HORVATH COMMUNICATIONS
2307 EDISON ROAD
SOUTH BEND, IN 46615

LINCOLN STREET

HV1768

13113 24TH AVENUE
MARNE, MI 49435
OTTAWA COUNTY
TENANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
"2819 LINCOLN STREET"
MDG #: 5000976530

NEW 170' MONOPOLE TOWER
w/5' LIGHTNING ROD
TOTAL TOWER HEIGHT 175'

GPD GROUP
Professional Corporation
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

HORVATH COMMUNICATIONS
2307 EDISON RD
SOUTH BEND, IN 46615

REV.	DATE	DESCRIPTION
A	07/28/26	ISSUED FOR 90% REVIEW
B	10/27/26	SHIFTED LEASE AREA
C	11/02/26	REVISED PER COMMENTS

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION, BID, RELIANCE, RECORDING PURPOSES OR IMPLEMENTATION

LINCOLN STREET
13113 24TH AVENUE
MARNE, MI 49435

TITLE SHEET

ISSUED FOR:	
REVIEW	--/--/--
PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2026705.53

T-1

PROJECT SUMMARY

TOWER OWNER SITE
LINCOLN STREET
SITE #: HV1768

VERIZON WIRELESS SITE
2819 LINCOLN STREET
PROJECT#: 11135960
MARKET ID: MICHIGAN
MDG#: 5000976530

SITE ADDRESS
13113 24TH AVENUE
MARNE, MI 49435
OTTAWA COUNTY
E911 ADDRESS: TBD

TOWER OWNER
HORVATH COMMUNICATIONS
2307 EDISON ROAD
SOUTH BEND, IN 46615
CONTACT: ERIN HORVATH
PHONE: 574-276-3380
E-MAIL: EHORVATH@HORVATHCOMMUNICATIONS.COM

PROPERTY OWNER
BRYAN L AND TAMMY S GEURINK
13113 24TH AVENUE
MARNE, MI 49435
CONTACT: BRYAN OR TAMMY GEURINK
PHONE: 616-677-3621
E-MAIL: tammygeurink@gmail.com

POLICE
OTTAWA COUNTY SHERIFF'S OFFICE
12220 FILMORE STREET
WEST OLIVE, MI 49460
PHONE: 616-738-4000

FIRE
WRIGHT - TALLMADGE TOWNSHIP
FIRE STATION 1
14715 MAIN STREET
MARNE, MI 49435
PHONE: 616-677-1610

GENERAL INFORMATION
LATITUDE - 43° 00' 27.25" N (43.007569°)
LONGITUDE - 85° 50' 55.64" W (-85.848789°)
1983 (NAD83)

ELEVATION - 728.00' AMSL
1988 (NAVD88)

TOWER OWNER LEASE AREA
67'-0" X 150'-0"
(10,050 SF)

VERIZON WIRELESS LEASE AREA
12'-0" X 25'-0"
(300 SF)

PROJECT TOTAL DISTURBED AREA
COMPOUND: (3,825 SF) = (.09 ACRE)
ACCESS DRIVE: (4,909 SF) = (.11 ACRE)
LANDSCAPE: (2,728 SF) = (.06 ACRE)
GROSS AREA: (11,462 SF) = (.26 ACRE)

ALL CONSTRUCTION ITEMS ARE TO BE COMPLETED BY THE TOWER OWNER GENERAL CONTRACTOR UNLESS NOTED AS (VZW GC) WHICH SHALL BE COMPLETED BY THE VERIZON WIRELESS GENERAL CONTRACTOR

PROJECT DESCRIPTION

PROJECT DESCRIPTION:
- ALL WORK ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY THE TOWER OWNER'S GENERAL CONTRACTOR AND THEIR SUB-CONTRACTOR(S) UNLESS NOTED AS (VZW GC) WHICH SHALL BE PERFORMED BY THE VERIZON WIRELESS GENERAL CONTRACTOR AND THEIR SUB-CONTRACTOR(S), AND IS GENERALLY DESCRIBED BELOW.
- PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY

RESPONSIBLE PARTY		ITEM OF WORK
TOWER OWNER	VERIZON	
X		INSTALL THE TOWER
X		INSTALL THE FENCED GRAVEL COMPOUND AND ALL GENERAL SITE CONSTRUCTION ITEMS
X		INSTALL A GRAVEL ACCESS DRIVE
X		INSTALL TOWER AND SITE GROUNDING
X		INSTALL VERIZON GROUNDING (IN VERIZON LEASE SPACE)
X		INSTALL NEW ELECTRICAL SERVICE TO THE NEW UTILITY H-FRAME
X		OBTAIN VERIZON METER WITH THE NEW ELECTRICAL SERVICE REQUEST
X		INSTALL CONCRETE FOUNDATIONS FOR VERIZON EQUIPMENT AND GENERATOR
X		INSTALL VERIZON PROPANE TANK CONCRETE FOUNDATION AND BELOW GRADE FUEL LINE CONDUIT (ONLY FOR SITES WITH PROPANE GENERATOR AND TANK)
X		INSTALL VERIZON ICE BRIDGE AND FOUNDATIONS
X		INSTALL VERIZON EQUIPMENT H-FRAME w/ FOUNDATION, AND ICE PROTECTION
X		INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPE FROM UTILITY H-FRAME TO VERIZON ILC STUB UP LOCATION
X		INSTALL CONDUIT(S) WITH PULL TAPE FROM VERIZON ILC STUB UP LOCATION TO GENERATOR STUB UP LOCATION
X		INSTALL TELCO CONDUIT(S) W/ TRACER WIRE FROM HANDHOLE(S) AT PUBLIC R.O.W. TO THE UTILITY H-FRAME OR HANDHOLE(S) AT COMPOUND - VERIZON HANDHOLE(S) TO BE LABELLED AS "VERIZON WIRELESS ONLY"
X		INSTALL VERIZON ONLY TELCO CONDUIT W/ TRACER WIRE FROM UTILITY H-FRAME/COMPOUND HANDHOLE TO VERIZON EQUIPMENT H-FRAME
	X	INSTALL VERIZON EQUIPMENT CABINET(S), GENERATOR AND PREFABRICATED CANOPY AND SUPPORTS
	X	INSTALL VERIZON PROPANE TANK AND FUEL LINE TO GENERATOR (ONLY FOR SITES WITH PROPANE GENERATOR AND TANK)
	X	CONNECT SUBSURFACE GROUND LEADS (INSTALLED BY TOWER OWNER) TO VERIZON EQUIPMENT AND FACILITIES
	X	FURNISH AND INSTALL VERIZON ANTENNA MOUNT ASSEMBLY ON TOWER
	X	INSTALL VERIZON ANTENNAS, LINES, RADIO EQUIPMENT, AND GPS ANTENNA
	X	INSTALL GROUND OVP AND CABLING ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL ILC ENCLOSURE, POWER AND FIBER JUNCTION BOXES AND ASSOCIATED CONDUITS WITH PULL TAPES ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL VERIZON ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO ILC ENCLOSURE ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL CIRCUITS FROM ILC ENCLOSURE TO VERIZON EQUIPMENT CABINET(S) AND GENERATOR.

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (IBC) AND THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING CODE	MICHIGAN BUILDING CODE ADOPTED EDITION (2021 IBC)
STRUCTURAL CODE	TIA/EIA-222 - REVISION H
MECHANICAL CODE	MICHIGAN MECHANICAL CODE ADOPTED EDITION (2021 IMC)
PLUMBING CODE	MICHIGAN PLUMBING CODE ADOPTED ADDITION (2021 IPC)
ELECTRICAL CODE	2023 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE	MICHIGAN LIFE SAFETY CODE (2021 NFPA 101)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. BARRIER FREE ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE MICHIGAN (IBC) BUILDING CODE.

APPLICABLE CODES

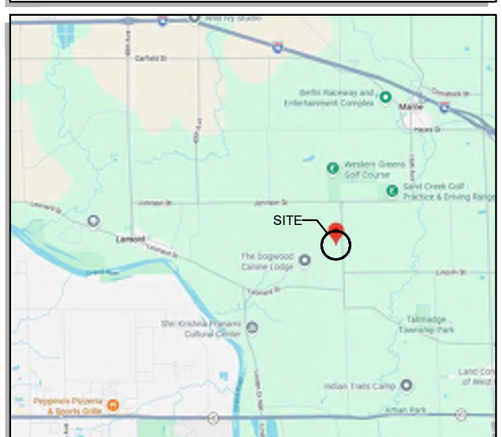
CONSULTANT TEAM

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

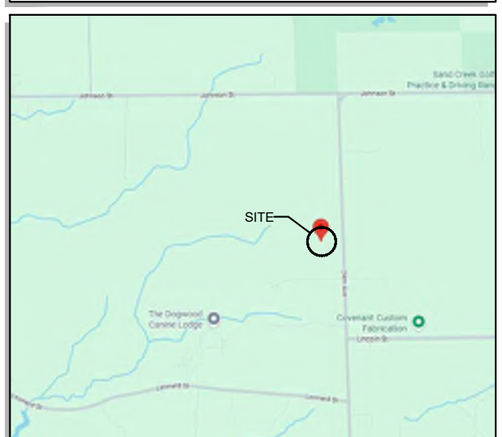
ELECTRICAL
CONSUMERS ENERGY
ADDRESS: TBD
CONTACT: TBD
PHONE: 800-805-0490
EMAIL: TBD

ARCHITECTURAL
GPD GROUP PROFESSIONAL CORPORATION
520 SOUTH MAIN ST., SUITE 2531
AKRON, OH 44311
CONTACT: TRACI PREBLE
PHONE: 317-299-2996
EMAIL: TPREBLE@GPDGROUP.COM

ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.



VICINITY MAP © SOURCE MATERIAL



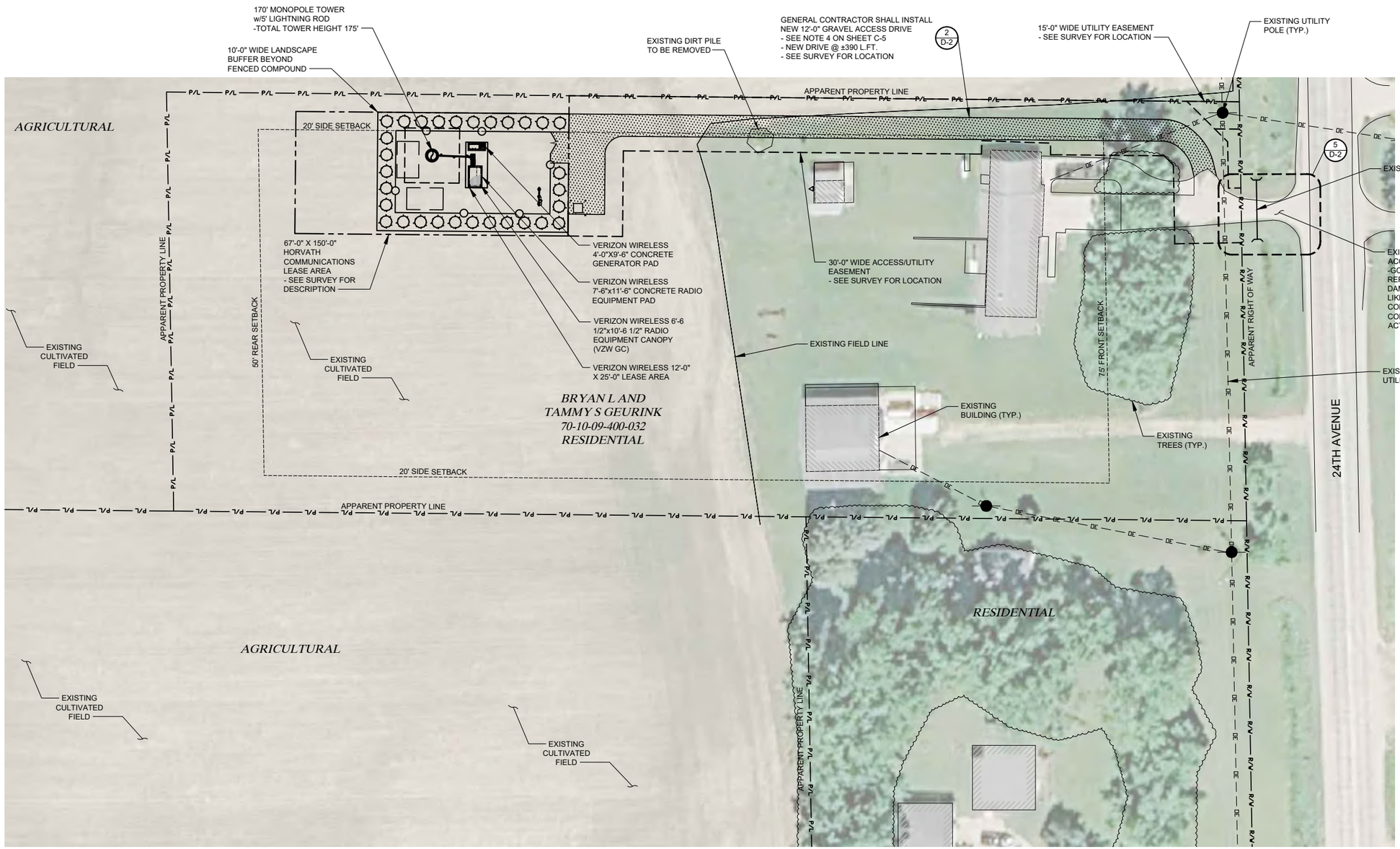
LOCATION MAP © SOURCE MATERIAL



AERIAL © SOURCE MATERIAL

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
	SURVEY PLAN
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/TOWER DISTANCE TO PROPERTY LINES
C-1B	TOWER DISTANCE TO RESIDENTIAL STRUCTURES
C-2	GRADING AND E&S CONTROL PLAN
C-3	DETAILED & DIMENSIONED SITE PLAN
C-4	DETAILED EQUIPMENT PAD PLAN
C-5	GENERAL SITE CONSTRUCTION NOTES
C-6	BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS AND NOTES
SITE DETAILS	
D-1	FENCE DETAILS AND NOTES
D-2	SITE DETAILS
D-3	EQUIPMENT PAD & CANOPY ELEVATIONS
D-4	VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)
D-5	TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)
L-1	LANDSCAPE PLAN, DETAILS AND NOTES
STRUCTURAL	
S-1	EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES
S-2	ICE BRIDGE PLAN AND DETAILS
S-3	FOUNDATION PLAN AND DETAILS
TOWER ELEVATION	
TE-1	TOWER ELEVATION
ELECTRICAL	
E-1	SITE UTILITY PLAN
E-1A	OVERALL SITE UTILITY PLAN
E-2	PANEL SCHEDULE, ONE LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS
E-3	EQUIPMENT PAD UTILITY PLAN & EQUIPMENT PAD TRENCH SECTIONS
E-4	OVP & INTEGRATED LOAD CENTER H-FRAME ELEVATIONS AND DETAILS
E-5	ELECTRICAL DETAILS
E-6	EQUIPMENT CABINET ELEVATIONS
E-7	EQUIPMENT PAD LIGHTING PLAN
E-8	ALARMING TABLE, DIAGRAMS AND DETAILS (REFERENCE ONLY)
E-9	ALARM AND FIBER CABLE ROUTING (REFERENCE ONLY)
GROUNDING	
G-1	GROUNDING SITE PLAN
G-2	GROUNDING NOTES
G-3	VERIZON WIRELESS GROUNDING PLAN AND NOTES
G-4	GROUNDING DETAILS
G-5	GROUNDING DETAILS
G-6	GROUNDING DETAILS
REFERENCE DRAWINGS	
RF-1	ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
REF-1	GENERATOR SPECIFICATIONS (REFERENCE ONLY)
TOWER (BY OTHERS)	
TW-1	TOWER DETAILS (REFERENCE ONLY)
TW-2	TOWER DETAILS (REFERENCE ONLY)

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GRAPHIC SCALE

60 0 30 60 120

OVERALL SITE PLAN w/AERIAL OVERLAY

SCALE: 1" = 60'

NORTH

811 Know what's below. Call before you dig.

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN MICHIGAN, CALL MISS DIG

TOLL FREE: 1-800-482-7171 OR

www.missdig.org

MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

APWA UTILITY COLOR CODES

- PROPOSED CONSTRUCTION
- TEMPORARY SURVEY MARKINGS
- ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
- GAS, OIL STEAM PETROLEUM OR GASEOUS MATERIALS
- COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
- POTABLE WATER
- RECLAIMED WATER, IRRIGATION AND SLURRY LINES
- SEWERS AND DRAIN LINES

GPD GROUP
Professional Corporation
520 South Main Street, Suite 2531
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2307 EDISON RD
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PURPOSES OR
IMPLEMENTATION

LINCOLN STREET
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MARNE, MI 49435

OVERALL SITE PLAN
w/AERIAL OVERLAY

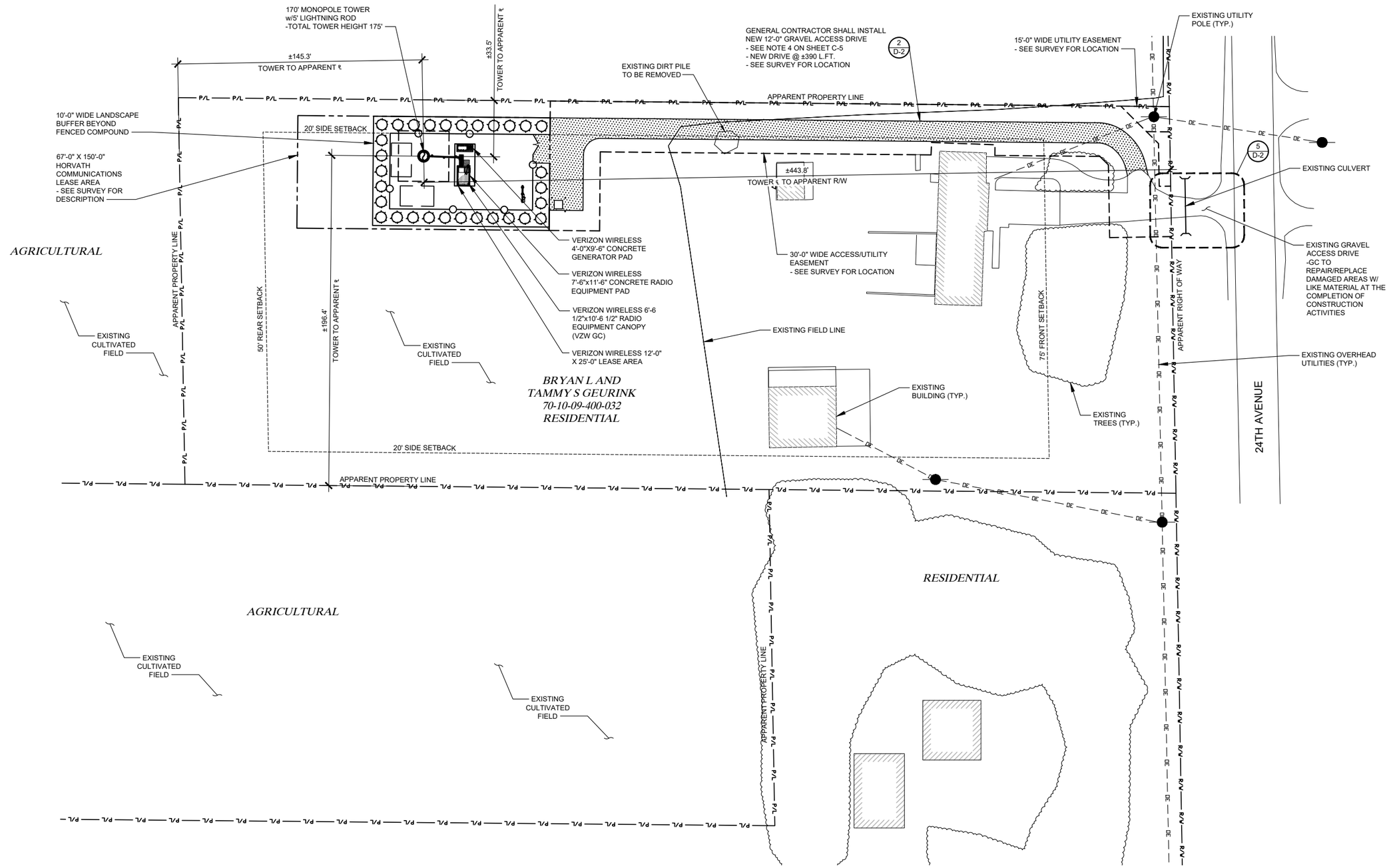
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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2026705.53

C-1

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GRAPHIC SCALE

60 0 30 60 120

OVERALL SITE PLAN w/TOWER DISTANCE TO PROPERTY LINES

SCALE: 1" = 60'

NORTH

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OVERALL SITE PLAN w/EQUIPMENT PAD DISTANCE TO PROPERTY LINES

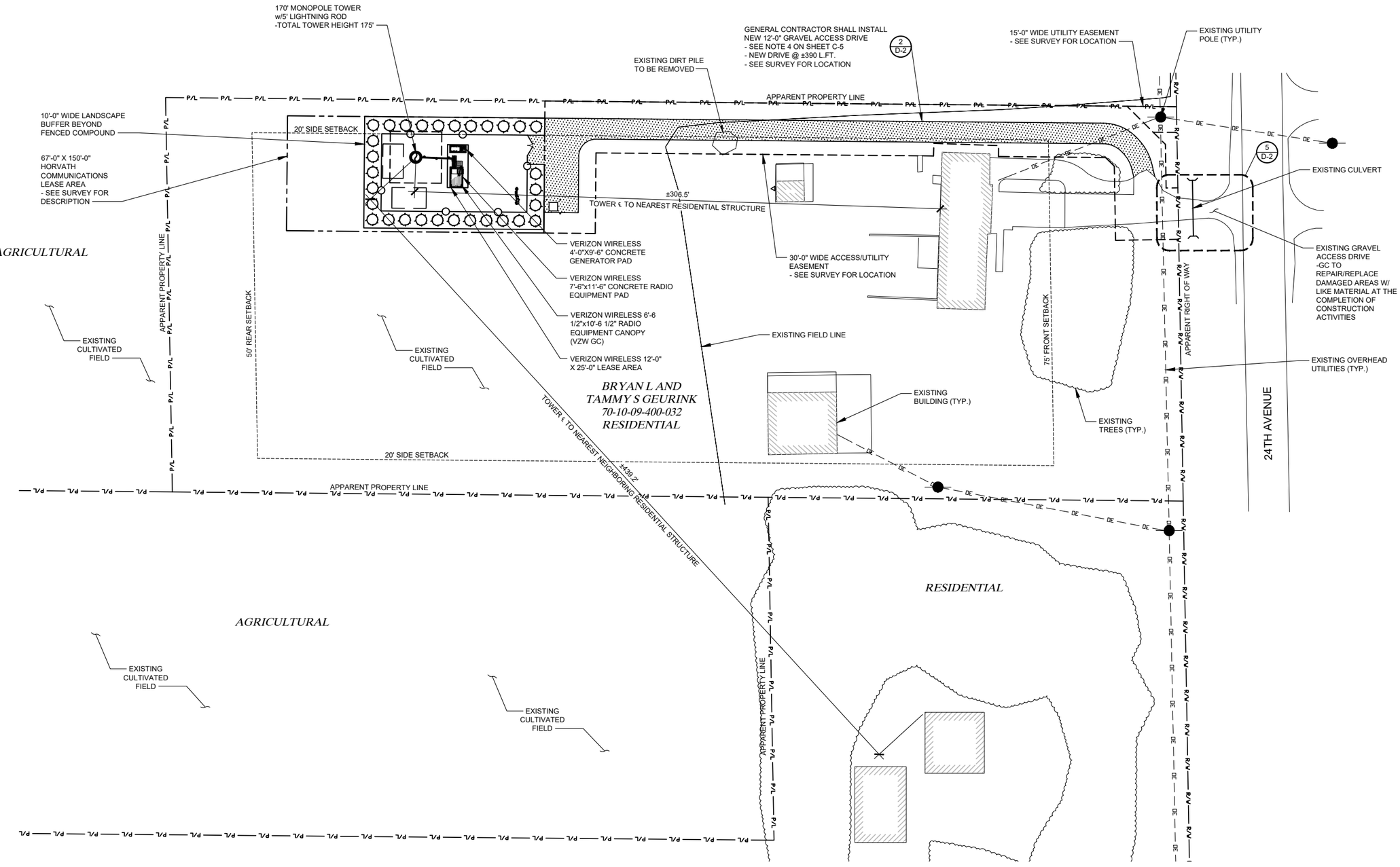
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PERMIT	--/--/--
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PROJECT MANAGER	DESIGNER
TTP	SEK

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C-1A

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GRAPHIC SCALE

60 0 30 60 120

TOWER DISTANCE TO RESIDENTIAL STRUCTURES

SCALE: 1" = 60'

NORTH

811 Know what's **below.** **Call** before you dig.

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TOLL FREE: 1-800-482-7171 OR www.missdig.org

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TOWER DISTANCE TO RESIDENTIAL STRUCTURES

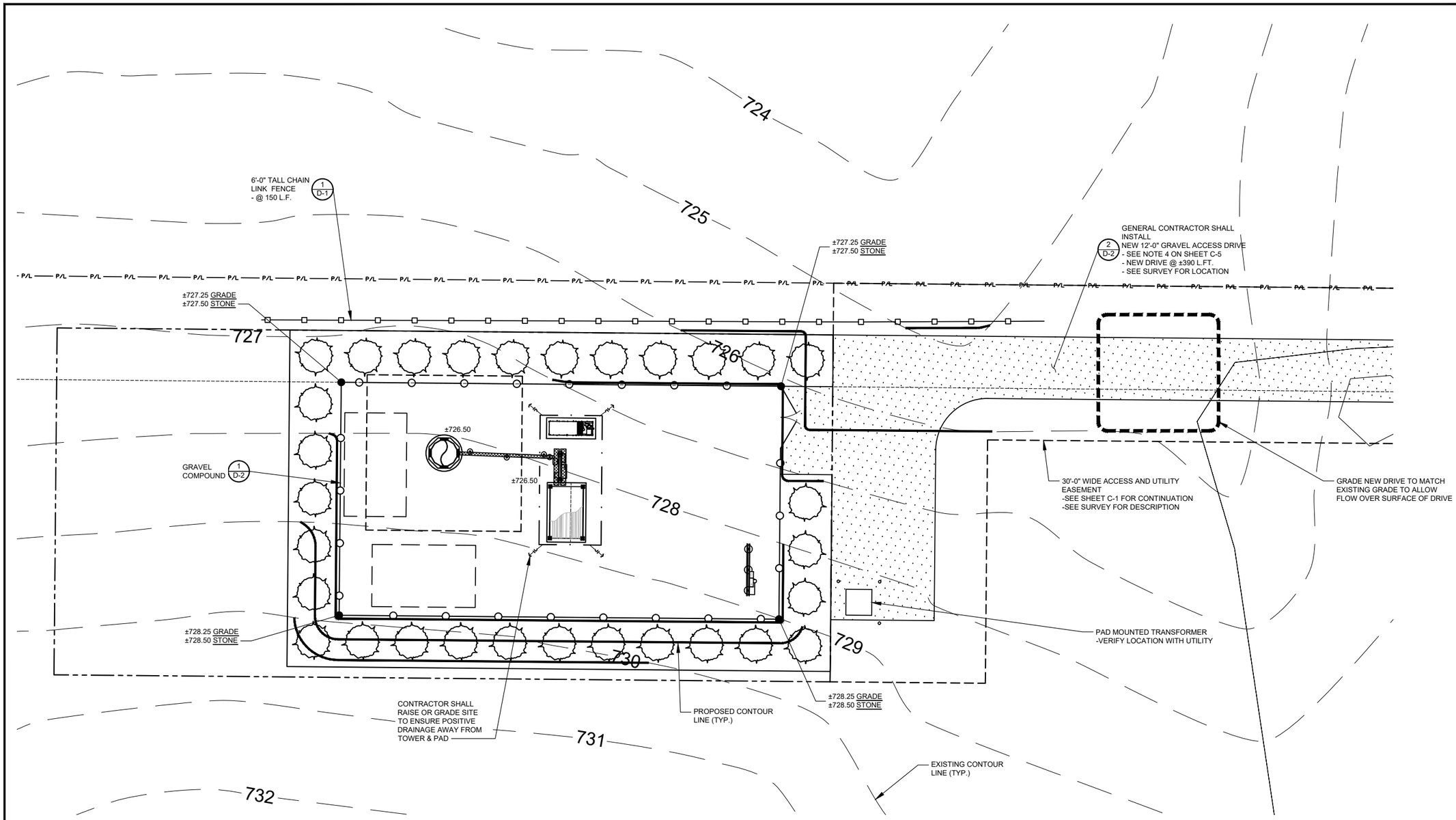
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PROJECT MANAGER	DESIGNER
TTP	SEK

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C-1B

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GRADING AND E&S CONTROL PLAN

SCALE: 1" = 20'

NORTH

GRAPHIC SCALE

20 0 10 20 40

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GRADING AND E&S CONTROL PLAN

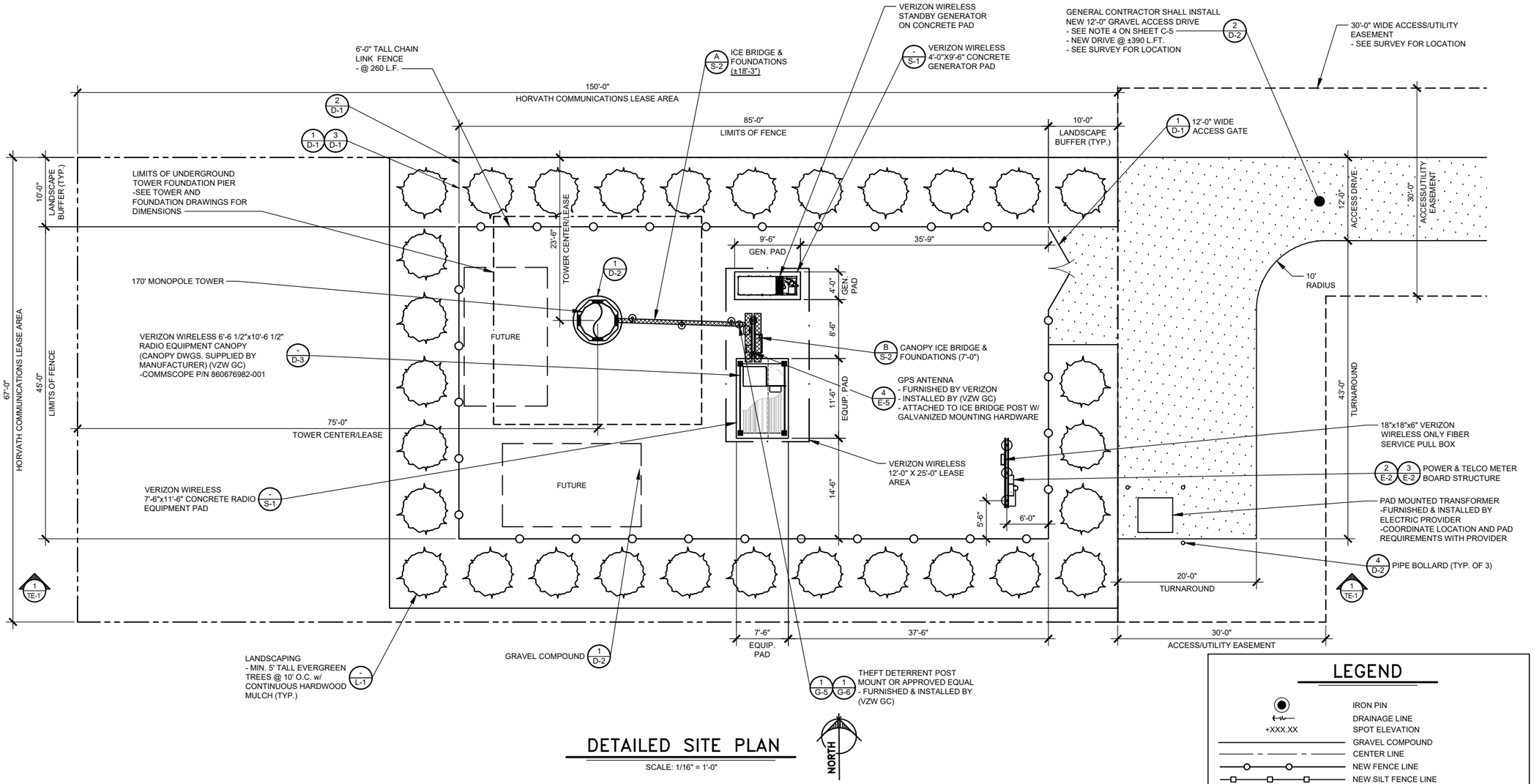
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PROJECT MANAGER	DESIGNER
TTP	SEK

