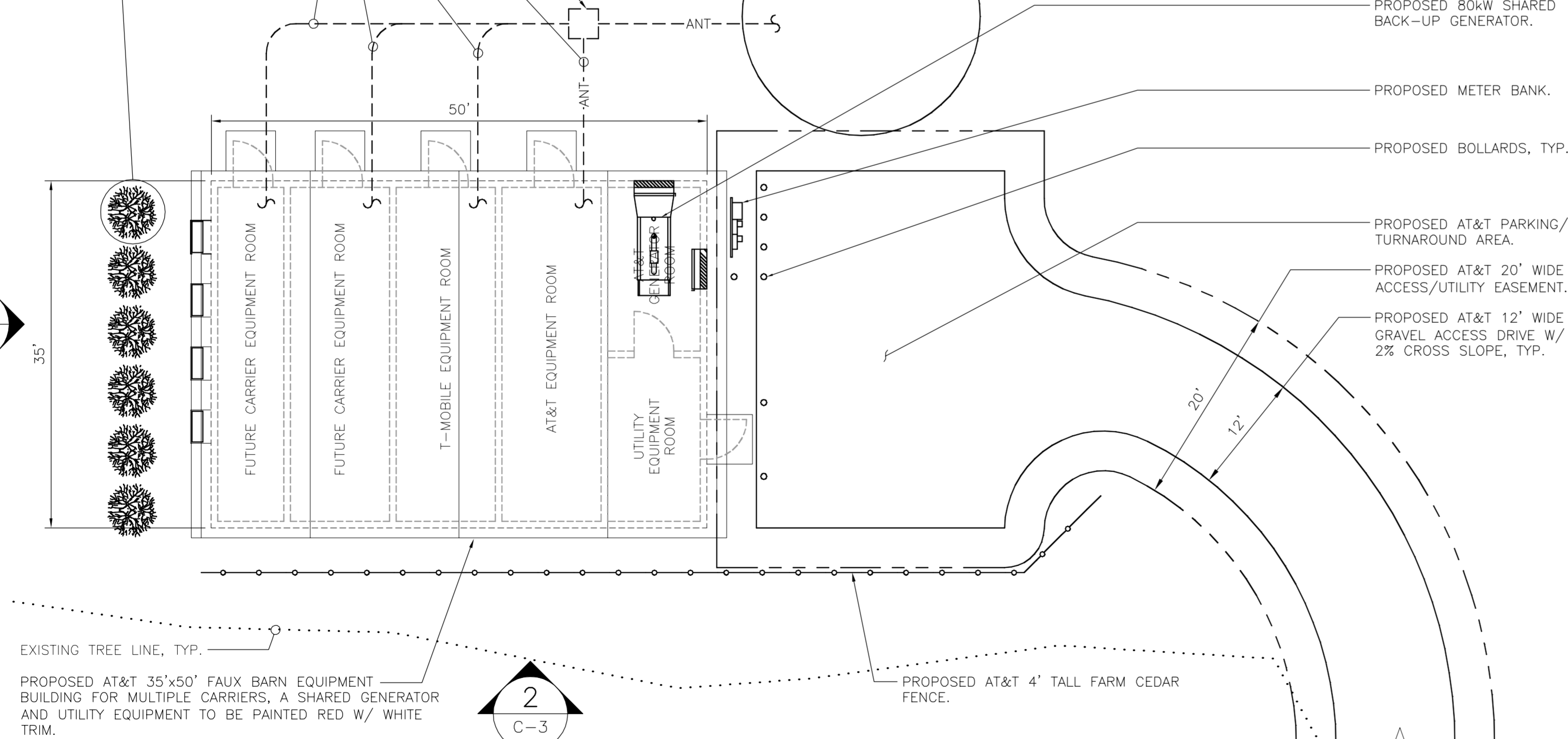
PROPOSED AT&T 105'x25' TALL FAUX SILO ANTENNA CONCEALMENT ENCLOSURE TO BE PAINTED GRAY WITH WHITE TRIM BY STEALTH CONCEALMENT SOLUTIONS

PROPOSED U/G CONDUIT VAULT AS REQUIRED.

PROPOSED AT&T ANTENNA CABLES ROUTED U/G TO SILO WITHIN (3)-6" CONDUITS.

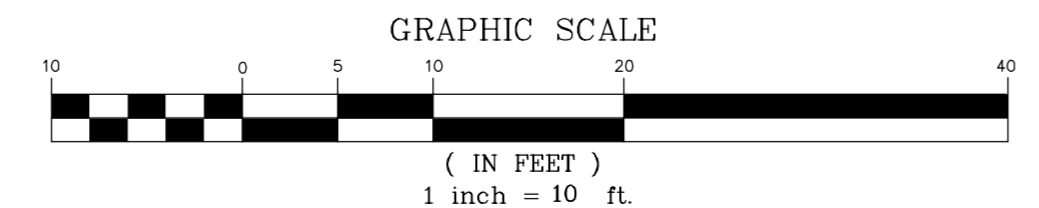
PROPOSED CARRIERS U/G CONDUITS, TYPICAL OF (3)-6" PER CARRIER ROOM.

PROPOSED "YEW" SHRUB (TAXUS X MEDIA 'DENSIFORMIS') TYPICAL OF 6



EXISTING TREE LINE, TYP.
PROPOSED AT&T 35'x50' FAUX BARN EQUIPMENT BUILDING FOR MULTIPLE CARRIERS, A SHARED GENERATOR AND UTILITY EQUIPMENT TO BE PAINTED RED W/ WHITE TRIM.

1 COMPOUND PLAN
C-3 SCALE: 1" = 10'



TOP OF FAUX SILO STRUCTURE
EL. ±105'-0" A.G.L.

EL. OF PROPOSED AT&T ANTENNAS
EL. ±95'-0" A.G.L.

EL. OF PROPOSED T-MOBILE ANTENNAS
EL. ±85'-0" A.G.L.

EL. OF FUTURE CARRIER ANTENNAS
EL. ±75'-0" A.G.L.

EL. OF FUTURE CARRIER ANTENNAS
EL. ±65'-0" A.G.L.

PROPOSED AT&T 105'x25' TALL FAUX SILO ANTENNA CONCEALMENT ENCLOSURE TO BE PAINTED GRAY WITH WHITE TRIM BY STEALTH CONCEALMENT SOLUTIONS.

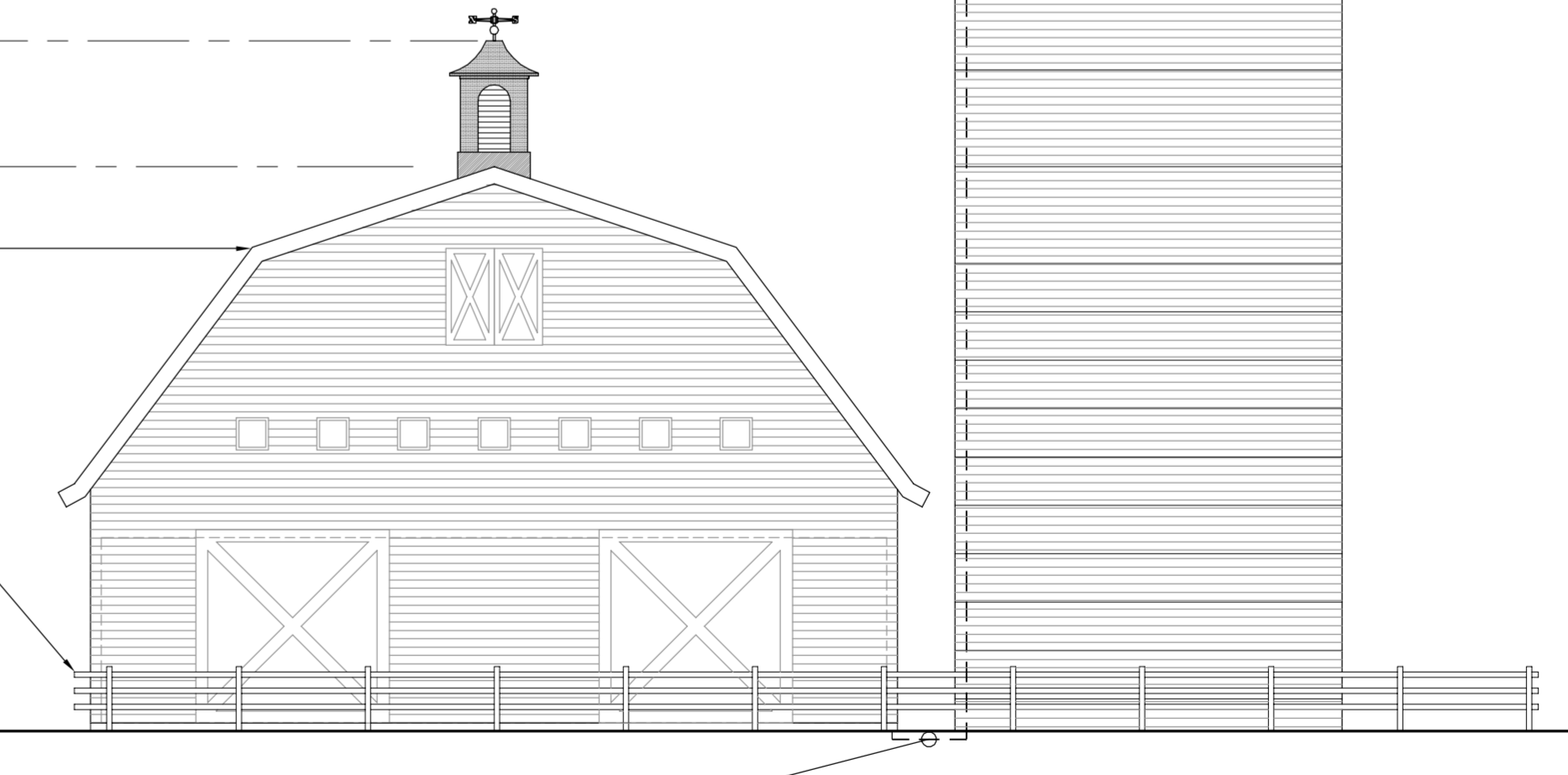
TOP OF PROPOSED CUPOLA
EL. ±42'-9" A.G.L.

TOP OF PROPOSED EQUIPMENT BARN
EL. ±35'-0" A.G.L.

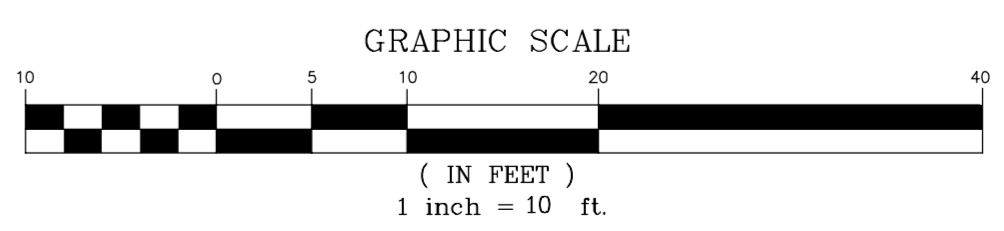
PROPOSED AT&T 35'x50' FAUX BARN EQUIPMENT BUILDING FOR MULTIPLE CARRIERS, A SHARED GENERATOR AND UTILITY EQUIPMENT TO BE PAINTED RED W/ WHITE TRIM.

PROPOSED AT&T 4' TALL FARM CEDAR FENCE.

FOUR (4) PROPOSED DC CONDUCTOR LINES AND ONE (1) PROPOSED FIBER TRUNK FROM EQUIPMENT ROOM AT GRADE THROUGH UNDERGROUND CONDUITS AND UP THE INTERIOR OF THE SILO TO EACH ANTENNA SECTOR LOCATION.

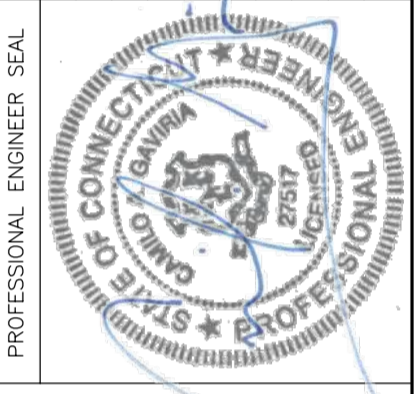


2 SOUTH ELEVATION
C-3 SCALE: 1" = 10'



STRUCTURAL NOTES:
1. FOR STRUCTURAL ANALYSIS ON SILO STRUCTURE REFER TO REPORT AS PREPARED BY VECTOR ENGINEERS, PROJECT NO. U0142-383-171, DATED APRIL 17, 2017 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. ALL ANTENNAS AND COAX TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL LETTER AND FINAL AT&T RF DATA SHEET.

REV.	DATE	DESCRIPTION
7	05/17/18	KAWIR CAG CONSTRUCTION DRAWINGS - REVISED PER TOWER COMMENTS
5	03/09/18	KAWIR CAG CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
4	12/04/17	TUL CONSTRUCTION DRAWINGS - REVISED BARN STRUCTURE
2	06/20/17	TUL CONSTRUCTION DRAWINGS - REVISED EQUIPMENT ROOM LAYOUT
1	05/03/17	KAW CAG CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
0	04/27/17	KAW CAG CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING



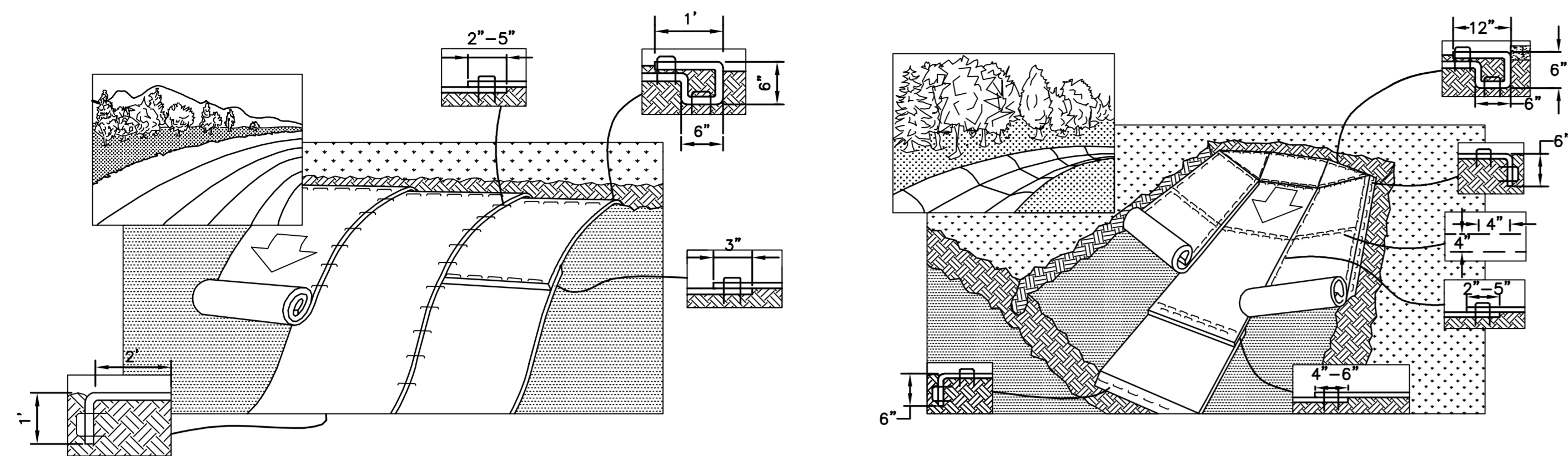
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SCALE: AS NOTED
JOB NO. 16024.00

COMPOUND PLAN,
ELEVATIONS AND
ANTENNA
MOUNTING CONFIG.

EROSION CONTROL BLANKET STABILIZATION



4 TYPICAL EROSION MAT INSTALLATION ON SLOPE
C-4 NOT TO SCALE

3 TYPICAL EROSION MAT INSTALLATION IN CHANNEL
C-4 NOT TO SCALE

STABILIZATION CRITERIA

- CONTRACTOR SHALL IMPLEMENT EROSION CONTROL BLANKET SLOPE STABILIZATION & SWALE CONSTRUCTION WHEN STABLE EARTH CUTS ARE PREVALENT (IN LOCATIONS WITHOUT LEDGE OR LARGE AMOUNTS OF SUBGRADE ROCK)

STABILIZATION PRODUCT SPECIFICATION

NORTH AMERICAN GREEN, PRODUCT NUMBER S150BN, 12 MONTH BIODEGRADABLE.

EROSION MAT ON SLOPES

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKET DOWN OR HORIZONTALLY ACROSS THE SLOPE. BLANKET WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL ROLLED EROSION CONTROL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM[™], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY A 2"-5" OVERLAP DEPENDING ON BLANKET TYPE.
- CONSECUTIVE ROLLED EROSION CONTROL BLANKET SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.

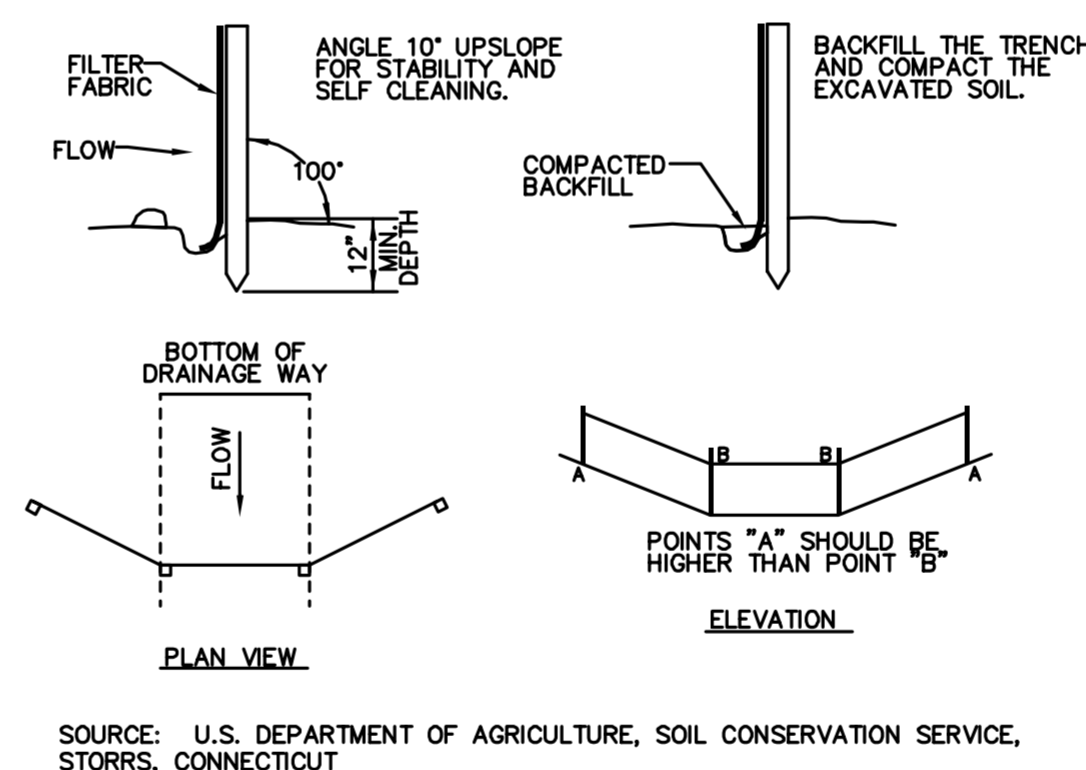
* IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKET.
- THE EDGE OF THE BLANKET IS TO EXTEND A MINIMUM 24 INCHES BEYOND THE TOE OF THE SLOPE AND ANCHORED BY PLACING THE STAPLES/STAKES IN A 12 INCH DEEP x 6 INCH WIDE ANCHOR TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12 INCH APART IN THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING (STONE OR SOIL MAY BE USED AS BACKFILL).
- REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN. MINIMUM 4 SPIKES PER ONE SQ. FT.

EROSION MAT IN CHANNEL

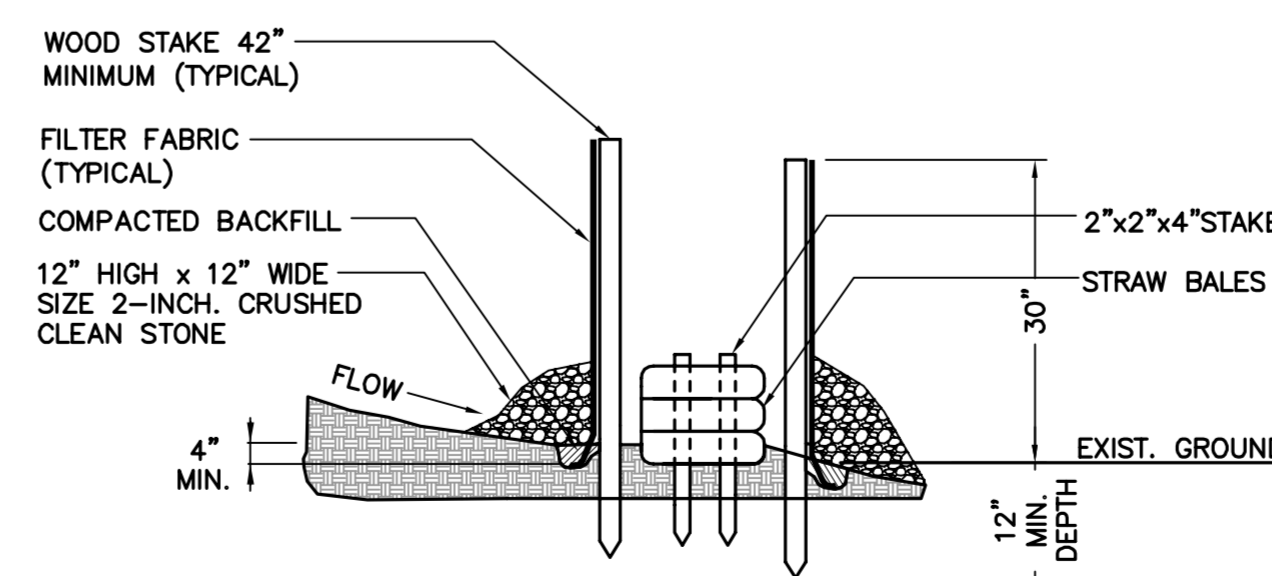
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLE/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM[™], STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" APART AND 4" ON CENTER TO SECURE BLANKETS.
- FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" AND STAPLED TO ENSURE PROPER SEAM ALIGNMENT. PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH[™] ON THE BLANKET BEING OVERLAPPED.
- THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- REFER TO MANUFACTURERS STAPLE GUIDE FOR CORRECT STAPLE PATTERN. MINIMUM 4 SPIKES PER ONE SQ. FT. THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO REESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEED, AND REMULCHED AS DIRECTED.

MAINTENANCE

THE CONTRACTOR SHALL MAINTAIN THE BLANKET UNTIL ALL WORK ON THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MAINTENANCE SHALL CONSIST OF THE REPAIR OF AREAS WHERE DAMAGED BY ANY CAUSE. ALL DAMAGED AREAS SHALL BE REPAIRED TO RE-ESTABLISH THE CONDITIONS AND GRADE OF THE SOIL PRIOR TO APPLICATION OF THE COVERING AND SHALL BE REFERTILIZED, RESEED, AND REMULCHED AS DIRECTED.



2 SILTATION FENCE DETAIL
C-4 NOT TO SCALE



1 SILTATION FENCE/STRAW BALE SILTATION FENCE "SANDWICH" EROSION CONTROL
C-4 NOT TO SCALE

GENERAL CONSTRUCTION / PRE-CONSTRUCTION NOTES

- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES, A MANDATORY ON-SITE PRE-CONSTRUCTION MEETING SHALL BE CONDUCTED WITH THE AT&T CONSTRUCTION MANAGER, CONTRACTOR'S CONSTRUCTION MANAGER, THE PROJECT EROSION AND SEDIMENTATION CONTROL/ENVIRONMENTAL MONITOR AND THE ENGINEER OF RECORD.

GENERAL CONSTRUCTION SEQUENCE

THIS IS A GENERAL CONSTRUCTION SEQUENCE OUTLINE SOME ITEMS OF WHICH MAY NOT APPLY TO PARTICULAR SITES.

- CUT AND STUMP AREAS OF PROPOSED CONSTRUCTION.
- INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES AS REQUIRED.
- REMOVE AND STOCKPILE TOPSOIL. STOCKPILE SHALL BE SEED TO PREVENT EROSION.
- CONSTRUCT CLOSED DRAINAGE SYSTEM. PRECEPT CULVERT INLETS AND CATCH BASINS WITH SEDIMENTATION BARRIERS.
- CONSTRUCT ROADWAYS AND PERFORM SITE GRADING, PLACING HAY BALES AND SILTATION FENCES AS REQUIRED TO CONTROL SOIL EROSION.
- INSTALL UNDERGROUND UTILITIES.
- BEGIN TEMPORARY AND PERMANENT SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEED OR MULCHED IMMEDIATELY AFTER THEIR CONSTRUCTION. NO AREA SHALL BE LEFT UNSTABILIZED FOR A TIME PERIOD OF MORE THAN 30 DAYS.
- DAILY, OR AS REQUIRED, CONSTRUCT, INSPECT, AND IF NECESSARY, RECONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, SILT FENCES AND SEDIMENT TRAPS INCLUDING MULCHING AND SEEDING.
- BEGIN EXCAVATION FOR AND CONSTRUCTION OF TOWERS AND PLATFORMS.
- FINISH PAVING ALL ROADWAYS, DRIVES, AND PARKING AREAS.
- COMPLETE PERMANENT SEEDING AND LANDSCAPING.
- NO FLOW SHALL BE DIVERTED TO ANY WETLANDS UNTIL A HEALTHY STAND OF GRASS HAS BEEN ESTABLISHED IN REGARDED AREAS.
- AFTER GRASS HAS BEEN FULLY GERMINATED IN ALL SEEDING AREAS, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES.

SOIL EROSION AND SEDIMENT CONTROL SEQUENCE

- ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS CONSTRUCTION ENTRANCE / ANTI TRACKING PAD, SILTATION FENCE, AND SILTATION FENCE / STRAW BALE SHALL BE IN PLACE PRIOR TO ANY GRADING ACTIVITY, INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. MEASURES SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND/OR AREA IS STABILIZED.
- THE ENTRANCE TO THE PROJECT SITE IS TO BE PROTECTED BY STONE ANTI TRACKING PAD OF ASTM C-33, SIZE NO. 2 OR 3, OR D.O.T. 2" CRUSHED GRAVEL. THE STONE ANTI TRACKING PAD IS TO BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PERIOD.
- LAND DISTURBANCE WILL BE KEPT TO A MINIMUM AND RESTABILIZATIONS WILL BE SCHEDULED AS SOON AS PRACTICAL.
- ALL SOIL EROSION AND SEDIMENT CONTROL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL INCLUDING THE LATEST DATE FROM THE COUNCIL ON SOIL AND WATER CONSERVATION.
- ANY ADDITIONAL EROSION/SEDIMENTATION CONTROL DEEMED NECESSARY BY TOWN STAFF DURING CONSTRUCTION, SHALL BE INSTALLED BY THE DEVELOPER. IN ADDITION, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE REPAIR/REPLACEMENT/MAINTENANCE OF ALL EROSION CONTROL MEASURES UNTIL ALL DISTURBED AREAS ARE STABILIZED TO THE SATISFACTION OF THE TOWN STAFF.
- IN ALL AREAS, REMOVAL OF TREES, BUSHES AND OTHER VEGETATION AS WELL AS DISTURBANCE OF THE SOIL IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE. DURING CONSTRUCTION, EXPOSE AS SMALL AN AREA OF SOIL AS POSSIBLE FOR AS SHORT A TIME AS POSSIBLE.
- SILTATION FENCE SHALL BE PLACED AS INDICATED BEFORE A CUT SLOPE HAS BEEN CREATED. SEDIMENT DEPOSITS SHOULD BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF SILTATION FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR TO BE USED IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. SILTATION FENCE IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.
- SWALE DISCHARGE AREA WILL BE PROTECTED WITH RIP RAP SPLASH PAD/ ENERGY DISSIPATER.
- ALL FILL AREAS SHALL BE COMPACTED SUFFICIENTLY FOR THEIR INTENDED PURPOSE AND AS REQUIRED TO REDUCE SLIPPING, EROSION OR EXCESS SATURATION.
- THE SOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION. WHEN THE SUBGRADE IS EXCESSIVELY WET, OR IN A CONDITION THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
- AFTER CONSTRUCTION IS COMPLETE AND GROUND IS STABLE, REMOVE SILTS IN THE RIP RAP ENERGY DISSIPATERS. REMOVE OTHER EROSION AND SEDIMENT DEVICES.

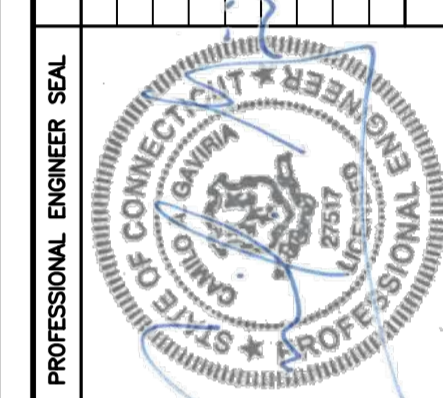
CONSTRUCTION SPECIFICATIONS - SILT FENCE

- THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.
- THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCE SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION AND BOTTOM.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED, AND STAPLED.
- FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BUILD UP IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

MAINTENANCE - SILT FENCE

- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACHED APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATED.

