



# CLE ELUM DT

200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

## SITE NUMBER: US-WA-5105

LATITUDE 47° 11' 32.69" N (47.192414)

LONGITUDE 120° 56' 12.53" W (-120.936814)

GROUND ELEVATION: 1905.6' AMSL

**T-Mobile**  
CITY OF CLE ELUM/STORAGE FACILITY  
SITE NUMBER: SE09034F

Technology Associates

RFDS: VER: 1  
PROJECT: INFILL/ROB/GREENFIELD



### PROJECT INFORMATION:

**CLE ELUM DT**  
**US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

### ISSUED FOR:

**BUILDING PERMIT**

### REVISION HISTORY:

NO.	DATE:	DESCRIPTION:	CHK. BY:
4	7/15/2020	MINOR REV	BJT
3	3/18/2020	REVISED PER REDLINES	BJT
2	2/25/2020	UPDATED SURVEY ADDED	BJT
1	2/12/2020	ISSUED DESIGN REVIEW	BJT

### PLANS PREPARED BY:

**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**

### DRAWN BY: CHK. BY:

JL

BJ

### LICENSURE:



### DRAWING INFORMATION:

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

### DRAWING TITLE:

**TITLE SHEET**

### DRAWING NUMBER:

**T-1**

GENERAL LOCATION MAP	DRIVING DIRECTIONS	PROJECT TEAM	PROJECT DESCRIPTION	DRAWING INDEX
	FROM T-MOBILE BOTHELL 4 OFFICE:  1. DEPART SOUTH ON NORTH CREEK PKWY 0.3 MI 2. TURN RIGHT ONTO NE 195TH ST 0.3 MI 3. TAKE RAMP LEFT FOR I-405 SOUTH TOWARD RENTON 12.9 MI 4. AT EXIT 11, TAKE RAMP RIGHT FOR I-90 EAST TOWARD SPOKANE 73.4 MI 5. AT EXIT 84, TAKE RAMP RIGHT TOWARD CLE ELUM / S. CLE ELUM 0.5 MI 6. KEEP STRAIGHT ONTO W 1ST ST / 1ST ST W 0.8 MI 7. TURN RIGHT ONTO N OAKS AVE 348 FT 8. ROAD NAME CHANGES TO S OAKES AVE 0.2 MI 9. TURN RIGHT ONTO S PENNSYLVANIA AVE 85 FT  ARRIVE AT 200 S PENNSYLVANIA AVE, CLE ELUM, WA 98922	PROPERTY OWNER: CITY OF CLE ELUM  PROJECT MANAGER: TAEC BARBARA CHANEY 9725 THIRD AVE NE, SUITE 410 SEATTLE, WA 98115 PHONE: (206) 310-0477 barbara.chaney@taec.net  CONSTRUCTION MANAGER: TAEC KEVIN KITCH 9725 THIRD AVE NE, SUITE 410 SEATTLE, WA 98115 PHONE: (425) 306-3909 kevin.kitch@taec.net  SITE ACQUISITION: TAEC MEGHAN HOWEY 9725 THIRD AVE NE, SUITE 410 SEATTLE, WA 98115 PHONE: (253) 682-8556 meghan.howey@taec.net	VERTICAL BRIDGE PROPOSES TO CONSTRUCT AN UNSTAFFED TELECOMMUNICATIONS FACILITY CONSISTING OF BTS EQUIPMENT LOCATED IN 50' x 50' CHAIN LINK FENCED COMPOUND ON PRIVATE PROPERTY WITH ANTENNAS LOCATED ON A NEW 160' AGL STEEL MONOPOLE.  <b>PROJECT INFORMATION</b>  THIS IS UNSTAFFED AND RESTRICTED EQUIPMENT AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF PROVIDING PUBLIC CELLULAR SERVICE. T-MOBILE CERTIFIES THAT THIS TELEPHONE EQUIPMENT FACILITY WILL BE SERVICED ONLY BY T-MOBILE EMPLOYEES AND THE WORK ASSOCIATED WITH ANY EQUIPMENT CANNOT BE PERFORMED BY HANDICAPPED PERSONS. THIS FACILITY WILL BE FREQUENTED ONLY BY SERVICE PERSONNEL FOR REPAIR PURPOSES. PURSUANT TO THE AMERICANS WITH DISABILITIES ACT (ADA), APPENDIX B SECTION 4.11. (5)(b), THIS FACILITY IS EXEMPT FROM THAT ACT. NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION. NO WASTE WATER OR SOLID WASTE WILL BE GENERATED AT THIS LOCATION. T-MOBILE MAINTENANCE CREW (ONE PERSON) WILL MAKE AN AVERAGE OF ONE TRIP PER MONTH AT ONE HOUR PER TRIP.	T-1 TITLE SHEET & PROJECT DATA G-1 GENERAL NOTES A-1 OVERALL SITE PLAN A-1.1 SITE PLAN A-1.2 ENLARGED SITE PLAN A-2 SITE ELEVATION A-3 BTS EQUIPMENT DETAILS A-4 GENERAL DETAILS A-5 GENERAL DETAILS A-6 GENERAL DETAILS A-7 GENERAL DETAILS A-8 GENERAL DETAILS A-9 FENCE DETAILS A-9 FENCE DETAILS A-10 GENERATOR DETAILS SV1 LAND SURVEY (BY OTHERS) E-1 ELECTRICAL SITE PLAN E-1.1 ELECTRICAL DETAILS E-2 ELECTRICAL GROUNDING PLAN E-3 ELECTRICAL GROUNDING DETAILS RF-1 RF DETAILS RF-2 RF DETAILS
	ZONING INFORMATION	ZONING: TAEC MEGHAN HOWEY 9725 THIRD AVE NE, SUITE 410 SEATTLE, WA 98115 PHONE: (253) 682-8556 meghan.howey@taec.net  RF ENGINEER: T-MOBILE GREG APELO 19807 NORTH CREEK PKWY N BOTHELL, WA 98011 602-554-7141  SURVEYOR: DUNCANSON COMPANY 145 SW 155TH STREET, SUITE 102 SEATTLE, WA 98166 PHONE: (206) 244-4141  CONSULTING ENGINEER: B.J. THOMAS, P.E. 7607 80TH AVE NE MARYSVILLE, WA 98270 PHONE: 206-851-1106 bjthomas@bjthomaspe.comcastbiz.net	CODE COMPLIANCE	APPROVAL/SIGN OFF OF CONST DRAWINGS
	PARCEL #: 303134 CURRENT ZONING: TBD JURISDICTION: TBD GOV CODE: 2015 IBC, STANDARDS & AMENDMENTS, WAC 51-50 BUILDING TYPE: - SITE TYPE: UNSTAFFED TELECOMM FACILITY <b>UTILITY PURVEYOR</b> POWER COMPANY: TBD TELCO COMPANY: TBD  <b>LEGAL DESCRIPTION</b> ABBREVIATED PER ASSESSOR RECORDS.  TBD	ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING ON THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES: 2015 IBC, STANDARDS & AMENDMENTS, WAC 51-50 2015 IMC, STANDARDS & AMENDMENTS, WAC 51-52 2015 IFC, STANDARDS & AMENDMENTS, WAC 51-54 2015 NFPA 54 - NATIONAL FUEL GAS CODE (PROPANE INSTALLATIONS ONLY) 2014 NFPA 58 - LIQUEFIED PETROLEUM GAS CODE (PROPANE INSTALLATIONS ONLY) 2015 INTERNATIONAL FIRE CODE 2015 UPC, STANDARDS & AMENDMENTS, WAC 51-56, 51-57 2017 NATIONAL ELECTRICAL CODE 2012 NATIONAL ELECTRIC SAFETY CODE LOCAL BUILDING CODE ORDINANCES ANSI / TIA / EIA - 222 - G NFPA-101 - LIFE SAFETY CODE	REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED.  CONSULTANT GROUP SIGN OFF  LANDLORD'S REPRESENTATIVE: DATE: CONSTRUCTION MANAGER: DATE: CONSTRUCTION PROJECT MANAGER: DATE: PROJECT MANAGER: DATE: SITE ACQUISITION: DATE: ZONING: DATE: RF ENGINEER: DATE:  CALL TWO WORKING DAYS BEFORE YOU DIG  811  NATIONAL UTILITIES UNDERGROUND LOCATE ELECTRIC - RED SEWER - GREEN GAS/OIL - YELLOW SURVEY - PINK  TEL/CATV - ORANGE PROPOSED - WHITE WATER - BLUE	
			 SAFETY PRECAUTION SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS	



GENERAL NOTES:

1. DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSED ONLY, UNLESS NOTED OTHERWISE. THE GENERAL CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE INSTALLATION AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.

2. THE CONTRACTOR IS RESPONSIBLE FOR ALL DIMENSIONS AND STANDARDIZED DETAILS THAT REQUIRE MODIFICATIONS DUE TO ACTUAL FIELD CONDITIONS AND REQUIREMENTS MUST BE SUBMITTED TO AND APPROVED BY, T-MOBILE WIRELESS REPRESENTATIVE PRIOR TO START OF WORK.

3. PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSTRUCTION/CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.

4. THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, SAFETY, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.

6. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

7. ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

8. GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED IN RED INK "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S/ENGINEER'S SIGNED WET STAMP.

9. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BREAKAGE, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES.

10. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING CONSTRUCTION AND REPAIR ALL DAMAGES TO BETTER THAN NEW CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CONSULTANT OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE T-MOBILE REPRESENTATIVE SHALL BE SOLE AND FINAL JUDGE AS TO THE QUALITY OF THE REPAIRED CONSTRUCTION. ANY ADDITIONAL MODIFICATIONS WHICH MUST BE MADE SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.

12. WHERE NEW PAVING, CONCRETE SIDEWALKS OR PATHS MEET EXISTING CONSTRUCTION, THE CONTRACTOR SHALL MATCH THE EXISTING PITCH, GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.

13. THE CONTRACTOR SHALL MODIFY THE EXISTING FLOORS, WALL, CEILING, OR OTHER CONSTRUCTION AS REQUIRED TO GAIN ACCESS TO AREAS FOR ALL MECHANICAL, PLUMBING, ELECTRICAL, OR STRUCTURAL MODIFICATIONS. WHERE THE EXISTING CONSTRUCTION DOORS, PARTITIONS, CEILING, ETC., ARE TO BE REMOVED, MODIFIED, OR REARRANGED OR WHERE THE EXPOSED OR HIDDEN MECHANICAL, ELECTRICAL, SYSTEMS ARE ADDED OR MODIFIED, THE GENERAL CONTRACTOR SHALL REPAIR, PATCH AND MATCH ALL EXISTING CONSTRUCTION AND FINISHES OF ALL FLOORS WALLS AND CEILINGS. WHERE CONCRETE MASONRY CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL TOOTH IN ALL NEW CONSTRUCTION TO MATCH THE EXISTING BOND. WHERE CONCRETE CONSTRUCTION IS MODIFIED, THE CONTRACTOR SHALL VERIFY THE EXACT DETAILS TO BE USED FOR CONSTRUCTION. ALL WORK SHALL BE COVERED UNDER THE GENERAL CONTRACT.

14. IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE CONSULTANT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.

15. CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.

16. THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

17. SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHAL APPROVED MATERIALS AS APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND UTILIZING ORIGINAL ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ANY EXISTING ROOFING WARRANTY.

20. ROUTING OF ALL CONDUITS, CABLES, CABLE TRAYS ETC ARE INDICATED AS PROPOSED LOCATION ONLY. CONFIRM THE EXACT LOCATION AND ROUTING WITH THE ON SITE T-MOBILE CONSTRUCTION MANAGER PRIOR TO STARTING WORK.

CONCRETE NOTES:

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.

2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS UNO.

3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNO.

4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH - 3 IN. CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER .....2 IN. #5 AND SMALLER & WWF .....1 1/2 IN.

5. A 1/2" TROWELED RADIUS SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNO. HOLES TO RECEIVE EXPANSION/WEDGE ANCHORS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, DOWEL OR ROD AND SHALL CONFORM TO MFR RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. AVOID CUTTING EXISTING REBAR WHEN DRILLING HOLES IN THE ELEVATED SLAB.

6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.

7. FLOAT SURFACE SHALL BE A SMOOTH FINISH. SURFACE SHALL BE FREE OF ALL OBVIOUS DEPRESSIONS. SURFACE SHALL BE SLOPED AT 2% TO PROMOTE DRAINAGE AWAY FROM EQUIPMENT.

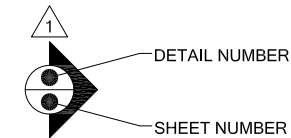
ABBREVIATIONS

AC	AIR CONDITIONER	JT	JOINT
AFF	ABOVE FINISHED FLOOR	LAM	LAMINATED
AFG	ABOVE FINISHED GRADE	LF	LINEAL FOOT
AFS	ABOVE FINISHED SLAB	MANUF	MANUFACTURER
ALUM	ALUMINUM	MAX	MAXIMUM
	ANCHOR BOLT	MECH	MECHANICAL
	ANGLE	MH	MANHOLE
ARCH	ARCHITECTURAL	MM	MILLIMETER
BTS	BASE TRANSMISSION SYSTEM	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BM	BEAM	MPH	MILES PER HOUR
BOT	BOTTOM	MTL	METAL
B.O.	BOTTOM OF	NIC	NOT IN CONTRACT
BOC	BOTTOM OF CONCRETE	NOM	NOMINAL
BOS	BOTTOM OF STEEL	NTS	NOT TO SCALE
	CONTROL JOINT	OC	ON CENTER
	CENTER LINE	OD	OUTSIDE DIAMETER
CLG	CEILING	OH	OVERHEAD
CLR	CLEAR	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP	OPPOSITE
COL	COLUMN	(P)	PROPOSED
CONC	CONCRETE	PCS	PERSONAL COMMUNICATION SYSTEM
CONST	CONSTRUCTION	P	PLATE
CONT	CONTINUOUS	PR	PAIR
CTR	CENTER	PSI	POUNDS PER SQUARE INCH
DIA / □	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DTL	DETAIL	PT	PRESSURE TREATED
	EXISTING	RAD	RADIUS
EA	EACH	RD	ROOF DRAIN
	EXPANSION JOINT	REINF	REINFORCED/REINFORCING
ELEC	ELECTRIC/ELECTRICAL	REQ'D	REQUIRED
	ELEVATION	RM	ROOM
EQ	EQUAL	R/W	RIGHT OF WAY
EW	EACH WAY	SCHED	SCHEDULE
EXP	EXPANSION	SECT	SECTION
EXT	EXTERIOR	SF	SQUARE FOOT
	FLOOR DRAIN	SIM	SIMILAR
FIN	FINISH	SQ FT	SQUARE FOOT
FIN FLR	FINISH FLOOR	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FTG	FOOTING	STL	STEEL
GA	GAUGE	STRUC	STRUCTURAL
GALV	GALVANIZED	TEMP	TEMPORARY
GYP	GYPNUM	THK	THICK
GB	GYPNUM BOARD	T.O.	TOP OF
HM	HOLLOW METAL	TOS	TOP OF STEEL
HOR	HORIZONTAL	TOC	TOP OF CONCRETE
HR	HOUR	TYP	TYPICAL
	HEIGHT	UNO	UNLESS NOTED OTHERWISE
HVAC	HEATING VENTILATION AIR CONDITIONING	VCT	VINYL COMPOSITION TILE
INSUL	INSULATION	VERT	VERTICAL
INT	INTERIOR	W/	WITH
		WWM	WELDED WIRE MESH

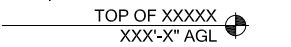
LEGENDS & SYMBOLS

CHAIN LINK FENCE	— x ——— x ——— x ——— x ———
CEDAR FENCE	— □ ——— □ ——— □ ———
POWER	— P — P — P — P — P — P — P — P —
TELCO	— T — T — T — T — T — T — T — T —
POWER/TELCO	— P — T — P — T — P — T — P — T —
COAX	— COAX — COAX — COAX — COAX — COAX —
OVERHEAD POWER	— OH ——— OH ——— OH ——— OH ———
CENTERLINE	— ——— ——— ——— ——— ———

REVISION BUG

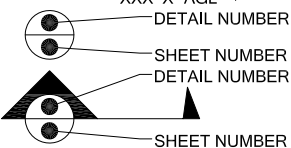


ELEVATION VIEW BUG



ELEVATION VIEW BUG

DETAIL BUG



SECTION BUG

SITE WORK NOTES:

1. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

2. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE PCS EQUIPMENT, TOWER AREAS, AND ADJACENT BUILDINGS.

3. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

4. THE SUBGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION.

5. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING.

7. THE AREAS OF THE CUSTOMER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK.

8. BEDDING MATERIAL FOR UTILITY LINES, CULVERTS AND PIPING: CLEAN SAND, MEDIUM TP COARSE, SUB ROUNDED NATURAL RIVER OR BANK SAND, WASHED, FREE OF SILT OR CLAY, LOAM, FRIABLE OR SOLUBLE MATERIALS, AND ORGANIC MATER; GRADED IN ACCORDANCE WITH THE FOLLOWING GRAIN SIZE DISTRIBUTION:

SIEVE SIZE	PERCENT PASSING
3/8"	100
NO. 4 MESH	60-90
NO. 8 MESH	0-45
NO. 16 MESH	0-25
NO. 100 MESH	0-2
NO. 200 MESH	0-2

9. BMP'S FOR TEMPORARY EROSION/SEDIMENTATION CONTROL SHALL BE IMPLEMENTED PER LOCAL, CITY OR COUNTY GUIDELINES AND PER PLAN IF APPLICABLE.

SPECIAL INSPECTIONS:

SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC 2015 SECTION 1704.

