



09/12/2018  
CP&D RECEIVED

PROJECT NAME: OLY TIVOLI  
PROJECT LOCATION: 1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

ZONING

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0	08/03/18	ISSUED FOR PERMIT
A	05/23/18	ISSUED FOR REVIEW

No.

Date

Revision



Client:

Implementation Team:

A&E Team:



Project Info:

OLY TIVOLI

1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

Drawing Title:

COVER  
SHEET

Project Number:

180096700

Start Date:

05/16/18

Drafter:

RB

Designer:

RB

Project Manager:

LJB

Professional of Record:

LC

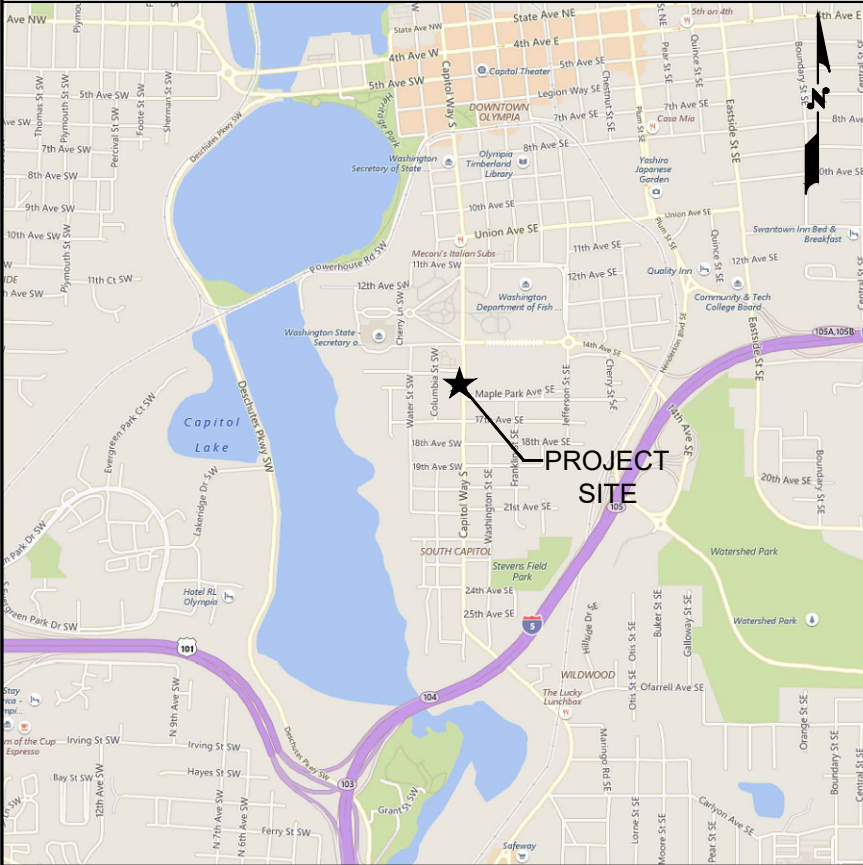
Revision No:

0

Sheet No:

T-1

VICINITY MAP



DRIVING DIRECTIONS

(FROM SEATTLE TACOMA INTERNATIONAL AIRPORT)

- HEAD SOUTH ON DEPARTURES DR.
- CONTINUE STRAIGHT ONTO AIRPORT EXPRESSWAY
- TAKE THE WA-99 EXIT
- TURN RIGHT ONTO S. 170TH ST.
- TURN RIGHT ONTO INTERNATIONAL BLVD/PACIFIC HWY S.
- TURN LEFT ONTO S. 200TH ST. AND USE MIDDLE LANE TO TAKE RAMP ONTO I-5 S.
- FOLLOW I-5 S. TO 14TH AVE. SE IN OLYMPIA. TAKE EXIT 105 FROM I-5 S. (45.8 MI)
- MERGE ONTO 14TH AVE. SE
- STAY ON 14TH AVE. (0.5 MI) TO CAPITOL WAY S.
- TURN LEFT ON CAPITOL WAY S., DESTINATION IS ON THE RIGHT.

PROJECT INFORMATION

JURISDICTION: CITY OF OLYMPIA  
ZONING CLASS: PO/RM  
OCCUPANCY GROUP: UTILITY  
CONSTRUCTION TYPE: RAW LAND MONOPOLE (MONOPINE, SELF-SUPPORT)/TENANT IMPROVEMENT  
TAX PARCEL ID: 60800500300  
PARCEL SIZE: – SQ FT (– ACRES)  
LATITUDE: 47°02'02.22" N  
47.033950°  
LONGITUDE: 122°54'03.81" W  
–122.901058°  
GROUND ELEVATION: 137.0' AMSL  
STRUCTURE HEIGHT: 76'–0" (TOP OF STEALTH ANTENNA STRUCTURE)  
59.4' (TOP OF ROOF)  
60.4' (TOP OF PARAPET)  
LEASE AREA: 104 S.F. (EQUIPMENT ROOM)  
64 S.F. (STEALTH ANTENNA STUCTURE)  
64 S.F. (STEALTH ANTENNA STUCTURE)

LEGAL DESCRIPTION

SECTION 23 TOWNSHIP 18 RANGE 2W  
PLAT MAPLE PARK ADDITION TO  
OLYMPIA BLK 5 LT 3 & 4 N 65F LT 5  
DOCUMENT 001/050

CONTACTS

IMPLEMENTATION CONTACT:

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PROPERTY OWNER CONTACT:

CONTACT NAME  
COMPANY  
ADDRESS 1  
ADDRESS 2  
PHONE: (–) XXX-XXXX

ZONING PERMIT CONTACT:

CARLY NATIONS  
GLOTEL, INC  
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ENGINEER OF RECORD:

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SURVEYOR:

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SEATTLE, WA 98166  
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SCOPE OF WORK

VERIZON WIRELESS PROPOSES TO INSTALL AN UNMANNED TELECOMMUNICATIONS FACILITY CONSISTING OF THE INSTALLATION OF (2) ROOFTOP STEALTH ANTENNA PLATFORMS , (6) NEW PANEL ANTENNAS WITH A ±76'–0" TIP HEIGHT, (6) RRU'S, (2) HYBRID CABLES AND (2) RAYCAP SPLITTER/SURGE SUPPRESSOR AT ROOF LEVEL OF AN EXISTING BUILDING. ALSO PROPOSED IS THE INSTALLATION OF (3) EQUIPMENT CABINETS AND (2) RAYCAP SURGE SUPPRESSOR MOUNTED WITHIN CABINET WITHIN A 8'–0"x13'–0" FENCED AREA IN A 8'–0"x13'–0" LEASE AREA LOCATED WITHIN FIRST FLOOR PARKING GARAGE.

LIST OF DRAWINGS

SHEET	DESCRIPTION
T-1	COVER SHEET
T-2	GENERAL NOTES AND SYMBOLS
SV1	SITE SURVEY
A-1	SITE PLAN
A-1.1	PROPOSED COMPOUND AND EQUIPMENT PLANS
A-2	PROPOSED EAST ELEVATION
A-2.1	PROPOSED SOUTH ELEVATION
RF-1	PROPOSED ANTENNA CONFIGURATION

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT CONDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

WASHINGTON STATE AND LOCAL BUILDING CODES WITH THE FOLLOWING REFERENCE CODE:

2015 INTERNATIONAL BUILDING CODE (IBC)  
2015 INTERNATIONAL MECHANICAL CODE (IMC)  
2015 INTERNATIONAL FIRE CODE (IFC)  
2017 NATIONAL ELECTRIC CODE (NFPA 70)

