

CONSULTANT TEAM

PROJECT CONSULTANT: TERRA CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
(847) 698-6400

SURVEYOR: WILLIAMS AND WORKS
549 OTTAWA AVE NW
GRAND RAPIDS, MI 49503
(616) 224-1500

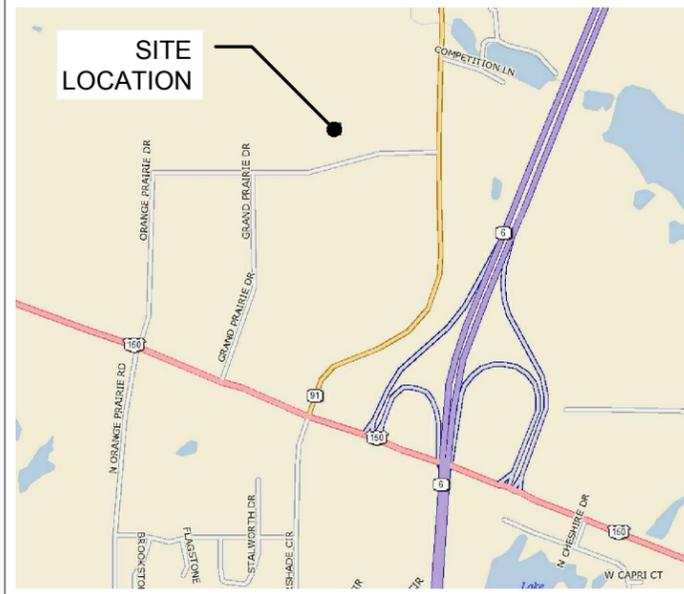
PROJECT TYPE

PROPOSED LESSEE ANTENNAS MOUNTED ON A NEW MONOPOLE TOWER WITH PROPOSED 11'-6" X 12'-0" EQUIPMENT PLATFORM AT BASE.

SITE COORDINATES:
LATITUDE: 40° 46' 59.71" N (1A CERTIFICATION)
LONGITUDE: 89° 40' 23.19" W (1A CERTIFICATION)
ELEVATION: ±688' (1A)

DRIVING DIRECTIONS:
FROM LESSEE OFFICE: MERGE ONTO I-55 S VIA THE RAMP ON THE LEFT TOWARD ST LOUIS. MERGE ONTO I-80 W VIA EXIT 250B TOWARD IOWA. MERGE ONTO I-39 S/US-51 S VIA EXIT 79A TOWARD BLOOMINGTON/NORMAL. TAKE THE IL-18 EXIT, EXIT 41, TOWARD HENRY/STREATOR. MERGE ONTO IL-18 TOWARD HENRY. TURN LEFT ONTO STATE ROUTE 26/IL-26. CONTINUE TO FOLLOW IL-26. TURN RIGHT ONTO 5TH ST/IL-17. CONTINUE TO FOLLOW IL-17. TURN LEFT ONTO S RAILROAD ST/IL-29. CONTINUE TO FOLLOW IL-29. TURN RIGHT ONTO IL-6 S. TAKE THE US-150/WAR MEMORIAL DR EXIT, EXIT 2, TOWARD KICKAPOO. MERGE ONTO W WAR MEMORIAL DR/US-150 W TOWARD KICKAPOO. TAKE THE 1ST RIGHT ONTO STATE ROUTE 91/IL-91. TURN LEFT ONTO W AMERICAN PRAIRIE DR. DESTINATION WILL BE ON THE RIGHT.

VICINITY MAP N.T.S.



REGIONAL MAP N.T.S.



APPROVALS

REAL ESTATE: _____
RF: _____
CONSTRUCTION: _____
OPERATIONS: _____
EQUIPMENT ENGINEERING: _____

PROJECT INFORMATION

UTILITIES: POWER: AMEREN FIBER: PEG
MICHELLE MCIRVIN MIKE GRIFFIN
(309) 693-4879 (214) 620-4245
PREMISE # 116302520

ZONING: C-2

OCCUPANCY: UNINHABITED

CONSTRUCTION TYPE: RAW LAND

PROPERTY OWNER: NORTHWEST PEORIA RETAIL DEVELOPMENT, L.P.
2020 W. WAR MEMORIAL DR. #103
PEORIA, IL 61614

APPLICANT: CENTRAL STATES TOWER III, LLC
323 SOUTH HALE STREET, SUITE 100
WHEATON, IL 60187

SHEET DRAWING INDEX REVISION

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REVISIONS

NO.	DESCRIPTION	DATE	BY
1.	REVISED PER POWER COORDINATION	12/28/15	JTM
2.	ISSUED FOR FIBER COORDINATION	01/18/16	MT
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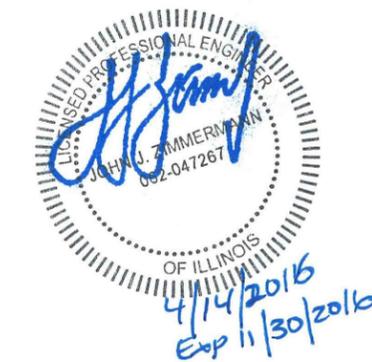


CENTRAL STATES TOWER III, LLC

323 SOUTH HALE STREET
SUITE 100
WHEATON, IL 60187



1515 WOODFIELD ROAD, SUITE 1400
SCHAUMBURG, ILLINOIS 60173
LOCATION NUMBER: 313801
SITE NAME: SHOPPES OF GRAND PRAIRIE



SITE NUMBER: IL-00-5999

SITE NAME: SHOPPES OF GRAND PRAIRIE

**W AMERICAN PRAIRIE DR
PEORIA, IL 61615**



**IL-00-5999
SHOPPES OF GRAND PRAIRIE**

W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

LEGEND

- △ - TRAVERSE POINT
- ▲ - WELL
- ⬮ - HIGHWAY
- ⊕ - MONUMENT
- ⊠ - MONUMENT BOX
- - RIGHT OF WAY MARKER
- - SET WOODSTAKE
- + CUT - XCUT
- PK - PK NAIL
- - FOUND IRON STAKE
- - SET IRON STAKE
- SIGN
- RR - RR SIGN
- ⊖ - GUY POLE
- ⊖ - GUY ANCHOR
- ⊖ - UTILITY POLE
- ⊖ - LIGHT POLE
- ⊖ - ORNAMENTAL LIGHT POLE
- ⊖ - POST
- ⊖ - U.G. UTILITY MARKER
- SB#BORE
- - SOIL BORING
- ⊠ - MAILBOX
- ⊠ - SATELLITE DISH
- - HAND HOLE
- ⊠ - AC UNIT
- ⊠ - U.G. UTILITY MARKER
- ⊠ - FIRE HYDRANT
- ⊠ - PIV - POST INDICATOR VALVE
- ⊠ - WATER VALVE
- ⊠ - GAS VALVE
- ⊠ - UST FILL PORT
- ⊠ - GAS PUMP
- ⊠ - GAS METER
- ⊠ - WATER METER
- ⊠ - TELEPHONE RISER
- ⊠ - ELECTRIC METER
- ⊠ - CABLE TV RISER
- ⊠ - CATCH BASIN
- ⊠ - ROUND CATCH BASIN
- ⊠ - UTILITY MANHOLE
- ⊠ - STORM MANHOLE
- ⊠ - SANITARY MANHOLE
- ⊠ - ELECTRIC MANHOLE
- ⊠ - TELEPHONE MANHOLE
- ⊠ - WATER MANHOLE
- ⊠ - HANDICAP PARKING SPACE
- ⊠ - SHRUB
- ⊠ - TREE
- ⊠ - PINE TREE
- (ELEV.) - EXISTING CONTOURS
- TELEPHONE UTILITY LINE
- ELECTRIC UTILITY LINE
- WATER UTILITY LINE
- GAS UTILITY LINE
- STEAM UTILITY LINE
- STORM UTILITY LINE
- SANITARY UTILITY LINE
- FIBER OPTIC UTILITY LINE
- OVERHEAD UTILITY LINE
- FENCE LINE
- GUARD RAIL

All utilities as shown are approximate locations derived from actual measurements and available records. They should not be interpreted to be in exact location nor should it be assumed that they are the only utilities in the area.

OPERATES 24 HOURS
A DAY 365 DAYS A YEAR

Call Before You Dig

JULIE
ILLINOIS ONE CALL SYSTEM

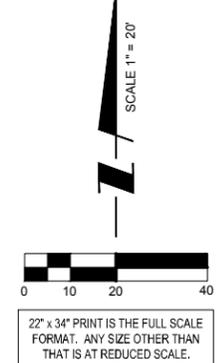
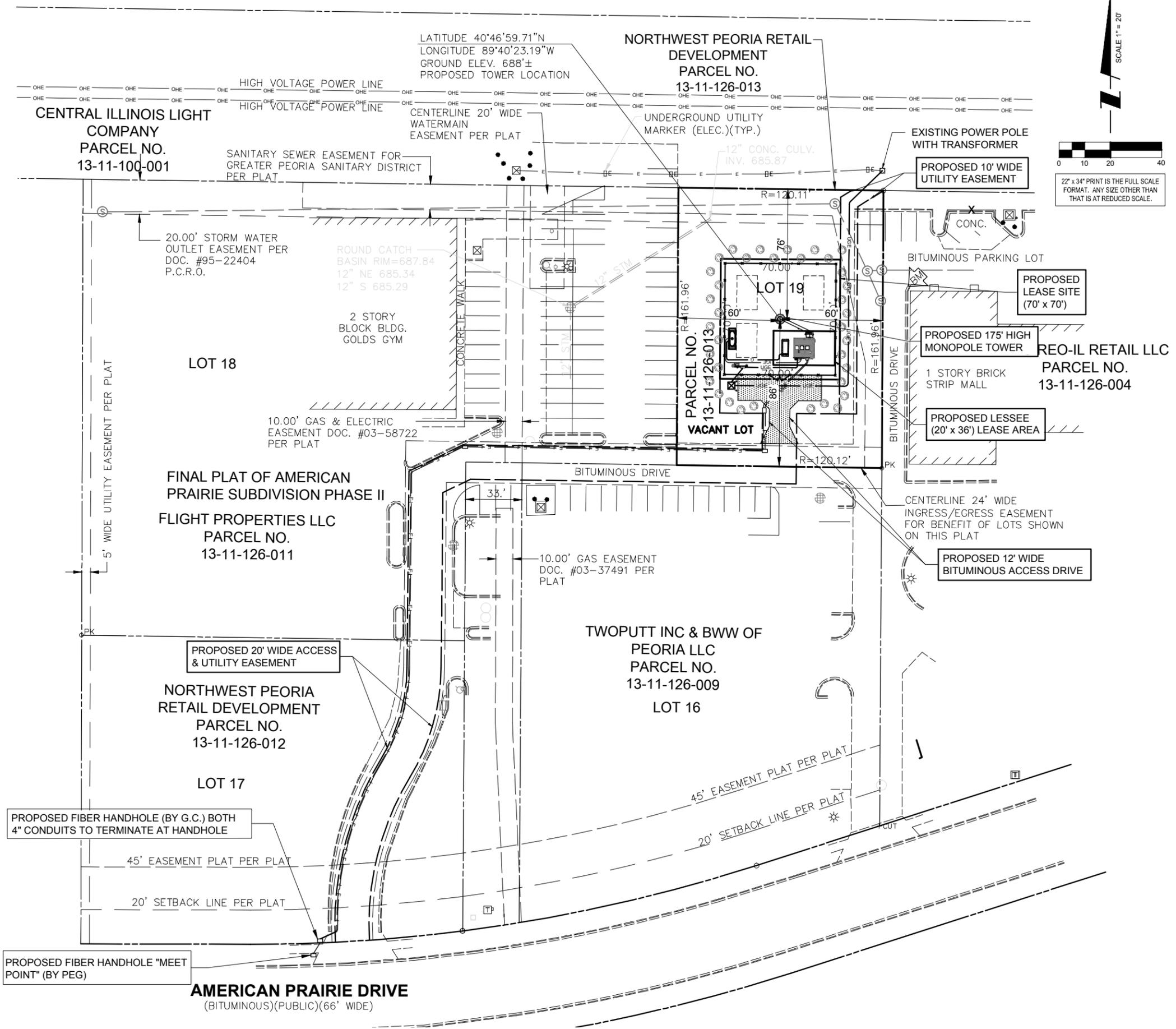
CALL JULIE TOLL FREE
1(800) 892-0123
48 HOURS BEFORE YOU DIG

SURVEY PROVIDED BY:

Williams & Works
engineers, planners, surveyors

616.224.1500 phone · 616.224.1501 facsimile
549 Ottawa Ave NW · Grand Rapids, MI 49503

BM#1) ELEV. 688.96
BOX CUT ON TOP OF CONCRETE CURB
NORTHWEST CORNER OF STRIP MALL.



CST

CENTRAL STATES TOWER III, LLC

TERRA
CONSTRUCTING GROUP, LTD.

600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

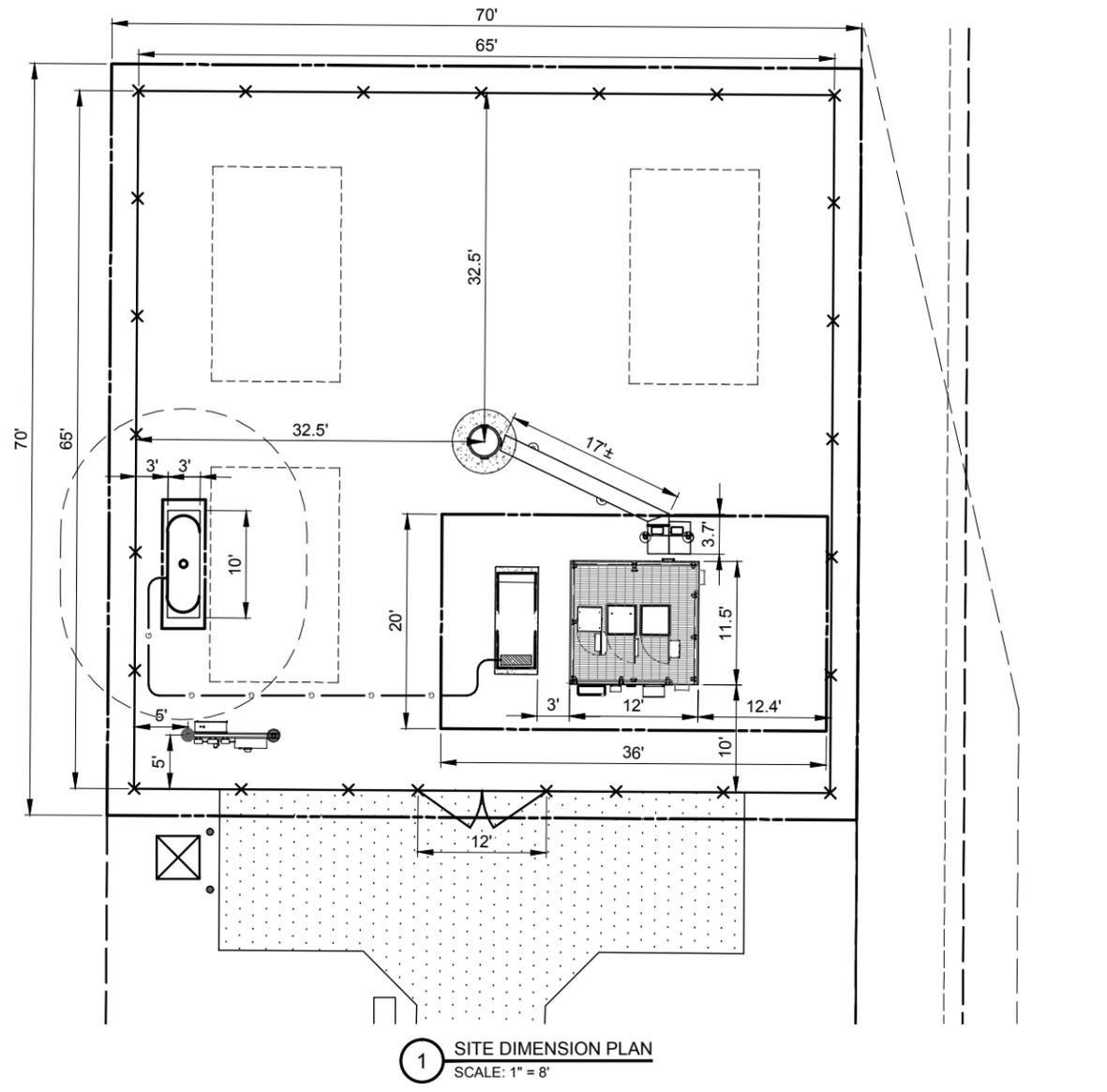
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IL-00-5999
SHOPPES OF GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY:	PP
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SHEET TITLE
LOCATION PLAN

SHEET NUMBER
LP



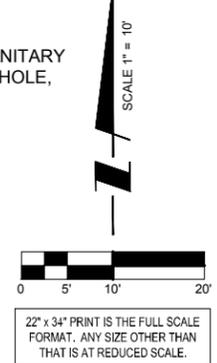
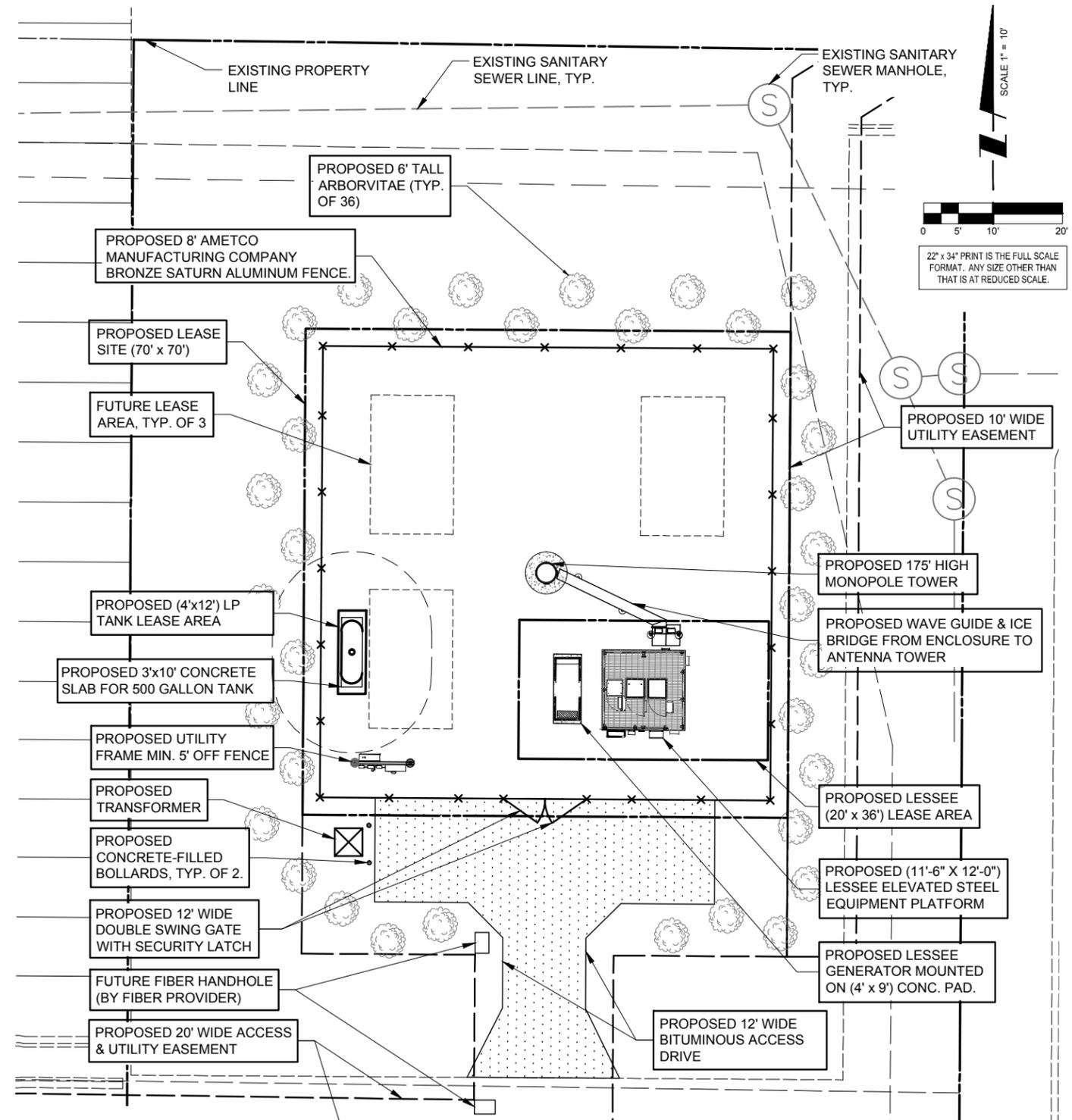
1 SITE DIMENSION PLAN
SCALE: 1" = 8'



NOTE: PROPERTY OUTSIDE THE LEASE AREA NEEDS TO BE SODDED & SEEDED.

NOTE: WIRELESS TELECOMMUNICATIONS FACILITIES SHALL CONTAIN A SIGN NO LARGER THAN FOUR (4) SQUARE FEET IN ORDER TO PROVIDE ADEQUATE NOTIFICATION TO PERSONS IN THE IMMEDIATE AREA OF THE PRESENCE OF RF RADIATION OR TO CONTROL EXPOSURE TO RF RADIATION WITHIN A GIVEN AREA. A SIGN OF THE SAME SIZE IS ALSO TO BE INSTALLED TO CONTAIN THE NAME(S) OF THE OWNER(S) AND OPERATOR(S) OF THE ANTENNA(S) AS WELL AS EMERGENCY PHONE NUMBER(S). THE SIGN SHALL BE ON THE EQUIPMENT SHELTER OR CABINET OF THE APPLICANT AND BE VISIBLE FROM THE ACCESS POINT OF THE SITE AND MUST IDENTIFY THE EQUIPMENT OWNER OF THE SHELTER OR CABINET. ON TOWER SITES, AN FCC REGISTRATION SITE AS APPLICABLE IS ALSO TO BE PRESENT. THE SIGNS SHALL NOT BE LIGHTED, UNLESS APPLICABLE LAW, RULE OR REGULATION REQUIRES LIGHTING. NO OTHER SIGNAGE, INCLUDING ADVERTISING, SHALL BE PERMITTED.

CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT. CONTRACTOR SHALL PHOTOGRAPH AND VIDEOTAPE EXISTING PAVEMENT PRIOR TO CONSTRUCTION. ANY DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPLACED TO EXISTING OR BETTER CONDITION AT NO ADDITIONAL COST.



PAVEMENT MATERIAL

ACCESS ROAD (HATCHED)
124 ± S.Y.
8" COMPACTED AGGREGATE BASE COURSE, CA-6
MIRAFI 500X SUBGRADE GEOTEXTILE FABRIC OR APPROVED EQUAL

LEASE SITE
545 ± S.Y.
8" COMPACTED AGGREGATE BASE COURSE, WITH 3/4" CRUSHED AGGREGATE, NO FINES. OR APPROVED EQUAL. MIRAFI 500X SUBGRADE GEOTEXTILE FABRIC OR APPROVED EQUAL

THE CONTRACTOR SHALL INCLUDE AS PART OF THE BID, THE COST OF REMOVAL OF ANY SURFACE VEGETATION AND ORGANIC SOILS OR OTHER DELETERIOUS MATERIALS AND THE REPLACEMENT WITH ENGINEERED BACKFILL FOR THE AGGREGATE ACCESS DRIVE AND LEASE SITE, IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

THE CONTRACTOR WILL, UPON BECOMING AWARE OF SUBSURFACE OR LATENT PHYSICAL CONDITIONS DIFFERING FROM THOSE DISCLOSED BY THE ORIGINAL SOIL INVESTIGATION WORK, PROMPTLY NOTIFY THE OWNER VERBALLY AND IN WRITING, AS TO THE NATURE OF THE DIFFERING CONDITIONS. NO CLAIM BY THE CONTRACTOR FOR ANY CONDITIONS DIFFERING FROM THOSE ANTICIPATED IN THE PLANS AND SPECIFICATIONS AND DISCLOSED BY THE SOIL STUDIES WILL BE ALLOWED UNLESS THE CONTRACTOR HAS SO NOTIFIED THE OWNER, VERBALLY AND IN WRITING, AS REQUIRED ABOVE, OF SUCH DIFFERING SUBSURFACE CONDITIONS.

BEFORE AND DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL AS NECESSARY IN THE FORM OF SILT FENCES FOR THE SITE AND BALES AROUND ANY EXISTING MANHOLES, INLETS, OR CATCHBASINS SUSCEPTIBLE TO EROSION. EROSION CONTROL MEASURES SHALL BE PERIODICALLY INSPECTED TO ENSURE PROPER FUNCTION. EROSION CONTROL SHALL BE REMOVED UPON COMPLETION OF WORK.

CONTRACTOR TO PROVIDE APPROXIMATE 100'x100' STAGING AREA AND TEMPORARY ROAD. CONTRACTOR SHALL COORDINATE WITH ANTENNA CONTRACTOR, A STAGING AREA AND TEMPORARY ROAD THAT IS ACCEPTABLE TO THE OWNER. STAGING AREA AND TEMPORARY ROAD SHALL BE RESTORED TO EXISTING CONDITIONS AS NECESSARY UPON COMPLETION OF THE PROJECT.



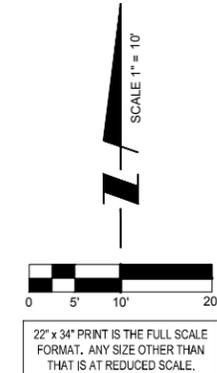
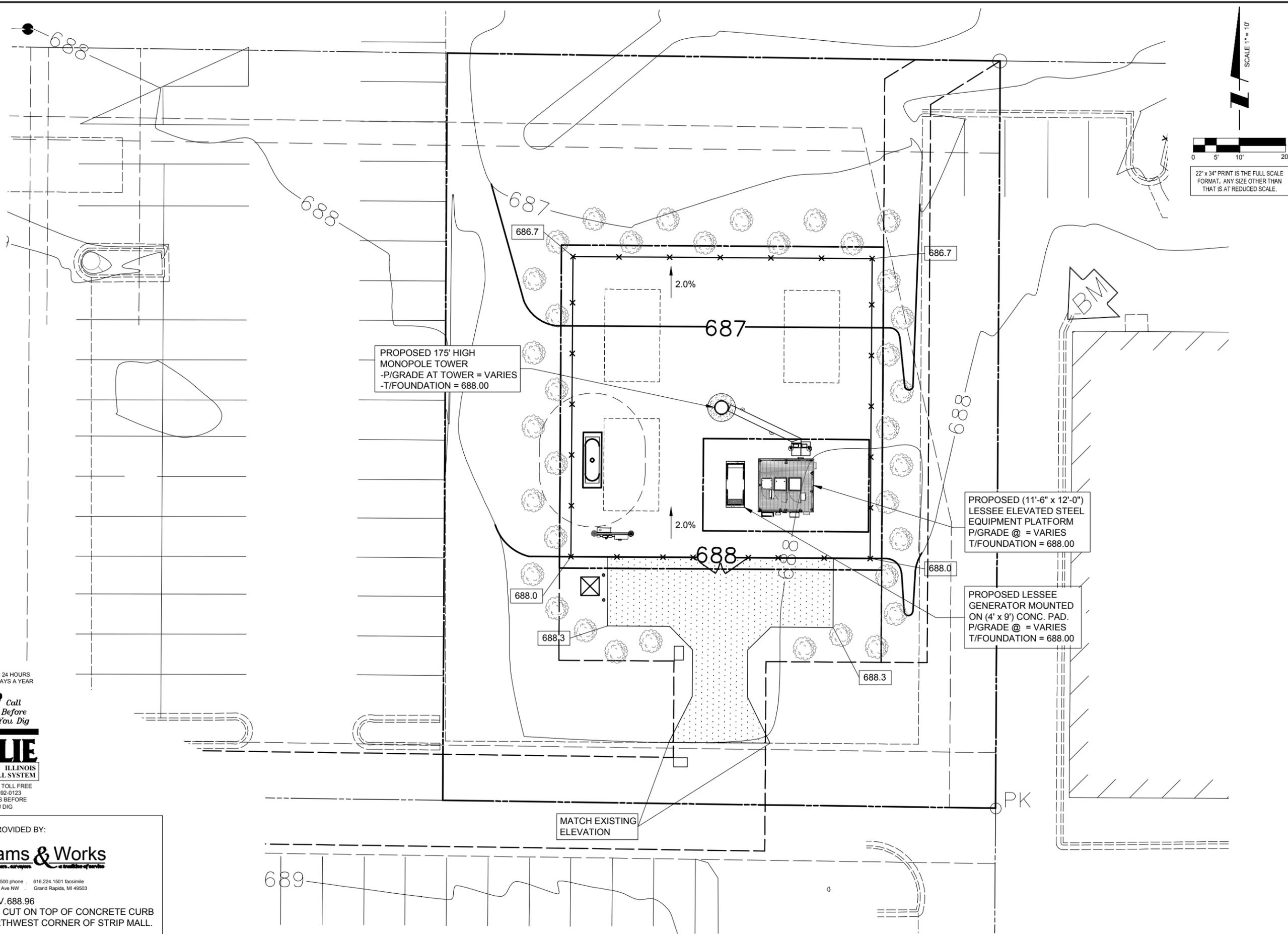
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IL-00-5999
SHOPPES OF GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY: PP
CHECKED BY: TAZ
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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-1



PROPOSED 175' HIGH
MONOPOLE TOWER
-P/GRADE AT TOWER = VARIES
-T/FOUNDATION = 688.00

PROPOSED (11'-6" x 12'-0")
LESSEE ELEVATED STEEL
EQUIPMENT PLATFORM
P/GRADE @ = VARIES
T/FOUNDATION = 688.00

PROPOSED LESSEE
GENERATOR MOUNTED
ON (4' x 9') CONC. PAD.
P/GRADE @ = VARIES
T/FOUNDATION = 688.00

MATCH EXISTING
ELEVATION

OPERATES 24 HOURS
A DAY 365 DAYS A YEAR



SURVEY PROVIDED BY:
Williams & Works
engineers, planners, surveyors
616.224.1500 phone . 616.224.1501 facsimile
549 Ottawa Ave NW . Grand Rapids, MI 49503
BM#1) ELEV. 688.96
BOX CUT ON TOP OF CONCRETE CURB
NORTHWEST CORNER OF STRIP MALL.



