

UNIVERSITY OF RHODE ISLAND RADIO REPLACEMENT 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892

CONSTRUCTION DRAWINGS

PROJECT CONTACTS

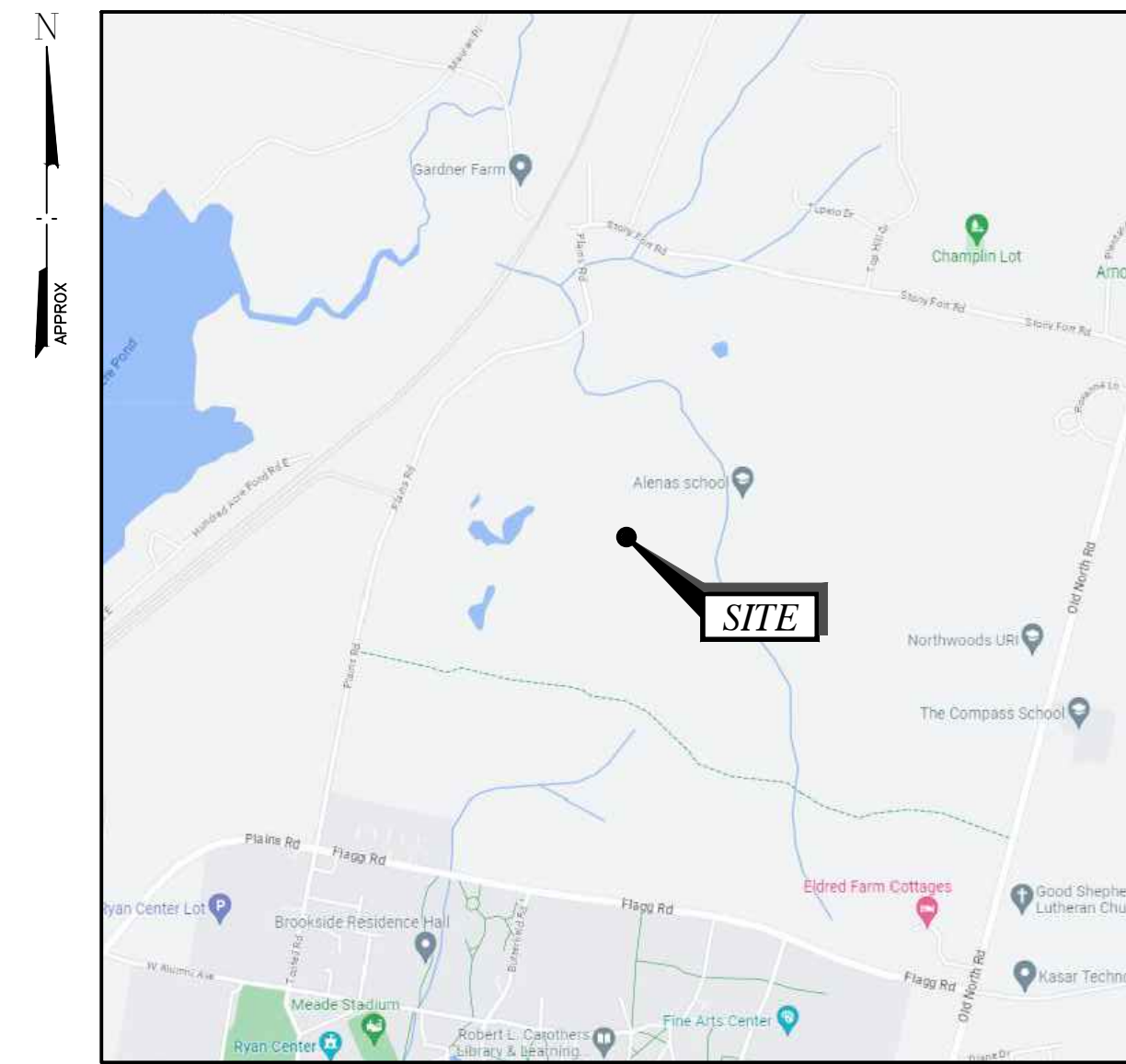
	NAME	COMPANY	NUMBER
APPLICANT	KYLE COLEMAN	UNIVERSITY OF RHODE ISLAND OFFICE OF CAPITAL BUILDINGS 60 TOOTELL ROAD – SHERMAN BUILDING KINGSTON, RI 02881	(401) 500-1064
A/E	EDWARD IAMICELI	TECTONIC ENGINEERING CONSULTANTS INC. 1279 ROUTE 300 NEWBURGH, NY 12550	(845) 567-6656

PROJECT INFORMATION

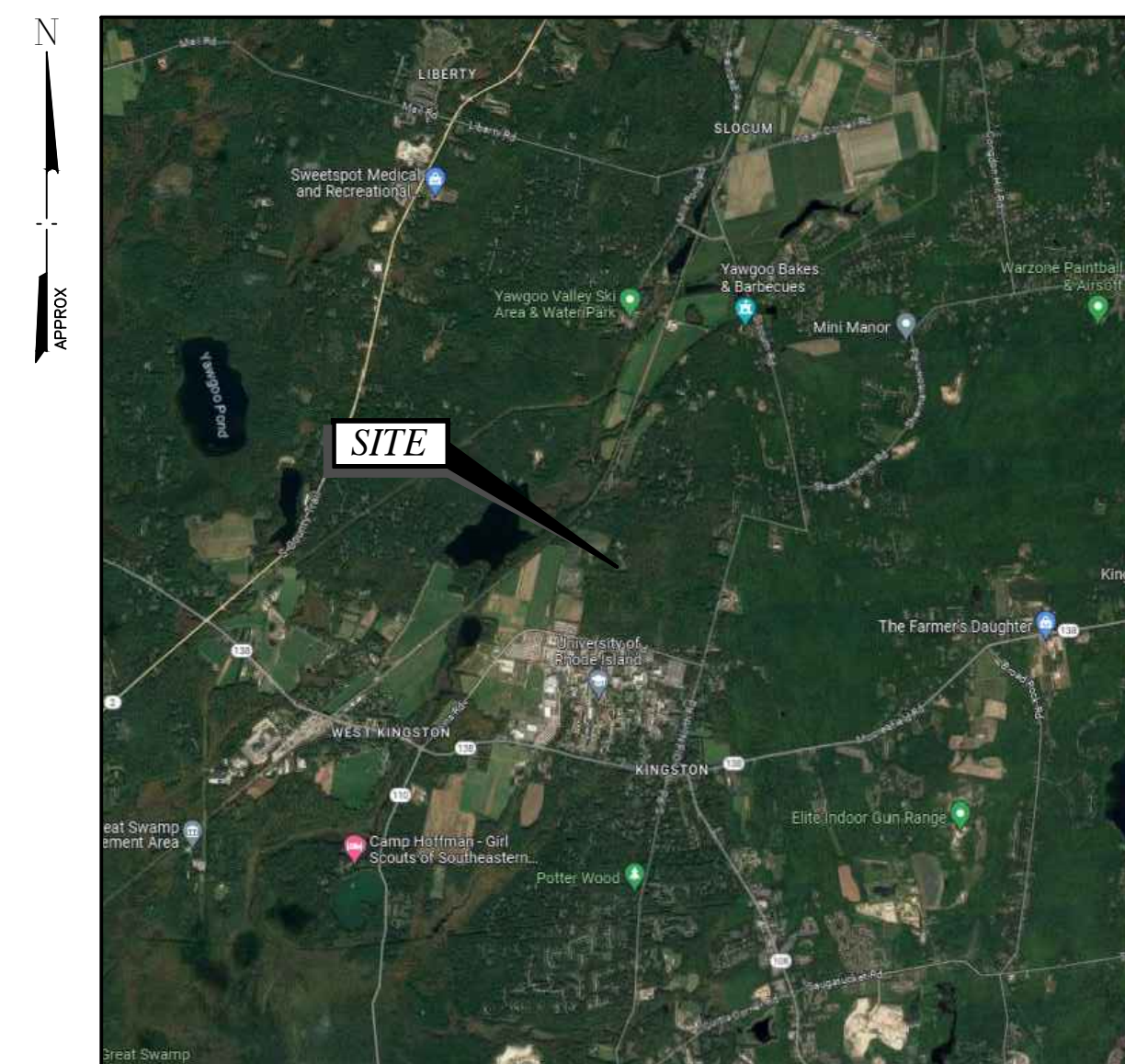
SCOPE OF WORK: EXISTING EQUIPMENT SHELTER AND ASSOCIATED EQUIPMENT ALONG WITH THE FOUNDATION SHALL BE DEMOLISHED. A PROPOSED 400' GUYED TOWER, PROPOSED SHELTER & GENERATOR ON A PROPOSED CONCRETE FOUNDATION ARE TO BE INSTALLED WITHIN THE NEW FENCED-IN COMPOUND.

SITE ADDRESS: 875 PLAINS ROAD
TOWN OF SOUTH KINGSTON
WASHINGTON COUNTY, RI 02892

PROPERTY OWNER: UNIVERSITY OF RHODE ISLAND
 APPLICANT: UNIVERSITY OF RHODE ISLAND
 LATITUDE: 41° 29' 51.64"± N (NAD 83)
 LONGITUDE: 71° 31' 41.93"± W (NAD 83)
 ELEVATION: 1812'± AMSL (NAVD 88)
 JURISDICTION: TOWN OF SOUTH KINGSTON
 PARCEL ID: MAP 15-2, LOT 1



VICINITY MAP
NOT TO SCALE



AERIAL MAP
NOT TO SCALE

DRAWING INDEX

SHEET NO	DWG NO	DRAWING TITLE	REV	DATE
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2 OF 2	SV-101	EXISTING CONDITIONS AND TOPOGRAPHY PLAN	0	8/9/2023

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PLANS ARE NOT TO BE SCALED.



THE
UNIVERSITY
OF RHODE ISLAND

Rev	Date	Revision	Approved	DRAWING CONTROL			
0	3/18/2024	ISSUED FOR BID		Designed by: MB	Drawn by: VM	Checked by: EI	
1	6/7/2024	ISSUED FOR PERMIT		Purpose:	Released by:	Date:	
2	6/18/2024	REISSUED FOR PERMIT		<input type="radio"/> For Comment			
3	8/26/2024	REISSUED FOR PERMIT		<input type="radio"/> For Approval			
				<input checked="" type="radio"/> For Permit	EI	8/26/2024	
				<input type="radio"/> For Construction			

Tectonic
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EDWARD IAMICELI
No. 0011767
REGISTERED
PROFESSIONAL ENGINEER
(CIVIL)

TITLE SHEET			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. T001	Rev 3
Scale AS NOTED			

EXISTING CONDITIONS NOTES

- EXISTING SITE FEATURES AS SHOWN ARE BASED ON A SURVEY DRAWING PREPARED BY NARRAGANSETT ENGINEERING INC., PROJECT NUMBER 19.0133, DATED 8/9/23, AND INFORMATION PROVIDED BY THE CLIENT. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION OF PROPOSED APPURTENANCES.
- BEFORE STARTING ANY OPERATION, THE CONTRACTOR SHALL EXAMINE THE CONDITION OF ALL EXISTING WORK AND WORK PERFORMED BY OTHERS IN THE AREA ADJACENT TO THEIR PROPOSED INSTALLATION, AND SHALL REPORT ANY CONDITIONS THAT WILL PREVENT SATISFACTORY ACCOMPLISHMENT OF THEIR WORK TO THE OWNER'S REPRESENTATIVE. PRIOR TO COMMENCING ANY EXCAVATION OR GRADING WORK, THE CONTRACTOR SHALL VERIFY THE ACCURACY OF ALL SURVEY DATA AS INDICATED IN THE DRAWINGS, SPECIFICATIONS, AND IN ANY DOCUMENTS PROVIDED BY OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY INACCURACIES, ERRORS, OR OMISSIONS IN THE SURVEY DATA SO THAT THE NECESSARY ADJUSTMENTS CAN BE MADE. FAILURE TO NOTIFY OWNER'S REPRESENTATIVE OF ANY DEFICIENCIES, ERRORS, OR FAULTS PRIOR TO COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE THEREOF AND WAIVER OF ANY CLAIMS OF UNSUITABILITY, ERRORS, OMISSIONS, OR INACCURACIES.
- THE CONTRACTOR SHALL MAKE NECESSARY THE PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, ETC. DURING CONSTRUCTION ACTIVITY. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PRESERVING ALL ESTABLISHED SURVEY CONTROL POINTS. IF THE CONTRACTOR OR ANY OF THEIR SUB-CONTRACTORS MOVE OR DESTROY ANY SURVEY CONTROL POINTS, THE COST INCURRED BY THE LAND OWNER OR OWNER'S REPRESENTATIVE TO RE-ESTABLISH THEM WILL BE BORNE BY THE CONTRACTOR.

LEGEND & ABBREVIATIONS

	DIRECTION OF ELEVATION VIEW	LBS	POUNDS
	DIRECTION OF ELEVATION SECTION	LLH	LONG LEG HORIZONTAL
		LLV	LONG LEG VERTICAL
		LP	LOW POINT
		MAS	MASONRY
		MATL	MATERIAL
		MAX	MAXIMUM
		MECH	MECHANICAL
		MH	MANHOLE
		MIN	MINIMUM
		MISC	MISCELLANEOUS
		MO	MASONRY OPENING
		MTD	MOUNTED
		MTG	MOUNTING
		MTL	METAL
		NIC	NOT IN CONTRACT
		NO	NUMBER
		NOM	NOMINAL
		NS	NEAR SIDE
		NTS	NOT TO SCALE
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OPER WT	OPERATING WEIGHT
		OPNG	OPENING
		OPP	OPPOSITE
		OW(T)	OPEN WEB (TRUSS)
		PLBG	PLUMBING
		PREFAB	PREFABRICATED
		PSF	POUNDS PER SQUARE FOOT
		PVC	POLY VINYL CHLORIDE
		R	RISERS
		RAD	RADIUS
		RCP	REINFORCED CONCRETE PIPE
		REF	REFERENCE
		REINF	REINFORCE(D), (ING)
		REQD	REQUIRED
		REV	REVISION(S), REVISED
		SCH, SCHED	SCHEDULE
		SECT	SECTION
		SIM	SIMILAR
		SP	SPACES
		SPEC(S)	SPECIFICATION(S)
		SO	SQUARE
		SRMSW	SPECIAL REINFORCED MASONRY SHEAR WALL
		SS	STAINLESS STEEL
		STD	STANDARD
		STL	STEEL
		STR	STRUCTURAL
		T	TREAS
		T&B	TOP AND BOTTOM
		T/	TOP OF
		T/STL	TOP OF STEEL
		TBD	TO BE DETERMINED
		TBH	THERMAL BREAK/BARRIER HORIZONTAL
		TBV	THERMAL BREAK/BARRIER VERTICAL
		THD	THREADED
		TW	TOP OF WALL
		TYP	TYPICAL
		UON	UNLESS OTHERWISE NOTED
		VERT	VERTICAL
		VIF	VERIFY IN FIELD
		W/	WITH
		W/O	WITHOUT
		WOOD	WOOD
		WP	WORKING POINT
		WS	WATERSTOP
		WWF	WELDED WIRE FABRIC

GENERAL AND TELECOMMUNICATIONS NOTES

- GENERAL**
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT BUILDING CODE AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, LATEST VERSION, AND ALL OTHER APPLICABLE CODES AND ORDINANCES.
 - CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
 - PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS OTHERWISE NOTED. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO EFFECT ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
 - DIMENSIONS SHOWN ARE TO FINISH SURFACES, UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE AUTHORIZED REPRESENTATIVE OR THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
 - CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING, AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
 - ONCE THE CONTRACTOR HAS RECEIVED AND ACCEPTED THE "NOTICE TO PROCEED," CONTRACTOR WILL CONTACT THE CONSTRUCTION MANAGER OF RECORD A MINIMUM OF 48 HOURS PRIOR TO WORK START.
 - CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.
 - CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING THE BEST CONSTRUCTION SKILLS AND ATTENTION. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT, UNLESS OTHERWISE NOTED.
 - ERECTOR SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS.
 - CONTRACTOR SHALL COORDINATE THEIR WORK AND SCHEDULE THEIR ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THEIR WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
 - CONTRACTOR SHALL MAINTAIN LIABILITY INSURANCE TO PROTECT THE OWNER.
 - INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
 - MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, AND PIPING. REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
 - REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
 - KEEP CONTRACT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
 - CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.
 - PROVIDE 48 HOURS WRITTEN NOTICE TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
 - ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS AND OTHER DOCUMENTATION SHALL BE TURNED OVER TO OWNER AT COMPLETION OF CONSTRUCTION.
 - COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF 18 MONTHS AFTER DATE OF ACCEPTANCE BY ANY WORK, MATERIALS OR EQUIPMENT FOUND TO BE DEFECTIVE DURING THAT PERIOD SHALL BE CORRECTED IMMEDIATELY UPON WRITTEN NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR LANDSCAPE GRADING AND SEEDING OF THE DISTURBED SOIL. THE CONTRACTOR SHALL USE LOCAL GRASS SEED TO STABILIZE SOIL AND SHALL COVER DISTURBED AREAS WITH HAY MULCH TO REDUCE RUNOFF OF SEDIMENT TO DOWNSTREAM AREAS. THE CONTRACTOR SHALL RESTORE THE SITE TO ITS ORIGINAL CONDITION. ALL SLOPES AND DISTURBED AREAS NOT RECEIVING AGGREGATE SURFACING ARE TO BE PREPARED AND BROADCAST SEEDING AND FERTILIZED FOR EROSION PROTECTION. SEEDING FOR AREAS DISTURBED SHALL BE ESTABLISHED SEASONALLY AS REQUIRED BY LOCAL CODES.
 - THE CONTRACTOR SHALL ACKNOWLEDGE THAT ALL OR PORTIONS OF THE WORK MAY INVOLVE POSSIBLE EXPOSURE OF CONTRACTOR, SUB-CONTRACTOR, AND THEIR RESPECTIVE EMPLOYEES, AGENTS, INVITEES, LICENSEES, AND OTHER VISITORS TO THE JOBSITE AND/OR OWNER'S PREMISES TO ELECTRO-MAGNETIC ENERGY ("EME") WHILE PERFORMING WORK UNDER THIS CONTRACT, ESPECIALLY IF WORK IS PERFORMED ON EXISTING TOWERS WHERE ANTENNAS ARE LOCATED. THE CONTRACTOR SHALL ENSURE THAT CONTRACTOR, SUB-CONTRACTORS, AND ALL OF THEIR RESPECTIVE EMPLOYEES, AGENTS, INVITEES, LICENSEES, AND OTHER AUTHORIZED REPRESENTATIVES WHO ARE PERFORMING SERVICES UNDER THIS AGREEMENT WILL COMPLY WITH ALL ANSI AND ANY OTHER APPLICABLE EME STANDARDS, RULES OR REGULATIONS, INCLUDING BUT NOT LIMITED TO, THOSE RULES OR REGULATIONS IMPOSED OR SUGGESTED BY THE OWNER, IF ANY. THE CONTRACTOR SHALL ADHERE TO ALL OSHA RULES, REGULATIONS, AND ADOPTED POLICIES. ALL CONTRACTOR PERSONNEL SHALL HAVE UNDERGONE ELECTROMAGNETIC ENERGY (EME) TRAINING FOR PERSONNEL WORKING IN THE VICINITY OF ACTIVE ANTENNAS. AS SUCH, IT IS RECOMMENDED THAT RF MONITORS BE USED BY THE TOWER PERSONNEL TO MONITOR EXPOSURE LEVELS. IF EME LEVELS AT THE SITE EXCEED THE MAXIMUM PERMISSIBLE EXPOSURE LIMITS, THE CONTRACTOR SHALL COORDINATE WITH THE INDIVIDUALS RESPONSIBLE FOR USE OF THE TRANSMITTER TO MAKE SURE THAT THE EQUIPMENT IS DEACTIVATED BEFORE WORK CAN BE RESUMED, WITHOUT CAUSING A SERIOUS DISRUPTION OF THE SERVICE.
 - THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL DEMONSTRATE TO THE OWNER'S REPRESENTATIVE THAT ALL SYSTEMS AND SUB-SYSTEMS INSTALLED UNDER THIS CONTRACT OPERATE PROPERLY, PRIOR TO THE FINAL INSPECTION ACCEPTANCE. PROVIDE THE OPERATIONS AND MAINTENANCE MANUALS AT THIS TIME.
 - THE MODIFICATIONS TO THE DRAWINGS AFTER START OF CONSTRUCTION SHALL BE APPROVED BY OWNER'S REPRESENTATIVE AND ENGINEER PRIOR TO ANY CHANGES BEING MADE. THE ENGINEER OF RECORD SHALL MAKE THE REQUIRED CHANGE AND WILL SUBMIT CHANGES TO OWNER'S REPRESENTATIVE AND ANY JURISDICTION HAVING AUTHORITY.

- MODIFICATIONS TO SITE LAYOUT
 - GROUNDING SYSTEM LAYOUT
 - UNDERGROUND FUEL LINE RUN
 - UNDERGROUND TELCO CABLE RUN
 - UNDERGROUND ELECTRICAL RUN
- WHEN THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING THE SITE EQUIPMENT ROOM, ISOLATION TRANSFORMER, GENERATOR, ETC. THAT REQUIRES PERIODIC MAINTENANCE, THE CONTRACTOR SHALL INCLUDE ALL OPERATION AND MAINTENANCE MANUALS AND ALL AS-BUILT DRAWINGS WHICH FULLY DESCRIBE THE ACTUAL INSTALLED EQUIPMENT.
27. THE OWNER'S REPRESENTATIVE SHALL PROVIDE A CERTIFICATE OF COMPLETION AND APPROVE FINAL PAYMENT WHEN ALL PUNCH-LIST ITEMS HAVE BEEN CORRECTED, RECORD DRAWINGS SUBMITTED, AND ALL SYSTEMS ARE ACCEPTABLE. THE CONTRACTOR MUST ALSO RECEIVE A CERTIFICATE OF COMPLETION FROM THE MUNICIPALITY. AFTER FINAL PAYMENT, CONTRACTOR SHALL SIGN A RELEASE OF LIEN.
- ANTENNA**
- DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL ALSO CONFORM TO LATEST & APPLICABLE DESIGN AND CONSTRUCTION OF ANTENNA SUPPORTS SHALL CONFORM TO THE LATEST AND APPLICABLE ANSI/TIA-222 STANDARD.
- ALL ANTENNA MOUNTS AND ASSOCIATED APPURTENANCES SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTOR SHALL INSTALL ANTENNA PER MANUFACTURER'S RECOMMENDATION FOR INSTALLATION AND GROUNDING.
 - ALL CABLES SHALL BE GROUNDING WITH COAXIAL CABLE GROUNDING KITS. FOLLOW THE MANUFACTURER'S RECOMMENDATIONS.
 - GROUNDING AT THE ANTENNA LEVEL.
 - GROUNDING AT MID LEVEL, TOWERS WHICH ARE OVER 200'-0", ADDITIONAL CABLE GROUNDING REQUIRED.
 - GROUNDING AT BASE OF TOWER PRIOR TO TURNING HORIZONTAL.
 - GROUNDING OUTSIDE THE EQUIPMENT SHELTER AT ENTRY PORT.
 - GROUNDING INSIDE THE EQUIPMENT SHELTER AT THE ENTRY PORT.
 - ALL PROPOSED GROUNDING BAR DOWNLEADS ARE TO BE TERMINATED TO THE EXISTING ADJACENT GROUNDING BAR DOWNLEADS A MINIMUM DISTANCE OF 4'-0" BELOW GROUNDING BAR. TERMINATIONS MAY BE EXOTHERMIC OR COMPRESSION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ANTENNA AND THE COAX CONFIGURATION IS THE CORRECT MAKE AND MODELS, PRIOR TO INSTALLATION.
 - ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC. SHALL BE INSTALLED PER TOWER MANUFACTURER'S SPECIFICATION & RECOMMENDATIONS.
 - CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ANTENNA, TMAS, DPLXERS, AND COAX CONFIGURATION, MAKE AND MODELS PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL REFERENCE THE TOWER STRUCTURAL ANALYSIS/DESIGN DRAWINGS FOR DIRECTIONS ON CABLE DISTRIBUTION/ROUTING.
 - ALL OUTDOOR RF CONNECTORS/CONNECTIONS SHALL BE WEATHERPROOFED, EXCEPT THE RET CONNECTORS, USING BUTYL TAPE AFTER INSTALLATION AND FINAL CONNECTIONS ARE MADE. BUTYL TAPE SHALL HAVE A MINIMUM OF ONE-HALF TAPE WIDTH OVERLAP ON EACH TURN AND EACH LAYER SHALL BE WRAPPED THREE TIMES. WEATHERPROOFING SHALL BE SMOOTH WITHOUT BUCKLING. BUTYL BLEEDING IS NOT ALLOWED.
 - IF REQUIRED TO PAINT ANTENNAS AND/OR COAX:
 - TEMPERATURE SHALL BE ABOVE 50° F.
 - PAINT COLOR MUST BE APPROVED BY BUILDING OWNER/LANDLORD.
 - FOR REGULATED TOWERS, FAA/FCC APPROVED PAINT IS REQUIRED.
 - DO NOT PAINT OVER COLOR CODING OR ON EQUIPMENT MODEL NUMBERS.
 - PRIOR TO SETTING ANTENNA AZIMUTHS AND DOWNTILTS, ANTENNA CONTRACTOR SHALL CHECK THE ANTENNA MOUNT FOR TIGHTNESS AND ENSURE THAT THEY ARE PLUMB. ANTENNA AZIMUTHS SHALL BE SET FROM TRUE NORTH AND BE ORIENTED WITHIN +/- 3%. ANTENNA DOWNTILTS SHALL BE WITHIN +/- 0.5%.
 - ALL UNUSED PORTS ON ANY ANTENNAS SHALL BE TERMINATED WITH A 50-OHM LOAD TO ENSURE ANTENNAS PERFORM AS DESIGNED.
 - UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY AKTORE, HARVEY, IL OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
 - MINIMUM BEND RADIUS, OF ANTENNA CABLES SHALL BE IN ACCORDANCE WITH CABLE MANUFACTURERS RECOMMENDATIONS.
 - CONTRACTOR TO VERIFY ALL REQUIRED LENGTHS OF MATERIAL PRIOR TO ORDERING MATERIALS.
 - CONTRACTOR TO TAG COAX CABLE AT BOTH ENDS WITH ANTENNA DESIGNATION AS REQUIRED BY CONSTRUCTION MANAGER.
- FIBER**
- THE FIBER OPTIC TRUNK CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY. WHEN INSTALLING FIBER OPTIC TRUNK CABLES INTO A CABLE TRAY SYSTEM, THEY SHALL BE INSTALLED INTO AN INNERDUCT AND A PARTITION BARRIER SHALL BE INSTALLED BETWEEN THE HIGH VOLTAGE CABLES AND THE INNERDUCT IN ORDER TO SEGREGATE CABLE TYPES. FIBER OPTIC TRUNK CABLES SHALL HAVE APPROVED CABLE RESTRAINTS EVERY (60) SIXTY FEET AND SECURELY FASTENED TO THE CABLE TRAY SYSTEM. NFPA 70 (NEC) ARTICLE 770 RULES SHALL APPLY.
 - THE TYPE TC-ER CABLES SHALL BE INSTALLED INTO CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY AND SHALL BE SECURED AT INTERVALS NOT EXCEEDING (6) SIX FEET. AN EXCEPTION, WHERE TYPE TC-ER CABLES ARE NOT SUBJECT TO PHYSICAL DAMAGE, CABLES SHALL BE PERMITTED TO MAKE A TRANSITION BETWEEN CONDUITS, CHANNEL CABLE TRAYS, OR CABLE TRAY WHICH ARE SERVING UTILIZATION EQUIPMENT OR DEVICES, A DISTANCE (6) SIX FEET SHALL NOT BE EXCEEDED WITHOUT CONTINUOUS SUPPORTING. NFPA 70 (NEC) ARTICLES 336 AND 392 RULES SHALL APPLY.
 - WHEN INSTALLING FIBER OPTIC TRUNK CABLES OR TYPE TC-ER CABLES INTO CONDUITS, NFPA 70 (NEC) ARTICLE 300 RULES SHALL APPLY.

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PLANS ARE NOT TO BE SCALED.

ORIGINAL SIZE IN INCHES



THE UNIVERSITY OF RHODE ISLAND

Rev	Date	Revision	Approved
0	3/18/2024	ISSUED FOR BID	
1	6/7/2024	ISSUED FOR PERMIT	
2	6/18/2024	REISSUED FOR PERMIT	
3	8/26/2024	REISSUED FOR PERMIT	

DRAWING CONTROL			
Designed by:	Drawn by:	Checked by:	EI
MB	VM		
Released by:		Date	
<input type="radio"/> For Comment			
<input type="radio"/> For Approval			
<input checked="" type="radio"/> For Permit	EI		8/26/2024
<input type="radio"/> For Construction			

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 No. 0011767
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

GENERAL/STR NOTES, TESTING & INSPECTIONS

PROPOSED GUYED TOWER
 875 PLAINS ROAD
 TOWN OF SOUTH KINGSTON
 WASHINGTON COUNTY, RI 02892

Date: 3/18/2024	Work Order: 12117.01	Drawing No.: T002	Rev: 3
Scale: AS NOTED			

SPECIAL INSPECTIONS REQUIRED

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT BUILDING CODE AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES, LATEST VERSION:

- CONCRETE CONSTRUCTION IBC §1705.3
 - DESIGN MIX
 - REINFORCING STEEL
 - FORMWORK
 - CONCRETE PLACEMENT
 - TEST CYLINDERS
 - POST-INSTALLED ANCHORS
- SOILS/SUBGRADE IBC §1705.6

ALL SPECIAL INSPECTIONS SHALL BE PERFORMED DURING THE COURSE OF CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR NOT LESS THAN 72 HOURS IN ADVANCE OF PERFORMING WORK REQUIRING SPECIAL INSPECTION.

REQUIRED SUBMITTALS

CONTRACTOR SHALL SUBMIT THE FOLLOWING ITEMS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL, AND SHALL INCORPORATE ALL COMMENTS PRIOR TO START OF FABRICATION OR INSTALLATION:

- CONSTRUCTION SCHEDULE
- CONCRETE
 - CONCRETE MIX DESIGNS 7 DAYS PRIOR TO CONSTRUCTION
 - REBAR CUTTING, BENDING & PLACING DWGS 14 DAYS PRIOR TO FABRICATION
 - CONCRETE ACCESSORIES DATA SHEETS WITH REBAR PLACING DRAWINGS

TESTING PROCEDURES REQUIRED

CONTRACTOR SHALL CONTRACT AN INDEPENDENT "THIRD PARTY" TESTING FIRM TO PERFORM AND SUBMIT THE RESULTS OF ALL TESTS REQUIRED BY THE PROJECT SPECIFICATIONS AND DRAWINGS THAT FALL WITHIN THIS SCOPE OF WORK. THESE RESULTS SHALL BE SUBMITTED TO THE DESIGNATED OWNER'S REPRESENTATIVE. AT A MINIMUM, THE INDEPENDENT "THIRD PARTY" TESTING FIRM SHALL PERFORM AND SUBMIT THE RESULTS OF THE FOLLOWING TESTS:

- FREQUENCY DOMAIN REFLECTOMETER (FDR) WITH PRECISION LOAD/SWEEP TEST FOR ANTENNA AND TRANSMISSION LINE INSTALLATION WORK IN ACCORDANCE WITH GUIDELINES AS OUTLINED BY OWNER
- GROUNDING RESISTANCE TEST FOR GROUNDING WORK
- STRUCTURAL (TOWER) STEEL MATERIALS, FINISH, ASSEMBLY, AND PROPER ASSEMBLY/INSTALLATION OF ANTENNAS AND TRANSMISSION LINES WITH "THIRD PARTY CLIMB" AND REPORT INCLUDING PHOTO DOCUMENTATION.

