

**PCD APPROVED SITE PLAN**  
Any proposed changes to the approved site plan, such as but not limited to added hard surfaces, HVAC units, tree removals and accessory structures, must be submitted to the Building Department as a revision to the building permit for review and approval by all departments prior to implementation.

All mechanical units shall comply with the maximum environmental noise levels established pursuant to the Noise Control Act of 1974, Revised Code of Washington (RCW) 70.107. See Chapter 173-60 Washington Administrative Code (WAC).

**NOTICE**  
HOURS OF WORK: 7AM TO 8PM MON FRI  
9AM TO 6PM SAT. NO WORK SUNDAYS & HOLIDAYS (PER KZC SEC. 115.25)  
Exceptions must be approved in writing by Planning Official



City of Kirkland  
Reviewed by:  
Thomas Hoque, PCD  
Jason Chappell, FIRE

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021



# T-Mobile

## KIRKLAND/LIVENGOOD

121 THIRD AVENUE  
KIRKLAND, WA 98083

**MUST REMAIN ON  
JOB SITE**

# SITE NUMBER: SE02100T

RFDS: VER: 5  
PROJECT: ANCHOR  
9/24/2020 4:17:40 PM

**LATITUDE 47° 40' 37.72" N (47.677144) LONGITUDE 122° 12' 26.73" W (-122.207425)**  
**PROJECT: ANCHOR**

**PROJECT INFORMATION:**

**KIRKLAND/LIVENGOOD  
SE02100T**  
  
121 THIRD AVENUE  
KIRKLAND, WA 98083

**ISSUED FOR:**

**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE:	DESCRIPTION:	CHK BY:
6	11/20/2020	MINOR REV	BJT
5	11/19/2020	REVISED PER REDLINES	BJT
4	10/19/2020	MINOR REV	BJT
3	10/6/2020	STRUCTURAL NOTE ADDED	BJT
2	9/25/2020	REVISED PER REDLINES	BJT
1	9/18/2020	ISSUED DESIGN REVIEW	BJT

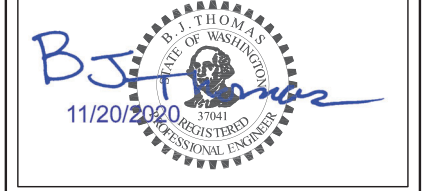
**PLANS PREPARED BY:**

**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 ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION.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 THAT WHICH IS RELATED TO NAMED CLIENT IS STRICTLY PROHIBITED.

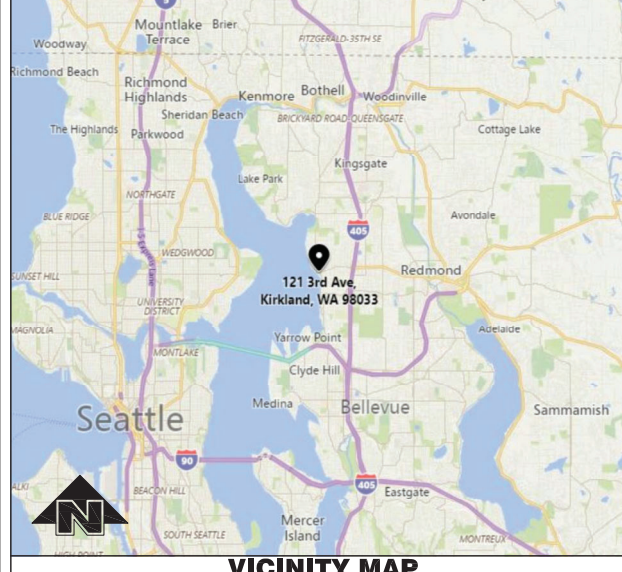
**DRAWING TITLE:**

**TITLE SHEET**

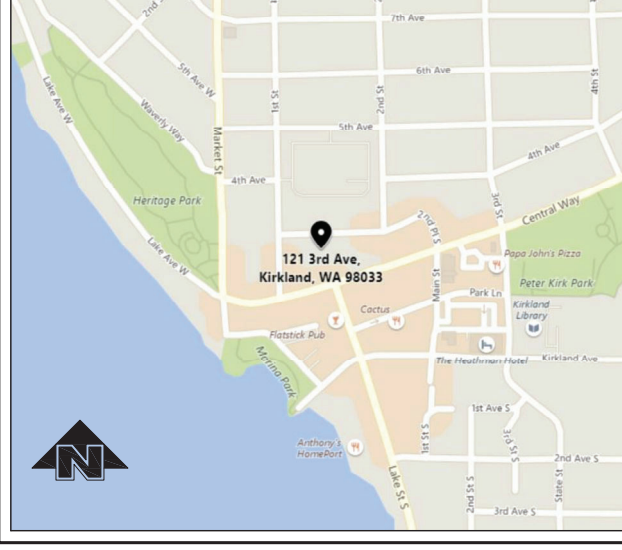
**DRAWING NUMBER:**

**T-1**

**GENERAL LOCATION MAP**



**VICINITY MAP**



**DRIVING DIRECTIONS**

FROM T-MOBILE BOTHELL 4 OFFICE:  
1. DEPART NORTH CREEK PKWY TOWARD NORTH CREEK TRAIL 0.3 MI  
2. TURN RIGHT ONTO NE 195TH ST 0.3 MI  
3. TAKE RAMP LEFT FOR I-405 SOUTH TOWARD RENTON 5.9 MI  
4. AT EXIT 18, TAKE RAMP RIGHT FOR NE 85TH ST TOWARD KIRKLAND 0.5 MI  
5. TURN RIGHT ONTO NE 85TH ST 0.5 MI  
6. ROAD NAME CHANGES TO CENTRAL WAY 0.4 MI  
7. TURN RIGHT ONTO 2ND PL S 243 FT  
8. ROAD NAME CHANGES TO 3RD AVE 509 FT  
  
ARRIVE AT 121 3RD AVE, KIRKLAND, WA 98033

**ZONING INFORMATION**

SITE NUMBER: SE02100T  
SITE NAME: KIRKLAND/LIVENGOOD  
SITE ADDRESS: 121 THRID AVENUE  
KIRKLAND, WA 98083  
  
PARCEL #: 388580-86601  
CURRENT ZONING: CBD 8  
JURISDICTION: CITY OF KIRKLAND  
PARCEL AREA: 0.27 ACRES  
GOV CODE: 2015 IBC, STANDARDS & AMENDMENTS, WAC 51-50  
BUILDING TYPE: II-B  
SITE TYPE: UNSTAFFED TELECOMM FACILITY

**UTILITY PURVEYOR**

POWER COMPANY: PSE  
TELCO COMPANY: FRONTIER

**LEGAL DESCRIPTION**

ABBREVIATED PER ASSESSOR RECORDS:  
KIRKLAND ADD LOTS 6 & 7 TGW N 1/2 OF VAC ALLEY ADJ TO S TGW E 14 FT OF N 1/2 & E 2 FT OF S 1/2 OF VAC ALLEY ADJ ON W AKA PAR A KIRKLAND LLA # K428E - K429W STABBERT REC#8309220798

**PROJECT TEAM**

PROPERTY OWNER: TOPPEN LLC  
PO BOX 908  
KIRKLAND, WA 98083  
  
PROJECT MANAGER: RYKA CONSULTING  
JESSICA PIERCE  
5628 AIRPORT WAY S, STE 112  
SEATTLE, WA 98108  
PHONE #: 206-523-1941  
  
CONSTRUCTION MANAGER: RYKA CONSULTING  
KEITH ELWELL  
5628 AIRPORT WAY S, STE 112  
SEATTLE, WA 98108  
PHONE: (425) 753-3458  
  
SITE ACQUISITION: RYKA CONSULTING  
KELLER HIGBEE  
5628 AIRPORT WAY S, STE 112  
SEATTLE, WA 98108  
  
ZONING: RYKA CONSULTING  
CHRISTINE CONTRERAS  
5628 AIRPORT WAY S, STE 112  
SEATTLE, WA 98108  
PHONE #: 206-523-1941  
  
RF ENGINEER: T-MOBILE  
ADRIAN MORARU  
19807 NORTH CREEK PKWY N  
BOTHELL, WA 98011

**CONSULTING ENGINEER:**

B.J. THOMAS, P.E.  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
PHONE: 206-851-1106  
bjthomas@bjthomaspe.comcastbiz.net

**PROJECT DESCRIPTION**

T-MOBILE PROPOSES TO MODIFY AN EXISTING WIRELESS FACILITY WITH THE FOLLOWING SCOPE OF WORK:  
  
PROPOSED TOWER SCOPE:  
ANTENNAS: REPLACE (3) DODECCAPORTS W/ (3) 6' OCTOPORTS, ADD (3) AEHCS.  
RADIOS: REMOVE (3) AHFIB AND (2) FXFC AND ADD (3) AHFIG, KEEP (3) AHLOA.  
HCS TRUNK: REMOVE (2) 100' CASCADED 1.5 HI-CAP HYBRID SYSTEM AND RUN (2) 200' & (1) 100' HCS 2.0 CABLES/PENDANTS, 30' JUMPERS FOR AHFIGS AND AHLOAS AND AEHCS IN ALPHA AND BETA AND 100' JUMPERS AHFIG, AHLOA AND AEHC IN GAMMA.  
TMS/DIPLEXERS: N/A  
COAX: N/A  
  
PROPOSED GROUND SCOPE:  
REPLACE FCOA TO FAR RIGHT WITH BATTERY CABINET, REPLACE MIDDLE FCOA W/ HPL3, REMOVE PURCELL CABINET, INSTALL AAV CUBE ON WALL, REMOVE EXISTING COVP AND INSTALL (3) HCS 2.0 JUNCTION BOXES ON WALL  
  
RELOCATE LEC ROUTER TO AAV CUBE (COORDINATE W/ CM) INSTALL NEW CSR IFRa IN HPL3 SSC, AMIA WITH RELOCATED AND NEW BASEBAND MODULES PER RFDS.  
ADD NEW FSMF V 103 OR HIGHER TO HPL3 (COORDINATE W/ CM)  
NO POWER UPGRADE REQUIRED, EXISTING PPC W/ 200A PPC W/ SQUARE D BREAKER. INSTALL NEW 200A SQUARE D BREAKER IN EXISTING PPC FOR HPL3 SSC.  
INSTALL 2ND 4" DIA EMT CONDUIT ALONG SIDE EXISTING CONDUIT PATH FROM GARAGE EQUIPMENT AREA ALONG WALL TO EXISTING PULL BOX, CORE DRILL 4" DIA HOLE THROUGH CONCRETE WALL BETWEEN INTERIOR AND EXTERIOR PULL BOX, VERTICAL UP SIDE OF BUILDING NEXT TO EXISTING CONDUIT FROM BOTTOM PULL TO TOP PULL BOX, AND THROUGH PARAPET FROM OUTSIDE PULL BOX TO INTERIOR FACE OF PARAPET.

**CODE COMPLIANCE**

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

**DRAWING INDEX**

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A-1.3 EXISTING ENLARGED GARAGE PLAN  
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RF-2 RF DETAILS

**PROJECT INFORMATION**

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.

**APPROVAL/SIGN OFF OF CONST DRAWINGS**

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:

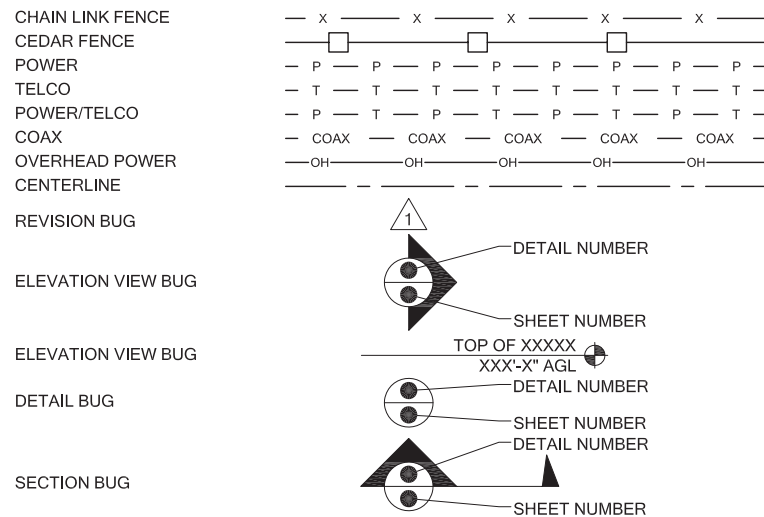
**GENERAL NOTES:**

- DRAWINGS ARE NOT TO BE SCALED, WRITTEN DIMENSIONS TAKE PRECEDENCE, THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.
- 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.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.
- 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.
- CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY LOCATES, SCHEDULING, COORDINATING SPECIAL AND BUILDING DEPARTMENT INSPECTIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND UTILIZING ORIGINAL ROOFING CONTRACTOR AS REQUIRED TO MAINTAIN ANY EXISTING ROOFING WARRANTY.
- 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.

**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 / $\varnothing$	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	GYPSUM	THK	THICK
GB	GYPSUM 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**



**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 \_\_\_\_\_

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

**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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**PLANS PREPARED BY:**

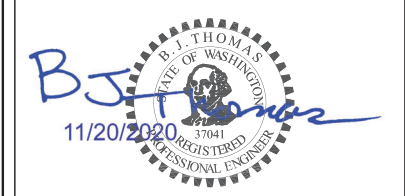
**B. J. THOMAS, P.E.**  
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**MARYSVILLE, WA 98270**  
**206-851-1106**

**DRAWN BY: \_\_\_\_\_ CHK. BY: \_\_\_\_\_**

**JL**

**BJ**

**LICENSURE:**



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**DRAWING TITLE:**

**GENERAL NOTES**

**DRAWING NUMBER:**

**G-1**

CALL TWO WORKING DAYS BEFORE YOU DIG

811

NATIONAL UTILITIES UNDERGROUND LOCATE

ELECTRIC - RED	TEL/CATV - ORANGE
SEWER - GREEN	PROPOSED - WHITE
GAS/OIL - YELLOW	WATER - BLUE
SURVEY - PINK	

SAFETY PRECAUTION SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS



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LICENSURE:



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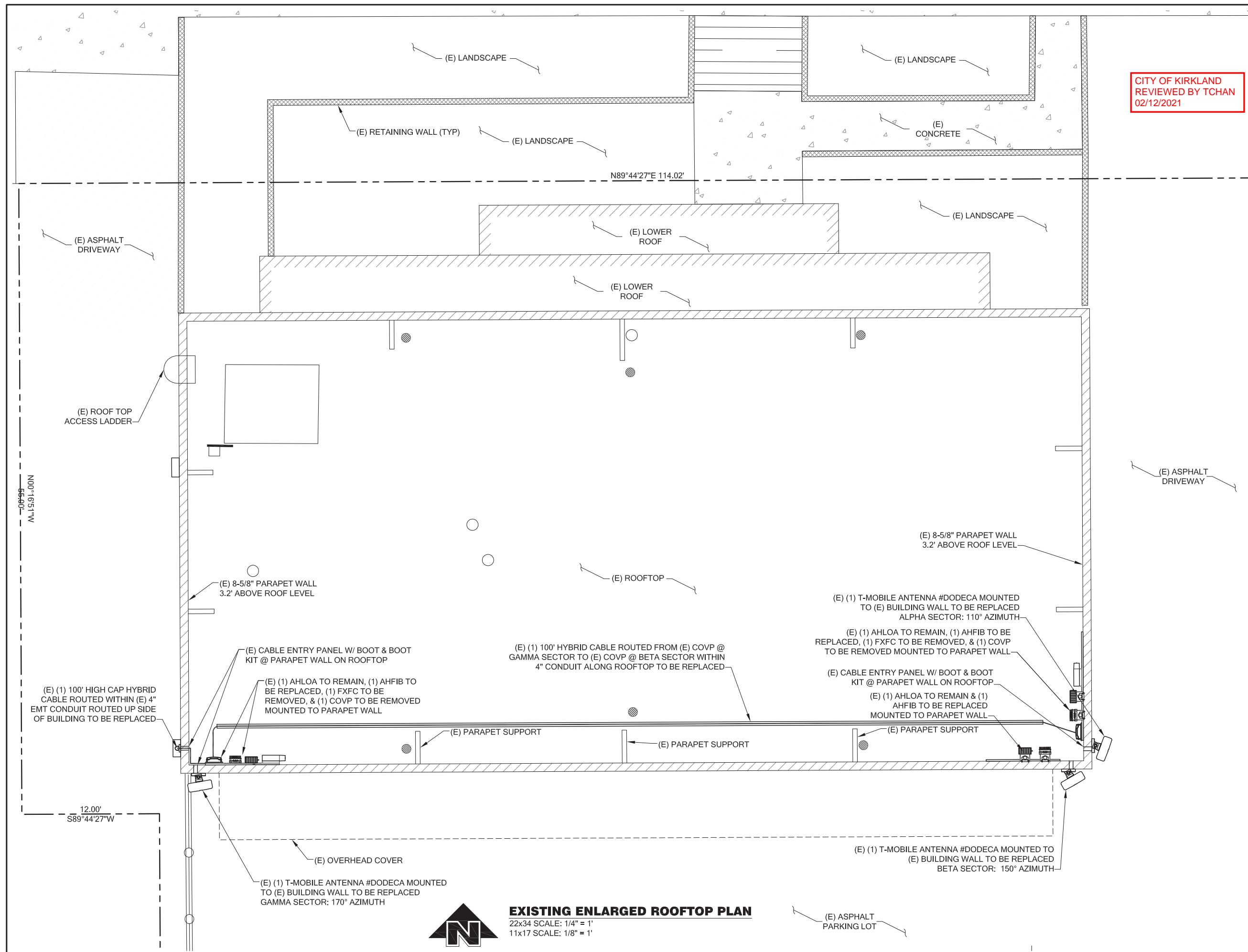
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DRAWING TITLE:

**EXISTING  
ENLARGED  
ROOFTOP PLAN**

DRAWING NUMBER:

**A-1.1**



**EXISTING ENLARGED ROOFTOP PLAN**  
22x34 SCALE: 1/4" = 1'  
11x17 SCALE: 1/8" = 1'

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

PROJECT INFORMATION:

**KIRKLAND/LIVENGOOD  
SE02100T**

121 THIRD AVENUE  
KIRKLAND, WA 98083

ISSUED FOR:

**BUILDING PERMIT**

REVISION HISTORY:

NO.	DATE:	DESCRIPTION:	CHK. BY:
6	11/20/2020	MINOR REV	BJT
5	11/19/2020	REVISED PER REDLINES	BJT
4	10/19/2020	MINOR REV	BJT
3	10/6/2020	STRUCTURAL NOTE ADDED	BJT
2	9/25/2020	REVISED PER REDLINES	BJT
1	9/18/2020	ISSUED DESIGN REVIEW	BJT

PLANS PREPARED BY:

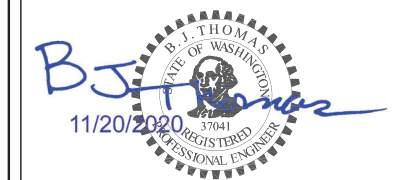
**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

DRAWN BY: CHK. BY:

JL

BJ

LICENSURE:



DRAWING INFORMATION:

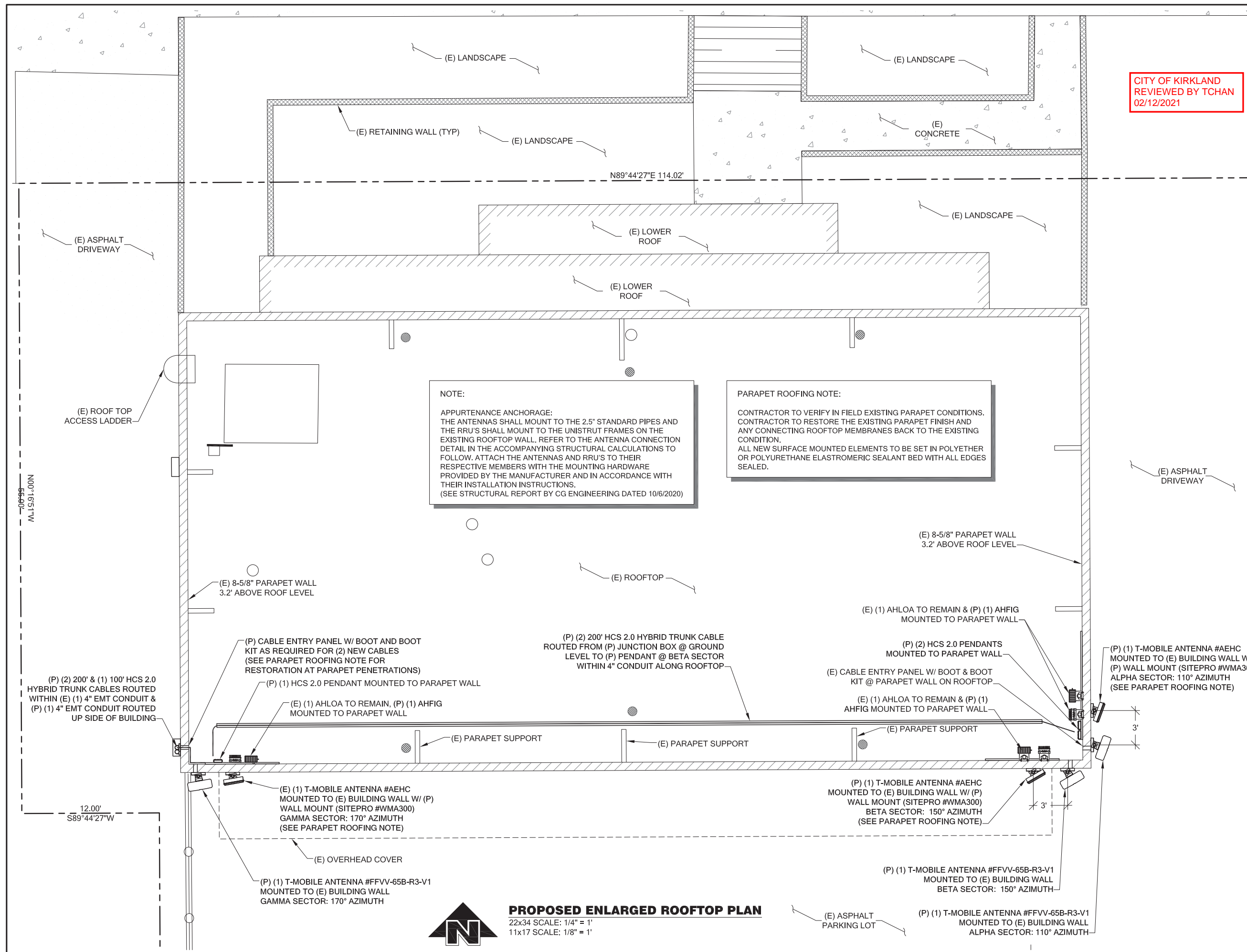
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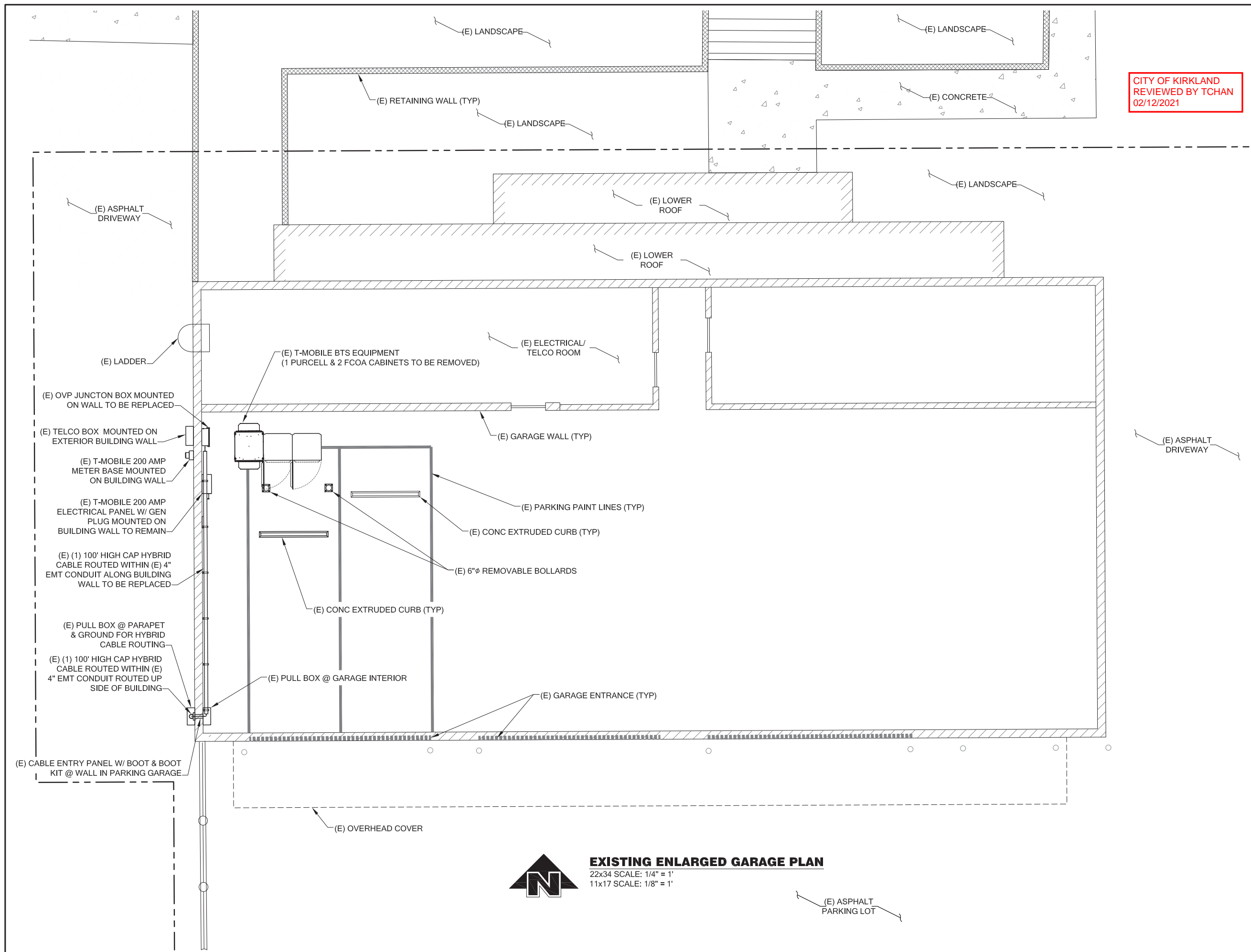
DRAWING TITLE:

**PROPOSED  
ENLARGED  
ROOFTOP PLAN**

DRAWING NUMBER:

**A-1.2**





CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021



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SE02100T**

121 THIRD AVENUE  
KIRKLAND, WA 98083

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PLANS PREPARED BY:

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206-851-1106

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DRAWING TITLE:

**EXISTING  
ENLARGED  
GARAGE PLAN**

DRAWING NUMBER:

**A-1.3**



**EXISTING ENLARGED GARAGE PLAN**

22x34 SCALE: 1/4" = 1'  
11x17 SCALE: 1/8" = 1'

(E) ASPHALT  
PARKING LOT

CITY OF KIRKLAND  
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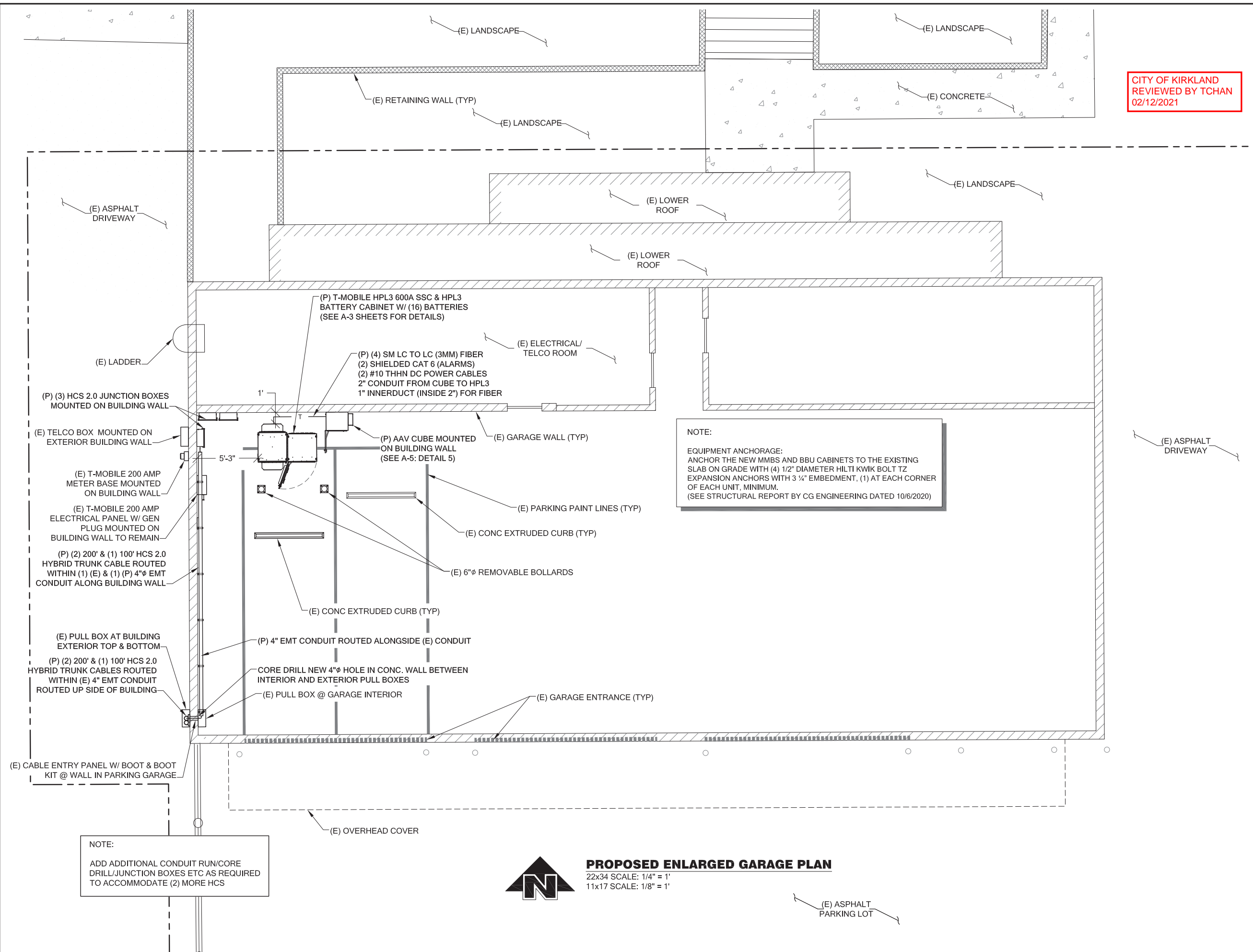
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DRAWING TITLE:

**PROPOSED  
ENLARGED  
GARAGE PLAN**

DRAWING NUMBER:

**A-1.4**



NOTE:  
EQUIPMENT ANCHORAGE:  
ANCHOR THE NEW MMBS AND BBU CABINETS TO THE EXISTING SLAB ON GRADE WITH (4) 1/2" DIAMETER HILTI KWIK BOLT TZ EXPANSION ANCHORS WITH 3 1/4" EMBEDMENT, (1) AT EACH CORNER OF EACH UNIT, MINIMUM.  
(SEE STRUCTURAL REPORT BY CG ENGINEERING DATED 10/6/2020)

NOTE:  
ADD ADDITIONAL CONDUIT RUN/CORE DRILL/JUNCTION BOXES ETC AS REQUIRED TO ACCOMMODATE (2) MORE HCS



**PROPOSED ENLARGED GARAGE PLAN**  
22x34 SCALE: 1/4" = 1'  
11x17 SCALE: 1/8" = 1'

CITY OF KIRKLAND  
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**PROJECT INFORMATION:**

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**LICENSURE:**



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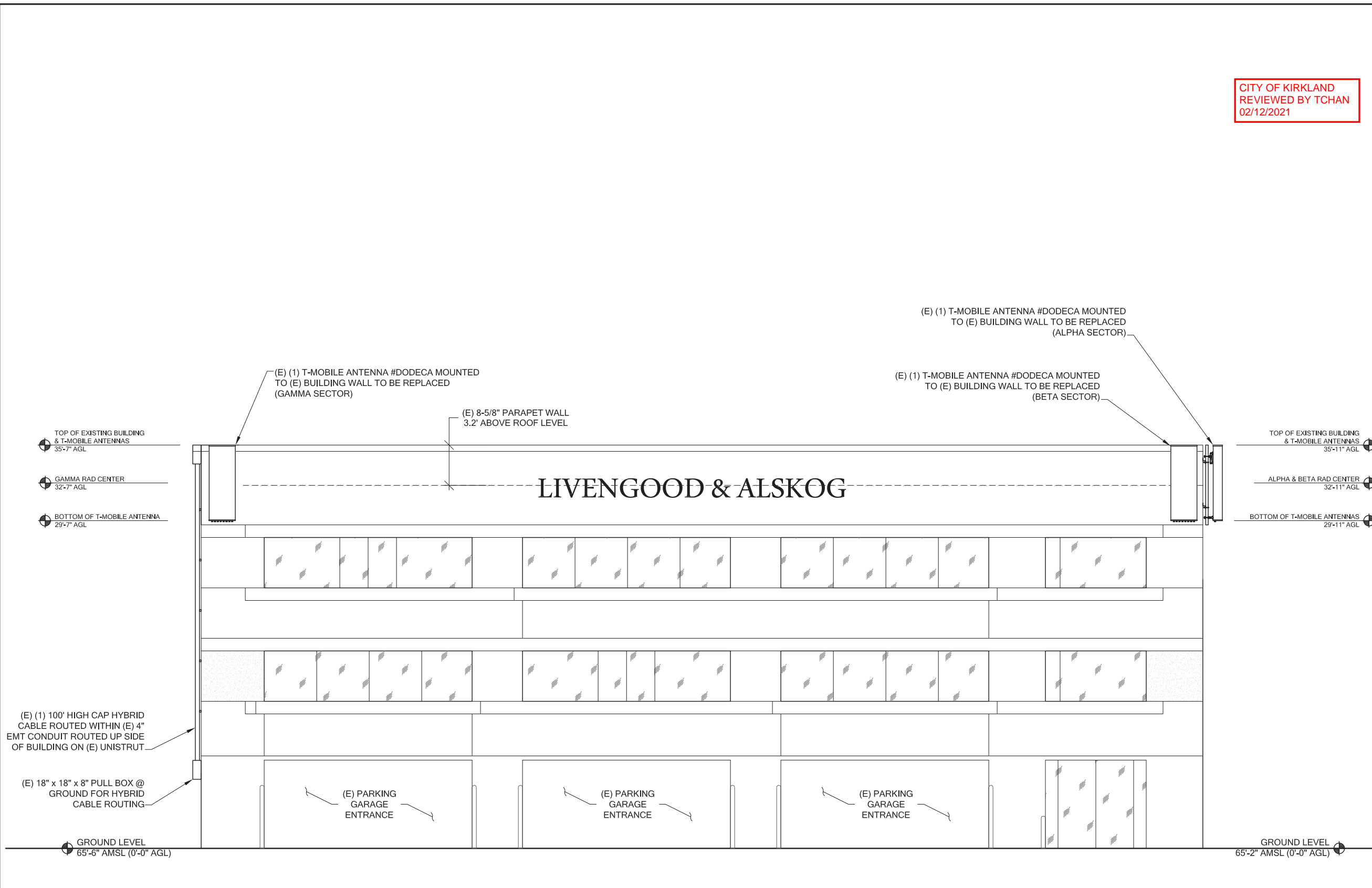
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**DRAWING TITLE:**

**EXISTING SITE  
ELEVATION**

**DRAWING NUMBER:**

**A-2**



**1** **EXISTING SOUTH ELEVATION**  
A-2 SCALE: NTS





PROJECT INFORMATION:

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SE02100T**

**121 THIRD AVENUE  
KIRKLAND, WA 98083**

ISSUED FOR:

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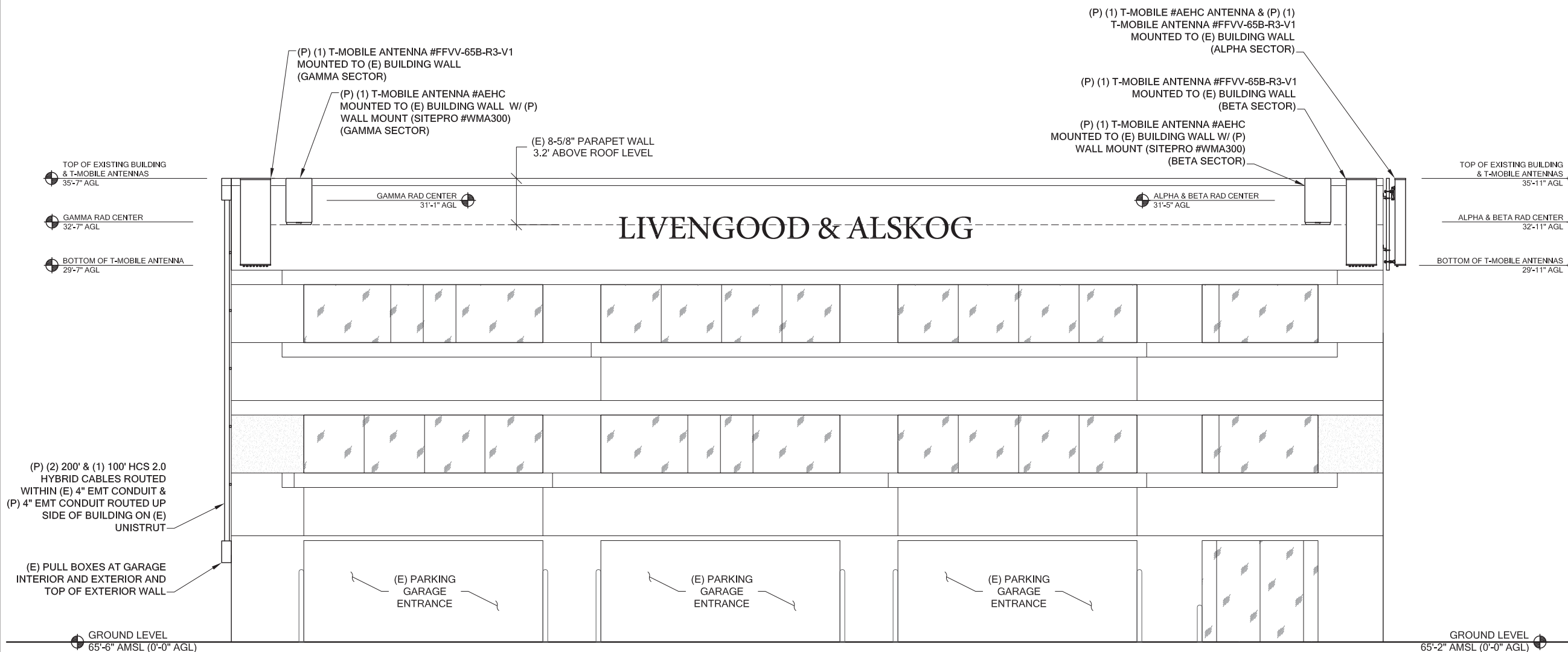
**PROPOSED SITE  
ELEVATION**

DRAWING NUMBER:

**A-2.1**

PAINT NOTE:  
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PAINT PROPOSED ANTENNAS TO MATCH EXISTING BUILDING & METAL CAP ON TOP OF BUILDING.