REV.	DATE	DRAWN BY	CHECK'D BY	CAG	CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING	DESCRIPTION
0	04/27/17	KAW				



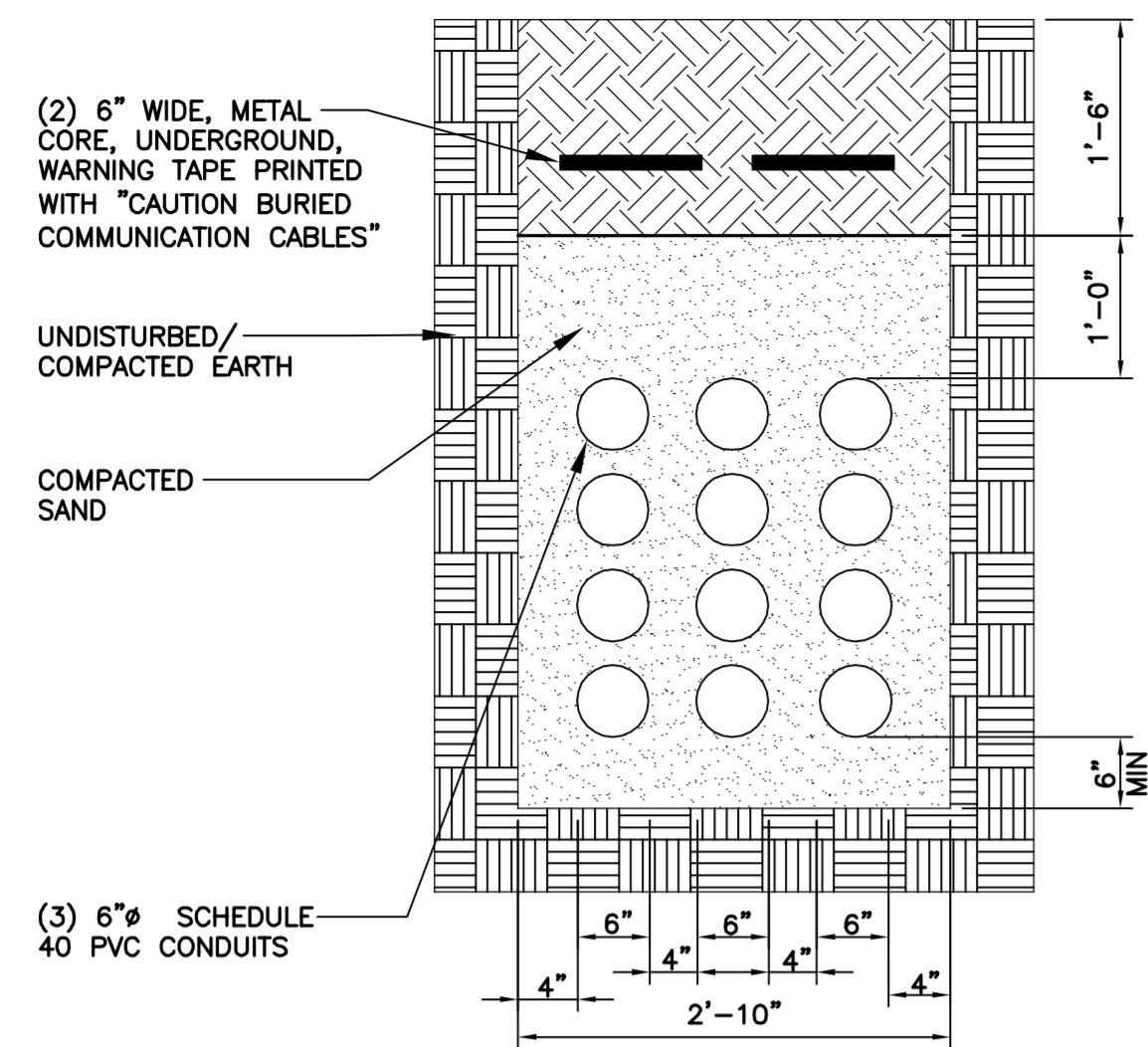
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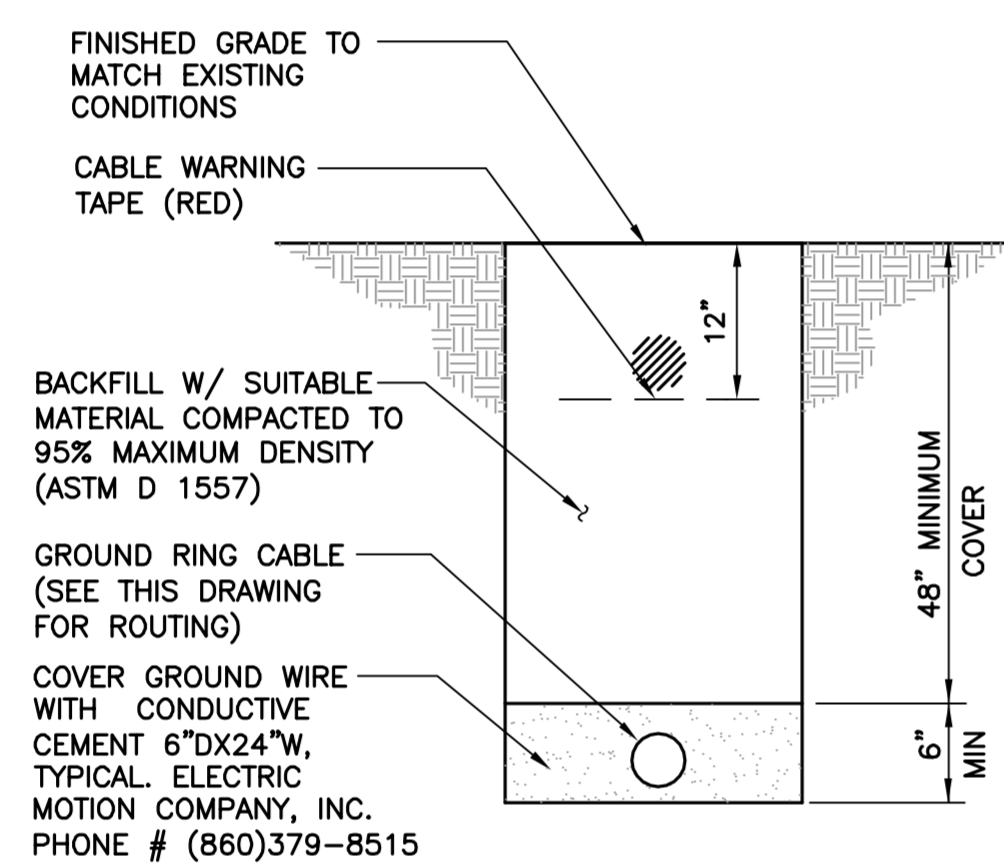
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SITE CONSTRUCTION,
S&E CONTROL
NOTES & DETAILS

C-4
Sheet No. 7 of 25

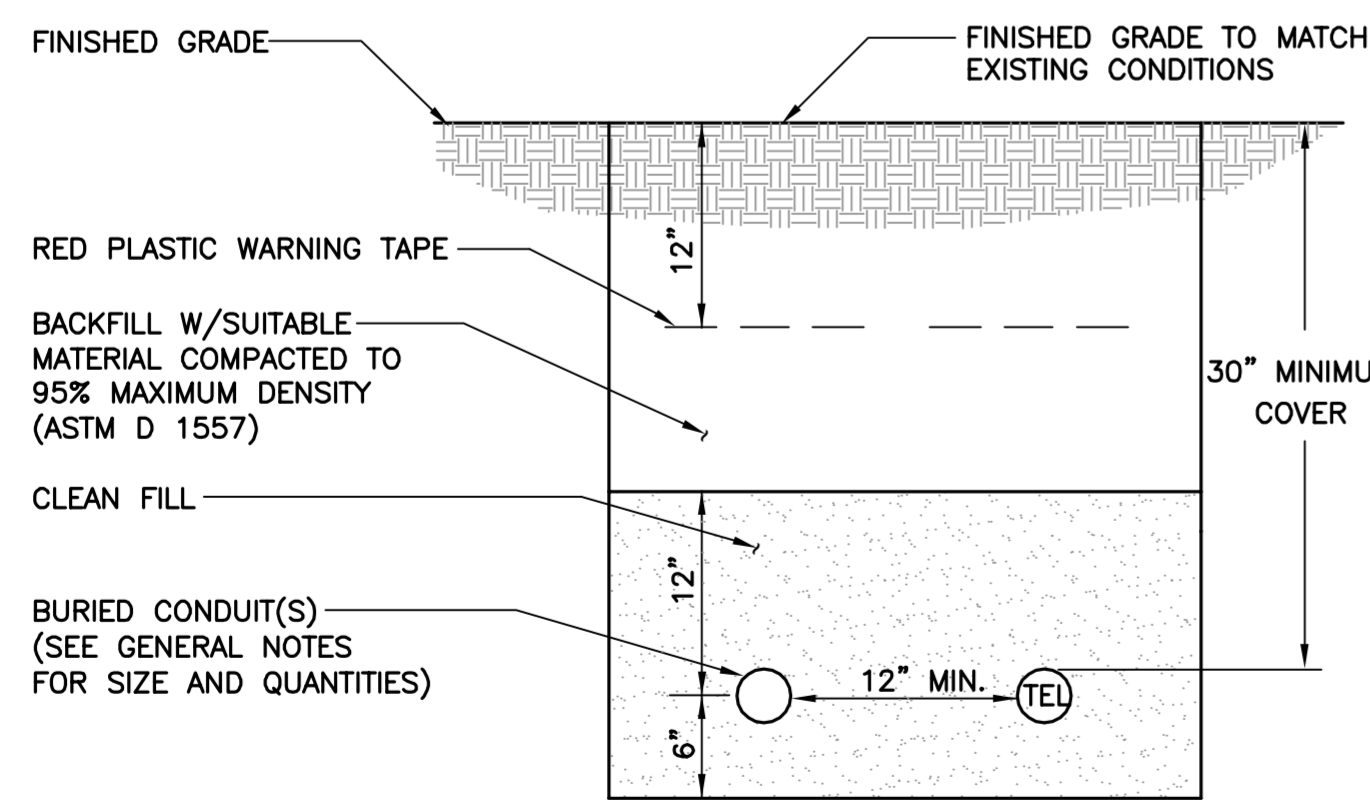


10 COAX DUCT BANK SECTION
C-5 NOT TO SCALE



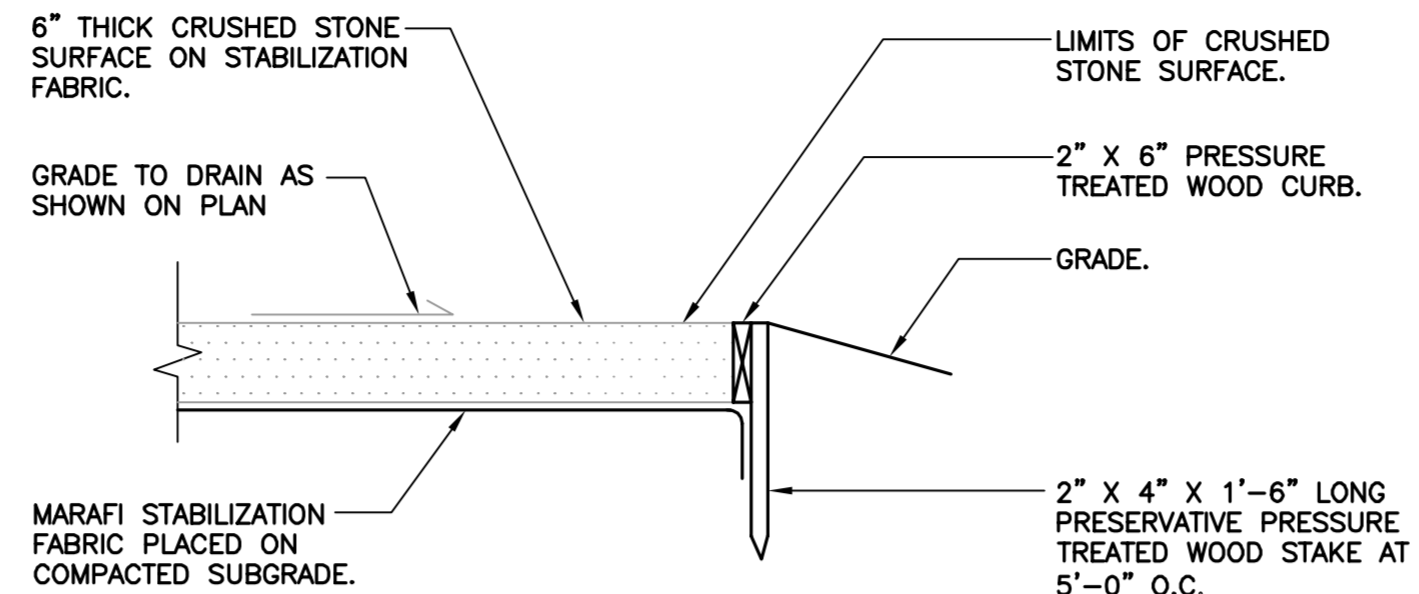
- NOTES:**
- BACK FILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
 - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

9 TYPICAL BURIAL GROUND CABLE DETAIL
C-5 NOT TO SCALE

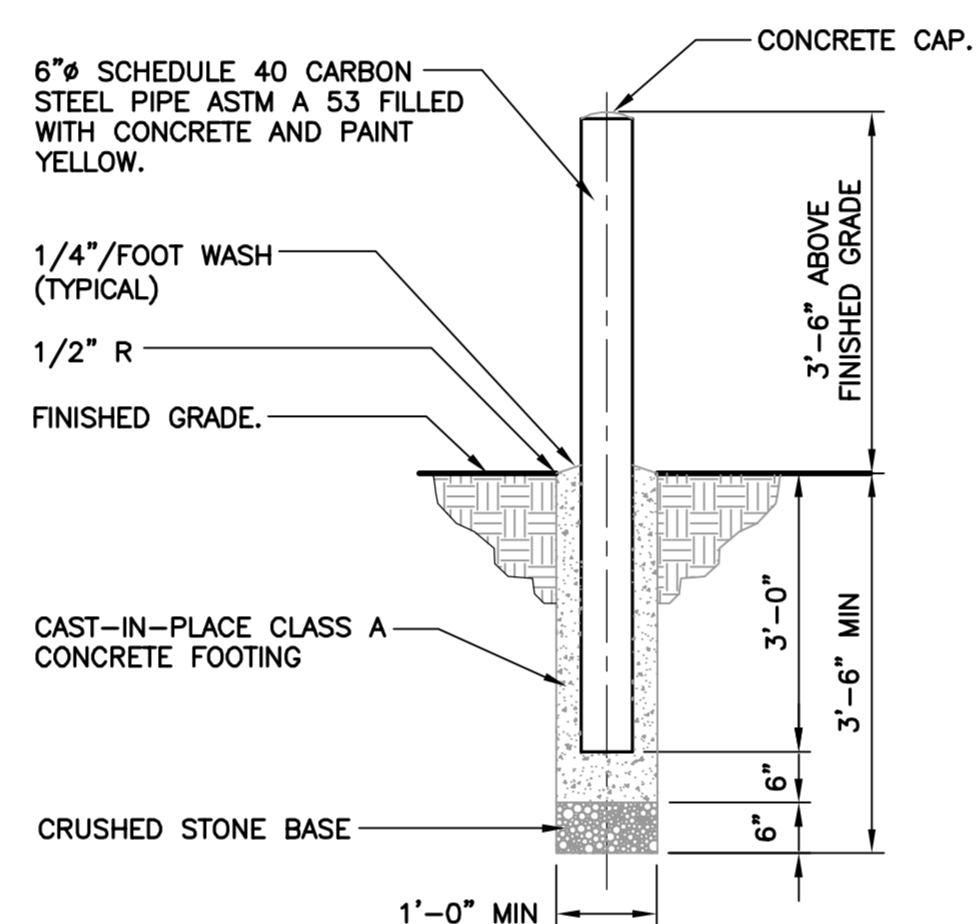


- NOTES:**
- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION.
 - WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.

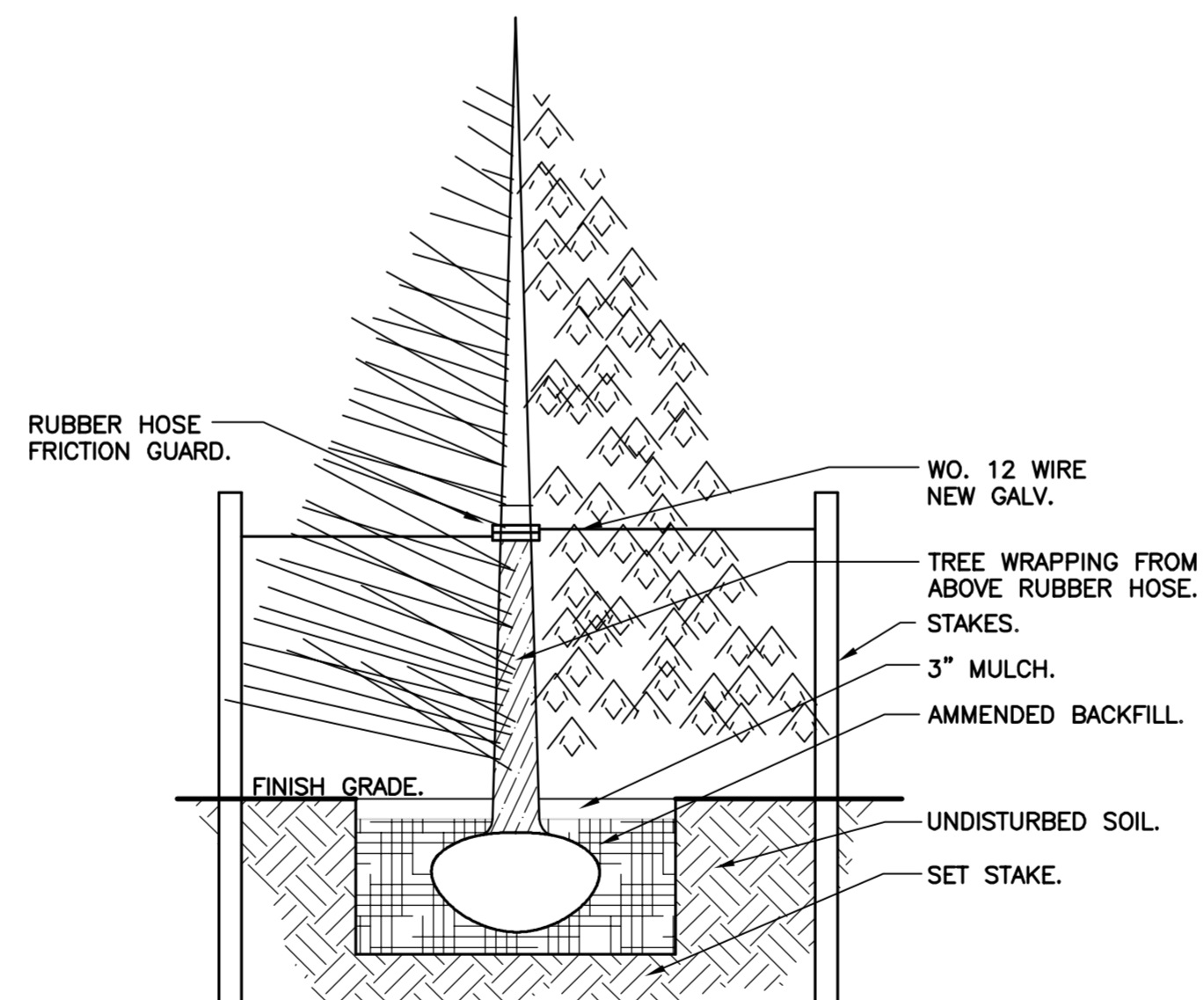
8 TYPICAL ELECTRICAL/TEL TRENCH DETAIL
C-5 NOT TO SCALE



7 COMPOUND SURFACING DETAIL
C-5 NOT TO SCALE



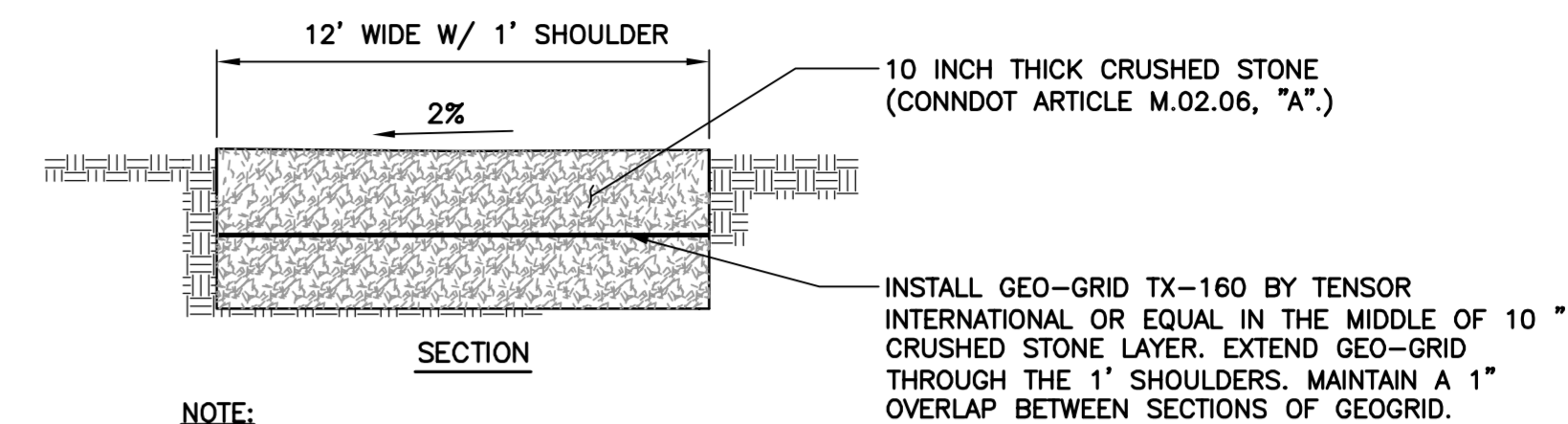
6 BOLLARD DETAIL
C-5 NOT TO SCALE



TREE + SHRUB PLANTING SPECIFICATIONS:

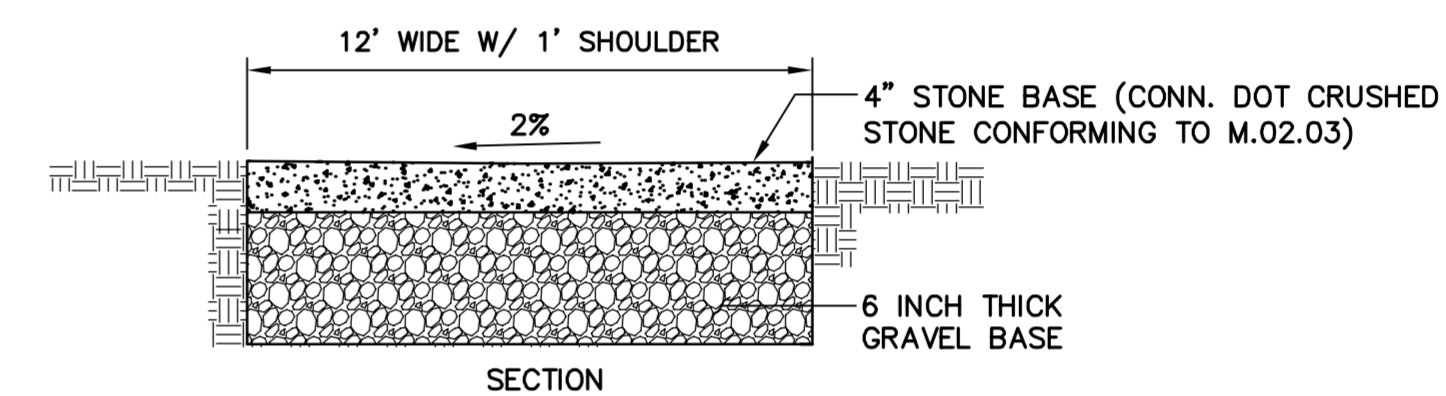
- GUY WIRES (WO.12 NEW GALV.) SHALL BE REQUIRED FOR ALL TREES 3 GAL. AND LARGER.
- SOIL MIX SHALL CONSIST OF: 3 PARTS TOP SOIL, 3 PART PEAT MOSS, 10 ONE PART COMPOSTED COW MANURE, AND 1 OZ. SOIL MOIST PER EVERY 12 IN. OF LINEAR DIM. OF ROOT BALL. COVER WITH LANDSCAPE FABRIC, AND A MINIMUM OF 3" CEDAR MULCH.
- TREES 6' AND OVER SHALL BE STAKED WITH 2 OAK STAKES 2" X 2" X 6' AND GUY WIRE TO STAKES.
- ALL TREES AND SHRUBS MUST MEET OR EXCEED STANDARDS SET BY THE NATIONAL ASSOCIATION OF NURSERYMEN, YEAR OF LATEST REVISION.

5 TYPICAL TREE PLANTING DETAIL
C-5 NOT TO SCALE

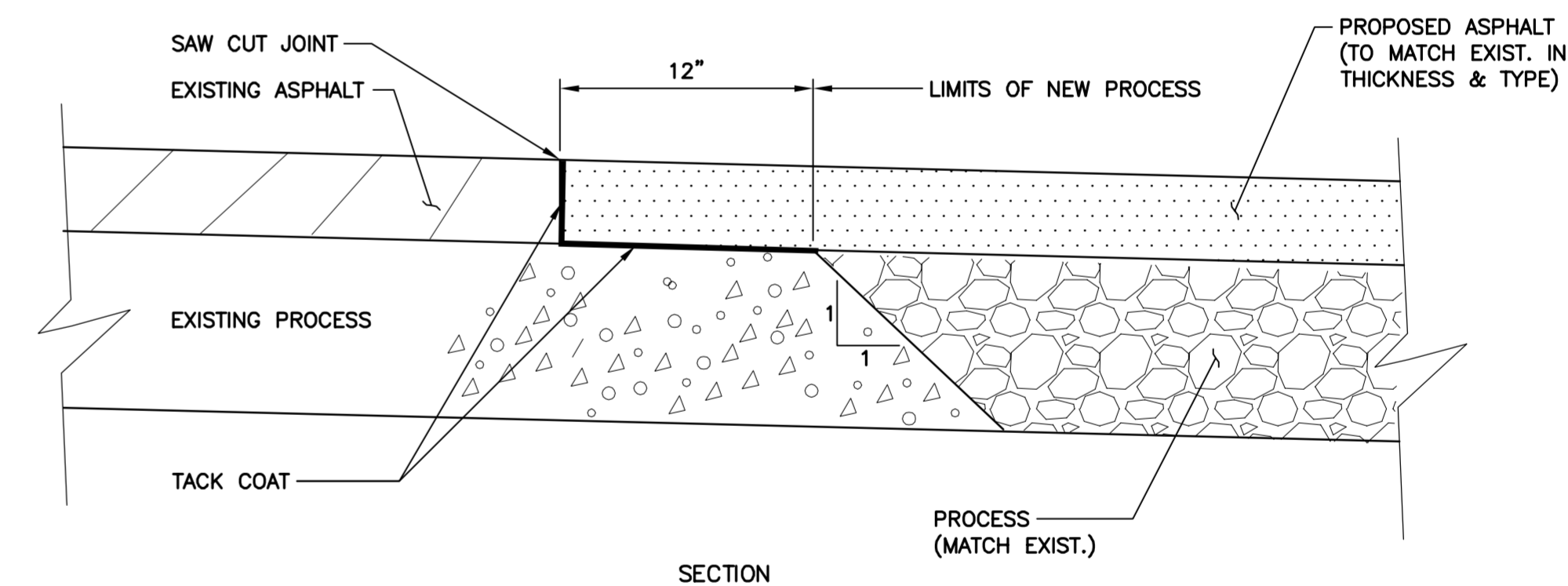


NOTE:
1. SEE SITE PLAN FOR LOCATION

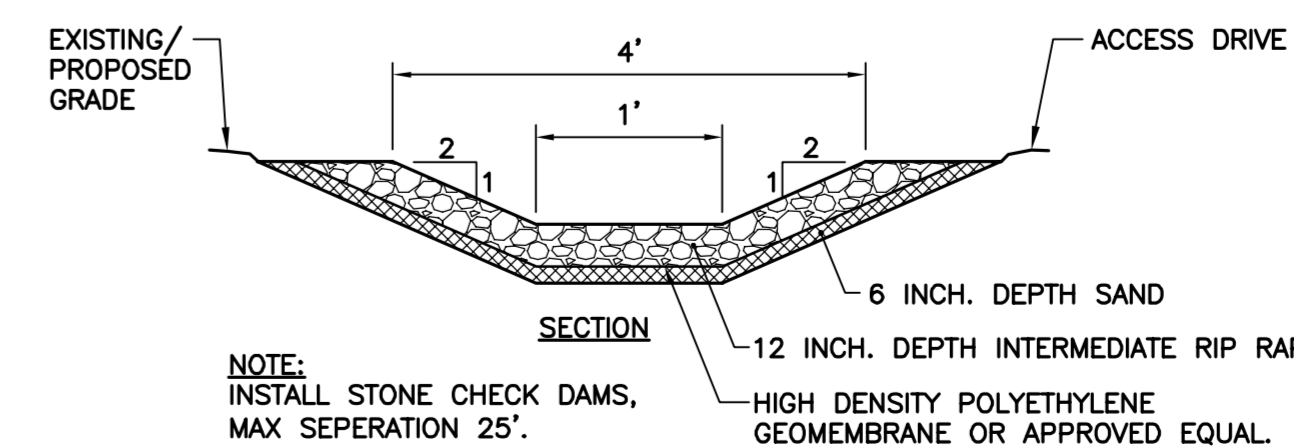
4 GRAVEL ACCESS DRIVE W/ GEOGRID REINFORCEMENT
C-5 NOT TO SCALE



3 GRAVEL SURFACE PARKING AREA AND ACCESS DRIVE
C-5 NOT TO SCALE



2 PAVEMENT REPAIR (SAWCUT) DETAIL
C-5 NOT TO SCALE

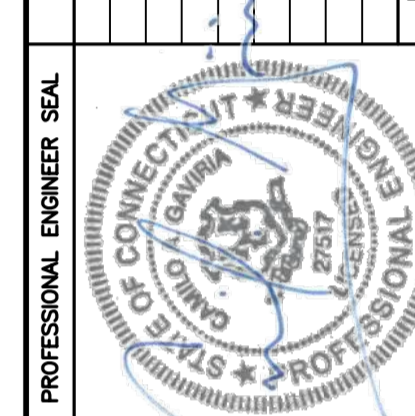


NOTE:
INSTALL STONE CHECK DAMS, MAX SEPERATION 25'.
HIGH DENSITY POLYETHYLENE GEOMEMBRANE OR APPROVED EQUAL.