CENTRAL STATES TOWER III, LLC



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SHOPPES OF
GRAND PRAIRIE

W AMERICAN PRAIRIE DR
PEORIA, IL 61615

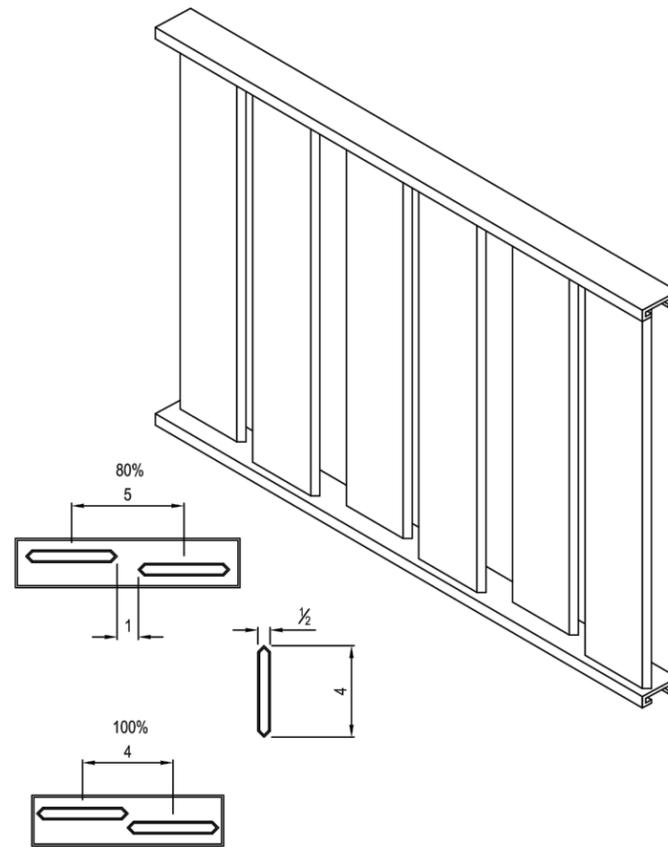
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SHEET TITLE
SITE GRADING PLAN
(SHEET 1 OF 1)

SHEET NUMBER
C-2



AMETCO MANUFACTURING CORPORATION
 4326 HAMANN PARKWAY P.O. BOX 1210
 WILLOUGHBY, OHIO 44096
 TOLL FREE: 1-800-321-7042
 PHONE: (440) 951-4300
 FAX: (440) 951-2542
 www.ametco.com



NOTES:

1. THE 4" ALUMINUM EXTRUSION CAN RUN EITHER HORIZORTALLY OR VERTICALLY.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
4. AMETCO'S ALUMINIUM FENCING SYSTEM IS 100% MANUFACTURED IN THE UNITED STATES.
5. DO NOT SCALE DRAWINGS.
6. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 048-088



ALUMINUM FENCE SYSTEMS

SATURN DESIGN ALUMINUM FENCE SYSTEM

048-088

PROTECTED BY COPYRIGHT - 05/24/06

www.CADdetails.com



CENTRAL STATES TOWER III, LLC



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SHOPPES OF
GRAND PRAIRIE

W AMERICAN PRAIRIE DR
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SHEET TITLE
 SITE DETAILS

SHEET NUMBER

C-3

1 AMETCO SATURN ORNAMENTAL ALUMINUM FENCE (FOR REFERENCE ONLY)
 SCALE: N.T.S.

SITE WORK GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY CONTRACTOR. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF CONTRACTOR, OWNER AND/OR LOCAL UTILITIES.
6. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION
7. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
8. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
9. 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.
10. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
11. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
12. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
13. ALL REMOVED SPOILS TO BE UTILIZED FOR BACKFILL SHALL BE PROTECTED FROM FREEZE

STRUCTURAL STEEL NOTES:

1. ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND IN ACCORDANCE WITH ASTM A36 UNLESS OTHERWISE NOTED.
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL BE ASTM A325 BEARING TYPE (3/4"Ø) CONNECTIONS AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
5. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS.

CONCRETE AND REINFORCING STEEL NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. SLAB FOUNDATION DESIGN ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
 CONCRETE CAST AGAINST EARTH.....3 IN.
 CONCRETE EXPOSED TO EARTH OR WEATHER:
 #6 AND LARGER2 IN.
 #5 AND SMALLER & WWF1 1/2 IN.
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
 SLAB AND WALL3/4 IN.
 BEAMS AND COLUMNS1 1/2 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES ON CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
7. COLD WEATHER CONCRETING (BELOW 40°). SHALL COMPLY WITH ACI 301. CONTRACTOR SHALL NEVER PLACE CONCRETE ON FROZEN SUBGRADE AND REBAR TEMPERATURE SHALL NEVER BE BELLOW 32°F DURING CONCRETE PLACEMENT. STEEL TEMPERATURE CAN BE RAISED BY BATHING IT IN WATER UNTIL ICE DOES NOT FORM ON BARS. CONCRETE MATERIALS MAY BE HEATED, BUT MIX TEMPERATURE SHALL BE BETWEEN 50°F & 70°F AT TIME OF PLACING. ALL CONCRETE EXPOSED TO FREEZING DURING PLACEMENT OR DURING SERVICE LIFE SHALL BE AIR ENTRAINED. INSULATED BLANKETS (OR APPROVED EQUAL METHOD) SHALL BE PLACED OVER FRESHLY FINISHED CONCRETE TO ALLOW PROPER CURING/COMBAT FREEZING. THE CONCRETE TEMP. SHOULD BE MAINTAINED AT 50°F FOR FIVE (5) DAYS OR 70° FOR THREE (3) DAYS. CONCRETE SHALL NOT BE ALLOWED TO FREEZE BEFORE IT HAS REACHED A STRENGTH OF AT LEAST 500 PSI

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
 CONTRACTOR - TO BE DETERMINED
 SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
 OWNER - CENTRAL STATES TOWERS
 OEM - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO SCALE AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
8. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING.
9. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
10. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
11. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
12. CONSTRUCTION SHALL COMPLY WITH "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF CINGULAR GSM SITES."

APPLICABLE BUILDING CODES AND STANDARDS:

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

2003 INTERNATIONAL BUILDING CODE (2003 IBC OR LATEST EDITION)
 2008 NATIONAL ELECTRICAL CODE (NEC 2008)
 UNDERWRITER LABORATORIES APPROVED ELECTRICAL PRODUCTS LIFE SAFETY CODE NFPA-101
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING
 AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD.
 TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) EIA-222-G, EXPOSURE CATEGORY C,
 STRUCTURE CLASS II, TOPO CATEGORY 1. STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA
 TOWER AND ANTENNA SUPPORTING STRUCTURES.
 INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH
 RESISTIVITY, GROUND IMPEDANCE, AND SURFACE POTENTIALS OF A GROUND SYSTEM
 IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRONICS
 IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS
 (FOR LOCATION CATEGORY "C3" AND HIGH SYSTEM EXPOSURE")
 TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR
 TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENTS SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN GENERAL REQUIREMENTS AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.



CENTRAL STATES TOWER III, LLC



NO.	DESCRIPTION	DATE	BY	PP	JTM	MT	SEA	JTM	JTM	BTE
			REVISIONS							
1.	ISSUED FOR REVIEW	07/17/15								
2.	REVISED PER POWER COORDINATION	10/23/15								
3.	ISSUED FOR FIBER COORDINATION	12/28/15								
4.	UPDATED TO CABINET LAYOUT	01/18/16								
5.	UPDATE PER CLIENT COMMENTS	02/08/16								
6.	ISSUED FOR FINAL	03/22/16								
	REMOVED PLATFORM CANOPY	04/04/16								

IL-00-5999
**SHOPPES OF
 GRAND PRAIRIE**

W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
 GENERAL NOTES

SHEET NUMBER
C-4



CENTRAL STATES TOWER III, LLC



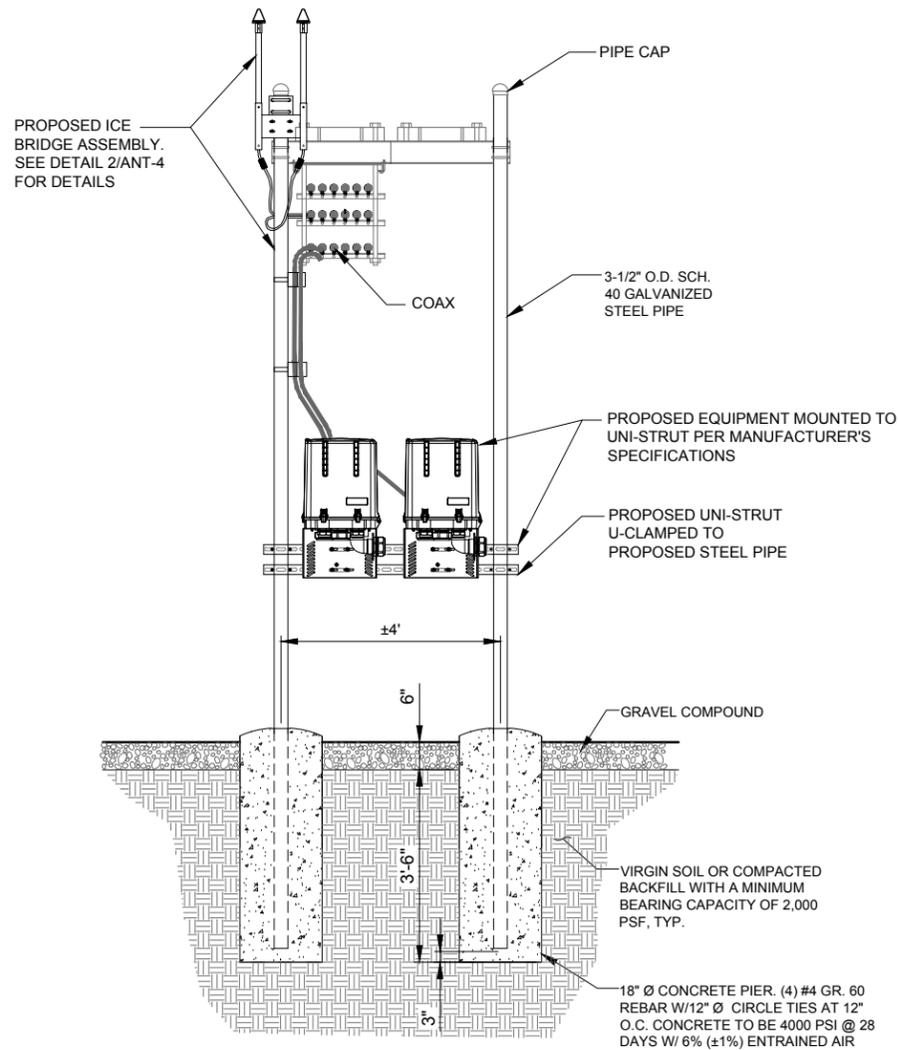
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3.	ISSUED FOR FIBER COORDINATION	12/28/15	MT
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6.	ISSUED FOR FINAL	03/22/16	JTM
	REMOVED PLATFORM CANOPY	04/04/16	BTE

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SHOPPES OF GRAND PRAIRIE
 W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

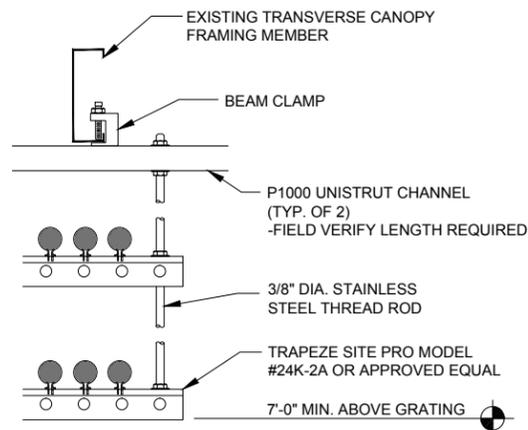
DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
SITE DETAILS

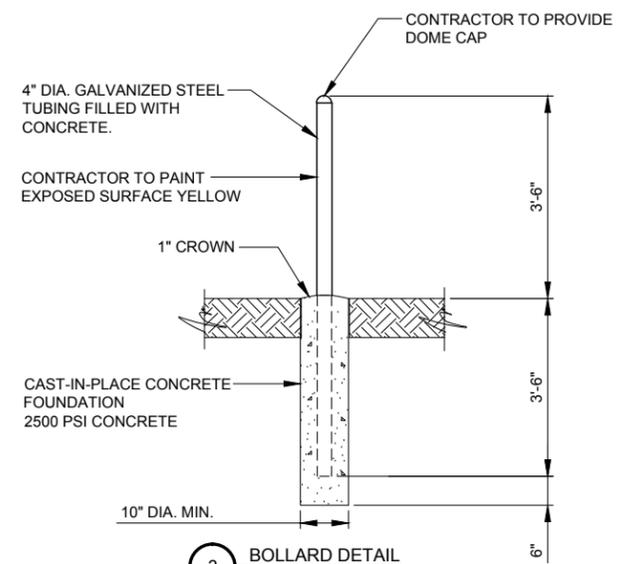
SHEET NUMBER
C-5



1 RAYCAP MOUNT DETAIL - IF APPLICABLE
 N.T.S.



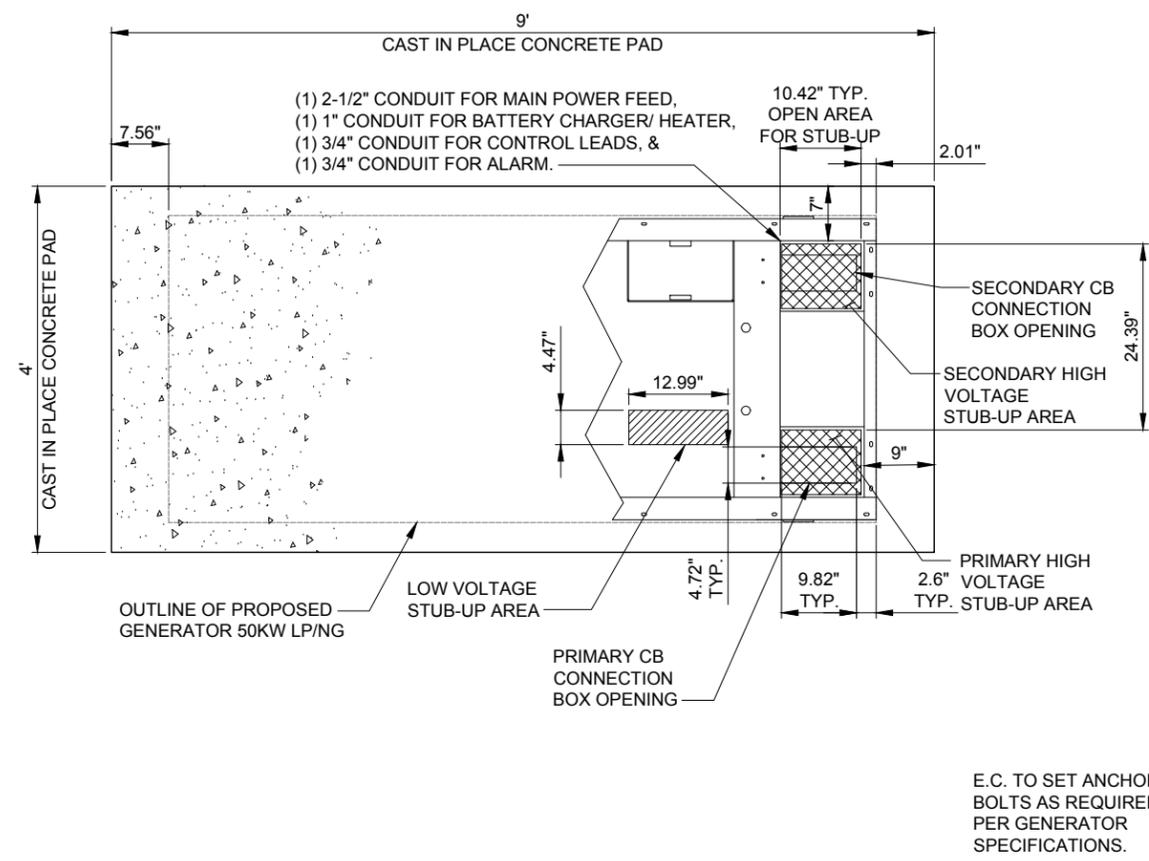
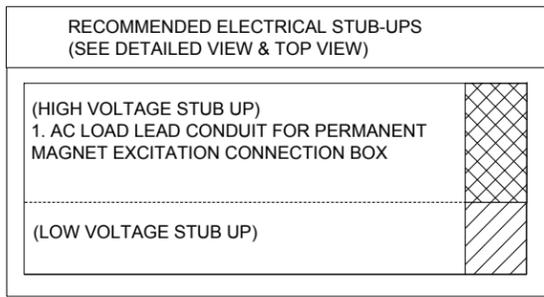
2 COAX TRAPEZE DETAIL (AT PLATFORM)
 N.T.S.



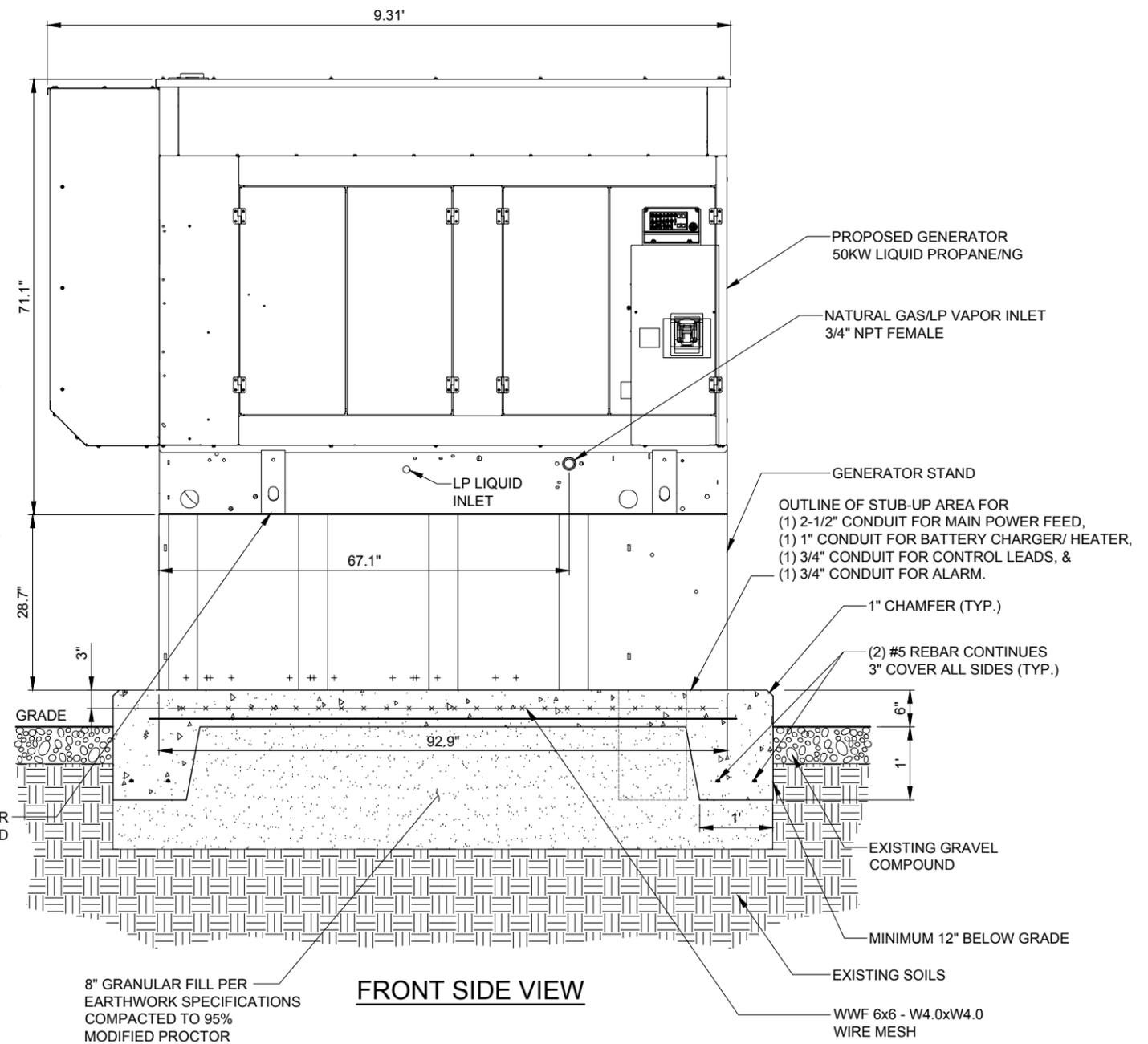
3 BOLLARD DETAIL
 N.T.S.

OPERATES 24 HOURS
 A DAY 365 DAYS A YEAR





1 TYPICAL GENERAC FOUNDATION DETAIL
SCALE: 1" = 1'



2 TYPICAL GENERAC FOUNDATION DETAIL
SCALE: 1" = 1'

NOTES:

- SEE GENERATOR MANUFACTURE'S DRAWINGS FOR PHYSICAL LOCATION OF FUEL LINES, CONTROL AND POWER INTERCONNECTIONS AND OTHER INTERFACES THAT ARE TO CAST INTO THE CONCRETE. THE PREFERRED METHOD IS TO BRING THE CONDUIT THROUGH THE PAD TO THE UNDERSIDE OF THE GENERATOR (MINIMIZES RODENT DAMAGE). FINISH CONNECTIONS WITH FLEXIBLE CONDUIT PER GENERATOR MANUFACTURES SPECS. RIGID CONDUITS SHALL BE SECURED TO THE EXISTING SLAB, THEN BURIED BETWEEN SLAB AND SHELTER.
- THE GENERATOR SHALL BE LOCATED A MIN 5' AWAY FROM A COMBUSTIBLE WALL.
-THE GENERATOR SHALL BE LOCATED A MIN OF 3' AWAY FROM A NON-COMBUSTIBLE WALL.

OPERATES 24 HOURS
A DAY 365 DAYS A YEAR



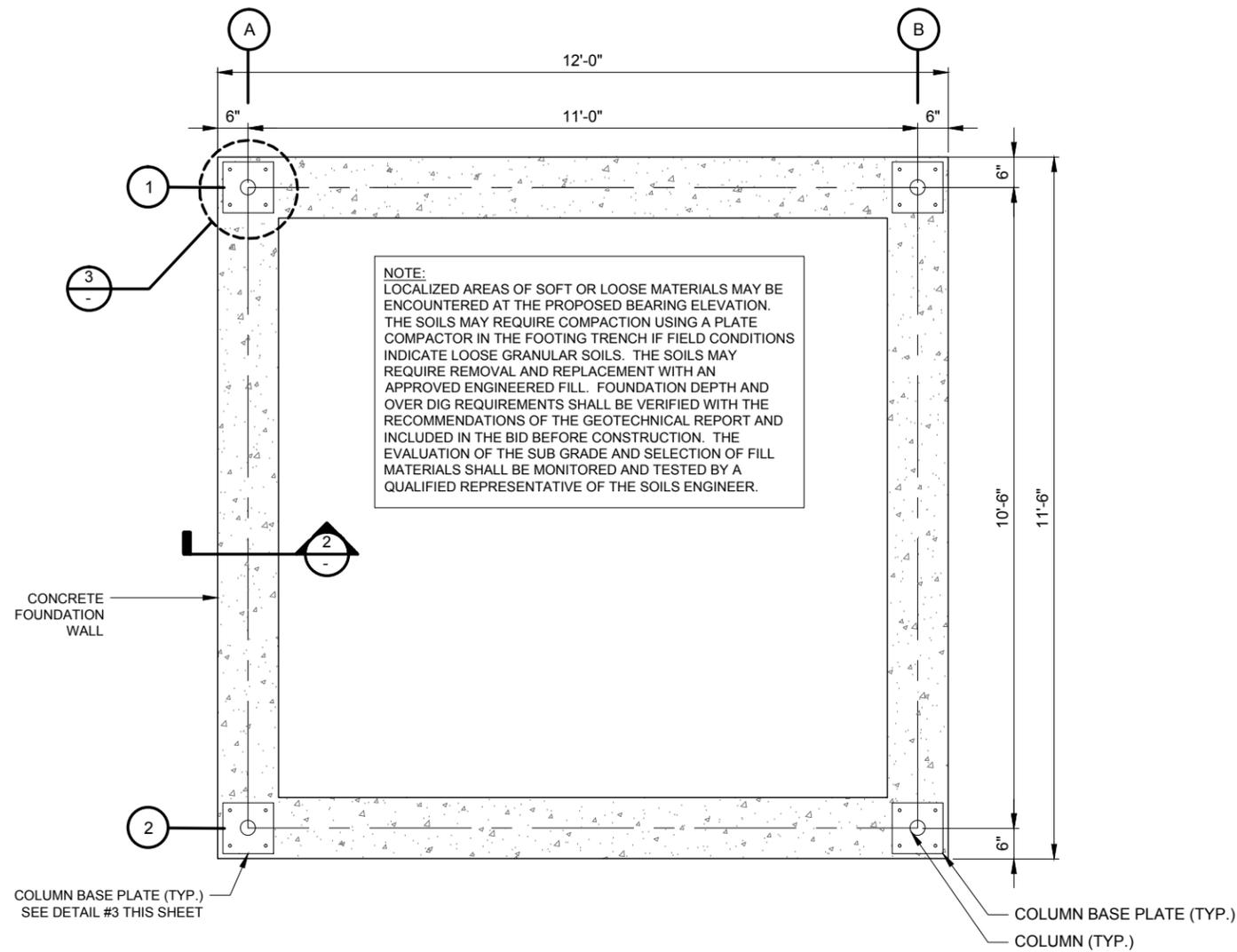
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2.	REVISED PER POWER COORDINATION	10/23/15								
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	REMOVED PLATFORM CANOPY	04/04/16								

IL-00-5999
SHOPPES OF
GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

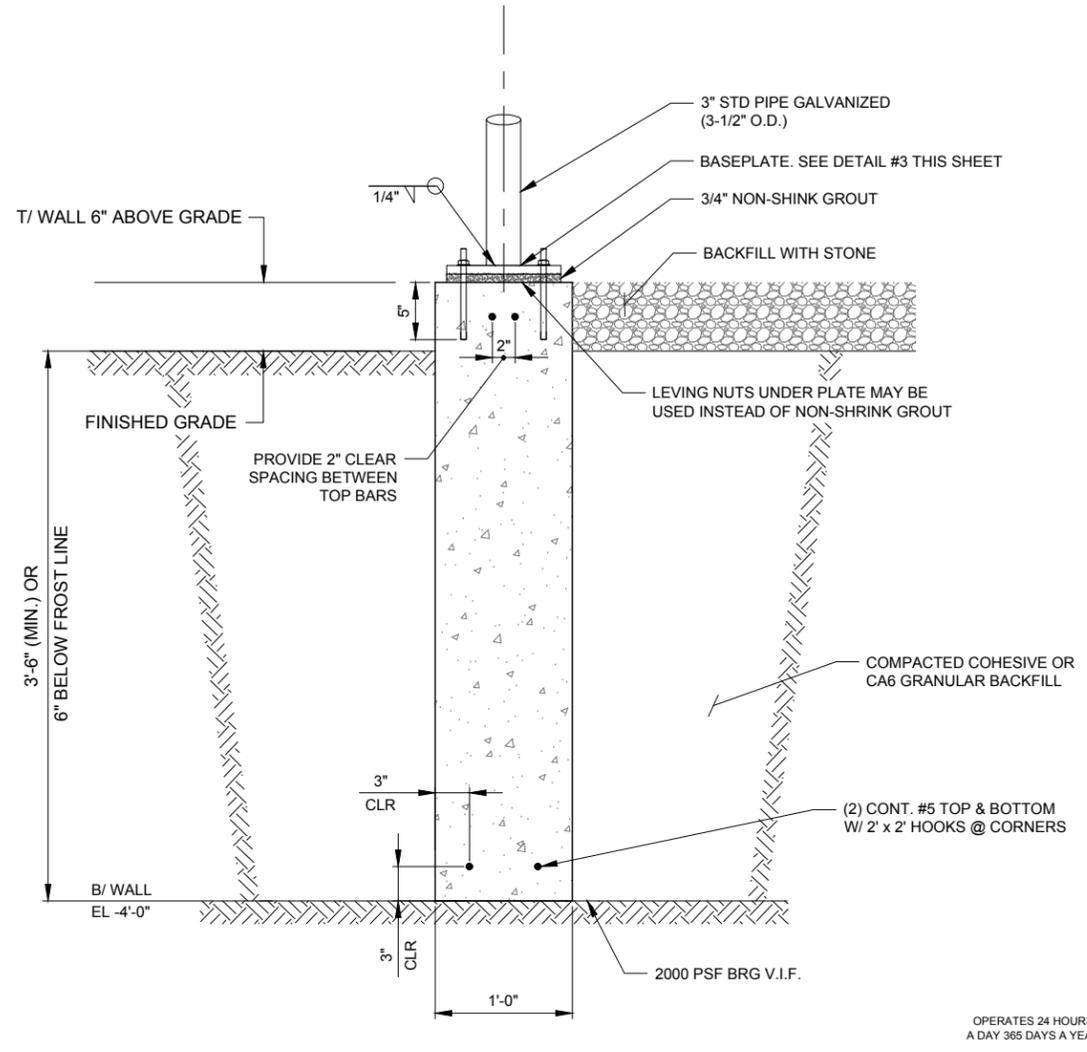
DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
GENERATOR
FOUNDATION DETAILS

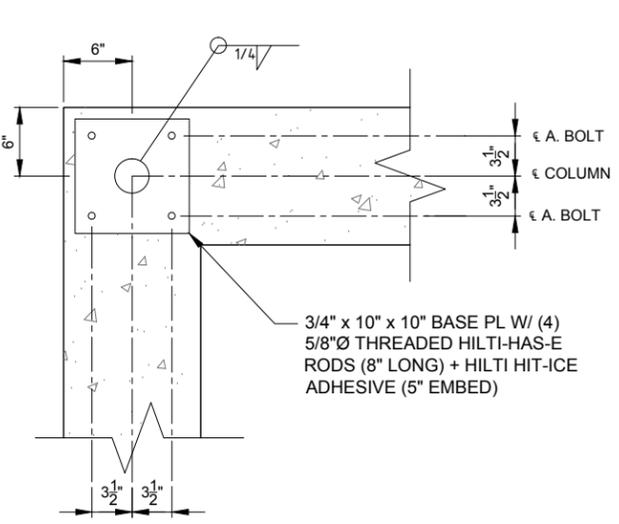
SHEET NUMBER
C-6



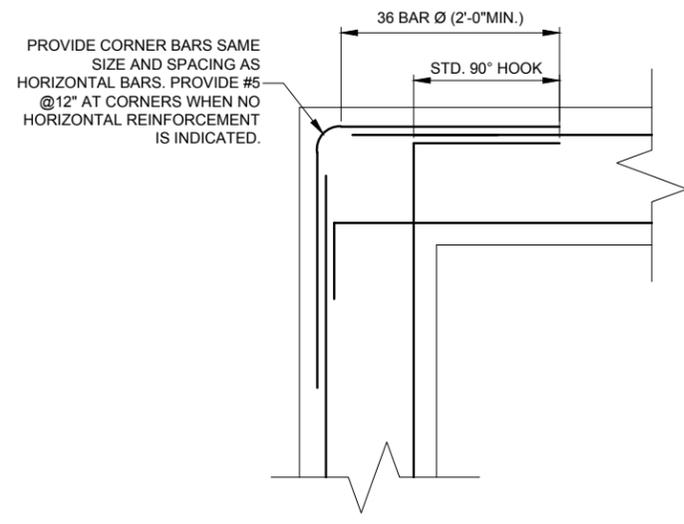
1 ELEVATED STEEL EQUIPMENT PLATFORM - FOUNDATION PLAN
SCALE: 3/4" = 1'-0"



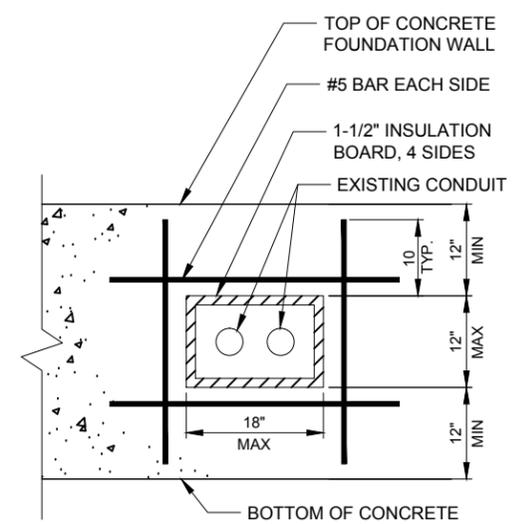
2 FOUNDATION WALL SECTION
SCALE: 1-1/2" = 1'-0"



3 COLUMN BASE PLATE DETAILS
SCALE: 1-1/2" = 1'-0"



4 CONCRETE WALL REINFORCEMENT DETAILS
SCALE: N.T.S.



5 SLEEVE DETAIL
N.T.S.

CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 AND ACI 301, LATEST EDITION. THESE DOCUMENTS SHALL BE AVAILABLE IN THE FIELD OFFICE.
- EXCEPT WHERE OTHERWISE INDICATED, CONCRETE SHALL BE NORMAL WEIGHT AND WITH MINIMUM 28-DAY COMPRESSIVE STRENGTHS OF F'c=4000 PSI. ALL EXTERIOR EXPOSED CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR CONTENT.
- REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- ALL PERIMETER WALL AND COLUMN FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISHED GRADES OR TO FROST WHICH EVER IS GREATER.
- CONCRETE MIX DESIGN SHALL BE SUBMITTED TO ARCHITECT / ENGINEER FOR REVIEW.
- ALL FOOTINGS TO BEAR ON MINIMUM NET ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF TO BE VERIFIED IN FIELD.