DESIGN CRITERIA

LOCATION: TOWN OF KINGSTON, RI
 BUILDING CODE (AS PER ASCE 7-16 & TIA-REVH): 2019 RHODE ISLAND BUILDING CODE (2018 IBC WITH AMENDMENTS)
 WIND WIND SPEED: 130 MPH (ULTIMATE WIND SPEED)
 WIND SPEED: 50 MPH (WITH ICE)
 ICE THICKNESS: 1.00 IN
 EXPOSURE CATEGORY: C
 RISK CATEGORY: II
 SEISMIC IMPORTANCE FACTOR (I_s): 1
 RISK CATEGORY: II
 S_s: 0.161G
 S₁: 0.058G
 S₂:
 SITE CLASS: D
 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

FOUNDATION DESIGN DATA

ALLOWABLE SOIL BEARING PRESSURE: 6,000 PSF
 UNIT WEIGHT OF BACKFILL: 115 PCF
 GEOTECHNICAL INVESTIGATION REPORT PREPARED BY TECTONIC ENGINEERING CONSULTANTS INC., DATED 08/30/2023. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION.

DELEGATED DESIGN

THE TOWER STRUCTURE AND FOUNDATION IS A DELEGATED DESIGN. THE CONTRACTOR SHALL PROVIDE A FULL DESIGN OF THE TOWER AND FOUNDATION AS PER THE DESIGN PARAMETERS PROVIDED AND GEOTECHNICAL REPORT. FINAL DESIGN TO BE SUBMITTED TO THE ENGINEER OF RECORD (EOR) AND SIGNED AND SEALED IN THE STATE OF RHODE ISLAND.

NFPA NOTES

THE SITE SHALL CONFORM TO THE LATEST NFPA 1, 101, AND 72 STANDARDS REQUIRED IN THE STATE AND AMENDED BY THE STATE OF RHODE ISLAND.

FOUNDATION NOTES

EARTHWORK

- ALL EXCAVATIONS SHALL BE DEWATERED BY PUMPING, PUMPING, ETC. IN A MANNER WHICH WILL NOT LOOSEN FOUNDATION SUBGRADE MATERIAL. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS BY MEANS OF BERMS, DIVERSION DITCHES, OR OTHER SUITABLE METHODS.
- CONFINED EXCAVATIONS FOR FOUNDATIONS, UTILITIES, ETC. SHALL BE LIMITED TO 4 FT. IN DEPTH UNLESS SHORING AND BRACING ARE USED. TRENCH EXCAVATION GEOMETRY AND/OR BRACING SHALL CONFORM WITH LATEST OSHA REQUIREMENTS.
- REMOVE UNSUITABLE MATERIALS AND PROFFROLL OR OTHERWISE COMPACT SUBGRADE PRIOR TO PLACEMENT OF FILL OR CONSTRUCTION OF FOUNDATIONS.
- ENGINEERED (STRUCTURAL) FILL SHALL BE WELL-GRADED, DURABLE, GRANULAR SOIL, FREE OF DEBRIS AND ORGANIC MATTER, CONFORMING TO THE FOLLOWING GRADATION:

SIZE	PERCENT FINER BY WEIGHT
3"	100
1/4"	30-70
No. 40	5-40
No. 200	0-10
- ON-SITE SOILS MAY BE USED AS ENGINEERED (STRUCTURAL) FILL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEER OF RECORD.
- FILL AND BACKFILL SHALL BE PLACED IN MAXIMUM LOOSE LIFT THICKNESSES OF 8 INCHES IN OPEN AREAS, AND IN MAXIMUM LOOSE LIFT THICKNESS OF 4 INCHES IN CONFINED AREAS. ALL FILL AND BACKFILL SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY PER ASTM D1557 "LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING MODIFIED EFFORT". HAND OPERATED COMPACTION EQUIPMENT SHALL BE UTILIZED WITHIN 4 FEET OF THE WALLS. EACH LIFT OF FILL SHALL BE TESTED FOR COMPACTION.
- FREE DRAINING CRUSHED AGGREGATE SHALL CONFORM TO THE FOLLOWING GRADATION:

SIZE	PERCENT FINER BY WEIGHT
1"	100
1/2"	30-100
1/4"	0-30
No. 4	0-10
No. 8	0-5

CONCRETE

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" ACI 318-14.
- CONCRETE REQUIREMENTS:

	FOOTINGS & WALLS	PADS/SLABS ON GRADE
COMPRESSIVE STRENGTH	4,000 PSI @ 28 DAYS	4,000 PSI @ 28 DAYS
CEMENT (ASTM C150)	TYPE I/II	TYPE I/II
COARSE AGGREGATE (ASTM C33)	#57 STONE	#67 STONE
FINE AGGREGATE	ASTM C33	ASTM C33
SLUMP (ASTM C143)	3"±1"	4"±1"
WATER CEMENT RATIO	0.52	0.52
ENTRAINED AIR	3.5% TO 6.5%	2%
CURING	PLASTIC SHEET	LIQUID MEMBRANE (ASTM C309, TYPE II, CLASS A)
- REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615, "DEFORMED AND PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064, "CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE".
- VAPOR BARRIER SHALL BE MINIMUM 15 MIL POLYETHYLENE SHEET.
- JOINT FILLER SHALL BE BITUMINOUS EXPANSION JOINT FILLER CONFORMING TO ASTM D1751, "PREFORMED EXPANSION JOINT FILLER FOR CONCRETE PAVING AND STRUCTURAL CONSTRUCTION (NONEXTRUDING AND RESILIENT BITUMINOUS TYPES)".
- JOINT SEALANT SHALL BE SINGLE COMPONENT, SELF-LEVELING, PREMIUM-GRADE POLYURETHANE SEALANT, TYPE SIKAFLEX-1C SL AS MANUFACTURED BY SIKA CORPORATION, OR ENGINEER APPROVED EQUAL. JOINT SEALANT SHALL BE COMPATIBLE WITH ADJACENT MATERIALS AND SHALL CONFORM TO ASTM C920, "ELASTOMERIC JOINT SEALANTS", TYPE S, GRADE P, CLASS 25, USE T.
- GROUT SHALL BE NON-METALLIC, NON-SHRINK PREPACKAGED GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS, REQUIRING ONLY THE ADDITION OF WATER. GROUT SHALL BE FIVE STAR GROUT AS MANUFACTURED BY FIVE STAR PRODUCTS, INC., SHELTON, CT, OR APPROVED EQUAL. GROUT SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- CONCRETE WORK AND MATERIALS SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301.
- SUBMIT CONCRETE MIX DESIGN TO THE ENGINEER FOR APPROVAL NOT LESS THAN 7 DAYS PRIOR TO CONSTRUCTION. MIX DESIGN SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE.
- CHLORIDE-CONTAINING ADMIXTURES SHALL NOT BE USED.
- CONCRETE COVER FOR REINFORCING SHALL BE 3 INCHES FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH. AT ALL OTHER CONCRETE SURFACES, MINIMUM COVER SHALL BE 2 INCHES FOR #6 AND LARGER BARS, AND 1 1/2 INCHES FOR #5 AND SMALLER BARS, UNLESS OTHERWISE NOTED. CONCRETE COVER FOR REINFORCEMENT NOT EXPOSED TO EARTH OR WEATHER SHALL BE 3/4 INCH FOR SLABS, WALLS, AND JOISTS, UNLESS OTHERWISE NOTED.
- LAP SPICES FOR REINFORCING SHALL BE MINIMUM 40 BAR DIAMETERS, UNLESS OTHERWISE NOTED. STANDARD HOOKS SHALL BE 16 BAR DIAMETERS. ALL OTHER REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
- WELDING OF REINFORCING STEEL OR THE APPLICATION OF HEAT TO FACILITATE BENDING IS PROHIBITED, EXCEPT WHERE SPECIFICALLY SHOWN OR NOTED.
- FORMS SHALL BE BUILT TRUE. THEY SHALL BE STRONG, RIGID, MORTAR-TIGHT, AND ADEQUATELY BRACED OR TIED. FORMS SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND ALL LOADS AND PRESSURES, INCLUDING THOSE IMPOSED BY PLASTIC CONCRETE TAKING FULL ACCOUNT OF THE STRESSES DUE TO THE RATE OF POUR, EFFECTIVE VIBRATION AND CONDITIONS BROUGHT ABOUT BY CONSTRUCTION METHODS.
- ALL REINFORCING, EMBEDDED STEEL ANCHOR BOLTS, INSERTS AND ALL OTHER EMBEDDED ITEMS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT. PROVIDE TEMPLATES FOR SETTING OF ANCHOR BOLTS.
- REMOVE ALL LOOSE MATERIAL AND DEBRIS FROM SUBGRADE SURFACE PRIOR TO PLACING CONCRETE. CONCRETE SHALL NOT BE PLACED ON FROZEN SUBGRADE.
- CONSTRUCTION AND SAWCUT CONTROL JOINTS SHALL BE INSTALLED AT LOCATIONS INDICATED. CONTRACTOR MAY PROVIDE ADDITIONAL CONSTRUCTION JOINTS AS REQUIRED AT OTHER LOCATIONS AS APPROVED BY THE ENGINEER.
- WHEN AMBIENT TEMPERATURE IS BELOW 50 DEGREES F. CONCRETE MATERIALS AND PLACEMENT SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 306R "COLD WEATHER CONCRETING".
- WHEN AMBIENT TEMPERATURE IS ABOVE 90 DEGREES F. CONCRETE MATERIALS AND PLACEMENT SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 305R "HOT WEATHER CONCRETING".
- CONCRETE SLUMP SHALL NOT EXCEED 5 INCHES UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINEER. SLUMP SHALL BE DETERMINED IN ACCORDANCE WITH ASTM C143 "SLUMP OF HYDRAULIC CEMENT CONCRETE".
- CONCRETE SHALL BE SUFFICIENTLY CONSOLIDATED BY VIBRATION TO REMOVE AIR Voids. VIBRATION SHALL BE IN ACCORDANCE WITH ACI 309 "STANDARD PRACTICE FOR CONSOLIDATION OF CONCRETE".
- THE TOP OF ALL CONCRETE SURFACES SHALL BE TRUE AND LEVEL WITH A SMOOTH FLOAT FINISH, UNLESS OTHERWISE NOTED. PADS AND WALKWAYS SHALL RECEIVE A BROOM FINISH. ALL DIMENSIONS SHALL BE WITHIN A MINIMUM OF ±1/8 INCH. TOLERANCES OF ALL DIMENSIONS OF CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 318, UNLESS OTHERWISE NOTED.
- PROVIDE A 3/4" CHAMFER AT ALL EXPOSED EDGES OF CONCRETE, UNLESS OTHERWISE NOTED.
- DRYING OUT OF CONCRETE, ESPECIALLY DURING THE FIRST 24 HOURS, SHALL BE CAREFULLY GUARDED AGAINST. ALL SURFACES SHALL BE MOIST CURED.
- DO NOT REMOVE FORMS, SHORES AND BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT, CONSTRUCTION LOADS, AND DESIGN LOADS WHICH ARE LIABLE TO BE IMPOSED UPON IT. VERIFY STRENGTH OF CONCRETE BY COMPRESSIVE TEST RESULTS.
- THROUGHOUT CONSTRUCTION, THE CONCRETE WORK SHALL BE ADEQUATELY PROTECTED AGAINST DAMAGE DUE TO EXCESSIVE LOADING, CONSTRUCTION EQUIPMENT, MATERIALS OR METHODS, ICE, RAIN, SNOW, EXCESSIVE HEAT AND FREEZING.
- CONTRACTOR SHALL BRING TO THE IMMEDIATE ATTENTION OF THE OWNER'S FIELD REPRESENTATIVE ANY DEFECTS OR ERRORS IN THE WORK, PRIOR TO MAKING REPAIRS. CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER'S FIELD REPRESENTATIVE TO PATCH OR OTHERWISE REPAIR DEFECTS OTHER THAN MINOR HONEYCOMBING.
- WHEN DRILLING INTO EXISTING CONCRETE, EXERCISE CAUTION TO AVOID DAMAGE TO EXISTING REINFORCING BARS.
- PROVIDE 72 HOURS NOTICE TO THE ENGINEER AND SPECIAL INSPECTOR PRIOR TO EACH PLACEMENT OF CONCRETE.
- CONCRETE TESTING AND SAMPLING SHALL BE PERFORMED UNDER THE DIRECTION OF THE OWNER'S FIELD REPRESENTATIVE.

STRUCTURAL STEEL NOTES

- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", LATEST EDITION.
- STRUCTURAL STEEL WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A992, "STEEL FOR STRUCTURAL SHAPES FOR USE IN BUILDING FRAMING", GRADE 50, UNLESS OTHERWISE INDICATED. IF THE MEMBER SIZES INDICATED ARE NOT AVAILABLE IN THIS GRADE, ASTM A572 "HIGH-STRENGTH LOW-ALLOY COLUMN-BEAM VANADIUM STRUCTURAL STEEL", GRADE 50, MAY BE SUBSTITUTED.
- HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES", GRADE C. SUBSTITUTION WITH ASTM A53 PIPE IS NOT ACCEPTABLE.
- FIELD WELDING IS NOT PERMITTED, UNLESS SPECIFICALLY INDICATED OTHERWISE ON THESE DRAWINGS.
- ALL FILLET WELDS SHALL BE MADE USING THE SHIELDED METAL ARC WELDING (SMAW) PROCESS WITH E70XX ELECTRODES UNLESS OTHERWISE NOTED.
- MISCELLANEOUS STEEL, INCLUDING THREADED RODS, CHANNELS, ANGLES, PLATES, AND BARS SHALL CONFORM TO ASTM A36 "CARBON STRUCTURAL STEEL", UNLESS OTHERWISE INDICATED.
- U-BOLTS SHALL CONFORM TO ASTM A36 OR A307 "CARBON STEEL BOLTS, STUDS, AND THREADED ROD 60000 PSI TENSILE STRENGTH", ALL U-BOLTS SHALL BE 1/2" DIAMETER IN 9/16" HOLES, UNLESS OTHERWISE NOTED. INSTALL DOUBLE NUTS ON ALL CONNECTIONS.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 "ANCHOR BOLTS, STEEL, 36, 55, AND 105-KSI YIELD STRENGTH", GRADE 36.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 "STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH". BOLTS SHALL BE 3/4 INCH DIAMETER, TYPE X, UNLESS OTHERWISE NOTED.
- MATCHING NUTS SHALL BE HEAVY HEX TYPE, CONFORMING TO ASTM A563 "CARBON AND ALLOY STEEL NUTS". WASHERS, WHERE REQUIRED, SHALL CONFORM TO ASTM F436 "HARDENED STEEL WASHERS".
- FIELD CONNECTIONS SHALL BE BOLTED UNLESS OTHERWISE INDICATED. ALL BOLTED CONNECTIONS SHALL BE MADE WITH NOT LESS THAN TWO (2) HIGH STRENGTH BOLTS, OR EQUIVALENT WELD.
- ALL STEEL SUPPORTS SHALL BE INSTALLED WITH DOUBLE NUTS AND SHALL BE INSTALLED SNUG TIGHT.
- STRUCTURAL CONNECTIONS SHALL BE SNUG TIGHT IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", UNLESS OTHERWISE NOTED.
- BOLTS IN SLIP-CRITICAL CONNECTIONS SHALL BE FULLY PRETENSIONED BY THE TURN-OF-NUT METHOD IN ACCORDANCE WITH THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
- ANCHOR BOLTS SHALL BE TENSIONED BY THE TURN-OF-NUT METHOD AFTER GROUTING OF BASE PLATES.
- ALL HOLES FOR BOLTS SHALL BE 1/16 INCH LARGER THAN THE BOLT DIAMETER WITH AN EDGE DISTANCE OF AT LEAST 1 1/2 TIMES THE BOLT DIAMETER AND A SPACING OF AT LEAST 3 TIMES THE BOLT DIAMETER. ALL BOLTS SHALL BE PROVIDED WITH PALNUTS OR LOCK NUTS.
- CONTRACTOR SHALL COMPLY WITH AWS D1.1 "STRUCTURAL WELDING CODE - STEEL" FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES".
- EXPANSION ANCHORS SHALL BE HILTI KWIK BOLT T22 OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE 4-3/4" UNLESS OTHERWISE NOTED.
- ADHESIVE ANCHOR ASSEMBLIES SHALL BE AS MANUFACTURED BY HILTI OR ENGINEER APPROVED EQUAL, AS FOLLOWS:

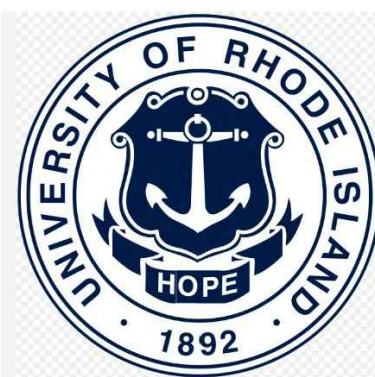
BASE MATERIAL	ANCHOR SYSTEM
HOLLOW CMU OR BRICK	HIT HY-270
CONCRETE	HIT HY-200

 INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- HAMMER DRILLS ARE NOT TO BE USED WHEN DRILLING HOLES FOR SLEEVE OR EXPANSION BOLTS INSTALLED IN MASONRY BLOCKS/BRICKS.
- ALL INTERIOR STRUCTURAL STEEL SHALL BE SHOP PRIME COATED WITH A RUST-INHIBITIVE PRIMER EXCEPT AREAS TO BE FIREPROOFED NEED NOT BE PAINTED. SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURER'S RECOMMENDATIONS. AREAS WHICH MAY BE INACCESSIBLE AFTER INSTALLATION SHALL RECEIVE TWO (2) COATS OF PRIMER. FINISH PAINT AS DIRECTED BY OWNER.
- FIELD CONNECTIONS AND DAMAGED OR ABRADED AREAS OF SHOP PRIME COAT SHALL BE TOUCH-UP PAINTED WITH COMPATIBLE FIELD PRIMER.
- ALL EXTERIOR STEEL SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL EXTERIOR BOLTS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY COLD GALVANIZING IN ACCORDANCE WITH ASTM A780 "REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS", USING GALVANIZING COMPOUND AS MANUFACTURED BY ZINGA-USA OR ZINC KOTE, OR ENGINEER APPROVED EQUAL, WITH A MINIMUM METALLIC ZINC CONTENT OF 95% BY WEIGHT IN DRY FILM. DRY FINISHED COATING THICKNESS SHALL BE 3 MILS MINIMUM. DAMAGED AREAS OF STEEL SHALL BE REPAINTED TO MATCH ANY EXISTING FINISH (IF APPLICABLE).
- STEEL WORK SHALL BE SUBJECT TO SPECIAL INSPECTIONS DURING CONSTRUCTION AS REQUIRED BY THE CODE.
- CONTRACTOR TO REMOVE MASTIC ON THE EXISTING WALL/PARAPET AT EVERY STEEL SUPPORT ATTACHMENT AND REPOINT MASONRY AS REQUIRED. A BED OF SILICONE SHALL BE APPLIED ALL AROUND THE STEEL SUPPORT ATTACHMENT TO MAKE IT WEATHERPROOF.
- ALL HOLES TO BE ADDED IN THE FIELD SHALL BE PUNCHED OR DRILLED. NO HOLE BURNING SHALL BE ALLOWED. REPAIR GALVANIZING IN ACCORDANCE WITH ASTM A780.
- THE NOTES CONTAINED HEREIN ARE NOT PROJECT SPECIFIC. THE CONTRACTOR SHALL UTILIZE ALL NOTES WHICH SOLELY PERTAIN TO THE WORK DEPICTED ON THESE DRAWINGS.

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PLANS ARE NOT TO BE SEALED.



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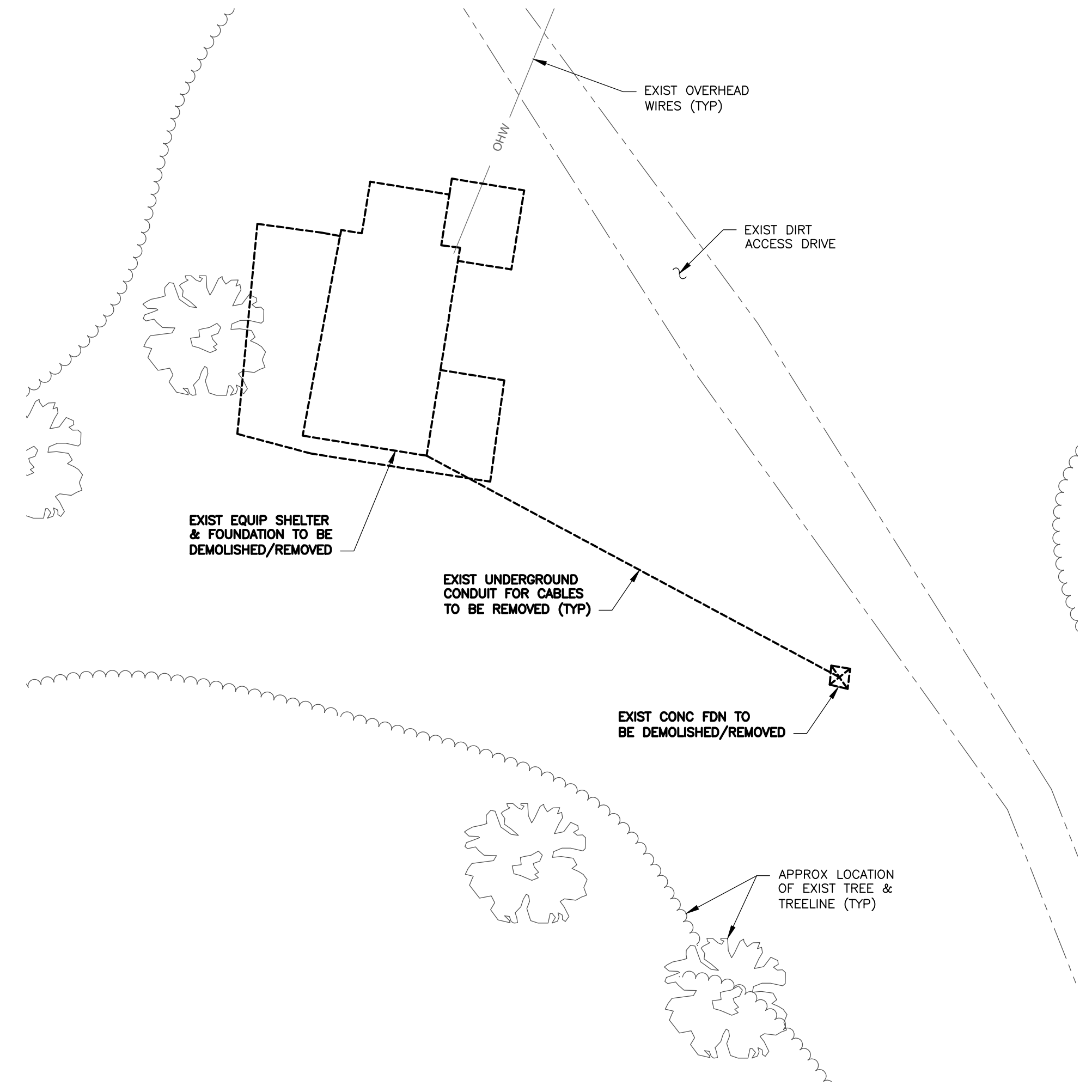
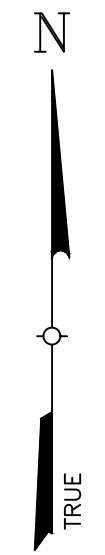
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2	6/18/2024	REISSUED FOR PERMIT		<input type="radio"/> For Comment <input type="radio"/> For Approval <input checked="" type="radio"/> For Permit <input type="radio"/> For Construction			
3	8/26/2024	REISSUED FOR PERMIT			EI	8/26/2024	

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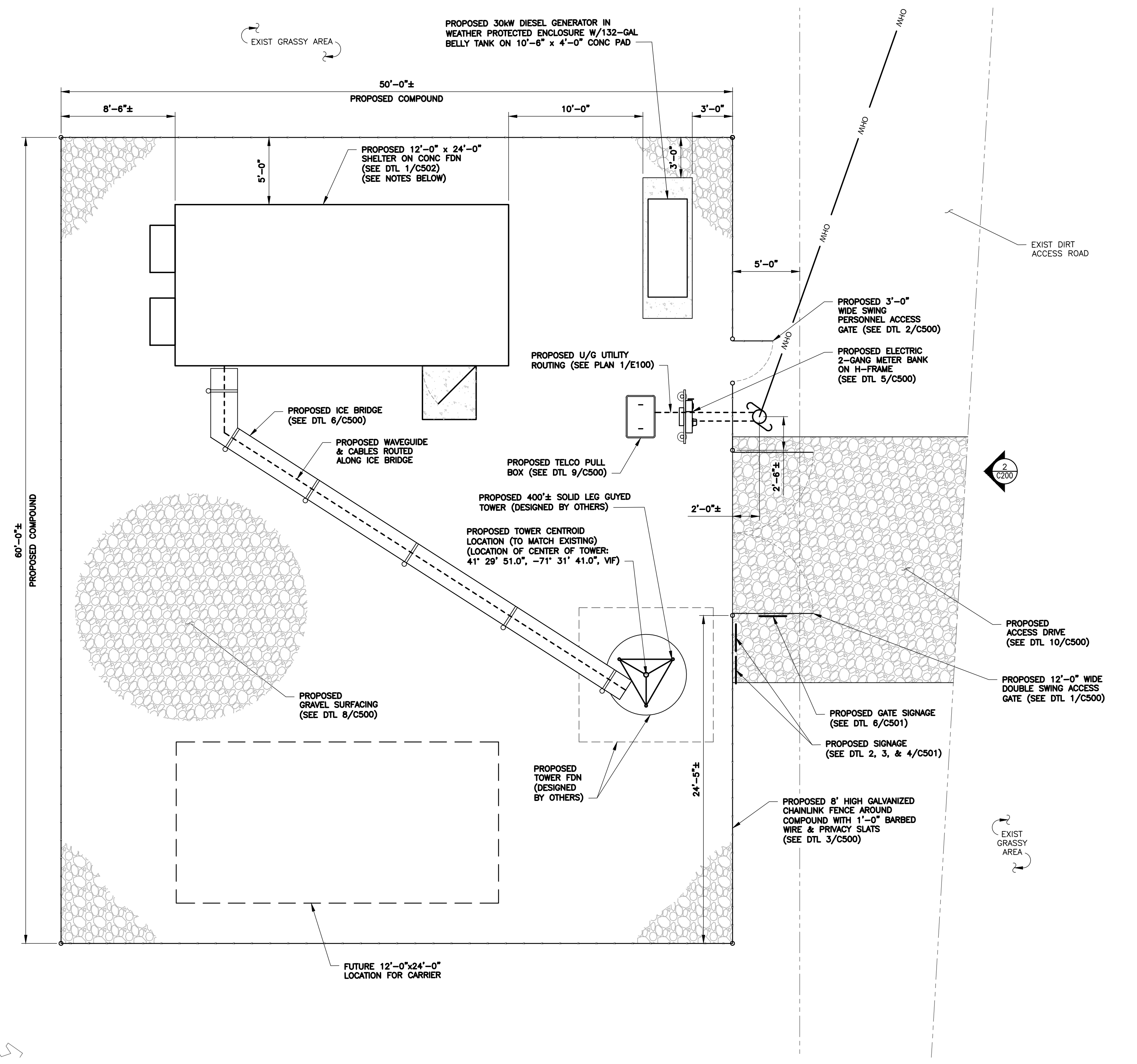
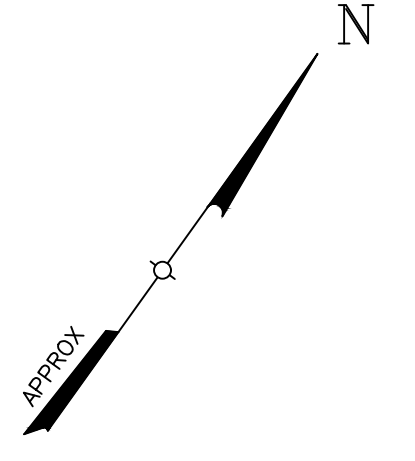
EDWARD JAMICELI
 No. 0011767
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

FOUNDATION NOTES, LEGEND & ABBREVIATIONS

PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No: T003	Rev: 3
Scale: AS NOTED			



1 SITE/DEMOLITION PLAN
 C101 SCALE: 1" = 20'



- NOTES:
- EXISTING EQUIPMENT SHELTER SHALL BE DEMOLISHED AND REMOVED.
 - NEW EQUIPMENT SHELTER SHALL BE PURCHASED AND COMPLY WITH NFPA STANDARDS.
 - TREE CLEARING:
 - CONTRACTOR TO PERFORM TREE SURVEY WITHIN 50' OF ANTENNA/TOWER STRUCTURE INCLUDING CUTS.
 - ANY TREE 50' OR GREATER SHALL BE CUT DOWN.

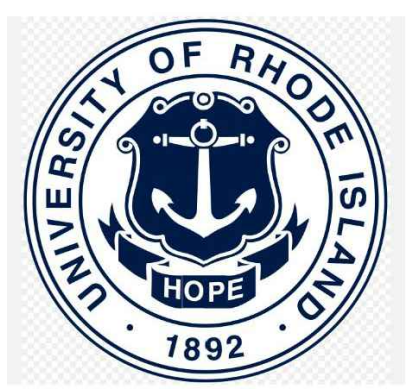
2 ENLARGED SITE PLAN
 C101 SCALE: 1" = 5'

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PLANS ARE NOT TO BE SCALED.

