

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

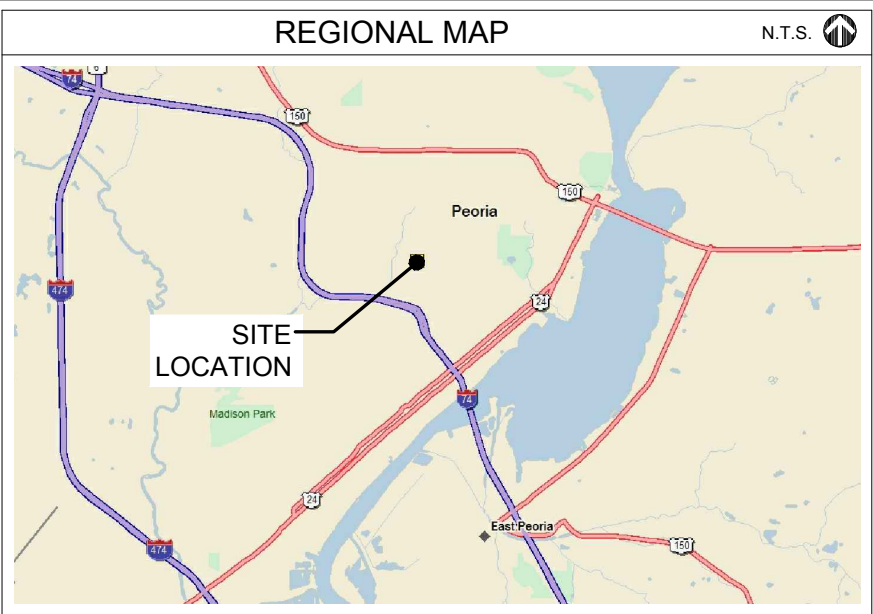
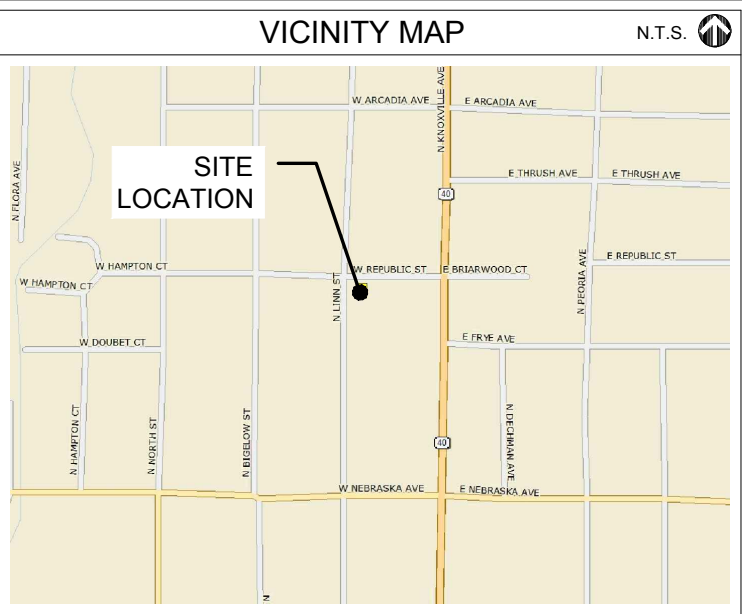
STRUCTURAL: HUTTER TRANKINA ENGINEERING
32 W 273 ARMY TRAIL RD,
SUITE #100
WAYNE, IL 60184
(630) 513-6711

PROJECT TYPE

PROPOSED LESSEE ANTENNAS TO BE MOUNTED ON EXISTING PENTHOUSE WITH PROPOSED 11'-6" x 12'-0" EQUIPMENT PLATFORM ON GROUND.

SITE COORDINATES:
LATITUDE: 40° 42' 46.92" N (1A CERTIFICATION)
LONGITUDE: 89° 35' 43.09" W (1A CERTIFICATION)
ELEVATION: ±609' (1A)

DRIVING DIRECTIONS:
FROM LESSEE OFFICE: START OUT GOING EAST ON E WOODFIELD RD TOWARD MALL DR. TURN RIGHT ONTO W FRONTAGE RD. MERGE ONTO I-290 E VIA THE RAMP ON THE LEFT. KEEP LEFT TO TAKE I-355 S VIA EXIT 7 TOWARD JOLIET (PORTIONS TOLL). TAKE THE I-55 S EXIT, EXIT 12B, TOWARD JOLIET ROAD/ST LOUIS. KEEP LEFT TO TAKE THE RAMP TOWARD JOLIET RD S. MERGE ONTO I-55 S VIA THE RAMP ON THE LEFT TOWARD ST LOUIS. MERGE ONTO I-74 W VIA EXIT 163 TOWARD PEORIA. MERGE ONTO N KNOXVILLE AVE/IL-40 N VIA EXIT 92A. TURN LEFT ONTO W REPUBLIC ST. TAKE THE 1ST LEFT ONTO N LINN ST. DESTINATION WILL BE ON THE LEFT.



APPROVALS

REAL ESTATE: _____

RF: _____

CONSTRUCTION: _____

EQUIPMENT ENGINEERING: _____

OPERATIONS: _____

GENERATOR TYPE: DIESEL

PROJECT INFORMATION

P.I.N. #: 1433378019

ADDRESS: 2112-2118 LINN ST.
PEORIA, IL 61604

UTILITIES: POWER: AMEREN
MICHELLE MCIRVIN
(309) 693-4879
PREMISE # 130812810

FIBER: PEG
MICHAEL GRIFFIN
(214)-620-4245

JURISDICTION: CITY OF PEORIA

OCCUPANCY: UNINHABITED

ZONING: R-6

CONSTRUCTION TYPE: CO LO

PROPERTY OWNER: DAVID E PATCH
351 CATHERINE ST.
PEKIN, IL 61554

CONTACT PERSON: DAVID E PATCH (309) 353-8742

APPLICANT: VERIZON WIRELESS PERSONAL COMMUNICATIONS LP
d/b/a VERIZON WIRELESS
1515 WOODFIELD ROAD, SUITE 1400
SCHAUMBURG, IL 60173
(920) 841-1263

CONSTRUCTION MANAGER: RONALD PAULY (636) 534-4094

REAL ESTATE MANAGER: ERROL OUTARSINGH (847) 706-7995

CHICAGO SMSA

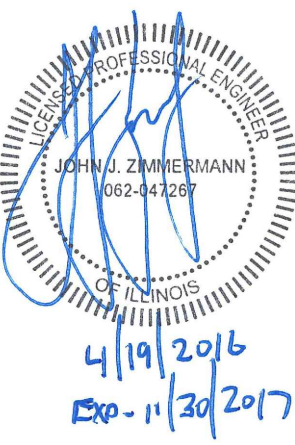
limited partnership

CHICAGO SMSA LIMITED PARTNERSHIP
d/b/a VERIZON WIRELESS
1515 WOODFIELD ROAD, SUITE 1400
SCHAUMBURG, ILLINOIS 60173
PHONE: (847) 619-5397 FAX: (847) 706-7415

LOCATION NUMBER: 313803

SITE NAME: N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604



SHEET	DRAWING INDEX	REVISION
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1 OF 1 NTC-1	PLAT OF SURVEY NOTICE TO CONTRACTOR	- -
ATTACHMENTS		

NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	09/28/15	TJS
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT
3.	ADDITION OF ANTENNA MOUNTS	11/05/15	LS
4.	ADDITION OF NTC	12/01/15	MAP
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
	REVISED ECR	02/26/16	EW

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY: TJS

CHECKED BY: TAZ

DATE: 09/26/15

PROJECT #: 33-1966

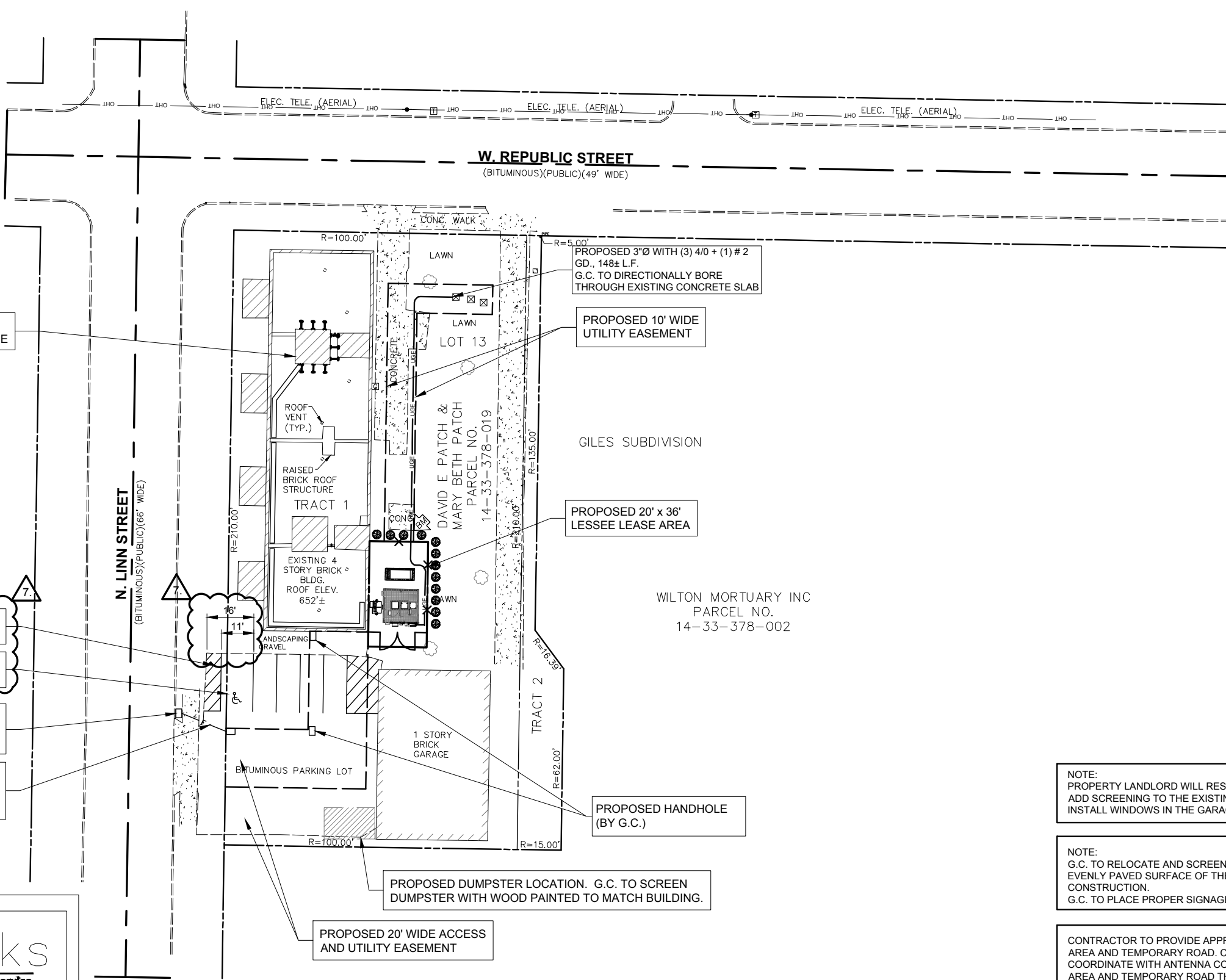
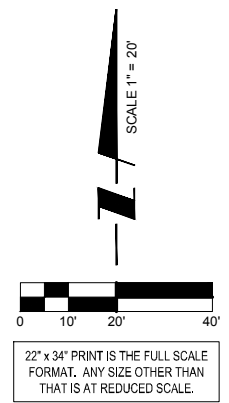
SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1



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



PROPOSED LESSEE ANTENNAS MOUNTED ON EXISTING PENTHOUSE

PROPOSED RE-STRIPING OF PARKING LOT

PROPOSED ADA PARKING DESIGNATION

PROPOSED FIBER HANDHOLE "MEET POINT" (BY FIBER PROVIDER)

PROPOSED HANDHOLE (BY G.C.) BOTH 4" CONDUITS TO TERMINATE AT HANDHOLE

PROPOSED 3"Ø WITH (3) 4/0 + (1) # 2 GD., 148± L.F. G.C. TO DIRECTIONALLY BORE THROUGH EXISTING CONCRETE SLAB

PROPOSED 10' WIDE UTILITY EASEMENT

PROPOSED 20' x 36' LESSEE LEASE AREA

PROPOSED HANDHOLE (BY G.C.)

PROPOSED DUMPSTER LOCATION. G.C. TO SCREEN DUMPSTER WITH WOOD PAINTED TO MATCH BUILDING.

PROPOSED 20' WIDE ACCESS AND UTILITY EASEMENT

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 PERFORMED BY:

Williams & Works
engineers . planners . surveyors a tradition of service

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

BM #1) ELEV. 607.04
SE CORNER OF CONCRETE PAD 15'± EAST OF BLDG. #2112 AND 48'± NORTH OF 1 STORY BRICK GARAGE.

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.

1 LOCATION PLAN
SCALE: 1" = 20'

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.

NOTE:
PROPERTY LANDLORD WILL RESURFACE EAST DRIVEWAY, ADD SCREENING TO THE EXISTING TRANSFORMERS AND INSTALL WINDOWS IN THE GARAGE

NOTE:
G.C. TO RELOCATE AND SCREEN DUMPSTER AND MAINTAIN EVENLY PAVED SURFACE OF THE PARKING LOT DURING CONSTRUCTION.
G.C. TO PLACE PROPER SIGNAGE PER CITY CODE.

CONTRACTOR TO PROVIDE APPROXIMATE 50'x50' 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.

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.

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6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
7.	REVISED ECR	02/26/16	EW

NO.	ISSUED FOR FINAL	ISSUED FOR PERMIT
8.	04/11/16	JTM
9.	04/01/16	JTM

LOC. # 313803

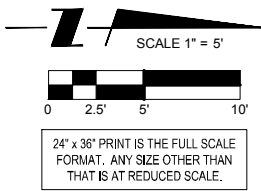
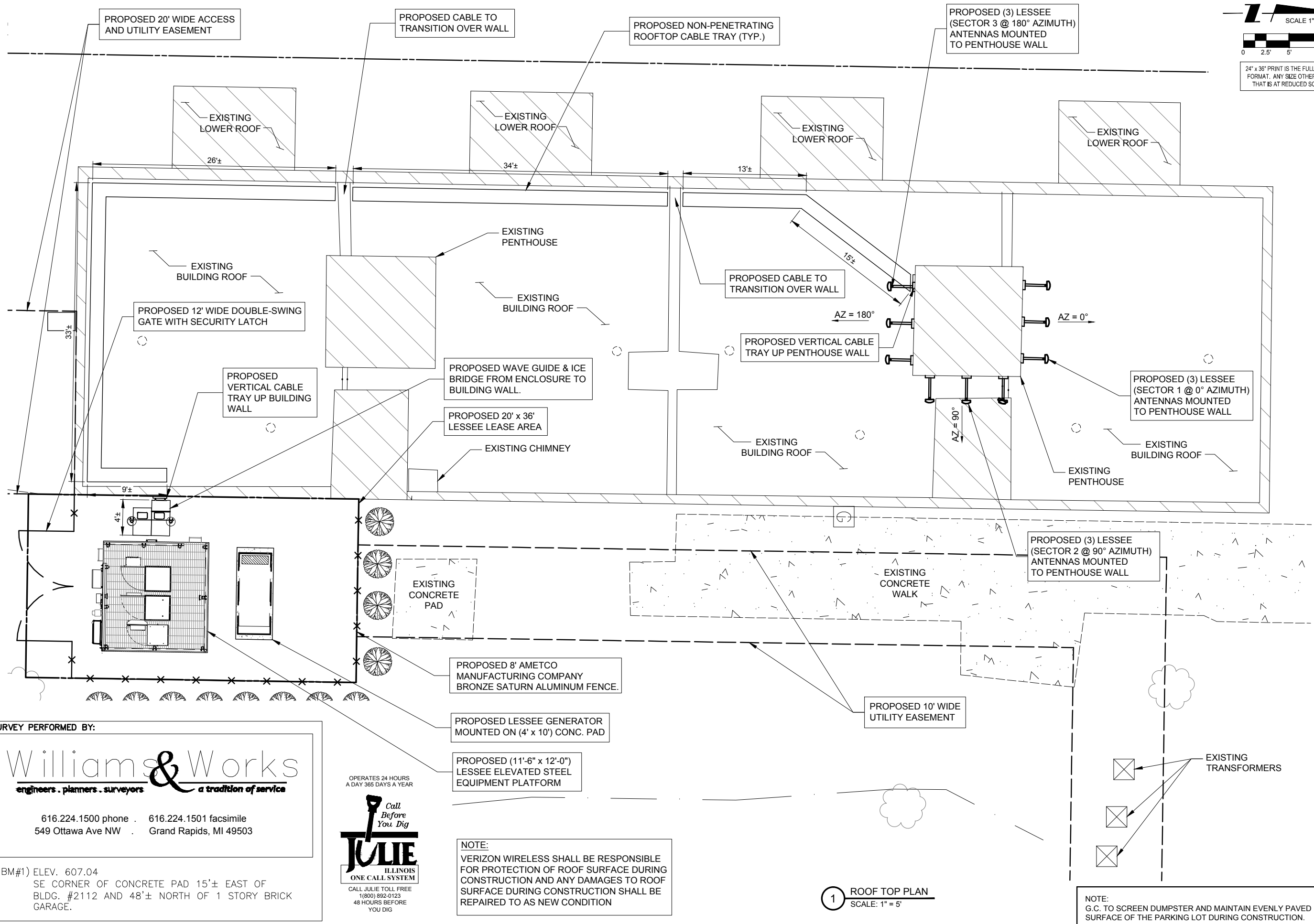
N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
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PROJECT #:	33-1966

SHEET TITLE
LOCATION PLAN

SHEET NUMBER
LP



CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS

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

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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-1

SURVEY PERFORMED BY:

Williams & Works
 engineers . planners . surveyors a tradition of service

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

BM #1) ELEV. 607.04
 SE CORNER OF CONCRETE PAD 15'± EAST OF
 BLDG. #2112 AND 48'± NORTH OF 1 STORY BRICK
 GARAGE.

OPERATES 24 HOURS
 A DAY 365 DAYS A YEAR

Call Before You Dig

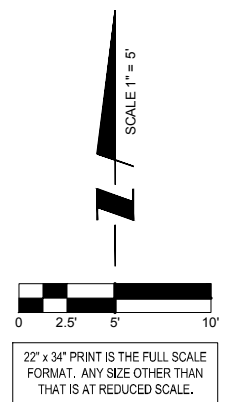
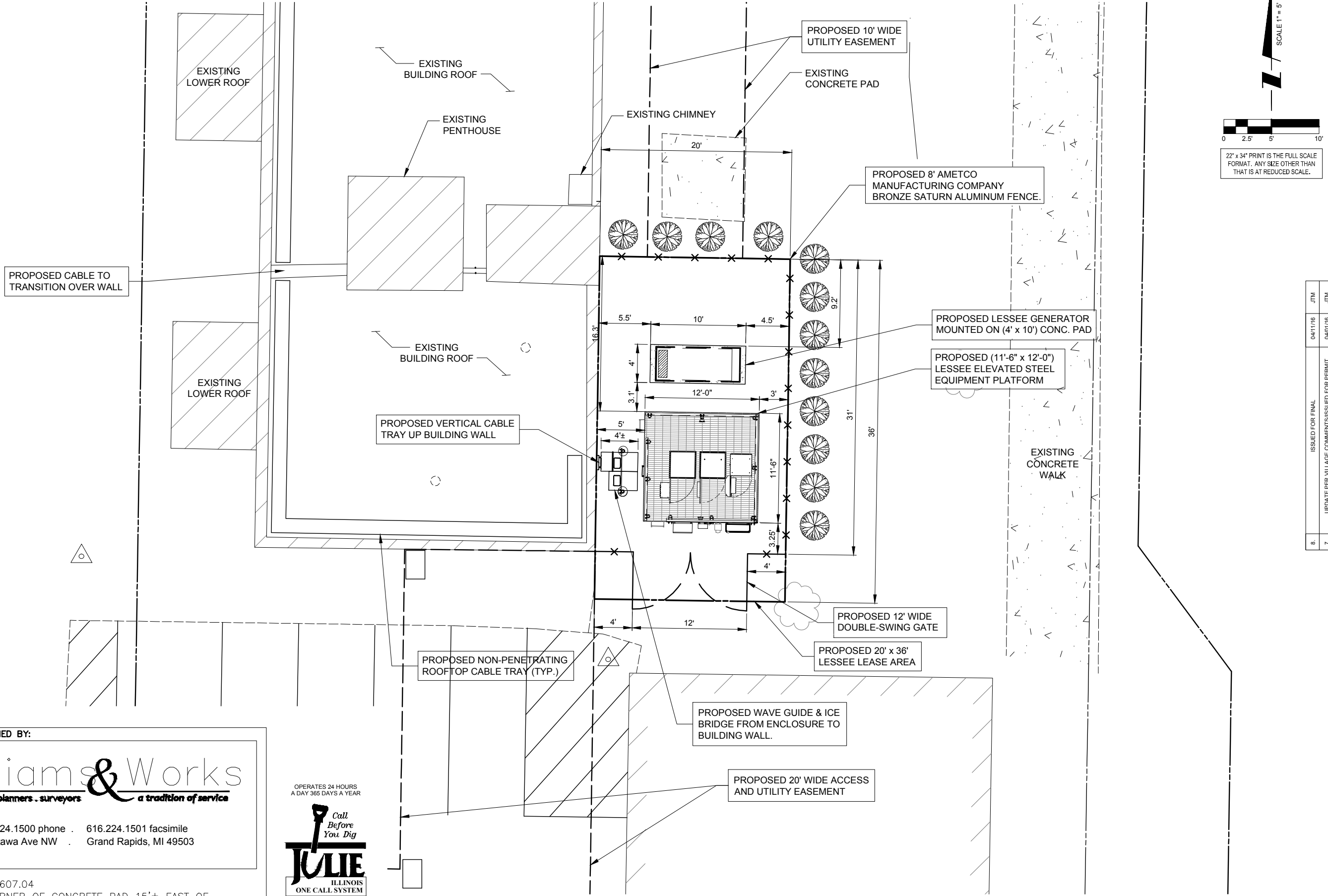
JULIE
 ILLINOIS
 ONE CALL SYSTEM

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

NOTE:
 VERIZON WIRELESS SHALL BE RESPONSIBLE FOR PROTECTION OF ROOF SURFACE DURING CONSTRUCTION AND ANY DAMAGES TO ROOF SURFACE DURING CONSTRUCTION SHALL BE REPAIRED TO AS NEW CONDITION

1 ROOF TOP PLAN
 SCALE: 1" = 5'

NOTE:
 G.C. TO SCREEN DUMPSTER AND MAINTAIN EVENLY PAVED SURFACE OF THE PARKING LOT DURING CONSTRUCTION.



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1 ENLARGED SITE PLAN
 SCALE: 1" = 5'

ISSUED FOR FINAL		ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT	
NO.	DATE	DESCRIPTION	BY
8.	04/11/16		JTM
7.	04/01/16	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	JTM
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	02/26/16	REVISED ECR	EW

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 limited partnership
 d/b/a VERIZON WIRELESS

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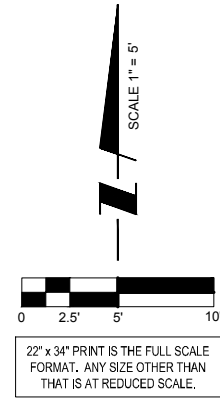
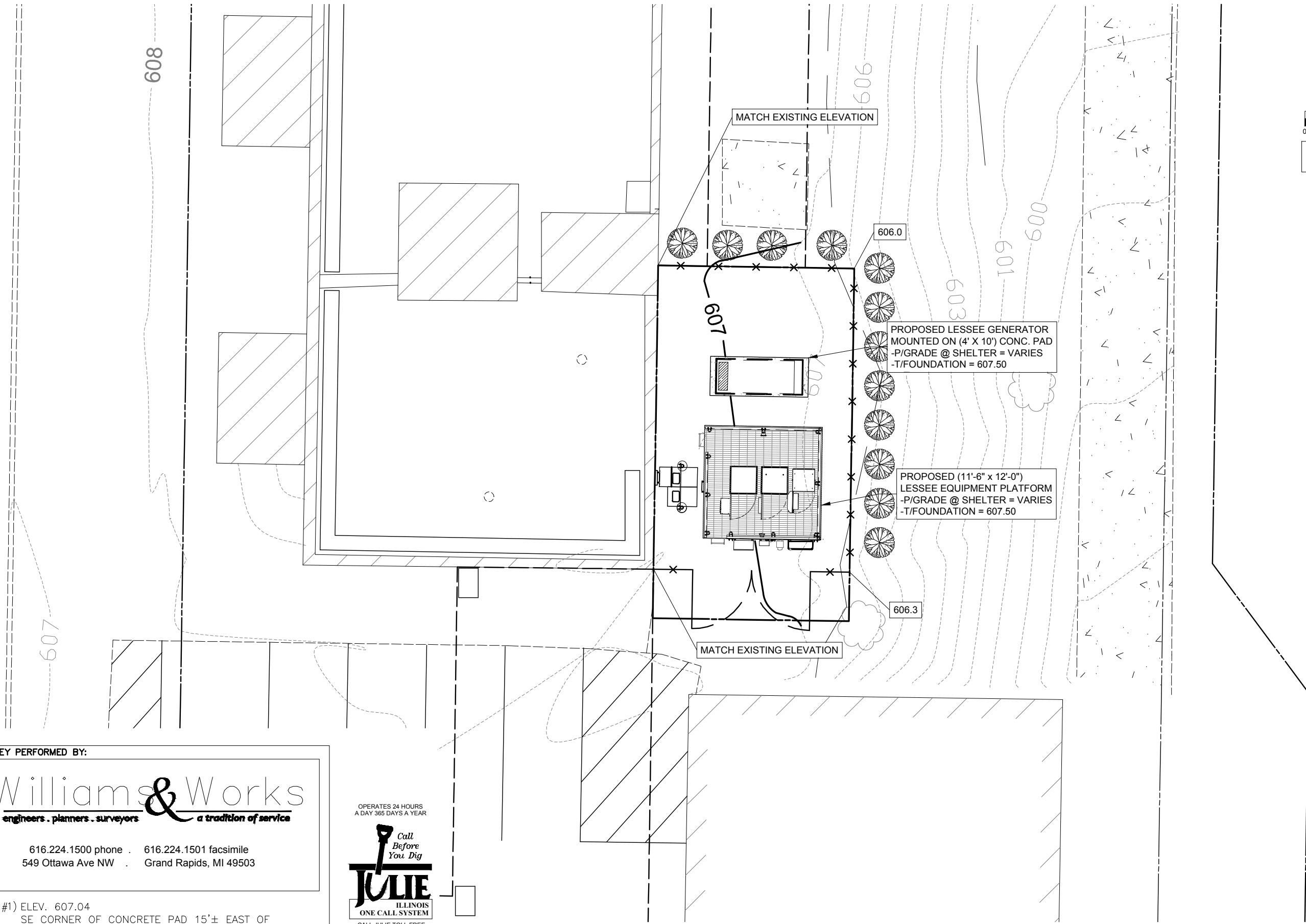
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 PEORIA, IL 61604

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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C-1A



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SHEET TITLE
SITE GRADING PLAN
 (SHEET 1 OF 1)

SHEET NUMBER
C-2

SURVEY PERFORMED BY:

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 engineers . planners . surveyors a tradition of service

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 549 Ottawa Ave NW . Grand Rapids, MI 49503

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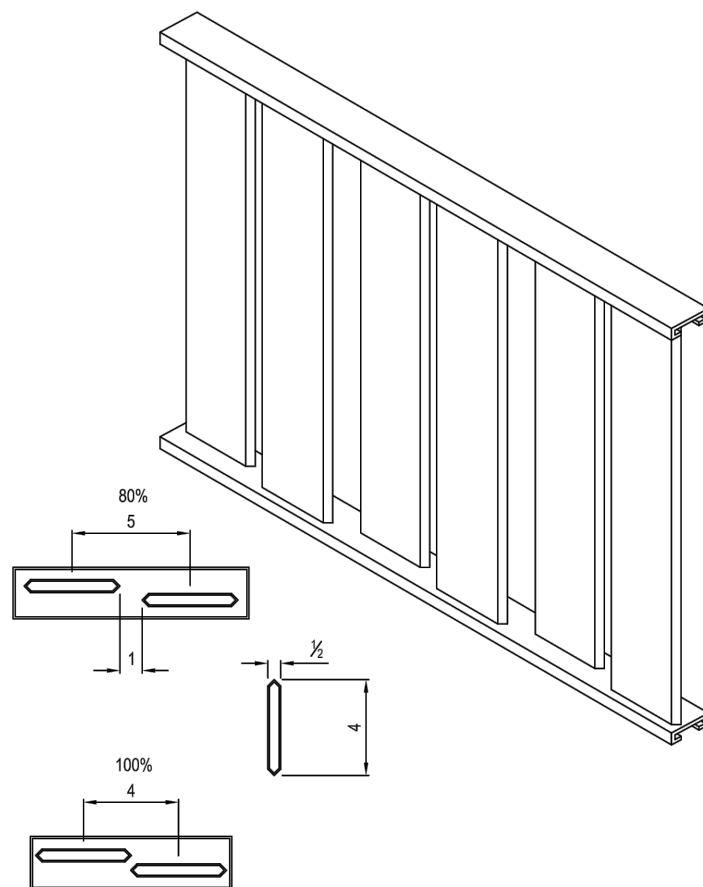
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1 SITE GRADING PLAN
 SCALE: 1" = 5'

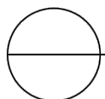


AMETCO MANUFACTURING CORPORATION
 4326 HAMANN PARKWAY P.O. BOX 1210
 WILLOUGHBY, OHIO 44096
 TOLL FREE: 1-800-321-7042
 PHONE: (440) 951-4300
 FAX: (440) 951-2542
 www.ametco.com



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 ALUMNIUM 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

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www.CADdetails.com

CHICAGO SMSA
 limited partnership
 d/b/a VERIZON WIRELESS



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SHEET TITLE
FENCE DETAIL

SHEET NUMBER

C-3

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

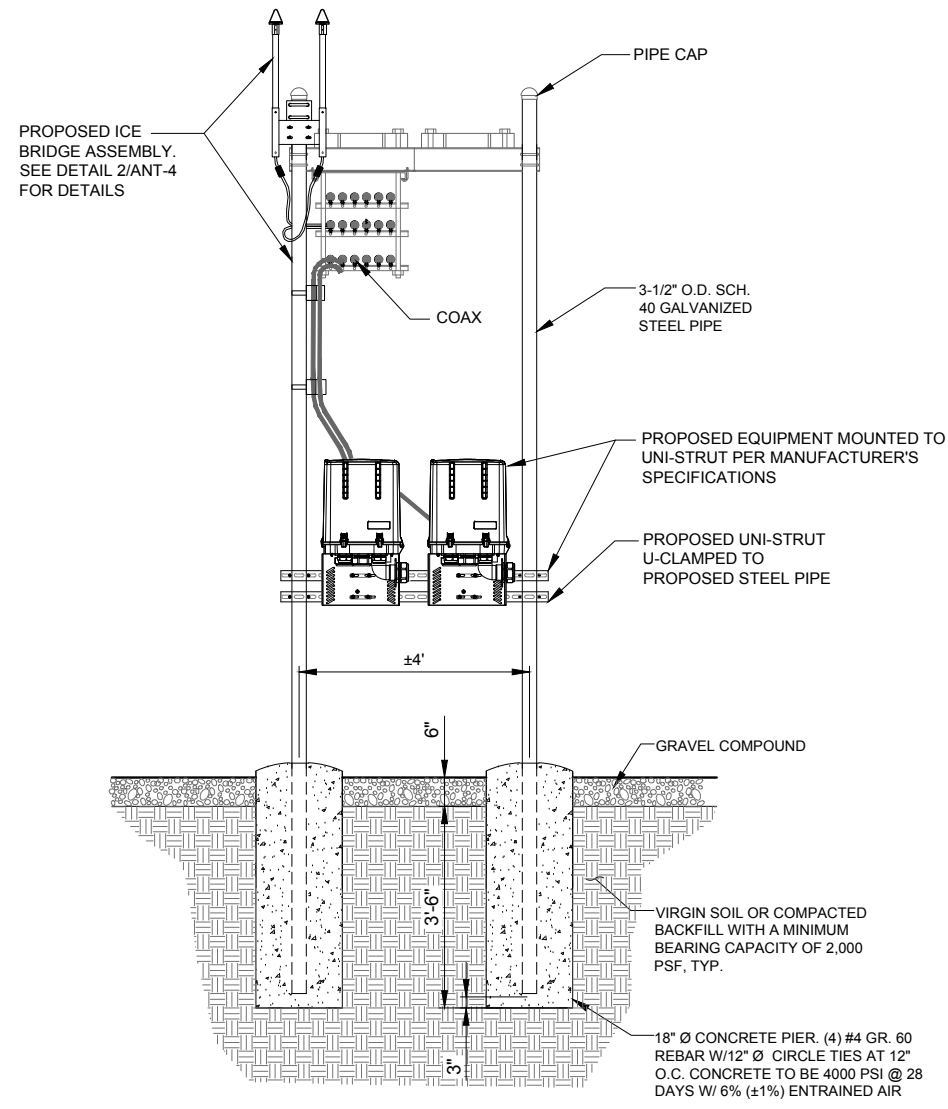
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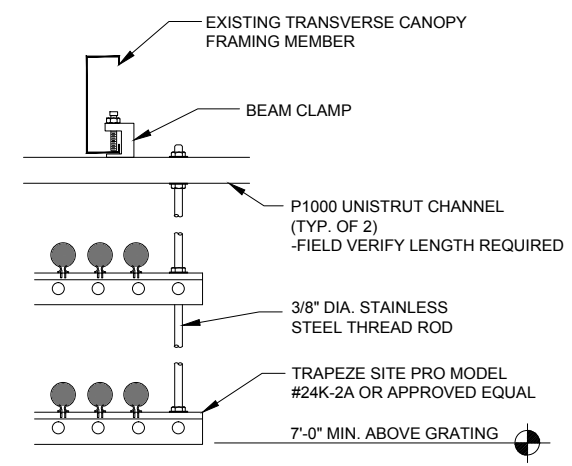


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1 RAYCAP MOUNT DETAIL - IF APPLICABLE
 N.T.S.