OPERATES 24 HOURS
A DAY 365 DAYS A YEAR

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		PP	07/17/15
1.	ISSUED FOR REVIEW	JTM	10/23/15
2.	REVISED PER POWER COORDINATION	MT	12/28/15
3.	ISSUED FOR FIBER COORDINATION	SEA	01/18/16
4.	UPDATED TO CABINET LAYOUT	JTM	02/08/16
5.	UPDATE PER CLIENT COMMENTS	JTM	03/22/16
6.	ISSUED FOR FINAL	BTE	04/04/16
	REMOVED PLATFORM CANOPY		

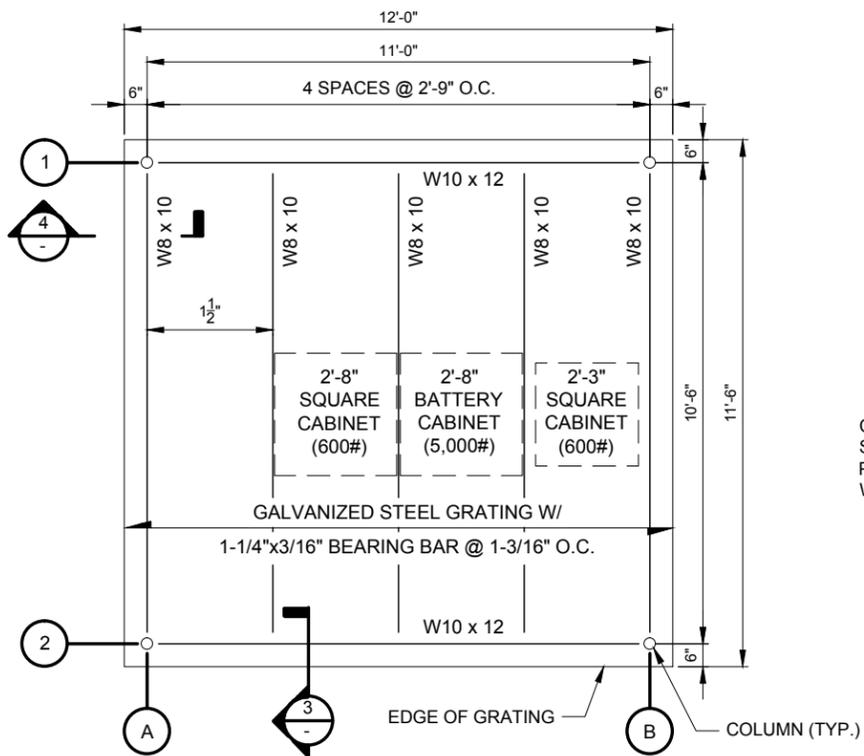
IL-00-5999
SHOPPES OF GRAND PRAIRIE

W AMERICAN PRAIRIE DR
PEORIA, IL 61615

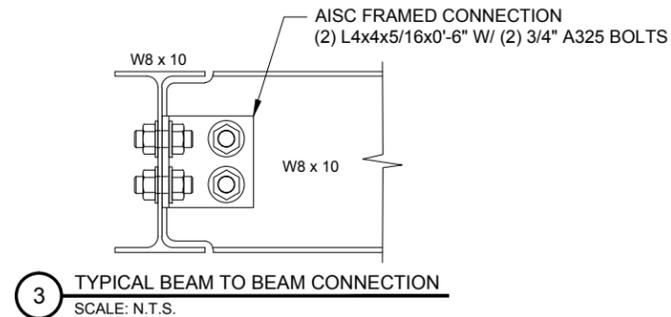
DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
ELEVATED STEEL EQUIPMENT PLATFORM FOUNDATION PLAN

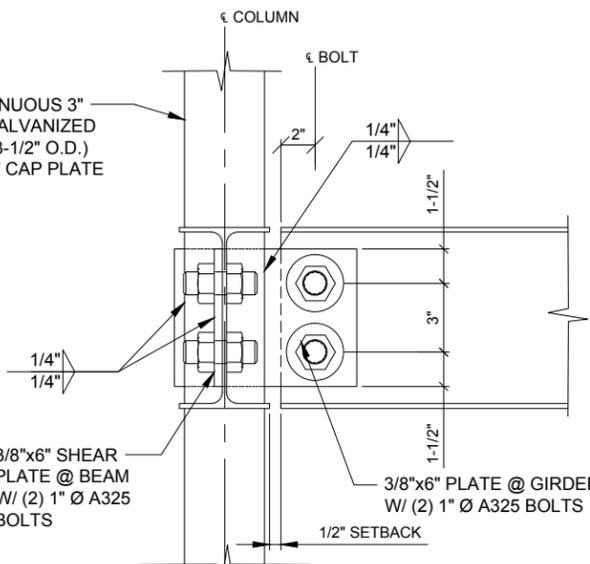
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C-7



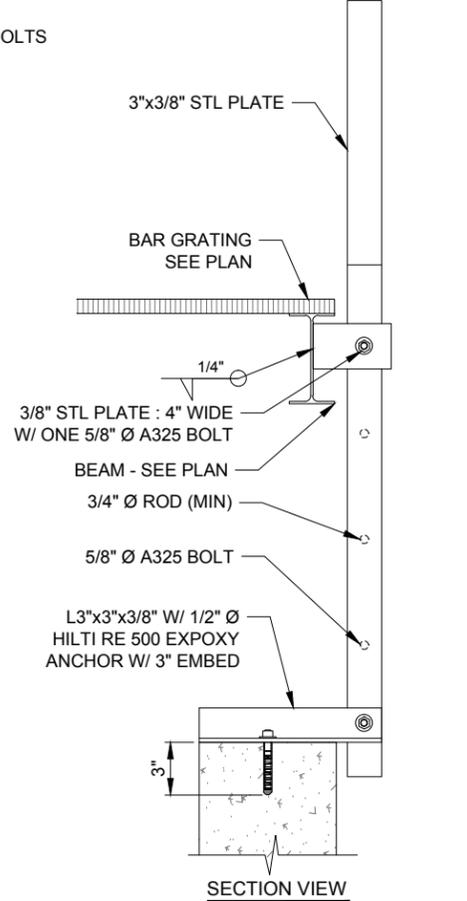
1 ELEVATED STEEL EQUIPMENT PLATFORM - FLOOR FRAMING PLAN
SCALE: 1/2" = 1'-0"



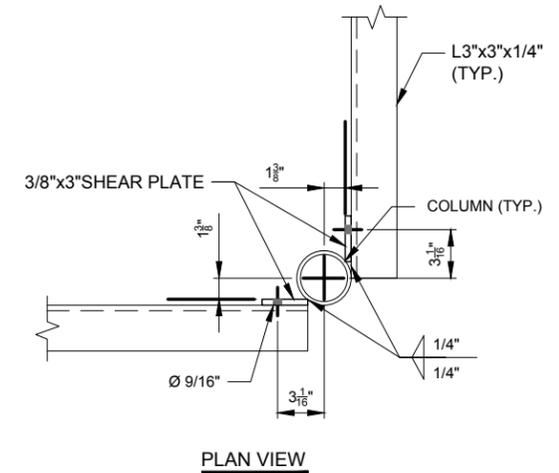
3 TYPICAL BEAM TO BEAM CONNECTION
SCALE: N.T.S.



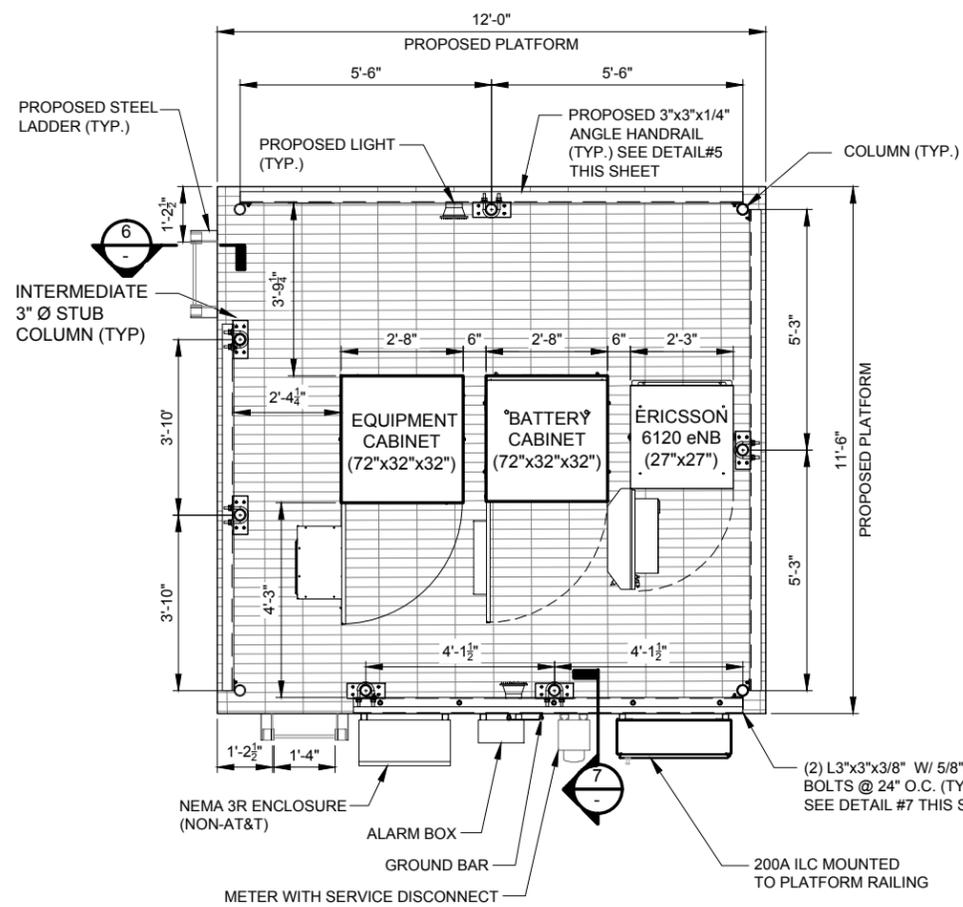
4 TYPICAL BEAM TO BEAM CONNECTION AT CORNERS
SCALE: N.T.S.



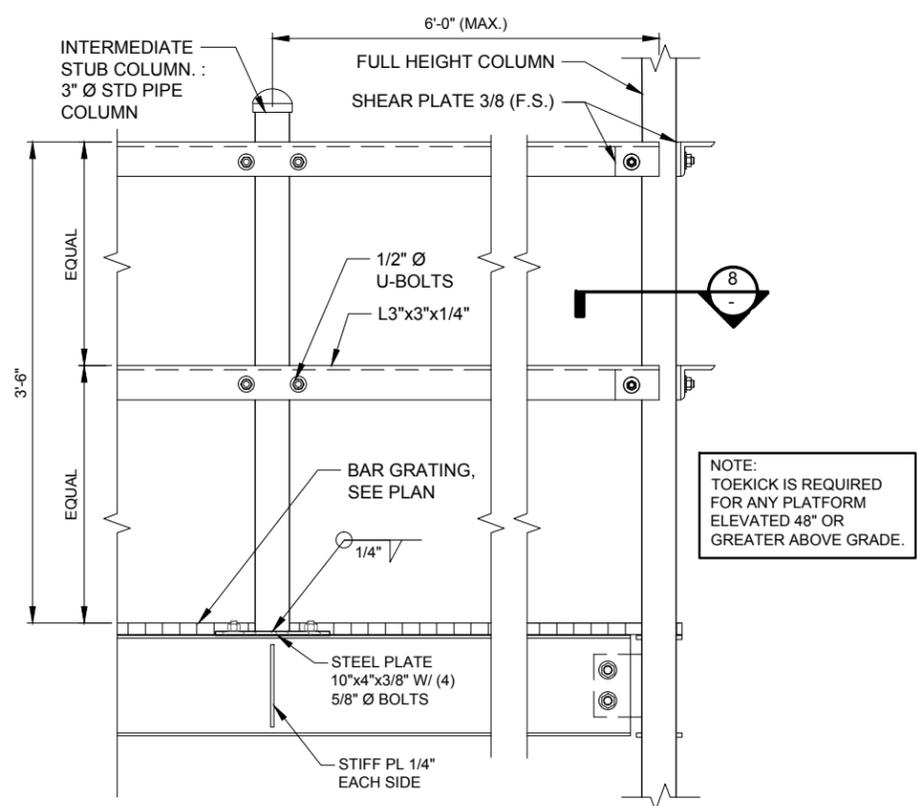
6 EQUIPMENT PLATFORM LADDER DETAIL
SCALE: N.T.S.



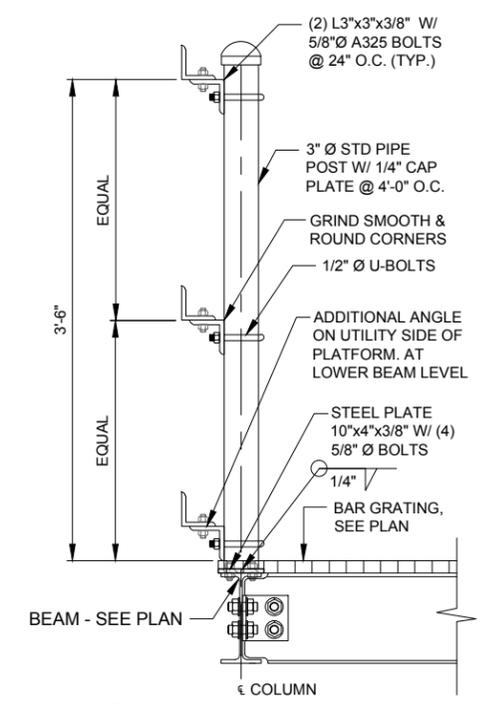
8 ANGLE HANDRAIL CONNECTION DETAIL
SCALE: N.T.S.



2 ELEVATED STEEL EQUIPMENT PLATFORM - LAYOUT PLAN
SCALE: 3/4" = 1'-0"



5 EQUIPMENT PLATFORM TYPICAL HANDRAIL DETAIL
SCALE: N.T.S.



7 HANDRAIL AT UTILITY FRAME
SCALE: N.T.S.

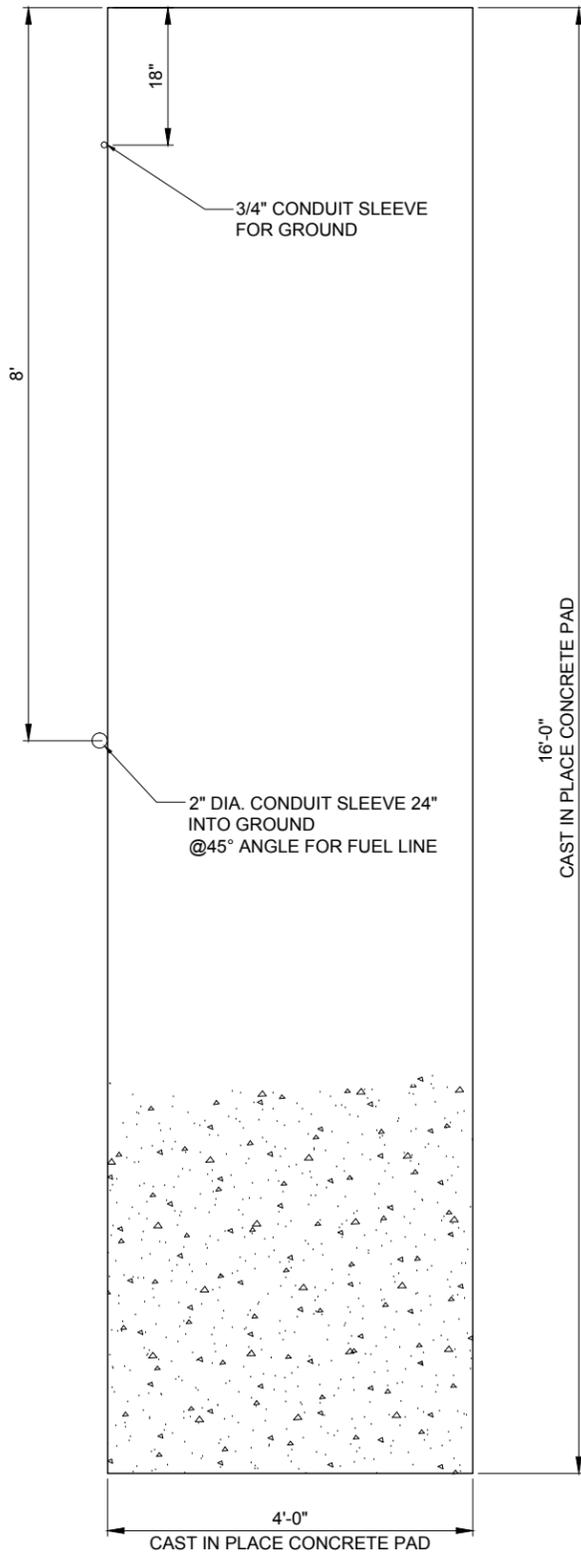
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1	ISSUED FOR REVIEW	07/17/15								
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5	UPDATE PER CLIENT COMMENTS	02/08/16								
6	ISSUED FOR FINAL	03/22/16								
7	REMOVED PLATFORM CANOPY	04/04/16								

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SHOPPES OF GRAND PRAIRIE
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SHEET TITLE
ELEVATED STEEL EQUIPMENT PLATFORM FLOOR FRAMING PLAN

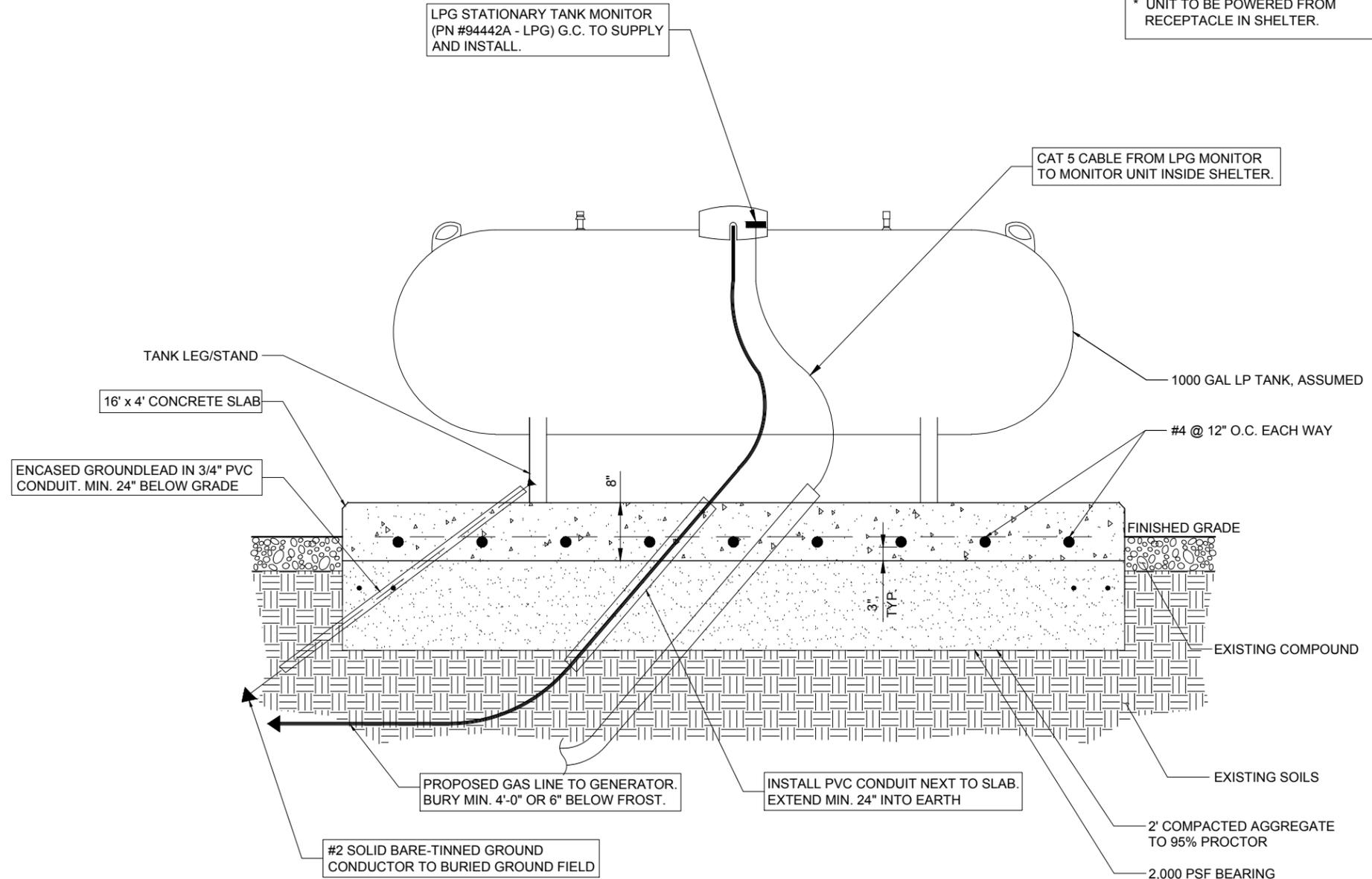
SHEET NUMBER
C-8



1 TYPICAL LP TANK FOUNDATION PLAN
SCALE: N.T.S.

NOTE:
LP TANK CONCRETE PAD SIZE DETERMINED BY SIZE OF
1000 GAL TANK.

NOTE:
TANK TO BE INSTALLED WITH AN
INTEGRAL MANUAL SHUTOFF VALVE.



2 TYPICAL LP TANK FOUNDATION DETAIL
SCALE: N.T.S.

LP TANK MONITOR

- * G.C. TO SUPPLY & INSTALL PROPANE TANK MONITOR (MICRO-DESIGN, INC., MODEL NO. LPG STM 94442A) WITH A BATTERY BACKUP (APC MODEL ES 350).
- * G.C. TO SUPPLY CAT 5 FROM UNIT TO ALARM UNIT IN SHELTER.
- * G.C. TO SUPPLY CAT 5 FROM ALARM UNIT IN SHELTER TO ALARM PUNCH DOWN.
- * UNIT TO BE POWERED FROM RECEPTACLE IN SHELTER.



CENTRAL STATES TOWER III, LLC



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PEORIA, IL 61615

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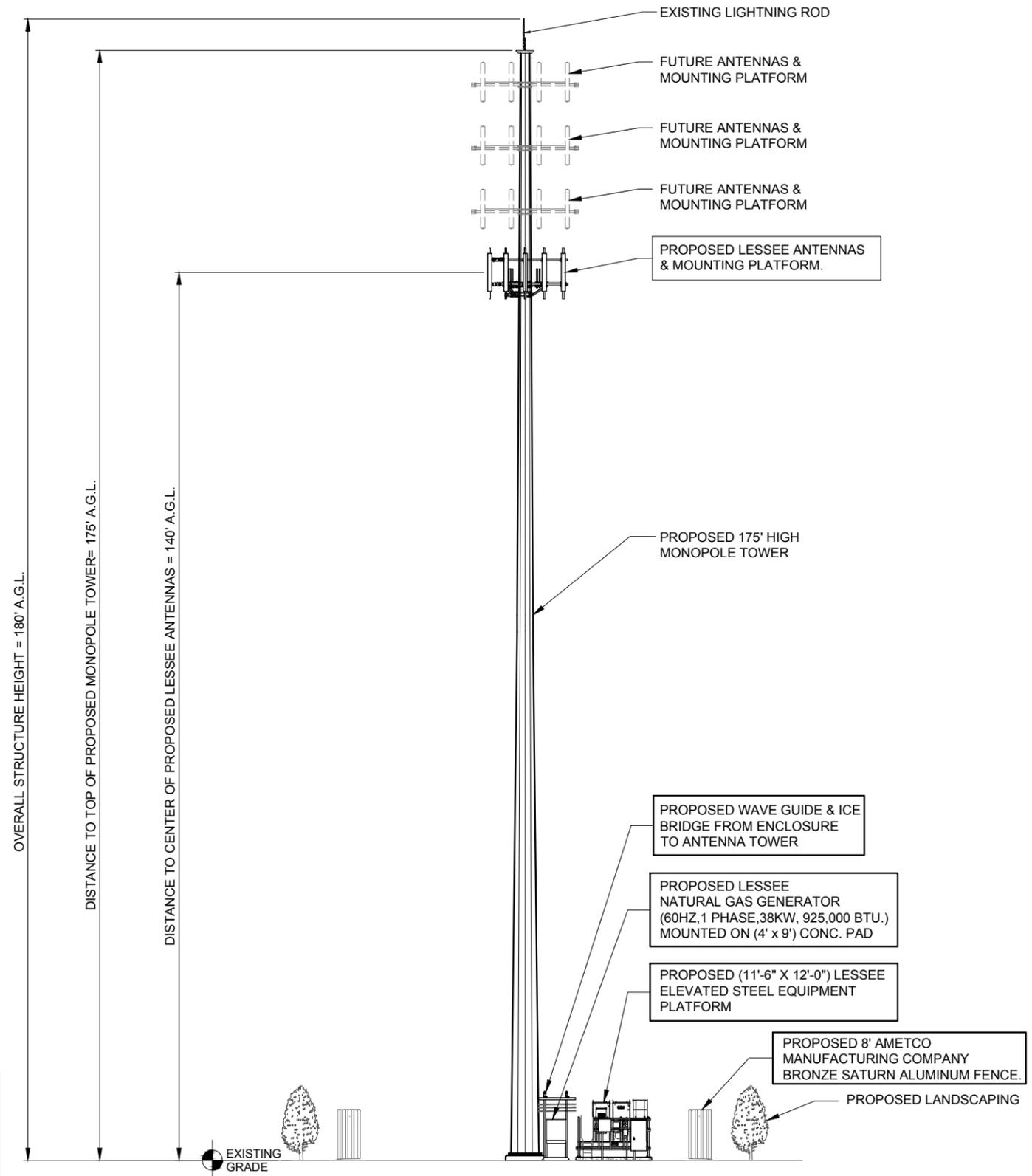
SHEET TITLE
LP TANK DETAILS

SHEET NUMBER
C-9



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

22" x 34" PRINT IS THE FULL SCALE FORMAT. ANY SIZE OTHER THAN THAT IS AT REDUCED SCALE.