ORIGINAL SIZE IN INCHES



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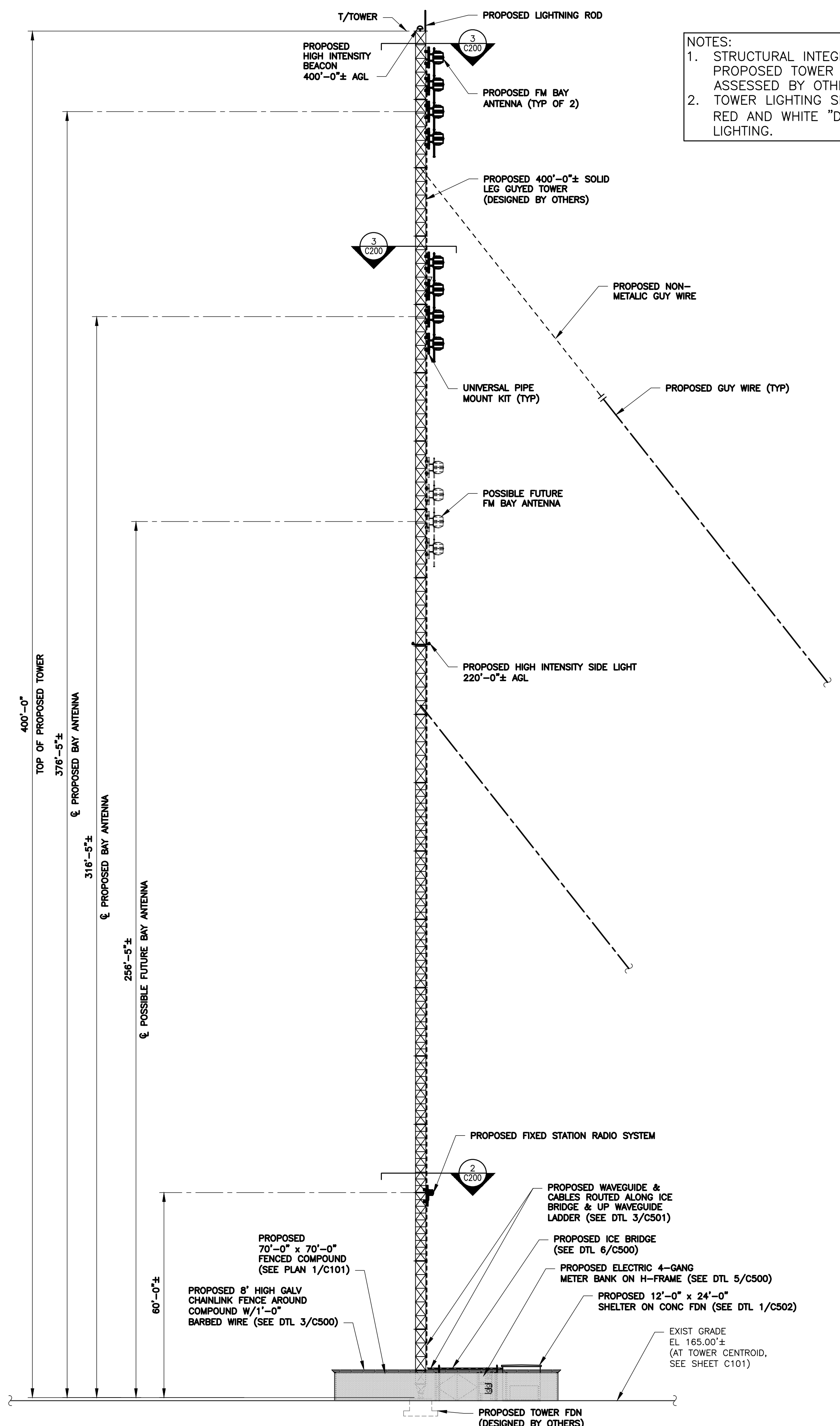
Rev	Date	Revision	Approved
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1	6/7/2024	ISSUED FOR PERMIT	
2	6/18/2024	REISSUED FOR PERMIT	
3	8/26/2024	REISSUED FOR PERMIT	

DRAWING CONTROL			
Designed by:	Drawn by:	Checked by:	Released by:
MB	VM	EI	
Purpose:			
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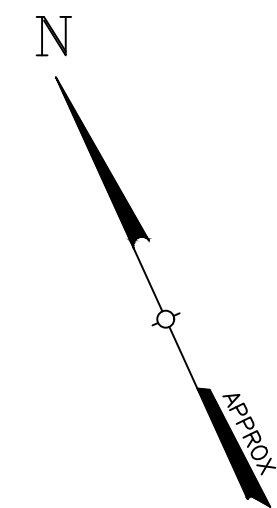
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EDWARD IAMICELI
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 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SITE DEMOLITION PLAN & ENLARGED SITE PLAN			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No. C101	Rev. 3
Scale: AS NOTED			

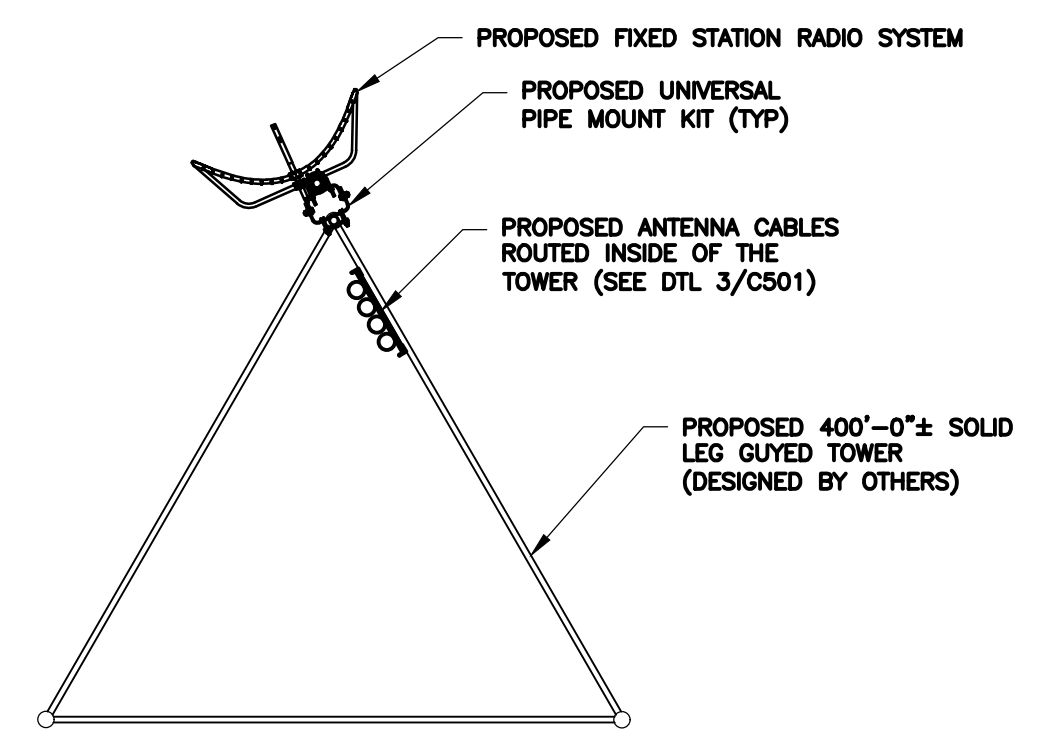


NOTES:
 1. STRUCTURAL INTEGRITY OF PROPOSED TOWER SHALL BE ASSESSED BY OTHERS.
 2. TOWER LIGHTING SHALL BE RED AND WHITE "DUAL MODE" LIGHTING.

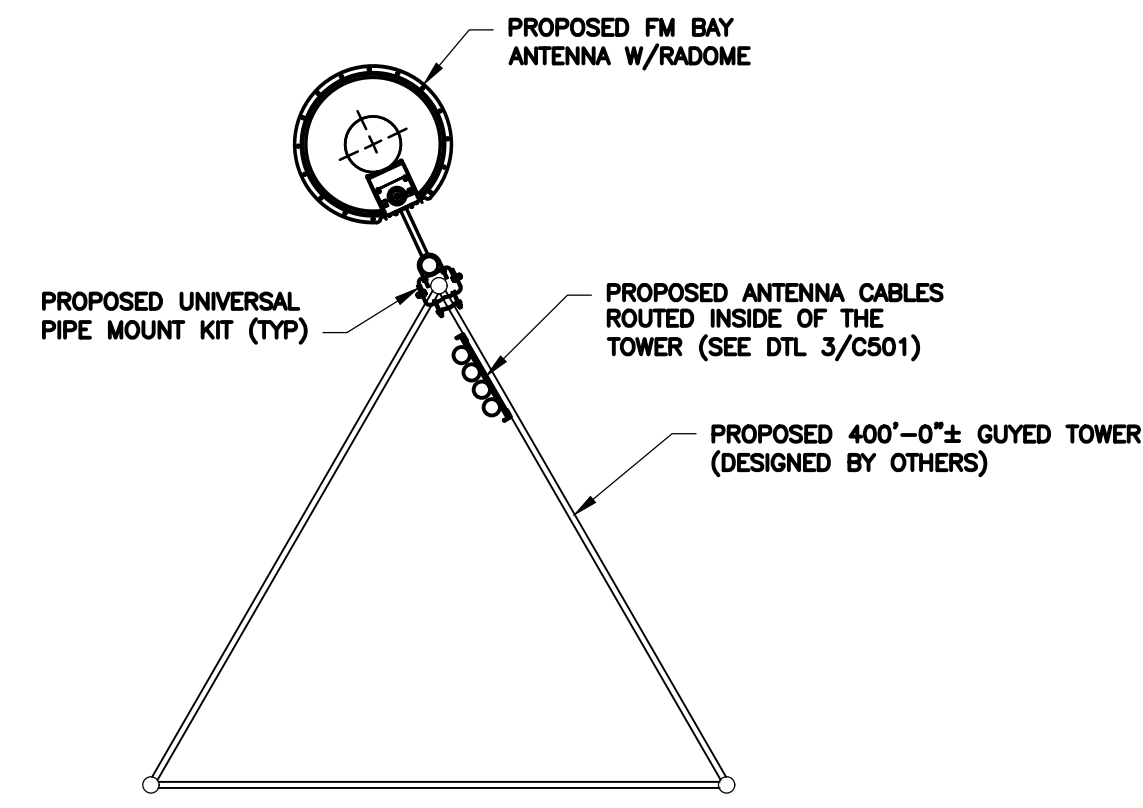


PROPOSED ANTENNA/CABLE CONFIGURATION SCHEDULE						
MOUNT LEVEL (FT)	ELEVATION (FT)(±)	NUMBER OF ANTENNAS	ANTENNA TYPE	ANTENNA TYPE	NUMBER OF FEED LINES	FEED LINE TYPE
376'-5"±	376'-5"±	1	FM ANTENNA W/RADOME	4 BAY - 6810	1	1-5/8" FEEDLINE
316'-5"±	316'-5"±	1	FM ANTENNA W/RADOME	4 BAY - 6810	1	1-5/8" FEEDLINE
256'-5"±	256'-5"±	1	POSSIBLE FUTURE FM ANTENNA W/RADOME	4 BAY - 6810	1	1-5/8" FEEDLINE
57'-0"	60'-0"	1	FIXED STATION RADIO SYSTEM	MF-900B 950	1	1/2" FEEDLINE

NOTES:
 1. FINAL ANTENNA AND LINE CONFIGURATION TO BE APPROVED BY URI.
 2. SEE SPECIFICATIONS FOR ANTENNA TYPE AND INFORMATION.



2 FIXED STATION RADIO SYSTEM @ 60'-0" LEVEL
 SCALE: NTS



3 FM BAY ANTENNA PLAN (TYP)
 SCALE: NTS

1 TOWER ELEVATION
 SCALE: 3/64" = 1'-0"

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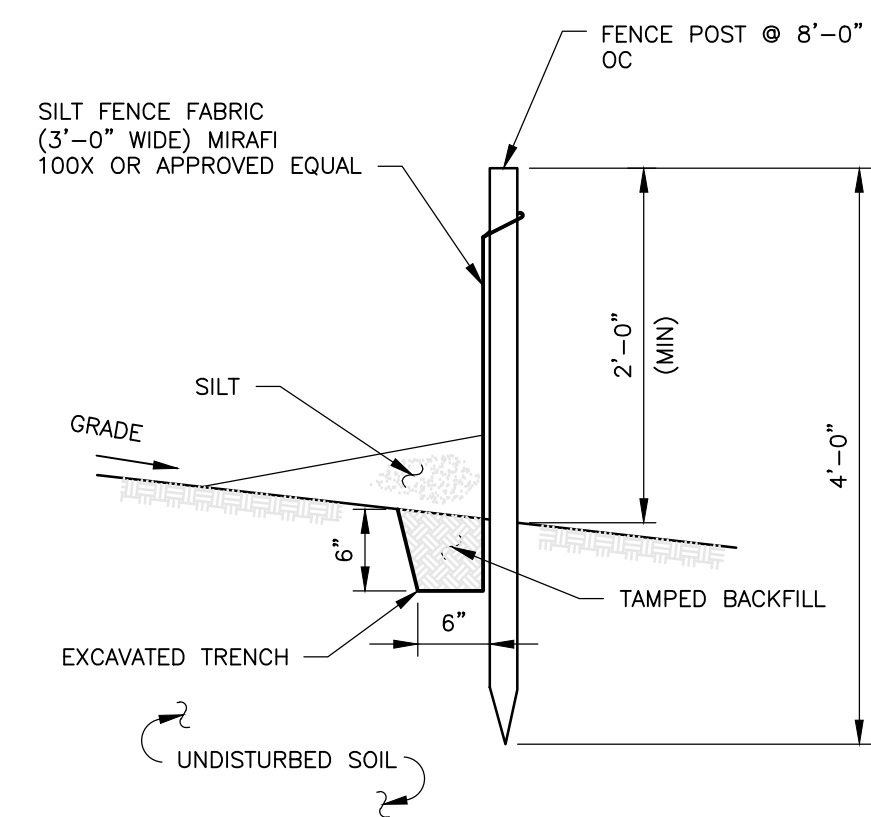
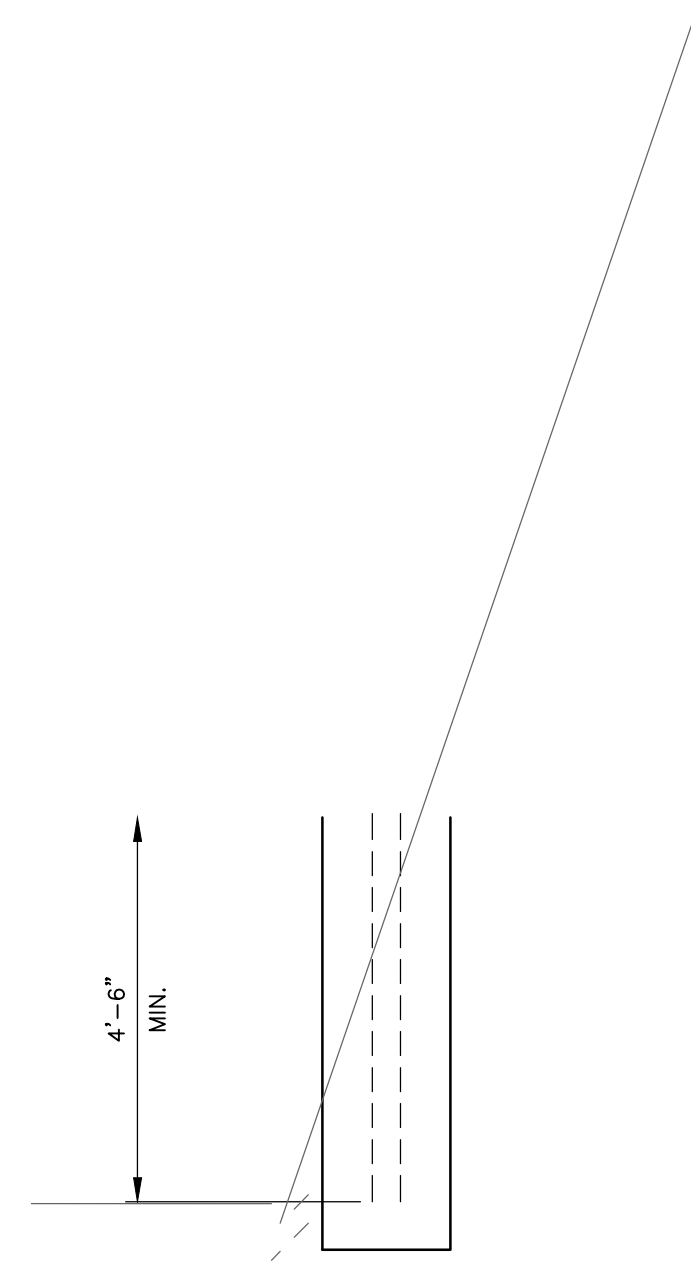
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MB	VM	EI	
Purpose:			
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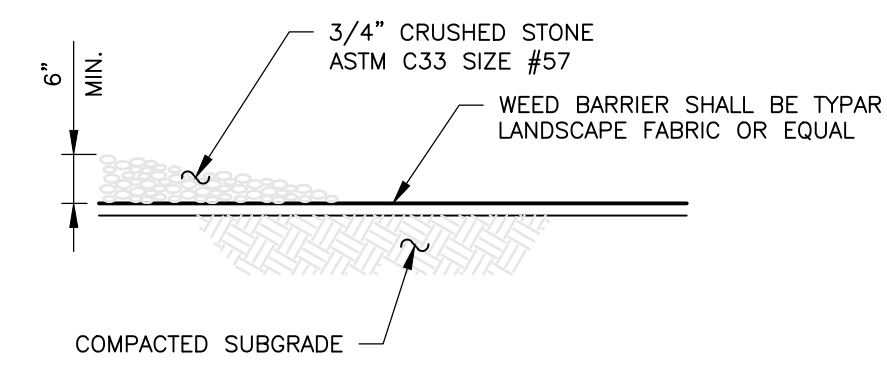
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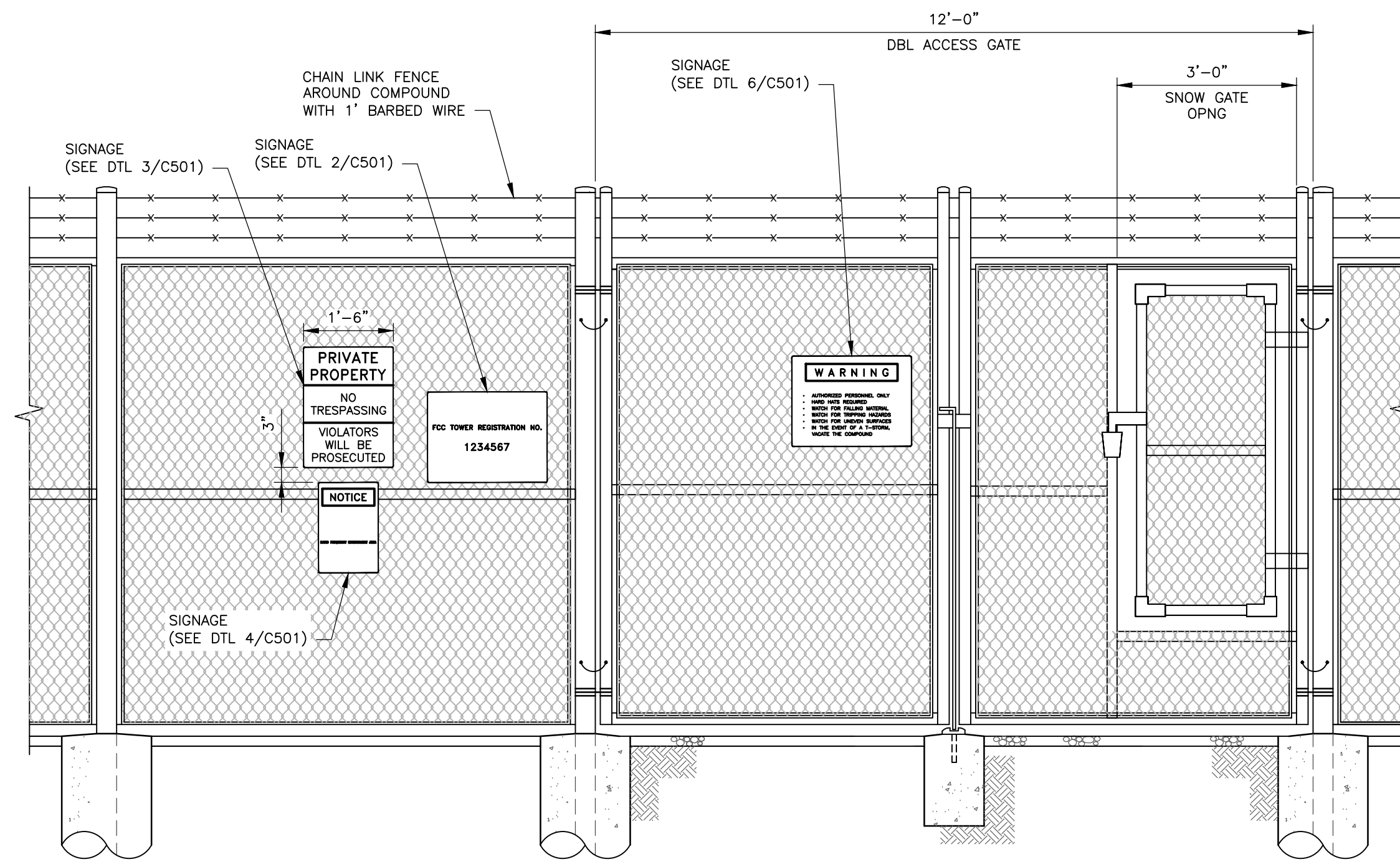
EDWARD IAMICELI
 No. 0011767
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

TOWER ELEVATION & OMNI ANTENNA PLANS			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No.: C200	Rev: 3
Scale: AS NOTED			

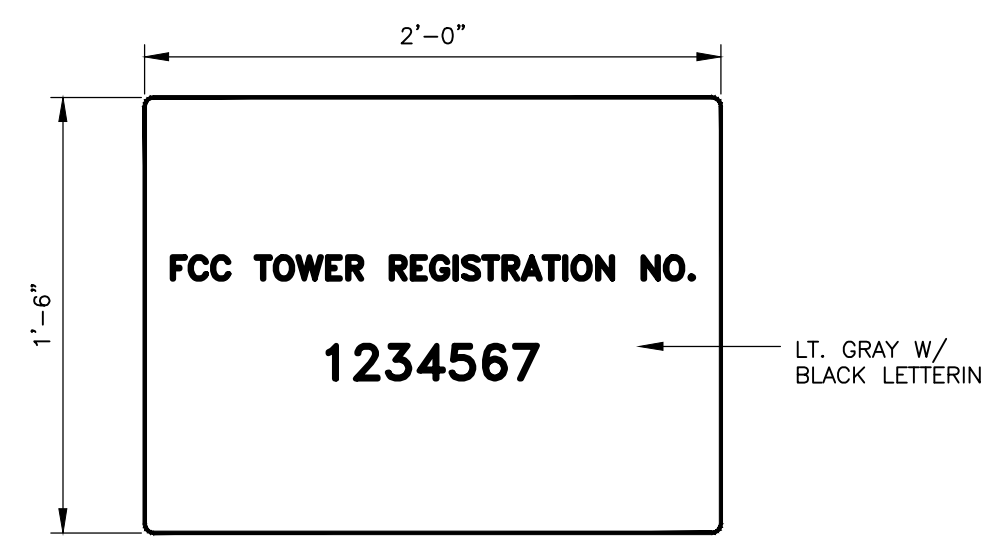


NOTE: SILT FENCE TO BE MAINTAINED IN PLACE DURING CONSTRUCTION PERIOD. REMOVE UPON COMPLETION OF CONSTRUCTION.