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C-2

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DETAILED SITE PLAN

SCALE: 1/16" = 1'-0"

LEGEND

- IRON PIN
- DRAINAGE LINE
- +XXX.XX SPOT ELEVATION
- GRAVEL COMPOUND
- CENTER LINE
- NEW FENCE LINE
- NEW SILT FENCE LINE
- POWER POLE w/OVERHEAD ELEC./TELE.
- EDGE OF NEW DRIVE
- UNDERGROUND ELECTRICAL CONDUIT
- UNDERGROUND TELEPHONE CONDUIT
- EXISTING CONTOURS
- NEW CONTOURS
- FENCED COMPOUND
- CONCRETE
- ACCESS DRIVE

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TOLL FREE: 1-800-482-7171 OR
www.missdig.org
MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER

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DETAILED & DIMENSIONED SITE PLAN

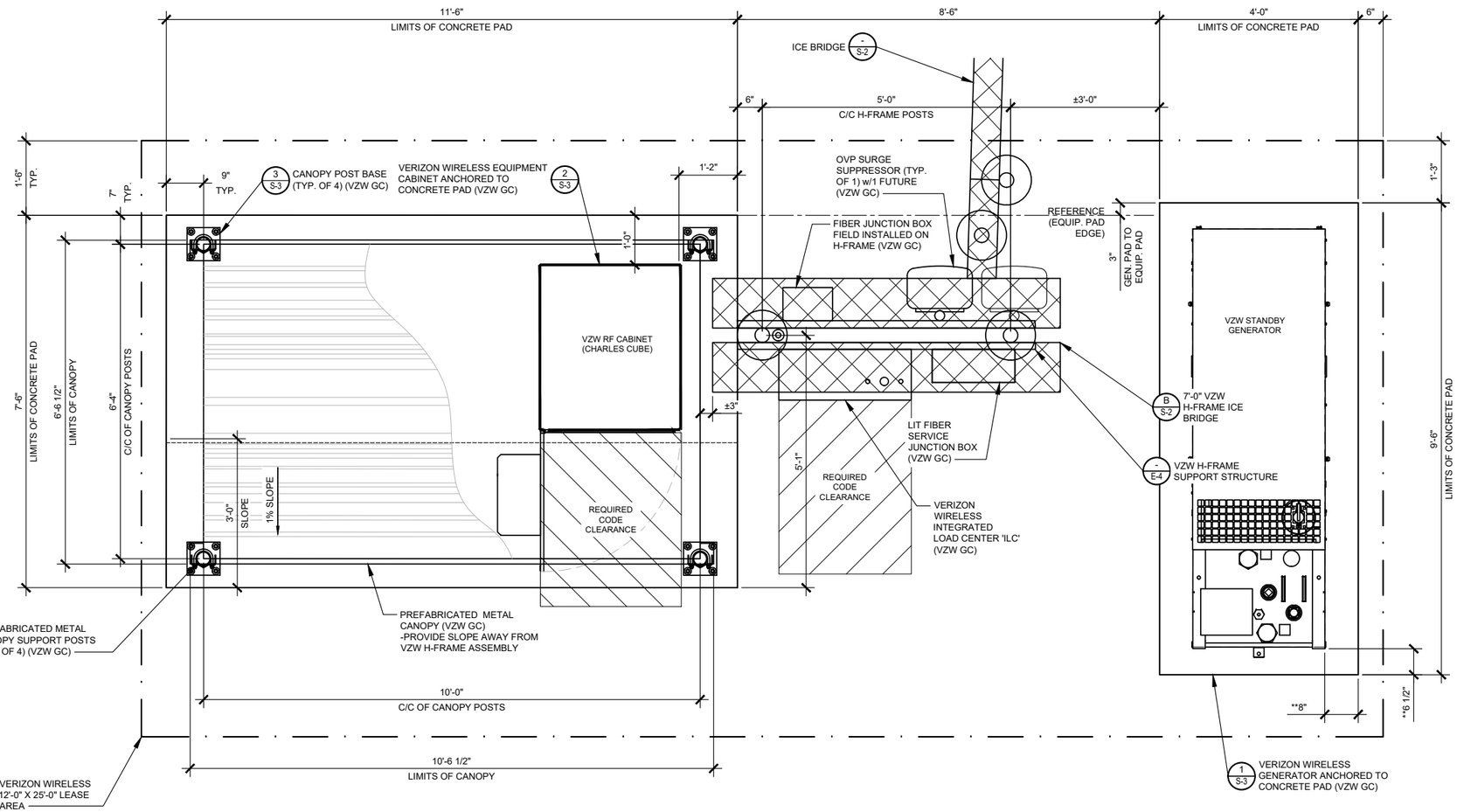
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PROJECT MANAGER	DESIGNER
TTP	SEK

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C-3

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**NOTE:
CONTRACTOR SHALL VERIFY CONDUIT STUB-UP LOCATIONS WITH VERIZON WIRELESS SPECIFIED GENERATOR PRIOR TO INSTALLATION. GENERATOR PLACEMENT MAY VARY PER CONDUIT STUB-UP LOCATIONS

DETAILED VZW EQUIPMENT PLAN

SCALE: 3/8" = 1'-0"

NORTH

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DETAILED EQUIPMENT PAD PLAN

ISSUED FOR:	
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CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
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C-4

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GENERAL SITE CONSTRUCTION NOTES

1. SCHEDULE:

THE CONSTRUCTION OF THE SITE REQUIRES A CERTAIN SEQUENCE OF EVENTS TO MINIMIZE CONSTRUCTION TIME REQUIRED UNTIL AVAILABILITY OF CELLULAR TELEPHONE SERVICE. VERIFY SCHEDULE DURING BID WALK.

2. TOWER OWNER REPRESENTATIVE:

HORVATH COMMUNICATIONS
2307 EDISON ROAD
SOUTH BEND, IN 46615
CONTACT: ERIN HORVATH
PHONE: 574-276-3380
E-MAIL: EHORVATH@
HORVATHCOMMUNICATIONS.COM

PROPERTY OWNER REPRESENTATIVE:

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13113 24TH AVENUE
MARNE, MI 49435
CONTACT: BRYAN OR TAMMY GEURINK
PHONE: 616-677-3621
E-MAIL: tammygeurink@gmail.com

3. ANTENNA INSTALLATION:

THE VERIZON WIRELESS CONTRACTOR (VZW GC) INSTALLING THE FRAME/PLATFORM SHALL ENSURE THAT THE PLATFORM IS ALIGNED BASED ON THE VERIZON WIRELESS RF PLAN. DURING THIS WORK, THE GENERAL CONTRACTOR SHALL BE LIMITED TO THE WORK WHICH CAN BE PERFORMED OUTSIDE THE VICINITY OF THE TOWER.

4. ACCESS DRIVEWAY:

THE GENERAL CONTRACTOR SHALL CONSTRUCT THE ACCESS DRIVE PER THE ALIGNMENT AS SHOWN ON THESE DRAWINGS. IF ANY AREA OF CONSTRUCTION REQUIRES ADDITIONAL FILL OF AGGREGATE STONE THAN SHOWN ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER FOR APPROVAL OF THE SIZE, TYPE AND QUANTITY OF STONE/FILL NECESSARY AND SHALL NOT BE USED UNTIL APPROVAL BY THE ENGINEER. THE GENERAL CONTRACTOR SHALL ALSO OBTAIN DRIVE PERMIT FOR NEW ACCESS DRIVE.

5. PREFABRICATED EQUIPMENT CABINETS, CANOPY AND GENERATOR:

THIS VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS FOR THE PROPER LIFTING, TRANSPORTING AND ASSEMBLY OF THE PREFABRICATED EQUIPMENT CANOPY FROM THE TRANSPORT TRUCK BED TO THE FINAL POSITION. THE EQUIPMENT CABINETS SHALL BE LIFTED INTO PLACE ON THE CONCRETE EQUIPMENT PAD. THE GENERATOR SHALL BE LIFTED INTO PLACE BY USING TWO SPREADER BAR ASSEMBLIES. EACH SPREADER BAR SHALL BE A MINIMUM 3' WIDE (RATED TO CARRY 3 TONS). THE GENERATOR WEIGHT IS 1,425# WITH TANK PEDESTAL. VERIZON WIRELESS CONTRACTOR (VZW GC) SHALL ANCHOR THE EQUIPMENT CABINETS AND GENERATOR BASE TO THE CONCRETE SLAB USING ANCHOR BOLTS. EXTREME CAUTION SHALL BE TAKEN IN THE INSTALLATION OF ALL EQUIPMENT TO AVOID CONTACT WITH EXISTING OVERHEAD UTILITY LINES.

THE VERIZON WIRELESS CONTRACTOR (VZW GC) IS RESPONSIBLE FOR ATTACHING, SECURING OR ASSEMBLING ANY ACCESSORY OR LOOSE ITEMS THAT ARE SHIPPED WITH THE PREFABRICATED EQUIPMENT CABINETS, CANOPY AND GENERATOR AND SHALL INCLUDE THIS WORK IN THE VZW EQUIPMENT INSTALLATION PORTION OF THE BID.

6. UTILITIES:

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXCAVATION AND PROPER BACKFILLING OF TRENCHES AND SUPPLY CONDUIT REQUIRED FOR UNDERGROUND TELEPHONE & ELECTRICAL UTILITIES. ALL TRENCHING SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE W/ASTM D-1557.

THE TOWER OWNER SHALL ENSURE ELECTRIC METER BASE IS COMPLETELY INSTALLED FOR VERIZON WIRELESS PRIOR TO THE SITE BEING RELEASED TO VERIZON WIRELESS AS TENANT READY.

THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL RUN ELECTRICAL CONDUCTORS FROM NEW METER CENTER TO NEW VZW INTEGRATED LOAD CENTER WITHIN TOWER OWNER INSTALLED 2 1/2" CONDUIT CONTACT ELECTRIC PROVIDER TO HAVE NEW METER INSTALLED.

THE VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR THE ORDERING AND COORDINATING THE DELIVERY OF A FIBER OPTIC SERVICE LINE TO THE RADIO EQUIPMENT ENCLOSURE. COORDINATE WITH THE FIBER PROVIDER AND THE VERIZON WIRELESS FACILITY ENGINEER.

1. TWO (2) VERIZON ONLY 2" DIA. SCHD 40 PVC CONDUITS AND PULL TAPES FOR VERIZON WIRELESS FIBER SERVICE AND ONE (1) 4" DIA. SCHD 40 PVC FIBER CONDUIT W/ PULL TAPES, OR AS SPECIFIED BY THE TOWER OWNER FOR FUTURE FIBER SERVICE, SHALL BE INSTALLED FROM H-FRAME JUNCTION BOX TO HANDHOLE MEET POINT AT THE PUBLIC RIGHT-OF-WAY.
   - THE VERIZON FIBER HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUAZITE|HUBBELL POWER SYSTEMS MODEL PG2436Z1857B4 ASSY T22 SW OB 24x36x30 VERIZON V, OR APPROVED EQUALS. ALTERNATIVE HANDHOLES MAY BE USED IF MEETING THE DESIGNATED LOADING AND HAVING DIMENSIONS OF AT LEAST 2'x3'x2.5'. ALL VERIZON HANDHOLES TO HAVE "VERIZON" LOGO ON COVER.
   - THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE, AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
3. TWO (2) 2" SCHD 40 PVC CONDUITS W/ PULL TAPES FOR VERIZON WIRELESS FIBER SERVICE SHALL BE INSTALLED FROM H-FRAME JUNCTION BOX TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS).
4. CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S).
5. IF WET GROUND CONDITIONS ARE ENCOUNTERED ONE 4" DIA. SCH40 PVC FIBER CONDUIT W/ THREE (3) 1" HDPE SMOOTH WALL INNERDUCTS AND PULL TAPES MAY BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND MEET POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE.

7. SITE GRADING

A. UNIFORMLY GRADE AREA TO BE SMOOTH SURFACE FREE FROM IRREGULAR SURFACE CHANGES. COMPLY WITH COMPACTION REQUIREMENTS AND GRADE TO CROSS SECTION, TOPO LINES AND ELEVATIONS INDICATED.

1. COMPOUND SURFACE GRADES ARE TO BE SLOPED TO DIRECT WATER AWAY FROM EQUIPMENT PAD AND TOWER TO PREVENT STANDING AND PONDING WATER.

2. COMPOUND SURFACE SHALL BE COMPACTED TO A 95% MAXIMUM DRY DENSITY TO ALLOW PROPER STERILIZATION FOR ACCESS TO ALL CUSTOMERS DENSITY TESTING MAY BE REQUIRED AT VERIZON WIRELESS' DISCRETION DUE TO QUESTIONABLE COMPACTION OF FINISH SURFACE GRADE OR SUB-GRADE.

3. DITCHES/SWALES AROUND THE COMPOUND AREA AND ALONG ACCESS ROAD SHALL BE CONSTRUCTED SO TO PROVIDE A SMOOTH TRANSITION BETWEEN EXISTING GRADES/SLOPE AND NEW PROPOSED GRADES.

4. SITE GRADING AND DRAINAGE SHOULD BE CONSTRUCTED TO PREVENT WATER FROM ENTERING THE COMPOUND SURFACE OR THE ACCESS ROAD SUB-GRADE.

B. MOISTURE CONTROL - UNIFORMLY MOISTEN OR AERATE SUB-GRADE AND EACH SUBSEQUENT FILL OR BACK FILL LAYER BEFORE COMPACTION TO WITHIN 90% OF OPTIMUM MOISTURE CONTENT. DO NOT PLACE BACK FILL OR FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN OR CONTAIN FROST, SNOW OR ICE.

C. STOCKPILING MATERIAL (TOP SOIL OR FILL DIRT) - SHOULD BE PLACED IN AN AREA THAT CAN BE CONTROLLED TO PREVENT WATER, SNOW, OR ICE FROM EFFECTING MOISTURE CONTENT. STOCKPILES MAY HAVE TO BE COVERED TO PREVENT ADDITIONAL MOISTURE FROM ACCUMULATING SO ACCEPTABLE FILL CAN BE USED.

D. DE-WATERING - PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUB-GRADE, AND FROM FLOODING PROJECT OR BUILD AREA.

E. EROSION CONTROL - MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.
1. ALL INLETS, DRAINS, PIPES, SWELLS, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT.

F. GEOTEXTILE FABRIC - AFTER PLACEMENT AND COMPACTION OF FILL WITHIN THE WORK AREA AND BEFORE THE PLACEMENT OF LIMESTONE AGGREGATE, (SEE SITE AREA SURFACING DETAIL ON D-1), THE ENTIRE DISTURBED WORK AREA SHALL BE COVERED WITH A GEOTEXTILE FABRIC. THIS FABRIC SHALL BE "TENCATE (MIRAFI 500X) WOVEN ENGINEERING FABRIC" INSTALLED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.

8. TRASH REMOVAL & SANITATION:

THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL REMOVE ALL TRASH AS CREATED BY THEMSELVES AND THEIR SUBCONTRACTORS. TRASH SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL AREA. THE GENERAL CONTRACTOR SHALL ALSO REMOVE ALL TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. NO BURNING OR BURYING OF TRASH IS PERMITTED.

THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE TOILET FOR THE DURATION OF THE CONSTRUCTION PROJECT.

9. TOWER:

A. THE GENERAL CONTRACTOR SHALL VERIFY THE EQUIPMENT PAD FOUNDATION IS LOCATED CORRECTLY WITH RESPECT TO THE TOWER FOUNDATION. THE CONTRACTOR MUST NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO POURING CONCRETE.

B. TOWER & FOUNDATION DESIGN ARE BY OTHERS FOR TOWER OWNER. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN WRITING FROM TOWER OWNER THAT THE TOWER IS STRUCTURALLY SUFFICIENT TO SUPPORT ALL LOADINGS AS OUTLINED IN THESE DOCUMENTS. TOWER AND FOUNDATION DESIGN SHALL BE PERFORMED BY A LICENSED ENGINEER.

C. THE GENERAL CONTRACTOR SHALL VERIFY THE TOP OF FOUNDATION MATCHES THE FAA APPROVAL LETTER.

10. EXCAVATION OF UTILITIES:

A. FIELD VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATING IN THE VICINITY OF THE SITE. ALL EXCAVATIONS SHALL BE MADE BY HAND OVER OR UNDER OR IMMEDIATELY ADJACENT TO ANY EXISTING UTILITIES & GROUNDING.

B. ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. CONTACT UNDERGROUND UTILITY PROTECTION SERVICE BEFORE YOU DIG AT 1-800-482-7171 OR 811.

C. EXISTING UTILITIES ARE SHOWN FROM THE SURVEY AND ARE NOT NECESSARILY COMPLETE AND ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE AND DETERMINE IF CONFLICTS EXIST WITH THE NEW IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER (A&E FIRM) IN ORDER TO RESOLVE ANY CONFLICTS.

11. CONTRACTOR'S LICENSE:

THE GENERAL CONTRACTOR, VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) AND ALL OF THEIR SUBCONTRACTORS THAT DO ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED TO PERFORM WORK IN THE LOCATION OF THIS SITE. PROOF OF LICENSES SHALL BE SUPPLIED TO VERIZON WIRELESS PRIOR TO THE COMMENCEMENT OF ANY WORK.

12. SEEDING:

ALL DISTURBED AREAS SHALL BE REPAIRED AND SEEDED BY THE GENERAL CONTRACTOR, UNLESS OTHERWISE NOTED. SEED DISTURBED AREAS W/4 POUNDS/1000 SQ. FT. - 60% KENTUCKY BLUEGRASS, 18% CREEPING RED FESCUE, 22% ANNUAL RYEGRASS.

13. TRAFFIC CONTROL:

THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL REQUIRED TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES OR GOVERNING LOCAL AGENCIES.

14. CONSTRUCTION STAKING:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING NEEDED TO COMPLETE ALL THE CONSTRUCTION SHOWN HEREON. COORDINATE WITH VERIZON WIRELESS CONSTRUCTION MANAGER. CONTACT DESIGN ENGINEER TO SCHEDULE CONSTRUCTION STAKING.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO PAVEMENT, FINISHED GRADES, LANDSCAPING, BUILDINGS, SURVEY MARKERS, FIELD TILES, CULVERTS, ETC.

16. IN THE EVENT ANY DISCREPANCIES OR ERRORS ARE FOUND ON THESE PLANS OR ANY CONFLICT OR PROBLEMS ARE ENCOUNTERED DURING CONSTRUCTION, THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE GENERAL CONTRACTOR OR VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) FOR WORK HAVING TO BE REDONE FOR GRADE OR GEOMETRIC DISCREPANCIES IF NOTICE TO THE ENGINEER HAS NOT BEEN PROVIDED. THE ENGINEER RESERVES THE RIGHT TO MAKE MINOR ADJUSTMENTS AS NECESSARY TO ACCOMPLISH THE INTENT OF THESE PLANS.

17. ALL SITE WORK AND CONSTRUCTION SHALL CONFORM TO ANY AND ALL APPLICABLE CODES AND VERIZON WIRELESS STANDARDS AND SPECIFICATIONS.

18. ALL ELEVATIONS AND TOPOGRAPHIC INFORMATION WAS TAKEN FROM A SURVEY SUPPLIED TO GPD GROUP PROFESSIONAL CORPORATION BY WILLIAMS & WORKS. GPD GROUP PROFESSIONAL CORPORATION HAS NOT VERIFIED THIS INFORMATION AND DOES NOT WARRANT ANY INFORMATION SUPPLIED BY OTHERS.

19. THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AS-BUILT SET OF PLANS AND CONDITIONS AS REQUIRED BY THE TOWER OWNER, AND SUBMIT SAME TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION. AS-BUILT PLANS SUBMITTED TO THE ENGINEER SHALL INCLUDE A DRAWING WITH DIMENSIONS SHOWING THE LOCATION OF THE UNDERGROUND UTILITIES, GROUNDING GRID, EQUIPMENT PAD, TOWER FOUNDATION, TOWER PLATFORM ORIENTATION, AND FENCE WITHIN THE LEASE AREA OR PROPERTY AND BE CERTIFIED BY A LICENSED PROFESSIONAL SURVEYOR.

20. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION.

21. THE GENERAL CONTRACTOR AND VERIZON WIRELESS GENERAL CONTRACTOR (VZW GC) SHALL BE RESPONSIBLE FOR NOTIFICATION AND COORDINATION OF ALL TESTING AGENCIES THAT REQUIRE SITE INSPECTION OR TESTING OF THE WORK AS DIRECTED IN THESE PLANS, GOVERNING AGENCIES AND ALL APPLICABLE CODES.

22. PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION. CHECK ALL CONSTRUCTION DOCUMENTS TO INCLUDE, BUT NOT LIMITED TO, GEOTECHNICAL REPORT, STRUCTURAL ANALYSIS, TOWER, MECHANICAL AND ELECTRICAL DRAWINGS, FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

24. WORK SITE SAFETY:

A. CONSTRUCTION WORK PRESENTS UNIQUE THREATS TO HEALTH AND SAFETY. THE CONTRACTOR AND VERIZON WIRELESS CONTRACTOR (VZW GC) ARE RESPONSIBLE TO EDUCATE THEIR WORK FORCE OF THESE DANGERS AND LIMIT THEIR EXPOSURE TO HAZARDS. THIS EDUCATION SHALL INCLUDE BUT NOT BE LIMITED TO APPLICABLE TRAINING COURSES AND CERTIFICATIONS, PROPER PERSONAL PROTECTIVE EQUIPMENT USAGE, DAILY TAILGATE MEETINGS AND ANY OTHER PREVENTATIVE MEASURES WHICH MAY BE REASONABLY EXPECTED. THE CONTRACTOR, VERIZON WIRELESS CONTRACTOR (VZW GC) AND ALL SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY PROPERTY OCCUPANTS WHO MAY BE AFFECTED BY THE WORK UNDER CONTRACT. ALL CONTRACTORS SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.

B. TOWER WORK PRESENTS ADDITIONAL THREATS TO HEALTH AND SAFETY. ALL TOWER WORKERS WORKING ON A TOWER MUST BE ADEQUATELY TRAINED AND MONITORED TO ENSURE THAT SAFE WORK PRACTICES ARE LEARNED AND FOLLOWED. AS REQUIRED BY OSHA, WHEN WORKING ON EXISTING COMMUNICATION TOWERS, EMPLOYEES MUST BE PROVIDED WITH APPROPRIATE FALL PROTECTION, TRAINED TO USE THIS FALL PROTECTION PROPERLY, AND THE USE OF FALL PROTECTION MUST BE CONSISTENTLY SUPERVISED AND ENFORCED BY THE CONTRACTOR.

C. ALL SAFETY EQUIPMENT SHALL BE INSPECTED ACCORDING TO ALL OSHA AND INDUSTRY SCHEDULED INTERVALS AND ALL INSPECTIONS SHALL BE DOCUMENTED PER APPLICABLE CODES AND STANDARDS.

D. ALL ANCHORS, CONNECTORS, CLAMPS, TIE WRAPS, ETC. WHEN FIELD CUT SHALL BE DONE SO WITH APPROVED CUTTING TOOLS TO REMOVE ALL SHARP EDGES AND BURRS.

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HORVATH COMMUNICATIONS
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REV.	DATE	DESCRIPTION
A	07/28/26	ISSUED FOR 90% REVIEW
B	10/27/26	SHIFTED LEASE AREA
C	11/02/26	REVISED PER COMMENTS

PRELIMINARY DRAFT
NOT FOR CONSTRUCTION, BID, RELIANCE, RECORDING PURPOSES OR IMPLEMENTATION

LINCOLN STREET
13113 24TH AVENUE
MARNE, MI 49435

GENERAL CONSTRUCTION NOTES

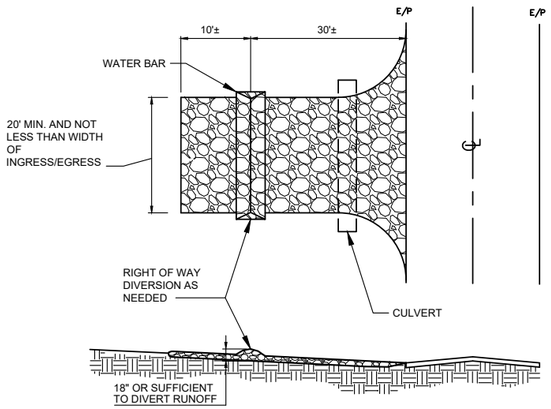
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REVIEW	--/--/--
PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
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C-5

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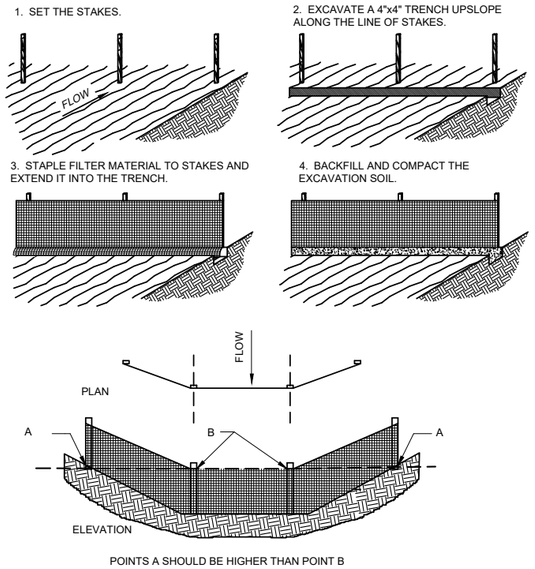
NOTES:

1. STONE SIZE - TWO INCH STONE SHALL BE USED, OR RECYCLED CONCRETE EQUIVALENT.
2. THE CONSTRUCTION ENTRANCE SHALL COINCIDE WITH THE PROPOSED DRIVE AS SHOWN ON THE PLAN.
3. PAVEMENT THICKNESS - STONE LAYER SHALL BE AT LEAST 6" THICK.
4. DRIVEWAY WIDTH - THE ENTRANCE SHALL BE AT LEAST 10' WIDE, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS/EGRESS OCCURS.
5. BEDDING - A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LBS. AND A MULLEN BURST STRENGTH OF AT LEAST 190 LBS.
6. CULVERT - A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
7. WATER BAR - A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
8. MAINTENANCE - TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND, MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF OS NOT CHECKED BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY, REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
9. CONSTRUCTIONS ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION SHALL BE RESTRICTED FROM MUDDY AREAS.

TEMPORARY STABILIZED CONSTRUCTION ENTRANCE

1 / C-6

SCALE: N.T.S.



POINTS A SHOULD BE HIGHER THAN POINT B

SILT FENCE DETAIL

2 / C-6

SCALE: N.T.S.

EROSION & SEDIMENT CONTROL NOTES

1. ALL WORK SPECIFIED AS A/AN DOT ITEM SHALL BE GOVERNED BY THE STATE OF INDIANA OF DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATION HANDBOOK. IT IS CONTRACTORS RESPONSIBILITY TO POSSESS AND BE FAMILIAR WITH APPLICABLE SECTIONS.
2. THIS CONTRACT DRAWING SHALL BE MADE AVAILABLE ON SITE AT ALL TIMES AND PRESENTED UPON REQUEST. IF UNFORESEEN STORM WATER POLLUTION PREVENTION IS ENCOUNTERED, ADDITIONAL STORM WATER POLLUTION PREVENTION (SWPP) MEASURES MAY BE REQUESTED BY THE OWNER, COUNTY ENGINEER, PROJECT ENGINEER OR SOIL CONSERVATION SERVICE REPRESENTATIVE AT ANYTIME. SUCH REQUESTS SHALL BE IMPLEMENTED IMMEDIATELY AT CONTRACTOR'S EXPENSE.
3. ALL STORM WATER POLLUTION PREVENTION ITEMS SHALL BE INSTALLED AS SHOWN OR NOTED ON THIS SHEET.
4. PLANT TEMPORARY SEEDING AND MULCHING IN ALL AREAS THAT SHALL BE INACTIVE FOR 7 DAYS OR MORE. ALL DISTURBED AND ERODED EARTH SHALL BE REGRADED AND SEEDED WITHIN 14 DAYS WITH SEEDING, AS DEFINED ABOVE AND AS SHOWN ON THE TABLE BELOW. TO ESTABLISH STABILITY AND PROVIDE SEDIMENT CONTROL, WHERE POSSIBLE. TEMPORARY SEEDING GROWTH SHALL NOT BE MOWED UNTIL IT HAS GONE TO SEED FOR 1 YEAR.

SEEDING

RESTORATION OF ALL DISTURBED AREAS, INCLUDING PLACEMENT OF 4 INCHES OF TOPSOIL, SEED, FERTILIZER AND MULCH AND/OR SOD, SHALL BE DONE WITHIN 5 DAYS OF THE COMPLETION OF FINAL GRADING. MINIMUM SEEDING REQUIREMENTS CONSIST OF 200 LBS/ACRE OF SEED, 500 LBS/ACRE OF 10/10/10 ANALYSIS FERTILIZER (OR EQUAL) AND STRAW MULCH AT A RATE OF 1.5 TONS/ACRE (OR EQUIVALENT)

5. PERMANENT VEGETATION SHALL BE INSTALLED WITHIN 10 DAYS AT THE COMPLETION OF ANY GRADED AREAS, WEATHER PERMITTING. ALL PERMANENT VEGETATION SHALL CONSIST OF PLANTING AND SOD
6. AT SUCH TIME ROUGH GRADING OF THE SITE IS COMPLETE AND DRAINAGE DIVERTS TO INLETS, INLET SEDIMENT FILTERS SHALL BE INSTALLED AT ALL INLET STRUCTURES TO KEEP PIPING SYSTEMS FREE OF SILTATION.
7. SILT BARRIERS SHALL BE INSTALLED AROUND ALL EXISTING OR NEW STORM INLETS, CATCH BASINS, AND YARD DRAINS. INSTALL ROCK CHECK DAMS FOR HEADWALL INLETS FOR STORM WATER POLLUTION PREVENTION.
8. STORM WATER POLLUTION PREVENTION MEASURES SHALL BE INSTALLED OR TOPSOIL STOCKPILES AND OTHER TEMPORARILY DISTURBED AREAS AS SHOWN ON THESE PLANS AND AS DIRECTED BY THE ENGINEER.
9. CONTRACTOR SHALL INSPECT ALL SWPP MEASURES DAILY AND REPAIR AS NECESSARY TO PREVENT EROSION. SILTATION SHALL BE REMOVED FROM AREAS WHERE FAILURES HAVE OCCURRED AND CORRECTIVE ACTION TAKEN WITHIN 24 HOURS TO MAINTAIN ALL SWPP.
10. SILT BARRIERS, CONSTRUCTION ENTRANCES, AND SILT FENCES SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF GRASS HAS BEEN OBTAINED AND/OR PAVING OPERATIONS ARE COMPLETE. CONTRACTOR SHALL KEEP SILT FROM ENTERING ANY STORM DRAINAGE SYSTEM. ONCE SITE HAS BEEN COMPLETELY STABILIZED, ANY SILT IN PIPES AND DRAINAGE SWALES SHALL BE REMOVED WITHIN 10 DAYS.
11. TEMPORARY SEDIMENTATION AND STORM WATER POLLUTION PREVENTION MEASURES MUST BE INSPECTED AND LOGGED BY THE CONTRACTOR FOR INSPECTION, LOGGING SHALL BE WEEKLY AND AFTER RAIN STORMS.
12. UTILITY COMPANIES MUST COMPLY WITH ALL STORM WATER POLLUTION PREVENTION MEASURES AS DEFINED ON THE STORM WATER PREVENTION PLANS, DETAILS AND NOTES.
13. THE TOTAL AREA OF DISTURBANCE FOR THIS PROJECT IS APPROXIMATELY 0.96 ACRES.
14. ALL EXISTING WATER COURSES WITHIN THE PROJECT LIMITS SHALL BE TEMPORARILY PROTECTED DURING LAND CLEARING AND GRADING OPERATIONS. SOILS WITHIN 50 FEET OF SAID WATER COURSES SHALL BE STABILIZED WITHIN 2 DAYS OF THE INITIAL CLEARING / GRADING OPERATION AS SHOWN ON PLANS.
15. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ALL SEDIMENTATION AND STORM WATER POLLUTION PREVENTION ITEMS AT ALL TIMES.
17. ALL STORM WATER POLLUTION PREVENTION PRACTICES WILL BE INSTALLED BEFORE ANY OTHER EARTH MOVING OCCURS.
18. THE FOLLOWING STORM WATER POLLUTION PREVENTION AND SEDIMENT CONTROL MEASURES WILL BE USED ON THIS SITE:
    1. SILT BARRIERS
    2. SILT FENCE
    3. CONSTRUCTION ENTRANCE
    4. EROSION CONTROL SEED BLANKETS - SPEC FOR TEMPORARY EROSION CONTROL BLANKETS ON SLOPES/DITCHES

CONSTRUCTION SEQUENCE

1. STAKE AND/OR FLAG LIMITS OF CLEARING
2. DURING PRECONSTRUCTION MEETING ALL EROSION & SEDIMENT CONTROL FACILITIES & PROCEDURES SHALL BE DISCUSSED.
3. CLEARING & GRUBBING, AS NECESSARY, FOR INSTALLATION OF PERIMETER CONTROLS.
4. INSTALL SILT FENCE PERIMETER CONTROLS AS SHOWN ON PLANS.
5. INSTALL CONSTRUCTION ENTRANCE, IF CONDITIONS ARE SUCH THAT MUD IS COLLECTION ON VEHICLE TIRES, THE TIRES MUST BE CLEANED BEFORE THE VEHICLES ENTER THE PUBLIC ROADWAY. THE SITE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING OR FLOW OF MUD INTO THE PUBLIC RIGHT-OF-WAY. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE ROADWAY MUST BE REMOVED PROMPTLY.
6. CLEARING & GRUBBING THE REMAINING SITE AS NECESSARY.
7. BEGIN FILLING & GRADING AS REQUIRED TO REACH SUBGRADE.
8. CONSTRUCT AND MAINTAIN TEMPORARY DRAINAGE SWALES DURING FILLING AND GRADING ACTIVITIES.
9. CONSTRUCT SITE WORK INCLUDING STORM DRAINAGE FACILITIES.
10. MAINTAIN EROSION & SEDIMENTATION CONTROL MEASURES UNTIL THE SITE HAS BEEN COMPLETELY STABILIZED.
11. REMOVE SEDIMENT CONTROLS.

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LINCOLN STREET
13113 24TH AVENUE
MARNE, MI 49435

BEST MANAGEMENT PRACTICES & EROSION CONTROL DETAILS & NOTES

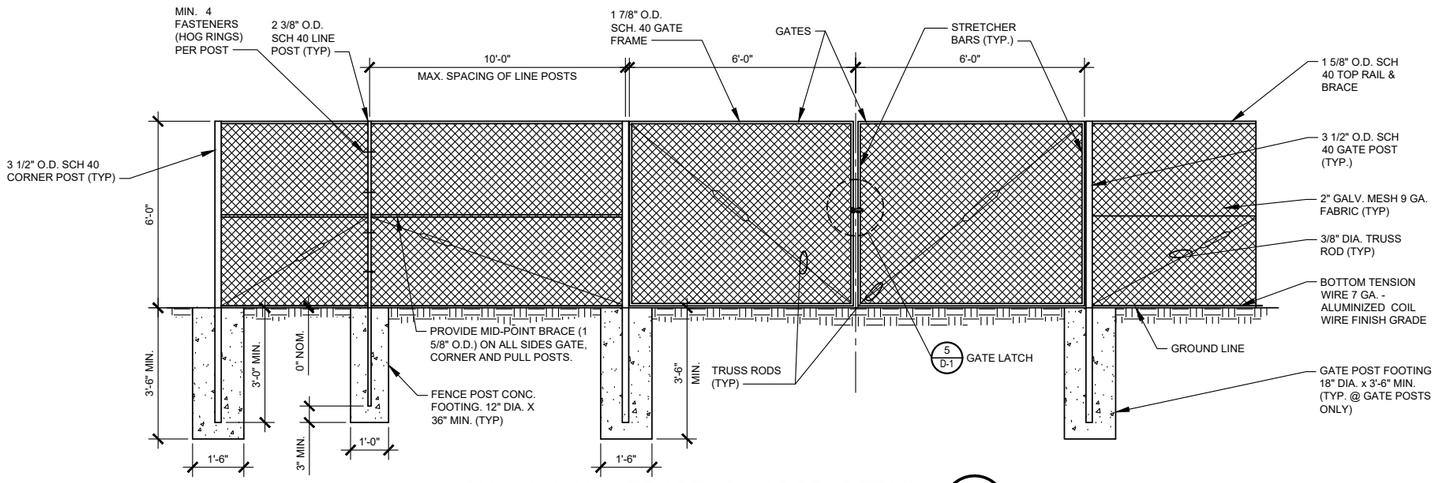
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PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
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C-6

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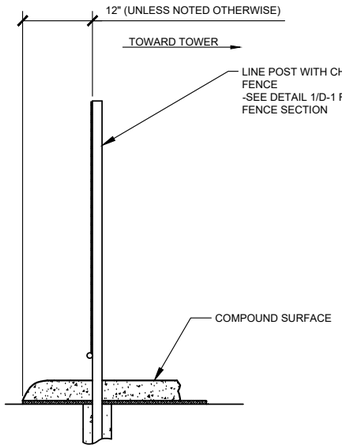


CHAIN LINK FENCE & POST DETAIL 1 D–1

SCALE: N.T.S.

CHAIN LINK FENCING NOTES

1. ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
2. BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
3. SITE FENCE SHALL BE 6'-0" FABRIC.
4. BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE). WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 8", PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN.)
5. PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
6. ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
7. CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
8. ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14a AND CHAIN LINK FENCE MANUFACTURES INSTITUTE CLFMI-PM 2445.
9. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



SITE AREA SURFACING 2 D–1

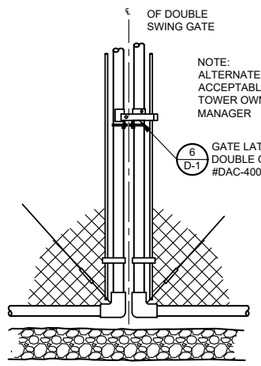
SCALE: N.T.S.

DETAIL NOT USED 3 D–1

SCALE: N.T.S.

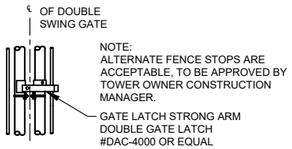
DETAIL NOT USED 4 D–1

SCALE: N.T.S.



GATE LATCH DETAIL 5 D–1

SCALE: N.T.S.



GATE LATCH DETAIL 6 D–1

SCALE: N.T.S.

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FENCE DETAILS AND NOTES

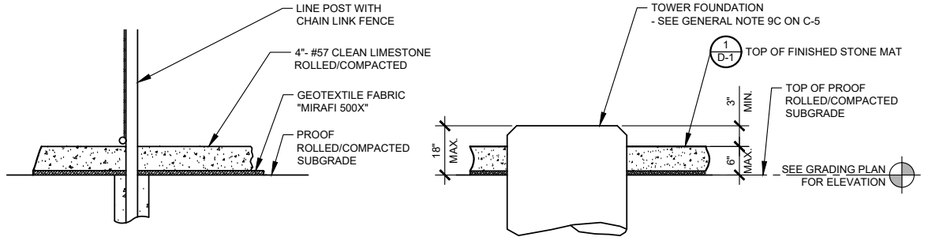
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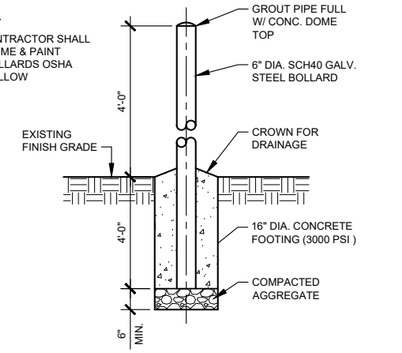
D-1

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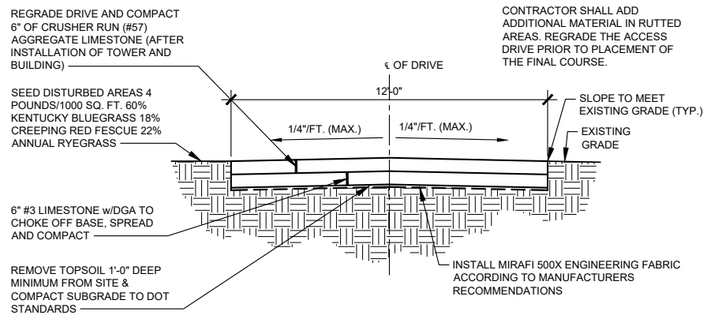
PARTIAL COMPOUND SECTION 1 D-2

SCALE: N.T.S.



BOLLARD DETAIL 4 D-2

SCALE: N.T.S.

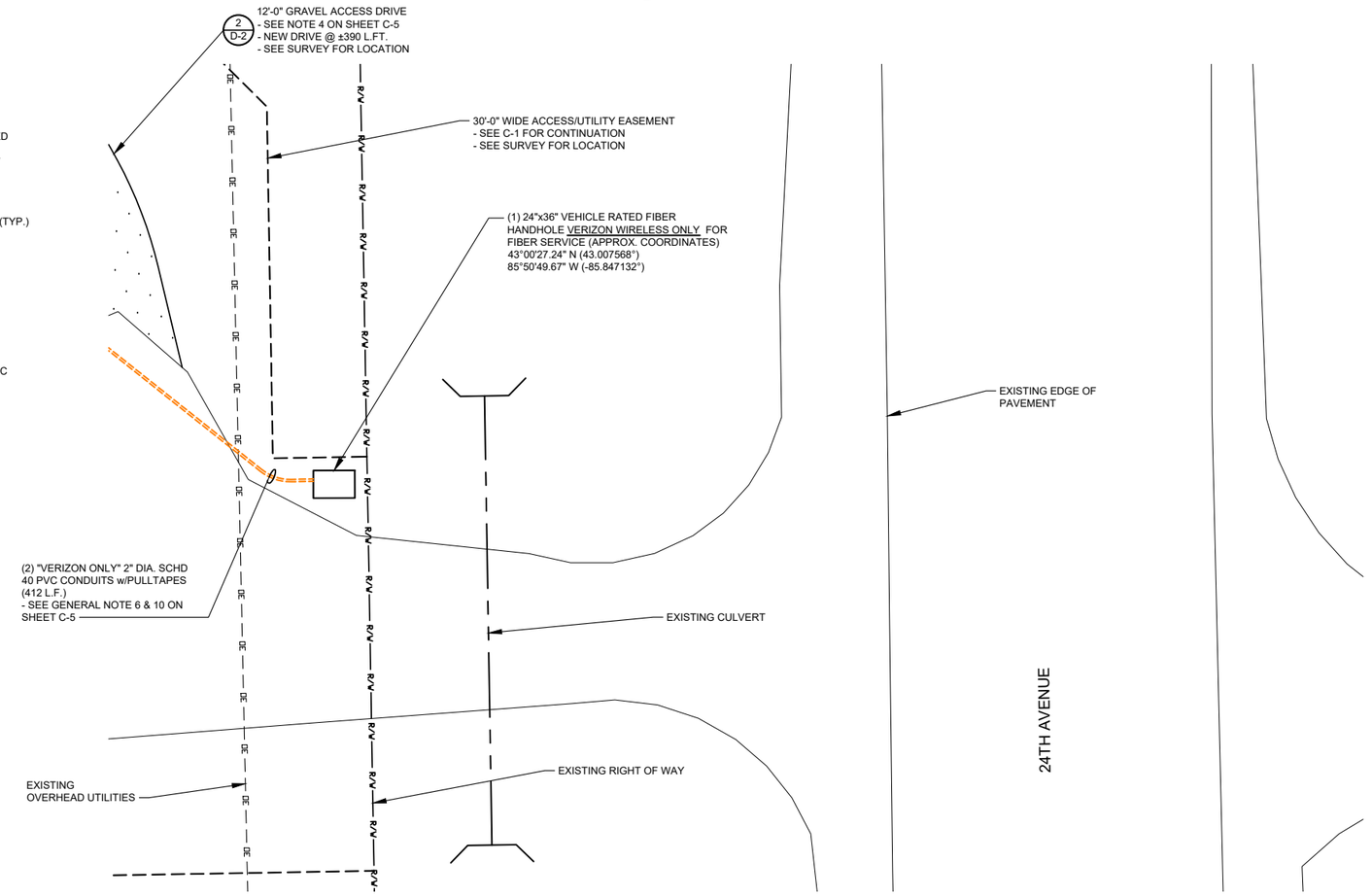


ACCESS DRIVE TYPICAL SECTION 2 D-2

SCALE: N.T.S.

DETAIL NOT USED 3 D-2

SCALE: N.T.S.



ENLARGED FIBER HAND HOLE PLAN AT R.O.W. 5 D-2

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

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SITE DETAILS

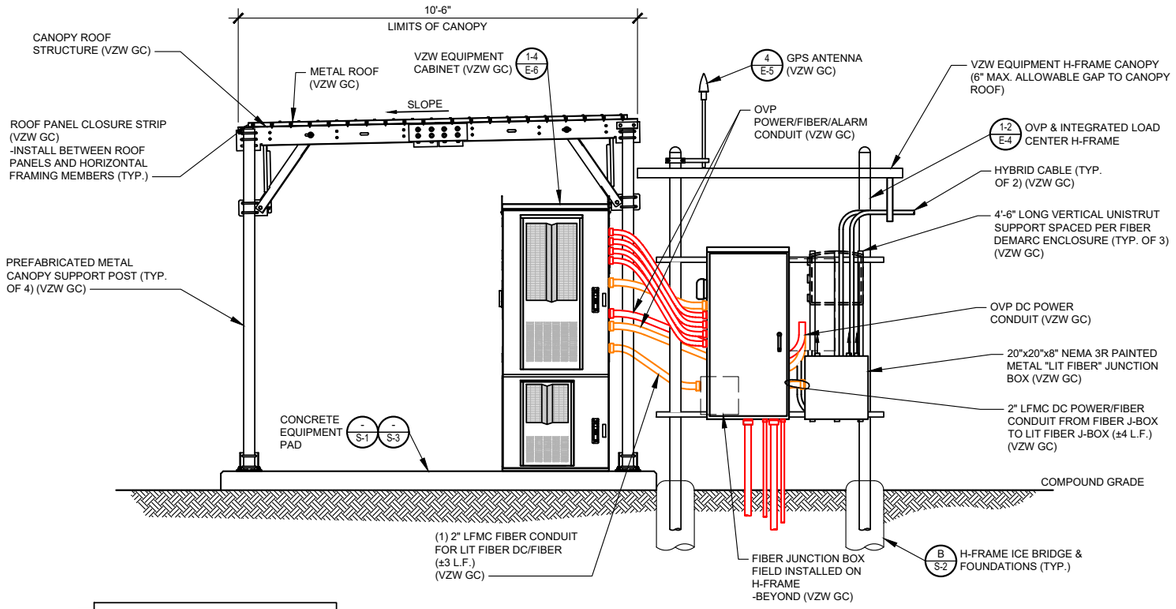
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NOTE:

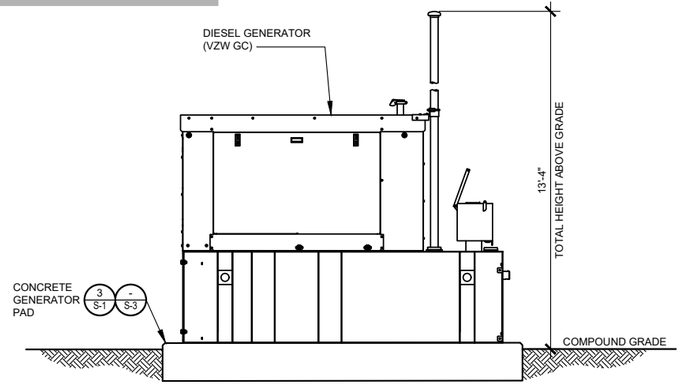
VERIZON WIRELESS 6'-6"x10'-6" RADIO EQUIPMENT CANOPY (CANOPY DWGS. SUPPLIED BY MANUFACTURER) (VZW GC)
-COMMSCOPE P/N 860676982-001

FRONT ELEVATION

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

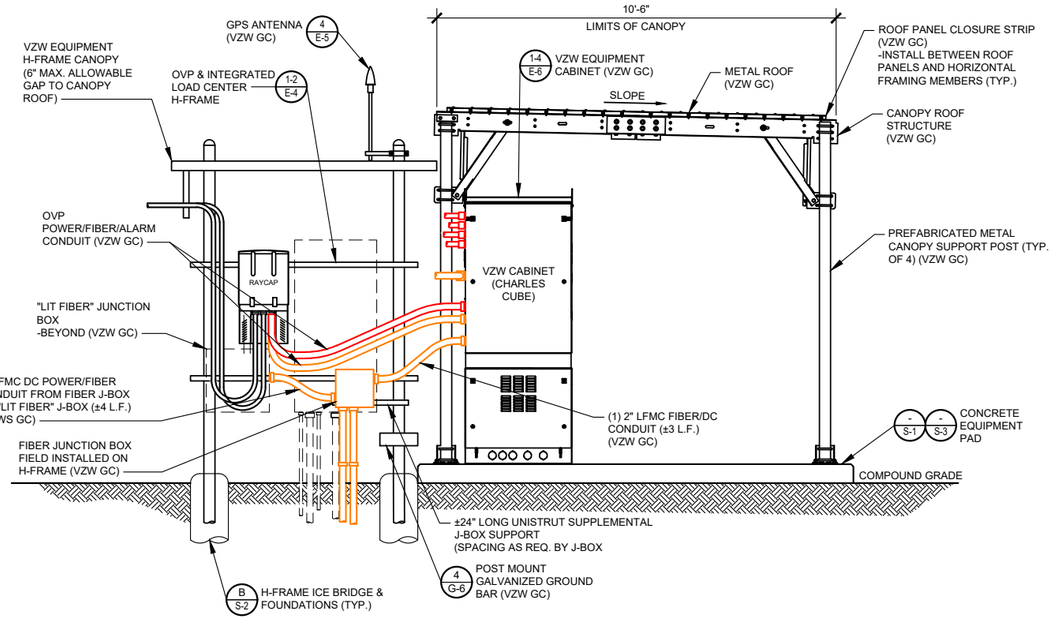
NOTE:

CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1.7lb DENSITY POLYETHYLENE FOAM PANEL CLOSURE STRIPS TO MATCH PROFILE. AS MANUFACTURED BY: SEALTITE BUILDING FASTENERS "ST CLOSURE" STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)



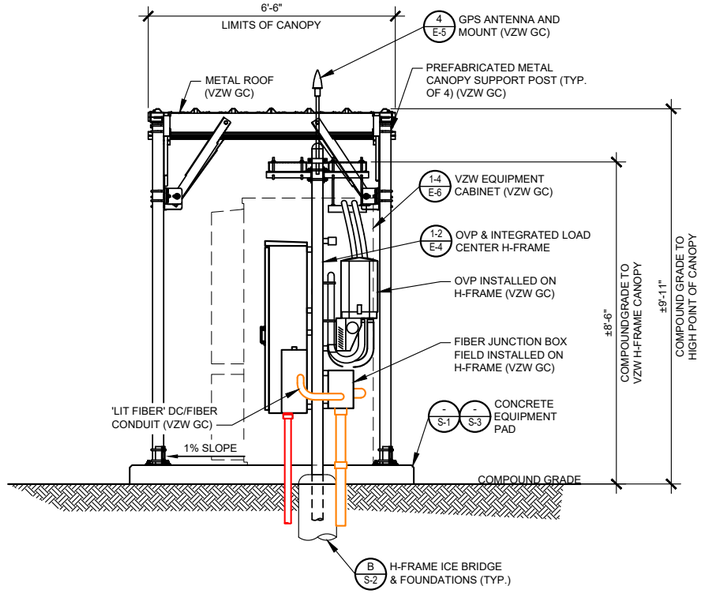
GENERATOR ELEVATION

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



REAR ELEVATION

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



RIGHT ELEVATION

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

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EQUIPMENT PAD & CANOPY ELEVATIONS

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TTP	SEK

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STANDARD SITE SIGNAGE:

	REQUIRED SIGNS:	LOCATIONS:
C1	• N.O.C. "IN CASE OF EMERGENCY"	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
C2	• NOTICE (CONTACT INFO)	
C3	• COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C4	• COMBINATION WARNING (SEE NOTE 2)	
C5	• S.D.S.	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES

-N.O.C. STANDS FOR "NETWORK OPERATIONS CENTER"
-S.D.S. STANDS FOR "SAFETY DATA SHEET"

NOTES:

1. CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
2. CONTRACTOR SHALL INSTALL SIGN C3 OR C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.

C1



C2



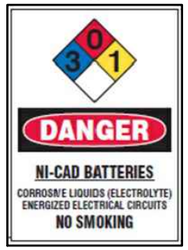
C5



C3



C4





FRONT



REAR

SIGNAGE FOR EACH GENERATOR FUEL TYPE:

DIESEL GENERATOR

	REQUIRED SIGNS:	LOCATIONS:
D1	• "DANGER DIESEL FUEL"	INSTALL ON GENERATOR (SEE FIGURE 6)
D2	• HAZARD DIAMOND	
D3	• NOTICE SIGN	
D4	• FUEL TANK CAPACITY	INSTALL ON FUEL TANK

*SIGNS D1 AND D2 MAY BE COMBINED TO A SINGLE SIGN

D1



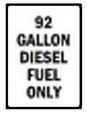
D2



D3



D4



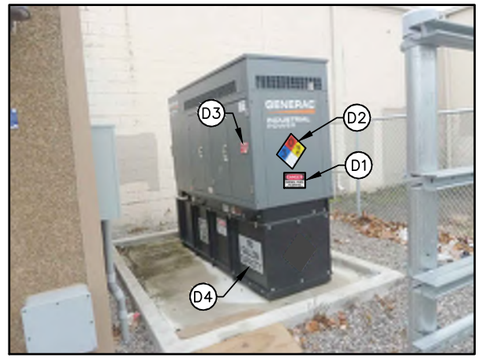


FIGURE 6 - DIESEL GENERATOR SIGNAGE

E.M.E. SIGNAGE NOTES:

VZW GC SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY E.M.E. SIGNAGE, IF REQUIRED. ANY REQUIRED E.M.E. SIGNAGE WILL BE INSTALLED IN ACCORDANCE WITH THE SITE SPECIFIC PRE-E.M.E. REPORT AND MOUNT AS APPROPRIATE FOR THE SIGN LOCATION.

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VERIZON WIRELESS
SIGNAGE
(REFERENCE ONLY)

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RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

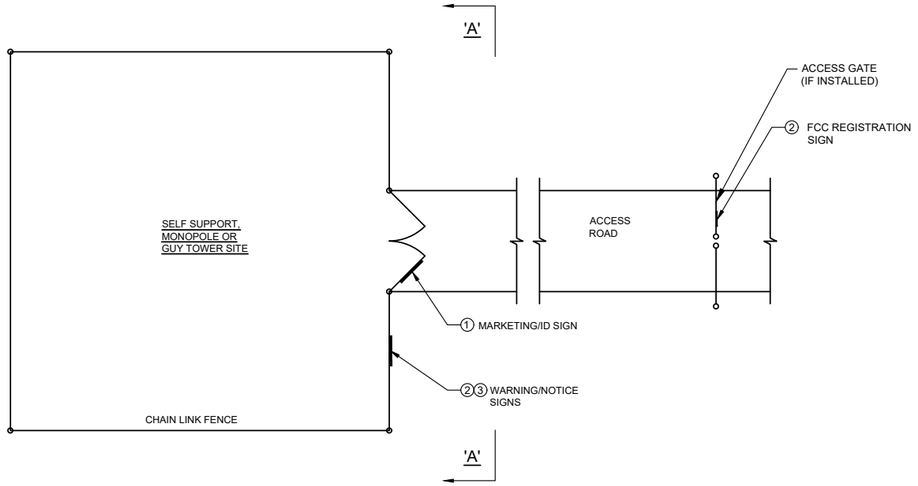
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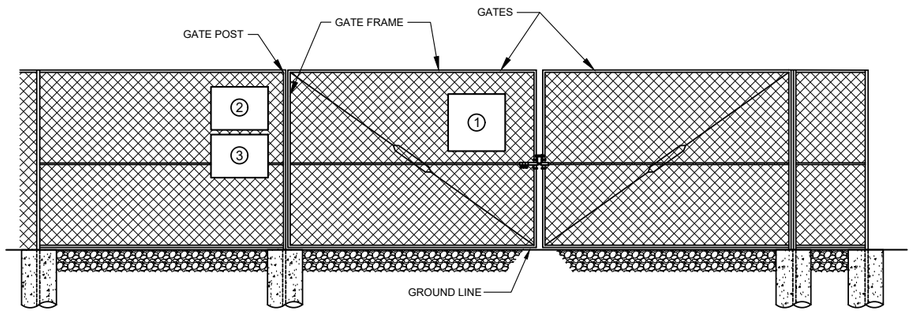
NOTES:

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONELL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATION POLICY.



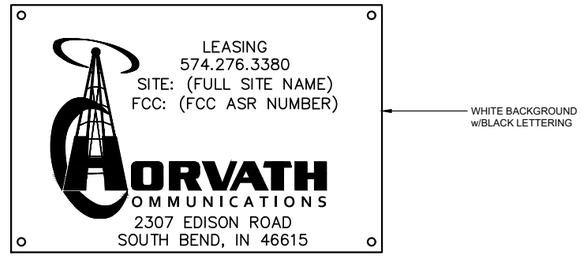
TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



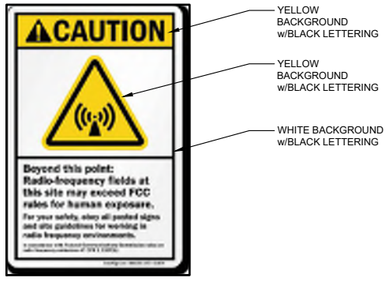
ELEVATION "A–A"

SCALE: N. T. S.



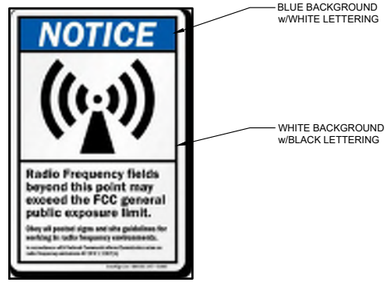
MARKETING/ID SIGN 1

18" WIDE x 12" HIGH



WARNING–RF SIGN (YELLOW) 2

12" WIDE x 18" HIGH



NOTICE–RF SIGN (BLUE) 3

12" WIDE x 18" HIGH

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TOWER OWNER SITE
FENCE SIGNAGE
(REFREFENCE ONLY)

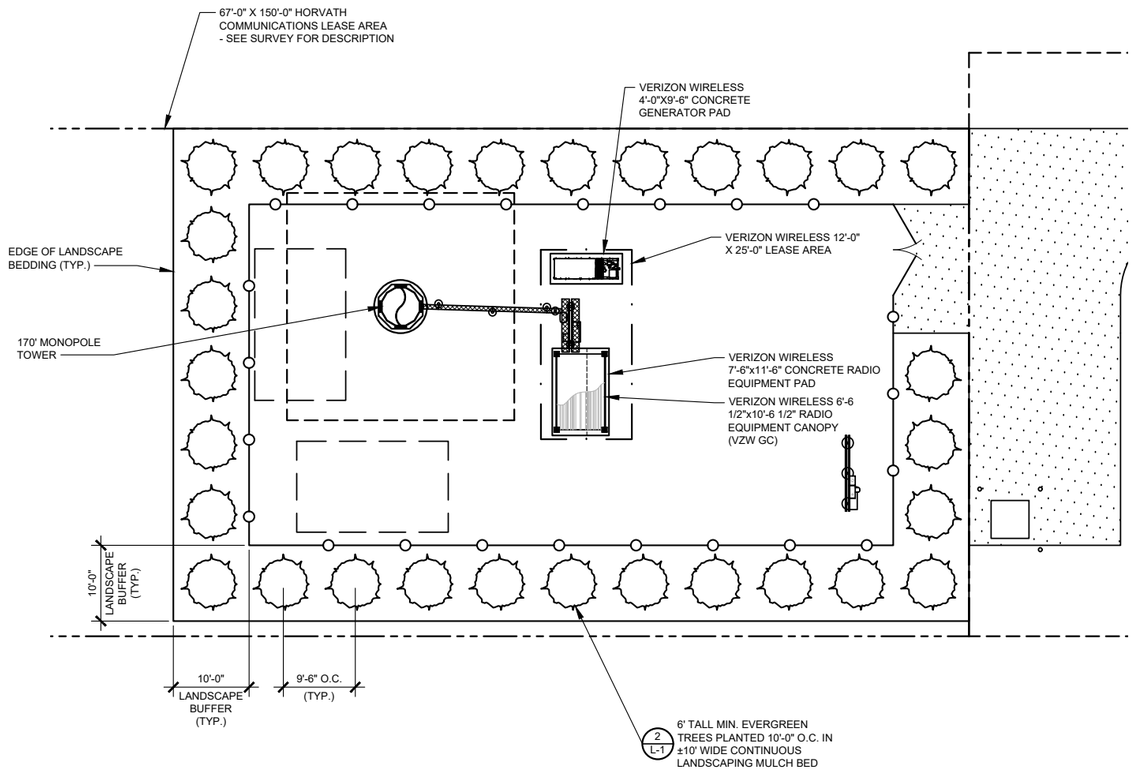
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GRAPHIC SCALE

20 0 10 20 40

LANDSCAPE PLAN

SCALE: 1" = 20'

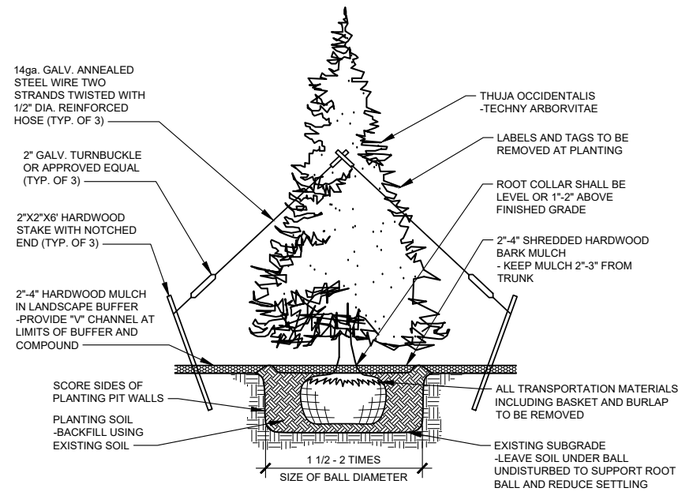
1 L-1

NORTH

LANDSCAPING CONTRACTOR NOTES

1. THE CONTRACTOR SHALL VISIT THE SITE & BECOME COMPLETELY FAMILIAR WITH ALL EXISTING CONDITIONS AND EROSION CONTROL MEASURES PRIOR TO STARTING WORK.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS COMPLETE IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL COMPLY WITH ALL BUILDING CODES, INSPECTIONS AND SAFETY REGULATIONS, AND PROVIDE ALL NECESSARY PERMITS. THE CONTRACTOR SHALL HAVE ALL NECESSARY LOCAL, STATE & FEDERAL LICENSE REQUIRED. UPON REQUEST, THE CONTRACTOR SHALL SHOW EVIDENCE OF WORKERS COMPENSATION COVERAGE AND LIABILITY POLICY.
4. THE CONTRACTOR SHALL GUARANTEE ALL PLANTS TO BE IN A HEALTHY, VIGOROUS CONDITION (INCLUDING WATERING AND UPKEEP) FOR A PERIOD OF ONE (1) YEAR FOLLOWING ACCEPTANCE BY OWNER AND/OR PROJECT REPRESENTATIVE. THE CONTRACTOR SHALL REPLACE WITHOUT COST TO OWNER, ANY DEAD OR SERIOUSLY DECLINING PLANTS. REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.
5. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE; HAND EXCAVATE AS REQUIRED.
6. ALL LANDSCAPE/PLANTING AREAS SHALL HAVE PROPER DRAINAGE THAT PREVENTS EXCESS WATER FROM STANDING AROUND TREES AND SHRUBS. IT IS INTENDED THAT THIS SITE WILL MATCH EXISTING GROUND ELEVATIONS AND WILL MAINTAIN EXISTING DRAINAGE PATTERNS WHERE APPLICABLE.
7. THE CONTRACTOR SHALL PROVIDE PLANT MATERIAL OF THE SIZE & TYPE SPECIFIED, IF SUBSTITUTIONS ARE PROPOSED, THEY MUST BE APPROVED BY TOWER OWNER. ALL PLANT MATERIAL SHALL BE FREE OF DISEASE, INSECTS AND DEFECTS SUCH AS BUT NOT LIMITED TO KNOTS, SUN-SCALD, INJURIES, ABRASIONS AND DISFIGUREMENT. APPROVAL OF PLANT MATERIAL AT THE SOURCE DOES NOT ALTER THE RIGHT OF REJECTION AT PROJECT. ALL PLANT MATERIAL SHALL COMPLY WITH THE CURRENT ISSUE OF "ASSOCIATION OF AMERICAN STANDARD" FOR NURSERY STOCK PUBLISHED BY THE "AMERICAN ASSOCIATION OF NURSERYMEN".
8. THE CONTRACTOR SHALL PROVIDE A FINISHED GRADE THAT SHALL BE REASONABLY SMOOTH, COMPACTED AND FREE OF ANY IRREGULAR SURFACE CHANGE. THE CONTRACTOR SHALL SLOPE ALL PLANTING BEDS AND LAWN AREAS TO CAUSE RUN-OFF TO FLOW AWAY FROM BUILDING AND PAVING.
9. THE CONTRACTOR SHALL BACKFILL ALL PLANT MATERIAL WITH SHREDDED TOPSOIL AND PEAT MOSS AS REQUIRED FOR THE BED PREPARATION.
10. THE LANDSCAPING CONTRACTOR SHALL USE SOME TYPE OF HARDWOOD MULCH.
    - THE FINISHED DEPTH OF MULCH MUST BE AT LEAST 2" AND NO MORE THAN 3".
    - THE MULCH SHALL BE NON-DYED, NATURAL DOUBLE SHREDDED HARDWOOD MULCH.
    - PRIOR TO MULCHING THE CONTRACTOR SHALL APPLY A PRE-EMERGENT HERBICIDE TO AID IN WEED CONTROL. READ WARNING LABEL BEFORE APPLYING. WATER ALL TREES IMMEDIATELY OR WITHIN 16 HOURS AFTER INSTALLATION
    - THE CONTRACTOR SHALL INSTALL LANDSCAPING FABRIC AFTER APPLICATION OF PRE-EMERGENT HERBICIDE AND PRIOR TO MULCH INSTALLATION..
11. PLANTING SOIL MIX - SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOP SOIL.
12. ALL PLANTS SHALL BE HEALTHY, OF NORMAL GROWTH, WELL ROOTED, FREE FROM DISEASE AND INSECTS. QUALITY AND SIZE OF PLANT MATERIAL SHALL CONFORM TO ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".
13. MAINTAIN TREES BY PRUNING, CULTIVATING, AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. RESTORE PLANTING SAUCERS. RESET TREES TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.

SYMBOL	QUANTITY	PLANT NAME	BOTANICAL NAME	COMMENTS/SPECIFICATIONS
	30	TECHNY ARBORVITAE EVERGREEN TREE	THUJA OCCIDENTALIS	6 FEET HEIGHT MINIMUM (BALLED & BURLAPPED)



NOTE:
CONTRACTOR SHALL GUARANTEE ALL NEWLY PLANTED AND RELOCATED TREES FOR A MINIMUM OF 1 YEAR AFTER COMPLETION OF PROJECT. GUARANTEE SHALL BE FOR FULL REPLACEMENT OF LOST PLANTS.

EVERGREEN TREE PLANTING

SCALE: N.T.S.

2 L-1

811 Know what's below. Call before you dig.

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MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

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LINCOLN STREET
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MARNE, MI 49435

LANDSCAPE PLAN, DETAILS AND NOTES

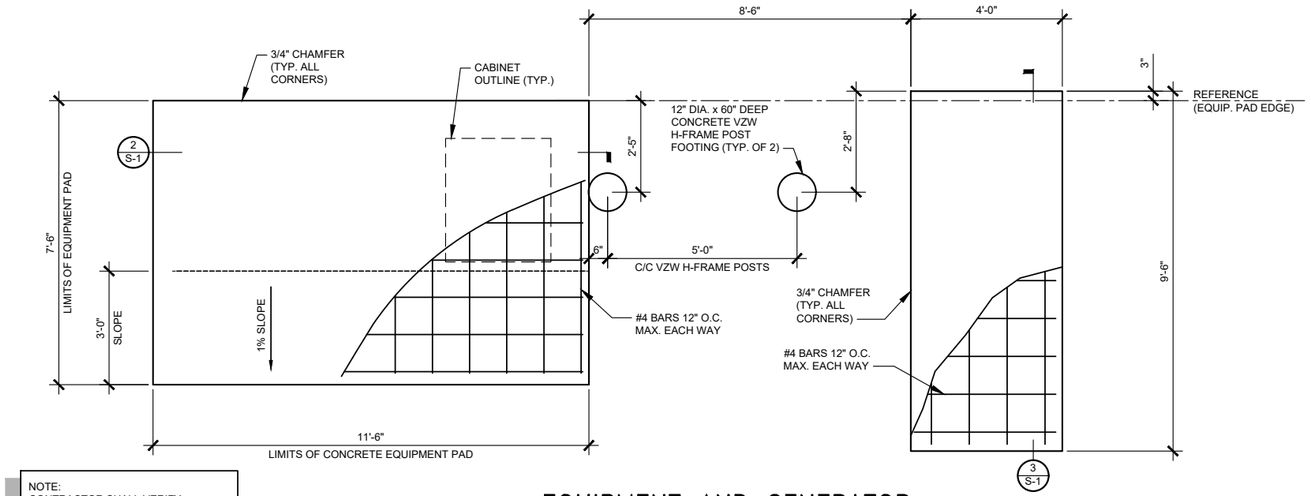
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CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

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2026705.53

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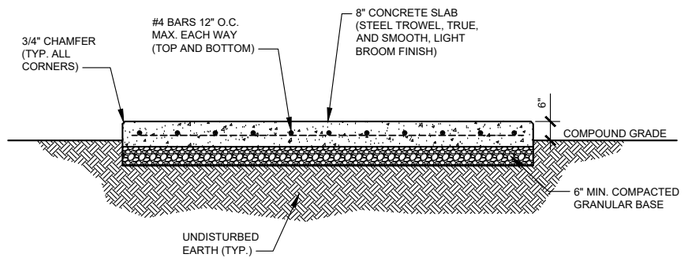
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NOTE:
CONTRACTOR SHALL VERIFY CONDUIT STUB-UP LOCATIONS WITH VERIZON WIRELESS SPECIFIED GENERATOR PRIOR TO INSTALLATION

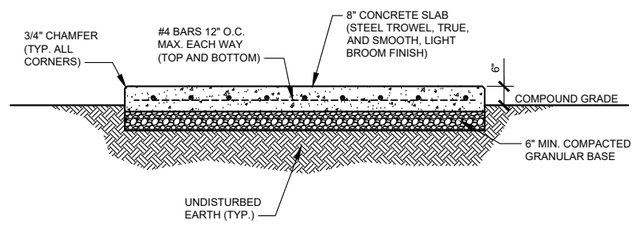
EQUIPMENT AND GENERATOR PAD FOUNDATIONS PLAN 1 S-1

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



EQUIPMENT PAD FOUNDATION SECTION 2 S-1

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



GENERATOR PAD FOUNDATION SECTION 3 S-1

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

STRUCTURAL NOTES

1. CANOPY SYSTEM DESIGN LOADINGS:

ROOF SNOW LOAD	60 PSF
DEAD LOADS	ACTUAL MATERIAL WEIGHTS
BASIC WIND SPEED	110 MPH

DESIGN CODES
BUILDINGS AND OTHER STRUCTURES: ASCE 7-10, ASCE 7-16
ANTENNA SUPPORTS, RELATED APPURTENANCES AND TOWERS: TIA-5053, TIA-222-H AND TIA-222-G

2. BUILDING FOUNDATION SYSTEM:

THE SUBSURFACE REPORT WAS PROVIDED BY XYZ ENGINEERING, INC., DATED MONTH DAY, YEAR.

ALLOWABLE BEARING CAPACITY BLDG. FOOTINGS **** PSF

ALL CONTRACTORS SHALL EXERCISE GREAT CARE DURING EXCAVATION. ALL CONTRACTORS SHALL PREDETERMINE UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY IF DEVIATION FROM PLANS EXIST.

THE SUBSURFACE REPORT IS NOT TO BE CONSIDERED AS A COMPLETE RECORD OF THE EXISTING CONDITIONS AT THE SITE. THE CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS, INCLUDING SUBSURFACE CONDITIONS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO SITE ENTRY FOR THE PURPOSE OF CONDUCTING SOIL TESTING AND VERIFICATION OF EXISTING CONDITIONS.

FOUNDATION SUBGRADES SHALL BE HAND TRIMMED AND COMPACTED. ALL BACKFILL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D-1557.

3. CONCRETE WORK:

CONCRETE CYLINDERS SHALL BE TAKEN AND TESTED BY A QUALIFIED CONCRETE TESTING COMPANY. THE GENERAL CONTRACTOR SHALL PROVIDE ONE (1) CYLINDER SAMPLE TAKEN PER TRUCK OR FOUR (4) TOTAL FOR BUILDING FOUNDATION AND THE CONCRETE MUST MEET A 4" SLUMP. THE GENERAL CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF TESTING RESULTS TO VERIZON WIRELESS AND TOWER OWNER CONSTRUCTION MANAGERS. FAILURE TO PROVIDE WRITTEN DOCUMENTATION WILL RESULT IN A DEDUCTION FROM THE CONTRACT. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY ADDITIONAL COSTS IN TESTING DUE TO DELAYS BY THE GENERAL CONTRACTOR OR HIS SUBCONTRACTORS. USE AIR ENTRAINMENT IN EXTERIOR SLABS.

SPECIFICATIONS	- LATEST EDITION OF ACI-318 AS ADOPTED BY THE STATE OF MICHIGAN	- BLDG. FOUNDATION F'c = 4000 PSI @ 28 DAYS
	2"-4" SLUMP	
MATERIALS	- REINFORCING	ASTM A615, GRADE 60
	- ANCHOR BOLTS	ASTM F1554 A36
REINFORCING COVERS	- FOOTINGS	
	TOP	2"
	BOTTOM/SIDES	3"

REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4000 PSI CONCRETE

BAR SIZE	ANCHORAGE	SPLICE (OTHER)	ANCHORAGE (TOP)	SPLICE (TOP)
#4	12"	25"	25"	33"

CHAMFER TOP CORNERS OF ALL FOUNDATIONS (3/4")

4. BURIED CABLE LOCATIONS INFORMATION

CONTACT MISSDIG 811 48 HR. PRIOR TO DIGGING, GRADING, OR DRILLING 1-800-482-7171 OR 811

ADDITIONAL CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI*96, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 305, 306 AND 307 UNLESS NOTED OTHERWISE.
2. ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-11.
3. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (±1%) AIR ENTRAINMENT.
4. PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.

Know what's below. Call before you dig.

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TOLL FREE: 1-800-482-7171 OR
www.missdig.org
MICHIGAN STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

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Professional Corporation
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax 330.572.2101

CORVATH COMMUNICATIONS
2307 EDISON RD
SOUTH BEND, IN 46615

REV.	DATE	DESCRIPTION
A	07/28/26	ISSUED FOR 90% REVIEW
B	10/27/26	SHIFTED LEASE AREA
C	11/02/26	REVISED PER COMMENTS

PRELIMINARY DRAFT NOT FOR CONSTRUCTION, BID, RELIANCE, RECORDING PURPOSES OR IMPLEMENTATION

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EQUIPMENT PAD FOUNDATION PLAN, DETAILS AND STRUCTURAL NOTES

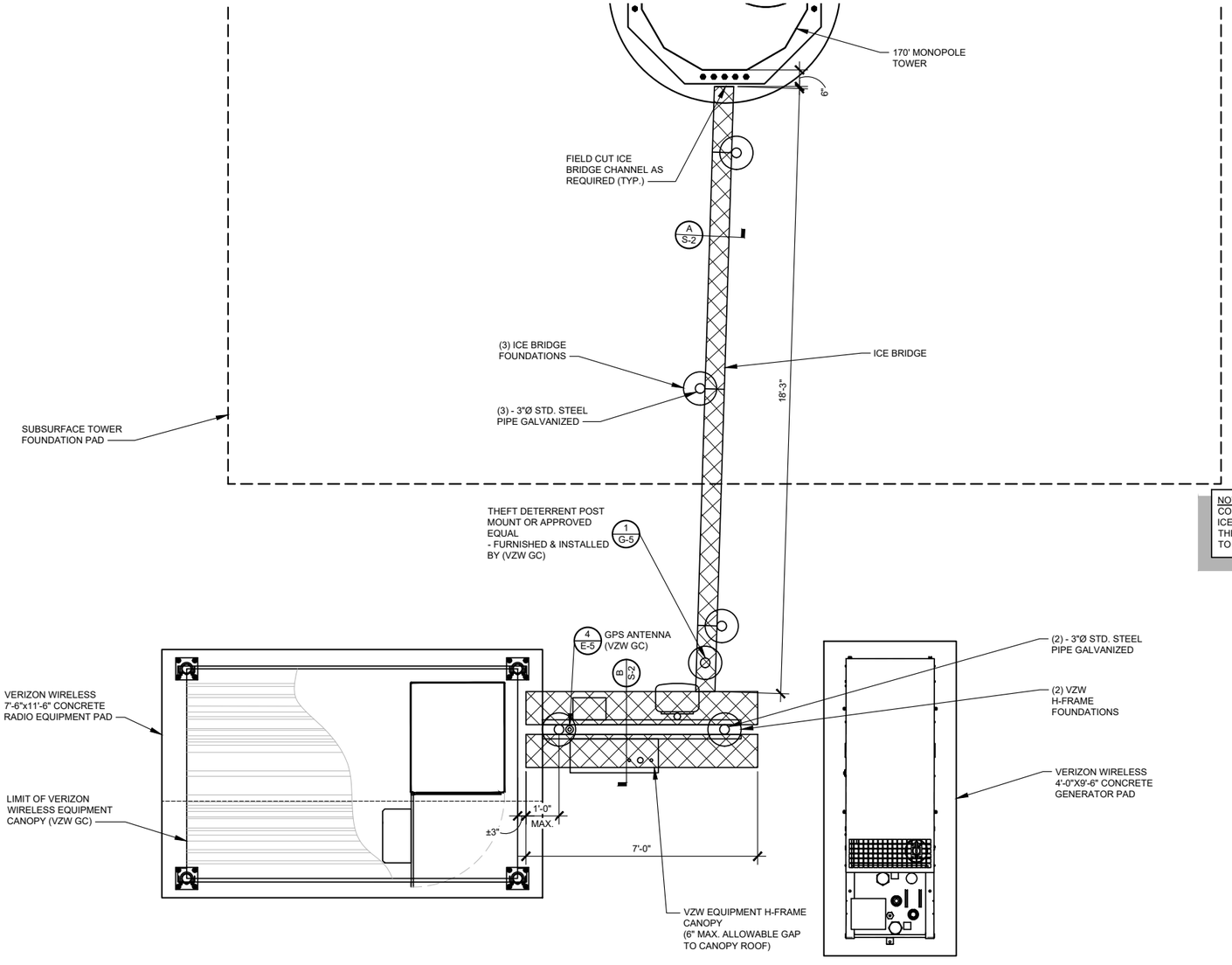
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PROJECT MANAGER	DESIGNER
TTP	SEK

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S-1

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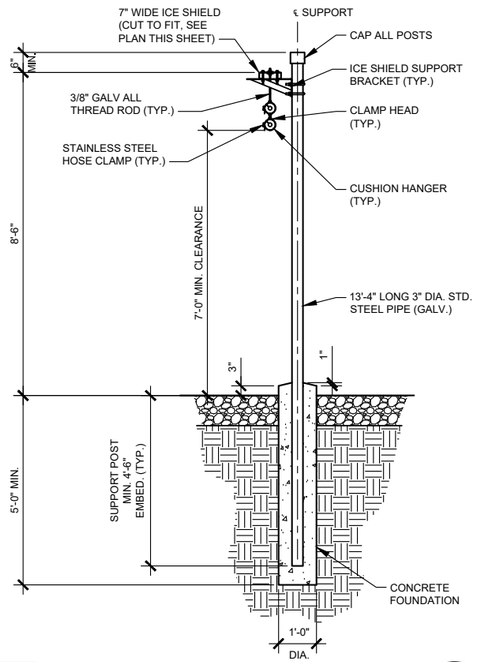


ICE BRIDGE PLAN

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

NORTH

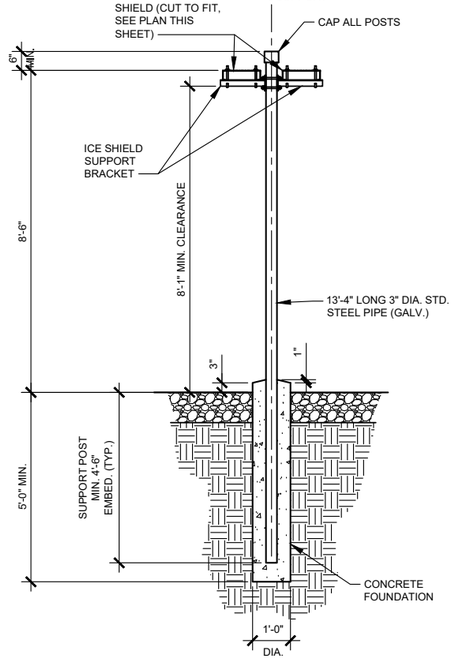
NOTE:
CONTRACTOR MAY SUBSTITUTE 12" ICE BRIDGE FOR THE 7" SECTION TO THE TOWER IF NO ADDITIONAL COST TO VZW



ICE BRIDGE SECTION

A S-2

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



VZW H-FRAME CANOPY SECTION

B S-2

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

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ICE BRIDGE PLAN AND DETAILS

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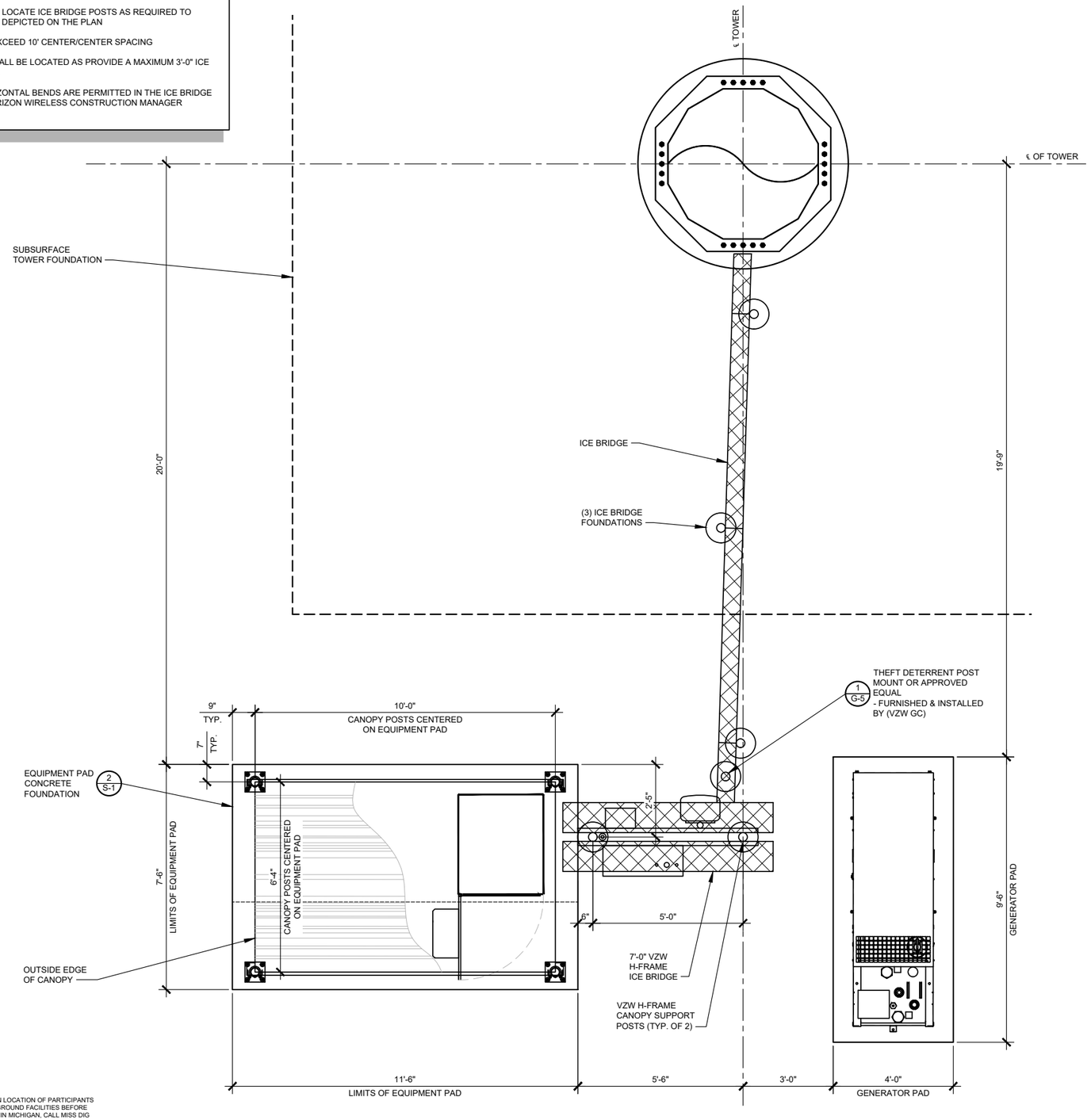
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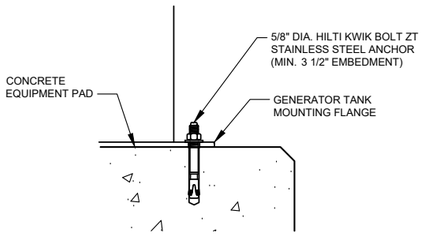
NOTE:

- CONTRACTOR SHALL LOCATE ICE BRIDGE POSTS AS REQUIRED TO ACHIEVE THE ROUTE DEPICTED ON THE PLAN
- POSTS SHALL NOT EXCEED 10' CENTER/CENTER SPACING
- TERMINAL POSTS SHALL BE LOCATED AS PROVIDE A MAXIMUM 3'-0" ICE BRIDGE CANTILEVER
- NO 90 DEGREE HORIZONTAL BENDS ARE PERMITTED IN THE ICE BRIDGE ROUTE WITHOUT VERIZON WIRELESS CONSTRUCTION MANAGER APPROVAL



FOUNDATION PLAN

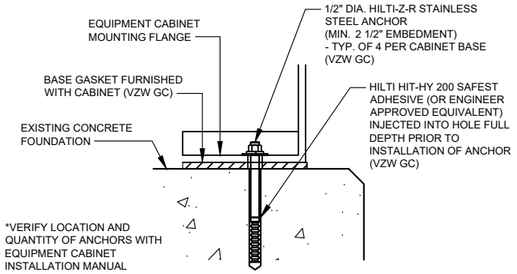
SCALE: 1/4" = 1'-0"



GENERATOR ANCHOR DETAIL

1 S-3

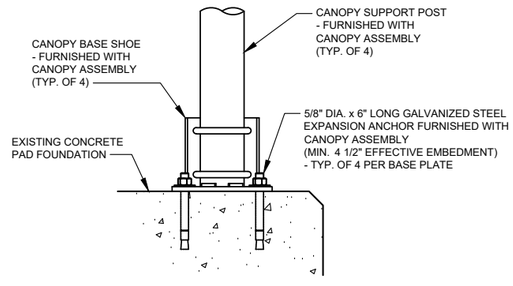
SCALE: N. T. S. (VZW GC)



EQUIPMENT CABINET MOUNTING DETAIL

2 S-3

SCALE: N. T. S.



CANOPY BASE PLATE ANCHORING DETAIL

3 S-3

SCALE: N. T. S.

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FOUNDATION PLAN AND DETAILS

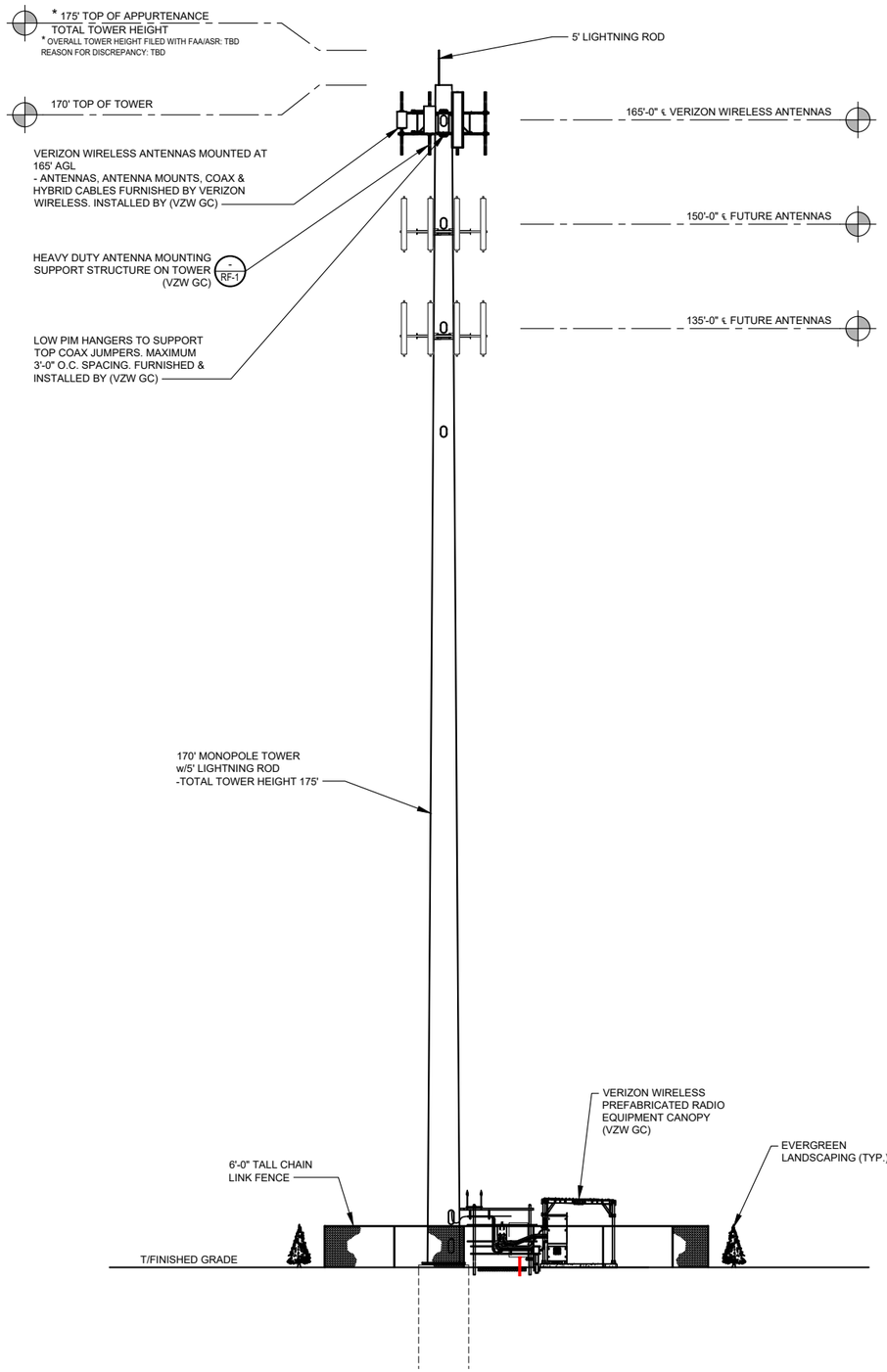
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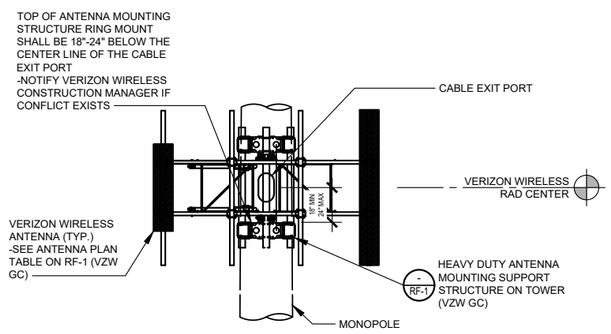
S-3

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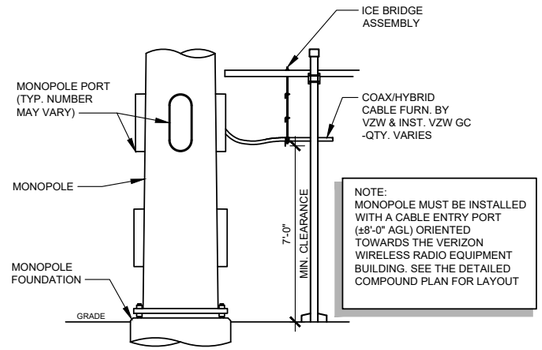


TOWER ELEVATION 1 TE-1

SCALE: N.T.S.



ANTENNA SUPPORT STRUCTURE INSTALLATION DETAIL 2 TE-1

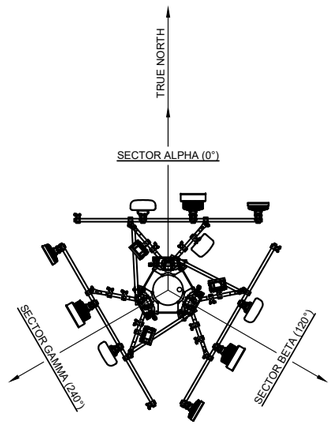


NOTE:
VERIZON WIRELESS CABLING MUST BE INSTALLED ON THE INTERIOR OF MONOPOLE VIA THE UPPERMOST CABLE ENTRY PORT (±8'-0" AGL) UNLESS NOTED OTHERWISE

MONOPOLE PORT HYBRID/COAX CABLE INSTALLATION DETAIL 3 TE-1

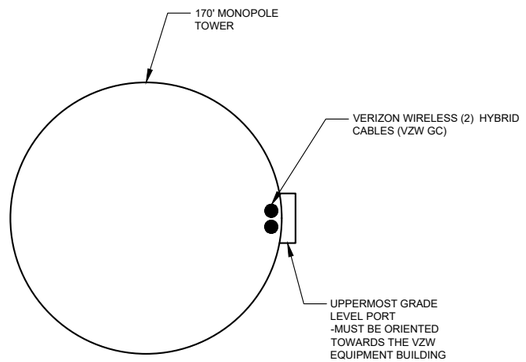
NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS (VZW GC)



ANTENNA ORIENTATION VIEW 4 TE-1

SCALE: N.T.S.



COAX PLAN

SCALE: N.T.S.