- SOILS/GEOTECHNICAL:
- ☐ SHORING INSTALLATION AND MONITORING
  - ☐ OBSERVE AND MONITOR EXCAVATION
  - ☐ VERIFY SOIL BEARING \_\_\_\_\_ psf BEARING
  - ☐ SUBSURFACE DRAINAGE PLACEMENT
  - ☐ VERIFY FILL MATERIAL AND COMPACTION
  - ☐ VERIFY CONDITIONS AS ANTICIPATED
  - ☐ PILE PLACEMENT (AUGER CAST/DRIVEN PILE)
  - ☐ OTHER

- REINFORCED CONCRETE:
- ☐ REINFORCING STEEL AND CONCRETE PLACEMENT
  - ☐ PRESTRESSED/PRECAST CONCRETE FABRICATION AND ERECTION
  - ☐ BATCH PLANT INSPECTION
  - ☐ SHOTCRETE
  - ☐ GROUTING
  - ☐ OTHER

- STRUCTURAL STEEL:
- ☐ FABRICATION AND SHOP WELDS
  - ☐ ERECTION AND FIELD WELDS AND BOLTING
  - ☐ OTHER: \_\_\_\_\_

- STRUCTURAL ALUMINUM:
- ☐ FABRICATION AND SHOP WELDS
  - ☐ ERECTION AND FIELD WELDS AND BOLTING
  - ☐ OTHER: \_\_\_\_\_

- STRUCTURAL MASONRY:
- ☐ CONTINUOUS
  - ☐ PERIODIC
  - ☐ OTHER: \_\_\_\_\_

- MISCELLANEOUS:
- ☐ OTHER: \_\_\_\_\_

- ANCHORING TO CONCRETE:
- ☐ BOLTS INSTALLED IN CONCRETE
  - ☐ POST-INSTALLATION ADHESIVE ANCHORS
  - ☐ POST-INSTALLATION MECHANICAL ANCHORS



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**US-WA-5105**  
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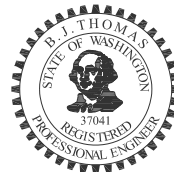
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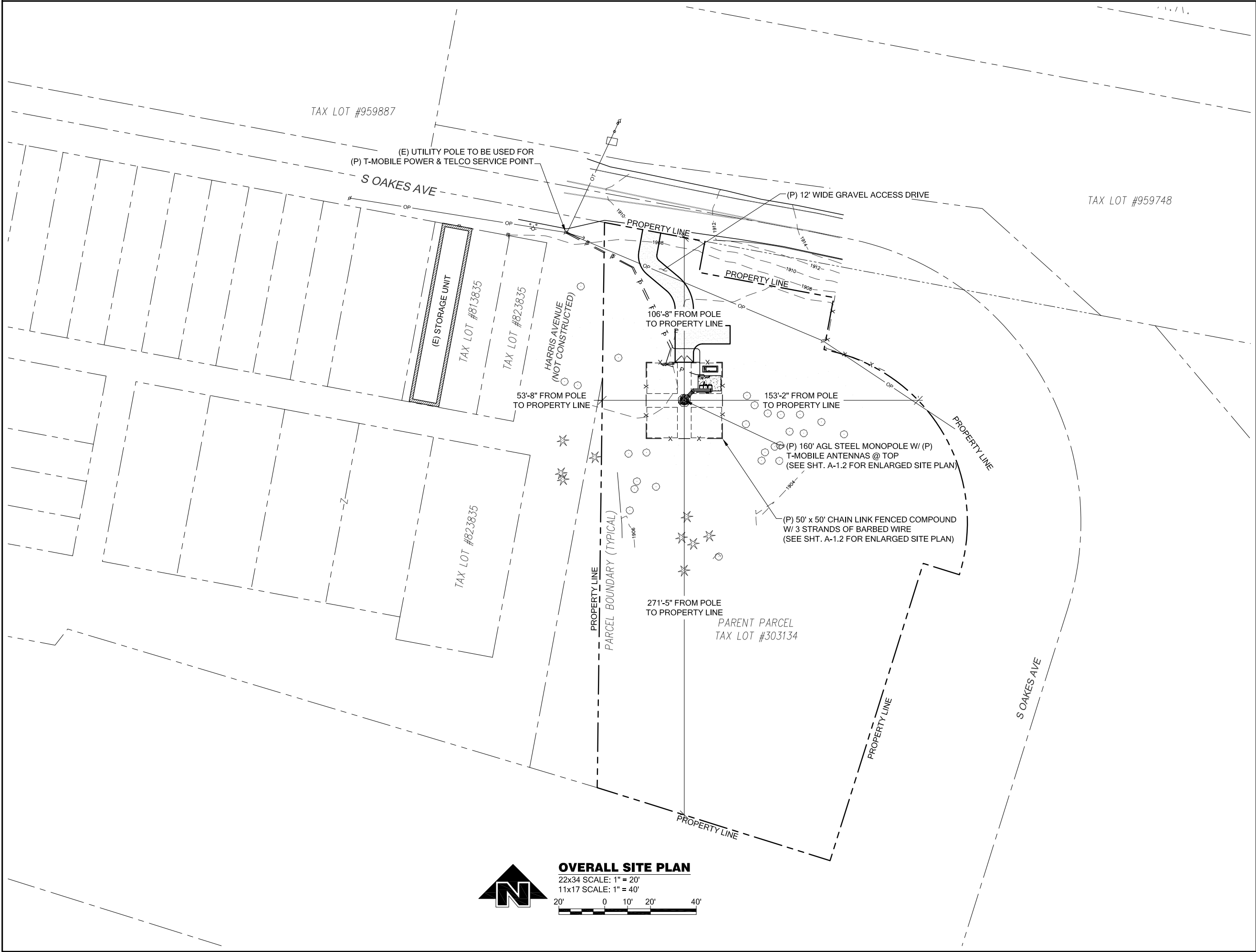
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DRAWING TITLE:

GENERAL NOTES

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CLE ELUM, WA 98922

**ISSUED FOR:**

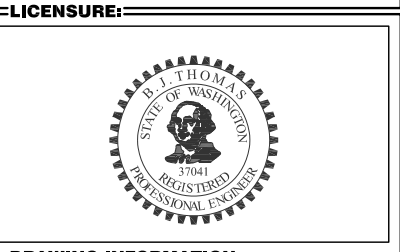
**BUILDING PERMIT**

REVISION HISTORY:			
NO.	DATE:	DESCRIPTION:	CHK. BY:
4	7/15/2020	MINOR REV	BJT
3	3/18/2020	REVISED PER REDLINES	BJT
2	2/25/2020	UPDATED SURVEY ADDED	BJT
1	2/12/2020	ISSUED DESIGN REVIEW	BJT

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

<b>DRAWN BY:</b>	<b>CHK. BY:</b>
JL	BJ



**DRAWING INFORMATION:**

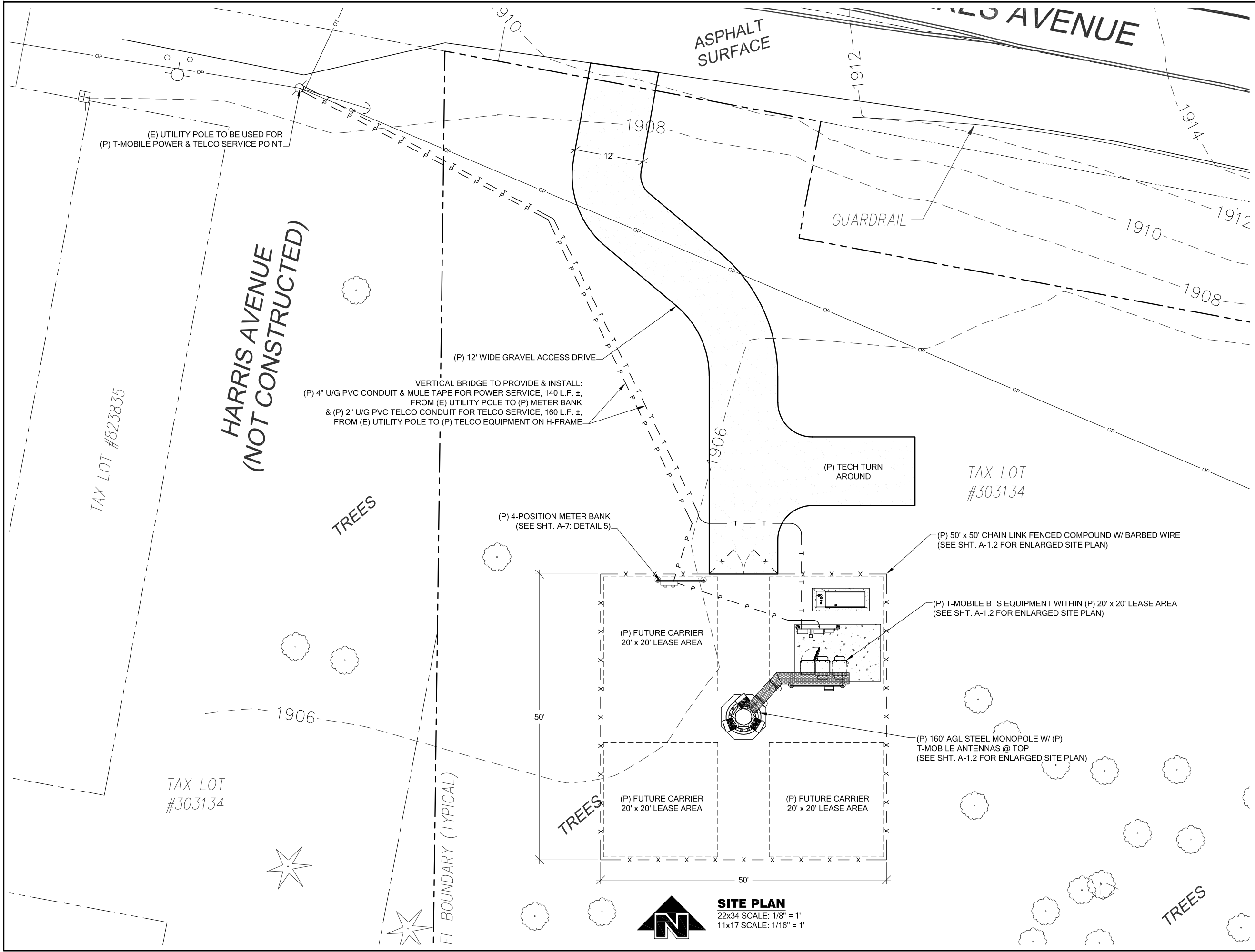
DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS AND OMISSIONS. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

**DRAWING TITLE:**

**OVERALL  
SITE PLAN**

**DRAWING NUMBER:**

**A-1**



PROJECT INFORMATION:

**CLE ELUM DT**  
**US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

ISSUED FOR:

**BUILDING PERMIT**

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PLANS PREPARED BY:

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY: CHK. BY:

JL

BJ

LICENSURE:



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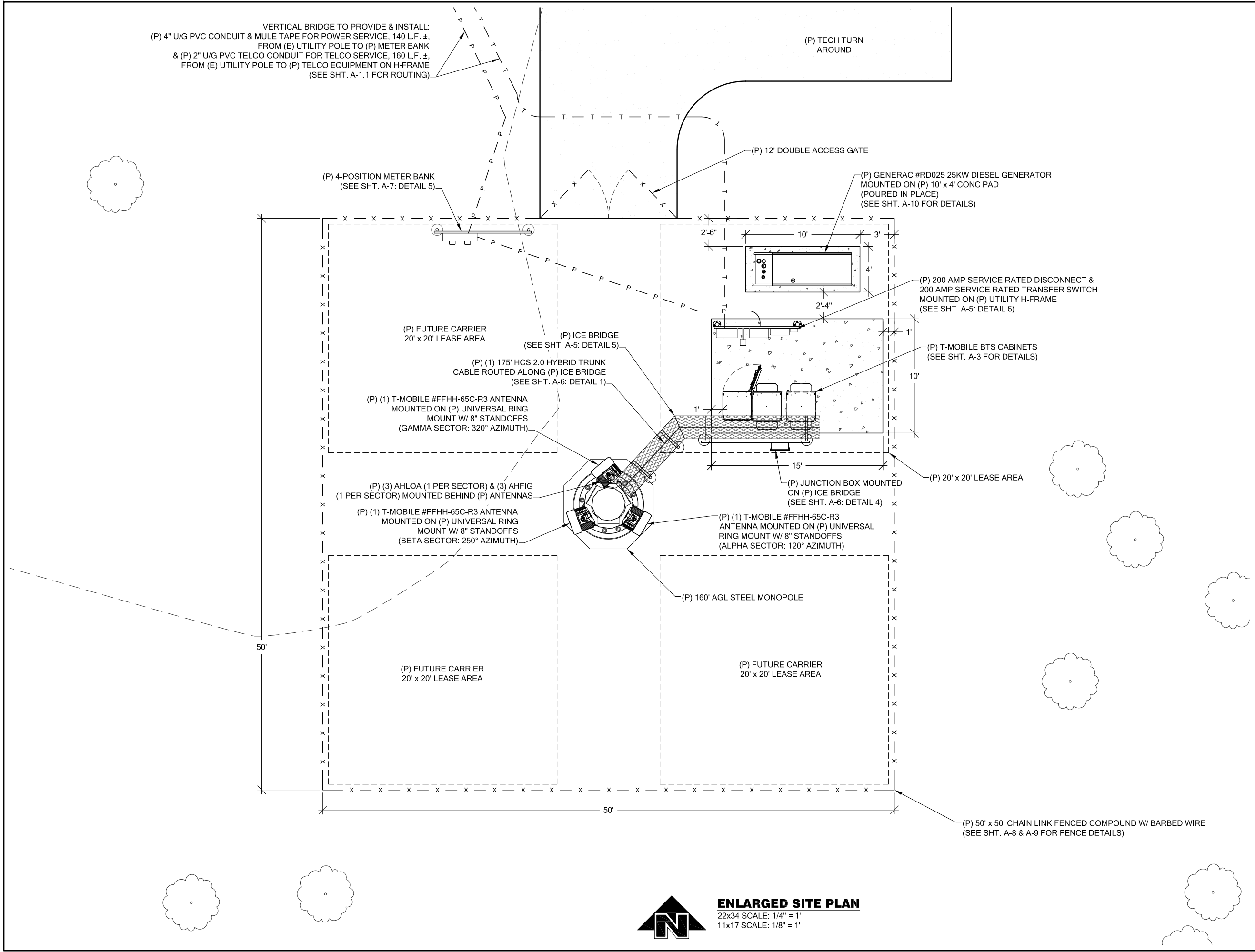
DRAWING TITLE:

**SITE PLAN**

DRAWING NUMBER:

**A-1.1**





**PROJECT INFORMATION:**

**CLE ELUM DT  
US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

**ISSUED FOR:**

**BUILDING PERMIT**

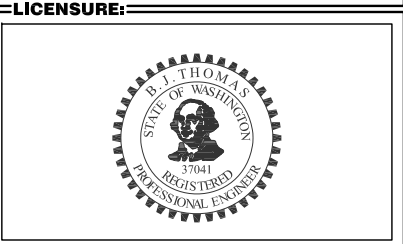
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**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY:** JL **CHK. BY:** BJ



**DRAWING INFORMATION:**

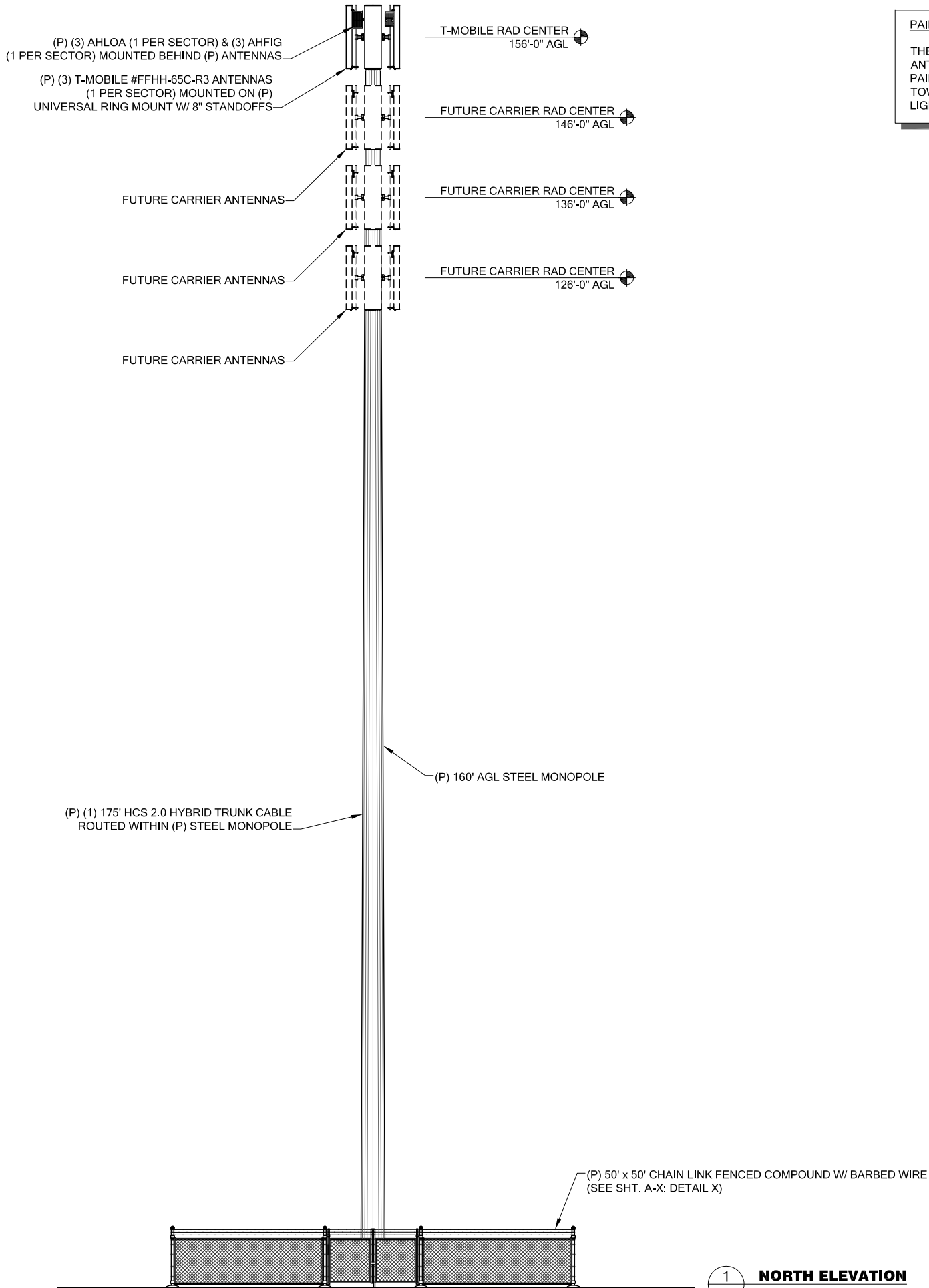
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**DRAWING TITLE:**

**ENLARGED  
SITE PLAN**

**DRAWING NUMBER:**

**A-1.2**



**PAINT NOTE:**

THE TOWER AND ALL PROPOSED AND FUTURE ANTENNAS AND ATTACHMENTS SHALL BE FACTORY PAINTED A COLOR THAT IS SELECTED BY THE TOWER OWNER AND IS SIMILAR TO, AND NO LIGHTER THAN, SHERWIN WILLIAMS JASPER #6216.



**PROJECT INFORMATION:**

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US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

**ISSUED FOR:**

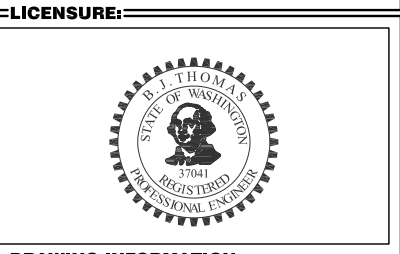
**BUILDING PERMIT**

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**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY:	CHK. BY:
JL	BJ



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**DRAWING TITLE:**

**SITE  
ELEVATION**

**DRAWING NUMBER:**

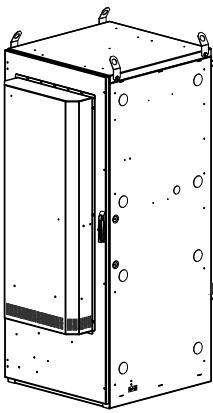
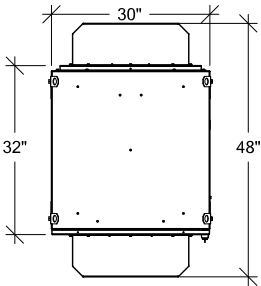
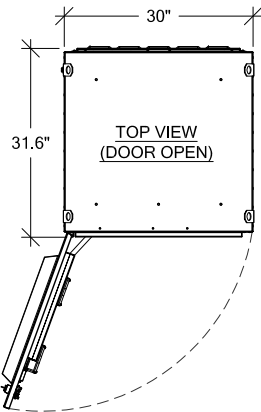
**A-2**



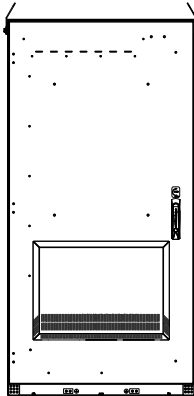
PURCELL "HPL3" BATTERY CABINET
MANUFACTURER: PURCELL
HEIGHT: 60.4" DEPTH: 31.6" WIDTH: 30"
MAX WEIGHT: 2206 lbs
OPTIONAL: AIR CONDITIONER, AC POWER COMPARTMENT, AND REAR PANEL.