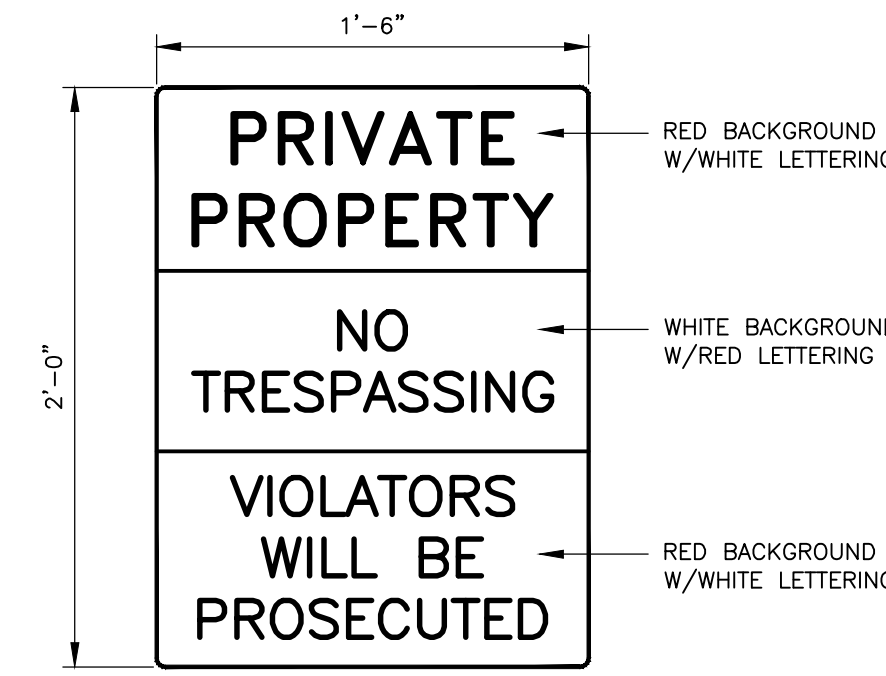




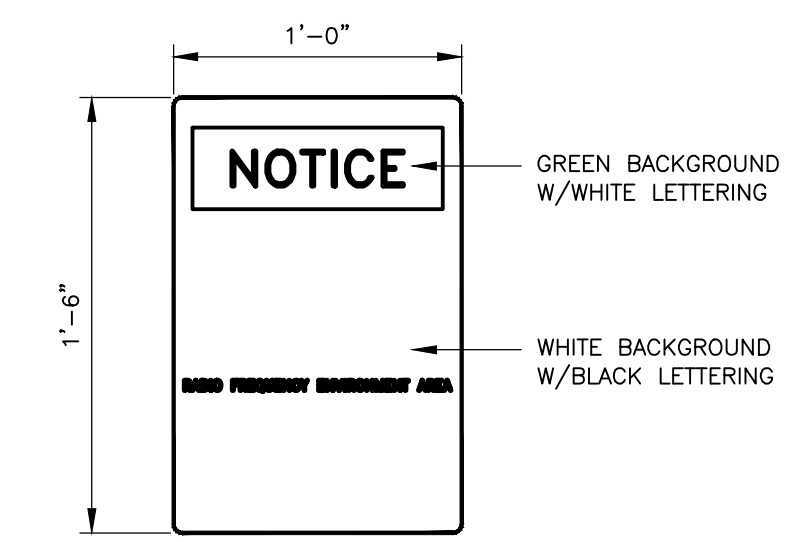
1 SIGNAGE ELEVATION
SCALE: NTS



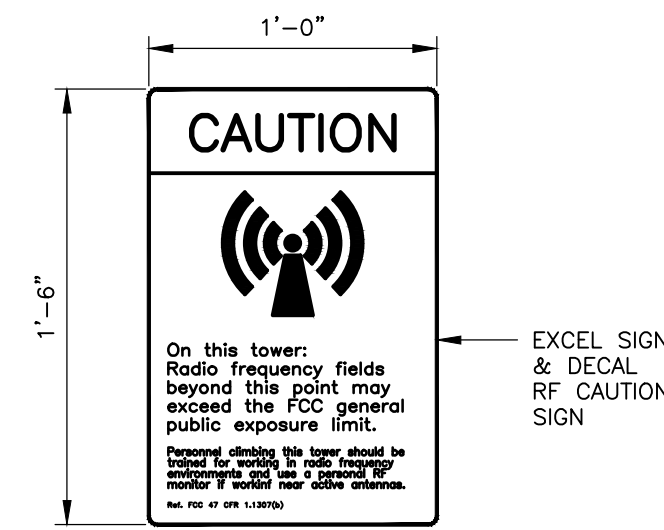
2 FCC REGISTRATION SIGN
SCALE: NTS



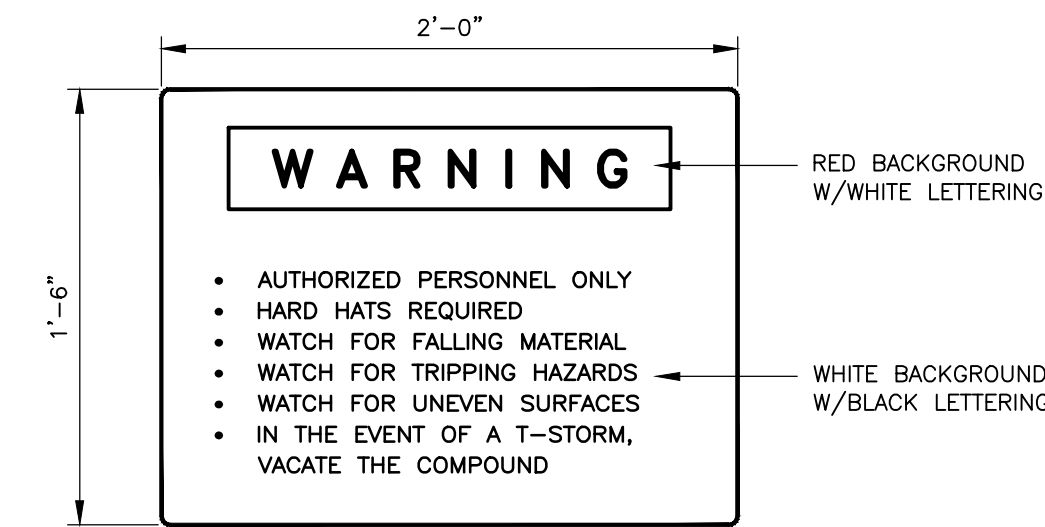
3 NO TRESPASSING SIGN
SCALE: NTS



4 NOTICE-RFE SIGN
SCALE: NTS

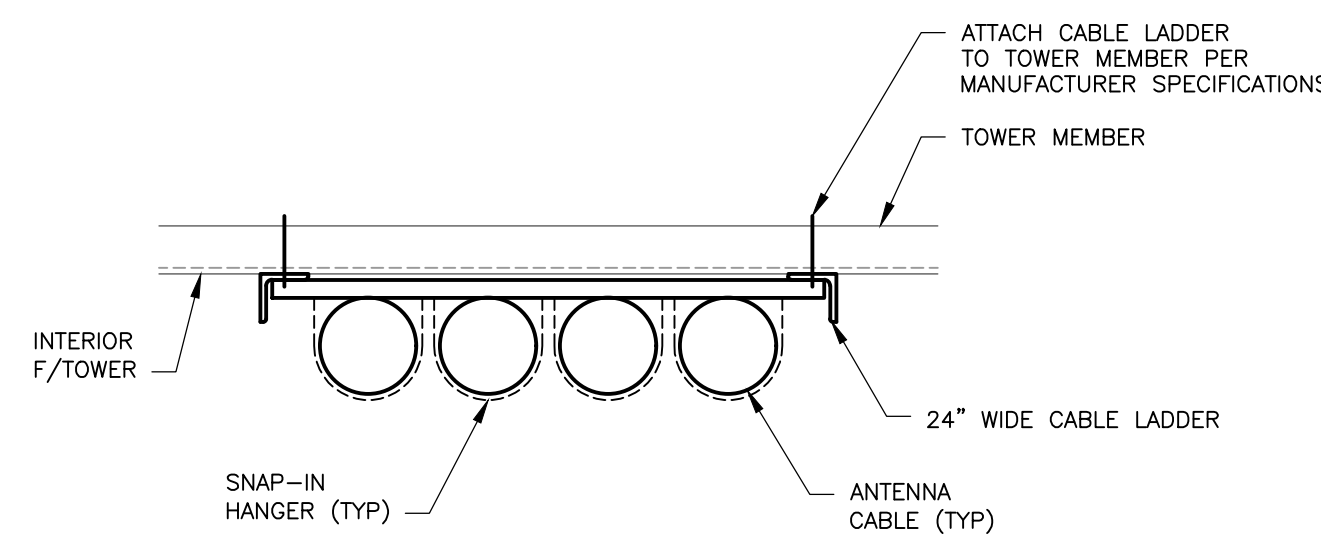


5 RF CAUTION SIGN
SCALE: NTS

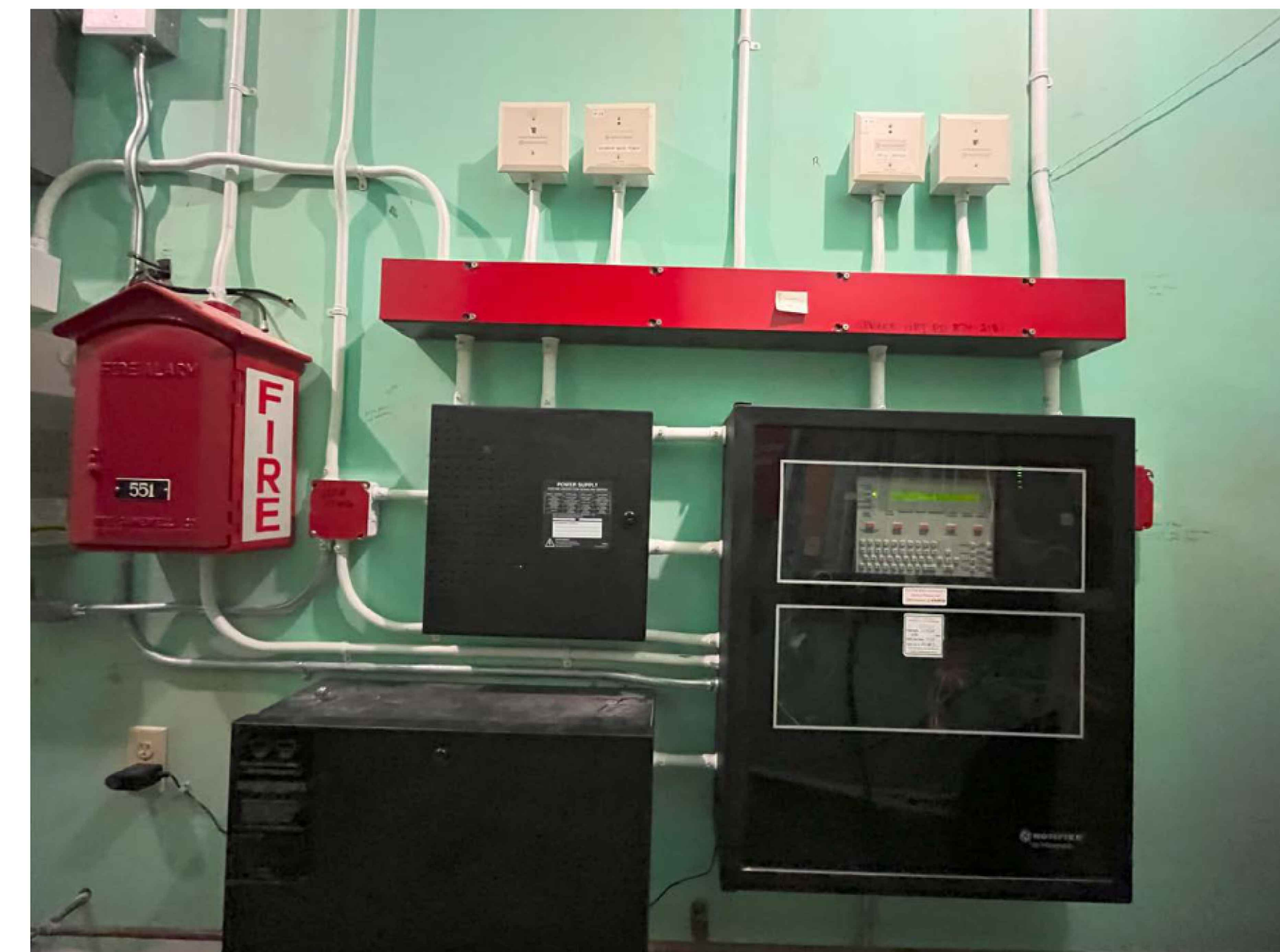
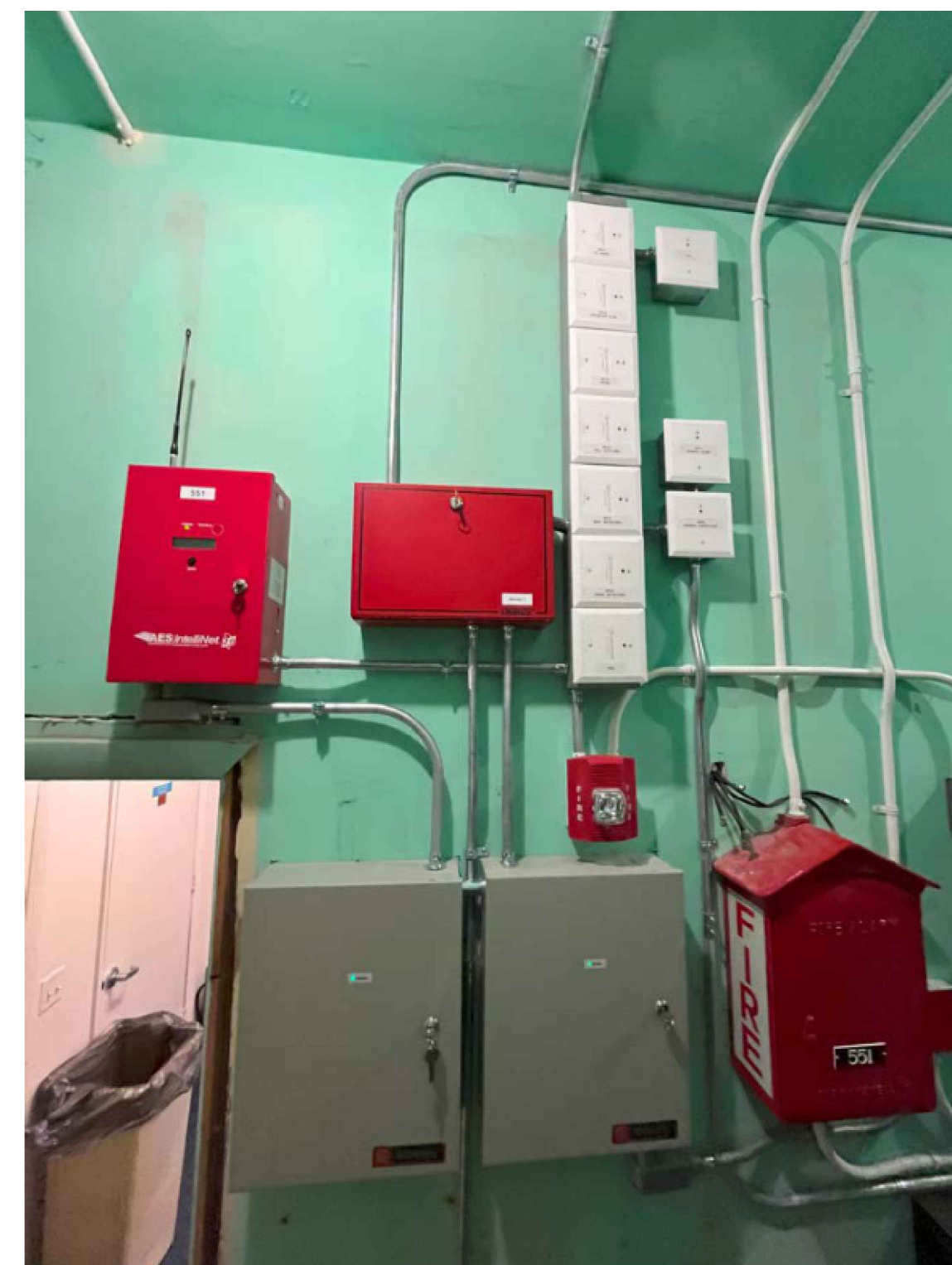


6 CAUTION-HARD HAT CONSTRUCTION AREA AND TRIPPING HAZARDS
SCALE: NTS

- NOTES:
1. INSTALL SIGN AT EACH TOWER CLIMBING LADDER ACCESS.
 2. SECURE SIGN TO TOWER USING METAL BANDS, ADHESIVE OR SPECIALLY FABRICATED MOUNTING FRAMES.
 3. UNDER NO CIRCUMSTANCES ARE HOLES TO BE DRILLED IN, OR BRACKETS WELDED TO, THE TOWER STRUCTURE UNLESS SPECIFICALLY INSTRUCTED OTHERWISE.



7 CABLE LADDER DETAIL
SCALE: NTS



8 ALARM REPORTING SYSTEM SAMPLE ELEVATION
SCALE: NTS

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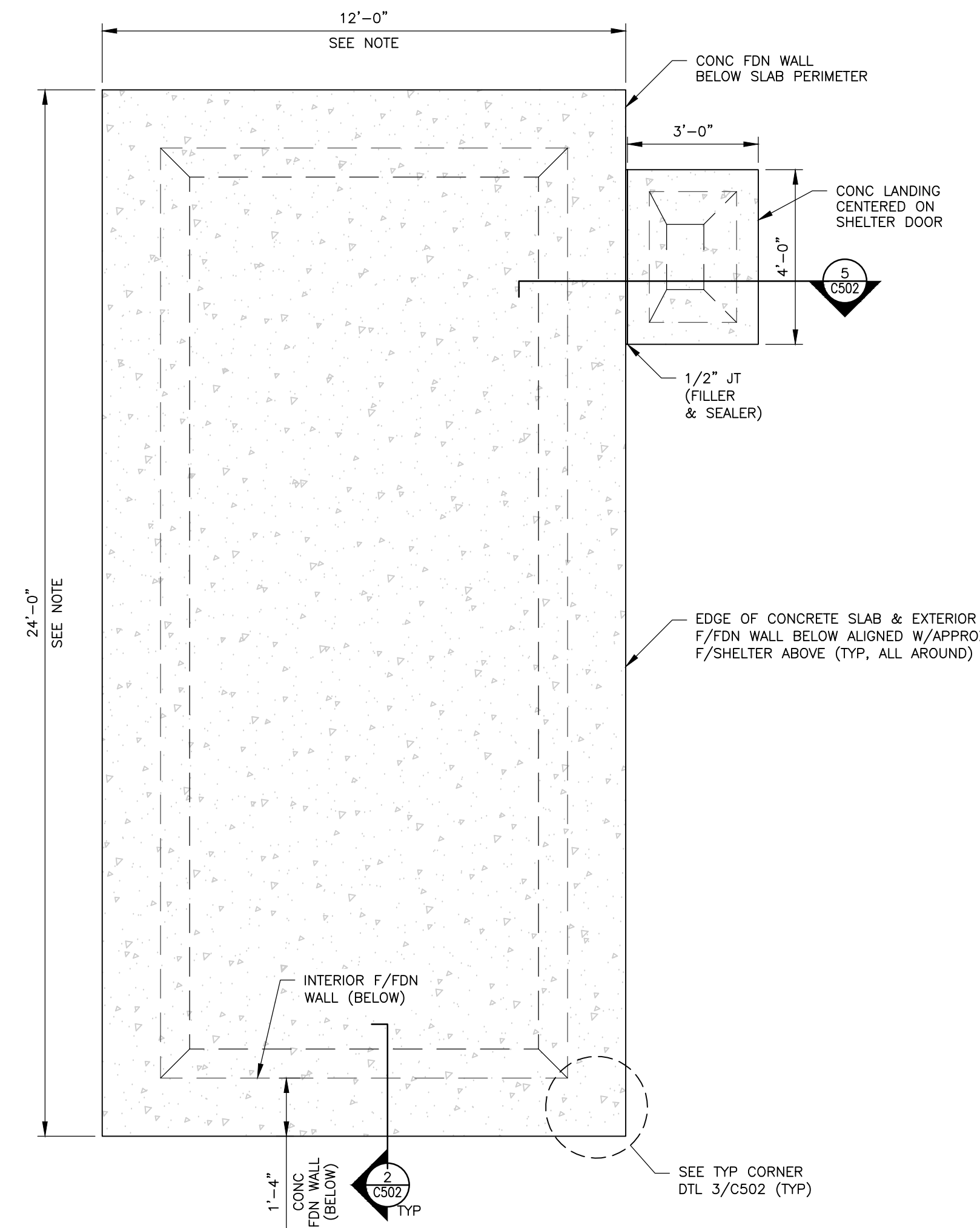
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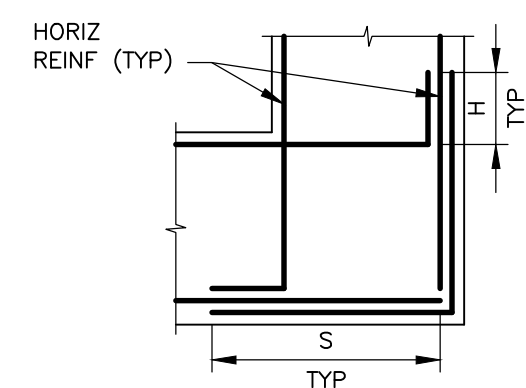
EDWARD IAMICELI
No. 0011767
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

SIGNAGE ELEVATION & DETAILS			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No.: C501	Rev: 3
Scale: AS NOTED			



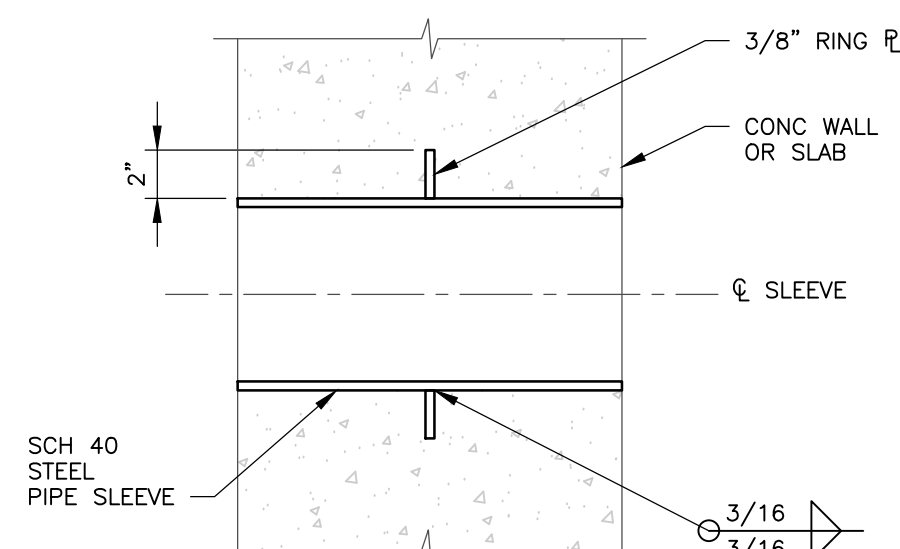
- NOTES:**
- PRIOR TO CONSTRUCTION AND FABRICATION OF THE FOUNDATION SYSTEM, CONTRACTOR SHALL COORDINATE FINAL SHELTER DIMENSIONS, ANCHOR LAYOUTS/LOCATIONS, AND FOUNDATION RECOMMENDATIONS WITH THE SHELTER MANUFACTURER.
 - SHELTER CONNECTION TO PROPOSED FOUNDATION SYSTEM SHALL BE COORDINATED WITH AND APPROVED BY SHELTER MANUFACTURER. MAINTAIN A MINIMUM OF 6" FROM ANCHORS TO EDGE OF SLAB. MANUFACTURER SHALL CONTACT ENGINEER OF RECORD IF ANCHOR SYSTEM CANNOT COMPLY WITH PROPOSED FOUNDATION SYSTEM. FOUNDATION DIMENSIONS TO BE ADJUSTED TO MATCH SHELTER SPECS.

1 EQUIPMENT SHELTER FDN PLAN
SCALE: 3/8" = 1'-0"



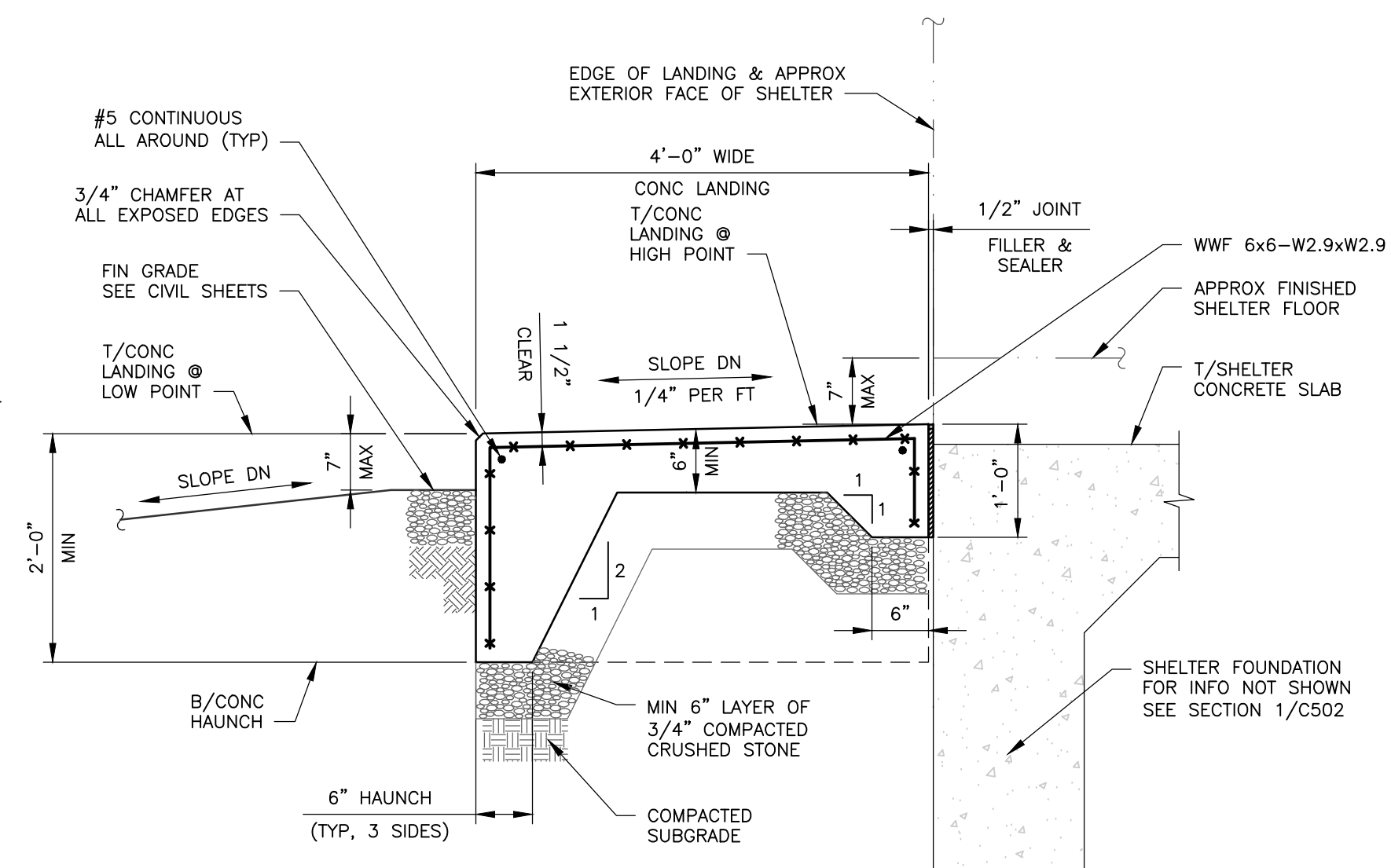
NOTE: SEE TABLE FOR STANDARD REBAR HOOK AND SPLICE DIMENSIONS.

3 TYP FDN WALL CORNER DETAIL
SCALE: 3/4" = 1'-0"

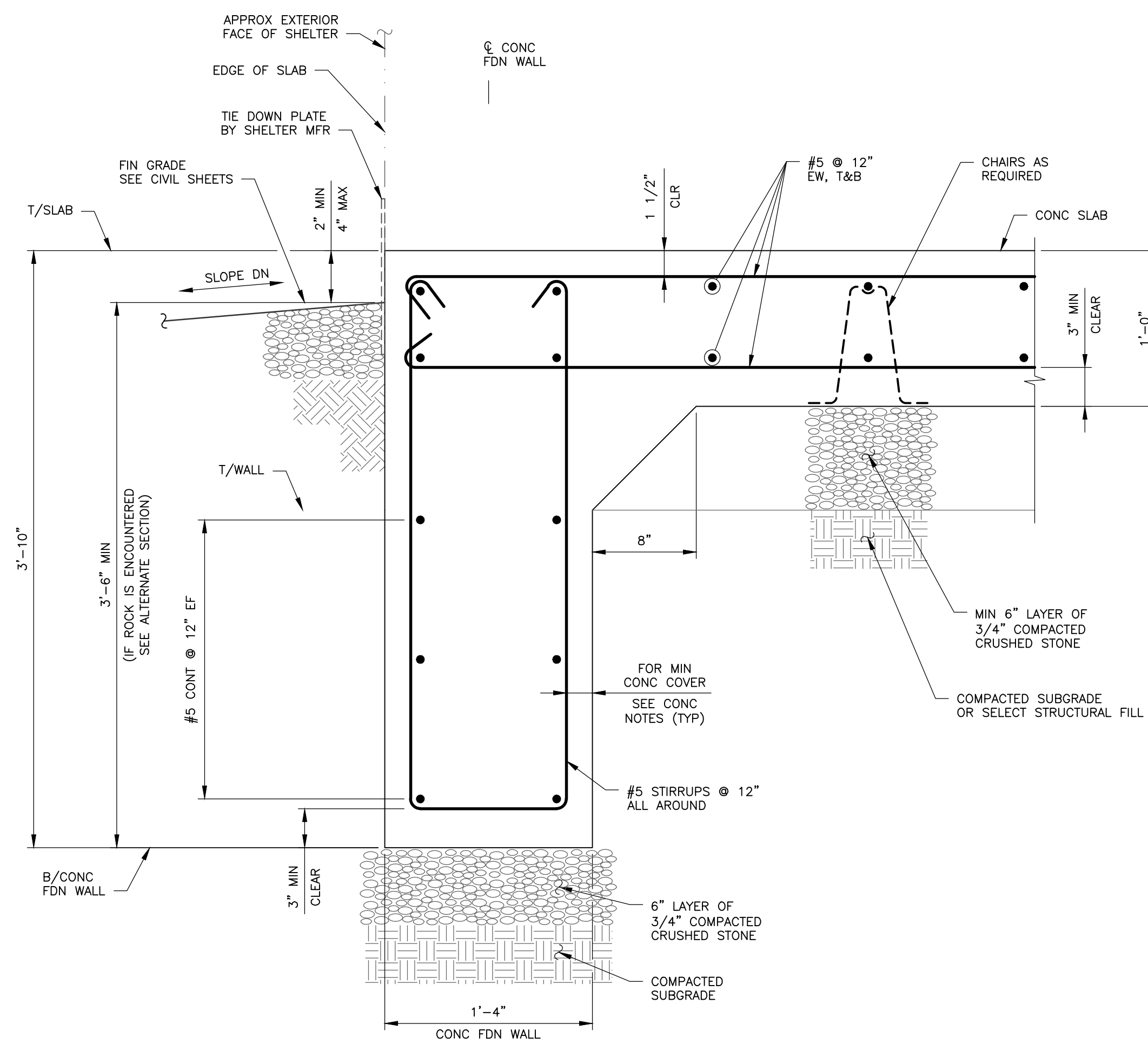


NOTE: PIPE SLEEVE SHALL BE PLACED IN BETWEEN REBAR. DO NOT INTERRUPT, CUT, OR ALTER REBAR IN ANY WAY.

4 TYP CONDUIT SLEEVE DETAIL
SCALE: 1 1/2" = 1'-0"

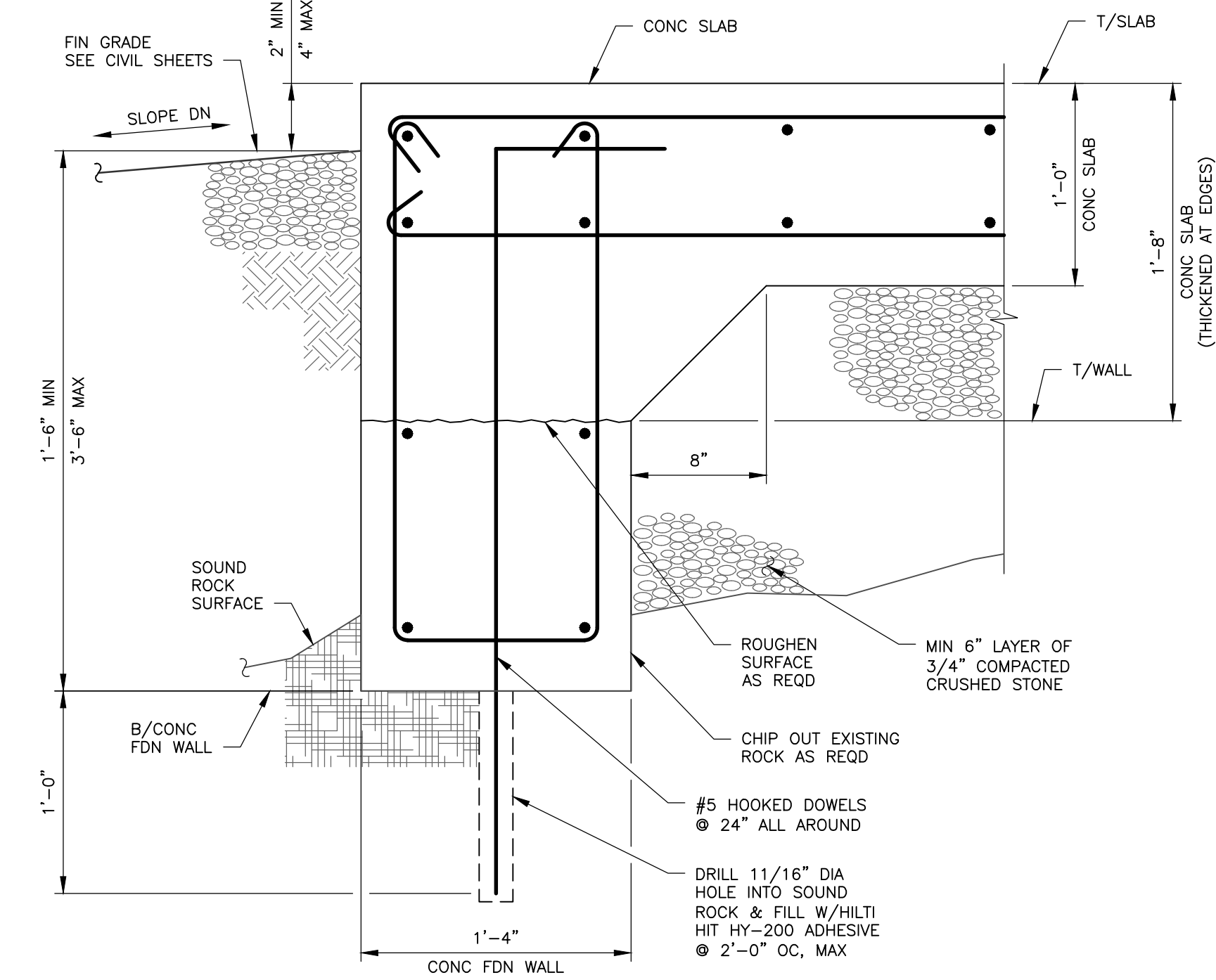


5 CONC LANDING SECTION
SCALE: 3/4" = 1'-0"



ON SUBGRADE

2 TYPICAL SHELTER FOUNDATION SECTIONS
SCALE: 1 1/2" = 1'-0"



NOTE: FOR INFO NOT SHOWN, SEE SECTION FOR FOUNDATION ON SUBGRADE.

ALTERNATE (INTO ROCK)

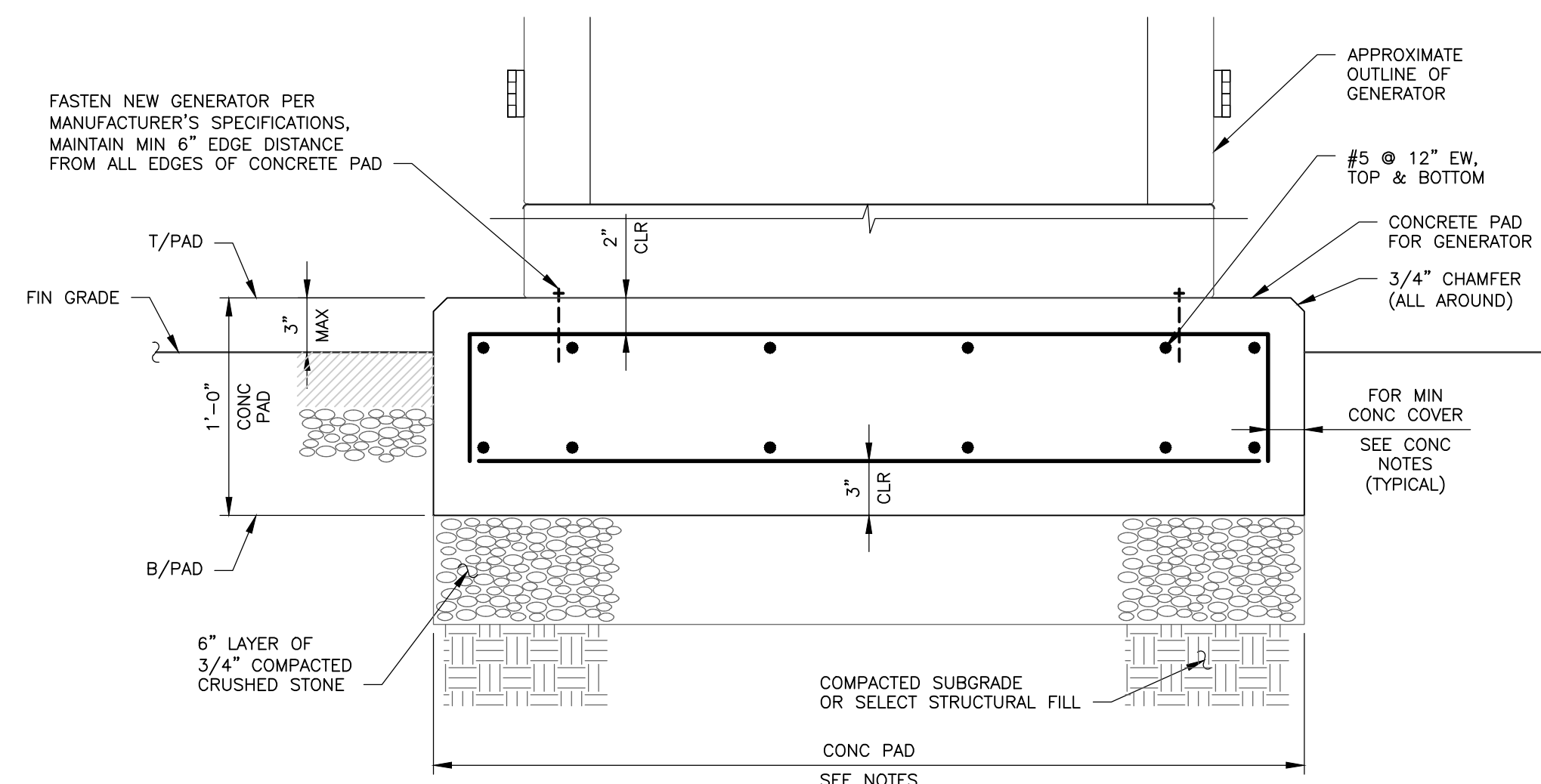
STD REBAR HOOK & SPLICE DIMENSIONS

DIAGRAM	SIZE	HOOK L _H	L _S	
			VERT	HORIZ
	#5	10"	31"	40"

NOTE: BASED ON 4,000 PSI CONCRETE.