NOTE: WIRELESS TELECOMMUNICATIONS FACILITIES SHALL CONTAIN A SIGN NO LARGER THAN FOUR (4) SQUARE FEET IN ORDER TO PROVIDE ADEQUATE NOTIFICATION TO PERSONS IN THE IMMEDIATE AREA OF THE PRESENCE OF RF RADIATION OR TO CONTROL EXPOSURE TO RF RADIATION WITHIN A GIVEN AREA. A SIGN OF THE SAME SIZE IS ALSO TO BE INSTALLED TO CONTAIN THE NAME(S) OF THE OWNER(S) AND OPERATOR(S) OF THE ANTENNA(S) AS WELL AS EMERGENCY PHONE NUMBER(S). THE SIGN SHALL BE ON THE EQUIPMENT SHELTER OR CABINET OF THE APPLICANT AND BE VISIBLE FROM THE ACCESS POINT OF THE SITE AND MUST IDENTIFY THE EQUIPMENT OWNER OF THE SHELTER OR CABINET. ON TOWER SITES, AN FCC REGISTRATION SITE AS APPLICABLE IS ALSO TO BE PRESENT. THE SIGNS SHALL NOT BE LIGHTED, UNLESS APPLICABLE LAW, RULE OR REGULATION REQUIRES LIGHTING. NO OTHER SIGNAGE, INCLUDING ADVERTISING, SHALL BE PERMITTED.

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



CENTRAL STATES TOWER III, LLC



TERRA CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

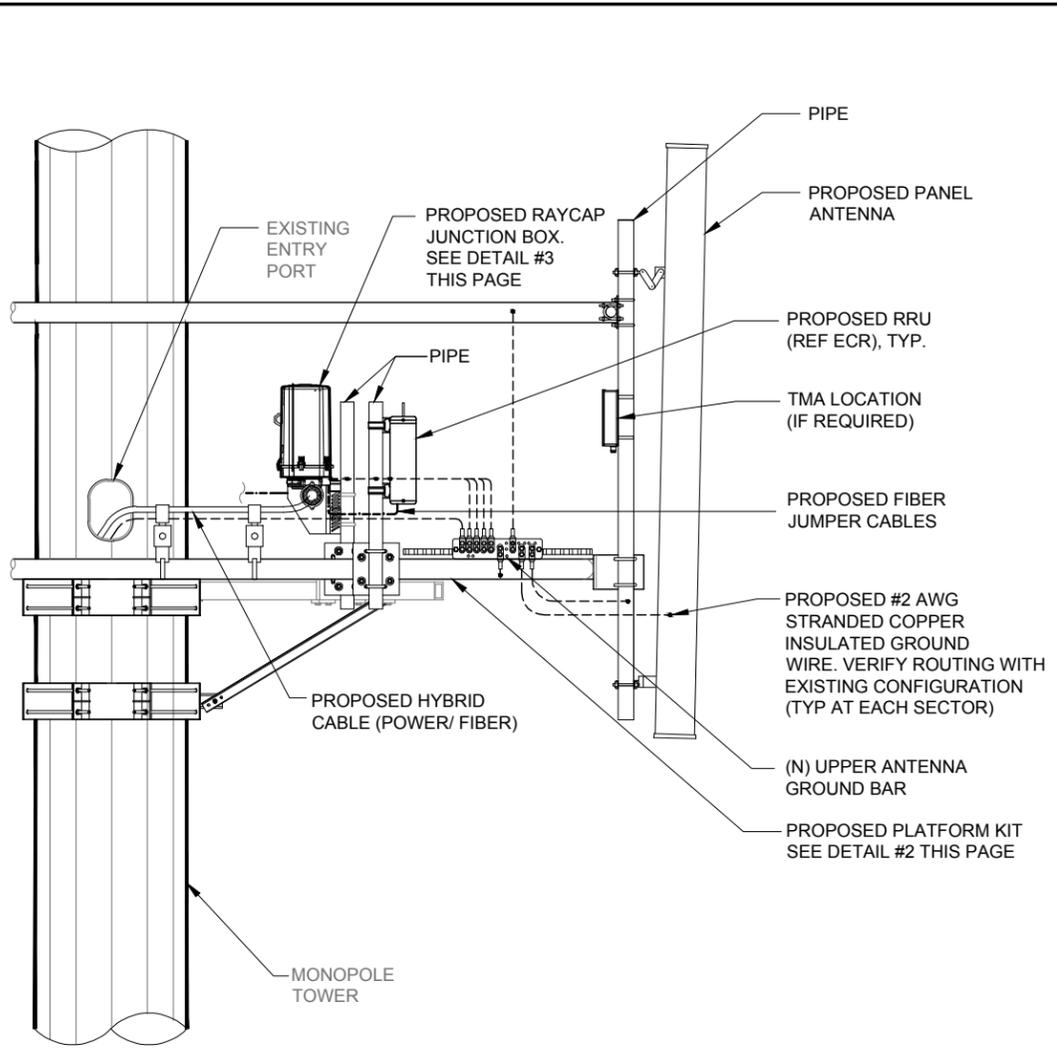
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7.	UPDATE PER LL COMMENTS	04/14/16	BTE		

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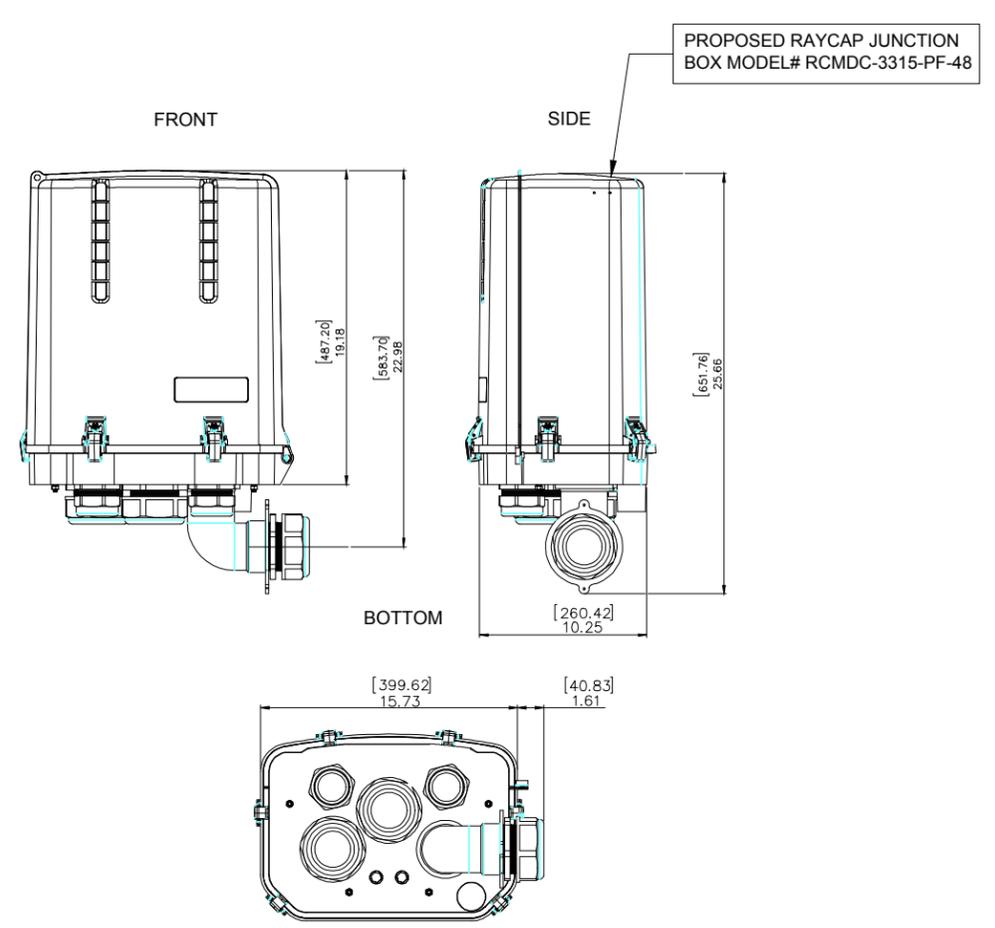
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SITE ELEVATION

SHEET NUMBER
ANT-1

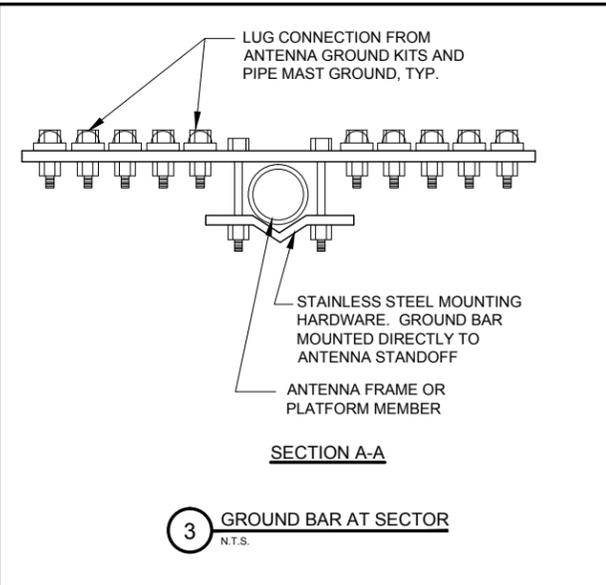


1 ANTENNA, RRU & RAYCAP JUNCTION BOX MOUNTING DETAIL
SCALE: N.T.S.

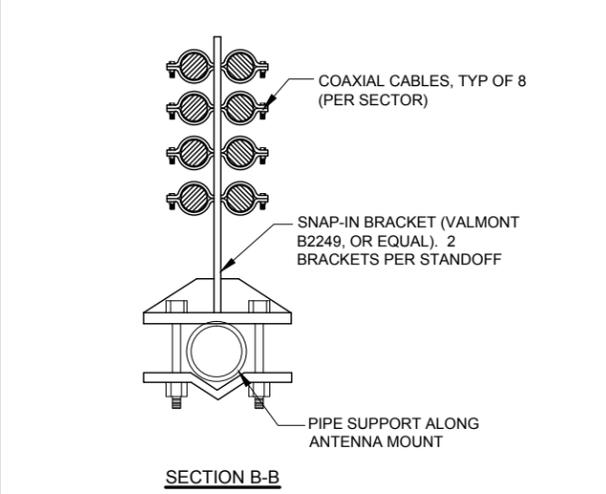
SPECIFICATIONS DC SURGE PROTECTION FOR RRU/INTEGRATED ANTENNA RADIO HEAD [mm]
APPLICATION: TOWER / BASE / ROOFTOP / ROOFTOP DISTRIBUTION MODELS INCHES
WEIGHT: 32LBS (14.51 KG)



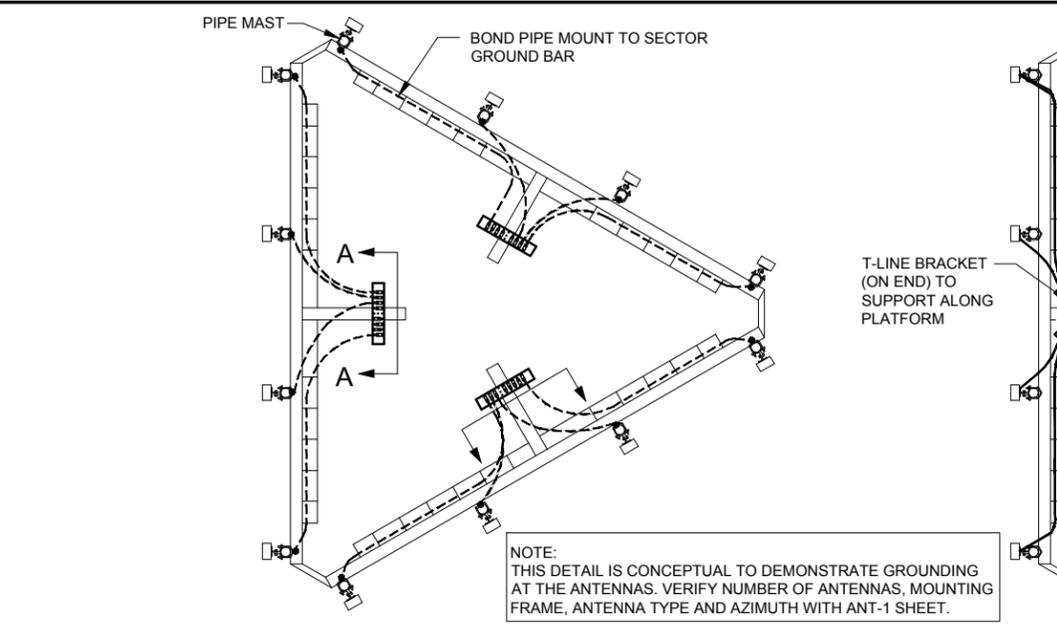
2 RAYCAP JUNCTION BOX DETAIL
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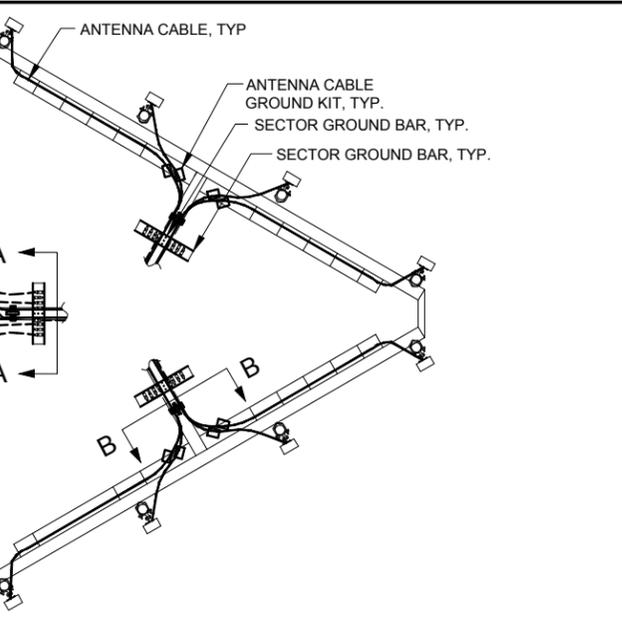
3 GROUND BAR AT SECTOR
N.T.S.



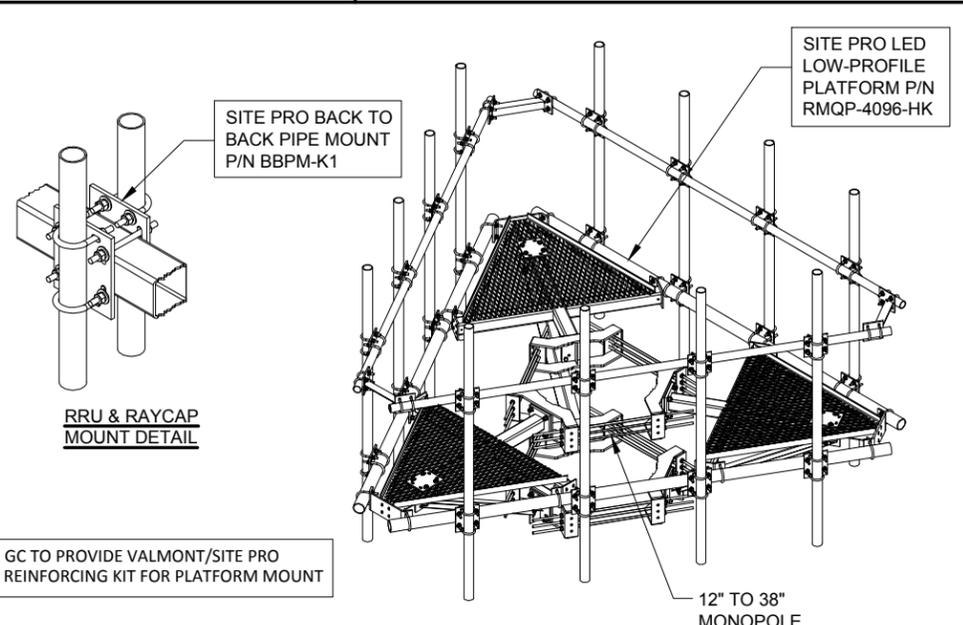
4 SNAP-IN BRACKET AT ANTENNA MOUNT
N.T.S.



5 PIPE MAST GROUNDING AT ANTENNA ELEVATION
N.T.S.



6 ANTENNA CABLE GROUNDING AT ANTENNA ELEVATION
N.T.S.



7 LED LO-PROFILE PLATFORM DETAIL
SCALE: N.T.S.



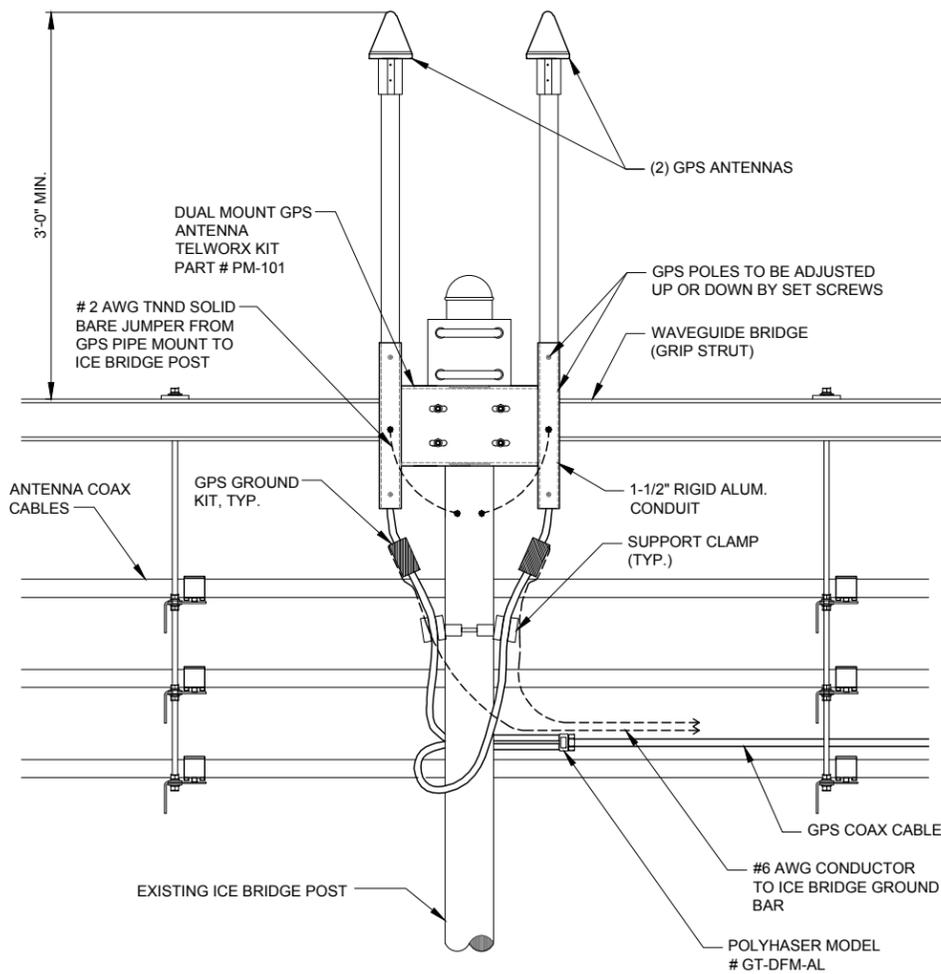
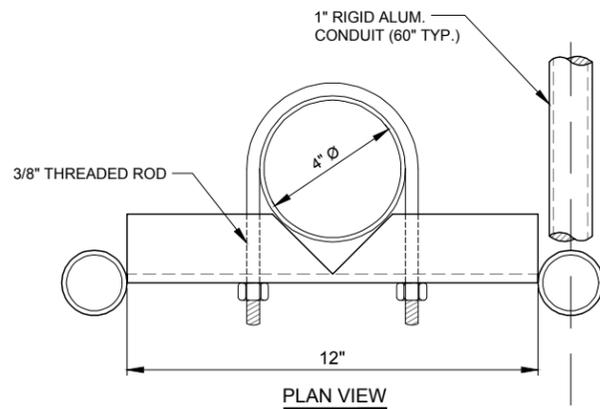
NO.	DESCRIPTION	BY	DATE	PP	JTM	MT	SEA	JTM	JTM	BTE
		DATE	DATE							
1	ISSUED FOR REVIEW		07/17/15							
2	REVISED PER POWER COORDINATION		10/23/15							
3	ISSUED FOR FIBER COORDINATION		12/28/15							
4	UPDATED TO CABINET LAYOUT		01/18/16							
5	UPDATE PER CLIENT COMMENTS		02/08/16							
6	ISSUED FOR FINAL		03/22/16							
7	REMOVED PLATFORM CANOPY		04/04/16							

IL-00-5999
SHOPPES OF GRAND PRAIRIE
 W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

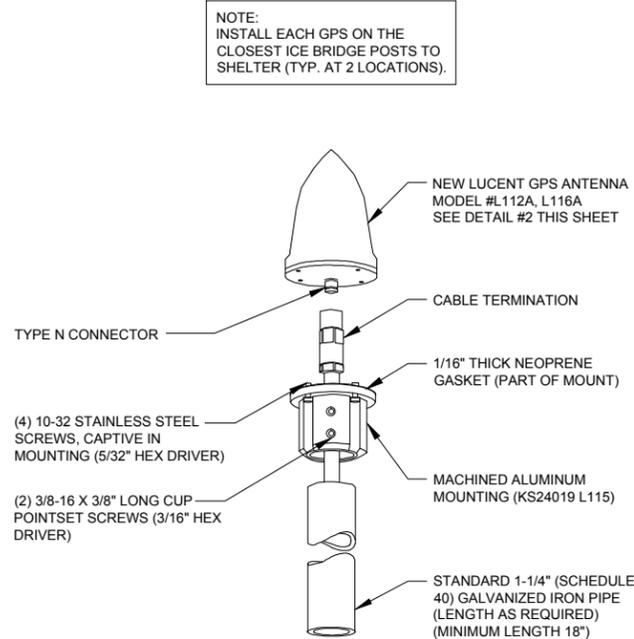
DRAWN BY: PP
 CHECKED BY: TAZ
 DATE: 07/17/15
 PROJECT #: 50-168

SHEET TITLE
ANTENNA MOUNTING DETAILS

SHEET NUMBER
ANT-3

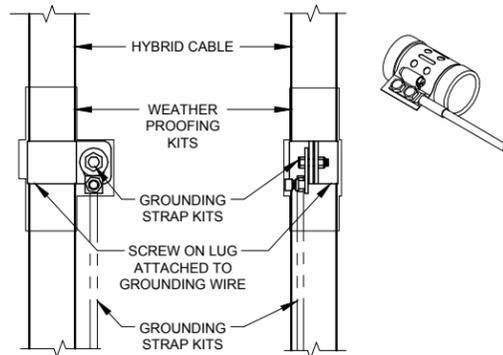


1 GPS MOUNTING DETAIL
N.T.S.

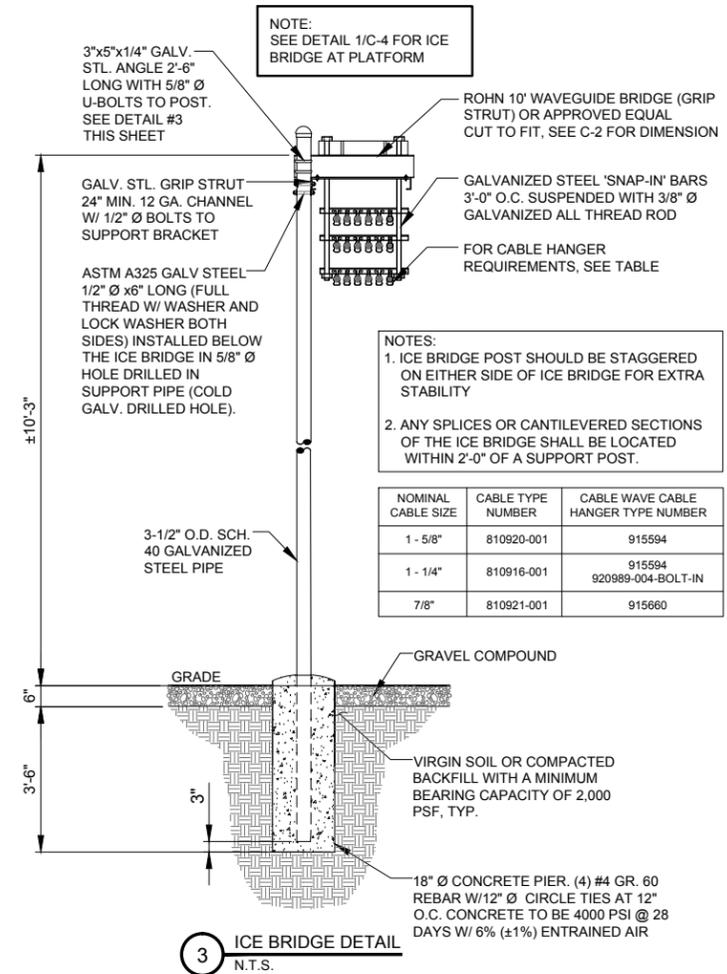


2 TYPICAL GPS DETAIL
N.T.S.

- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - THIS DETAIL IS TYPICAL FOR EACH COAX CABLE WHERE IT IS SPECIFIED TO BE GROUNDED
 - CABLE TO BE GROUNDED AT ANTENNA LEVEL AND PRIOR TO ENTERING SHELTER ENTRY PANEL.
 - CABLE ALSO TO BE GROUNDED TO GROUND BAR AT TOWER BASE IF APPLICABLE.
 - USE ONLY TIN PLATED GROUNDING KITS.



4 COAX/HYBRID GROUND KIT DETAIL
N.T.S.



3 ICE BRIDGE DETAIL
N.T.S.



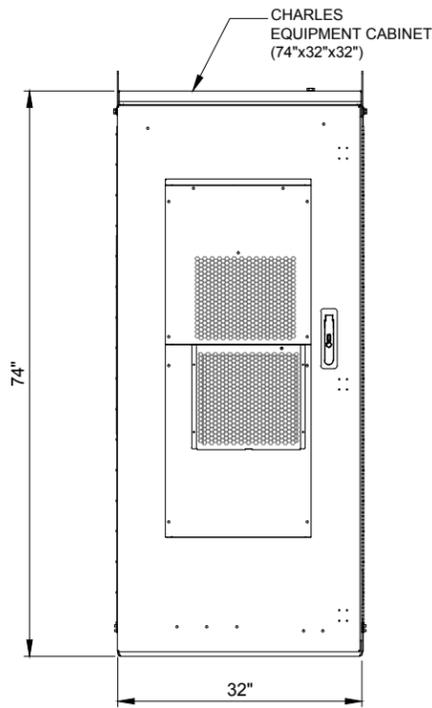
NO.	DESCRIPTION	DATE	BY
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3.	ISSUED FOR FIBER COORDINATION	12/28/15	MT
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	REMOVED PLATFORM CANOPY	04/04/16	BTE

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SHEET TITLE
ANTENNA MOUNTING DETAILS

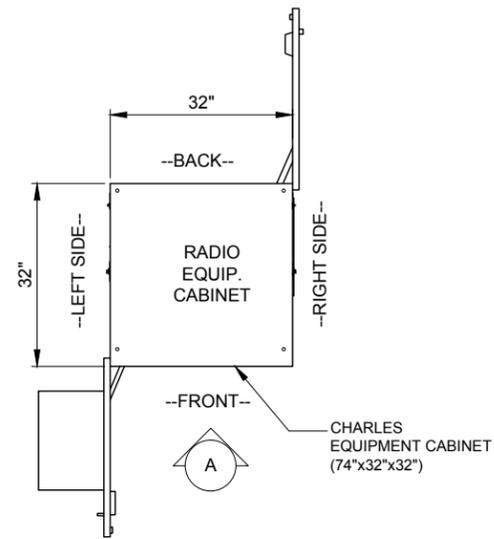
SHEET NUMBER
ANT-4



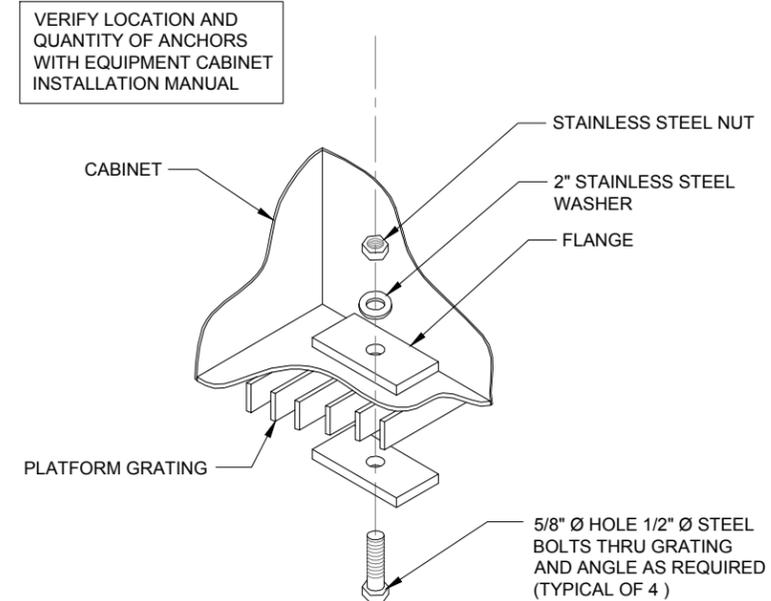
CABINET ELEVATION A

Category	
Dimensions and weight	74"H x 32"W x 32"D 535 lbs. as shipped
23" Front and Rear Equipment Rack Space and Hole Spacing	68" (39RU) EIA spacing with tapped 12 - 24 mounting holes
Color	Off-White
Material	.125" Welded Aluminum
Maximum Heat Dissipation	2900W
10000 BTU Air Conditioner with 2000W heater	Dantherm #1A/CT-B1000
Electrical outlet	One GFCI outlet
-48VDC power system with controller	GE infinity S: NES4824-23-AC5-PS8-DC1E
Bonding and Grounding	(4) 2x8-position Ground Bars
Cable Entrance	REFER TO DETAIL BELOW
Operating Temp. Range, Inside Enclosure	-40° to +149°F, 40° to 65°C
Operating Temp. Range, Outside Enclosure	-40° to +115°F, 40° to 46°C
Humidity	0 to 95% (non-condensing)
Altitude	Up to 2,000 meters (6560')