APPROVALS

	SIGNATURE	DATE
REPRESENTATIVE		
SITE OWNER		
RF ENGINEER		

GENERAL NOTES		LINE/ANTENNA NOTES	ABBREVIATIONS				DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.
<div><div><div>1. WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL NECESSARY LICENSES, CERTIFICATES, ETC., REQUIRED BY AUTHORITY HAVING JURISDICTION SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.</div><div>2. MORRISON HERSHFIELD CORPORATION HAS NOT CONDUCTED, NOR DOES IT INTEND TO CONDUCT ANY INVESTIGATION AS TO THE PRESENCE OF HAZARDOUS MATERIAL, INCLUDING, BUT NOT LIMITED TO, ASBESTOS WITHIN THE CONFINES OF THIS PROJECT. MORRISON HERSHFIELD CORPORATION DOES NOT ACCEPT RESPONSIBILITY FOR THE INDEMNIFICATION, THE REMOVAL, OR ANY EFFECTS FROM THE PRESENCE OF THESE MATERIALS. IF EVIDENCE OF HAZARDOUS MATERIALS IS FOUND, WORK IS TO BE SUSPENDED AND THE OWNER NOTIFIED. THE CONTRACTOR IS NOT TO PROCEED WITH FURTHER WORK UNTIL INSTRUCTED BY THE OWNER IN WRITING.</div><div>3. ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE NOTED. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE CONTRACTOR SHALL REPAIR OR REPLACE AT HIS EXPENSE ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIALS OR WORKMANSHIP WITHIN SAID PERIOD OF TIME OR FOR ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE ENTIRE PROJECT, WHICHEVER IS GREATER.</div><div>4. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND UTILITIES AT THE JOB SITE BEFORE WORK IS STARTED. NO CLAIMS FOR EXTRA COMPENSATION FOR WORK WHICH COULD HAVE BEEN FORESEEN BY AN INSPECTION, WHETHER SHOWN ON THE CONTRACT DOCUMENTS OR NOT, WILL BE ACCEPTED OR PAID.</div><div>5. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT. ALL MANUFACTURERS' RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED WITH.</div><div>6. THE CONTRACTOR SHALL VERIFY AND COORDINATE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, OR ARCHITECTURAL WORK.</div><div>7. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL COMPENSATION.</div><div>8. DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE EITHER TO THE FACE OF FINISHED ELEMENTS OR TO THE CENTER LINE OF ELEMENTS, UNLESS NOTED OTHERWISE. CRITICAL DIMENSIONS SHALL BE VERIFIED AND NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.</div><div>9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO A BETTER THAN EXISTING CONDITION.</div><div>10. 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.</div><div>11. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.</div><div>12. 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 ARCHITECT OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE CONSULTANT 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.</div><div>13. WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS OR REFERRED TO IN THE SPECIFICATIONS, UNLESS NOTED OTHERWISE.</div><div>14. 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.</div><div>15. 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.</div><div>16. VERIFY ALL EXISTING DIMENSIONS PRIOR TO PERFORMING WORK.</div><div>17. VERIFY LOCATION OF ALL BURIED UTILITIES PRIOR TO ANY EXCAVATION.</div><div>18. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR COMMERCIAL POWER IMMEDIATELY UPON AWARD OF CONTRACT. THE GENERAL CONTRACTOR IS REQUIRED TO KEEP ALL DOCUMENTATION RECEIVED FROM THE POWER COMPANY, ACKNOWLEDGING APPLICATION FOR POWER, WRITTEN AND VERBAL DISCUSSIONS WITH THE POWER COMPANY, ETC.</div><div>19. THE GENERAL CONTRACTOR SHALL OBTAIN WRITTEN CONFIRMATION OF THE EXPECTED DATE OF COMPLETION OF THE POWER CONNECTION FROM THE POWER COMPANY.</div><div>20. IF THE POWER COMPANY IS UNABLE TO PROVIDE THE POWER CONNECTION BY OWNER'S REQUIRED DATE, THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY GENERATOR UNTIL THE POWER COMPANY CONNECTION IS COMPLETED. COSTS ASSOCIATED WITH THE TEMPORARY GENERATOR TO BE APPROVED BY THE OWNER.</div><div>21. IF THE GENERAL CONTRACTOR FAILS TO TAKE NECESSARY MEASURES AS DESCRIBED IN NOTES 18, 19 AND 20 ABOVE, THE GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR AT NO COST TO THE OWNER.</div><div>22. PLANS PART OF THIS SET ARE COMPLEMENTARY. INFORMATION IS NOT LIMITED TO ONE PLAN. DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER ON OTHER PROJECTS OR EXTENSION TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. THESE PLANS WERE PREPARED TO BE SUBMITTED TO GOVERNMENTAL BUILDING AUTHORITIES FOR REVIEW FOR COMPLIANCE WITH APPLICABLE CODES AND IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO BUILD ACCORDING TO APPLICABLE BUILDING CODES.</div><div>23. IF CONTRACTOR OR SUB-CONTRACTOR FIND IT NECESSARY TO DEViate FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ARCHITECT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.</div><div>24. IN EVERY EVENT, THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE MEANS OF CONSTRUCTION BUT THIS SHALL NOT RELIEVE THE CONTRACTOR, SUB-CONTRACTOR, AND/OR SUPPLIER/MANUFACTURER FROM PROVIDING A COMPLETE AND CORRECT JOB WHEN ADDITIONAL ITEMS ARE REQUIRED TO THE MINIMUM SPECIFICATION. IF ANY ITEMS NEED TO EXCEED THESE MINIMUM SPECIFICATIONS TO PROVIDE A COMPLETE, ADEQUATE AND SAFE WORKING CONDITION, THEN IT SHALL BE THE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE DRAWINGS. FOR EXAMPLE, IF AN ITEM AND/OR PIECE OF EQUIPMENT REQUIRES A LARGER WIRE SIZE (I.E. ELECTRICAL WIRE), STRONGER OR LARGER PIPING, INCREASED QUANTITY (I.E. STRUCTURAL ELEMENTS), REDUCED SPACING, AND/OR INCREASED LENGTH (I.E. BOLT LENGTHS, BAR LENGTHS) THEN IT SHALL BE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE BID/PROPOSAL. THESE DOCUMENTS ARE MEANT AS A GUIDE AND ALL ITEMS REASONABLY INFERRED SHALL BE DEEMED TO BE INCLUDED.</div><div>25. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.</div><div>26. CONTRACTOR &amp; ANY SUBCONTRACTORS TO MAINTAIN KEEPING THE ROAD ACCESS GATE LOCKED AT ALL TIMES.</div><div>27. IN RAWLAND CONDITIONS, TOWER FOUNDATION STRUCTURAL STEEL TO BE GROUNDED PRIOR TO CONCRETE POUR. TOWER FOUNDATION STRUCTURAL STEEL TO BE CONNECTED TO PERMANENT GROUND ROD PRIOR TO TOWER ERECTION. TOWER GROUND MUST BE MAINTAINED AT ALL TIMES.</div></div></div>	<div><div><div>1. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM F3125 OR A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHER WISED NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.</div><div>2. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.</div><div>3. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.</div><div>4. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.</div><div>5. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.</div><div>6. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS</div><div>7. FOR GROUNDING TO BUILDING FRAME &amp; HATCH PLATE GROUND BARS. USE A TWO-BOLT HOLE NEMA DRILLED CONNECTOR SUCH AS T&amp;B 32007 OR APPROVED EQUAL</div><div>8. FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS &amp; CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORN CHEMICAL COMPANY.</div><div>9. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING. USE ERICO T-319 GALVANIZING BAR/COLD GALVANIZING PAINT.</div><div>10. SEAL ALL CONDUIT PENETRATIONS INTO MODULAR BUILDING WITH A SILICONE SEALANT AND ALL CONDUIT OPENINGS.</div><div>11. ALL COAXIAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3' OR THE CABLE MANUFACTURES SPECIFICATIONS WHICHEVER IS LESS, WITH HARDWARE SPECIFIED IN THE COAXIAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT.</div><div>12. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING THREE (3) TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE VERIZON WIRELESS RADIO FREQUENCY THRU ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE. (1) COPY TO BE PLACED IN SHELTER.</div><div>13. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING VERIZON WIRELESS WITH THREE TYPE WRITTEN TIME DOMAIN REFLECTOMETER TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.</div><div>14. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.</div><div>15. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" DIA, AND SHALL NOT EXCEED 6'-0"</div><div>16. ALL MAIN TRANSMISSION CABLE WILL BE TERMINATED AT A VERIZON WIRELESS POLYPHASER PROTECTOR LOCATED WITHIN 1'-0" OF THE EQUIPMENT SHELTER.