NOTES

- SHELTER/GENERATOR SIZE AND ORIENTATION MAY VARY FROM THE LAYOUT SHOWN. CONTRACTOR SHALL VERIFY EXACT SHELTER DIMENSIONS AND ORIENTATION PRIOR TO COMMENCING ANY FOUNDATION WORK.
- ATTACHMENT OF SHELTER TO CONCRETE SLAB SHALL BE IN ACCORDANCE WITH SHELTER MANUFACTURER'S RECOMMENDATIONS.
- ALL REQUIRED TIE DOWN PLATES, SHIMS, BOLTS, AND ANCHORS SHALL BE PROVIDED BY THE SHELTER MANUFACTURER AND SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE SHELTER MANUFACTURER'S RECOMMENDATIONS.
- PROVIDE REBAR GROUNDING AS DIRECTED BY SHELTER MANUFACTURER AND ELECTRICAL/GROUNDING SHEETS.
- SLAB AND/OR FOUNDATION INSULATION IN ACCORDANCE WITH ALL APPLICABLE LOCAL ENERGY CODES SHALL BE INSTALLED BY THE CONTRACTOR AS REQUIRED BY THE SHELTER MANUFACTURER.
- FINISHED GRADE SHALL BE SLOPED AWAY FROM THE SHELTER FOUNDATION.



- NOTES:**
- PRIOR TO CONSTRUCTION AND FABRICATION OF THE FOUNDATION SYSTEM, CONTRACTOR SHALL COORDINATE FINAL GENERATOR DIMENSIONS, ANCHOR LAYOUTS/LOCATIONS, AND FOUNDATION RECOMMENDATIONS WITH THE GENERATOR MANUFACTURER.
 - GENERATOR CONNECTION TO PROPOSED FOUNDATION SYSTEM SHALL BE COORDINATED WITH AND APPROVED BY GENERATOR MANUFACTURER. MAINTAIN A MINIMUM OF 6" FROM ANCHORS TO EDGE OF SLAB. MANUFACTURER SHALL CONTACT ENGINEER OF RECORD IF ANCHOR SYSTEM CANNOT COMPLY WITH PROPOSED FOUNDATION SYSTEM. FOUNDATION DIMENSIONS TO BE ADJUSTED TO MATCH GENERATOR SPECS.

6 GENERATOR FDN SECTION
SCALE: 1 1/2" = 1'-0"

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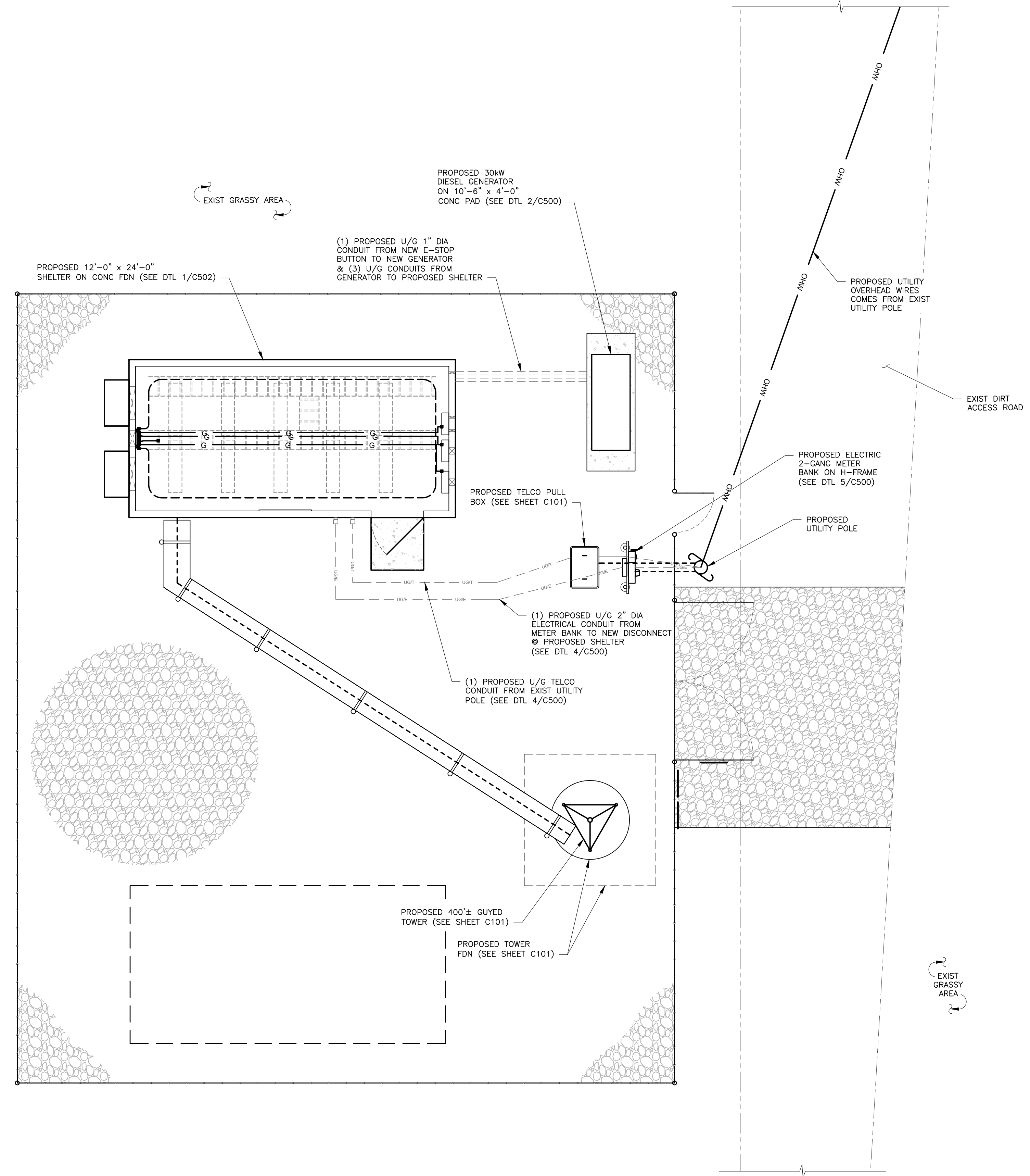
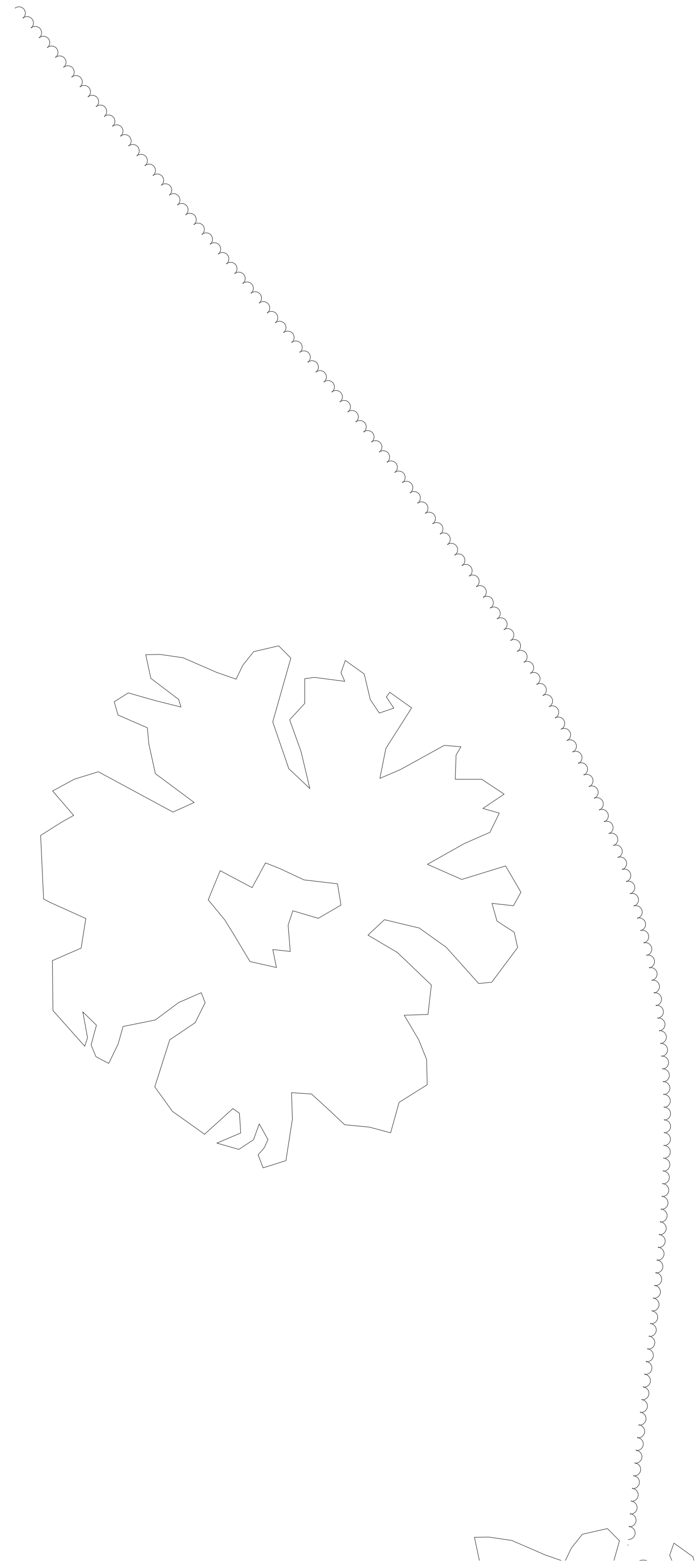
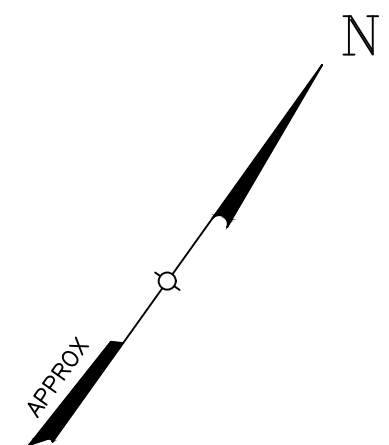
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EDWARD JAMICELI
No. 0011767
REGISTERED PROFESSIONAL ENGINEER (CIVIL)

STRUCTURAL PLANS, SECTIONS, & DETAILS			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No.: C502	Rev: 3
Scale: AS NOTED			



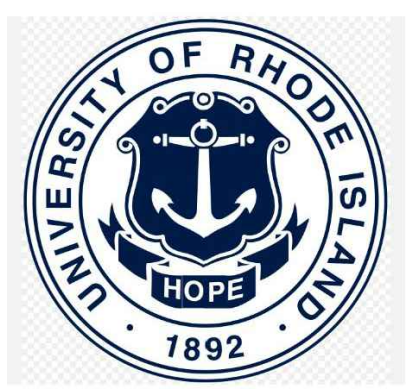
1 ROUTING PLAN
E100 SCALE: 1:5

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ORIGINAL SIZE IN INCHES



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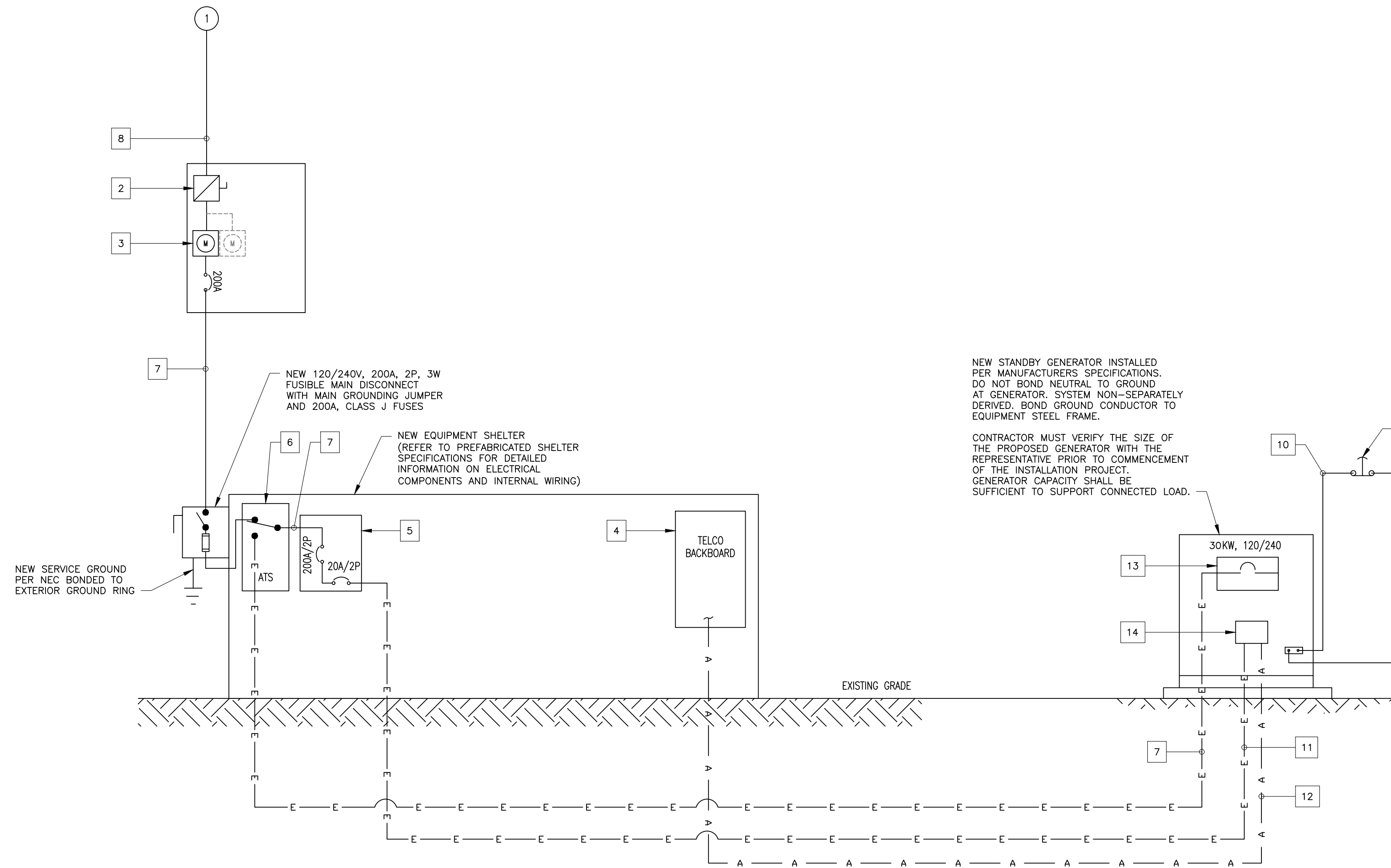
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TROY GREGORY KENNEN
No. 13229
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

ROUTING PLAN			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. E100	Rev 2
Scale AS NOTED			

KEY NOTE LEGEND

- EXISTING ITEMS**
- EXISTING ELECTRICAL SERVICE
- NEW ITEMS**
- NEW MULTI-METER GANG BOX
 - NEW METER WITH 200A CIRCUIT BREAKER
 - NEW TELCO BOARD IN SHELTER
 - AC PANEL 200A MAIN BREAKER, 120/240V, 1P, 3-WIRE, 42P W/INTEGRATED TRANSIENT VOLTAGE SURGE SUPPRESSOR
 - NEW ATS 120/240V, 200A, 2P, SOLID NEUTRAL, 60 IN SHELTER
 - (2) 3/0 + (1) 3/0 NEU + (1) #4G IN 2" CONDUIT
 - NEW CONDUCTORS TO BE ROUTED BY UTILITY COMPANY (TBD - PENDING ELECTRICAL CONSULT)
 - REMOTE MUSHROOM HEAD EMERGENCY STOP BUTTON ELECTRICALLY OPERATED TO SHUT DOWN GENERATOR
 - 1" CONDUIT AND CONDUCTORS FOR REMOTE EMERGENCY STOP
 - 3/4" CONDUIT W/CONDUCTORS TO BATTERY CHARGE FOR (3) #12 FROM 20/1 CKT BREAKER
 - ALARM CIRCUIT AND START/STOP CONTROL TO GENERATOR IN 1" CONDUIT. INSTALL BELDEN CABLE REQUIRED.
- INCLUDED WITH GENERATOR**
- 120/240V, 1P GENERATOR OUTPUT CIRCUIT BREAKER 200A, 2P
 - GENERATOR ALARMS, START-STOP CONTROL AND BATTERY CHARGER.



NOTE:
ANTI-OXIDATION COMPOUND SHALL BE APPLIED TO ALL ELECTRICAL CONNECTIONS, PER MANUFACTURER'S INSTRUCTIONS.

1 RISER DIAGRAM
E101 SCALE: NTS

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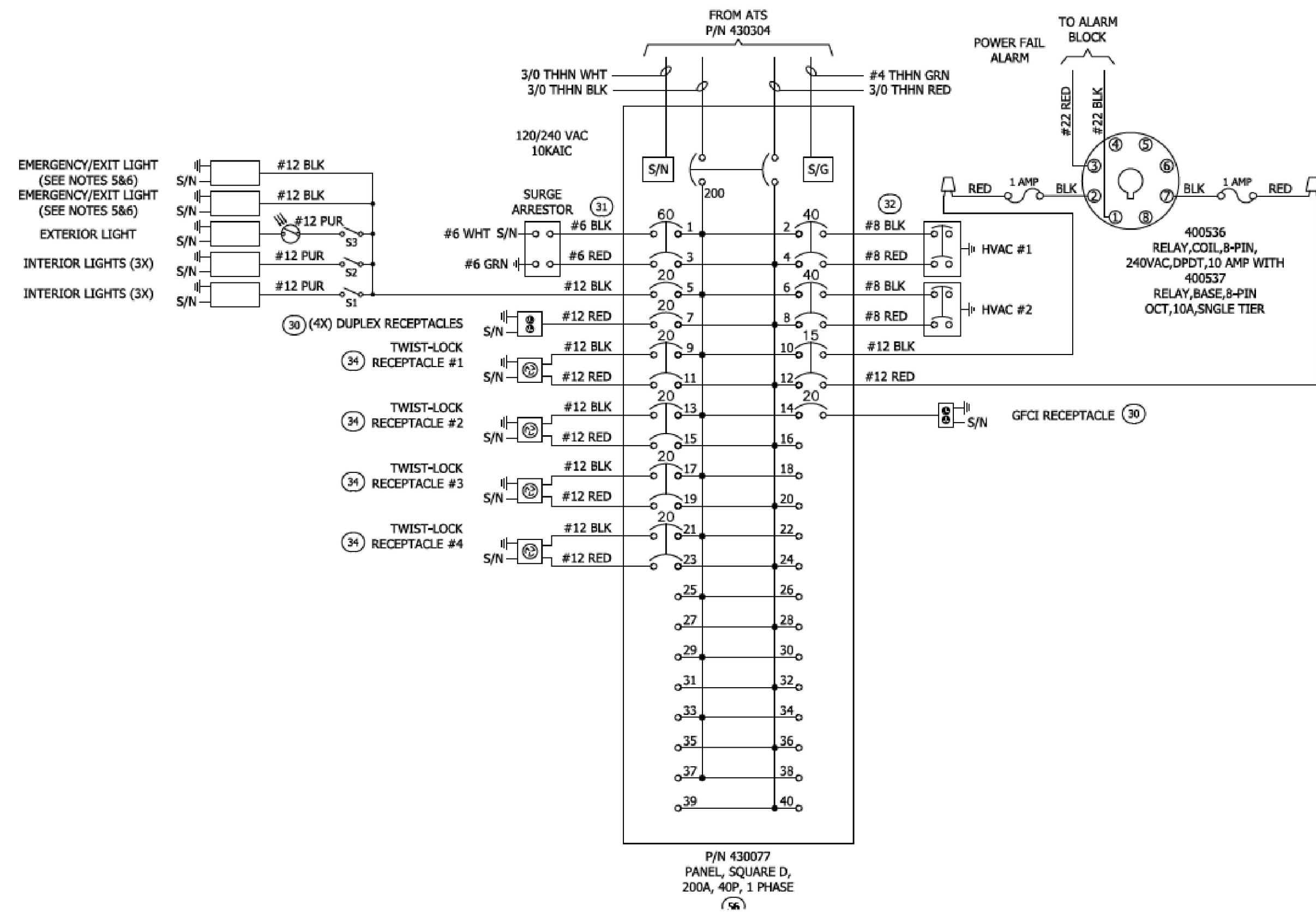
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TROY GREGORY KENNEN
No. 13229
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

RISER DIAGRAM & NOTES			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. E101	Rev 2
Scale AS NOTED			



- NOTES:
- DO NOT SHARE NEUTRALS UNLESS OTHERWISE NOTED.
 - WHEN AC AND DC WIRING IS LOCATED IN THE SAME BOX, ENCLOSURE, OR WIREWAY, WIRES MUST BE LABELED WITH VOLTAGE TYPE.
 - LABEL ALL CONDUCTORS WITH CIRCUIT NUMBER AT EVERY SPLICE OR CONNECTION POINT.
 - CAP RED 277V POWER LEAD CONNECTION OPTION.
 - DISCONNECT ALL BATTERIES AFTER TESTING, TO BE FIELD CONNECTED ON JOB SITE AFTER COMMERCIAL POWER IS MADE AVAILABLE.
 - FINAL ELECTRICAL TO BE COORDINATED WITH THE SHELTER MANUFACTURER.

1 PRELIMINARY PANEL "A" WIRING SCHEMATIC
E102 SCALE: NTS

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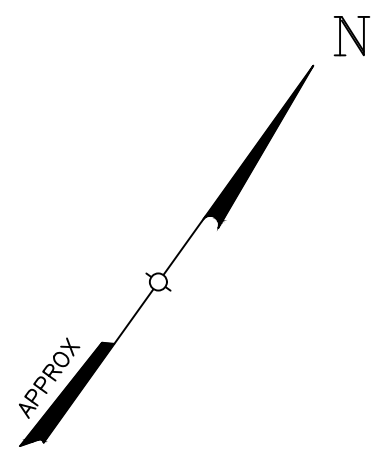
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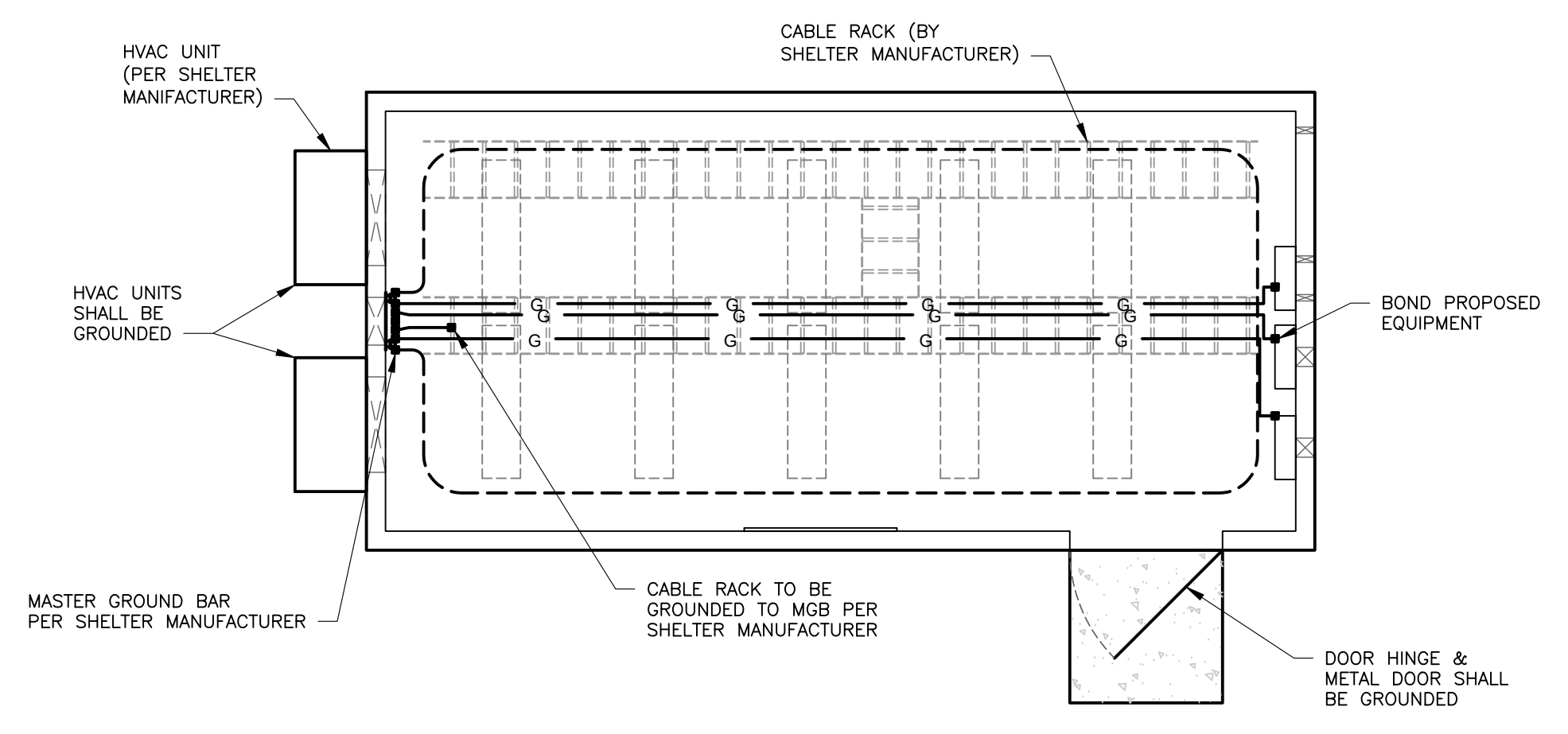
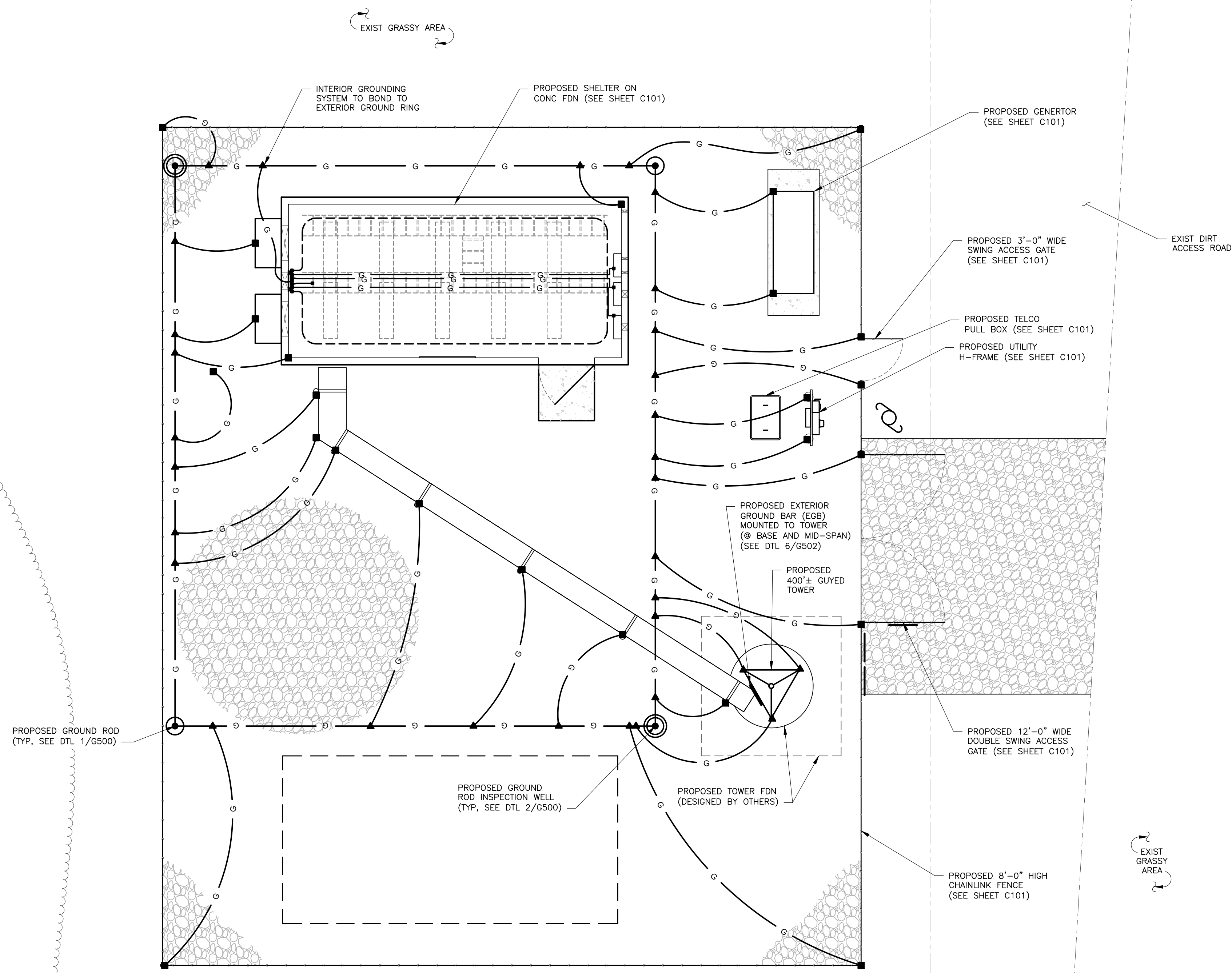
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TROY GREGORY KENNEN
No. 13229
REGISTERED
PROFESSIONAL ENGINEER
ELECTRICAL

PRELIMINARY WIRING SCHEMATICS			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. E102	Rev 2
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LEGEND	
	PROPOSED CHAIN LINK FENCE
	PROPOSED GROUND RING (#2/0 STRANDED)
	PROPOSED INTERIOR HALO GROUND RING (#2/0 STRANDED)
	PROPOSED GROUND CONDUCTOR (#2 SOLID)
	PROPOSED 5/8"x10'-0" COPPER OR STAINLESS STEEL COPPER CLAD GROUND ROD
	PROPOSED GROUND ROD INSPECTION WELL
	CADWELD OR OTHER APPROVED EXOTHERMIC WELDING SYSTEM
	GROUND LUG OR OTHER APPROVED MECHANICAL TYPE CONNECTION



NOTE: FINAL COORDINATION WITH THE SHELTER MANUFACTURER SHALL BE PERFORMED TO OBTAIN GROUNDING DESIGN.