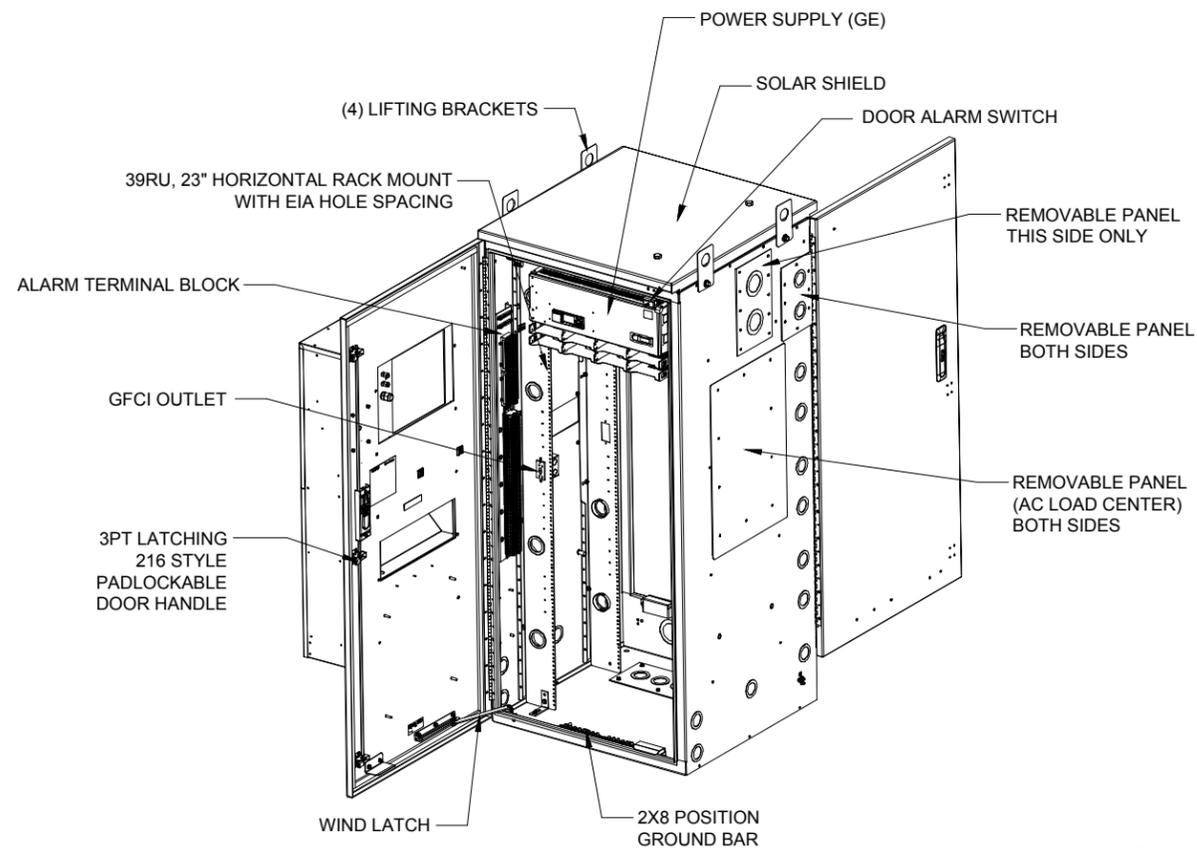
1 CHARLES CUBE-PM63912UN3 CABINET DIMENSIONS
SCALE: N.T.S



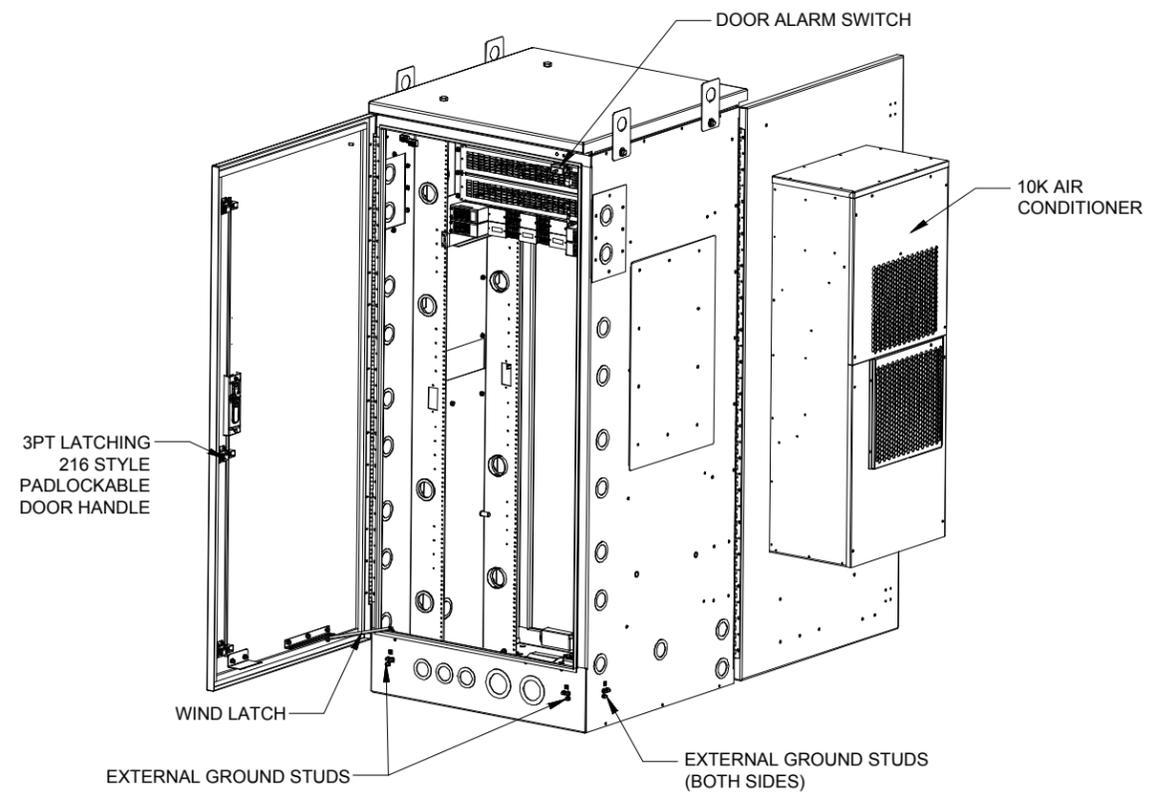
2 CHARLES CUBE-PM63912UN3 CABINET DIMENSION PLAN
SCALE: N.T.S



3 TYPICAL CABINET ANCHORING DETAIL
SCALE: N.T.S



4 CHARLES CUBE-PM63912UN3 CABINET COMPONENTS
SCALE: N.T.S



NO.	DATE	BY	DESCRIPTION
1	07/17/15	PP	ISSUED FOR REVIEW
2	10/23/15	JTM	REVISED PER POWER COORDINATION
3	12/28/15	MT	ISSUED FOR FIBER COORDINATION
4	01/18/16	SEA	UPDATED TO CABINET LAYOUT
5	02/08/16	JTM	UPDATE PER CLIENT COMMENTS
6	03/22/16	JTM	ISSUED FOR FINAL
	04/04/16	BTE	REMOVED PLATFORM CANOPY

IL-00-5999
SHOPPES OF
GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

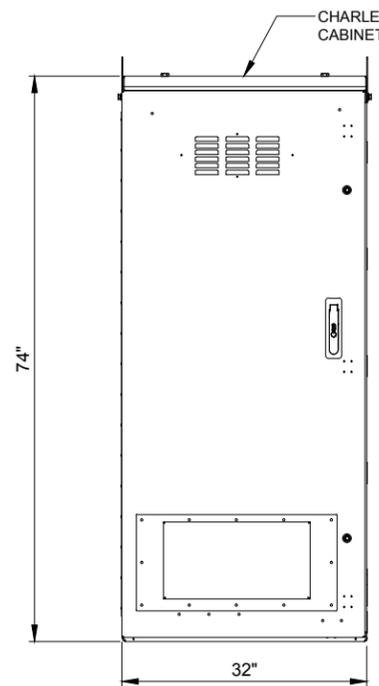
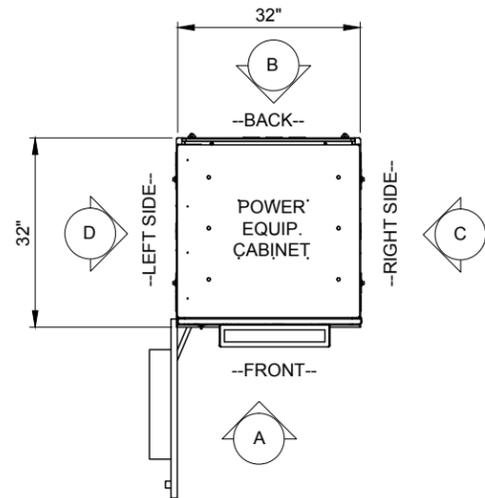
DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
EQUIPMENT
DETAILS

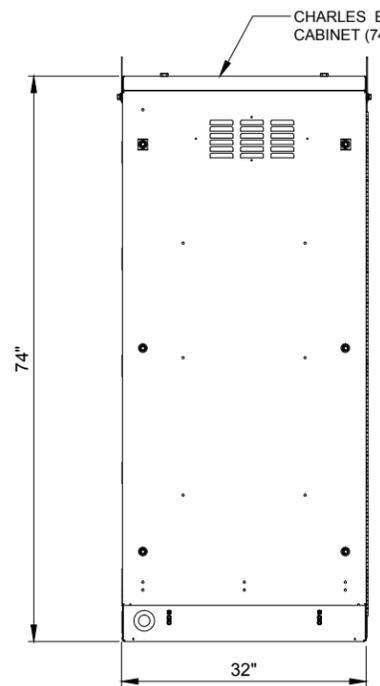
SHEET NUMBER

EQ-1

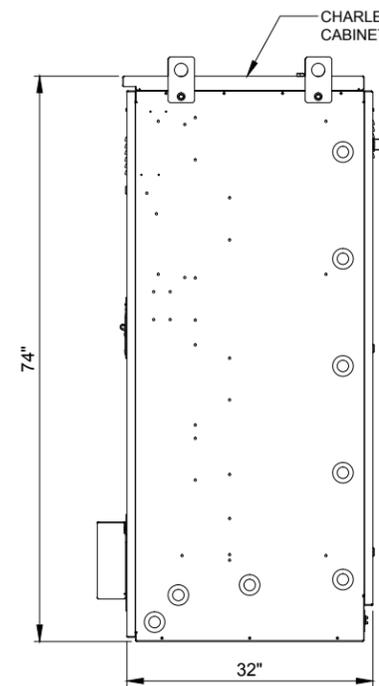
CHARLES CUBE-BB48E1HN1	
DIMENSIONS	32"W x 32"W x 72"H
WEIGHT	900 LBS (EMPTY)
WEIGHT	2685 LBS (w/Ni-Cd BTY)
BATT. SUPPORT	5 STRINGS SAFT TEL. 180, 48V
THERMAL	DAC



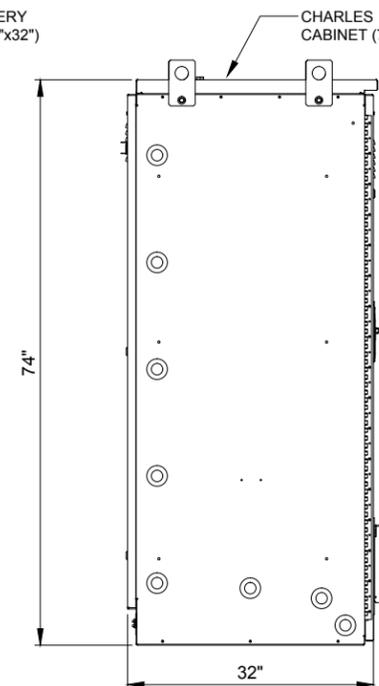
CABINET ELEVATION A



CABINET ELEVATION B



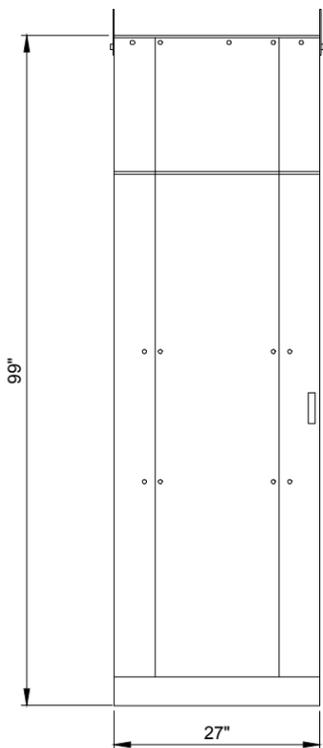
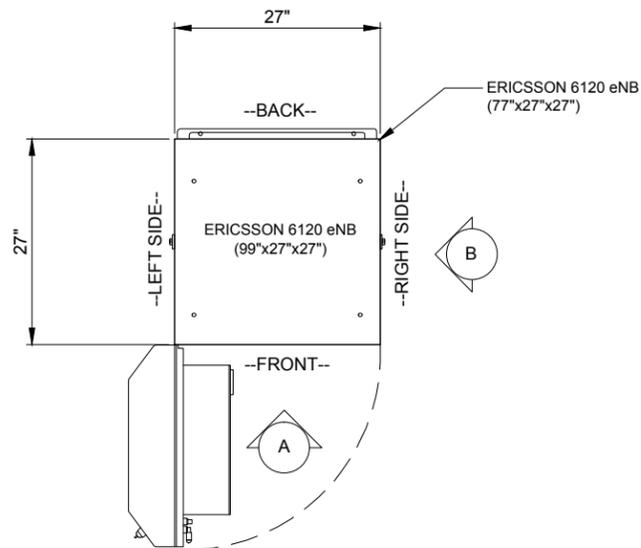
CABINET ELEVATION C



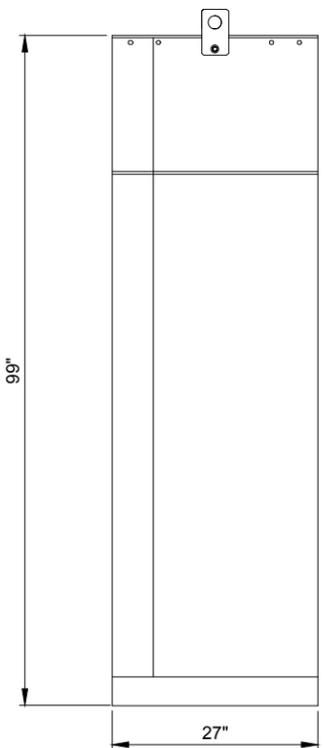
CABINET ELEVATION D

1 CHARLES CUBE-BB48E1HN1 CABINET DIMENSIONS
SCALE: N.T.S

ERICSSON 6120 eNB	
DIMENSIONS	27"W x 27"W x 99"H
WEIGHT	___ LBS

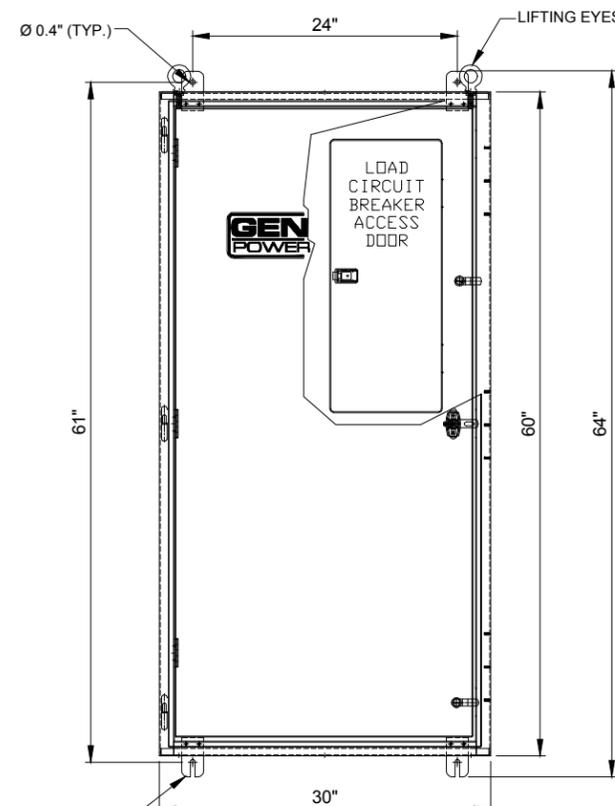


CABINET ELEVATION A



CABINET ELEVATION B

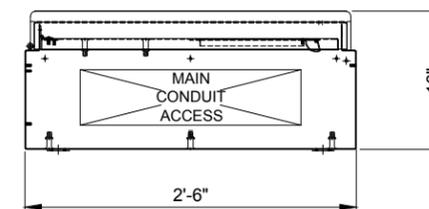
2 ERICSSON 6120 eNB CABINET DIMENSIONS
SCALE: N.T.S



FRONT VIEW

3 INTEGRATED LOAD CENTER
SCALE: N.T.S

ILC RATED AMPS	Voltage	Phase	Enclosure Height	Enclosure Width	Enclosure Depth	Weight (lbs.)
200	120/240	1	60"	30"	10"	350
200	120/208	3	60"	30"	10"	350



BOTTOM VIEW

NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	07/17/15	PP
2.	REVISED PER POWER COORDINATION	10/23/15	JTM
3.	ISSUED FOR FIBER COORDINATION	12/28/15	MT
4.	UPDATED TO CABINET LAYOUT	01/18/16	SEA
5.	UPDATE PER CLIENT COMMENTS	02/08/16	JTM
6.	ISSUED FOR FINAL	03/22/16	JTM
	REMOVED PLATFORM CANOPY	04/04/16	BTE

IL-00-5999
SHOPPES OF
GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
EQUIPMENT
DETAILS

SHEET NUMBER

EQ-2



CENTRAL STATES TOWER III, LLC





CENTRAL STATES TOWER III, LLC



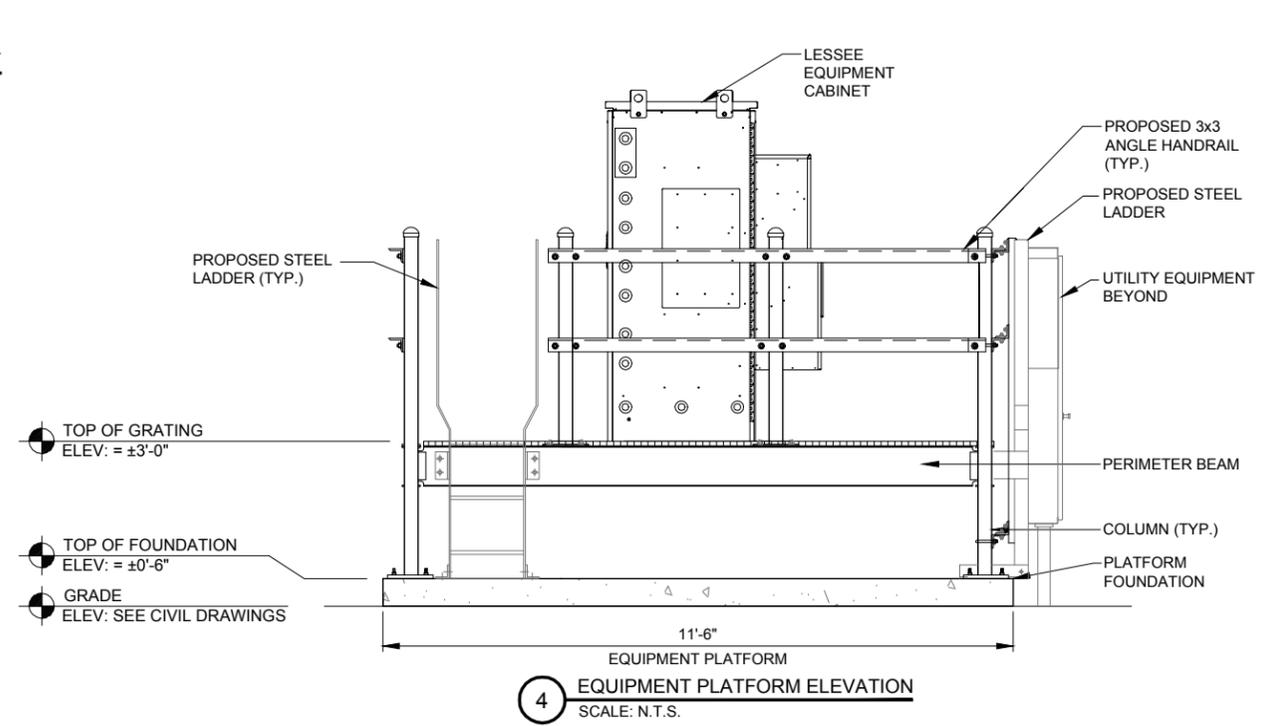
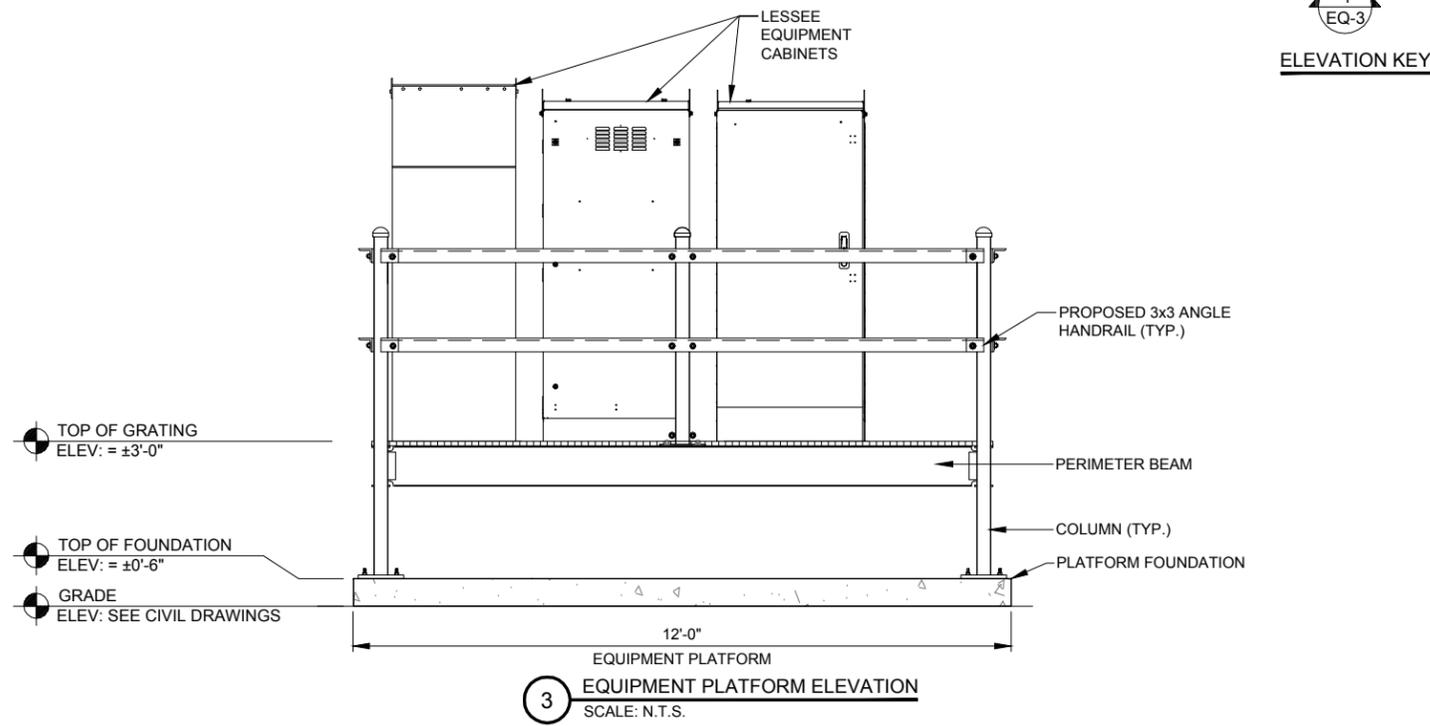
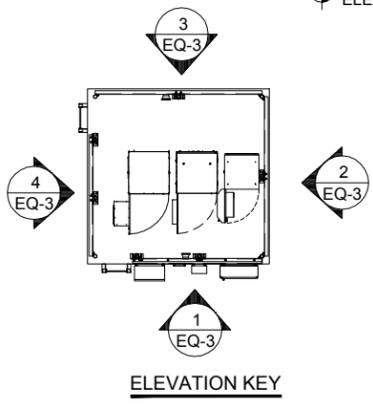
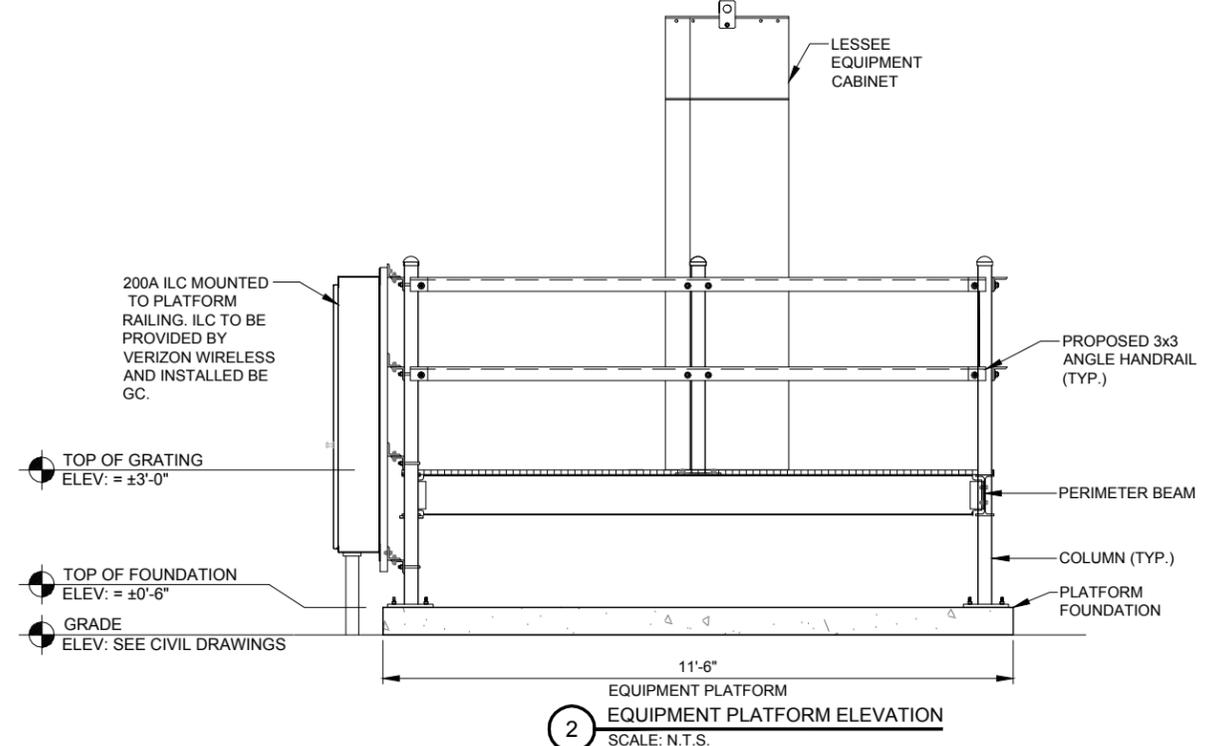
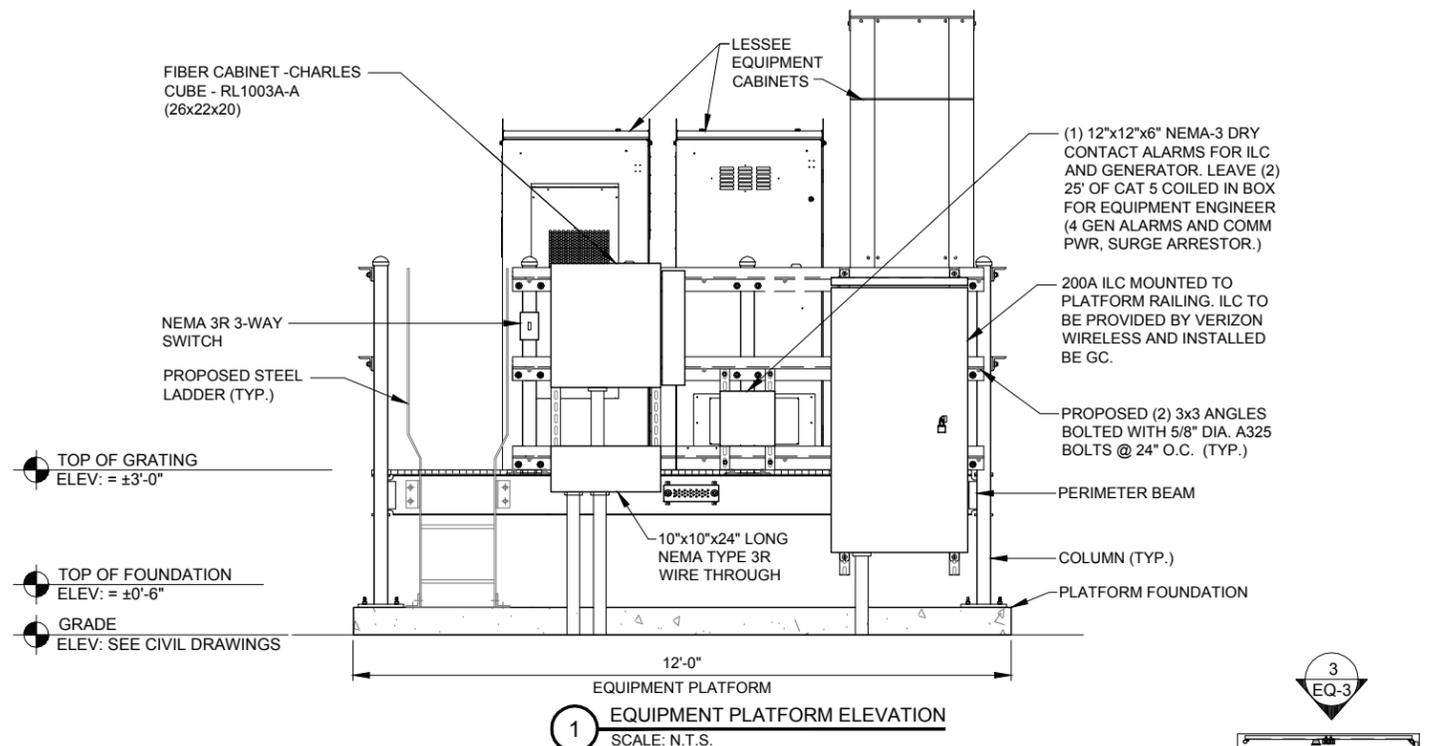
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1.	ISSUED FOR REVIEW	07/17/15	PP
2.	REVISED PER POWER COORDINATION	10/23/15	JTM
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	REMOVED PLATFORM CANOPY	04/04/16	BTE