CITY OF KIRKLAND  
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02/12/2021



**1** PROPOSED SOUTH ELEVATION  
A-2.1 SCALE: NTS

CITY OF KIRKLAND  
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**PROJECT INFORMATION:**

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SE02100T**  
  
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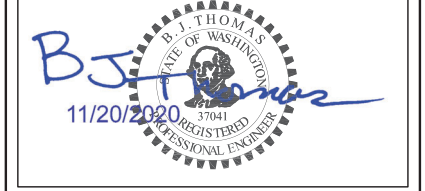
**PLANS PREPARED BY:**

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MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY:                      CHK. BY:**

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**LICENSURE:**



**DRAWING INFORMATION:**

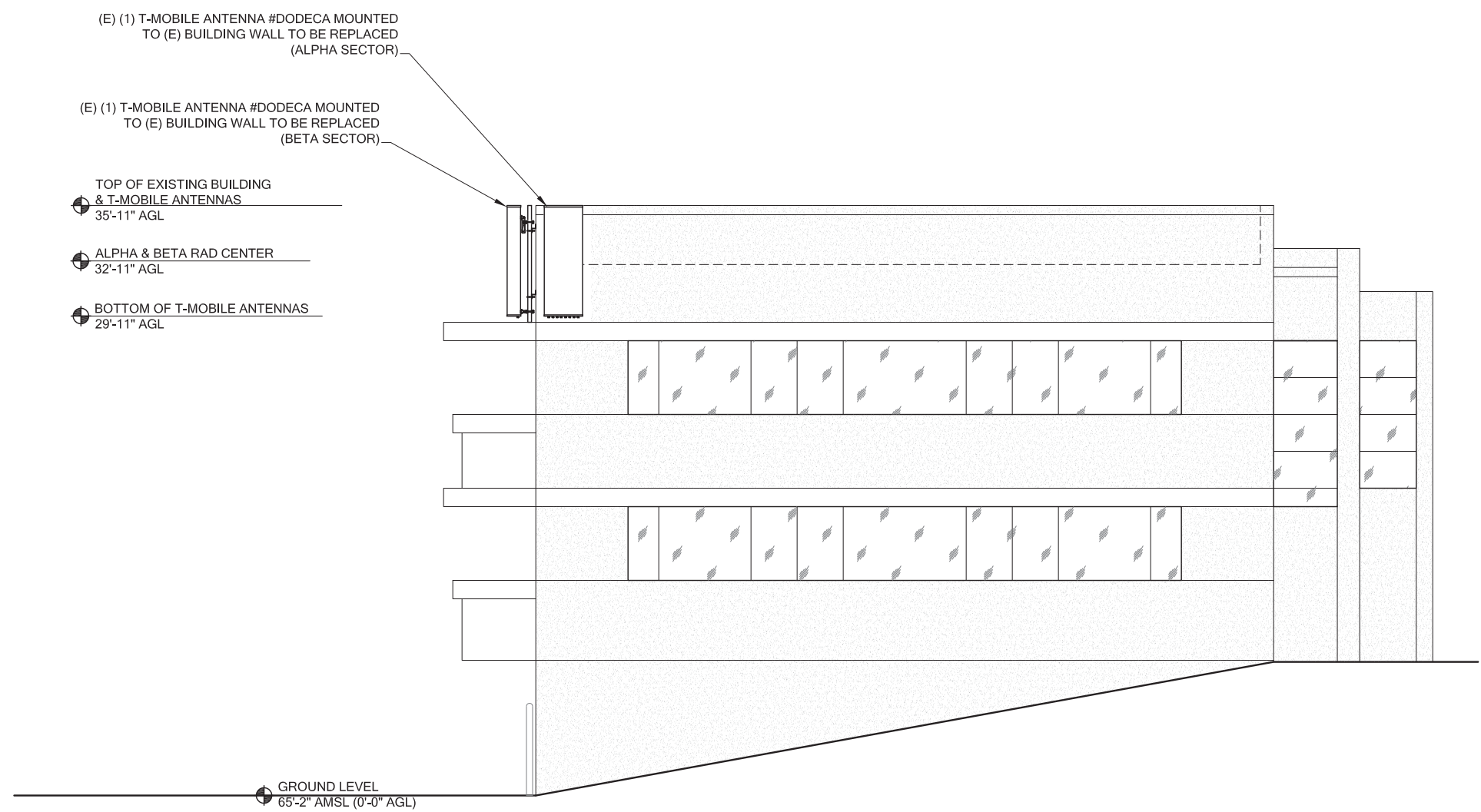
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**DRAWING TITLE:**

**EXISTING SITE  
ELEVATION**

**DRAWING NUMBER:**

**A-2.2**



**1** **EXISTING EAST ELEVATION**  
A-2.2 SCALE: NTS



CITY OF KIRKLAND  
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SE02100T**

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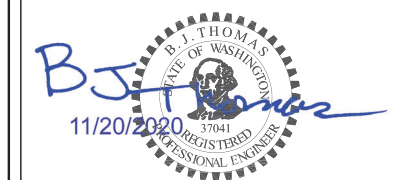
**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
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206-851-1106

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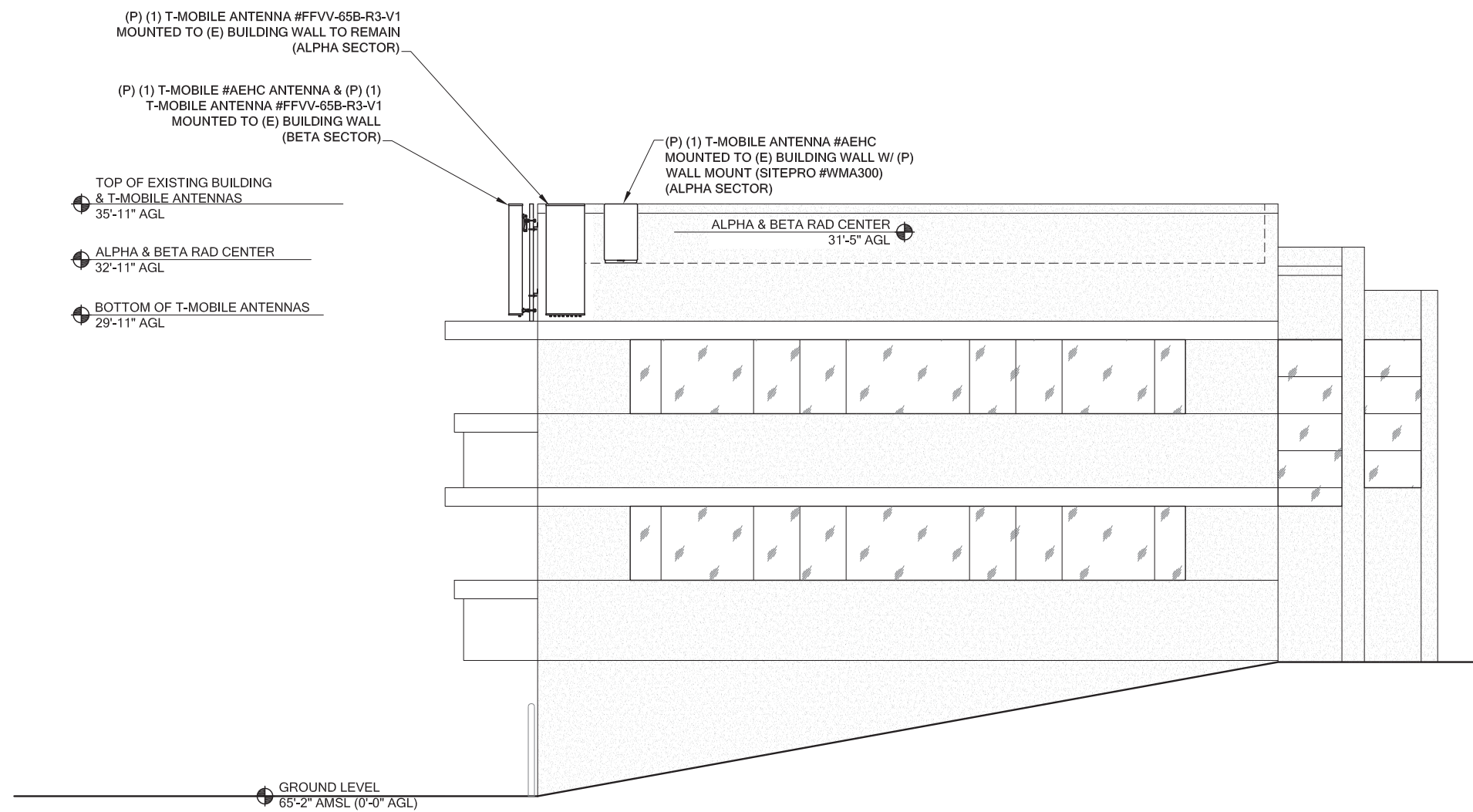
DRAWING TITLE:

**PROPOSED SITE  
ELEVATION**

DRAWING NUMBER:

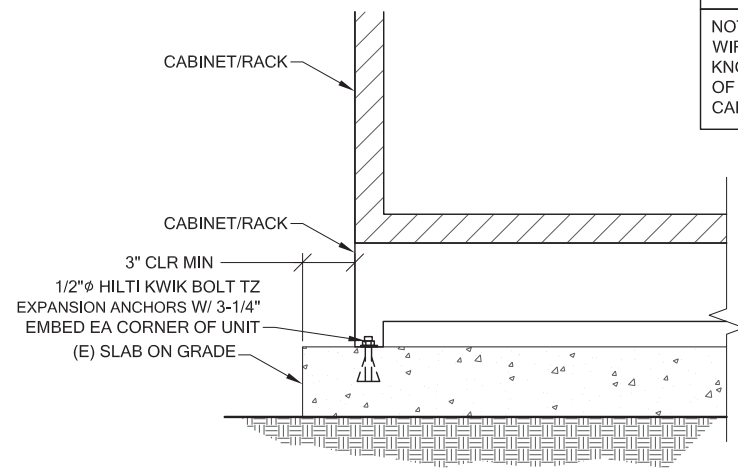
**A-2.3**

PAINT NOTE:  
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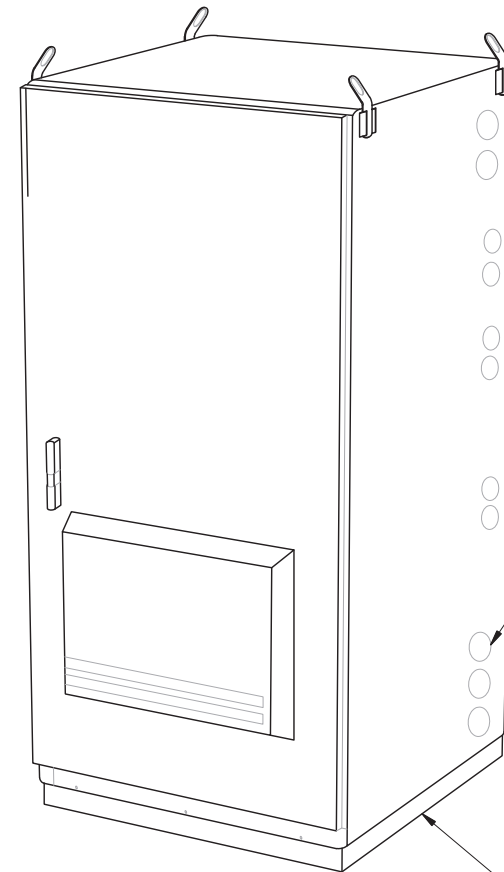
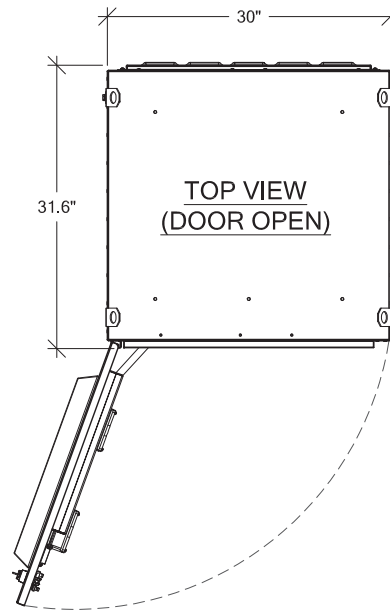


**1 PROPOSED EAST ELEVATION**  
A-2.3 SCALE: NTS

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.  
 NOTE:  
 WIRES RUN THROUGH PROVIDED KNOCKOUT FOLLOW PROPER INSTALLATION OF GASKET BEFORE MATING THE 2 CABINETS.



1  
 A-3 **CABINET ANCHORAGE DETAIL**  
 SCALE: NTS



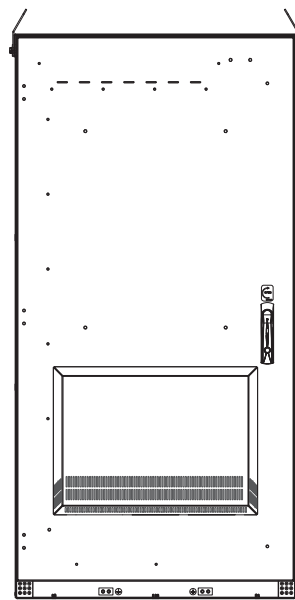
CITY OF KIRKLAND  
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SHIPPING HOOKS TO BE REMOVED AFTER CABINET INSTALL

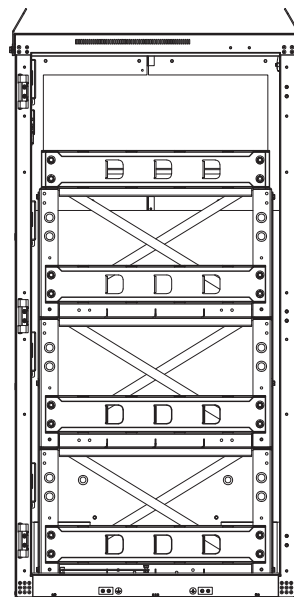
CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL KNOCKOUTS THROUGH

SKU# 34038 PURCELL 2" PLINTH (OPTIONAL)

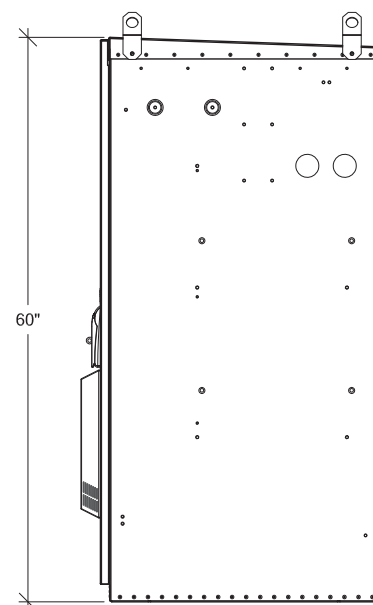
BATTERY INFORMATION:  
 MAXIMUM OF (4) STRINGS OF (4) POWERSAFE #SBS 190F IN BATTERY CABINET  
 TOTAL ELECTROLYTE = (16) BATTERIES x 2.34 GAL PER BATTERY = 37.44 GAL



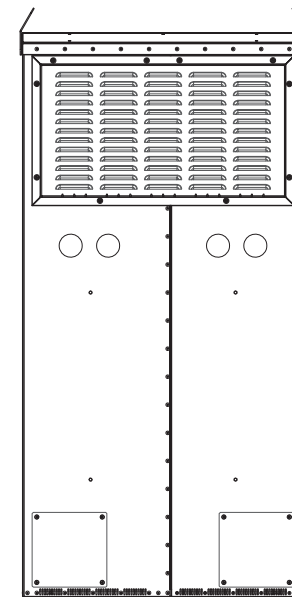
FRONT  
 (DAC DOOR)



FRONT  
 (DOOR REMOVED)



RIGHT VIEW  
 (DAC DOOR)



REAR VIEW

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

T-Mobile

PROJECT INFORMATION:

KIRKLAND/LIVENGOOD  
 SE02100T

121 THIRD AVENUE  
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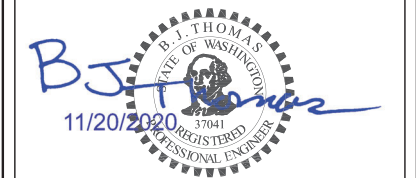
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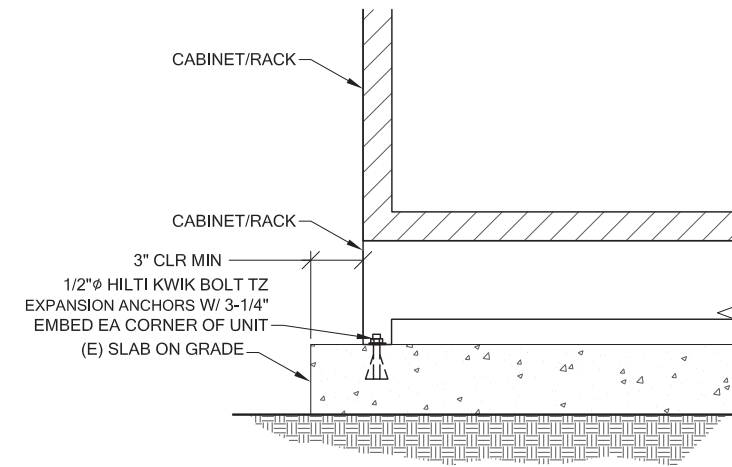
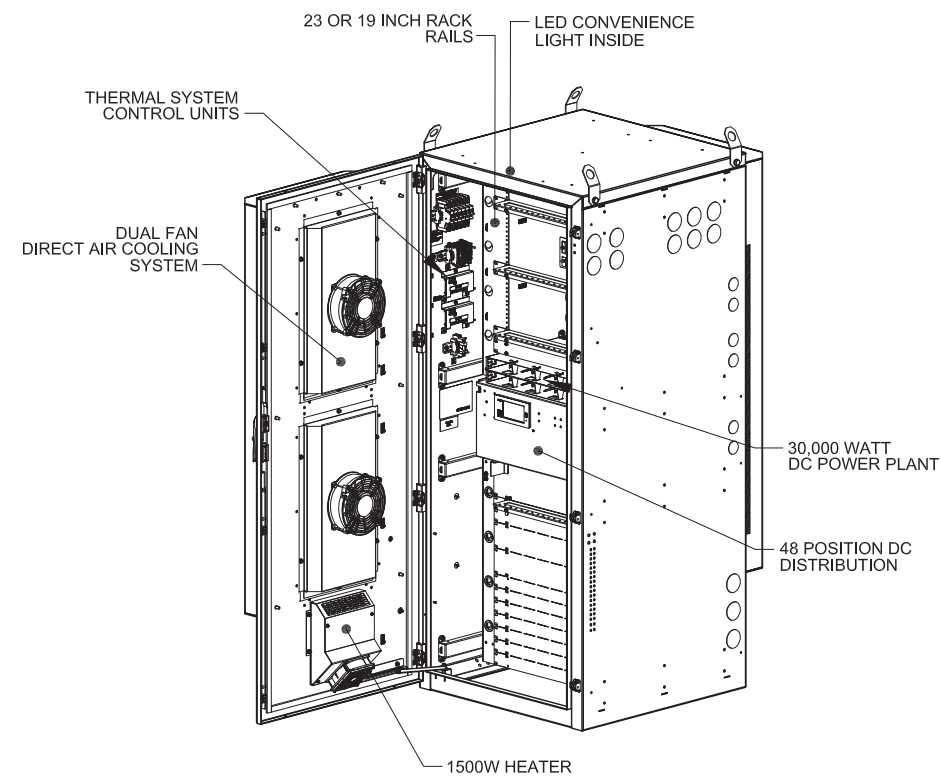
**BTS EQUIPMENT  
 DETAILS**

DRAWING NUMBER:

**A-3**

CITY OF KIRKLAND  
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PURCELL "HPL3" 600A LARGE SITE SUPPORT CABINET SPECS:		
MANUFACTURER: PURCELL		
HEIGHT: 72"	DEPTH: 48"	WIDTH: 30"
CABINET WEIGHT: 430LBS		
NOTE: ADDITIONAL KNOCKOUTS MAY BE REQUIRED AND CAN BE DRILLED ON SITE AS NECESSARY. FOR CABINETS STARTING AT 501 THERE WILL BE A TOTAL OF (8) KNOCKOUTS (2) HORIZONTAL ROWS OF (4)		



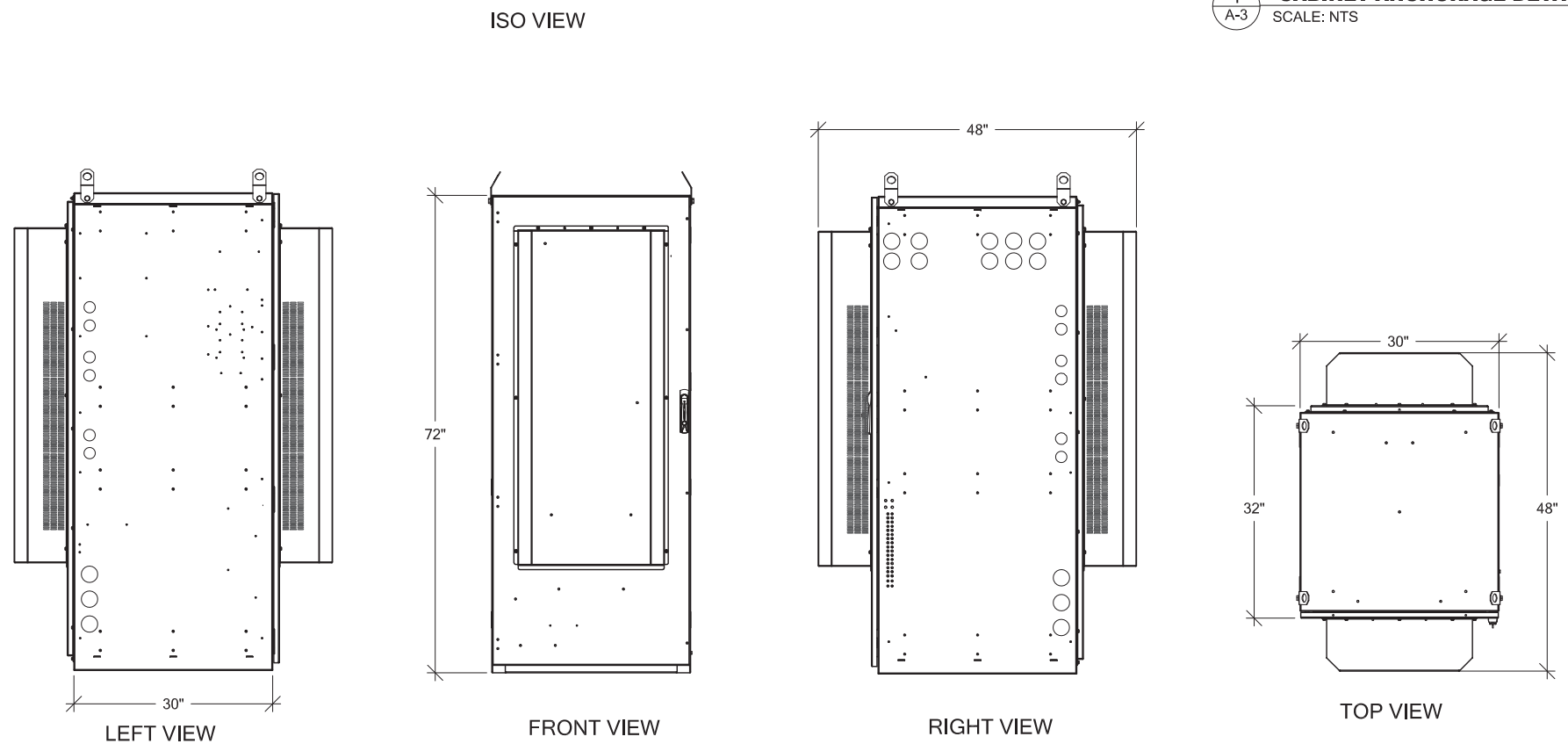
1 CABINET ANCHORAGE DETAIL  
SCALE: NTS

DC CABLES TO BE ROUTED ON LEFT SIDE OF CABINET

FIBER CABLES TO BE ROUTED ON RIGHT SIDE OF CABINET

RU	Purcell HPL3 Rack Assignment	Comments
1	Future Equipment	Future equipment
2		Fiber max 2
3		Fiber max 2
4	Airscale # 3	Airscale # 3
5		Fiber max 1
6		Fiber max 2
7		Fiber max 1
8		Fiber max 2
9	Airscale # 2	Airscale # 2
10		Fiber max 1
11		Fiber max 2
12	Airscale # 1	Airscale # 1
13		Fiber max 1
14		Fiber max 2
15	Rectifier Shelf	Rectifier Shelf
	Breaker Shelf	Breaker Shelf
1	Booster # 1	Booster # 1
2	Booster # 2	Booster # 2
3	AAV NID	AAV NID
4		CSR / SAS / IXR e
5		
6		
7	Place holder for future module/equipment	Future Equipment
8		
9		
10		Legacy BB # 2
11		
12		Legacy BB # 1
13		
14		
15		FSEE on FMAB
16		

INTERNAL ROUTING



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

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

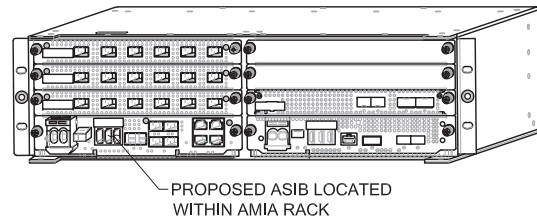
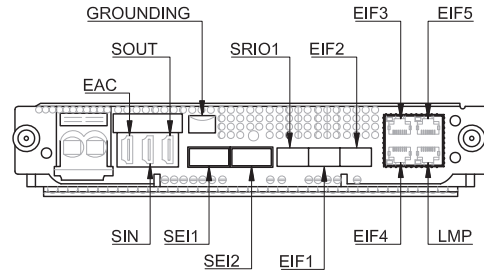
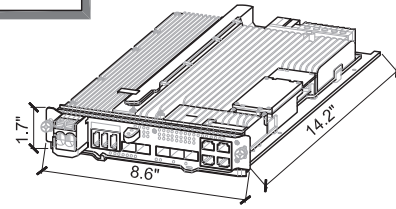
LICENSURE:

DRAWING INFORMATION:  
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DRAWING TITLE:  
**BTS EQUIPMENT DETAILS**

DRAWING NUMBER:  
**A-3.1**

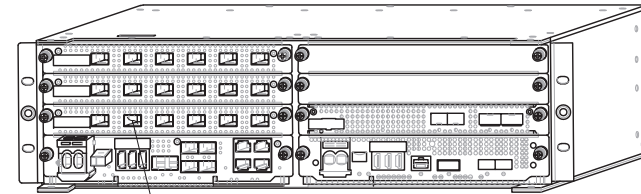
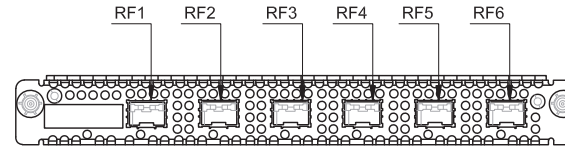
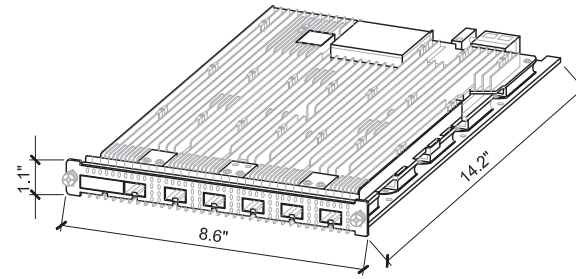
MANUFACTURER: NOKIA  
 MODEL: ASIB  
 DIMENSION (HxWxD) 1.7" x 8.6" x 14.2"  
 WEIGHT: 6.4 LBS



PROPOSED ASIB LOCATED WITHIN AMIA RACK

1 ASIB DETAIL  
 A-4 SCALE: NTS

MANUFACTURER: NOKIA  
 MODEL: ABIA  
 DIMENSION (HxWxD) 1.1" x 8.6" x 14.2"  
 WEIGHT: 4.6 LBS



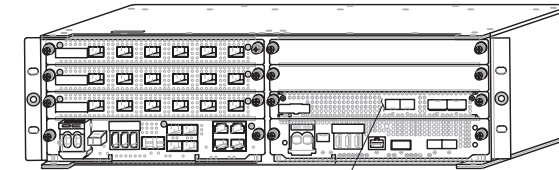
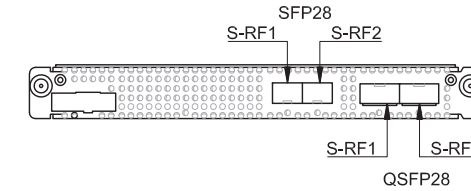
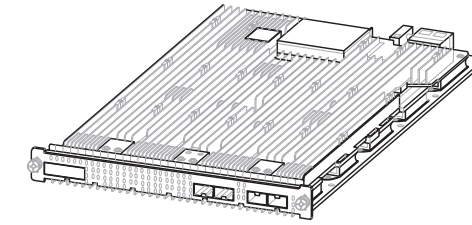
PROPOSED ABIA LOCATED WITHIN AMIA RACK

2 ABIA DETAIL  
 A-4 SCALE: NTS

**FOR REFERENCE ONLY**

MANUFACTURER: NOKIA  
 MODEL: ABIL  
 DIMENSION (HxWxD) 1.1" x 8.6" x 14.2"  
 WEIGHT: 4.4 LBS

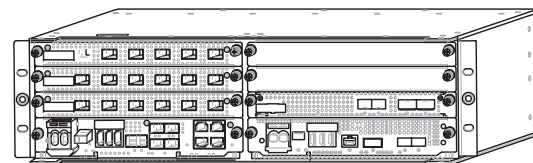
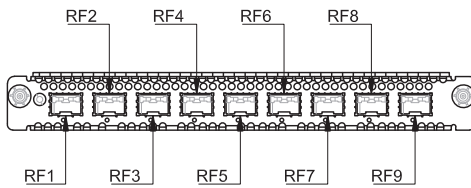
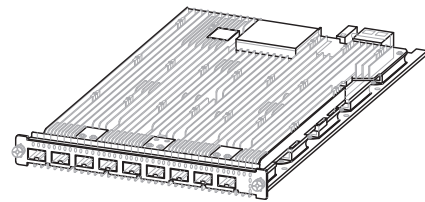
CITY OF KIRKLAND  
 REVIEWED BY TCHAN  
 02/12/2021



PROPOSED ABIL LOCATED WITHIN AMIA RACK

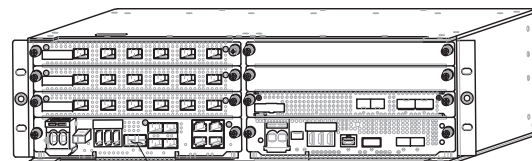
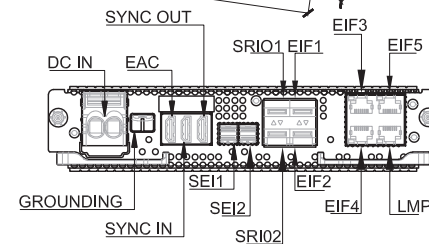
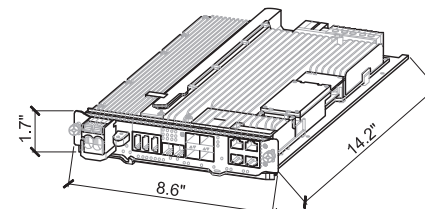
3 ABIL DETAIL  
 A-4 SCALE: NTS

MANUFACTURER: NOKIA  
 MODEL: ABIC  
 DIMENSION (HxWxD) 1.7" x 8.6" x 14.2"  
 WEIGHT: 5.8 LBS



4 ABIC DETAIL  
 A-4 SCALE: NTS

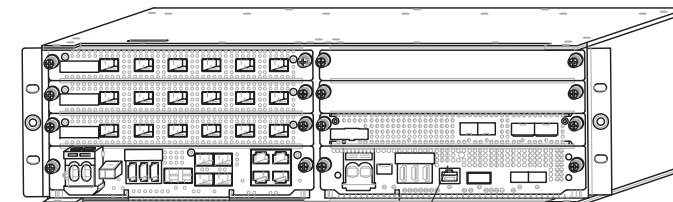
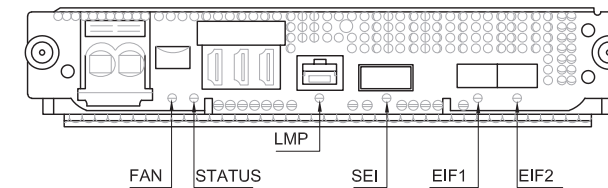
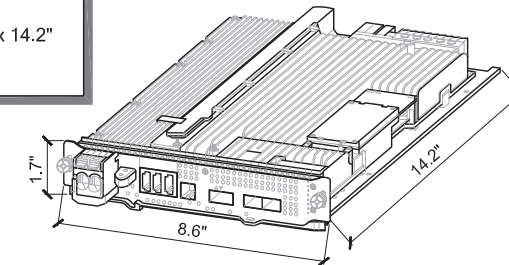
MANUFACTURER: NOKIA  
 MODEL: ASIA  
 DIMENSION (HxWxD) 1.7" x 8.6" x 14.2"  
 WEIGHT: 6.8 LBS



PROPOSED ASIA LOCATED WITHIN AMIA RACK

5 ASIA DETAIL  
 A-4 SCALE: NTS

MANUFACTURER: NOKIA  
 MODEL: ASIK  
 DIMENSION (HxWxD) 1.7" x 8.6" x 14.2"  
 WEIGHT: 6.6 LBS



PROPOSED ASIK LOCATED WITHIN AMIA RACK

6 ASIK DETAIL  
 A-4 SCALE: NTS

T-Mobile

PROJECT INFORMATION:

**KIRKLAND/LIVENGOOD  
 SE02100T**

121 THIRD AVENUE  
 KIRKLAND, WA 98083

ISSUED FOR:

**BUILDING PERMIT**

REVISION HISTORY:

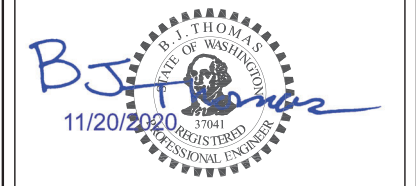
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5	11/19/2020	REVISED PER REDLINES	BJT
4	10/19/2020	MINOR REV	BJT
3	10/6/2020	STRUCTURAL NOTE ADDED	BJT
2	9/25/2020	REVISED PER REDLINES	BJT
1	9/18/2020	ISSUED DESIGN REVIEW	BJT

PLANS PREPARED BY:

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

DRAWN BY: JL      CHK. BY: BJ

LICENSURE:



DRAWING INFORMATION:

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DRAWING TITLE:

**GENERAL DETAILS**

DRAWING NUMBER:

**A-4**

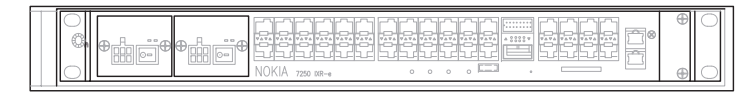
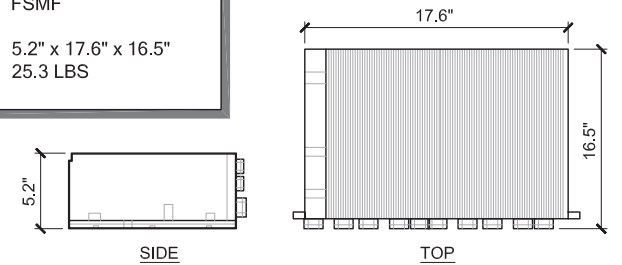
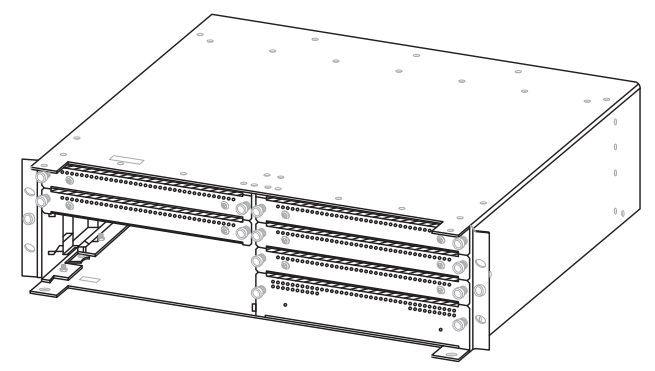
CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

MANUFACTURER: NOKIA  
MODEL: AMIA  
DIMENSION (HxWxD): 5.1" x 15.7" x 17.6"  
WEIGHT: 11.2 LBS (UNIT ONLY)

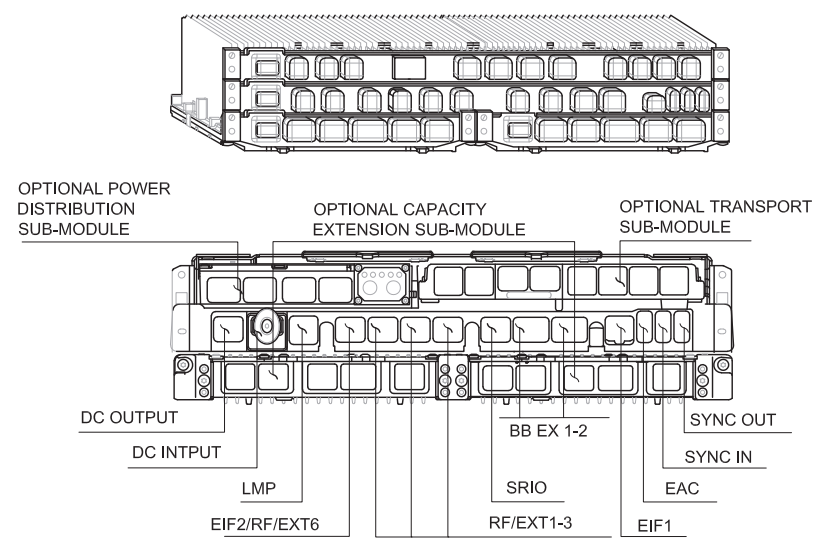
MANUFACTURER: NOKIA  
MODEL: FSMF  
DIMENSION (HxWxD): 5.2" x 17.6" x 16.5"  
WEIGHT: 25.3 LBS

NOTE:  
FSMF SHALL BE PLACED  
WITHIN RADIO CABINET PER  
T-MOBILE REQUIREMENTS

MANUFACTURER: NOKIA  
MODEL: IXR-e  
DIMENSION (HxWxD): 17.25" x 10.0" x 1.75"  
WEIGHT: TBD



1 AMIA DETAIL  
A-5 SCALE: NTS

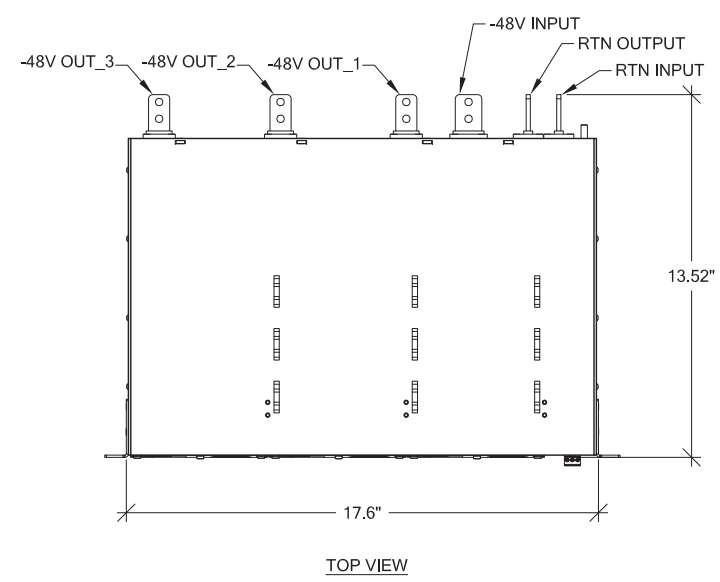


2 FSMF DETAIL  
A-5 SCALE: NTS

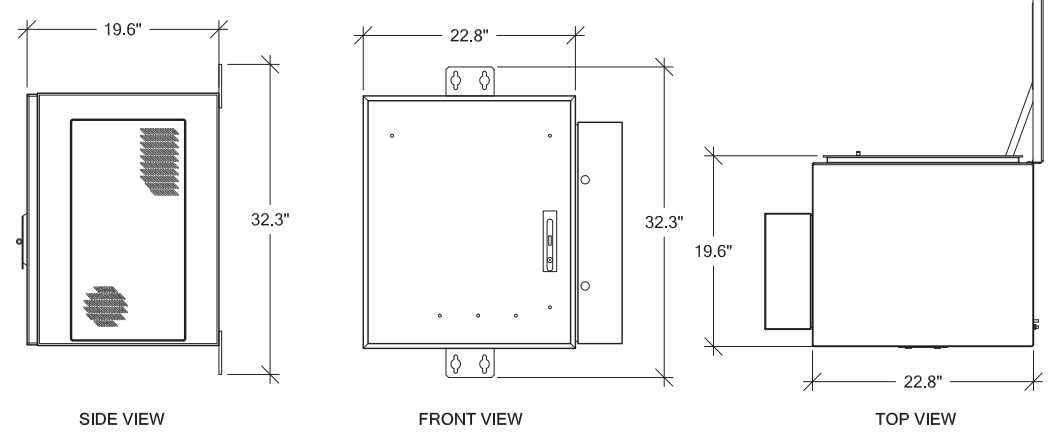
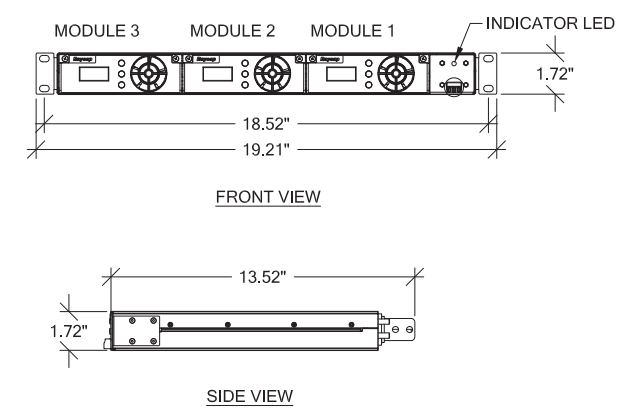
3 IXR-e DETAIL  
A-5 SCALE: NTS

POWER PLUS 100-3-1U

TOTAL POWER: 19.5 kW  
MAX OUTPUT CURRENT: 300 A  
MAX INPUT CURRENT: 100 A  
DIMENSION (MODULE) (HxWxD): 1.61" x 5.12" x 6.85"  
WEIGHT (MODULE): 2.14lbs  
NET WEIGHT (RACK): 11.24lbs



4 VOLTAGE BOOSTER DETAIL  
A-5 SCALE: NTS



5 AAV ROUTER "CUBE" DETAIL  
A-5 SCALE: NTS

FOR REFERENCE ONLY

PROJECT INFORMATION:

**KIRKLAND/LIVENGOOD  
SE02100T**

121 THIRD AVENUE  
KIRKLAND, WA 98083

ISSUED FOR:

**BUILDING PERMIT**

REVISION HISTORY:

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1	9/18/2020	ISSUED DESIGN REVIEW	BJT

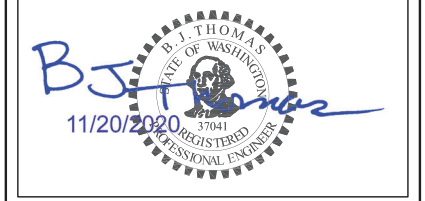
PLANS PREPARED BY:

**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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DRAWING TITLE:

**GENERAL DETAILS**

DRAWING NUMBER:

**A-5**

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SE02100T**

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KIRKLAND, WA 98083

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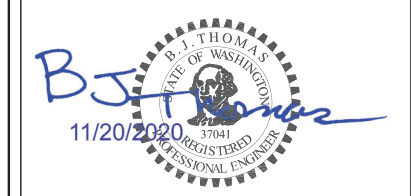
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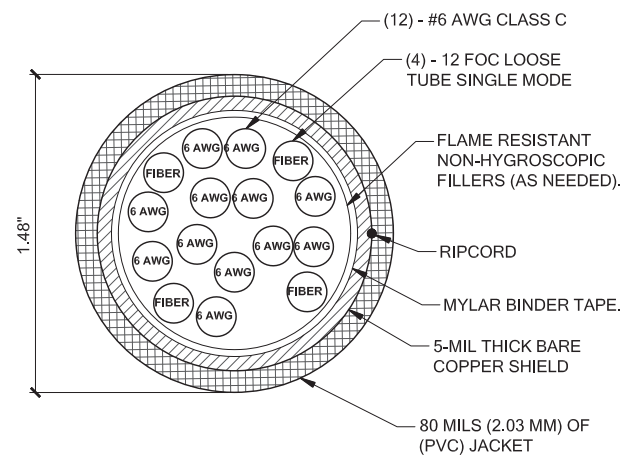
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**GENERAL DETAILS**

DRAWING NUMBER:

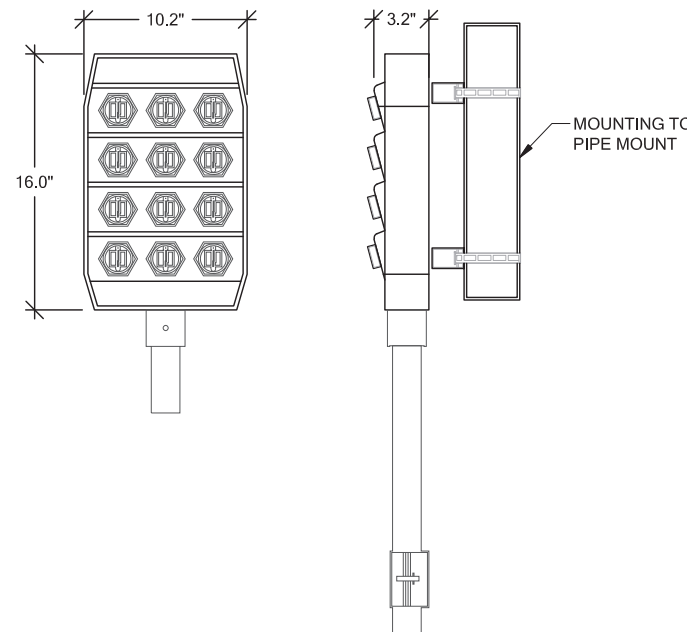
**A-6**

HYBRID CABLE		
STRUCTURE	# OF CABLES	LENGTH
ROOFTOP	1	75'
ROOFTOP	1	130'



**1 HYBRID TRUNK CABLE DETAIL**  
SCALE: NTS

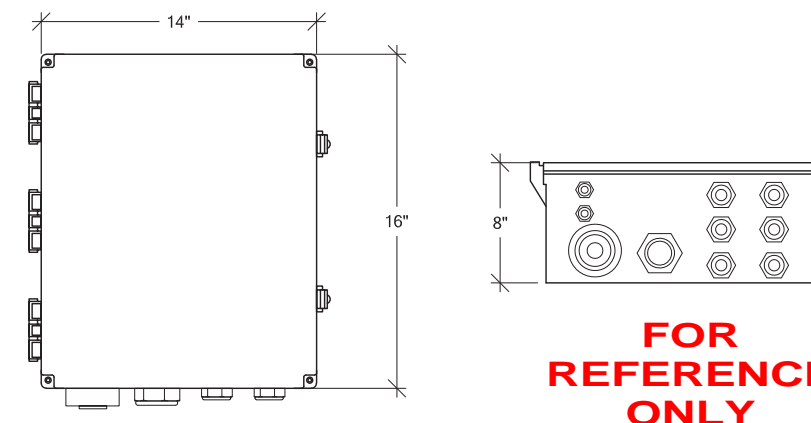
MANUFACTURER:	NWS
MODEL:	TBD
DIMENSION (HxWxD)	10.2" x 16.0" x 3.2"
WEIGHT:	8.76LBS
MOUNTING KIT:	PROVIDED



**2 HCS 2.0 PENDANT DETAIL**  
SCALE: NTS

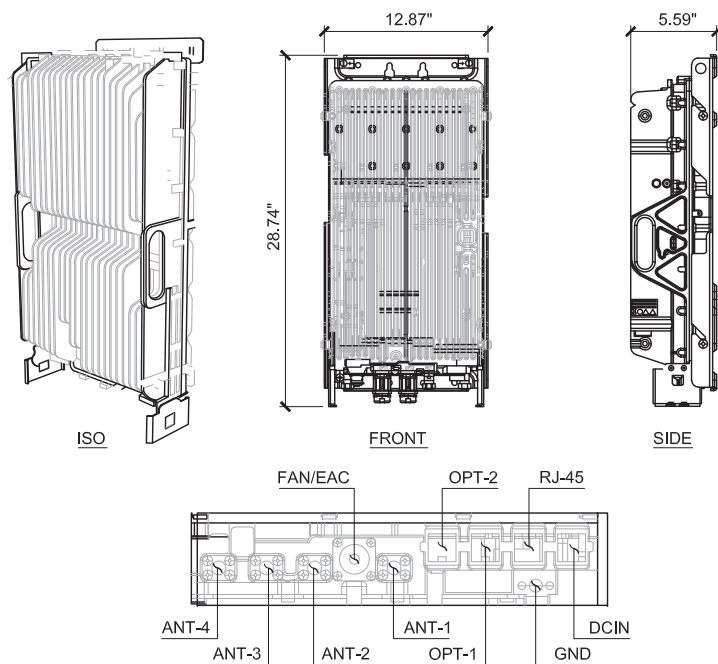
FIBER & POWER JUNCTION BOX W/ OVP	
MANUFACTURER:	RAYCAP
MODEL:	TBD
DIMENSION (HxWxD)	16" x 14" x 8"
WEIGHT:	21.9lbs

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021



**3 OVP/JUNCTION BOX DETAIL**  
SCALE: NTS

MANUFACTURER:	NOKIA
MODEL:	AHFIG
WEIGHT:	70.5 LBS
DIMENSION (LxWxD) w/ COVER	28.74" x 12.87" x 5.59"



**4 AHFIG DETAIL**  
SCALE: NTS

General Specifications

	HFT410-4SNOK2-xx	HFT410-4SNOK3-xx (for FASB)
Brand	HELIX® FiberFeed®	HELIX® FiberFeed®
Total Fiber Quantity	4	4
Fiber Type	Bend insensitive single mode fiber (G.657.A2)	Bend insensitive single mode fiber (G.657.A2)
Jacket Color	Black	Black
<b>Dimensions</b>		
Cable Weight	456.1 kg/km   306.5 lb/klf	456.1 kg/km   306.5 lb/klf
Breakout Length Fiber, end 1	815 mm   32 in	1560 mm   61 in
Breakout Length Power, end 1	895 mm   35 in	457 mm   18 in
Breakout Length Fiber, end 2	600 mm   24 in	600 mm   24 in
Diameter Over Jacket	1831 mm   0.72 in	1831 mm   0.72 in
<b>Physical Specifications</b>		
Minimum Bend Radius, loaded	365.8 mm   14.4 in	365.8 mm   14.4 in
Minimum Bend Radius, unloaded	221.0 mm   8.7 in	221.0 mm   8.7 in
Tensile Load, long term, maximum	801 N   180 lbf	801 N   180 lbf
Tensile Load, short term, maximum	2669 N   600 lbf	2669 N   600 lbf

HELIX FiberFeed Hybrid Jumpers

Fiberfeed hybrid jumpers are constructed specifically for the conditions of the last few feet to the RRU.

Features

- Smallest cable diameter for high flexibility
- Corrugated aluminum shield resists bird/animal damage
- Exact fit to Pendant and RRU

Specifications

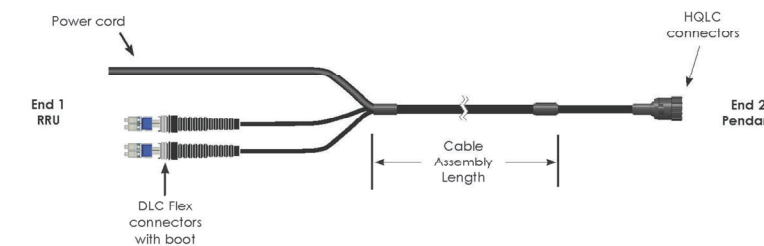
Cable Series	# of Power Conductors	# of Fibers	End 1 Power Breakout (inches)	End 1 Fiber Breakout (inches)	End 2 Fiber Breakout (inches)
<b>Hybrid Jumpers</b>					
10 AWG power conductor wire					
4 Single mode fibers					
HFT410-4SNOK2	4	4	35	32	24
HFT410-4SNOK3	4	4	18	61	24

Hybrid Jumpers for Nokia Radios

Ordering Information

Description	Length (feet)	Part Number
<b>Hybrid Jumpers for Nokia Radios</b>		
End 1: 4 fibers terminated DLC for Nokia RRU's with flush cut power cord (red/black conductor).	6	HFT410-4SNOK2-6
End 2: 4 fibers terminated LC and 4 X 10 AWG conductor terminated at hybrid trunk connector (HQLC)	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.



**5 HCS 2.0 HYBRID JUMPER DETAIL**  
SCALE: NTS





PROJECT INFORMATION:

**KIRKLAND/LIVENGOOD  
SE02100T**

121 THIRD AVENUE  
KIRKLAND, WA 98083

ISSUED FOR:

**BUILDING PERMIT**

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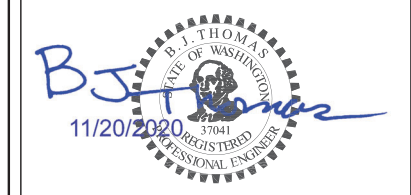
PLANS PREPARED BY:

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206-851-1106

DRAWN BY: CHK. BY:

JL BJ

LICENSURE:



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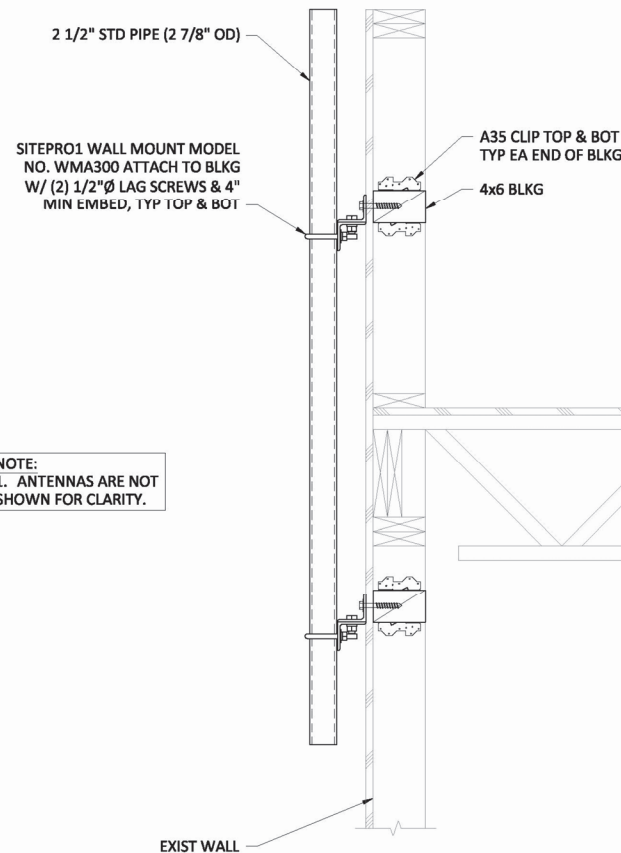
**ANTENNA MOUNT  
DETAILS**

DRAWING NUMBER:

**A-7**

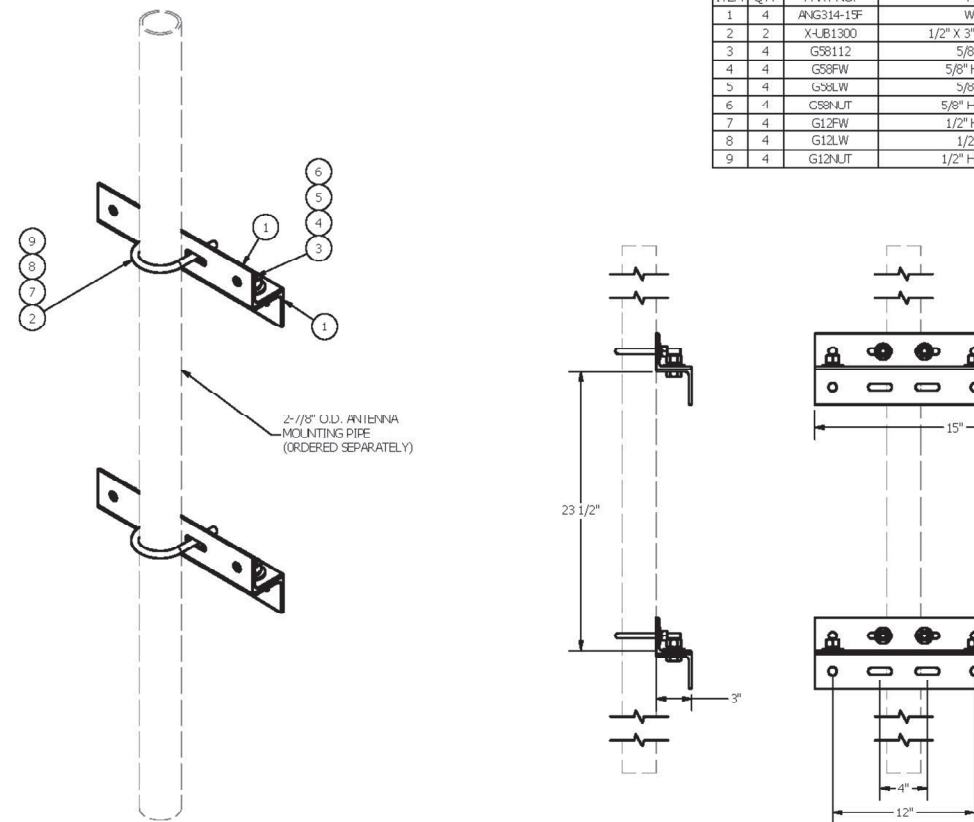
PARAPET ROOFING NOTE:

CONTRACTOR TO VERIFY IN FIELD EXISTING PARAPET CONDITIONS. CONTRACTOR TO RESTORE THE EXISTING PARAPET FINISH AND ANY CONNECTING ROOFTOP MEMBRANES BACK TO THE EXISTING CONDITION. ALL NEW SURFACE MOUNTED ELEMENTS TO BE SET IN POLYETHER OR POLYURETHANE ELASTOMERIC SEALANT BED WITH ALL EDGES SEALED.



NOTE:  
1. ANTENNAS ARE NOT SHOWN FOR CLARITY.

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	4	ANG314-15F	WALL MOUNT ANGLE	15 in	6.21	24.84
2	2	X-LB1300	1/2" X 3" X 5" X 2" U-BOLT (HDG.)		0.70	1.39
3	4	G58112	5/8" X 1-1/2" HDG BOLT	1 1/2 in	0.25	0.99
4	4	G58FW	5/8" HDG USS FLATWASHER		0.07	0.28
5	4	G36LW	5/8" HDG LOCKWASHER		0.03	0.10
6	4	G58NUT	5/8" HDG HEAVY 2H-HEX NUT		0.13	0.52
7	4	G12FW	1/2" HDG USS FLATWASHER		0.03	0.14
8	4	G12LW	1/2" HDG LOCKWASHER		0.01	0.06
9	4	G12NUT	1/2" HDG HEAVY 2H-HEX NUT		0.07	0.29
					TOTAL WT. #	28.61



**TOLERANCE NOTE**  
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")  
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES  
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES  
BENDS ARE ± 1/2 DEGREE - ALL OTHER MACHINING (± 0.030")  
ALL OTHER ASSEMBLY (± 0.060")

**PROPRIETARY NOTE**  
THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION	3" ANGLE WALL MOUNT KIT	
DRAWN BY	CEK 1/10/2012	Location: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX Engineering: Support Teams: 1-888-753-7446 A valmont COMPANY
CPD NO.		PART NO. WMA300
DRAWING USAGE	CUSTOMER	DWG. NO. WMA300
ENG. APPROVAL	BMC 1/10/2012	1 OF 1

**3 ANTENNA CONNECTION**

SCALE: 1" = 1'-0"

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

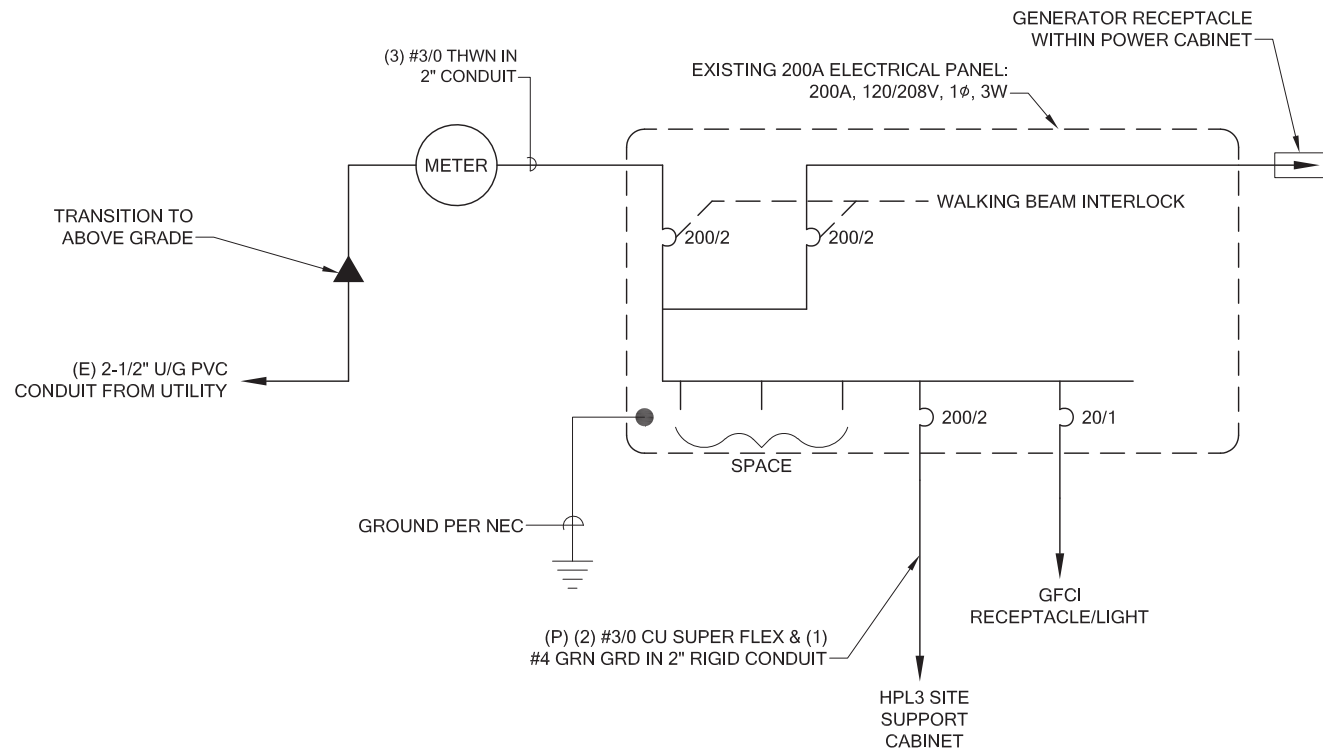
**PANEL SCHEDULE**

PANTROL  
120/208V SINGLE PHASE 200 AMP  
MAIN BREAKER W/ TVSS  
65,000 AIC RATING

CIRCUIT DESCRIPTION	KVA	A	B	KVA	CIRCUIT DESCRIPTION
HPL3 SITE SUPPORT CABINET	12	1	2	0.19	RECEPTACLE & LIGHT
" " "		3	4		
		5	6		
		7	8		
		9	10		
		11	12		
		13	14		
		15	16		
		17	18		

**LOAD CALCS:**

(8) 3 KW RECTIFIERS =	24 KVA
RECEPTACLE & LIGHT =	0.19 KVA
<b>TOTAL</b>	<b>24.19 KVA</b> <b>116 AMPS</b>



**ELECTRICAL ONE LINE**

**FOR REFERENCE ONLY**

**PROJECT INFORMATION:**

**KIRKLAND/LIVENGOOD SE02100T**  
**121 THIRD AVENUE KIRKLAND, WA 98083**

**ISSUED FOR:**

**BUILDING PERMIT**

**REVISION HISTORY:**

NO.	DATE:	DESCRIPTION:	CHK BY:
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5	11/19/2020	REVISED PER REDLINES	BJT
4	10/19/2020	MINOR REV	BJT
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1	9/18/2020	ISSUED DESIGN REVIEW	BJT

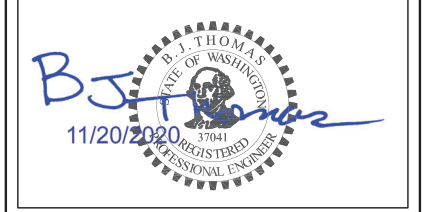
**PLANS PREPARED BY:**

**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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**DRAWING TITLE:**

**ELECTRICAL DETAILS**

**DRAWING NUMBER:**

**E-1**

PROJECT INFORMATION:

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SE02100T**  
121 THIRD AVENUE  
KIRKLAND, WA 98083

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MARYSVILLE, WA 98270  
206-851-1106

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

LICENSURE:



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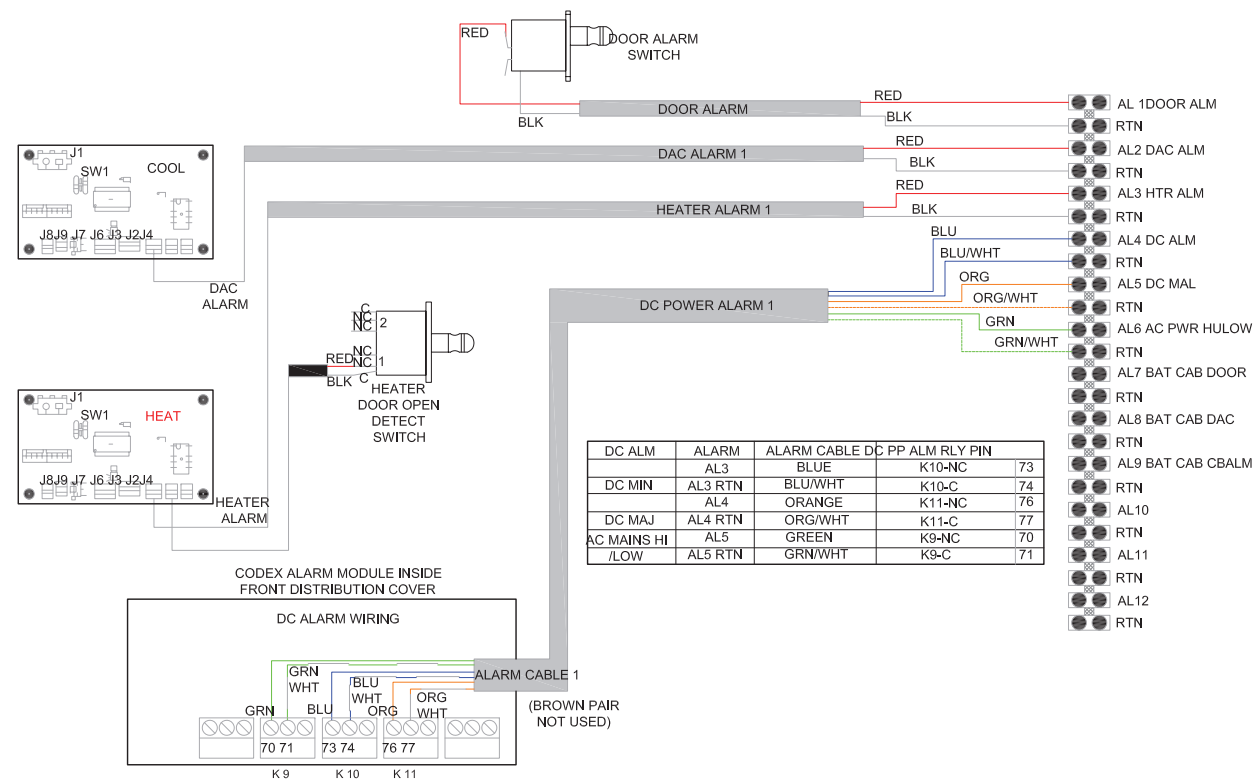
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DRAWING TITLE:

**ELECTRICAL  
DIAGRAMS**

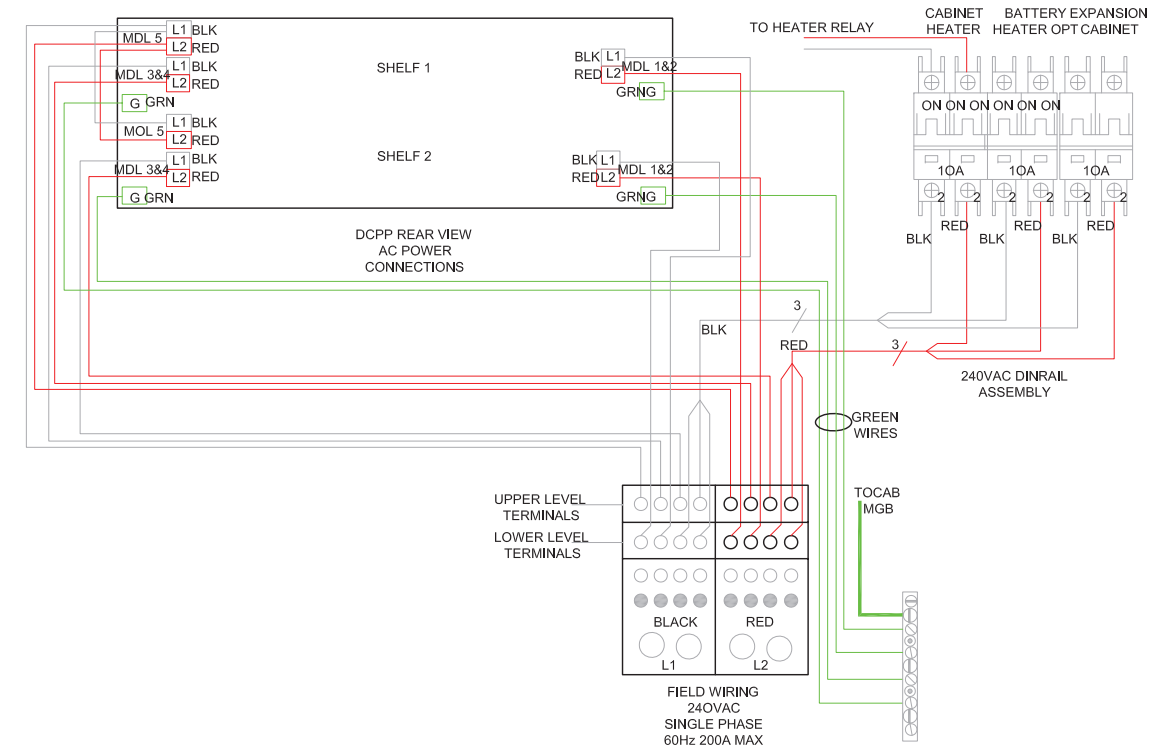
DRAWING NUMBER:

**E-1.1**

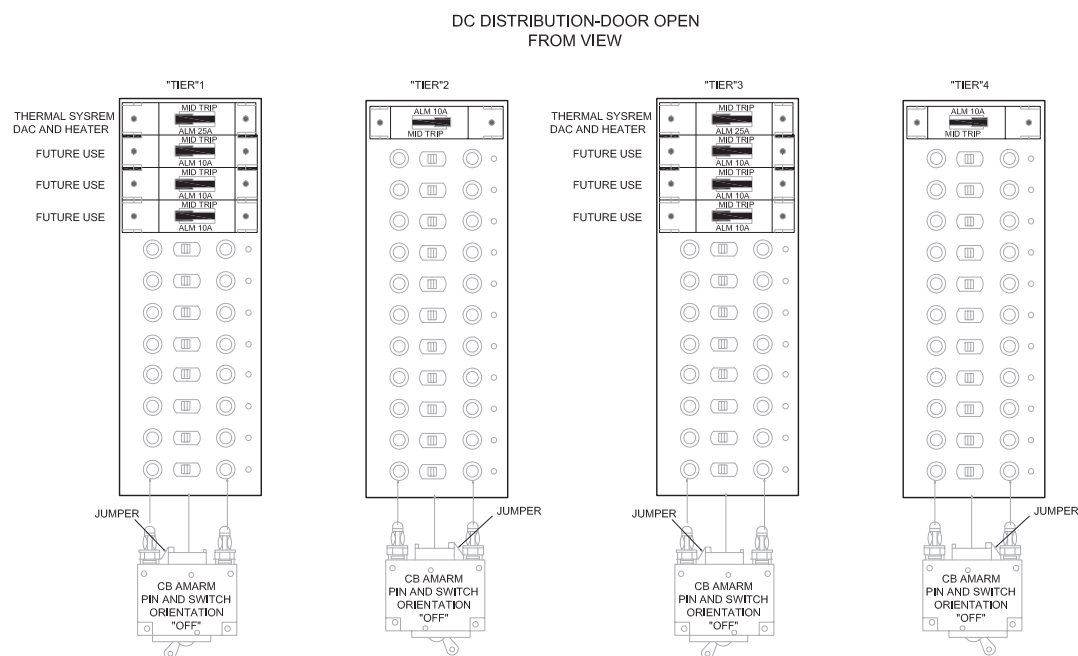


**ALARM WIRING DIAGRAM**

NOTE:  
DIAGRAMS PROVIDED ARE PER  
MANUFACTURER INSTALLATION GUIDE

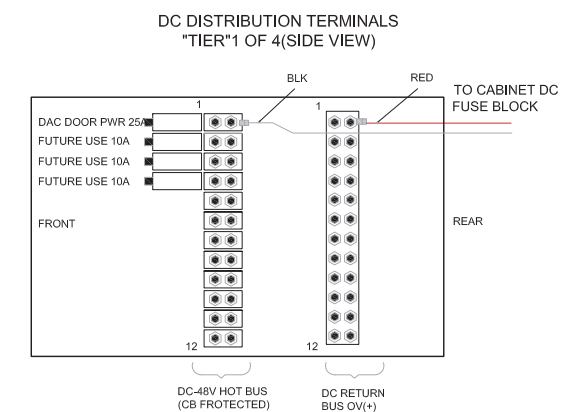


**AC POWER WIRING DIAGRAM**



OBSERVE CORRECT ALARM PIN ORIENTATION

**DC POWER WIRING DIAGRAM**



**FOR  
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CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021

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BJ

LICENSURE:



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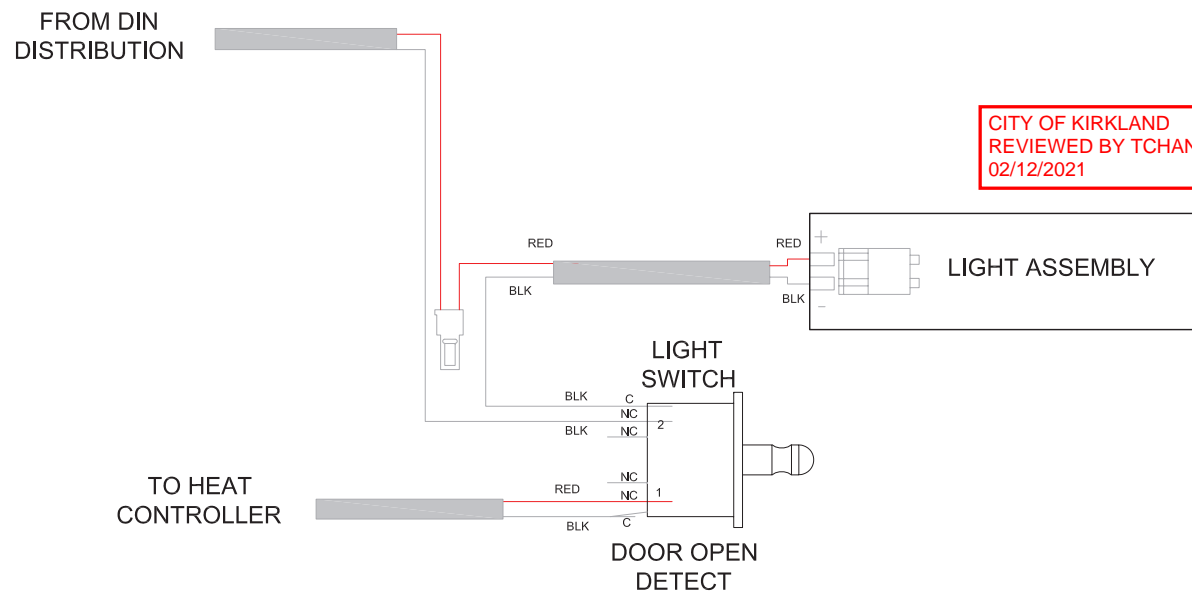
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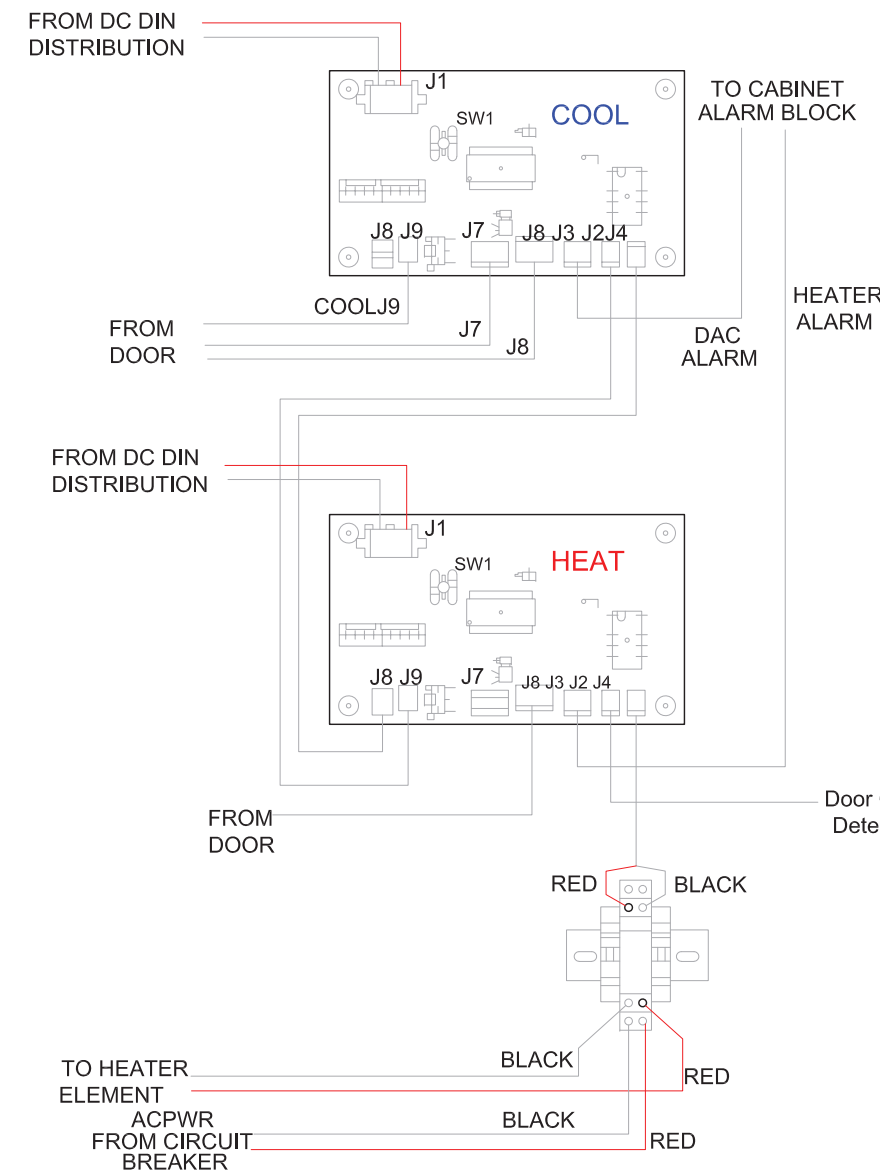
**ELECTRICAL  
DIAGRAMS**

DRAWING NUMBER:

**E-1.2**



**DC CABINET DOOR LIGHT POWER WIRING DIAGRAM**



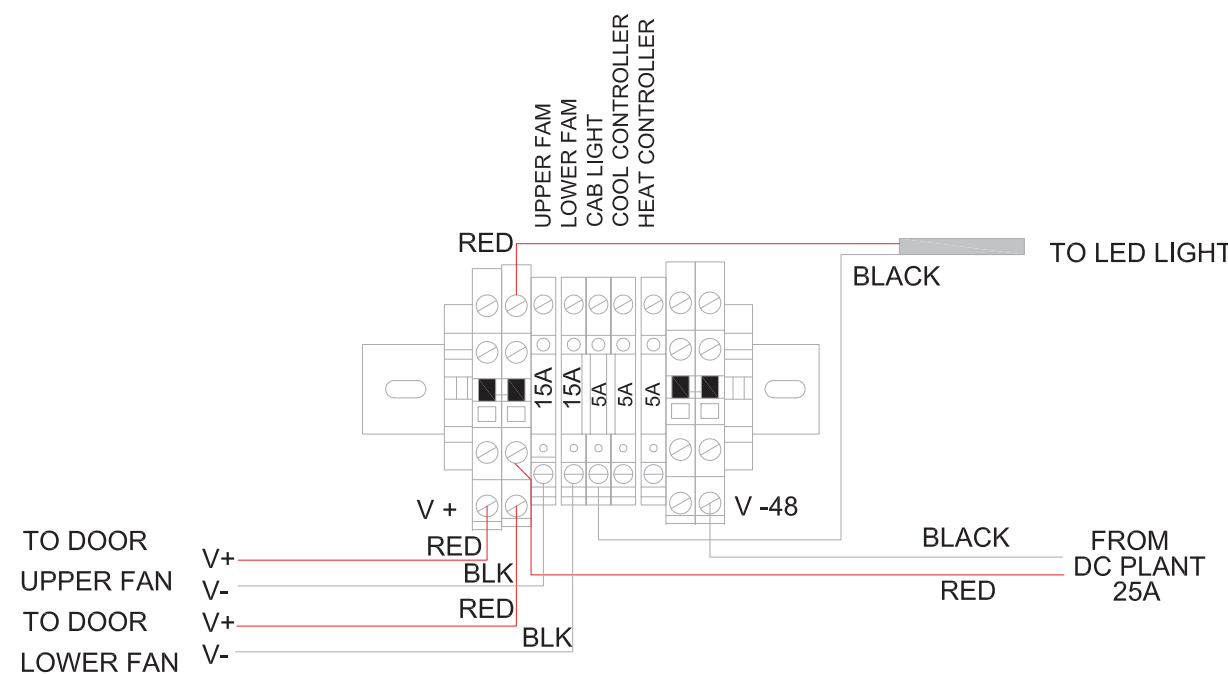
**DC HEATING AND COOLING WIRING DIAGRAM**

DAC (COOLING) CONTROLLER

COHN FUNCTION	
J1	PIWR IN
J8	DELTA T JUMPER
J9	OUTSIDE TEMPERATURE
J7	DACFAN (LOWER)
J6	DACFAN (UPPER)
J3	ALARM
J2	COOLING INHIBIT
J4	HEAT REQUEST

HEATER CONTROLLER

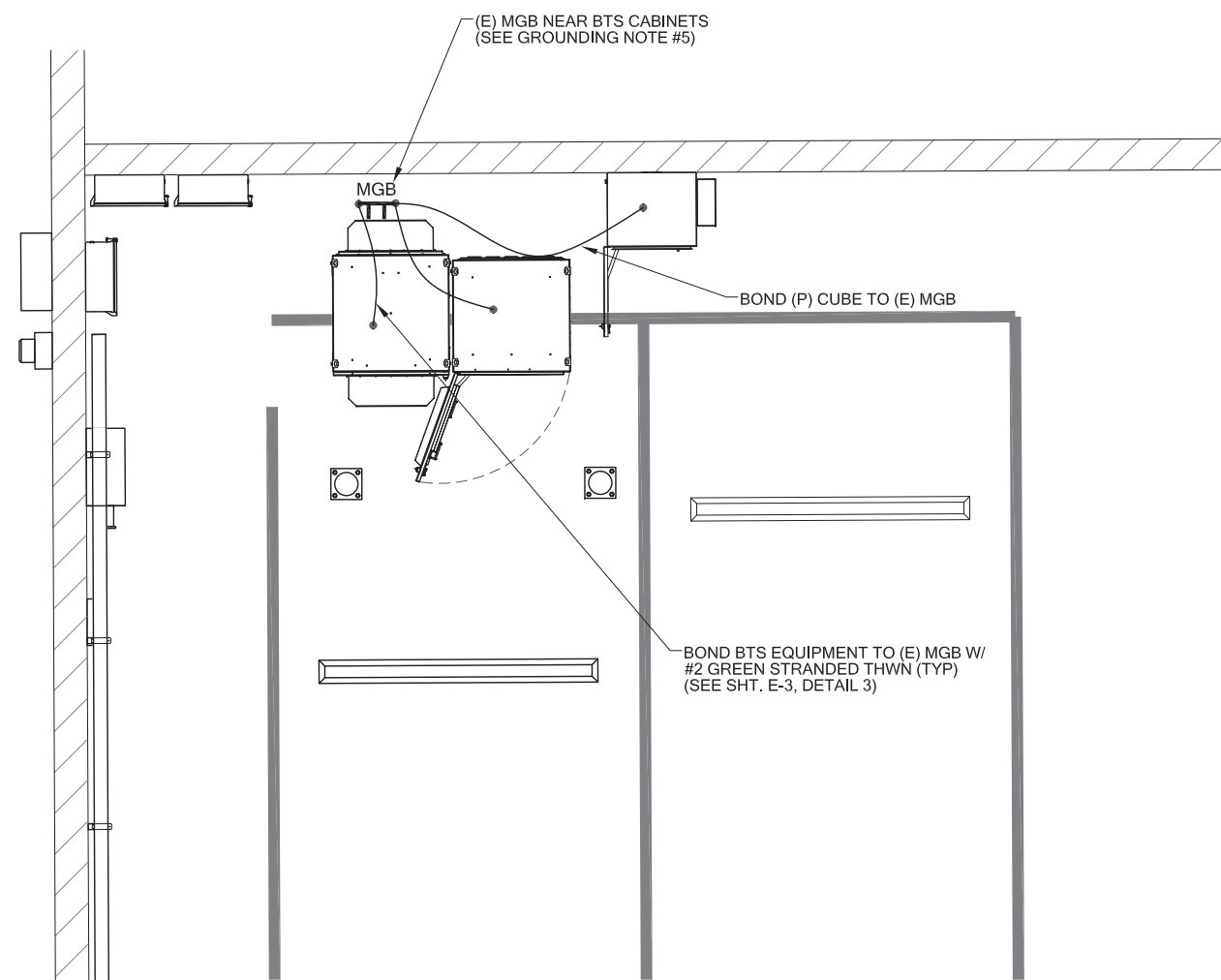
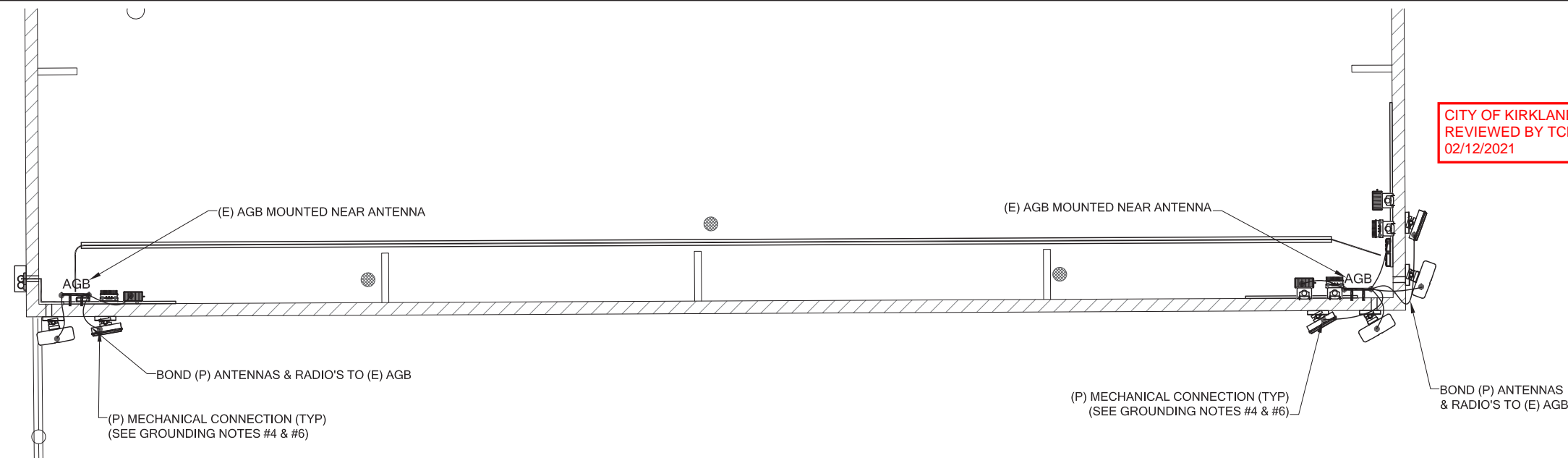
COHN FUNCTION	
J1	PIWR IN
J8	HEAT REQUEST
J9	COOLING INHIBIT
J7	UNUSED
J6	HEATER FAN
J3	ALARM
J2	DOOR SW INPUT
J4	HEATER REALY CONTROL



**DC FUSE BLOCK WIRING DIAGRAM**

**FOR  
REFERENCE  
ONLY**

CITY OF KIRKLAND  
REVIEWED BY TCHAN  
02/12/2021



**GROUNDING NOTES:**

1. GROUNDING SHALL COMPLY WITH LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
2. MINIMUM BENDING RADIUS FOR GROUND CONDUCTOR IS 8".
3. NO SPLICES PERMITTED IN GROUND CONDUCTORS.
4. ALL GROUNDING CONNECTORS TO BE CLEAN AND FREE OF PAINT AT THEIR MATING SURFACES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. USE PENETROX OR EQUIVALENT ANTIOXIDANT GREASE.
5. ALL GROUND BAR CONNECTIONS ARE TO BE 2 HOLE LUG COMPRESSION TYPE. STACKED CONNECTIONS ARE NOT ACCEPTABLE. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR WILL BE PERMITTED.
6. ENSURE ALL MECHANICAL CONNECTORS ARE TORQUED TO THE MANUFACTURER'S SPECIFIED VALUES.
7. MULTIPLE BONDS ON GROUND RODS TO BE SEPARATED BY ATLEAST 6".
8. MAXIMUM RESISTANCE OF THE COMPLETED GROUND SYSTEM SHALL NOT EXCEED A RESISTANCE OF 5 OHMS TO EARTH.
9. GROUND WIRES SHALL NOT BE INSTALLED THROUGH HOLES IN ANY METAL OBJECTS OR SUPPORTS; TO PRECLUDE ESTABLISHING A "CHOKE" POINT.
10. GROUND BARS SHALL NOT BE FIELD MODIFIED.
11. GROUND RING BURIAL DEPTH SHALL BE 30".
12. A CERTIFIED CONTRACTOR WILL MAKE ALL MEASUREMENTS REQUIRED TO TEST THE GROUNDING SYSTEM USING A MEGGER OR EQUIVALENT. THE ACCEPTABLE RESISTANCE MEASURED FOR THE GROUNDING SYSTEM WILL NOT EXCEED 5 OHMS RESISTANCE. THREE DISTANCES SHALL BE USED: 1 AT 100 FEET, 1 AT 70 FEET, AND 1 AT 35 FEET. THESE DISTANCES ARE SUBJECT TO A SITE BY SITE BASIS. T-MOBILE-WTS SHALL BE GIVEN 24 HOURS NOTICE. ALL COSTS ASSOCIATED WITH GROUND TESTING WILL BE AT THE EXPENSE OF THE CONTRACTOR.

**SYMBOL LEGEND:**

- MGB MASTER GROUND BAR 1/4"x4"x24" COPPER
- AGB ACCESSORY GROUND BAR 1/4"x4"x12" OR 1/4"x4"x20" COPPER
- EXPOSED WIRING
- UNDERGROUND WIRING
- CADWELD
- MECHANICAL CONNECTION
- 5/8"x8" COPPER CLAD STEEL GROUND ROD
- INSPECTION PORT
- EXOTHERMIC (CADWELD) BELOW GROUND
- GROUND

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

**FOR  
REFERENCE  
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**KIRKLAND/LIVENGOOD  
SE02100T**

121 THIRD AVENUE  
KIRKLAND, WA 98083

**ISSUED FOR:**

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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:**



**DRAWING INFORMATION:**

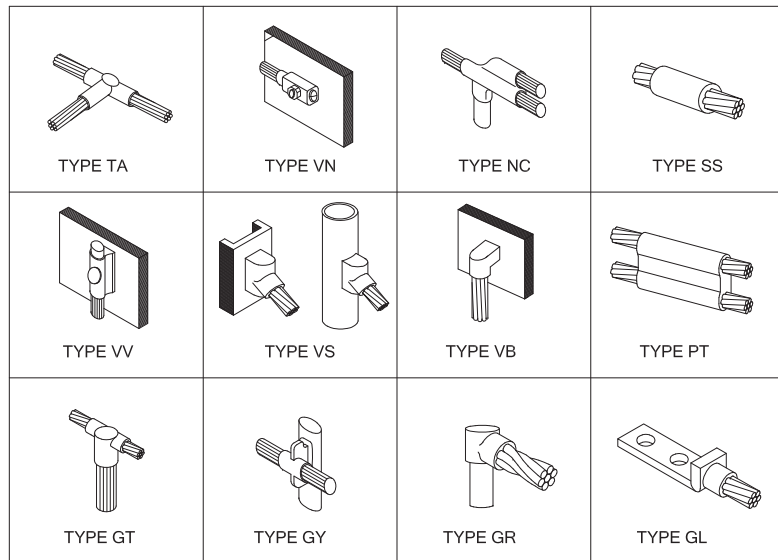
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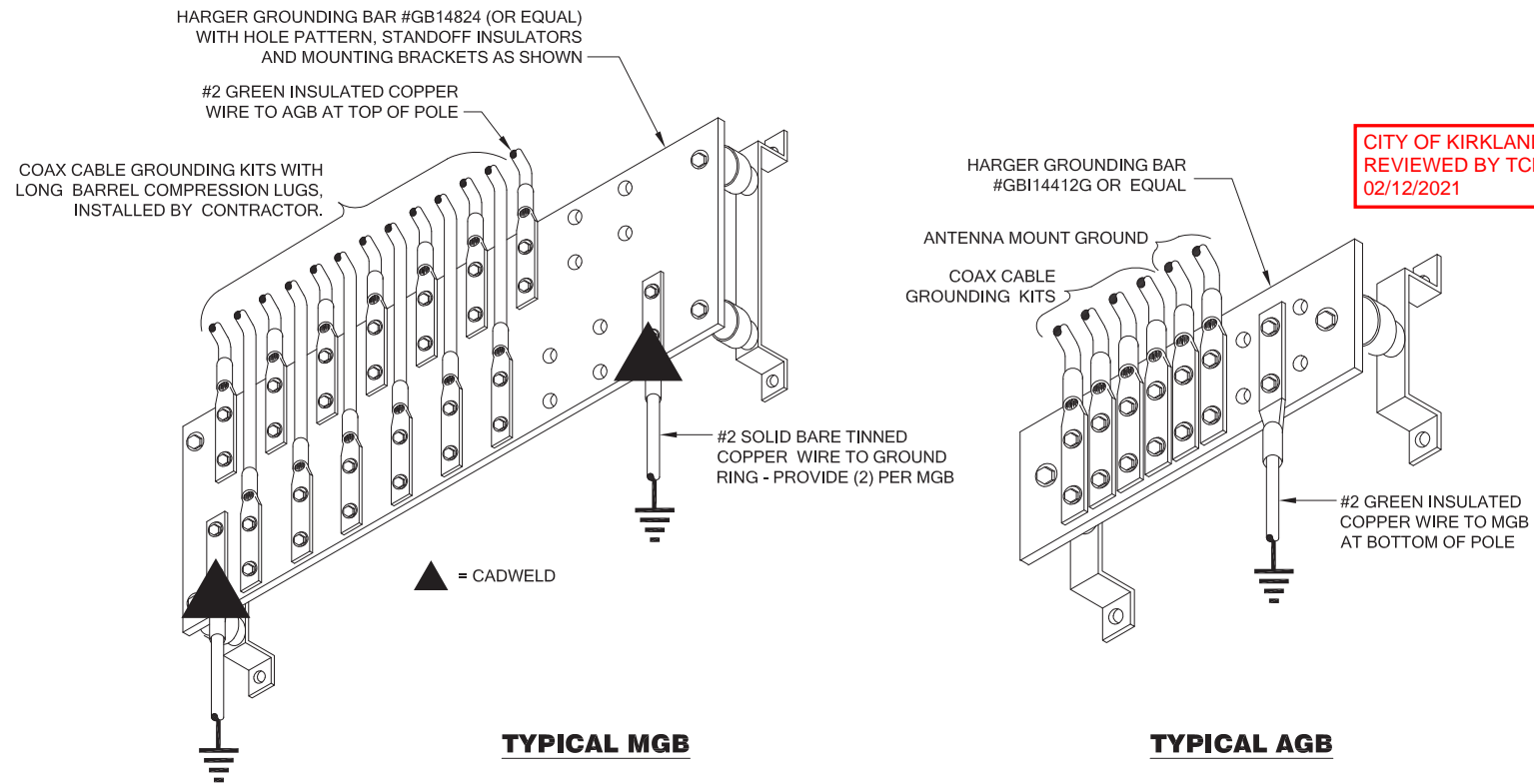
**ELECTRICAL  
GROUNDING PLAN**

**DRAWING NUMBER:**

**E-2**



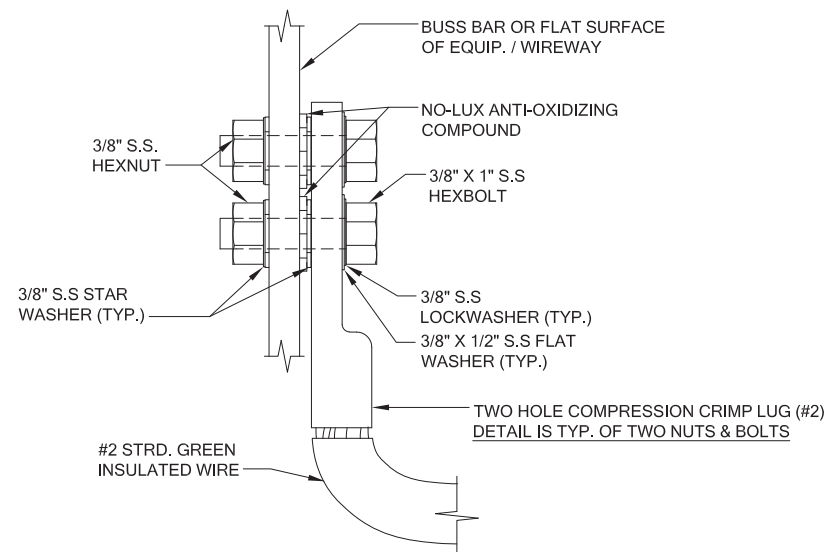
1 **TYPICAL CADWELD CONNECTIONS**  
E-2 N.T.S.



**TYPICAL MGB**

**TYPICAL AGB**

2 **GROUND BAR DETAILS**  
E-2 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.

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

**FOR REFERENCE ONLY**



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**PLANS PREPARED BY:**

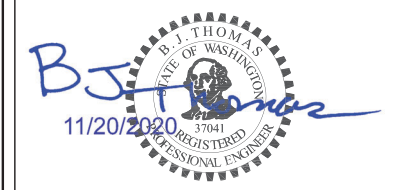
**B. J. THOMAS, P.E.**  
7607 80TH AVE NE  
MARYSVILLE, WA 98270  
206-851-1106

**DRAWN BY: CHK. BY:**

JL

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**DRAWING TITLE:**

**ELECTRICAL  
GROUNDING  
DETAILS**

**DRAWING NUMBER:**

**E-3**

**'FINAL' SITE LOADING CHART**

SECTOR	COLOR	POSITION	ANTENNA MODEL #	VENDOR	AZIMUTH (TN)	RADIATION CENTER	HYBRID CABLE LENGTH	COAX CABLES	ADDITIONAL EQUIPMENT				
ALPHA	RED	1	FFVV-65B-R3-V1	COMMSCOPE	110°	32'-11" AGL	(2) 200' HCS 2.0 HYBRID & (1) 100' HCS 2.0 HYBRID	N/A	(1) AHLOA				
		2	AEHC	NOKIA		31'-5" AGL			(1) AHFIG				
BETA	GREEN	1	AEHC	NOKIA	150°	31'-5" AGL			(2) 200' HCS 2.0 HYBRID & (1) 100' HCS 2.0 HYBRID	N/A	(1) AHLOA		
		2	FFVV-65B-R3-V1	COMMSCOPE		32'-11" AGL					(1) AHFIG		
GAMMA	BLUE	1	FFVV-65B-R3-V1	COMMSCOPE	170°	32'-7" AGL					(2) 200' HCS 2.0 HYBRID & (1) 100' HCS 2.0 HYBRID	N/A	(1) AHLOA
		2	AEHC	NOKIA		31'-1" AGL							(1) AHFIG

RFDS	
PROJECT TYPE	ANCHOR
RFDS VERSION	5 - 9/24/2020 4:17:40 PM

CITY OF KIRKLAND  
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02/12/2021



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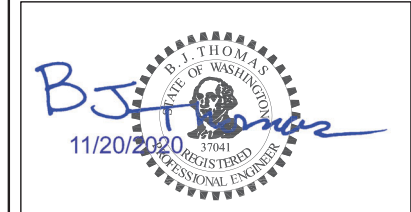
**PLANS PREPARED BY:**

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**DRAWN BY:                      CHK. BY:**

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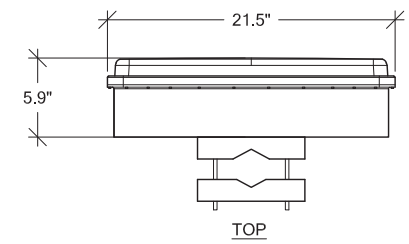
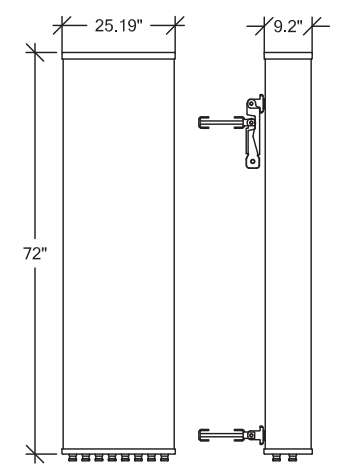
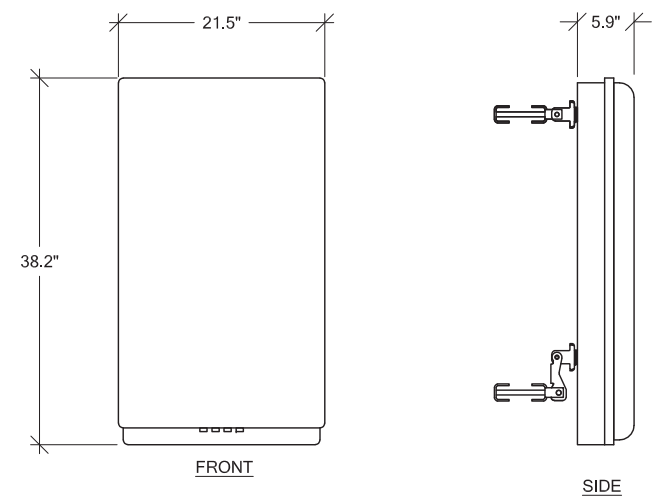
**DRAWING TITLE:**

**RF DETAILS**

**DRAWING NUMBER:**

**RF-1**

MANUFACTURER: NOKIA  
MODEL: AEHC  
WEIGHT: 108 LBS  
DIMENSIONS: 38.2" x 21.5" x 5.9"



1 AEHC DETAIL  
RF-1 SCALE: NTS

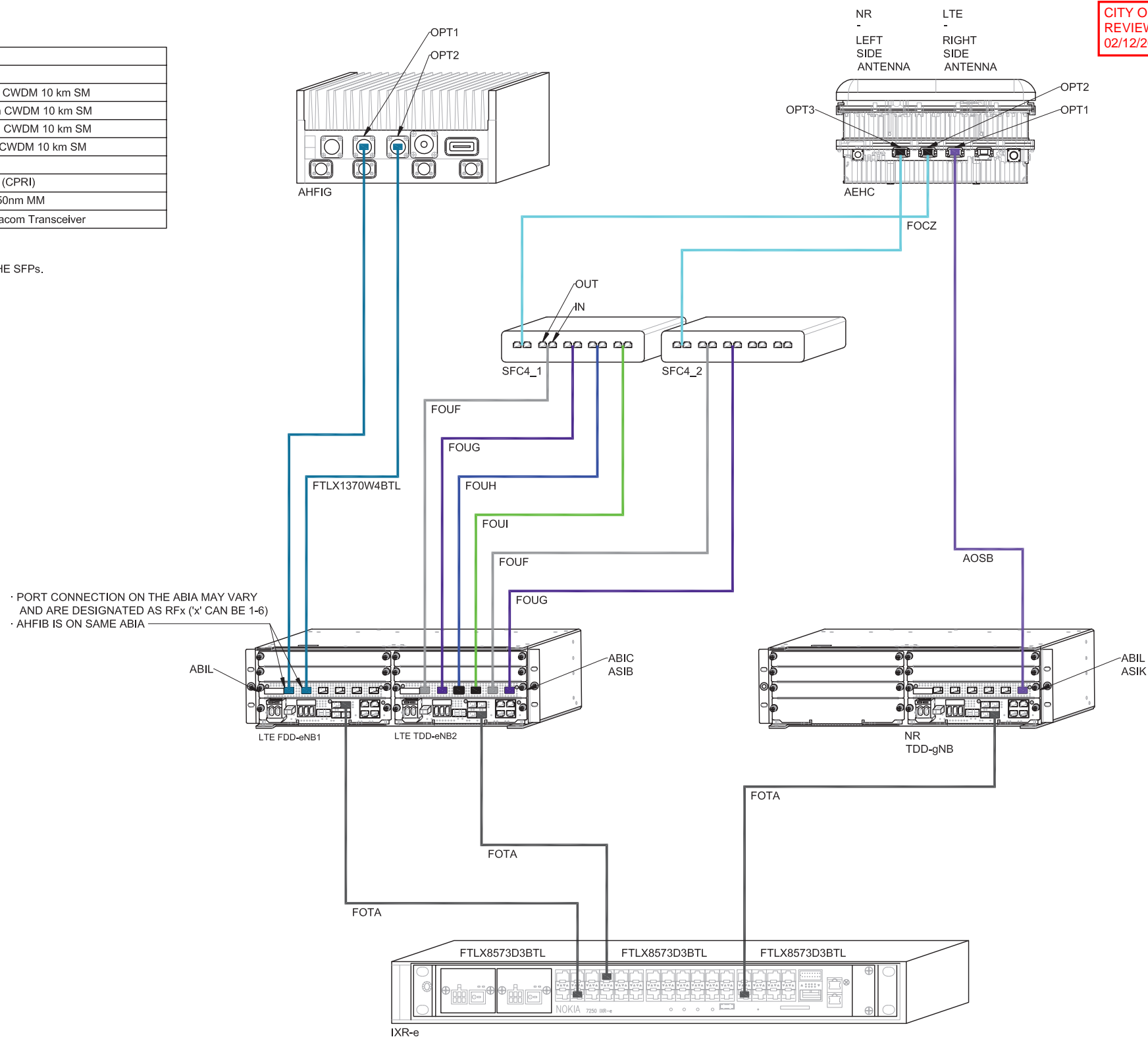
COMMSCOPE ANTENNA DATA				
MECHANICAL SPECIFICATIONS				
PART NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT
FFVV-65B-R3-V1	72 in	25.19 in	9.2 in	101.4 lbs
CONNECTORS	STANDARD MOUNTING HARDWARE			
(8) 7-16 DIN	INCLUDED			
ELECTRICAL SPECIFICATIONS				
FREQUENCY	POLARIZATION	GAIN	AZIMUTH B.W.	
617-2690 MHz	±45°	16-18.6 dBi	57° - 68°	
	VSWR	MAX INPUT POWER	ELEVATION B.W.	
	<1.5:1	250 WATTS	4.1° - 10.2°	

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NOKIA ITEM CODE/SECTOR	PRODUCT NAME
474335A	x 2 FOCZ QSFP+ 4x10 km SM
474385A	x 2 FOUF SFP+ 10GBASE-LR 1271 nm CWDM 10 km SM
474386A	x 2 FOUG SFP+ 10GBASE-LR 1291 nm CWDM 10 km SM
474387A	x 1 FOUH SFP+ 10GBASE-LR 1311 nm CWDM 10 km SM
474388A	x 1 FOUI SFP+ 10GBASE-LR 1331 nm CWDM 10 km SM
474829A	x 2 AOSB QSFP28 SM 10 km LC
FTLX1370W4BTL	x 4 SM SFP 1310 nm CPRI 9.8G 1.4km (CPRI)
473471A	x 3 FOTA Optical SFP+ 10GBase-SR 850nm MM
FTLX8573D3BTL	x 3 10Gb/s 850nm Multimode SFP+ Datacom Transceiver

NOTE:  
JDSU AND EXFO GEAR CAN BE USED TO READ WAVELENGTH ON THE SFPs.



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**SFP DETAILS**

DRAWING NUMBER:

**RF-1.1**