BATTERY INFORMATION:

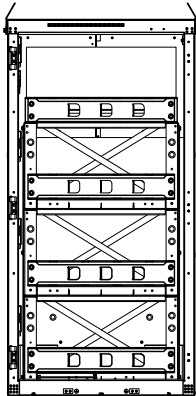
MAXIMUM OF (4) STRINGS OF (4) POWERSAFE #SBS 170F IN BATTERY CABINET  
TOTAL ELECTROLYTE = (16) BATTERIES x 2.09 GAL PER BATTERY = 33.44 GAL



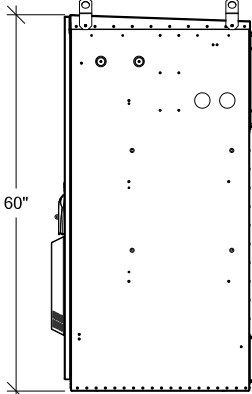
PURCELL "HPL3" EXPANSION CABINET SPECS:
MANUFACTURER: PURCELL
HEIGHT: 72" DEPTH: 48" WIDTH: 30"
CABINET WEIGHT: 400LBS



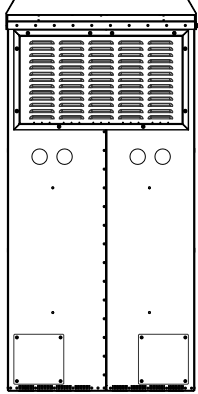
FRONT  
(DAC DOOR)



FRONT  
(DOOR REMOVED)

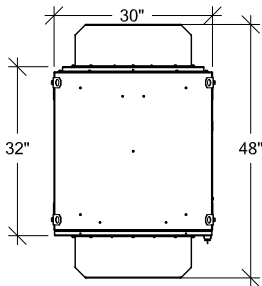


RIGHT VIEW  
(DAC DOOR)

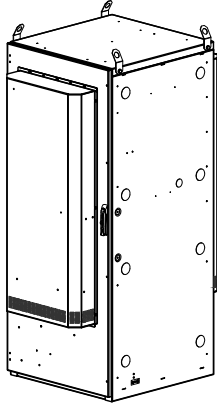


REAR VIEW

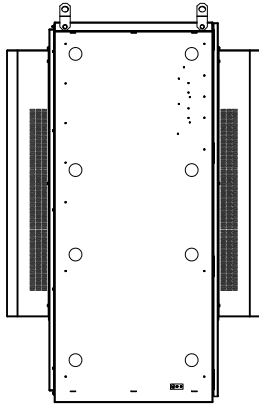
1 PURCELL "HPL3" BATTERY CABINET DETAILS  
A-3 SCALE: NTS



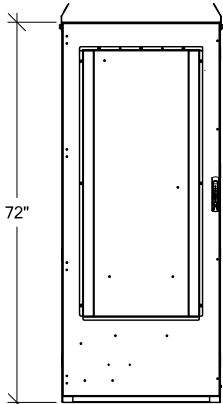
TOP VIEW



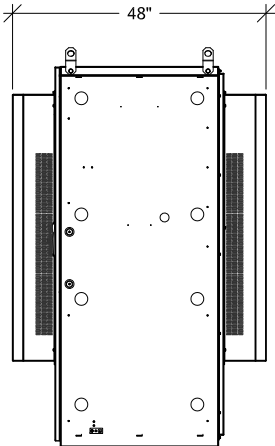
PURCELL "HPL3" 600A LARGE SITE SUPPORT CABINET SPECS:
MANUFACTURER: PURCELL
HEIGHT: 72" DEPTH: 48" WIDTH: 30"
CABINET WEIGHT: 430LBS



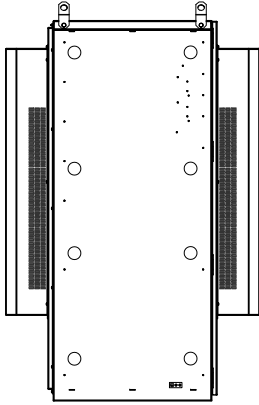
LEFT VIEW



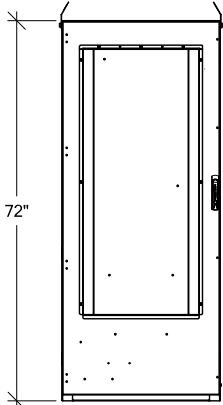
FRONT VIEW



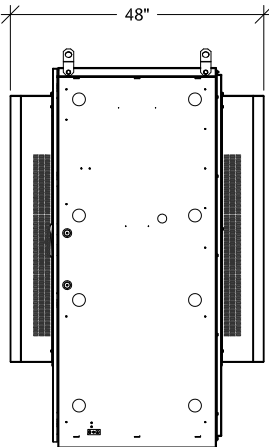
RIGHT VIEW



LEFT VIEW



FRONT VIEW



RIGHT VIEW

2 PURCELL "HPL3" EXPANSION CABINET DETAILS  
A-3 SCALE: NTS

3 PURCELL "HPL3" 600A LARGE SITE SUPPORT CABINET DETAILS  
A-3 SCALE: NTS



PROJECT INFORMATION:

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US-WA-5105  
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CLE ELUM, WA 98922

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BUILDING PERMIT

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PLANS PREPARED BY:

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7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY: CHK. BY:

JL

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LICENSURE:



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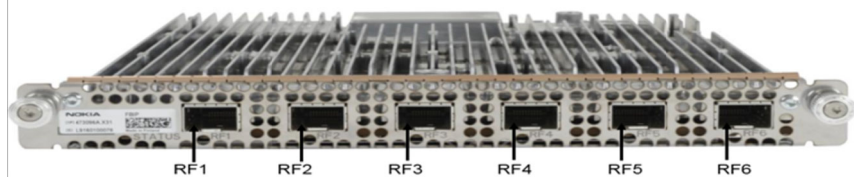
DRAWING TITLE:

BTS EQUIPMENT  
DETAILS

DRAWING NUMBER:

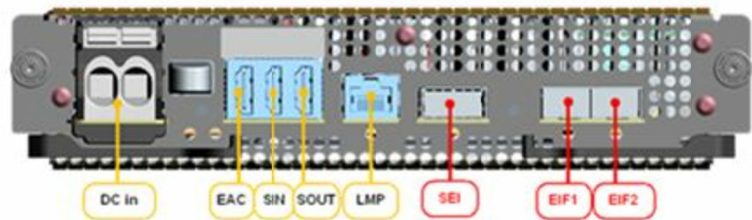
A-3

MANUFACTURER: NOKIA  
MODEL: ABIA AIR SCALE  
DIMENSION (HxWxD) 1.9" x 8.3" x 14.8"  
WEIGHT: 4.63 LBS



1  
A-4  
**ABIA DETAIL**  
SCALE: NTS

**ASIK – Baseband Card**



3  
A-4  
**ASIK DETAIL**  
SCALE: NTS

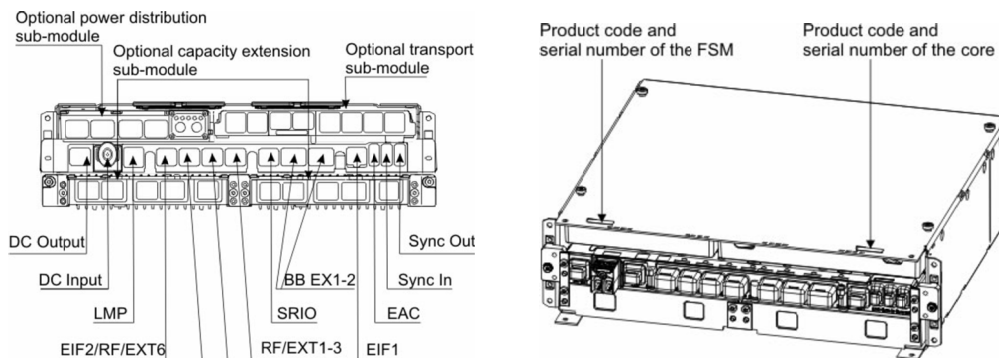
**ABIL – Capacity Card**



4  
A-4  
**ABIL DETAIL**  
SCALE: NTS

MANUFACTURER: NOKIA  
MODEL: ASIK AIR SCALE  
DIMENSION (HxWxD) 1.9" x 8.3" x 14.8"  
WEIGHT: 6.83 LBS

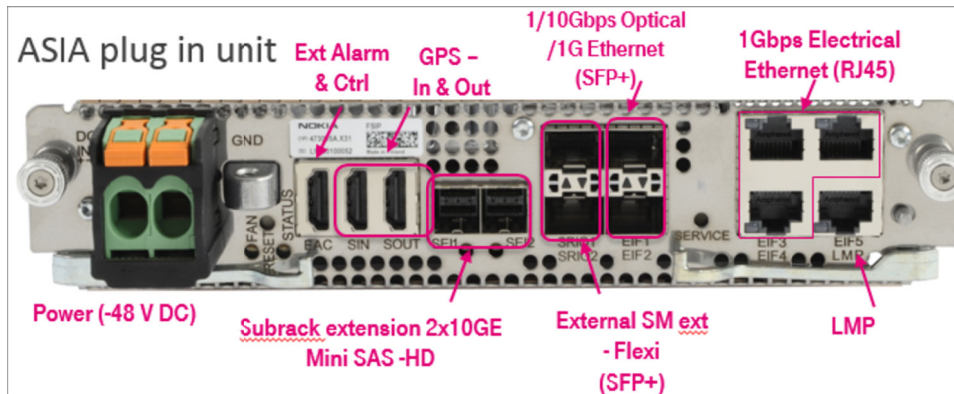
MANUFACTURER: NOKIA  
MODEL: ABIL AIR SCALE  
DIMENSION (HxWxD) 1.9" x 8.3" x 14.8"  
WEIGHT: 4.63 LBS



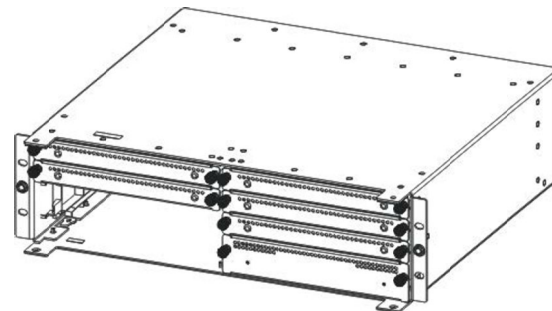
5  
A-4  
**FSMF DETAIL**  
SCALE: NTS

FSMF MODULE	
PROPERTY	VALUE
HEIGHT	133mm/3U (5.2 in)
WIDTH	447 mm (17.6 in)
DEPTH	422 mm (16.5 in)
WEIGHT W/ CORE MODULE	MAX. 11.5 kg (25.3 lb)

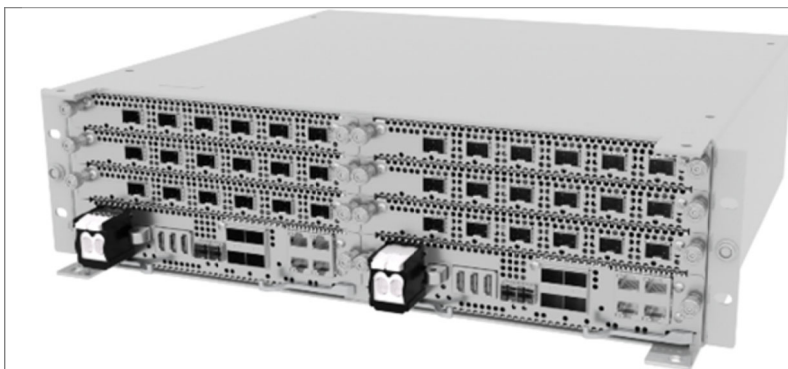
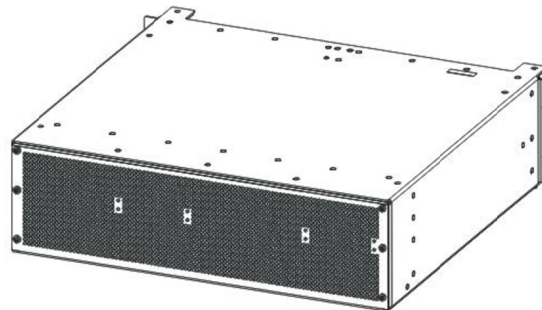
MANUFACTURER: NOKIA  
MODEL: ASIA AIR SCALE  
DIMENSION (HxWxD) 1.9" x 8.3" x 14.8"  
WEIGHT: 6.83 LBS



2  
A-4  
**ASIA DETAIL**  
SCALE: NTS



MANUFACTURER: NOKIA  
MODEL: AMIA AIRSCALE SUBRACK  
DIMENSION (HxWxD) 5.0" x 17.6" x 15.7"  
WEIGHT: EMPTY: 10.9 LBS  
WITH BLINDS: 14.8 LBS  
WITH ALL UNITS: 52 LBS



6  
A-4  
**AMIA DETAIL**  
SCALE: NTS



**PROJECT INFORMATION:**

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US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

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**BUILDING PERMIT**

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**PLANS PREPARED BY:**

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7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY: CHK. BY:**

JL

BJ

**LICENSURE:**



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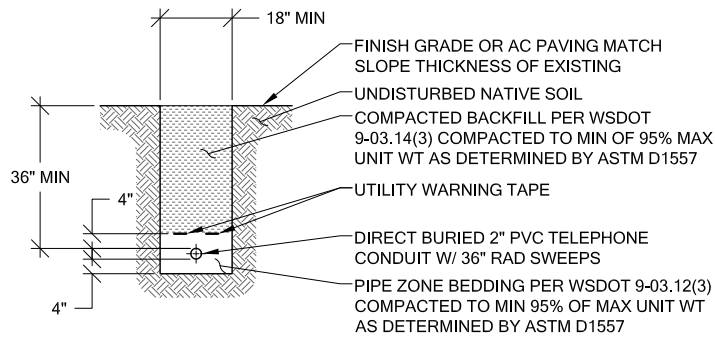
**DRAWING TITLE:**

**GENERAL DETAILS**

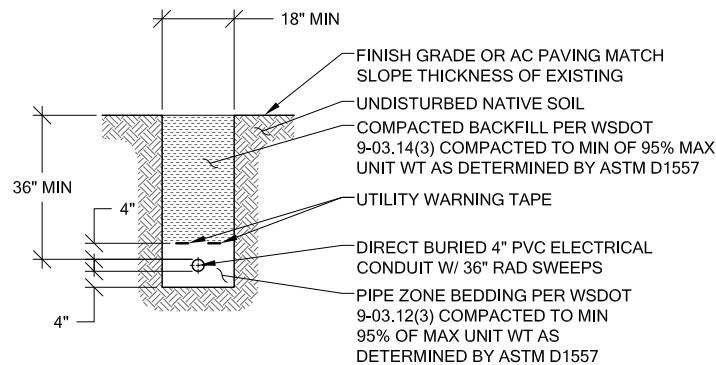
**DRAWING NUMBER:**

**A-4**





1 TELCO SERVICE TRENCH  
SCALE: NTS

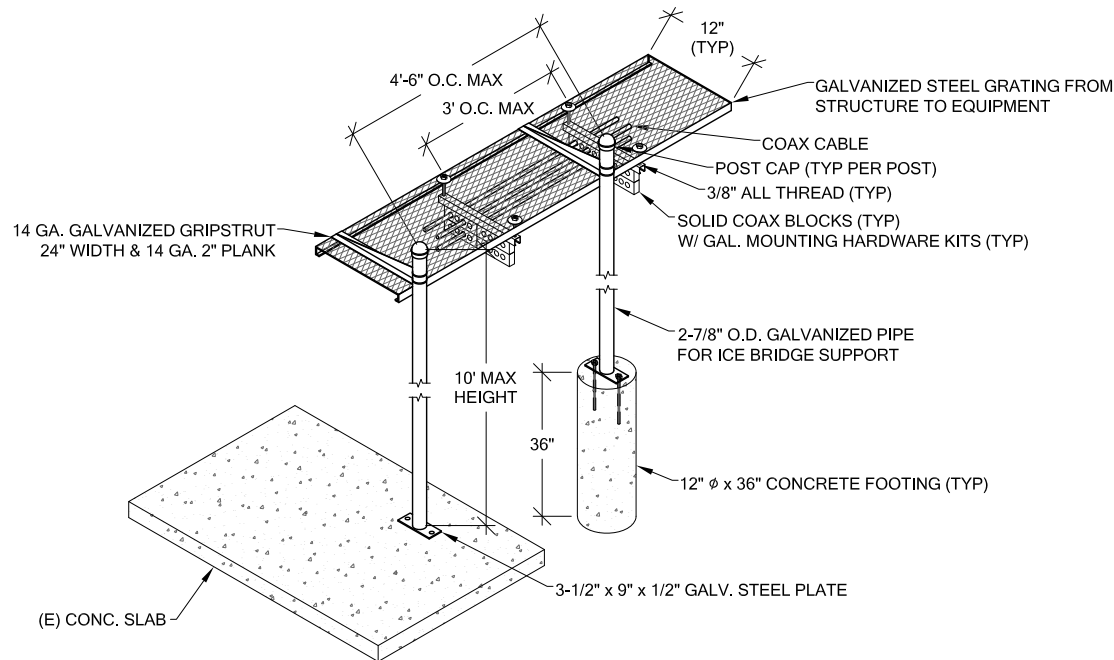


2 POWER SERVICE TRENCH  
SCALE: NTS

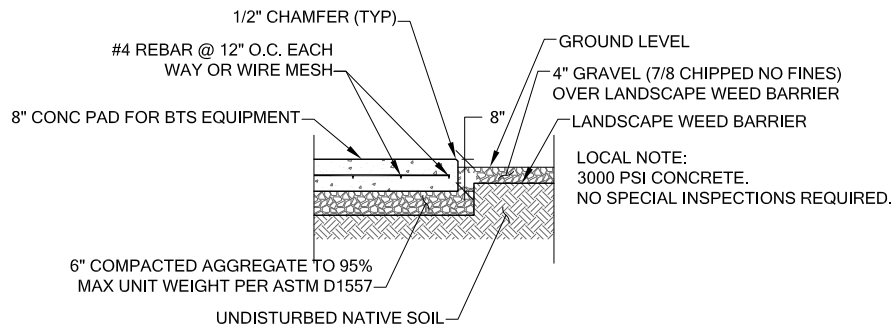
NOTE:

ANCHOR DETAIL- 1/2" DIAMETER ANCHOR BOLTS IF CAST IN PLACE WITH 6" DEPTH OR 5/8" DIAMETER HILTI KWIK HUS-EZ BOLTS IF POST-INSTALLED WITH 6" DEPTH.

PLATE DETAIL- CARRIER CAN ALTERNATELY INSTALL A PRE-MANUFACTURED KIT FROM SITE PRO, SUCH AS THEIR PRODUCT "IB24D" OR IB24B".