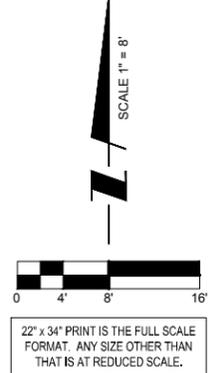
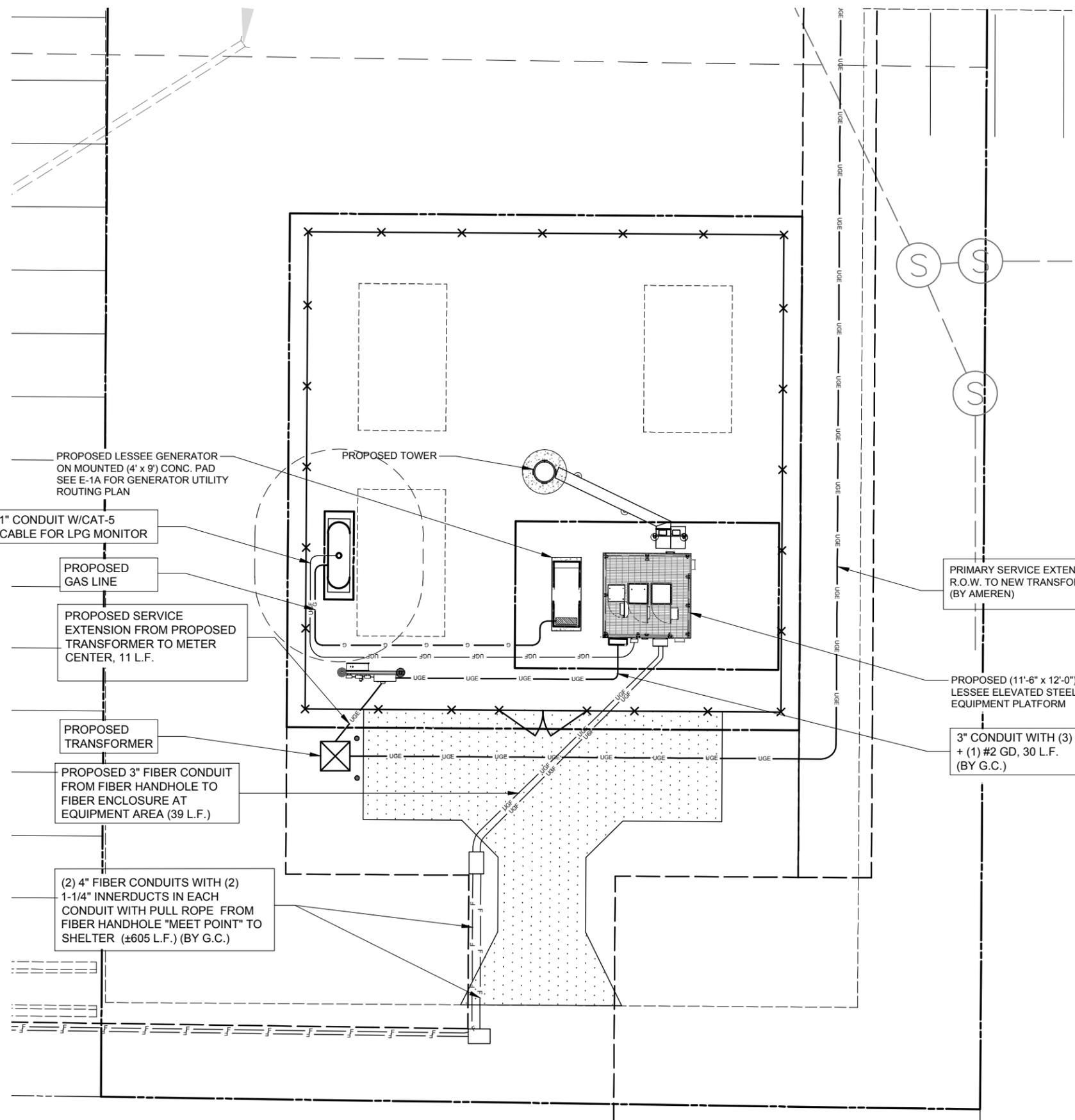
IL-00-5999
SHOPPES OF GRAND PRAIRIE
 W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

DRAWN BY: PP
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 DATE: 07/17/15
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SHEET TITLE
PLATFORM ELEVATIONS

SHEET NUMBER
EQ-3





NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	07/17/15	PP
2.	REVISED PER POWER COORDINATION	10/23/15	JTM
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	REMOVED PLATFORM CANOPY	04/04/16	BTE

IL-00-5999
SHOPPES OF GRAND PRAIRIE

W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
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PROJECT #:	50-168

SHEET TITLE
UTILITY ROUTING PLAN

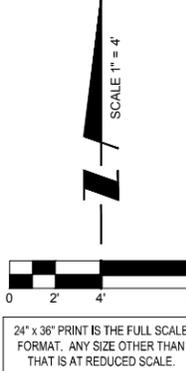
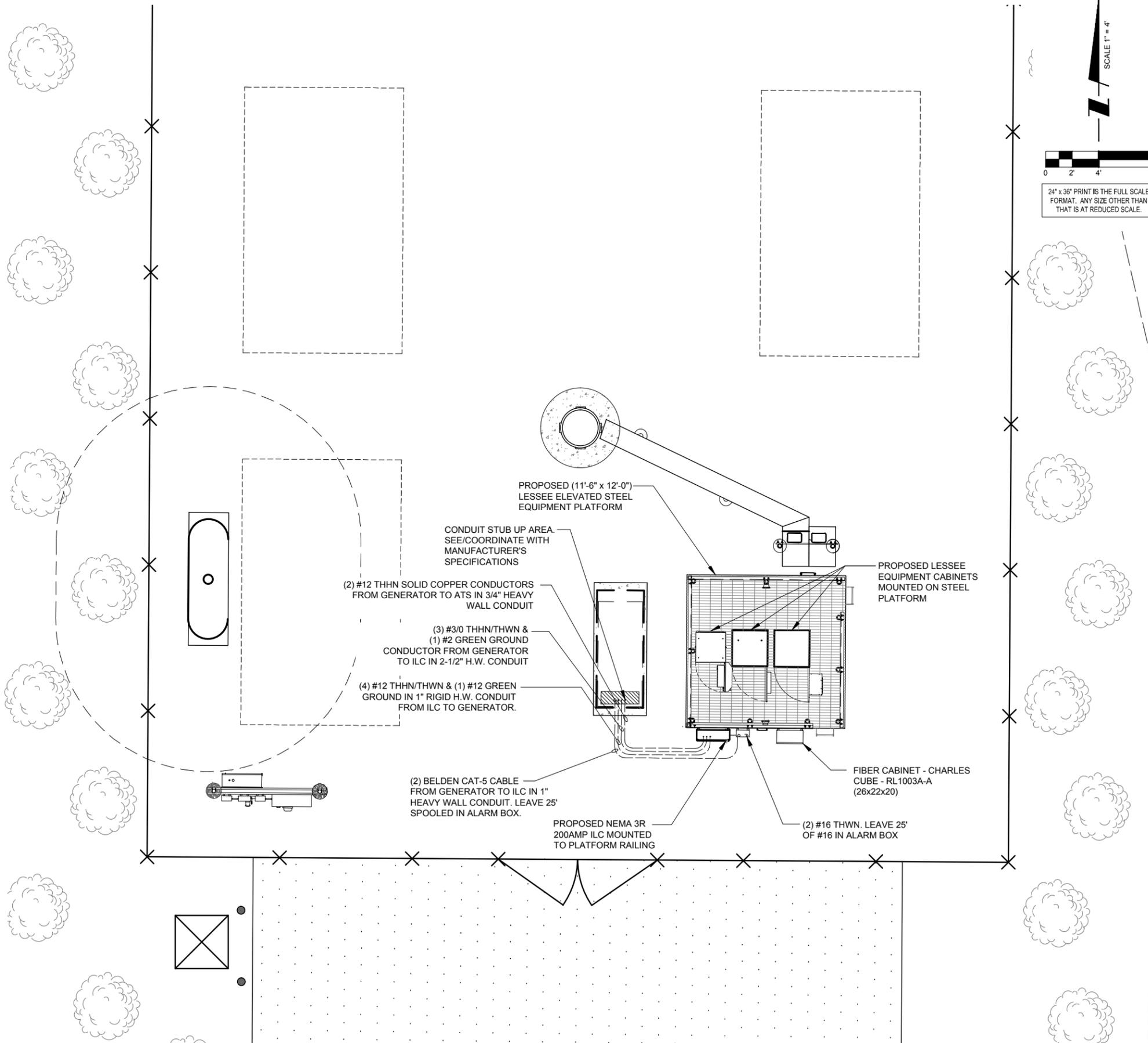
SHEET NUMBER
E-1

1 UTILITY ROUTING PLAN
 SCALE: 1" = 8'



NOTES:

- 1) EXISTING MANUAL TRANSFER SWITCH TO BE REMOVED BY THE ELECTRICAL CONTRACTOR (E.C) AND TURNED OVER TO LESSEE. REMOVED EXTERNAL GROUND TERMINATION AND RECONNECT TO NEW TRANSFER SWITCH USING EXISTING GROUND LUG.
- 2) ALL UNDERGROUND GROUND TERMINATIONS AND TERMINATIONS TO EXISTING BUILDING GROUND GRID TO BE HEAVY DUTY EXOTHERMIC (CAD WELD).
- 3) NEW AUTOMATIC TRANSFER SWITCH, INSTALLED AND WIRED BY E.C. CONNECT EXTERNAL GROUND LUG AND GROUNDING CONDUCTOR THAT WAS REMOVED FROM MANUAL TRANSFER SWITCH.
- 4) EXISTING BUILDING GROUND GRID IS INDICATED ON THE NEW PLAN. HOWEVER, EXACT LOCATION IS NOT KNOWN. E.C. MUST LOCATE THIS GROUND GRID TO PROVIDE THE ATTACHMENT OF THE GENERATOR GROUND GRID. ALSO THE UNDERGROUND CONDUITS FROM THE GENERATOR TO THE BUILDING WILL CROSS OVER THIS GROUND GRID. CARE MUST BE TAKEN NOT TO DAMAGE THE GROUND GRID. IF ANY DAMAGE OCCURS IT MUST BE REPAIRED SO THAT THE COMPLETE GRID SYSTEM REMAINS INTACT.
- 5) E.C. TO EXTEND #2 TINNED SOLID COPPER GROUND CONDUCTORS FROM (2) LOCATIONS ON GENERATOR FRAME (SEE MANUFACTURERS RECOMMENDATIONS) PROVIDE GROUND LUGS ON GENERATOR AS REQUIRED. EXTEND #1/0 STRANDED GROUND CONDUCTOR AND CONNECT TO COPPER CLAD GROUND RODS VIA HEAVY DUTY EXOTHERMIC TERMINATIONS AND THEN EXTENDED AND ATTACH TO BUILDING GROUND GRID VIA EXOTHERMIC TERMINATIONS.
- 6) NEW GENERATOR FURNISHED BY LESSEE. INSTALLED AND WIRED BY E.C. DELIVERED AND SET BY CONTRACTOR.
- 7) EXISTING PANEL BOARD - E.C. TO PROVIDE (2) IP20A BREAKERS AND EXTEND CIRCUITS OUT TO GENERATOR LOCATIONS FOR WIRING OF 1800 WATT WATER JACKET HEATER, AND BATTERY CHARGER. PROVIDE RECEPTACLES OR TERMINATIONS AS REQUIRED. VERIFY EXACT LOCATIONS WITH GENERAC.
- 8) E.C. MUST MONITOR DC POWER WHEN ON BATTERY BACK-UP DURING PORTIONS OF CONSTRUCTION. IF LEVEL FALLS BELOW RECOMMENDED LEVEL 2256 DC, E.C. MUST TURN ON THE MAIN POWER. THE CELL SITE CANNOT GO OFF LINE AT ANYTIME.



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A DAY 365 DAYS A YEAR

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CALL JULIE TOLL FREE
1(800) 892-0123
48 HOURS BEFORE YOU DIG

NOTE:
CONTRACTOR TO VERIFY ROUTES WITH LOCAL UTILITY COMPANY PRIOR TO INSTALLATION.

- NOTES:**
- 1) SEE DETAILS ON EXISTING GROUND GRID AND GENERATOR GROUND GRID FOR REQUIRED GROUNDING SYSTEM.
 - 2) PROVIDE NEW FEEDER CONDUCTORS FROM MAIN SERVICE SWITCH TO TRANSFER SWITCH FROM TRANSFER SWITCH TO EXISTING TAP BOX AND FROM TAP BOX TO EXISTING PANELBOARD.
 - 3) CARE MUST BE TAKEN IN THE PLACEMENT OF NEW AUTOMATIC TRANSFER SWITCH SO THAT ENTRANCE OF THE FEEDER THRU THE BACK OF THE TRANSFER SWITCH DOES NOT INTERFERE WITH EQUIPMENT INSIDE TRANSFER SWITCH OR WITH TRANSFER SWITCH OPERATION.

CST

CENTRAL STATES TOWER III, LLC

TERRA
CONSULTING GROUP, LTD.

600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

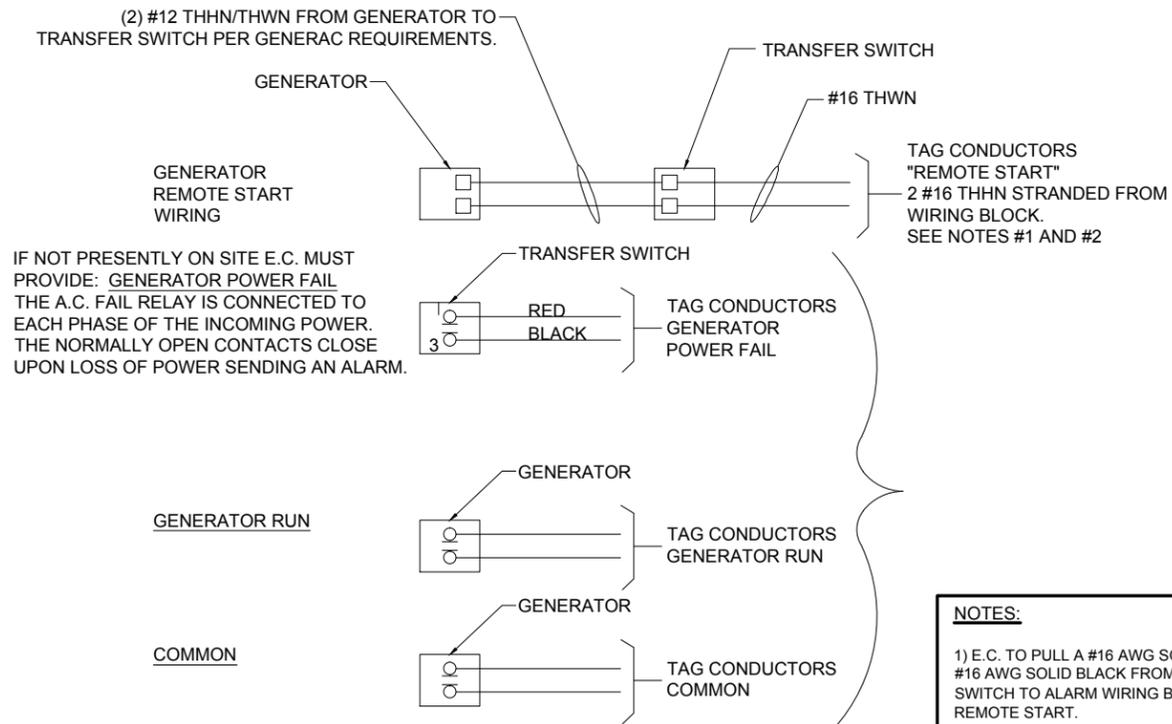
NO.	DESCRIPTION	DATE	BY
1.	REVISED PER POWER COORDINATION	12/28/15	JTM
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6.	REMOVED PLATFORM CANOPY	04/04/16	BTE
7.	UPDATE PER LL COMMENTS	04/14/16	BTE

IL-00-5999
SHOPPES OF GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

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PROJECT #:	50-168

SHEET TITLE
**GENERATOR
UTILITY ROUTING PLAN**

SHEET NUMBER
E-1A



2 ALARM WIRING
N.T.S.

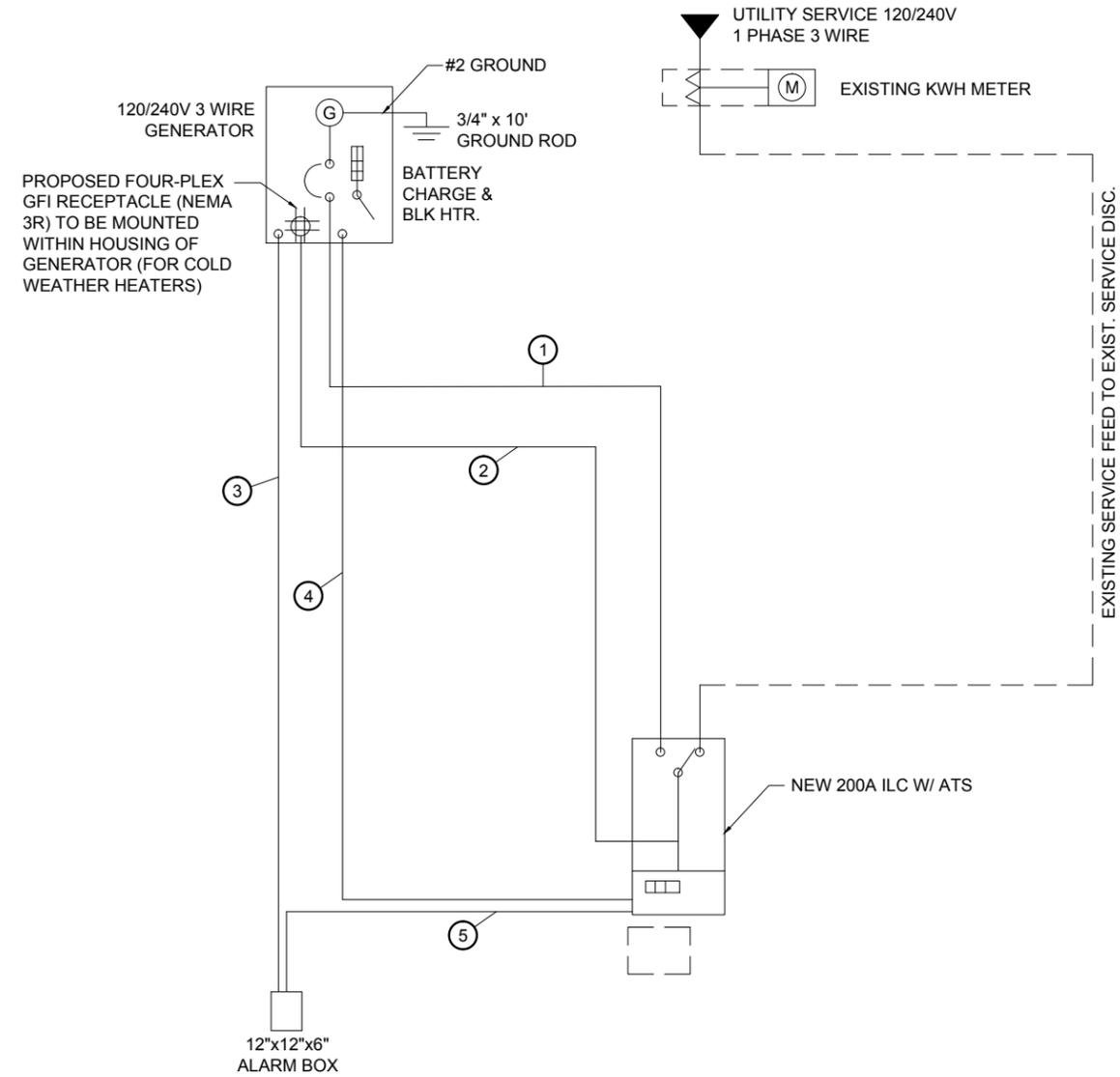
NOTES:

1) E.C. TO PULL A #16 AWG SOLID RED AND A #16 AWG SOLID BLACK FROM THE TRANSFER SWITCH TO ALARM WIRING BLOCK FOR REMOTE START.

2) E.C. TO PULL ALL ALARM LEADS TO EXISTING ALARM WIRING BLOCK. LEAVE A MINIMUM OF 24" PIGTAILS AT ALARM WIRING BLOCK AND TAG CONDUCTORS AS INDICATED. TERMINATIONS ON ALARM POINT WIRING BLOCK BY OTHERS. CONDUCTORS CAN BE RUN EXPOSED. THEY SHALL BE NEATLY BUNDLED USING NYLON TIES AND SUPPORTED AT 2'-0" INTERVALS FOR A NEAT INSTALLATION.

- KEY**
- ① (3) #4/0 & (1) #2 GND IN 3" C
 - ② (4) #12 & (1) #12 GND IN 1" C (SEE NOTE)
 - ③ (2) CAT-5 BELDEN IN 1" C FROM GENERATOR TO ALARM BOX. LEAVE 25' SPOOLED IN ALARM BOX
 - ④ (2) #12 THWN IN 3/4" C
 - ⑤ (2) #16 THWN. LEAVE 25' OF #16 IN ALARM BOX

NOTE:
E.C. TO PROVIDE (2) 20A 1-POLE CIRCUIT BREAKERS FOR BATTERY CHARGER AND JACKET HEATER



1 NEW SINGLE LINE DIAGRAM
N.T.S.



CENTRAL STATES TOWER III, LLC



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SHEET TITLE
GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING

SHEET NUMBER
E-1B



CENTRAL STATES TOWER III, LLC



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DRAWN BY: PP
 CHECKED BY: TAZ
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 PROJECT #: 50-168

SHEET TITLE
PANEL SCHEDULE & LIGHTING PLAN

SHEET NUMBER

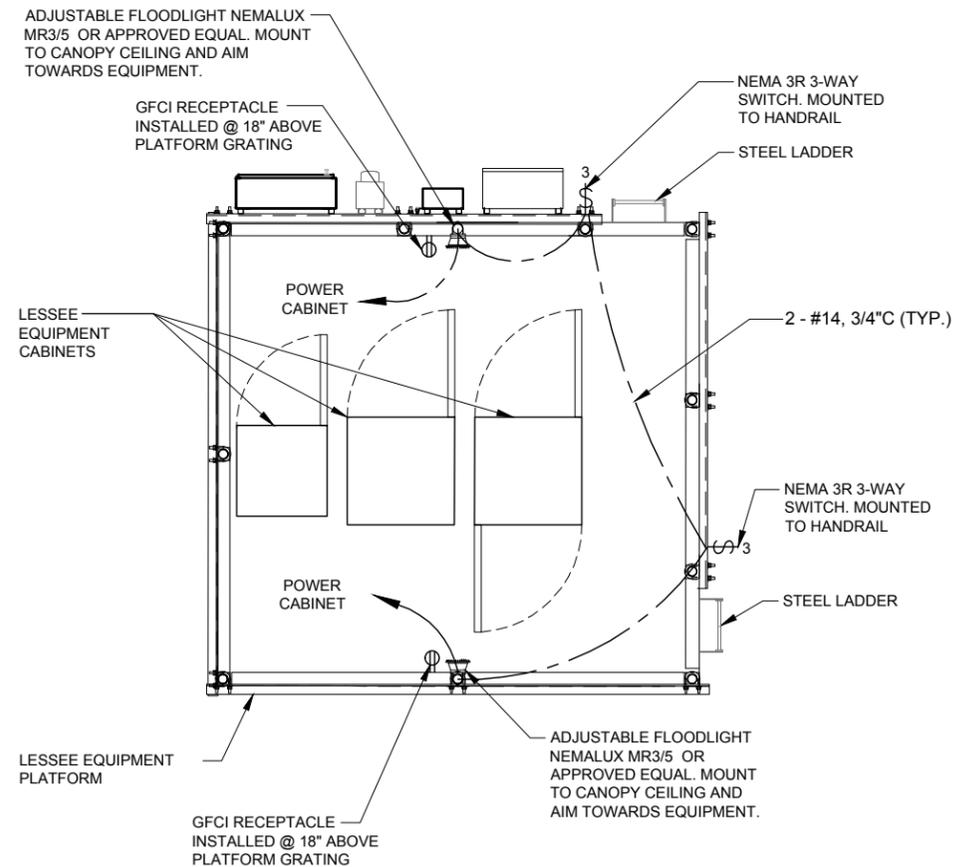
E-1C

VERIZON WIRELESS PANEL "A" SCHEDULE									
MAIN: 200/2		VOLTAGE: 120/240		PHASE: 1		WIRE: 3			
DESCRIPTION	BRKR.	WATTS	S _G	A	B	S _N	WATTS	BRKR.	DESCRIPTION
SPACE			1			2			SPACE
SPACE			3			4			SPACE
SPACE			5			6			SPACE
SPACE			7			8			SPACE
SPACE			9			10			SPACE
SPACE			11			12			SPACE
SPACE			13			14			SPACE
SPACE			15			16			SPACE
SPACE			17			18			SPACE
SPACE			19			20			SPACE
SPACE			21			22			SPACE
SPACE			23			24			SPACE
SPACE			25			26			SPACE
SPACE			27			28			SPACE
SPACE			29			30			SPACE
EXTERIOR LIGHTS	20/1	1800	31			32			SPACE
GFCI RECEPTACLE	20/1	1800	33			34	1800	20/1	GFCI RECEPTACLE
GEN BATTERY CHARGER	20/1	1800	35			36	1850	20/1	GEN. BLOCK HEATER & CHARGER

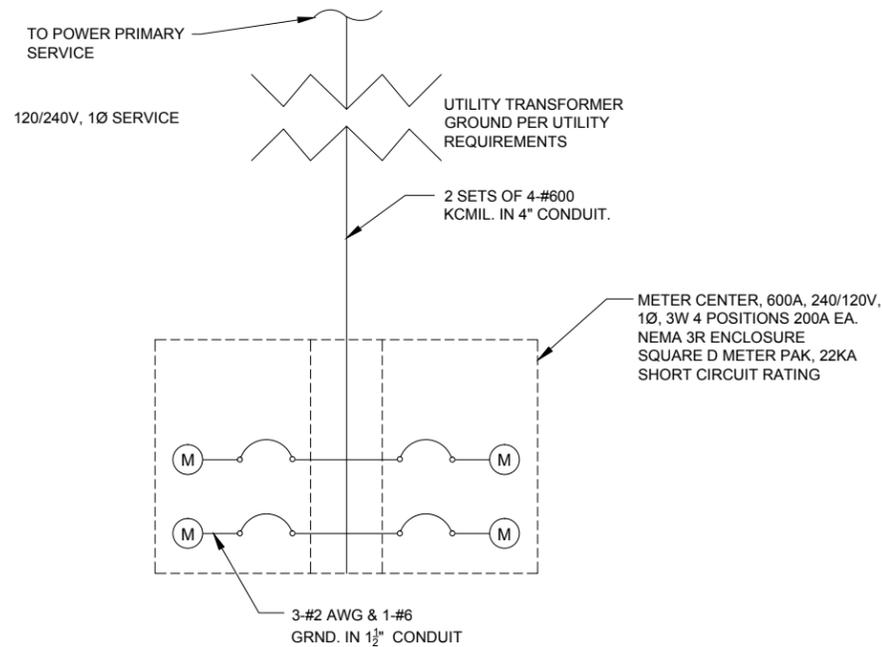
SURFACE MOUNTED NEMA 3R w/DOOR
 22K AIC BREAKERS
 (CONTRACTOR SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

NOTE:
 VERIZON WIRELESS EQUIPMENT
 ENGINEERING TO SUPPLY BREAKER
 FOR RADIO AND POWER CABINETS

1 PANEL BOARD SCHEDULE
 N.T.S.



2 PLATFORM LIGHTING PLAN
 SCALE: N.T.S.



2 POWER ONE LINE DIAGRAM
N.T.S.

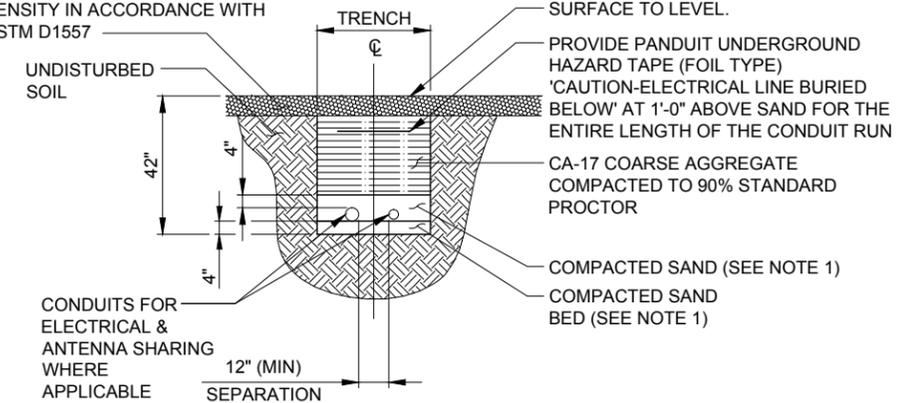
ELECTRICAL NOTES:

1. SUBCONTRACTOR SHALL PROVIDE 600AMP, SINGLE PHASE, 120/240 VAC, 60HZ SERVICE FOR SITE
2. SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION, POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
4. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
5. SUBCONTRACTOR SHALL VERIFY THAT MAIN BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL IS SERVICE ENTRANCE EQUIPMENT