2 INTERIOR GROUNDING PLAN (SHELTER)
G100 SCALE: 3" = 1'-0"

1 EXTERIOR GROUNDING PLAN
G100 SCALE: 1" = 5'

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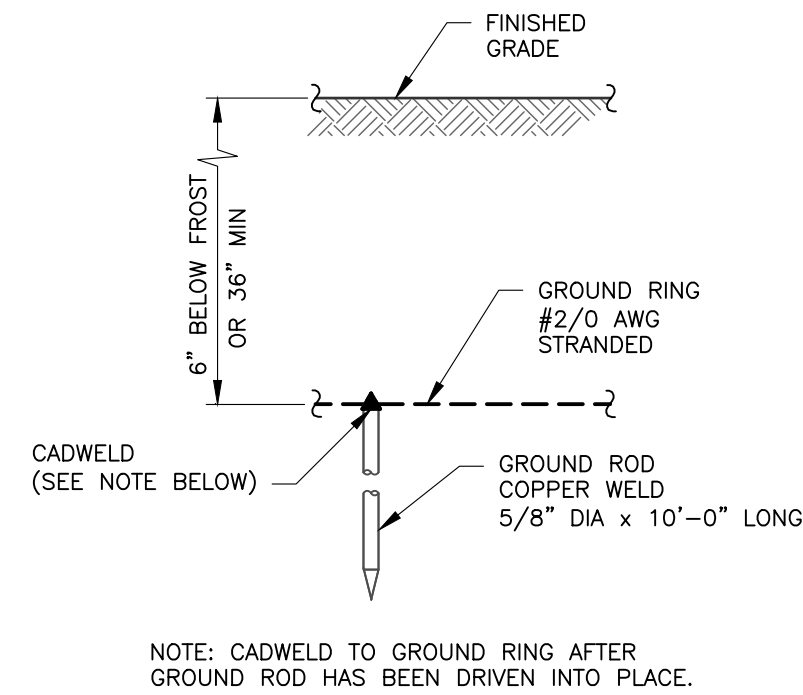
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TROY GREGORY KENNEN
No. 13229
REGISTERED PROFESSIONAL ENGINEER ELECTRICAL

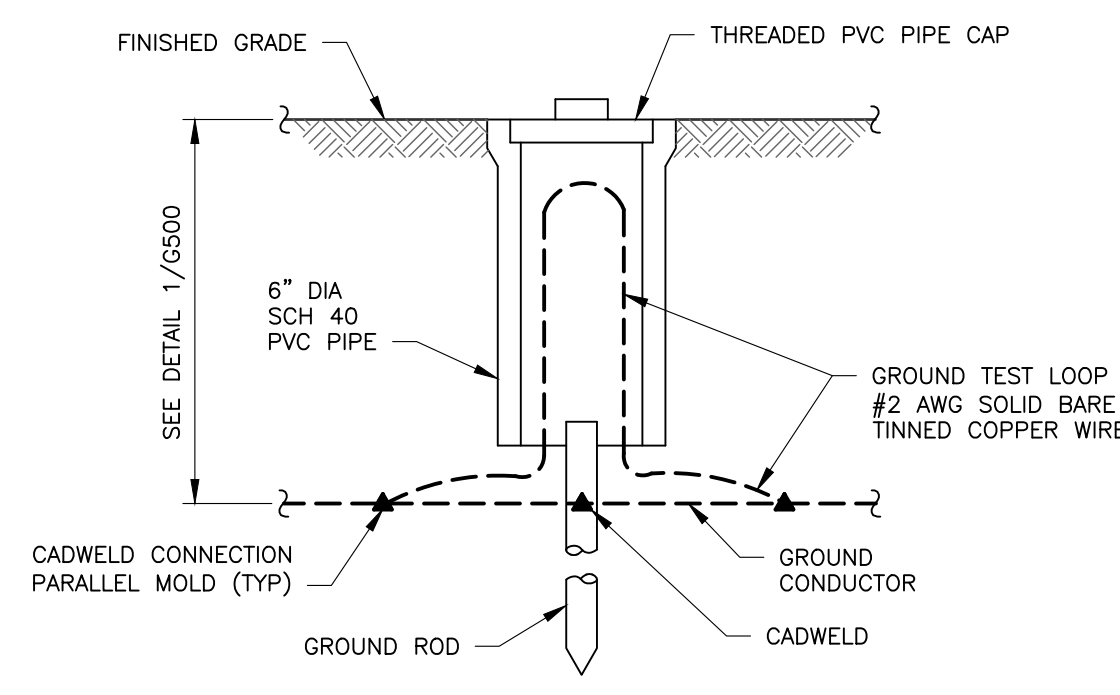
GROUNDING PLANS & NOTES			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. G100	Rev 2
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GROUNDING NOTES

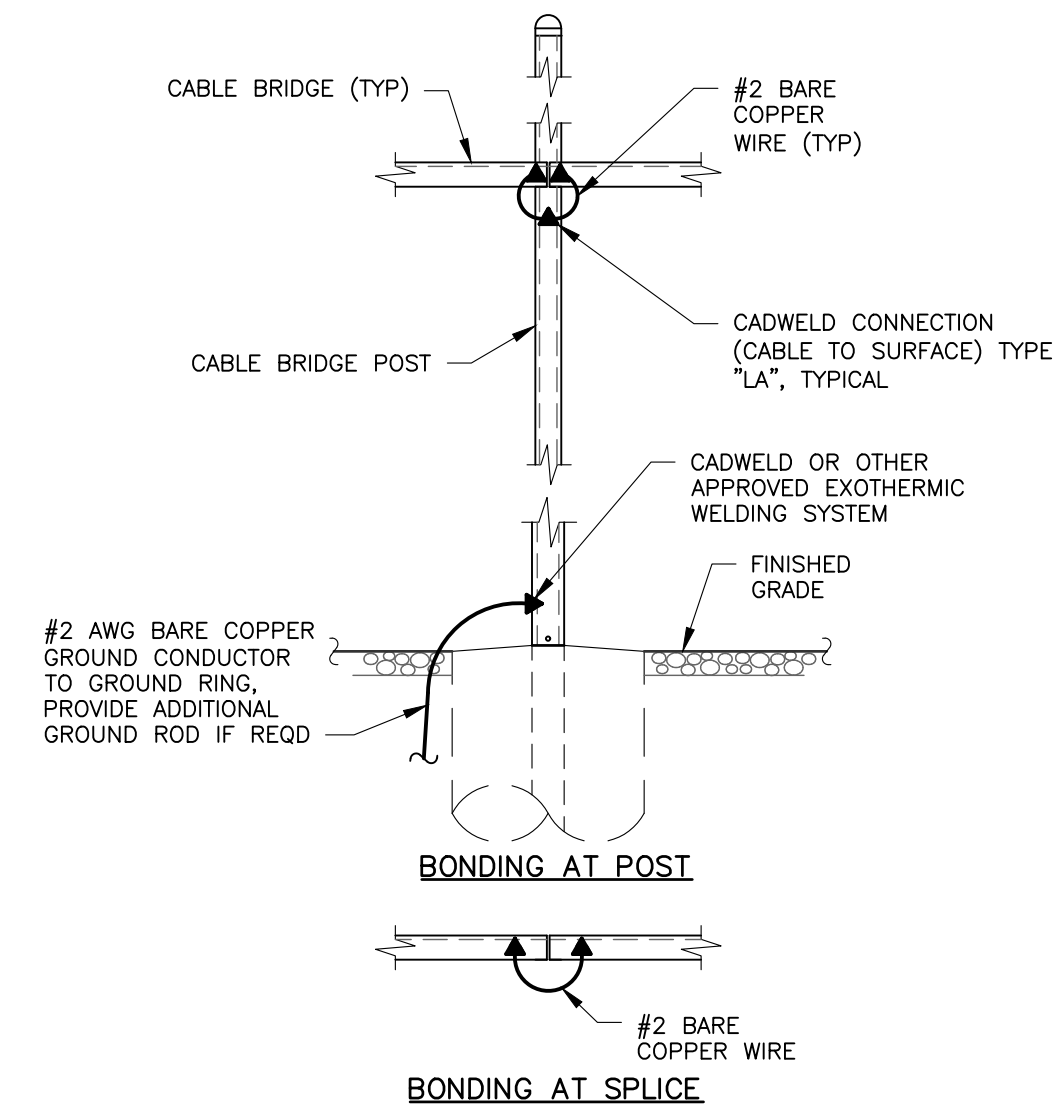
1. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY THE NEC (NFPA 70) AND ALL OTHER APPLICABLE CODES.
2. GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2, UNLESS OTHERWISE NOTED. ALL EXPOSED #2 WIRE MUST BE TINNED NOT BCW.
3. ALL UNDERGROUND GROUNDING CONDUCTORS SHALL BE #2/0 AWG STRANDED TINNED COPPER WIRES, BURIED BELOW FROSTLINE AND MUST BE EXOTHERMICALLY WELDED.
4. GROUNDING RODS SHALL BE STAINLESS STEEL OR COPPER-CLAD STEEL, 5/8" DIA x 10'-0" LONG MINIMUM, SPACED AT 10' ON CENTER MAXIMUM, WITH TOP OF THE ROD BURIED BELOW FROST LINE. GROUND RODS SHALL BE EXOTHERMICALLY WELDED TO UNDERGROUND GROUNDING LOOP.
5. ALL ABOVE GROUND CONNECTIONS SHALL BE CADWELD, BOLT CLAMP, OR SPLIT BOLT CONNECTORS. CRIMP CONNECTORS SHALL NOT BE USED ON SOLID CONDUCTORS.
6. ALL WIRE CONNECTORS SHALL BE THREE-CRIMP C TAP COMPRESSION, THOMAS & BETTS #54740, ORANGE, OR EQUIVALENT.
7. ALL CONNECTORS SHALL BE CRIMPED USING HYDRAULIC CRIMPING TOOLS, THOMAS & BETTS #TBM 8 OR EQUIVALENT.
8. ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FILED TO ENSURE PROPER CONTACT. NO WASHERS ARE ALLOWED BETWEEN THE ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT APPLIED PRIOR TO INSTALLATION.
9. ALL BENDS SHALL BE AS SHALLOW AS POSSIBLE, WITH NO TURN SHORTER THAN AN 8-INCH NOMINAL RADIUS.
10. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY OWNER'S REPRESENTATIVE FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE.
11. WHERE ANY GROUNDING CONDUCTOR PASSES THROUGH METAL CONDUIT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
12. UPON COMPLETION OF WORK, CONDUCT CONTINUITY AND FALL OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO OWNER'S REPRESENTATIVE.
13. GROUNDING CONNECTION TO TRAVEL IN A DOWNWARD DIRECTION.



1 GROUND ROD DETAIL
SCALE: NTS

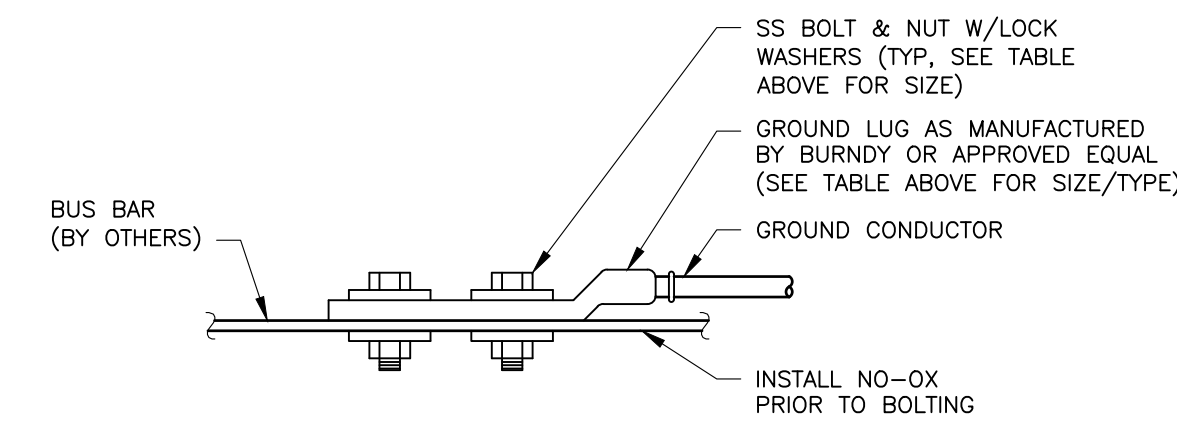


2 GROUND INSPECTION WELL
SCALE: NTS

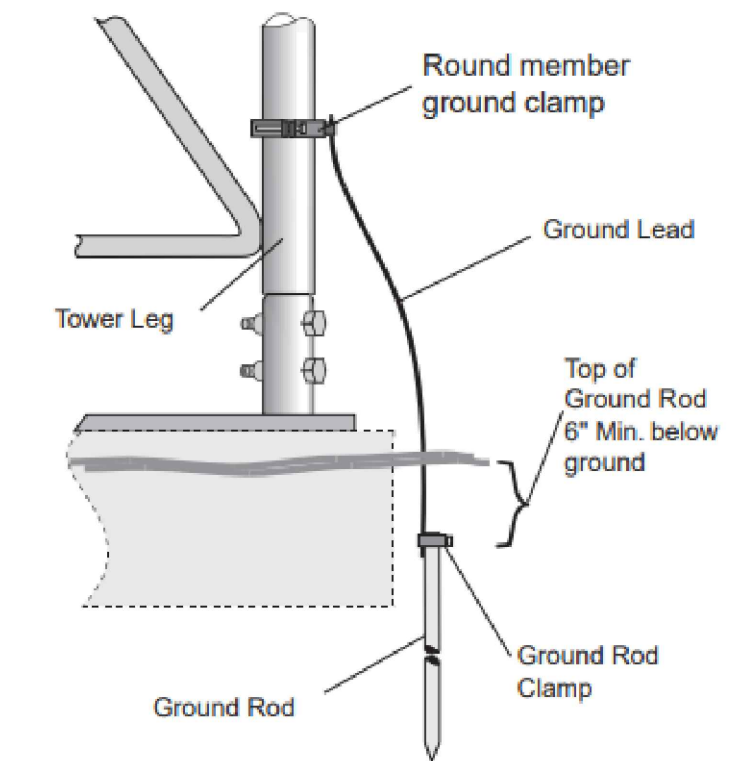


3 CABLE BRIDGE BONDING DETAIL
SCALE: NTS

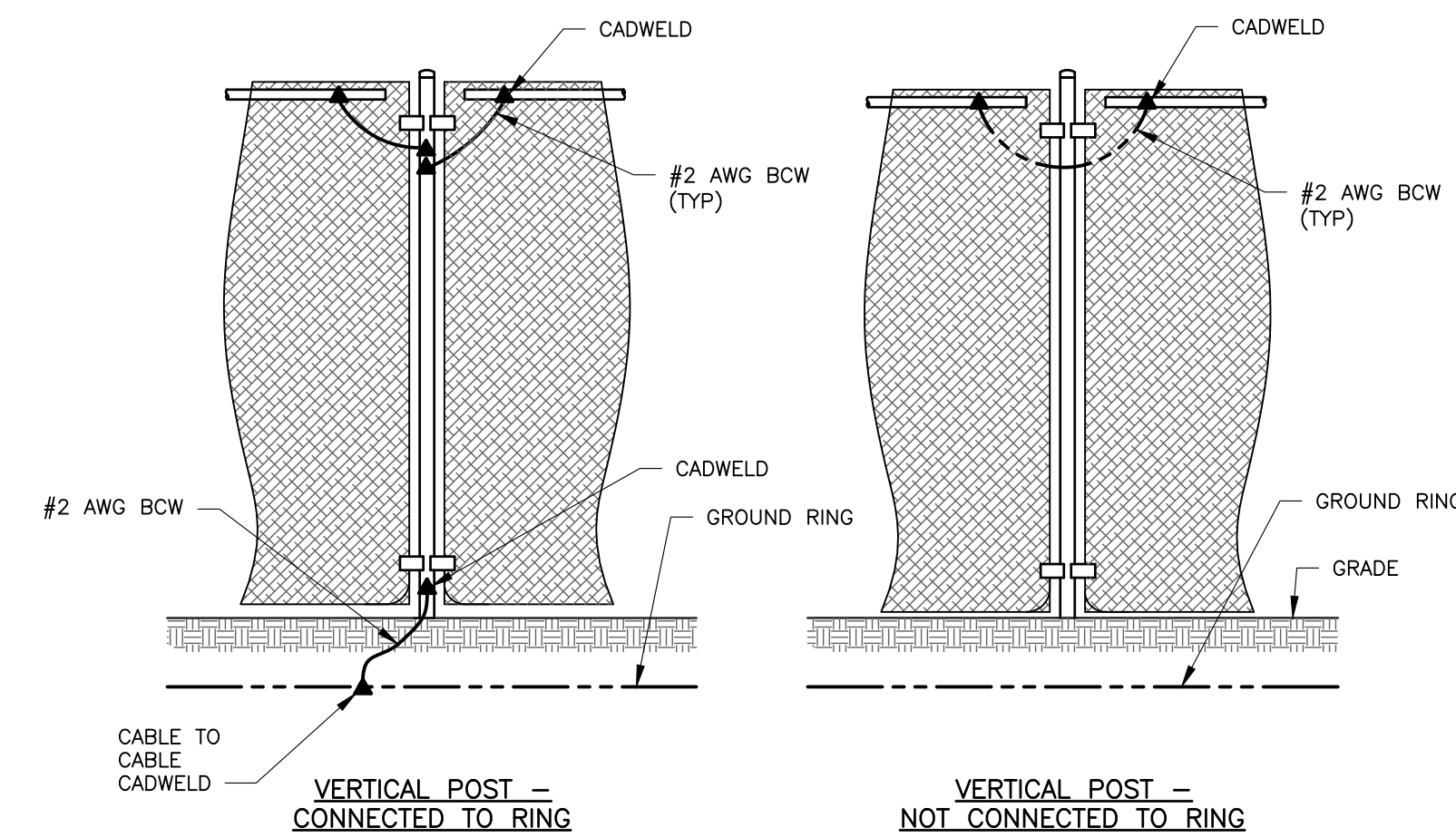
WIRE SIZE	BURNDY LUG #	BOLT DIA
#2	YA2CL-2TC14	1/4"
#2/0	YA25-2LN	1/2"



4 LUG GROUND CONNECTION
SCALE: NTS

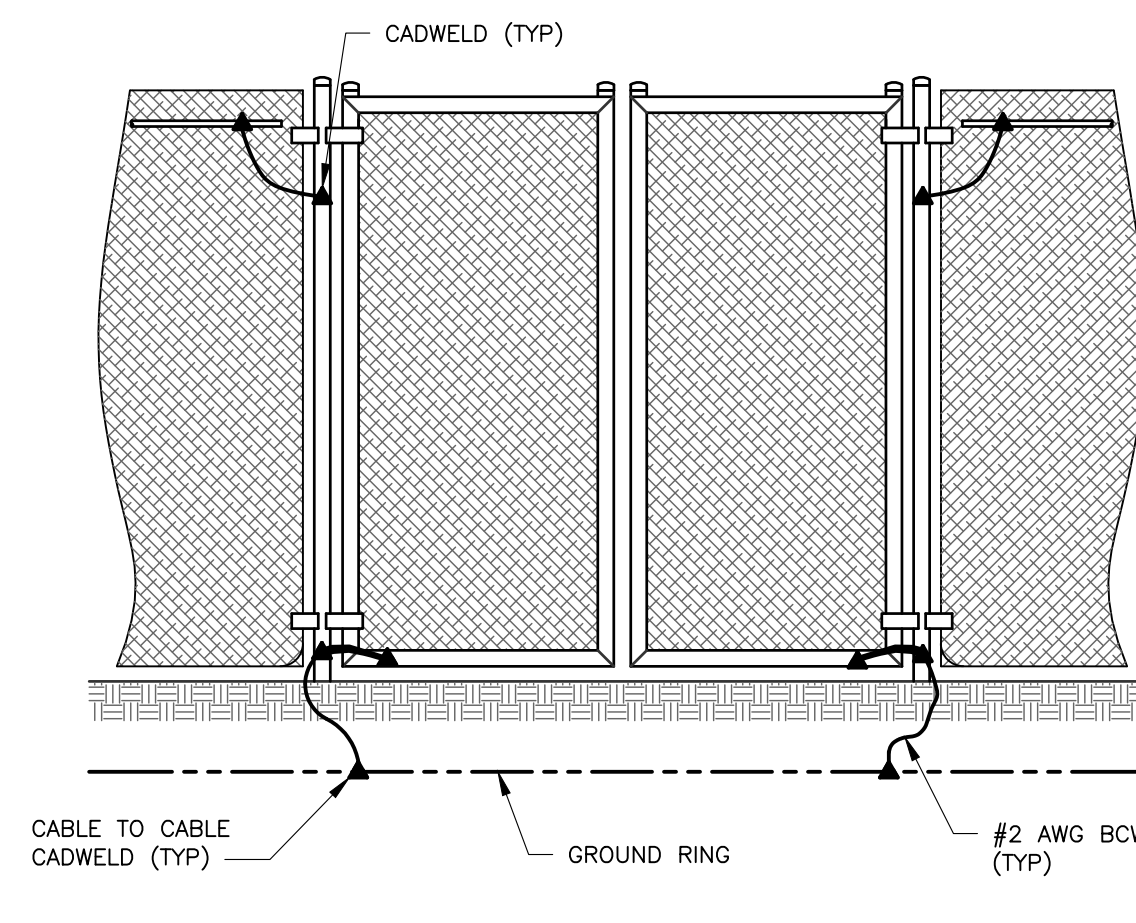


5 TOWER BASE GROUND CONNECTION
SCALE: NTS



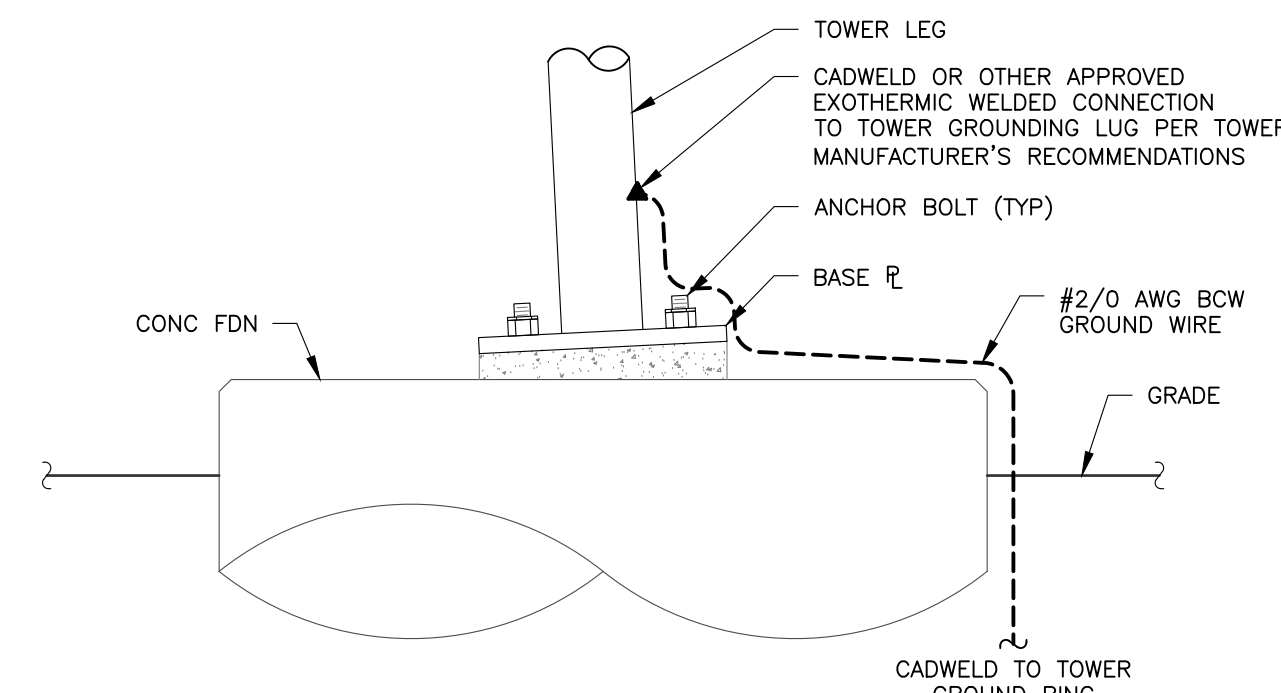
- NOTES:
1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM, ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 40 FOOT STRAIGHT RUN OF FENCE.
 2. HORIZONTAL RAILS SHALL BE BONDED TO EACH OTHER.
 3. BOND EACH HORIZONTAL RAIL TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING.

6 FENCE GROUNDING DETAIL
SCALE: NTS

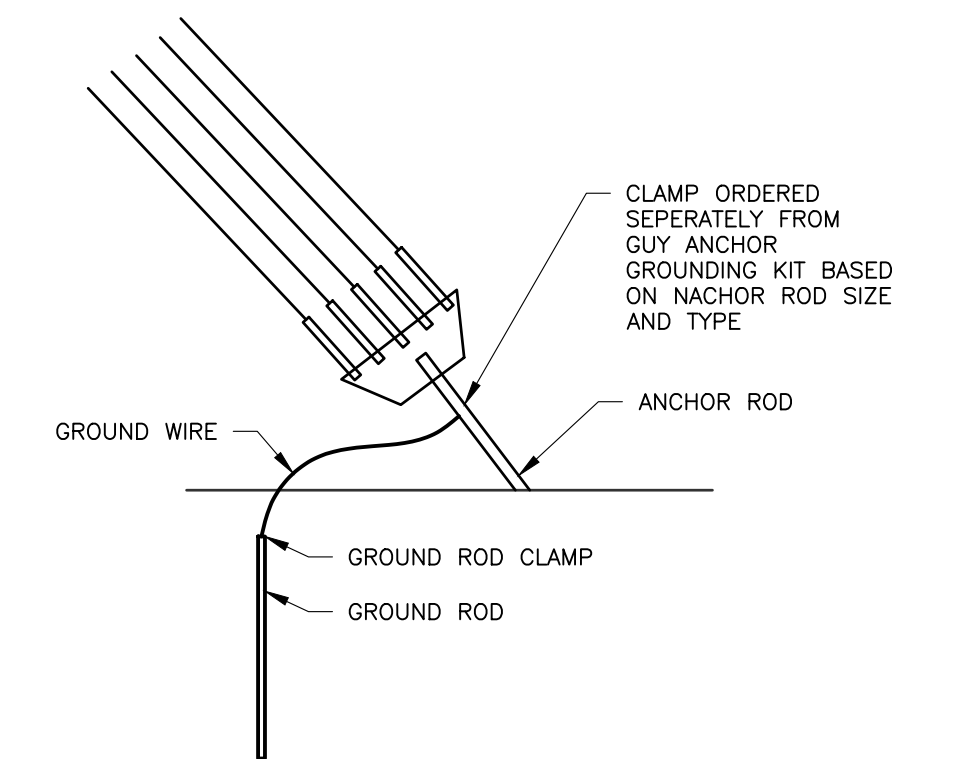


- NOTES:
1. THE #2 AWG, BCW, FROM THE RING GROUND SHALL BE CADWELDED TO THE POST ABOVE GRADE.
 2. BOND EACH HORIZONTAL RAIL TO EACH OTHER AND TO EACH VERTICAL POLE BONDED TO THE EXTERIOR GROUND RING.
 3. GATE JUMPER SHALL BE #4/0 AWG WELDING CABLE OR FLEXIBLE COPPER BRAID BURNED TYPE B WITH SLEEVES ON EACH END DESIGNED FOR EXOTHERMIC WELDING.
 4. GATE JUMPER SHALL BE INSTALLED SO THAT IT WILL NOT BE SUBJECTED TO DAMAGING STRAIN WHEN GATE IS FULLY OPENED IN EITHER DIRECTION.