</div><div>17. ANTENNA CABLE LENGTHS HAVE BEEN DETERMINED BASED ON THESE PLANS, CABLE LENGTHS LISTED ARE APPROXIMATED AND ARE NOT INTENDED TO BE USED FOR FABRICATION DUE TO FIELD CONDITIONS ACTUAL CABLE LENGTHS REQUIRE. CONTRACTOR MUST FIELD VERIFY ANTENNA CABLE LENGTHS PRIOR TO ORDER.</div><div>18. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTENNA PRIOR TO JUMPER, B) AT THE BOTTOM OF THE TOWER, C) EXTERIOR PART OF THE WAVE GUIDE ENTRY PORT (AT THE SHELTER/CABINET WALL), D) INTERIOR OF THE SHELTER/CABINET.</div><div>19. ALL MAIN CABLES WILL BE GROUNDED AT: A) AT THE ANTENNA MOUNTING PIPE, B) MIDDLE OF THE CABLE RUN IF OVER 200', C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1' OF ENTRY).</div><div>20. PROVIDE AT LEAST 6" OF SLACK IN THE MAIN COAXIAL CABLES AT THE TOWER TOP TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.</div><div>21. PROVIDE A CABLE DRIP LOOP AT THE BOTTOM OF THE TOWER BELOW THE TOWER BOTTOM GROUND CONNECTIONS AND AS THE CABLE TRANSITIONS TO THE SHELTER/CABINET.</div><div>22. ANTENNAS AND COAX TO BE PROVIDED BY <b>VERIZON WIRELESS</b>. CONTRACTOR TO COORDINATE DELIVERY.</div></div></div>	<div><div><div>AGL A/C APPROX AZ</div><div>ABOVE GROUND LEVEL AIR CONDITIONING APPROXIMATELY AZIMUTH</div><div>BLDG BLK</div><div>BUILDING BLOCKING</div><div>CLG CLR CLC CONC CONST CONT</div><div>CEILING CENTERLINE CLEAR CONCRETE CONSTRUCTION CONTINUOUS</div><div>DET DIA DIAG DIM DBL DN DWG</div><div>DETAIL DIAMETER DIAGONAL DIMENSION DOUBLE DOWN DRAWING</div><div>EA ELEC ELEV EQ EQUIP (E) EXT</div><div>EACH ELECTRICAL ELEVATION EQUAL EQUIPMENT EXISTING EXTERIOR</div><div>FIN FLR FLUOR FT</div><div>FINISH FLOOR FLUORESCENT FOOT</div><div>GA GALV GC GC GR GRND GYP BD</div><div>GAUGE GALVANIZED GENERAL CONTRACTOR GRADE GROUND GYPSUM WALL BOARD</div><div>HT HVAC HR</div><div>HEIGHT HEATING VENTILATION AIR CONDITIONING HORIZONTAL HOUR</div><div>IN INFO ID INSUL INT IBC</div><div>INCH INFORMATION INSIDE DIAMETER INSULATION INTERIOR INTERNATIONAL BUILDING CODE</div><div>LBS</div><div>POUNDS</div><div>MGR MFR MAX MECH MTL MIN MISC</div><div>MANAGER MANUFACTURER MAXIMUM MECHANICAL METAL MINIMUM MISCELLANEOUS</div><div>N/A NIC NTS</div><div>NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE</div><div>OC OD</div><div>ON CENTER OUTSIDE DIAMETER</div><div>PLYWD PT PROJ PROP (P)</div><div>PLYWOOD PRESSURE TREATED PROJECT PROPERTY PROPOSED</div><div>QTY</div><div>QUANTITY</div><div>REQ RM RO ROW</div><div>REQUIRED ROOM ROUGH OPENING RIGHT OF WAY</div><div>SHT SIM SPEC SF SS STL</div><div>SHEET SIMILAR SPECIFICATION SQUARE FOOT STAINLESS STEEL STEEL</div><div>STRUCT STD SUSP</div><div>STRUCTURAL STUD SUSPENDED</div><div>THRU TNNG TYP</div><div>THROUGH TINNED TYPICAL</div><div>UG UNO</div><div>UNDERGROUND UNLESS NOTED OTHERWISE</div><div>VIF VERT</div><div>VERIFY IN FIELD VERTICAL</div><div>WP W/ W/O</div><div>WATER PROOF WITH WITHOUT</div></div><div><div><div>— UGP —</div><div>UG POWER CONDUIT</div><div>— P —</div><div>POWER CONDUIT</div><div>— UGT —</div><div>UG TELCO CONDUIT</div><div>— T —</div><div>TELCO CONDUIT</div></div></div></div>	<div><div><div>08/03/18</div><div>ISSUED FOR PERMIT</div></div><div><div>05/23/18</div><div>ISSUED FOR REVIEW</div></div><div><div>No.</div><div>Date</div><div>Revision</div></div><div>Client:</div><div><div>verizon</div></div><div>Implementation Team:</div><div><div>A&amp;E Team:</div><div><div><div><div><div></div></div><div><div></div></div></div><div><div>MORRISON HERSHFIELD</div><div>600 STEWART ST, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370 www.morrisonhershfield.com</div></div></div><div>Project Info:</div><div><div>OLY TIVOLI</div><div>1517 CAPITOL WAY S. OLYMPIA, WA 98501</div></div><div>Drawing Title:</div><div><div>GENERAL NOTES AND SYMBOLS</div></div><div><div><div>Project Number: 180096700</div><div>Start Date: 05/16/18</div></div><div><div>Drafter: RB</div><div>Designer: RB</div></div><div><div>Project Manager: LJB</div><div>Professional of Record: LC</div></div><div><div>Revision No:</div><div>Sheet No:</div></div><div><div>0</div><div>T-2</div></div></div></div></div></div>				
GENERAL NOTES		LINE/ANTENNA NOTES	ABBREVIATIONS				DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.
<div><div><div>1. WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL NECESSARY LICENSES, CERTIFICATES, ETC., REQUIRED BY AUTHORITY HAVING JURISDICTION SHALL BE PROCURED AND PAID FOR BY THE CONTRACTOR.</div><div>2. MORRISON HERSHFIELD CORPORATION HAS NOT CONDUCTED, NOR DOES IT INTEND TO CONDUCT ANY INVESTIGATION AS TO THE PRESENCE OF HAZARDOUS MATERIAL, INCLUDING, BUT NOT LIMITED TO, ASBESTOS WITHIN THE CONFINES OF THIS PROJECT. MORRISON HERSHFIELD CORPORATION DOES NOT ACCEPT RESPONSIBILITY FOR THE INDEMNIFICATION, THE REMOVAL, OR ANY EFFECTS FROM THE PRESENCE OF THESE MATERIALS. IF EVIDENCE OF HAZARDOUS MATERIALS IS FOUND, WORK IS TO BE SUSPENDED AND THE OWNER NOTIFIED. THE CONTRACTOR IS NOT TO PROCEED WITH FURTHER WORK UNTIL INSTRUCTED BY THE OWNER IN WRITING.</div><div>3. ALL MATERIAL FURNISHED UNDER THIS CONTRACT SHALL BE NEW, UNLESS OTHERWISE NOTED. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE CONTRACTOR SHALL REPAIR OR REPLACE AT HIS EXPENSE ALL WORK THAT MAY DEVELOP DEFECTS IN MATERIALS OR WORKMANSHIP WITHIN SAID PERIOD OF TIME OR FOR ONE YEAR AFTER THE FINAL ACCEPTANCE OF THE ENTIRE PROJECT, WHICHEVER IS GREATER.</div><div>4. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS AND UTILITIES AT THE JOB SITE BEFORE WORK IS STARTED. NO CLAIMS FOR EXTRA COMPENSATION FOR WORK WHICH COULD HAVE BEEN FORESEEN BY AN INSPECTION, WHETHER SHOWN ON THE CONTRACT DOCUMENTS OR NOT, WILL BE ACCEPTED OR PAID.</div><div>5. THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT. ALL MANUFACTURERS' RECOMMENDED SPECIFICATIONS, EXCEPT THOSE SPECIFICATIONS HEREIN, WHERE MOST STRINGENT SHALL BE COMPLIED WITH.</div><div>6. THE CONTRACTOR SHALL VERIFY AND COORDINATE SIZE AND LOCATION OF ALL OPENINGS FOR STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, CIVIL, OR ARCHITECTURAL WORK.</div><div>7. THE CONTRACTOR SHALL VERIFY THAT NO CONFLICTS EXIST BETWEEN THE LOCATIONS OF ANY AND ALL MECHANICAL, ELECTRICAL, PLUMBING, OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET. NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT WITHOUT THE CONTRACTOR GETTING ADDITIONAL COMPENSATION.</div><div>8. DO NOT SCALE THE DRAWINGS. DIMENSIONS ARE EITHER TO THE FACE OF FINISHED ELEMENTS OR TO THE CENTER LINE OF ELEMENTS, UNLESS NOTED OTHERWISE. CRITICAL DIMENSIONS SHALL BE VERIFIED AND NOTIFY THE CONSULTANT OF ANY DISCREPANCIES.</div><div>9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP OF ALL TRADES AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE BUILDING, SITE, AND ANY OTHER SURROUNDING AREAS TO A BETTER THAN EXISTING CONDITION.</div><div>10. 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.</div><div>11. THE CONTRACTOR SHALL MEET ALL OSHA REQUIREMENTS FOR ALL INSTALLATIONS.</div><div>12. 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 ARCHITECT OF ANY DAMAGE TO THE BUILDING SITE OR ANY ADJACENT STRUCTURES AROUND THE PROJECT. THE CONSULTANT 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.</div><div>13. 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IF THE POWER COMPANY IS UNABLE TO PROVIDE THE POWER CONNECTION BY OWNER'S REQUIRED DATE, THE GENERAL CONTRACTOR SHALL PROVIDE AND MAINTAIN A TEMPORARY GENERATOR UNTIL THE POWER COMPANY CONNECTION IS COMPLETED. COSTS ASSOCIATED WITH THE TEMPORARY GENERATOR TO BE APPROVED BY THE OWNER.</div><div>21. IF THE GENERAL CONTRACTOR FAILS TO TAKE NECESSARY MEASURES AS DESCRIBED IN NOTES 18, 19 AND 20 ABOVE, THE GENERAL CONTRACTOR SHALL PROVIDE A TEMPORARY GENERATOR AT NO COST TO THE OWNER.</div><div>22. PLANS PART OF THIS SET ARE COMPLEMENTARY. INFORMATION IS NOT LIMITED TO ONE PLAN. DRAWINGS AND SPECIFICATIONS ARE INSTRUMENTS OF SERVICE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED BY THE OWNER ON OTHER PROJECTS OR EXTENSION TO THIS PROJECT EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT. THESE PLANS WERE PREPARED TO BE SUBMITTED TO GOVERNMENTAL BUILDING AUTHORITIES FOR REVIEW FOR COMPLIANCE WITH APPLICABLE CODES AND IT IS THE SOLE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR TO BUILD ACCORDING TO APPLICABLE BUILDING CODES.