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

OPERATES 24 HOURS
 A DAY 365 DAYS A YEAR

Call Before You Dig

JULIE
 ILLINOIS ONE CALL SYSTEM

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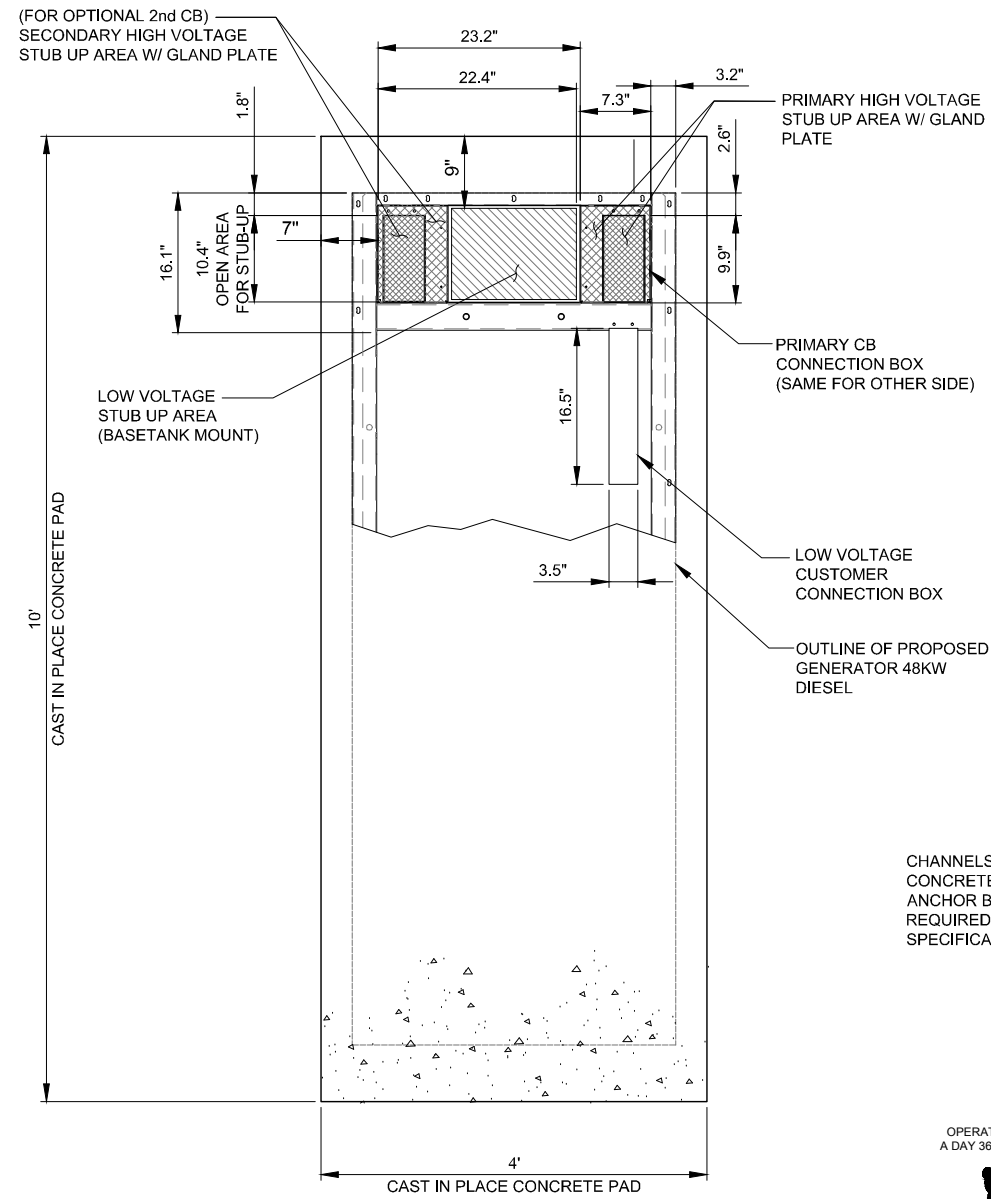
SHEET TITLE
SITE DETAILS

SHEET NUMBER
C-4

RECOMMENDED ELECTRICAL STUB-UPS
(SEE DETAILED VIEW & TOP VIEW)

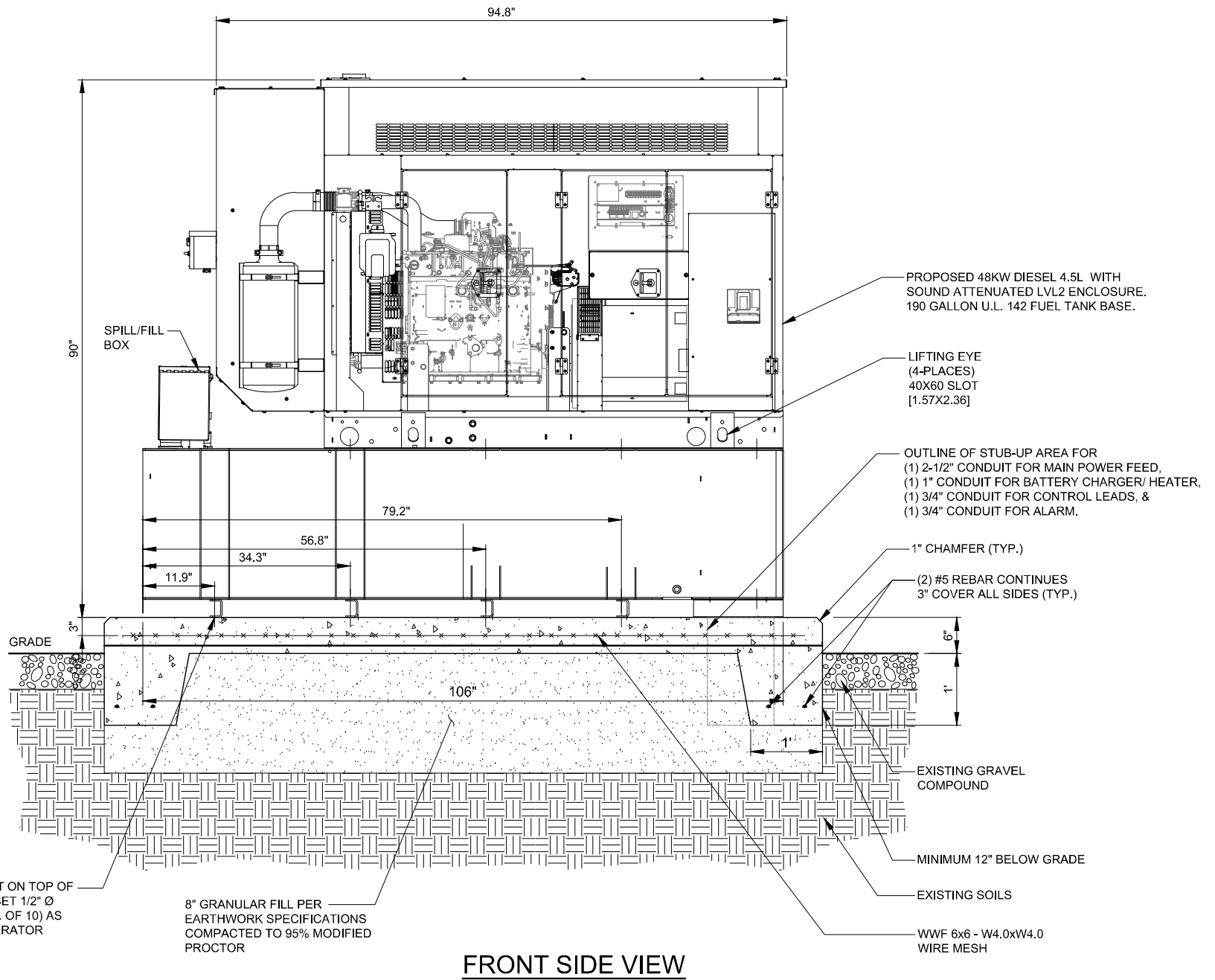
(HIGH VOLTAGE STUB UP)
1. AC LOAD LEAD CONDUIT AREA.
2. 120/240 VAC FROM UTILITY FOR OPTIONAL LOADS SUCH AS GFCI OUTLET, BLOCK HEATER, BATTERY CHARGER, AND OTHER 120/240 VAC OPTIONS. (GLAND PLATE INCLUDED)

(LOW VOLTAGE STUB UP)
1. TRANSFER SWITCH/COMMUNICATIONS CONDUITS. COMMUNICATIONS AND 2-WIRE START MUST NOT BE RUN IN CONDUIT W/ AC WIRING.



PLAN VIEW

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



FRONT SIDE VIEW

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.



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limited partnership
d/b/a VERIZON WIRELESS



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5.	UPDATE WITH CABINET LAYOUT	01/14/16	JTM							
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM							
7.	REVISED ECR	02/26/16	JTM							

LOC. # 313803

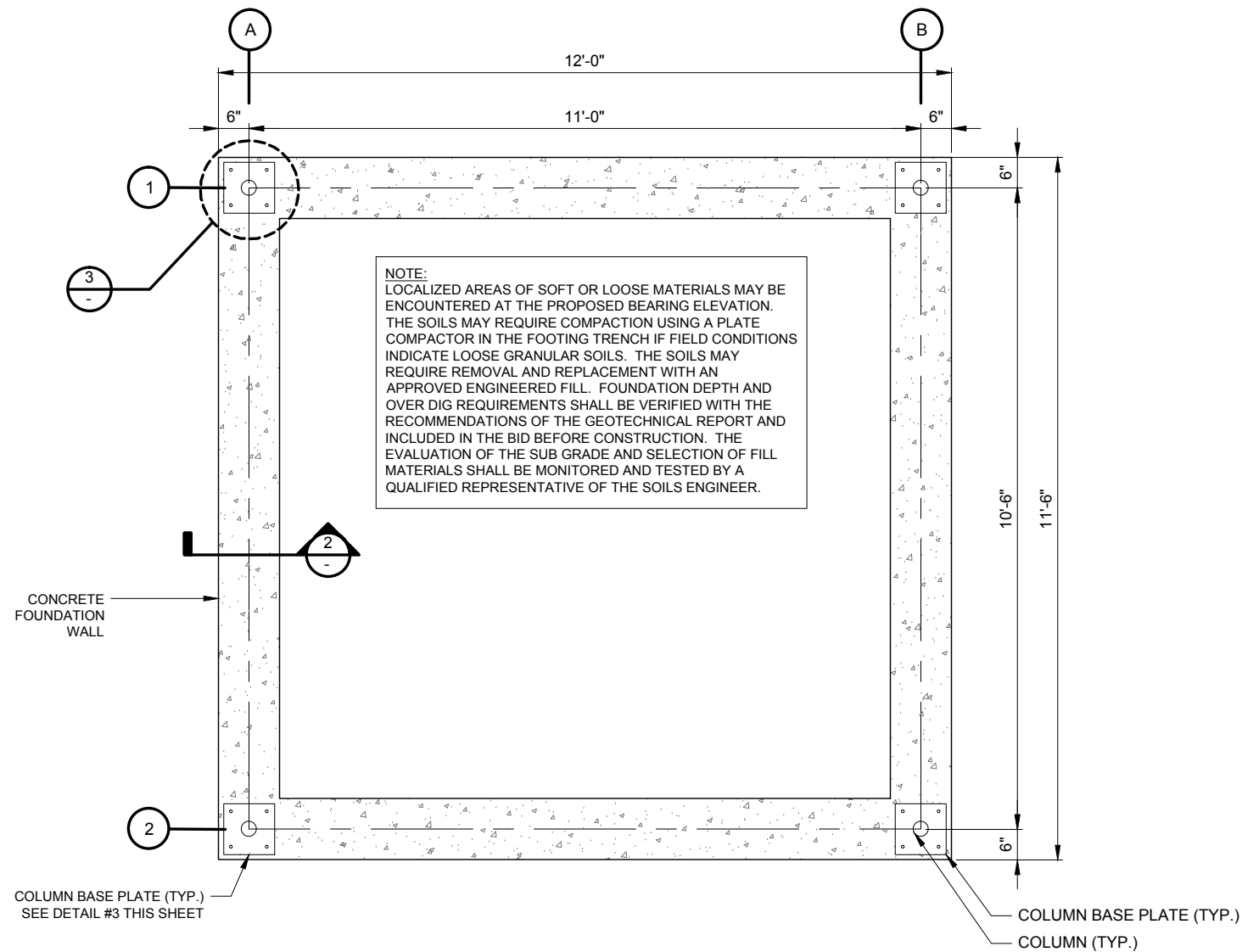
N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

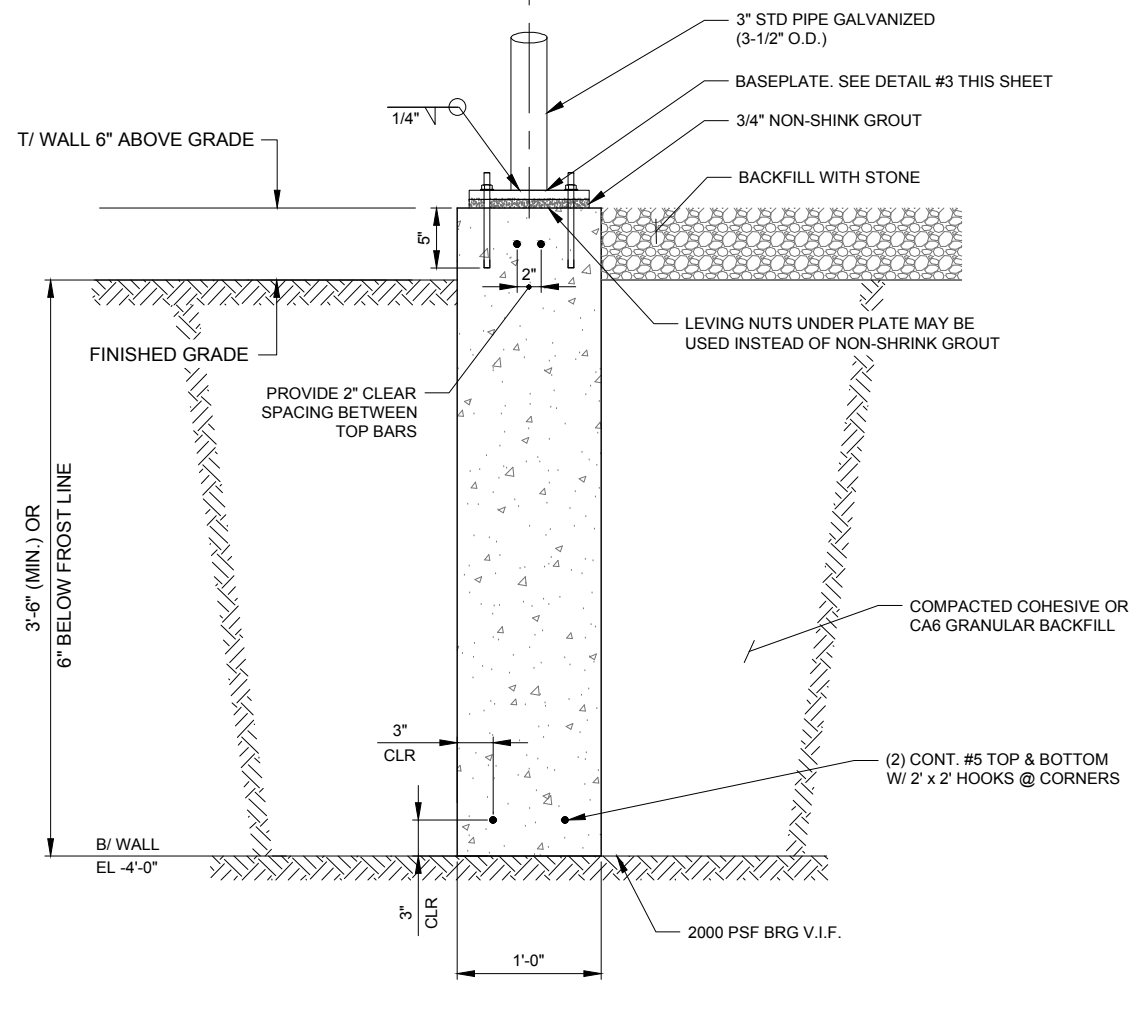
DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
GENERATOR FOUNDATION DETAILS

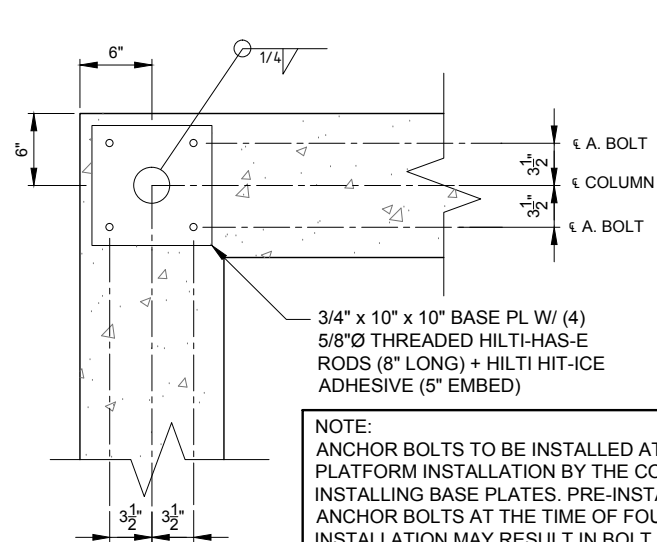
SHEET NUMBER
C-5



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

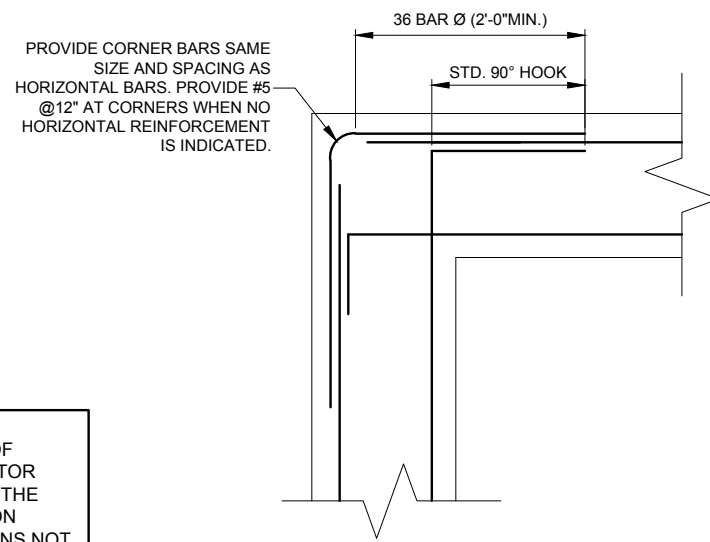


2 FOUNDATION WALL SECTION
SCALE: 1-1/2" = 1'-0"

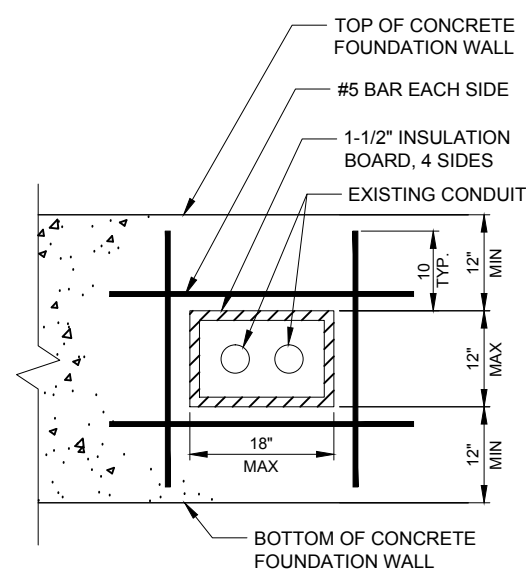


3 COLUMN BASE PLATE DETAILS
SCALE: 1-1/2" = 1'-0"

NOTE:
ANCHOR BOLTS TO BE INSTALLED AT TIME OF PLATFORM INSTALLATION BY THE CONTRACTOR INSTALLING BASE PLATES. PRE-INSTALLING THE ANCHOR BOLTS AT THE TIME OF FOUNDATION INSTALLATION MAY RESULT IN BOLT PATTERNS NOT MATCHING UP WITH BASE PLATE OF PLATFORM



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.

NO.	DESCRIPTION	DATE	BY	DATE	BY
1.	ISSUED FOR REVIEW	09/26/15	TJS	04/11/16	JTM
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT	04/01/16	JTM
3.	ADDITION OF ANTENN MOUNTS	11/05/15	LS		
4.	ADDITION OF NTC	12/01/15	MAP		
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE		
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM		
	REVISED ECR	02/26/16	EW		

ISSUED FOR FINAL

ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT

REVISIONS

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

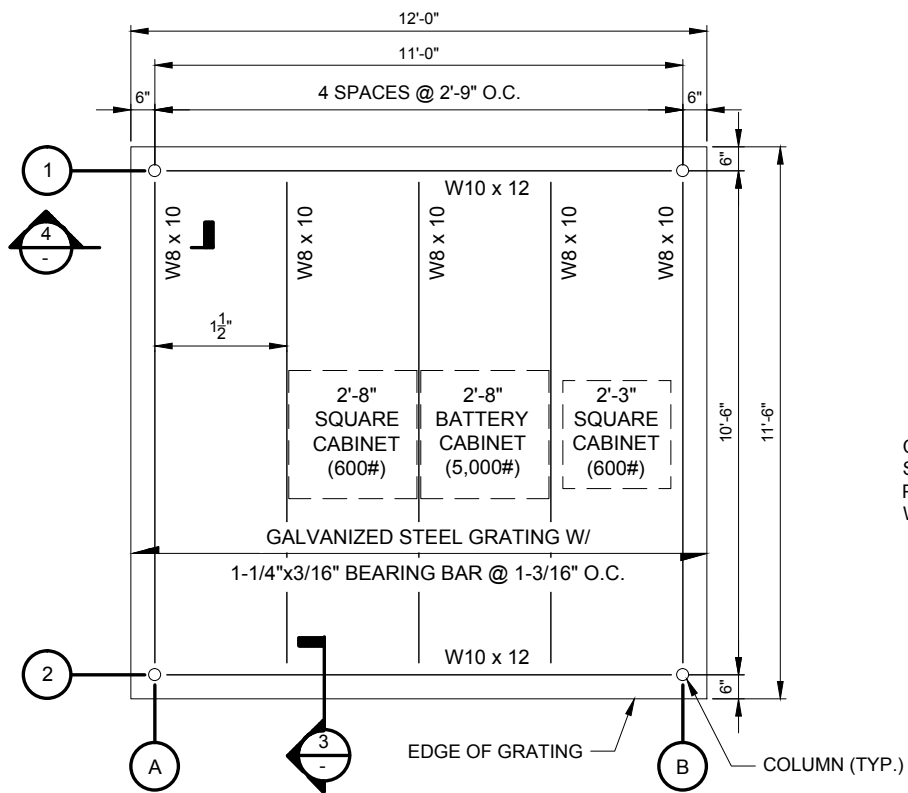
DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
ELEVATED STEEL EQUIPMENT PLATFORM FOUNDATION PLAN

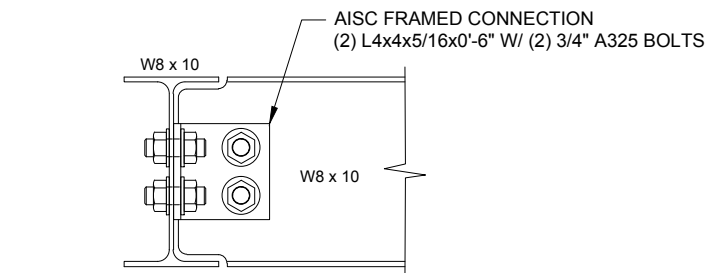
SHEET NUMBER
C-6

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

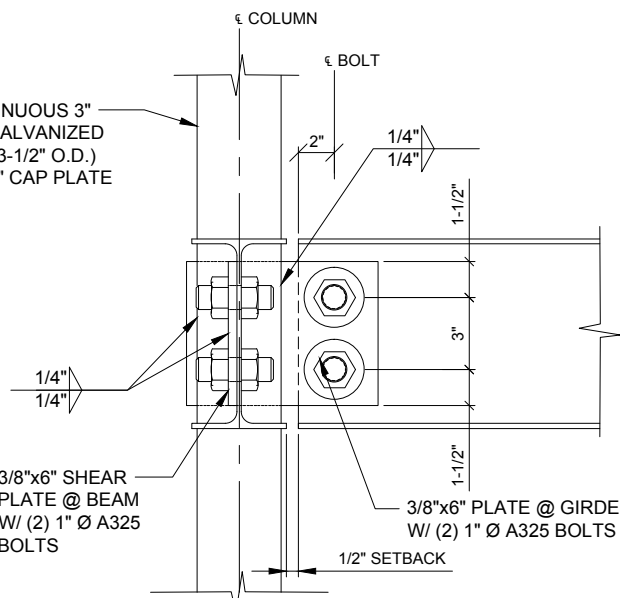
TERRA CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401



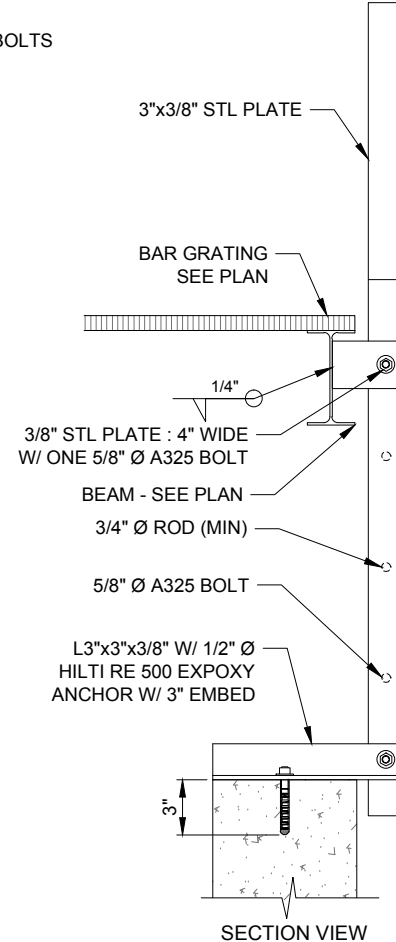
1 ELEVATED STEEL EQUIPMENT PLATFORM - FLOOR FRAMING PLAN
SCALE: 1/2" = 1'-0"



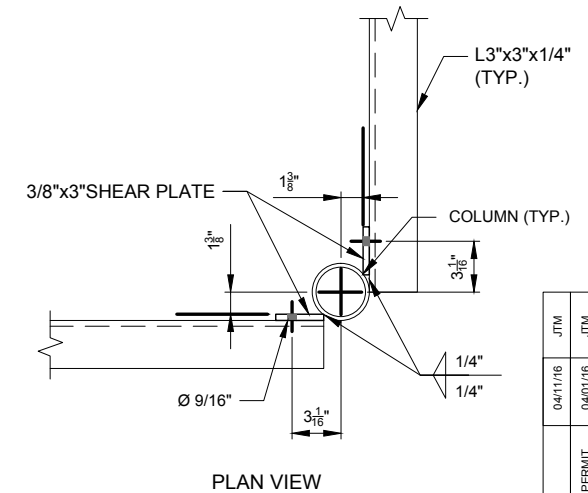
3 TYPICAL BEAM TO BEAM CONNECTION
SCALE: N.T.S.



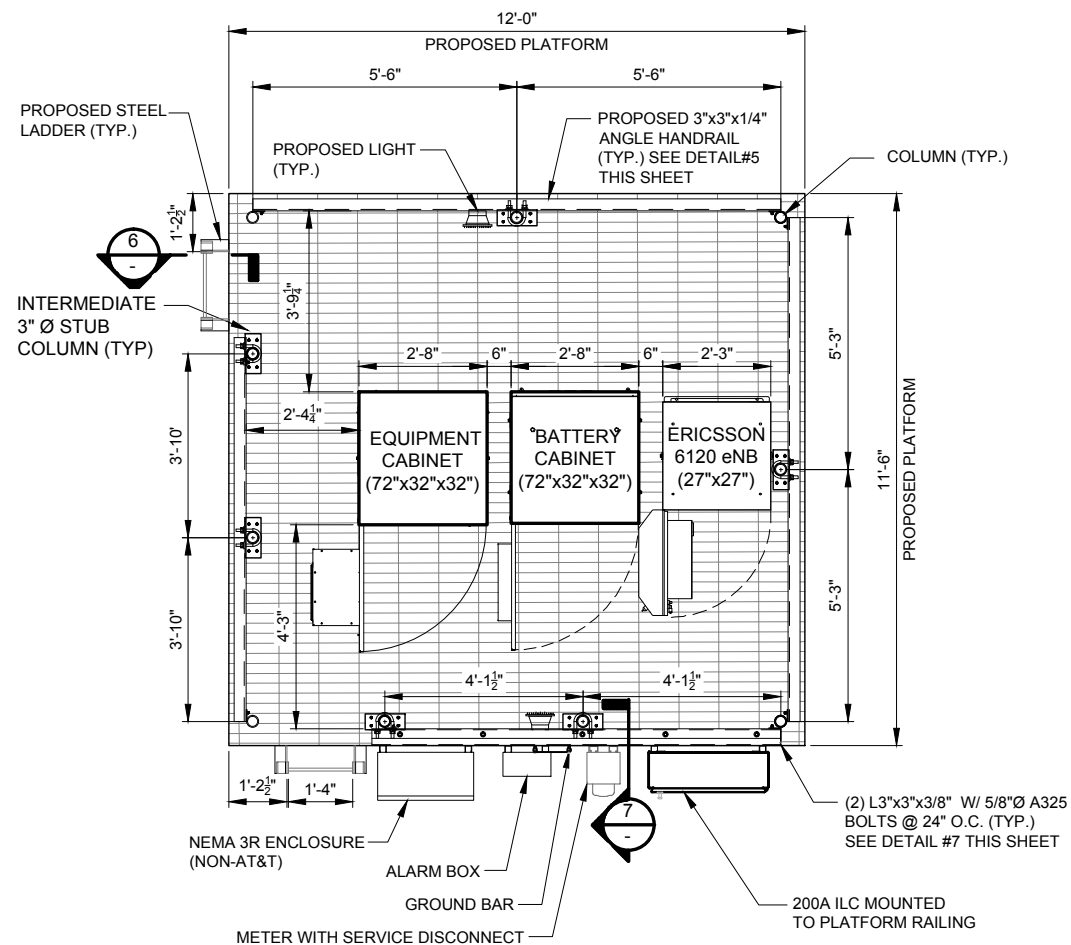
4 TYPICAL BEAM TO BEAM CONNECTION AT CORNERS
SCALE: N.T.S.



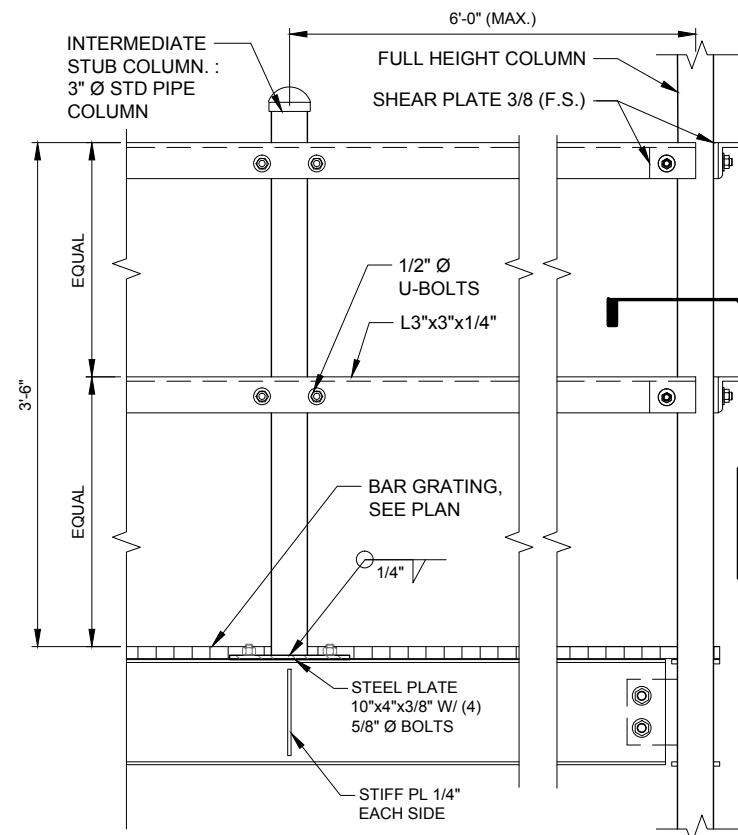
6 EQUIPMENT PLATFORM LADDER DETAIL
SCALE: N.T.S.



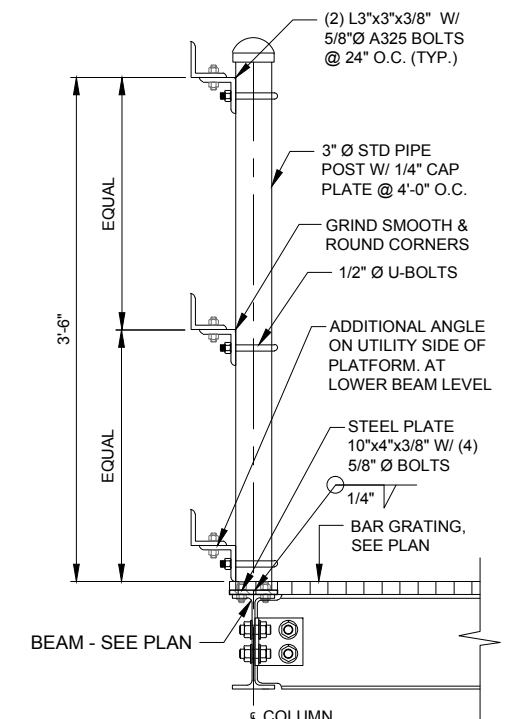
8 ANGLE HANDRAIL CONNECTION DETAIL
SCALE: N.T.S.



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.