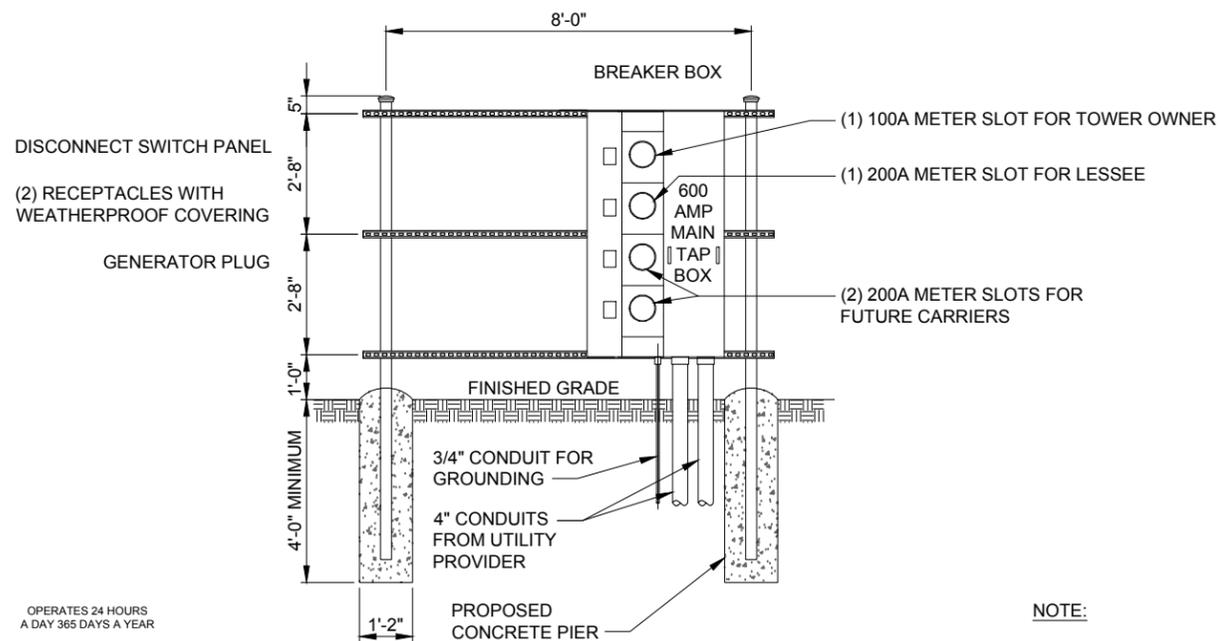
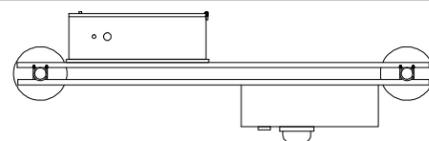
NOTES:

1. LEAN CONCRETE, RED-COLORED TOP, MAY BE USED IN PLACE OF COMPACTED SAND.
2. BURY CONDUITS 42" BELOW GRADE OR 6" BELOW FROST LINE, WHICHEVER IS GREATER
3. CONDUIT SIZE, TYPE, QUANTITY AND SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS

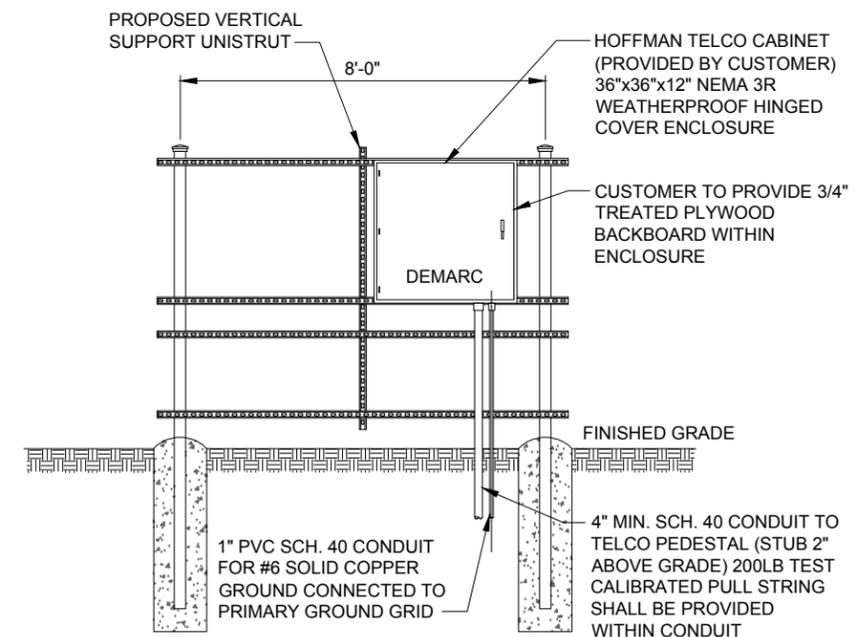
RETURN ORIGINAL MATERIAL TO TRENCH, COMPACT TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D1557



3 UTILITY TRENCH DETAIL
SCALE: N.T.S.



FRONT



REAR

NOTE:

1. ALL ELECTRICAL PLUMBING MUST BE VERIFIED PRIOR TO INSTALLATION BY CONTRACTOR AND MUST MEET GOVERNING CODES, NO EXCEPTIONS.
2. 1 36" x 36" x 12" NEMA 3R ENCLOSURE (HOFFMAN A-20R20BHCR OR SIMILAR)

1 MULTI-GANG UTILITY H-FRAME DETAILS
N.T.S.



CENTRAL STATES TOWER III, LLC



NO.	DATE	BY	DESCRIPTION
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3.	12/28/15	MT	ISSUED FOR FIBER COORDINATION
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6.	03/22/16	JTM	ISSUED FOR FINAL
	04/04/16	BTE	REMOVED PLATFORM CANOPY

IL-00-5999
SHOPPES OF GRAND PRAIRIE

W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
SINGLE LINE DIAGRAM AND DETAILS

SHEET NUMBER
E-2



ELECTRICAL INSTALLATION NOTES

1. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS THE NATIONAL ELECTRICAL CODE (N.E.C.), AND ALL APPLICABLE LOCAL CODES.
2. WIRING RACEWAY AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE N.E.C.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE N.E.C.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER PHASE CONDUCTOR (I.E., HOTS), GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH N.E.C. & OSHA
6. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH PLASTIC TAPE PER COLOR SCHEDULE, ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E. PANEL BOARD AND CIRCUIT ID'S).
7. PANEL BOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH PLASTIC LABELS.
8. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
9. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#14 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
10. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE NOTED.
11. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#14 AWG OR LARGER) 600 V, OIL RESISTANT THHN OR THHN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90° C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR LOCATION USED, UNLESS OTHERWISE SPECIFIED.
12. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE)
13. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
14. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
15. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
16. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
17. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED; IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
18. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREWS FITTINGS ARE NOT ACCEPTABLE.
20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE, AND N.E.C.
21. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL) AND RATED NEMA 1 (OR BETTER).
22. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1(OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS

23. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED; OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
24. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
25. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
26. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY

GROUNDING NOTES

1. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE N.E.C.
2. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
3. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT & PROVIDE TESTING RESULTS.
4. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
5. METAL RACEWAY SHALL NOT BE USED AS THE N.E.C. REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE N.E.C., SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
6. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
7. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
8. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
9. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED.
10. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
11. ALL GROUND CONNECTIONS ABOVE GRADE (INTERIOR & EXTERIOR) SHALL BE FORMED USING HIGH PRESS CRIMPS.
12. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
13. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
14. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
15. ALL EXTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
16. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE N.E.C.
17. BOND ALL METALLIC OBJECTS WITHIN 6 FT. OF MAIN GROUND WIRES WITH (1) #2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
18. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.



CENTRAL STATES TOWER III, LLC



600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

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IL-00-5999
SHOPPES OF GRAND PRAIRIE
W AMERICAN PRAIRIE DR
PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

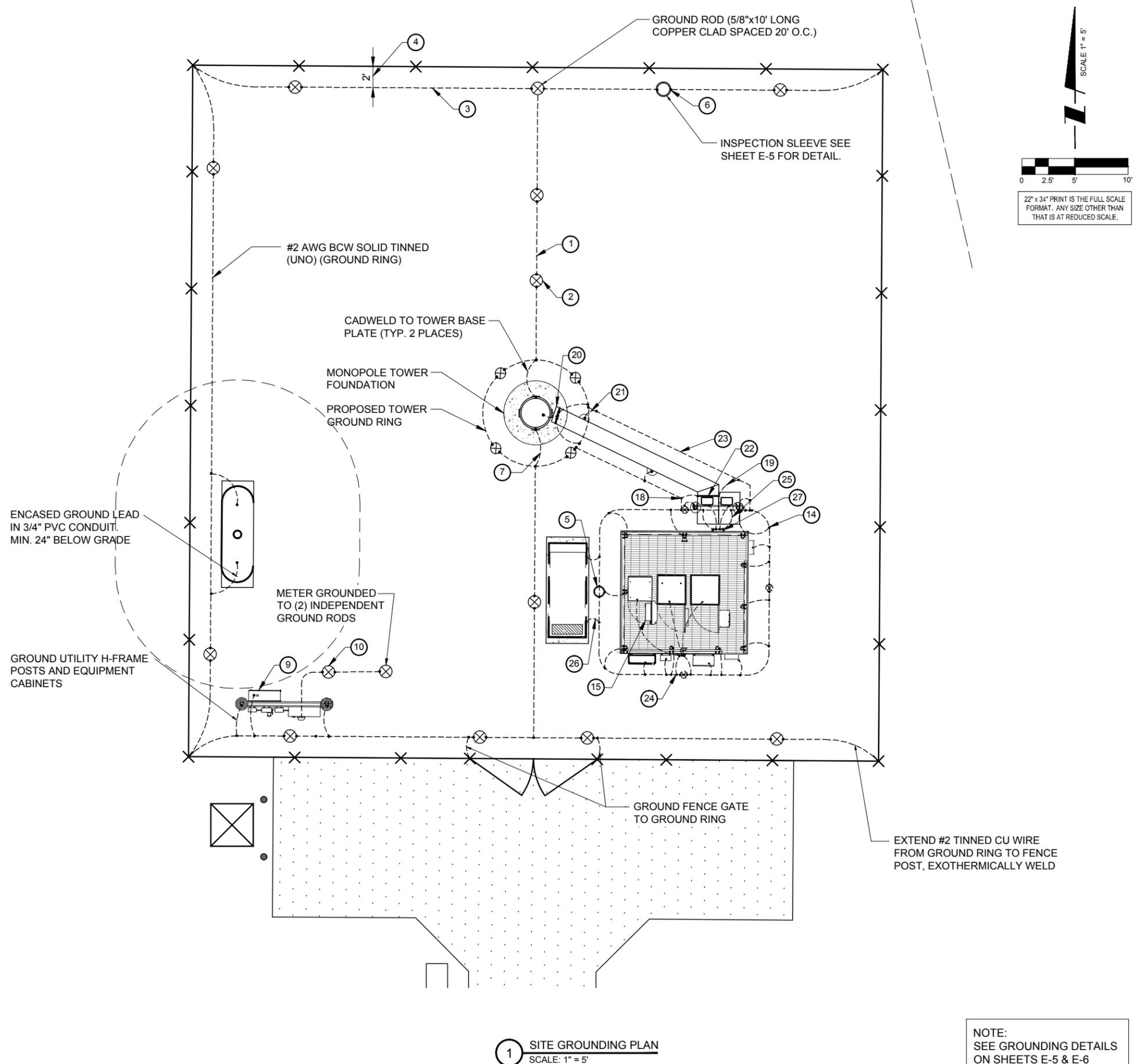
SHEET TITLE
ELECTRICAL AND GROUNDING NOTES

SHEET NUMBER
E-3

TYPICAL KEYED GROUNDING NOTES (1)

- 1 #2 AWG TNNND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS
- 2 5/8" x 10' COPPER CLAD GROUND ROD
- 3 GROUND ALL CORNER POSTS WITH MECHANICAL PIPE CONNECTORS
- 4 PERIPHERAL GROUND RING SHOULD BE INSTALLED 1'-2" INSIDE THE FENCE LINE, THE TOWER GROUND RING SHOULD BE INSTALLED A MINIMUM TWO FEET OFF OF ANY STRUCTURE
- 5 5/8"Ø 10' LONG COPPERCLAD GROUND ROD WITH INSPECTION WELL, TOP OF GROUND ROD MAX 24" BURY, SEE DETAIL SHEET E-5.
- 6 INSPECTION WELL #2
- 7 BOND TOWER TO GROUND SYSTEM WITH CADWELD TYPE VS, 4 LOCATIONS
- 8 GATE JUMPERS SEE DETAIL ON SHEET E-5
- 9 PROVIDE AN EXTERNAL #2 TNNCOATED GROUND LEAD FROM GROUND RING TO ALL METAL CABINETS ON UTILITY BACKBOARD (TELCO, ELEXTRIC, BREAKER PANELS, METER RACKS, JUNCTION BOXES, ETC.) SLEEVED IN CONDUIT FROM JUST BELOW GRADE TO SAND CABINETS USING BURNDY TYPE 2 LONG BARREL LUGS WITH NO-OK OR COPPER SHIELD
- 10 ELECTRIC METER AND ELECTRIC SERVICE GROUNDING COORDINATE ALTERNATE WITH PM
- 11 24" x 30" x 24" FIBER OPTIC HAND HOLE
- 12 4" x 12" x 1/4" GROUND BAR INSIDE OF HAND HOLE. G.C. TO DRIVE 10' GROUND ROD & CLAMP TO GROUND BAR (SEE DETAIL 9, SHEET E-7)
- 13 MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES.
- 14 PLATFORM CORNER POST, STEEL COLUMN, STEEL BEAM & CANOPY GROUND
- 15 CABINET GROUND BOLTED TO UNIT HOUSING
- 16 VZW DISCONNECT AND ELECTRIC SERVICE GROUND TO GROUND ROD
- 17 GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION (TYPE VS) GROUND FENCE POSTS WITHIN 6 FEET OF PLATFORM AND 25 FEET OF TOWER.
- 18 GROUND COAXIAL ANTENNA CABLES TO GROUND BAR BY ANTENNA CONTRACTOR TERMINATE CABLES 1'-0" FROM PLATFORM AND INSTALL LIGHTNING SURGE ARRESTORS ON EACH CABLE GROUND.
- 19 EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO HALO GROUND RING (EXOTHERMIC CONNECTION TYPE TA) BY ANTENNA CONTRACTOR. FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- 20 4"x20"x1/4" TNNND INSULATED COPPER GROUND BA, NON ISOLATED WITH 10.0' LONG #2 AWG TNNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW)
- 21 GROUND CABLE WAVEGUIDE BRIDGE (TYP.) BY ELECTRICAL CONTRACTOR.
- 22 4"x20"x1/4" TNNND INSULATED COPPER GROUND BAR, NON-ISOLATED, WITH 10.0' LONG #2 AWG TNNND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VW)
- 23 BOND TOWER GROUND RING TO PROPOSED PLATFORM GROUND RING WITH #2 AWG TNNND SOLID COPPER CONDUCTOR IN 2 LOCATIONS.
- 24 TWO #2 LEADS FROM THE EGR TO THE GROUND BAR AT UTILITY FRAME LOCATED ON PLATFORM STEEL. CADWELD AT EGR AND DOUBLE HOLE LUGS ON PLATFORM.
- 25 BOND RAYCAP TO MGB.
- 26 EXTEND GROUND CONDUCTORS IN 1/2" RIGID H.W. CONDUIT ADJACENT TO PAD, OFFSET AND ATTACH TO EXTERIOR OF GENERATOR HOUSING AND EXTEND TO GROUND LUGS AS REQUIRED, VERIFY LOCATION WITH GENERAC.
- 27 MGB MOUNTED UNDER PERIMETER BEAM
- 28 EXISTING TOWER OR COMPOUND GROUND RING (V.I.F.)
- 29 EACH TOWER FOUNDATION TO HAVE AT LEAST ONE ANCHOR BOLT BONDED TO TOWER GROUND RING WITH #2 TINNED SOLID COPPER CONDUCTOR

LEGEND:			
	GROUND BAR OR ARRESTOR BAR		SPARE GROUND LEAD
	5/8"Ø x 10'-0" GROUND ROD		MECHANICAL CONNECTION
	GROUND SYSTEM TEST WELL		EXISTING GROUNDING
	CADWELD OR APPROVED CONNECTION		NEW GROUNDING



1 SITE GROUNDING PLAN
SCALE: 1" = 5'

NOTE:
SEE GROUNDING DETAILS
ON SHEETS E-5 & E-6

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TERRA CONSULTING GROUP, LTD.
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PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

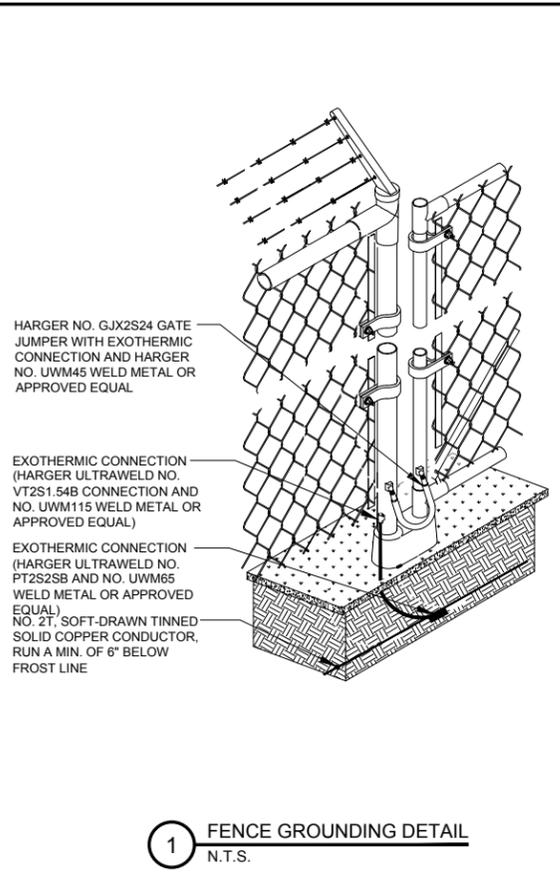
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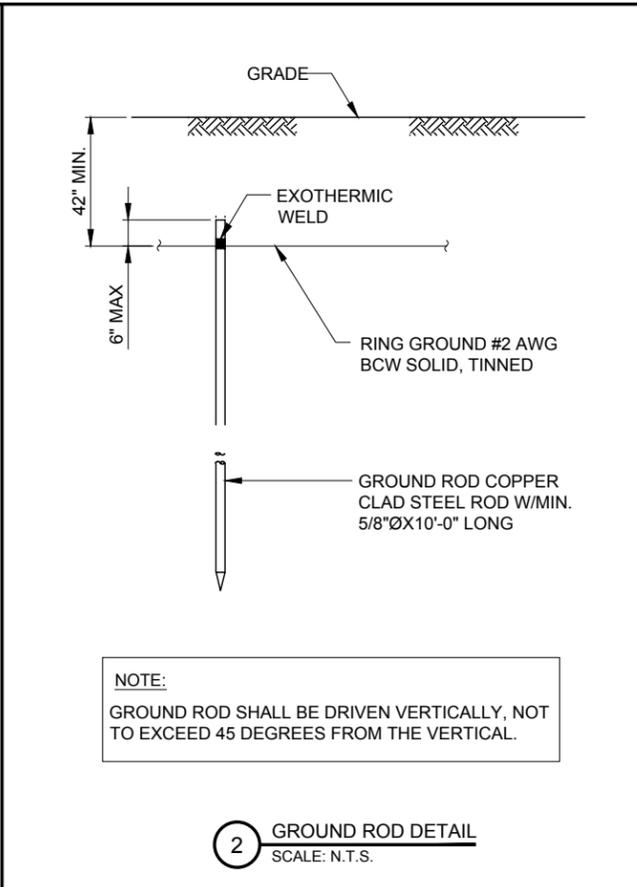
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-4

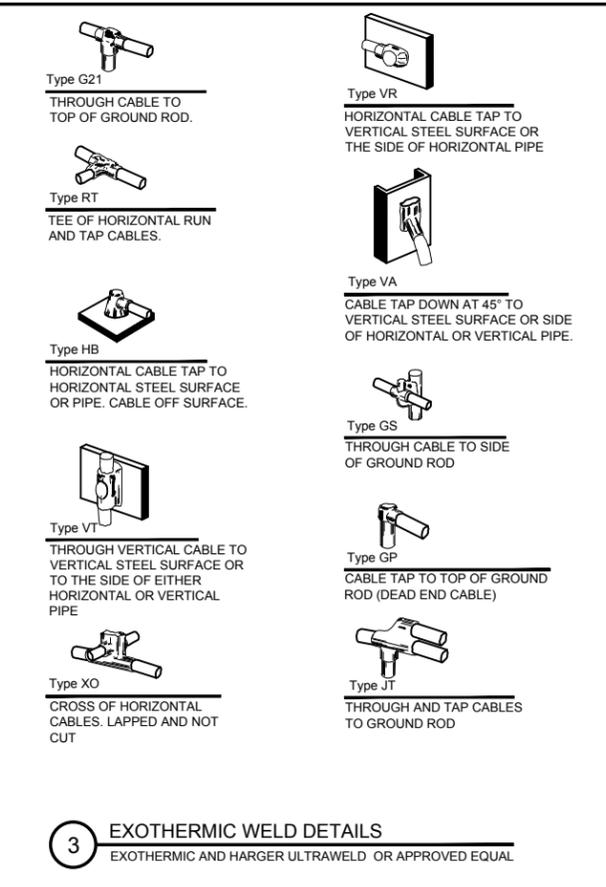


1 FENCE GROUNDING DETAIL
N.T.S.

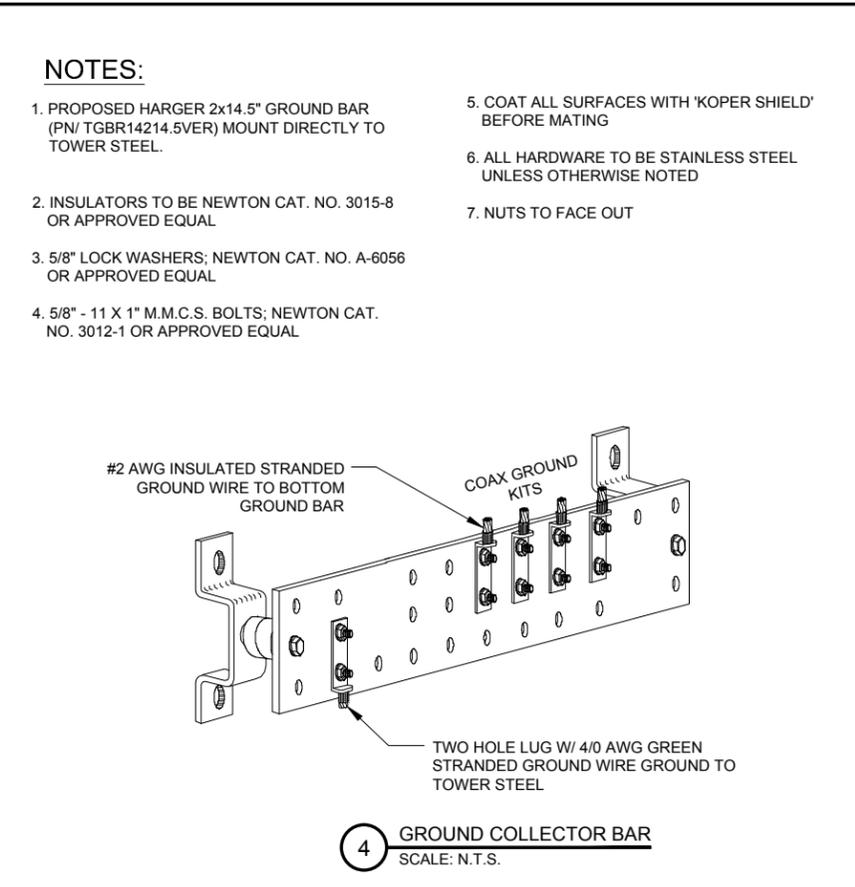


NOTE:
GROUND ROD SHALL BE DRIVEN VERTICALLY, NOT TO EXCEED 45 DEGREES FROM THE VERTICAL.

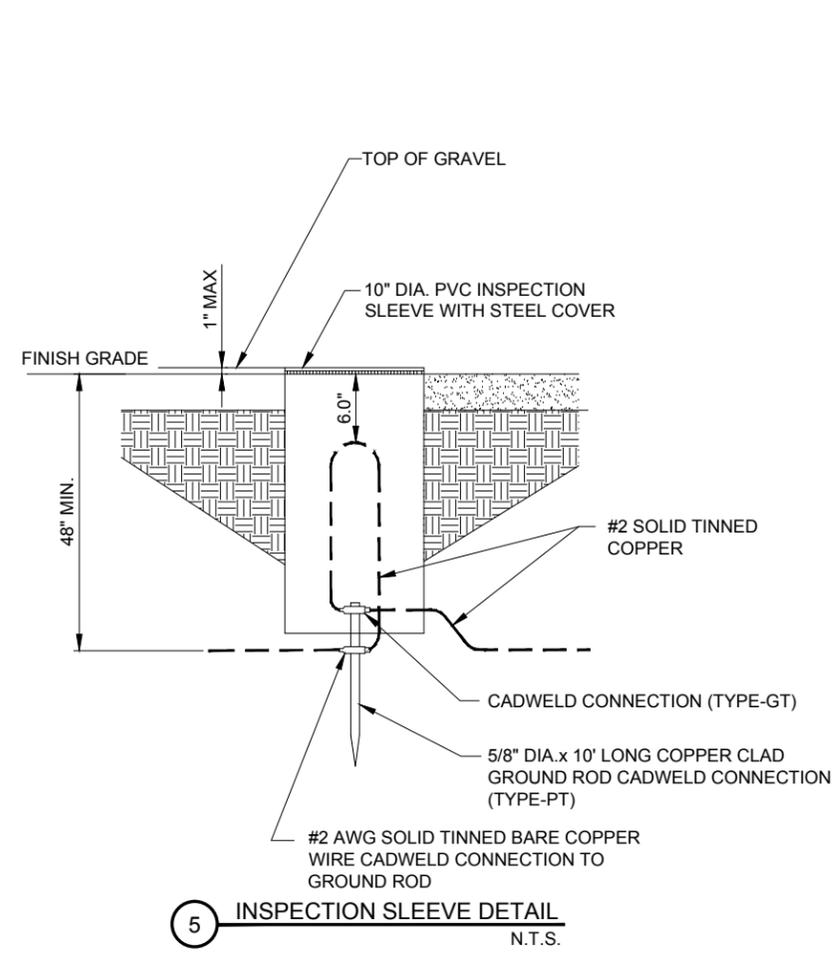
2 GROUND ROD DETAIL
SCALE: N.T.S.



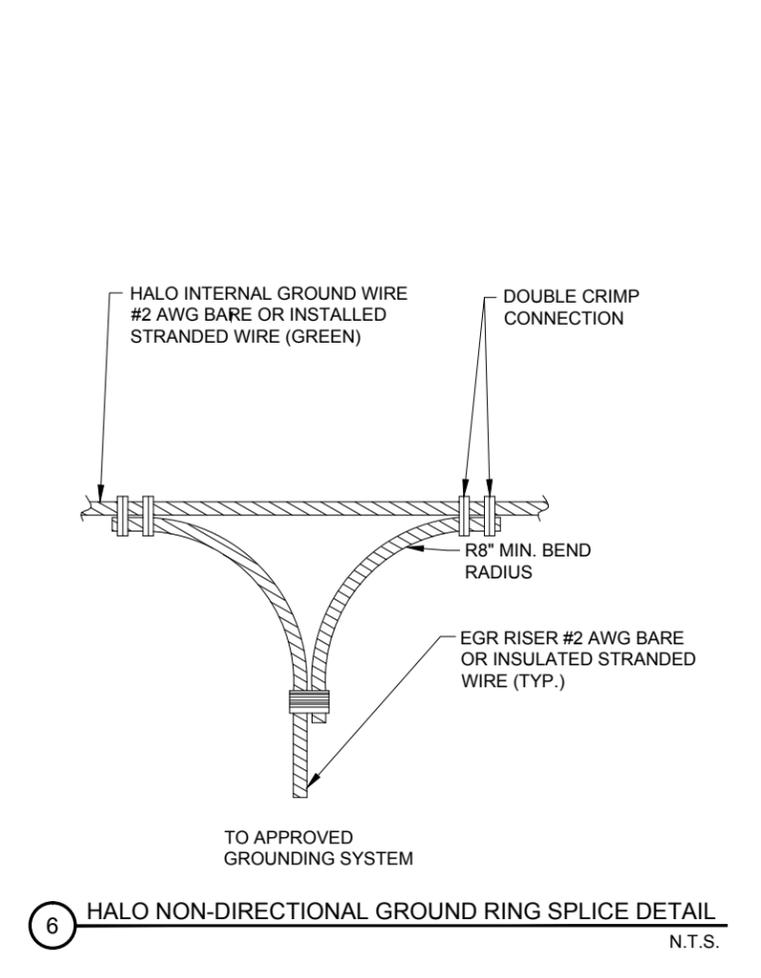
3 EXOTHERMIC WELD DETAILS
EXOTHERMIC AND HARGER ULTRAWELD OR APPROVED EQUAL



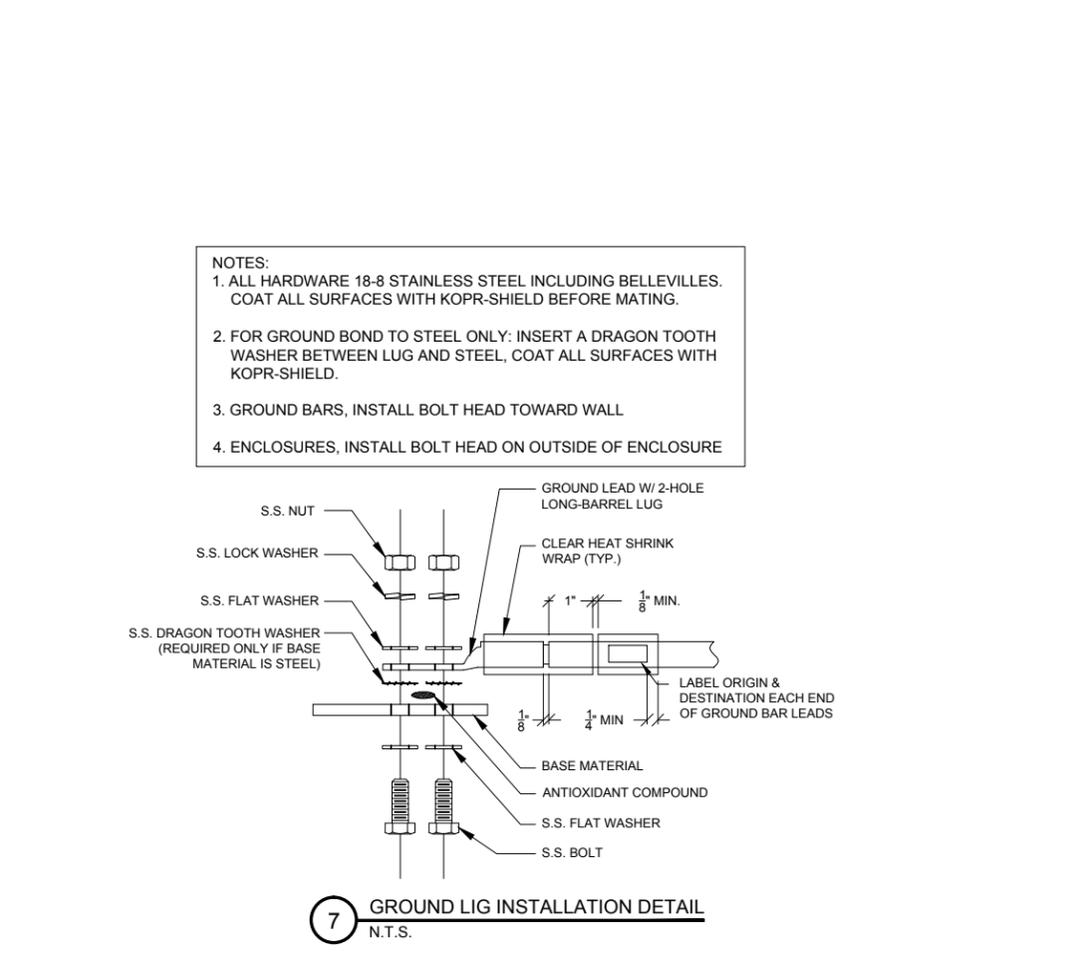
4 GROUND COLLECTOR BAR
SCALE: N.T.S.