</div><div>23. IF CONTRACTOR OR SUB-CONTRACTOR FIND IT NECESSARY TO DEViate FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ARCHITECT WITH 4 COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR PROCURING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.</div><div>24. IN EVERY EVENT, THESE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL BE INTERPRETED TO BE A MINIMUM ACCEPTABLE MEANS OF CONSTRUCTION BUT THIS SHALL NOT RELIEVE THE CONTRACTOR, SUB-CONTRACTOR, AND/OR SUPPLIER/MANUFACTURER FROM PROVIDING A COMPLETE AND CORRECT JOB WHEN ADDITIONAL ITEMS ARE REQUIRED TO THE MINIMUM SPECIFICATION. IF ANY ITEMS NEED TO EXCEED THESE MINIMUM SPECIFICATIONS TO PROVIDE A COMPLETE, ADEQUATE AND SAFE WORKING CONDITION, THEN IT SHALL BE THE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE DRAWINGS. FOR EXAMPLE, IF AN ITEM AND/OR PIECE OF EQUIPMENT REQUIRES A LARGER WIRE SIZE (I.E. ELECTRICAL WIRE), STRONGER OR LARGER PIPING, INCREASED QUANTITY (I.E. STRUCTURAL ELEMENTS), REDUCED SPACING, AND/OR INCREASED LENGTH (I.E. BOLT LENGTHS, BAR LENGTHS) THEN IT SHALL BE DEEMED AND UNDERSTOOD TO BE INCLUDED IN THE BID/PROPOSAL. THESE DOCUMENTS ARE MEANT AS A GUIDE AND ALL ITEMS REASONABLY INFERRED SHALL BE DEEMED TO BE INCLUDED.</div><div>25. THESE CONTRACT DOCUMENTS AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO CREATE A CONTRACTUAL RELATIONSHIP OF ANY KIND BETWEEN THE ARCHITECT AND THE CONTRACTOR.</div><div>26. CONTRACTOR &amp; ANY SUBCONTRACTORS TO MAINTAIN KEEPING THE ROAD ACCESS GATE LOCKED AT ALL TIMES.</div><div>27. IN RAWLAND CONDITIONS, TOWER FOUNDATION STRUCTURAL STEEL TO BE GROUNDED PRIOR TO CONCRETE POUR. TOWER FOUNDATION STRUCTURAL STEEL TO BE CONNECTED TO PERMANENT GROUND ROD PRIOR TO TOWER ERECTION. TOWER GROUND MUST BE MAINTAINED AT ALL TIMES.</div></div></div>	<div><div><div>1. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLES SHALL CONFORM TO ASTM A307 OR ASTM A36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM F3125 OR A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED OTHERWISE NOTED. CONCRETE EXPANSION ANCHORS SHALL BE HILTI KWIK BOLTS UNLESS OTHER WISED NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.</div><div>2. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.</div><div>3. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.</div><div>4. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT.</div><div>5. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.</div><div>6. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE. AVOID SHARP BENDS. ALL BENDS TO BE A MIN. OF 8" RADIUS</div><div>7. FOR GROUNDING TO BUILDING FRAME &amp; HATCH PLATE GROUND BARS. USE A TWO-BOLT HOLE NEMA DRILLED CONNECTOR SUCH AS T&amp;B 32007 OR APPROVED EQUAL</div><div>8. FOR ALL EXTERNAL GROUND CONNECTIONS, CLAMPS &amp; CADWELDS, APPLY A LIBERAL PROTECTIVE COATING OR AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORN CHEMICAL COMPANY.</div><div>9. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY THERMO-WELDING. USE ERICO T-319 GALVANIZING BAR/COLD GALVANIZING PAINT.</div><div>10. SEAL ALL CONDUIT PENETRATIONS INTO MODULAR BUILDING WITH A SILICONE SEALANT AND ALL CONDUIT OPENINGS.</div><div>11. ALL COAXIAL CABLE WILL BE SECURED TO THE DESIGNED SUPPORT STRUCTURE AT DISTANCES NOT TO EXCEED 3' OR THE CABLE MANUFACTURES SPECIFICATIONS WHICHEVER IS LESS, WITH HARDWARE SPECIFIED IN THE COAXIAL CABLE ROUTING DETAILS OF THE SUPPLIED STRUCTURAL REPORT.</div><div>12. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING THREE (3) TYPEWRITTEN SWEEP TESTS (ANTENNA RETURN LOSS TEST). THIS TEST SHALL BE PERFORMED TO THE SPECIFICATIONS AND PARAMETERS OUTLINED BY THE VERIZON WIRELESS RADIO FREQUENCY THRU ENGINEER. THIS TEST SHALL BE PERFORMED PRIOR TO FINAL ACCEPTANCE OF THE SITE. (1) COPY TO BE PLACED IN SHELTER.</div><div>13. THE COAXIAL ANTENNA CABLE INSTALLER SHALL BE RESPONSIBLE FOR PERFORMING AND SUPPLYING VERIZON WIRELESS WITH THREE TYPE WRITTEN TIME DOMAIN REFLECTOMETER TESTS TO VERIFY CABLE LENGTH AND TO CHECK FOR WATER DAMAGE.</div><div>14. VAPOR WRAP WILL BE USED TO SEAL ALL CONNECTIONS.</div><div>15. ALL JUMPERS TO THE ANTENNAS FROM THE MAIN TRANSMISSION LINE WILL BE 1/2" DIA, AND SHALL NOT EXCEED 6'-0"</div><div>16. ALL MAIN TRANSMISSION CABLE WILL BE TERMINATED AT A VERIZON WIRELESS POLYPHASER PROTECTOR LOCATED WITHIN 1'-0" OF THE EQUIPMENT SHELTER.</div><div>17. ANTENNA CABLE LENGTHS HAVE BEEN DETERMINED BASED ON THESE PLANS, CABLE LENGTHS LISTED ARE APPROXIMATED AND ARE NOT INTENDED TO BE USED FOR FABRICATION DUE TO FIELD CONDITIONS ACTUAL CABLE LENGTHS REQUIRE. CONTRACTOR MUST FIELD VERIFY ANTENNA CABLE LENGTHS PRIOR TO ORDER.</div><div>18. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS: A) AT ANTENNA PRIOR TO JUMPER, B) AT THE BOTTOM OF THE TOWER, C) EXTERIOR PART OF THE WAVE GUIDE ENTRY PORT (AT THE SHELTER/CABINET WALL), D) INTERIOR OF THE SHELTER/CABINET.</div><div>19. ALL MAIN CABLES WILL BE GROUNDED AT: A) AT THE ANTENNA MOUNTING PIPE, B) MIDDLE OF THE CABLE RUN IF OVER 200', C) PRIOR TO ENTERING EQUIPMENT SHELTER/CABINET (WITHIN 1' OF ENTRY).</div><div>20. PROVIDE AT LEAST 6" OF SLACK IN THE MAIN COAXIAL CABLES AT THE TOWER TOP TO PROVIDE FOR FUTURE CONNECTOR REPLACEMENT.</div><div>21. PROVIDE A CABLE DRIP LOOP AT THE BOTTOM OF THE TOWER BELOW THE TOWER BOTTOM GROUND CONNECTIONS AND AS THE CABLE TRANSITIONS TO THE SHELTER/CABINET.</div><div>22. ANTENNAS AND COAX TO BE PROVIDED BY <b>VERIZON WIRELESS</b>. CONTRACTOR TO COORDINATE DELIVERY.</div></div></div>	<div><div><div>AGL A/C APPROX AZ</div><div>ABOVE GROUND LEVEL AIR CONDITIONING APPROXIMATELY AZIMUTH</div><div>BLDG BLK</div><div>BUILDING BLOCKING</div><div>CLG CLR CLC CONC CONST CONT</div><div>CEILING CENTERLINE CLEAR CONCRETE CONSTRUCTION CONTINUOUS</div><div>DET DIA DIAG DIM DBL DN DWG</div><div>DETAIL DIAMETER DIAGONAL DIMENSION DOUBLE DOWN DRAWING</div><div>EA ELEC ELEV EQ EQUIP (E) EXT</div><div>EACH ELECTRICAL ELEVATION EQUAL EQUIPMENT EXISTING EXTERIOR</div><div>FIN FLR FLUOR FT</div><div>FINISH FLOOR FLUORESCENT FOOT</div><div>GA GALV GC GC GR GRND GYP BD</div><div>GAUGE GALVANIZED GENERAL CONTRACTOR GRADE GROUND GYPSUM WALL BOARD</div><div>HT HVAC HR</div><div>HEIGHT HEATING VENTILATION AIR CONDITIONING HORIZONTAL HOUR</div><div>IN INFO ID INSUL INT IBC</div><div>INCH INFORMATION INSIDE DIAMETER INSULATION INTERIOR INTERNATIONAL BUILDING CODE</div><div>LBS</div><div>POUNDS</div><div>MGR MFR MAX MECH MTL MIN MISC</div><div>MANAGER MANUFACTURER MAXIMUM MECHANICAL METAL MINIMUM MISCELLANEOUS</div><div>N/A NIC NTS</div><div>NOT APPLICABLE NOT IN CONTRACT NOT TO SCALE</div><div>OC OD</div><div>ON CENTER OUTSIDE DIAMETER</div><div>PLYWD PT PROJ PROP (P)</div><div>PLYWOOD PRESSURE TREATED PROJECT PROPERTY PROPOSED</div><div>QTY</div><div>QUANTITY</div><div>REQ RM RO ROW</div><div>REQUIRED ROOM ROUGH OPENING RIGHT OF WAY</div><div>SHT SIM SPEC SF SS STL</div><div>SHEET SIMILAR SPECIFICATION SQUARE FOOT STAINLESS STEEL STEEL</div><div>STRUCT STD SUSP</div><div>STRUCTURAL STUD SUSPENDED</div><div>THRU TNNG TYP</div><div>THROUGH TINNED TYPICAL</div><div>UG UNO</div><div>UNDERGROUND UNLESS NOTED OTHERWISE</div><div>VIF VERT</div><div>VERIFY IN FIELD VERTICAL</div><div>WP W/ W/O</div><div>WATER PROOF WITH WITHOUT</div></div><div><div><div>— UGP —</div><div>UG POWER CONDUIT</div><div>— P —</div><div>POWER CONDUIT</div><div>— UGT —</div><div>UG TELCO CONDUIT</div><div>— T —</div><div>TELCO CONDUIT</div></div></div></div>	<div><div><div>08/03/18</div><div>ISSUED FOR PERMIT</div></div><div><div>05/23/18</div><div>ISSUED FOR REVIEW</div></div><div><div>No.</div><div>Date</div><div>Revision</div></div><div>Client:</div><div><div>verizon</div></div><div>Implementation Team:</div><div><div>A&amp;E Team:</div><div><div><div><div><div></div></div><div><div></div></div></div><div><div>MORRISON HERSHFIELD</div><div>600 STEWART ST, SUITE 200 SEATTLE, WA 98101 Tel: 206.268.7370 www.morrisonhershfield.com</div></div></div><div>Project Info:</div><div><div>OLY TIVOLI</div><div>1517 CAPITOL WAY S. 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LEGAL DESCRIPTION