ISSUED FOR FINAL		ISSUED FOR PERMIT	
NO.	DATE	DESCRIPTION	BY
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3.	11/05/15	ADDITION OF ANTENNA MOUNTS	LS
4.	12/01/15	ADDITION OF NTC	MAP
5.	01/14/16	UPDATE WITH CABINET LAYOUT	BTE
6.	02/24/16	UPDATE PER CLIENT COMMENTS	JTM
7.	02/26/16	REVISED ECR	EW

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d/b/a VERIZON WIRELESS

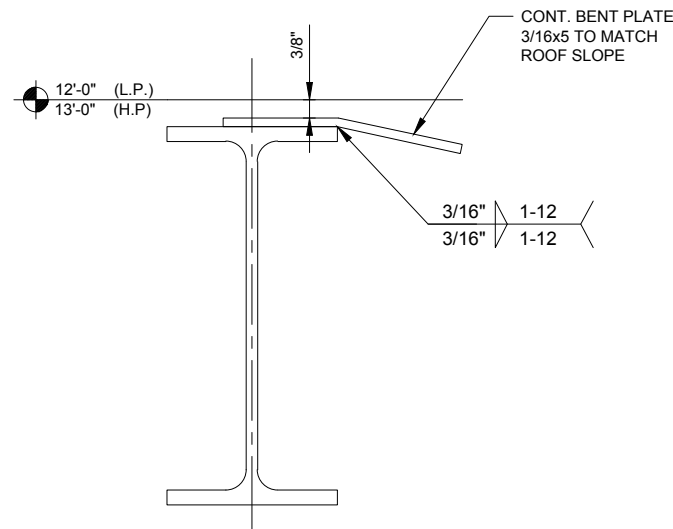
TERRA CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

LOC. # 313803
N SHERDAN & McGLURE
2112-2118 LINN ST.
PEORIA, IL 61604

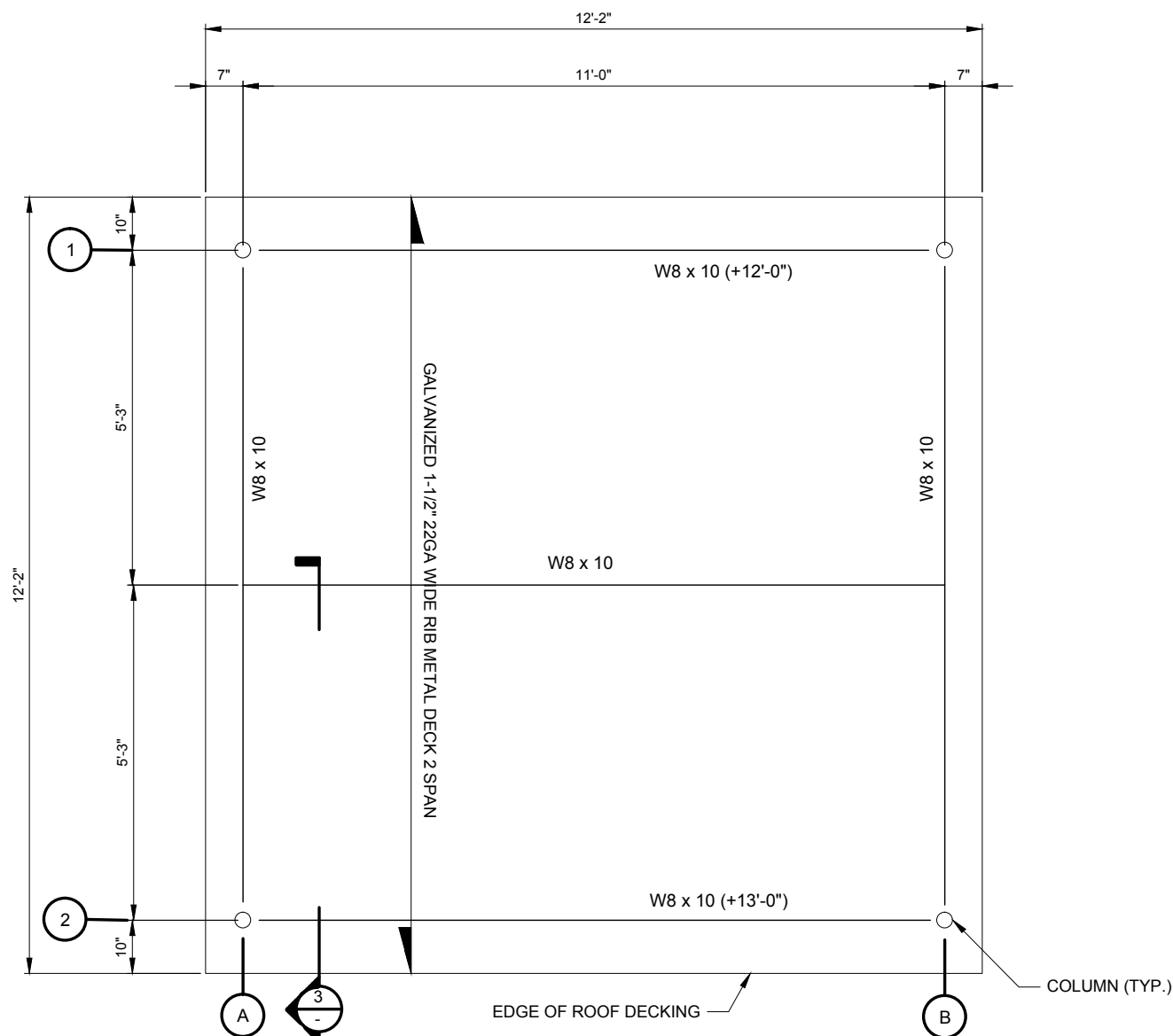
DRAWN BY: TJS
CHECKED BY: TAZ
DATE: 09/26/15
PROJECT #: 33-1966

SHEET TITLE
ELEVATED STEEL EQUIPMENT PLATFORM FLOOR FRAMING PLAN

SHEET NUMBER
C-7



2 ALTERNATE DETAIL INSTEAD OF ROTATING HIGH AND LOW W8x10 BEAMS
SCALE: N.T.S



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

METAL DECK NOTES:

1. METAL ROOF DECK SHALL BE GALVANIZED. GALVANIZED SHEET STEEL SHALL CONFORM TO ASTM A446 GRADE A AND ASTM A525 WITH A MINIMUM G30 COATING UNLESS OTHERWISE NOTED.
2. METAL DECK SECTION PROPERTIES SHALL BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS". THE MINIMUM THICKNESS OF ROOF DECK SHALL BE 22 GAUGE.
3. FASTENING OF METAL DECK TO THE STRUCTURAL STEEL, THE FOLLOWING LIMITS SHALL NOT BE EXCEEDED:
 - A.) ALL METAL DECKING SHALL BE FASTENED AT 12" (6" AT THE PERIMETER) MAXIMUM ON CENTER TO THE SUPPORTING STEEL WITH #12 TEK SCREWS.
 - B.) # 12 GALVANIZED TEK SCREWS IN 36/4 PATTERN.
 - C.) SEE PLAN FOR ADDITIONAL PLAN FASTENING REQUIREMENTS.
4. NO LOADS EXCEEDING 50 LBS SHALL BE PERMITTED TO BE HUNG FROM ANY METAL DECKING. ALL HANGERS FOR DUCTWORK, PIPING, ETC. SHALL BE HUNG DIRECTLY FROM STRUCTURAL STEEL WORK OR SUPPLEMENTARY MEMBERS OR ANCHORS EMBEDDED IN THE CONCRETE. ALL HANGING LOAD DETAILS SHALL BE SUBMITTED FOR REVIEW.

GENERAL STEEL NOTES:

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", LATEST EDITION, EXCEPT AS MODIFIED BELOW OR IN THE SPECIFICATIONS.
2. ALL STRUCTURAL STEEL W SHAPES SHALL CONFORM TO THE ASTM A572 OR A992 GRADE 50. ALL OTHER STRUCTURAL STEEL SHAPES, PLATES, AND BARS SHALL CONFORM TO ASTM A500 GRADE B. PIPES SHALL CONFORM TO ASTM A53 TYPE E OR S. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36 AND BE COMPATIBLE WITH E70XX ELECTRODES.
3. ALL WELDING SHALL BE DONE BY QUALIFIED WELDERS AND SHALL CONFORM TO AWS D1.1 "STRUCTURAL WELDING CODE", LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70X.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS AND EXISTING CONDITIONS.
5. IF CONDITIONS VARY FROM THOSE ON THE DRAWINGS, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
6. THE CONTRACTOR SHALL OBSERVE ALL SAFETY RULES DICTATED BY CODE AND GOOD PRACTICE.
7. SHOULD UNFORESEEN CONDITIONS OR OTHER CAUSE NECESSITATE THE CONSTRUCTION DETAILS TO BE MODIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE PERFORMING THESE CHANGES.

8.	ISSUED FOR FINAL	04/11/16	JTM
7.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM

REVISIONS	
NO.	DESCRIPTION
1.	ISSUED FOR REVIEW
2.	ISSUED PER FIBER COORDINATION
3.	ADDITION OF ANTENN MOUNTS
4.	ADDITION OF NTC
5.	UPDATE WITH CABINET LAYOUT
6.	UPDATE PER CLIENT COMMENTS
7.	REVISED ECR

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limited partnership
d/b/a VERIZON WIRELESS

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

LOC. # 313803

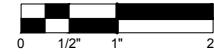
N SHERDAN & McGLURE

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PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

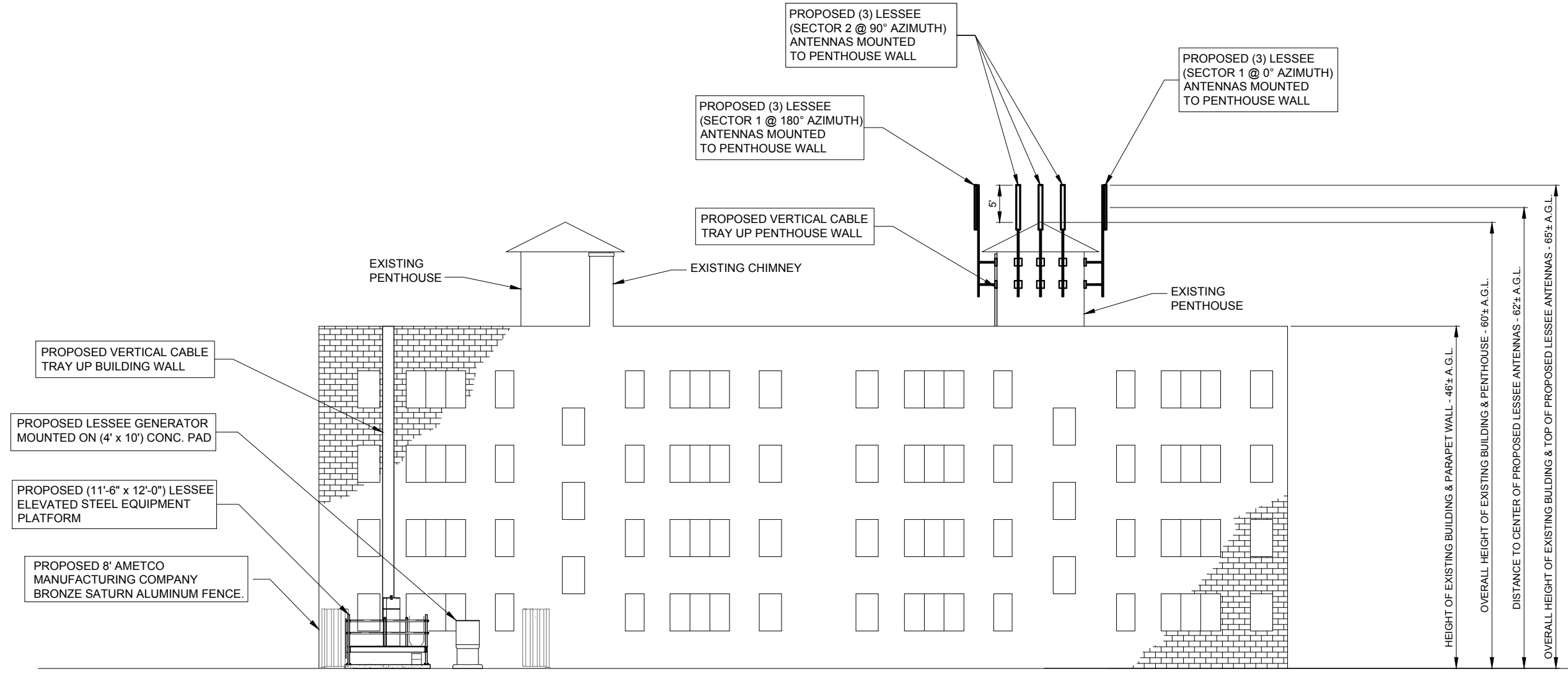
SHEET TITLE
ELEVATED STEEL EQUIPMENT PLATFORM ROOF FRAMING PLAN

SHEET NUMBER
C-8



SCALE: 1/8" = 1'

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



HEIGHT OF EXISTING BUILDING & PARAPET WALL - 46± A.G.L.
 OVERALL HEIGHT OF EXISTING BUILDING & PENTHOUSE - 60± A.G.L.
 DISTANCE TO CENTER OF PROPOSED LESSEE ANTENNAS - 62± A.G.L.
 OVERALL HEIGHT OF EXISTING BUILDING & TOP OF PROPOSED LESSEE ANTENNAS - 65± A.G.L.

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NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	09/26/15	TJS
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3.	ADDITION OF ANTENNA MOUNTS	11/05/15	LS
4.	ADDITION OF NTC	12/01/15	MAP
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
7.	REVISED ECR	02/26/16	EW

REVISIONS

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST.
 PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
 SITE ELEVATION

SHEET NUMBER
ANT-1

EQUIPMENT CHANGE REQUEST FORM- ECR

Cell Name	N Sheridan and McGlure	RF Engineer	Trisha Bhuyan	Cell ID	2112-2118 N Linn St
Location Number	313803	Market	Springfield	Address	Peoria, IL 61604
Date of Request	4/7/2016			City/State/Zip	

Antenna		Configuration				Option-A2																					
Sector	Pos	Port	RF Path	Antenna Manufacturer	Antenna Model	Antenna Serial Number	Centerline	Azimuth	Variable Tilt	Mechanical Tilt	Action																
Alpha	A1	L1 (-45)	LTE C - RxTx0	Amphenol	HEX456CW0000x		62	0	2	0	Add-Install																
		L2 (+45)	LTE C - RxTx1																								
		H1 (-45)	Unused at this time																								
		H2 (+45)	Unused at this time																								
	A2	L1 (-45)	Unused at this time																								
		L2 (+45)	Unused at this time																								
		H1 (-45)	Unused at this time																								
		H2 (+45)	Unused at this time																								
	A3	L1 (-45)	LTE C - RX2									Amphenol	HEX456CW0000x		62	0	2	0	Add-Install								
		L2 (+45)	LTE C - RX3																								
		H1 (-45)	AWS - RxTx0																								
		H2 (+45)	AWS - RxTx1																								
A4	L1 (-45)	PCS - RxT2	Amphenol	HEX456CW0000x		62	0	2	0	Add-Install																	
	H1 (-45)	PCS - RxT3																									
	H2 (+45)	PCS - RxT3																									
	H2 (+45)	PCS - RxTx1																									
Beta	A1	L1 (-45)									LTE C - RxTx0									Amphenol	HEX456CW0000x		62	90	2	0	Add-Install
		L2 (+45)									LTE C - RxTx1																
		H1 (-45)									Unused at this time																
		H2 (+45)									Unused at this time																
	A2	L1 (-45)									Unused at this time																
		L2 (+45)									Unused at this time																
		H1 (-45)									Unused at this time																
		H2 (+45)									Unused at this time																
	A3	L1 (-45)	LTE C - RX2	Amphenol	HEX456CW0000x		62	90	2	0	Add-Install																
		L2 (+45)	LTE C - RX3																								
		H1 (-45)	AWS - RxTx0																								
		H2 (+45)	AWS - RxTx1																								
A4	L1 (-45)	PCS - RxT2	Amphenol									HEX456CW0000x		62	90	2	0	Add-Install									
	H1 (-45)	PCS - RxT3																									
	H2 (+45)	PCS - RxT3																									
	H2 (+45)	PCS - RxTx1																									
Beta	A1	L1 (-45)																	LTE C - RxTx0	Amphenol	HEX456CW0000x		62	180	2	0	Add-Install
		L2 (+45)																	LTE C - RxTx1								
		H1 (-45)																	Unused at this time								
		H2 (+45)																	Unused at this time								
	A2	L1 (-45)		Unused at this time																							
		L2 (+45)		Unused at this time																							
		H1 (-45)		Unused at this time																							
		H2 (+45)		Unused at this time																							
	A3	L1 (-45)	LTE C - RX2	Amphenol	HEX456CW0000x		62	180	2	0	Add-Install																
		L2 (+45)	LTE C - RX3																								
		H1 (-45)	AWS - RxTx0																								
		H2 (+45)	AWS - RxTx1																								
A4	L1 (-45)	PCS - RxT2	Amphenol									HEX456CW0000x		62	180	2	0	Add-Install									
	H1 (-45)	PCS - RxT3																									
	H2 (+45)	PCS - RxT3																									
	H2 (+45)	PCS - RxTx1																									

Comments

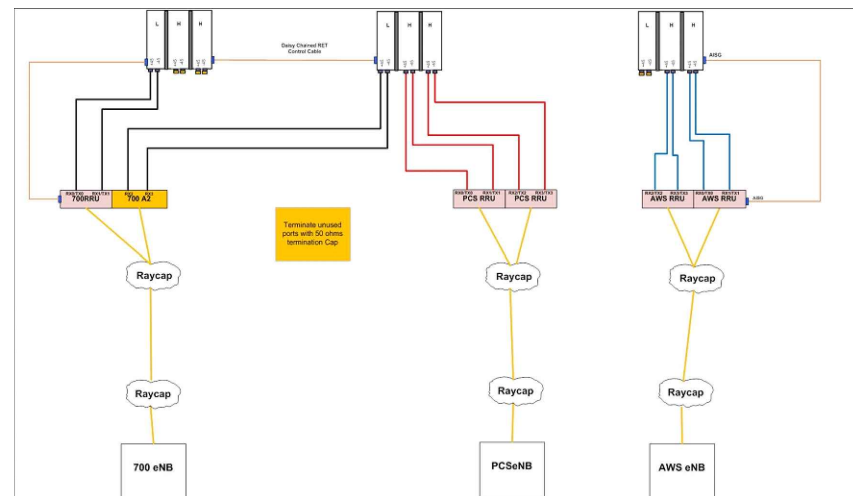
1 PROPOSED ANTENNA SCHEDULE
N.T.S.

ESTIMATED MAIN LINE HYBRID LENGTH		
ANTENNA CENTERLINE (±)	ICE BRIDGE LENGTH (±)	TOTAL (±)
67'	140'	207'

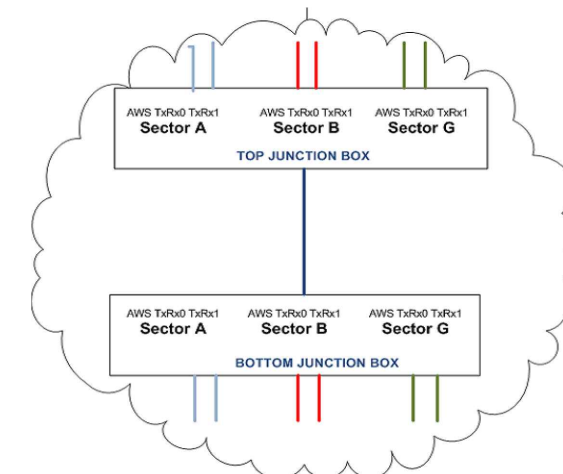
Proposed					
Passive Components	Location	Manufacturer	Component Model	Count	Action
	Top (Platform)				
	Top (Platform)	Ericsson	RRUS 12 - AWS	6	Install
	Top (Platform)	Ericsson	A2	3	Install
	Top (Platform)	Ericsson	RRUS 12 - PCS	6	Install
	Top (Platform)	Ericsson	RRUS 12 - 700	3	Install
	Top (Platform)				
	Top (Platform)				
	Top (Platform)				
	Top (Platform)	Raycap	RC3DC-3315-PF-48	3	Install
	Bottom (Shelter)				
	Bottom (Shelter)	Raycap	RC3DC-3315-PF-48	3	Install

Coax	Sector	Coax Manufacturer	Type	Size	Count	Action
	Alpha					
	Beta					
	Gamma					
	AWS	Andrew	Hybrid Cable		3	Install

2 COMBINER CABLE DATA INFORMATION
N.T.S.



3 CABLE DIAGRAM
N.T.S.



4 CABLE DIAGRAM @ JUNCTION BOX
N.T.S.

NO.	DESCRIPTION	DATE	BY	ISSUED FOR FINAL	ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT
1.	ISSUED FOR REVIEW	09/28/15	TJS	04/11/16	JTM
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT	04/01/16	JTM
3.	ADDITION OF ANTENN MOUNTS	11/05/15	LS		
4.	ADDITION OF NTC	12/01/15	MAP		
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE		
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM		
	REVISED ECR	02/26/16	EW		

REVISIONS

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LOC. # 313803

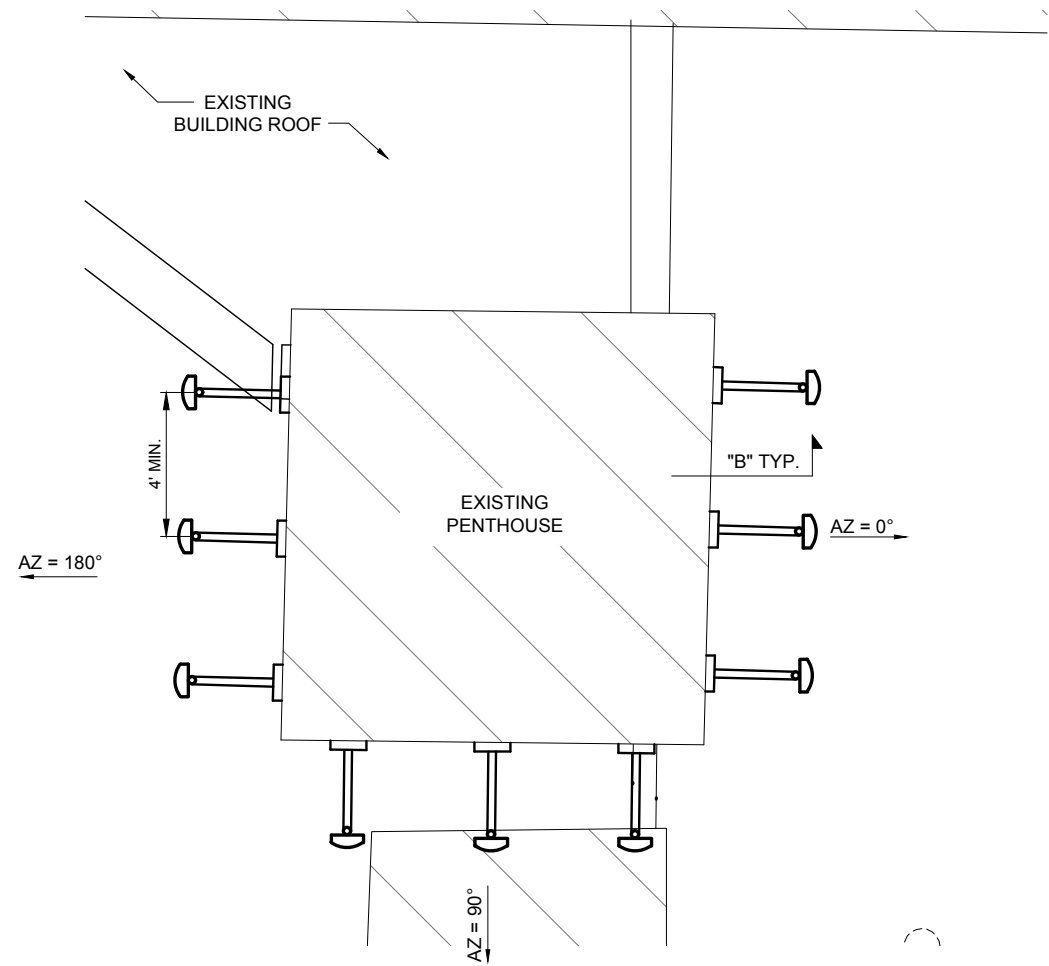
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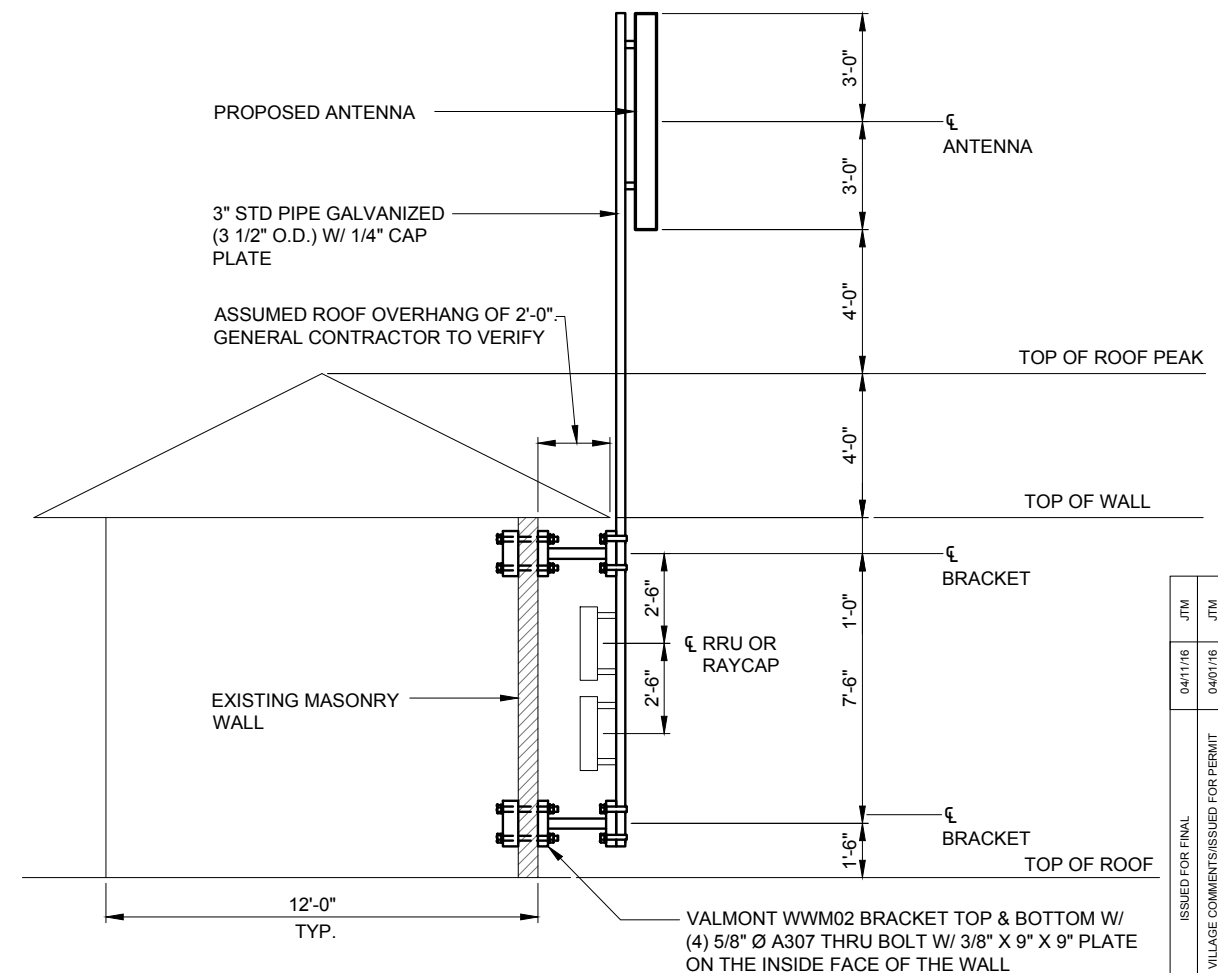
DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
ANTENNA INFORMATION

SHEET NUMBER
ANT-2



1 PARTIAL ROOF PLAN/ ANTENNA LAYOUT
SCALE: 1/32" = 1'-0"



2 ANTENNA MOUNT DETAIL
SCALE: 1/32" = 1'-0"

NO.	DESCRIPTION	DATE	BY	ISSUED FOR
1.	ISSUED FOR REVIEW	09/28/15	TJS	ISSUED FOR FINAL
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REVISIONS

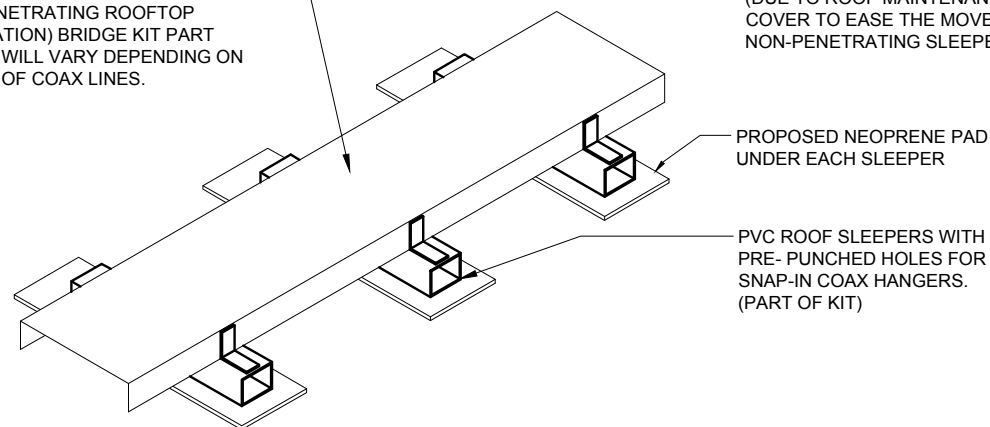
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BRIDGE KIT P/N	# OF COAX LINES	BRIDGE WIDTH
B1542-11	4	11-1/2"
B1543	8	1'-9 1/2"
B1595	12	2'-9"
B3098	16	1'-9 1/2"

NOTE:
AT TURNS USE MICROFLECT ADJUSTABLE SPLICES FOR 0° TO 45° BENDS AND 45° TO 90° BENDS

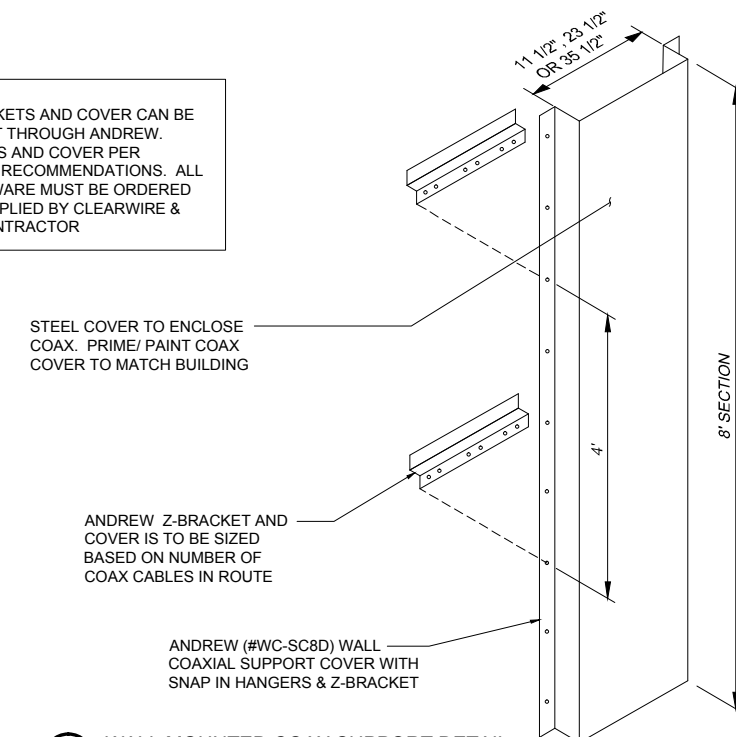
- NOTE:
- CONTRACTOR TO SUPPLY SUFFICIENT SLACK AT BOTH ENDS OF CABLE TRAY. CABLE TRAY SHOULD BE ABLE TO BE TEMPORARILY SHIFTED FOR ROOF MAINTENANCE.
 - IF CABLE BRIDGE REQUIRES TEMPORARY RELOCATION (DUE TO ROOF MAINTENANCE) REMOVE THE BRIDGE COVER TO EASE THE MOVEMENT OF THE NON-PENETRATING SLEEPERS.

MICROFLECT COAX BRIDGE KIT (NON-PENETRATING ROOFTOP INSTALLATION) BRIDGE KIT PART NUMBER WILL VARY DEPENDING ON NUMBER OF COAX LINES.