5 INSPECTION SLEEVE DETAIL
N.T.S.



6 HALO NON-DIRECTIONAL GROUND RING SPLICE DETAIL
N.T.S.



7 GROUND LIG INSTALLATION DETAIL
N.T.S.



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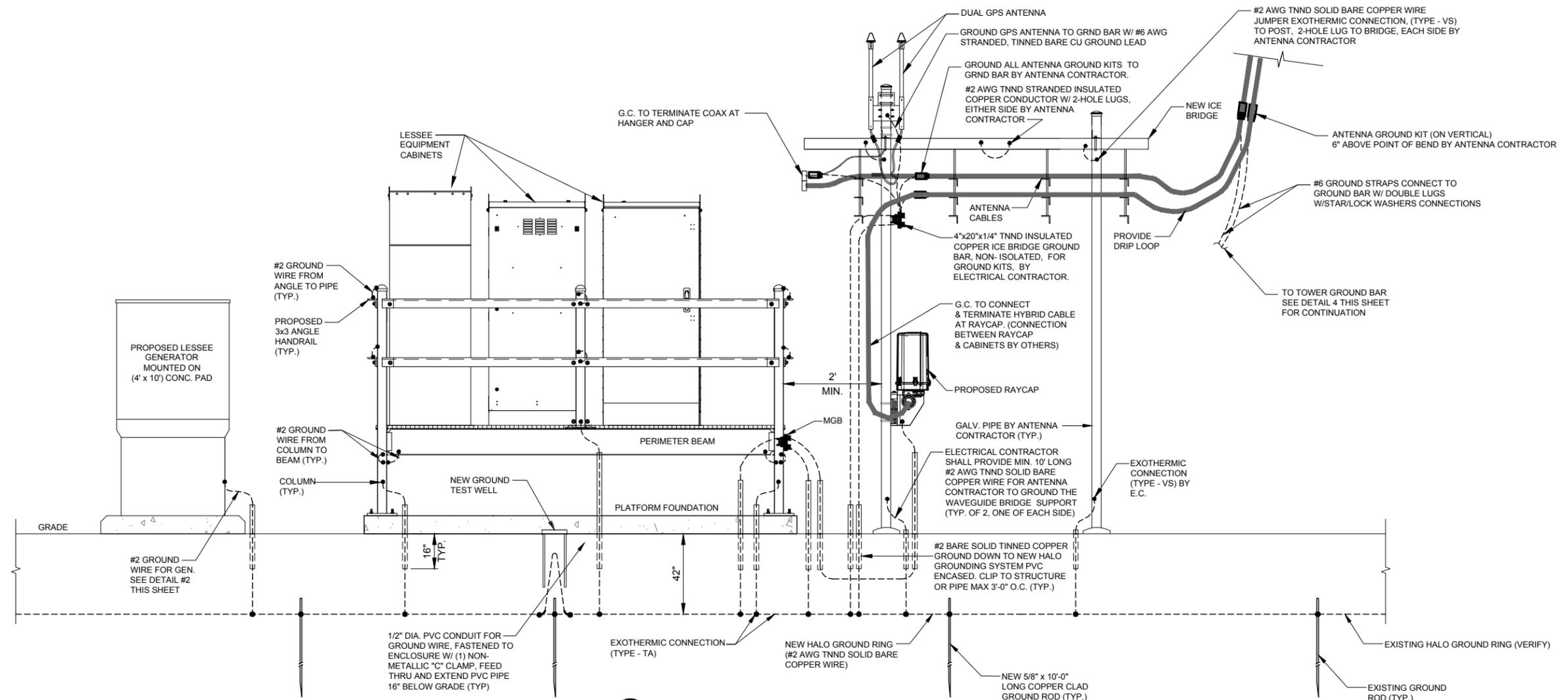
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-5

NOTE:
ANTENNA CABLES SHALL BE
GROUNDED AT THE
ANTENNA HEIGHT OF TOWER

NOTE:
ALL CABINET GROUND
CONNECTION BY OTHERS.



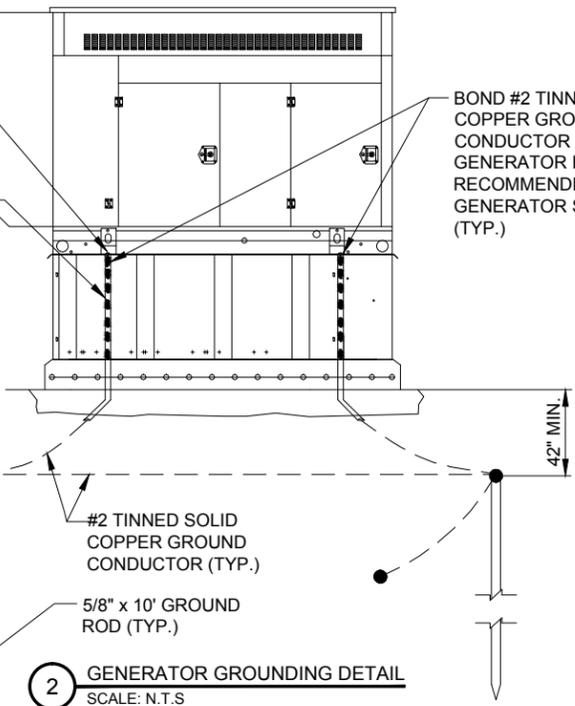
1 TYPICAL SITE GROUNDING DETAIL
SCALE: N.T.S.

PROVIDE LB'S INTO SIDE OF GENERATOR.

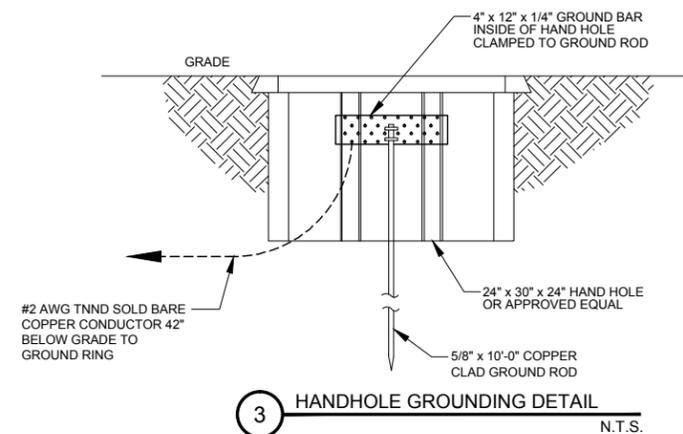
EXTEND GROUND CONDUCTORS IN 1/2" RIGID H.W. CONDUIT ADJACENT TO PAD, OFFSET AND ATTACH TO EXTERIOR OF GENERATOR HOUSING AND EXTEND TO GROUND LUGS AS REQUIRED, VERIFY LOCATION WITH GENERAC.

BOND #2 TINNED SOLID COPPER GROUND CONDUCTOR TO GENERATOR FRAME AS RECOMMENDED BY GENERATOR SUPPLIER. (TYP.)

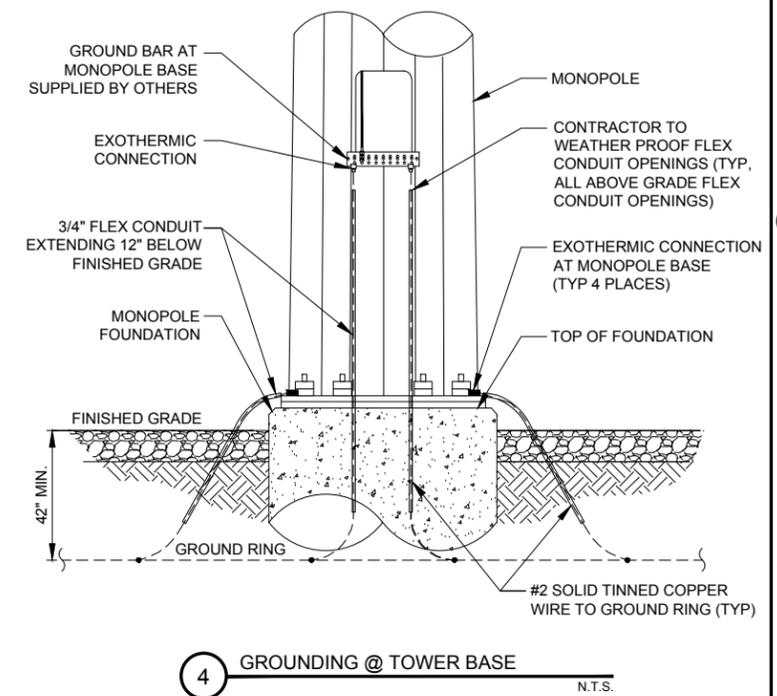
EXTEND #2 TINNED SOLID COPPER GROUND CONDUCTOR TO EXISTING BUILDING GRID, TYP.



2 GENERATOR GROUNDING DETAIL
SCALE: N.T.S.



3 HANDHOLE GROUNDING DETAIL
N.T.S.



4 GROUNDING @ TOWER BASE
N.T.S.



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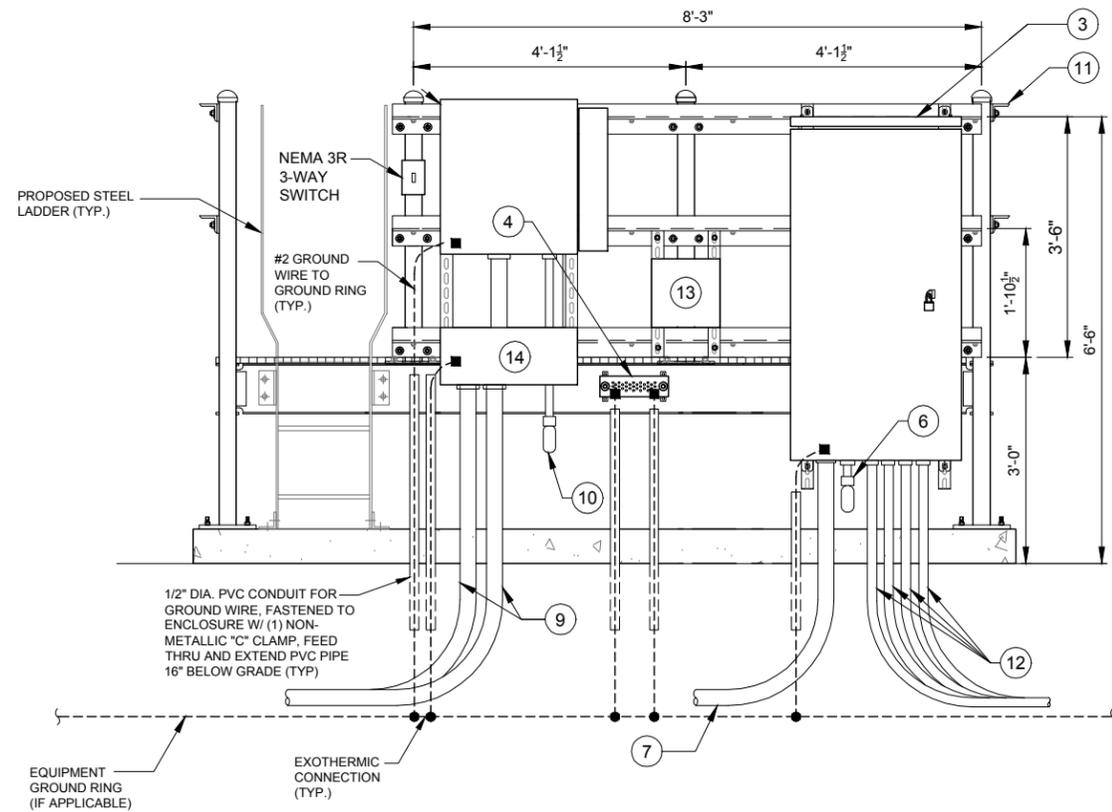
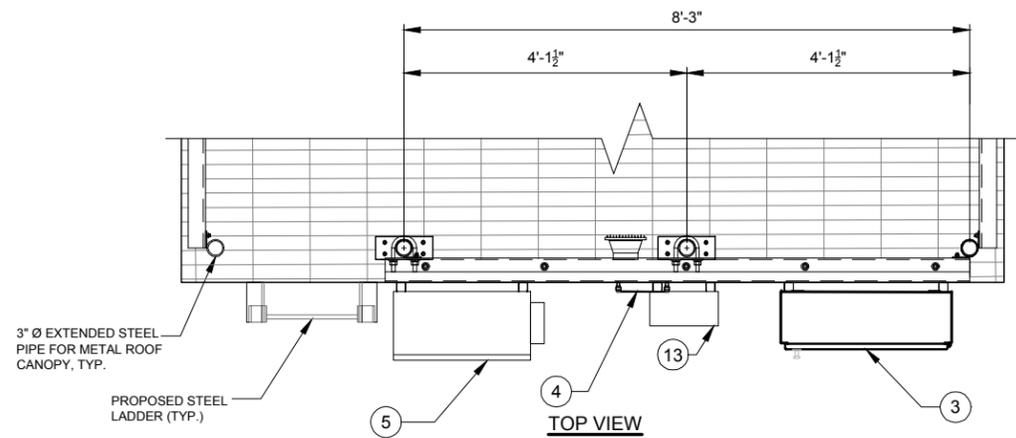
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DATE: 07/17/15
PROJECT #: 50-168

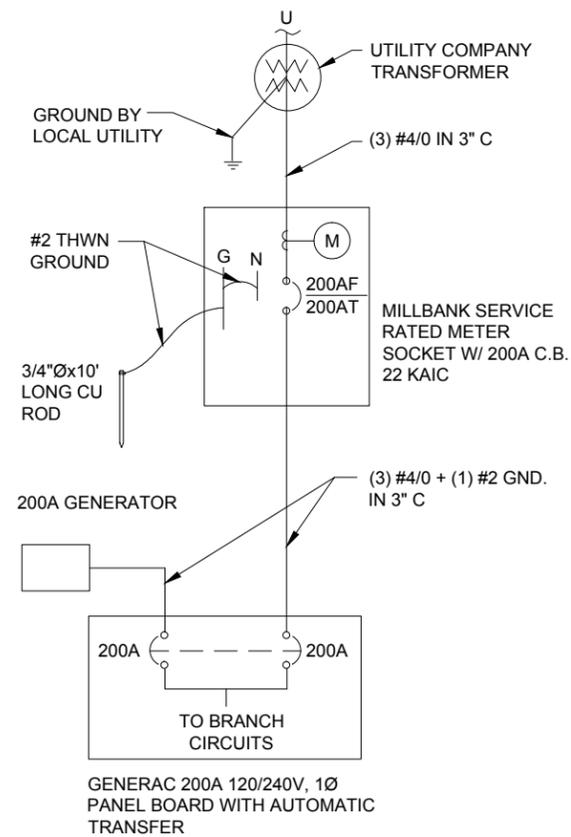
SHEET TITLE
ELECTRICAL & GROUNDING DETAILS

SHEET NUMBER
E-6

- 1 NOT USED.
- 2 NOT USED.
- 3 200A ILC W/ ATS MOUNTED TO PLATFORM RAILING. ILC TO BE PROVIDED BY VERIZON WIRELESS AND INSTALLED BE GC.
- 4 EQUIPMENT GROUND BAR
- 5 FIBER CABINET - CHARLES CUBE - RL1003A-A (26x22x20)
- 6 2" Ø POWER CONDUIT TO EQUIPMENT CABINET (BY OTHERS)
- 7 PROPOSED (3) #4/0 UNDERGROUND + (1) #2 GD. SECONDARY ELECTRIC SERVICE IN 3" DIAMETER SCHEDULE 40 PVC
- 8 NOT USED
- 9 (2) 4" FIBER CONDUITS WITH (2) 1-1/4" INNERDUCTS IN EACH CONDUIT FROM FIBER SOURCE TO FIBER ENCLOSURE AT EQUIPMENT AREA
- 10 (1) 2" Ø FIBER CONDUITS TO EQUIPMENT CABINET (BY OTHERS)
- 11 HORIZONTAL SUPPORT MEMBER (UNISTRUT P1000, OR APPROVED EQUAL)
- 12 UNDERGROUND CONDUITS FOR GENERATOR SEE SHEET E-1A
- 13 12"x12"x6" NEMA-3 DRY CONTACT ALARMS FOR ILC AND GENERATOR. LEAVE (2) 25' OF CAT 5 COILED IN BOX FOR EQUIPMENT ENGINEER (4 GEN ALARMS AND COMM PWR, SURGE ARRESTOR.)
- 14 10"x10"x24" LONG NEMA TYPE 3R WIRE THROUGH



1 UTILITY H-FRAME DETAIL
SCALE: N.T.S.



2 SINGLE LINE DIAGRAM
N.T.S.



NO.	DESCRIPTION	DATE	BY
1.	REVISED PER POWER COORDINATION	12/28/15	JTM
2.	ISSUED FOR FIBER COORDINATION	01/18/16	MT
3.	UPDATED TO CABINET LAYOUT	10/23/15	SEA
4.	UPDATE PER CLIENT COMMENTS	02/08/16	JTM
5.	ISSUED FOR FINAL	03/22/16	JTM
6.	REMOVED PLATFORM CANOPY	04/04/16	BTE
7.	UPDATE PER LL COMMENTS	04/14/16	BTE

IL-00-5999
SHOPPES OF GRAND PRAIRIE
 W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

DRAWN BY:	PP
CHECKED BY:	TAZ
DATE:	07/17/15
PROJECT #:	50-168

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-7



1 EXISTING OVERALL SITE
SCALE: N.T.S.



2 EXISTING OVERALL SITE
SCALE: N.T.S.



3 EXISTING TRANSFORMER
SCALE: N.T.S.



CENTRAL STATES TOWER III, LLC



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IL-00-5999
**SHOPPES OF
 GRAND PRAIRIE**
 W AMERICAN PRAIRIE DR
 PEORIA, IL 61615

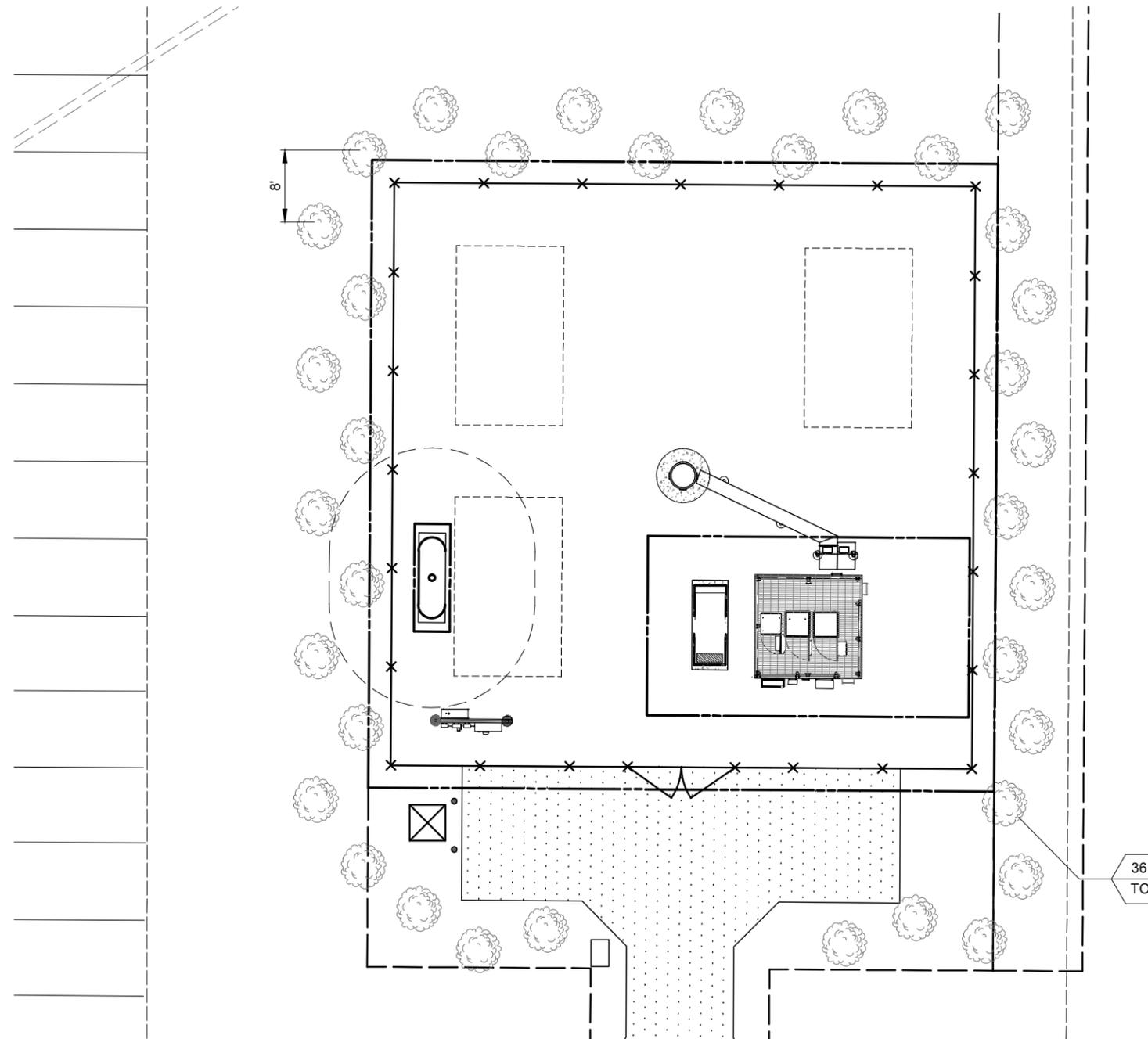
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SHEET TITLE
 EXISTING SITE PHOTOS

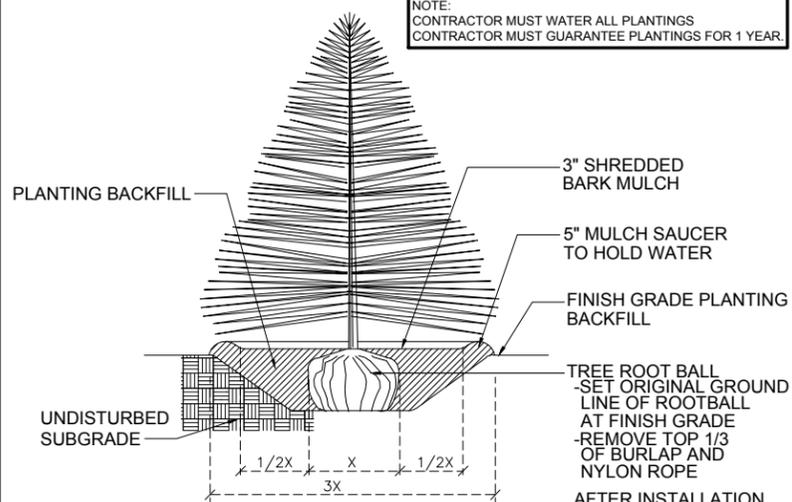
SHEET NUMBER
P-1

GENERAL LANDSCAPE NOTES

- PRUNE NEWLY INSTALLED SHRUBS. WORK SHALL BE DONE BY EXPERIENCED PERSONNEL TO THE ACCEPTED HORTICULTURAL AND ARBORICULTURAL STANDARDS. PRUNING SHALL RESULT IN A LOOSE OUTLINE CONFORMING TO THE GENERAL SHAPE OF THE SHRUB TYPE. DO NOT USE HEDGE SHEARS.
- ALL PLANTING STOCK SHALL BE NURSERY-GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. PLANTS SHALL BE FREE OF DISEASE, INSECTS EGGS, LARVAE AND DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS OR DISFIGUREMENT. THEY SHALL HAVE SOUND, HEALTHY VIGOROUS AND UNIFORM GROWTH TYPICAL OF THE SPECIES AND VARIETY, WELL-FORMED, FREE FROM IRREGULARITIES, WITH THE MINIMUM QUALITY AND SIZE CONFORMING TO AMERICAN STANDARD FOR NURSERY STOCK.
- GUARENTEE: WARRANT ALL PLANT MATERIAL TO BE TRUE TO BOTANICAL NAME AND SPECIFIED SIZE. AFTER COMPLETION OF PLANTING, ALL PLANT MATERIALS SHALL BE WARRANTED AGAINST DEFECTS, INCLUDING DEATH AND UNSATISFACTORY GROWTH FOR A WARRANTY PERIOD OF ONE YEAR. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEFECTS RESULTING FROM NEGLECT ABUSE, DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS BEYOND THE CONTRACTORS CONTROL WHICH RESULT FROM NATURAL CAUSES SUCH AS FLOODS STORMS, FIRES OR VANDALISM.
REPLACEMENTS: DURING THE WARANTY PERIOD, REPLACE ONE TIME, AT NO ADDITIONAL COST TO THE OWNER, PLANT MATERIALS THAT ARE DEAD, OR IN THE OPINION OF THE LANDSCAPE ARCHITECT, IN AN UNHEALTHY OR UNSIGHTLY CONDITION. REJECTED PLANT MATERIALS SHALL BE REMOVED FROM THE SITE AT CONTRACTOR'S EXPENSE. REPLACEMENTS ARE TO BE MADE NO LATER THAN THE SUBSEQUENT PLANTING SEASON. RESTORE AREAS DISTURBED BY REPLACEMENT OPERATIONS.
- MULCHING SHALL BE DONE WITHIN 48 HOURS AFTER PLANTING. MULCH SHRUB BEDS TO A UNIFORM DEPTH OF THREE INCHES. MULCH SHALL BE CLEAN COMPOSTED PINE BARK MULCH FREE OF FOREIGN MATERIAL AND LARGE PIECES OVER THREE INCHES LONG. DO NOT MULCH TREE AND SHRUB PLANTING PITS.
- TOPSOIL SHALL CONSIST OF FERTILE FRIABLE NATURAL LOAM, CONTAINING A LIBERAL AMOUNT OF HUMUS AND SHALL BE SUBJECT TO INSPECTION AND APPROVAL. IT SHALL BE FREE OF ADMIXTURES OF SUBSOIL AND FREE OF CRAB GRASS, ROOTS, STICKS AND OTHER EXTRANEIOUS MATTER, AND SHALL NOT BE USED FOR PLANTING OPERATIONS WHILE IN A FROZEN OR MUDDY CONDITIONS.
- REPAIR ALL TURF AREAS BY SEEDING. SEEDING INSTALLATION SHALL BE EXECUTED ONLY AFTER ALL FINISH GRADING HAS BEEN COMPLETED. NO SEEDING WORK SHALL BE DONE PAST SEPTEMBER 15, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE.
SEED: SEED MIX SHALL MATCH EXISTING TURF, OR BE A 50/50 MIX OF CERTIFIED IMPROVED BLEND OF BLUEGRASS AND CERTIFIED IMPROVED PERENNIAL RYE. MIX SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING. SEEDING SHALL BE APPLIED AT A MINIMUM RATE OF 120 POUNDS PER ACRE. FUTERRA BLANKET, OR EQUAL, SHALL BE USED FOR EROSION CONTROL MULCH WHERE NECESSARY IN LIEU OF HYDRO MULCH.



NOTE:
CONTRACTOR MUST WATER ALL PLANTINGS
CONTRACTOR MUST GUARANTEE PLANTINGS FOR 1 YEAR.



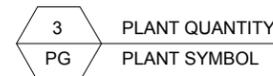
1 EVERGREEN TREE PLANTING
N.T.S.

NOTE:
PROPERTY OUTSIDE THE
LEASE AREA NEEDS TO BE
SODDED & SEEDED.

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
TO	THUJA OCCIDENTALIS	AMERICAN ARBORVITAE	36	6 FT. HT. MIN.	B & B (BALLED & BURLAPPED)

(IF NOT ARBORVITAE ((MOST COMMON)) REFER TO "DIRR'S HARDY" LANDSCAPE BOOK AND/OR INTERNET SEARCH ENGINE FOR SYMBOL, BOTANICAL/COMMON NAME. REMOVE THIS NOTE WHEN DONE.



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SHEET TITLE
LANDSCAPE
PLAN

SHEET NUMBER

L-1