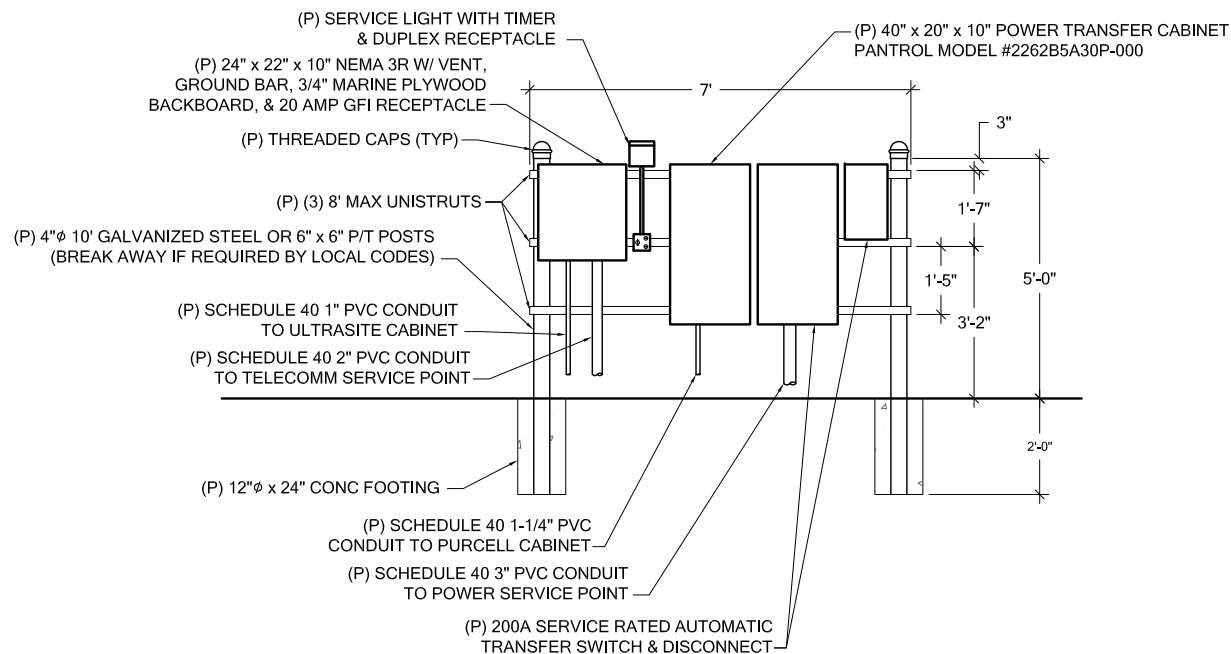
6 ICE BRIDGE DETAIL  
SCALE: NTS



3 CONC. EQUIPMENT SLAB DETAIL  
SCALE: NTS



4 SITE SIGNAGE DETAIL  
SCALE: NTS



7 EQUIPMENT H-FRAME DETAIL  
SCALE: NTS



PROJECT INFORMATION:

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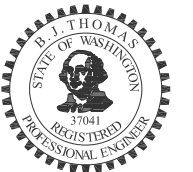
**B. J. THOMAS, P.E.**  
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DRAWING TITLE:

**GENERAL DETAILS**

DRAWING NUMBER:

**A-5**

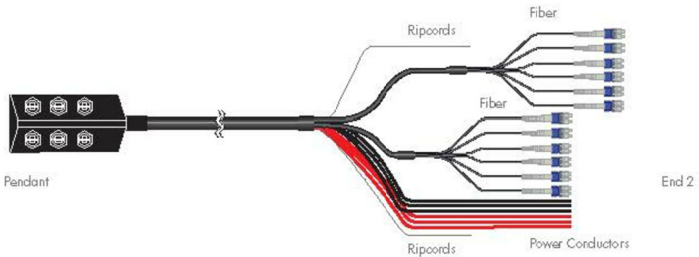
HELIAX® FiberFeed® Hybrid Trunk Cables

FiberFeed® trunk cable assemblies are factory constructed specifically for the devices listed in this guide ensuring perfect compatibility and trouble free installation. Additional features that ease installation and ensure a long service life include:

- Robust breakout design tailored for specific enclosures
- Integrated rip cords for length management
- Stranded construction for easy bending and maximum fiber protection
- Factory test certificate included with every cable assembly
- Corrugated aluminum shield protects from crush and animal damage

Specifications

Cable Series	RRU's Supported	# of Power Conductors	# of Fibers	End 2 Power Breakout (inches)	End 2 Fiber Breakout (inches)
Hybrid Trunk Cable					
6 AWG power conductor wire					
24 Single mode fiber					
FD2606-24S55	6	6	24	24	31/33



1 HYBRID TRUNK CABLE DETAIL  
SCALE: NTS

Hybrid Jumpers for Nokia Radios

Ordering Information

Description	Length (feet)	Part Number
<b>Hybrid Jumpers for Nokia Radios</b> End 1: 4 fibers terminated D/C for Nokia RRU's with flesh cut power cord (red/black conductors). End 2: 4 fibers terminated LC and 4 X 10 AWG conductors terminated at hybrid trunk connector (HQ2LC)	6	HFT410-4SNOK2-6
	10	HFT410-4SNOK2-10
	15	HFT410-4SNOK2-15
	20	HFT410-4SNOK2-20
	25	HFT410-4SNOK2-25
	30	HFT410-4SNOK2-30
	40	HFT410-4SNOK2-40
	50	HFT410-4SNOK2-50
	60	HFT410-4SNOK2-60
	70	HFT410-4SNOK2-70
	80	HFT410-4SNOK2-80
	90	HFT410-4SNOK2-90
	100	HFT410-4SNOK2-100

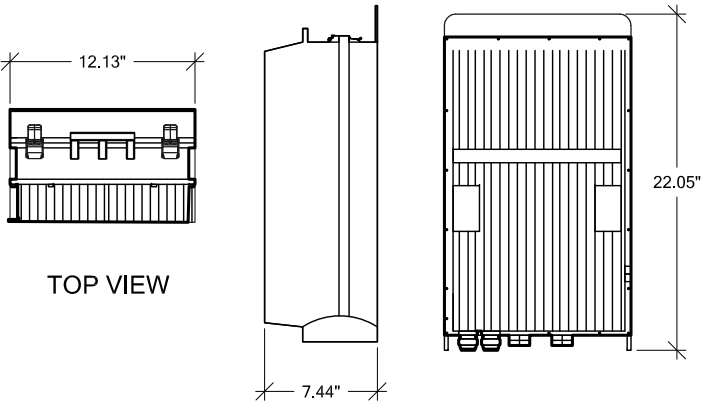
Note: Longer lengths are available; contact your CommScope sales representative for details.



2 HYBRID JUMPER CABLE DETAIL  
SCALE: NTS

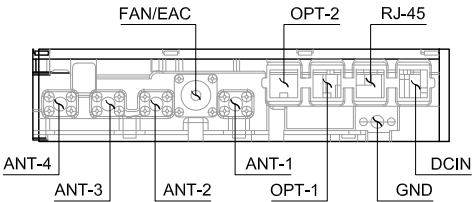
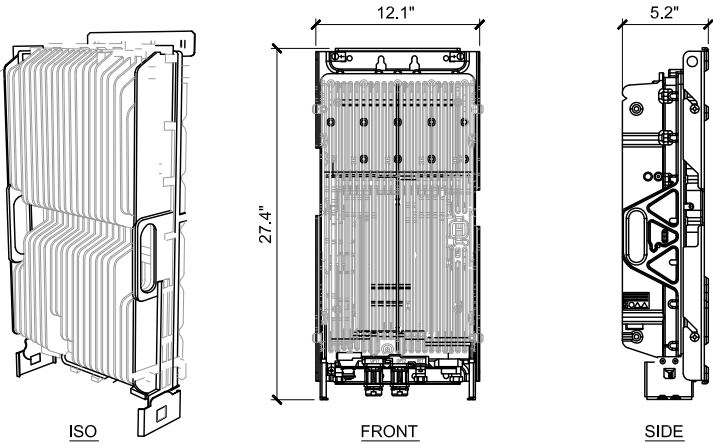
RADIO MODULE FOR 600/700MHz RRH

MANUFACTURER:	NOKIA
MODEL:	AHLOA
NET WEIGHT:	83.78 LBS
DIMENSION (LxWxD)	22.05" x 12.13" x 7.44"



3 AHLOA DETAIL  
SCALE: NTS

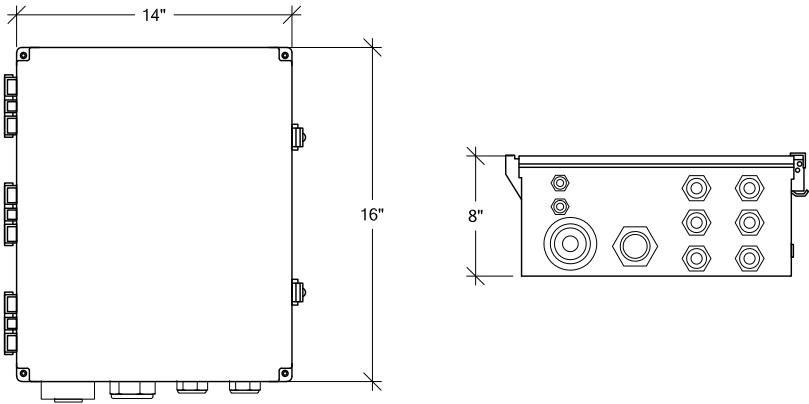
MANUFACTURER:	NOKIA
MODEL:	AHFIG
WEIGHT:	70.5 LBS
DIMENSION (LxWxD)	27.4" x 12.1" x 6.5"



5 AHFIG DETAIL  
SCALE: NTS

FIBER & POWER JUNCTION BOX W/ OVP

MANUFACTURER:	COMMScope
MODEL:	FE-16148-OVP-B12
DIMENSION (HxWxD)	16" x 14" x 8"
WEIGHT:	23.5lbs



4 OVP/JUNCTION BOX DETAIL  
SCALE: NTS



PROJECT INFORMATION:

CLE ELUM DT  
US-WA-5105  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

ISSUED FOR:

BUILDING PERMIT

REVISION HISTORY:

NO.	DATE:	DESCRIPTION:	CHK. BY:
4	7/15/2020	MINOR REV	BJT
3	3/18/2020	REVISED PER REDLINES	BJT
2	2/25/2020	UPDATED SURVEY ADDED	BJT
1	2/12/2020	ISSUED DESIGN REVIEW	BJT

PLANS PREPARED BY:

B. J. THOMAS, P.E.  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY: CHK. BY:

JL

BJ

LICENSURE:



DRAWING INFORMATION:

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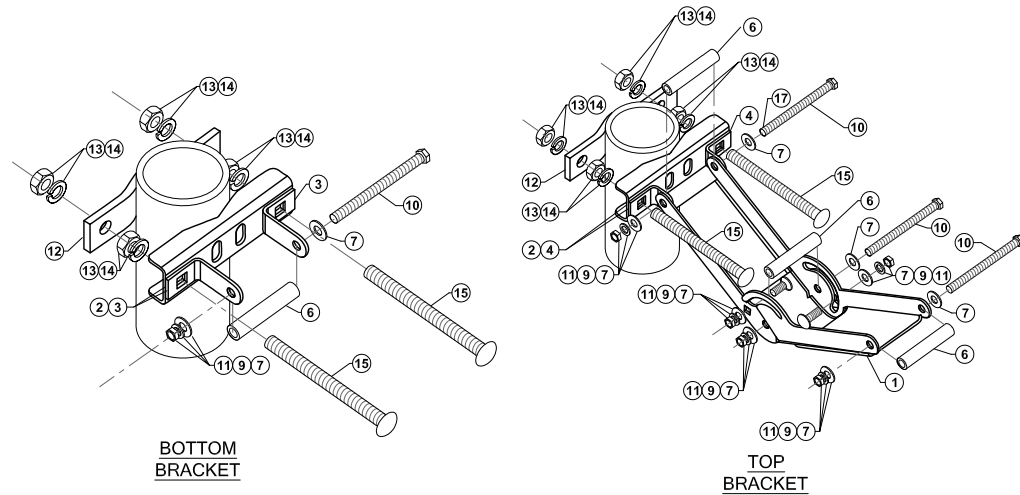
GENERAL DETAILS

DRAWING NUMBER:

A-6

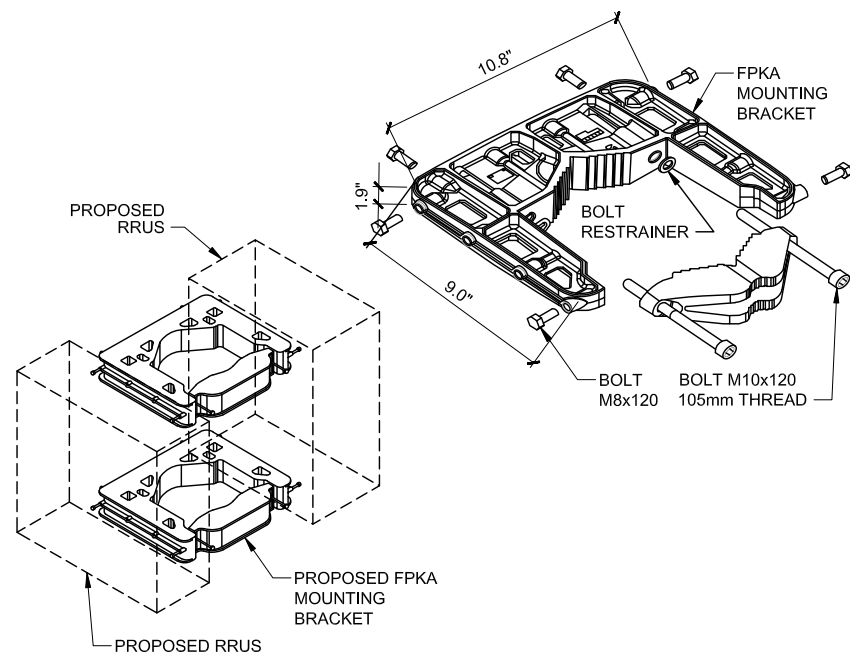


PARTS LIST				
ITEM #	QUANTITY	PART NUMBER	DESCRIPTION	
1	2	601257	ANGLE ARM	
2	2	601256	MOUNTING CLAMP	
3	2	601235-1	BRACKET	
4	2	601235-2	BRACKET	
5	1	601258	LABEL, ANGLE	
6	4	600679-3	SPACER TUBE	
7	14	100525-24	ME FLAT WASHER (STAINLESS STEEL)	
8	2	600419-8	M8x1.25x25mm LARGE CARRIAGE BOLT (STAINLESS STEEL)	
9	6	6/17395	M8 LOCK WASHER (STAINLESS STEEL)	
10	4	600419-10	M8x1.25x110mm LARGE HEX HEAD SCREW (STAINLESS STEEL)	
11	6	204001-15	M8x1.25 HEX NUT (STAINLESS STEEL)	
12	2	225244	CLAMP PLATE	
13	8	600419-24	LARGE LOCK WASHER (STAINLESS STEEL)	
14	8	204001-21	M12x1.75 HEX NUT (STAINLESS STEEL)	
15	4	600419-12	M12x1.75x150mm LARGE CARRIAGE BOLT (STAINLESS STEEL)	
17	1	601584	MOLYBDENUM DISULFIDE GREASE	

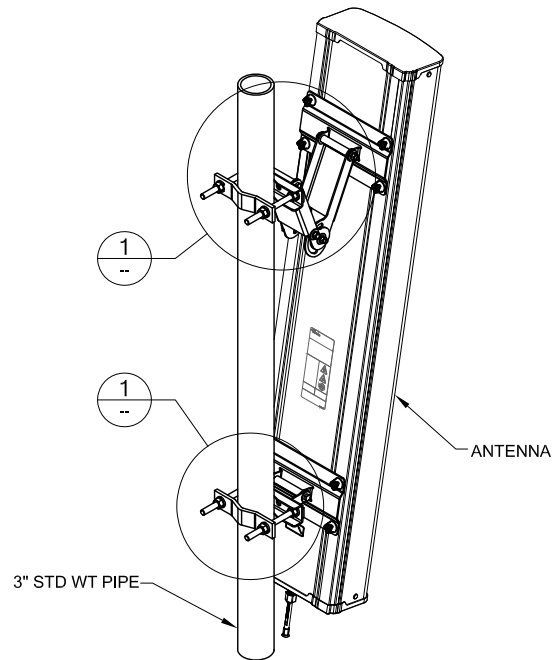


1 ANTENNA BRACKET ATTACHMENT DETAIL  
A-7 SCALE: NTS

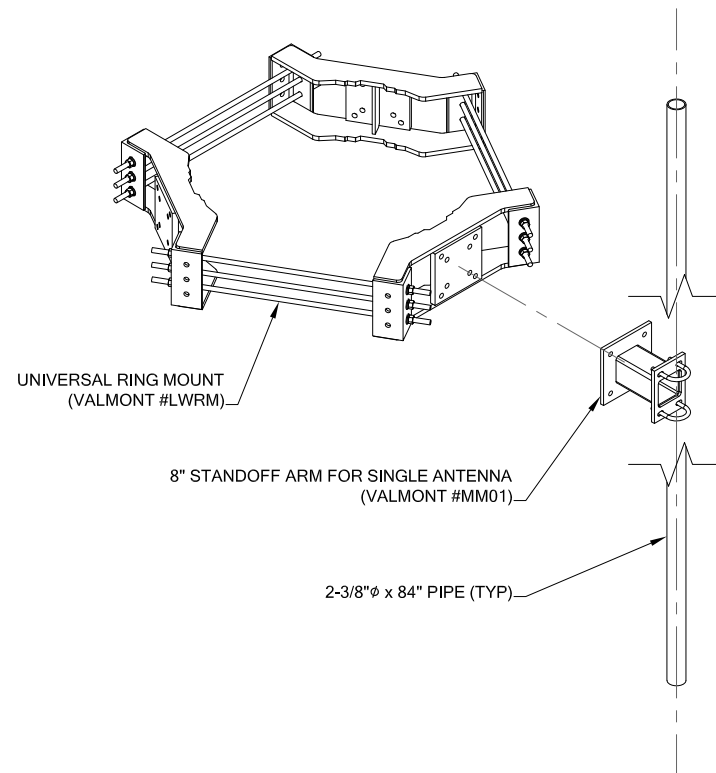
NOTE:  
-PROPOSED RRU's TO BE MOUNTED VERTICALLY ONLY  
-MOUNTING PIPE NOT SHOWN FOR CLARITY