NO TITLE RESEARCH PROVIDED AT THIS TIME

EASEMENTS

# CORRESPONDS WITH ITEM NUMBER IN 'SCHEDULE B' OF TITLE REPORT.

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

LATITUDE/LONGITUDE POSITION

COORDINATE DATA AT PROPOSED ANTENNA LOCATION:  
NAD 83  
LAT - 47.033950° N NAVD 88  
LONG - 122.901058° W ELEV.= 137.9 FEET



BENCHMARK IS BASED ON  
WSRN PUGET SOUND  
REFERENCE NETWORK.

ELEVATION DERIVED USING GPS. ACCURACY  
MEETS OR EXCEEDS 1A STANDARDS AS DEFINED  
ON THE FAA ASAC INFORMATION SHEET 91:003.

NOTES

- 1) NO TITLE RESEARCH PROVIDED AT THIS TIME. CALCULATED BOUNDARY MAY CHANGE UPON RECEIPT OF TITLE.
- 2) FIELD WORK CONDUCTED IN MARCH, 2018.
- 3) BASIS OF BEARING: WASHINGTON STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (NAD83).
- 4) 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.

BUILDING HEIGHT NOTE

AVERAGE GROUND ELEVATION IS 137.9 FEET:  
HEIGHTS BASED ON THIS ELEVATION ARE AS  
FOLLOWS:  
AVERAGE ROOF HT.=59.4'  
PARAPET HT.=60.4'  
PENTHOUSE ROOF HT.=68.2'  
CHIMNEY STACK HT.=71.1'

LEGEND

- SUBJECT BOUNDARY LINE
- RIGHT-OF-WAY CENTERLINE
- RIGHT-OF-WAY LINE
- ADJACENT BOUNDARY LINE
- SECTIONAL BREAKDOWN LINE
- OVERHEAD POWER LINE
- BURIED POWER LINE
- BURIED GAS LINE
- OVERHEAD TELEPHONE LINE
- BURIED TELEPHONE LINE
- BURIED WATER LINE
- BURIED SANITARY SEWER
- BURIED STORM DRAIN
- DITCH LINE/FLOW LINE
- ROCK RETAINING WALL
- VEGETATION LINE
- CHAIN LINK FENCE
- WOOD FENCE
- BARBED WIRE/WIRE FENCE

- |                 |                      |
|-----------------|----------------------|
| TRANSFORMER     | FIRE HYDRANT         |
| SECURITY LIGHT  | GATE VALVE           |
| POWER VAULT     | WATER METER          |
| UTILITY BOX     | FIRE STAND PIPE      |
| UTILITY POLE    | IRRIGATION CONTROL   |
| POLE GUY WIRE   | CATCH BASIN, TYPE I  |
| GAS VALVE       | CATCH BASIN, TYPE II |
| ROOF DRAIN      | SIGN                 |
| TELEPHONE VAULT | BOLLARD              |
| TEL. MANHOLE    | MAIL BOX             |
| TELEPHONE RISER | 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       |
| AL2                    | MP=MAPLE       |
| TRUNK DIAMETER (IN)    | DS=DECIDUOUS   |
| TYPE                   | MA=MADRONA     |
|                        | OK=OAK         |
|                        | CH=CHERRY      |
| EVERGREEN TREE         | CE=CEDAR       |
| DF18                   | DF=DOUGLAS FIR |
| 195.2                  | HE=HEMLOCK     |
| HEIGHT AGL IF MEASURED | 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 60800500300  
SITE ADDRESS 1517 CAPITOL WAY S  
OLYMPIA, WA 98501  
SITE CONTACT JOHN PERANZI  
PHONE NUMBER 253-921-5377  
ZONING PO/RM (CITY OF OLYMPIA)  
TOTAL LOT AREA TO BE DETERMINED  
PROJECT AREA TO BE DETERMINED

SURVEY REFERENCE

RECORD OF SURVEY PER A.F. NO. 4194030, RECORDS  
OF THURSTON 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

verizon

MORRISON HERSHFIELD

10900 NE 8TH ST., SUITE 810  
BELLEVUE, WA 98004  
Tel: 425.451.1301 Fax: 425.451.1369  
www.morrisonhershfield.com



DUNCANSON

Company, Inc.

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

SITE

OLY TIVOLI

1517 CAPITOL WAY S  
OLYMPIA, WA 98501  
THURSTON COUNTY

THIS DRAWING WAS CREATED FOR THE  
EXCLUSIVE USE OF THE CLIENT NAMED HEREON,  
AND IS NOT TO BE USED IN WHOLE OR IN PART  
WITHOUT WRITTEN AUTHORIZATION FROM  
SAD CLIENT.

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FLD. CREW:	CR
FLD. BOOK:	483/116
DRAWN BY:	LAC
JOB #:	99544.2154
DATE:	03/16/18

REVISIONS

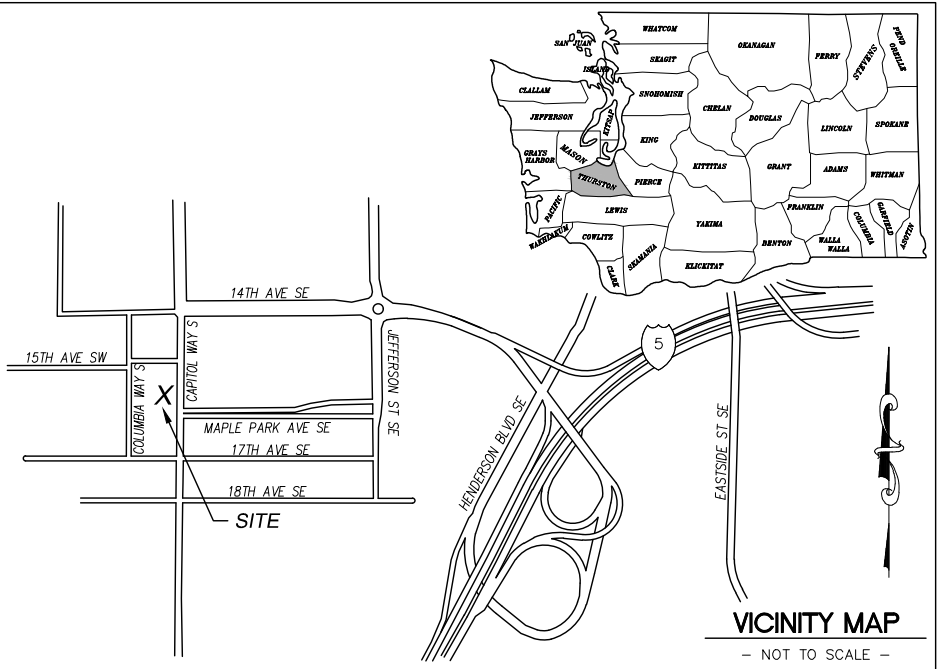
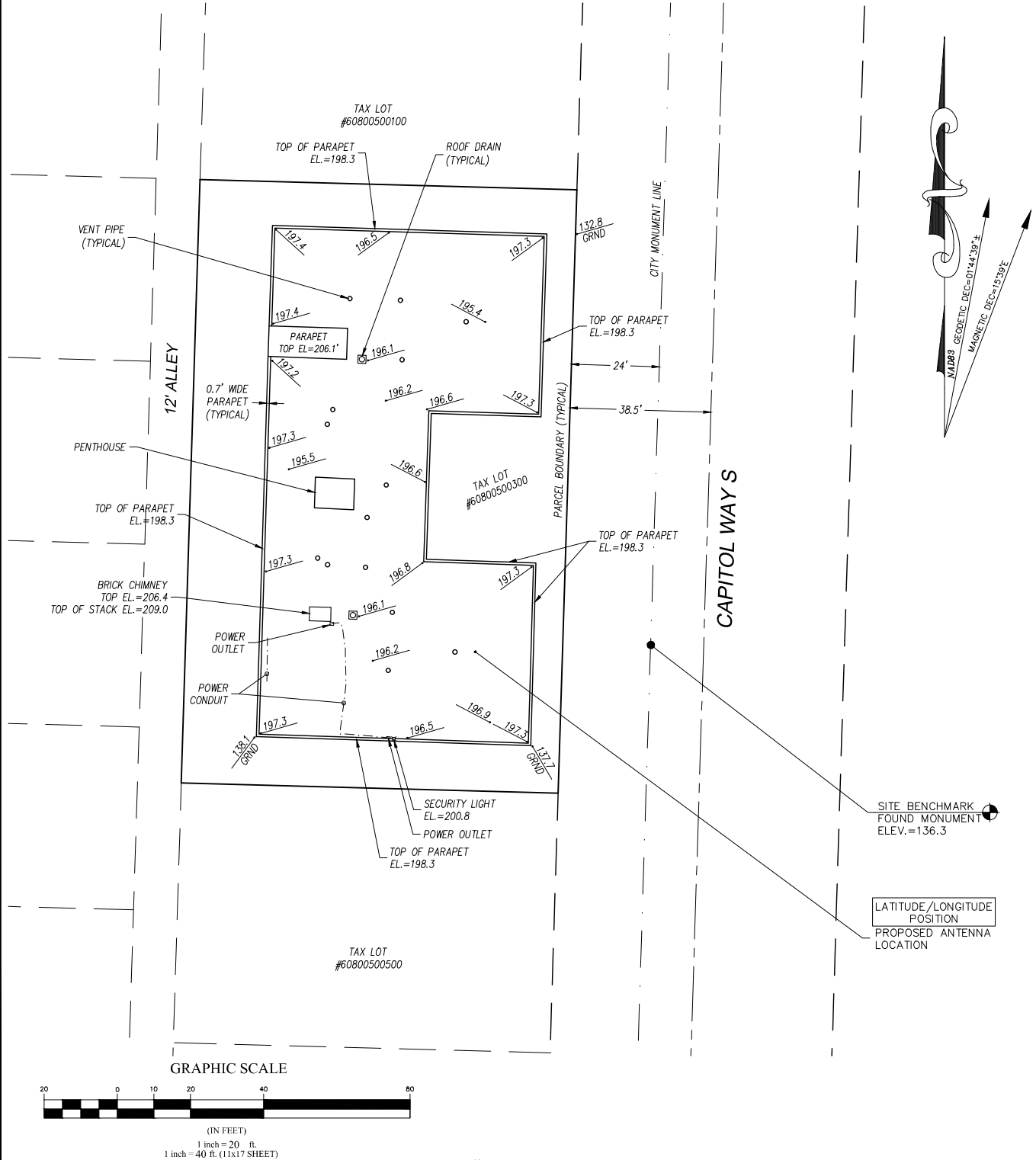
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SHEET TITLE  
EXISTING SITE SURVEY  
SEC 23, TWP 18 N, RNG 2 W, WM

SHEET NUMBER

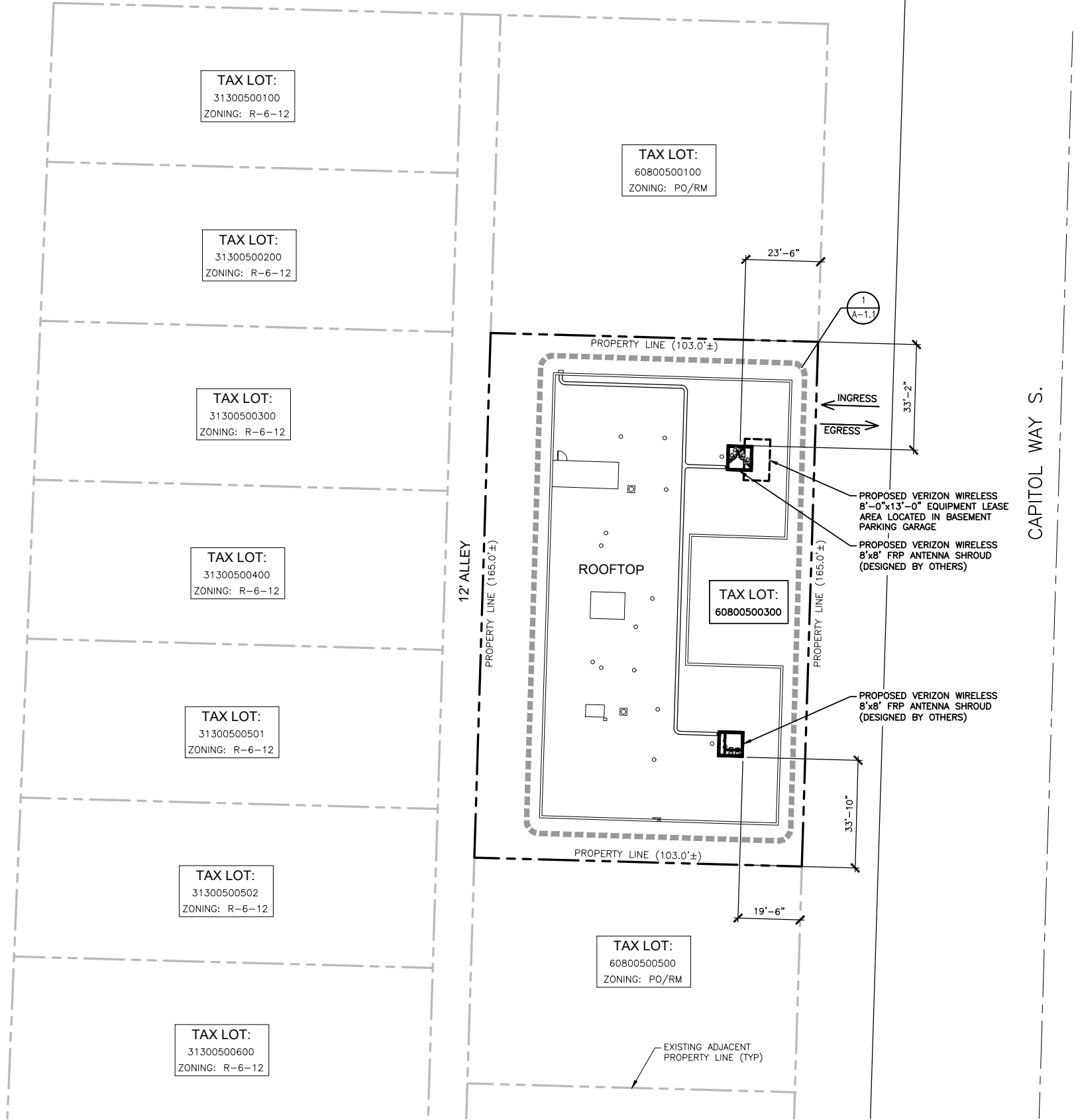
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NOTE:  
THIS IS NOT A SURVEY. ALL INFORMATION AND TRUE NORTH  
HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND  
JURISDICTIONAL GIS INFORMATION AND ARE APPROXIMATE.

15TH AVE. SW



DO NOT SCALE DRAWINGS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE CONSULTANTS OF ANY ERRORS OR OMISSIONS. NO VARIATIONS OR MODIFICATIONS TO WORK SHOWN SHALL BE IMPLEMENTED WITHOUT PRIOR WRITTEN APPROVAL. ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED BY THE LATEST REVISION. ALL DRAWINGS AND SPECIFICATIONS REMAIN THE PROPERTY OF MORRISON HERSHFIELD CORPORATION. NEITHER MORRISON HERSHFIELD NOR THE ARCHITECT WILL BE PROVIDING CONSTRUCTION REVIEW OF THIS PROJECT.

ZONING

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0	08/03/18	ISSUED FOR PERMIT
A	05/23/18	ISSUED FOR REVIEW
No.	Date	Revision

Client:



Implementation Team:

A&E Team:



Project Info:

OLY TIVOLI

1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

Drawing Title:

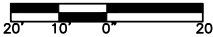
SITE PLAN

Project Number: 180096700	Start Date: 05/16/18
Drafter: RB	Designer: RB
Project Manager: LJB	Professional of Record: LC
Revision No:	Sheet No:

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A-1

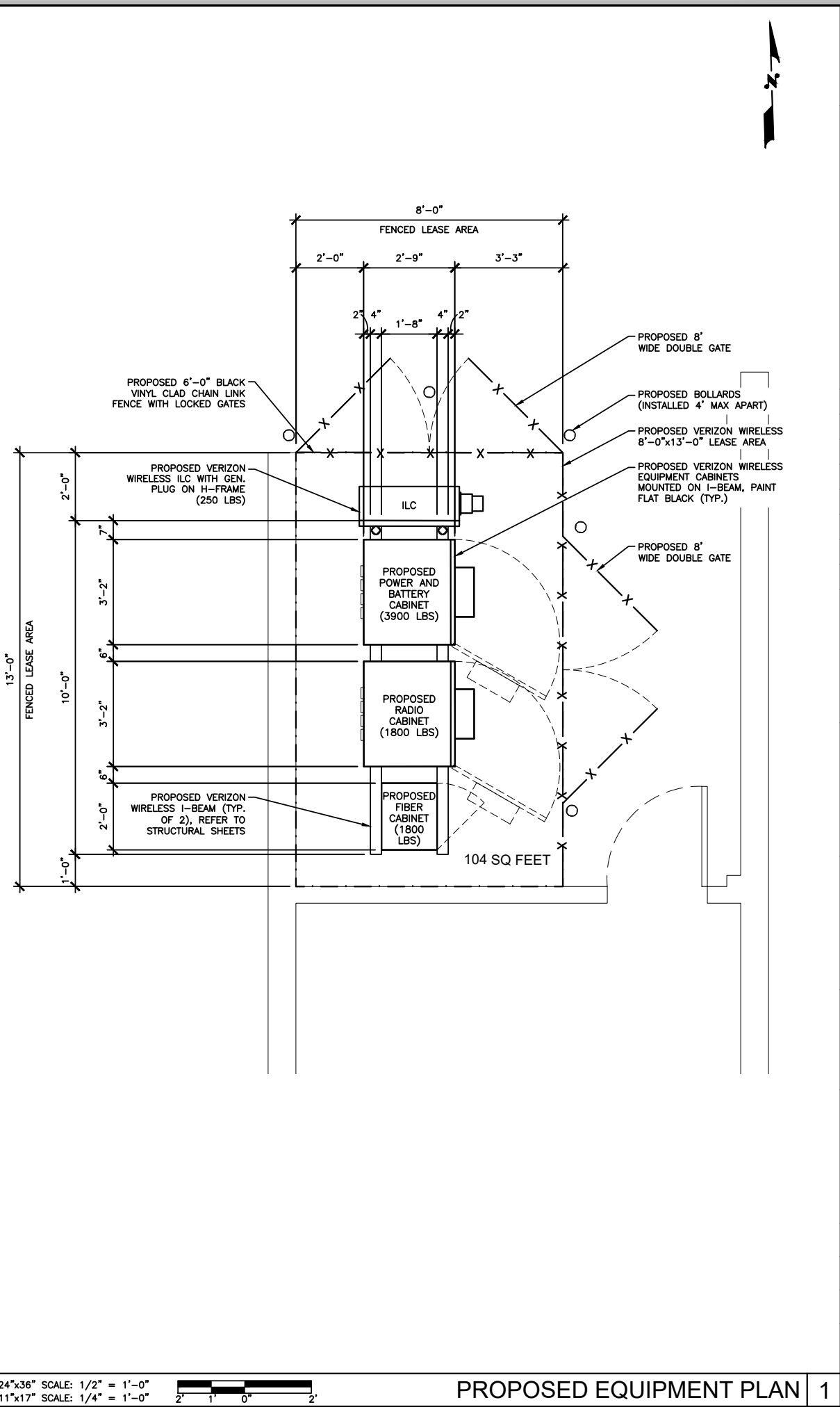
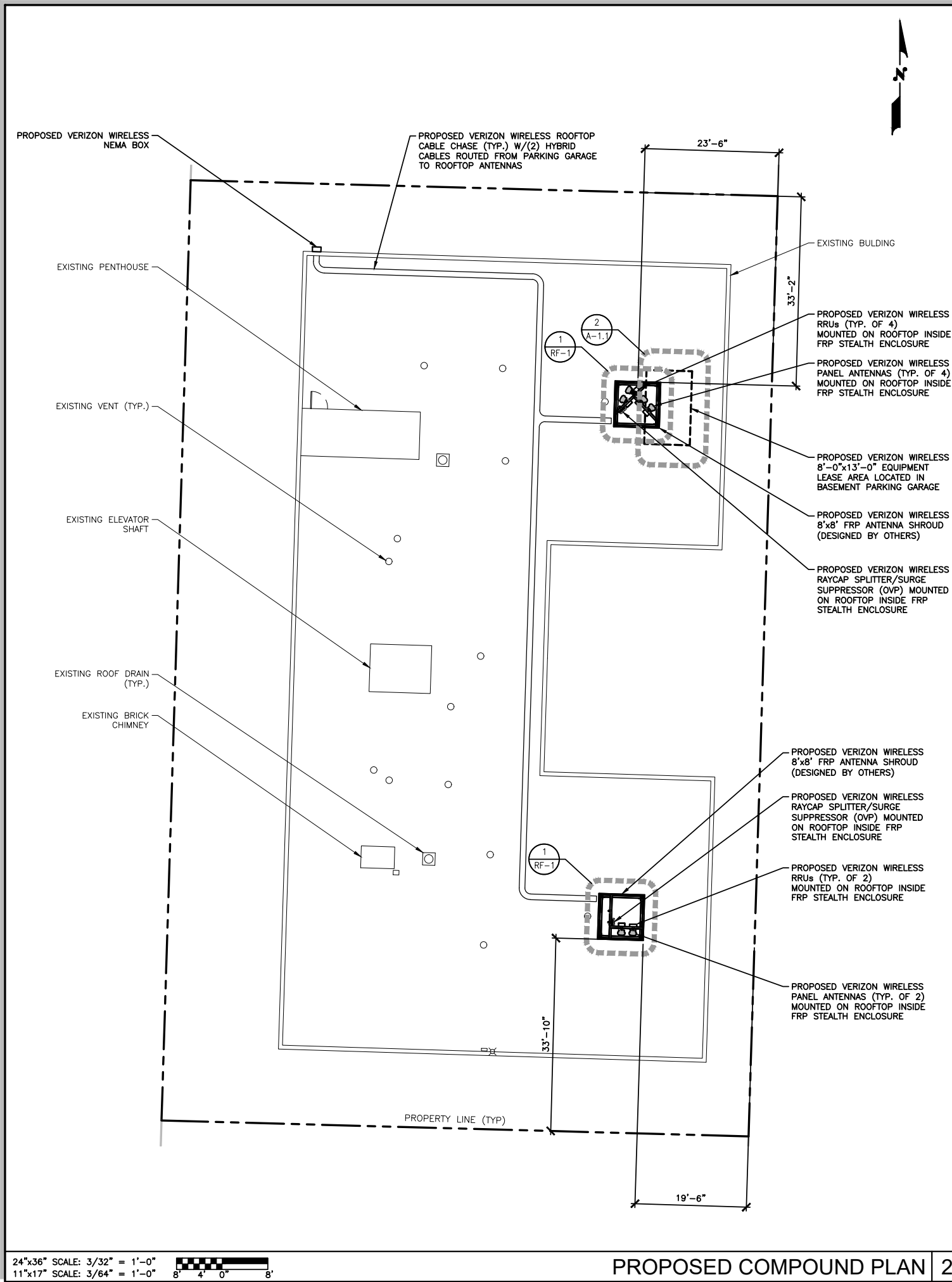
24"x36" SCALE: 1" = 20'-0"  
11"x17" SCALE: 1" = 40'-0"



Know what's below.  
Call before you dig.