3 ROOF MOUNTED COAX SUPPORT
SCALE: N.T.S.

NOTE:
COAX WALL BRACKETS AND COVER CAN BE ORDERED AS A KIT THROUGH ANDREW. INSTALL BRACKETS AND COVER PER MANUFACTURERS RECOMMENDATIONS. ALL MOUNTING HARDWARE MUST BE ORDERED SEPARATELY. SUPPLIED BY CLEARWIRE & INSTALLED BY CONTRACTOR



4 WALL MOUNTED COAX SUPPORT DETAIL
SCALE: N.T.S.

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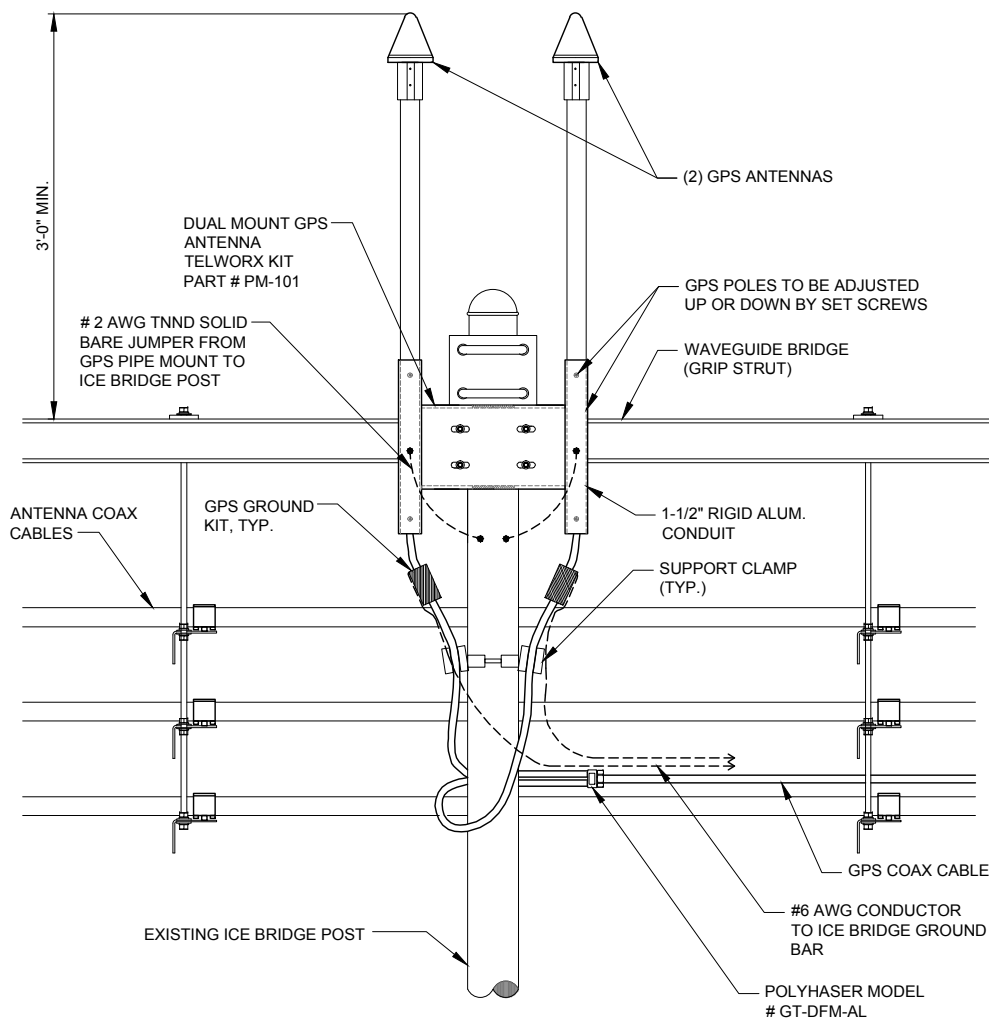
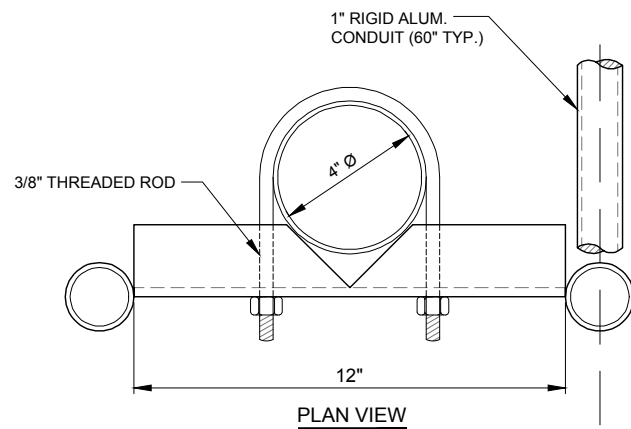
TERRA CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
PH: 847-698-6400
FAX: 847-698-6401

LOC. # 313803
N SHERDAN & McGLURE
2112-2118 LINN ST.
PEORIA, IL 61604

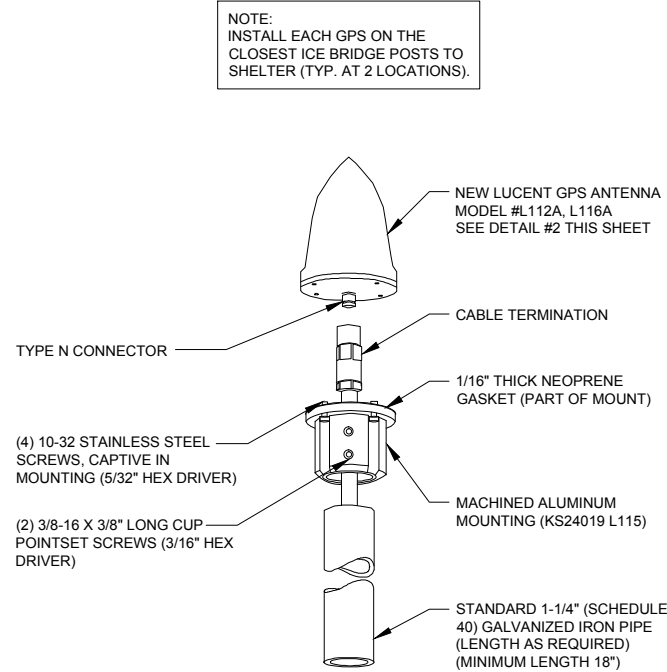
DRAWN BY: TJS
CHECKED BY: TAZ
DATE: 09/26/15
PROJECT #: 33-1966

SHEET TITLE
ANTENNA MOUNTING DETAILS

SHEET NUMBER
ANT-3

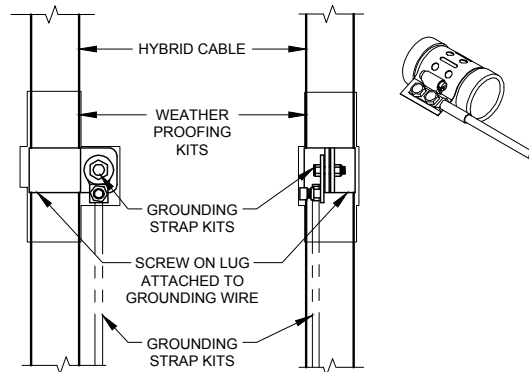


1 GPS MOUNTING DETAIL
N.T.S.

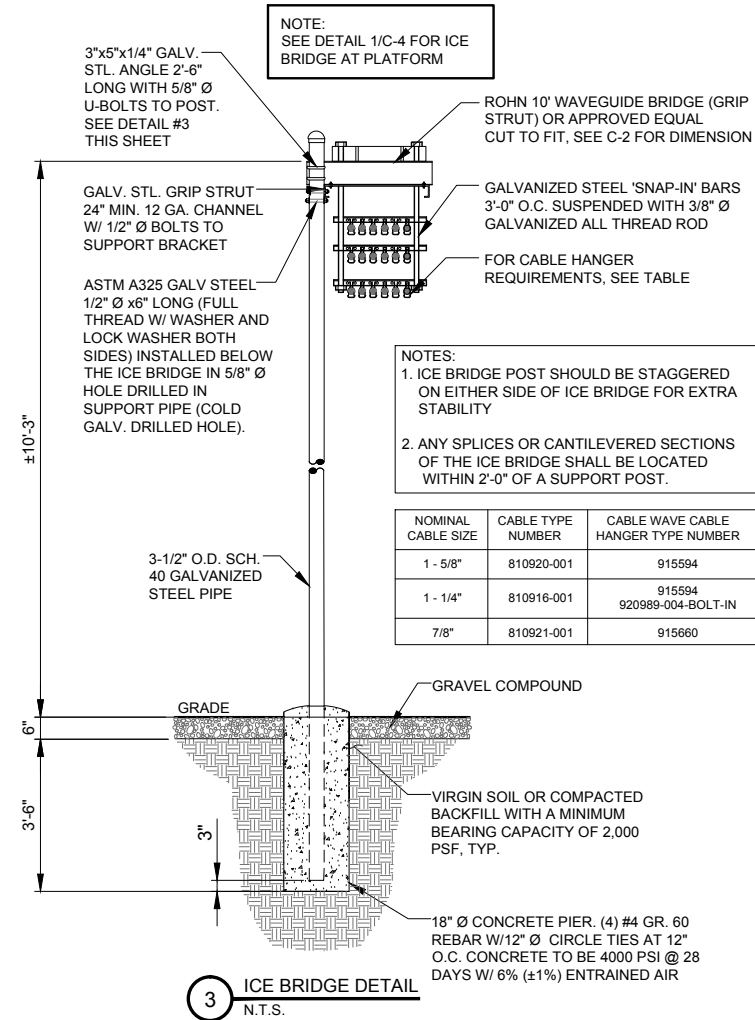


2 TYPICAL GPS DETAIL
N.T.S.

- 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	ISSUED FOR
1.	ISSUED FOR REVIEW	09/26/15	TJS	ISSUED FOR FINAL
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT	ISSUED FOR FINAL
3.	ADDITION OF ANTENNA MOUNTS	11/05/15	LS	ISSUED FOR FINAL
4.	ADDITION OF NTC	12/01/15	MAP	ISSUED FOR FINAL
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE	ISSUED FOR FINAL
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM	ISSUED FOR FINAL
7.	REVISED ECR	02/26/16	EW	ISSUED FOR FINAL
8.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM	ISSUED FOR FINAL

REVISIONS

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

LOC. # 313803

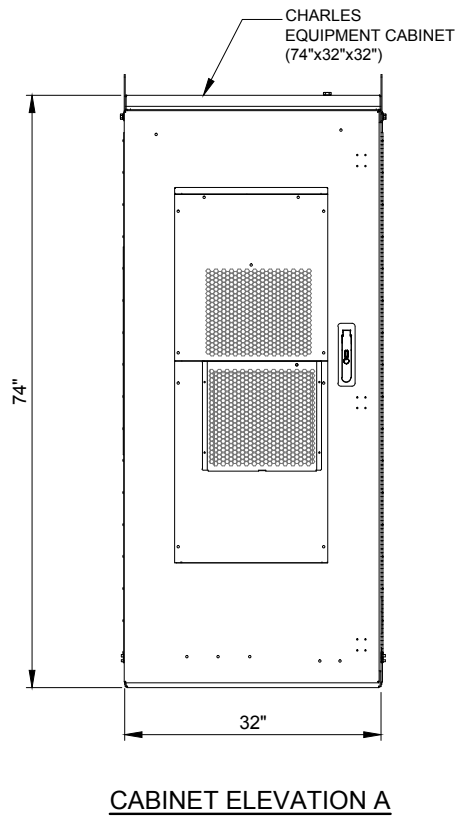
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PEORIA, IL 61604

DRAWN BY:	TJS
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DATE:	09/26/15
PROJECT #:	33-1966

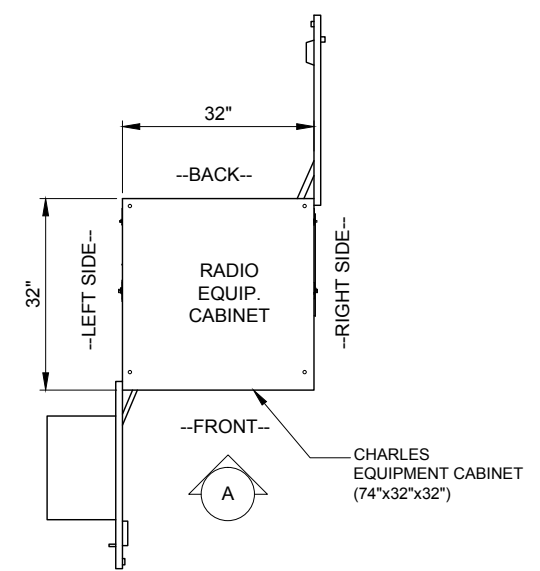
SHEET TITLE
ANTENNA MOUNTING DETAILS

SHEET NUMBER
ANT-4

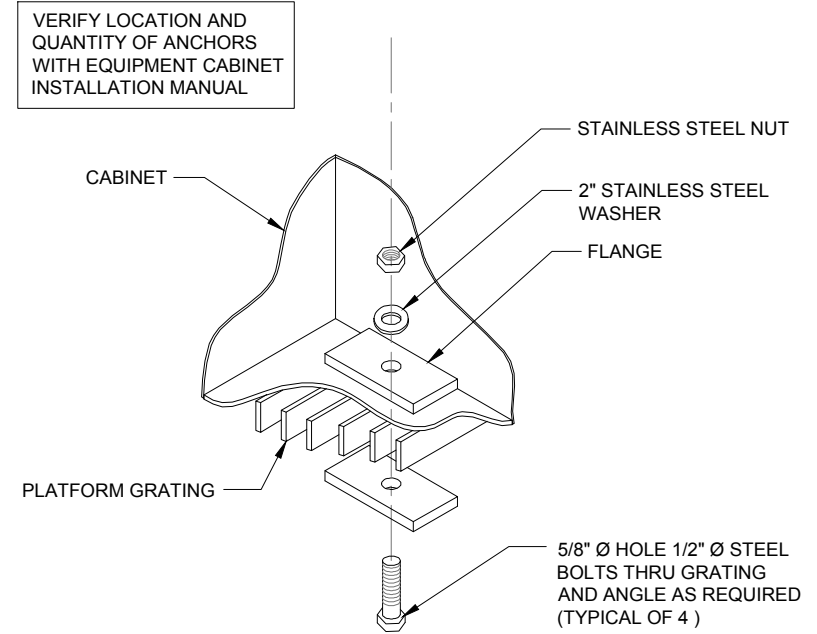


Category	
Dimensions and weight	74"H x 32"W x 32"D 535 lbs. as shipped
23" Front and Rear Equipment Rack Space and Hole Spacing	68" (39RU) EIA spacing with tapped 12 - 24 mounting holes
Color	Off-White
Material	.125" Welded Aluminum
Maximum Heat Dissipation	2900W
10000 BTU Air Conditioner with 2000W 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')

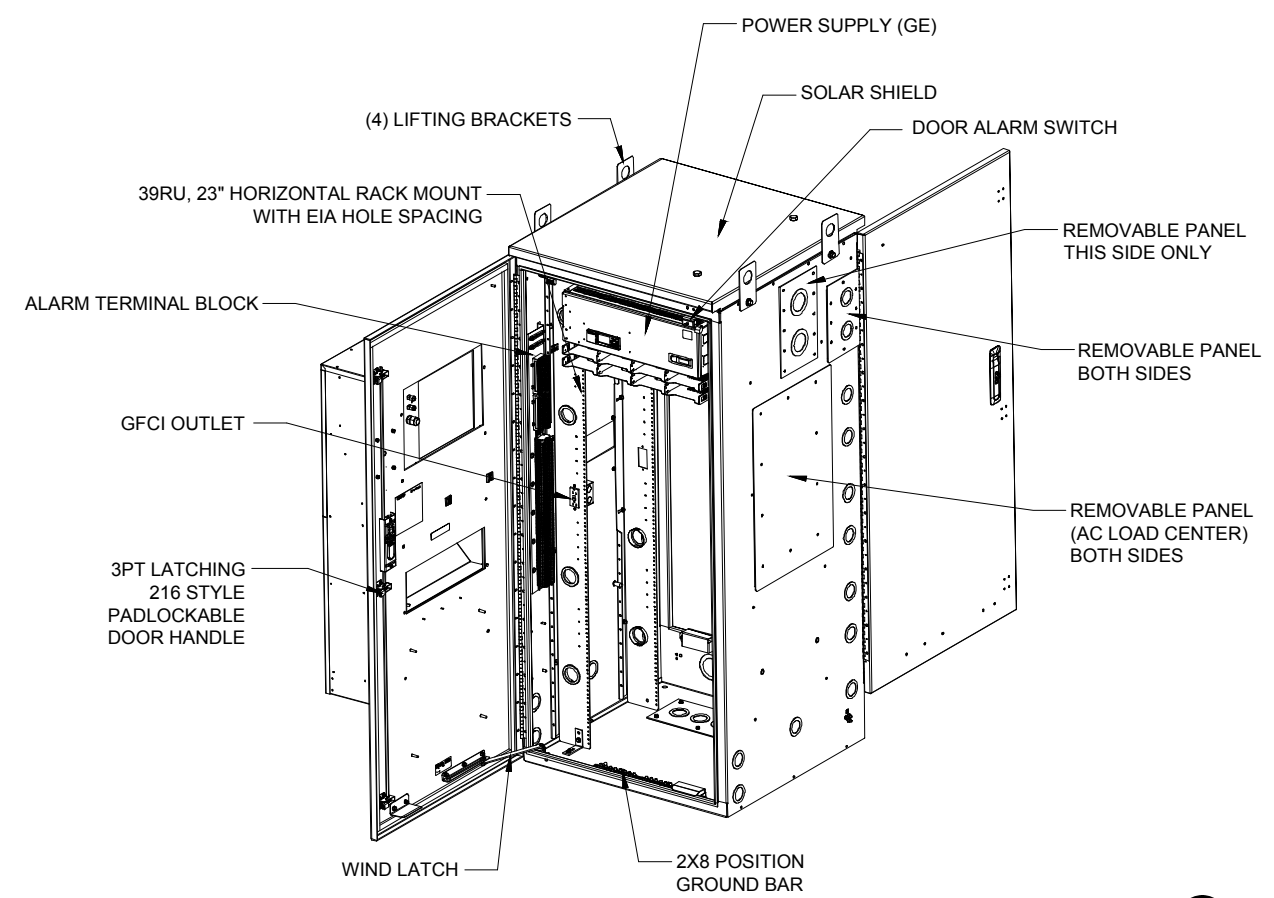
1 CHARLES CUBE-PM63912UN3 CABINET DIMENSIONS
SCALE: N.T.S



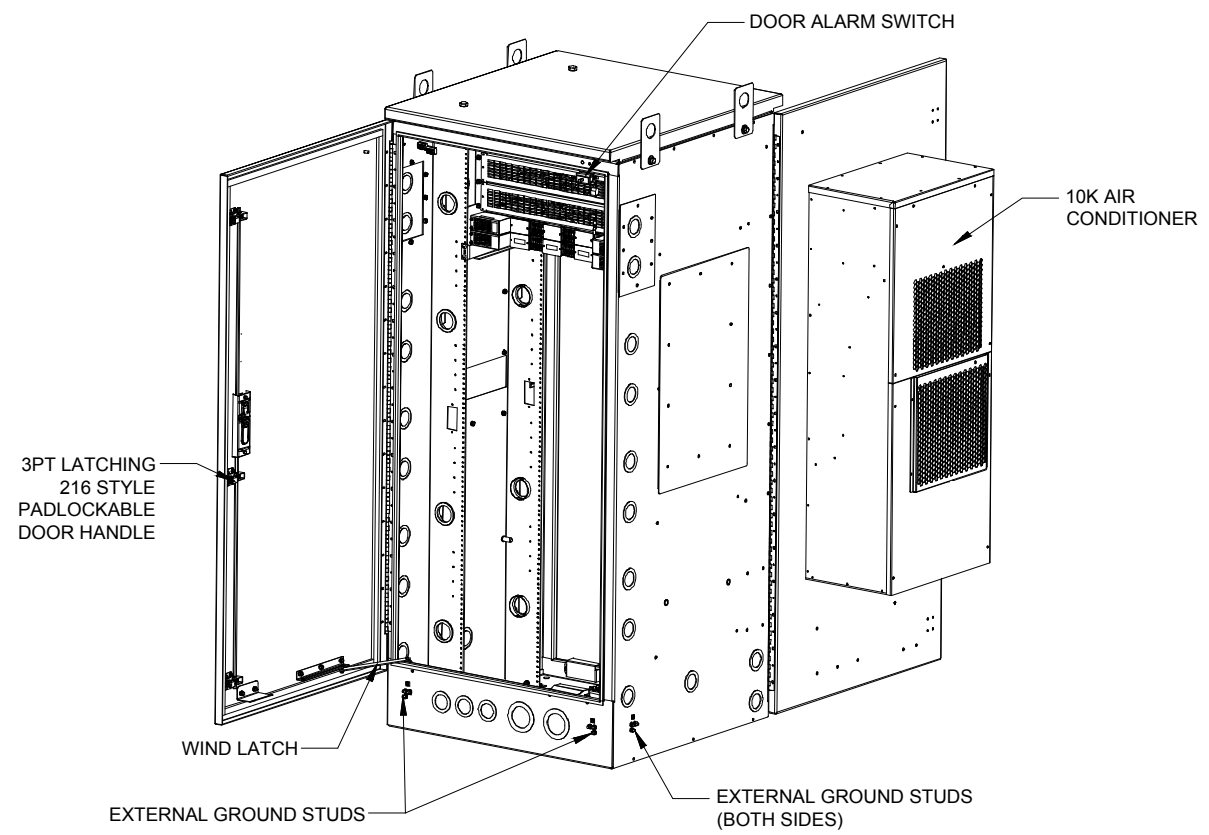
2 CHARLES CUBE-PM63912UN3 CABINET DIMENSION PLAN
SCALE: N.T.S



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



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



ISSUED FOR FINAL	04/11/16	JTM
UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM

NO.	DESCRIPTION	DATE	BY	TJS	MT	LS	MAP	BTE	JTM	EW
1.	ISSUED FOR REVIEW	09/26/15								
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4.	ADDITION OF NTC	12/01/15								
5.	UPDATE WITH CABINET LAYOUT	01/14/16								
6.	UPDATE PER CLIENT COMMENTS	02/24/16								
	REVISED ECR	02/26/16								

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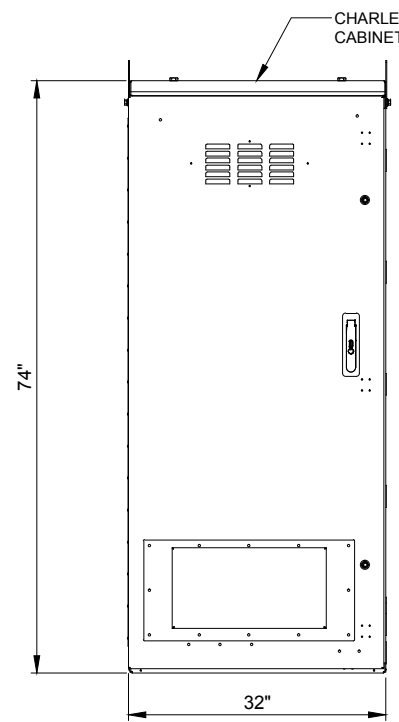
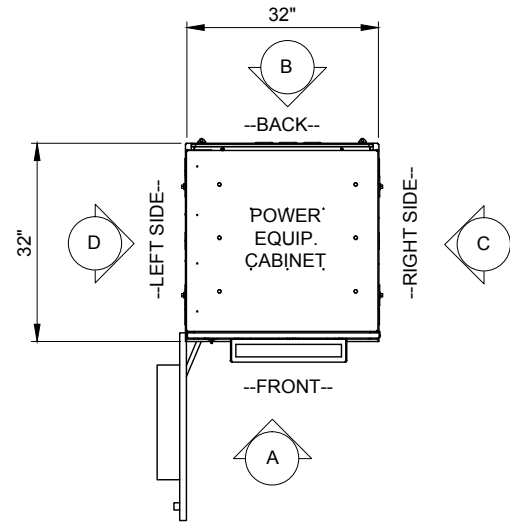
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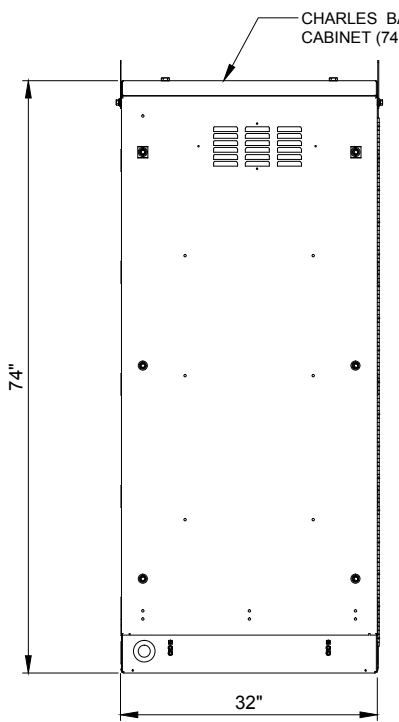
SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-1

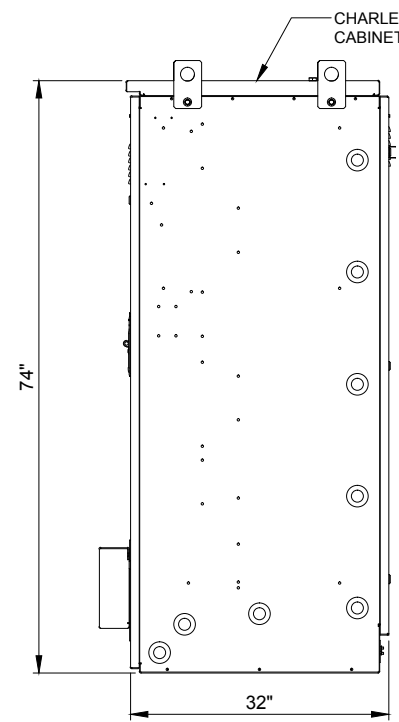
CHARLES CUBE-BB48E1HN1	
DIMENSIONS	32"W x 32"W x 72"H
WEIGHT	900 LBS (EMPTY)
WEIGHT	2685 LBS (w/Ni-Cd BTY)
BATT. SUPPORT	5 STRINGS SAFT TEL. 180, 48V
THERMAL	DAC



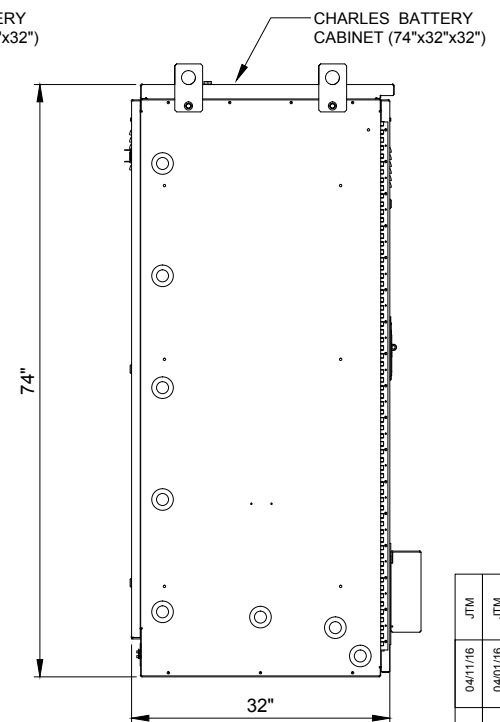
CABINET ELEVATION A



CABINET ELEVATION B



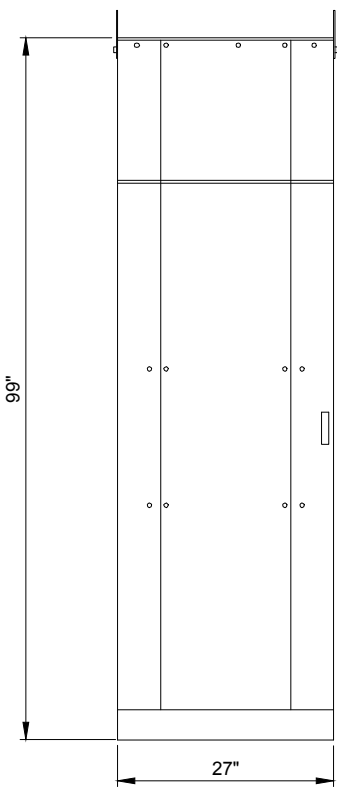
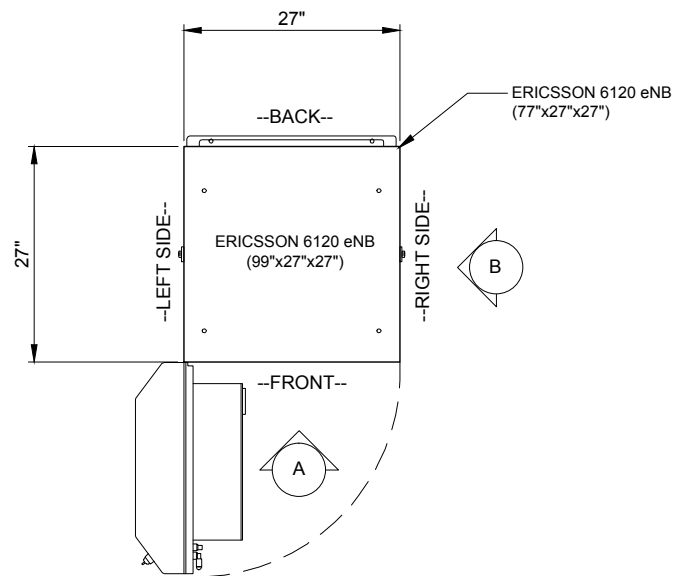
CABINET ELEVATION C



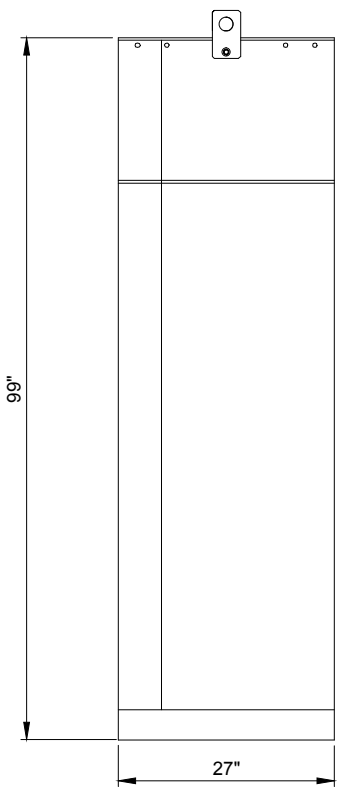
CABINET ELEVATION D

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

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

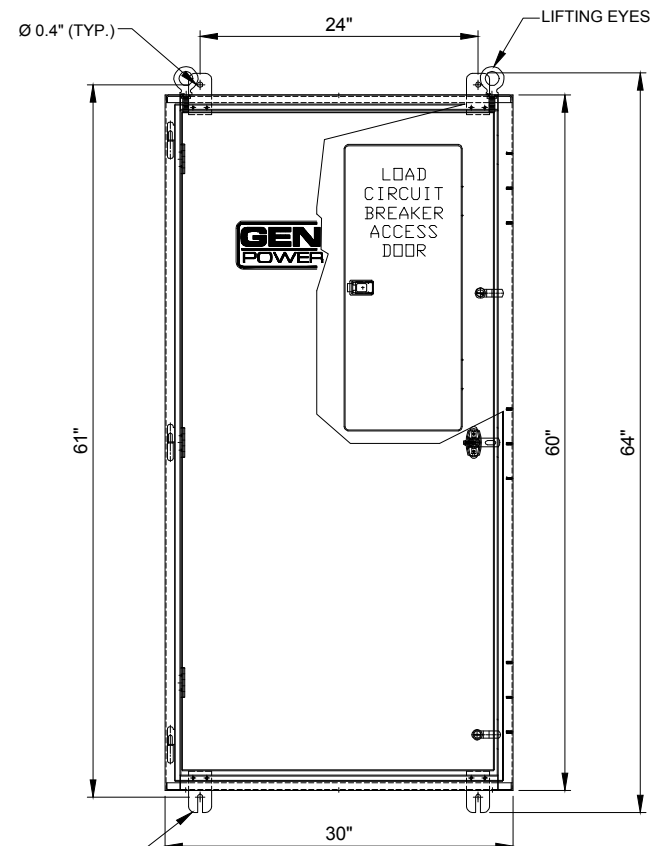


CABINET ELEVATION A



CABINET ELEVATION B

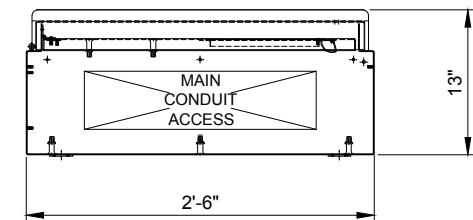
2 ERICSSON 6120 eNB CABINET DIMENSIONS
SCALE: N.T.S



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	
			TJS	MT
1.	ISSUED FOR REVIEW	09/26/15	TJS	MT
2.	ISSUED PER FIBER COORDINATION	10/20/15	TJS	MT
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4.	ADDITION OF NTC	12/01/15	MAP	JTM
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE	JTM
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM	EW
7.	REVISED ECR	02/26/16	JTM	EW

ISSUED FOR FINAL	JTM
04/11/16	JTM
04/01/16	JTM

ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT	JTM
04/11/16	JTM
04/01/16	JTM