1 RIP RAP SWALE
C-5 NOT TO SCALE

MODIFIED RIP RAP SIZE CHART	
STONE SIZE	% OF MASS
10" AND OVER	0
6" TO 10"	30-50
4" TO 6"	30-50
2" TO 4"	20-30
1" TO 2"	10-20
LEES THAN 1"	0-10

REV.	DATE	DESCRIPTION
4	12/04/17	CAG
0	04/27/17	RAW



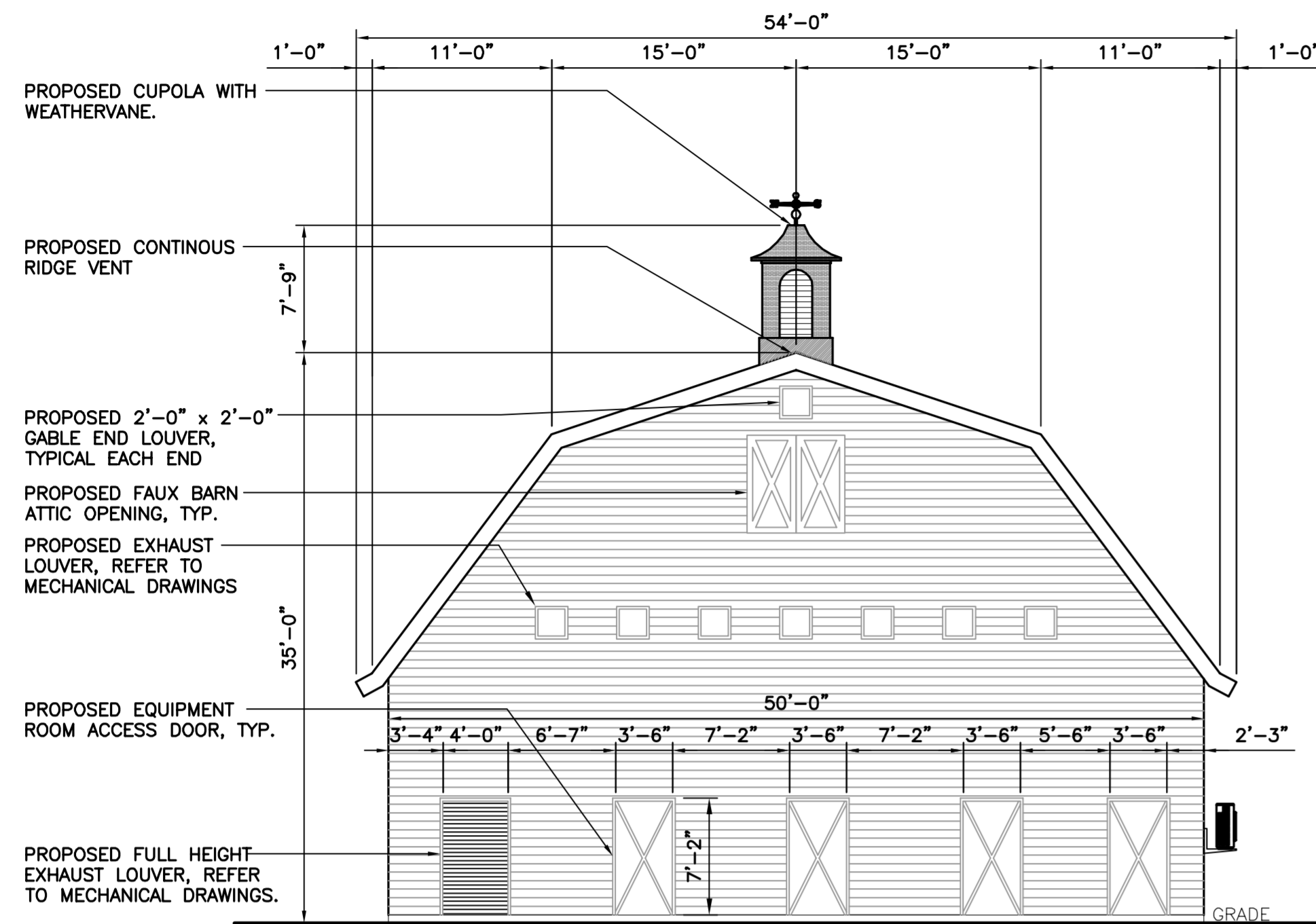
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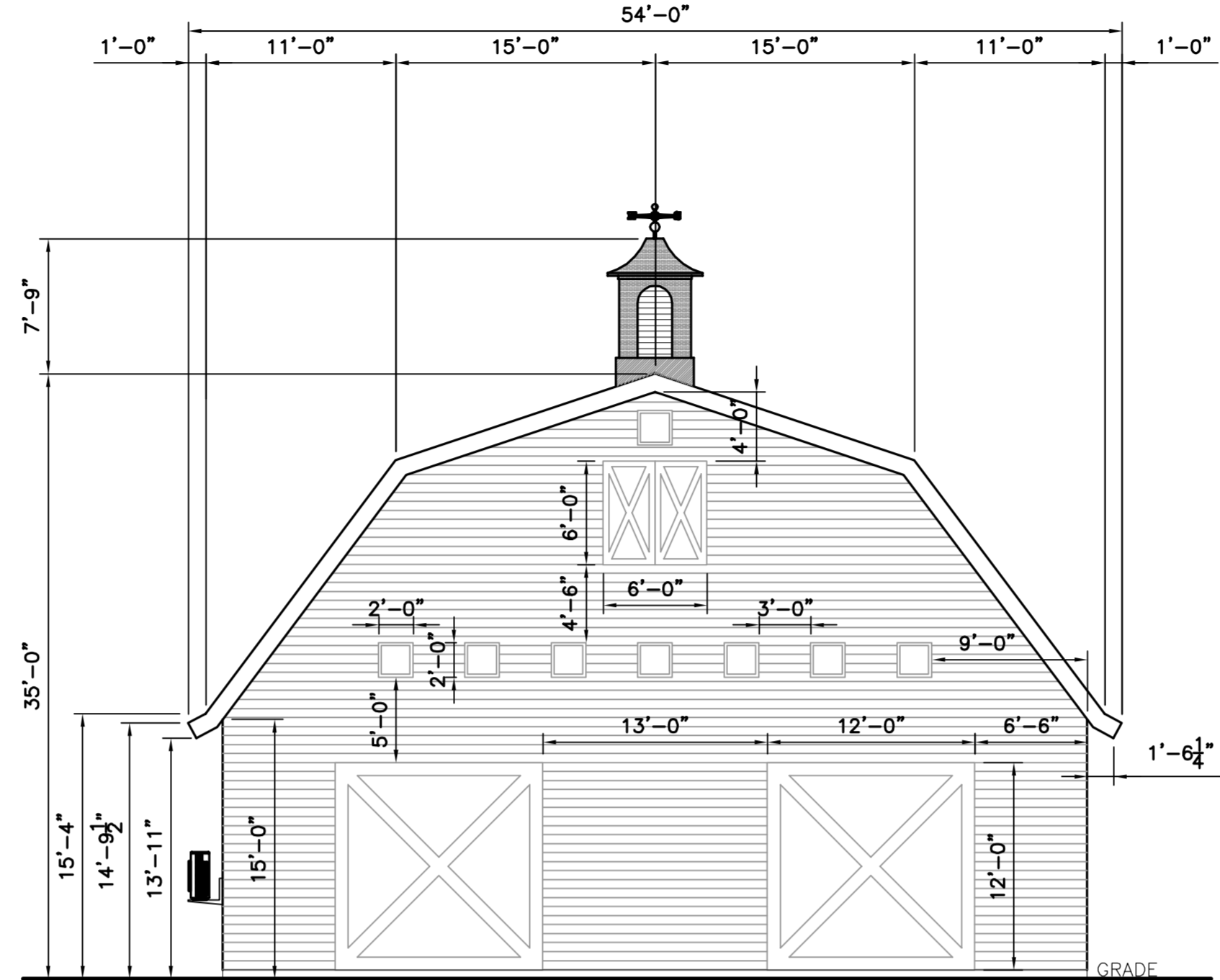
DATE: 03/07/17
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DRAINAGE CONTROL AND SITE DETAILS

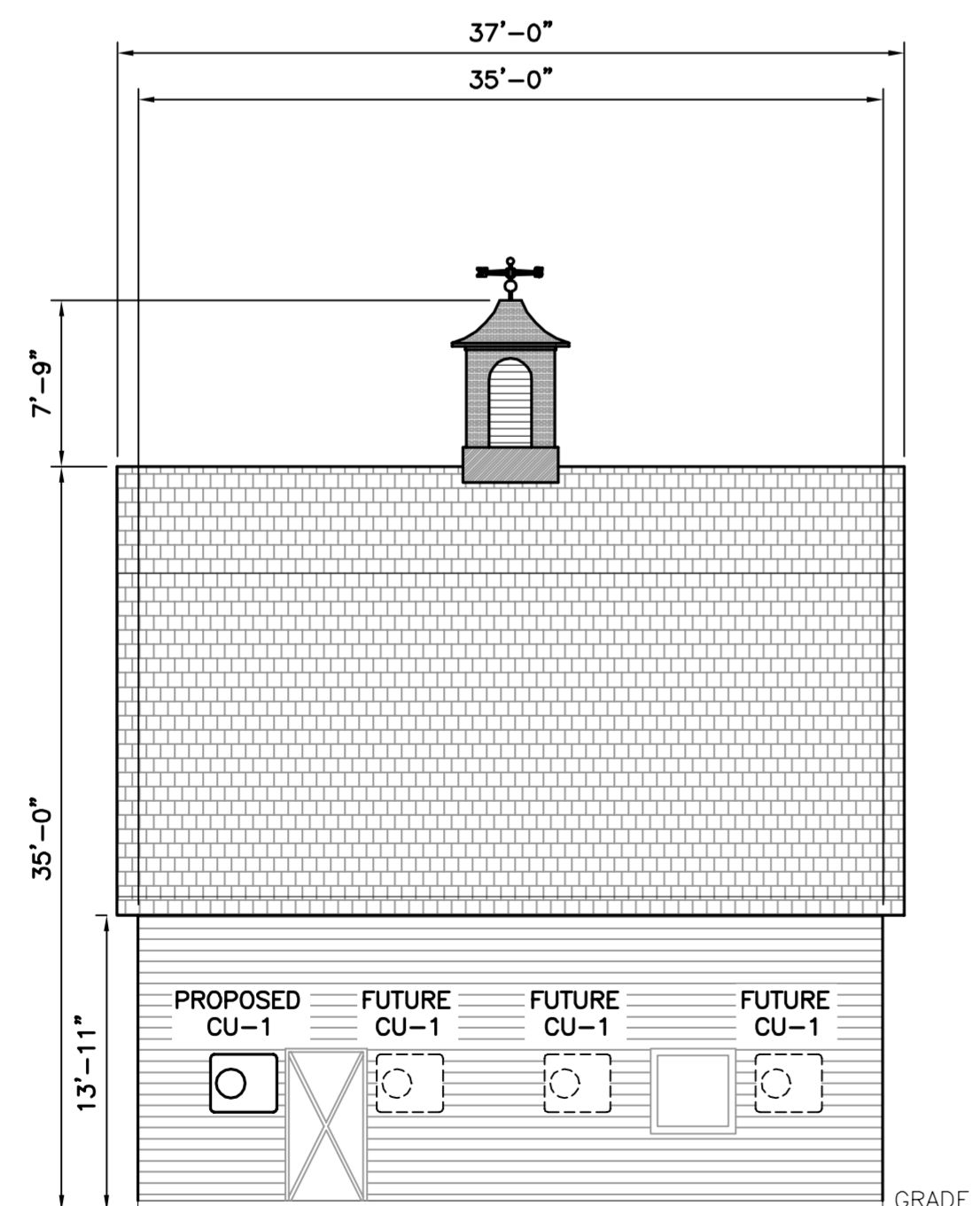
C-5
Sheet No. 8 of 25



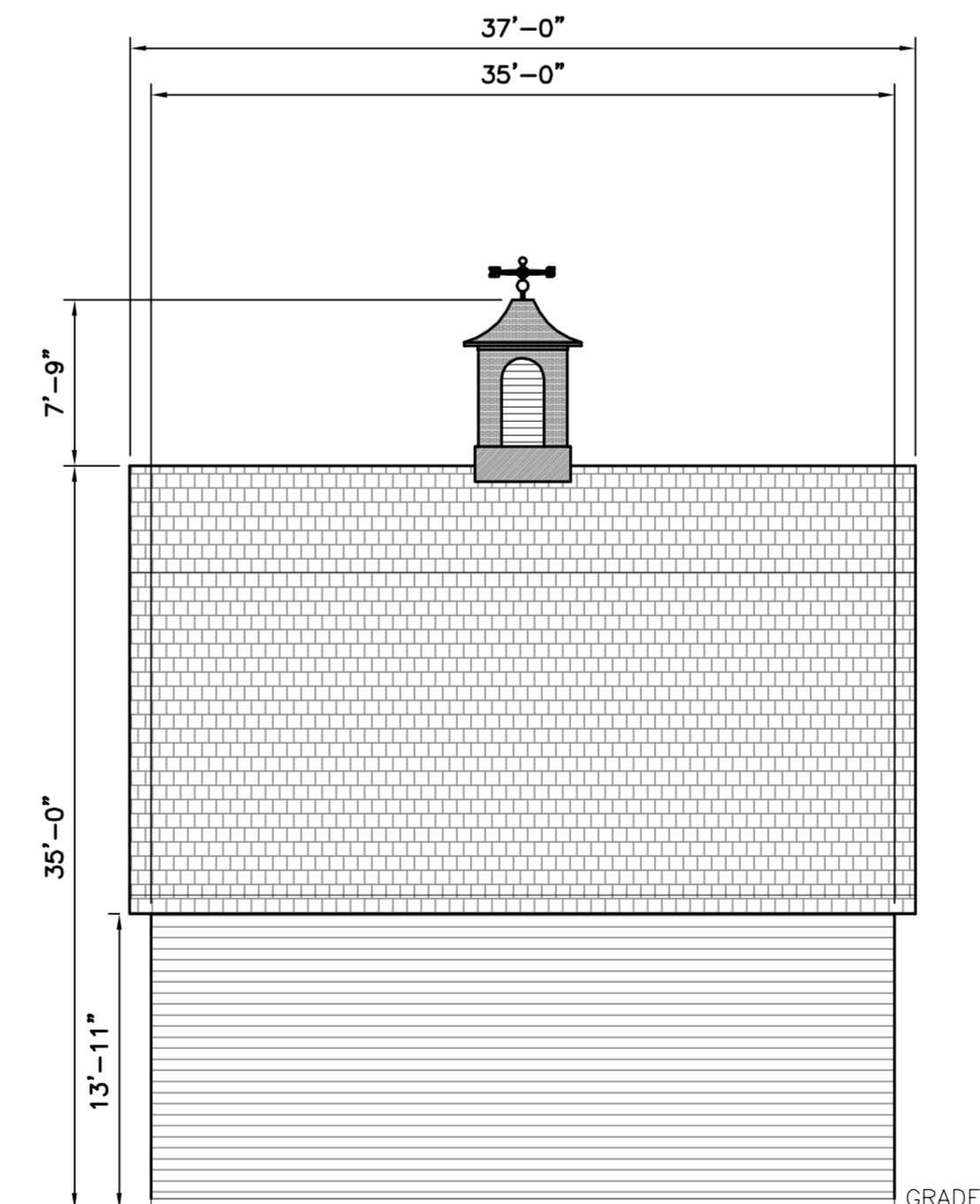
1 NORTHERN SHELTER ELEVATION
C-7 SCALE: 1/8" = 1'-0"



2 SOUTHERN SHELTER ELEVATION
C-7 SCALE: 1/8" = 1'-0"



8 EASTERN SHELTER ELEVATION
C-6 SCALE: 1/8" = 1'-0"



9 WESTERN SHELTER ELEVATION
C-6 SCALE: 1/8" = 1'-0"

EXTERIOR FINISH SCHEDULE		
SIDING	TRIM	ROOFING
BOARD AND BATTEN SIDING. COLOR: RED (FINAL COLOR TO BE SELECTED BY ORCHARDS DEVELOPER)	SOFFIT: ROYAL BUILDING PRODUCTS: ROYAL SOFFIT TRADITIONAL SOFFIT, DOUBLE 4, 0.42 GAUGE EXTERIOR MOULDING AND TRIM: APEX ULTREX SIDING COMPONENTS. COORDINATE WITH SPECIFIED SIDING. COLOR: RED (FINAL COLOR TO BE SELECTED BY ORCHARDS DEVELOPER)	ASPHALT FIBERGLASS ROOFING SHINGLES OVER ICE AND WATER SHIELD. COLOR: TO BE DETERMINED (FINAL COLOR TO BE SELECTED BY ORCHARDS DEVELOPER)

- BUILDING FRAMING MATERIALS**
- SILLS, BUCKS, BLOCKING, CURBING AT ROOF PENETRATIONS AND NAILERS FOR USE IN CONJUNCTION WITH WOOD CONSTRUCTION AND WHERE EXPOSED TO DAMPNESS: ANY SPECIES OF STRUCTURAL LUMBER, CONSTRUCTION GRADE, PRESSURE TREATED, MEETING REQUIREMENTS OF FEDERAL SPECIFICATION TT-W-571.
 - HEADERS, BEAMS, POSTS, AND OTHER STRUCTURAL SUPPORT MEMBERS: SPRUCE-FIR, NO. 2 GRADE OR BETTER (REFER TO STRUCTURAL LUMBER CONSTRUCTION NOTES FOR MORE INFORMATION).
 - STUDS, PLATES, AND OTHER LIGHT FRAMING IF USED: HEM-FIR NO. 2 GRADE OR BETTER (MIN. Fb = 1100 PS).
 - BLOCKING, NAILERS, AND OTHER NON-STRUCTURAL USES: ANY SPECIES OF STRUCTURAL LUMBER, CONSTRUCTION GRADE OR BETTER.
 - SHEATHING PLYWOOD:
ROOF SHEATHING: 5/8" C-C EXT-APA GROUP 1 WITH EXTERIOR GLUE.
WALL SHEATHING: 15/32" C-C EXT-APA GROUP 1
 - BUILDING AIR INFILTRATION WRAP: 15-LB ASPHALT-SATURATED FELT, ASTM D226, OR TYVEK.

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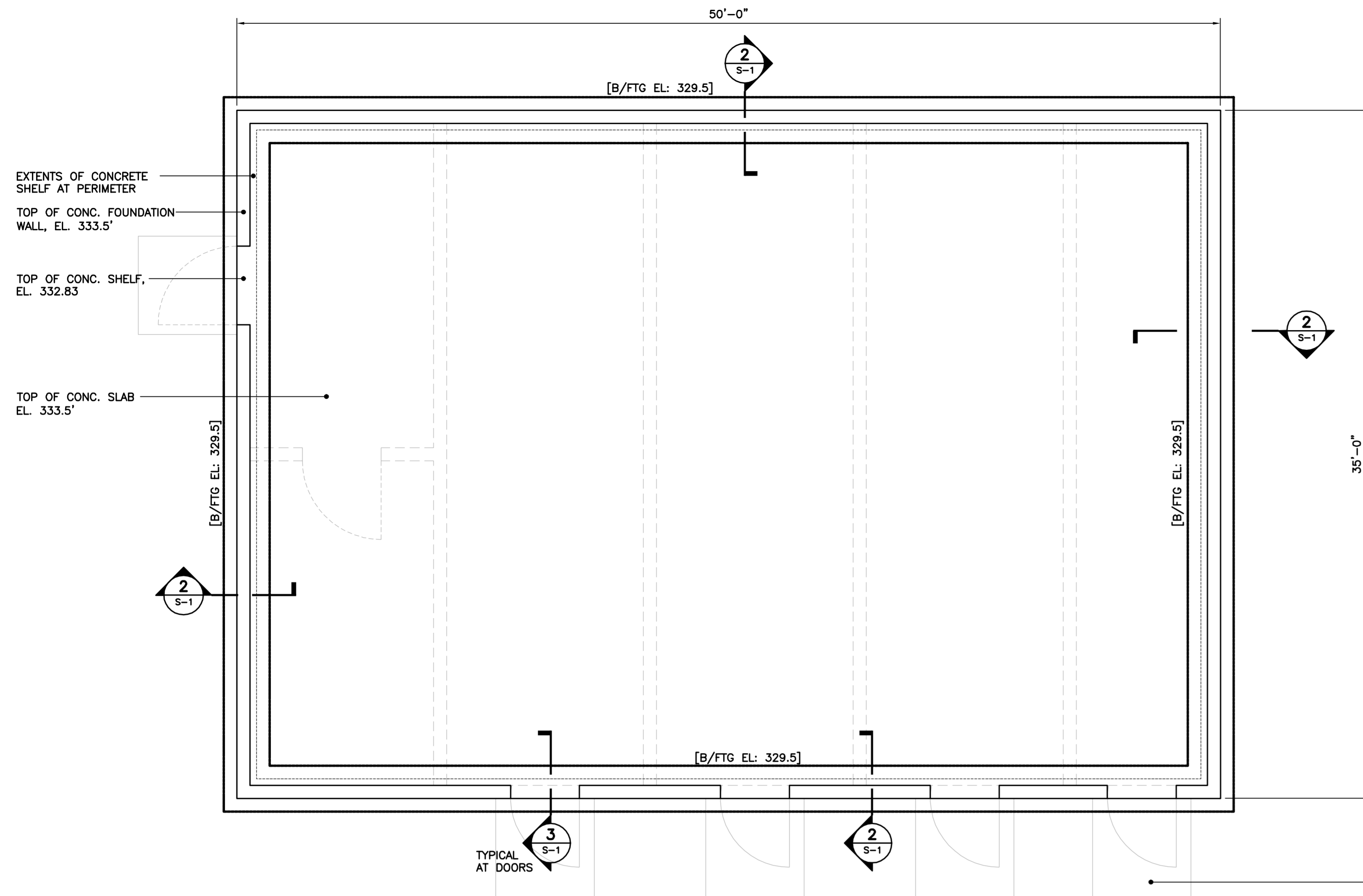
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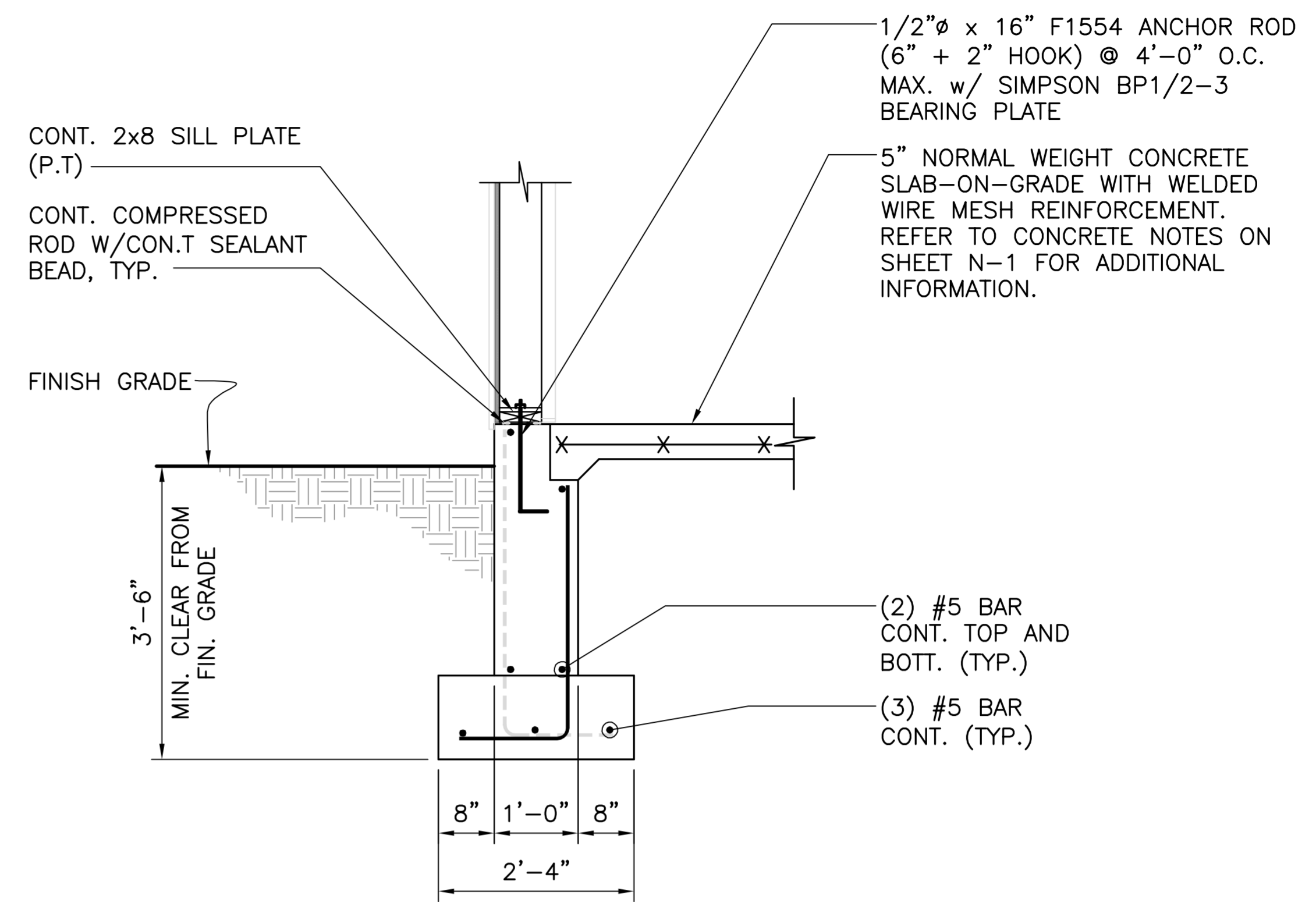
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EQUIPMENT ROOM ELEVATIONS