SITE PLAN

1



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No.	Date	Revision

Client:

**verizon**

Implementation Team:

A&E Team:

**MORRISON HERSHFIELD**  
600 STEWART ST, SUITE 200  
SEATTLE, WA 98101  
Tel: 206.268.7370  
www.morrisonhershfield.com

Project Info:

**OLY TIVOLI**  
1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

Drawing Title:

**PROPOSED COMPOUND AND EQUIPMENT PLANS**

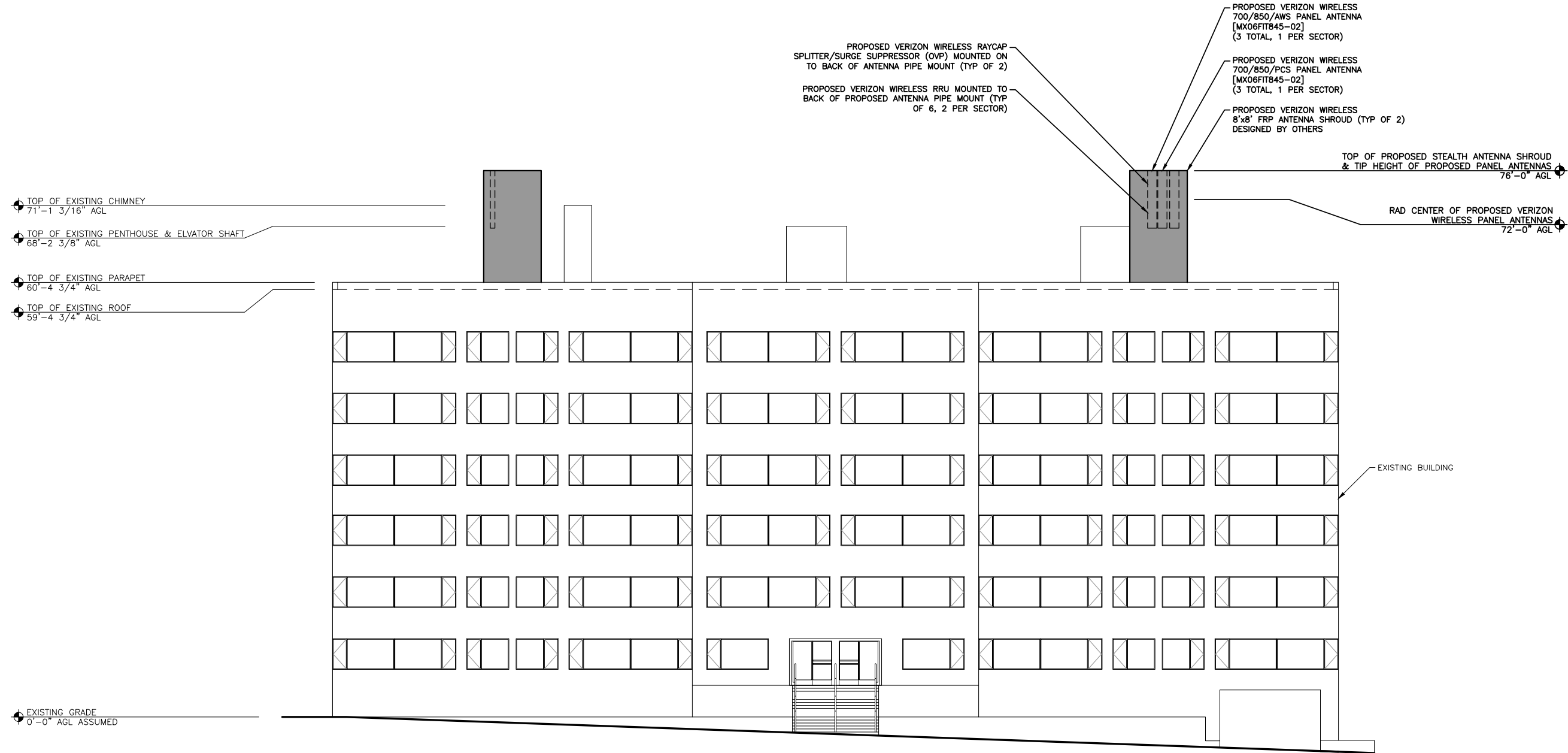
Project Number: 180096700	Start Date: 05/16/18
Drafter: RB	Designer: RB
Project Manager: LJB	Professional of Record: LC
Revision No:	Sheet No:

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NOTE:  
1. NO WORK SHALL COMMENCE WITHOUT THE APPROVED STRUCTURAL ANALYSIS REPORT SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER UNDER SEPARATE COVER. ANTENNA MOUNT DESIGN BY MANUFACTURER.  
2. ANTENNA MOUNTS SHALL COMPLY WITH NSTD-445 STANDARDS AS REQUIRED BY VERIZON.

NOTES:  
1. PROPOSED ANTENNAS, HARDWARE & COAX TO BE PAINTED TO MATCH TOWER AS REQUIRED BY JURISDICTION

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Client:



Implementation Team:

A&E Team:



Project Info:

OLY TIVOLI

1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

Drawing Title:

PROPOSED  
ELEVATION

Project Number:  
180096700

Start Date:  
05/16/18

Drafter:  
RB

Designer:  
RB

Project Manager:  
LJB

Professional of Record:  
LC

Revision No:

Sheet No:

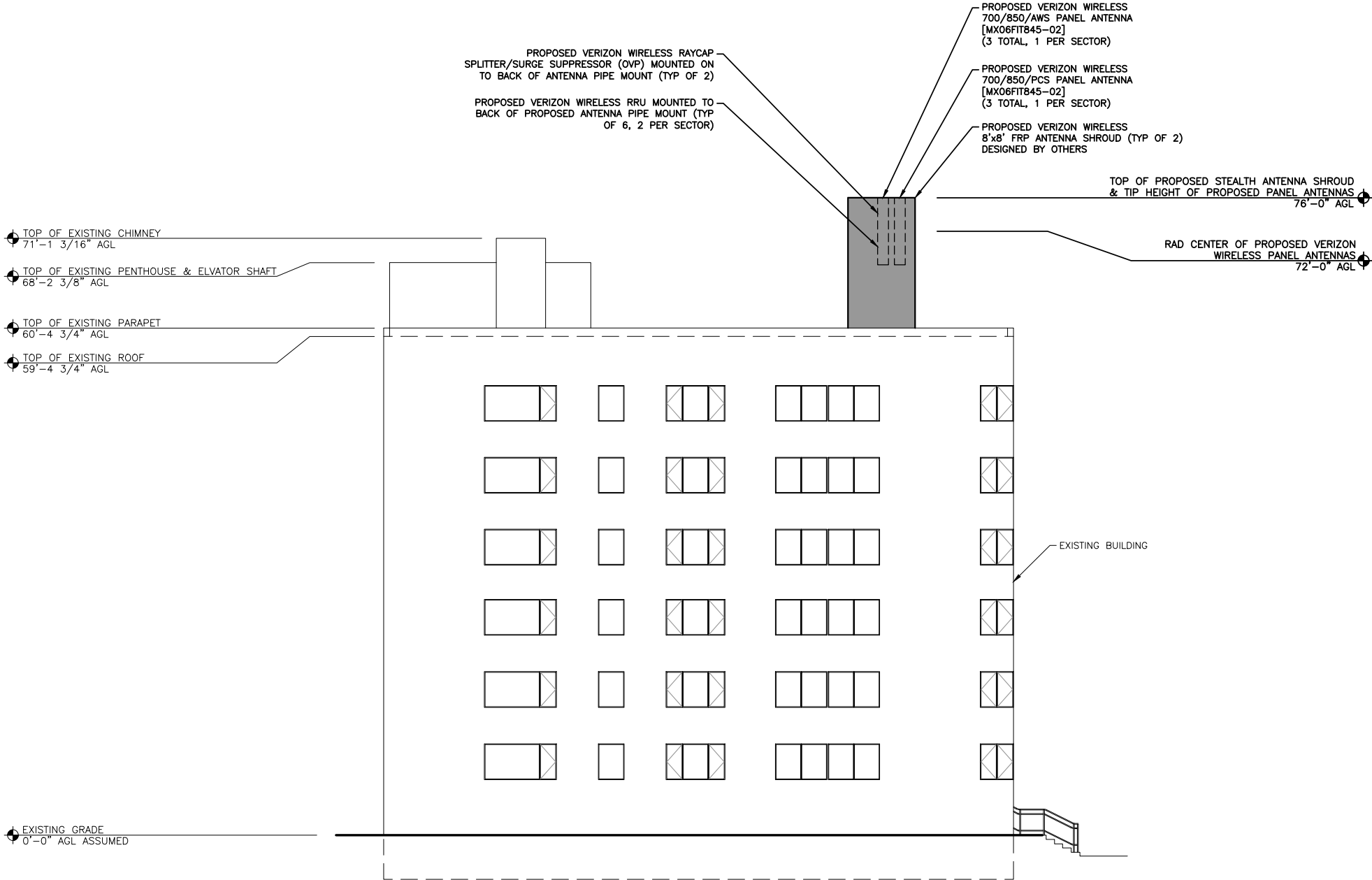
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- NOTE:
1. NO WORK SHALL COMMENCE WITHOUT THE APPROVED STRUCTURAL ANALYSIS REPORT SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER UNDER SEPARATE COVER. ANTENNA MOUNT DESIGN BY MANUFACTURER.
  2. ANTENNA MOUNTS SHALL COMPLY WITH NSTD-445 STANDARDS AS REQUIRED BY VERIZON.