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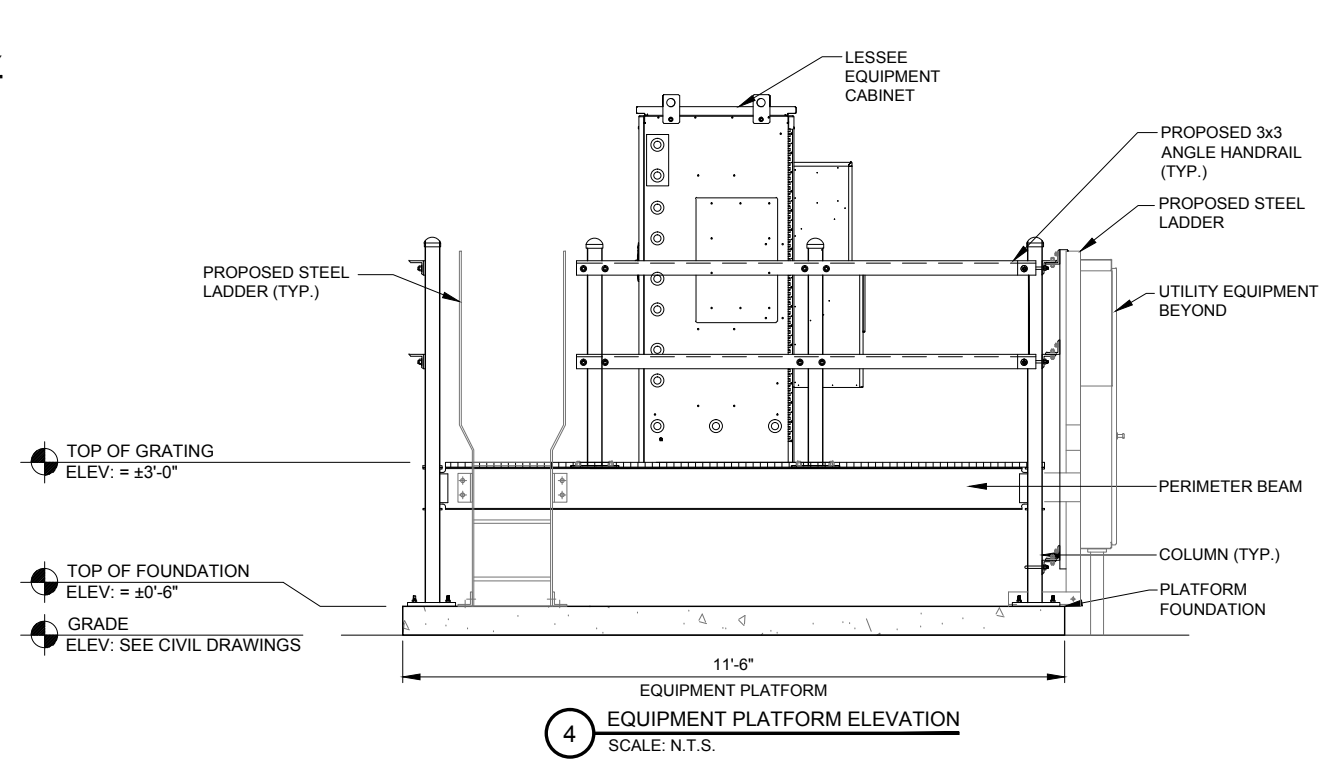
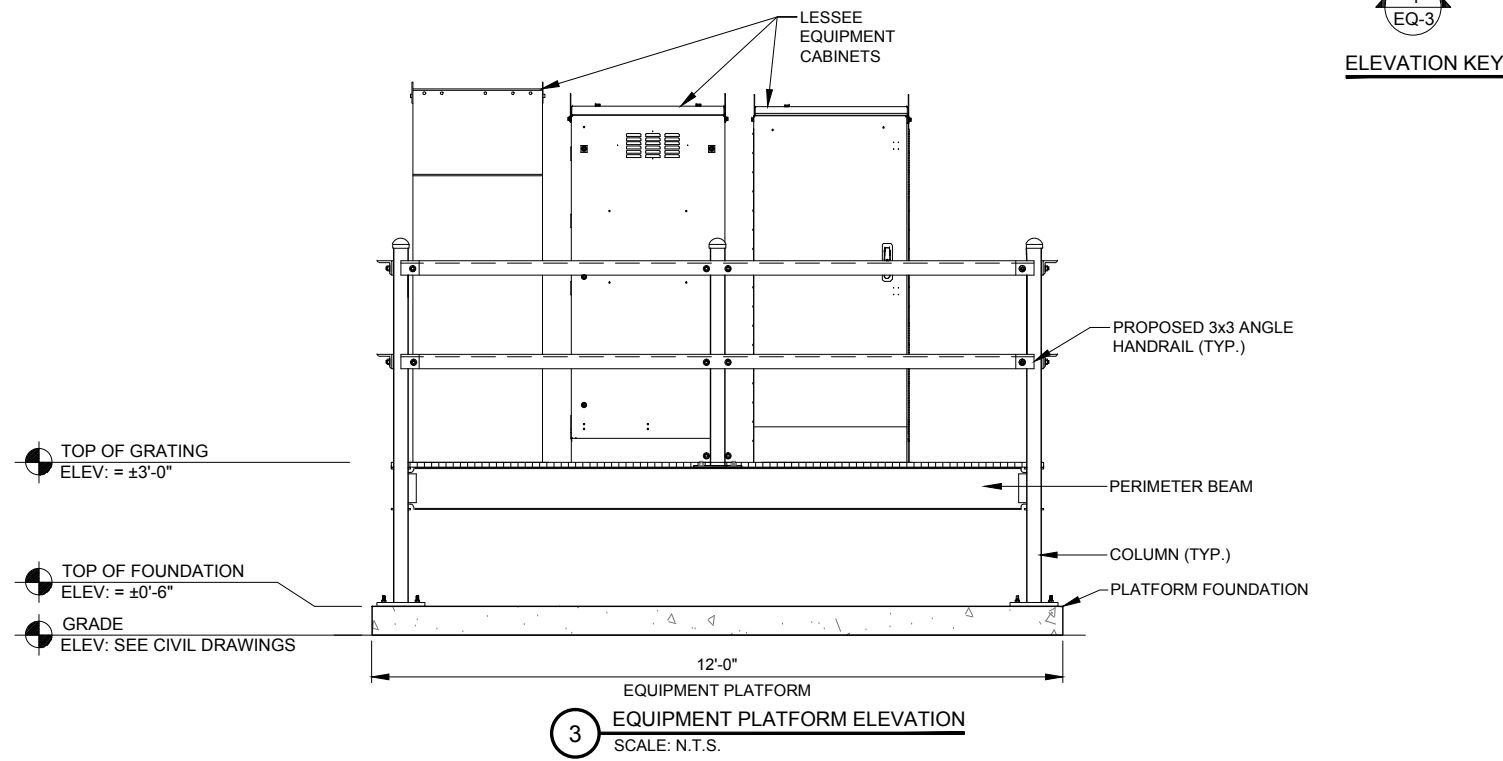
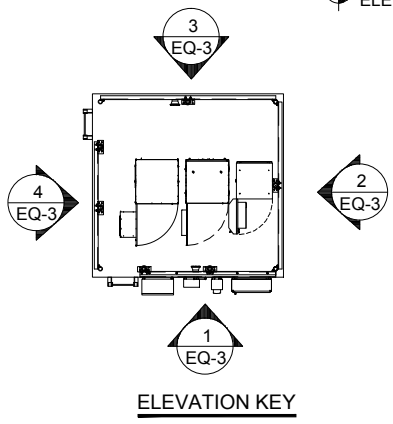
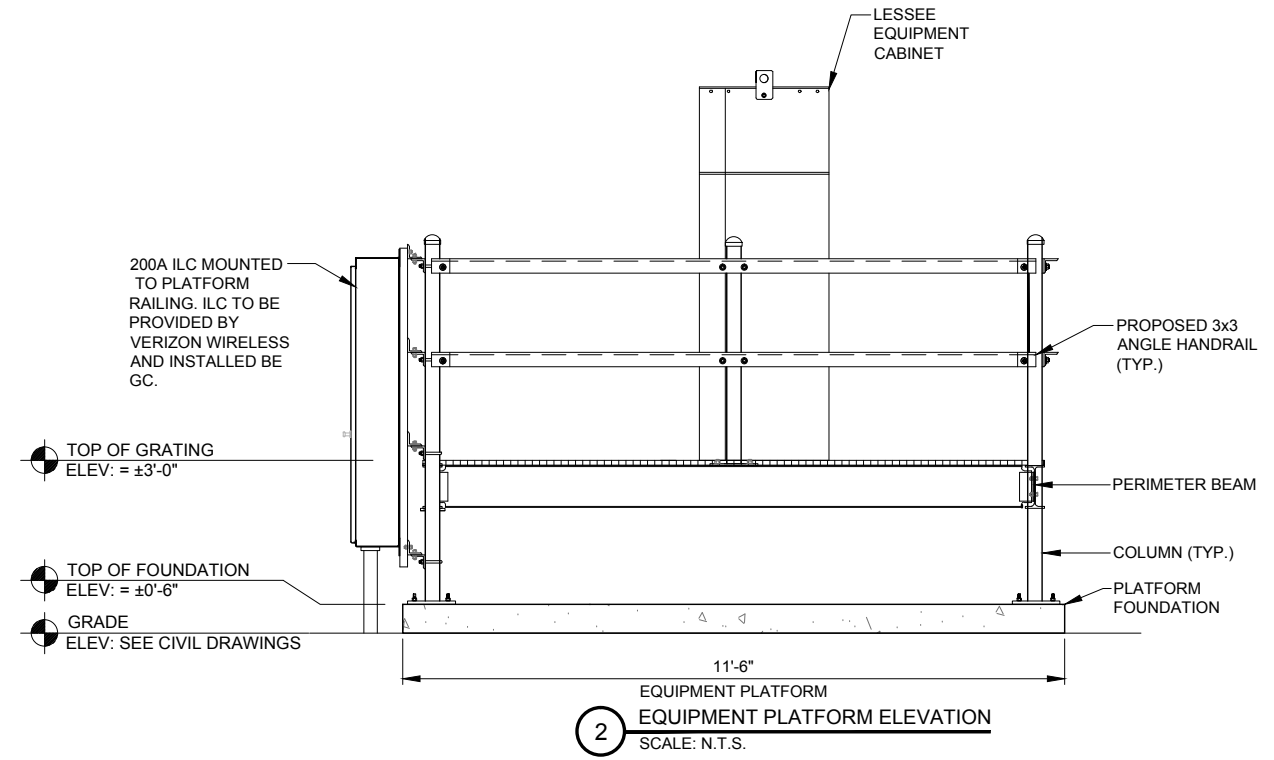
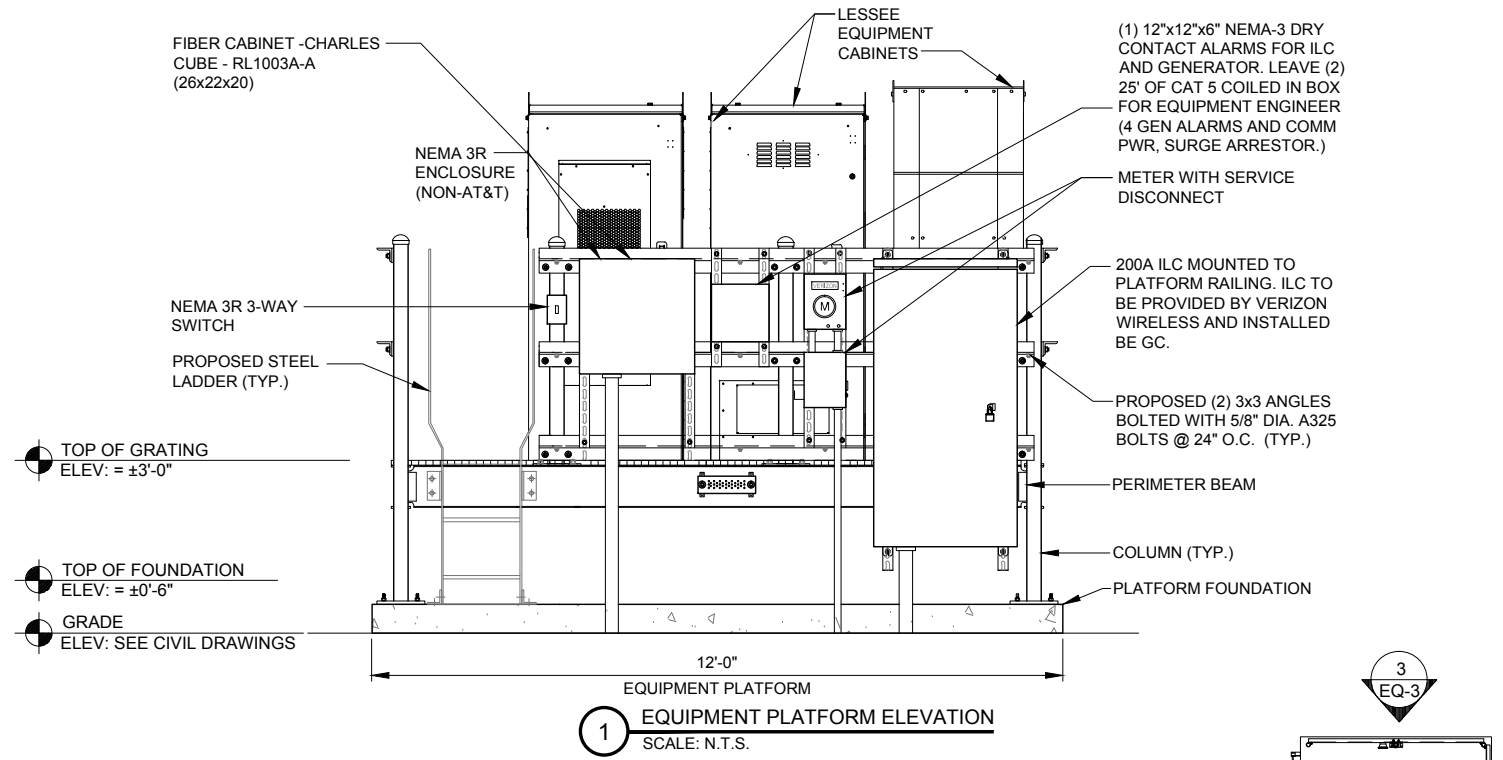
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N SHERDAN & McGLURE
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SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
EQ-2



NO.	DESCRIPTION	DATE	BY	JTM
1.	ISSUED FOR REVIEW	09/26/15	TJS	JTM
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT	
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SHEET TITLE
PLATFORM ELEVATIONS

SHEET NUMBER
EQ-3

UTILITY NOTES:

WORK INCLUDES:
 THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO INSTALL THE ELECTRICAL WORK COMPLETE IN CONNECTION WITH THIS VERIZON WIRELESS SITE AND SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:

1. THE PROVISIONS, INSTALLATION, AND CONNECTION OF A GROUNDING ELECTRODE SYSTEM COMPLETE WITH A BUILDING AND SECONDARY GROUNDING, CELLULAR TELEPHONE COMMUNICATIONS TOWER AND CONNECTIONS TO THE INCOMING ELECTRICAL DISTRIBUTION EQUIPMENT.
2. THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SERVICE AND ALL ASSOCIATED WIRE AND CONDUIT AS REQUIRED AND/OR INDICATED ON PLANS.
3. THE PROVISION, INSTALLATION OF CONDUIT AND CONNECTIONS FOR LOCAL TELEPHONE SERVICE.
4. THE FURNISHING AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUITORS, CONDUITS, METER SOCKET, AND CONNECTIONS TO THE SERVICE EQUIPMENT WITHIN THE ENCLOSURE.
5. TWO INCH (2") AND THREE INCH (3") DIAMETER PVC CONDUITS SCHEDULE 40.
6. ALL PVC CONDUITS SHOULD BE LEFT WITH NYLON PULL CORD FOR FUTURE USE.
7. EXCAVATION, TRENCHING, AND BACKFILLING FOR CONDUIT(S), CABLE(S), AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS, AND FEES:

1. ALL REQUIRED PERMITS, LICENSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SAME PAID BY CONTRACTOR.
2. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE CODES: STATE, LOCAL AND NATIONAL, AND THE DESIGN, PERFORMANCE CHARACTERISTICS AND METHODS OF CONSTRUCTION OF ALL ITEMS AND EQUIPMENT SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF THE VARIOUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING AUTHORITIES:

N.E.C.	NATIONAL ELECTRIC CODE
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
I.E.E.E.	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
A.S.T.M.	AMERICAN SOCIETY FOR TESTING MATERIALS
N.E.M.A.	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
U.L.	UNDERWRITERS LABORATORIES, INC.
N.F.P.A.	NATIONAL FIRE PROTECTION ASSOCIATION

RACEWAYS AND WIRING:

1. WIRING OF EVERY KIND MUST BE INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ENGINEER.
2. UNLESS OTHERWISE SPECIFIED, ALL WIRING SHALL BE COPPER (CU) TYPE THWN, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
3. RACEWAYS SHALL BE GALVANIZED STEEL, SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, UNLESS OTHERWISE NOTED. ALL RACEWAYS SHALL BE APPROVED FOR THE INSTALLATION.
4. PULL OR JUNCTION BOXES SHALL BE PROVIDED AS REQUIRED TO FACILITATE INSTALLATION OF RACEWAYS AND WIRING. PROVIDE JUNCTION AND PULLBOXES FOR CONDUIT RUNS WITH MORE THAN (360) DEGREES OF BENDS.
5. PROVIDE A COMPLETE RACEWAY AND WIRING INSTALLATION, PERMANENTLY AND EFFECTIVELY GROUNDED IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES.
6. ELECTRICAL PANELBOARD SHALL BE FURNISHED AND INSTALLED BY OTHERS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION.
7. ALL STEEL CONDUIT SHALL BE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

GENERAL NOTES:

SEE DETAILS AND SCHEDULES ON DRAWINGS AND SPECIFICATIONS FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ARCHITECTURAL, STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, COORDINATION, AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO ENGINEER BEFORE SUBMITTING BID. ALL EQUIPMENT FURNISHED BY OTHERS (FBO) SHALL BE PROVIDED WITH PROPER MOTOR STARTERS, DISCONNECTS, CONTROLS, ETC. BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFICALLY NOTED OTHERWISE. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND COMPLETELY WIRE ALL ASSOCIATED EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WIRE DIAGRAMS AND AS REQUIRED FOR A COMPLETE OPERATING INSTALLATION. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF (FBO) EQUIPMENT PRIOR TO ROUGH-IN OF CONDUIT AND WIRING TO AVOID CONFLICTS.

COORDINATION WITH UTILITY COMPANY:

THE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH LOCAL UTILITY COMPANY FOR A COMPLETE OPERATIONS SYSTEM, INCLUDING TRANSFORMER CONNECTIONS, CONCRETE TRANSFORMER PADS, IF REQUIRED, METER SOCKETS, PRIMARY CABLE RACEWAY REQUIREMENTS, SECONDARY SERVICE, ETC. PRIOR TO SUBMITTING BID TO INCLUDE ALL LABOR AND MATERIALS. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BID ANY OPTIONAL OR EXCESS FACILITY CHARGES ASSOCIATED WITH PROVIDING ELECTRICAL SERVICE FROM LOCAL UTILITY COMPANY. VERIFY BEFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY PRIOR TO SUBMITTING BID. ADJUST A.I.C. RATINGS OF ALL OVER CURRENT PROTECTION DEVICES IN DISTRIBUTION EQUIPMENT AS REQUIRED TO COORDINATE WITH AVAILABLE FAULT CURRENT FROM LOCAL UTILITY COMPANY. ALL GROUNDING RODS PROVIDED BY THE POWER OR TELEPHONE UTILITY COMPANIES MUST BE TIED INTO THE MAIN EXTERNAL GROUND RING.

UTILITY CONTACTS:

POWER: AMEREN
 MICHELLE MCIRVIN
 (309) 693-4879
 PREMISE # 130812810

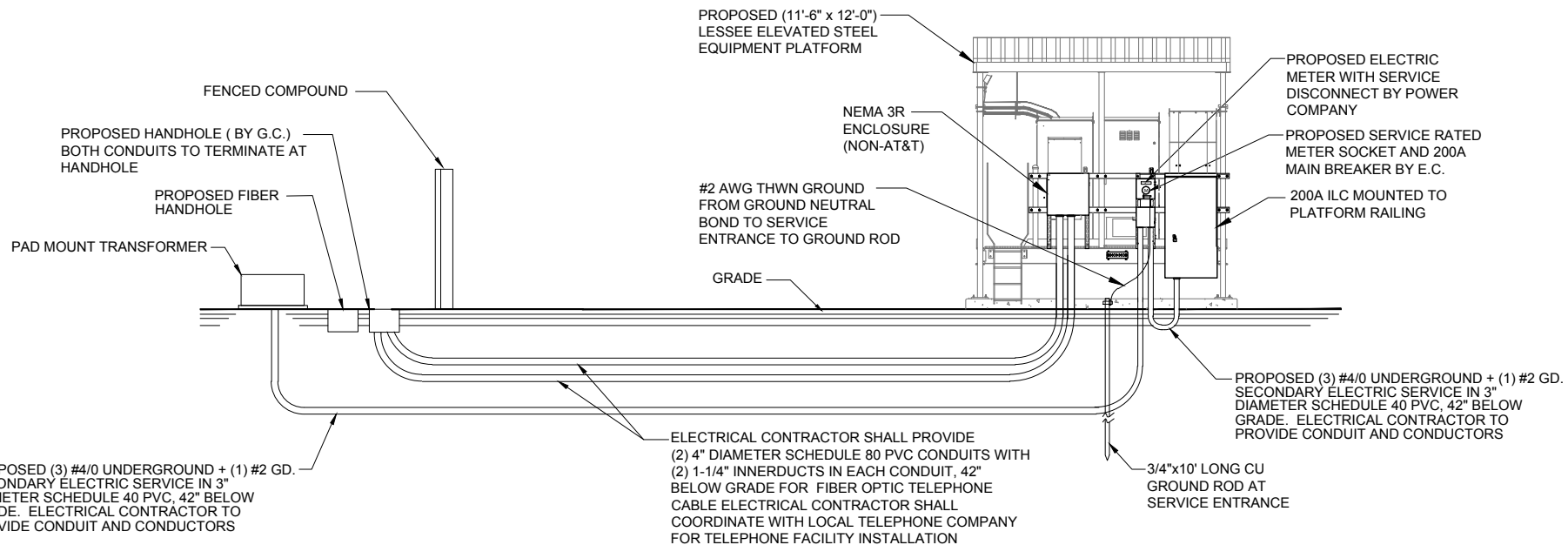
FIBER: PEG
 MICHAEL GRIFFIN
 (214)-620-4245

OPERATES 24 HOURS
 A DAY 365 DAYS A YEAR



ELECTRICAL CONTRACTOR SHALL COORDINATE WITH POWER COMPANY FOR ENTRY INTO FENCED AREA BY EITHER MAILING A KEY TO A SLAVE LOCKED CHAIN AT THE FENCE GATE OR CALLING AND LEAVING A COMBINATION.

FOR CONTINUATION AND CONNECTION OF ELECTRIC AND TELEPHONE SERVICE. COORDINATE WITH ELECTRIC AND PHONE COMPANY



ELECTRICAL SERVICE: 200 AMP 120/240V SINGLE PHASE 3 WIRE

NOTE: VERIFY TELEPHONE ROUTING REQUIREMENTS WITH LOCAL TELEPHONE COMPANY

2 ELECTRICAL RISER DIAGRAM

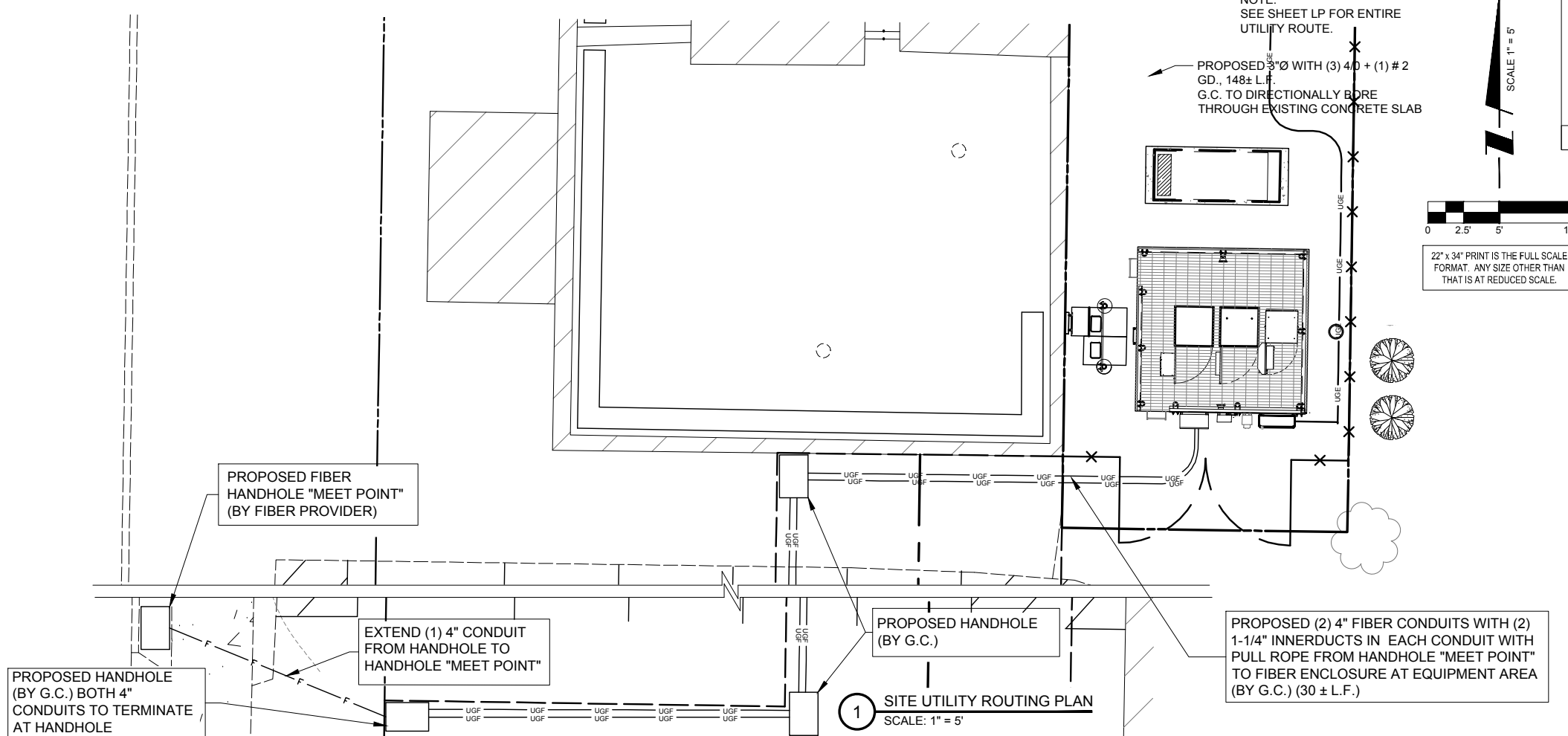
SCALE: N.T.S.

CONTRACTOR SHALL BUILD INTO THE PRICE OF THE BID THE COST OF TWO (2) MOBILIZATIONS:
 1) POWER/TELCO PERMIT PULLED PRIOR TO BUILDING PERMIT AND PRELIMINARY WORK (SMART JACK ON A STICK, ETC) COMPLETED PRIOR TO GENERAL CONSTRUCTION
 2) RETURN TO COMPLETE GENERAL ELECTRICAL CONSTRUCTION

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6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM		
	REVISED ECR	02/26/16	EW		

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PROPOSED (2) 4" FIBER CONDUITS WITH (2) 1-1/4" INNERDUCTS IN EACH CONDUIT WITH PULL ROPE FROM HANDHOLE "MEET POINT" TO FIBER ENCLOSURE AT EQUIPMENT AREA (BY G.C.) (30 ± L.F.)

1 SITE UTILITY ROUTING PLAN

SCALE: 1" = 5'

CHICAGO SMSA
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SHEET TITLE
UTILITY ROUTING PLAN

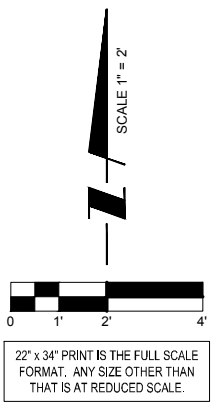
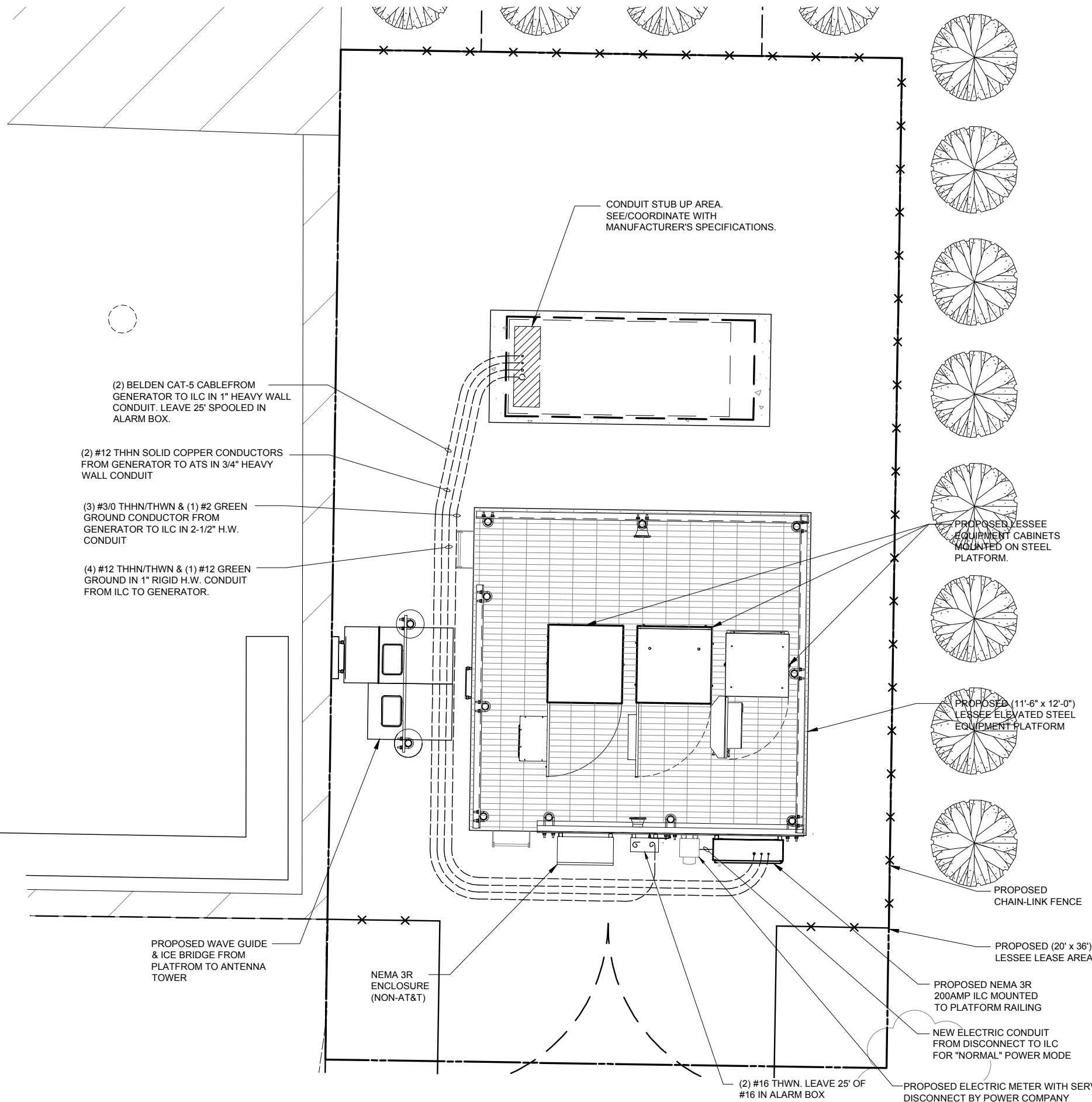
SHEET NUMBER
E-1

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.

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.



ISSUED FOR FINAL		JTM
8.	04/11/16	JTM
ISSUED FOR PERMIT		JTM
7.	04/01/16	JTM

REVISIONS	
NO.	DESCRIPTION
1.	ISSUED FOR REVIEW
2.	ISSUED PER FIBER COORDINATION
3.	ADDITION OF ANTENNA MOUNTS
4.	UPDATE WITH CABINET LAYOUT
5.	UPDATE PER CLIENT COMMENTS
6.	REVISED ECR

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

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

LOC. # 313803
N SHERDAN & McGLURE
2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY: TJS
CHECKED BY: TAZ
DATE: 09/26/15
PROJECT #: 33-1966

SHEET TITLE
**GENERATOR
UTILITY ROUTING PLAN**

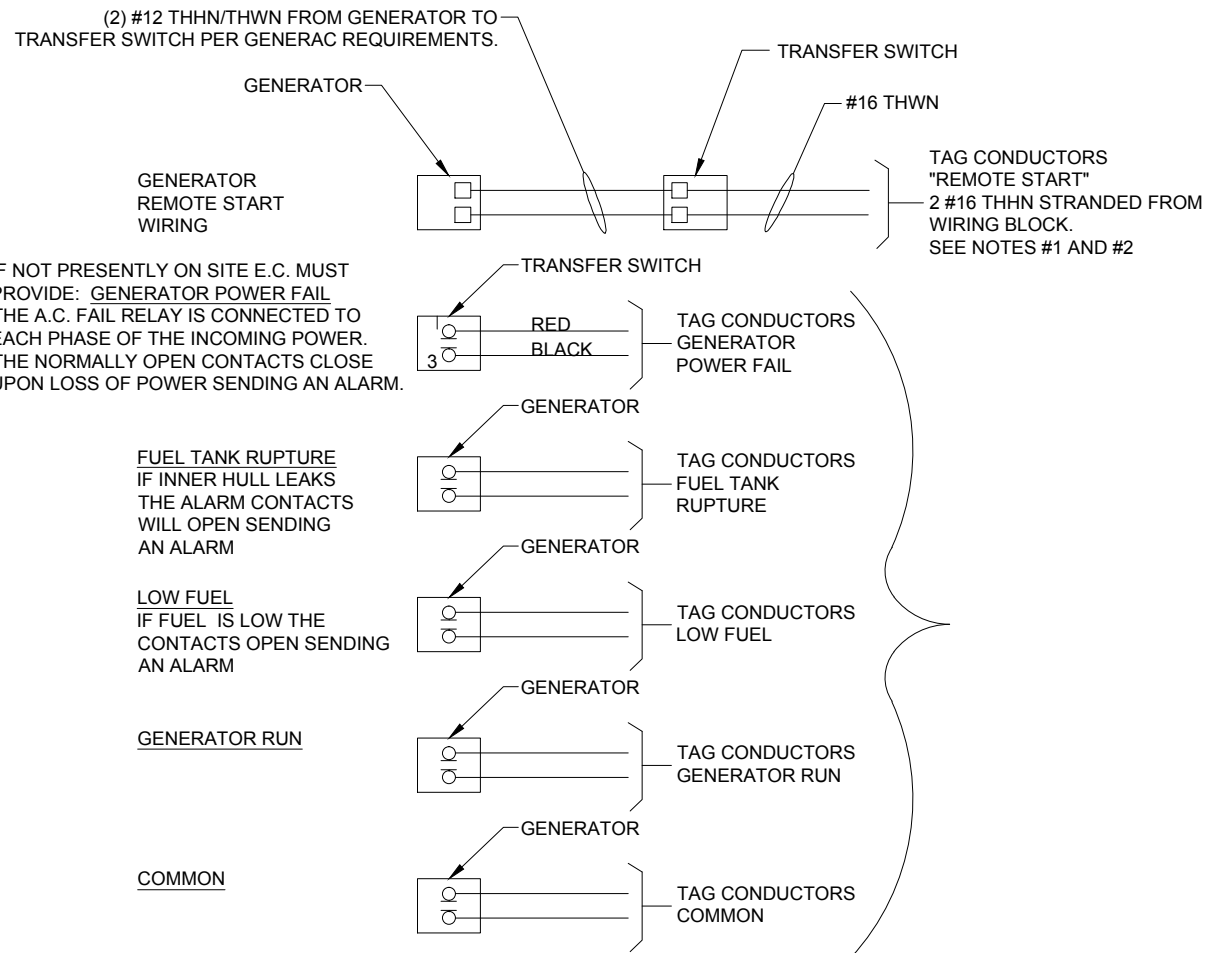
SHEET NUMBER
E-1A

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A DAY 365 DAYS A YEAR

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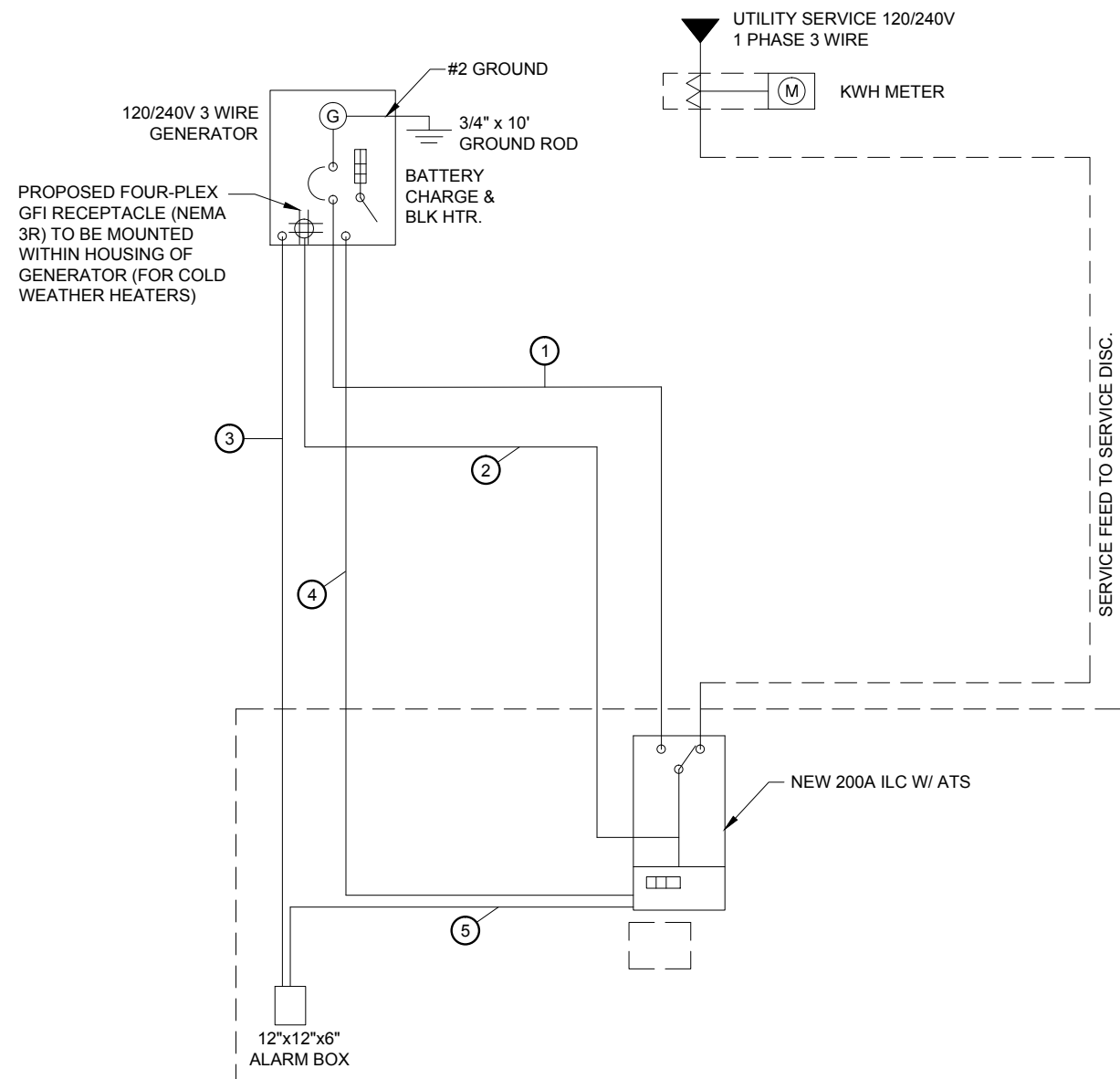
1 ALARM WIRING
N.T.S.