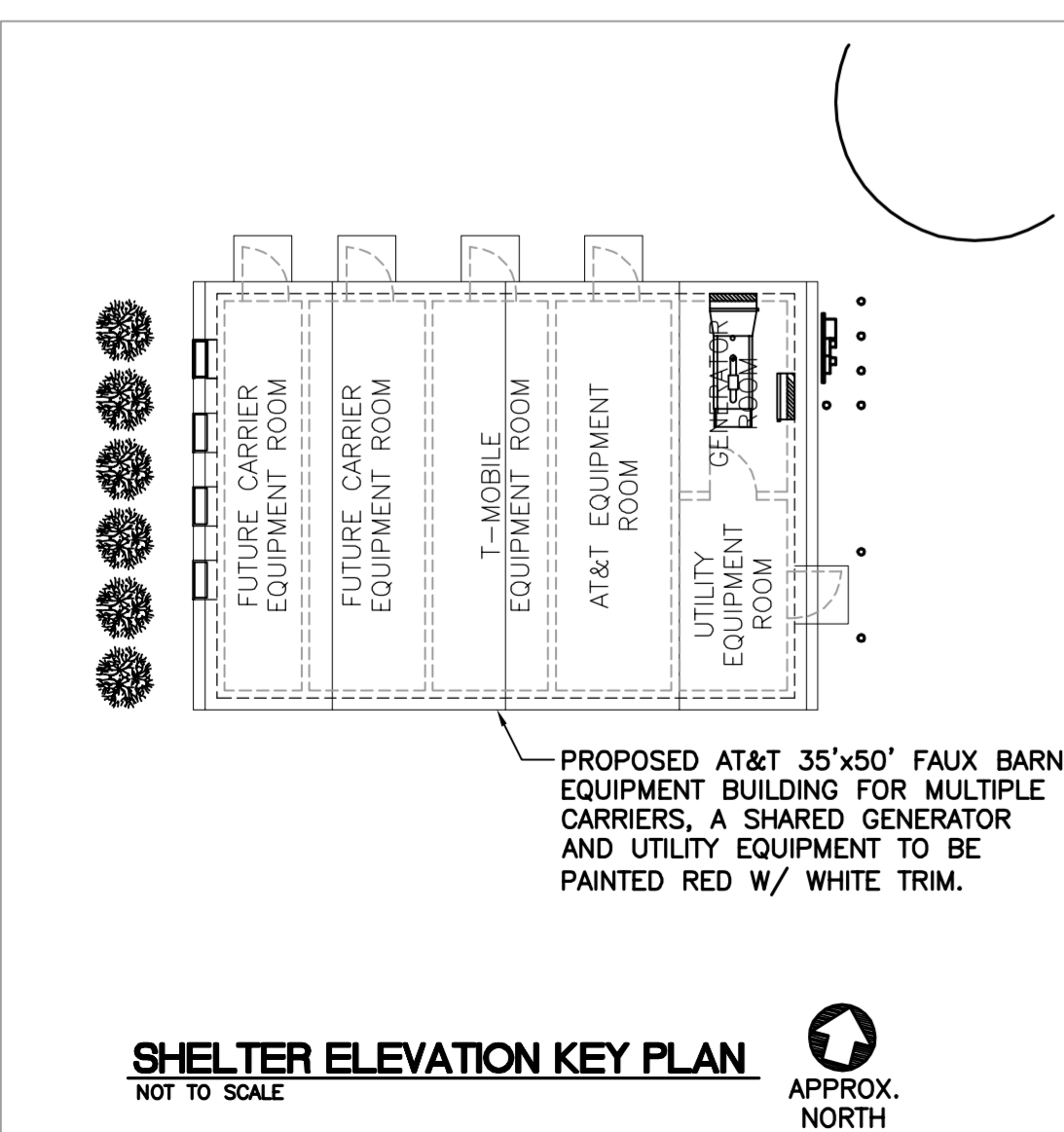
C-7
Sheet No. 10 of 25



1 FOUNDATION PLAN
 SCALE: 1/4" = 1'-0"
 APPROX. NORTH

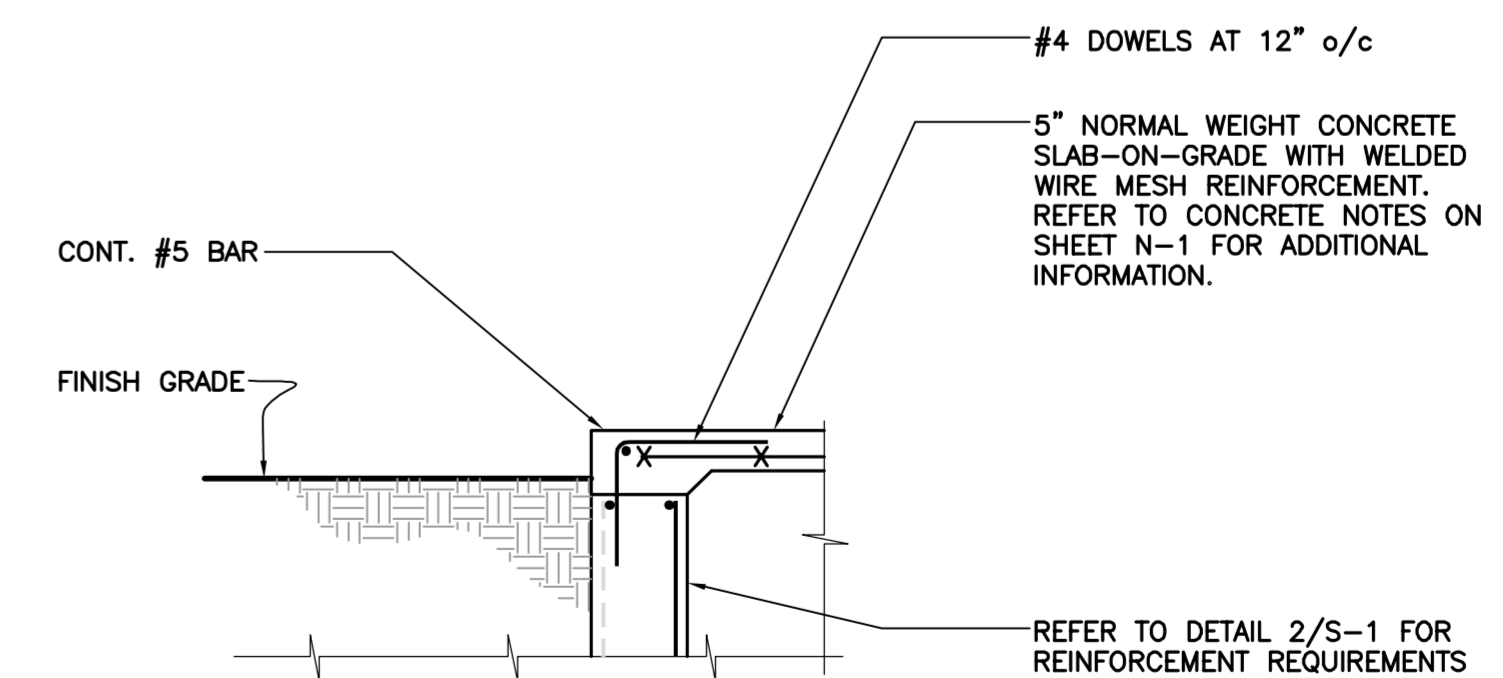


2 FOUNDATION PLAN SLAB ON GRADE
 SCALE: 1/2" = 1'-0"



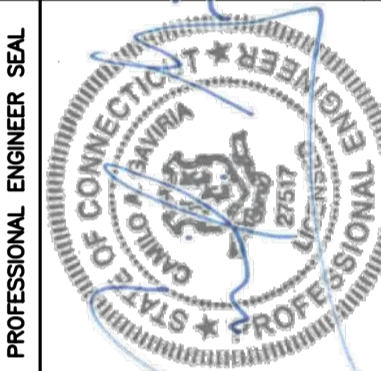
SHELTER ELEVATION KEY PLAN
 NOT TO SCALE
 APPROX. NORTH

PROPOSED 5'x5' CONCRETE STOOP, TYPICAL



3 FOUNDATION SECTION AT EXTERIOR WALL
 SCALE: 1/2" = 1'-0"

REV.	DATE	BY	CHK'D BY	DESCRIPTION
7	05/17/18	KAWIR	CAG	CONSTRUCTION DRAWINGS - REVISED PER TOWERCO COMMENTS
4	12/04/17	CAG	TUL	CONSTRUCTION DRAWINGS - REVISED BARN STRUCTURE
1	08/20/17	CAG	TUL	CONSTRUCTION DRAWINGS - REVISED EQUIPMENT ROOM LAYOUT
0	04/27/17	KAW	CAG	CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING



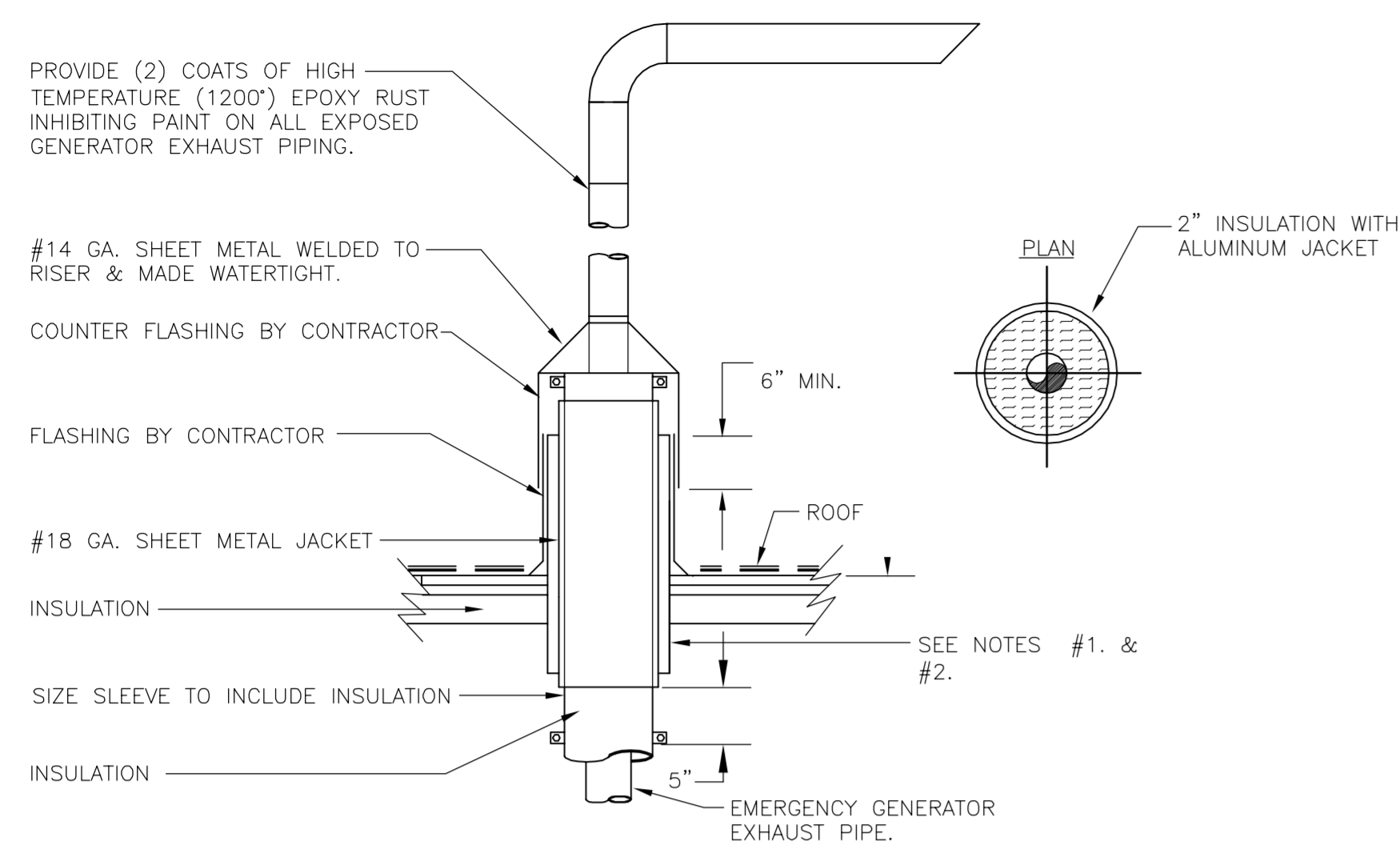
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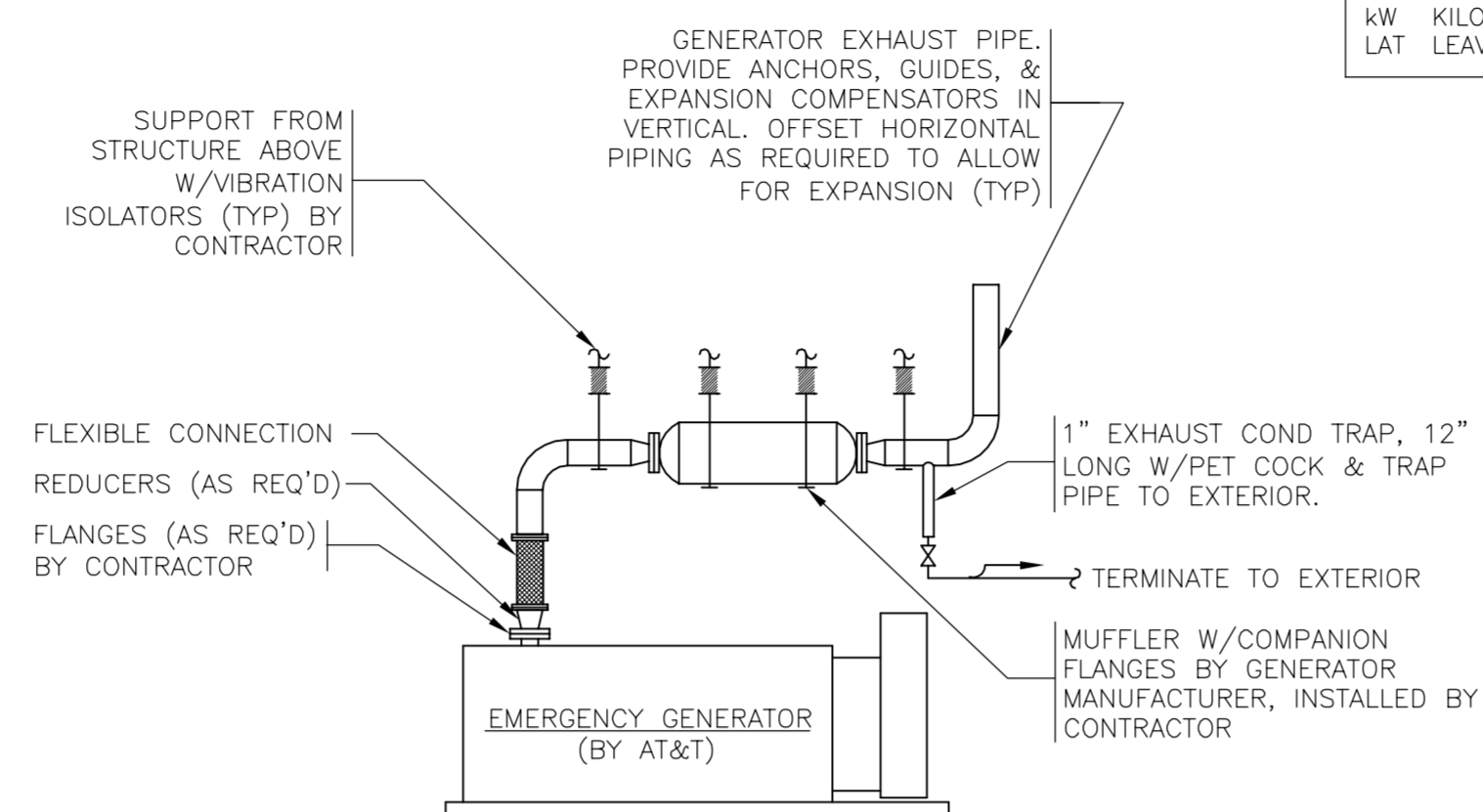
SHELTER FOUNDATION PLAN AND DETAILS

S-1
 Sheet No. 11 of 25



- NOTES:**
1. PACK ANNULAR OPENING IN SLEEVE W/FIRE RETARDANT ROPE.
 2. RING PLATE WELDED TO SLEEVE AND FASTENED TO ROOF.
 3. STACK SHALL BE LOCATED MIN. 30'-0" FROM ANY AIR INTAKE OR OPERABLE WINDOW

1 GENERATOR STACK DETAIL
M-1 N.T.S.



2 GENERATOR EXHAUST DETAIL
M-1 N.T.S.

ABBREVIATIONS	
RSL REFRIGERANT SUCTION LINE	AHU AIR HANDLING UNIT
RLR REFRIGERANT LIQUID LINE	MBH BTU PER HOUR (THOUSAND)
AFF ABOVE FINISHED FLOOR	T THERMOSTAT
BTU BRITISH THERMAL UNIT	TYP TYPICAL
CFM CUBIC FEET PER MINUTE	V VOLTS
EAT ENTERING AIR TEMPERATURE	VEL VELOCITY
EF-#EXHAUST FAN	W WATT
ESP EXTERNAL STATIC PRESSURE	DB DRY BULB
FPM FEET PER MINUTE	WB WET BULB
HP HORSEPOWER	CP CONTROL PANEL
KW KILOWATTS	L-# LOUVER
LAT LEAVING AIR TEMPERATURE	FC FLEX CONNECTION

HVAC DUCTWORK SYMBOLS	
	DOUBLE LINE DUCTWORK
	FLEXIBLE DUCTWORK
	ROUND RETURN/EXHAUST DUCT RISER
	RECTANGULAR SUPPLY DUCT RISER
	REVERSE ACTING THERMOSTAT
	THERMOSTAT
	HYDROGEN DETECTOR
	EXHAUST FAN
	LOUVER
	FIRE DAMPER
	MOTORIZED AUTOMATIC DAMPER
	LOCAL ALARM LIGHT

FAN SCHEDULE							
SYMBOL	MAKE	MODEL NUMBER	CFM	ESP IN/WG	MOTOR DATA WATTS-VOLT-PH	DRIVE TYPE	REMARKS
EF-1	FANTECH	FG6	200	0.2	70-120-1	DIRECT	ALL

REMARKS:

1. PROVIDE SERVICE SWITCH.
2. POWER FED FROM INVERTER CONNECTED TO EMERGENCY BATTERIES. COORDINATE WITH ELECTRICAL CONTRACTOR.
3. PROVIDE WALL MOUNT HOUSING, FAN GUARD, GRAVITY BACKDRAFT DAMPER.
4. COORDINATE SIZE WITH WALL OPENING.
5. COORDINATE LOCATION WITH OTHER TRADES

LOUVER SCHEDULE									
SYMBOL	MAKE	MODEL NUMBER	CFM	VELOCITY FT/MIN	FREE AREA SF	NOM. WIDTH IN	NOM. HEIGHT IN	PD IN. WG	REMARKS
L-1	GREENHECK	ESD-603	4500	642	7	42	48	.05	ALL
L-2	GREENHECK	ESD-603	4500	750	6	42	42	.05	ALL
L-3	GREENHECK	ESD-603	200	100	2	24	24	.04	ALL

REMARKS:

1. PROVIDE WITH BIRD SCREEN.
2. PROVIDE WITH EXTENDED SILL.
3. PROVIDE WITH BAKED ENAMEL FINISH. COLOR TO BE APPROVED BY OWNER.
4. COORDINATE ALL LOUVER SIZES IN FIELD PRIOR TO ORDERING OR INSTALLATION.

AC UNIT SCHEDULE									
SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	AIRFLOW CFM LOW/HIGH	COOLING BTUH	HEATING BTUH	(VOLTS/PHASE)	WEIGHT	NOTES
AC-1	DAIKIN PKA-A24KA4	WM	SEE PLANS	635/775	24,000	26,000	208-1Ø	46 LBS	ALL

TYPE: WM = WALL MOUNTED

NOTES:

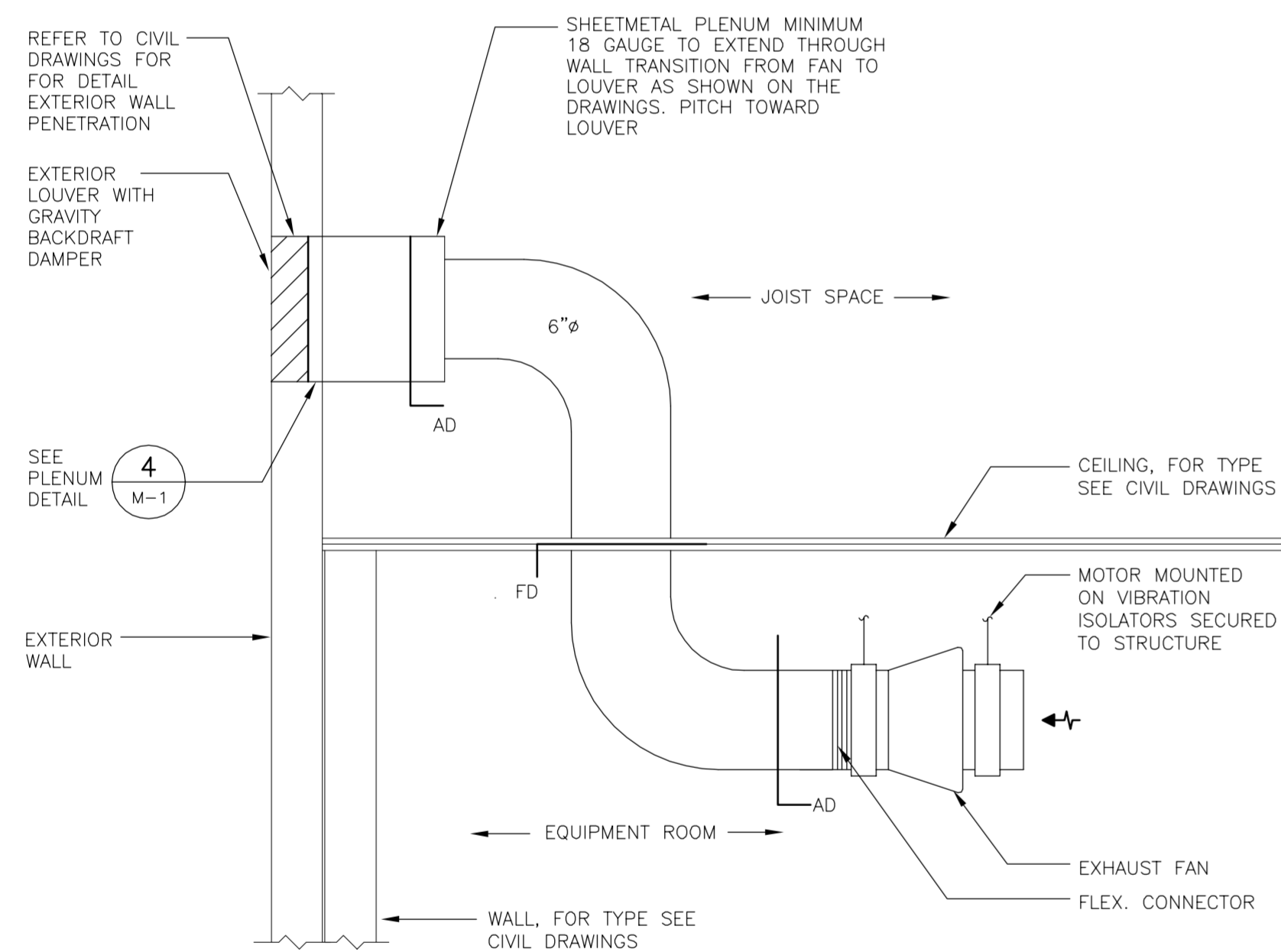
1. PROVIDE ISOLATION BALL VALVES.
2. PROVIDE WITH CONDENSATE PUMP AND 1" COPPER DRAIN PIPE TO EXTERIOR OF BUILDING. COORDINATE LOCATION WITH CONSTRUCTION MANAGER.
3. PROVIDE WITH WIRED CONTROLLER.

AIR COOLED CONDENSING UNIT SCHEDULE							
SYMBOL	MANUFACTURER MODEL NUMBER	TYPE	LOCATION	COOLING CAPACITY MBH	(VOLTS/PHASE)	WEIGHT	NOTES
CU-1	MITSUBISHI PUZ-A24NH44	SS	GRADE	24	208-1Ø	165 LBS	ALL

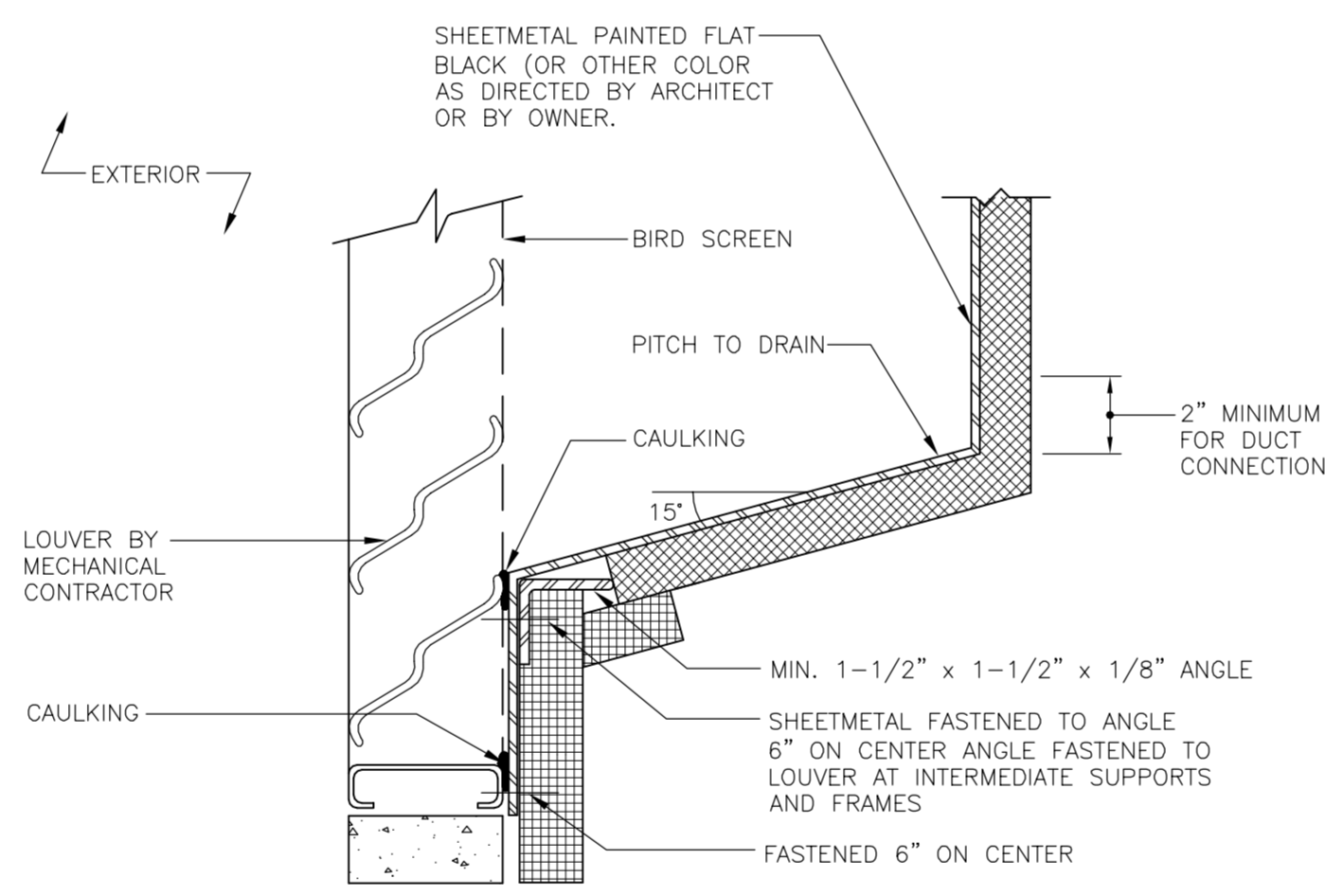
TYPE: SS= SPLIT SYSTEM

NOTES:

1. COORDINATE EXACT LOCATION WITH CONSTRUCTION MANAGER.
2. PROVIDE WITH WALL MOUNTING BRACKET AND HARDWARE.
3. PROVIDE WITH OUTDOOR WIND BAFFLE.



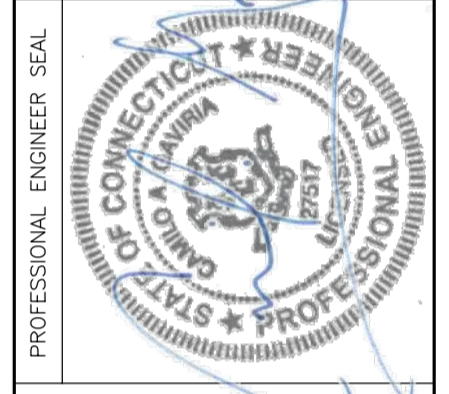
3 EXHAUST FAN DETAIL
M-1 N.T.S.



4 PLENUM LOUVER CONNECTION
M-1 N.T.S.

- NOTES:**
1. SUPPORT PLENUM FROM FLOOR OR STRUCTURE ABOVE W/GALVANIZED STEEL ANGLES AND CHANNELS.

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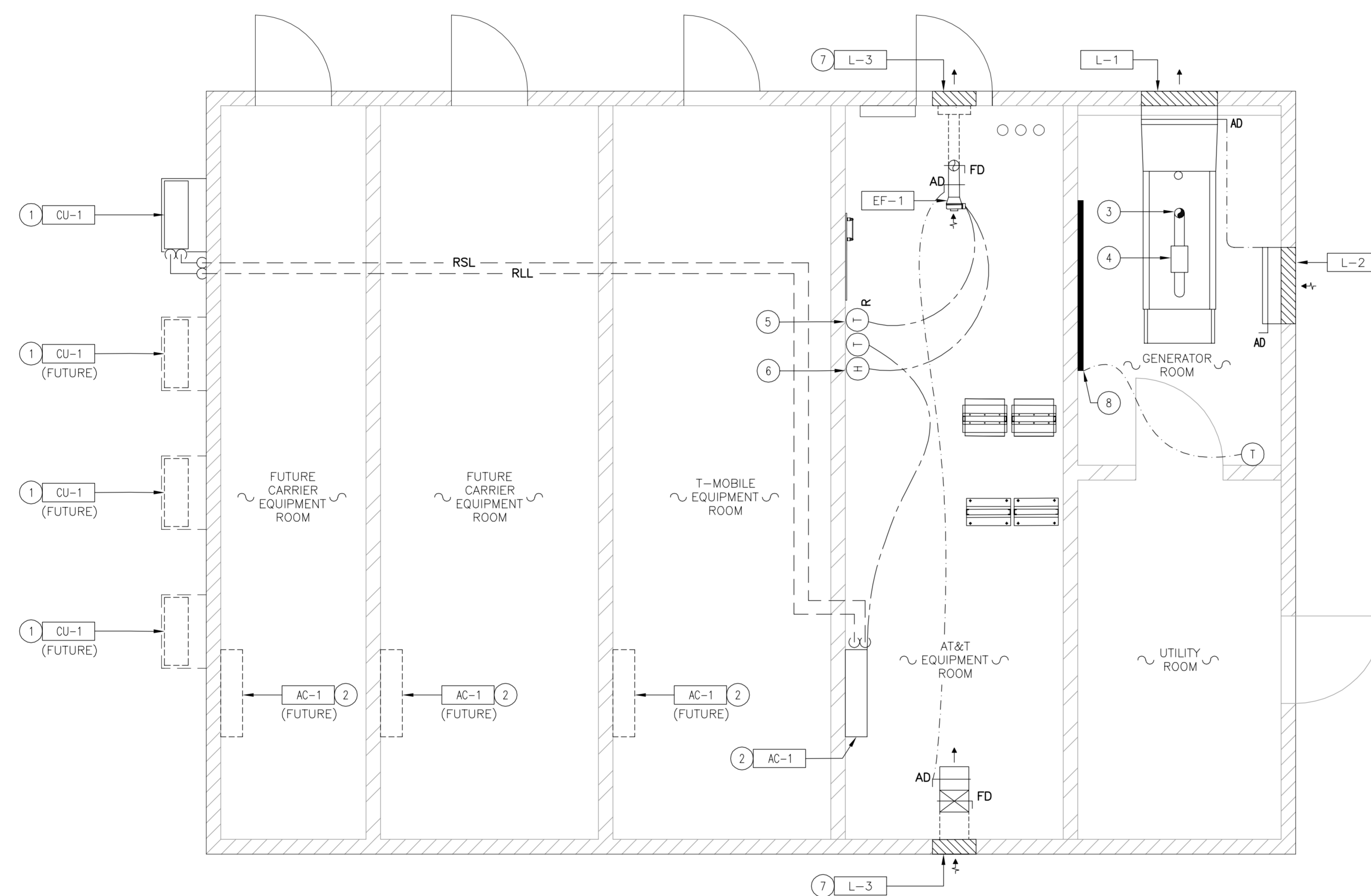
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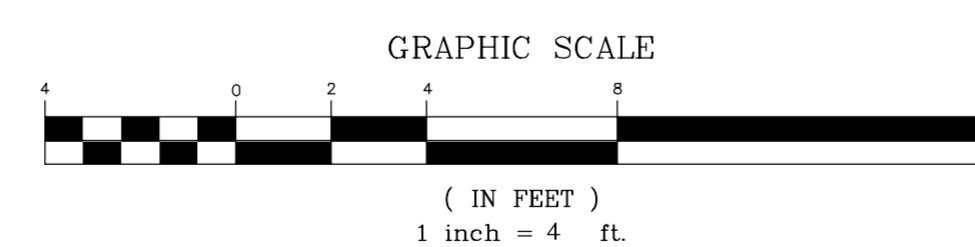
MECHANICAL LEGENDS, DETAILS & SCHEDULES

HVAC WORK NOTES

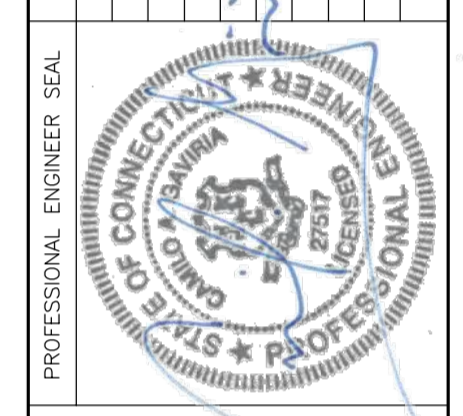
- ① CONDENSING UNITS MOUNTED TO EXTERIOR OF FAUX BARN EQUIPMENT BUILDING AND ASSOCIATED REFRIGERANT PIPING (RLL/RSL). COORDINATE ENTRY LOCATION IN FIELD AND PROVIDE ALL BRACKETS AND SUPPORTS REQUIRED FOR A COMPLETE INSTALLATION.
- ② INDOOR HEAT PUMP UNIT WALL MOUNTED MINIMUM 6'-0" A.F.F. COORDINATE FINAL LOCATION IN FIELD WITH OWNER.
- ③ 2.5"Ø SCHEDULE 40 EXHAUST PIPE THROUGH WALL AND UP. EXTEND EXHAUST PIPE 2'-0" VERTICALLY ABOVE STRUCTURE OR FIXED OBJECTS WITHIN 10'-0" HORIZONTAL OF PIPE. VERIFY IN FIELD.
- ④ EMERGENCY GENERATOR MUFFLER FURNISHED BY AT&T AND INSTALLED BY CONTRACTOR. PROVIDE ALL REQUIRED HANGERS, VIBRATION ISOLATORS, RODS, SUPPLEMENTARY STEEL, ETC. TO HOUSE GENERATOR MUFFLER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO DETAILS 1/M-1 AND 2/M-1.
- ⑤ REVERSE ACTING THERMOSTAT INTERLOCKED WITH EF-1.
- ⑥ PROVIDE HYDROGEN DETECTOR AND INTERLOCK WITH EF-1. INTERNAL RELAY SHALL ACTIVATE EXHAUST FAN WHEN HYDROGEN LEVEL IN SPACE REACHES 1% BY VOLUME.
- ⑦ 24"x24" INTAKE/EXHAUST LOUVERS. REFER TO CIVIL DRAWINGS FOR LOCATION.
- ⑧ ELECTRIC HEATER EQUAL TO DAYTON 3UG29, 5118 BTUH, 240V/1PH, 1500 WATTS, 7.2 AMPS. PROVIDE WITH REMOTE THERMOSTAT.