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TOWER ELEVATION

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POWER DESIGN NOTES:

POWER COMPANY	CONSUMERS ENERGY
POWER CONTACT	-
CONTACT PHONE	-
CONTACT EMAIL	-
WORK ORDER	-
NOTES	-

FIBER COORDINATION NOTES:

FIBER COMPANY	FIBER PROVIDER NOT IDENTIFIED
FIBER CONTACT	-
FIBER PHONE	-
FIBER EMAIL	-
NOTES	-

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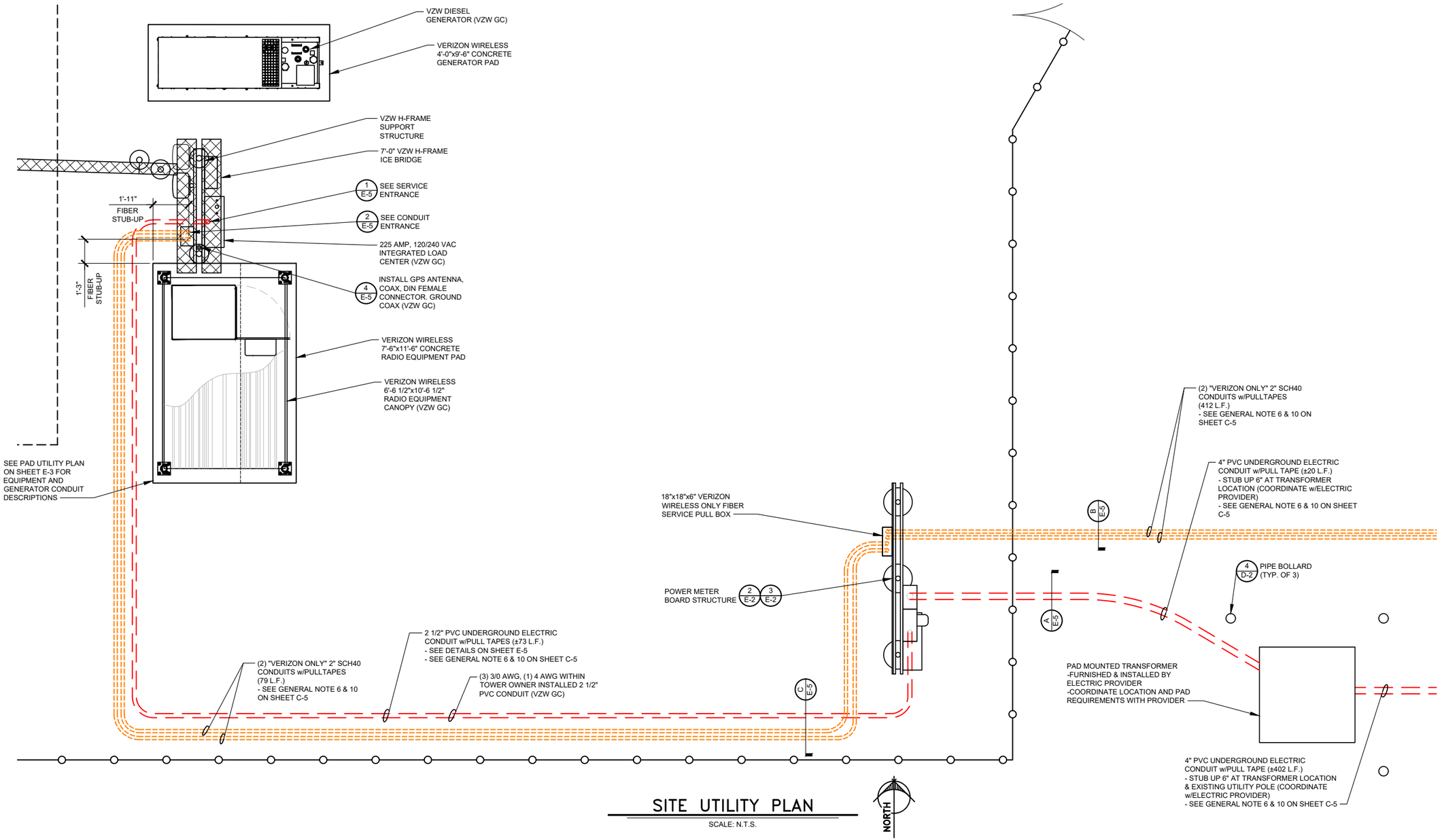
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FIBER SERVICE NOTES:

SEE SHEET E-1.1 FOR ADDITIONAL FIBER CONDUIT NOTES.

ELECTRICAL NOTES:

1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS ABOVE CONCRETE PAD SHALL BE 2" DIAMETER IMC WITH WEATHERPROOF FITTINGS.



SITE UTILITY PLAN

SCALE: N.T.S.

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SITE UTILITY PLAN

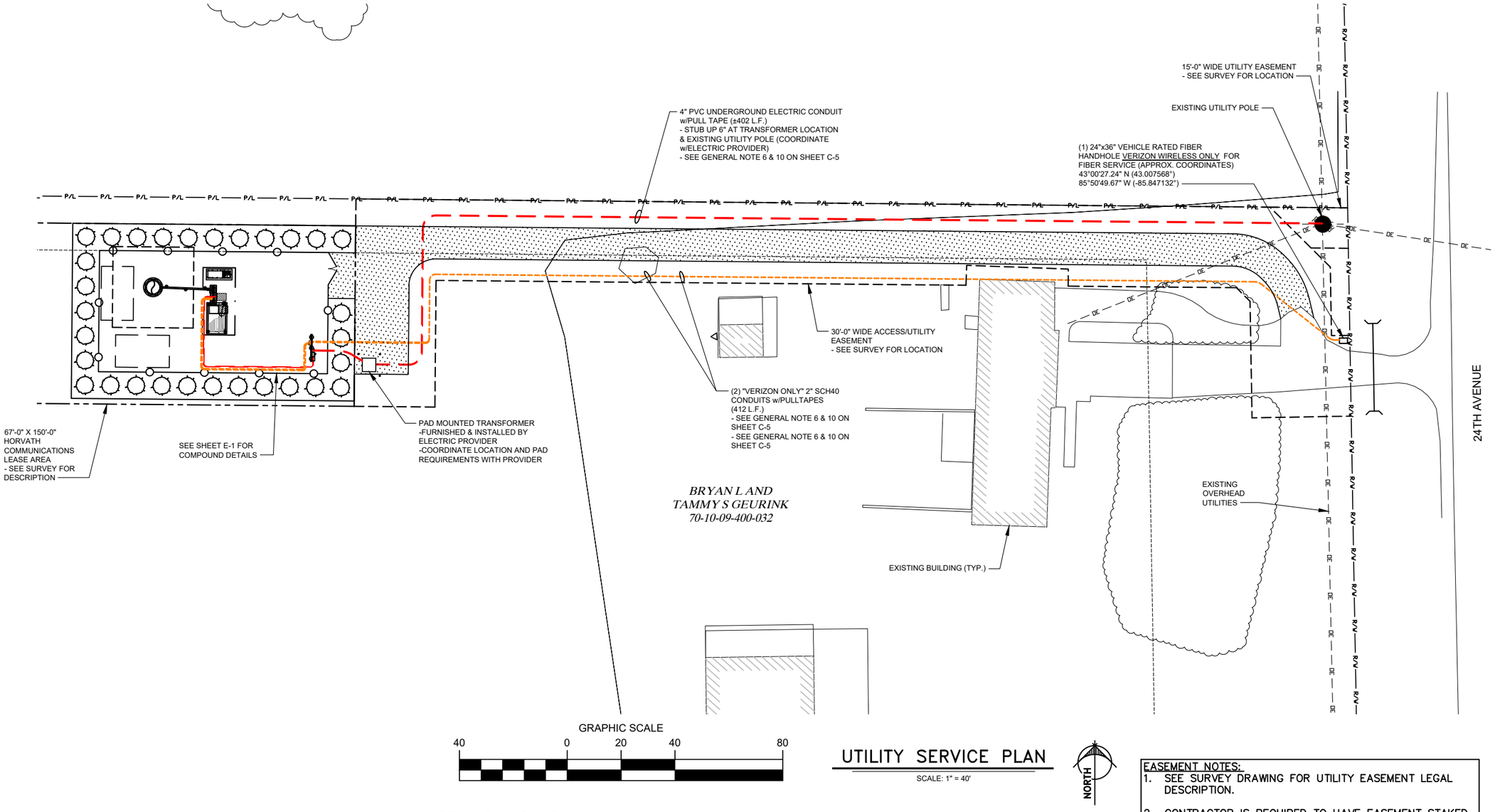
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UTILITY SERVICE PLAN

SCALE: 1" = 40'

NORTH

EASEMENT NOTES:

1. SEE SURVEY DRAWING FOR UTILITY EASEMENT LEGAL DESCRIPTION.
2. CONTRACTOR IS REQUIRED TO HAVE EASEMENT STAKED PRIOR TO CONDUIT INSTALLATION TO INSURE CONDUIT IS WITHIN EASEMENT.

FIBER SERVICE NOTES

1. TWO (2) 2" DIA. SCHD 40 PVC CONDUITS AND PULL TAPES FOR VERIZON WIRELESS FIBER SERVICE AND ONE (1) 4" DIA. SCHD 40 PVC FIBER CONDUIT W/ PULL TAPES, OR AS SPECIFIED BY THE TOWER OWNER FOR FUTURE FIBER SERVICE, SHALL BE INSTALLED FROM H-FRAME JUNCTION BOX TO HANDHOLE MEET POINT AT THE PUBLIC RIGHT-OF-WAY.
   - THE VERIZON FIBER HANDHOLES SHALL BE OLDCASTLE INFRASTRUCTURE MODEL 24361480 PC2436-30 T22 - VERIZON LOGO OR QUAZITE|HUBBELL POWER SYSTEMS MODEL PG2436Z1857B4 ASSY T22 SW OB 24x36x30 VERIZON V, OR APPROVED EQUALS. ALTERNATIVE HANDHOLES MAY BE USED IF MEETING THE DESIGNATED LOADING AND HAVING DIMENSIONS OF AT LEAST 2'x3'x2.5'. ALL VERIZON HANDHOLES TO HAVE "VERIZON" LOGO ON COVER.
   - THE GENERAL USE FIBER CONDUIT HANDHOLE SHALL BE A MODEL AS APPROVED BY THE CONSTRUCTION MANAGER.
2. CONTRACTOR SHALL PLACE ADDITIONAL HANDHOLES ALONG ROUTE, AS NECESSARY, SO THAT SPACING BETWEEN HANDHOLES IS NO GREATER THAN 500 FEET.
3. TWO (2) 2" DIA. SCHD 40 PVC CONDUITS W/ PULL TAPES FOR VERIZON WIRELESS FIBER SERVICE SHALL BE INSTALLED FROM H-FRAME JUNCTION BOX TO VERIZON WIRELESS EQUIPMENT PAD LOCATION (PER PLANS).
4. CONTRACTOR SHALL PLACE (1) COPPERHEAD INDUSTRIES ORANGE TRACER WIRE (PART NO. 1230N-HS) OR APPROVED EQUIVALENT ABOVE PROPOSED FIBER CONDUIT(S).
5. IF WET GROUND CONDITIONS ARE ENCOUNTERED ONE (1) 4" DIA. SCH40 PVC FIBER CONDUIT W/ THREE (3) 1" HDPE SMOOTH WALL INNERDUCTS AND PULL TAPES MAY BE INSTALLED FROM HANDHOLE OUTSIDE COMPOUND MEET POINT AT THE PUBLIC RIGHT-OF-WAY WITHIN UTILITY EASEMENT WITH PULL TAPE.
6. ALTERNATE CONDUIT MATERIALS THAT MAY BE UTILIZED ARE:
   - 2" DIA. SDR-13.5 HDPE
   - 2" DIA. SCHD 80 PVC

APWA UTILITY COLOR CODES

	PROPOSED CONSTRUCTION
	TEMPORARY SURVEY MARKINGS
	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
	GAS, OIL STEAM PETROLEUM OR GASEOUS MATERIALS
	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
	POTABLE WATER
	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
	SEWERS AND DRAIN LINES

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UTILITY SERVICE PLAN

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VERIZON PANEL "A" SCHEDULE

MAIN: 225/2 VOLTAGE: 120/240 PHASE: 1 WIRE: 3

TO AUTOMATIC TRANSFER SWITCH — 225A — S_G A B S_N

DESCRIPTION	BRKR.	WATTS			WATTS	BRKR.	DESCRIPTION
RECTIFIER #1	30/2	1800 / 1800	1	2	1800 / 1800	30/2	RECTIFIER #2
			3	4			
RECTIFIER #3	30/2	1800 / 1800	5	6	1800 / 1800	30/2	RECTIFIER #4
			7	8			
RECTIFIER #5	30/2	1800 / 1800	9	10	1800 / 1800	30/2	RECTIFIER #6
			11	12			
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
GFCI RECEPTACLE (RF CABINET)	15/1	180	31	32			SPACE
GEN. BLOCK HEATER	20/1	1500	33	34	180	15/1	GFCI RECEPTACLE
CANOPY LIGHTS	15/1	126	35	36	250	20/1	GEN. BATTERY CHARGER

SURGE ARRESTOR

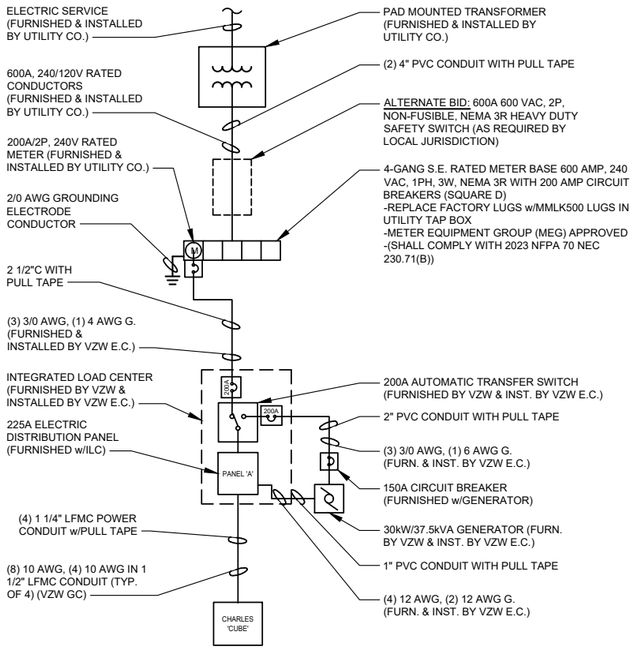
SURFACE MOUNTED NEMA 3R w/DOOR
22K AIC BREAKERS
(E.C. SHALL VERIFY AIC RATINGS W/LOCAL POWER CO.)

PANEL LOADING SUMMARY:

MAXIMUM LOADING ON 200A PANEL SHALL BE 160A CONTINUOUS. RECTIFIERS SHALL BE CONSIDERED A CONTINUOUS LOAD. MAXIMUM NUMBER OF RECTIFIERS SHALL NOT EXCEED 8. LOADING WILL VARY BASED ON QUANTITY OF RECTIFIERS/CABINETS AND WILL NOT BE DETERMINED UNTIL TIME OF BUILD BY VERIZON. VERIZON TO ENSURE THE MAXIMUM TOTAL PANEL LOAD DOES NOT EXCEED 160A CONTINUOUS LOAD. VERIZON SHALL ALSO VERIFY THAT THE GENERATORTOR IS CAPABLE OF TRANSFERING THE ENTIRE PLANNED LOAD. VERIZON SHALL LOAD SHED AS REQUIRED IN ORDER TO ENSURE GENERATOR RATING IS NOT EXCEEDED.

PANEL SCHEDULE "A"

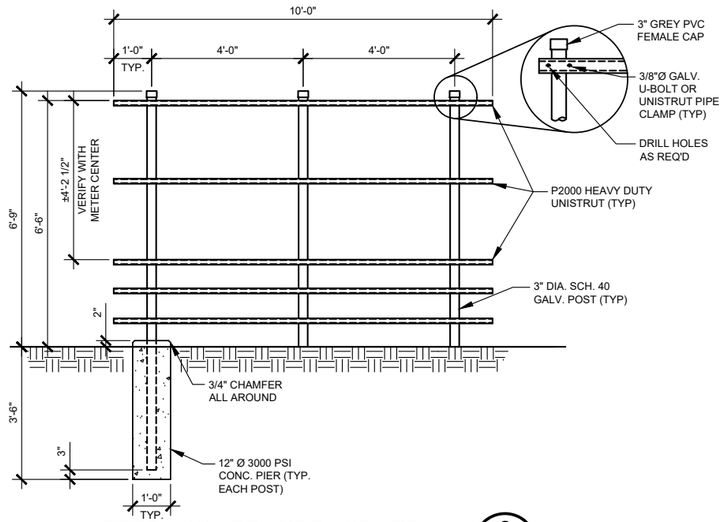
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ONE LINE DIAGRAM

1 E-2

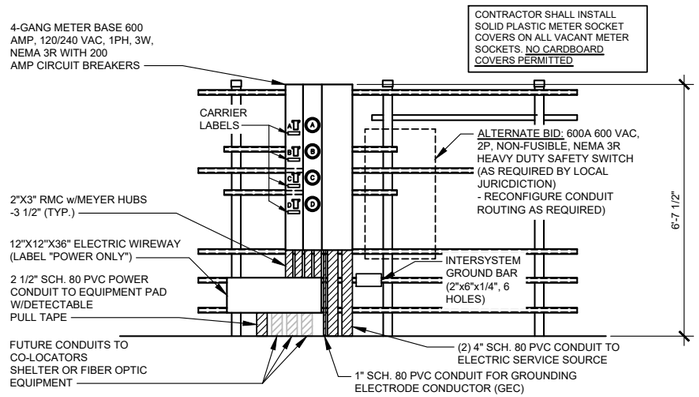
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METER BOARD STRUCTURE

2 E-2

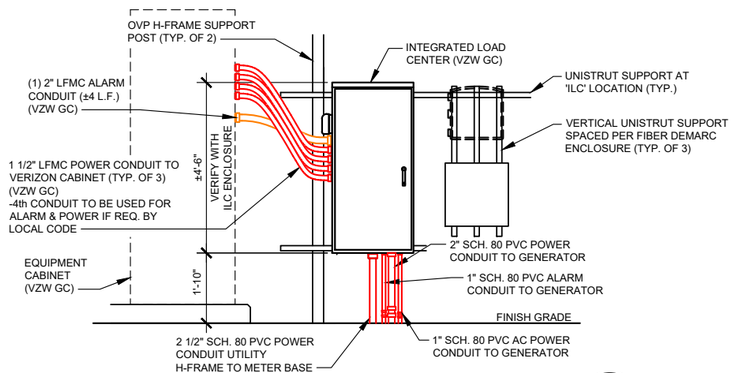
SCALE: 1/4" = 1'-0"



METER BOARD STRUCTURE–ELECTRIC SIDE

3 E-2

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



VZW ILC MOUNTING DETAIL

4 E-2

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

GENERAL ELECTRICAL NOTES

1. UNLESS NOTED AS VERIZON WIRELESS GENERAL CONTRACTOR OR VZW GC, ALL WORK ITEMS ON ELECTRICAL "E" & GROUNDING "G" SHEETS SHALL BE PERFORMED BY THE GENERAL CONTRACTOR'S ELECTRICAL CONTRACTOR. ALL WORK SHOWN AS NEW UNLESS NOTED EXISTING.
2. THE GENERAL CONTRACTOR AND VERIZON WIRELESS ELECTRICAL CONTRACTORS SHALL BE LICENSED TO PERFORM WORK IN THE COUNTY OF THIS PROJECT AND SHALL BE RESPONSIBLE FOR OBTAINING AN ELECTRICAL PERMIT FROM THE COUNTY.
3. UNDERGROUND CONDUIT SHALL BE SCH. 40 (SCH. 80 UNDER ROADWAY) PVC PLASTIC DUCT WITH ALL BENDS MINIMUM 24" RADIUS 90° SWEEP SCH. 80 UNLESS OTHERWISE NOTED ON DRAWINGS. ELECTRICAL AND FIBER UTILITY LATERAL CONDUITS SHALL BE MINIMUM 36" RADIUS 90° SWEEP SCH. 80. ALL PVC SCH80 PIPING AND FITTINGS SHALL USE BELL END WHERE FEASIBLE.
4. ABOVE GRADE RISER CONDUIT SHALL BE RIGID SCH. 80 PVC WITH MATCHING FITTINGS UNLESS NOTED OTHERWISE.
5. ALL CONDUITS SHALL BE PLACED WITH 200 LB POLYETHYLENE PULL TAPES. PULL TAPES SHALL BE SECURELY FASTENED AT EACH END OF CONDUIT. (THIS SHALL ALSO APPLY FOR ALL FIBER CONDUITS).
6. PRIOR TO TRENCHING AND FOR COORDINATING OF THE FIBER AND ELECTRICAL SERVICES, SEE SHEET C-5 GENERAL NOTE #6 FOR UTILITY CONTACT NAMES & PHONE NUMBERS TO ALSO INCLUDE VERIZON WIRELESS CONSTRUCTION MANAGER.
7. ALL WORK SHALL BE IN ACCORDANCE WITH N.F.P.A. AND N.E.C. CODES, NEMA STANDARDS AND ALL LOCAL CODES.
8. ALL WIRE SHALL BE COPPER, 600V THHN-2/THWN-2 OR XHHW-2 90°C UNLESS NOTED OTHERWISE.
9. ALL ELECTRICAL CONTRACTORS SHALL ABIDE BY ALL GUIDELINES REQUIRED BY TOWER OWNER AND VERIZON WIRELESS, INCLUDING BUT NOT LIMITED TO, a) STAGE CONSTRUCTION AND REPORT WHEN ON AND OFF THE SITE. b) PROVIDE LOG BOOK RECORDS OF PERSONNEL ON TOWER. c) PROVIDE R.F. MONITORING DEVICES TO TOWER PERSONNEL. d) VERIZON WIRELESS TO INSPECT ALL TRENCHING BEFORE BACKFILLING.
10. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL UNDERGROUND CONDUITS SHOWN ON PLANS UNLESS NOTED OTHERWISE. ALL UNDERGROUND CONDUIT SHALL BE STUBBED-UP AND CAPPED AT THE LOCATION INDICATED ON PLANS. VZW CONTRACTOR SHALL COMPLETE ALL CONDUIT TERMINATIONS TO VZW ENCLOSURES SHOWN ON PLANS AND ELECTRICAL PROVIDER DESIGN .
11. THE VZW ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL SERVICE REQUIRED - 120/240V, SINGLE PHASE, 200 AMP BEFORE ROUGH IN.
12. GENERAL CONTRACTOR AND VZW ELECTRICAL CONTRACTORS SHALL PROVIDE FIRE WATCH DURING ALL WELDING OPERATIONS. TWO (2) HAND HELD 30 LB. FIRE EXTINGUISHERS & ADEQUATE WATER SUPPLY SHALL BE APPROVED BY THE CLIENT AND THE TOWNSHIP WATER AUTHORITY.
13. SEAL ALL PENETRATIONS WITH SILICONE SEALANT.
14. ELECTRICAL WORK PRESENTS SPECIFIC THREATS TO THE HEALTH AND SAFETY OF WORKERS ON SITE. SPECIFICALLY ELECTROCUTIONS ARE THE FOURTH LEADING CAUSE OF DEATH ON CONSTRUCTION SITES. ALL ELECTRICAL WORKERS SHALL HAVE CURRENT CERTIFICATIONS WHICH SATISFY ALL TRAINING REQUIREMENTS FOR THE ELECTRICAL WORK THEY ARE PERFORMING PER OSHA STANDARDS. ALL ELECTRICAL WORKERS SHALL ADHERE TO ALL SAFETY RULES AND REGULATIONS FOR WORKER AND PUBLIC SAFETY. ALL WORK SHALL BE PERFORMED BY QUALIFIED ELECTRICIANS TRAINED FOR THE TYPE OF WORK AND THE VOLTAGES PRESENT FOR EACH TASK. THE CONTRACTOR SHALL REVIEW ALL LANDOWNER, PRIME CONTRACTOR, CARRIER, OSHA, NFPA 70E, AND LOCAL SAFETY GUIDELINES AND AT ALL TIMES SHALL CONFORM TO THE MOST RESTRICTIVE OF THESE STANDARDS TO ENSURE A SAFE WORKPLACE.
15. CONNECT NEUTRAL TERMINAL IN SERVICE DISCONNECTING DEVICE TO GROUNDING ELECTRODE. (2/0 AWG TINNED STRANDED COPPER GROUNDING ELECTRODE CONDUCTOR IN 1" PVC CONDUIT). CONNECT FIRST GROUNDING ELECTRODE TO SECOND GROUNDING ELECTRODE WITH 2/0 AWG TINNED STRANDED COPPER CONDUCTOR EXOTHERMICALLY WELDED TO ELECTRODES.
16. VZW E.C. SHALL VERIFY SUFFICIENT CAPACITY EXISTS AT EXISTING METER CENTER. NOTIFY ENGINEER IMMEDIATELY IF SERVICE IS NOT ADEQUATE.
17. REFER TO ELECTRICAL SITE PLAN FOR CONDUIT AND WIRE EQUIREMENTS.
18. ALL ELECTRICAL EQUIPMENT PLACARDS MUST BE ENGRAVED PLASTIC LABELS ONLY, NO P-TOUCH LABELS ARE TO BE USED. PLACARDS SHALL BE 1 1/2" x 5" IN SIZE AND PERMANENTLY AFFIXED TO THE ENCLOSURES EASILY VISIBLE LOCATIONS.
19. VERIZON WIRELESS ELECTRICAL PLACARD REQUIREMENTS:
    a) AVAILABLE FAULT CURRENT RATING FROM UTILITY PROVIDER WITH DATE.
    b) VERIZON WIRELESS SERVICE DISCONNECT AT METER BASE.
    c) VERIZON MAIN BREAKER AT INTEGRATED LOAD CENTER 'ILC'.
    d) GENERATOR NEUTRAL CONDUCTOR BONDED TO SERVICE GROUNDING ELECTRODE IN THIS ENCLOSURE AT METER CENTER AND AUTOMATIC TRANSFER SWITCH "ATS" NEUTRAL BAR.
    e) VERIZON WIRELESS GENERATOR
    f) 'ACCESS PROPERTY OF VERIZON WIRELESS' AT ALL VERIZON WIRELESS FIBER HAND HOLES FASTENED TO INSIDE WALL OF HAND HOLE.
20. ALL EQUIPMENT SHALL BE GROUNDED PER LATEST EDITION OF NEC AND AS INDICATED ON GROUNDING PLAN.
21. ELECTRICAL EQUIPMENT SHALL BE MIN 3'-0" FROM ANY STRUCTURE AND AS REQUIRED BY LOCAL UTILITY COMPANIES.
22. 2 AWG BARE SOLID TINNED COPPER WIRE LEADS FROM NEW H-FRAME STRUCTURE TO BE BONDED TO EXISTING GROUNDING SYSTEM (TYP)
23. ALL METALLIC CABINETS & ENCLOSURES MUST BE GROUNDED WITH 2 AWG TO GROUND RING.
24. ALL ABOVE GRADE GROUND VZW CONNECTIONS SHALL BE IN 1/2" FLEXIBLE PVC CONDUIT w/ANTI-THEFT COMPOUND. ALL OTHER LEADS SHALL BE IN 1/2" PVC CONDUIT.
25. ALL HARDWARE USED MUST BE GALVANIZED OR STAINLESS STEEL, NO ZINC OR OTHER MATERIAL IS TO BE USED.
26. VERIZON WIRELESS FURNISH & INSTALL ALL INNER CONNECTING CONDUITS BETWEEN CABINETS AND LAND ALL AC POWER TO VZW EQUIPMENT.
27. ALL CONDUIT RUNS SHALL HAVE A CONTINUOUS SLOPE DOWNWARD AND AWAY FROM THE METERBOARD SO THAT WATER WILL NOT FLOW FROM THE EQUIPMENT. TRENCHES SHALL BE EXCAVATED ALONG STRAIGHT LINES BEFORE CONDUIT ARE INSTALLED SO THE ELEVATION CAN BE ADJUSTED, IF NECESSARY, TO AVOID UNSEEN OBSTACLES.
28. PRIOR TO THE SUBMISSION OF BIDS, THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS SHALL VERIFY ALL DETAILS AND SCHEDULES ON THE DRAWINGS AND SPECIFICATIONS PROVIDED BY THE OWNER, FOR MEANING OF ABBREVIATIONS AND ADDITIONAL REQUIREMENTS AND INFORMATION, CHECK STRUCTURAL AND OTHER MECHANICAL AND ELECTRICAL DRAWINGS FOR SCALE, SPACE LIMITATIONS, DOOR SWINGS, ADJACENT CARRIER EQUIPMENT COORDINATION AND ADDITIONAL INFORMATION, ETC. REPORT ANY DISCREPANCIES, CONFLICTS, ETC. TO THE OWNER BEFORE SUBMITTING BIDS.

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PANEL SCHEDULE, ONE-LINE DIAGRAM, ELECTRICAL NOTES AND DETAILS

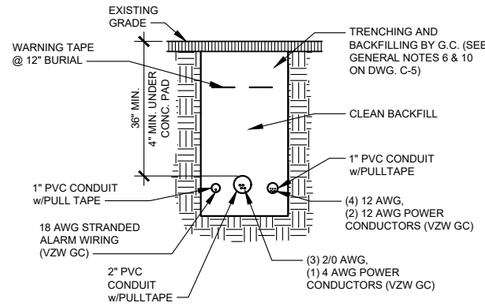
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PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

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E-2

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GENERATOR FEEDER TRENCH SECTION DETAIL

A / E-3

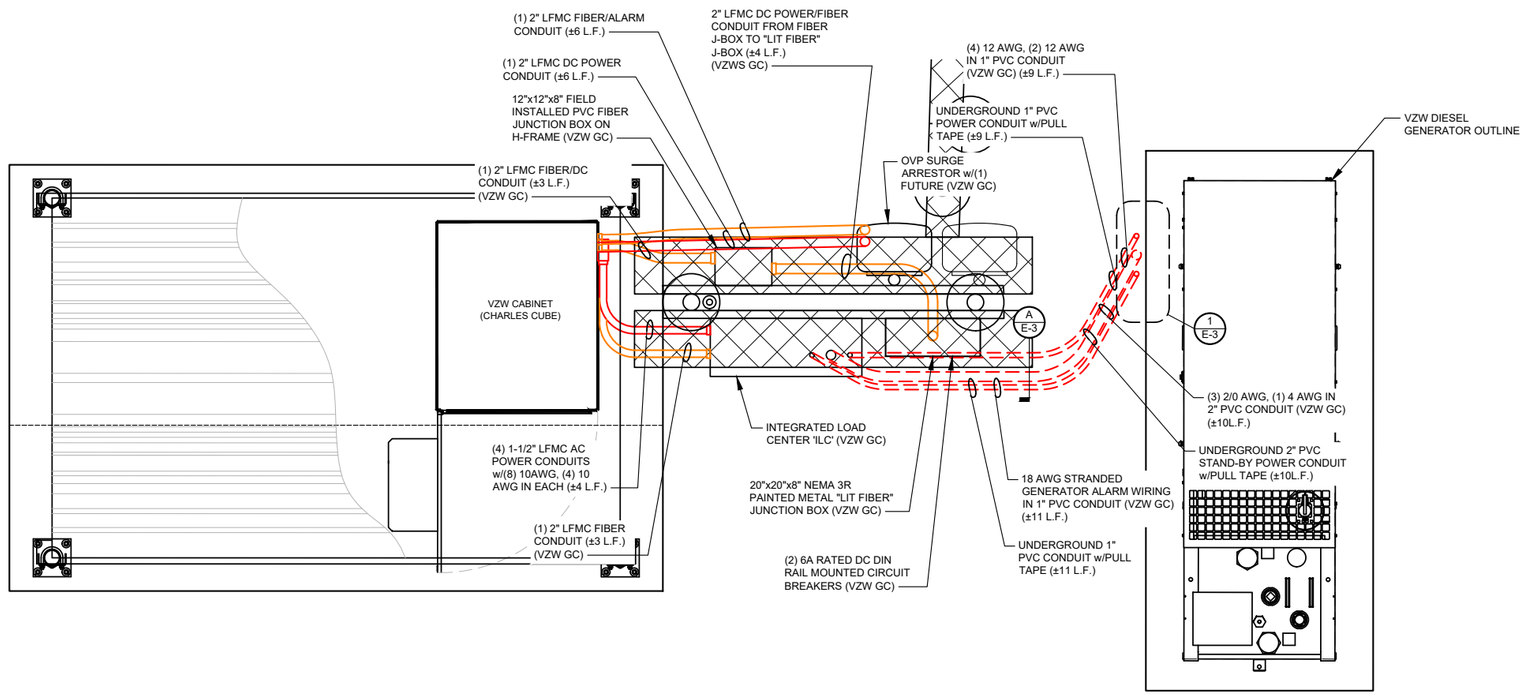
SCALE: N.T.S.

NOTE:

ALL GENERATOR CONDUITS SHALL BE STUBBED UP OUTSIDE THE CONCRETE GENERATOR PAD AND CAPPED WEATHER TIGHT FOR FUTURE INSTALLATION OF LB FITTINGS AND FLEX CONDUIT TO GENERATOR. CONTRACTOR SHALL FIELD DETERMINE THE APPROPRIATE LOCATION FOR CONDUIT PENETRATIONS INTO GENERATOR BASE. CONTRACTOR SHALL ENSURE ALL CONDUIT LOCATIONS DO NOT OBSTRUCT GENERATOR ACCESS DOORS AND PANELS. ALL FINAL CONDUIT CONNECTIONS TO GENERATOR SHALL BE WEATHER TIGHT.

NOTE:

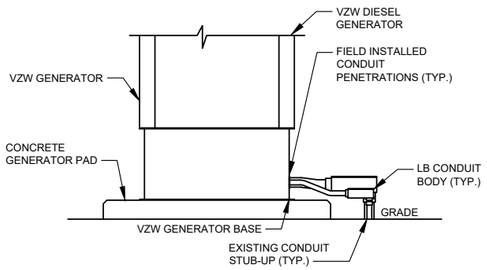
ALL GENERATOR CONDUITS SHALL BE INSTALLED AND CAPPED WEATHERTIGHT FOR FUTURE GENERATOR INSTALLATION IF REQUIRED

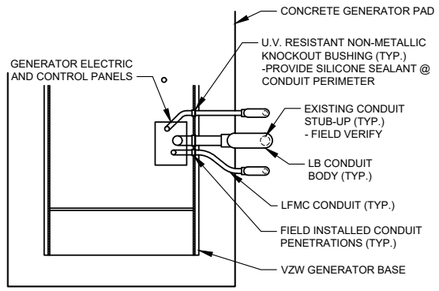


EQUIPMENT PAD UTILITY PLAN

SCALE: 3/8" = 1'-0"

NORTH





GENERATOR CONDUIT PENETRATION DETAIL

1 / E-3

SCALE: N.T.S.

VERIZON CAT5 CABLE ALARM SCHEDULE	
CIRCUIT DESCRIPTION	CAT5 CABLE TERMINATIONS
ILC TO CABINET	(1) FOR DRY CONTACT TO 66 BLOCK
	(1) FOR SB RELAY TO ADVANCED ALARMING UNIT
ILC TO GENERATOR	(1) FOR DRY CONTACT/GENERATOR RUN COMMUNICATION BETWEEN ILC AND GENERATOR
GENERATOR TO CABINET	(1) FOR DRY CONTACT TO 66 BLOCK
	(1) FOR GENERATOR TO ADVANCED ALARMING UNIT

ELECTRICAL NOTES:

1. PROVIDE 6'-0" MAX. LIQUIDTIGHT FLEXIBLE METAL CONDUIT AT ALL EQUIPMENT CONNECTIONS.
2. ALL CONDUIT SHALL BE ROUTED WITHIN 2'-0" OF PERIMETER COMPOUND FENCE WHERE APPLICABLE.
3. CONDUIT TRENCH WIDTH SHALL NOT EXCEED 18" AT ALL ACCESS DRIVE LOCATIONS AND WHEN CROSSING THE COMPOUND GATE OPENING.
4. ALL CONDUIT RACEWAYS BETWEEN CABINETS AND EQUIPMENT ABOVE CONCRETE PAD SHALL BE LFMC WITH DIAMETER AS NOTED ON PLAN WITH WEATHERPROOF FITTINGS.
5. ALL GENERATOR CONDUITS SHALL BE INSTALLED REGARDLESS OF INITIAL GENERATOR INSTALLATION.

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EQUIPMENT PAD UTILITY PLAN & EQUIPMENT PAD TRENCH SECTIONS

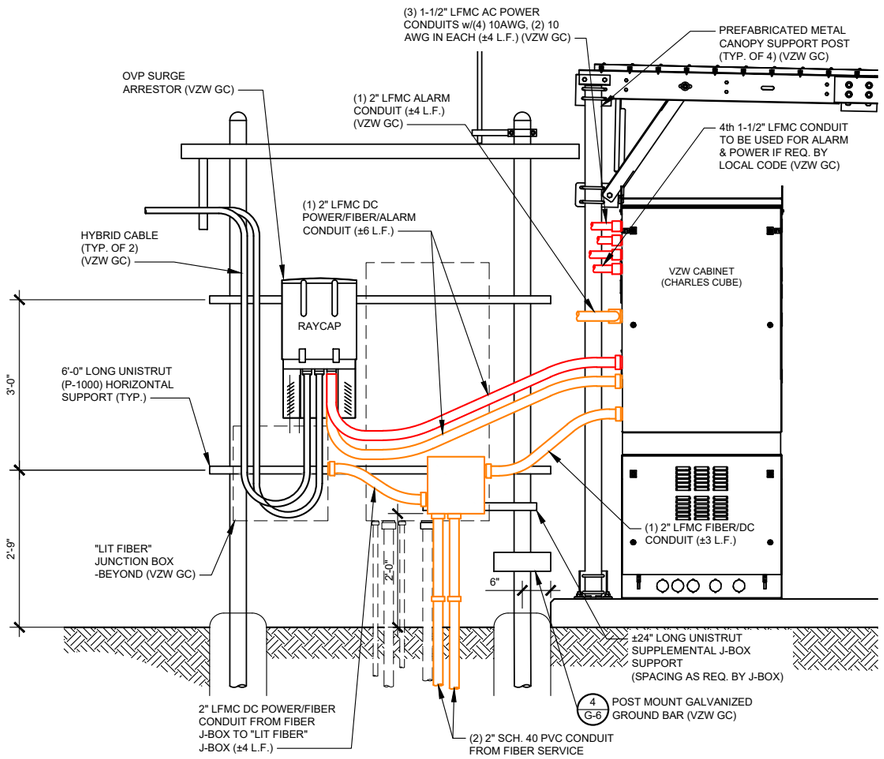
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PROJECT MANAGER	DESIGNER
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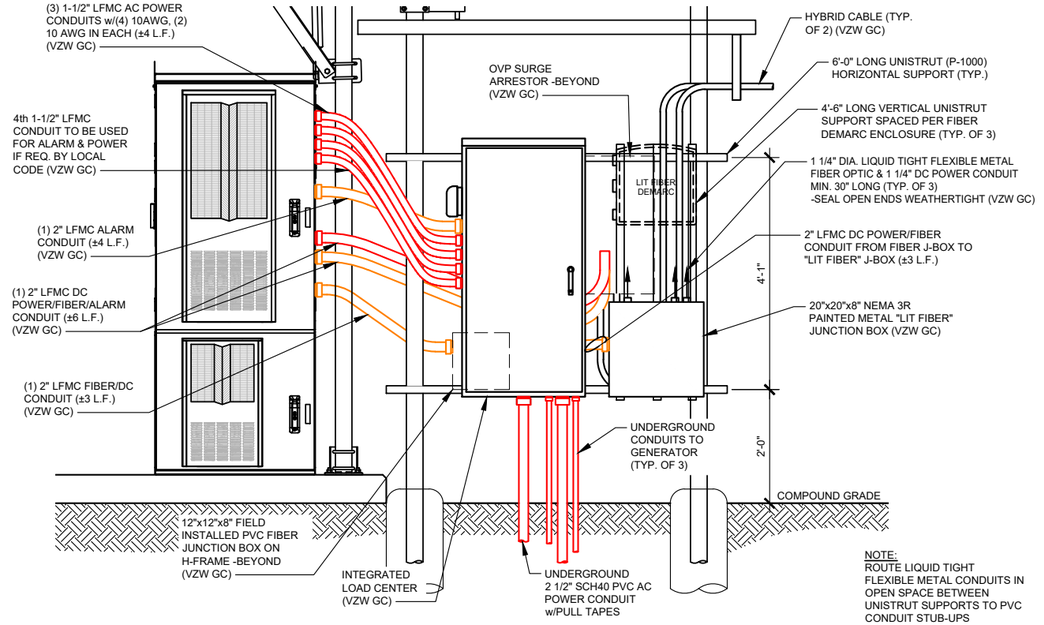
E-3

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OUTDOOR OVP EQUIPMENT ELEVATION (OVP SIDE) – REAR (1 / E-4)

SCALE: 3/8" = 1'-0"



NOTE:
ROUTE LIQUID TIGHT FLEXIBLE METAL CONDUITS IN OPEN SPACE BETWEEN UNISTRUT SUPPORTS TO PVC CONDUIT STUB-UPS

OUTDOOR OVP EQUIPMENT ELEVATION (ILC SIDE) – FRONT (2 / E-4)

SCALE: 3/8" = 1'-0"

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HORVATH COMMUNICATIONS
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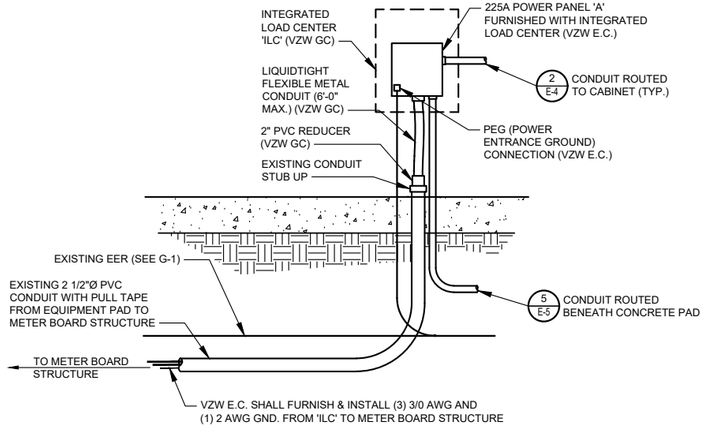
INTEGRATED LOAD CENTER
H-FRAME ELEVATIONS AND DETAILS

ISSUED FOR:	
REVIEW	--/--/--
PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

PROJECT MANAGER	DESIGNER
TTP	SEK

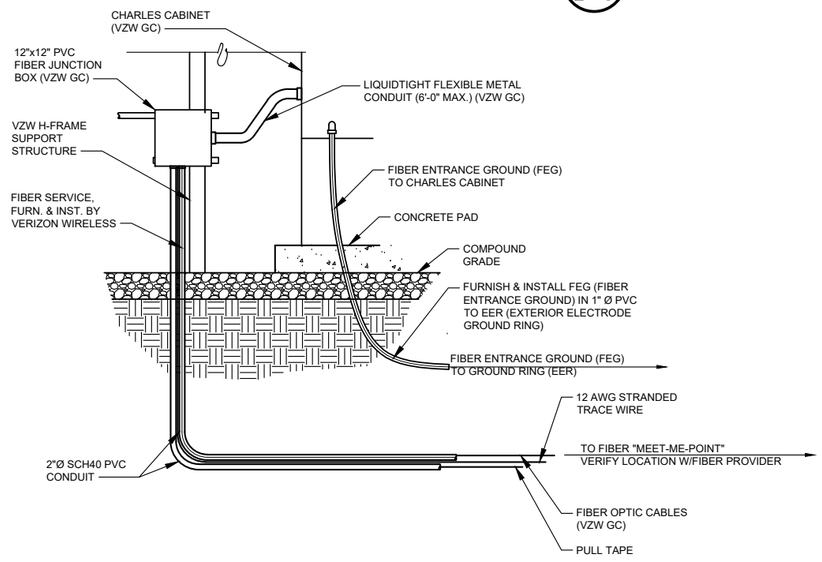
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E-4



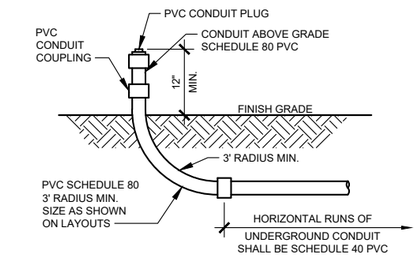
SERVICE ENTRANCE DETAIL — 1 / E-5

SCALE: N.T.S.



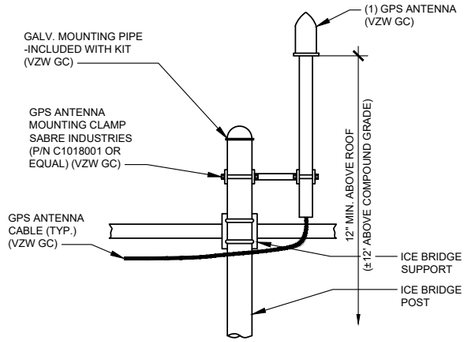
FIBER CONDUIT ENTRANCE DETAIL — 2 / E-5

SCALE: N.T.S.



UNDERGROUND CONDUIT STUB-UP DETAIL — 3 / E-5

SCALE: N. T. S.



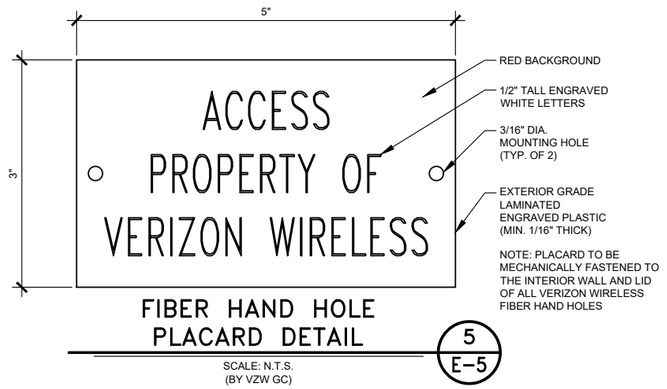
*ALL GPS ANTENNA INSTALLATION BY VZW GC

NOTE:
GPS ANTENNA MUST BE INSTALLED IN SUCH A MANNER AS TO PROVIDE A 360° CLEAR VIEW OF THE SKY AT ITS LOWEST MOUNTING POINT

MINIMUM GPS ANTENNA HORIZONTAL IS MINIMUM ONE WAVELENGTH OF THE OPERATING FREQUENCY

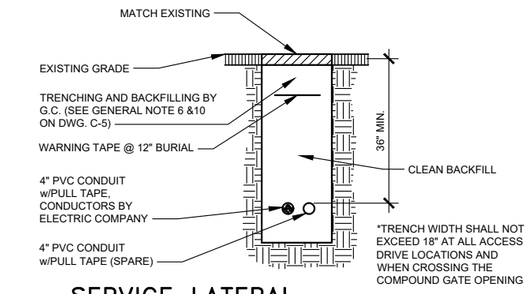
GPS MOUNT DETAIL — 4 / E-5

SCALE: N.T.S.
(BY VZW GC)



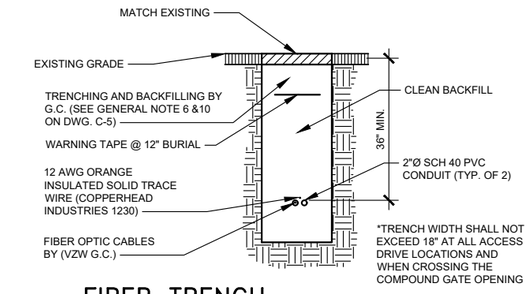
FIBER HAND HOLE PLACARD DETAIL — 5 / E-5

SCALE: N.T.S.
(BY VZW GC)



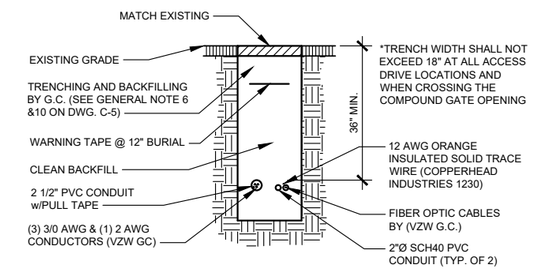
SERVICE LATERAL TRENCH SECTION DETAIL — A / E-5

SCALE: N.T.S.



FIBER TRENCH SECTION DETAIL — B / E-5

SCALE: N.T.S.



JOINT SERVICES TRENCH SECTION DETAIL — C / E-5

SCALE: N.T.S.

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ELECTRICAL DETAILS

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CONSTRUCTION	--/--/--
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E-5

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NOTE:

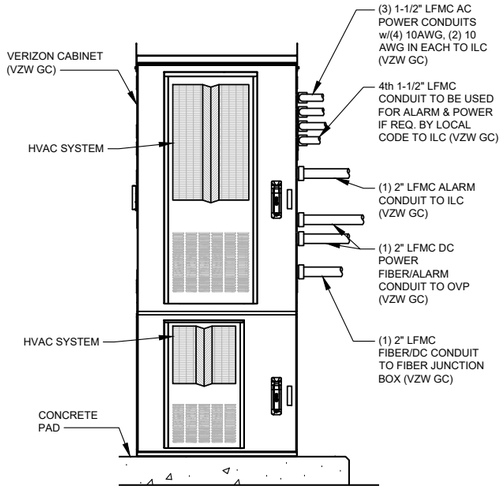
CONCRETE EQUIPMENT PAD TO HAVE 1% SLOPE AWAY FROM FRONT OF CABINET. SEE DETAIL 1 ON SHEET S-1

NOTE:

FIBER OPTIC INNERDUCTS SHALL TERMINATE INSIDE VERIZON CABINET ONLY

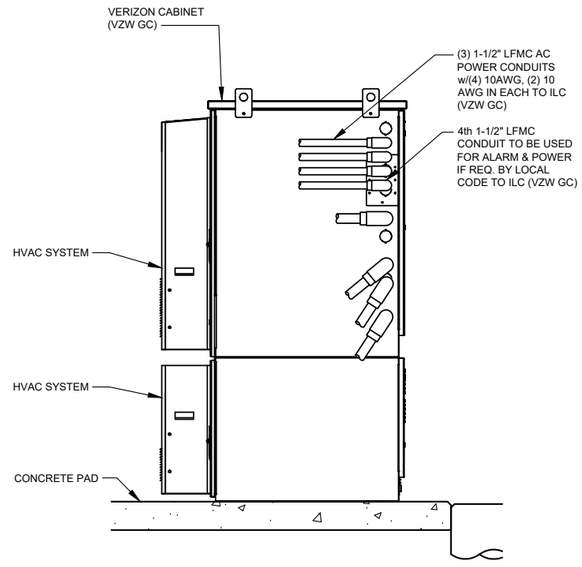
NOTE:

VERIFY INTERIOR EQUIPMENT LOCATION PRIOR TO JUNCTION BOX FASTENER INSTALLATION. NO SHARP FASTENER EDGES PERMITTED WITHIN VERIZON CABINET



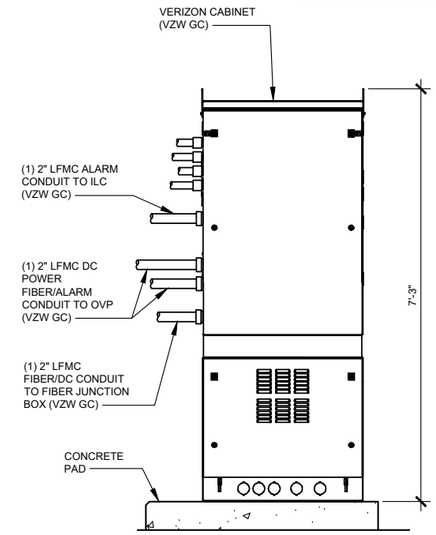
VERIZON CABINET FRONT ELEVATION — 1 / E-6

SCALE: N.T.S.



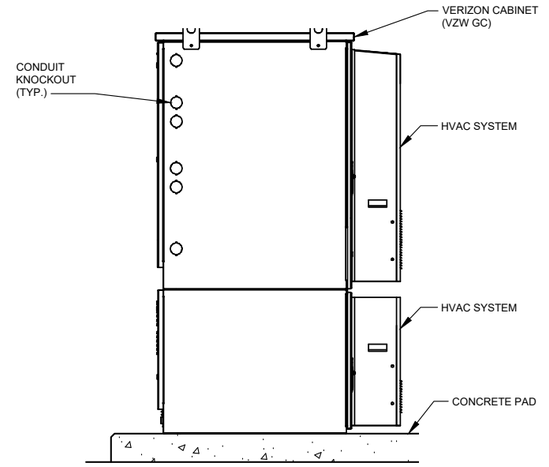
VERIZON CABINET RIGHT ELEVATION — 2 / E-6

SCALE: N.T.S.



VERIZON CABINET REAR ELEVATION — 3 / E-6

SCALE: N.T.S.



VERIZON CABINET LEFT ELEVATION — 4 / E-6

SCALE: N.T.S.

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CORVATH COMMUNICATIONS
2307 EDISON RD
SOUTH BEND, IN 46615

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A	07/28/26	ISSUED FOR 90% REVIEW
B	10/27/26	SHIFTED LEASE AREA
C	11/02/26	REVISED PER COMMENTS

PRELIMINARY DRAFT NOT FOR CONSTRUCTION, BID, RELIANCE, RECORDING PURPOSES OR IMPLEMENTATION

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EQUIPMENT CABINET ELEVATIONS

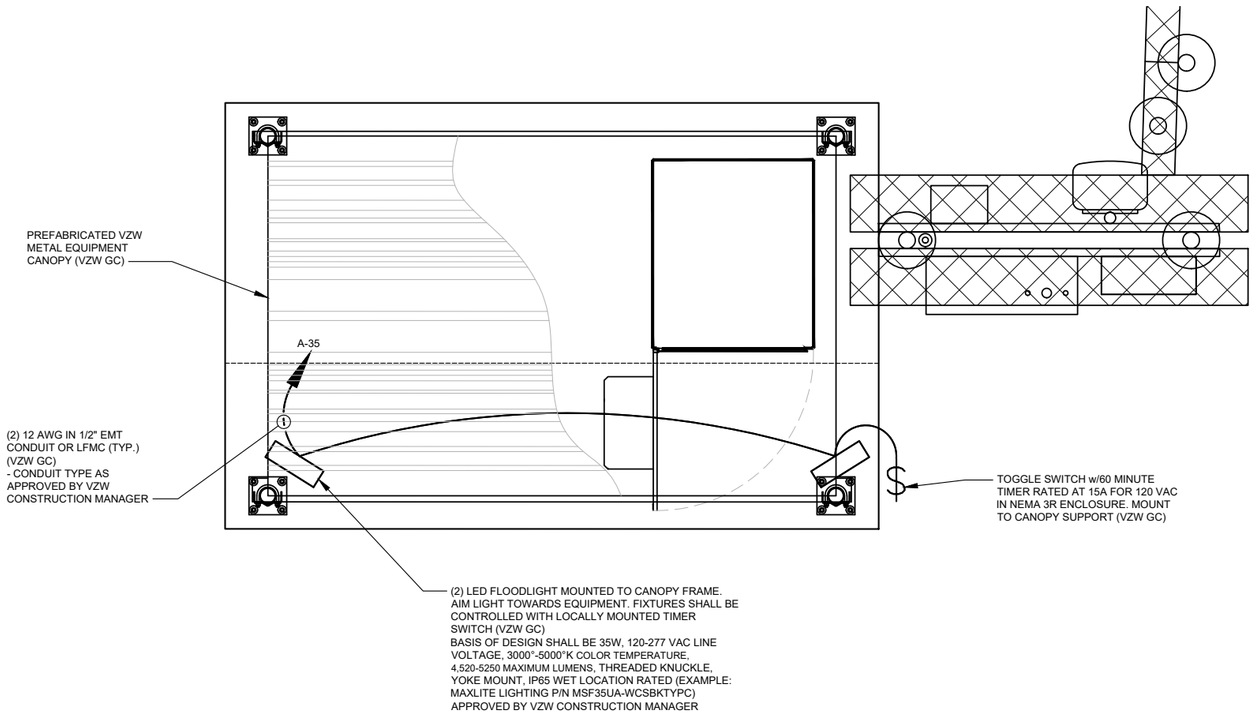
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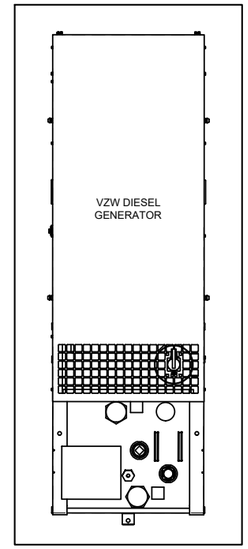
PROJECT MANAGER	DESIGNER
TTP	SEK

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E-6

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EQUIPMENT PAD
LIGHTING PLAN
1
E-7

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EQUIPMENT PAD LIGHTING PLAN

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PROJECT MANAGER	DESIGNER
TTP	SEK

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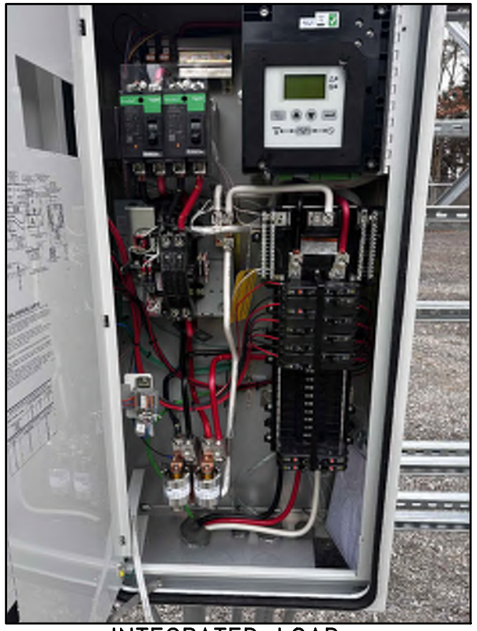
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Alarm wiring table

	RMX - 4000 Wiring Install on right side of panel when facing front of panel				Misc Wiring - left side of panel		
Alarm block Pos	Wire color	Alarm	RMX-4000	Wire Color	Wire Color	Alarm	Conn/Pos
1	White/Orange	Door Intrusion	1-4	White or Blue	Orange	Intrusion Alarm	
2	Orange				White Orange		
3	White/Green	Commercial Power Failure	1-4	White or Blue	N/A	N/A	
4	Green				N/A		
5	White/Blue	Surge Suppressor Lightning Arrestor	1-4	White or Blue	N/A	N/A	
6	Blue				N/A		
7	White/Brown	Rectifier Failure	1-4	White or Blue	Green/White	Rectifier Failure	J4 Pos 8
8	Brown				Red/Green		J4 Pos 18
9	White/Orange	Multiple Rectifier Failure	5-8	Red or Blue	White/Red	Multiple Rectifier Failure	J4 Pos 9
10	Orange				Red/White		J4 Pos 19
11	White/Green	Battery Discharge	5-8	Red or Blue	White	Battery Discharge	J4 Pos 4
12	Green				White/Black		J4 Pos 14
13	White/Blue	Low Voltage	5-8	Red or Blue	Black	Low Voltage	J4 Pos 5
14	Blue				Black/White		J4 Pos 15
15	White/Brown	DC Power Failure	5-8	Red or Blue	Blue/White	Fuse	J4 Pos 6
16	Brown				Red/Black	High Voltage	J4 Pos 20
17	White/Orange	Generator Running	9-12	Black or Blue	N/A	N/A	
18	Orange				N/A		
19	White/Green	Generator Low Fuel	9-12	Black or Blue	N/A	N/A	
20	Green				N/A		
21	White/Blue	Generator Failure	9-12	Black or Blue	N/A	N/A	
22	Blue				N/A		
23	White/Brown	HVAC Failure	9-12	Black or Blue	Black	HVAC Failure	
24	Brown				White/Blue		
25	White/Orange	High Temp	13-16	Yellow or Blue	Green	Overheat Alarm	
26	Orange				White/Green		
27	White/Green	Low Temp	13-16	Yellow or Blue	N/A	N/A	
28	Green				N/A		
29	White/Blue	Tower Light	13-16	Yellow or Blue	N/A	N/A	
30	Blue				N/A		
31	White/Brown	Tower Light Side	13-16	Yellow or Blue	N/A	N/A	
32	Brown				N/A		
33	White/Orange	Raycap Upconverter Failure	17-20	Violet or Blue	White/Blue	RRH Upconverter Failure	
34	Orange				Blue		
35	White/Green	Raycap Power Failure	17-20	Violet or Blue	N/A	N/A	
36	Green				N/A		
37	White/Blue	Raycap High Humidity	17-20	Violet or Blue	N/A	N/A	
38	Blue				N/A		
39	White/Brown	Raycap Intrusion	17-20	Violet or Blue	N/A	N/A	
40	Brown				N/A		
41	White/Orange	Smoke Fire	21-24	Blue	N/A	N/A	
42	Orange				N/A		
43	White/Green	Bus Bar Theft	21-24	Blue	N/A	N/A	
44	Green				N/A		
45	White/Blue	N/A	21-24	Blue	N/A	N/A	
46	Blue				N/A		
47	White/Brown	N/A	21-24	Blue	N/A	N/A	
48	Brown				N/A		
49	White/Orange	Microwave Critical	25-28	Orange or Blue	N/A	N/A	
50	Orange				N/A		
51	White/Green	Microwave Major	25-28	Orange or Blue	N/A	N/A	
52	Green				N/A		
53	White/Blue	Dehydrator Alarm	25-28	Orange or Blue	N/A	N/A	
54	Blue				N/A		
55	White/Brown	Fire Suppression Discharge	25-28	Orange or Blue	N/A	N/A	
56	Brown				N/A		
57	White/Orange	Fire Suppression Trouble	29-32	Green or Blue	N/A	N/A	
58	Orange				N/A		
59	White/Green	Secondary HVAC Running	29-32	Green or Blue	N/A	N/A	
60	Green				N/A		
61	White/Blue	Explosive gas	29-32	Green or Blue	N/A	N/A	
62	Blue				N/A		
63	White/Brown	High Humidity	29-32	Green or Blue	N/A	N/A	
64	Brown				N/A		
65-84	N/A	N/A	N/A	N/A	N/A	N/A	

ALARM WIRING TABLE 1 E-8
SCALE: N.T.S.



INTEGRATED LOAD CENTER INTERIOR DETAIL 2 E-8
SCALE: N.T.S.



INTEGRATED LOAD CENTER "SURGE" & "COMMERCIAL POWER" DETAIL 3 E-8
SCALE: N.T.S.



GENERATOR ALARM PANEL DETAIL 4 E-8
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Alarm wiring for Cabinet

Remove old alarm block and install new panel DRP4722SW

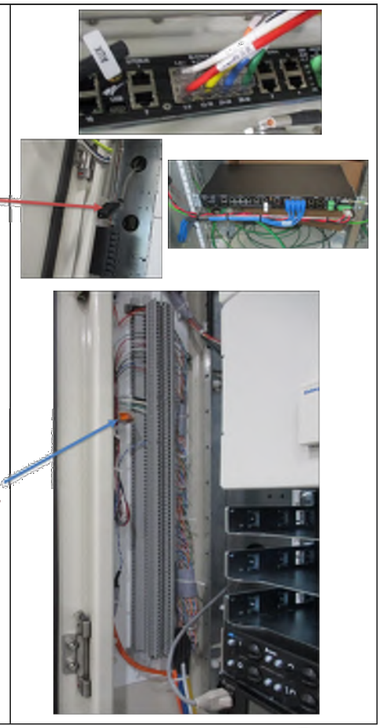
Route wiring from RMX4000 to alarm panel. Wiring will be various colors or all blue as shown

If connector is connected to old alarm block, remove connector and wire to alarm panel

Note: See wiring table on next page

Place alarm block label template on door

Jumper Office Alarm cable wires. Connector J4 position 16 (Blue/Red) and position 10 (Black/red)



ALARM WIRING CONNECTIONS 5 E-8
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ALARMING TABLE, WIRING, DIAGRAMS AND DETAILS (REFERENCE ONLY)

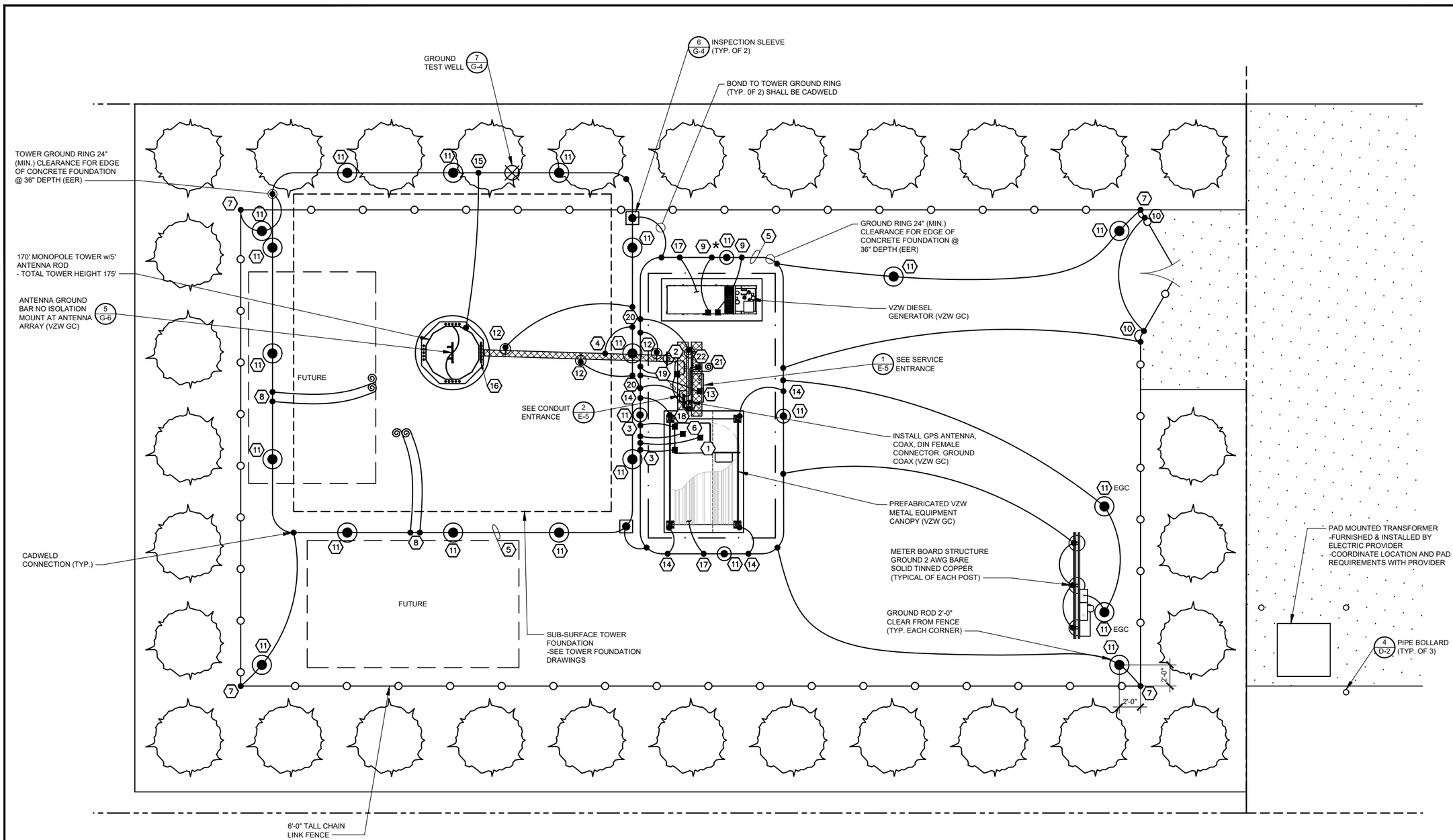
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GROUNDING SITE PLAN

SCALE: N.T.S.

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NOTES:
1. ALL ABOVE GRADE GROUND LEADS TO BE INSTALLED IN 1/2" NON-CONDUCTIVE FLEXIBLE PVC CONDUIT WITH ANTI-THEFT COMPOUND.
2. COORDINATE ICE BRIDGE POST GROUND LEAD INSTALLATION WITH ICE BRIDGE POST LOCATIONS ON SHEET S-1.
3. SEE SHEET G-2 FOR GROUNDING KEYED NOTES.

TOWER GROUND RING NOTES:

1. GROUNDING PLAN SHOWN IS FOR A PAD AND PIER TOWER FOUNDATION. IF THE TOWER OWNER ELECTS TO INSTALL A CAISSON FOUNDATION THE TOWER GROUND RING (EER) WILL BE MODIFIED. THE TOWER GROUND RING (EER) SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS. 24" MIN. CLEARANCE FROM THE TOWER FOUNDATIONS AT 36" MIN. BELOW GRADE.
2. ALL GROUND RODS SHALL BE INSTALLED PER VERIZON WIRELESS STANDARDS.
3. ALL GROUND LEADS DEPICTED ON THIS PLAN SHALL BE MODIFIED TO CONNECT TO THE MODIFIED TOWER GROUND RING (EER) LOCATION.

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GROUNDING SITE PLAN

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G-1

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TOWER OWNER GROUNDING KEYED NOTES

1. BBG: FURN. & INST. 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE FOR BATTERY BAY GROUND (BBG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
2. CEPSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CEPSG POST TO (EER). CONNECTION (EER) SHALL BE CADWELD.
3. CG: FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR CABINET GROUND (CG) TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
4. CSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR ICE BRIDGE CHANNEL TO (EER). CONNECTION (EER) SHALL BE CADWELD.
5. EER: FURN. & INST. 2 AWG BARE SOLID TINNED COPPER BURIED EXTERIOR ELECTRODE GROUND RING (EER) AROUND RADIO EQUIPMENT PAD AND TOWER BURIED AT 36" OR 6" BELOW FROST LINE (WHICHEVER IS GREATER). MAINTAIN 24" FROM EQUIPMENT PAD AND TOWER FOUNDATIONS MINIMUM.
6. FEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR FIBER ENTRANCE GROUND (FEG) TO (TGE). COIL UP 10' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
7. FG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FROM NEW FENCING TO GROUND RING (EER). CONNECTION TO FENCING SHALL BE AT THE BASE OF FENCE POST USING CADWELD AND WEAVE GND. WIRE THRU FABRIC AND ATTACH TO TOP RAIL WITH CADWELD. CONNECTION TO (EER) SHALL BE CADWELD.
8. FTWGL: FURN. & INST. FUTURE TOWER WAVEGUIDE GROUND BAR LEADS. CONTRACTOR SHALL COIL UP TEN (10') OF 2 AWG SOLID TINNED COPPER GROUND (TYP.)
9. GEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE GENERATOR ENCLOSURE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD. *GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY
10. GG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE AT EACH GATE POST AND PROVIDE GROUND WIRE TO BONDING JUMPER FROM GATE POST TO FENCE POST.
11. GRE: FURN. & INST. GROUND RODS TO 36" BELOW FINISH GRADE (OR 6" BELOW FROST LINE, WHICHEVER IS GREATER) AT A MINIMUM SPACING OF 10'-0" AT RADIO EQUIPMENT PAD, TOWER AND SITE EXTERIOR GROUND SYSTEM. CONNECTION TO (EER) SHALL BE CADWELD. REFER TO DETAIL 5 ON SHEET G-4.
12. IBSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM ICE BRIDGE SUPPORT POST TO (EER). CONNECTION (EER) SHALL BE CADWELD. SEE SHEET S-2 FOR ICE BRIDGE POST LOCATIONS.
13. PEG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'ILC' GROUND BAR TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION (EER) SHALL BE CADWELD.
14. PCSG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR EACH PAD CANOPY SUPPORT BASE TO (EER). COIL UP 6' ABOVE GRADE. CONNECTION TO (EER) SHALL BE CADWELD.
15. TBG: FURN. & INST. 1- 2 AWG BARE SOLID TINNED COPPER GND. WIRE FROM TOWER LEG BASE PLATE TO (EER). CONNECTION TO TOWER LEG BASE PLATE SHALL BE CADWELD OR MECHANICAL TO LEG AND (EER) SHALL BE CADWELD.
16. TWG: BY VZW E.C.
17. UG: FURN. & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE (UFER GROUND) FOR PAD FOUNDATION REINFORCEMENT STEEL CONNECTION TO (EER) SHALL BE CADWELD. PROVIDE HEAT SHRINK TUBING OR ELECTRICAL TAPE PROTECTION FOR CONDUCTOR AT TRANSITION BETWEEN CONCRETE AND SOIL.
18. OGA: BY VZW E.C.
19. OGL: BY VZW E.C.
20. OHG: FURN. & INST. 2 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE FOR THE 'OVP' H-FRAME TO (EER). (TYP. OF 2 POSTS). CONNECTION (EER) SHALL BE CADWELD.
21. OSF: BY VZW E.C.
22. OSG: BY VZW E.C.

TOWER OWNER GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE TOWER OWNER E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE TOWER OWNER E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE TOWER OWNER E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O).
4. UPON COMPLETION OF THE EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUND RING, THE TOWER OWNER E.C. SHALL MEGGER TEST THIS GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE TOWER OWNER E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE TOWER OWNER E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE TOWER OWNER E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE TOWER OWNER E.C. SHALL BOND THE EQUIPMENT PAD RING TO THE TOWER RING. THE TOWER OWNER E.C. SHALL NOTIFY VERIZON WIRELESS CONSTRUCTION MANAGER AND TOWER OWNER CONSTRUCTION MANAGER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
5. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
6. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
7. ALL EQUIPMENT PAD AND EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.
8. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
9. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
10. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
EGC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEC	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
OSF	OPTICAL FIBER FUTURE SERVICE GROUND
OSG	OPTICAL FIBER SERVICE GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
	CABLE TO CABLE CADWELD CONNECTION
	CABLE TO GND. ROD CADWELD CONNECTION
	TEST WELL
	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

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GROUNDING NOTES

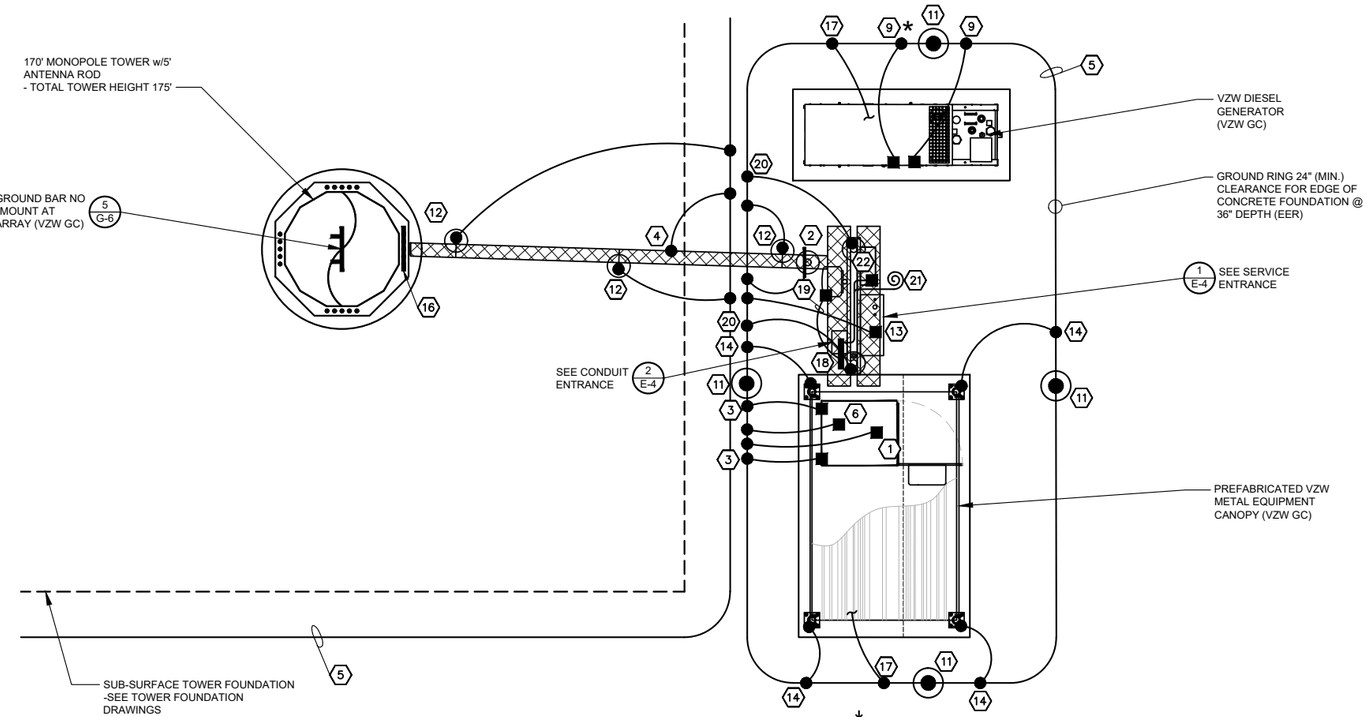
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PROJECT MANAGER	DESIGNER
TTP	SEK

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VERIZON WIRELESS GROUNDING PLAN

SCALE: N.T.S.

LEGEND	
BBG	BATTERY BAY GROUND
CEPSG	COAX ENTRY PROTECTION SYSTEM GROUND
CG	CABINET GROUND
CSG	CABLE SUPPORT GROUND
EER	BURIED EXTERIOR ELECTRODE GROUND RING
EGC	EQUIPMENT GROUNDING CONDUCTOR (NEC DESIGNATION)
FEG	FIBER ENTRANCE GROUND
FG	FENCE GROUND
FTWGL	FUTURE TOWER WAVEGUIDE GROUND LEAD
GEC	GROUNDING ELECTRODE CONDUCTOR (NEC DESIGNATION)
GEG	GENERATOR ENCLOSURE GROUND
GES	GROUNDING ELECTRODE SYSTEM (NEC DESIGNATION)
GG	GATE GROUND
GRE	GROUND ROD ELECTRODE
IBSG	ICE BRIDGE SUPPORT GROUND
OGA	OVP GROUND ASSEMBLY
OGL	OVP GROUND LEAD
OHG	OVP H-FRAME SUPPORT GROUND
OSF	OPTICAL FIBER FUTURE SERVICE GROUND
OSG	OPTICAL FIBER SERVICE GROUND
PEG	POWER ENTRANCE GROUND
PCSG	PAD CANOPY SUPPORT GROUND DOWN LEAD
TBG	TOWER BASE GROUND
TWG	TOWER WAVEGUIDE GROUND ASSEMBLY
UG	UFER GROUND (PIER FOUNDATION)
●	CABLE TO CABLE CADWELD CONNECTION
◉	CABLE TO GND. ROD CADWELD CONNECTION
⊠	TEST WELL
◘	INSPECTION PORT CABLE TO CABLE CADWELD CONNECTION

VERIZON WIRELESS GROUNDING KEYED NOTES

1. BBG: VZW E.C. SHALL CONNECT THE 1 - 2/0 AWG INSULATED STRANDED COPPER GND. WIRE COILED UP BY THE TOWER OWNER E.C. FOR THE BATTERY BAY GROUND (BBG). CONNECTION TO THE GROUND BAR IN THE BATTERY BAY SHALL BE MECHANICAL. ROUTE LEAD IN LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
2. CEPSG: VZW E.C. SHALL FURNISH & INSTALL A THEFT DETERRENT GROUND POST ASSEMBLY FOR THE COAX ENTRY PROTECTION SYSTEM TO THE POST. CONNECT THE 2 AWG BARE SOLID TINNED COPPER COILED UP BY TOWER OWNER E.C. TO THE POST. THE CONNECTION TO POST SHALL BE CADWELD. SEE DETAIL 1 & 4 ON SHEET G-5 FOR DETAILS.
3. CG: VZW E.C. SHALL FURNISH & INSTALL TWO HOLE LONG BARREL LUGS ON EXISTING 2 AWG BARE TINNED COPPER LEADS. VZW E.C. SHALL FURNISH & INSTALL DRAGON TOOTH WASHERS AND #8 STAINLESS STEEL FASTENERS ON ALL EQUIPMENT CABINET EXTERIOR GROUND LOCATIONS (TYP. 2 PER CABINET). REMOVE ALL SURFACE PAINT AND USE ANTIOXIDENT COMPOUND BETWEEN METAL AND WASHER. ALL LEADS SHALL BE DRESSED TO REDUCE TRIP HAZARDS. DETAIL 3 ON SHEET G-5 FOR DETAILS.
4. CSG: BY TOWER OWNER E.C.
5. EER: BY TOWER OWNER E.C.
6. FEG: VZW E.C. SHALL BRING THE 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR (FIBER ENTRANCE GROUND) INTO THE POWER PLANT CABINET AND MAKE A MECHANICAL CONNECTION TO THE FIBER SERVICE GROUND POINT. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
7. FG: BY TOWER OWNER E.C.
8. FTWGL: BY TOWER OWNER E.C.
9. GEG: VZW E.C. SHALL CONNECT THE 1 - 2 AWG BARE SOLID TINNED COPPER GND. WIRE COILED UP BY TOWER OWNER E.C. FOR THE GENERATOR ENCLOSURE. CONNECTION TO GENERATOR ENCLOSURE SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND. *GENERATOR SERVICE GROUND WHERE REQUIRED BY JURISDICTION HAVING AUTHORITY
10. GG: BY TOWER OWNER E.C.
11. GRE: BY TOWER OWNER E.C.
12. IBSG: BY TOWER OWNER E.C.
13. PEG: VZW E.C. SHALL CONNECT 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR THE POWER ENTRANCE GROUND (PEG) COILED UP BY TOWER OWNER E.C. CONNECTION OF THE COILED WIRE TO THE INTEGRATED LOAD CENTER GROUND BAR SHALL BE MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
14. PCSG: VZW E.C. SHALL CONNECT SOLID TINNED COPPER ONE HOLE GROUND TAB TO COILED UP GROUND WIRE BY TOWER OWNER E.C. WITH AN EXOTHERMIC CONNECTION. THE CONNECTION OF THE COILED GROUND WIRE AND LUG TO THE CANOPY SUPPORT BASE SHALL BE MECHANICAL. SEE DETAIL 3 ON SHEET G-5. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
15. TBG: BY TOWER OWNER E.C.
16. TWG: VZW E.C. SHALL FURN. & INST. THEFT DETERRENT GROUND ASSEMBLY KIT PART #TDSGABC14 FOR THE TOWER WAVEGUIDE GROUND (TWG) DIRECTLY TO THE TOWER (SEE SITE SPECIFIC GROUNDING PLAN OF DESIGN DRAWINGS).
17. UG: BY TOWER OWNER E.C.
18. OGA: VZW E.C. SHALL FURN. & INST. THE GROUND BAR FOR THE OVP GROUND (OGL) DIRECTLY TO THE OVP H-FRAME POST. SEE DETAIL 4 ON SHEET G-6.
19. OGL: VZW E.C. SHALL FURN. & INST. 1 - 6 AWG GREEN INSULATED STRANDED COPPER GND. WIRE FROM OVP GROUND POINT TO OVP GROUND ASSEMBLY (OGA). CONNECTION TO GROUND BAR SHALL BE MECHANICAL.
20. OHG: BY TOWER OWNER E.C.
21. OSF: VZW E.C. SHALL FURN & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR THE FUTURE "LIT FIBER" SERVICE PROVIDER NETWORK INTERFACE DEVICE. E.C. SHALL PROVIDE MIN. 8' COIL ABOVE GRADE. CONNECTION OF THE COILED WIRE TO THE OVP GROUND ASSEMBLY SHALL BE 2-HOLE LUG MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.
22. OSG: VZW E.C. SHALL FURN & INST. 1 - 2 AWG BARE SOLID TINNED COPPER GND WIRE FOR THE "LIT FIBER" SERVICE PROVIDER JUNCTION BOX. CONNECTION OF THE GND WIRE TO THE "LIT FIBER" JUNCTION BOX AND OVP GROUND ASSEMBLY SHALL BE 2-HOLE LUG MECHANICAL. ROUTE LEAD IN FLEXIBLE NONMETALLIC CONDUIT w/ANTI-THEFT COMPOUND.

VERIZON WIRELESS GROUNDING NOTES

1. ALL UNDERGROUND CONNECTIONS ON THE LIGHTNING PROTECTION SYSTEM SHALL BE EXOTHERMIC WELDED USING THE CADWELD PROCESS. THE VZW E.C. AND GENERAL CONTRACTOR E.C. SHALL FURN. & INST. ALL THESE CONNECTIONS, INCLUDING WELD METALS, MOLDS AND TOOLS. THE E.C. SHALL FURN. & INST. 5/8" x 10' COPPER CLAD STEEL (COPPER JACKET 0.0012" MIN.) GROUND RODS, DRIVEN VERTICAL TO 36" BELOW FIN. GRADE (OR 6" BELOW FROSTLINE, WHICHEVER IS GREATER) @ 10'-0" O.C. MINIMUM.
2. THE VZW E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE EQUIPMENT PAD (EER) AND ICE BRIDGE (CSG).
3. THE GENERAL CONTRACTOR E.C. SHALL FURN. & INST. 2 AWG BARE SOLID TINNED COPPER GND. WIRE AT A DEPTH OF 36" BELOW FIN. GRADE FOR THE TOWER (EER), FUTURE TOWER WAVEGUIDE GROUND LEADS (FTWGL), GATE GROUND (GG), FENCE (FG), TOWER BASE GROUND (TBG) AND TOWER WAVEGUIDE GROUND (TWG).
4. ALL EXTERIOR GND. CONNECTIONS SHALL BE EXOTHERMIC CADWELD (U.N.O.).
5. ALL CRIMP LUG CONNECTIONS TO ALL GROUND BARS SHALL BE LUBRICATED WITH A CORROSION INHIBITER ("OXY-GREASE") OR APPROVED EQUAL.
6. UPON COMPLETION OF THE TOWER GROUNDING RING, THE GENERAL CONTRACTOR E.C. SHALL MEGGER TEST THE COUMPOUND GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE GENERAL CONTRACTOR E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE GENERAL CONTRACTOR E.C. SHALL SUBMIT PRICING TO TOWER OWNER FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM TOWER OWNER, THE GENERAL CONTRACTOR E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THE GENERAL CONTRACTOR E.C. SHALL NOTIFY TOWER OWNER 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
7. UPON COMPLETION OF THE RADIO EQUIPMENT PAD GROUNDING RING AND BEFORE BONDING TO THE TOWER GROUNDING RING, THE VZW E.C. SHALL MEGGER TEST THE EQUIPMENT PAD GROUNDING FIELD. THE REQUIRED RESISTANCE LEVEL IS 5 OHMS OR LESS. THE VZW E.C. SHALL NOTIFY THE ENGINEER IF THESE REQUIREMENTS ARE NOT ACHIEVED. THE VZW E.C. SHALL SUBMIT PRICING TO VERIZON WIRELESS FOR THE INSTALLATION OF ADDITIONAL GROUND RODS REQUIRED FOR PROPER RESISTANCE. UPON APPROVAL FROM VERIZON WIRELESS, THE VZW E.C. SHALL INSTALL ADDITIONAL GROUND RODS AS REQUIRED. AFTER PASSING TEST, THEN THE VZW E.C. SHALL BOND THE RADIO EQUIPMENT PAD GROUND RING TO THE TOWER GROUND RING. THE VZW E.C. SHALL NOTIFY VERIZON WIRELESS 48 HOURS PRIOR TO BACKFILLING TRENCHES, POURING CONCRETE FOR FOUNDATIONS, TO INSPECT BONDS AND INSPECT ANY/ALL BREAKS AND REPAIRS TO THE GROUND RING.
8. GROUND SYSTEM SHALL BE VISUALLY INSPECTED BY A TOWER OWNER AND VERIZON WIRELESS CONSTRUCTION ENGINEER BEFORE BACKFILLING IF REQUESTED.
9. GROUND ASSEMBLIES SHALL BE THEFT DETERRENT DESIGN AS MANUFACTURED BY ERICO INC. AND FURNISHED BY VERIZON WIRELESS. PROVIDE TWO (2) LUG HOLES PER VERIZON WIRELESS STANDARDS. UNLESS NOTED OTERWISE.
10. ALL ABOVE GROUND BARE COPPER CONDUCTORS BELOW 10' ABOVE GRADE SHALL BE INSTALLED IN FLEXIBLE PVC CONDUIT. CONDUIT SHALL BE FILLED WITH THEFT DETERRENT COMPOUND (ELECTRIC MOTION COMPANY ANTI-THEFT COMPOUND EM-5101).
11. BARE COPPER CONDUCTORS SHALL NOT BE INSTALLED WHERE THEY MAY BE IN CONTACT WITH GALVANIZED METALS. THE CONDUCTORS SHALL BE INSULATED OR ENCLOSED IN PVC CONDUIT, PLASTIC SEALTIGHT OR INSTALLED WITH STANDOFF SUCH THAT NO CONTACT BETWEEN DISSIMILAR METALS MAY TAKE PLACE.
12. CONNECTION OF COPPER CONDUCTORS TO GALVANIZED METAL OR ALUMINUM SHALL BE AVOIDED. BRASS OR STAINLESS STEEL LUGS OR BARS SHALL BE USED FOR THESE CONNECTIONS.
13. NO SHARP 90° BENDS SHALL BE USED. A LONG SWINGING RADIUS BEND REQUIRED.
14. ALL GROUNDING SHALL BE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS.

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CORVATH COMMUNICATIONS
2307 EDISON RD
SOUTH BEND, IN 46615

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VERIZON WIRELESS GROUNDING PLAN AND NOTES

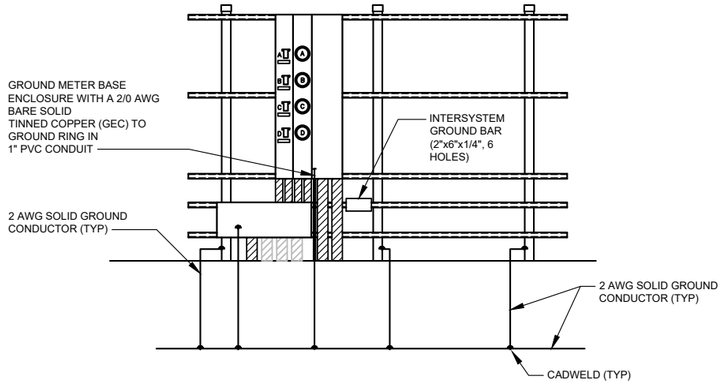
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TTP	SEK

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G-3

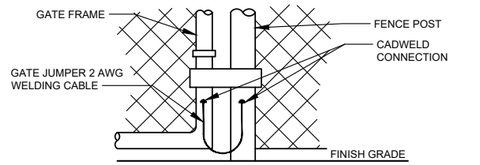
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METER BOARD STRUCTURE GROUNDING

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

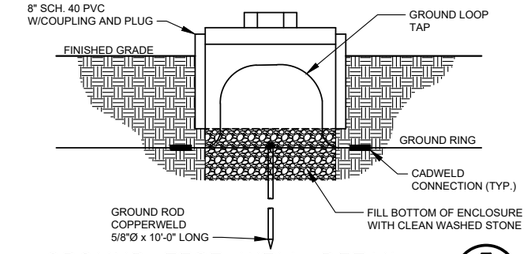
1 G-4



GATE GROUNDING DETAIL

SCALE: N.T.S.

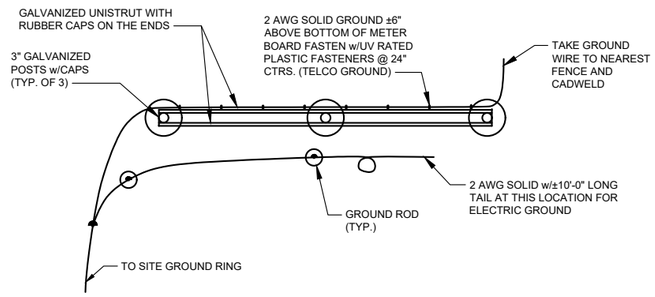
4 G-4



GROUND TEST WELL DETAIL

SCALE: N.T.S.

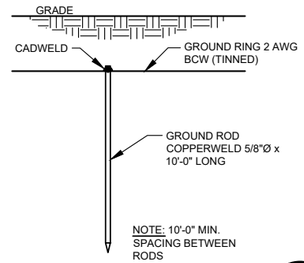
7 G-4



METER BOARD STRUCTURE GROUND PLAN

SCALE: N.T.S.

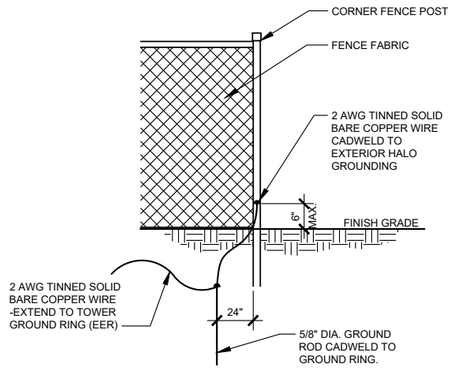
2 G-4



GROUND ROD DETAIL

SCALE: N.T.S.
(TYP. FOR CONTRACTOR AND VZW GC)

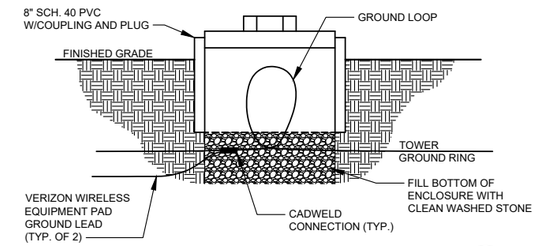
5 G-4



FENCE GROUNDING DETAIL

SCALE: N.T.S.

3 G-4



INSPECTION SLEEVE DETAIL

SCALE: N.T.S.

6 G-4

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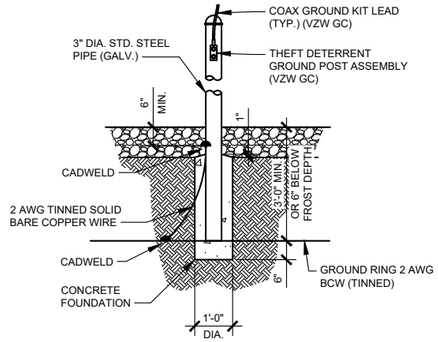
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TTP	SEK

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G-4

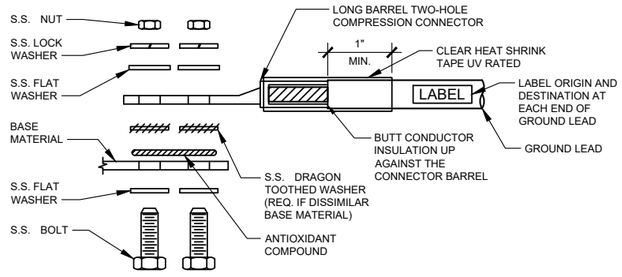
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THEFT DETERRENT POST MOUNT GROUND DETAIL (CEPSG)

1 / G-5

SCALE: N.T.S.
(BY VZW GC)

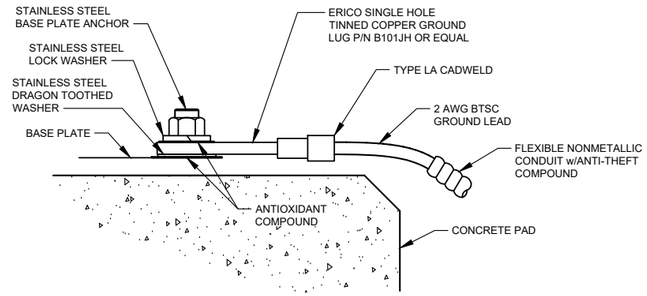


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. CHOOSE BOLT LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. BACK TO BACK LUG CONNECTIONS ARE ACCEPTABLE WHEN BONDED TO A GROUND BAR OR STEEL OBJECT.
4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
5. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AND ABRASIVE STYLE TOOL.
6. No-Ox-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
7. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
8. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

GROUND LUG INSTALLATION DETAIL

2 / G-5

SCALE: N.T.S.