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) #3/0 & (1) #2 GND IN 2-1/2" 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



2 NEW SINGLE LINE DIAGRAM
N.T.S.

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NO.	DESCRIPTION	DATE	BY	TJS	MT	LS	MAP	BTE	JTM	EW
1.	ISSUED FOR REVIEW	09/26/15	TJS							
2.	ISSUED PER FIBER COORDINATION	10/20/15								
3.	ADDITION OF ANTENN MOUNTS	11/05/15								
4.	ADDITION OF NTC	12/01/15								
5.	UPDATE WITH CABINET LAYOUT	01/14/16								
6.	UPDATE PER CLIENT COMMENTS	02/24/16								
7.	REVISED ECR	02/26/16								

LOC. # 313803

N SHERDAN & McGLURE

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PEORIA, IL 61604

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SHEET TITLE
GENERATOR SINGLE LINE DIAGRAM & ALARM WIRING

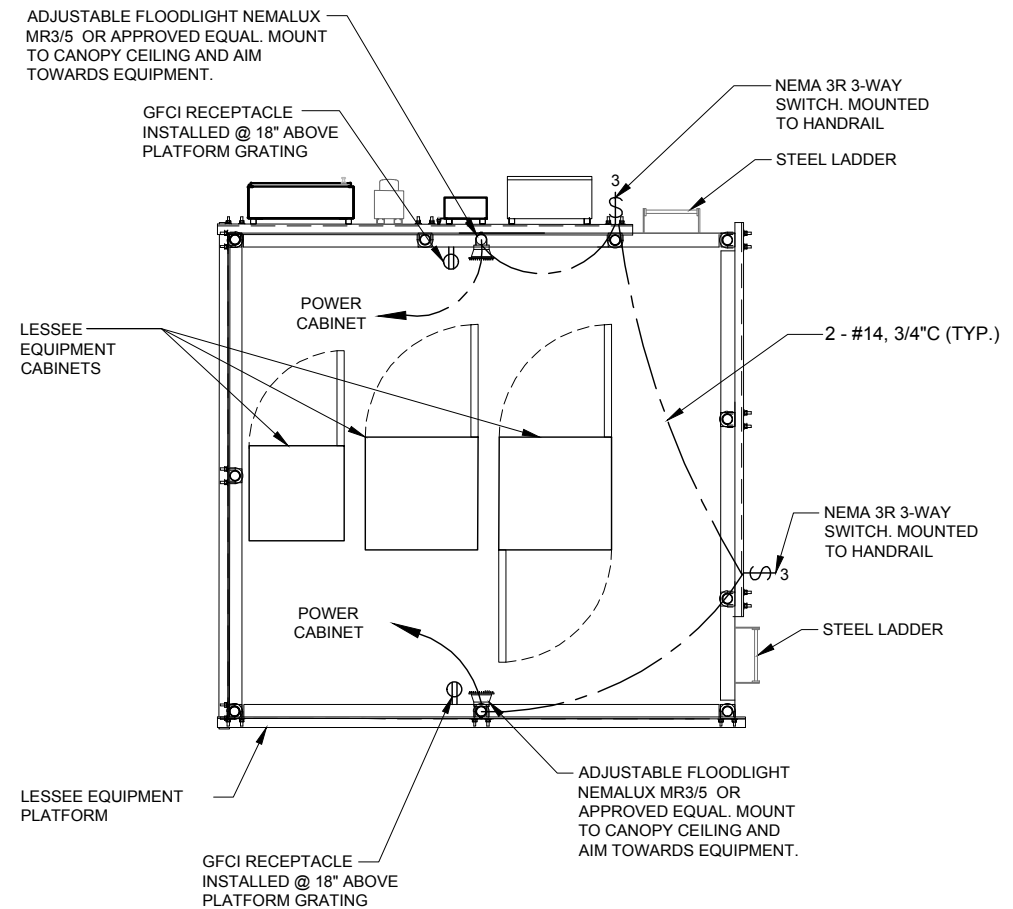
SHEET NUMBER
E-1B

VERIZON WIRELESS PANEL "A" SCHEDULE									
MAIN: 200/2		VOLTAGE: 120/240		PHASE: 1		WIRE: 3			
DESCRIPTION	BRKR.	WATTS	S		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.

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6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
7.	REVISED ECR	02/26/16	EW

NO.	DESCRIPTION	DATE	BY
8.	ISSUED FOR FINAL	04/11/16	JTM
9.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM

LOC. # 313803

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2112-2118 LINN ST.
 PEORIA, IL 61604

DRAWN BY:	TJS
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DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
PANEL SCHEDULE & LIGHTING PLAN

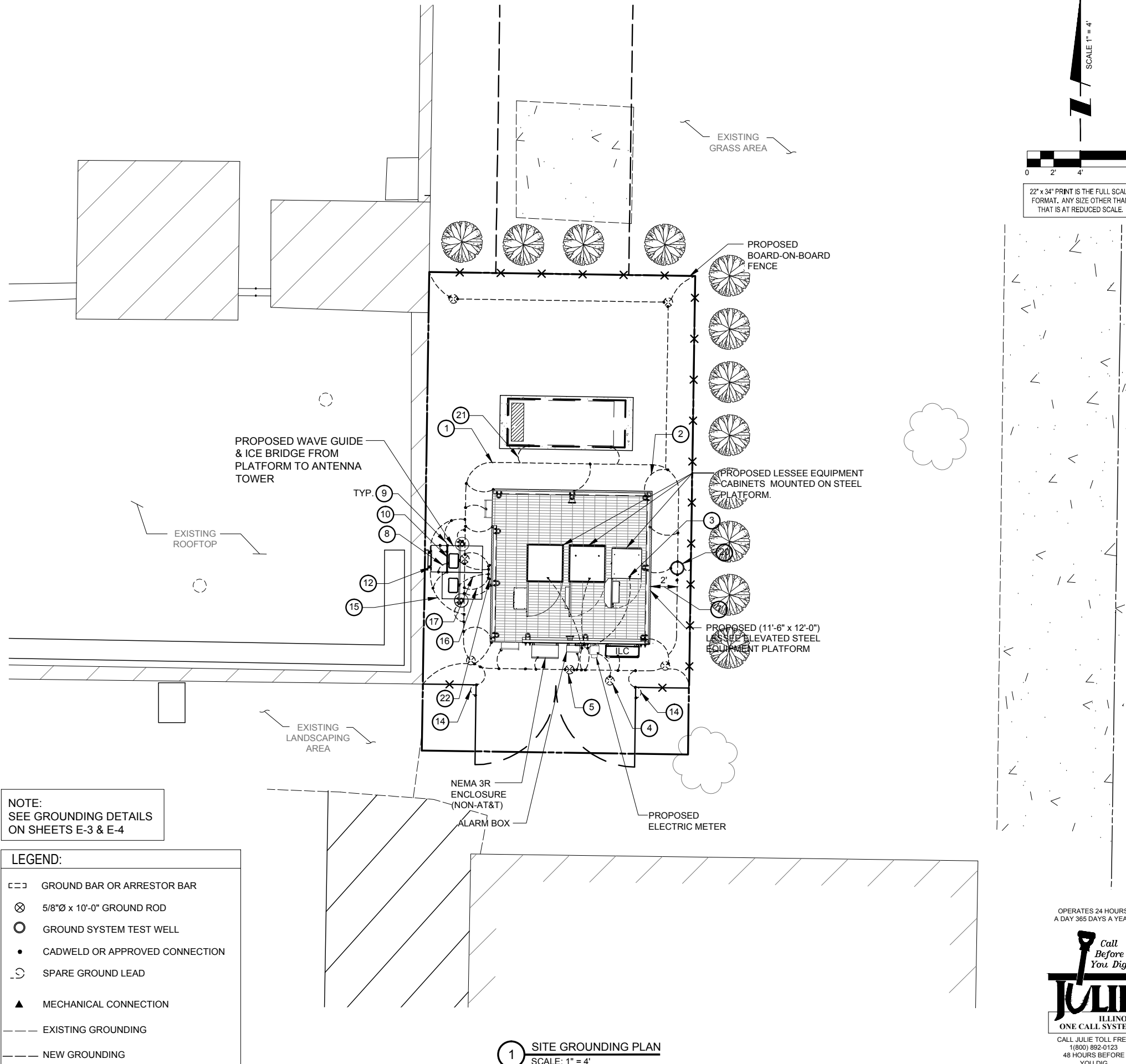
SHEET NUMBER
E-1C

GROUNDING ELECTRODE SYSTEM NOTES:

1. ALL GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC PROCESS CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, ETC. ALL CABLE TO GROUND RODS, GROUND RODS SPLICES AND LIGHTNING PROTECTION SYSTEM AS INDICATED. GROUND FOUNDATION ONLY AS INDICATED BY PM. ALL MATERIALS USED (MOLDS, WELDING, METAL, TOOLS, ETC.) SHALL BE BY EXOTHERMIC PROCESS AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND PROCEDURES. GROUND CONDUCTOR SHALL HAVE A MINIMUM 24" BENDING RADIUS.
2. ALL EXOTHERMIC CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COLORED TO MATCH SURFACE WITH (2) TWO COATS OF SHERWIN-WILLIAMS GALVITE (WHITE) PAINT B50W3 (OR EQUAL) OR SHERWIN-WILLIAMS SILVERBRITE (ALUMINUM) B59S11 (OR EQUAL).
3. ALL ELECTRICAL & MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTI-OXIDANT COMPOUND APPLIED TO CONNECTION
4. FENCE/GATE: GROUND FENCE POSTS WITHIN 6 FEET OF PLATFORM AND 25 FEET OF TOWER AS INDICATED ON DRAWINGS. GROUND EACH GATE POST AND CORNER POST. GROUND CONNECTIONS TO FENCE POSTS SHALL BE MADE BY THE EXOTHERMIC PROCESS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES. ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY THE EXOTHERMIC PROCESS, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
6. UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN THE BID.
7. GROUND TEST: GROUND TESTS SHALL BE PERFORMED AS REQUIRED BY LESSEE STANDARD PROCEDURES. GROUND GRID RESISTANCE SHALL NOT EXCEED 5 OHMS.
8. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS FOLLOWS:
 1. ONE (1) COPY TO OWNER REPRESENTATIVE
 2. ONE (1) COPY TO ENGINEER
 3. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE

TYPICAL KEYED GROUNDING NOTES

- 1 #2 AWG T1NND SOLID BARE COPPER CONDUCTOR 42" BELOW GRADE (TYPICAL) MINIMUM 24" BENDING RADIUS
- 2 PLATFORM CORNER POST, STEEL COLUMN, STEEL BEAM & CANOPY GROUND
- 3 CABINET GROUND BOLTED TO UNIT HOUSING
- 4 DISCONNECT AND ELECTRIC SERVICE GROUND TO GROUND ROD
- 5 5/8" x 10' COPPER CLAD GROUND ROD
- 6 GROUND CHAIN LINK FENCE (TYPICAL) EXOTHERMIC CONNECTION (TYPE VS) GROUND FENCE POSTS WITHIN 6 FEET OF PLATFORM AND 25 FEET OF TOWER. (SEE DETAIL, SHEET E-5.)
- 7 MAINTAIN TWO FOOT DISTANCE OFF OF STRUCTURES.
- 8 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.
- 9 EXOTHERMICALLY WELD COPPER GROUND BAR TAIL TO HALO GROUND RING (EXOTHERMIC CONNECTION TYPE TA) BY ANTENNA CONTRACTOR. FINAL CONNECTION BY ELECTRICAL CONTRACTOR.
- 10 4"x20"x1/4" T1NND INSULATED COPPER GROUND BA, NON ISOLATED WITH 10.0' LONG #2 AWG T1NND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VV)
- 11 GROUND CABLE WAVEGUIDE BRIDGE (TYP.) BY ELECTRICAL CONTRACTOR.
- 12 4"x20"x1/4" T1NND INSULATED COPPER GROUND BAR, NON-ISOLATED, WITH 10.0' LONG #2 AWG T1NND SOLID COPPER WIRE WELDED TAILS (HARGER GBIT 14420VV)
- 13 EXISTING TOWER OR COMPOUND GROUND RING (V.I.F.)
- 14 GATE JUMPERS (SEE DETAIL, SHEET E-3)
- 15 BOND EXISTING TOWER GROUND RING TO PROPOSED GROUND RING WITH #2 AWG T1NND SOLID COPPER CONDUCTOR IN 2 LOCATIONS.
- 16 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.
- 17 BOND RAYCAP TO MGB.
- 18 EACH TOWER FOUNDATION REBAR MESH/CAGE TO BE BONDED TO TOWER GROUND RING WITH #2 T1NND SOLID COPPER CONDUCTOR
- 19 EACH TOWER FOUNDATION TO HAVE AT LEAST ONE ANCHOR BOLT BONDED TO TOWER GROUND RING WITH #2 T1NND SOLID COPPER CONDUCTOR
- 20 COPPER CLAD GROUND ROD WITH INSPECTION WELL TOP OF GROUND ROD MAX 24" BURY. SEE DETAIL SHEET G-2.
- 21 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.
- 22 MGB MOUNTED UNDER PERIMETER BEAM

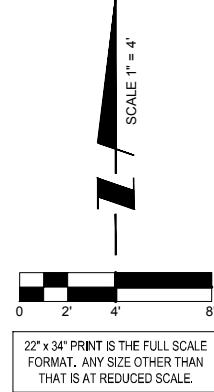


NOTE:
SEE GROUNDING DETAILS
ON SHEETS E-3 & E-4

LEGEND:

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

1 SITE GROUNDING PLAN
SCALE: 1" = 4'



NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	09/26/15	TJS
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT
3.	ADDITION OF ANTENNA MOUNTS	11/05/15	LS
4.	ADDITION OF NTC	12/01/15	MAP
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
7.	REVISED ECR	02/26/16	EW

REVISIONS

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LOC. # 313803
N SHERDAN & McGLURE
2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
SITE GROUNDING PLAN

SHEET NUMBER
E-2

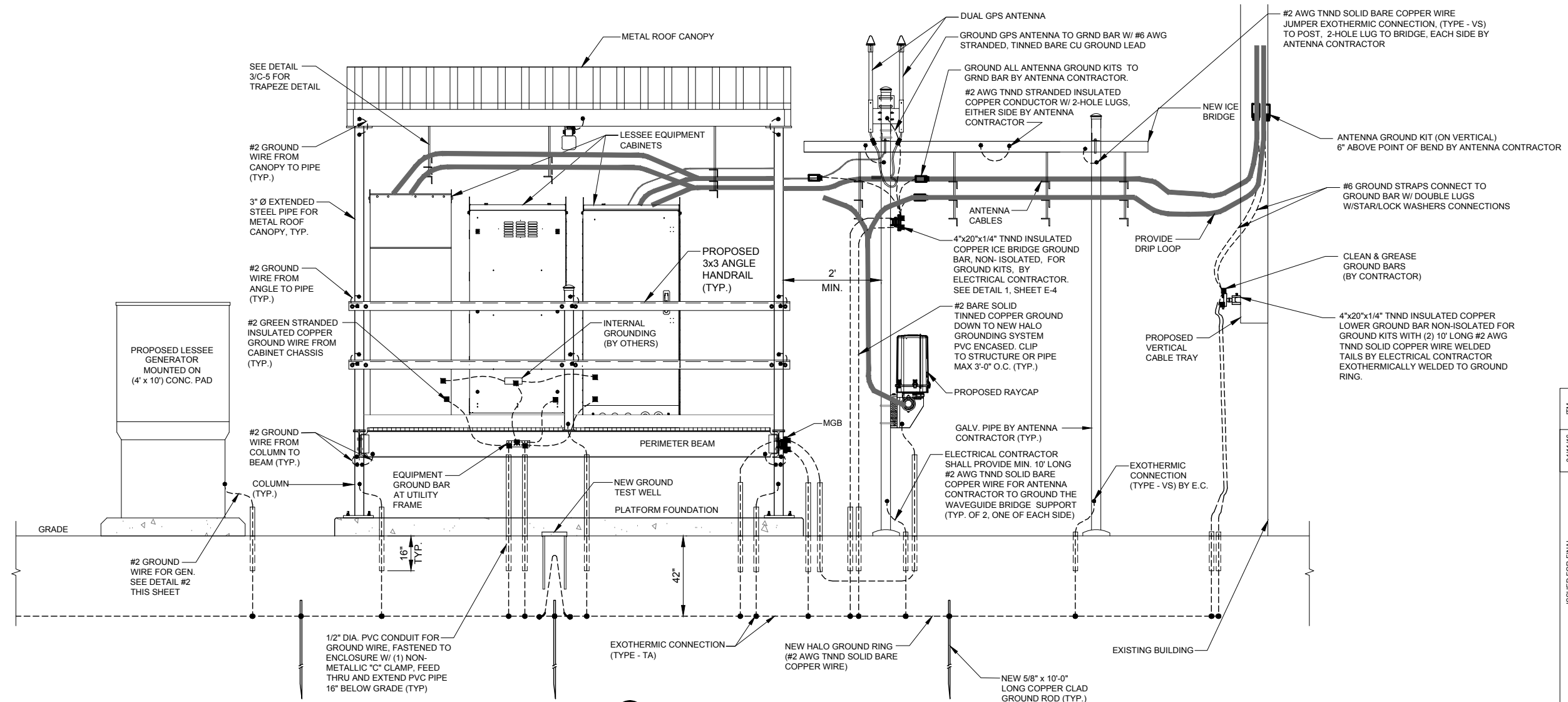
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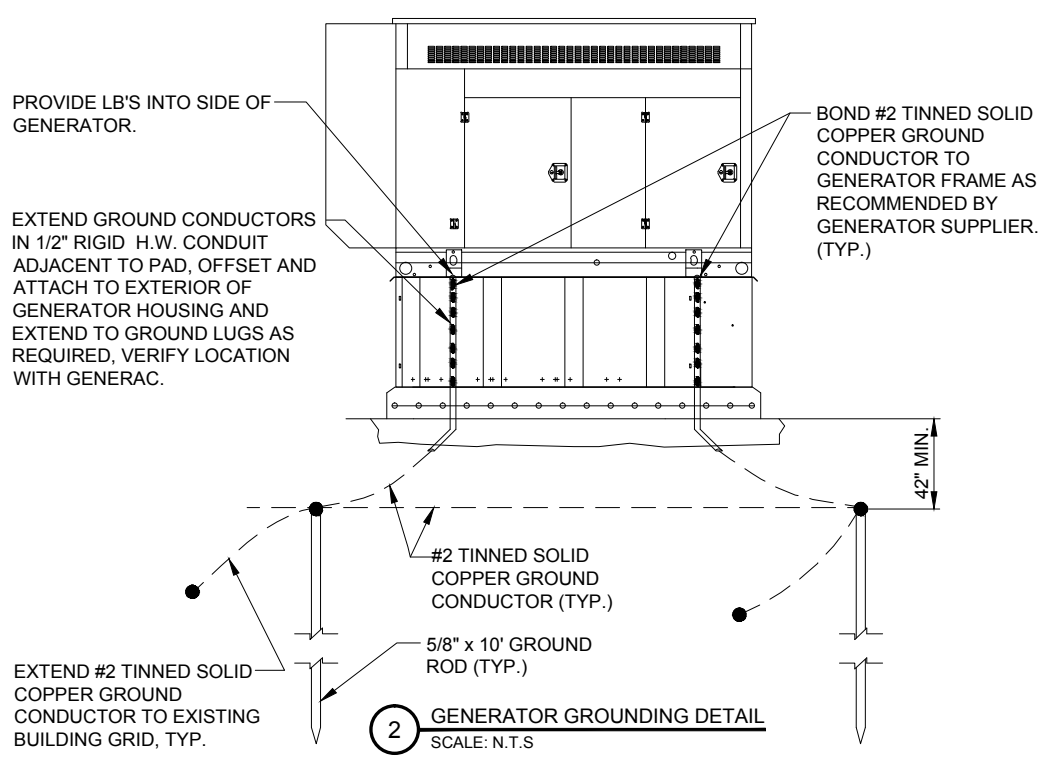
CHICAGO SMSA
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d/b/a VERIZON WIRELESS

TERRA
CONSULTING GROUP, LTD.
600 BUSSE HIGHWAY
PARK RIDGE, IL 60068
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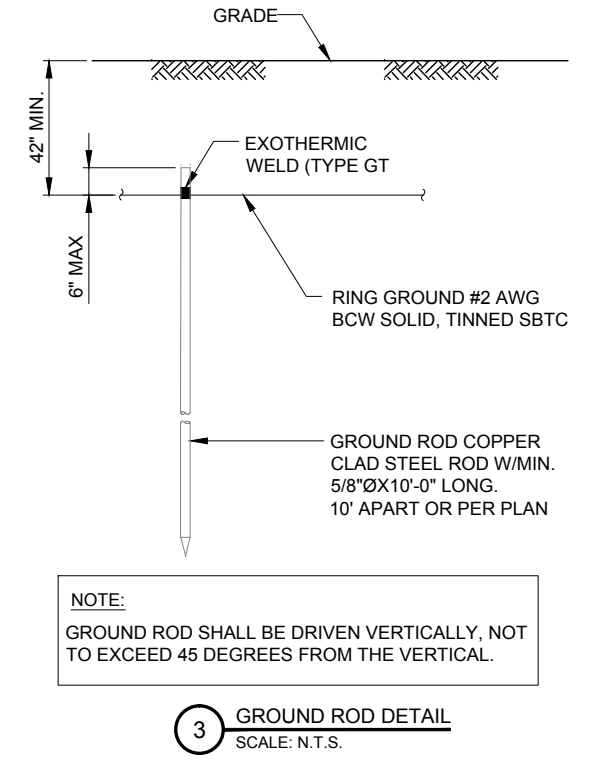
NOTE:
ANTENNA CABLES SHALL BE
GROUNDED AT THE
ANTENNA HEIGHT OF TOWER



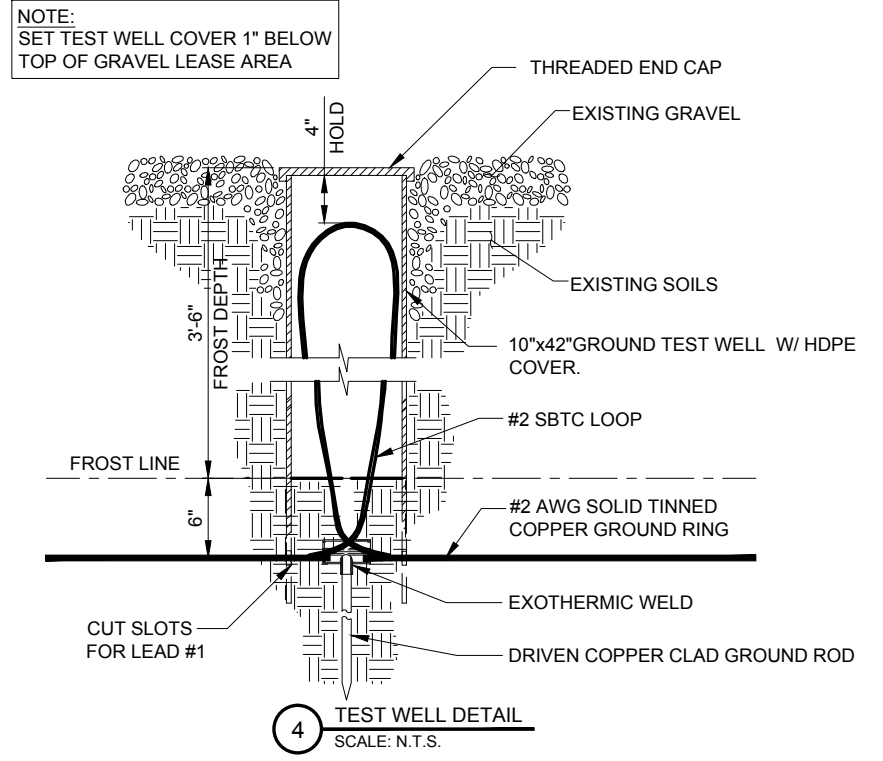
1 TYPICAL SITE GROUNDING DETAIL
SCALE: N.T.S.



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



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



4 TEST WELL DETAIL
SCALE: N.T.S.

NO.	DESCRIPTION	DATE	BY	JTM
1.	ISSUED FOR REVIEW	09/26/15	TJS	JTM
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limited partnership
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PH: 847-698-6400
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ISSUED FOR FINAL: 04/11/16
ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT: 04/01/16

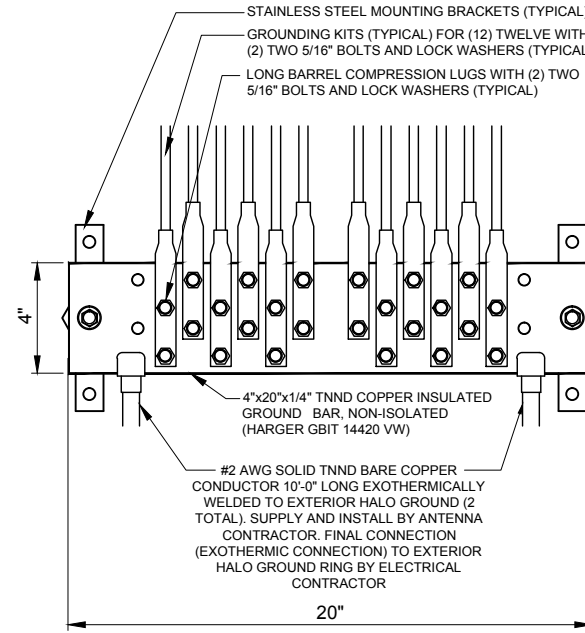
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DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
GROUNDING DETAILS
SHEET NUMBER
E-3

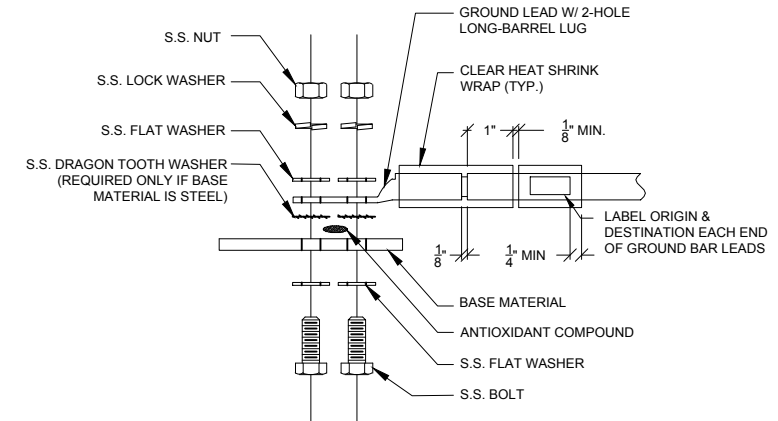
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- AFTER INSTALLATION OF THE CANOPY AT THE DOOR, GC/EC IS TO BOND THE CANOPY TO THE DOOR FRAME WITH A #2 CONDUCTOR. USE DOUBLE-LUG CONNECTION. PREP AND PAINT SURFACE TO MATCH AFTER INSTALLATION.
- UTILITY COMPANY COORDINATION: ELECTRICAL CONTRACTOR SHALL CONFIRM THAT ALL WORK IS IN ACCORDANCE WITH THE RULES OF THE LOCAL UTILITY COMPANY BEFORE SUBMITTING THE BID, THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES SUPPLYING SERVICE TO THIS PROJECT AND SHALL DETERMINE FROM THEM ALL EQUIPMENT AND CHARGES WHICH THEY WILL REQUIRE AND SHALL INCLUDE THE COST IN THE BID.
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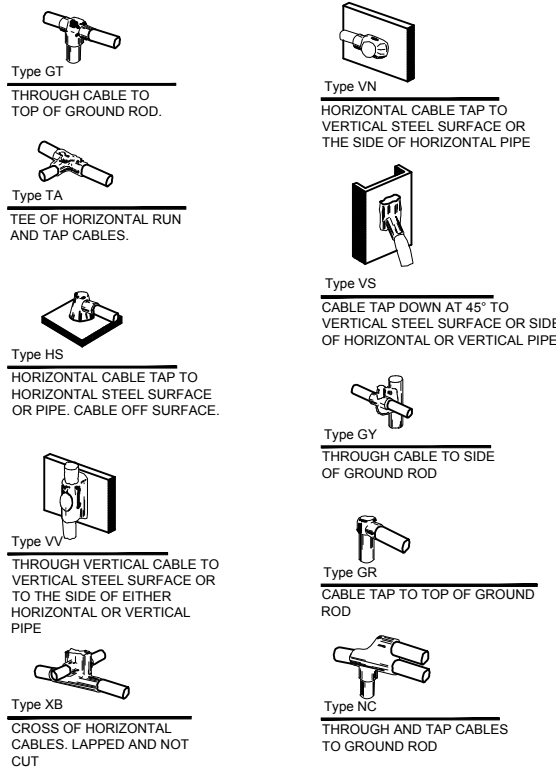


1 EXTERIOR GROUND BAR DETAIL
N.T.S.

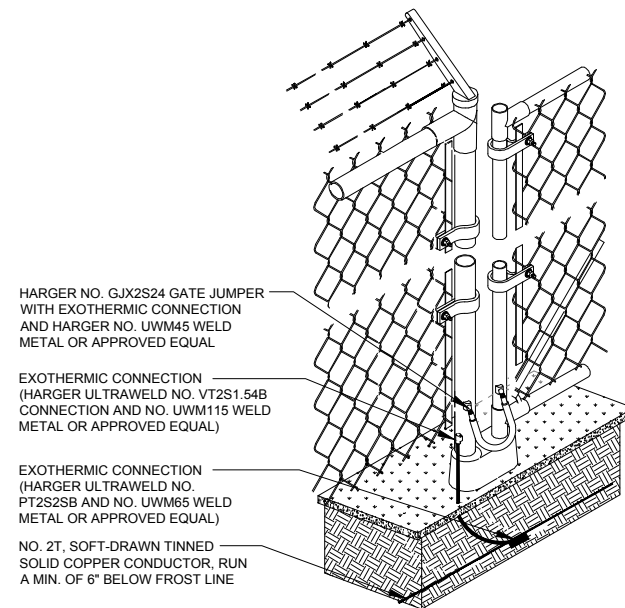
- NOTES:
- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
 - FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
 - GROUND BARS, INSTALL BOLT HEAD TOWARD WALL
 - ENCLOSURES, INSTALL BOLT HEAD ON OUTSIDE OF ENCLOSURE



2 GROUND LUG INSTALLATION DETAIL
N.T.S.



3 EXOTHERMIC WELD DETAILS
EXOTHERMIC AND HARGER ULTRAWELD OR APPROVED EQUAL



4 FENCE GROUNDING DETAIL
N.T.S.

ISSUED FOR FINAL		JTM	JTM
8.	ISSUED FOR FINAL	04/11/16	04/01/16
7.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT		

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PARK RIDGE, IL 60068
PH: 847-698-6400
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LOC. # 313803
N SHERDAN & McGLURE
2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY: TJS
CHECKED BY: TAZ
DATE: 09/26/15
PROJECT #: 33-1966