1 MECHANICAL - GENERATOR / EQUIPMENT ROOM PLAN
 M-2 SCALE: 1/4"=1'-0"



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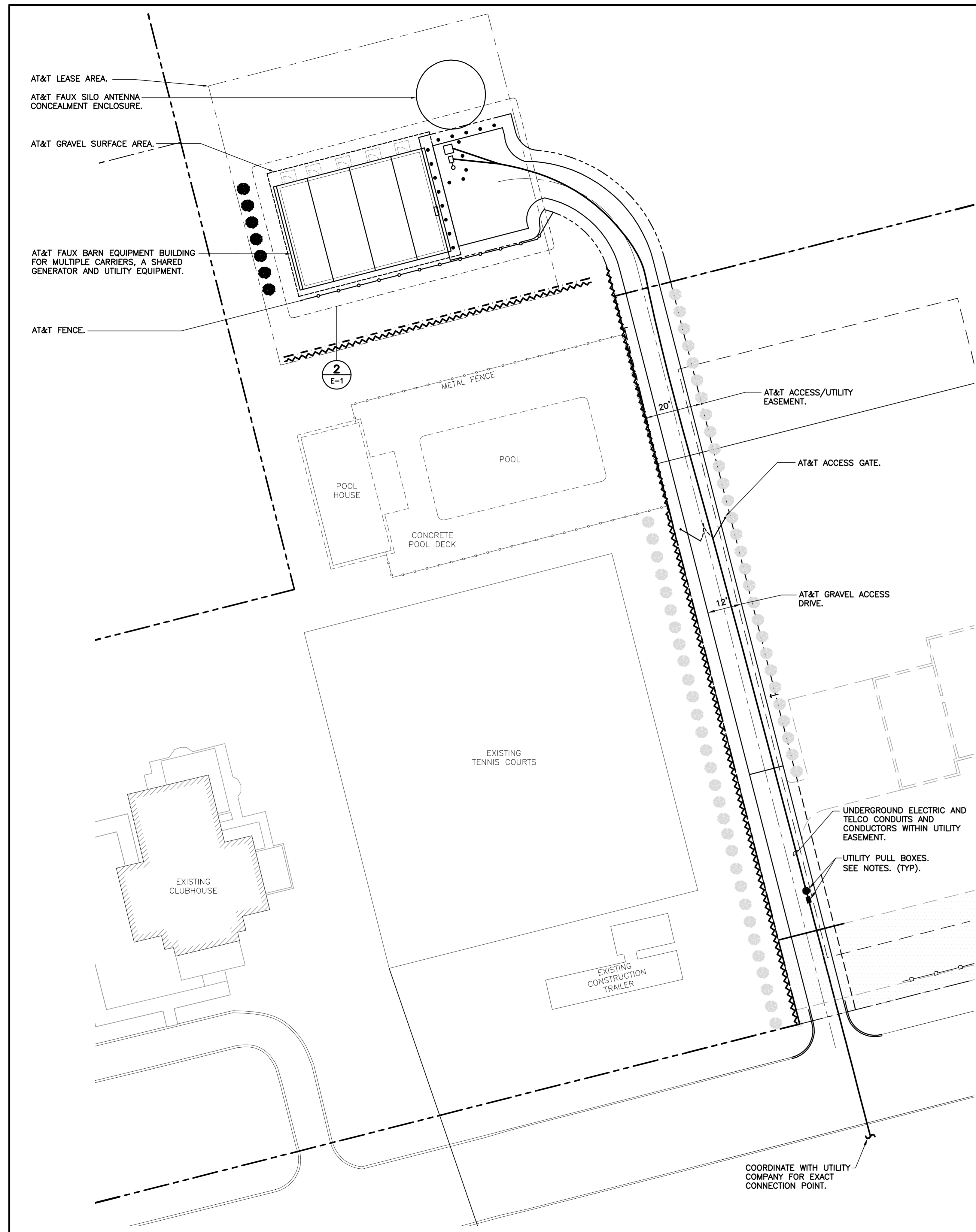
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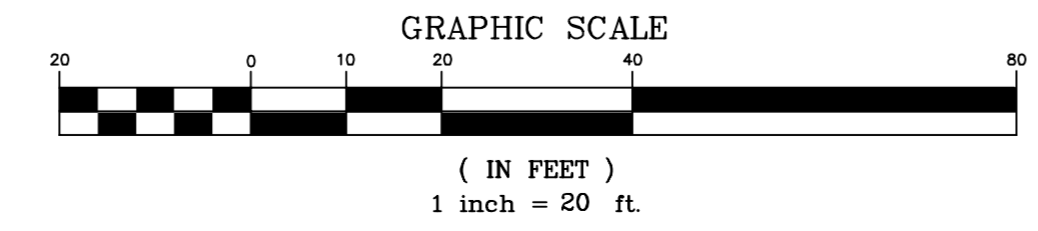
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**MECHANICAL
 GEN. / EQUIP.
 ROOM PLAN**

M-2
 Sheet No. 14 of 25



1 PARTIAL SITE/SURVEY PLAN
E-1 SCALE: 1" = 20'

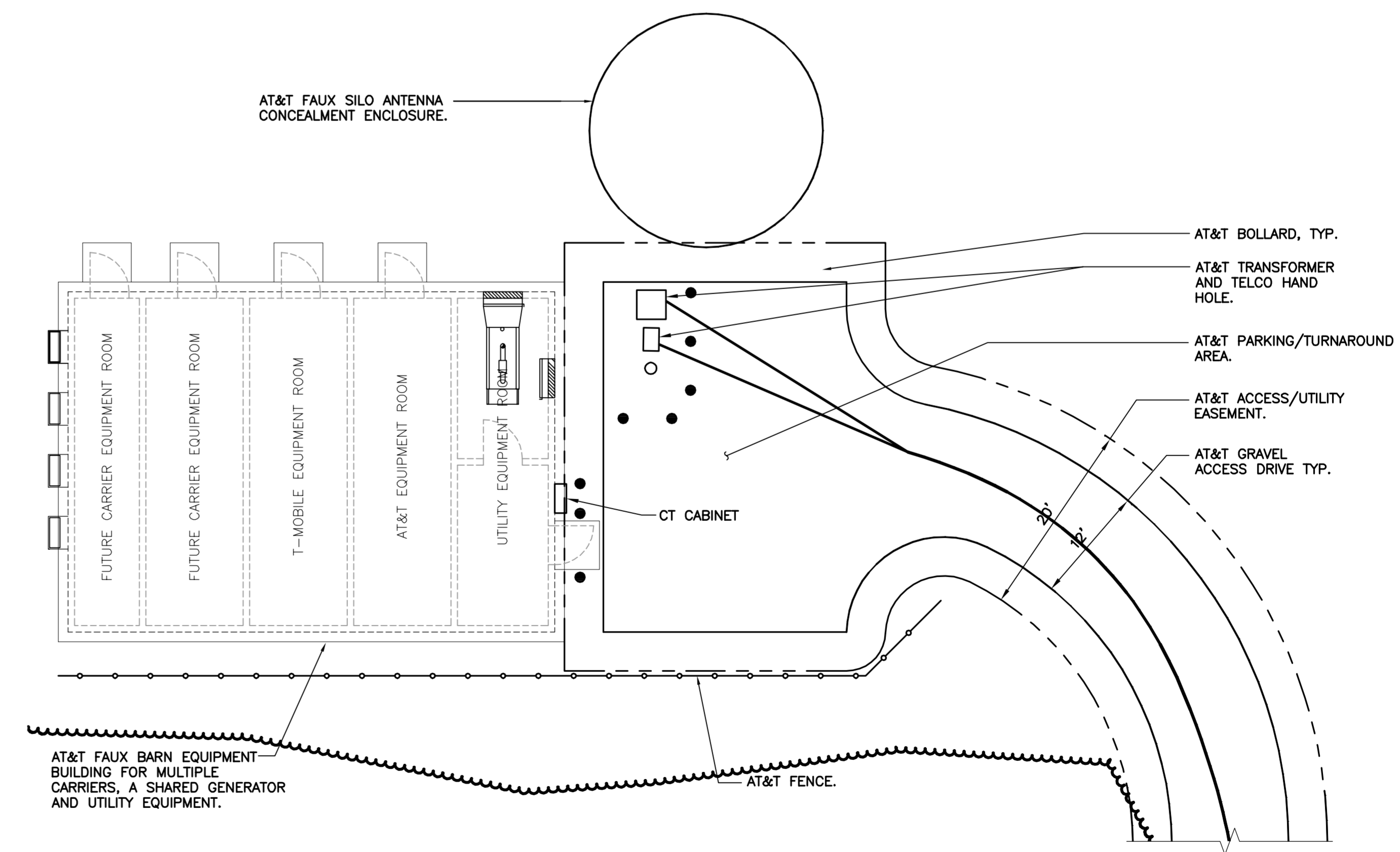


GENERAL NOTES

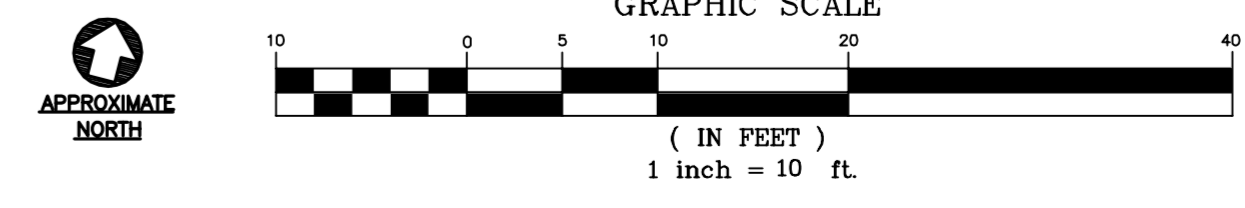
- REFER TO CIVIL DRAWINGS FOR ACTUAL LOCATIONS OF STRUCTURES ON SITE.
- COORDINATION, LAYOUT AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL / TELECOMMUNICATIONS SERVICES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE EXACT BUILDING FOUNDATION SIZE AND BUILDING WALL PENETRATIONS FOR UTILITIES SHALL BE CONFIRMED WITH THE BUILDING SPECIFICATIONS AND PLANS PRIOR TO LAYOUT.
- ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
- PROVIDE CADWELD CONNECTION STYLES: THROUGH (CABLE TO CABLE) TYPE "TA" (CABLE TO SURFACE) TYPE "LA" OR "VS" (PIPE) (CABLE TO ROD) TYPE "GT" OR "NC" (CABLE TO CABLE) TYPE "SS"
- EXTEND UTILITY SERVICES TO OWNER'S EQUIPMENT. CONTRACTOR TO COORDINATE ALL UTILITY SERVICES TO NEW EQUIPMENT.
- UTILITY ROUTING, EQUIPMENT LOCATIONS, PULL BOXES, AND EASEMENT ARE SHOWN APPROXIMATE. COORDINATE WITH EACH UTILITY FOR SPECIFIC REQUIREMENTS. PROVIDE ALL ELEMENTS REQUIRED BY EACH UTILITY COMPANY.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
---	GROUND RING
- T - T -	TELEPHONE CONDUIT
- E - E -	ELECTRICAL CONDUIT
⊞	GROUND BAR
○-○	PERIMETER FENCE
⊗	5/8" DIAMETER x 10'-0" COPPER GROUND ROD OR 24"x24" GROUND PLATE ABOVE MATT FOUNDATION.
⊗	5/8" DIAMETER x 10'-0" COPPER GROUND ROD WITH ACCESS.
■	EXOTHERMIC WELD TYPE "TA"
○ ■	UTILITY PULL BOX



2 COMPOUND PLAN
E-1 SCALE: 1" = 10'



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SITE UTILITY PLAN

E-1

Sheet No. 16 of 25

CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING
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REV. 0

GROUNDING SCHEMATIC NOTES

- ① GROUND RING, #2 AWG BCW
 - ② #2/0 GREEN INSULATED
 - ③ #6 AWG
 - ④ REFER TO RISER DIAGRAM FOR SPECIFICATIONS
 - ⑤ BOND ALL HALO GROUND RING TAILS TO GROUND RING. COORDINATE LOCATION AND QUANTITY WITH EQUIPMENT ROOM DRAWINGS
 - ⑥ FOUR #2/0 GREEN INSULATED
 - ⑦ BOND WITH LISTED MECHANICAL CONNECTION
- 6. REFER TO GROUNDING PLAN FOR LOCATION OF GROUNDING DEVICES.
 - 7. REFER TO ALL ELECTRICAL AND GROUNDING DETAILS.
 - 8. COORDINATE ALL TOWER MOUNTED EQUIPMENT WITH OWNER.
 - 9. ALL TOWER MOUNTED AMPLIFIERS AND ASSOCIATED EQUIPMENT SHALL BE BONDED TO THE SECTOR GROUND BAR PER MANUFACTURER'S SPECIFICATIONS.
 - 10. ALL GROUNDING SHALL BE IN ACCORDANCE WITH NEC AND OWNER'S REQUIREMENTS.
 - 11. ALL EXPOSED METAL OBJECTS IN SHELTER SHALL BE BONDED TO THE HALO GROUND WITHIN THAT ROOM.
 - 12. BOND GENERATOR TO GROUND PER NEC AND MANUFACTURERS SPECIFICATIONS
 - 13. REFER TO RISER DIAGRAM FOR SPECIFICATIONS OF SERVICE GROUND AND TRANSFORMER GROUND.

GENERAL NOTES:

- 1. ALL SURGE SUPPRESSION EQUIPMENT SHALL BE BONDED TO GROUND PER MANUFACTURER'S SPECIFICATIONS
- 2. UNLESS OTHERWISE NOTED OR REQUIRED BY CODE, GROUND CONDUCTORS SHOWN SHALL BE #2 AWG (SOLID TINNED BCW - EXTERIOR; STRANDED GREEN INSULATED - INTERIOR).
- 3. ALL SECTOR GROUND BARS SHALL BE BONDED TOGETHER WITH #2 AWG SOLID TINNED BCW.
- 4. BOND ALL EQUIPMENT CABINETS AND BATTERY CABINETS TO GROUND PER MANUFACTURER'S SPECIFICATIONS.
- 5. ALL BONDS TO TOWER SHALL BE MADE IN STRICT ACCORDANCE WITH SPECIFICATIONS OF TOWER MANUFACTURER OR STRUCTURAL ENGINEER.

CELLULAR GROUNDING NOTES

OBJECTIVE

PROVIDE A CELLULAR GROUNDING SYSTEM WITH MAXIMUM ALTERNATING CURRENT RESISTANCE OF 5 OHMS BETWEEN ANY POINT ON THE GROUNDING SYSTEM AND REFERENCE GROUND. PROVIDE EXTERIOR GROUNDING SCHEME WITH OWNER'S ENGINEER APPROVAL AS REQUIRED TO ACHIEVE DESIRED MAXIMUM AC RESISTANCE TO GROUND.

TESTING

CONTRACTOR TO PROVIDE AN INDEPENDENT TESTING CONTRACTOR TO DETERMINE THE GROUNDING SYSTEM RESISTANCE BY USE OF THE THREE POINT TEST AND AN AEMC MODEL 4500, OR APPROVED EQUAL. TEST TO BE PERFORMED PRIOR TO CONNECTION OF POWER SUPPLY TO THE CELL SITE AND CONNECTION OF THE GROUNDING SYSTEM TO THE WATER MAIN OR AC SUPPLY AS APPLICABLE. IF 5 OHM LIMIT IS EXCEEDED, CONTACT ENGINEER FOR ADDITIONAL INSTRUCTIONS TO ACHIEVE 5 OHMS OR LESS.

CONDUCTOR USED FOR CELLULAR GROUNDING SYSTEM

EGR - #2 AWG ANNEALED SOLID TINNED BARE COPPER
 IGR - #2 AWG ANNEALED STRANDED (7 STRAND) 'THW' GREEN COLORED INSULATION
 INTER-BUS EXTENSION (FROM IGR TO EGR) - SEE DETAILS
 EXTERNAL BOND CONNECTIONS TO EGR - #2 ANNEALED SOLID TINNED BARE COPPER
 INTERIOR BOND CONNECTIONS TO IGR - #6 ANNEALED STRANDED (7 STRAND) 'THW' GREEN COLORED INSULATION

MINIMUM BENDING RADIUS

IGR #2 : 1'-0" NOMINAL AND 8" MINIMUM
 EGR #2 : 2'-0" NOMINAL AND 8" MINIMUM
 CELLULAR GROUNDING CONDUCTOR SHALL BE AS STRAIGHT AS POSSIBLE WITH MINIMUM 6" BENDING RADIUS.

FASTENER FOR CELLULAR GROUNDING CONDUCTOR

USE NON-METALLIC FASTENER AND STANDOFF 'CLIC' (AVAIL. FROM NEFCO 800-969-0285) TO SURFACE SUPPORT CONDUCTOR 3" AWAY FROM SURFACES.

SPACING OF FASTENERS: 2'-0" O.C. OUTSIDE BUILDING
 3'-0" O.C. INSIDE BUILDING

GROUNDING ELECTRODE

GROUNDING ELECTRODE SHALL BE 5/8" DIA. x 10'-0" L. COPPER CLAD STEEL ROD. ADJUST LOCATION OF GROUNDING ELECTRODE IF SOIL CONDITION IS NOT CONDUCTIVE (GRAVEL, SANDY SOIL, ROCKS). SPACE GROUNDING ELECTRODES 20'-0" APART (SPACING MAY BE REDUCED WHERE REQUIRED TO ACCOMMODATE FIELD CONDITIONS BUT SHALL NOT BE LESS THAN 10'-0"). ELECTRODES SHALL BE DRIVEN ONLY WITH PROPER DRIVER SLEEVE TO PREVENT MUSHROOMING TOP OF ROD. WHEN ROCK BOTTOM IS ENCOUNTERED, THE ELECTRODE SHALL BE DRIVEN AT AN OBLIQUE ANGLE NOT TO EXCEED 45° FROM THE VERTICAL AWAY FROM STRUCTURES. TOP OF GROUNDING ELECTRODE SHALL BE MIN. 3'-6" BELOW FINISH GRADE.

CONNECTIONS ABOVE GRADE (MECHANICAL)

COMPRESSION LUG CONNECTOR - 15 TON COMPRESSION, 2 HOLE, LONG BARREL, ELECTRO TINNED PLATED, HIGH CONDUCTIVITY, COPPER 600V RATED. USE 1/4" Ø BOLT, 3/4" SPACING LUGS TO BOND OBJECTS FROM THE IGR. (CONNECTOR SHALL BE BURNDY HYLUG SERIES OR EQUAL.)

EXOTHERMIC WELD LUG CONNECTOR - 2 HOLE, OFFSET, ELECTRO TINNED PLATED, HIGH CONDUCTIVITY, COPPER 600V. USE 1/2" Ø BOLT, 1-3/4" SPACING LUGS. CONNECTOR SHALL BE CADWELD CONNECTION STYLE (CABLE TO SURFACE) TYPE LA. LUG SIZE 1/8 x 1. EXOTHERMIC WELD TO LUG AS REQUIRED.

C-TAP COMPRESSION CONNECTOR - HIGH CONDUCTIVITY COPPER FOR MAIN TO BRANCH LINE TAPPING. (CONNECTOR SHALL BE BURNDY HYTAP SERIES OR EQUAL.)

MECHANICAL CONNECTIONS

USE MATCHING MANUFACTURER TOOL AND DIE FOR COMPRESSION CONNECTION.

APPLY ANTI-OXIDANT CONDUCTIVITY ENHANCER COMPOUND ON SURFACES THAT ARE COMPRESSED.

SURFACES INTENDED TO BE CONNECTED WITH MECHANICAL CONNECTORS SHALL BE BARE METAL TO BARE METAL. PRIME AND PAINT OVER BONDED AREA TO PREVENT CORROSION.

WHEN BONDING #2 TO #2

EXTERIOR OF BUILDING - USE EXOTHERMIC WELD CONNECTION
 INTERIOR OF BUILDING - USE COMPRESSION CONNECTION ON STRANDED CONDUCTORS ONLY.
 - USE EXOTHERMIC WELD CONNECTION ON SOLID CONDUCTOR.

WHEN BONDING #2 TO FENCE POST

USE EXOTHERMIC WELD (CADWELD TYPE 'VS') CONNECTION TO FENCE POST STEEL SURFACE. TEST WELD FOR POSSIBLE BURN THRU. PATCH WELDED AREA WITH GALVANIZED COATING AS REQUIRED FOR PROPER WELDED PERMANENT BOND. REFER TO MANUFACTURER'S REQUIREMENTS FOR DETAILS

GROUNDING SYSTEM INTERCONNECTION

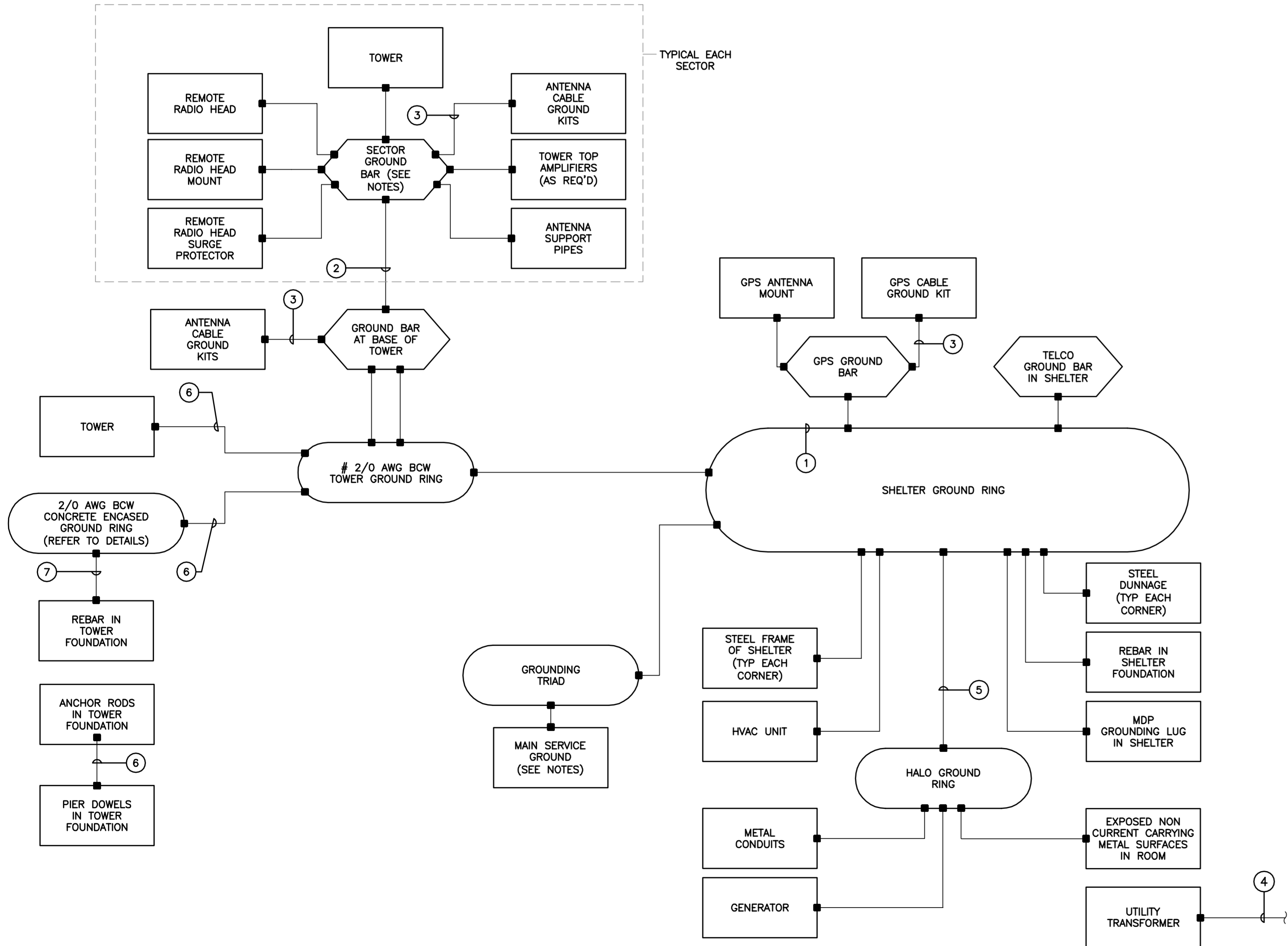
BOND THE EGR DOWN CONDUCTORS, AND/OR BURIED GROUND RING TO ANY METALLIC OBJECT OR EXISTING GROUNDING SYSTEM WITHIN 6'.

WHEN BONDING #2 TO TOWER GROUND PLATE

TOWER GROUND PLATE SHALL BE 6" x 8" x 1/4" COPPER AND BE MADE AVAILABLE TO TOWER CONTRACTOR TO BE INSTALLED DURING TOWER CONSTRUCTION. USE EXOTHERMIC WELD (CADWELD TYPE 'HS') TO TOWER GROUND PLATE TEST WELD FOR POSSIBLE BURN THRU. COORDINATE THE SIZE OF THE MOUNTING HOLE WITH TOWER CONTRACTOR.

METALLIC CONDUITS

BOND ALL STEEL CONDUITS TO PANELS AT POINT OF CONTACT WITH APPROVED GROUNDING BUSHING.