7 GATE GROUNDING DETAIL
SCALE: NTS



8 TOWER LEG GROUNDING DETAIL
SCALE: NTS



9 GUY ANCHOR GROUND CONNECTION
SCALE: NTS

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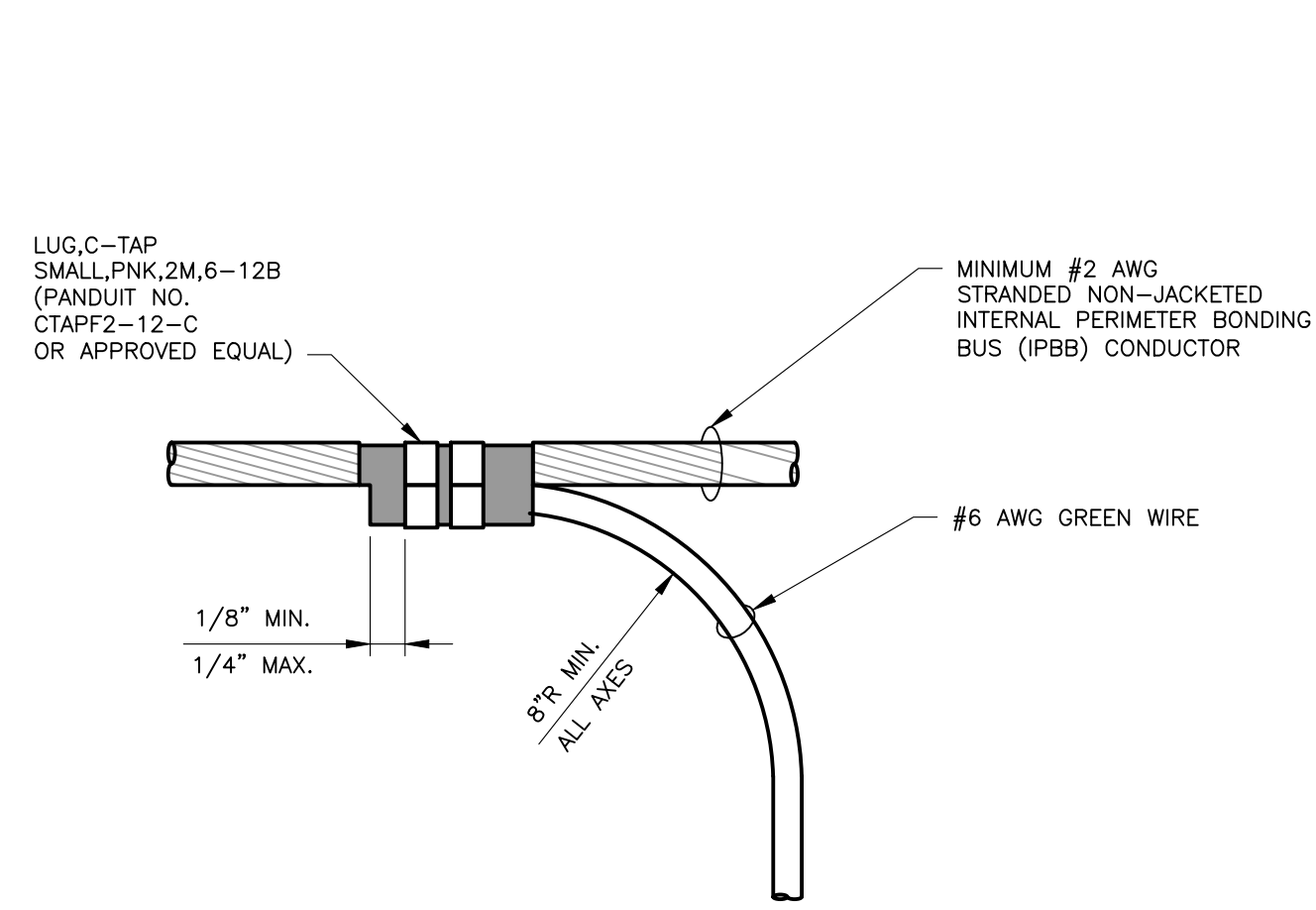
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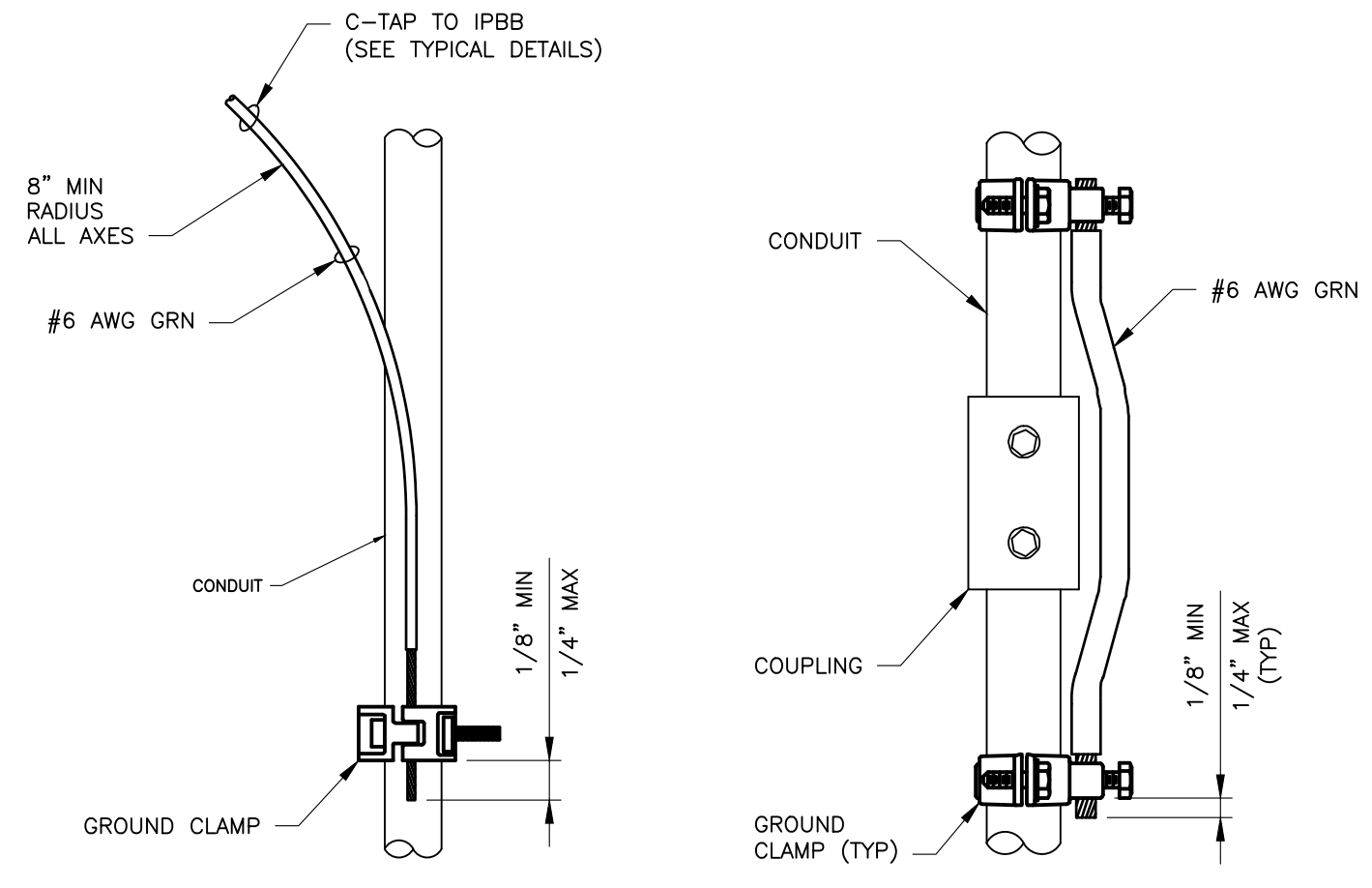
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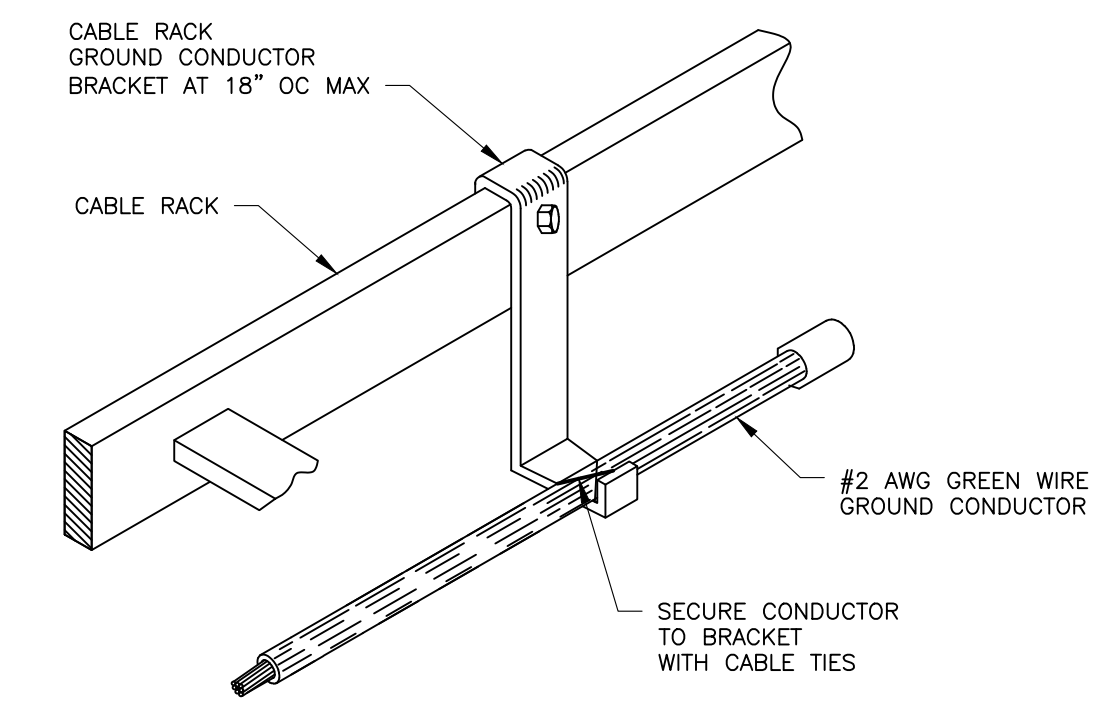
GROUNDING DETAILS & NOTES			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date: 3/18/2024	Work Order: 12117.01	Drawing No.: G500	Rev: 2



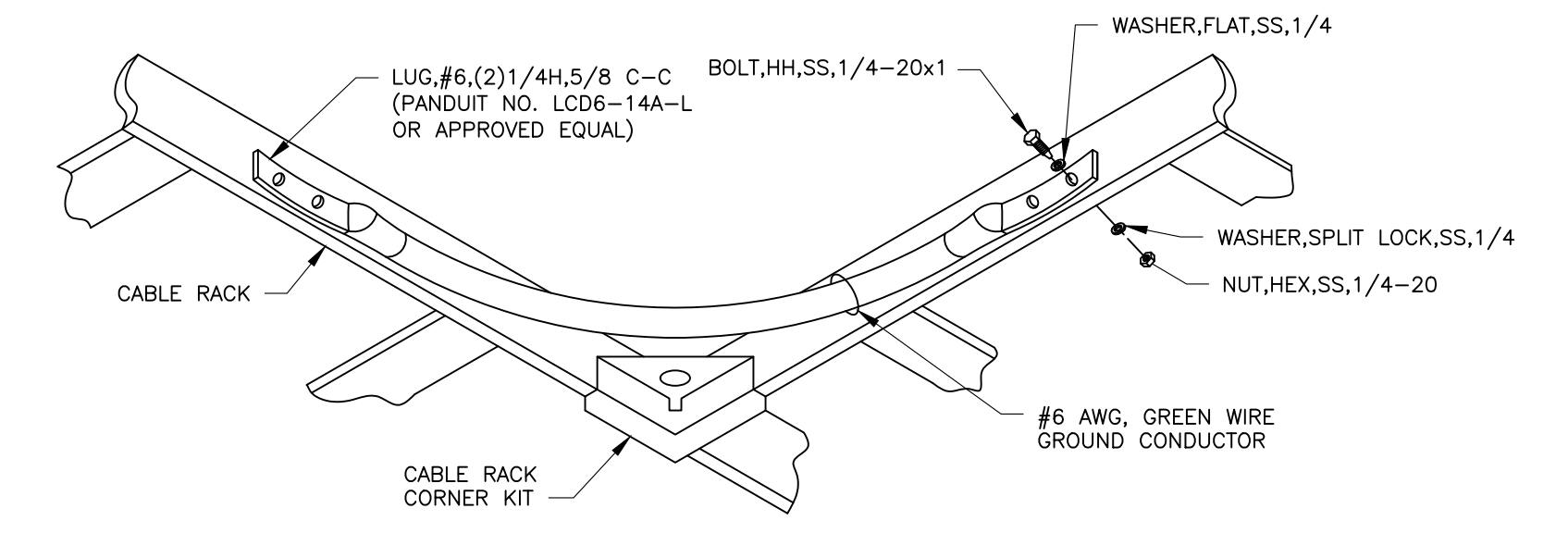
1 IPBB CONDUCTOR RING GROUND TAP
SCALE: NTS



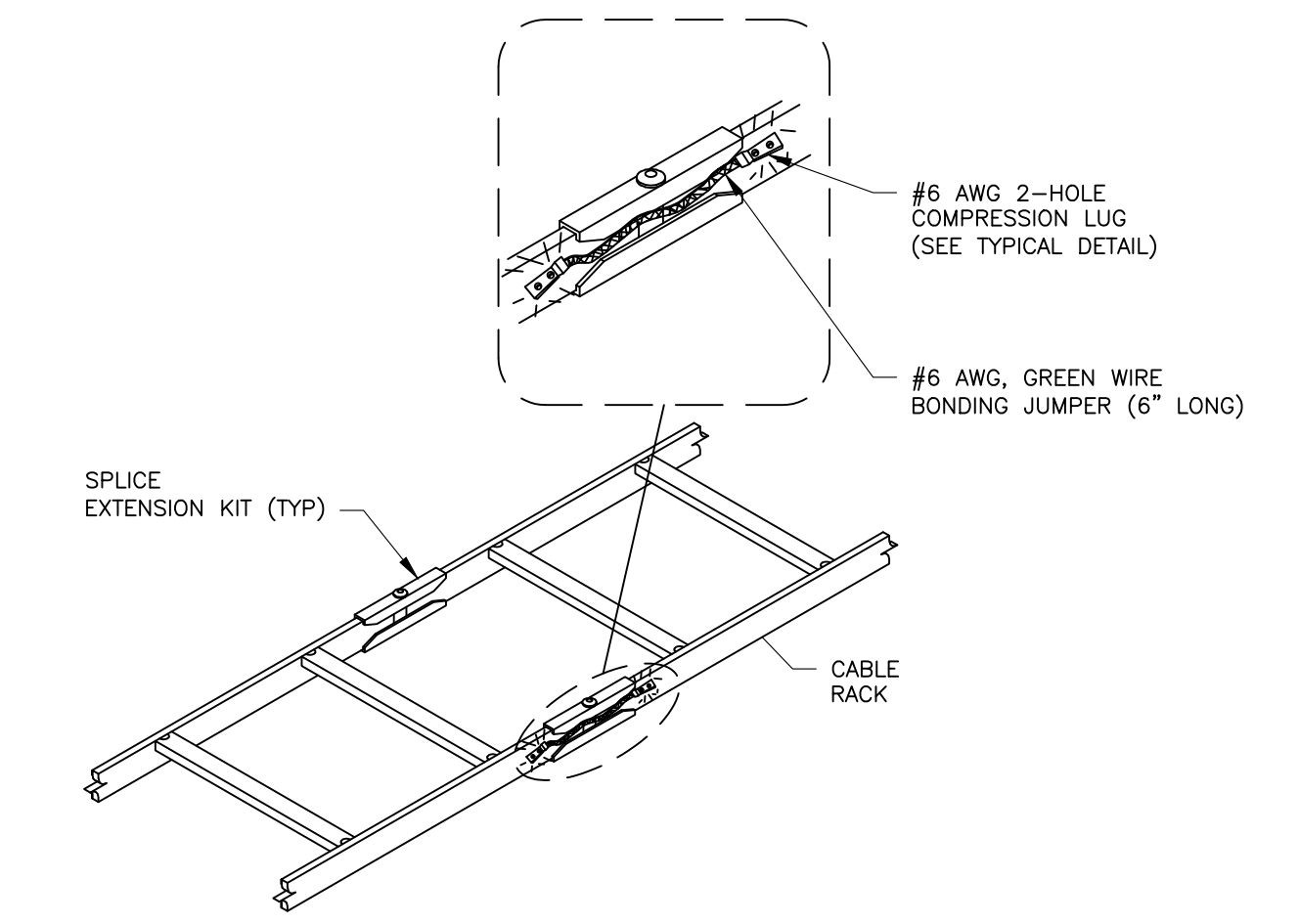
2 CONDUIT BOND DETAILS
SCALE: NTS



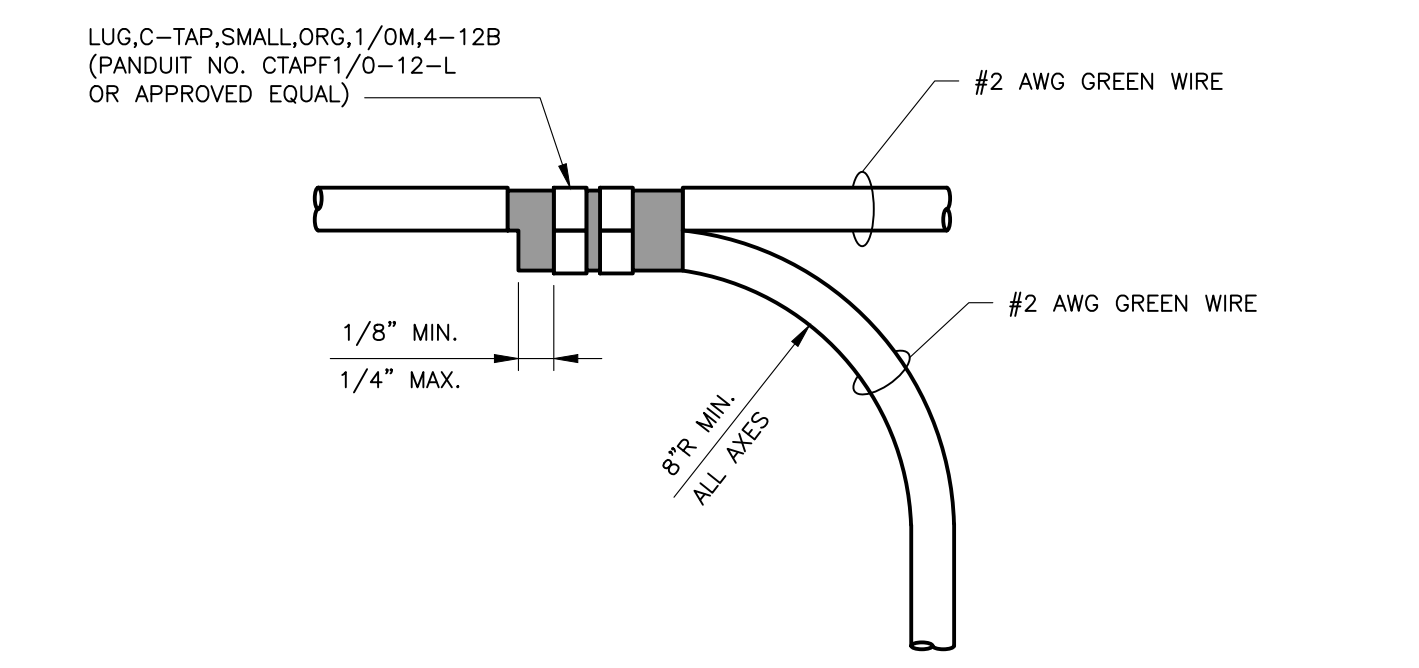
3 CABLE RACK BRACKET FOR GROUND WIRE
SCALE: NTS



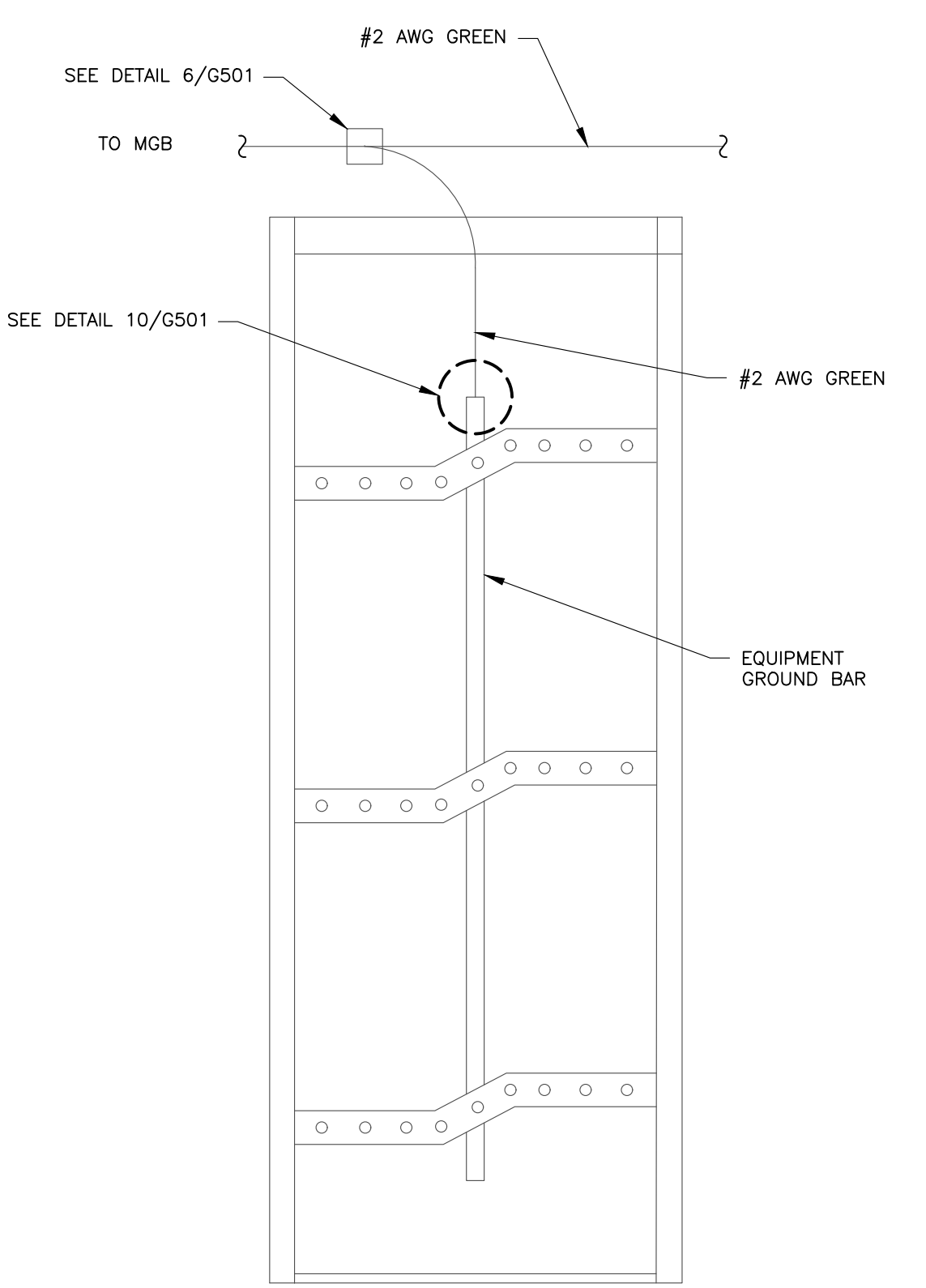
4 CABLE RACK BONDING AT CORNER
SCALE: NTS



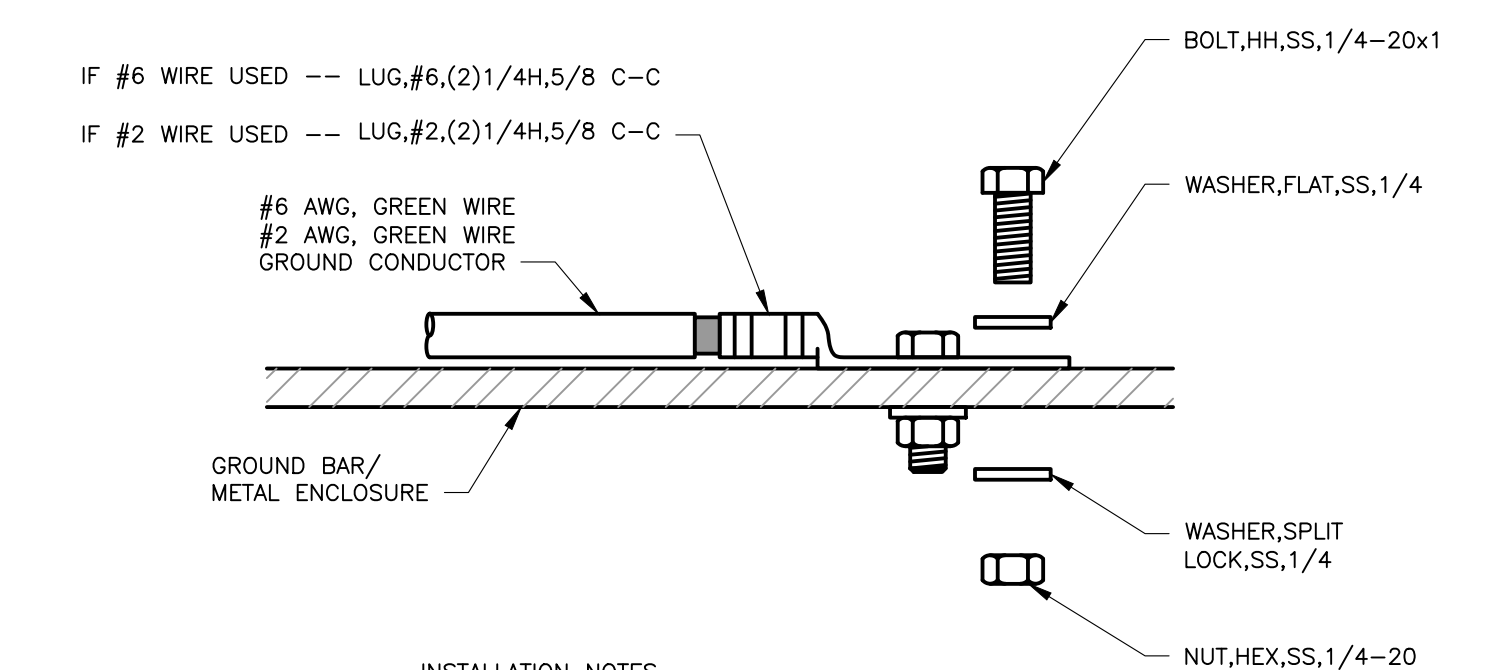
5 CABLE RACK BONDING AT SPLICE
SCALE: NTS



6 EQUIPMENT GROUND TAP
SCALE: NTS

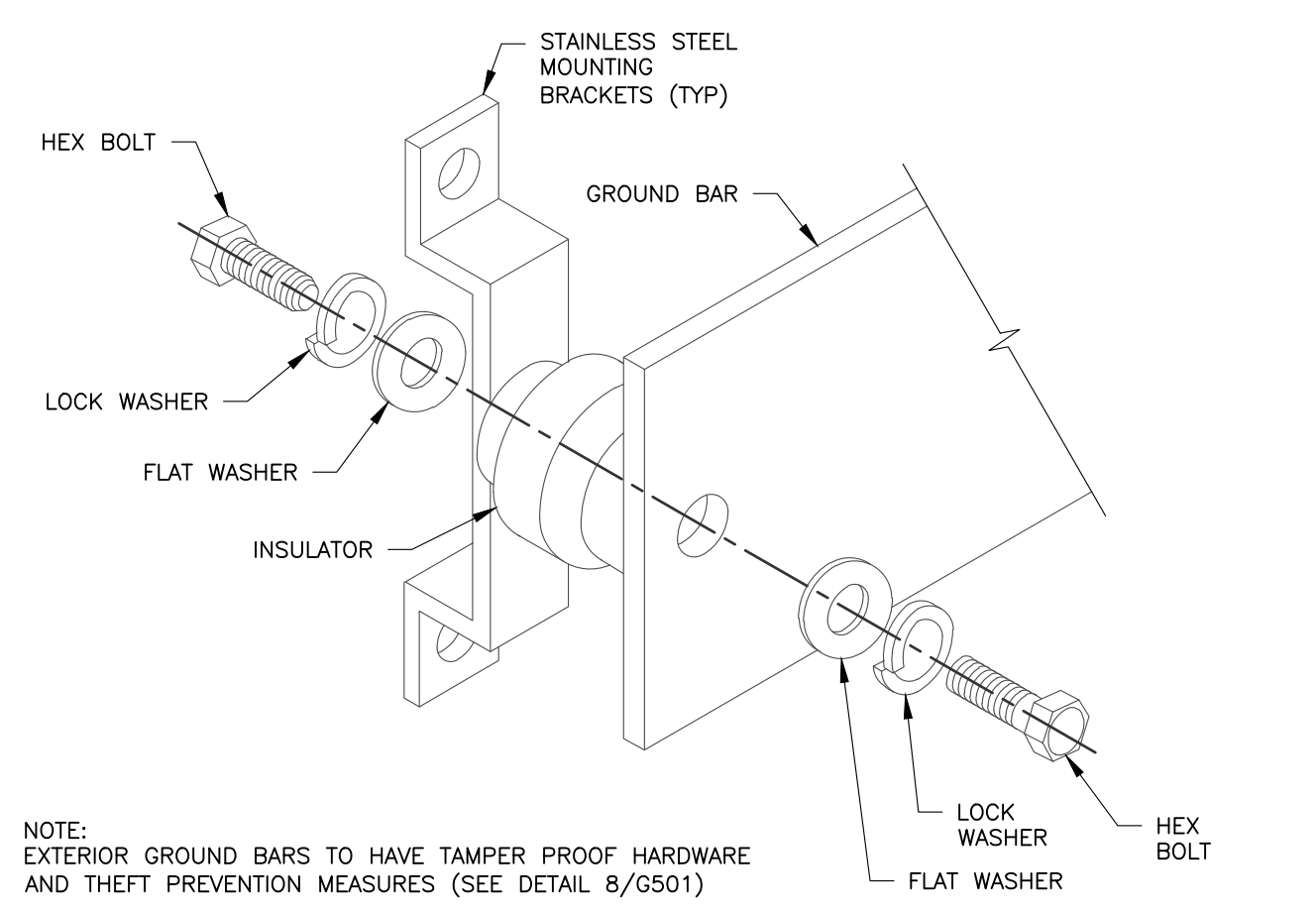


9 EQUIPMENT GROUNDING ELEVATION
SCALE: NTS (VIEWED FROM REAR OF EQUIPMENT)

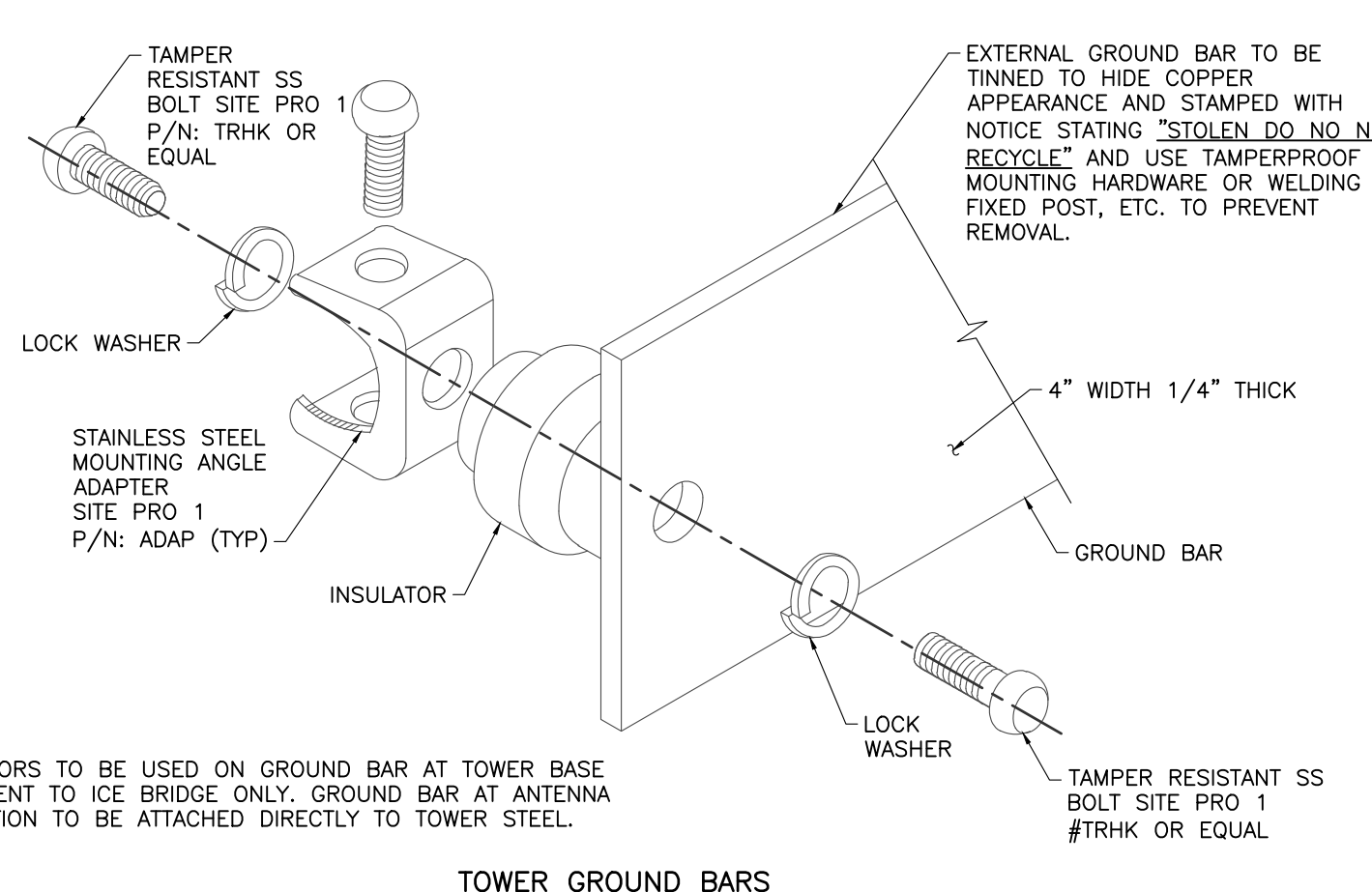


- INSTALLATION NOTES**
1. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
 2. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
 3. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG AND WIPE CLEAN EXCESS COMPOUND.
 4. USE SOLID COPPER WIRE AND MECHANICAL 2-HOLE LUG FOR ALL EXTERIOR GROUNDING.
 5. STAINLESS HARDWARE ONLY.
 6. ANTI-OX SHALL BE APPLIED TO ALL CONNECTION OF DISSIMILAR METALS.
 7. COPPER ENHANCED ANTI-OXIDANT COMPOUND SHOULD BE USED BETWEEN COPPER, BRASS, BRONZE, AND TIN-PLATED BONDING SURFACES.