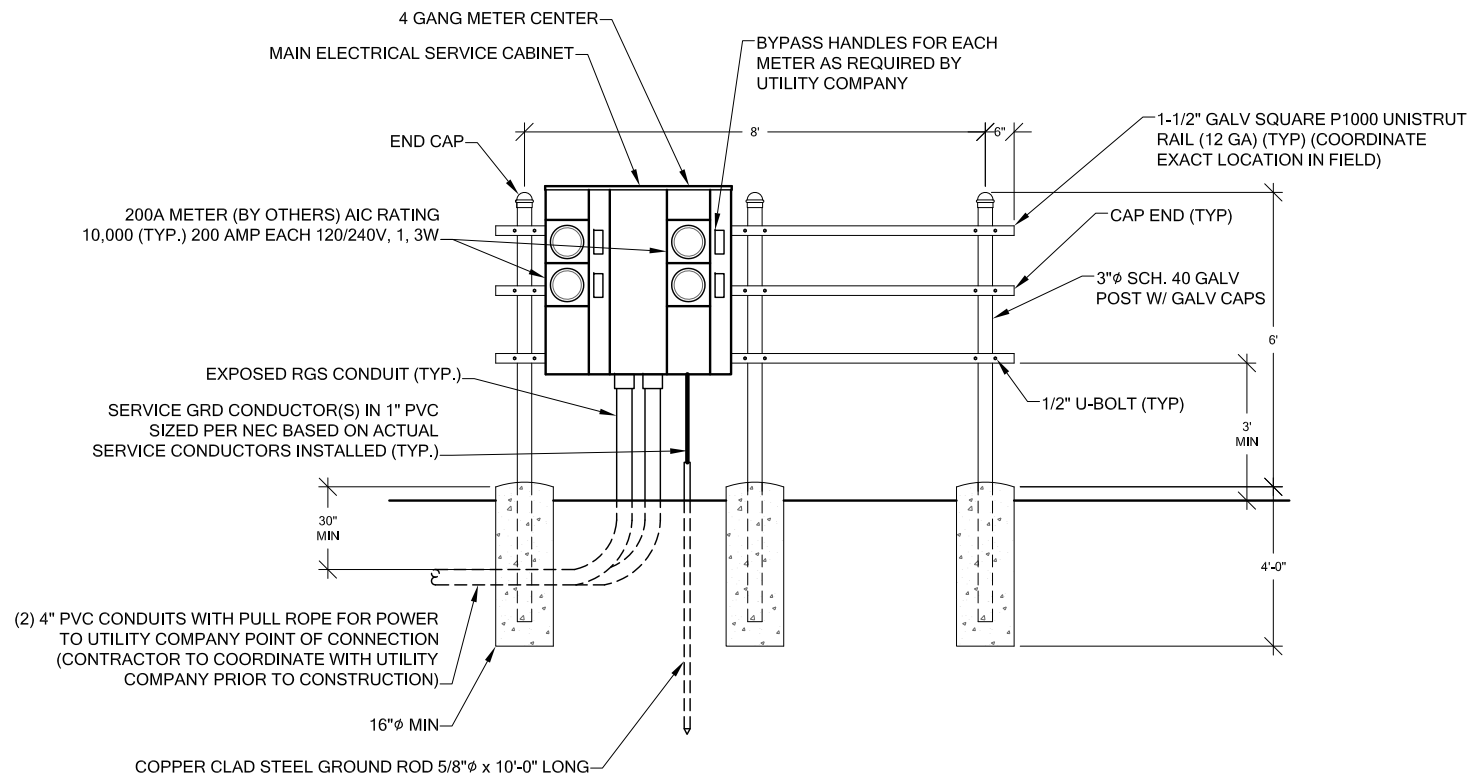
4 FPKA DETAIL  
A-7 SCALE: NTS



2 ANTENNA ATTACHMENT DETAIL  
A-7 SCALE: NTS



3 UNIVERSAL RING MOUNT & 8" STANDOFF DETAIL  
A-7 SCALE: NTS



5 METER BANK DETAIL  
A-7 SCALE: NTS



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**B. J. THOMAS, P.E.**  
**7607 80TH AVE NE**  
**MARYSVILLE, WA 98270**  
**206-851-1106**

DRAWN BY: CHK. BY:

**JL** **BJ**

LICENSURE:



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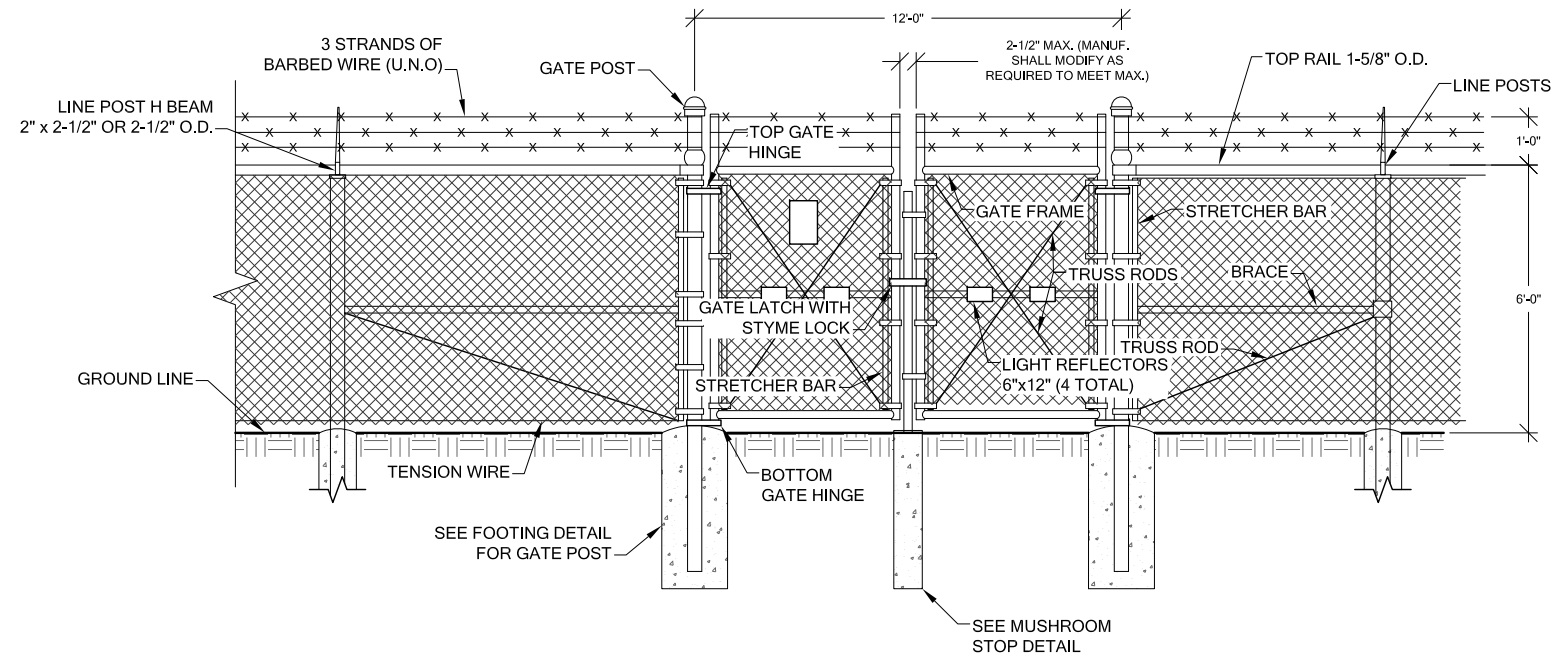
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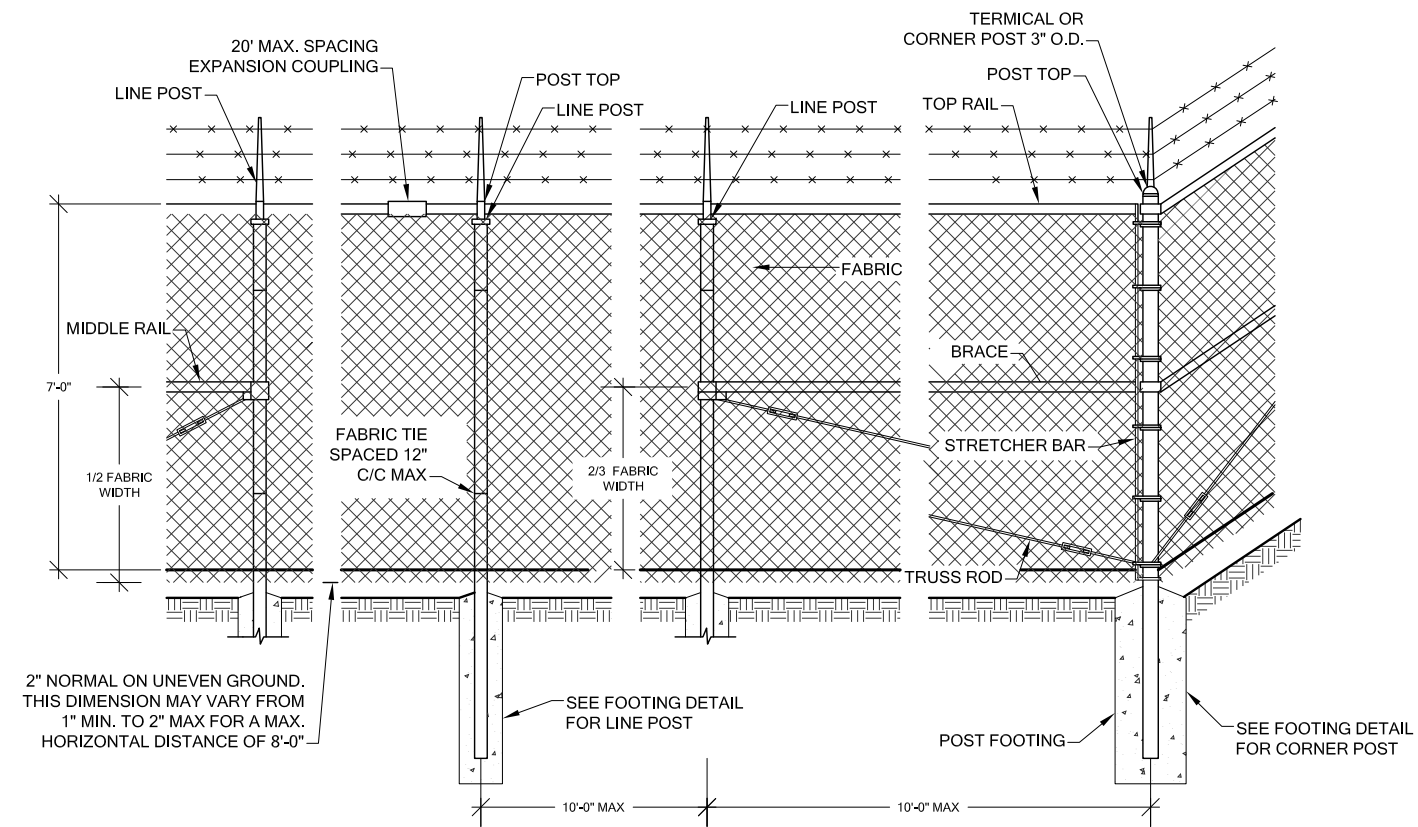
**GENERAL DETAILS**

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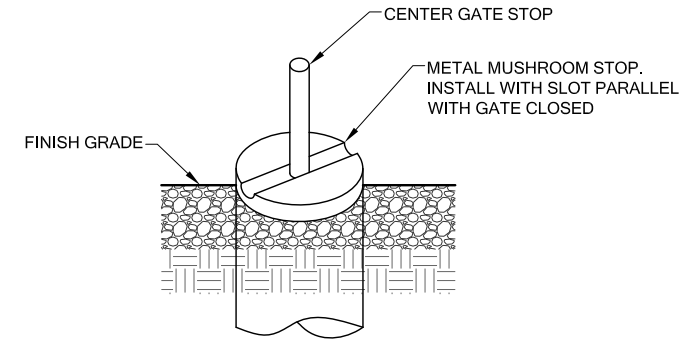
**A-7**



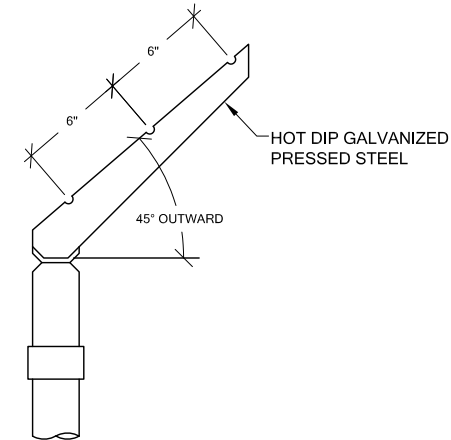
**1 CHAIN LINK DETAIL**  
SCALE: NTS



**3 POST/CORNER POST DETAIL**  
SCALE: NTS



**2 MUSHROOM STOP DETAIL**  
SCALE: NTS



**4 BARBED WIRE ARM OF LINE POST**  
SCALE: NTS



**5 INSTALLATION AT CORNERS**  
SCALE: NTS



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**DRAWING TITLE:**

**FENCE DETAIL**

**DRAWING NUMBER:**

**A-8**



NOTES:

ZINC COATING - THE WEIGHT OF THE COATING SHALL NOT BE LESS THAN 1.2 OUNCES PER SQUARE FOOT OF ACTUAL SURFACE COVERED. ALL FERROUS METALS USED AS PART OF THE FENCE INSTALLATION SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL. ALL SCREWS, BOLTS, LOCK WASHERS, NUTS, ETC. SHALL BE HOT DIP GALVANIZED OR MADE OF STAINLESS STEEL.

FABRIC - STANDARD INDUSTRIAL GRADE #9 GAUGE WITH 2 INCH MESH ZINC COATED CHAIN LINK WITH A BREAKING STRENGTH OF NOT LESS THAN 1290 POUNDS SHALL BE USED. THE FABRIC SHALL BE ZINC COATED BY THE HOT DIP PROCESS AFTER FABRICATION.

METAL POSTS - METAL POSTS (LINE, CORNER, TERMINAL, GATE POSTS, MIDDLE RAILS, BRACES AND TOP RAIL) SHALL BE HOT DIP GALVANIZED SCHEDULE 40 TUBULAR STEEL WITH AN OUTSIDE DIAMETER AS INDICATED ON THE DRAWING. A POST TOP FITTING OF GALVANIZED STEEL WILL BE INSTALLED TO EXCLUDE MOISTURE.

POSTS CAPS - ALL POST CAPS TO USE THE BARBED WIRE OUTRIGGER BRACKET AND SHALL BE ATTACHED TO THE POST WITH TAMPER RESISTANT SCREWS, BRADS, OR BOLTS.

TOP RAIL - A MINIMUM OF ONE COUPLING IN EACH STRAIGHT RUN OF TOP RAIL, SHALL HAVE A HEAVY SPRING INSERTED WITHIN THE COUPLING TO TAKE UP EXPANSION AND CONTRACTION OF THE TOP RAIL. THE TOP RAIL SHALL BE FASTENED TO TERMINAL POSTS WITH PRESSED STEEL CONNECTIONS.

MIDDLE RAIL - THE MIDDLE RAIL SHALL BE OF THE SAME MATERIAL AS THE TOP RAIL AND INSTALLED WITH HOT DIP GALVANIZED FITTINGS ATTACHED TO THE POSTS.

BRACE RAIL - BRACE RAIL MATERIAL SHALL BE OF THE MATERIAL AS THE TOP RAIL AND LOCATED 2/3 OF THE DISTANCE UP FROM THE BOTTOM OF THE FABRIC. BRACE RAILS SHALL BE SECURELY FASTENED TO POSTS BY SUITABLE PRESSED STEEL CONNECTIONS.

TRUSS RODS - SHALL BE 3/8" ROUND GALVANIZED STEEL RODS WITH GALVANIZED TURNBUCKLES. THE ZINC COATING SHALL BE NOT LESS THAN 1.2 OUNCES PER SQUARE FOOT OF SURFACE.

TENSION WIRE - THE TENSION WIRE SHALL BE OF #7 GAUGE HOT DIP GALVANIZED SPRING TENSION WIRE WITH A BREAKING STRENGTH OF NOT LESS THAN 1900 POUNDS. THIS WIRE SHALL BE KEPT TAUT WITH GALVANIZED TURNBUCKLES AND ATTACHED TO POSTS WITH GALVANIZED HARDWARE OR CABLE CLAMPS.

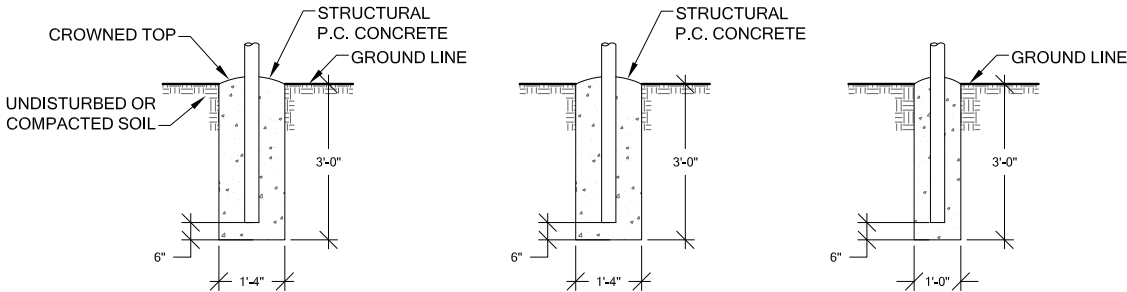
FABRIC TIES - THE FABRIC TIES SHALL BE ALUMINUM WIRE. NOT LESS THAN #9 GAGE.

STRETCHER BARS - THE STRETCHER BARS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" x 3/4" AND NOT LESS THAN 2" SHORTER THAN THE FABRIC. STRETCHER BAR BANDS SHALL BE FLAT GALVANIZED STEEL BARS NOT LESS THAN 5/16" x 1-1/2" WITH 5/16" DIAMETER GALVANIZED CARRIAGE BOLT.

BARBED WIRE - BARBED WIRE OF GALVANIZED STEEL (OR ALUMINUM) CONSISTING OF 12 1/2 GAUGE WIRE WITH 4-POINT BARBS OF 14 GAUGE WIRE SPACED 5 INCHES APART.

GATE FRAMES SHALL BE CONSTRUCTED OF 2-1/2 INCH OUTSIDE DIAMETER HEAVY DUTY GALVANIZED STEEL PIPE. THE GATES SHALL BE ASSEMBLED USING CORNER FITTINGS OF HEAVY PRESSED STEEL OR MALLEABLE CASTINGS OR MAY BE WELDED IF THE ENTIRE GATE FRAME IS HOT DIP GALVANIZED AFTER THE WELDING. ALL GATES SHALL BE EQUIPPED WITH HEAVY DUTY GALVANIZED STEEL TYPE HINGES WITH LARGE BEARING SURFACES OF ADEQUATE STRENGTH TO SUPPORT THE GATE. THE HINGES SHALL NOT TWISTED OR TURN UNDER THE ACTION OF THE GATE. GATES WILL PROVIDE A FULL RANGE OF MOTION AND BE EASILY OPENED AND CLOSED BY ONE PERSON. GATE LATCH SHALL BE CARGO PROTECTORS, INC. MODEL FL-100. LATCH SHALL BE EQUIPPED TO RECEIVE A PADLOCK.

PROVIDE R.F. WARNING SIGNAGE ON ALL GATES.