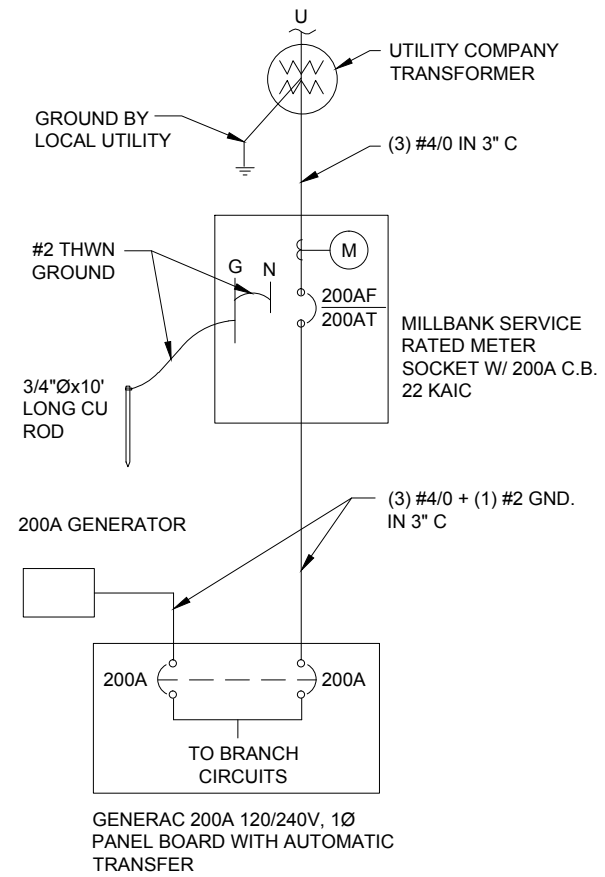
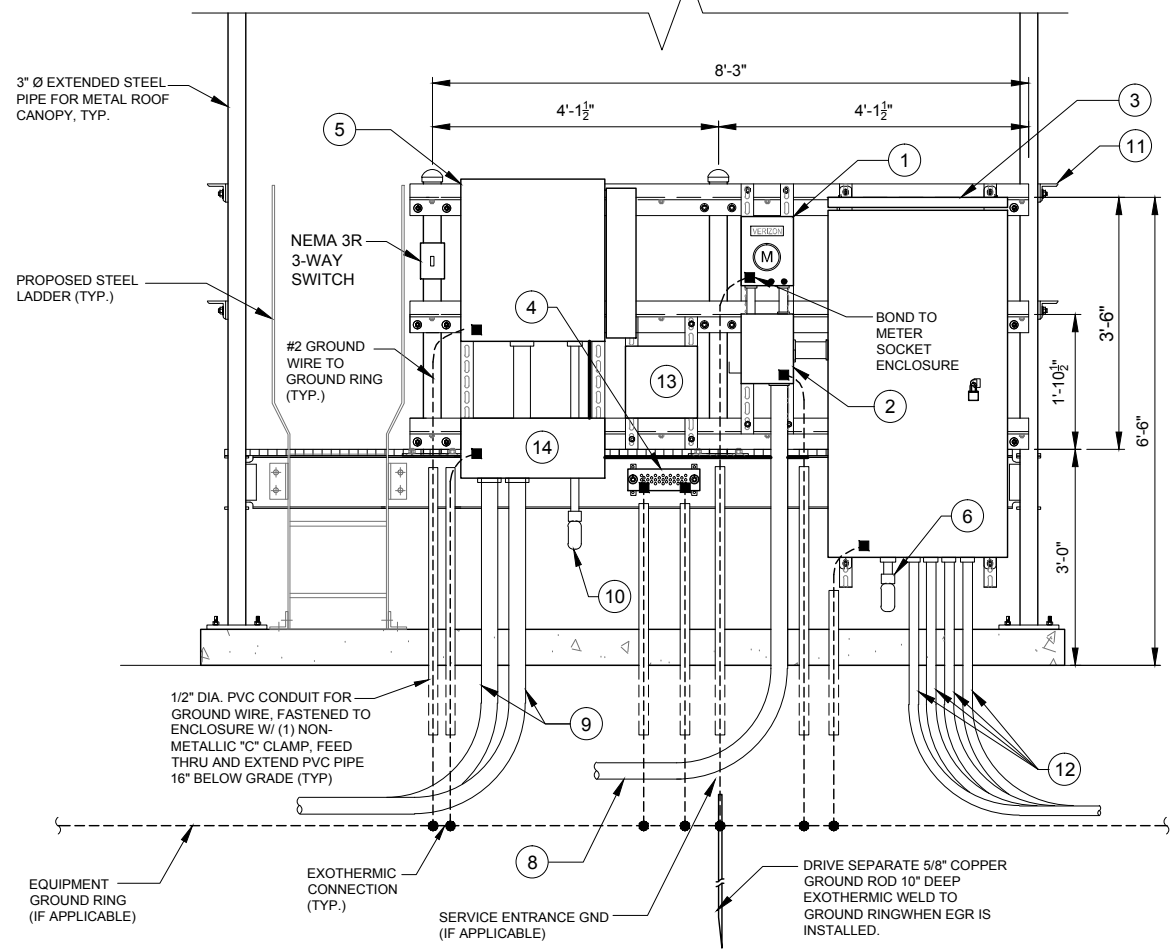
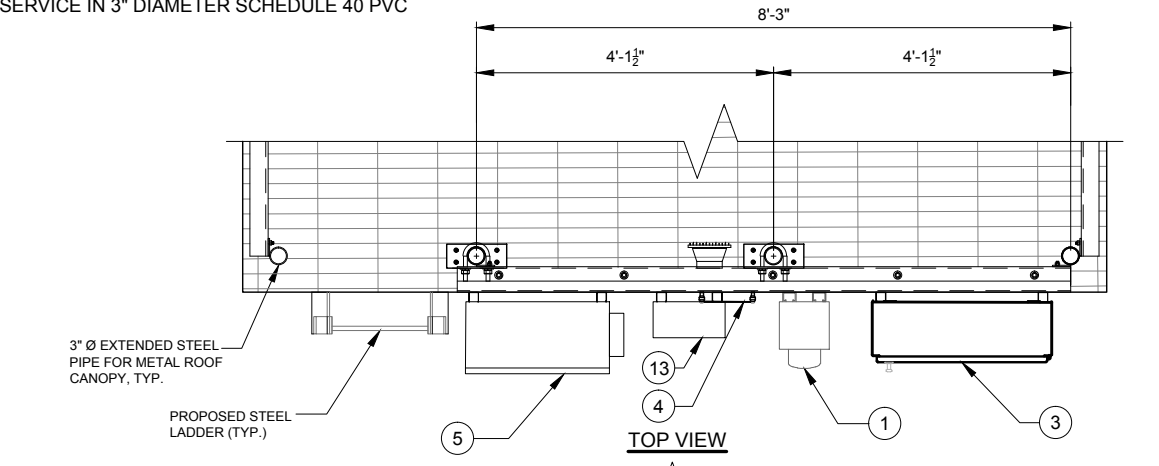
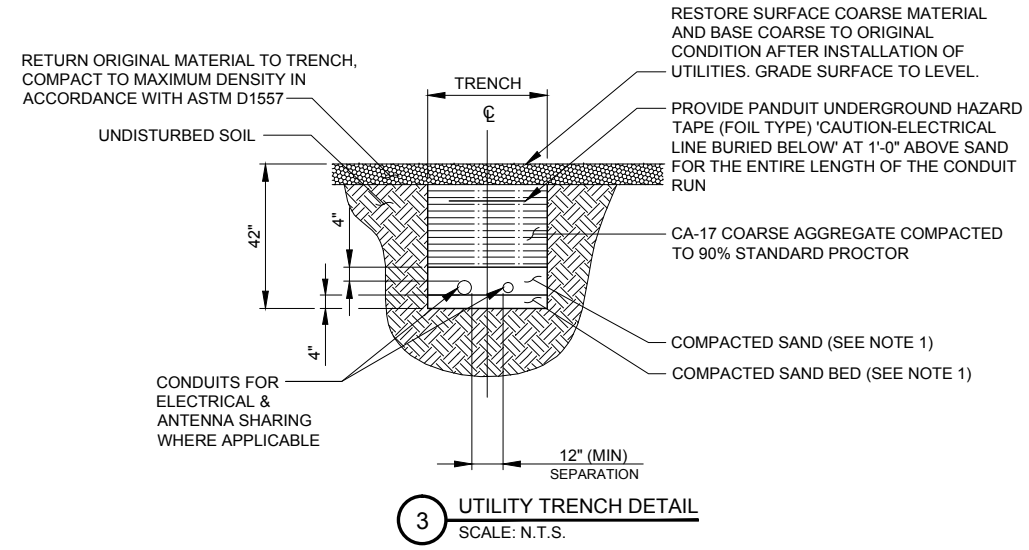
SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-4

- 1 PROPOSED 120/240V 100A SINGLE PHASE METER SOCKET MOUNTED ON NEW UTILITY H-FRAME (METER BY UTILITY COMPANY)
- 2 PROPOSED DISCONNECT
- 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 (3) 4/0 IN 3" DIA. SCH. 40 PVC CONDUIT FROM POWER SOURCE TO METER
- 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



- 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



NO.	DESCRIPTION	DATE	BY	DATE	BY
1.	ISSUED FOR REVIEW	09/26/15	TJS	04/11/16	JTM
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT	04/01/16	JTM
3.	ADDITION OF ANTENN MOUNTS	11/05/15	LS		
4.	ADDITION OF NTC	12/01/15	MAP		
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE		
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM		
7.	REVISED ECR	02/26/16	EW		

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

TERRA
CONSULTING GROUP, LTD.
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PARK RIDGE, IL 60068
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SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-5

GENERAL

THE CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIRMENTS

SECTION 01700 - PROJECT CLOSEOUT

PART 1 - GENERAL

- A. OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES; INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES AND SIMILAR RELEASES.
B. SUBMIT RECORD DRAWINGS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
C. COMPLETE FINAL CLEAN UP REQUIREMENTS, INCLUDING TOUCH-UP PAINTING. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION OF COMPLETION.
A. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS, RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED, TO A SMOOTH EVEN-TEXTURED SURFACE.
B. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE SITE.
C. REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT ENCLOSURE.
D. CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
E. REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT ENCLOSURE, MANHOLES, AND SIMILAR SPACES.
F. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
G. TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT BE SATISFACTORILY REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
H. LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
I. DUST-OFF ALL EQUIPMENT, INCLUDING BATTERY PACKS, WITHIN EQUIPMENT ENCLOSURE.
J. WASH AND WAX FLOOR WITHIN EQUIPMENT ENCLOSURE.

- TOTAL KILL PRODUCT 910 EPA 10292-7
PHASAR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128 (313) 563-8000
AMBUSH HERBICIDE EPA REGISTERED
FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083 (800) 526-4924
B. ROAD AND SITE MATERIALS SHALL CONFORM TO IDOT SPECIFICATIONS FOR FILL MATERIAL (UNLESS OTHERWISE NOTED) - ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS..
C. SOIL STABILIZER FABRIC SHALL BE MIRAFI - 500X.

PART 3 - EXECUTION

- 1. INSPECTIONS LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION.
2. PREPARATION
A. CLEAR TREES, BRUSH AND DEBRIS FROM LEASE AREA, ACCESS DRIVE W/ TURN-AROUND AND UNDER GROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
B. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX INCHES (6") BELOW GRADE.
C. UNLESS OTHERWISE INSTRUCTED BY LESSEE, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
E. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
3. INSTALLATION
A. GRADE OR FILL THE LEASE AREA AND ACCESS DRIVE W/ TURNAROUND AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SPOILS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISHED GRADES, OR INDICATED SLOPES.
B. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
C. BRING THE ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION TO FACILITATE CONSTRUCTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE.
D. AVOID CREATING DEPRESSIONS WHERE WATER MAY POND.
E. THE CONTRACT SHALL INCLUDE GRADING, BANKING, AND DITCHING, UNLESS OTHERWISE INDICATED.
F. WHEN IMPROVING AN EXISTING ACCESS DRIVE, GRADE THE EXISTING DRIVE TO REMOVE ANY ORGANIC MATTER AND SMOOTH THE SURFACE BEFORE PLACING FILL OR STONE.
G. PLACE FILL OR STONE IN SIX INCH (6") MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
H. THE TOP SURFACE COURSE, SHALL EXTEND A MINIMUM OF ONE FOOT (1') BEYOND THE SITE FENCE (UNLESS OTHERWISE NOTED) AND SHALL COVER THE AREA AS INDICATED.
I. APPLY RIPRAP TO THE SIDE SLOPES OF ALL FENCED SITE AREAS, PARKING AREAS, AND ALL OTHER SLOPES GREATER THAN 2:1.
J. APPLY RIPRAP TO THE SIDES OF DITCHES OR DRAINAGE SWALES.
K. RIPRAP ENTIRE DITCH FOR SIX FEET (6") IN ALL DIRECTIONS AT CULVERT OPENINGS.
L. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
M. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS, OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY.
N. IN DITCHES WITH SLOPES GREATER THAN 10%, MOUND DIVERSIONARY HEADWALLS IN THE DITCH AT CULVERT ENTRANCES. POSITION THE HEADWALL AT AN ANGLE NO GREATER THAN 60" OFF THE DITCH LINE. RIPRAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX FEET (6') ABOVE THE CULVERT ENTRANCE.
O. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
P. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
Q. ENSURE GROWTH OF SEEDED AND LANDSCAPED AREAS, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

- 4. SUBMITTALS
A. MANUFACTURER'S DESCRIPTIVE LITERATURE.
B. CERTIFICATE OR STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS.

PART 2 - PRODUCTS

- 1. FENCE MATERIAL
A. ALL FABRIC WIRE, RAILS, HARDWARE, AND OTHER STEEL MATERIALS SHALL BE HOT-DIPPED GALVANIZED.
B. FABRIC SHALL BE SEVEN-FOOT (7') HIGH OR TO MATCH EXISTING FENCE TWO-INCH CHAIN LINK MESH OF NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A-392 CLASS 1.
C. BARBED WIRE SHALL BE DOUBLE-STRAND, 12-1/2 GAUGE TWISTED WIRE, WITH 14-GAUGE, 4-POINT ROUND BARBS SPACED ON FIVE-INCH CENTERS.
D. ALL POSTS SHALL BE SCHEDULE - 40 MECHANICAL SERVICE PIPE AND SHALL BE TYPE 1 ASTM A-128 AND OF THE FOLLOWING DIAMETER
E. GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
F. ALL TOP AND BRACE RAILS SHALL BE 1/2 DIAMETER SCHEDULE - 40 MECHANICAL-SERVICE PIPE.
G. GATE FRAMES AND BRACES SHALL BE 1.90 INCH DIAMETER SCHEDULE 40 MECHANICAL-SERVICE PIPE. FRAMES SHALL HAVE WELDED CORNERS.
H. GATE FRAMES SHALL HAVE A FULL-HEIGHT VERTICAL BRACE, AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
I. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 188-DEGREE ATTACHMENT.
J. THE GUIDE (LATCH ASSEMBLY) SHALL BE HEAVY INDUSTRIAL DOUBLE GATE LATCH. SEE DETAIL.
K. LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES.
L. PLUNGER ROD COMPLETE WITH RECEPTOR TO BE PROVIDED AT THE INACTIVE LEAF OF ALL DOUBLE GATE INSTALLATIONS.
M. ALL STOPS SHALL HAVE KEEPERS CAPABLE OF HOLDING THE GATE LEAF IN THE OPEN POSITION
N. A NO. 7 GAUGE ZINC COATED TENSION WIRE SHALL BE USED AT THE BOTTOM OF THE FABRIC, TERMINATED WITH BAND CLIPS AT CORNER AND GATE POSTS.
O. A SIX-INCH BY 1/2-INCH DIAMETER EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
P. STRETCHER BARS SHALL BE 3/16-INCH BY 3/4-INCH OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
Q. ALL CORNER GATE AND PANELS SHALL HAVE A 3/8-INCH TRUSS ROD WITH TURNBUCKLES.
R. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM. GATE POSTS SHALL HAVE A DOME CAP.
S. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO TIE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
T. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
U. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
V. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
W. WHERE THE USE OF CONCERTINA HAS BEEN SPECIFIED, 24-INCH DIAMETERS COIL BARBED TAPE, STAINLESS STEEL, CYCLONE FENCE MODEL G8P TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX(6) WIRE BARBED WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST.

PART 3 - EXECUTION

- 1. INSPECTION TO CONFIRM PROPER DEPTH AND DIAMETER OF POST HOLE EXCAVATIONS. ALL POST HOLES WILL BE EXCAVATED AS PER CONSTRUCTION DOCUMENTS.
2. INSTALLATION
A. FOUNDATIONS SHALL HAVE A MINIMUM SIX INCH (6") CONCRETE COVER UNDER POST.
B. ALL FENCE POSTS SHALL BE VERTICALLY PLUMB ; ONE QUARTER INCH (1/4")
C. AT CORNER POSTS, GATE POSTS, AND SIDES OF GATE FRAME, FABRIC SHALL BE ATTACHED WITH STRETCHER AND TENSION BAND-CLIPS AT FIFTEEN(15) INCH INTERVALS.
D. AT LINE POSTS, FABRIC SHALL BE ATTACHED WITH BAND-CLIPS AT FIFTEEN INCH (15") INTERVALS.
E. FABRIC SHALL BE ATTACHED TO BRACE RAILS, TENSION WIRE AND TRUSS RODS WITH TIE-CLIPS AT TWO FOOT (2') INTERVALS.
F. A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN TIE CHAIN LINE FABRIC AND THE FINAL GRADE.
G. GATE SHALL BE INSTALLED SO LOCKS ARE ACCESSIBLE FROM BOTH SIDES.
H. GATE HINGE BOLTS SHALL HAVE THEIR THREADS PEENED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.
I. CONCRETE TO BE A MINIMUM OF 4,000 PSI AT 7 DAYS. CEMENT SHALL EXCEED ASTM C150, TYPE IIA.

SECTION 02830 - FENCING AND GATE(S)

PART 1 - GENERAL

- 1. WORK INCLUDED SEE PLAN FOR SITE AND LOCATION OF FENCE AND GATE(S).
2. QUALITY ASSURANCE ALL STEEL MATERIALS UTILIZED IN CONJUNCTION WITH THIS SPECIFICATION WILL BE GALVANIZED OR STAINLESS STEEL. WEIGHT OF ZINC COATING ON THE FABRIC SHALL NOT BE LESS THAN 12 OUNCES PER SQUARE FOOT OF MATERIAL COVERED. POSTS SHALL BE HOT-DIPPED IN GRADE "E" ZINC, 18 OUNCES PER SQUARE FOOT.
3. SEQUENCING IF THE SITE AREA HAS BEEN BROUGHT UP TO SURFACE COURSE ELEVATION (PRIOR TO THE FENCE CONSTRUCTION), FENCE POST EXCAVATION SPOILS MUST BE CONTROLLED TO PRECLUDE CONTAMINATION OF SAID SURFACE COURSE.

- ASTM-A120 SPECIFICATION FOR PIPE, STEEL BLACK AND HOT-DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY USES.
ASTM-A123 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS.
ASTM-A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.
ASTM-A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE FABRIC.
ASTM-A491 SPECIFICATION FOR ALUMINUM-COATED STEEL CHAIN LINK FENCE FABRIC
ASTM-A525 STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED (GALVANIZED) BY THE HOT-DIPPED PROCESS.

- ASTM-A570 SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND STRIP. STRUCTURAL QUALITY.
ASTM-A535 SPECIFICATION FOR ALUMINUM COATED STEEL BARBED WIRE.
FEDERAL SPECIFICATION RR-F-191- FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

DIVISION 3: CONCRETE

SECTION 03000 - BASIC CONCRETE MATERIALS AND METHODS

PART 1 - GENERAL

- 1. WORK INCLUDED FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND CURING.
2. INSPECTIONS
A. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS REQUIRED FOR HIS SCOPE OF WORK.
B. ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE LESSEE'S CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
C. THE LESSEE'S CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.
QUALITY ASSURANCE
3. A. CONSTRUCT AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH ACI 301 AND ACI 318.
B. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ASTM A184.
C. PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 117-90.
D. OPEN FOUNDATION TRENCHES SHALL BE INSPECTED BY MES PRIOR TO CONCRETE INSTALLATION.
4. SUBMITTALS SUBMIT CONCRETE MIX AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY LESSEE CONSTRUCTION MANAGER/ENGINEER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE MIX DESIGN INFORMATION SHEETS AND TWO (2) BLUELINE DRAWINGS FOR REINFORCING STEEL.

PART 2 - PRODUCTS

- 1. REINFORCEMENT MATERIALS
A. REINFORCEMENT STEEL, ASTM A615, 60 ksi YIELD GRADE, DEFORMED BILLET STEEL BARS, PLAIN FINISH.
B. WELDED STEEL WIRE FABRIC ASTM A185 PLAIN TYPE, IN FLAT SHEETS, PLAIN FINISH.
C. CHAIRS: BOLSTERS, BAR SUPPORTS, SPACERS. SIZED AND SHAPED FOR SUPPORTS OF REINFORCING.
D. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 315, ACI 318, ASTM A184
2. CONCRETE MATERIALS
A. CEMENT: ASTM C150, PORTLAND TYPE
B. FINE AND COURSE AGGREGATES: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ; ONE INCH (1") SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR ONE-THIRD (1/3) CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
C. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE
D. AIR ENTRAINING ADMIXTURE: ASTM C260
E. BONDING AGENT: LATEX EMULSION FOR BONDING NEW TO OLD CONCRETE AS MANUFACTURED BY DAYTON SUPERIOR.
F. NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICISING AGENTS.
3. CONCRETE MIX
A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
B. MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, ALT. 3.
C. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. PROVIDE CONCRETE AS FOLLOWS:
1. COMPRESSIVE STRENGTH: 4000 psi AT 7 DAYS.
SEE SHEET S-1 FOR CAISSON CONCRETE COMPRESSIVE STRENGTH
2. SLUMP: 3 INCHES

PART 3 - EXECUTION

- 1. INSERTS, EMBEDDED COMPONENTS AND OPENINGS
A. THE CONTRACTOR SHALL COORDINATE AND CROSS-CHECK ARCHITECTURAL, BUILDING & ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THE PROPER LOCATION BEFORE PLACING CONCRETE.
B. PROVIDE FORMED OPENINGS WHERE REQUIRED FOR WORK TO BE EMBEDDED IN AND PASSING THROUGH CONCRETE MEMBERS.
C. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENING, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS, ANCHORS, AND OTHER INSERTS.
D. INSTALL CONCRETE ACCESSORIES STRAIGHT, LEVEL AND PLUMB.
2. REINFORCEMENT PLACEMENT
A. PLACE REINFORCEMENT, SUPPORTED AND SECURED AGAINST DISPLACEMENT.
B. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATINGS.
C. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
D. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE THREE INCHES (3") UNLESS OTHERWISE NOTED.
E. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED THREE INCHES (3") NOR BE LESS THAN TWO INCHES (2").
3. PLACING CONCRETE
A. VIBRATE ALL CONCRETE.
B. ALL CONCRETE WORK SHALL ADHERE TO THE LATEST A.C.I. STANDARDS FOR WINTER POURING AND CURING PROCEDURES IF SEASONAL CONDITIONS APPLY
4. CURING
A. AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING.
B. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
5. PROVIDE HAND RUBBED SMOOTH FINISH TO ALL EXPOSED VERTICAL FORMED CONCRETE SURFACES.
6. FIELD QUALITY CONTROL
A. SUBMIT THREE (3) CONCRETE TEST CYLINDERS - TAKEN FOR EVERY 15 CUBIC YARD OR LESS. SUBMIT CONCRETE TESTS TO THE PROJECT MANAGER IN ACCORDANCE WITH ASTM , C-31 AND C-39.
B. SUBMIT ONE (1) ADDITIONAL TEST CYLINDER - TAKEN DURING COLD WEATHER POURS, AND CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS.
C. SUBMIT ONE (1) SLUMP TEST - TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
7. DEFECTIVE CONCRETE MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED LINES, DETAILS OR ELEVATIONS AT COST OF GC, AS DIRECTED BY ARCHITECT/ENGINEER.

DIVISION 2: SITE WORK

SECTION 02200 - EARTHWORK AND DRAINAGE

PART 1 - GENERAL

- 1. WORK INCLUDED: SEE SITE PLAN.
2. DESCRIPTIONS ACCESS DRIVE W/ TURNAROUND AREA, LEASE AREA, AND IF APPLICABLE UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.
3. QUALITY ASSURANCE
A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED).
C. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
4. SEQUENCING
A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.
B. COMPLETELY GRUB THE ACCESS DRIVE W/ TURNAROUND, UNDERGROUND UTILITY EASEMENTS (IF APPLICABLE) AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION, PLACEMENT OF BACKFILL AND SUB-BASE MATERIAL.
C. CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG ACCESS DRIVE.
D. BRING THE LEASE AREA AND ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION PRIOR TO INSTALLING FOUNDATION.
E. APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.
F. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.
G. REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY PROJECT MANAGER.
H. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.
5. SUBMITTALS
A. BEFORE CONSTRUCTION IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD (REFER TO PLANS FOR LANDSCAPING REQUIREMENTS).
B. AFTER CONSTRUCTION
1. MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZER.
2. MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER
3. LANDSCAPING WARRANTY STATEMENT.

PART 2 - PRODUCTS

- 1. MATERIALS
A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:
2. WARRANTY
A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
B. SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE ROAD AND SITE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION.
C. DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO FINAL INSPECTION.
D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

Table with columns: DATE, DESCRIPTION, ISSUED FOR FINAL, ISSUED PER VILLAGE COMMENTS/ISSUED FOR PERMIT, JTM, DATE, BY, TJS, MT, LS, MAP, BTE, JTM, EW. Includes revision history for permit updates.

REVISIONS

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST. PEORIA, IL 61604

Table with columns: DRAWN BY: TJS, CHECKED BY: TAZ, DATE: 09/26/15, PROJECT #: 33-1966

SHEET TITLE SPECIFICATIONS

SHEET NUMBER SP-1

CHICAGO SMSA limited partnership db/a VERIZON WIRELESS



DIVISION 5: METALS

SECTION 16400 - SERVICE AND DISTRIBUTION

SECTION 05000 - METALS

PART 1 - GENERAL

- SECTION INCLUDES: STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS AND GROUTING UNDER BASE PLATES.
- SUBMITTALS: SHOP DRAWINGS: INDICATE SIZES, SPACING, AND LOCATIONS OF STRUCTURAL MEMBERS, OPENINGS, CONNECTIONS, CAMBERS, LOADS, AND WELDED SECTIONS.
- QUALITY ASSURANCE
 - FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
 - PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE.

PART 2 - PRODUCTS

- MATERIALS:
 - STRUCTURAL STEEL MEMBERS: ASTM A572, GRADE 50
 - STRUCTURAL TUBING: ASTM A500, GRADE B
 - PIPE: ASTM A53, TYPE E OR S, GRADE B
 - BOLTS, NUTS, AND WASHERS: ASTM A325
 - ANCHOR BOLTS: ASTM A307
 - WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING WELDED
 - GROUT: NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS.
 - SHOP AND TOUCH-UP PRIMER: SSPC 15, TYPE 1, RED OXIDE
 - TOUCH-UP PRIMER FOR GALV. SURFACES: ZINC RICH TYPE
- FABRICATION: CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH.
- FINISH:
 - PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURES.
 - STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.

PART 3 - EXECUTION

- EXAMINATION AND PREPARATION: VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE.
- ERECTION:
 - ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDGING AND BRACING.
 - FIELD WELD COMPONENTS INDICATED ON SHOP DRAWINGS.
 - DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.
 - AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH TOUCH-UP PRIMERS AS SPECIFIED UNDER SECTION 05000 - METALS, PART 2 - PRODUCTS, H & I. SURFACES TO BE IN CONTACT WITH CONCRETE NOT INCLUDED.
- FIELD QUALITY CONTROL: FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND TORQUING.

DIVISION 16: ELECTRICAL

SECTION 16050 - BASIC ELECTRICAL MATERIALS AND METHODS

- CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE ELECTRICAL EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
- ELECTRICAL PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "U" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
- ALL CONDUIT SHALL HAVE A PULL CORD.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY UBC, NEC AND ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE SIERRA #WPD-8 LIFT COVERPLATES.

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 600V, TYPE THHN OR THWN, WITH A MIN. SIZE OF #12 AWG, COLOR CODED. ALL RECTIFIER DROPS SHALL BE STRANDED TO ACCEPT CRIMP CONNECTORS.
 - ALL CHEMICAL GROUND RODS SHALL BE "UL" APPROVED.
 - METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
 - CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH GALVANIZED ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTING SHALL BE GLAND RING COMPRESSION TYPE.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. ALL FLEXIBLE CONDUITS SHALL HAVE FULL LENGTH GROUND WIRE.
 - ALL UNDERGROUND CONDUIT SHALL BE AS NOTED ON THE DRAWINGS AT A MINIMUM DEPTH OF 42" BELOW GRADE. IT IS REQUIRED AND WILL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO NOTIFY J.U.L.I.E. AT 1-800-892-0123 OR OTHER SUCH NOTIFYING AGENCY FORTY-EIGHT (48) HOURS PRIOR TO DIGGING.
 - CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
 - ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MINIMUM LETTER HEIGHT SHALL BE ONE FORTH INCH (1/4"). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS, NOT ADHESIVE.
 - UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS BY AN INDEPENDENT TESTING SERVICE ENGAGED BY THE CONTRACTOR SHALL BE SUBMITTED FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
 - GROUNDING ELECTRODE SYSTEM
 - PREPARATION
 - SURFACE PREPARATION: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED 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.
 - GROUND BAR PREPARATION: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT APPLIED. NO FINGERPRINTS OR DISCOLORED COPPER WILL BE PERMITTED.
 - SLEEVES: ALL GROUNDING CONDUCTORS SHALL RUN THROUGH PVC SLEEVES WHEREVER CONDUCTORS RUN THROUGH WALLS, FLOORS OR CEILINGS. IF CONDUCTORS MUST RUN THROUGH EMT, BOTH ENDS OF CONDUIT SHALL BE GROUNDED. SEAL BOTH ENDS OF CONDUIT WITH SILICONE CAULK.
 - GROUND BARS
 - ALL GROUND BARS SHALL BE ONE FORTH INCH (1/4") THICK TINNED COPPER PLATE AND OF SIZE INDICATED ON DRAWINGS.
 - ALL CONNECTIONS TO THE GROUND BAR SHALL OBSERVE THE FOLLOWING SEQUENCE:
 - BOLT-HEAD
 - 2-HOLE LUG
 - TINNED COPPER BUSS BAR
 - STAR WASHER
 - NUT
 - EXTERNAL CONNECTIONS
 - ALL BURIED GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS. CONNECTIONS SHALL INCLUDE ALL CABLE TO CABLE, SPLICES, TEE'S, CROSSES, ETC. ALL CABLE TO GROUND RODS, GROUND ROD SPLICES AND LIGHTNING PROTECTION SYSTEMS ARE TO BE AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METAL, TOOLS, ETC.) SHALL BE BY "CADWELD" AND INSTALLED PER MANUFACTURER'S RECOMMENDED PROCEDURES.
 - ALL ABOVE GRADE GROUNDING AND BONDING CONDUCTORS SHALL BE CONNECTED BY TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTIONS (EXCEPT FOR THE ACEG AND GROUND ROD) MECHANICAL CONNECTIONS, FITTINGS OR CONNECTIONS THAT DEPEND SOLELY ON SOLDER SHALL NOT BE USED. ALL CABLE TO CABLE CONNECTIONS SHALL BE HIGH PRESSURE DOUBLE CRIMP TYPE CONNECTIONS. CONNECTIONS TO STRUCTURAL STEEL SHALL BE EXOTHERMIC WELDS.
 - GROUND RODS
 - ALL GROUND RODS SHALL BE 5/8-INCH DIAMETER X 10'-0" LONG "COPPERWELD" OR APPROVED EQUAL, OF THE NUMBER AND LOCATIONS INDICATED. GROUND RODS SHALL BE DRIVEN FULL LENGTH VERTICAL IN UNDISTURBED EARTH.
 - GROUND CONDUCTORS
 - ALL GROUND CONDUCTORS SHALL BE STANDARD TINNED SOLID BARE COPPER ANNEALED, AND OF SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.
 - LUGS
 - LUGS SHALL BE 2-HOLE, LONG BARREL, STRAND COPPER UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS. LUGS SHALL BE THOMAS AND BETTS SERIES #548__BE OR EQUIVALENT

A.	535 MCM DLO	54880BE
B.	262 MCM DLO	54872BE
C.	#1/0 DLO	54862BE
D.	#4/0 THWN AND BARE	54866BE
E.	#2/0 THWN	54862BE
F.	#2 THHN	54207BE
G.	#6 DLO	54205BE
- WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

	<u>GROUNDING CONDUCTOR SIZE</u>	<u>MINIMUM BENDING RADIUS TO INSIDE EDGE</u>
	NO. 6 AWG TO NO. 4 AWG	6 INCHES
	NO. 2 AWG TO NO. 1/0 AWG	8 INCHES
	NO. 2/0 AWG TO 4/0 MCM	12 INCHES
	250 MCM TO 750 MCM	24 INCHES
- GROUND RING
 - THE EXTERNAL GROUND RING ENCIrcLING THE TOWER (IF APPLICABLE) AND BETWEEN THE EQUIPMENT SHELTER PLATFORM ANCHORS SHALL BE MINIMUM NO. 2 A.W.G. SOLID TINNED BARE COPPER CONDUCTOR IN DIRECT CONTACT WITH THE EARTH AT THE DEPTH INDICATED ON THE DRAWINGS. CONDUCTOR BENDS SHALL HAVE A MINIMUM BENDING RADIUS OF EIGHT INCHES (8").
 - ALL EXTERNAL GROUND RINGS ARE TO BE JOINED TOGETHER AND ALL CONNECTIONS MUST BE CADWELDED. NO LUGS OR CLAMPS WILL BE ACCEPTED.
- FENCE/GATE

GROUND EACH GATE POST, CORNER POST AND GATE AS INDICATED ON DRAWING GROUND CONNECTIONS TO FENCE POSTS AND ALL OTHER CONNECTIONS FOR THE GROUND GRID SYSTEM SHALL BE MADE BY EXOTHERMIC WELD PROCESS, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES, AND SPRAYED WITH COLD-GALVANIZED PAINT.
- I.E.E.E. FALL POTENTIAL TESTS
 - FOR RAW LAND SITE
 - GROUND TESTS SHALL BE PERFORMED AS INDICATED ON DRAWINGS. A BIDDLE GROUND OHMER OR THE METHOD OF USING TWO AUXILIARY GROUND RODS (AS DESCRIBED IN I.E.E.E. STANDARDS NO. 81-1983, PART 1) MAY BE USED. THE I.E.E.E. METHOD REQUIRES THE USE OF AN A.C. TEST CURRENT. THE AUXILIARY TEST RODS MUST BE SUFFICIENTLY FAR AWAY FROM THE ROD UNDER TEST SO THAT THE REGIONS IN WHICH THEIR RESISTANCE IS LOCALIZED DO NOT OVERLAP. THE TEST POINT WILL BE ON THE GROUND ROD AND WILL CONSIST OF THE THREE POINT FALL OF POTENTIAL MEGGER TEST METHOD, USING THE BIDDLE NULL-BALANCE EARTH TESTER (MEGGER #250220-2 OR EQUIVALENT)
 - CONTRACTOR TO CONDUCT GROUND RESISTANCE TEST IN THE FORMAT AS FOLLOWS:
 - FIRST TEST - SHALL BE WITH FOUR GROUND RODS INSTALLED, ONE AT EACH CORNER OF THE PAD BUT NOT CONNECTED TO THE MAIN GROUNDING BUS. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL FOUR GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL FOUR RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
 - SECOND TEST - SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS. THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.
 - TOWER
 - FIRST TEST - SHALL BE WITH THREE GROUND RODS INSTALLED (MINIMUM), EQUALLY SPACED AROUND THE TOWER FOUNDATION, BUT NOT CONNECTED TO THE SHELTER PAD EXTERNAL GROUND RING. FURNISH WIRE TO CONNECT (TEMPORARY CLAMP) ALL THREE GROUND RODS TOGETHER TO MAKE A SYSTEM TEST AFTER EACH ROD IS INDIVIDUALLY TESTED. IF ANY INDIVIDUAL ROD TESTS 25 OHMS OR MORE, NOTIFY THE CONTRACTOR AND OWNER'S REPRESENTATIVE SO THAT THE ROD CAN BE DRIVEN DEEPER UNTIL ALL THREE (3) RODS HAVE A RESISTANCE OF 10 OHMS OR LESS ON A DRY DAY.
 - SECOND TEST - SHALL BE WITH THE GROUND RODS CONNECTED, WITH DRY SOIL AND WHEN NO STANDING WATER HAS BEEN PRESENT FOR THE PAST TEN (10) DAYS, THE MAXIMUM ALLOWABLE READING IS 5 OHMS TO GROUND. IF THE RESISTANCE OF THE ENTIRE SYSTEM EXCEEDS 5 OHMS THE ELECTRICAL CONTRACTOR AND OWNER'S REPRESENTATIVE SHOULD BE NOTIFIED SO THAT EITHER ADDITIONAL AND/OR DEEPER RODS CAN BE INSTALLED.
 - EQUIPMENT PAD AND TOWER
 - AFTER THE EQUIPMENT PAD AND TOWER GROUND RESISTANCE TEST IS COMPLETED, CONTRACTOR SHALL TIE EQUIPMENT PAD EXTERNAL GROUND RING AND TOWER EXTERNAL GROUND RING TOGETHER. AFTER FIRST AND SECOND TEST ALL CONNECTIONS MUST BE MADE USING EXOTHERMIC WELD. NO LUGS OR CLAMPS WILL BE ACCEPTED.
 - AFTER ALL THE EXTERNAL GROUND RINGS ARE TIED TOGETHER, COMPLETE A MEGGER CHECK OF THE GROUND SYSTEM SHOULD BE DONE. THE MAXIMUM ALLOWABLE LEADING IS 5 OHMS TO GROUND.
- GROUNDING RESISTANCE TEST REPORT

UPON COMPLETION OF THE TESTING FOR EACH SITE, A TEST REPORT SHOWING RESISTANCE IN OHMS WITH AUXILIARY POTENTIAL ELECTRODES AT 5 FEET AND 10 FEET INTERVALS UNTIL THE AVERAGE RESISTANCE STARTS INCREASING AND ALSO NOTE THAT 10-15 PHOTOS MUST BE TAKEN TO PROOF ENTIRE EXTERNAL GROUND RING SYSTEM BEFORE BACKFILL. TWO (2) SETS OF TEST DOCUMENTS ARE OF THE INDEPENDENT TESTING SERVICE TO BE BOUND AND SUBMITTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

SECTION 16503 - POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF SUPPORTING TOWERS)

- GENERAL
 - LIGHTNING ROD AND EXTENSION PIPE INCLUDING ALL APPURTENANCES, TO BE FURNISHED BY OWNER, IF REQUIRED.
 - PROVIDE TEMPORARY LIGHTING FOR TOWER AS PER FAA REGULATIONS DURING CONSTRUCTION, IF REQUIRED.
 - GROUNDING:

GROUND TOWER WITH A MINIMUM OF #2 AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE. TWO (2) GROUNDING LEADS PER TOWER BASE PLATE.