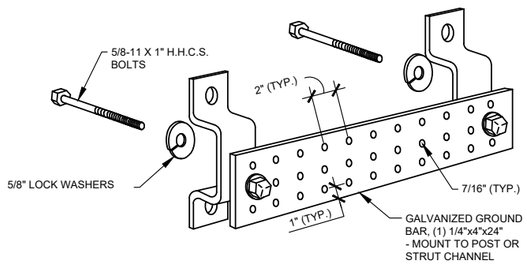


1. ALL HARDWARE SHALL BE 18-8 STAINLESS STEEL.
2. INSTALL ANCHOR LENGTH TO ALLOW EXPOSURE OF AT LEAST TWO THREADS.
3. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER SHALL BE USED BETWEEN THE CONNECTOR AND METAL.
4. IF NO DRAGON TOOTH WASHER IS USED, THOROUGHLY REMOVE A SECTION OF THE COATING APPROXIMATELY THE SIZE OF THE CONNECTOR WITH AND ABRASIVE STYLE TOOL.
5. No-Ox-ID ANTI-OXIDATION COMPOUND (SANCHEM) SHALL BE USED AT ALL COPPER TO COPPER CONNECTIONS.
6. A ZINC BASED (GRAY COLORED) ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO STEEL CONNECTIONS.
7. PENTROX OR EQUAL ANTI-OXIDATION COMPOUND SHALL BE USED AT ALL COPPER TO ALUMINUM CONNECTIONS.

GROUND LUG TO BASEPLATE INSTALLATION DETAIL

3 / G-5

SCALE: N.T.S.



OVP GROUND ASSEMBLY (OGA)

4 / G-5

SCALE: N.T.S.
(BY VZW GC)

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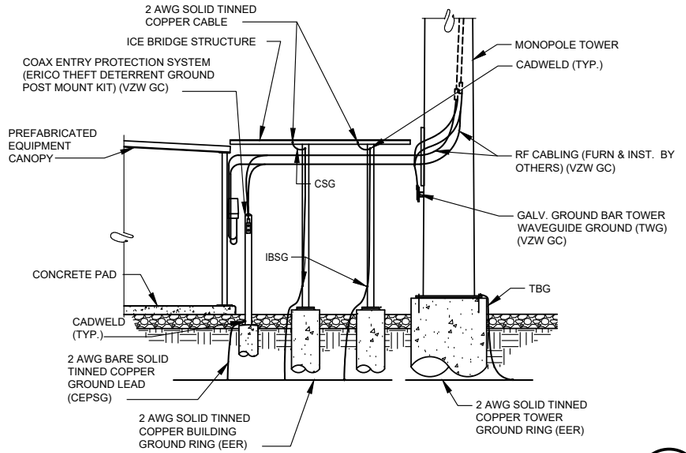
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G-5

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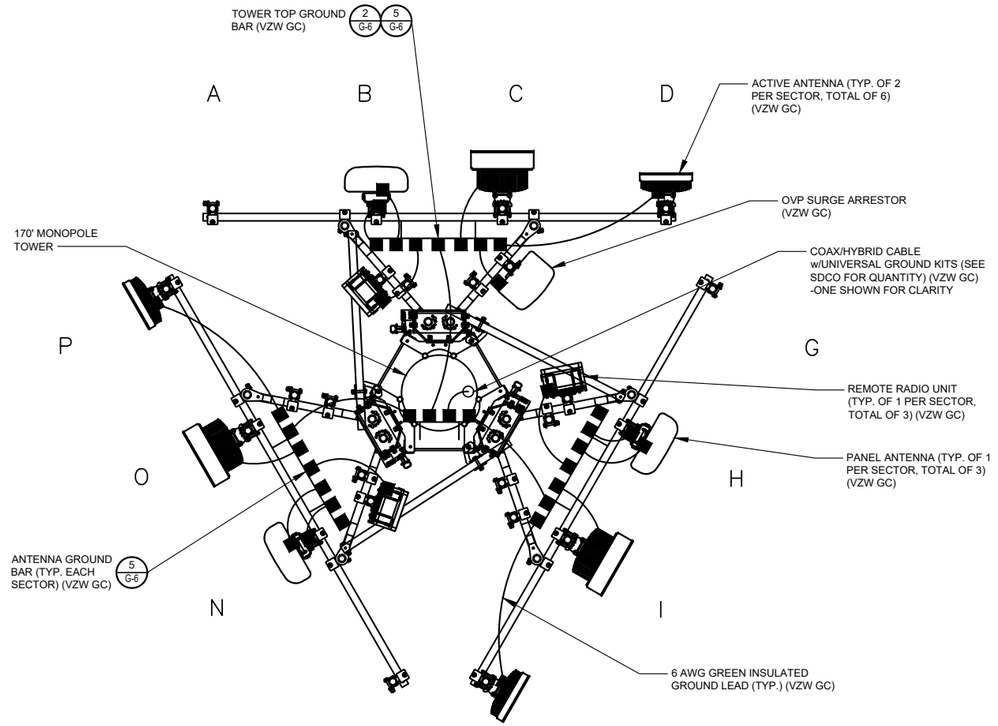
NOTE:
GROUNDING RING DOES NOT PENETRATE SHELTER, TOWER OR ICE BRIDGE FOUNDATIONS REFER TO ELECTRICAL SITE PLAN



INTERIOR/EXTERIOR GROUNDING DETAIL

SCALE: N.T.S.

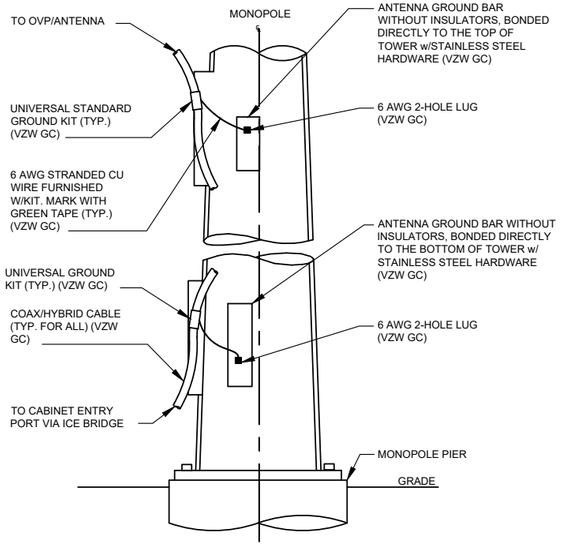
1 / G-6



ANTENNA LEVEL GROUNDING PLAN

SCALE: N.T.S.

3 / G-6

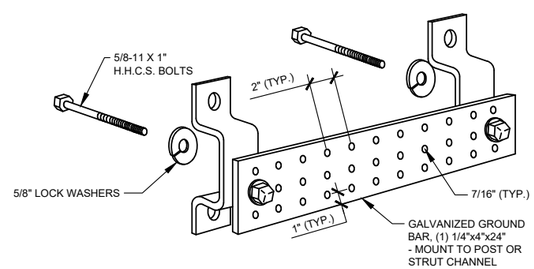


NOTE:
1. NUMBER OF GROUNDING BARS MAY VARY DEPENDING ON THE TYPE OF TOWER, ANTENNA LOCATIONS AND CONNECTION ORIENTATION. PROVIDE AS REQUIRED (VZW GC)
2. INSTALL UNIVERSAL GROUND KITS AT ALL GROUND BAR LOCATIONS. (VZW GC)

ANTENNA CABLE GROUNDING INSTALLATION DETAIL

SCALE: N.T.S.

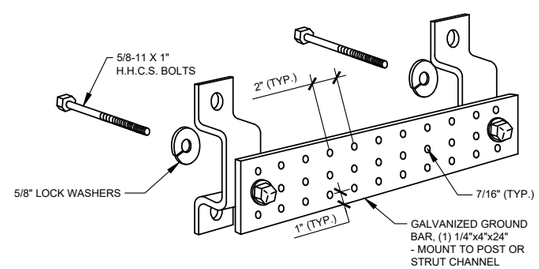
2 / G-6



TOWER BOTTOM GROUND BAR

SCALE: N.T.S.
(BY VZW GC)

4 / G-6



ANTENNA & TOWER TOP GROUND BAR

SCALE: N.T.S.

5 / G-6

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GROUNDING DETAILS

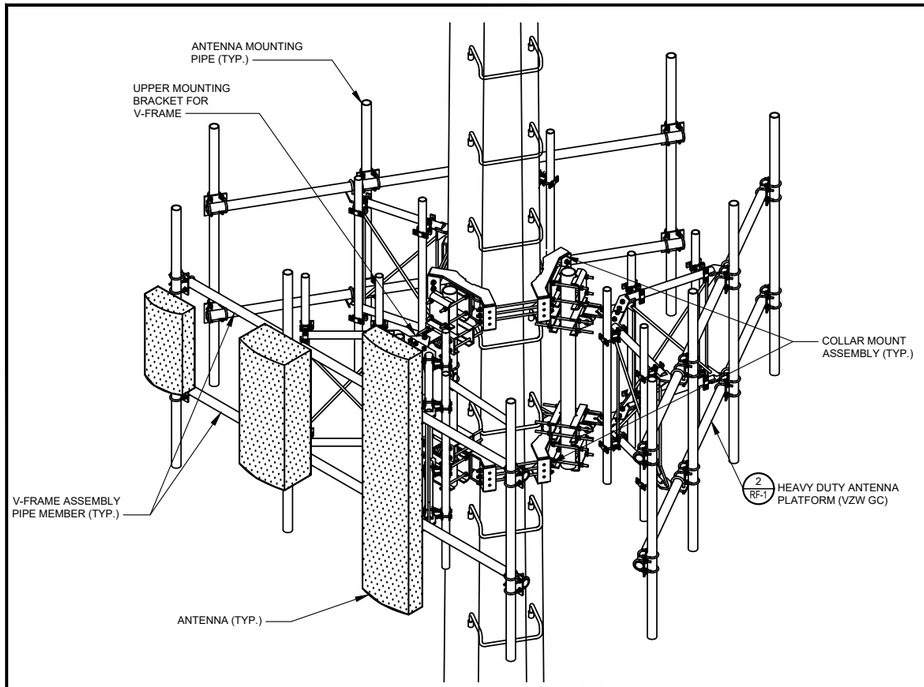
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G-6

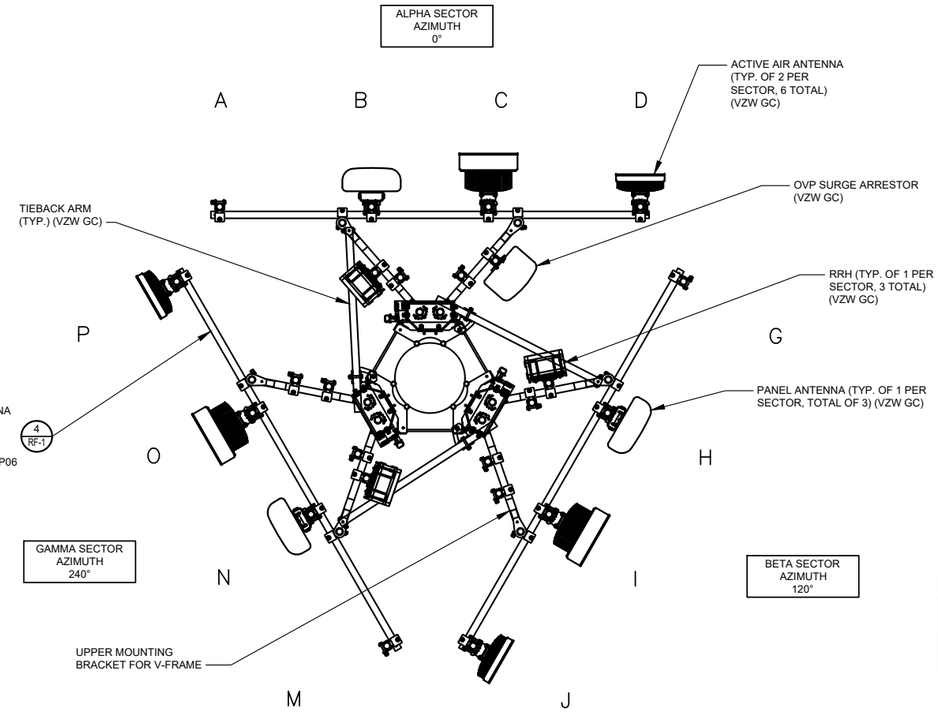
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ANTENNA MOUNT 1 RF-1

SCALE: N.T.S.
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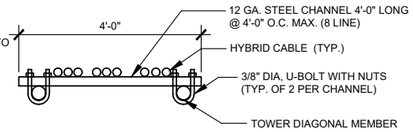
MOUNTING FRAME/EQUIPMENT NOTE:
REFER TO THE VERIZON WIRELESS APPROVED PASSING MOUNT ANALYSIS FOR MOUNT INFORMATION



ANTENNA AND HYBRID CABLES

CONTRACTOR MAY SUBSTITUTE AN ALTERNATE METHOD TO SUPPORT THE HYBRID CABLES, BUT SHALL SUBMIT DETAILING OF THE ALTERNATE METHOD TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE CABLES.

THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE STRUCTURAL ANALYSIS FOR REQUIRED HYBRID CABLE SUPPORT CONFIGURATIONS NOT INDICATED ON THE DETAIL. I.E. BUNDLED CABLES.



HYBRID CABLE SUPPORT DETAIL

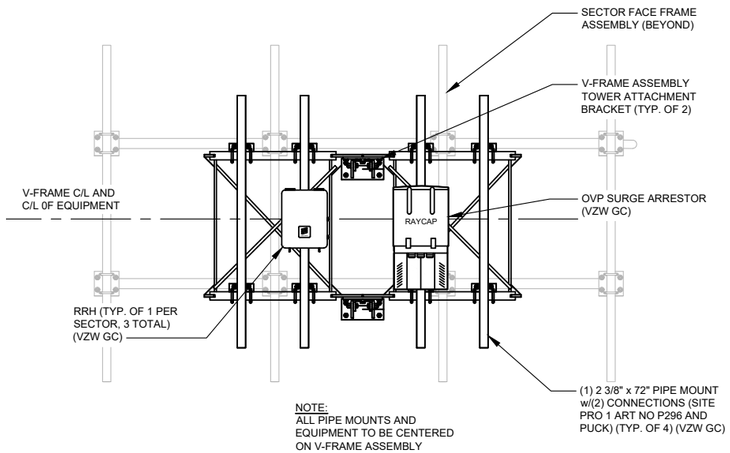
NOTE:
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.

ANTENNA LAYOUT – PLAN VIEW 2 RF-1

SCALE: N.T.S.
(BY VZW GC)

GENERAL NOTES:

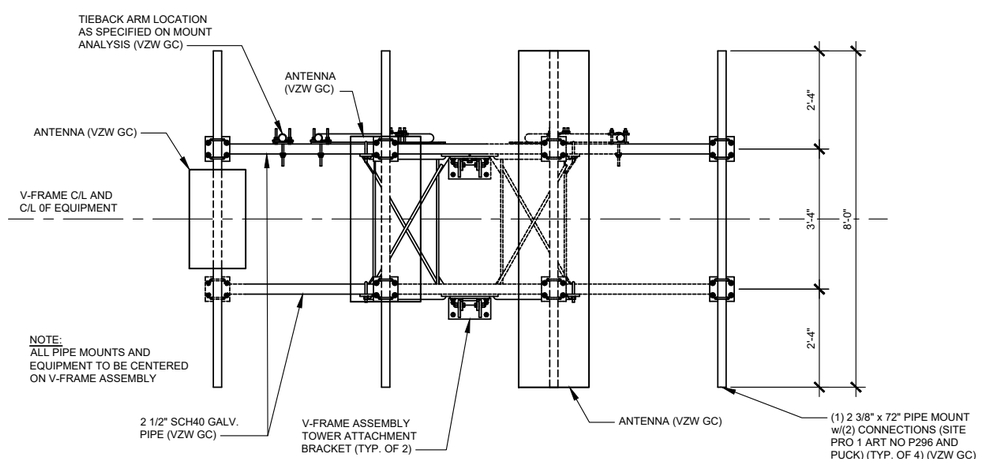
1. VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
2. TAG ALL MAIN CABLES AT TWO (2) LOCATIONS. 1) AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
3. EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
4. HYBRID CABLES TO BE SUPPORTED EVERY 36" OFF MOUNTING FRAMES WITH LOW PIM HANGERS IN ACCORDANCE WITH ME-RFS-ST-21-001.
5. JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH LOW PIM HANGERS IN ACCORDANCE WITH ME-RFS-ST-21-001.



NOTE:
ALL PIPE MOUNTS AND EQUIPMENT TO BE CENTERED ON V-FRAME ASSEMBLY

ANTENNA MOUNT – REAR VIEW (FLATTENED) 3 RF-1

SCALE: N.T.S.
(BY VZW GC)



ANTENNA MOUNT – FRONT VIEW 4 RF-1

SCALE: N.T.S.
(BY VZW GC)

GPD GROUP
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520 South Main Street, Suite 2531
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CORVATH COMMUNICATIONS
2307 EDISON RD
SOUTH BEND, IN 46615

REV.	DATE	DESCRIPTION
A	07/28/26	ISSUED FOR 90% REVIEW
B	10/27/26	SHIFTED LEASE AREA
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PRELIMINARY DRAFT NOT FOR CONSTRUCTION, BID, RELIANCE, RECORDING PURPOSES OR IMPLEMENTATION

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MARNE, MI 49435

ANTENNA PLAN AND DETAILS (REFERENCE ONLY)

ISSUED FOR:	
REVIEW	--/--/--
PERMIT	--/--/--
CONSTRUCTION	--/--/--
RECORD	--/--/--

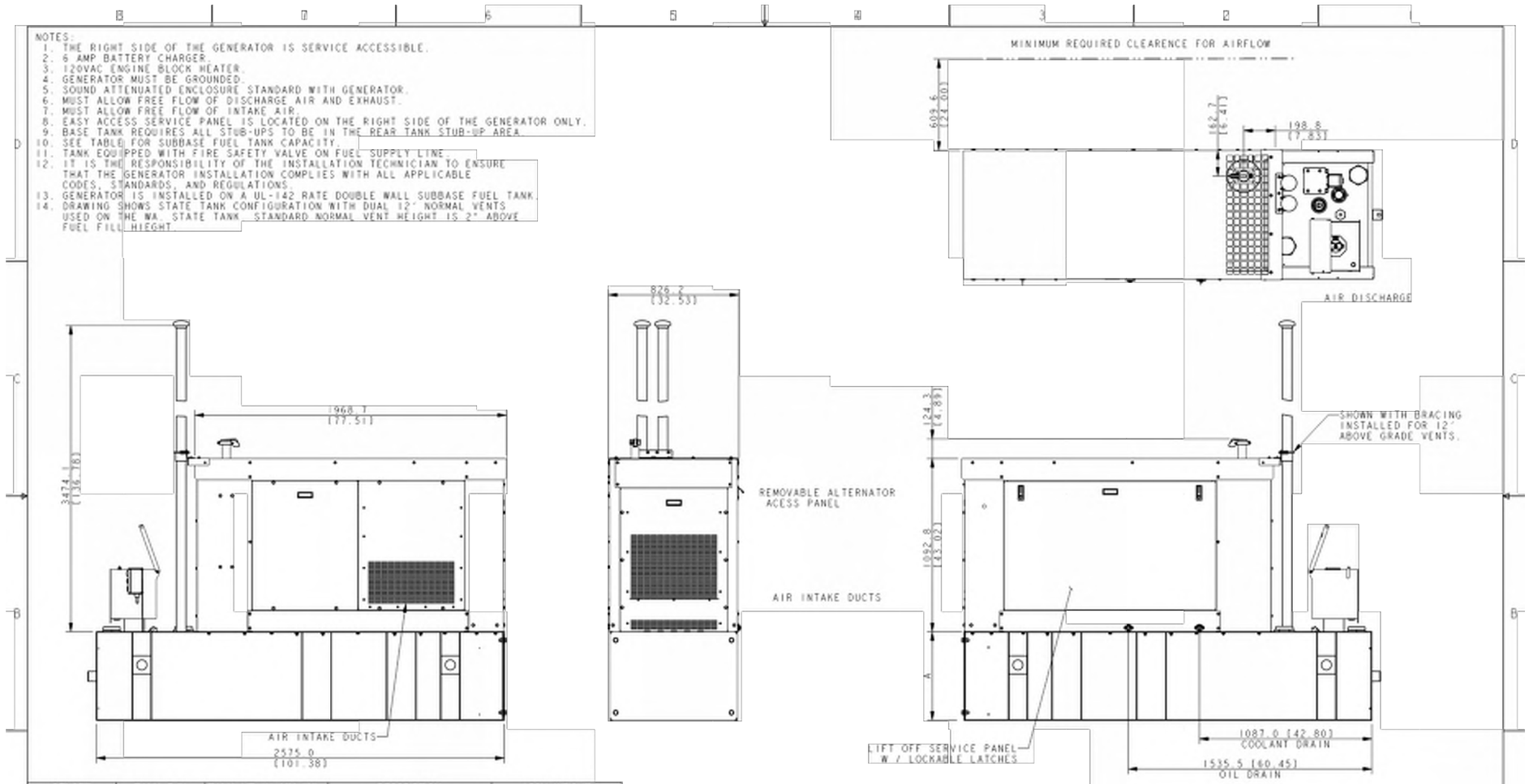
PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2026705.53

RF-1

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NOTES:
1. THE RIGHT SIDE OF THE GENERATOR IS SERVICE ACCESSIBLE.
2. 6 AMP BATTERY CHARGER.
3. 120VAC ENGINE BLOCK HEATER.
4. GENERATOR MUST BE GROUNDED.
5. SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
6. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
7. MUST ALLOW FREE FLOW OF INTAKE AIR.
8. EASY ACCESS SERVICE PANEL IS LOCATED ON THE RIGHT SIDE OF THE GENERATOR ONLY.
9. BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
10. SEE TABLE FOR SUBBASE FUEL TANK CAPACITY.
11. TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
12. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
13. GENERATOR IS INSTALLED ON A UL-142 RATE DOUBLE WALL SUBBASE FUEL TANK.
14. DRAWING SHOWS STATE TANK CONFIGURATION WITH DUAL 12" NORMAL VENTS USED ON THE WA. STATE TANK. STANDARD NORMAL VENT HEIGHT IS 2" ABOVE FUEL FILL HEIGHT.



GENSET	TANK P/N	TANK HT (A) MM (IN)	DESCRIPTION	ASSY WEIGHT
20REOZK	GM99199-MA1	558.8 [22.0]	SKID/WA ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM99199-MA2	736.6 [29.0]	SKID/WA ST TANK 210 GAL	1147 KG [2529 LBS]
20REOZK	GM99199-MA3	736.6 [29.0]	SKID/PH ST TANK 210 GAL	1113 KG [2454 LBS]
20REOZK	GM99199-MA4	736.6 [29.0]	SKID/ST TANK 210 GAL	1079 KG [2379 LBS]
20REOZK	GM99199-MA5	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM99199-MA6	736.6 [29.0]	SKID/MI ST TANK 210 GAL	1079 KG [2379 LBS]
30REOZK	GM99199-MA1	558.8 [22.0]	SKID/WA ST TANK 148 GAL	1051 KG [2316 LBS]
30REOZK	GM99199-MA2	736.6 [29.0]	SKID/WA ST TANK 210 GAL	1212 KG [2671 LBS]
30REOZK	GM99199-MA3	736.6 [29.0]	SKID/PH ST TANK 210 GAL	1179 KG [2600 LBS]
30REOZK	GM99199-MA4	736.6 [29.0]	SKID/ST TANK 210 GAL	1145 KG [2525 LBS]
30REOZK	GM99199-MA5	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
30REOZK	GM99199-MA6	736.6 [29.0]	SKID/MI ST TANK 210 GAL	1145 KG [2525 LBS]

20-30KW KOHLER DIESEL SOUND ENCL W/ LIFT OFF PANEL

NOTE: TANK SHOWN IN THESE DRAWING VIEWS IS CONFIGURED FOR WA. STATE WITH DUAL 120" ABOVE GRADE NORMAL VENTS. THESE ITEMS NOT INCLUDED IN ALL STATE CONFIGURATIONS.

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY
-	2-3-16	NEW DRAWING (CT1383653)	JMS
A	5-4-17	SEE SHEET 2 & 3 FOR CHANGE. (CT1735503)	JMS
B	2-22-18	(A-01 ADDED GM99199-MA6 TO TABLE. (CT1845041	JMS

KOHLER CO. METRIC PRO-E
POWER SYSTEMS, KOHLER, WI 53044 U.S.A.
THIS DRAWING IS DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.

APPROVALS	DATE
JMS	2-3-16
JMS	2-3-16
MLC	2-3-16

DIMENSION PRINT, KDI2504TM
VERIZON ST TANK W/SOUND ENCL

SCALE: 0.09 | SHT: 1 of 3
DWG NO. ADV-8856 | REV: D

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520 South Main Street, Suite 2531
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GENERATOR SPECIFICATIONS (REFERENCE ONLY)

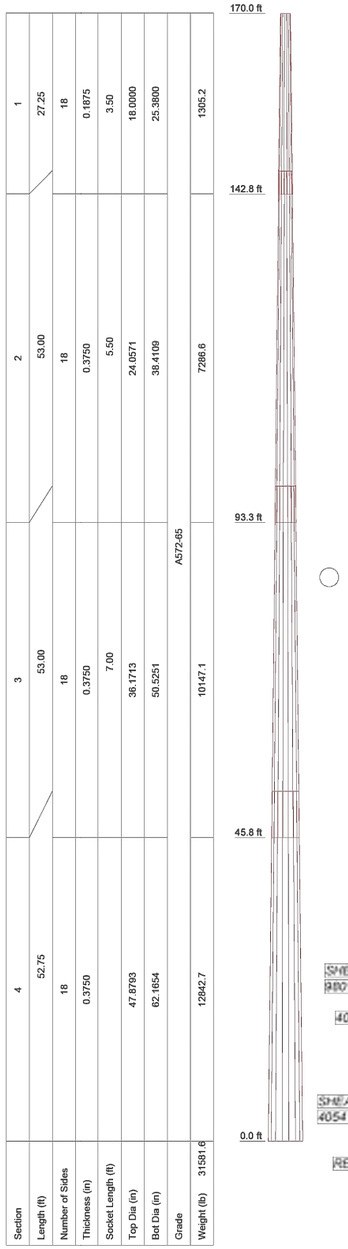
ISSUED FOR:	
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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
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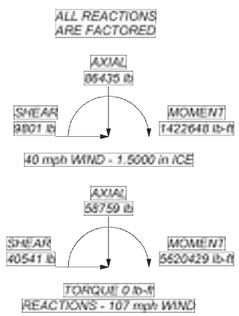
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Section	1	2	3	4
Length (ft)	27.25	53.00	53.00	52.75
Number of Sides	18	18	18	18
Thickness (in)	0.1875	0.3750	0.3750	0.3750
Socket Length (ft)	3.50	5.50	7.00	
Top Dia (in)	18.0000	24.0571	36.1713	47.8793
Bot Dia (in)	25.3800	38.4109	50.5251	62.1654
Grade	A572-65			
Weight (lb)	1305.2	7286.6	10147.1	12842.7

Total Weight (lb): 31581.6



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
42,000 sq in CaAa	170	15,000 sq in CaAa	154
15,000 sq in CaAa	165	15,000 sq in CaAa	144

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 107 mph ultimate wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 40 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 99.4%

NELLO
1201 South Sheridan St.
South Bend, IN 46619
574-288-3632 (phone)
574-288-5860 (fax)
www.nelloinc.com

v3.08

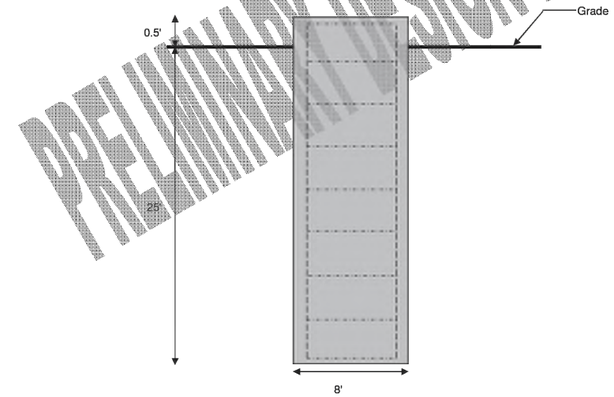
Quote Number: 105456
Tower Model:
Company: Horvath Communications, Inc.
Site Name: HV1768 Lincoln Street
County: Ottawa
State: MI
Date: 06/29/26

Preliminary Design Summary

Foundation Dimensions	
Depth	25'
Pier Extension	0.5'
Pier Diameter	8'
Clear Cover	3"
Bolt Circle Diameter	69.5"
Volume	47.5 cubic yards
Pier Reinforcement	
Quantity	42
Size	#9
Length	300"
Weight	3570.0 lb
Tie Reinforcement	
Quantity	20
Size	#5
Total Length	298.2"
Weight-Total	518.0 lb

Preliminary Design, DO NOT INSTALL
Concrete compressive strength, f'c: 4500 psi
Normal sand soils as defined by ANS/TIA-222-H

* Not to scale, shown with typical reinforcement pattern



PRELIMINARY DESIGN DO NOT INSTALL

Drilled Pier Foundation

Nello Corporation 1201 S. Sheridan Street South Bend, IN. 46619 Phone: 800-806-3556 FAX:	Job: **RFQ105456** Project: Client: Horvath Communications, Inc. — Drawn by: LAN — App'd: Code: TIA-222-H — Date: 06/29/26 — Scale: NTS Path: N:\en\. Proposals\105400\105456.eri — Dwg No. E-1

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PROJECT MANAGER	DESIGNER
TTP	SEK

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TW-1

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South Bend, IN 46619
574-288-3632 (phone)
574-288-5860 (fax)
www.nelloinc.com

PIER - PAD FOUNDATION ESTIMATE

Preliminary Design - Do Not Install

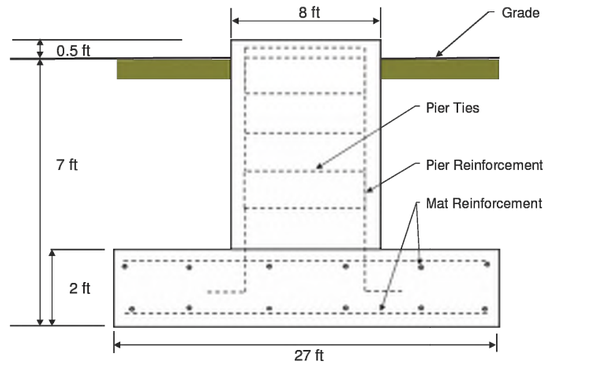
Quote Number:	105456
Tower Model:	NTP 62" X 170'
Company:	Horvath Communications, Inc.
Site Name:	HV1768 Lincoln Street
County:	Ottawa
State:	MI
Date:	06/29/26

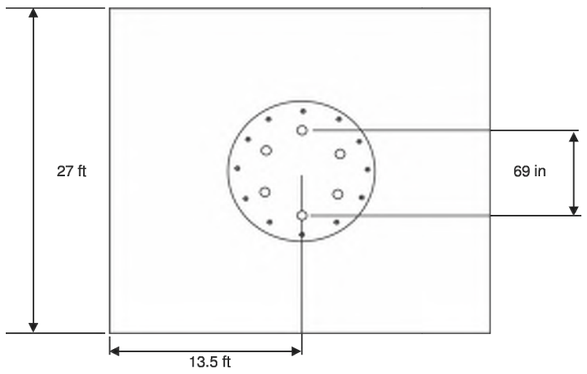
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Foundation estimate for NTP 62" X 170' based on Normal sand soils as defined by ANS/TIA-222-H.

Mat Foundation with Raised Pier

- Concrete Dimensions: 27.0 ft x 27.0 ft x 2.0 ft thick block bearing at 7.0 ft deep with one 8.0 ft diameter raised pier extending 0.5 ft above grade. (64.2 cu yd concrete)
- Mat Reinforcement: 28 #10 rebar per direction per layer, 112 total (12771# total)
- Pier Reinforcement: 28 #11 rebar with hooks per pier, 28 total (1260# total)
- Pier Ties: 6 #5 standard ties per pier, 6 total (156# total)
- Concrete Strength: 4500 psi





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PROJECT MANAGER	DESIGNER
TTP	SEK

JOB NO.
2026705.53

TW-2