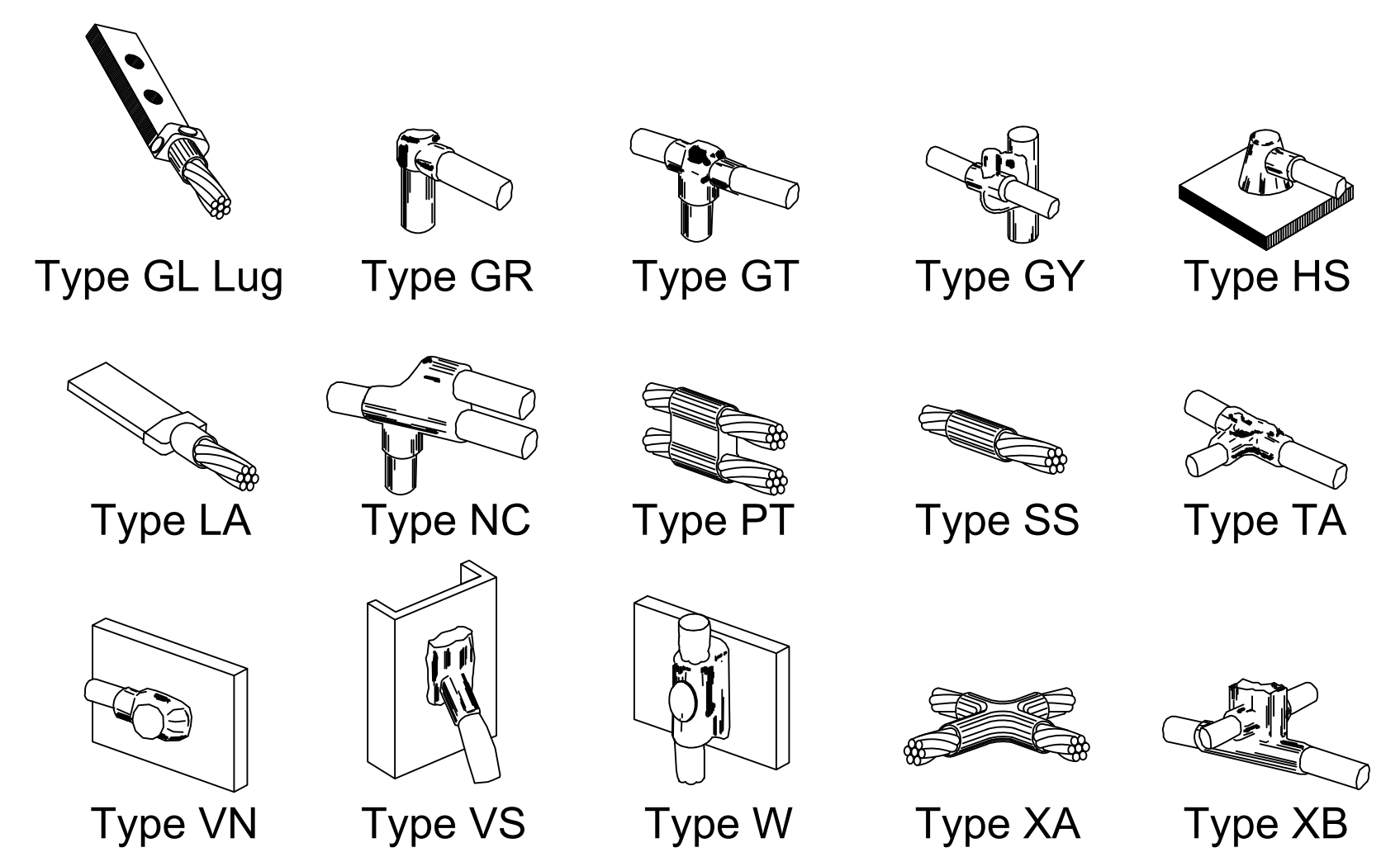
10 GROUNDING CONNECTION
SCALE: NTS



7 GROUND BAR WALL INSTALLATION
SCALE: NTS



8 GROUND BAR TOWER INSTALLATION DETAIL
SCALE: NTS



11 EXOTHERMIC (CADWELD) DETAILS
SCALE: NTS

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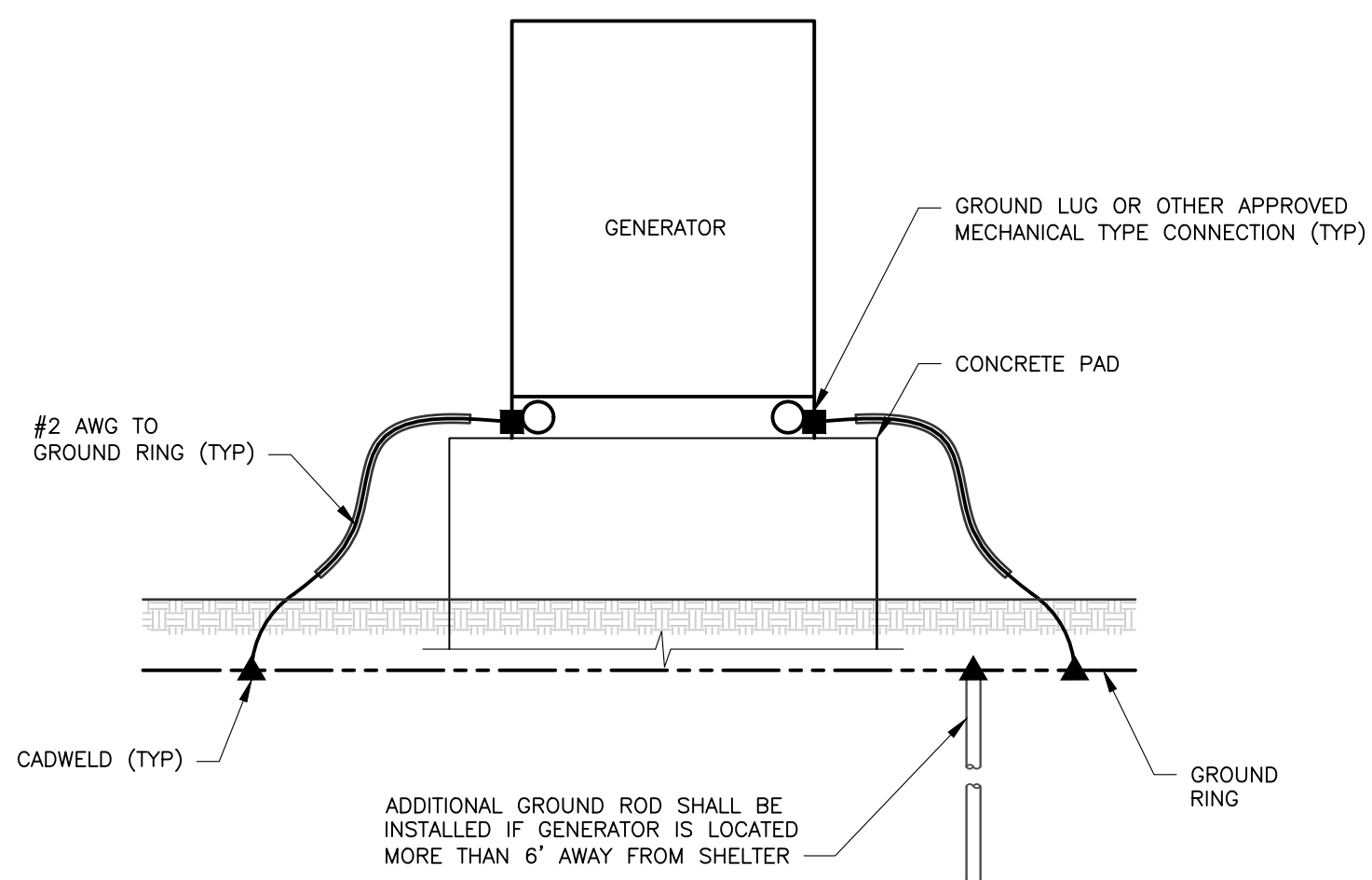
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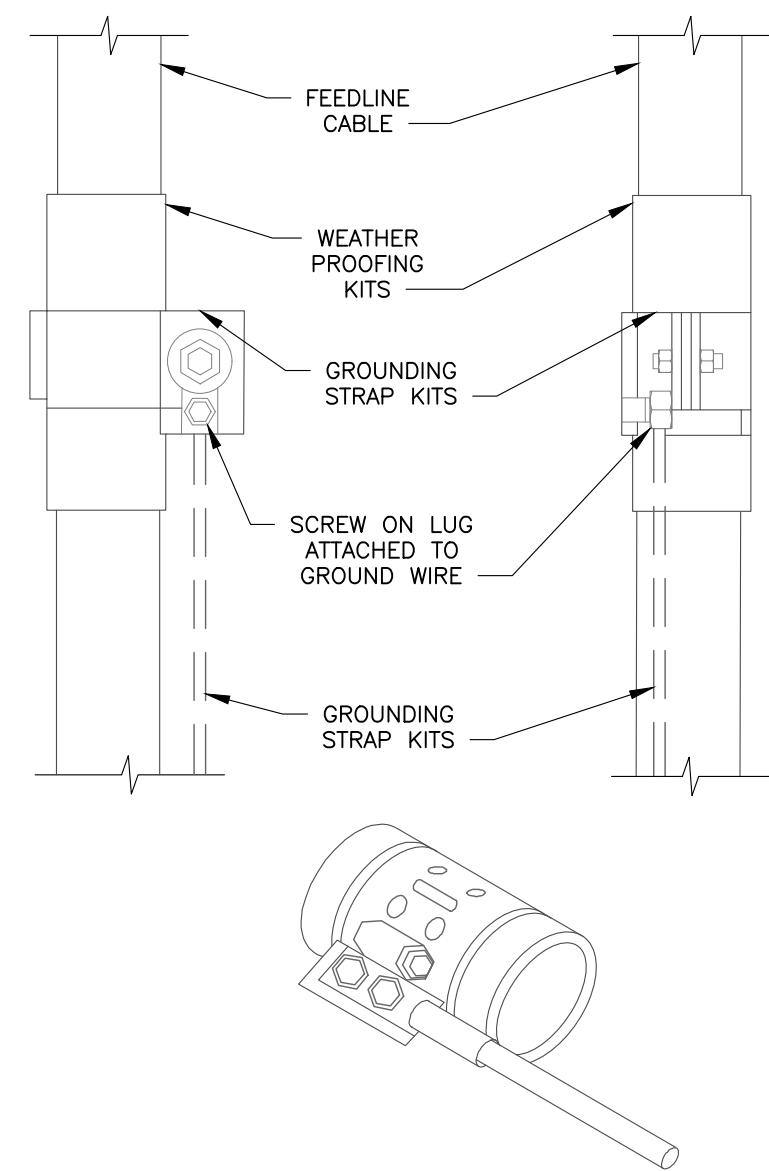
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GROUNDING DETAILS			
PROPOSED GUYED TOWER 875 PLAINS ROAD TOWN OF SOUTH KINGSTON WASHINGTON COUNTY, RI 02892			
Date 3/18/2024	Work Order 12117.01	Drawing No. G501	Rev 2
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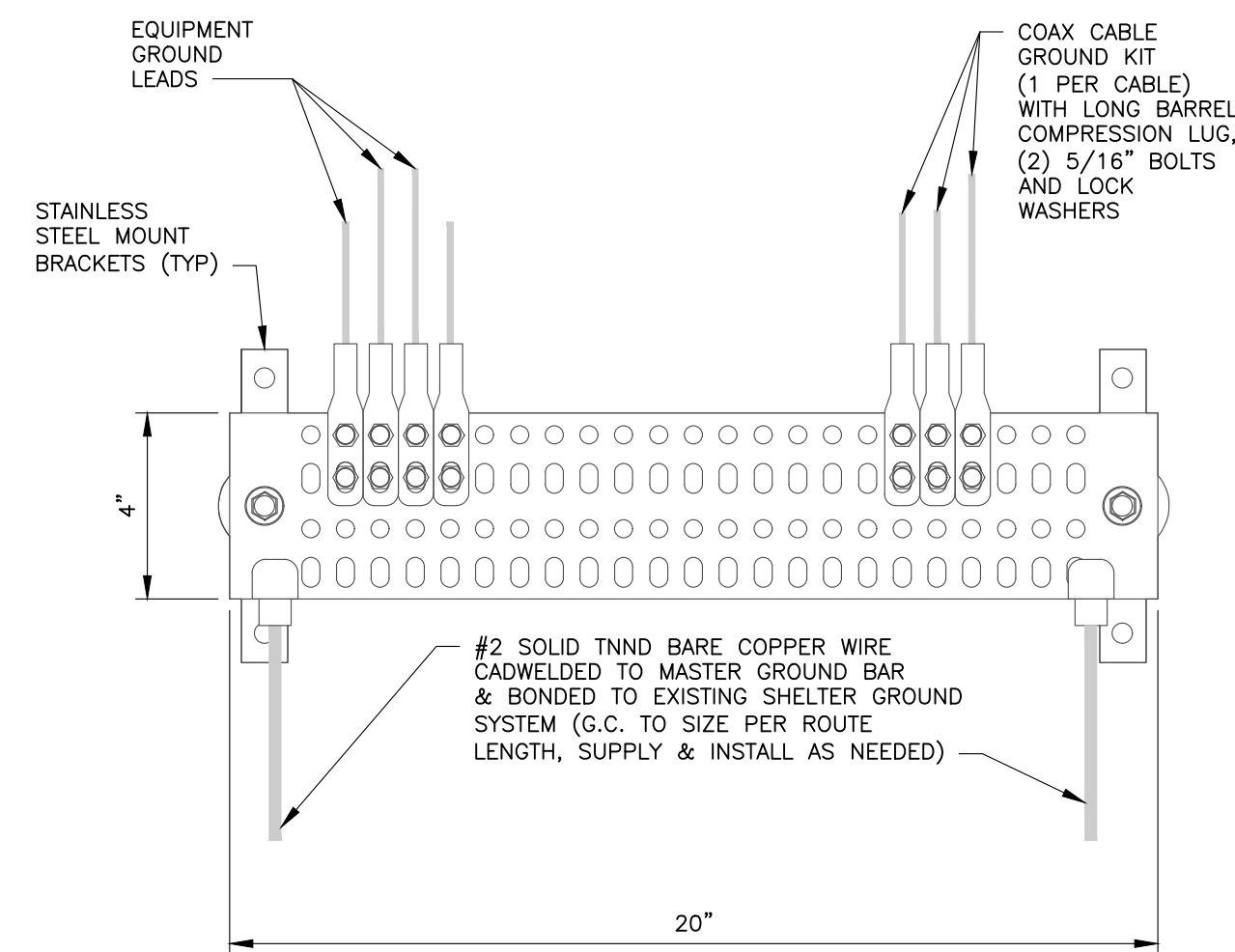
NOTES:
 1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. THIS DETAIL IS TYPICAL FOR EACH COAX/HYBRID CABLE WHERE IT IS SPECIFIED TO BE GROUNDED.
 3. CABLE TO BE GROUNDED AT ANTENNA LEVEL AND PRIOR TO ENTERING SHELTER ENTRY PANEL.
 4. CABLE ALSO TO BE GROUNDED TO GROUND BAR AT TOWER BASE IF APPLICABLE.



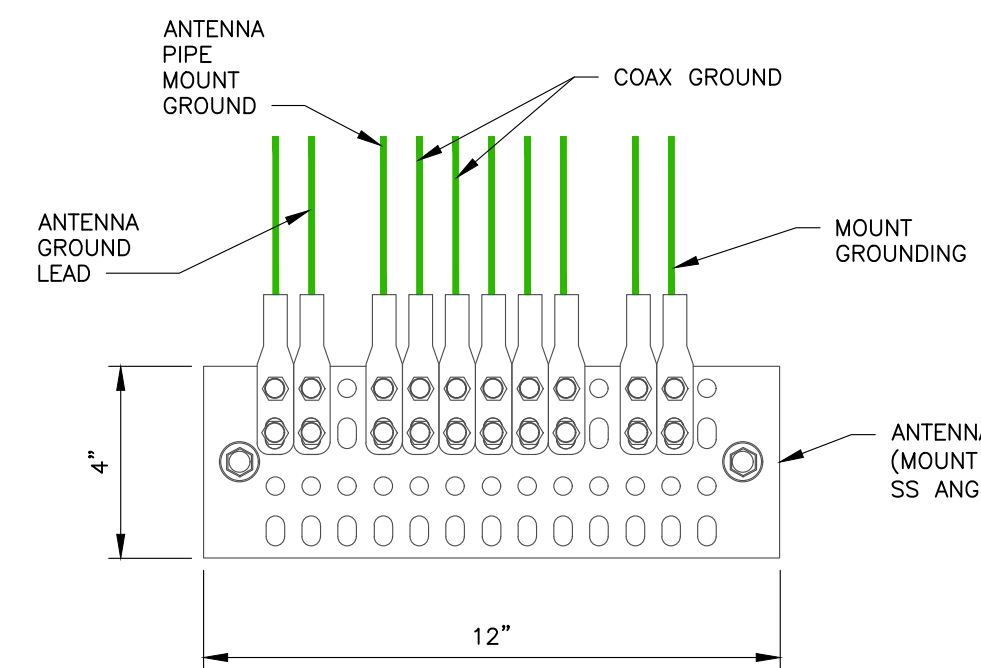
1 GENERATOR GROUNDING DETAIL
 G502 SCALE: NTS



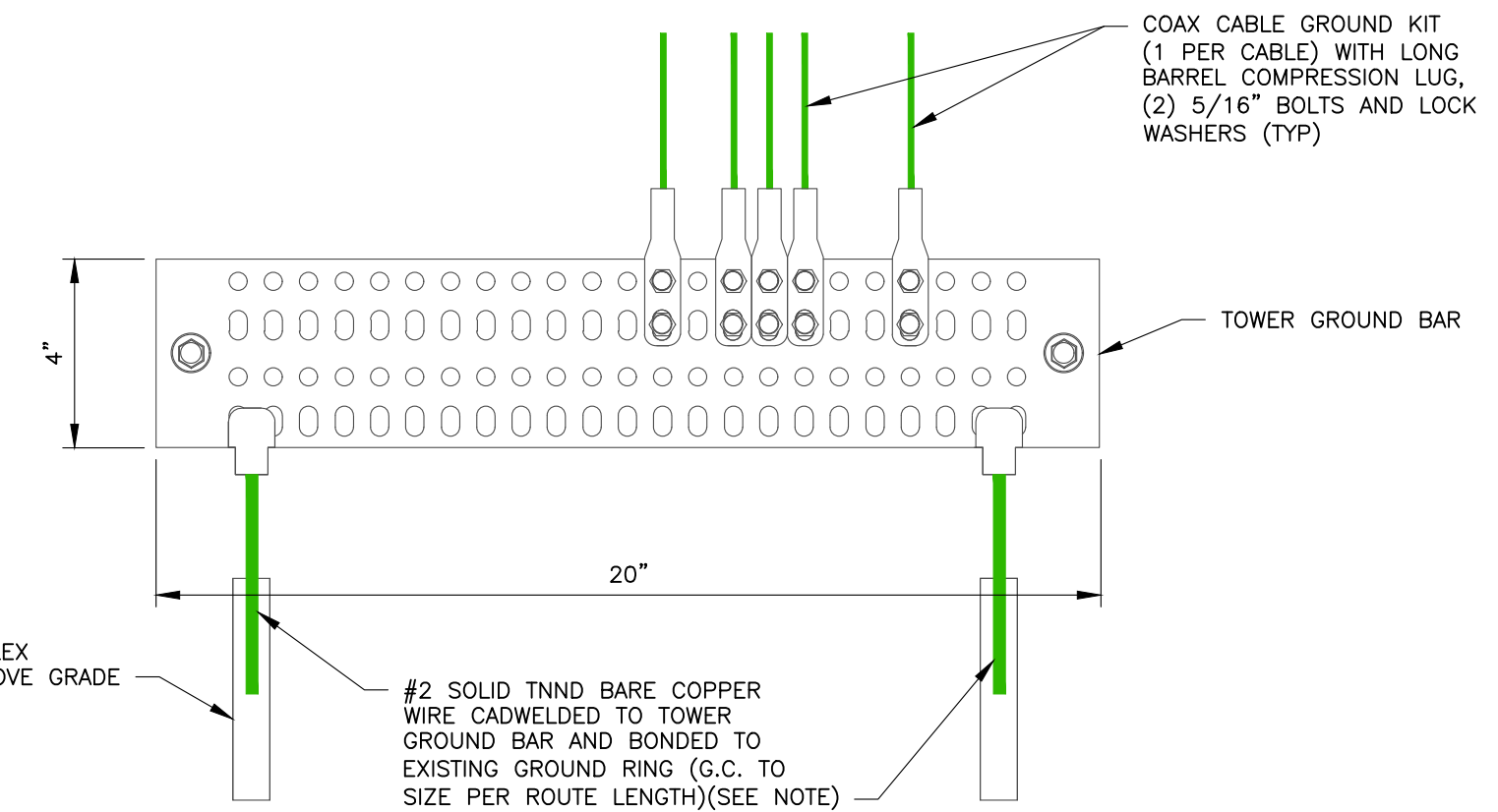
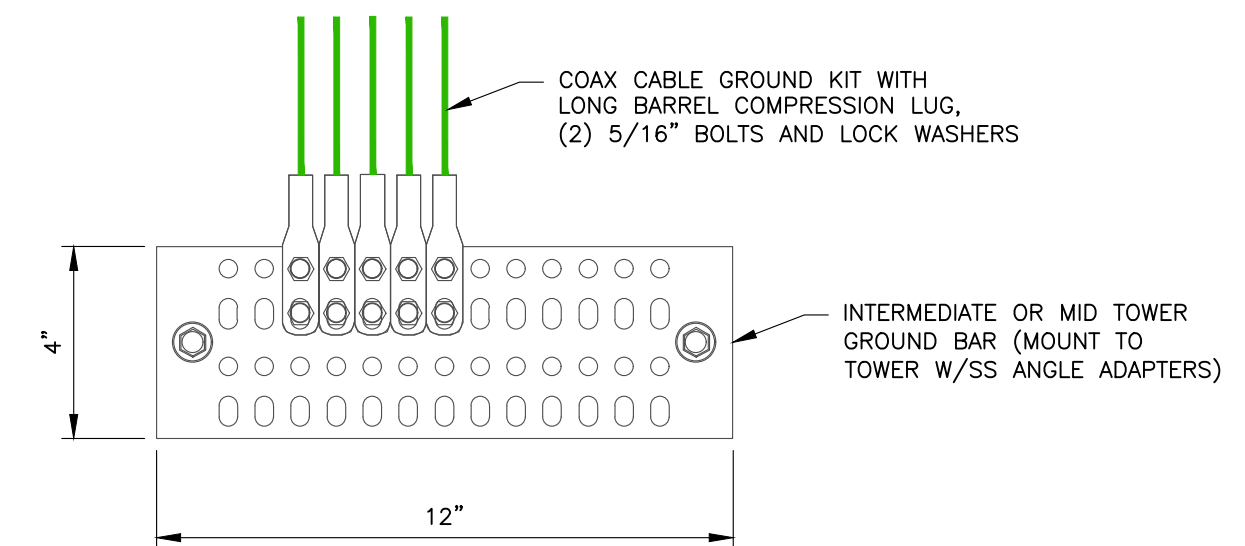
2 COAX CABLE GROUND KIT DETAIL
 G502 SCALE: NTS



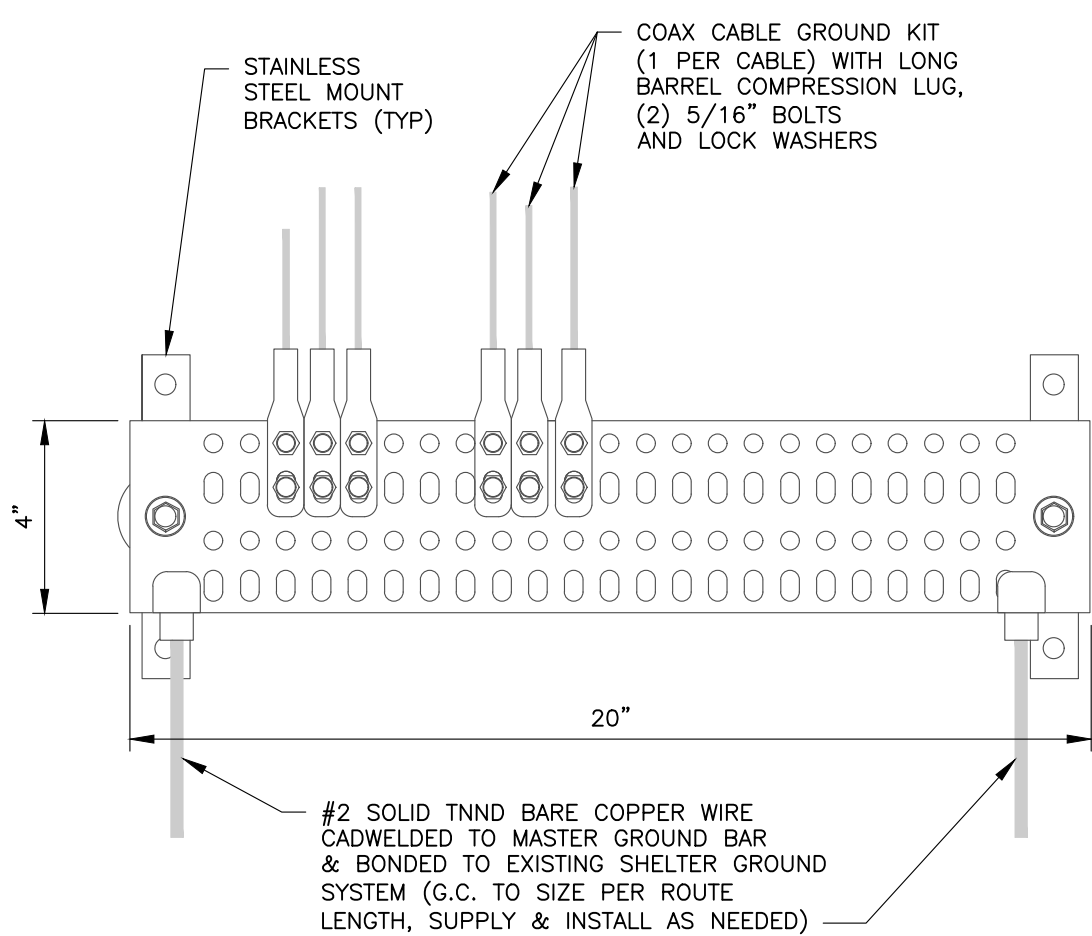
3 INTERIOR GROUND BAR (IGB)
 G502 SCALE: NTS



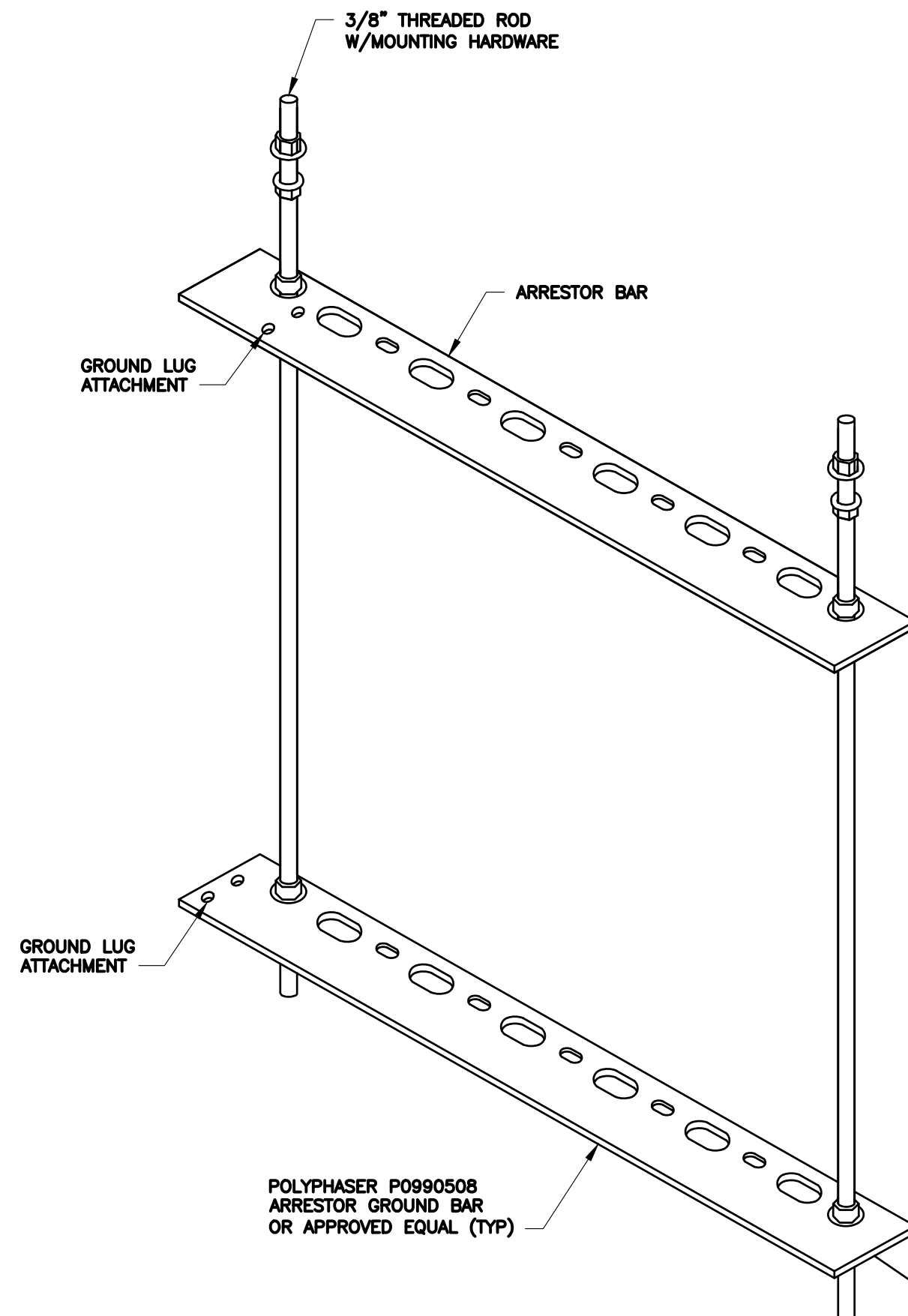
NOTE:
 MID TOWER GROUND BAR SHALL BE INSTALLED IF TOWER IS GREATER THAN 200 FEET IN HEIGHT WITH ADDITIONAL TOWER GROUND BARS AS REQUIRED TO MAINTAIN A MAXIMUM SPACING OF 200 FEET BETWEEN ANY TWO TOWER GROUND BARS. INTERMEDIATE TOWER GROUND BARS SHALL BE INSTALLED IN HIGH LIGHTNING ACTIVITY AREAS WITH A SPACING BETWEEN 50 TO 75 FEET.



6 ANTENNA GROUND BAR (AGB) MID GROUND BAR (MGB) & TOWER GROUND BAR (TGB)
 G502 SCALE: NTS



4 EXTERIOR GROUND BAR (EGB)
 G502 SCALE: NTS



5 POLYPHASE SURGE ARRESTOR RACK DETAIL
 G502 SCALE: NTS

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