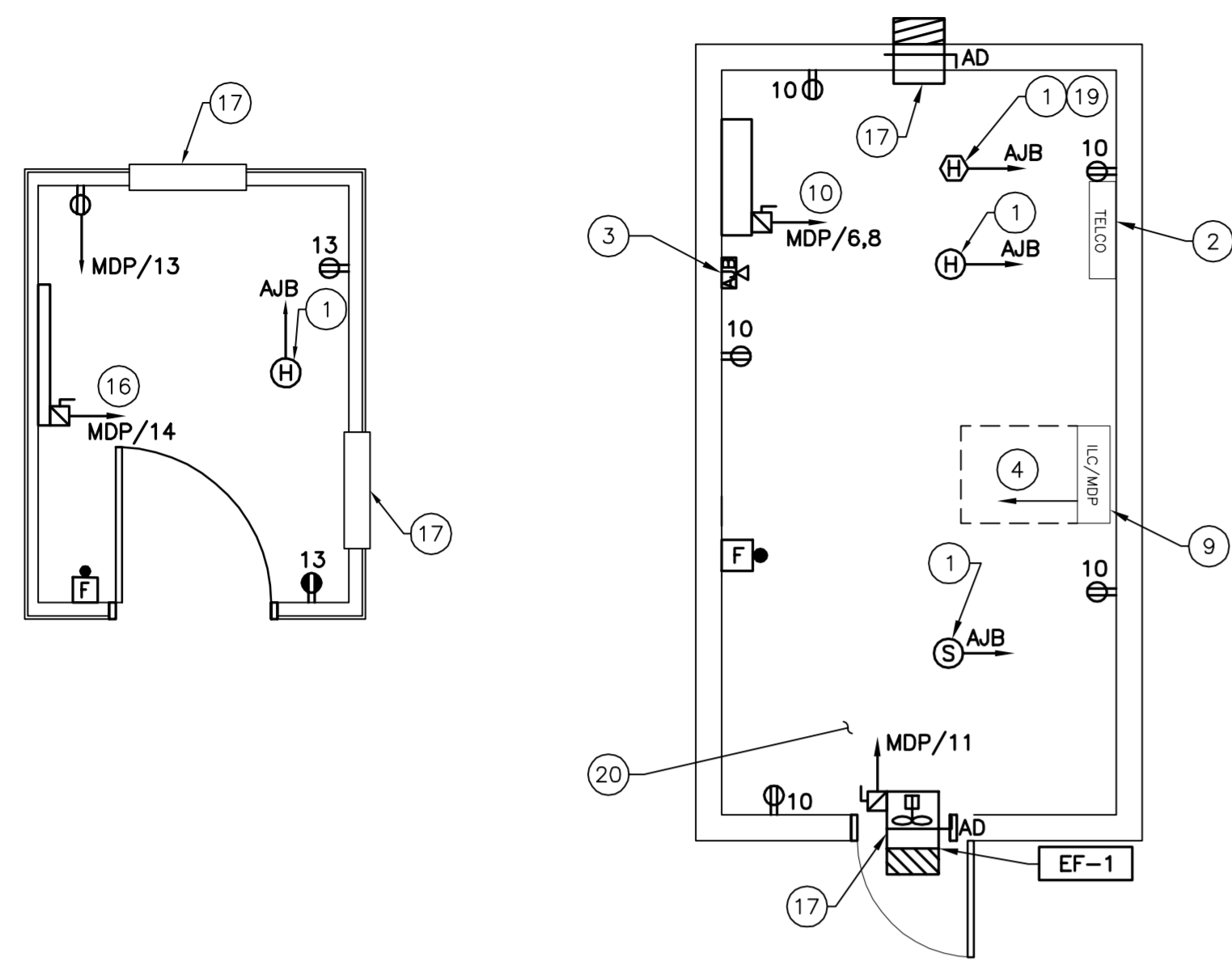
PROFESSIONAL ENGINEER SEAL	CONSTRUCTION DRAWINGS - REVISED PER CLIENT COMMENTS
	CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING
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DATE: 03/07/17
 SCALE: AS NOTED
 JOB NO. 16024.00

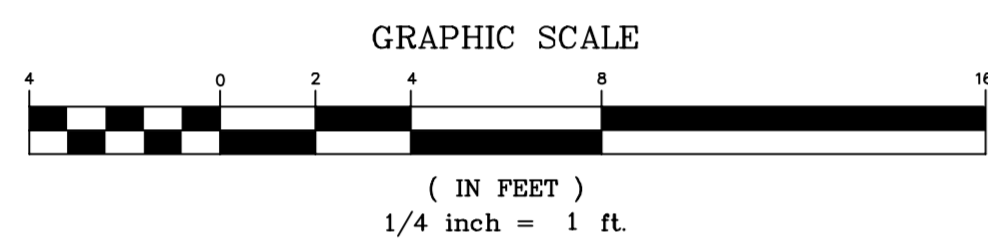
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 WIRELESS COMMUNICATIONS FACILITY
CT1345 EAST LYME RELO.
THE ORCHARDS
 2 ARBOR CROSSING
 EAST LYME, CT 06333

SCHMATIC RISER DIAGRAM AND NOTES

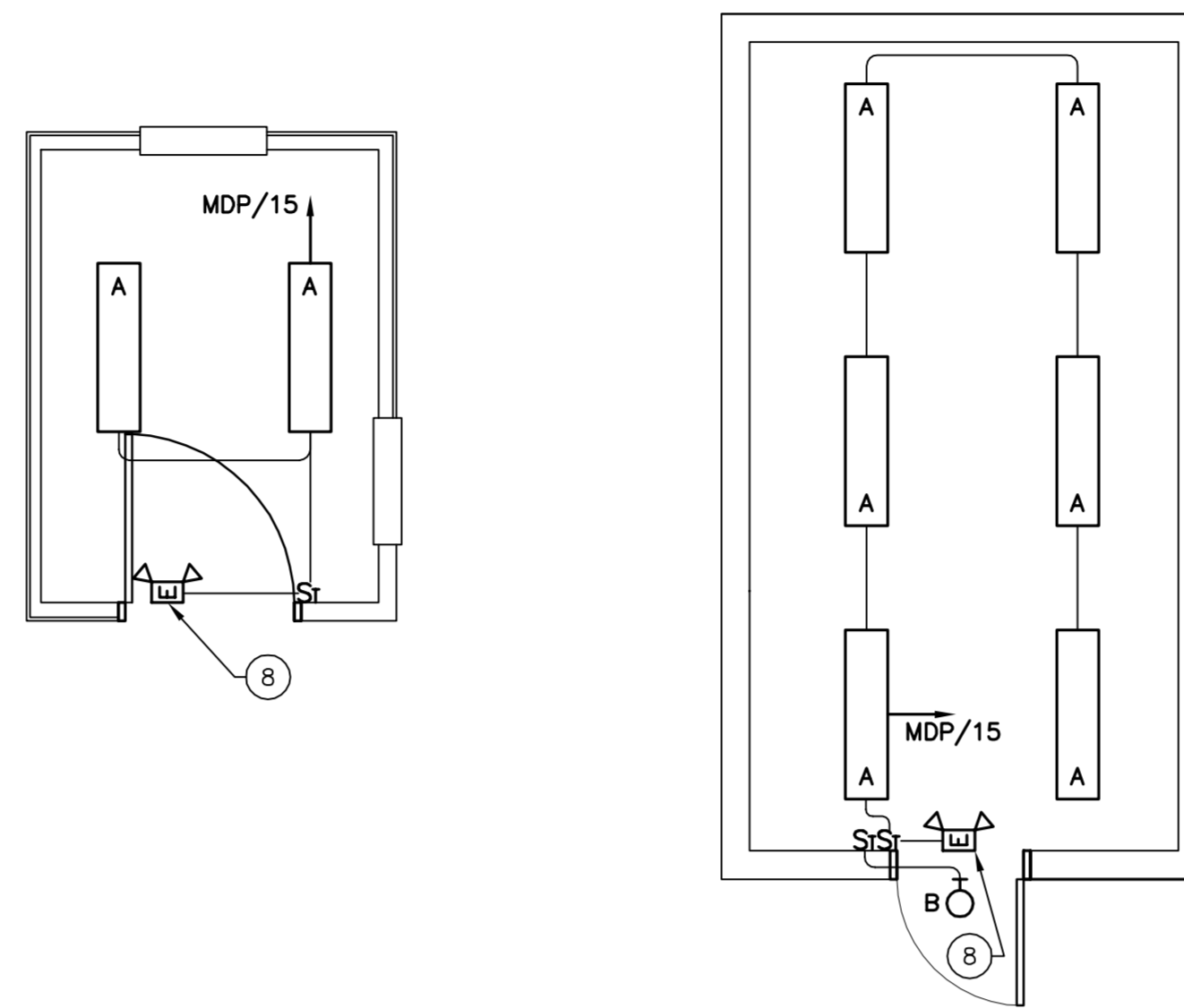
E-3
 Sheet No. 18 of 25



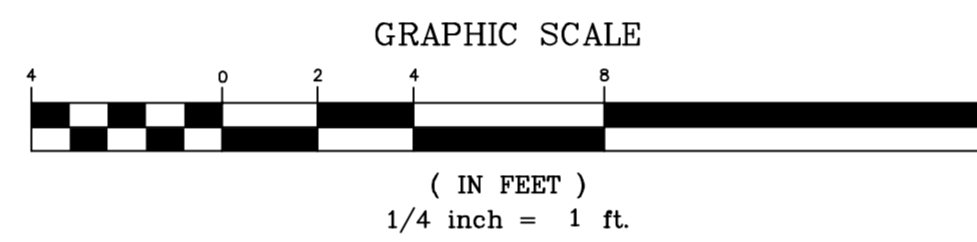
NOTE:
ROOM LAYOUT AND EQUIPMENT ARRANGEMENT ARE SHOWN TYPICAL. REFER TO CIVIL DRAWINGS FOR EXACT ROOM LAYOUT. ADJUST EQUIPMENT LOCATIONS AS REQUIRED FOR BEST FIT, CODE COMPLIANCE, AND TO AVOID OBSTRUCTIONS. FINAL EQUIPMENT LAYOUT MUST BE VERIFIED AND APPROVED BY WIRELESS CARRIER'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



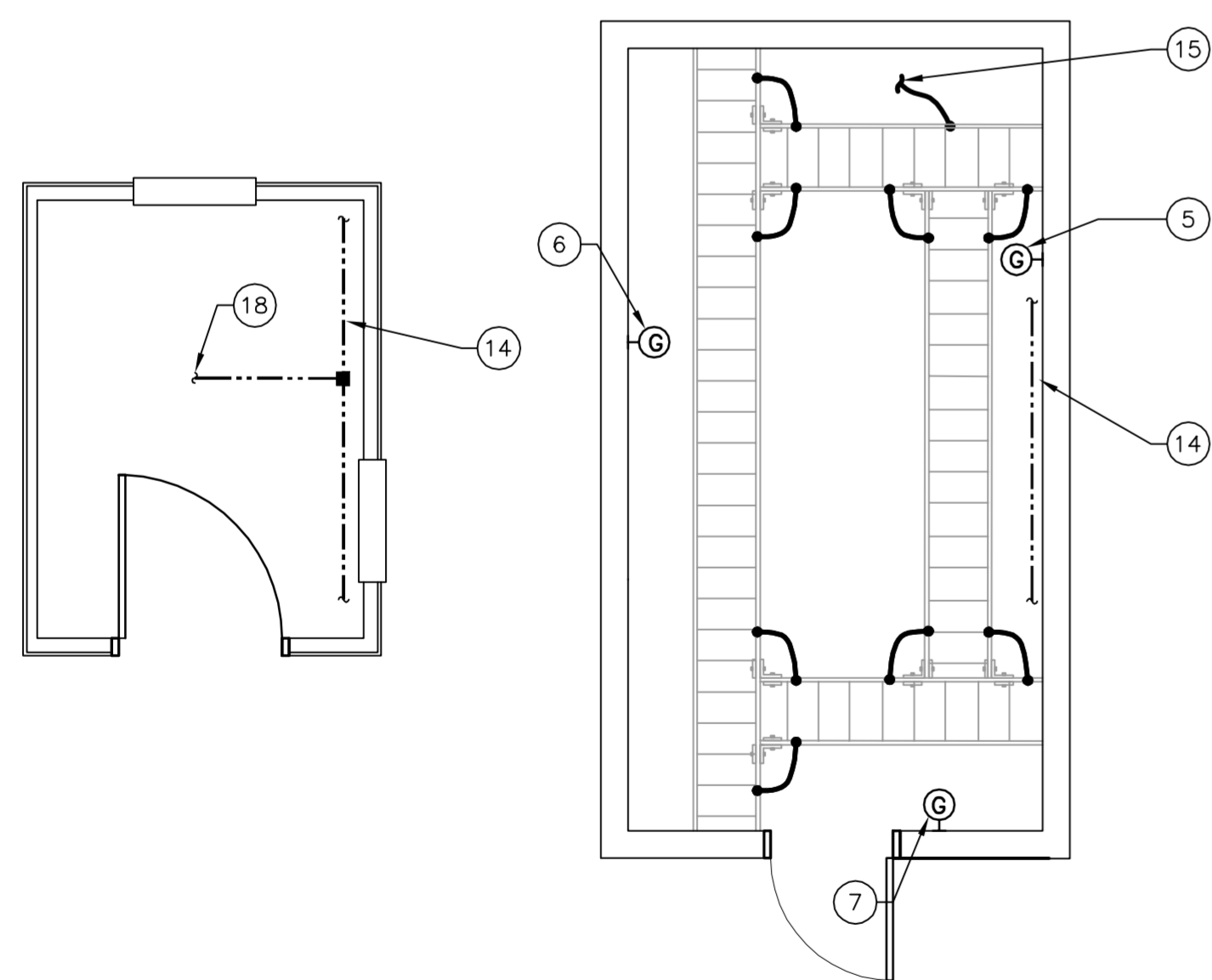
1 POWER PLAN
E-5 SCALE: 1/4" = 1'-0"



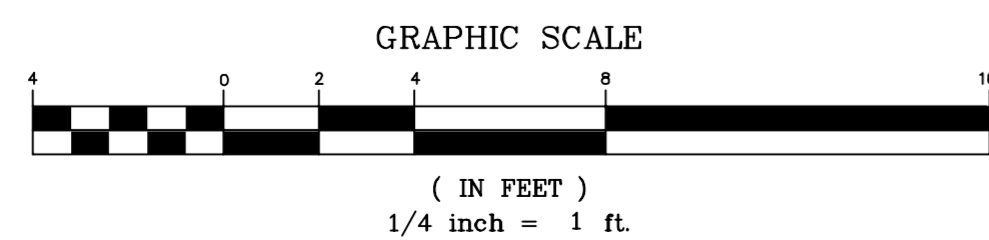
NOTE:
ROOM LAYOUT AND EQUIPMENT ARRANGEMENT ARE SHOWN TYPICAL. REFER TO CIVIL DRAWINGS FOR EXACT ROOM LAYOUT. ADJUST EQUIPMENT LOCATIONS AS REQUIRED FOR BEST FIT, CODE COMPLIANCE, AND TO AVOID OBSTRUCTIONS. FINAL EQUIPMENT LAYOUT MUST BE VERIFIED AND APPROVED BY WIRELESS CARRIER'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



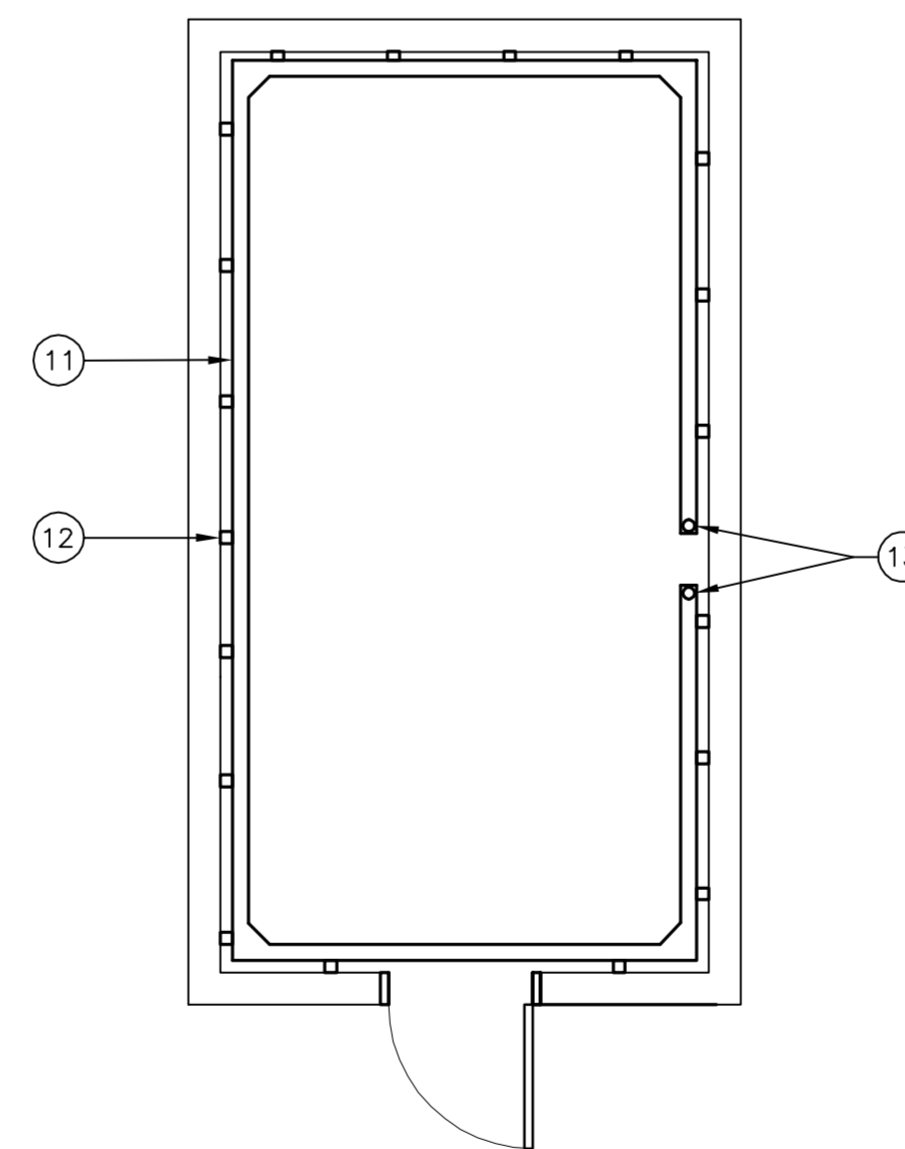
2 LIGHTING PLAN
E-5 SCALE: 1/4" = 1'-0"



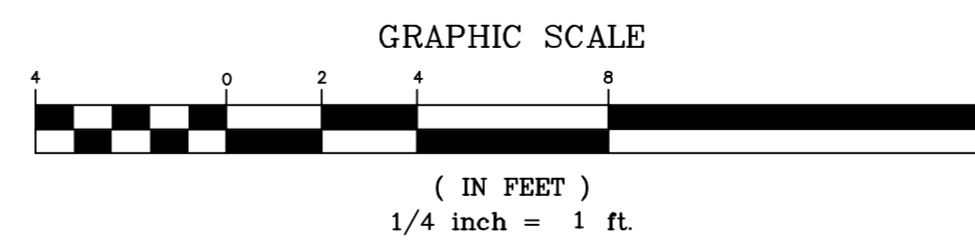
NOTE:
ROOM LAYOUT AND EQUIPMENT ARRANGEMENT ARE SHOWN TYPICAL. REFER TO CIVIL DRAWINGS FOR EXACT ROOM LAYOUT. ADJUST EQUIPMENT LOCATIONS AS REQUIRED FOR BEST FIT, CODE COMPLIANCE, AND TO AVOID OBSTRUCTIONS. FINAL EQUIPMENT LAYOUT MUST BE VERIFIED AND APPROVED BY WIRELESS CARRIER'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



3 CABLE TRAY GROUNDING PLAN
E-5 SCALE: 1/4" = 1'-0"



NOTE:
ROOM LAYOUT AND EQUIPMENT ARRANGEMENT ARE SHOWN TYPICAL. REFER TO CIVIL DRAWINGS FOR EXACT ROOM LAYOUT. ADJUST EQUIPMENT LOCATIONS AS REQUIRED FOR BEST FIT, CODE COMPLIANCE, AND TO AVOID OBSTRUCTIONS. FINAL EQUIPMENT LAYOUT MUST BE VERIFIED AND APPROVED BY WIRELESS CARRIER'S CONSTRUCTION MANAGER PRIOR TO INSTALLATION.



4 WIREWAY LAYOUT PLAN
E-5 SCALE: 1/4" = 1'-0"

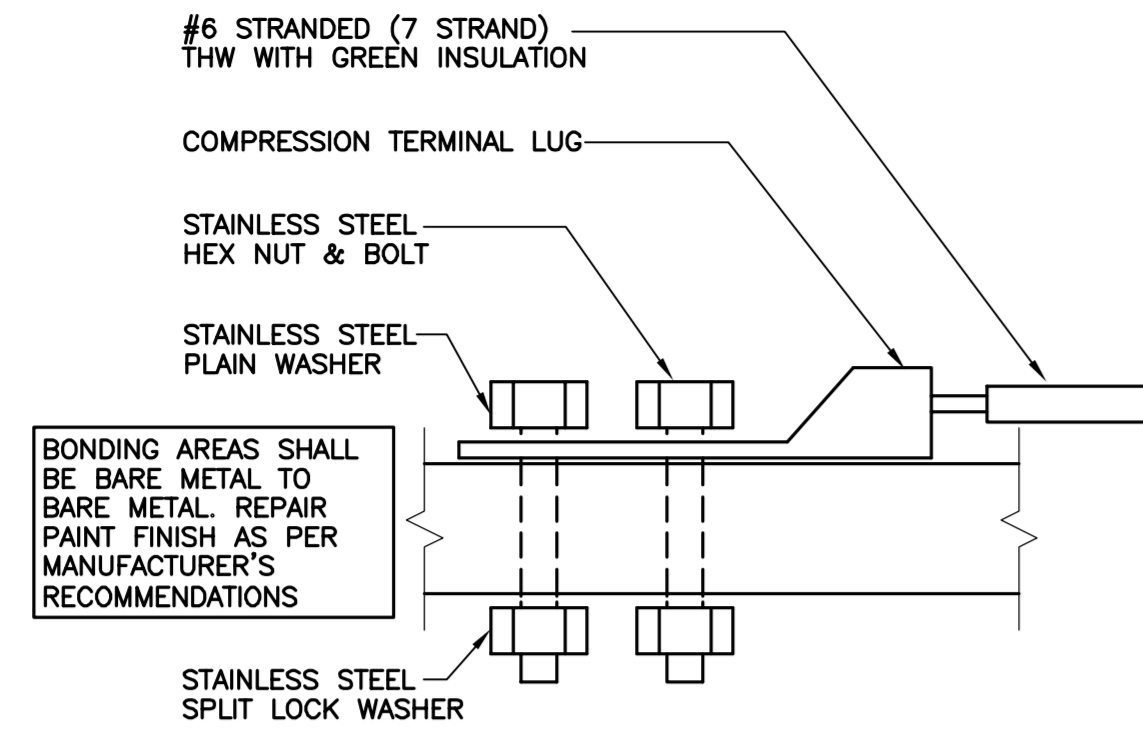
ELECTRICAL WORK NOTES

- 1 ALL SMOKE, HEAT AND HYDROGEN DETECTORS SHALL BE OPERATE AT 48 VDC AND BE POWERED FROM THE 48 VDC POWER PLANT WITHIN THE EQUIPMENT ROOM. DO NOT MOUNT ABOVE CABLE TRAY.
- 2 TELEPHONE BACKBOARD AREA.
- 3 ALARM JUNCTION BOX.
- 4 PROVIDE CONDUCTORS FROM PANELBOARD MDP ROUTED THROUGH THE PERIMETER WIREWAY FOR RECTIFIER BRANCH CIRCUITS. PROVIDE 20' OF ADDITIONAL WIRING IN 1" FLEXIBLE METAL CONDUIT FOR FINAL TERMINATION BY OWNER.
- 5 TELCO GROUND BAR. (COORDINATE LOCATION WITH WIRELESS CARRIER'S CONSTRUCTION MANAGER.)
- 6 MAIN GROUND BAR. (COORDINATE LOCATION WITH WIRELESS CARRIER'S CONSTRUCTION MANAGER.)
- 7 GROUND BAR AT CABLE PORT. (COORDINATE LOCATION WITH WIRELESS CARRIER'S CONSTRUCTION MANAGER.)
- 8 CONNECT EMERGENCY LIGHT BRANCH CIRCUIT WIRING TO LINE SIDE OF LIGHTING CIRCUIT.
- 9 INTEGRATED LOAD CENTER "MDP". REFER TO PANEL SCHEDULE.
- 10 VERIFY ELECTRICAL REQUIREMENTS FOR INDOOR AND OUTDOOR UNITS WITH MANUFACTURER AND MECHANICAL DRAWINGS.
- 11 4" x 4", TYPE 1 CONTINUOUS SCREW COVER WIREWAY MOUNTED ALONG PERIMETER OF ROOM AGAINST CEILING.
- 12 SUPPORT BRACKET/SPACER (TYPICAL) (INSTALL AS REQUIRED).
- 13 (2) 3" CONDUITS CONNECTED TO PANELBOARD, MDP FROM WIREWAYS.
- 14 INSTALL HALO GROUND NEAR CEILING ALONG PERIMETER OF ROOM. INSTALL PER WIRELESS CARRIER'S SPECIFICATIONS AND THE DETAILS ON THESE PLANS.
- 15 BOND TO MAIN GROUND BAR.
- 16 PROVIDE CIRCUIT FOR ELECTRIC HEATER IN GENERATOR ROOM AS REQUIRED. COORDINATE WITH MECHANICAL PLANS FOR REQUIREMENTS.
- 17 PROVIDE POWER AND WIRING FOR LOUVER ACTUATORS AS REQUIRED BY MANUFACTURERS SPECIFICATIONS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL PLANS.
- 18 BOND TO GENERATOR PER NEC AND MANUFACTURER REQUIREMENTS.
- 19 HYDROGEN DETECTOR TO INTERFACE WITH EXHAUST FAN CONTROLS. REFER TO MECHANICAL PLANS.
- 20 PRIOR TO START OF CONSTRUCTION ALL EXISTING ELECTRICAL EQUIPMENT DEVICES, CONDUIT, RACEWAY, LIGHTING CONTROLS, FIRE ALARM, J-BOXES, ETC. SHALL BE REMOVED AND RELOCATED OUTSIDE OF THE EQUIPMENT ROOM AREA. NEW LOCATIONS SHALL BE COORDINATED WITH BUILDING OWNER. ANY DEVICE REMOVED BUT NOT RELOCATED SHALL BE RETURNED TO BUILDING OWNER.

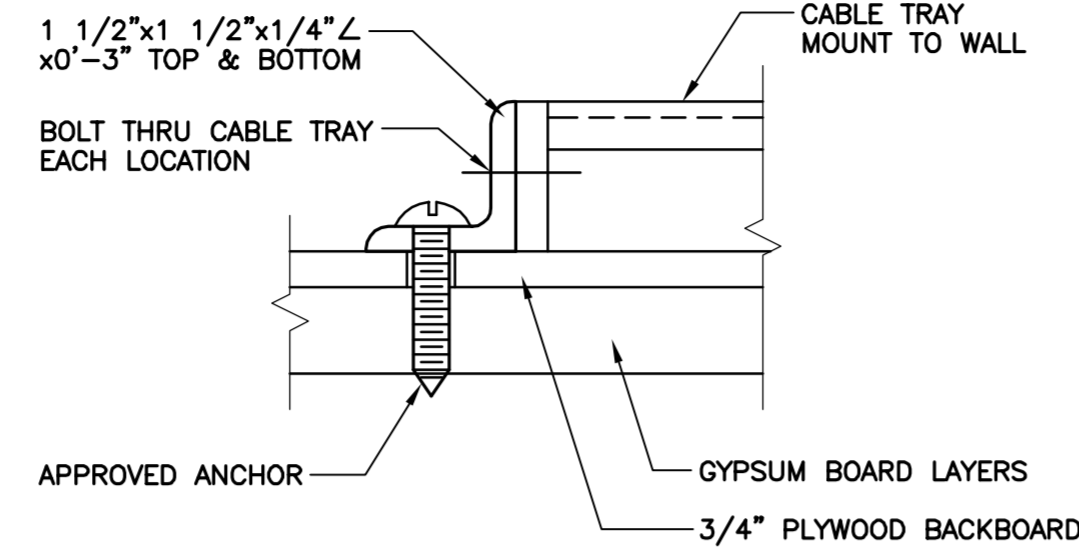
GENERAL NOTES:

1. COORDINATE ALL CONDUITS AND CEILING MOUNTED DEVICES WITH STRUCTURAL OBSTRUCTIONS.
2. FIXTURE 'A' SHALL BE 9" WIDE, SURFACE MOUNTED LED LIGHT FIXTURE WITH ACRYLIC PRISMATIC DIFFUSER, 4000K COLOR, UNIVERSAL VOLTAGE. DAY-BRITE #OWL-470L-840-UNIV.
3. FIXTURE 'B' SHALL BE EXTERIOR CUTOFF LED LUMINAIRE, DIE-CAST ALUMINUM HOUSING, BRONZE FINISH, IMPACT RESISTANT TEMPERED GLASS LENS, BUILT-IN PHOTO CONTROL. LUMARK LDWPPC4A120EDPE.
4. FIXTURE 'E' SHALL BE EMERGENCY LIGHT UNIT WITH 90 MINUTE NICKEL CADMIUM BATTERY & SELF-DIAGNOSTIC TESTING FEATURE. SURE-LITES #CC3-NC-WH-SD

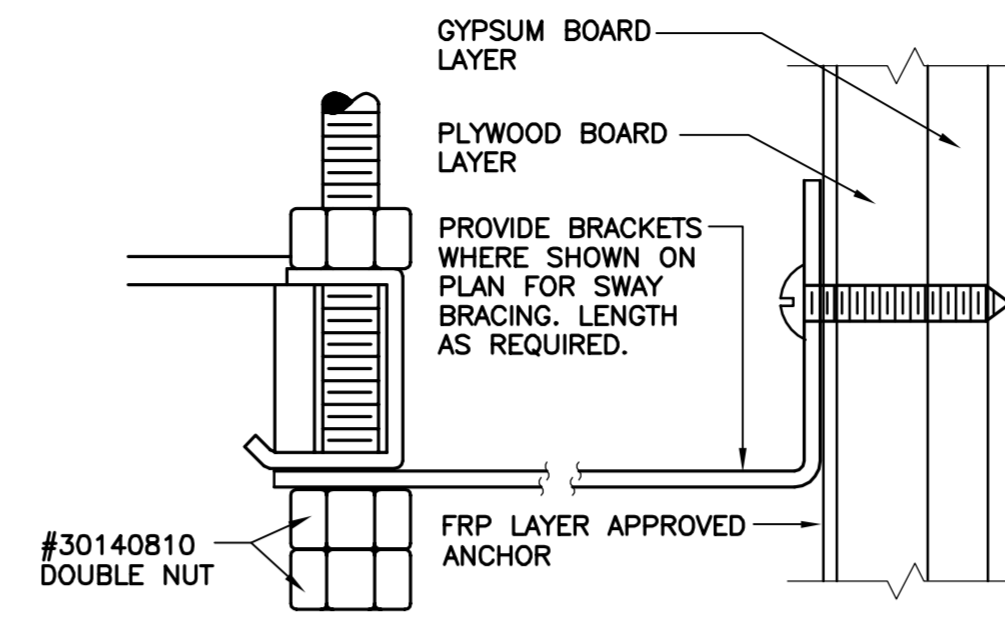
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CENTEX engineering <small>Centered on Solutions™</small>							
(203) 489-0360 (203) 489-8387 Fax 63-2 North Branford Road Branford, CT 06405 www.CentelEng.com							
AT&T MOBILITY WIRELESS COMMUNICATIONS FACILITY CT1345 EAST LYME RELO. THE ORCHARDS 2 ARBOR CROSSING EAST LYME, CT 06333							
DATE:		03/07/17					
SCALE:		AS NOTED					
JOB NO.		16024.00					
ELECTRICAL FLOOR PLAN AND NOTES							
E-5							
Sheet No. 20 of 25							



1 LUG CONNECTION ON CABLE TRAY
E-6 N.T.S.



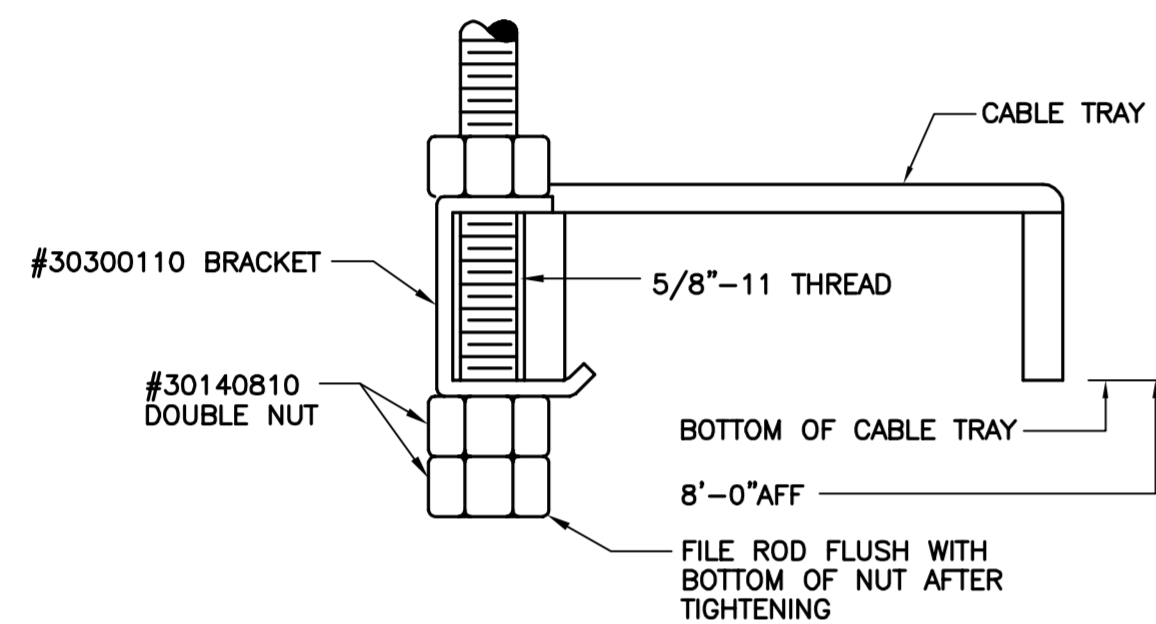
2 WALL TRAY CONNECTION
E-6 N.T.S.