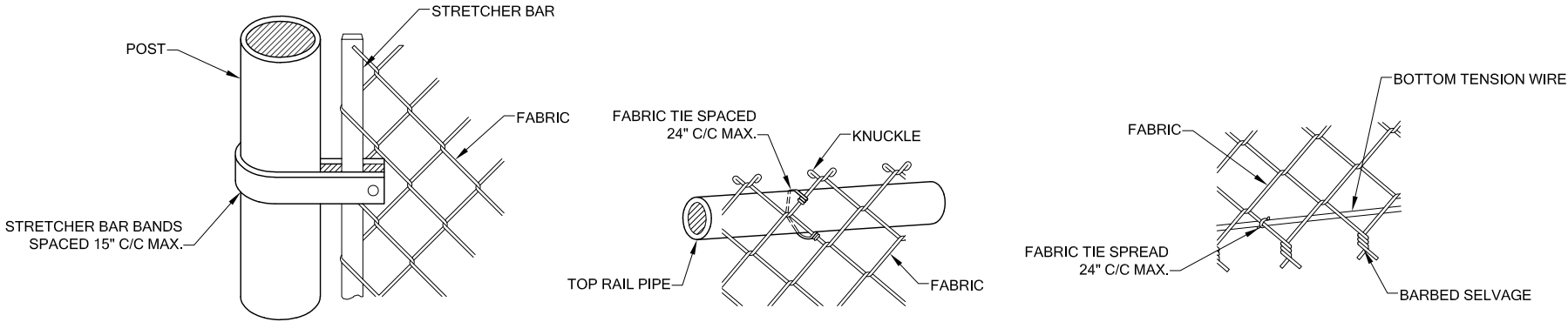


FOOTING FOR TERMINAL OR CORNER POST

FOOTING FOR GATE POST

FOOTING FOR LINE POST

1 POST FOOTING DETAIL  
A-9 SCALE: NTS



METHOD OF FASTENING STRETCHER BAR TO POST

METHOD OF TYING FABRIC TO PIPE

METHOD OF TYING FABRIC TO TENSION WIRE

2 FABRIC/BAR CONNECTIONS  
A-9 SCALE: NTS



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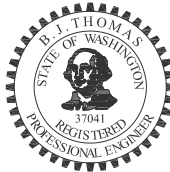
DRAWN BY:

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LICENSURE:



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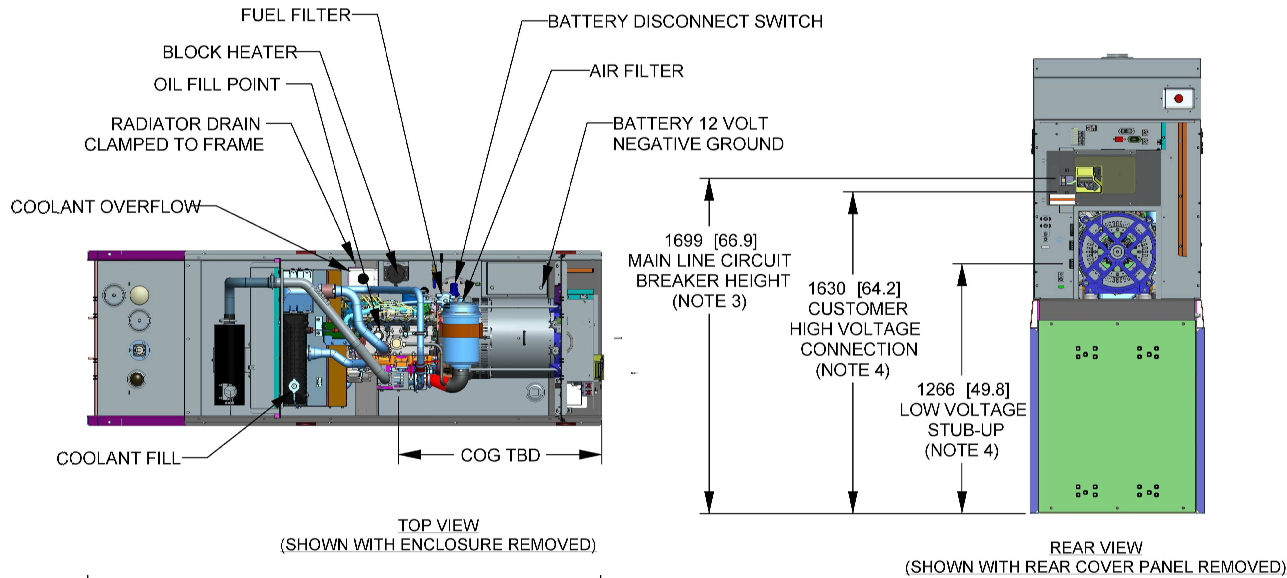
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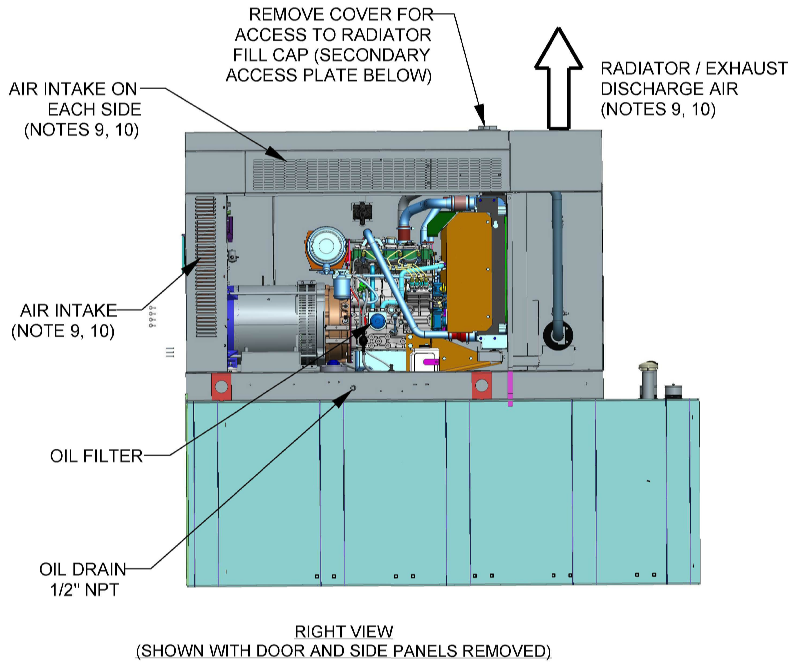
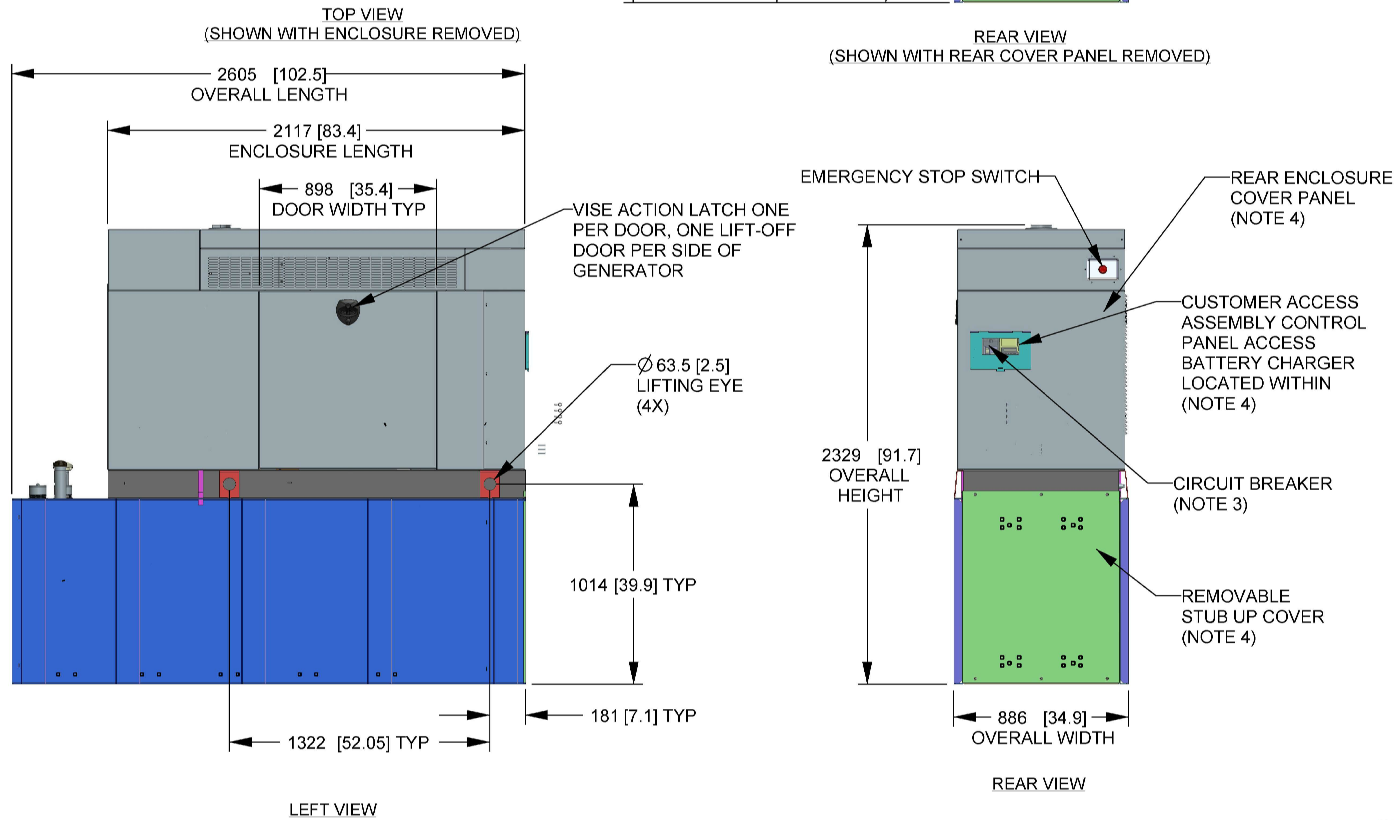
FENCE DETAILS

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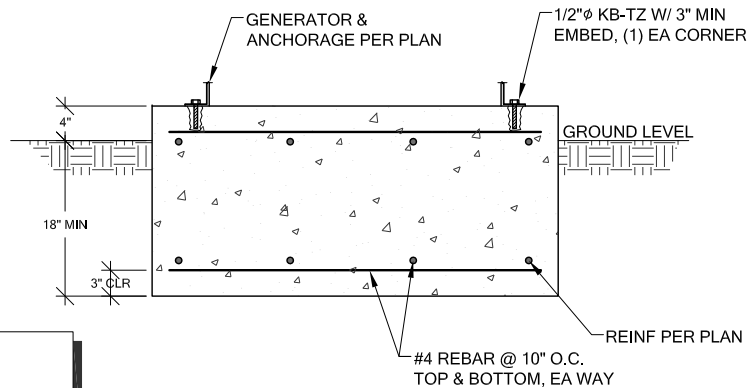
A-9



- NOTES:
1. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
  2. BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
  3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
    - SEE SPECIFICATION SHEET OR OWNERS MANUAL
    - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
    - CONTROL PANEL INCLUDES INTEGRATED BATTERY CHARGER
  4. REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
    - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
    - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES
  5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
  6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
  8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
  9. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
  11. GENERATOR MUST BE GROUNDED.



GENERAC #RD025 25KW DIESEL GENERATOR



ANCHOR NOTE:  
1/2" KWIK BOLT TZ W/ 3" EMBEDMENT AT EACH CORNER.

1 GENERATOR PAD DETAIL  
A-10 SCALE: NTS



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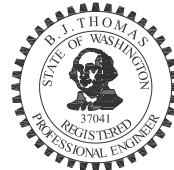
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DRAWING TITLE:

**GENERATOR  
DETAILS**

DRAWING NUMBER:

**A-10**

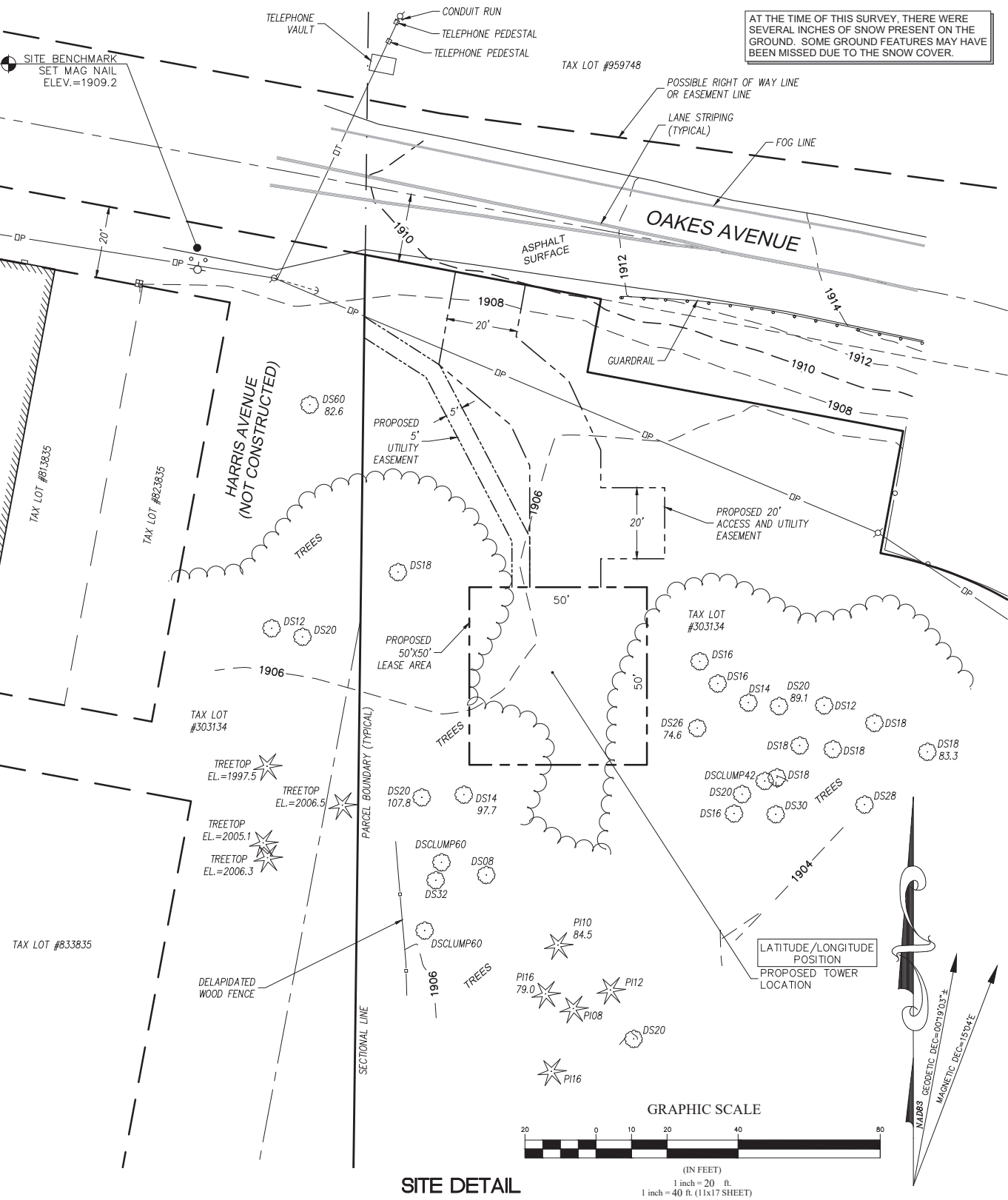
LEGAL DESCRIPTION

NO TITLE RESEARCH PROVIDED AT THIS TIME

EASEMENTS

THE FOLLOWING EASEMENTS FROM THE REFERENCED TITLE REPORT CONTAIN SUFFICIENT INFORMATION TO BE DEPICTED ON THE PLAN. OTHER EASEMENTS OR ENCUMBRANCES, IF ANY, MAY AFFECT THE PROPERTY, BUT LACK SUFFICIENT INFORMATION TO BE SHOWN.

NO TITLE RESEARCH PROVIDED AT THIS TIME



CERTIFICATION

I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, LLC, A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS; TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLDCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED, THEIR SUCCESSORS AND ASSIGNS AS THEIR INTERESTS MAY APPEAR; AND

KEVIN J. WALKER, PLS 41038

DATED

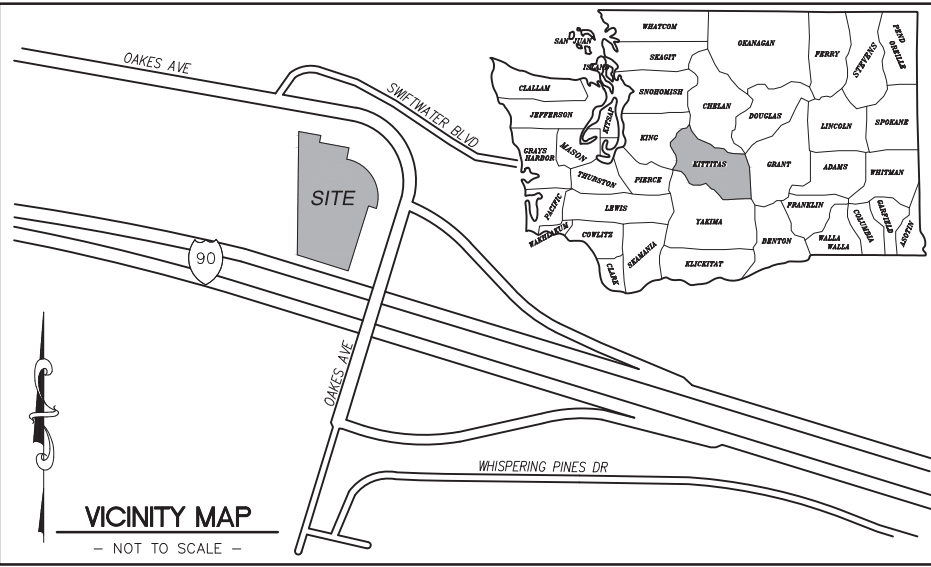
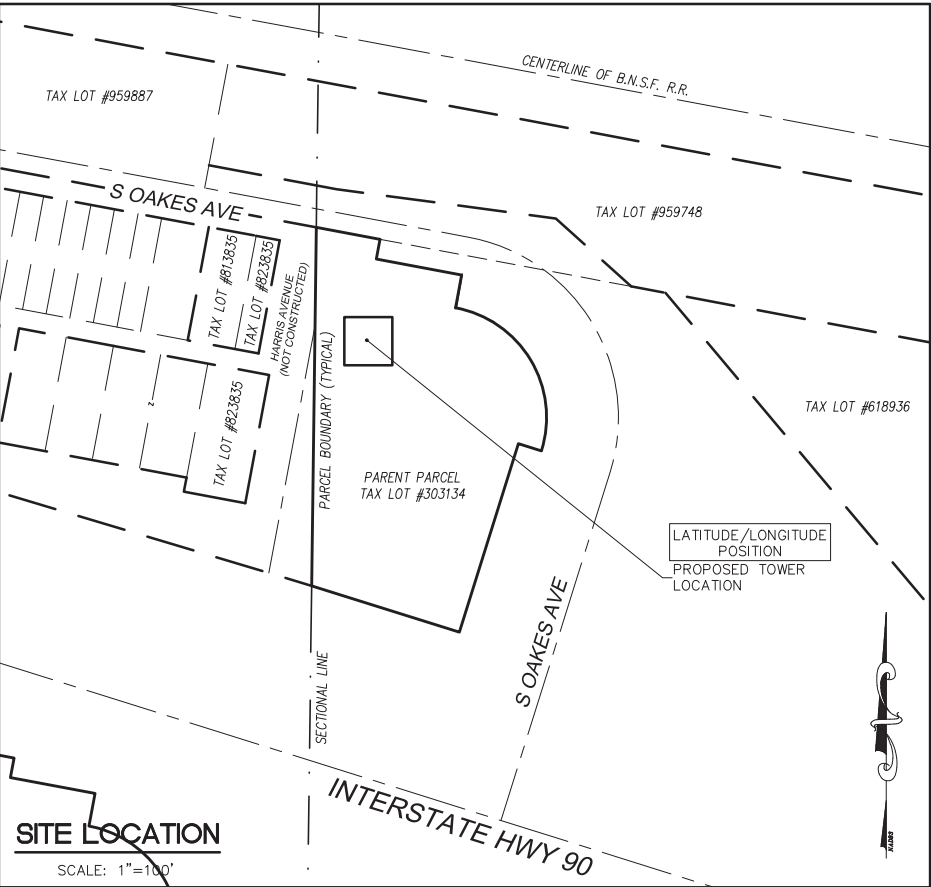
NOTES

- NO TITLE RESEARCH PROVIDED AT THIS TIME. CALCULATED BOUNDARY MAY CHANGE UPON RECEIPT OF TITLE.
- FIELD WORK CONDUCTED IN JANUARY, 2020.
- BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD83).
- BOUNDARY SHOWN BASED ON RECORD OF SURVEY NO. 523231. COUNTY INFORMATION INDICATES POSSIBLE MULTIPLE RIGHTS HAVE THE SAME TAX LOT NUMBER. UNDERGROUND UTILITIES SHOWN HEREON, IF ANY, WERE DELINEATED FROM SURFACE EVIDENCE AND/OR UTILITY COMPANY RECORDS. CRITICAL LOCATIONS SHOULD BE VERIFIED PRIOR TO DESIGN AND CONSTRUCTION.
- FEMA DESIGNATION: ZONE A (AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED) PANEL 5300960001B, EFFECTIVE DATE MAY , 1981.
- THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR OTHER EASEMENTS AT THE TIME THE SURVEY WAS COMPLETED.