- NOTES:
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Implementation Team:

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Project Info:

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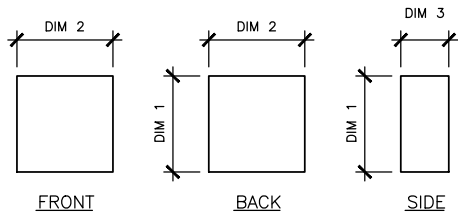
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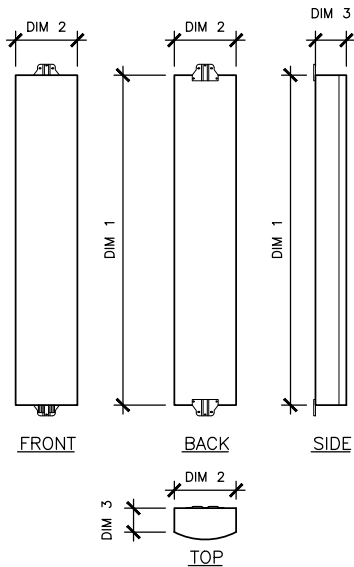
	QTY	DIM 1	DIM 2	DIM 3	WEIGHT
RRU 4449 B13/B5	3	18.0"	13.2"	9.4"	70.0 LBS
RRU 8843 B66A	3	18.0"	13.2"	11.3"	75.0 LBS

NOTES:  
1. INSTALL UNITS PER MANUFACTURER SPECIFICATIONS

24"x36" SCALE: NOT TO SCALE  
11"x17" SCALE: NOT TO SCALE

### PROPOSED RRU DIMENSIONS

4



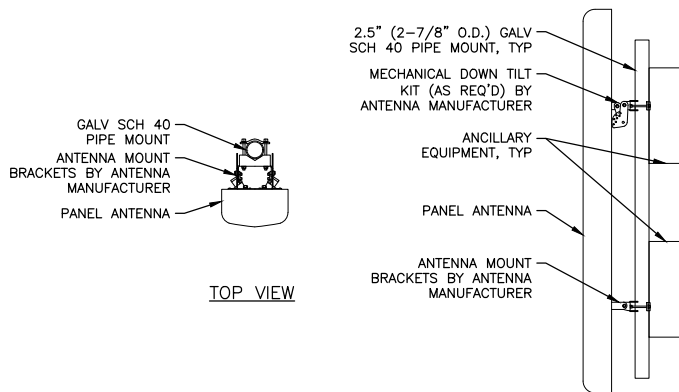
	QTY	DIM 1	DIM 2	DIM 3	WEIGHT
SECTOR ALPHA					
MX06FIT845-02	2	95.9"	15.4"	10.7"	51 LBS
SECTOR BETA					
MX06FIT845-02	2	95.9"	15.4"	10.7"	51 LBS
SECTOR GAMMA					
MX06FIT845-02	2	95.9"	15.4"	10.7"	51 LBS

NOTES:  
1. INSTALL ANTENNAS PER MANUFACTURER SPECIFICATIONS  
2. CONTRACTOR TO TORQUE ALL MOUNTING HARDWARE PER MANUFACTURER SPECIFICATIONS

24"x36" SCALE: NOT TO SCALE  
11"x17" SCALE: NOT TO SCALE

### PROPOSED ANTENNA DIMENSIONS

3



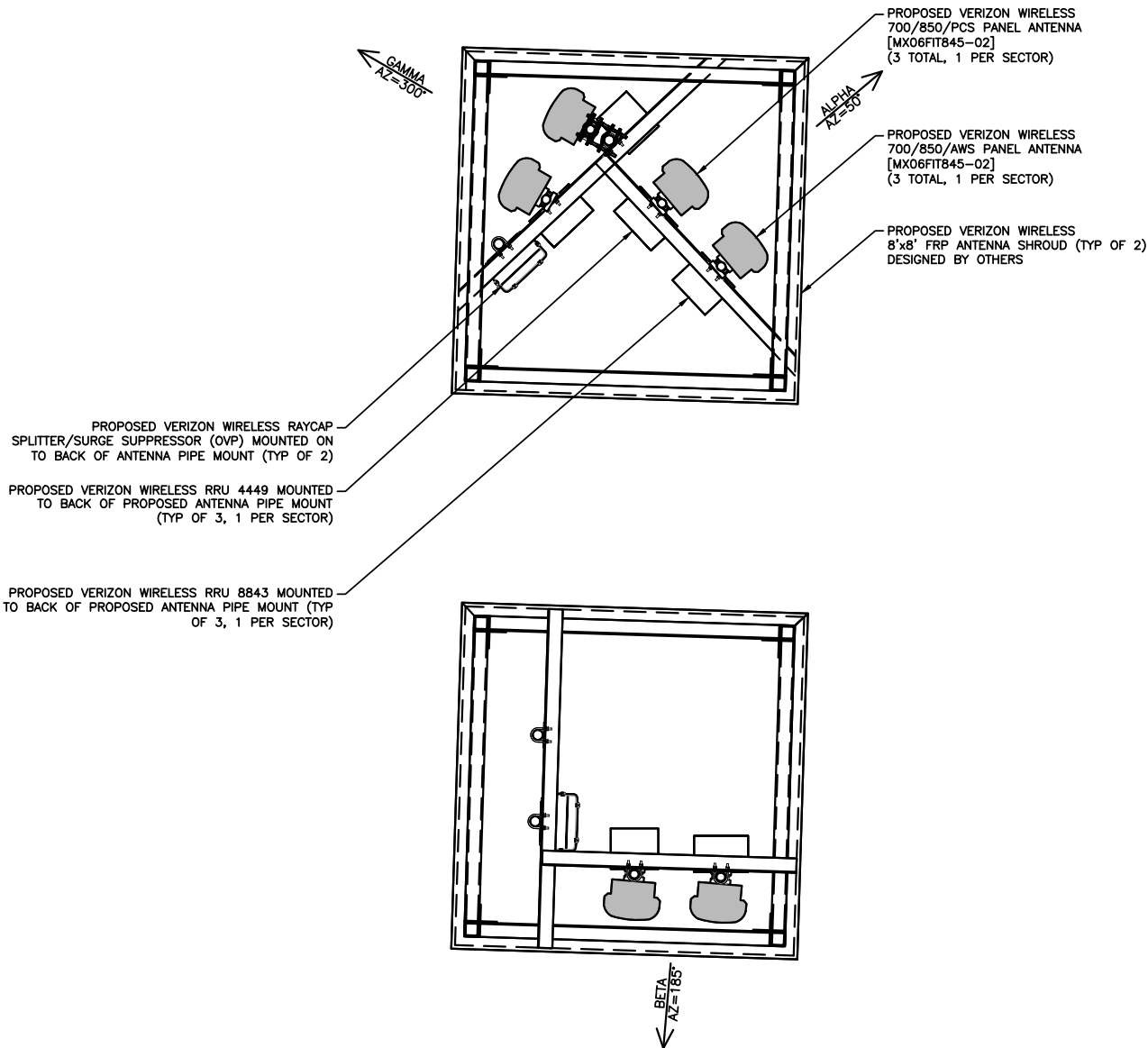
24"x36" SCALE: NOT TO SCALE  
11"x17" SCALE: NOT TO SCALE

### TYPICAL ANTENNA ATTACHMENT

2

PROPOSED ANTENNA AND COAX SCHEDULE											
SECTOR ALPHA	AZIMUTH	RAD CENTER	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	ADDITIONAL EQUIPMENT
700/850/PCS LTE	50°	72'-0"	1	JMA	MX06FIT845-02	2°	0°	1	HYBRID	250'-X"	(1) RRU 4449 (1) RRU 8843 (1) OVP
700/850/AWS LTE	50°	72'-0"	1	JMA	MX06FIT845-02	2°	0°				
SECTOR BETA	AZIMUTH	RAD CENTER/ TIP HEIGHT	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	ADDITIONAL EQUIPMENT
700/850/PCS LTE	185°	72'-0"	1	JMA	MX06FIT845-02	2°	0°	1	HYBRID	335'-0"	(1) RRU 4449 (1) RRU 8843 (1) OVP
700/850/AWS LTE	185°	72'-0"	1	JMA	MX06FIT845-02	2°	0°				
SECTOR GAMMA	AZIMUTH	RAD CENTER/ TIP HEIGHT	NUMBER OF ANTENNAS	VENDOR	MODEL	ELEC TILT	MECH DOWNTILT	NUMBER OF FEEDERS	FEEDER TYPE	FEEDER LENGTH	ADDITIONAL EQUIPMENT
700/850/PCS LTE	300°	72'-0"	1	JMA	MX06FIT845-02	2°	0°	-	-	-	(1) RRU 4449 (1) RRU 8843
700/850/AWS LTE	300°	72'-0"	1	JMA	MX06FIT845-02	2°	0°				

NOTES:  
1. ADJUST PIPE MOUNTS AS REQUIRED TO ACCOMMODATE REQUIRED ANTENNA SPACING.  
2. ANTENNA MOUNTS SHALL COMPLY WITH NSTD-445 STANDARDS AS REQUIRED BY VERIZON.  
3. PROVIDED 24" CENTER TO CENTER SPACE FOR ALL ANTENNAS



24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"

### PROPOSED ANTENNA CONFIGURATION

1

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Client:

**verizon**

Implementation Team:

A&E Team:

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Project Info:

OLY TIVOLI

1517 CAPITOL WAY S.  
OLYMPIA, WA 98501

Drawing Title:

PROPOSED  
ANTENNA  
CONFIGURATION

Project Number: 180096700	Start Date: 05/16/18
Drafter: RB	Designer: RB
Project Manager: LJB	Professional of Record: LC
Revision No:	Sheet No:

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RF-1