NO EXOTHERMIC WELDS SHALL BE ATTACHED DIRECTLY TO THE MONOPOLE TOWER SHAFT.
- MATERIALS:
 - COAXIAL CABLE:
 - INSTALL COAXIAL CABLE AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS WITH COAXIAL CABLES SUPPORTED AT NO MORE THAN 3'-0" O.C. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURERS' REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE FEET (3') IN EXCESS OF EQUIPMENT LOCATION UNLESS OTHERWISE STATED.
 - ALL COAX RUN LENGTHS GREATER THAN 175 FEET SHALL BE 1-5/8", ALL COAX. RUN LENGTH BETWEEN 101 FEET AND 174 FEET SHALL BE 1-1/2" AND IN LENGTH LESS THAN OR EQUAL TO 100 FEET SHALL BE 7/8".
 - ANTENNA AND COAXIAL CABLE GROUNDING
 - ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)
 - COAXIAL CABLE IDENTIFICATION
 - TO PROVIDE EASY IDENTIFICATION AND UNIFORM MARKING OF ANTENNA CABLING, PLASTIC TAGS SHALL BE USED AT THE FOLLOWING LOCATIONS:
 - FIRST LOCATION IS AT THE END OF THE COAX NEAREST THE ANTENNA (WHERE THE COAXIAL CABLE AND JUMPER ARE CONNECTED).
 - SECOND LOCATION IS INSIDE THE EQUIPMENT SHELTER NEAR THE WAVEGUIDE ENTRY PORT.
 - USE ANDREW CABLE TIES (PT.# 27290) TO SECURE IDENTIFICATION TAGS.
- TESTING

LESSEE SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM THE COAXIAL SWEEP TEST & REPORT. THE CONTRACTOR IS TO PROVIDE ONE CLIMBER / QUALIFIED PERSONNEL TO ASSIST IN ANY REPAIRS AND WEATHERPROOFING ONCE THE TEST IS COMPLETE. THE CONTRACTOR IS TO PROVIDE LESSEE WITH A MINIMUM OF 48 HOURS NOTICE PRIOR TO THE TIME OF THE SWEEP TEST.

SECTION 16745 - TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

- GENERAL
 - ALL MATERIALS, PRODUCTS OR PROCEDURES INCORPORATED INTO WORK SHALL BE NEW AND OF STANDARD COMMERCIAL QUALITY.
 - CERTAIN MATERIALS AND PRODUCTS WILL BE SUPPLIED BY THE OWNER (REFER TO GENERAL CONDITIONS FOR THE LIST OF OWNER FURNISHED EQUIPMENT, MATERIALS AND SUPPLIES FOR THESE ITEMS). THE CONTRACTOR IS RESPONSIBLE FOR PICKUP AND DELIVERY OF ALL SUCH MATERIALS
 - ALL OTHER MATERIALS AND PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS SHALL BE SUPPLIED BY THE CONTRACTOR.

8.	ISSUED FOR FINISH	JTM
7.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	JTM

REVISONS		DATE	BY
NO.	DESCRIPTION	09/26/15	TJS
1.	ISSUED PER FIBER COORDINATION	10/20/15	MT
2.	ADDITION OF ANTENNA MOUNTS	11/05/15	LS
3.	ADDITION OF NTC	12/01/15	MAP
4.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
5.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
6.	REVISED ECR	02/26/16	EW

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DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
SPECIFICATIONS

SHEET NUMBER
SP-2



1 EXISTING PENTHOUSE
SCALE: N.T.S.



2 EXISTING TRANSFORMERS
SCALE: N.T.S.



3 EXISTING SOUTH VIEW OF BUILDING
SCALE: N.T.S.



4 EXISTING EAST VIEW OF BUILDING
SCALE: N.T.S.

8.	ISSUED FOR FINAL	04/11/16	JTM
7.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM

REVISIONS		DATE	BY
NO.	DESCRIPTION		
1.	ISSUED FOR REVIEW	09/26/15	TJS
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT
3.	ADDITION OF ANTENN MOUNTS	11/05/15	LS
4.	ADDITION OF NTC	12/01/15	MAP
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
	REVISED ECR	02/26/16	EW

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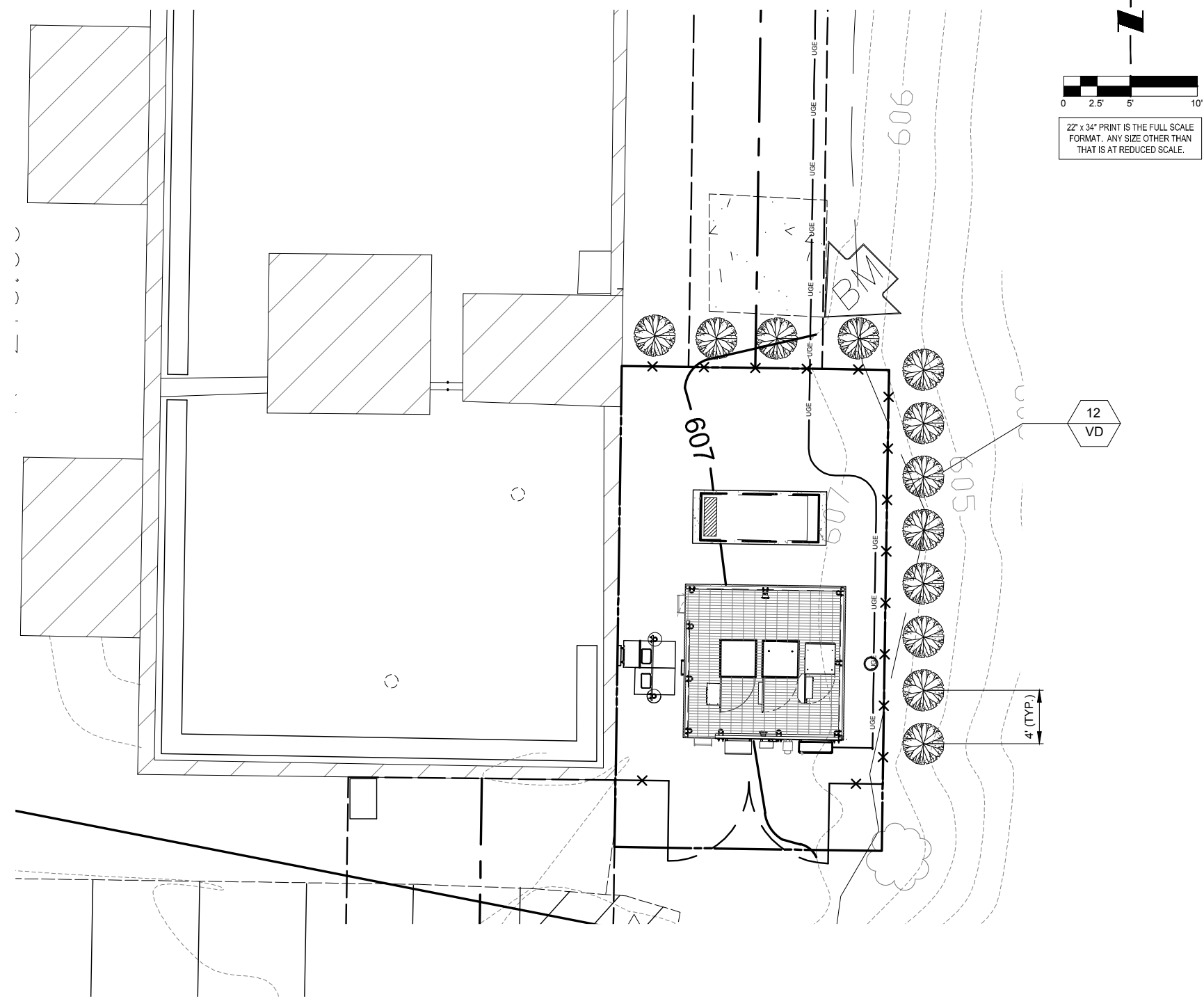
DRAWN BY:	TJS
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PROJECT #:	33-1966

SHEET TITLE
EXISTING SITE PHOTOS

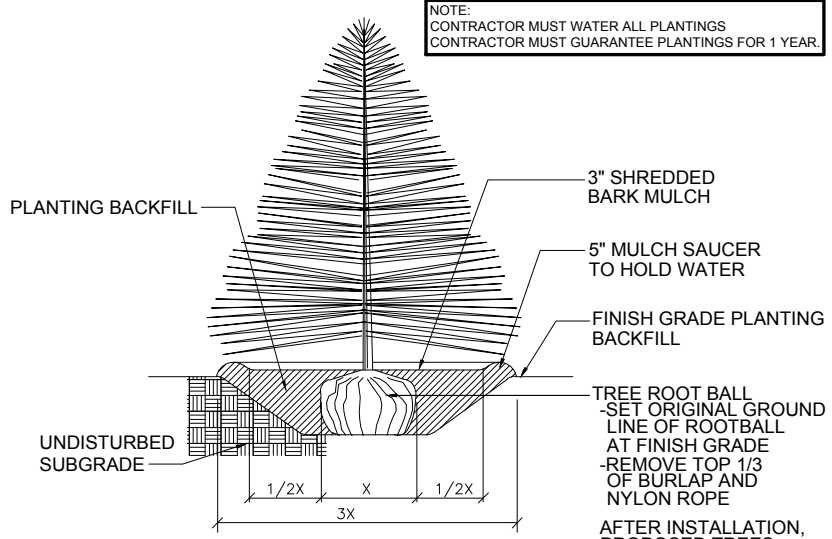
SHEET NUMBER
P-1

GENERAL LANDSCAPE NOTES

1. 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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.



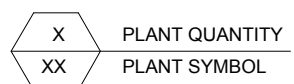
1 EVERGREEN TREE PLANTING

N.T.S.

AFTER INSTALLATION, PROPOSED TREES SHALL BE MAINTAINED BY PROPERTY OWNER

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QUANTITY	SIZE	COMMENTS
VD	VIBURNUM DENTATUM	CHICAGO LUSTRE VIBURNUM	12	3 FT. HT. MIN.	B & B (BALLED & BURLAPPED)



NO.	DESCRIPTION	DATE	BY
1.	ISSUED FOR REVIEW	09/26/15	TJS
2.	ISSUED PER FIBER COORDINATION	10/20/15	MT
3.	ADDITION OF ANTENN MOUNTS	11/05/15	LS
4.	ADDITION OF NTC	12/01/15	MAP
5.	UPDATE WITH CABINET LAYOUT	01/14/16	BTE
6.	UPDATE PER CLIENT COMMENTS	02/24/16	JTM
	REVISED ECR	02/26/16	EW

NO.	DESCRIPTION	DATE	BY
8.	ISSUED FOR FINAL	04/11/16	JTM
7.	UPDATE PER VILLAGE COMMENTS/ISSUED FOR PERMIT	04/01/16	JTM

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
L-1

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS

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

Attachment A

**NOTICE TO CONTRACTOR – ENVIRONMENTAL CONDITIONS/RESTRICTIONS AT
N Sherdan and McGlure/ 313803 (IL/WI)**

Note: Verizon Wireless makes no representation or warranty as to the accuracy or completeness of the information below. Company is fully responsible for its own compliance with all applicable laws and regulations. To the extent that Company becomes aware of any additional environmental conditions, it agrees to immediately inform Verizon Wireless.

The Company's response to this construction bid shall constitute the Company's acknowledgement and acceptance of the stated conditions and restrictions at the site.

The following environmental conditions have been identified at the project site:

Environmental Condition	Description and Location of Contaminant															
Check All That Apply																
<input type="checkbox"/> Contaminated soil																
<input type="checkbox"/> Contaminated groundwater																
<input checked="" type="checkbox"/> Presence of presumed asbestos	Wireless' environmental consultant, EBI Consulting (EBI), identified suspect ACM in the form of roofing materials. EBI did not sample the roofing material. Thus, the roofing material is presumed ACM. Verizon Wireless' proposed installation activities are not anticipated to disturb the roofing material due to the installation of a vertical cable tray up the building wall, non-penetrating cable trays and attachment of the antennas to the penthouse walls.															
<input checked="" type="checkbox"/> Presence of lead-based paint	White painted surfaces on the penthouse door frame were observed to be in fair condition and peeling. EBI collected a sample of the paint and submitted them for laboratory analysis for lead. The white paint on the penthouse door frame is LBP. Verizon Wireless' proposed installation activities are not anticipated to impact the painted surfaces but there exists the potential for this peeling LBP to be disturbed during construction activities. <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="5">LEAD PAINT SCREENING RESULTS</th> </tr> <tr> <th>Sample No.</th> <th>Sample Location</th> <th>Substrate</th> <th>Condition</th> <th>Lead Content (% dry weight)</th> </tr> </thead> <tbody> <tr> <td>PC-1</td> <td>Penthouse Door Frame</td> <td>Wood</td> <td>Fair</td> <td>5.8</td> </tr> </tbody> </table>	LEAD PAINT SCREENING RESULTS					Sample No.	Sample Location	Substrate	Condition	Lead Content (% dry weight)	PC-1	Penthouse Door Frame	Wood	Fair	5.8
LEAD PAINT SCREENING RESULTS																
Sample No.	Sample Location	Substrate	Condition	Lead Content (% dry weight)												
PC-1	Penthouse Door Frame	Wood	Fair	5.8												
<input type="checkbox"/> Other:																

Applicable legal requirements or Verizon Wireless policies and procedures may require that these conditions be communicated to all parties involved in the construction activities at the project site. To the extent that the scope of the project work includes measures to address these conditions, details of the work to be performed shall be as specified in the project documents and/or the Authorization Letter.

Environmental conditions affecting scope of work:
(see project documents for detailed specifications)

▪ **Presumed Asbestos Containing Material (ACM):** In the event that proposed installation activities change where roofing materials will be impacted during construction activities, EBI recommends that a licensed asbestos inspector perform bulk sampling of the roofing materials. Additionally, in the event the materials are determined (or presumed without sampling) to be asbestos-containing, a licensed asbestos abatement contractor should be used to perform the proper removal of the asbestos-containing roofing materials which may be impacted during the installation.

Confirmed and Presumed Lead-Based Paint (LBP): The white paint on the rooftop doorframe is LBP.

- EBI recommends that lead-containing painted surfaces at the Project Site that may be disturbed during proposed installation activities be handled in accordance with applicable regulations. Under applicable OSHA regulations, if the paint contains any concentration lead and will be disturbed (i.e. via sanding, welding, scraping, grinding, etc.) in a way to create fine mists, fumes, or fine particulate aerosols which could be inhaled or ingested by site workers, the proposed construction plans should be reviewed by a qualified individual to evaluate compliance to OSHA Lead in Construction Standard: 29 CFR 1926.62 for Lead, state, and local regulations. However, if painted surfaces will not be disturbed in a way to create mists, fumes, or fine particulate aerosols, then no further action is recommended.
- Environmental oversight, performed by VZW's environmental consultant, (EBI Consulting), will be required if there are any LBP abatement activities to ensure proper removal and disposal of the LBP and that the related manifests and other documentation are finalized properly. (See Evaluation Component #4 below).

Company is required to comply fully with all applicable environmental, industrial hygiene, and worker health and safety laws and regulations; Verizon Wireless' directions and/or instructions contained in this Notice To Contractors. Company shall retain qualified, appropriately specialized (and/or licensed, as required) and adequately insured environmental firms for the completion of specialized work as applicable. Company shall evaluate whether a Health and Safety Plan (HASP) is warranted. Verizon Wireless shall have the final authority to approve the selection of such environmental firms performing services on its behalf. The construction bid package shall include qualifications of proposed firms with respect to the following required services:

Environmental Services Required	
Check All That Apply	
<input checked="" type="checkbox"/>	Asbestos abatement
<input checked="" type="checkbox"/>	Lead based paint abatement
<input checked="" type="checkbox"/>	Hazardous or special waste transportation and disposal.
<input checked="" type="checkbox"/>	Excavation, drilling or advancement through and staging/stockpiling of contaminated media.
<input checked="" type="checkbox"/>	Other: Environmental oversight is required during LBP removal and/or ACM abatement activities (The contact for EBI Consulting is Devon Pavlek at 773-746-6766 or dpavlek@ebiconsulting.com). Consultant requires at least three (3) weeks advanced notice for coordination of oversight activities.

Company shall ensure at all times that only appropriately trained qualified, and licensed workers perform the required environmental services. It is the responsibility of Company to adhere to the following restrictions in response to the above environmental conditions:

An outside environmental "oversight" consultant is required if transportation and disposal of wastes is carried out in accordance with applicable laws, regulations and the Verizon Wireless Environmental Compliance Program. THE USE OF SUCH CONSULTANT IS MANDATORY.

Site Restrictions	
Check All That Apply	
<input type="checkbox"/>	Restrictions on excavations/construction methods. Description
<input type="checkbox"/>	Diesel fuel prohibited at construction site except in fuel tank of vehicle.
<input type="checkbox"/>	Gasoline prohibited at construction site except in fuel tank of vehicle
<input type="checkbox"/>	Other:

Contractor's Signature: _____

Print Name: _____

Witness: _____

Site Name: N Sherdan and McGlure/ 313803

Site Address: 2112-2118 Linn St.

City: Peoria State: Illinois

NOTE: This signed original is to be returned to Area Compliance along with the EES Closeout Report.

CHICAGO SMSA
limited partnership
d/b/a VERIZON WIRELESS



NO.	DESCRIPTION	DATE	BY		JTM
			TJS	MT	
1.	ISSUED FOR REVIEW	09/26/15			JTM
2.	ISSUED PER FIBER COORDINATION	10/20/15			JTM
3.	ADDITION OF ANTENNA MOUNTS	11/05/15			JTM
4.	ADDITION OF NTC	12/01/15			JTM
5.	UPDATE WITH CABINET LAYOUT	01/14/16			JTM
6.	UPDATE PER CLIENT COMMENTS	02/24/16			JTM
	REVISED ECR	02/26/16			JTM

LOC. # 313803

N SHERDAN & McGLURE

2112-2118 LINN ST.
PEORIA, IL 61604

DRAWN BY:	TJS
CHECKED BY:	TAZ
DATE:	09/26/15
PROJECT #:	33-1966

SHEET TITLE
NOTICE TO CONTRACTOR

SHEET NUMBER
NTC-1

SURVEYOR'S NOTE

THE PARENT PARCEL BOUNDARY OF THIS DRAWING IS ILLUSTRATED FROM RECORD INFORMATION AND IS APPROXIMATE.

THE TOPOGRAPHICAL SURVEY FOR THIS MAP WAS PERFORMED ON JULY 9, 2015.

NOT TO BE USED AS CONSTRUCTION DRAWINGS.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM. CONTOURS ARE ILLUSTRATED AT 1.0' INTERVALS.

BM#1) ELEV. 607.04
SE CORNER OF CONCRETE PAD 15'± EAST OF BLDG. #2112 AND 48'± NORTH OF 1 STORY BRICK GARAGE.

FLOOD PLAIN INFORMATION

WE HAVE CONSULTED THE FEDERAL EMERGENCY MANAGEMENT AGENCY NATIONAL FLOOD INSURANCE MAP AS PREPARED FOR THE CITY OF PEORIA, PEORIA COUNTY, ILLINOIS, COMMUNITY PANEL NUMBER 170536 0020 B DATED FEBRUARY 1, 1980, AND FIND THAT THE PROJECT SITE IS ZONED C UNSHADED

ZONING DATA

ACCORDING TO THE SITE CANDIDATE INFORMATION PACKAGE THIS SITE IS ZONED:

R-6
SETBACKS:
FRONT: 50
REAR: 50
SIDE: 50

BASIS OF BEARINGS

LATITUDE AND LONGITUDE OF SITE REFERENCE POINT ARE BASED ON THE HARN (HIGH ACCURACY REFERENCE NETWORK) NAD83 (CORS 96) BEARINGS ARE BASED ON TRUE NORTH AS DETERMINED BY HARN (HIGH ACCURACY REFERENCE NETWORK) NAD83 (CORS 96)

PROPRIETOR

PATCH, DAVID E
351 CATHERINE ST
PEKIN, IL 61554

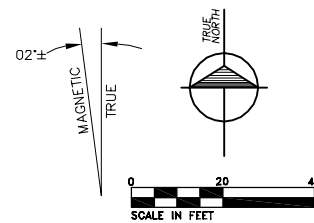
EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS

THE TITLE REPORT ISSUED BY AMC SETTLEMENT SERVICES AS FILE NO. 11235220, DATED JULY 16, 2015 LISTS THE FOLLOWING EASEMENTS, COVENANTS, CONDITIONS, AND RESTRICTIONS, THAT ARE MATTERS OF SURVEY, AFFECTING THE PARENT PARCEL UNDER "SCHEDULE B PART II - EXCEPTIONS":

NO EASEMENTS LISTED.

**N SHERIDAN & MCGLURE
LOC. #313803**

LATITUDE 40°42'46.92"N
LONGITUDE 89°35'43.09"W
GROUND ELEV. 609'±
TOP OF PENTHOUSE PEAK 669'±
TOP OF PARAPET WALL 665'±
ROOF ELEV. 652'±



CALL CHICAGO DIGGERS HOTLINE
1-812-744-7889
OR JULIE, INC. TOLL FREE
1-800-892-0126
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

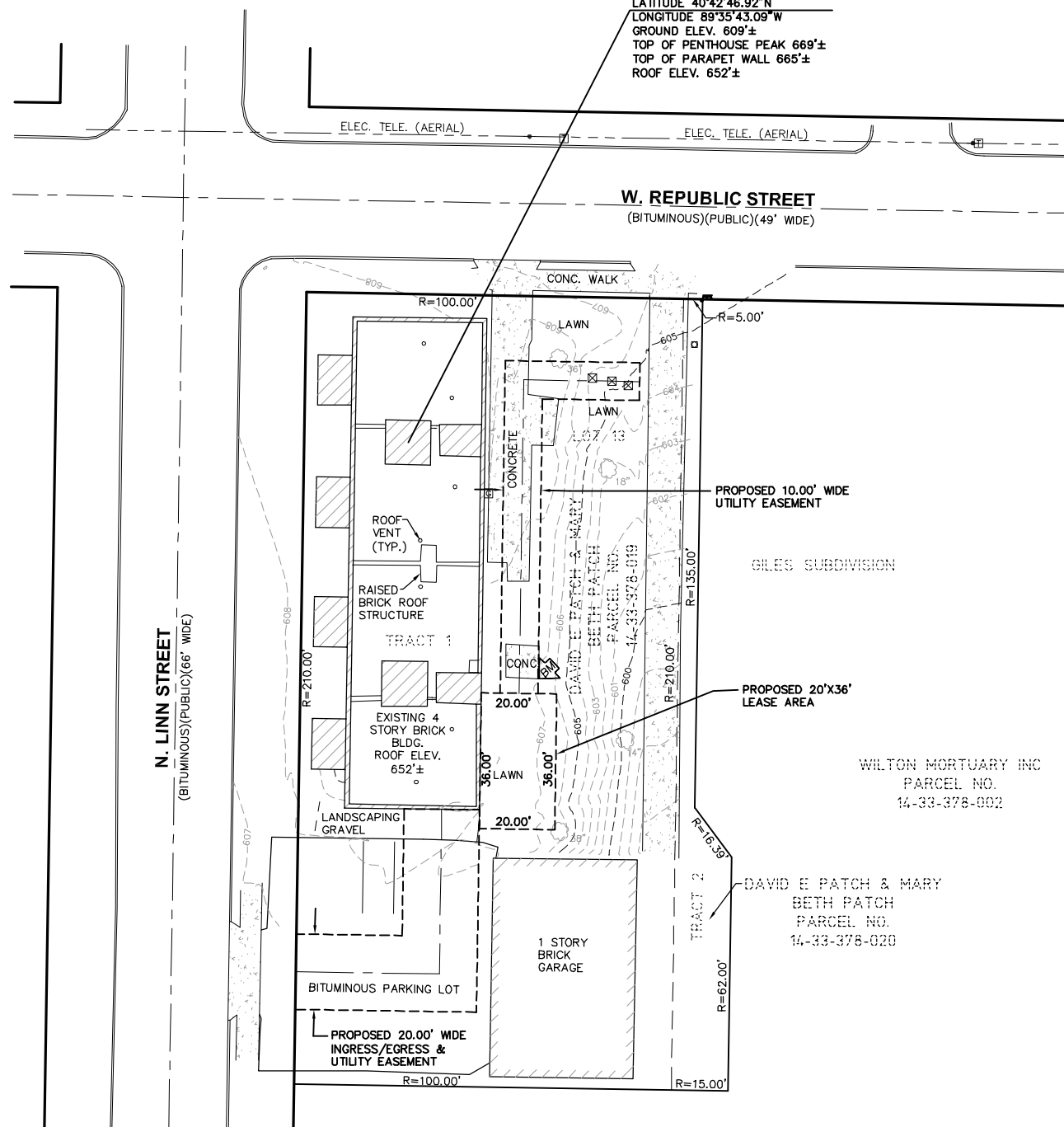
NOTE:
THE ORIGINAL SCALE (1"=20') OF THIS DRAWING WAS PREPARED AS A 24"x36" DRAWING ANY OTHER SIZE DRAWING IS AT A REDUCED SCALE.

VICINITY MAP
N.T.S.

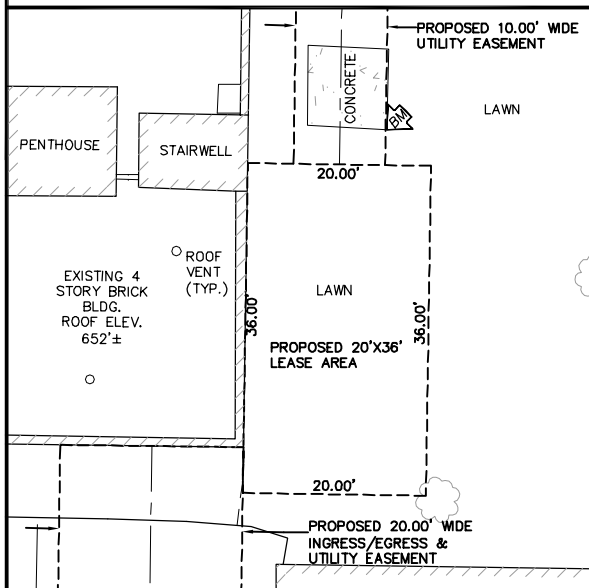
LEGEND

- ▲ - TRAVERSE POINT
- △ - WELL
- ⊙ - HIGHWAY
- ⊕ - MONUMENT
- ⊖ - MONUMENT BOX
- - RIGHT OF WAY MARKER
- - SET WOODSTAKE
- + - 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
- OR - GROUND ROD
- SB#XX - SOIL BORING
- - MAILBOX
- - SATELLITE DISH
- - HAND HOLE
- AC - 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
- - ELECTRIC TRANSFORMER
- - 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
- - 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 exact location nor should it assumed that they are the only utilities in the area.



LEASE AREA DETAIL
SCALE 1"=10'



LEGAL DESCRIPTION

PARENT PARCEL
ALL THAT PARCEL OF LAND IN PEORIA COUNTY, STATE OF ILLINOIS, AS MORE FULLY DESCRIBED IN DEED DOC # 201302230, ID# 14-33-378-019, BEING KNOWN AND DESIGNATED AS METES AND BOUNDS PROPERTY. TRACT 1:

Part of Lot 13 in the Subdivision of the Southwest Quarter of Section 33, Township 9 North, Range 8 East of the Fourth Principal Meridian, more particularly bounded and described as follows, to wit: Commencing at the intersection of Linn Street, and Republic Street; running thence South, along the East line of Linn Street, 210 feet; thence East, at right angles and parallel with the South line of Republic Street, 100 feet; thence North, at right angles and parallel with the East line of Linn Street, 210 feet to the South line of Republic Street; thence West, along the South line of Republic Street, 100 feet to the Point of Beginning; situated in PEORIA COUNTY, ILLINOIS.

TRACT 2:

Part of Lot 13 in GILES SUBDIVISION of the Southwest Quarter of Section 33, Township 9 North, Range 8 East of the Fourth Principal Meridian, more particularly described as follows, to-wit: Commencing at a cross in the driveway on the South line of Republic Street, 100 feet East of the East line of Linn Street and 19 feet South of the North line of said Lot 13; thence South, 210 feet to a pipe; thence East, 15 feet to a pipe; thence North, 62 feet to a pipe; thence North 37 degrees 25 minutes West, a distance of 16.39 feet to a pipe; thence North, 135 feet to a pipe in the South line of Republic Street; thence West, 5 feet to the cross at the point of beginning; situated in PEORIA COUNTY, ILLINOIS.

This map was made from the above legal description which was given to us as a complete description of the property. Both map and description should be compared with the Abstract of Title or Title Policy for any exceptions, easements or differences in description.

LEGAL DESCRIPTION

PROPOSED LEASE AREA

LEGAL DESCRIPTION

PROPOSED INGRESS/EGRESS & UTILITY EASEMENT

**CHICAGO
SMSA**

limited partnership

d/b/a VERIZON WIRELESS

**N SHERIDAN &
MCGLURE
LOC. #313803**

Survey Prepared for:



Project Manager: Tom Zimmermann

REVISIONS

NO.	DESCRIPTION	DATE
1	1	xx/xx/xx

Williams & Works
engineers, planners, surveyors

616.224.1500 phone . 616.224.1501 fax
549 Ottawa Ave NW . Grand Rapids, MI 49503

NW NE
SW SE
33-9-8

DATE: 07/09/15 DWG. BY: W.B.M.

SCALE: 1"=20' SURVEYED: D.S./A.S.

UPDATE: WBM082015 CHKD BY: R.J.K.

PROJECT NO.: 211005.455

SITE NAME

N SHERIDAN & MCGLURE

LOCATION NUMBER

LOC. #313803

SITE ADDRESS

**2112-2118 LINN ST
PEORIA, IL
61604**

SHEET TITLE

PS-1

I, Randy J. Kolehouse, do hereby certify that the drawing shown hereon is a correct representation of a survey performed at and under my direction.

All dimensions shown are in feet and decimal parts thereof.

Given under my hand and seal this ____ day of _____, 2015.

PRELIMINARY

Randy J. Kolehouse
Illinois Professional Land Surveyor No. 2986
Expires November 30, 2016

Note: This certification only applies to improvements within the lease site and easements as monumented shown hereon.

ILLINOIS REGISTERED DESIGN FIRM
LICENSE NUMBER 184.007034
LICENSE EXPIRES: APRIL 30, 2017