LATITUDE/LONGITUDE POSITION

COORDINATE DATA AT PROPOSED TOWER LOCATION:  
NAD 83  
LAT - 47°11'32.69" N  
LONG - 120°56'12.53" W  
NAVD 88  
ELEV.= 1905.6 FEET

LAT - 47.192414° N  
LONG - 120.936814° W  
BENCHMARK IS BASED ON WSRN REFERENCE NETWORK.  
ELEVATION DERIVED USING GPS. ACCURACY MEETS OR EXCEEDS 1A STANDARDS AS DEFINED ON THE FAA ASAC INFORMATION SHEET 91:003.



LEGEND

- SUBJECT BOUNDARY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- DP OVERHEAD POWER LINE
- UP BURIED POWER LINE
- G BURIED GAS LINE
- DT OVERHEAD TELEPHONE LINE
- UT BURIED TELEPHONE LINE
- W BURIED WATER LINE
- SS BURIED SANITARY SEWER
- SD BURIED STORM DRAIN
- DITCH LINE/FLOW LINE
- ROCK RETAINING WALL
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE/WIRE FENCE
- TRANSFORMER
- LIGHT STANDARD
- POWER VAULT
- UTILITY BOX
- UTILITY POLE
- POLE GUY WIRE
- GAS VALVE
- GAS METER
- TELEPHONE VAULT
- TEL. MANHOLE
- TELEPHONE RISER
- FIRE HYDRANT
- GATE VALVE
- WATER METER
- FIRE STAND PIPE
- IRRIGATION CONTROL
- CATCH BASIN, TYPE I
- CATCH BASIN, TYPE II
- SIGN
- BOLLARD
- MAIL BOX
- SPOT ELEVATION

NOTE:  
1) ALL ELEVATIONS SHOWN ARE ABOVE MEAN SEA LEVEL (AMSL) AND ARE REFERENCED TO THE NAVD88 DATUM.  
2) ALL TOWER, TREE AND APPURTENANCE HEIGHTS ARE ABOVE GROUND LEVEL (AGL) AND ARE ACCURATE TO ± 0.5 FEET OR ± 1% OF TOTAL HEIGHT, WHICHEVER IS GREATER.

TREE LEGEND

- DECIDUOUS TREE  
AL=ALDER  
MP=MAPLE  
DS=DECIDUOUS  
MA=MADRONA  
OK=OAK  
CH=CHERRY
- EVERGREEN TREE  
CE=CEDAR  
DF=DOUGLAS FIR  
HE=HEMLOCK  
PI=PINE  
EVG=EVERGREEN

NOTE:  
TREE DRIP LINES ARE NOT TO SCALE. TREE SYMBOLS REFERENCE TRUNK LOCATION ONLY. TRUNK DIAMETERS WERE APPROXIMATED AT 3.5' TO 4' ABOVE GROUND LEVEL. TREES SHOWN ARE FOR REFERENCE ONLY AND OTHER TREES AND VEGETATION MAY EXIST.

SITE INFORMATION

TAX LOT NUMBER 303134 MAP #20-15-26034-0002  
SITE ADDRESS N/A  
SITE CONTACT  
PHONE NUMBER  
ZONING 67 SERVICES GOVERNMENTAL (CITY OF CLE ELUM)  
TOTAL LOT AREA TO BE DETERMINED  
PROJECT AREA 2500 S.F.

SURVEY REFERENCE

- RECORD OF SURVEY PER A.F. NO. 523231, RECORDS OF KITTITAS COUNTY.
- RECORD OF SURVEY PER A.F. NO. 200412170002, RECORDS OF KITTITAS COUNTY.

BOUNDARY DISCLAIMER

THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY. SUBJECT AND ADJACENT PROPERTY LINES ARE DEPICTED USING FIELD-FOUND EVIDENCE AND RECORD INFORMATION.

CAUTION!

UNDERGROUND UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY BE INCOMPLETE. STATE LAW REQUIRES THAT CONTRACTOR CONTACT THE ONE-CALL UTILITY LOCATE SERVICE AT LEAST 48 HOURS BEFORE STARTING ANY CONSTRUCTION.

1-800-424-5555

SURVEY PREPARED FOR:



VERTICAL BRIDGE HOLDINGS, LLC  
750 PARK OF COMMERCE DRIVE,  
SUITE 200  
BOCA RATON, FL 33487

SURVEY PREPARED BY:



DUNCANSON

Company, Inc.

145 SW 155th Street, Suite 102  
Seattle, Washington 98166  
Phone 206.244.4141  
Fax 206.244.4455

B.J. THOMAS, PE

SITE  
CLE ELUM DT  
US-WA-5105

S 1/2 S 26, T20N, R15E, WM  
CLE ELUM, WA 98922  
KITTITAS COUNTY

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FLD. BOOK:	543/98
DRAWN BY:	LAC
JOB #:	01808.1634
DATE:	02/03/20

REVISIONS

DATE	DESCRIPTION	BY
2/24/20	ADD LEASE AND ACCESS UTILITY EASEMENTS	KJW

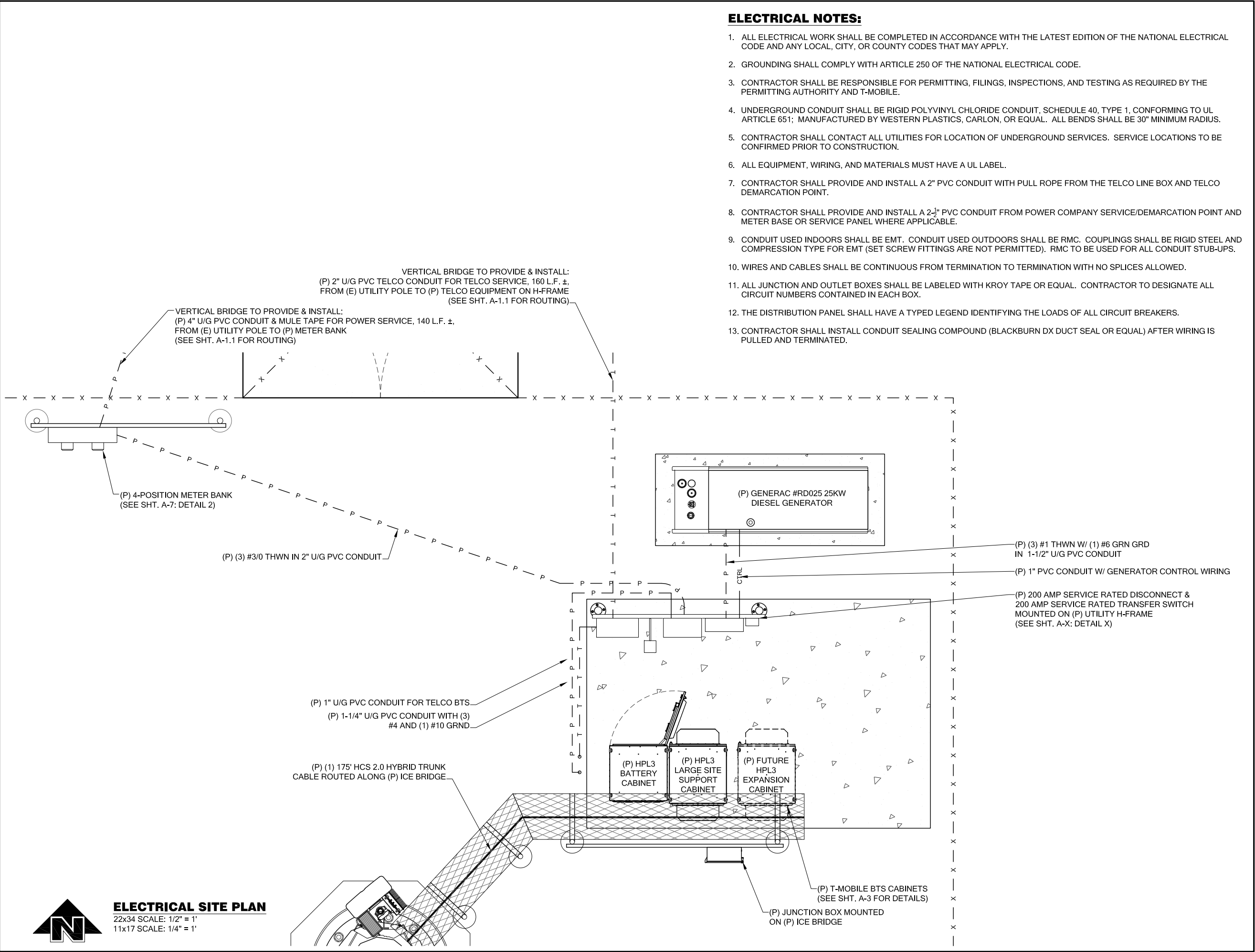


SHEET TITLE  
EXISTING SITE SURVEY  
SEC 26, TWP 20 N, R15 E, WM

SHEET NUMBER

SV1





**ELECTRICAL NOTES:**

1. ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ANY LOCAL, CITY, OR COUNTY CODES THAT MAY APPLY.
2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PERMITTING, FILINGS, INSPECTIONS, AND TESTING AS REQUIRED BY THE PERMITTING AUTHORITY AND T-MOBILE.
4. UNDERGROUND CONDUIT SHALL BE RIGID POLYVINYL CHLORIDE CONDUIT, SCHEDULE 40, TYPE 1, CONFORMING TO UL ARTICLE 651; MANUFACTURED BY WESTERN PLASTICS, CARLON, OR EQUAL. ALL BENDS SHALL BE 30" MINIMUM RADIUS.
5. CONTRACTOR SHALL CONTACT ALL UTILITIES FOR LOCATION OF UNDERGROUND SERVICES. SERVICE LOCATIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION.
6. ALL EQUIPMENT, WIRING, AND MATERIALS MUST HAVE A UL LABEL.
7. CONTRACTOR SHALL PROVIDE AND INSTALL A 2" PVC CONDUIT WITH PULL ROPE FROM THE TELCO LINE BOX AND TELCO DEMARCATION POINT.
8. CONTRACTOR SHALL PROVIDE AND INSTALL A 2-1/2" PVC CONDUIT FROM POWER COMPANY SERVICE/DEMARCATON POINT AND METER BASE OR SERVICE PANEL WHERE APPLICABLE.
9. CONDUIT USED INDOORS SHALL BE EMT. CONDUIT USED OUTDOORS SHALL BE RMC. COUPLINGS SHALL BE RIGID STEEL AND COMPRESSION TYPE FOR EMT (SET SCREW FITTINGS ARE NOT PERMITTED). RMC TO BE USED FOR ALL CONDUIT STUB-UPS.
10. WIRES AND CABLES SHALL BE CONTINUOUS FROM TERMINATION TO TERMINATION WITH NO SPLICES ALLOWED.
11. ALL JUNCTION AND OUTLET BOXES SHALL BE LABELED WITH KROY TAPE OR EQUAL. CONTRACTOR TO DESIGNATE ALL CIRCUIT NUMBERS CONTAINED IN EACH BOX.
12. THE DISTRIBUTION PANEL SHALL HAVE A TYPED LEGEND IDENTIFYING THE LOADS OF ALL CIRCUIT BREAKERS.
13. CONTRACTOR SHALL INSTALL CONDUIT SEALING COMPOUND (BLACKBURN DX DUCT SEAL OR EQUAL) AFTER WIRING IS PULLED AND TERMINATED.



**ELECTRICAL SITE PLAN**  
22x34 SCALE: 1/2" = 1'  
11x17 SCALE: 1/4" = 1'



**PROJECT INFORMATION:**

**CLE ELUM DT  
US-WA-5105**  
200 SOUTH PENNSYLVANIA AVE  
CLE ELUM, WA 98922

**ISSUED FOR:**

**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE:	DESCRIPTION:	CHK. BY:
4	7/15/2020	MINOR REV	BJT
3	3/18/2020	REVISED PER REDLINES	BJT
2	2/25/2020	UPDATED SURVEY ADDED	BJT
1	2/12/2020	ISSUED DESIGN REVIEW	BJT

**PLANS PREPARED BY:**

**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY:      CHK. BY:**

JL

BJ

**LICENSURE:**



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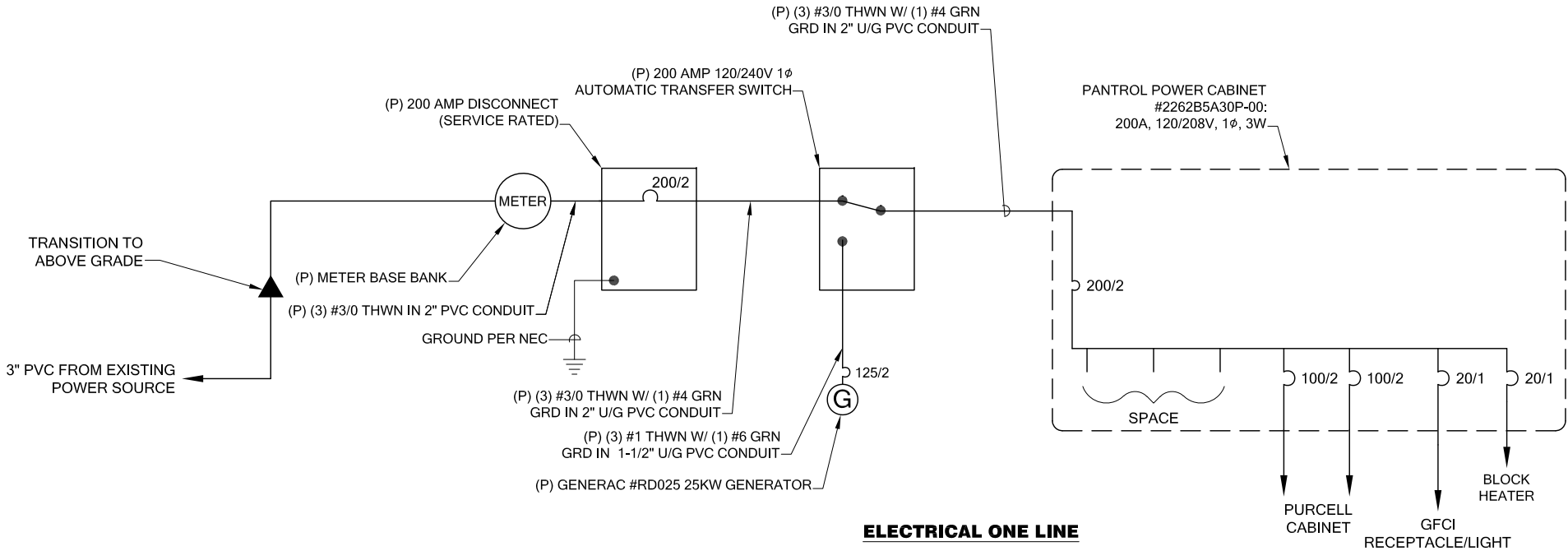
**ELECTRICAL SITE  
PLAN**

**DRAWING NUMBER:**

**E-1**

PANEL SCHEDULE									
PANTROL									
120/208V SINGLE PHASE 200 AMP MAIN BREAKER W/ TVSS 65,000 AIC RATING									
CIRCUIT DESCRIPTION	KVA			A	B			KVA	CIRCUIT DESCRIPTION
PURCELL CABINET	12	100		1	2	20		0.19	RECEPTACLE & LIGHT
" " "				3	4	20		0.19	BLOCK HEATER
PURCELL CABINET	12	100		5	6				
" " "				7	8				
				9	10				
				11	12				
				13	14				
				15	16				
				17	18				

LOAD CALCS:	
(5) 3 KW RECTIFIERS =	15 KVA
RECEPTACLE & LIGHT =	0.19 KVA
BLOCK HEATER =	0.19 KVA
TOTAL	15.38 KVA 64 AMPS



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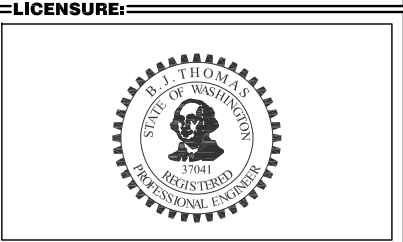
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**DRAWN BY:** JL **CHK. BY:** BJ