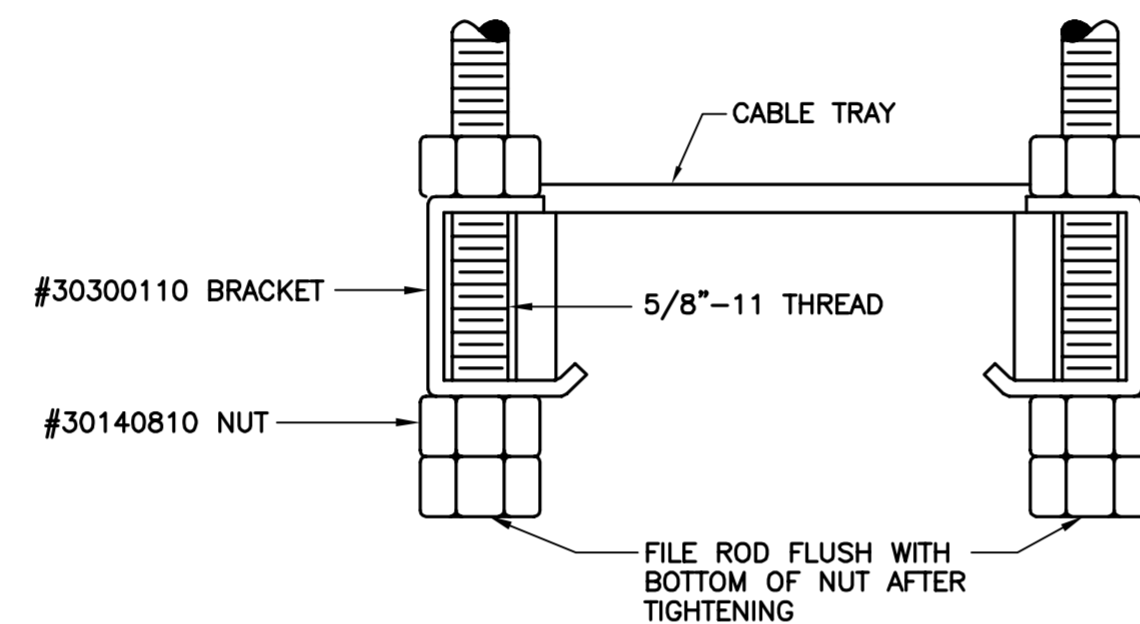
3 CABLE TRAY TO WALL SWAY BRACE
E-6 N.T.S.

DRAWING NOTES

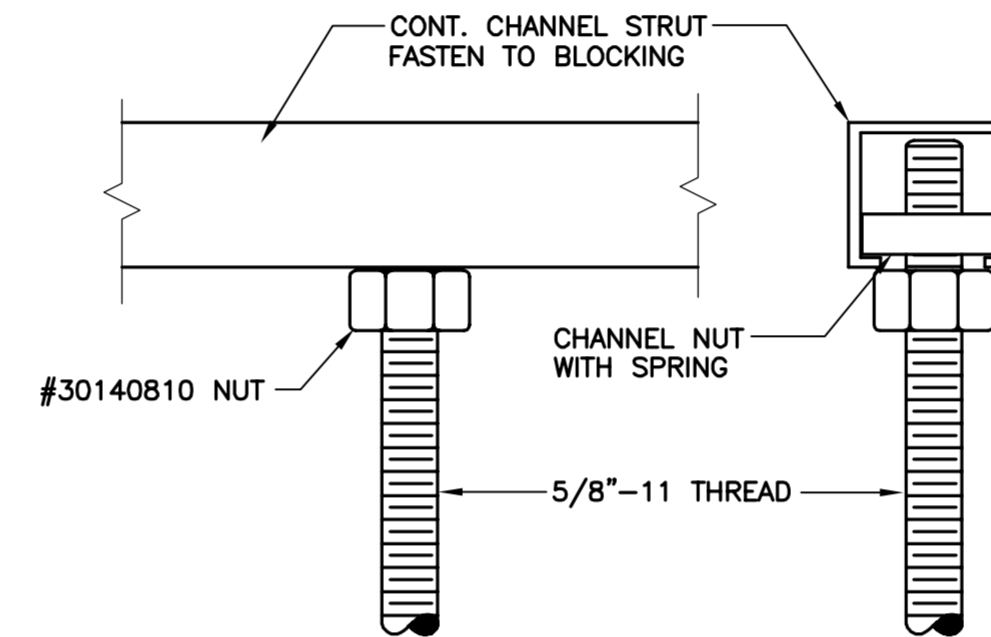
- CABLE TRAY SHALL BE SOLID SIDE BAR, GOLD ANODIZED FINISH, AS MANUFACTURED BY NEWTON INSTRUMENT COMPANY, INC. (PHONE: 919-575-6426). WIDTH SHALL BE 12" FOR CELL SITES AND 18" FOR HUB SITES UNLESS OTHERWISE NOTED. COORDINATE WITH CONSTRUCTION MANAGER FOR APPROPRIATE WIDTH PRIOR TO ACQUISITION AND INSTALLATION. REFER TO DETAILS.
- REFER TO DETAILS FOR APPLICABLE CABLE TRAY INSTALLATION REQUIREMENTS.
- CABLE TRAY SHALL BE SUPPORTED BY "UNISTRUT," ATTACHED TO SUPPORTING CHANNEL VIA THREADED ROD. PROVIDE ALL SUPPORTS, UNISTRUT, HANGERS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
- THREADED ROD SUPPORTS FOR THE CABLE TRAY SHALL BE SPACED NO MORE THAN 48" O.C. ON EACH SIDE. INSTALL BLOCKING BETWEEN JOISTS AS REQUIRED TO SUPPORT STRUT HANGER BRACKETS.
- CABLE TRAY SHALL BE 6" AWAY FROM FINISHED WALLS.
- BOTTOM OF CABLE TRAY SHALL BE 8'-0" A.F.F.
- ADJACENT CABLE TRAYS SHALL BE GROUNDED TOGETHER. REFER TO ELECTRICAL PLAN(S) FOR INTERIOR GROUNDING RING BOND TO CABLE TRAY.
- ALL GROUND CONNECTIONS, CABLE TRAYS SHALL BE COATED WITH AN ANTI-OXIDANT LUBRICANT AFTER BURNISHING AND BEFORE TERMINAL CONNECTIONS ARE MADE.
- CONTRACTOR SHALL FILE SMOOTH EDGES OF CABLE TRAY THAT HAVE BEEN CUT TO LENGTH IN THE FIELD. PAINT MODIFIED CABLE TRAY AS PER MANUFACTURER'S RECOMMENDATIONS.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
- PROVIDE NEWTON RECOMMENDED BONDING CLIPS AT ALL JUNCTIONS.



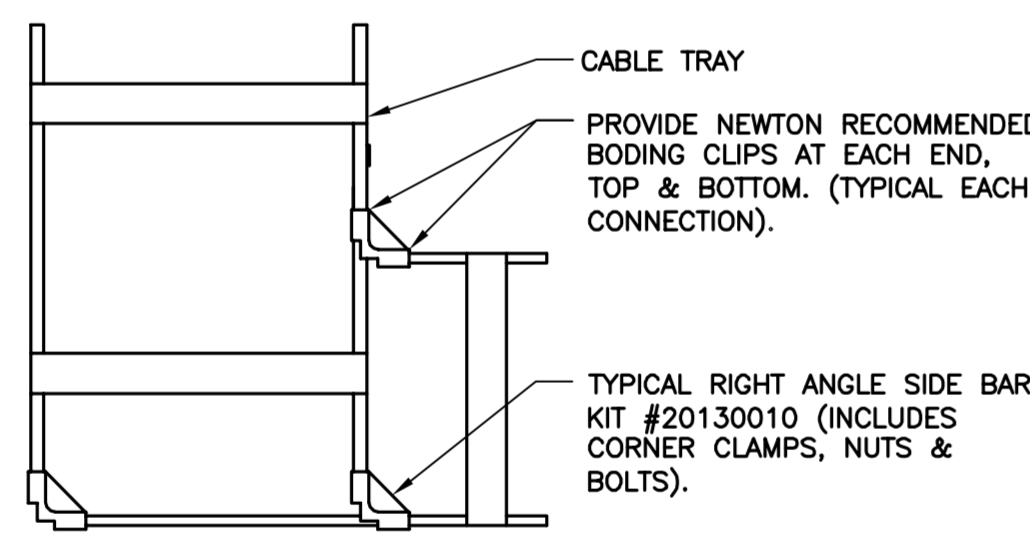
4 SLOTTED TYPE CABLE TRAY HANGER BRACKET (ONE SIDE)
E-6 N.T.S.



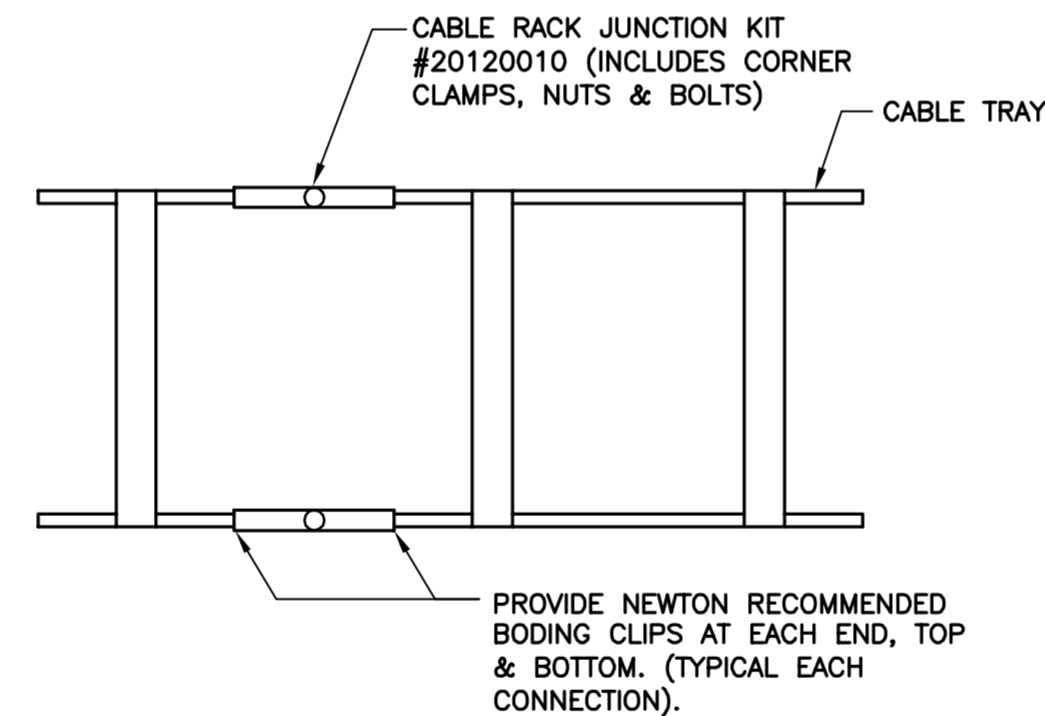
5 SLOTTED TYPE CABLE TRAY HANGER BRACKET (BOTH SIDES)
E-6 N.T.S.



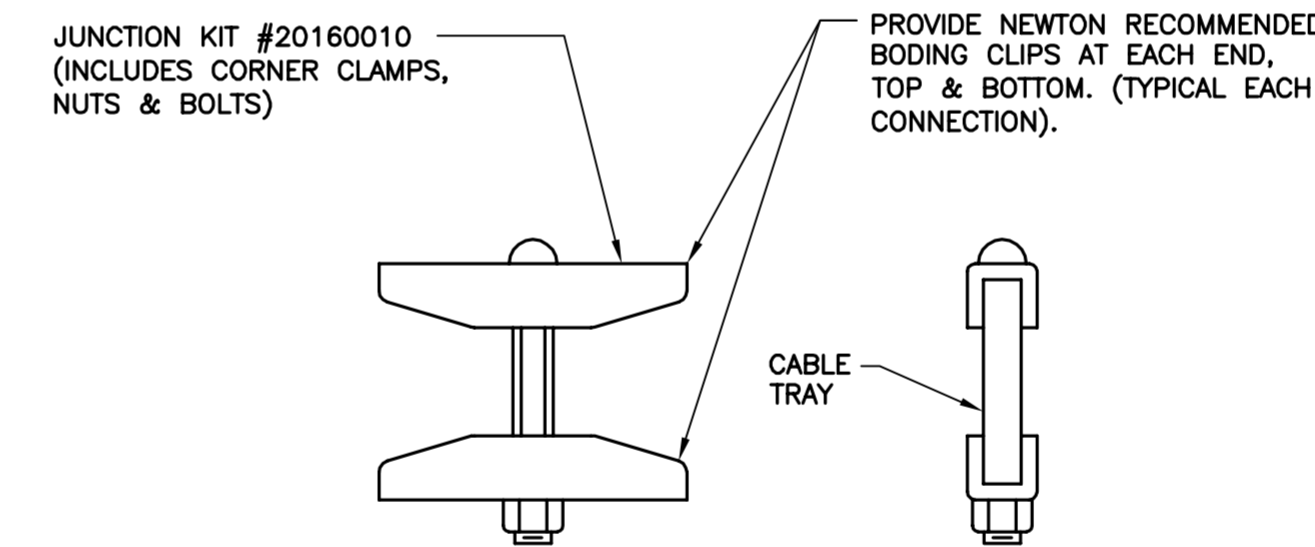
6 STRUT HANGER BRACKET
E-6 N.T.S.



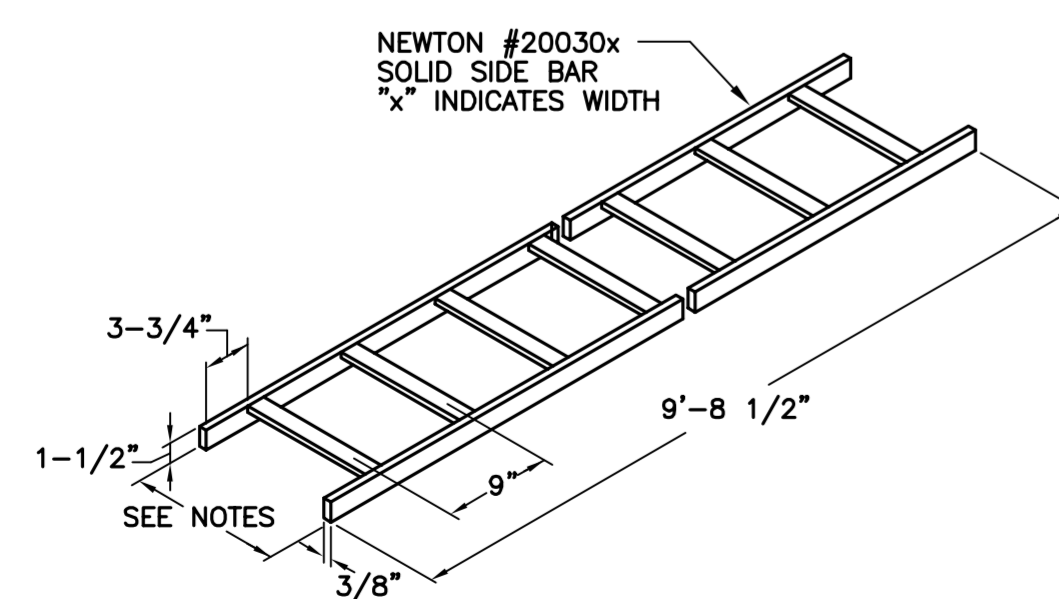
7 MAKING 90° TURN AND JUNCTIONING CABLE TRAY
E-6 N.T.S.



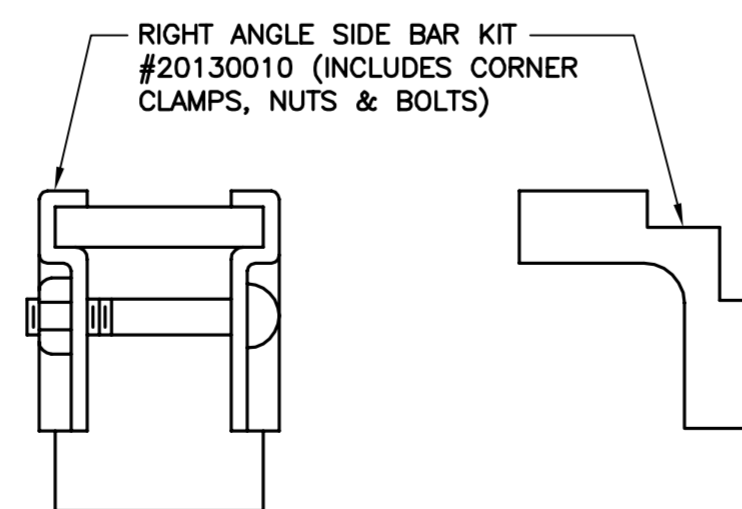
8 CABLE TRAY JUNCTION
E-6 N.T.S.



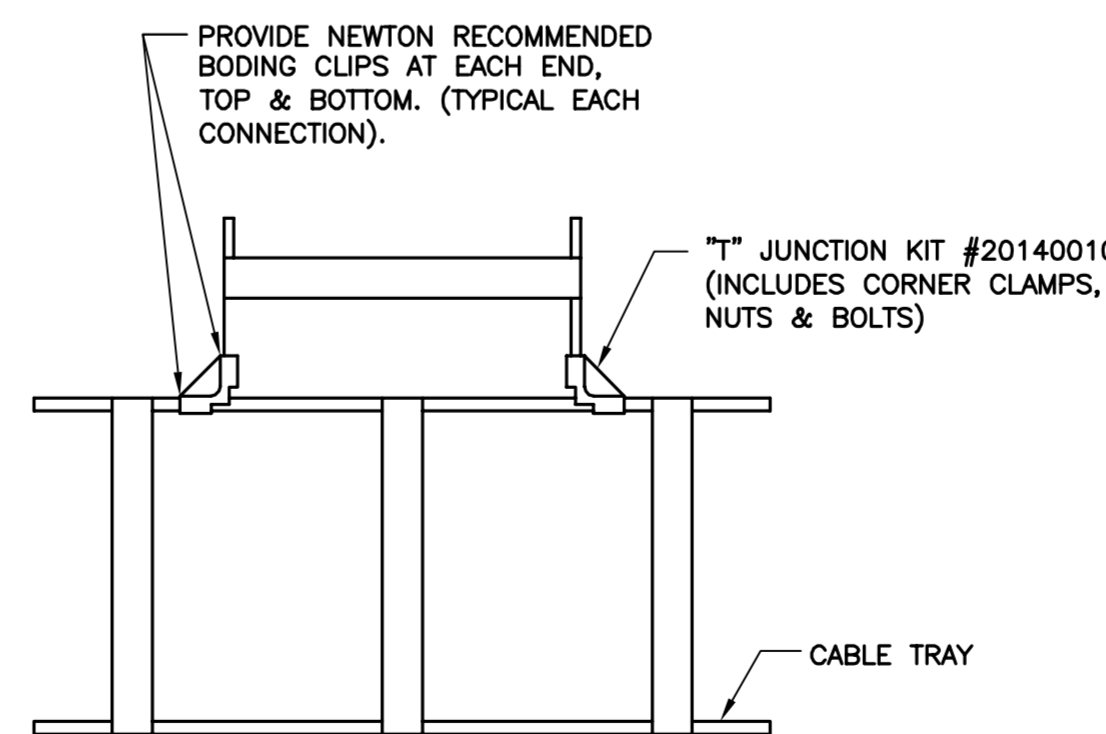
9 JUNCTIONING OF BARS OF DIFFERENT HEIGHTS
E-6 N.T.S.



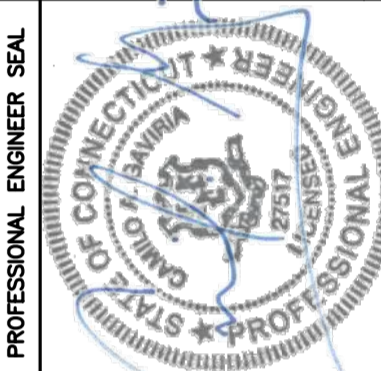
10 TYPICAL CABLE TRAY SECTION
E-6 N.T.S.



11 JUNCTIONING OF RIGHT ANGLE SIDE BARS
E-6 N.T.S.



12 CONNECTING TWO CABLE TRAYS BY 'T'-JUNCTION
E-6 N.T.S.

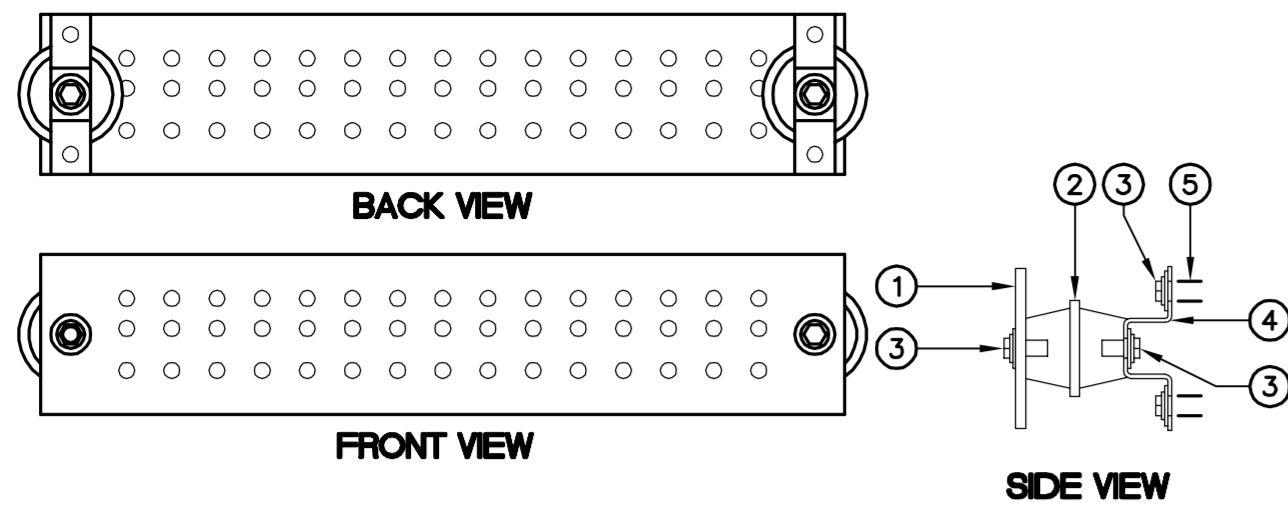


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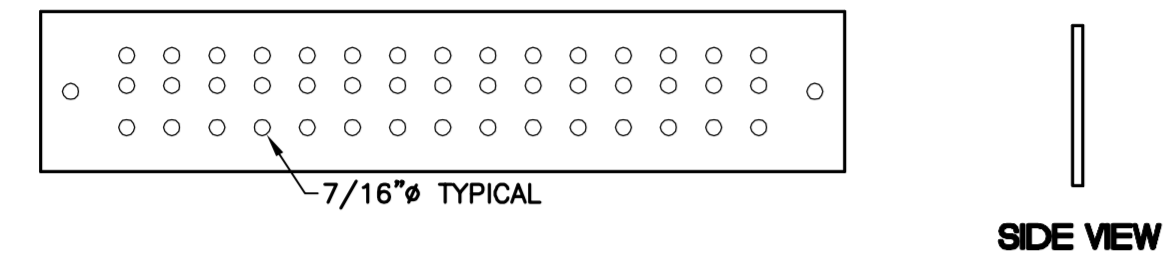
AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
CT1345 EAST LYME RELO.
THE ORCHARDS
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EAST LYME, CT 06333

DATE: 03/07/17
SCALE: AS NOTED
JOB NO. 16024.00

CABLE TRAY
DETAILS
AND NOTES

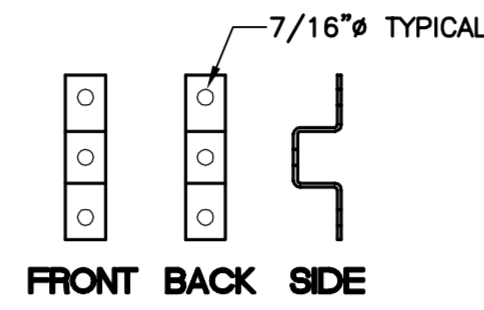


TYPICAL GROUND BAR ASSEMBLY
N.T.S.



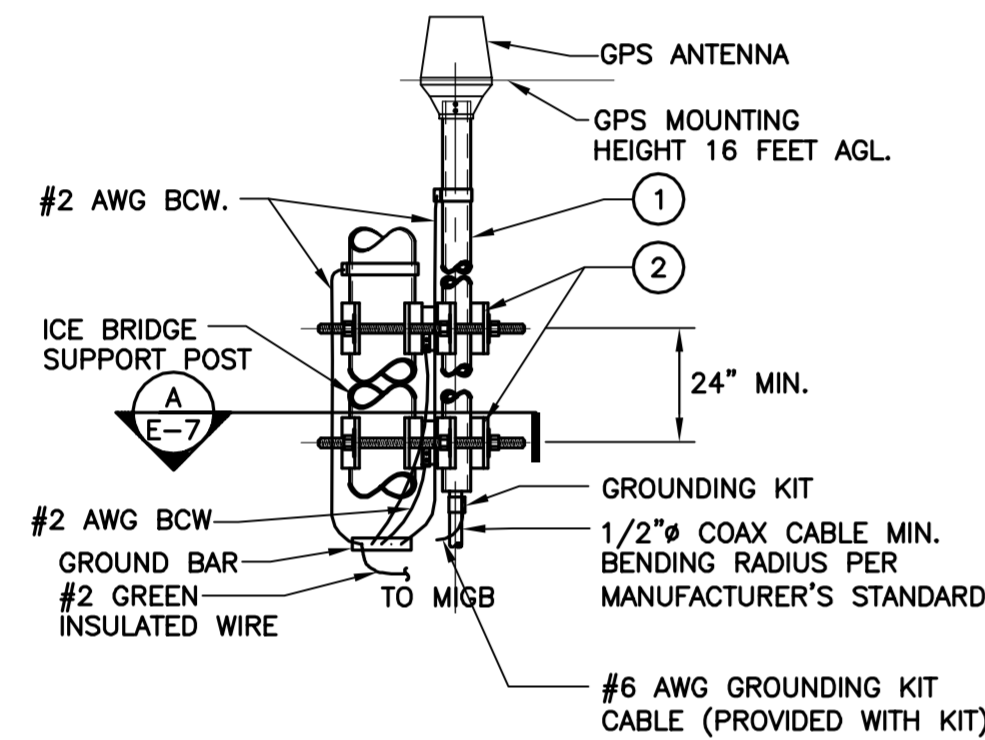
TYPICAL GROUND BAR - DIMENSIONS
N.T.S.

- NOTES**
- HIGH CONDUCTIVITY TINNED COPPER BAR 1'-8" L x 4" W x 1/4" D.
 - RED COLORED STANDOFF INSULATOR PLASTIC #1872-1A.
 - STAINLESS STEEL TRUSS SPANNER MACHINE SCREWS, SPLIT LOCKWASHER AND FLAT WASHER.
 - 1" W x 1/8" T STAINLESS STEEL TYPE 304 BRACKET.
 - STAINLESS STEEL TYPE 304 HARDWARE - 3/8" EXPANSION BOLT FOR CONCRETE.



BRACKET FOR GROUND BAR - DIMENSIONS
N.T.S.

1 MASTER/EQUIPMENT GROUND BAR DETAILS
E-7 N.T.S.

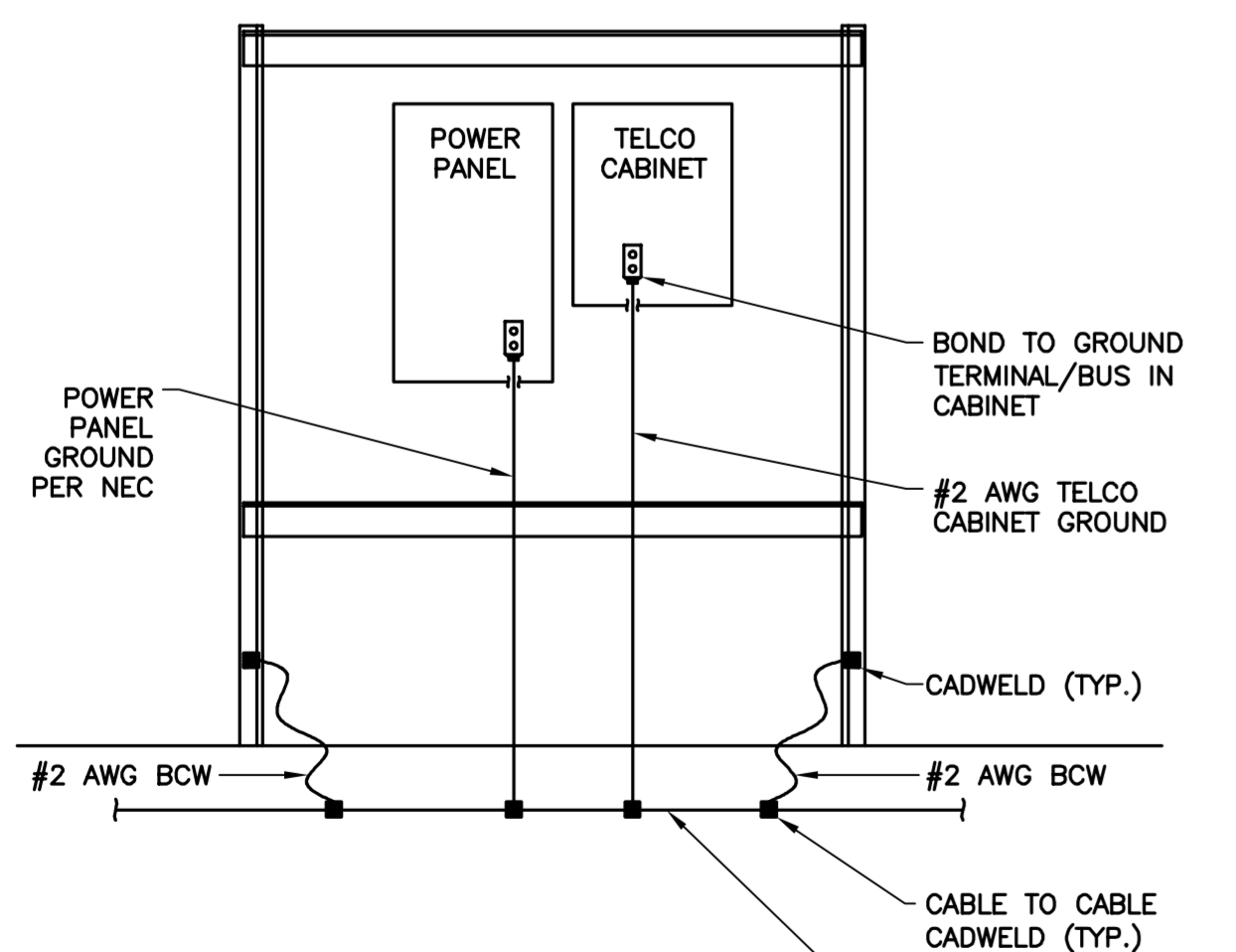


GPS ANTENNA MOUNTING BRACKET

BILL OF MATERIALS

ITEM	DESCRIPTION	QUANTITY
1	2-1/2" SCH. 40 x 8'-0" LG. MAX SS OR GALV. PIPE	1
2	UNIVERSAL CLAMP SET.	2

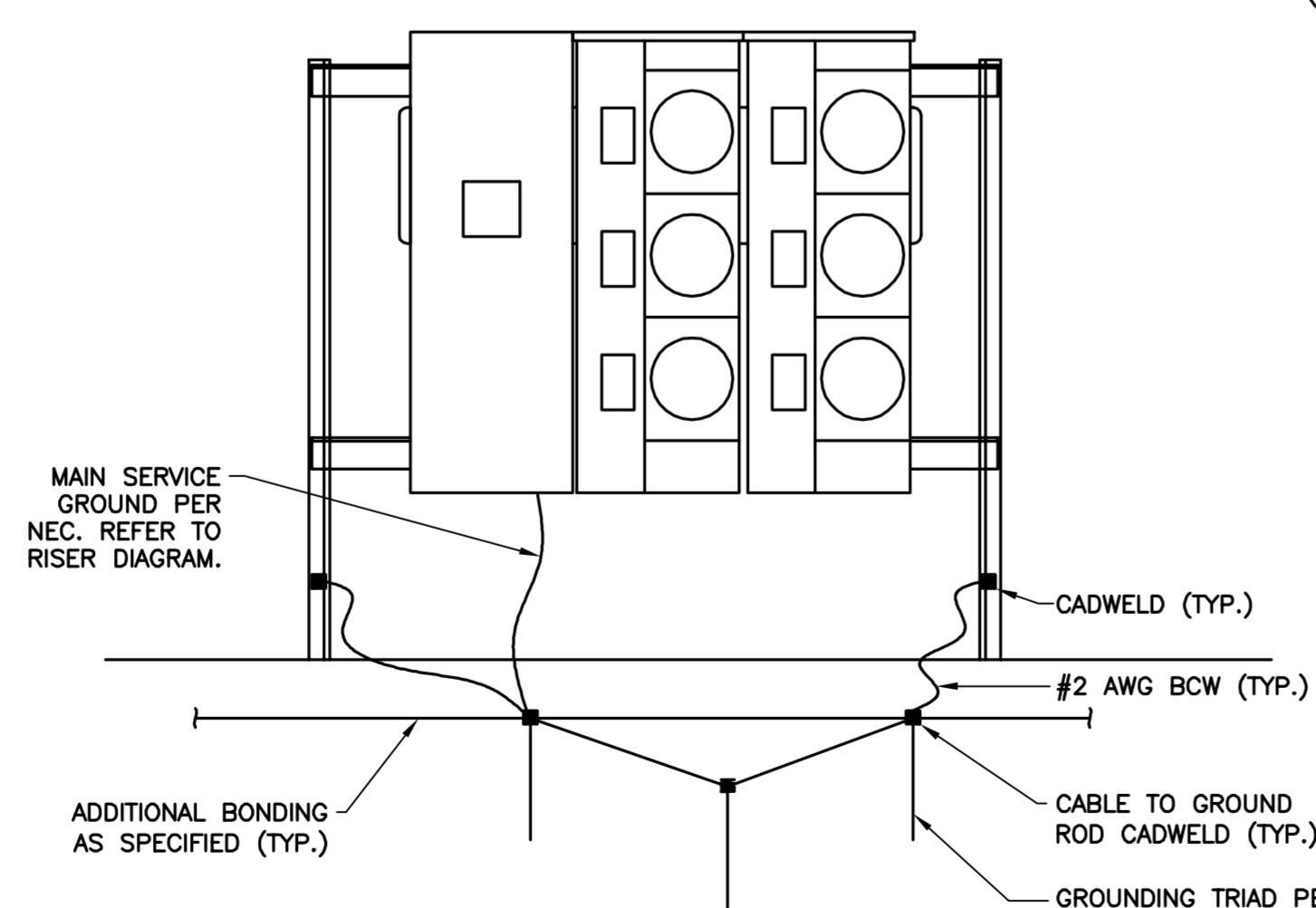
4 GPS GROUNDING/MOUNTING BRACKET DETAIL
E-7 NOT TO SCALE



NOTES:

- THE #2 AWG, BCW, FROM THE GROUND RING SHALL BE CADWELDED TO EACH POST, ABOVE GRADE.

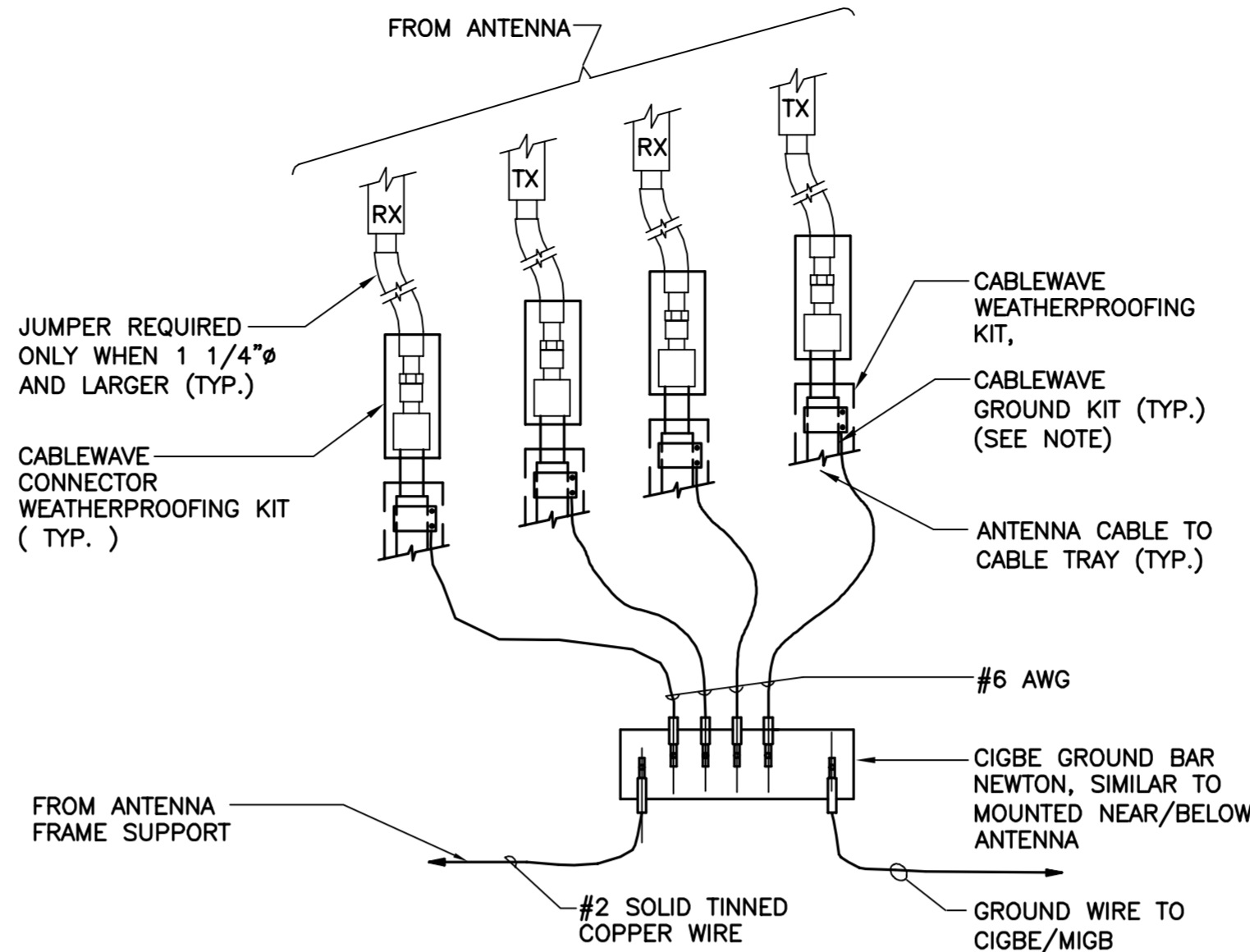
7 UTILITY FRAME GROUNDING DETAIL
E-7 NOT TO SCALE



NOTES:

- THE #2 AWG, BCW, FROM THE GROUND RING SHALL BE CADWELDED TO EACH POST, ABOVE GRADE.

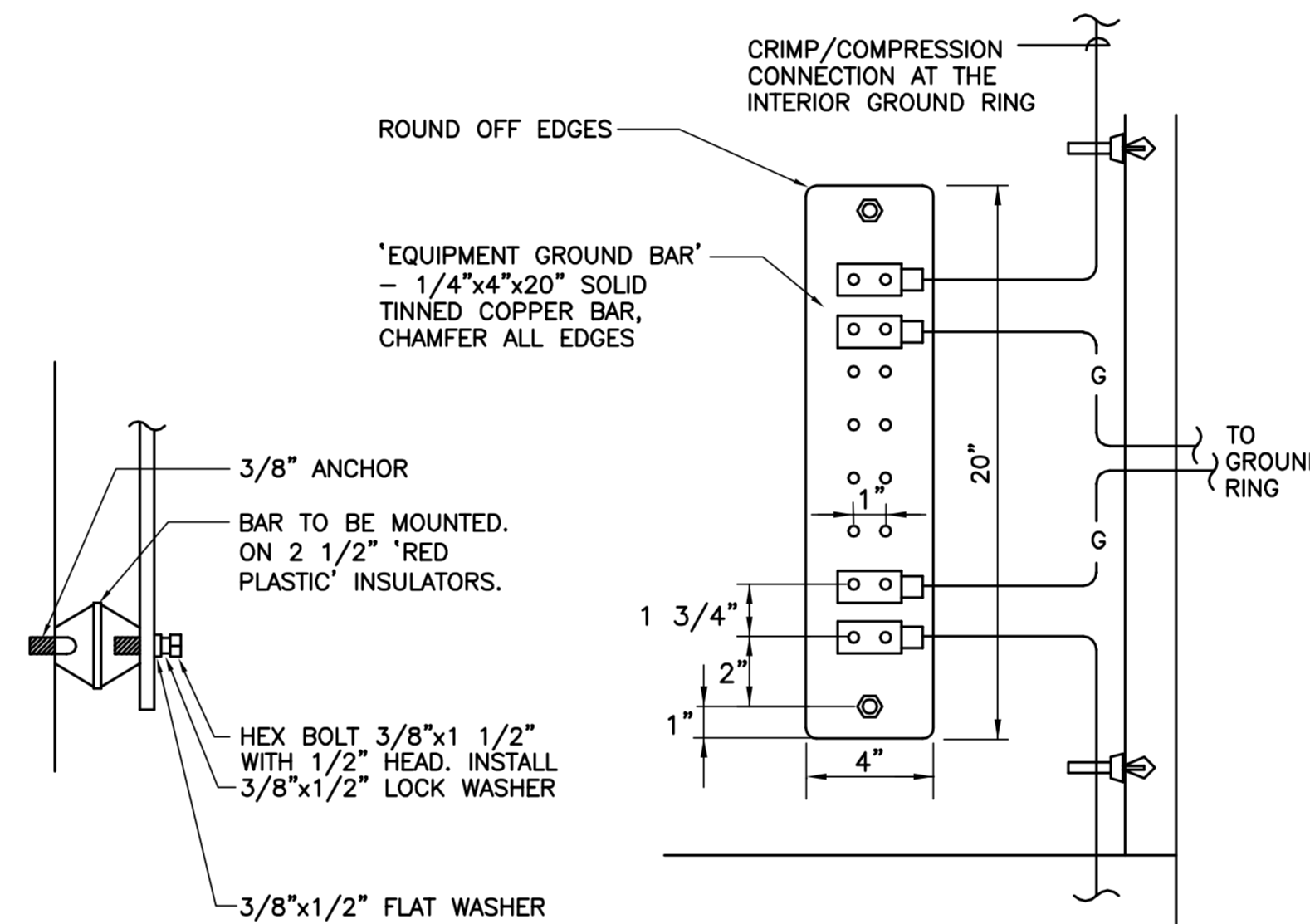
8 UTILITY FRAME GROUNDING DETAIL
E-7 NOT TO SCALE



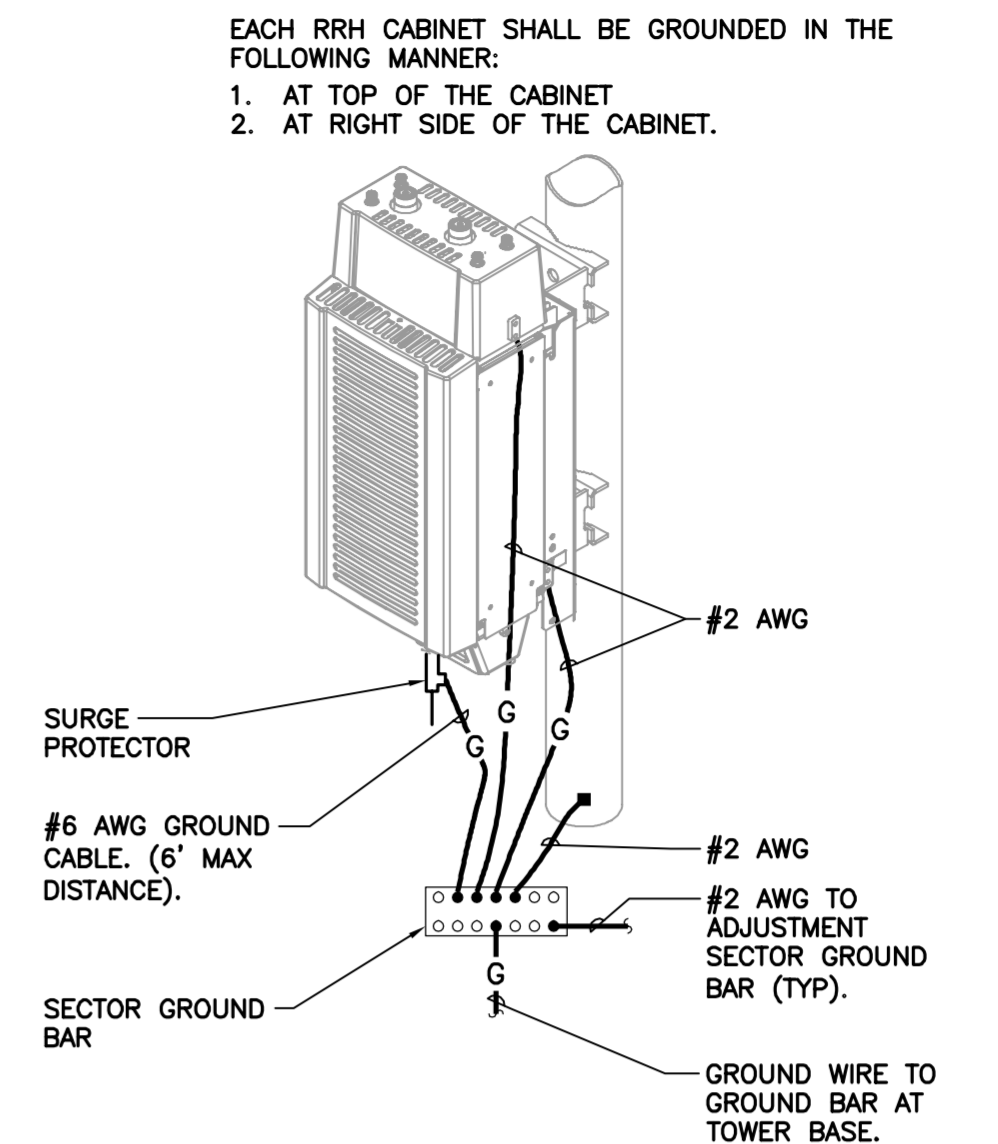
NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE

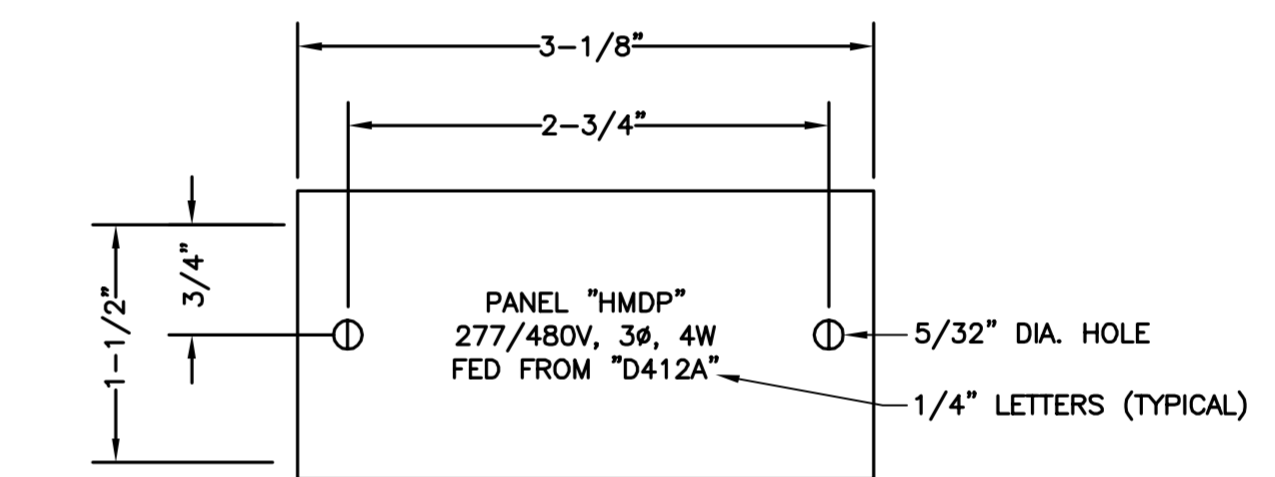
2 CONNECTION OF GROUND WIRES TO GROUND BAR
E-7 NOT TO SCALE



5 EQUIPMENT GROUND BAR DETAIL
E-7 NOT TO SCALE



3 RRH POLE MOUNT GROUNDING
E-7 NOT TO SCALE



NOTES:

- REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
- NAMEPLATE TO BE 1/16" WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE TO BE WHITE, ENGRAVED LETTERS TO BE BLACK.
- SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS.

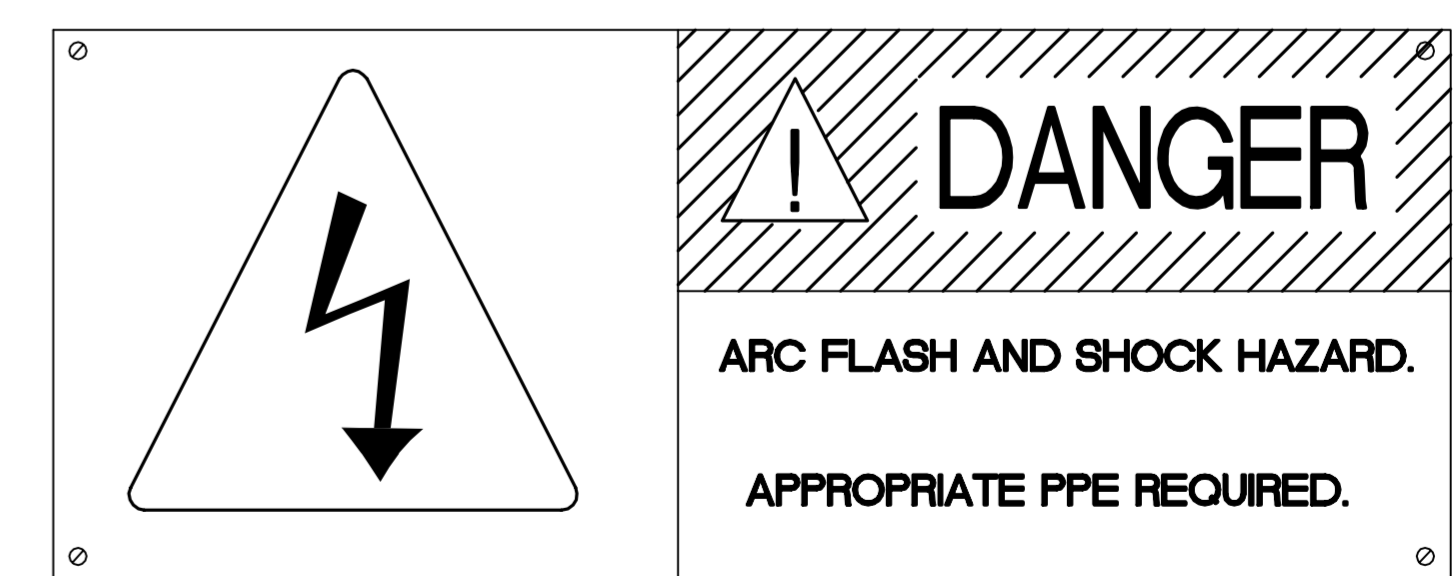
6 DETAIL OF TYPICAL NAMEPLATE
E-7 NOT TO SCALE



NOTES:

- REFER TO SPECIFICATIONS FOR FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
- PROVIDE WARNING LABEL ON ALL SERVICE EQUIPMENT IN ACCORDANCE WITH CURRENT NEC REQUIREMENTS.
- PROVIDE FAULT SHORT CIRCUIT AND COORDINATION STUDY TO ENSURE COMPLIANCE WITH NEC REQUIREMENTS.

9 DETAIL OF TYPICAL FAULT CURRENT SIGN
E-7 NOT TO SCALE



NOTES:

- REFER TO SPECIFICATIONS FOR FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
- PROVIDE WARNING LABEL ON ALL SWITCHBOARDS, DISTRIBUTION PANELS, PANELBOARDS IN ACCORDANCE WITH NEC REQUIREMENTS.

10 DETAIL OF TYPICAL FLASH PROTECTION WARNING SIGN
E-7 NOT TO SCALE

CONSTRUCTION DRAWINGS - ISSUED FOR PERMITTING

DATE: 04/27/17
SCALE: AS NOTED
JOB NO. 16024.00

AT&T MOBILITY
WIRELESS COMMUNICATIONS FACILITY
CT1345 EAST LYME RELO.
THE ORCHARDS
2 ARBOR CROSSING
EAST LYME, CT 06333

DATE: 03/07/17
SCALE: AS NOTED
JOB NO. 16024.00

ELECTRICAL DETAILS

E-7

Sheet No. 22 of 25

TOWN OF EAST LYME BUILDING PERMIT APPLICATION

Building Permit No: B180402-2

Date of Application: 4/2/18

Town of East Lyme Building Department
108 Pennsylvania Avenue PO Box 519
Niantic, CT 06357
(860) 691-4114 (860) 691-0351 Fax

**Commercial or Residential
and/OR
HVAC Electrical Plumbing**

Job Location: 2 Arbor Crossing

Description of Work to Be Performed: Construction of a faux silo and barn to house a multi-carrier telecommunications facility

(Modifications/changes to approved plans must be submitted to ALL departments **PRIOR TO CONSTRUCTION.**)

Property Owner's Name: Orchards At East Lyme, Inc.

Property Owner's Address/Phone: c/o Carrier Enterprises, Inc., 117 Birch St., Southington, CT 06489

Contractor's Name: White Mountain Communications Corp.

Home Improvement Reg. # /New Home Contractor #: MCO.090 2766

Contractor's Mailing Address: 18 Glenn Rd., Gorham, NH 03581-1209

Contractor's Phone/Cell/Email: 603-466-5907 / dmtupick@nc.rr.com

Construction Information:

Check appropriate box:

Use Group:	Municipal Water:	
Construction Type:	Well Water:	
Number of Stories:	Private Septic:	
Sq. Ft. of Floor Area per Story:	Municipal Sewer:	
Flood Plain:	Heating System: Yes or No	

IF PROPERTY IS SERVED BY PRIVATE SEPTIC, PLEASE SUBMIT A COPY OF ALL PLANS TO THE LEDGE LIGHT HEALTH DISTRICT, LOCATED WITHIN THE BUILDING OFFICE.

CERTIFICATION: I hereby certify that: _____ I am the owner of record of the named property or X that the proposed work is authorized by the owner of record and/or I have been authorized to make this application as an authorized agent, and we agree to conform to all applicable laws, regulations and ordinances. All information contained within is true and accurate to the best of my knowledge and belief.

Printed name of Applicant: Dan Bilezikian - SAI Communications, Inc / on behalf of AT&T

Applicant Address: PO Box 246 Rehoboth, MA 02769

Applicant Phone/Cell/Email: 401-368-0006 / dan.bilezikian@sai-comm.com

Applicant Signature: [Signature] Date: 3/28/18

Commercial or Residential - Check Trade Permits Included:

ELEC PLMB _____ HVAC _____ SPR _____

CRS # _____

Estimated Value of Work: \$	<u>750,000.00</u>
Permit Fee: \$	<u>7,500.00</u>
State Education Fee: \$	<u>195.00</u>
Total: \$	<u>7,695.00</u>

Approved by: [Signature]

Date: 5-18-18