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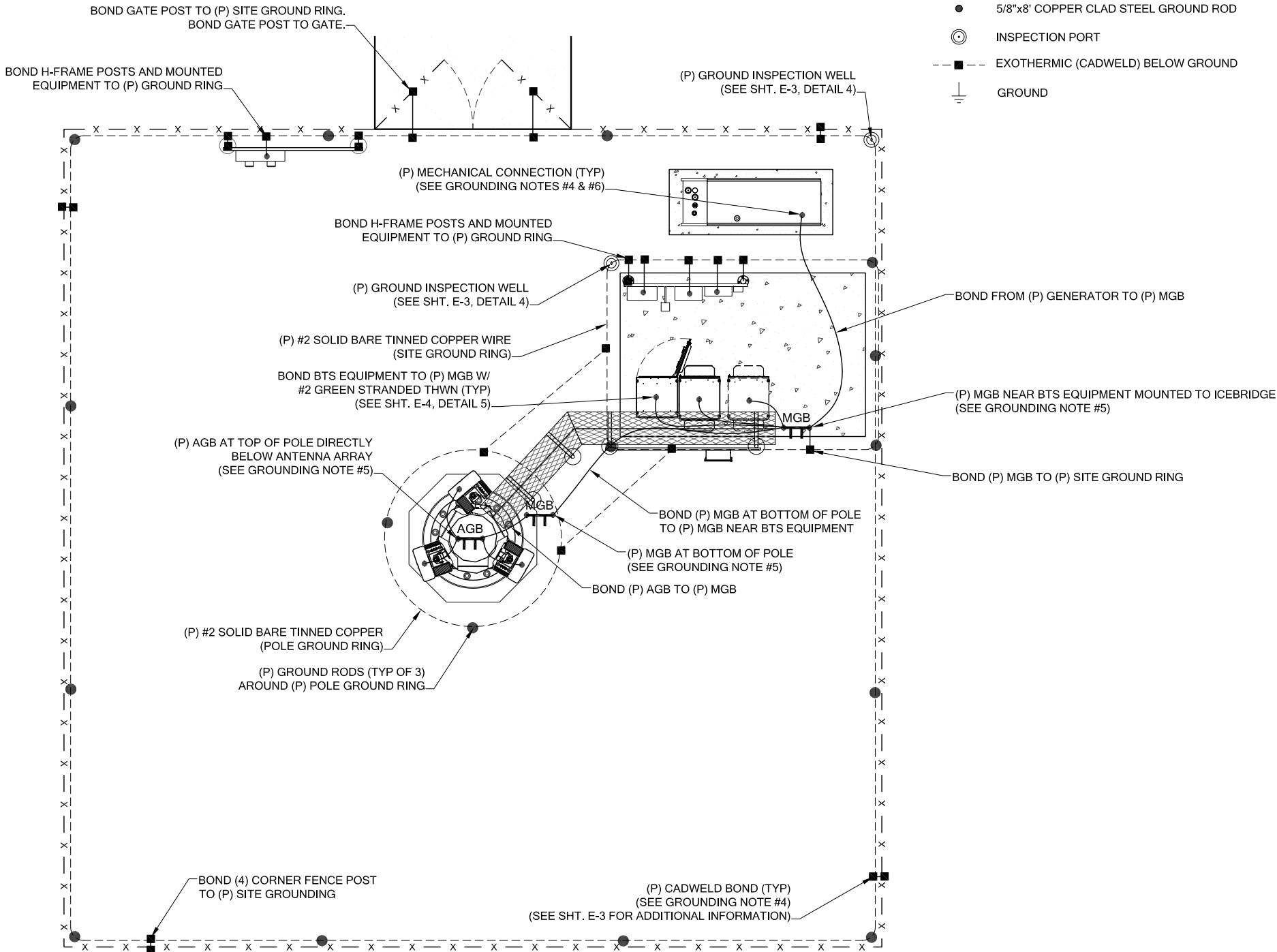
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**DRAWING TITLE:**

**ELECTRICAL  
DETAILS**

**DRAWING NUMBER:**

**E-1.1**



**1**  
E-2  
**ELECTRICAL GROUNDING PLAN**  
22x34 SCALE: 1/2" = 1'  
11x17 SCALE: 1/4" = 1'



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206-851-1106

**DRAWN BY: CHK. BY:**

JL

BJ

**LICENSURE:**



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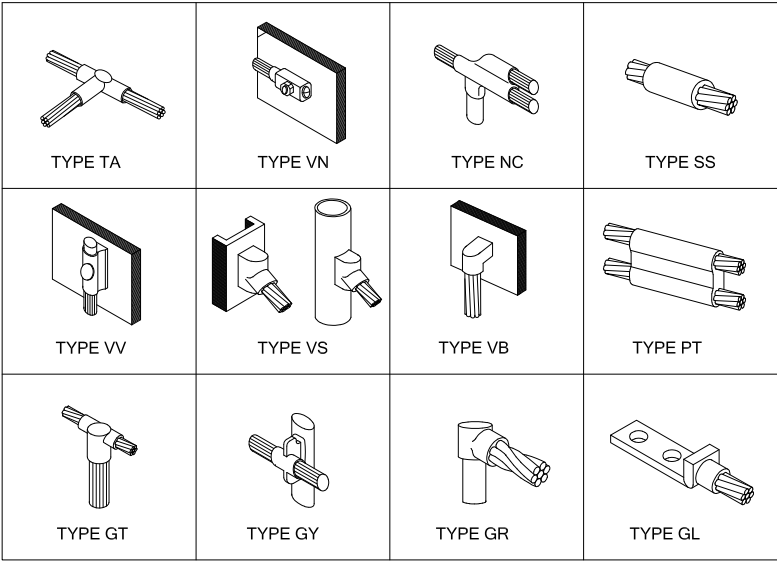
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**ELECTRICAL  
GROUNDING PLAN**

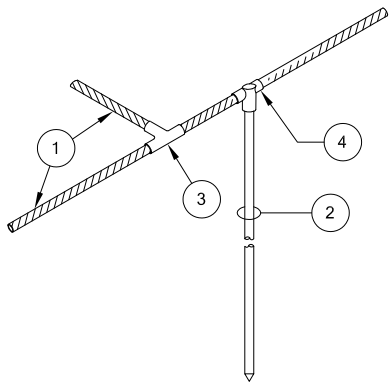
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**E-2**



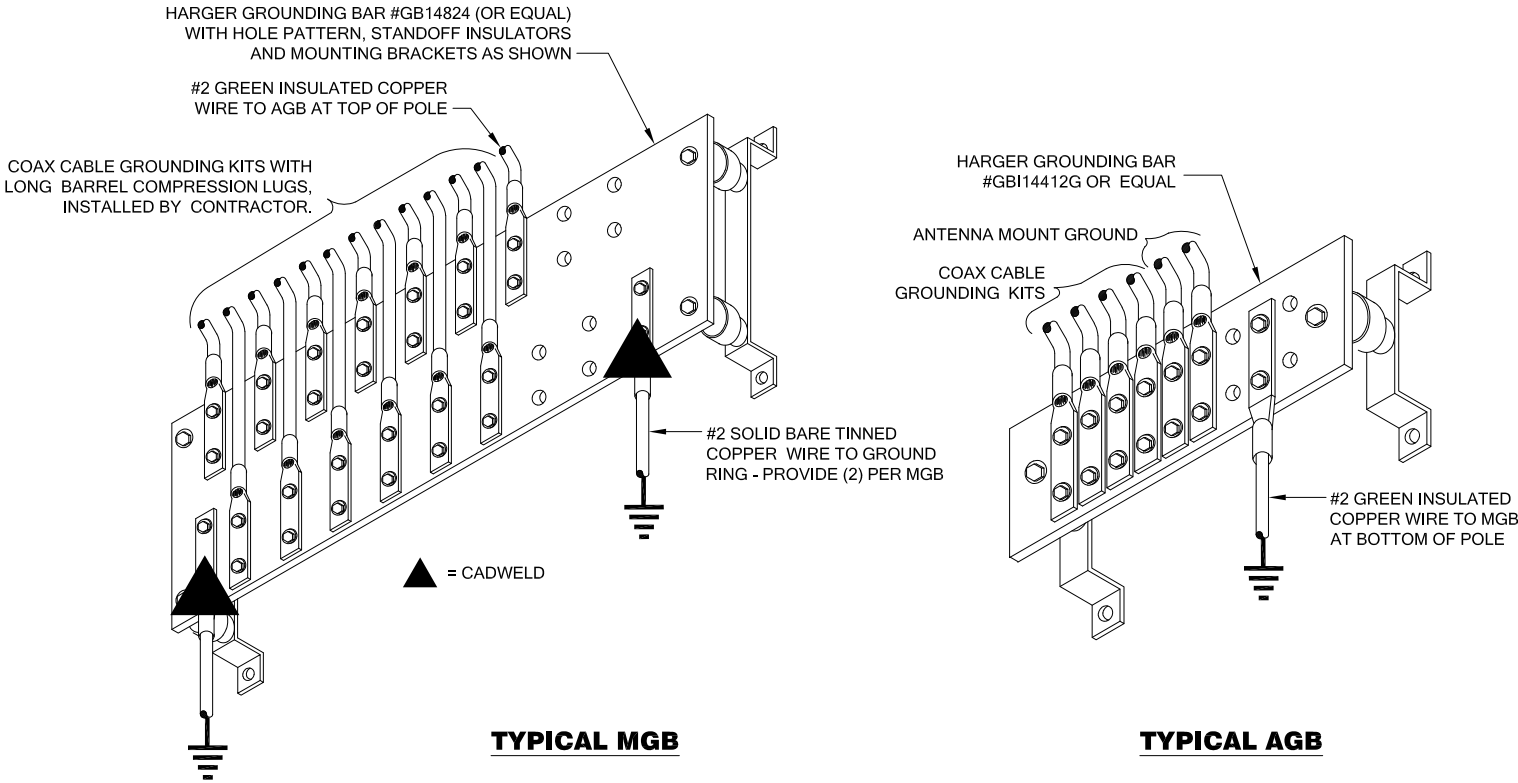


1  
E-3  
**TYPICAL CADWELD CONNECTIONS**  
N.T.S.

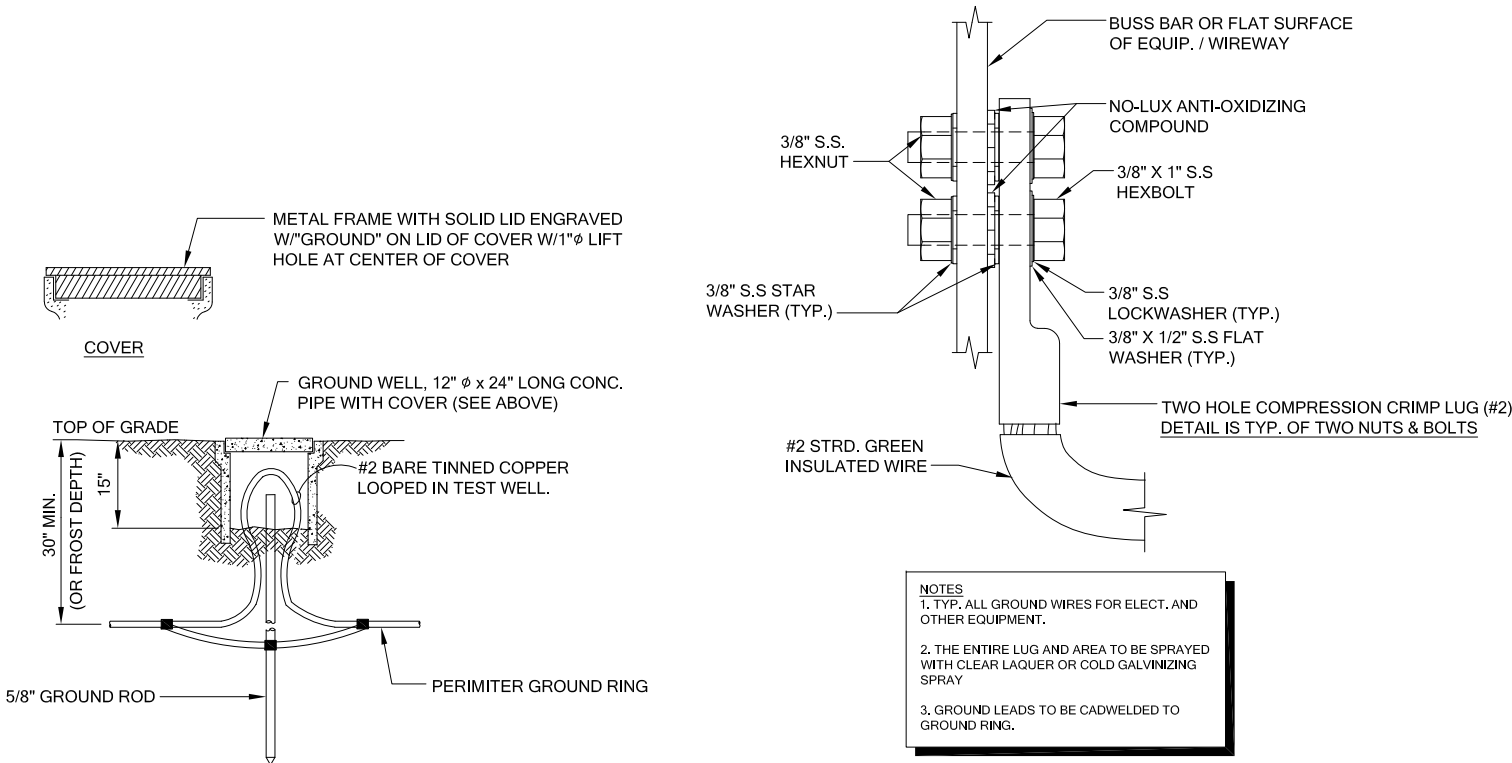


- 1 MAIN CONDUCTOR, COPPER CABLE  
2 5/8"x8" COPPER CLAD STEEL GROUND ROD  
3 CADWELD TYPE "TA"  
4 CADWELD TYPE "GT"

3  
E-3  
**GROUND ROD CONNECTION**  
N.T.S.



2  
E-3  
**GROUND BAR DETAILS**  
N.T.S.



- NOTES  
1. TYP. ALL GROUND WIRES FOR ELECT. AND OTHER EQUIPMENT.  
2. THE ENTIRE LUG AND AREA TO BE SPRAYED WITH CLEAR LAQUER OR COLD GALVANIZING SPRAY  
3. GROUND LEADS TO BE CADWELDED TO GROUND RING.

5  
E-3  
**TYPICAL CABINET GROUNDING DETAIL**  
N.T.S.

T-Mobile

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PLANS PREPARED BY:

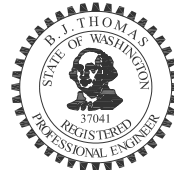
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206-851-1106

DRAWN BY: CHK. BY:

JL

BJ

LICENSURE:



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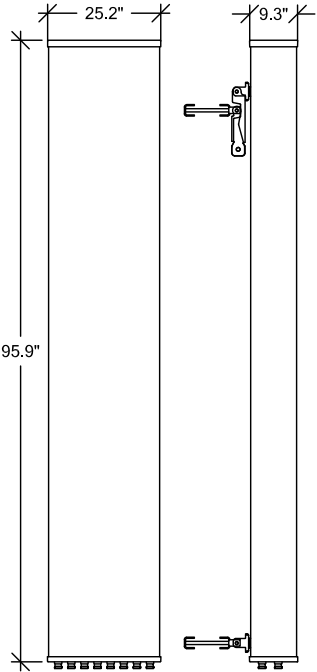
DRAWING TITLE:

**ELECTRICAL  
GROUNDING  
DETAILS**

DRAWING NUMBER:

**E-3**

SITE LOADING CHART									
SECTOR	COLOR	ANTENNA MODEL #	VENDOR	AZIMUTH (TN)	MECHANICAL DOWNTILT	ELECTRICAL DOWNTILT	RADIATION CENTER	HYBRID CABLE LENGTH	COAX CABLES
ALPHA	RED	FFHH-65C-R3	COMMSCOPE	120°	0°	TBD	156'-0" AGL	(1) 175' HCS 2.0 HYBRID TRUNK CABLE	N/A
BETA	GREEN	FFHH-65C-R3	COMMSCOPE	250°	0°	TBD	156'-0" AGL		
GAMMA	BLUE	FFHH-65C-R3	COMMSCOPE	320°	0°	TBD	156'-0" AGL		



COMMScope ANTENNA DATA				
MECHANICAL SPECIFICATIONS				
PART NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT
FFHH-65C-R3	95.9 in	25.2 in	9.3 in	127.6 lbs
CONNECTORS	STANDARD MOUNTING HARDWARE			
(8) 7-16 DIN	INCLUDED			
ELECTRICAL SPECIFICATIONS				
FREQUENCY	POLARIZATION	GAIN	AZIMUTH B.W.	
617-2360 MHz	±45°	15.8-19.6 dBi	55°- 67°	
	VSWR	MAX INPUT POWER	ELEVATION B.W.	
	<1.5:1	300 WATTS	4.4° - 10.2°	

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JL	BJ
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LICENSURE:

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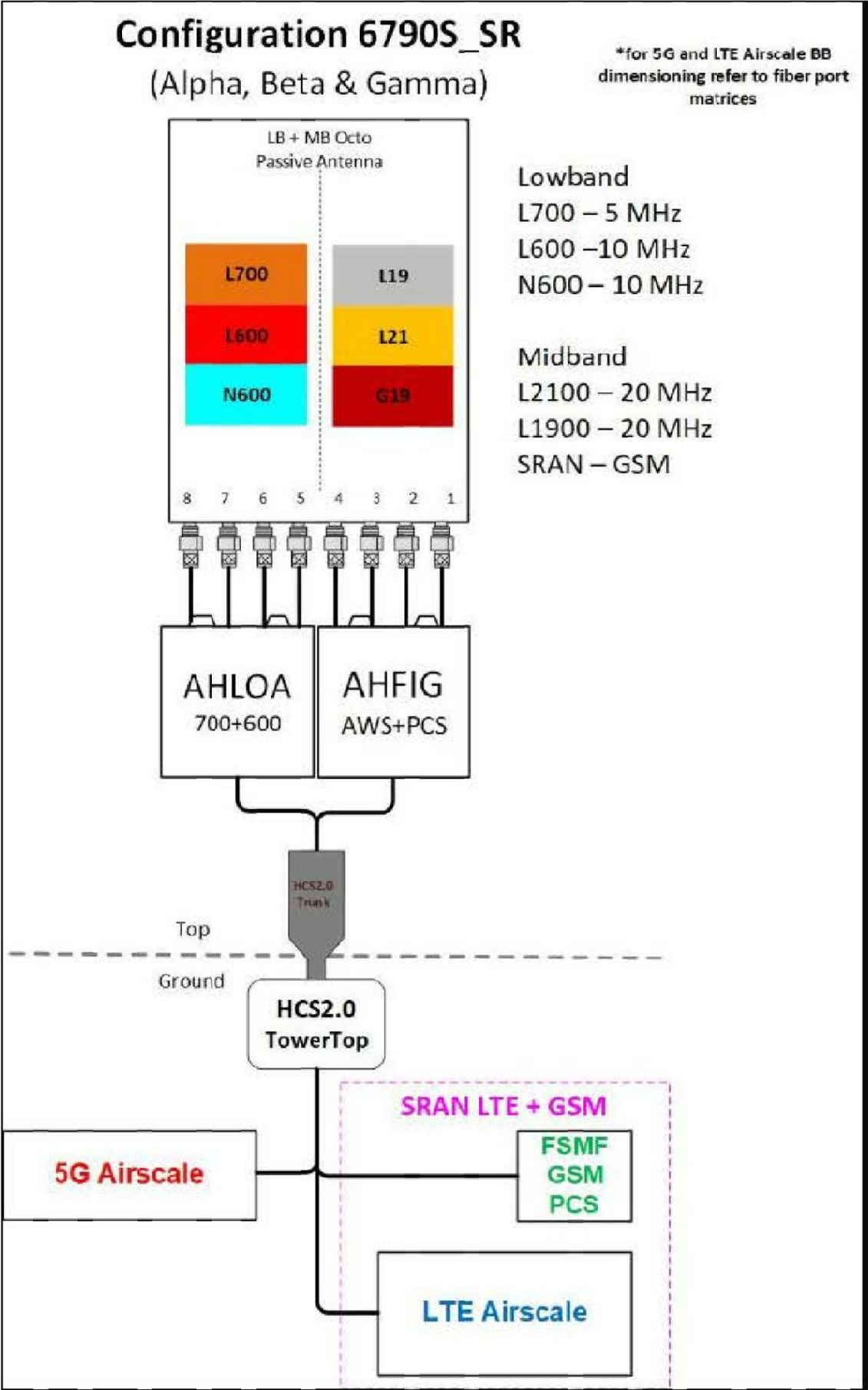
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DRAWING TITLE:

RF DETAILS

DRAWING NUMBER:

RF-1



Notes: