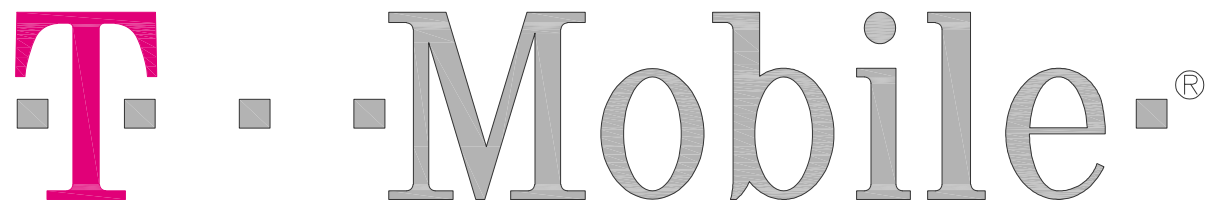


Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS MIN. PLAN SIZE 11 X 17

THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING DOCUMENTS MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.



SITE NAME: WASHINGTON STATE FAIR/LIGHT POLE  
 SITE NUMBER: SE04823C  
 SITE ADDRESS: 902 S MERIDIAN PUYALLUP, WA 98371  
 PROJECT: ANCHOR | L600

**City of Puyallup**  
 Development  
 Engineering  
 APPROVED

See permit for additional requirements.

Linda Lian  
 07/20/2022  
 9:11:47 AM

**City of Puyallup**  
 Development & Permitting Services  
 ISSUED PERMIT

Building Planning  
 Engineering Public Works  
 Fire Traffic



5628 AIRPORT WAY  
 SOUTH, SUITE 330  
 SEATTLE, WA 98108

RFDS VERSION 2

**SE04823C**  
 WASHINGTON STATE  
 FAIR/LIGHT POLE

902 S MERIDIAN  
 PUYALLUP, WA 98371  
 PIERCE COUNTY

**VICINITY MAP**

**PROJECT CONTACTS**

**APPLICANT:**  
 T-MOBILE  
 19807 NORTH CREEK PARKWAY  
 BOTHELL, WA 98011

**PROPERTY OWNER:**  
 WESTERN WASHINGTON FAIR ASSOCIATION  
 110 9TH AVE SW  
 PUYALLUP, WA 98371

**PROJECT CONSULTANT:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 PHONE: (206) 523-1941

**PROJECT CONSULTANT:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 CONTACT: KELLER HIGBEE  
 PHONE: (206) 523-1941  
 EMAIL: KHIGBEE@RYKACONSULTING.COM

**PROJECT ENGINEER:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 CONTACT: RYAN MCDANIEL, P.E.  
 PHONE: (206) 523-1941

**PERMITTING:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 CONTACT: JESSICA PIERCE  
 PHONE: (206) 523-1941  
 EMAIL: JPIERCE@RYKACONSULTING.COM

**STRUCTURAL ANALYSIS:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 CONTACT: RYAN MCDANIEL, P.E.  
 PHONE: (206) 523-1941

**CONSTRUCTION MANAGER:**  
 RYKA CONSULTING  
 5628 AIRPORT WAY S, SUITE 330  
 SEATTLE, WA 98108  
 CONTACT: SEBASTIAN LEW  
 PHONE: (206) 930-2036  
 EMAIL: SLEW@RYKACONSULTING.COM

**PROJECT DESCRIPTION**

T-MOBILE PROPOSES TO MODIFY AN EXISTING UNMANNED TELECOMMUNICATIONS FACILITY VIA THE FOLLOWING SCOPE OF WORK:

**ANTENNA WORK (LIGHT POLE):** PER RFDS VERSION 2

**REMOVED:**

- (3) PANEL ANTENNAS
- (12) TMA UNITS (4 PER SECTOR)
- (1) 10" ANTENNA PIPE MAST (PER STRUCTURAL)
- (2) 36" FRP CASITERS
- ALL EXISTING COAX & JUMPERS

**INSTALLED:**

- (3) PANEL ANTENNAS (1 PER SECTOR)
- (3) AEHC ACTIVE ANTENNA/RADIOS (1 PER SECTOR)
- (2) 48" FRP CANISTERS
- (1) 4" ANTENNA PIPE MAST (PER STRUCTURAL)
- (1) 6" FRP CANISTER
- (9) RRH UNITS (3 PER SECTOR)
- (1) RRH UNIT MOUNT
- (3) HCS 2.0 PENDANT
- (12) HCS 2.0 HYBRID FIBER JUMPERS

**RETAINED:**

- NONE

**EQUIPMENT WORK (GROUND):**

**REMOVED:**

- (1) PURCELL POWER/BATTERY CABINET W/ (1) CSR
- (1) FCOA CABINET W/ (1) AMOB W/ EXISTING RADIOS AND BASEBAND MODULES PER RFDS VERSION 2
- (6) RRH UNITS (2 PER SECTOR)
- (24) 7/8" COAX CABLES (8 PER SECTOR)
- (1) PANTROL PPC W/ GENERATOR PLUG
- (1) TELCO BOX
- (1) ROOFTOP STYLE JUNCTION BOX

**INSTALLED:**

- (1) PURCELL HPL3 POWER/SSC CABINET W/ (3) AMIA'S, BASEBAND MODULES PER RFDS VERSION 2, (1) VOLTAGE BOOSTER AND (1) NEW CSR IXRE
- PURCELL HPL3 BATTERY CABINET (4 STRINGS)
- (3) HCS 2.0 JUNCTION BOX
- (1) NEW 200A EMERSON AND CAMLOCK
- (1) AAV TELCO CUBE
- 12" WIDE ICE BRIDGE AND 24" GRIP STRUT STEP-OVER

**RETAINED:**

- (1) LEC ROUTER TO BE RELOCATED TO TELCO CUBE (UNDER SEPARATE UTILITY SCOPE, COORDINATE W/ CM)
- BASEBAND MODULES PER RFDS VERSION 2
- (1) TECH LIGHT
- (1) 200A DISCONNECT
- (1) T-MOBILE TENANT METER
- (4) 6" UNDERGROUND CONDUITS

**APPROVED PLAN**  
 CITY OF PUYALLUP  
 PLANNING DIVISION

APPROVED BY: RNBrown  
 DATE: 07/12/2022  
 CASE NO. PRCTI20220827

CONDITIONS:  
 Approved per PMC 20.590A

**City of Puyallup**  
 Building  
 REVIEWED  
 FOR  
 COMPLIANCE

DLeahy  
 06/23/2022  
 8:37:56 AM

**100% CONSTRUCTION DRAWINGS**

**DRAWING INDEX**

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A-1.1	SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	PROPOSED & EXISTING EQUIPMENT PLAN
A-4	PROPOSED SOUTH ELEVATION
A-4.1	EXISTING SOUTH ELEVATION
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S-2.1	FRP RRH UNIT CANISTER DETAILS
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S-4	STRUCTURAL DETAILS

**REVISIONS**

DRAWN BY	CHECKED	APPROVED	
RLD	NL	RM	
REV.	DATE	DESCRIPTION	BY
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD

**DRIVING DIRECTIONS**

FROM T-MOBILE REGIONAL OFFICE, BOTHELL, WA:  
 APPROX. 47 MINS (45.4 MILES)

DEPART AND HEAD (NORTHEAST) 423 FT  
 TURN RIGHT, THEN IMMEDIATELY TURN RIGHT ONTO N CREEK PKWY 0.3 MI  
 TURN RIGHT ONTO NE 195TH ST (NORTHCREEK CHEVRON ON THE CORNER) 0.3 MI  
 TAKE THE RAMP ON THE LEFT FOR I-405 SOUTH AND HEAD TOWARD RENTON 0.3 MI  
 MERGE ONTO I-405 S 21.2 MI  
 AT EXIT 2, HEAD RIGHT ON THE RAMP FOR WA-167 SOUTH TOWARD AUBURN/RAINIER AVE S 20.8 MI  
 TAKE THE RAMP ON THE RIGHT FOR WA-512 WEST AND HEAD TOWARD OLYMPIA / PUYALLUP 2.2 MI  
 TAKE THE RAMP ON THE RIGHT AND HEAD TOWARD PUYALLUP 0.2 MI  
 TURN RIGHT ONTO WA-161 / S MERIDIAN TOWARD PUYALLUP 299 FT  
 ARRIVE AT WA-161 / S MERIDIAN ON THE LEFT

ARRIVE AT: 902 S MERIDIAN, PUYALLUP, WA 98371 (47°10'53.20"N, 122°17'47.50"W)

**SITE INFORMATION**

**CODE INFORMATION:**  
 ZONING CLASSIFICATION: FAIR  
 BUILDING CODE: 2018 IBC  
 CONSTRUCTION TYPE: IIB  
 OCCUPANCY: U, S-2  
 JURISDICTION: CITY OF PUYALLUP  
 PROPOSED BUILDING USE: UNMANNED TELECOMMUNICATIONS FACILITY

**SITE LOCATION:**  
 LATITUDE: 47° 10' 53.20" N (47.181444°)  
 LONGITUDE: 122° 17' 47.50" W (-122.296528°)  
 TOP OF STRUCTURE (AGL): ±78.0' (TOP OF PROPOSED CANISTER SHROUD)  
 BASE OF STRUCTURE (AMSL): ±41.5' (AT GRADE)

**PARCEL NUMBER:** 0420331121  
**PARCEL AREA:** 50.77 ACRES (±2,211,543 SQ. FT.)

**GENERAL INFORMATION:**  
 1. PARKING REQUIREMENTS ARE UNCHANGED  
 2. TRAFFIC IS UNAFFECTED  
 3. SIGNAGE IS PROPOSED

**LEGAL DESCRIPTION**

ABBREVIATED PER ASSESSOR RECORDS.

SECTION 33 TOWNSHIP 20 RANGE 04 QUARTER 11 : NE OF NE & N 1/2 OF SE OF NE LY ELY OF 5TH ST & W OF STATE HWY LESS RDS TOG/W 1/2 5TH ST SW ABUTT VAC BY ORD 2865 EASE OF RECORD PER ETN 527237 ALSO EXC POR CYD TO CY OF PUYALLUP FOR ADD'L R/W PER ETN 4529976 OUT OF & COMB 1-000, 1-017, 1-019, 1-020, 1-031, 1-045, 1-055, 1-101, 1-103 & 1-105 (DCPPJES9-16-80) DC12/12/08JU 10668175DC 6/5/2020B8

**APPROVAL/SIGN OFF**

CONSULTANT GROUP SIGN OFF	DATE	SIGNATURE
CONSTRUCTION MANAGER		
LANDLORD'S REPRESENTATIVE		
PROJECT MANAGER		
SITE ACQUISITION		
PERMITTING		
ZONING		

REVIEWERS SHALL CLEARLY PLACE INITIALS ADJACENT TO EACH REDLINE NOTE AS DRAWINGS ARE BEING REVIEWED

03-16-2022

EXPIRES 01-09-2023

TITLE  
 TITLE SHEET

SHEET  
**T-1**

PROPRIETARY INFORMATION:  
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO T-MOBILE SERVICES IS STRICTLY PROHIBITED.

PRCTI20220827

DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON PLANS. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ADVISE ENGINEER AND CARRIER OF ANY ERRORS OR OMISSIONS.



**LIMITS OF LIABILITY:**

RYKA CONSULTING HAS MADE EVERY EFFORT TO CREATE COMPLETE AND ACCURATE CONTRACT DOCUMENTS WITH THE BEST INFORMATION AVAILABLE AT THE TIME OF THEIR COMPLETION. CONTRACTORS ARE CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE CONTRACT DOCUMENTS MAY OCCUR AND SHALL NOT EXCUSE THE CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THE DOCUMENTS. REFERENCE ADMINISTRATIVE REQUIREMENTS.

**CONTRACT DOCUMENTS:**

- 1. THE CONTRACT DOCUMENTS INCLUDE THE AGENCY APPROVED PROJECT SPECIFICATIONS, PLANS, AND THEIR LATEST REVISIONS, ADDENDA, AND CLARIFICATIONS. THE CONTRACT DOCUMENTS MAY ALSO INCLUDE NETWORK CARRIER STANDARDS FOR INSTALLATION OF TELECOMMUNICATIONS EQUIPMENT.
2. THE CONTRACTOR SHALL KEEP A MINIMUM OF ONE SET OF CONTRACT DOCUMENTS ON FILE IN THE PROJECT OFFICE AT THE JOB SITE. COPIES OF THE PROJECT DOCUMENTS USED BY SITE STAFF SHALL BE UP TO DATE WITH THE PROJECT OFFICE COPY.
3. THE CONTRACTOR SHALL NOTIFY THE PROJECT TEAM OF ANY ERRORS, OMISSIONS, AND INCONSISTENCIES FOUND IN THE CONTRACT DOCUMENTS. THE NOTIFICATION SHALL BE GIVEN BOTH VERBALLY AND IN WRITING WITHIN 24 HOURS OF DISCOVERY.
4. IF AN ERROR OR OMISSION IN THE PROJECT DOCUMENTS REQUIRES RECTIFICATION, THE CONTRACTOR SHALL SUBMIT A PROPOSAL TO THE PROJECT TEAM TO RECTIFY THE ISSUE. THE PROPOSAL MUST BE APPROVED PRIOR TO WORK.
5. THE CONTRACT DRAWINGS ARE PREPARED TO SCALE WITH THE BEST KNOWLEDGE OF THE SITE GIVEN TO RYKA CONSULTING. WHERE DIMENSIONS ARE NOT SHOWN IN THE DRAWINGS, THE CONTRACTOR SHOULD CLARIFY WITH THE PROJECT TEAM WHEN THE INFORMATION IS CRITICAL TO PROPER INSTALLATION.
6. THE CONTRACTOR SHALL DOCUMENT ALL CHANGES AND SUBSTITUTIONS ON THE PROJECT OFFICE COPY OF THE CONTRACT DOCUMENTS.
7. WHEN FABRICATION OF STRUCTURAL ITEMS ARE REQUIRED, IT MAY BE NECESSARY TO SUBMIT SHOP DRAWINGS FOR REVIEW BY RYKA CONSULTING. SEE STRUCTURAL NOTES.
8. DEFERRED SUBMITTALS ARE REQUIRED FOR MATERIALS TO BE PROVIDED BY THE CONTRACTOR. WHERE MATERIALS IN THE PLANS ARE DESIGNATED AS PROVIDED BY CONTRACTOR, THE CONTRACTOR SHALL SUBMIT THE PREFERRED MATERIAL TO THE PROJECT TEAM FOR REVIEW AND APPROVAL PRIOR TO WORK.

**ADMINISTRATIVE REQUIREMENTS:**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED (INCLUDING FEES) TO COMPLETE THE WORK DESCRIBED BY THE CONSTRUCTION DOCUMENTS.
2. PRIOR TO BIDDING, THE CONTRACTOR IS RESPONSIBLE FOR REVIEW OF THE PROJECT SITE AND CONTRACT DOCUMENTS TO UNDERSTAND THE DESIGN AND CONDITIONS AFFECTING THE WORK TO BE PERFORMED. ANY ERRORS, OMISSIONS, AND DISCREPANCIES MUST BE SUBMITTED TO THE PROJECT TEAM VERBALLY AND IN WRITING.
3. THE CONTRACTOR SHALL PROVIDE A WARRANTY FOR WORK FOR A PERIOD OF ONE YEAR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND SHALL REMEDY ALL FAULTY, INFERIOR, AND/OR IMPROPER MATERIALS, DAMAGED GOODS, AND/OR FAULTY WORKMANSHIP. ALL ROOFING AND WATERPROOFING MUST BE WARRANTED FOR A PERIOD OF TWO YEARS. THE PERIOD BEGINS AT SUBSTANTIAL COMPLETION OF THE PROJECT.
4. THE CONTRACTOR SHALL PROVIDE A COPY OF LICENSE AND INSURANCE TO THE TELECOMMUNICATIONS CARRIER.

**SITE SAFETY:**

- 1. THE CONTRACTOR SHALL PROVIDE OSHA COMPLIANT PROTECTION FOR THE SAFETY OF THE SITE STAFF AT ALL TIMES DURING THE CONSTRUCTION OF THE PROJECT.
2. CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM DIRT AND DEBRIS. SURFACES SHALL BE CLEANED OF GREASE, PAINT, OR OTHER MATERIALS NOT SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
3. THE CONTRACTOR IS TO PROVIDE PROTECTION FOR ADJOINING PROPERTIES FROM PHYSICAL HARM, NOISE, DUST, DIRT, AND FIRE AS REQUIRED BY THE GOVERNING AGENCIES. THE CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ANY DAMAGE.
4. THE CONTRACTOR IS RESPONSIBLE FOR THE SECURITY OF THE PROJECT SITE AREA.
5. WHERE WORK REQUIRES OPEN HAZARDS TO SITE STAFF, THE HAZARD SHALL BE TEMPORARILY MITIGATED TO OSHA STANDARD UNTIL THE HAZARD IS CLOSED.
6. SEE STRUCTURAL NOTES.

**UTILITY REQUIREMENTS:**

- 1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES.
2. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO WORK.
3. CONTRACTOR TO PROTECT, REPLACE AND/OR REROUTE ANY EXISTING UTILITIES ENCOUNTERED DURING THE COURSE OF WORK.

**SPECIAL CONSIDERATIONS FOR WEATHERPROOFING:**

- 1. ALL PENETRATIONS TO EXISTING STRUCTURES MUST BE SEALED WITH APPROVED WEATHERPROOFING. IF WEATHERPROOFING IS OMITTED, CONTACT THE PROJECT TEAM FOR CLARIFICATION OR PROVIDE A WEATHERPROOFING PROPOSAL FOR APPROVAL.
2. CONTRACTOR SHALL COORDINATE WITH OWNER AND THE EXISTING ROOFING CONTRACTOR OF RECORD FOR ANY AUGMENTATION TO THE ROOF MEMBRANE, AND HAVING THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S EXISTING WARRANTY.

**WORK REQUIREMENTS:**

- 1. ALL WORK MUST BE PERFORMED DURING THE OWNERS PREFERRED HOURS.
2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
3. ALL WORK PERFORMED ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. SEE STRUCTURAL NOTES.
4. IF INSPECTION OF WORK IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE INSPECTION ENTITY 24 HOURS IN ADVANCE OF THE WORK TO BE PERFORMED.
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH UTILITY AGENCIES PRIOR TO WORK WITH UTILITIES. REFERENCE UTILITIES SECTION.
6. THE CONTRACTOR SHALL COORDINATE ON-SITE STORAGE WITH OWNER IN ADVANCE OF WORK. PERMITS MAY BE REQUIRED FOR STORAGE ON PUBLIC RIGHT OF WAY.
7. ALL NEW CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION IN FORM, TEXTURE, FINISH, AND IN MATERIALS EXCEPT AS NOTED IN THE CONSTRUCTION DOCUMENTS.
8. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING WORK FROM DAMAGE DURING THE COURSE OF WORK FOR THIS PROJECT.
9. THE CONTRACTOR SHALL PROVIDE WORK WHICH IS LEVEL, PLUMB, AND WITHIN TOLERANCES SPECIFIED BY CODES AND STANDARDS INCLUDED IN THE STRUCTURAL NOTES.
10. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
11. ANY SUBSTITUTIONS OF MATERIALS MUST BE APPROVED BY THE PROJECT TEAM IN WRITING.
12. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS INCIDENTAL TO THE WORK DESCRIBED BY THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR MUST RESTORE ALL PORTIONS OF THE PROJECT SITE TO IT'S PRE-WORK CONDITION. WHERE THE WORK PERFORMED DOES NOT ALLOW FOR PRE-WORK RESTORATION, WORK AREAS MUST BE REPAIRED OR REPLACED TO MATCH EXISTING FINISH AND SITE GRADING.
14. THE CONTRACTOR IS RESPONSIBLE FOR ALL DISPOSAL OF DEBRIS AND ITEMS WHICH ARE SPECIFIED TO BE REMOVED IN THE COURSE OF WORK.

**CAST-IN PLACE CONCRETE:**

- 1. ALL CONCRETE DESIGN DESCRIBED BY THIS SET OF DRAWINGS IS BASED ON ACI 318
2. ALL STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. UNLESS SPECIFIED OTHERWISE.
3. EACH CONCRETE MIX DESIGN SHALL HAVE A CYLINDER TEST HISTORY OF 60 DAYS MINIMUM, TESTED IN ACCORDANCE WITH ASTM C39, TESTED BY AN ACI CERTIFIED STRENGTH TESTING TECHNICIAN, AND THE STRENGTH STATISTICALLY DETERMINED IN ACCORDANCE WITH ACI 318. EACH MIX DESIGN USED ON SITE SHALL BE SUBMITTED TO, AND RECEIVED BY THE PROJECT TEAM BEFORE THE CONCRETE IS PLACED ON SITE.
4. RAW MATERIALS, MANUFACTURE, AND DELIVERY TO THE FORMWORK SHALL BE IN ACCORDANCE WITH ASTM C94 AND ACI 318.
5. EMBEDDED ITEMS ARE TO BE SECURELY FASTENED SO THAT THEY DO NOT MOVE DURING PLACEMENT OF THE CONCRETE. REFERENCE THE REINFORCING STEEL SECTION.
6. TWO CYLINDERS SHALL BE TAKEN FOR EACH LOAD DELIVERED TO THE FORMWORK. SAMPLES ARE TO BE TAKEN FROM THE CONCRETE AS IT IS PLACED IN THE FORMWORK IN ACCORDANCE WITH ASTM C172. CYLINDERS ARE TESTED PER ASTM C39 AND TESTED BY AN ACI CERTIFIED CSIT. CONCRETE SAMPLES ARE TO BE TESTED FOR AIR CONTENT AND WATER CEMENT RATIO. ALL TEST RESULTS ARE SUBMITTED TO THE PROJECT TEAM WITHIN ONE MONTH OF PLACING THE CONCRETE ON SITE.
7. WHEN AMBIENT TEMPERATURES FALL BELOW 55 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 306. WHEN AMBIENT TEMPERATURES RISE ABOVE 90 DEGREES FAHRENHEIT, THE CONTRACTOR SHALL FOLLOW GUIDELINES DESCRIBED IN ACI 305. THE CONCRETE SHALL BE PROTECTED FROM FREEZING OR FROM EXCESSIVE HEAT WITH TENTS OR BLANKETS TO PROVIDE FOR HEAT OR MOISTURE LOSS.
8. ALL CONCRETE SHALL BE PLACED AS CLOSE TO PRACTICAL TO THE FINAL DESTINATION IN THE FORM. CONCRETE SHALL NOT BE PLACED FROM A HEIGHT GREATER THAN 6 FEET FROM THE POINT OF DISCHARGE.
9. VIBRATION SHALL BE USED TO CONSOLIDATE CONVENTIONAL CONCRETE. EXTERNAL STINGER VIBRATORS SHALL BE INSERTED VERTICALLY INTO FORMS EVERY 36 INCHES MAXIMUM AND FOR EACH LIFT. STINGER VIBRATORS SHALL BE INSERTED TO A VERTICAL DEPTH OF 12 INCHES INTO PREVIOUS LIFTS TO ENSURE CONSOLIDATION. FOLLOW GUIDELINES USED IN ACI 309R.
10. REPAIRS FOR MINOR DEFECTS MAY BE ADMINISTERED BY AN EXPERIENCED CRAFTSMAN WITHOUT AN APPROVED PROCEDURE. A MINOR DEFECT INCLUDES BUG HOLES, HONEYCOMBING, CHIPS, AND SPALLS THAT DO NOT EXCEED 1/2 INCH OF DEPTH INTO THE FACE OF THE CONCRETE. MAJOR REPAIRS EXTENDING BEYOND 1/2 INCH OF DEPTH AND UP TO THE REINFORCING MAY BE REPAIRED WITH AN APPROVED REPAIR PROCEDURE. REPAIR PROCEDURES MAY BE SUBMITTED TO THE PROJECT TEAM FOR APPROVAL IN ADVANCE OF FIELD WORK. DAMAGE EXTENDING BEYOND STEEL REINFORCING REQUIRES A RETROFIT DESIGN OR IS REJECTED.
11. SEE ARCHITECTURAL NOTES FOR CONCRETE FINISH REQUIREMENTS

**EXISTING STRUCTURES:**

- 1. THE EXISTING FRAMING IS REPRODUCED FROM THE LATEST INFORMATION PROVIDED. SOME FRAMING AND MATERIALS ENCOUNTERED AT THE TIME OF CONSTRUCTION MAY VARY FROM THAT SHOWN IN THE PLANS. IF THE PLAN CONDITION VARIES FROM THE AS-BUILT CONDITION, THE CONTRACTOR SHOULD CONSULT THE PROJECT TEAM FOR A REVISED DETAIL OR DIRECTION TO PROCEED.

**ABBREVIATIONS:**

Table with 4 columns: Abbreviation, Description, Abbreviation, Description. Includes terms like AIR CONDITIONING, ABOVE GROUND LEVEL, ABOVE MEAN SEA LEVEL, APPROXIMATELY, AMERICAN WIRE GAGE, BARE COPPER WIRE, BUILDING BLOCKING, CLEAR COAXIAL CABLE, CONCRETE CONSTRUCTION, CONTINUOUS, DIAMETER DRAWING, EACH ELEVATION, ELECTRICAL EQUAL EQUIPMENT, EXTERIOR, FINISH FLUORESCENT FLOOR, FOOT FIBER-REINFORCED POLYMER, GAUGE GALVANIZED GENERAL CONTRACTOR GLOBAL POSITIONING SYSTEM, GROUND, HORIZONTAL HOUR, HEIGHT HEATING VENTILATION AIR CONDITIONING, INSIDE DIAMETER, INCH INFORMATION, INSULATION INTERIOR, INTERNATIONAL BUILDING CODE, POUNDS LOCATION MEASUREMENT UNIT, LONG TERM EVOLUTION.

**CONCRETE SLABS ON GRADE:**

- 1. SLAB-ON-GRADE CONSTRUCTION SHALL BE SUPPORTED ON A 6 INCH LAYER OF CLEAN 3/4 INCH MINUS SUBGRADE COMPACTED TO A DENSITY OF NO LESS THAN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557). SUBGRADE SHALL BE SUPPORTED ON UNDISTURBED NATIVE SOIL OR PROPERLY PLACED AND COMPACTED STRUCTURAL FILL.
2. INTERIOR SLABS-ON-GRADE SHALL BE CAST OVER A 4 MIL VAPOR BARRIER.
3. PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE. JOINTS ARE TO BE INSTALLED AT 14 TO 16 FEET ON CENTER EACH WAY MAXIMUM UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ALL SAW CUT JOINTS IN CONCRETE SLABS ARE TO BE MADE WITH AN EARLY CUT SAW AS SOON AS POSSIBLE AFTER POURING BUT NO LATER THAN ONE HOUR AFTER FINISHING.
4. PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS/SPREAD FOOTINGS. JOINTS SHALL BE FORMED BY INSERTING PREFORMED JOINT FILLER FOR THE FULL DEPTH OF THE SLAB.
5. PROTECT CONCRETE FROM DAMAGE OR REDUCED STRENGTH DUE TO COLD OR HOT WEATHER IN ACCORDANCE WITH ACI 305 AND 306. CONTRACTOR SHALL TAKE SPECIAL CURING PRECAUTIONS TO MINIMIZE SHRINKAGE CRACKING OF CONCRETE SLABS.
6. THE CONTRACTOR SHALL TAKE CARE THAT HEAVY EQUIPMENT AND AREAS USED FOR STAGING DO NOT AND DAMAGE SLABS ON GRADE. DAMAGED SLABS ON SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
7. CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 2,500 PSI. UNLESS SPECIFIED OTHERWISE.

**CONCRETE OR MASONRY ANCHORAGE:**

- 1. EXPANSION BOLTS INTO CONCRETE SHALL BE "KWIK BOLT TZ" AS MANUFACTURED BY THE HILTI CORP., INSTALLED IN STRICT ACCORDANCE WITH ICC-ES REPORT ESR-1917. SPECIAL INSPECTION IS REQUIRED. EXPANSION ANCHORS EXPOSED TO WEATHER SHALL BE STAINLESS STEEL.

**REINFORCING STEEL:**

- 1. ALL DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE.
2. REINFORCING BARS SHALL BE DEFORMED AND CONFORM TO ASTM A615 OR A706, GRADE 60. REINFORCING TIE WIRE MAY BE GRADE 40.
3. REINFORCING STEEL SPICES SHALL BE 40 BAR DIAMETERS OR TWO TRANSVERSE WIRE SPACINGS FOR WIRE MATS.
4. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI 318.
5. NO.5 OR LARGER REINFORCING BARS SHALL NOT BE RE-BENT WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
6. WELDING OF REBAR IS NOT ALLOWED WITHIN THE MIDDLE THIRD OF THE BAR LENGTH. WELDING OF REBAR IS CONDUCTED IN ACCORDANCE WITH AWS D1.4. USE ONLY ASTM A706 REINFORCING.
7. WIRE REINFORCING CONFORMS TO ASTM A82 OR A185.
8. CONCRETE COVER FOR REINFORCING STEEL CONFORMS TO ACI 318.

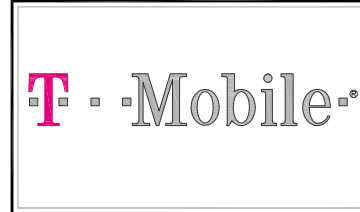
**LEGEND:**

Legend table with symbols and descriptions: SUBJECT BOUNDARY LINE, ADJACENT BOUNDARY LINE, SECTIONAL BREAKDOWN LINE, RIGHT-OF-WAY CENTERLINE, RIGHT-OF-WAY LINE, COAX CABLE LINE, FIBER OPTIC CABLE LINE, OVERHEAD POWER LINE, OVERHEAD TELEPHONE LINE, BURIED POWER LINE, BURIED GAS LINE, BURIED TELEPHONE LINE, BURIED WATER LINE, BURIED SANITARY SEWER, BURIED STORM DRAIN, DITCH LINE/FLOW LINE, VEGETATION LINE, CHAIN LINK FENCE, WOOD FENCE, BARBED WIRE/WIRE FENCE, TRANSFORMER, LIGHT STANDARD, POWER VAULT, UTILITY BOX, UTILITY POLE, POLE GUY WIRE, GAS VALVE, GAS METER, TELEPHONE VAULT, TELEPHONE-RISER, FIRE HYDRANT, GATE VALVE, WATER METER, FIRE STAND PIPE, CATCH BASIN, TYPE I, CATCH BASIN, TYPE II, SIGN, BOLLARD, MAIL BOX, SPOT ELEVATION.

Legend table with symbols and descriptions: REVISION, GRID REFERENCE, DETAIL REFERENCE, ELEVATION REFERENCE, SECTION REFERENCE.

City of Puyallup Development & Permitting Services ISSUED PERMIT. Building, Planning, Engineering, Public Works, Fire, Traffic.

Know what's below. CALL before you dig. 811. DIG ALERT washington811.com. CALL AT LEAST TWO WORKING DAYS BEFORE YOU DIG.



RYKA CONSULTING 5628 AIRPORT WAY SOUTH, SUITE 330 SEATTLE, WA 98108

RFDS VERSION 2 SE04823C WASHINGTON STATE FAIR/LIGHT POLE 902 S MERIDIAN PUYALLUP, WA 98371 PIERCE COUNTY

REVISIONS table with columns: REV., DATE, DESCRIPTION, BY. Includes entries for 01/21/22 and 03/16/22.

Professional Engineer seal for RYAN MCDANIEL, STATE OF WASHINGTON, 40630, REGISTERED PROFESSIONAL ENGINEER, EXPIRES 01-09-2023.

TITLE GENERAL NOTES

SHEET G-1

PROPRIETARY INFORMATION: THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO T-MOBILE SERVICES IS STRICTLY PROHIBITED.

PARCEL#: 0420331121  
 PROPERTY OWNER:  
 WESTERN WASHINGTON FAIR ASSOCIATION  
 110 9TH AVE SW  
 PUYALLUP, WA 98371

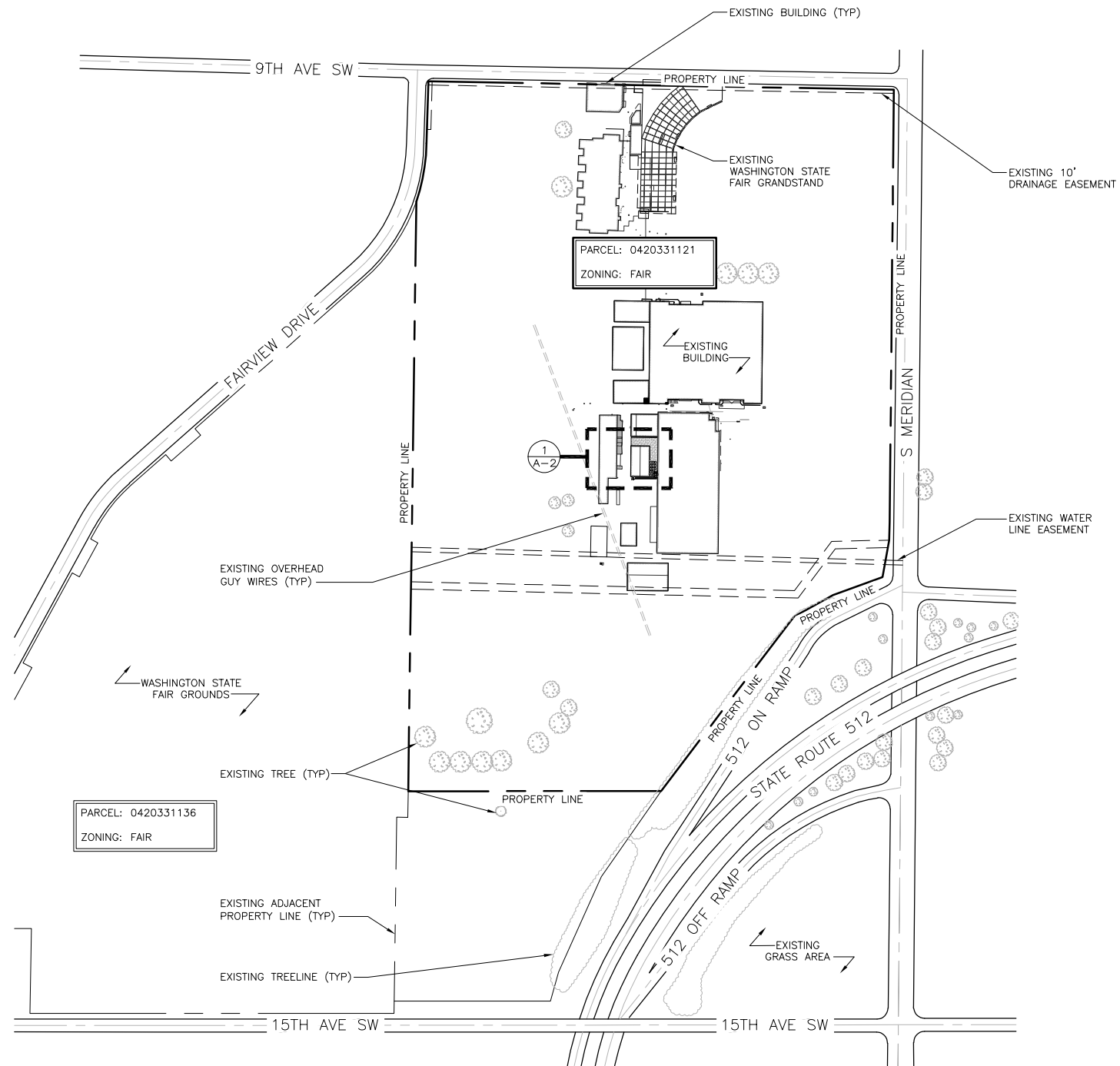
SITE ADDRESS:  
 902 S MERIDIAN  
 PUYALLUP, WA 98371

LEGAL DESCRIPTION:  
 ABBREVIATED PER ASSESSOR RECORDS.

SECTION 33 TOWNSHIP 20 RANGE 04 QUARTER 11 : NE OF NE & N  
 1/2 OF SE OF NE LY ELY OF 5TH ST & W OF STATE HWY LESS RDS  
 TOG/W 1/2 5TH ST SW ABUTT VAC BY ORD 2865 EASE OF RECORD  
 PER ETN 527237 ALSO EXC POR CYD TO CY OF PUYALLUP FOR ADD'L  
 R/W PER ETN 4529976 OUT OF & COMB 1-000, 1-017, 1-019,  
 1-020, 1-031, 1-045, 1-055, 1-101, 1-103 & 1-105  
 (DCPPJES9-16-80) DC12/12/08JU 10668175DC 6/5/2020BB

PARCEL AREA:  
 50.77 ACRES (±2,211,543 SQ. FT.)

NOTE:  
 THIS IS NOT A SITE SURVEY. ALL  
 PROPERTY LINES AND BOUNDARIES  
 ARE TAKEN FROM AN EXISTING PARCEL  
 VIEWER AND ARE APPROXIMATE.



5628 AIRPORT WAY  
 SOUTH, SUITE 330  
 SEATTLE, WA 98108

RFDS VERSION 2

# SE04823C

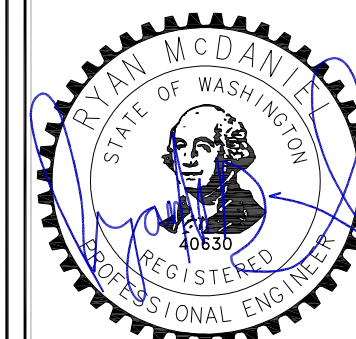
## WASHINGTON STATE FAIR/LIGHT POLE

902 S MERIDIAN  
 PUYALLUP, WA 98371  
 PIERCE COUNTY

### REVISIONS

DRAWN BY		CHECKED		APPROVED	
RLD		NL		RM	
REV.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD		
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD		

03-16-2022



EXPIRES 01-09-2023

TITLE  
 SITE PLAN

SHEET

# A-1

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 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

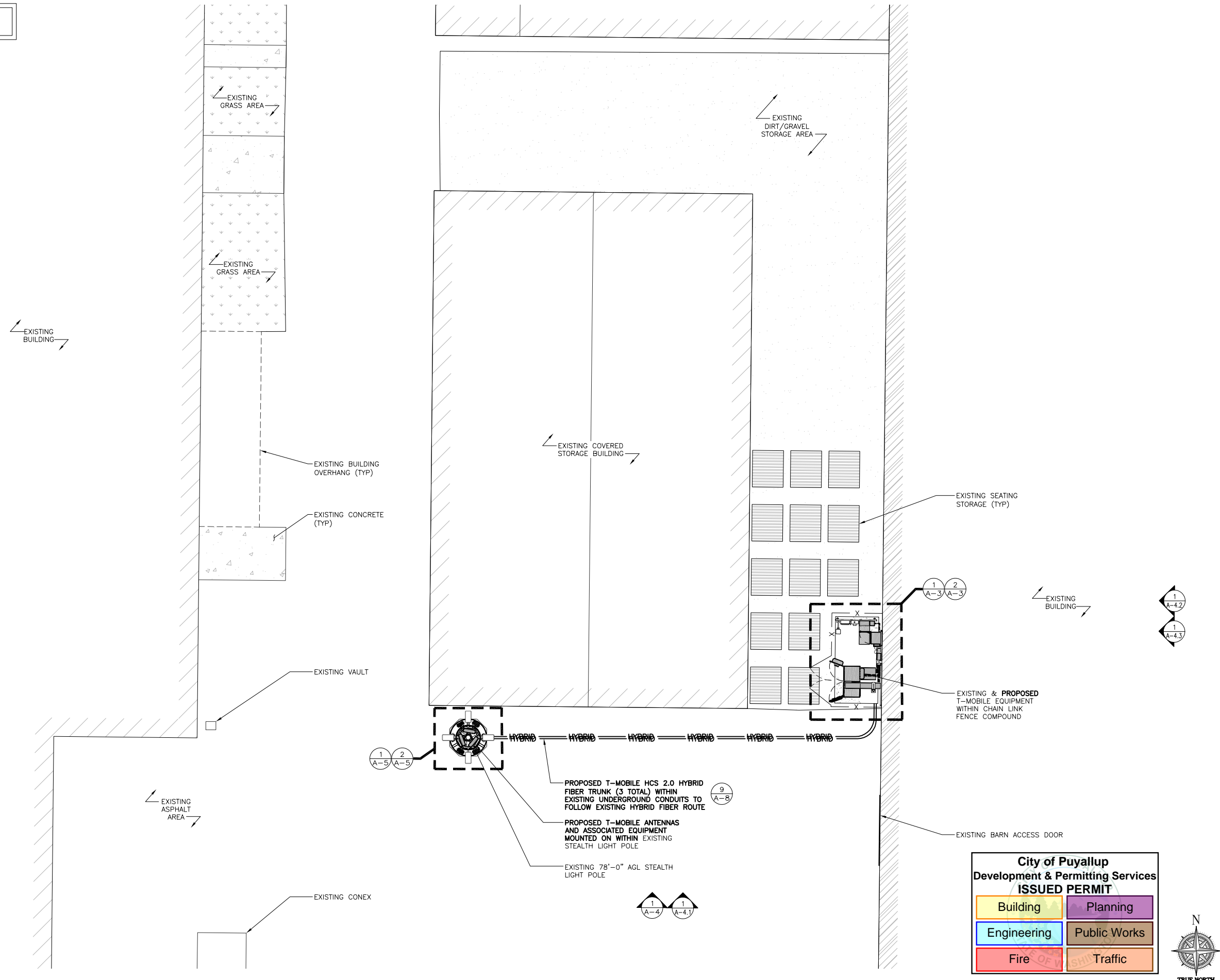


24"x36" SCALE: 1" = 200'-0"  
 11"x17" SCALE: 1" = 400'-0"

SITE PLAN 1

PRCT120220827

NOTE:  
ONLY PROPOSED CONFIGURATION  
SHOWN IN THIS VIEW FOR CLARITY.



24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
4' 2' 0' 4'

**City of Puyallup**  
Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic



ENLARGED SITE PLAN 1



5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

**SE04823C**  
WASHINGTON STATE  
FAIR/LIGHT POLE

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

**REVISIONS**

REV.	DATE	DESCRIPTION	BY
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03-16-2022

EXPIRES 01-09-2023

TITLE  
ENLARGED SITE PLAN

SHEET  
**A-2**

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PRCT120220827





5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

# SE04823C

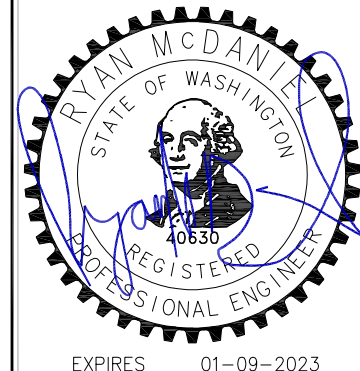
## WASHINGTON STATE FAIR/LIGHT POLE

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

### REVISIONS

REV.	DATE	DESCRIPTION	BY
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD

03-16-2022



TITLE  
PROPOSED & EXISTING  
EQUIPMENT PLAN

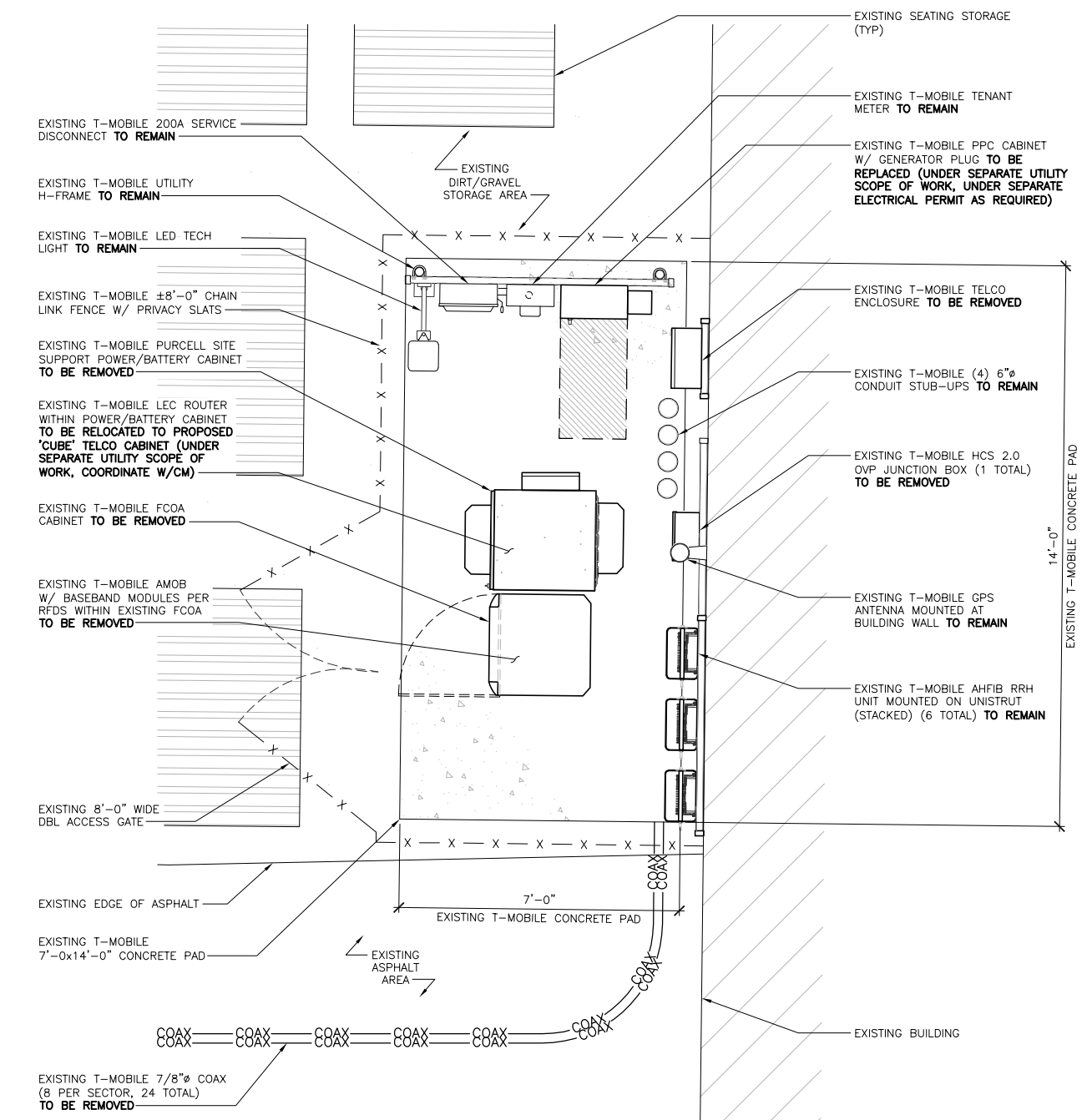
SHEET  
**A-3**

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**City of Puyallup**  
Development & Permitting Services  
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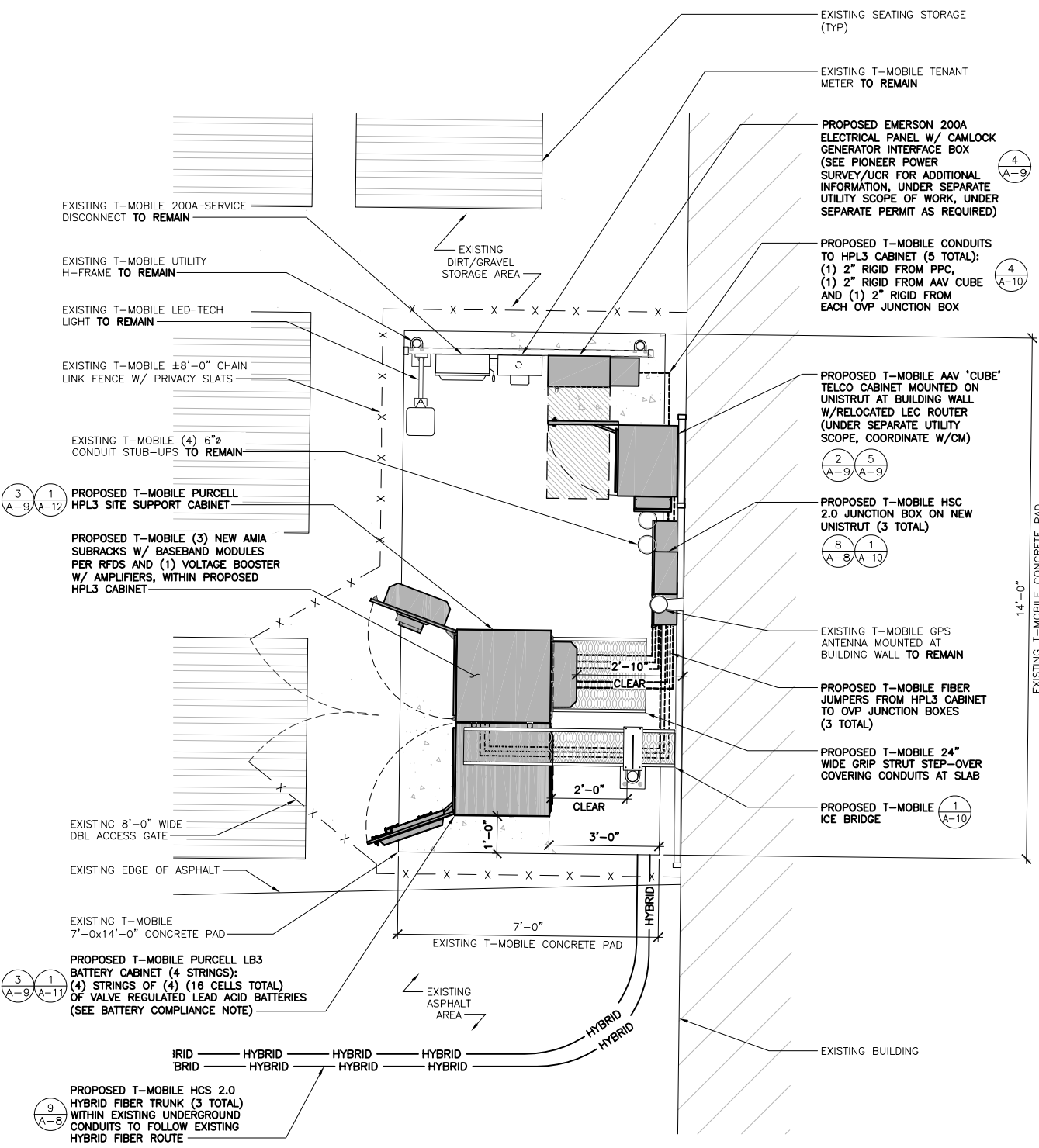
Building	Planning
Engineering	Public Works
Fire	Traffic

**BATTERY COMPLIANCE NOTE**  
PROPOSED FINAL BATTERY CONFIGURATION TO CONSIST OF (16) LEAD ACID BATTERIES.  
**2015 IFC COMPLIANCE:** EACH BATTERY CONTAINS 2.34 GALLONS OF ELECTROLYTE FOR A TOTAL VOLUME OF 34.44 GALLONS. AS THE TOTAL ELECTROLYTE VOLUME DOES NOT EXCEED 50 GALLONS, COMPLIANCE WITH 2015 IFC SECTION 608 IS NOT REQUIRED.  
**2018 IFC COMPLIANCE:** EACH BATTERY IS RATED AT 2.28 KWH (12VX190AH/1000) FOR A TOTAL OF 36.48KWH. AS THIS DOES NOT EXCEED THE 70KWH THRESHOLD LISTED IN TABLE 1206.2 OF THE 2018 INTERNATIONAL FIRE CODE, COMPLIANCE WITH 2018 IFC SECTIONS 1206.2.1 THROUGH 1206.2.12.6 IS NOT REQUIRED.



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

EXISTING EQUIPMENT PLAN 2



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

PROPOSED EQUIPMENT PLAN 1

PRCT120220827

- NOTES:
1. VERIFICATION THAT THE PROPOSED MOUNTS CAN SUPPORT ALL PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER.
  2. STRUCTURAL ANALYSIS AND DESIGN TO BE PERFORMED PRIOR TO FCD COMPLETION.
  3. PROPOSED FRP CANISTERS TO BE PAINTED TO MATCH THE EXISTING LIGHT POLE.

City of Puyallup  
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Building	Planning
Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
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RFDS VERSION 2

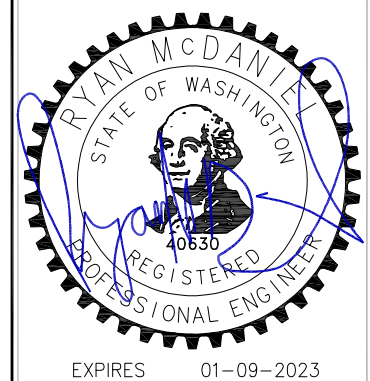
**SE04823C**  
WASHINGTON STATE  
FAIR/LIGHT POLE

902 S MERIDIAN  
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PIERCE COUNTY

REVISIONS

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03-16-2022

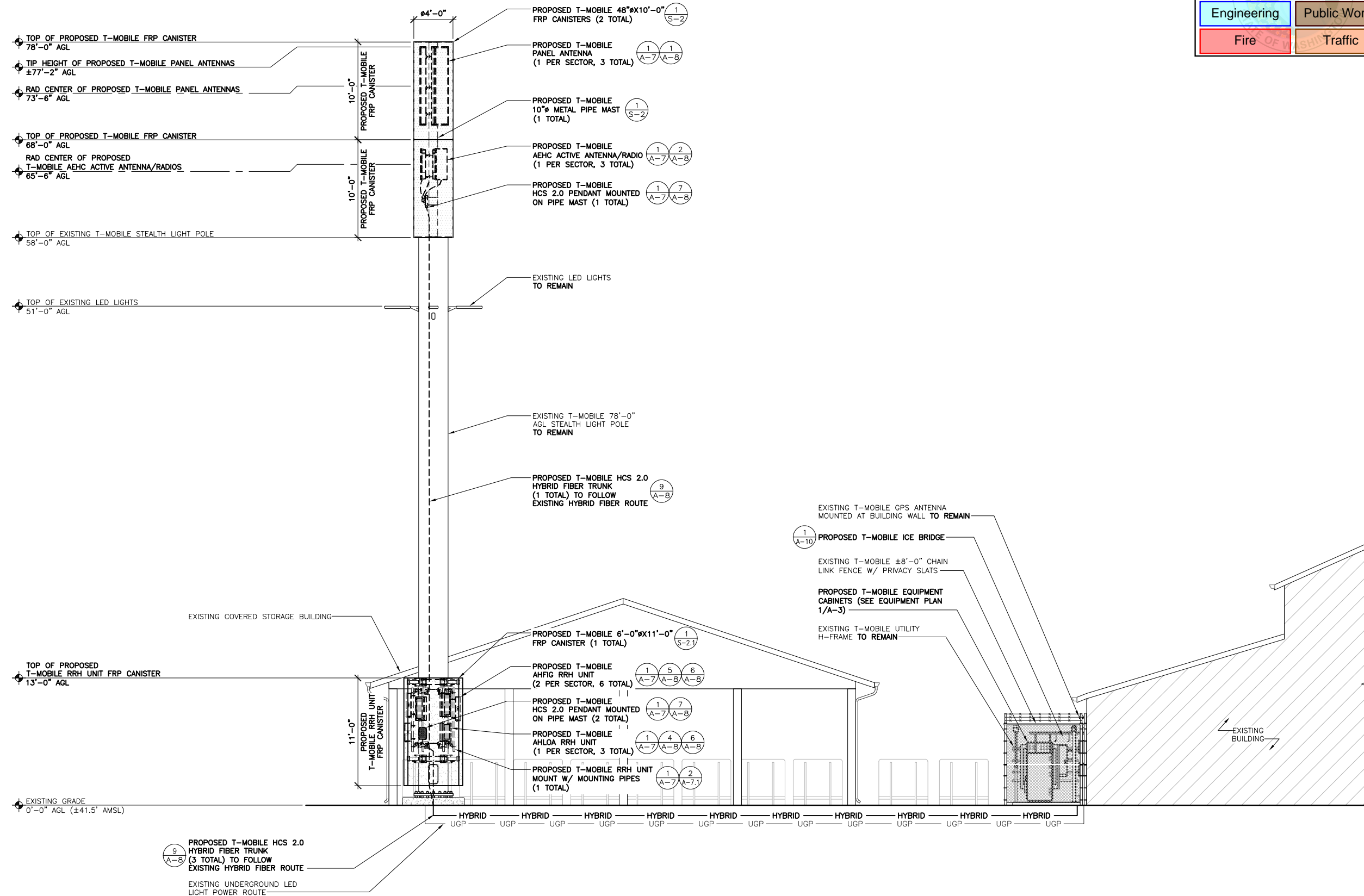


TITLE  
PROPOSED SOUTH ELEVATION

SHEET

**A-4**

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City of Puyallup  
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Building	Planning
Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

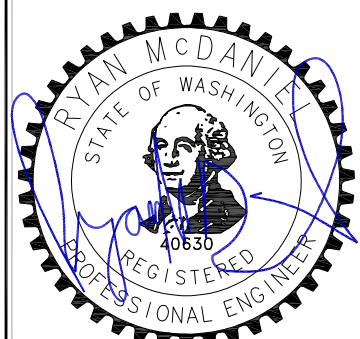
**SE04823C**  
**WASHINGTON STATE**  
**FAIR/LIGHT POLE**

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

**REVISIONS**

REV.	DATE	DESCRIPTION	BY
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0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD

03-16-2022



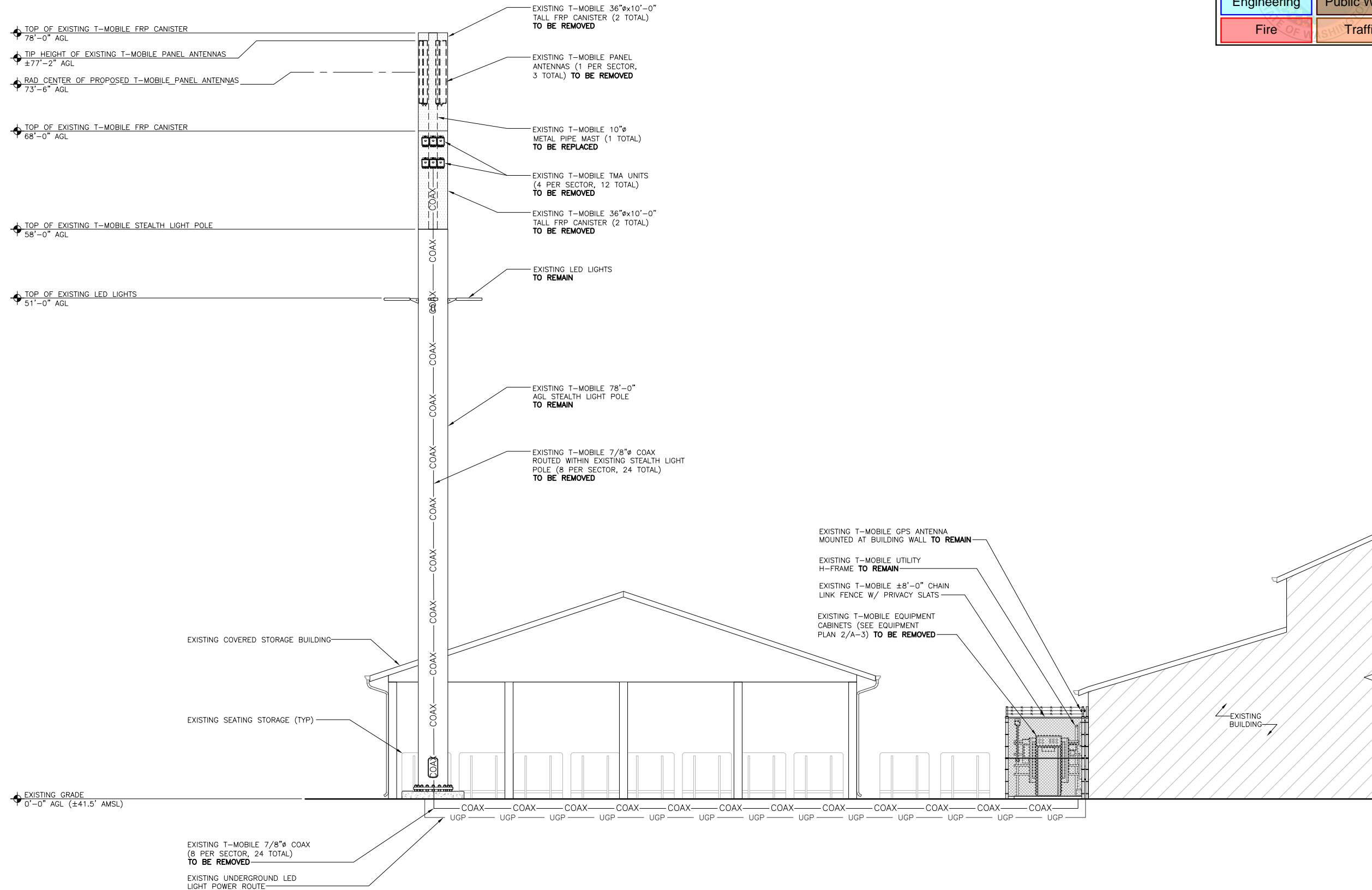
EXPIRES 01-09-2023

TITLE  
EXISTING SOUTH ELEVATION

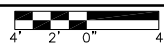
SHEET

**A-4.1**

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24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"



- NOTES:
1. VERIFICATION THAT THE PROPOSED MOUNTS CAN SUPPORT ALL PROPOSED LOADING SHALL BE PERFORMED BY A REGISTERED STRUCTURAL ENGINEER.
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  3. PROPOSED FRP CANISTERS TO BE PAINTED TO MATCH THE EXISTING LIGHT POLE.

City of Puyallup  
Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic



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RFDS VERSION 2

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WASHINGTON STATE  
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03-16-2022



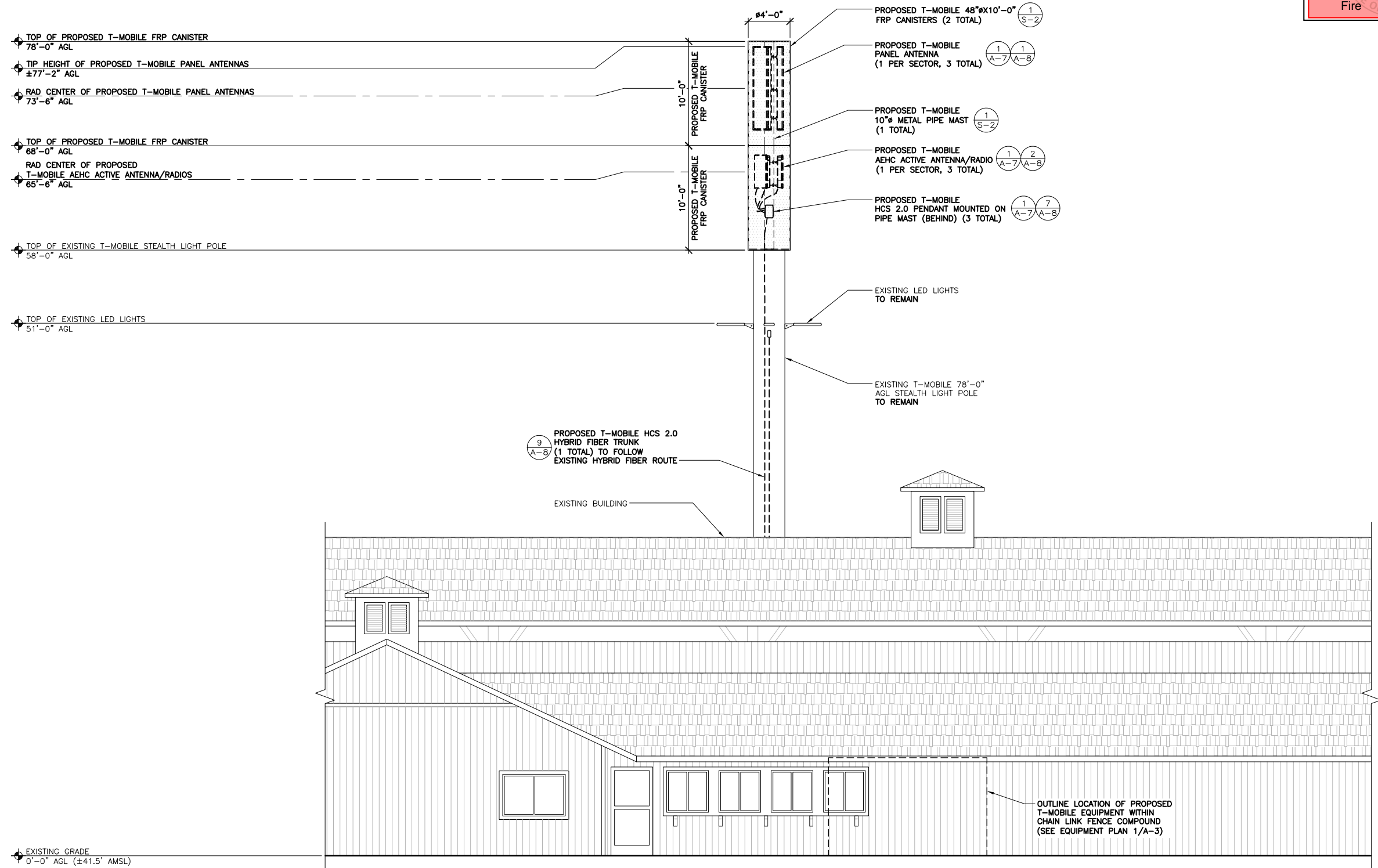
EXPIRES 01-09-2023

TITLE  
PROPOSED EAST ELEVATION

SHEET

**A-4.2**

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EXISTING GRADE  
0'-0" AGL (±41.5' AMSL)

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"

PROPOSED EAST ELEVATION 1

PRCT120220827



**City of Puyallup**  
**Development & Permitting Services**  
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Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
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RFDS VERSION 2

**SE04823C**  
**WASHINGTON STATE**  
**FAIR/LIGHT POLE**

902 S MERIDIAN  
 PUYALLUP, WA 98371  
 PIERCE COUNTY

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03-16-2022



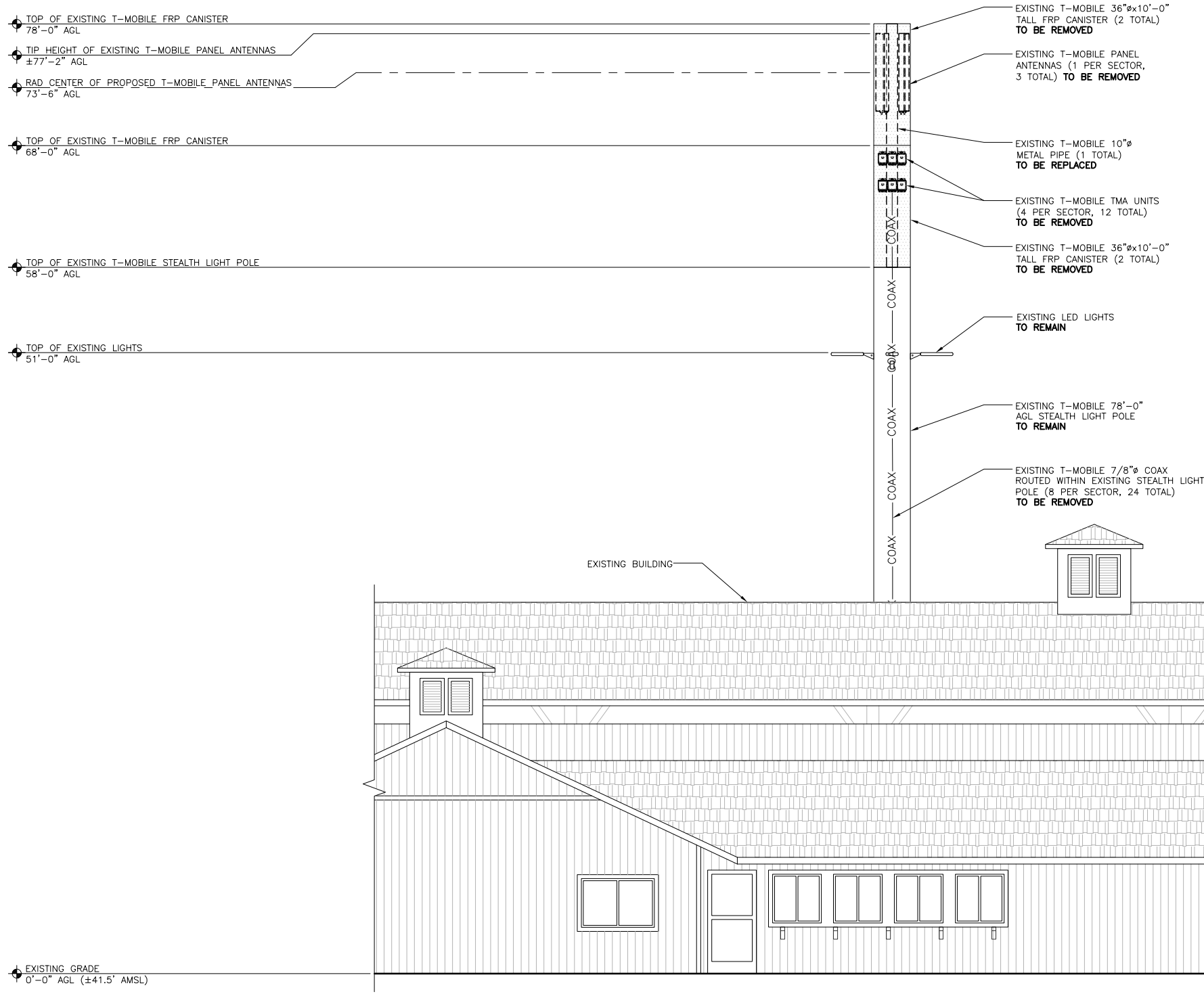
EXPIRES 01-09-2023

TITLE  
 EXISTING EAST ELEVATION

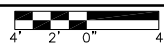
SHEET

**A-4.3**

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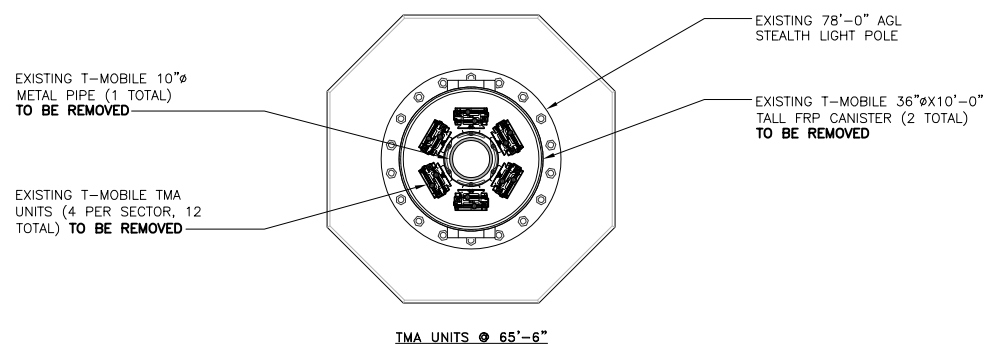
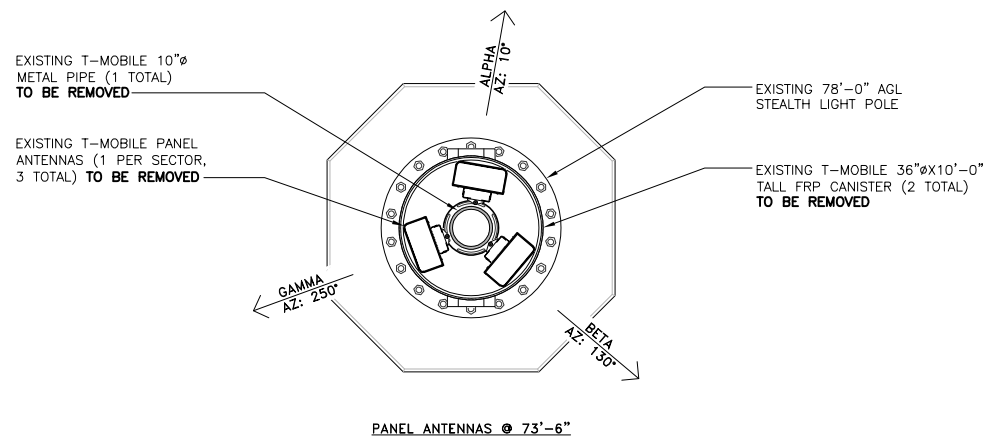


24"x36" SCALE: 3/16" = 1'-0"  
 11"x17" SCALE: 3/32" = 1'-0"



**City of Puyallup**  
Development & Permitting Services  
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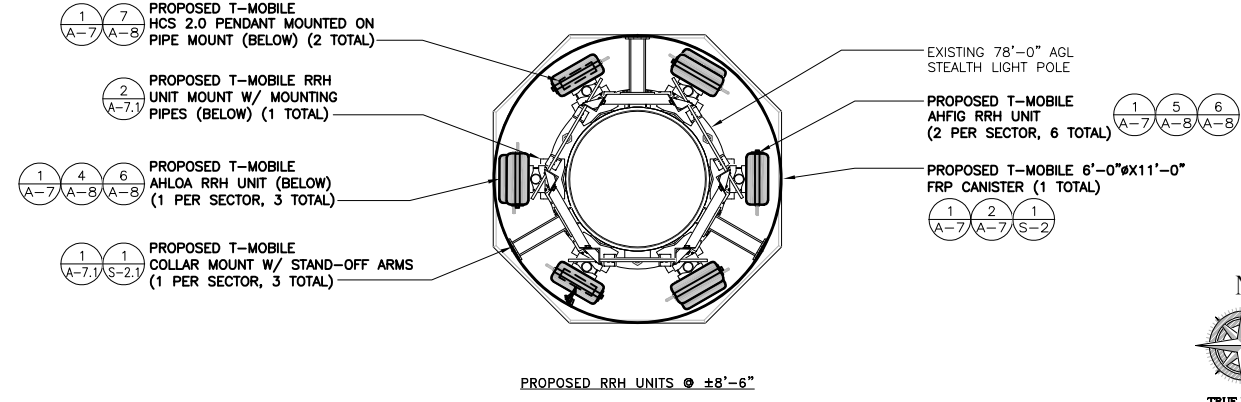
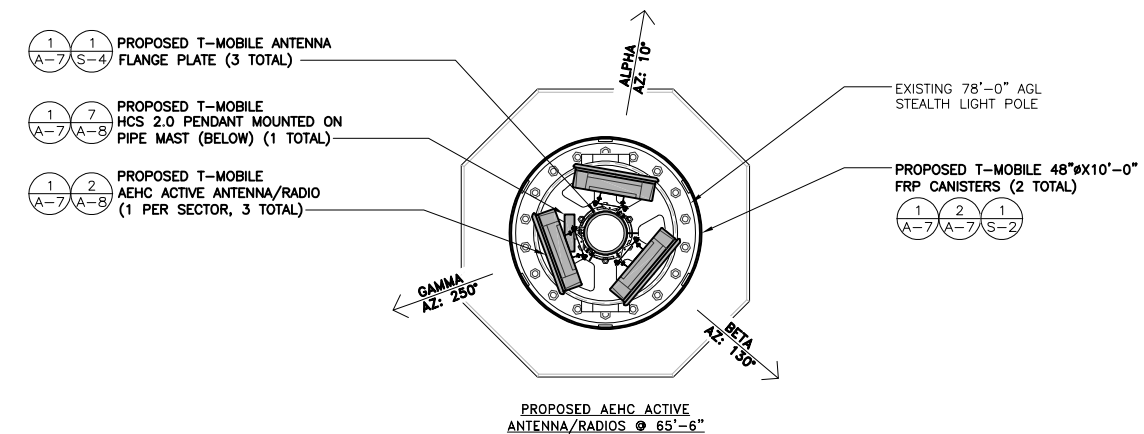
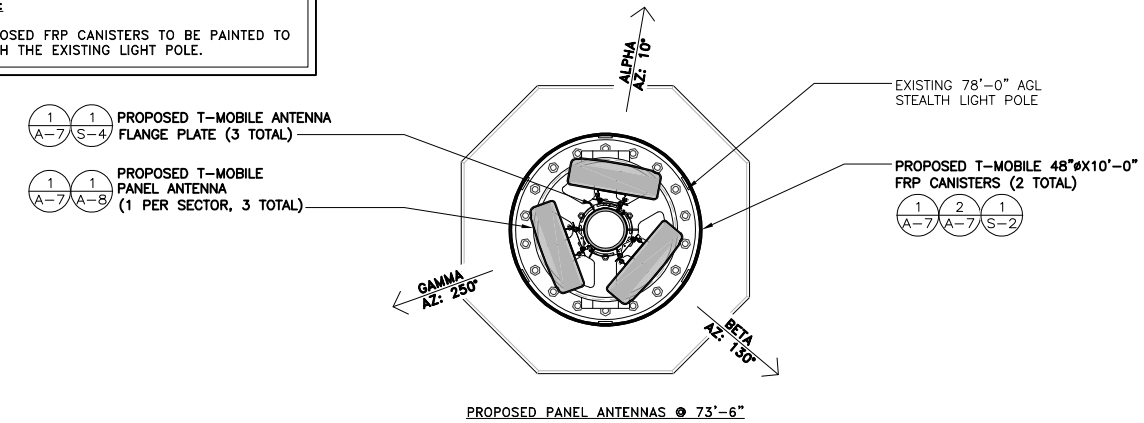
Building	Planning
Engineering	Public Works
Fire	Traffic



**PROPOSED ANTENNA CONFIGURATION AND SCHEDULE** RFDS VERSION 2

ALPHA/DELTA	AZIMUTH	RAD CENTER	MANUFACTURER	MODEL	NUMBER OF FEEDERS	FEEDER TYPE	HYBRID CABLE	TMA	DIPLEXERS	RRH	RRH LOCATION	
1	10°	73'-6"	ROSENBERGER	2D4WHE-21 (MULTI-BEAM)	3	HCS 2.0 HYBRID JUMPER	(3) HCS 2.0 HYBRID TRUNK CABLE	-	-	(1) AHLOA	TOP	
										(2) AHFIG	TOP	
2	10°	65'-6"	NOKIA	AEHC ACTIVE ANTENNA/RADIO	1	HCS 2.0 HYBRID JUMPER		-	-	-	-	
										-	-	
BETA/EPSILON	AZIMUTH	RAD CENTER	MANUFACTURER	MODEL	NUMBER OF FEEDERS	FEEDER TYPE			TMA	DIPLEXERS	RRH	RRH LOCATION
1	130°	73'-6"	ROSENBERGER	2D4WHE-21 (MULTI-BEAM)	3	HCS 2.0 HYBRID JUMPER		(3) HCS 2.0 HYBRID TRUNK CABLE	-	-	(1) AHLOA	TOP
							(2) AHFIG				TOP	
2	130°	65'-6"	NOKIA	AEHC ACTIVE ANTENNA/RADIO	1	HCS 2.0 HYBRID JUMPER	-		-	-	-	
										-	-	
GAMMA/ZETA	AZIMUTH	RAD CENTER	MANUFACTURER	MODEL	NUMBER OF FEEDERS	FEEDER TYPE			TMA	DIPLEXERS	RRH	RRH LOCATION
1	250°	73'-6"	ROSENBERGER	2D4WHE-21 (MULTI-BEAM)	3	HCS 2.0 HYBRID JUMPER	(3) HCS 2.0 HYBRID TRUNK CABLE		-	-	(1) AHLOA	TOP
								(2) AHFIG			TOP	
2	250°	65'-6"	NOKIA	AEHC ACTIVE ANTENNA/RADIO	1	HCS 2.0 HYBRID JUMPER		-	-	-	-	
										-	-	

**NOTE:**  
PROPOSED FRP CANISTERS TO BE PAINTED TO MATCH THE EXISTING LIGHT POLE.



5628 AIRPORT WAY  
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SEATTLE, WA 98108

RFDS VERSION 2

**SE04823C**  
WASHINGTON STATE  
FAIR/LIGHT POLE

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

**REVISIONS**

REV.	DATE	DESCRIPTION	BY
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD



TITLE  
PROPOSED & EXISTING  
ANTENNA CONFIGURATIONS

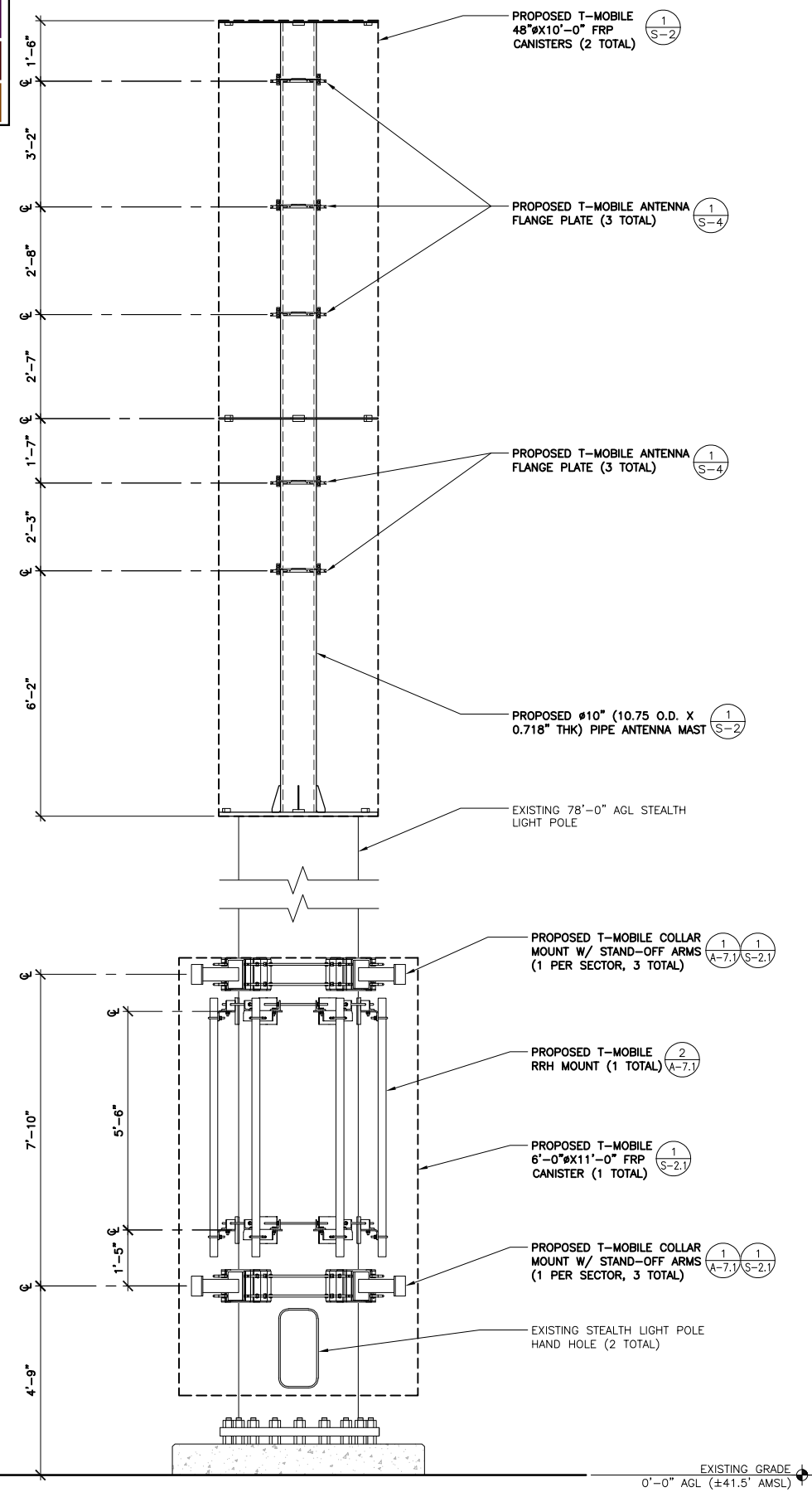
SHEET  
**A-5**

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PRCT120220827

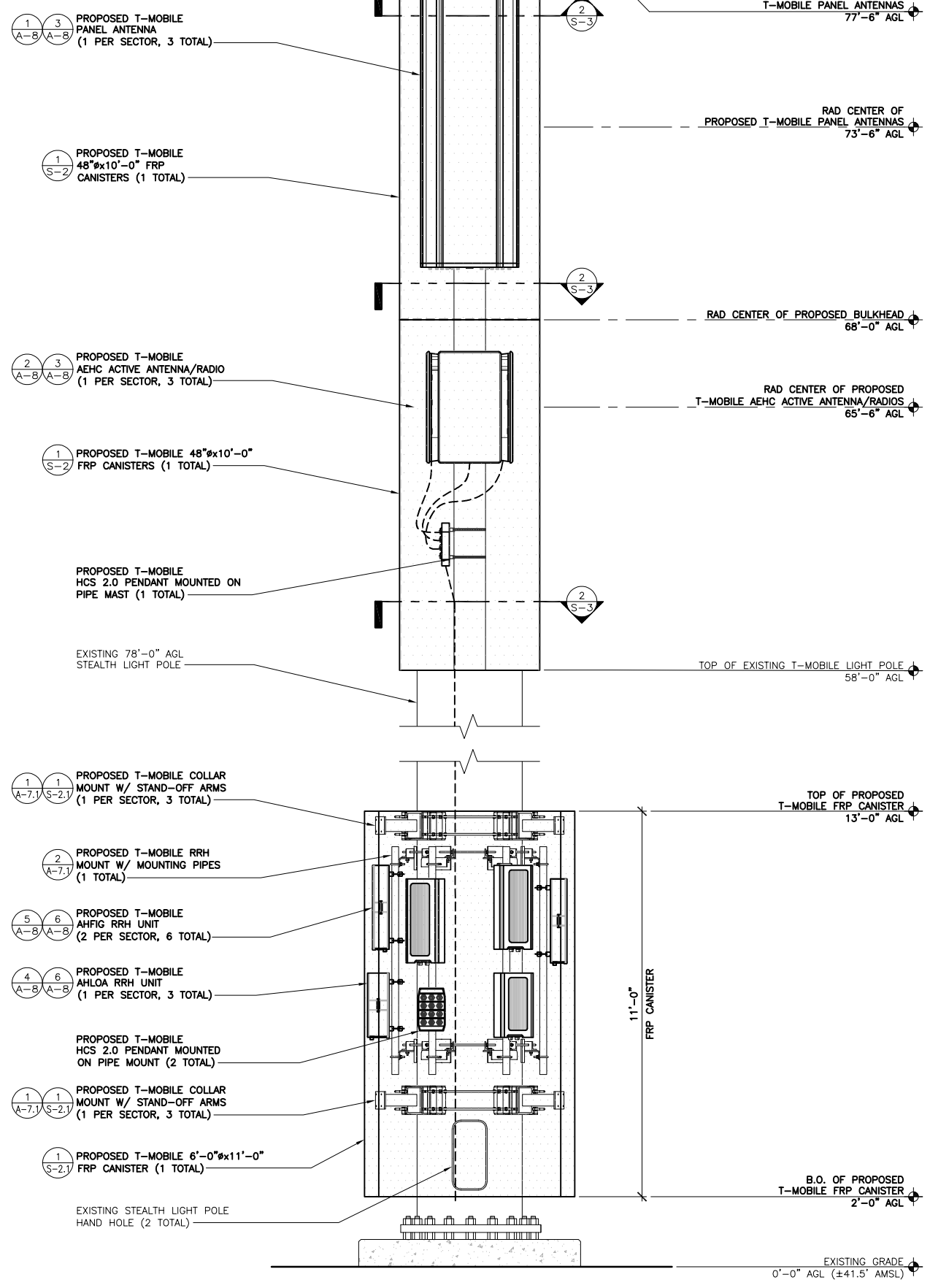






ANTENNA & RRH UNIT MOUNTING BRACKETS 2

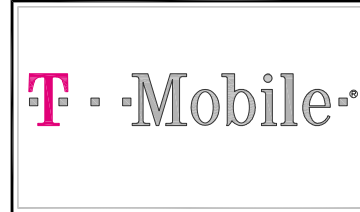
NOTE:  
PROPOSED FRP CANISTERS TO BE PAINTED TO MATCH THE EXISTING LIGHT POLE.



ANTENNA & RRH MOUNTING 1

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

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



**RYKA CONSULTING**  
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REVISIONS

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TITLE  
ANTENNA DETAILS

SHEET  
**A-7**

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PRCT120220827

City of Puyallup  
Development & Permitting Services  
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T-Mobile

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WASHINGTON STATE  
FAIR/LIGHT POLE

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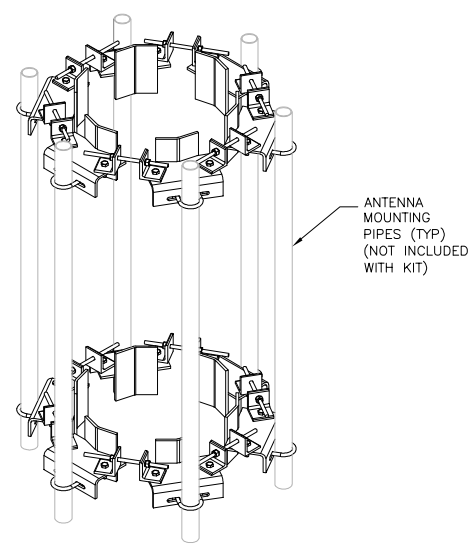
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11"x17" SCALE: N.T.S. NOT USED **6**

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. NOT USED **5**

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11"x17" SCALE: N.T.S. NOT USED **4**

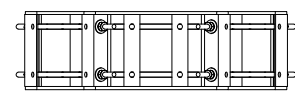
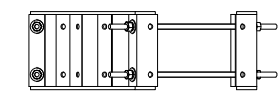
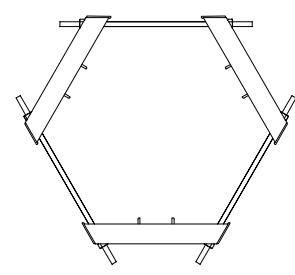
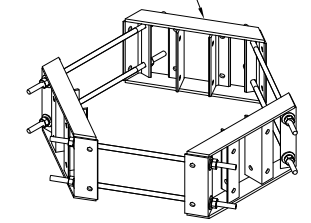
REVISIONS				
REV.	DATE	DESCRIPTION	BY	
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD	
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD	

MANUFACTURER: SITE PRO 1  
MODEL: 6CHMT  
6 SIDED MONOPOLE MOUNT FOR ROUND  
OR POLYGON POLES 17-1/2" TO 58" DIA.  
WEIGHT: 272 LBS



LIGHTWEIGHT RING MOUNT  
SITE PRO PART # UGLM  
OR APPROVED EQUAL

NOTE:  
1. THIS LIGHTWEIGHT RING MOUNT FITS ON MONOPOLES RANGING IN SIZES FROM 10-1/2" TO 28". THE LIGHTWEIGHT RING MOUNT IS GOOD FOR APPLICATION USING TWO ANTENNAS PER SECTOR. THERE ARE LARGE AND SMALL POLE ADAPTER KITS FOR THE LIGHTWEIGHT RING MOUNT (LP-42 28" - 42" AND LP-6 6-5/8" - 10-1/2").  
2. CONTRACTOR SHALL VERIFY POLE DIAMETER PRIOR TO PURCHASE OF BRACKET ASSEMBLY TO ENSURE THAT IT IS ADEQUATELY SIZED



24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. NOT USED **3**

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. RRH UNIT MOUNT **2**

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

03-16-2022

EXPIRES 01-09-2023

TITLE  
ANTENNA DETAILS

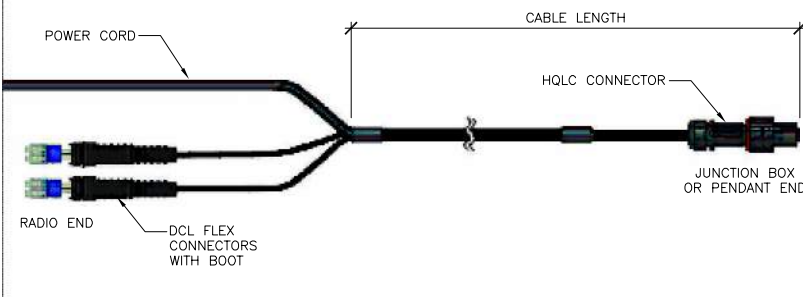
SHEET  
**A-7.1**

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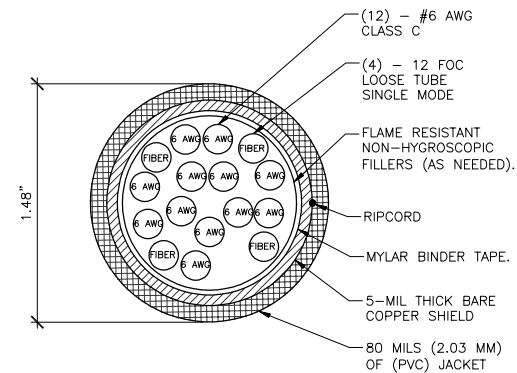
PRCT120220827



MANUFACTURER: COMMSCOPE  
MODEL: HFT410-4SNOK2-15

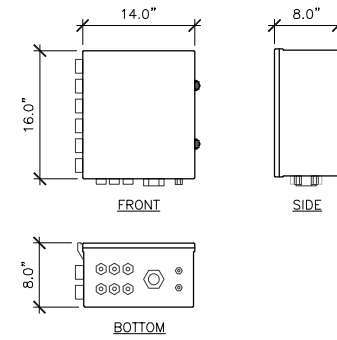


24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. HCS 2.0 JUMPER CABLE 10



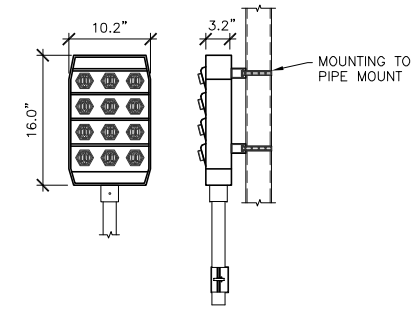
24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. HCS 2.0 HYBRID FIBER TRUNK 9

MANUFACTURER: RAYCAP  
MODEL: TOWER JUNCTION BOX  
WEIGHT: 21.9 LBS  
DIMENSIONS: 14.0" X 16.0" X 8.0"

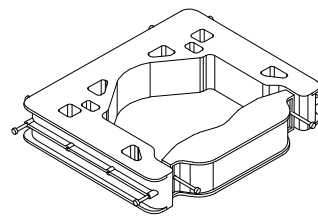
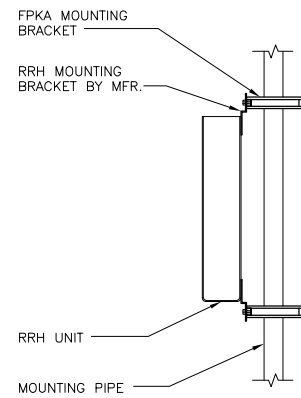


24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. HSC 2.0 OVP JUNCTION BOX 8

MANUFACTURER: NETWORK WIRELESS SOLUTIONS  
WEIGHT: 1.61 LBS/FT  
DIMENSIONS: 10.2" X 16.0" X 3.2"



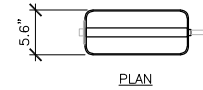
24"x36" SCALE: 1" = 1'-0"  
11"x17" SCALE: 1/2" = 1'-0" HCS 2.0 PENDANT 7



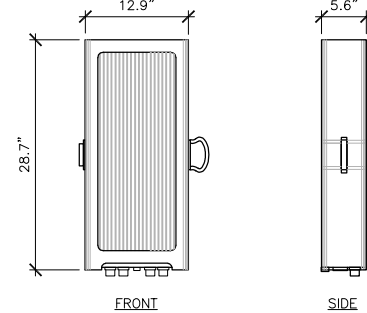
MANUFACTURER: NOKIA  
MODEL: 471649A, FLEXI POLE KIT (FPKA)

NOTES:  
1. FITS PIPES 2.4" O.D. - 4.7" O.D.  
2. MAX WEIGHT ALLOWED: 352.7 LBS

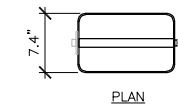
24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. RRH MOUNT 6



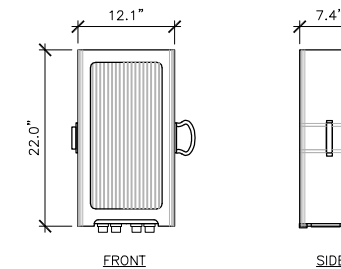
MANUFACTURER: NOKIA  
MODEL: AHFIG 4T4R DUAL BAND RRH  
WEIGHT: 70.5 LBS  
DIMENSIONS: 28.7" X 12.9" X 5.6"



24"x36" SCALE: 1" = 1'-0"  
11"x17" SCALE: 1/2" = 1'-0" AHFIG RRH UNIT 5



MANUFACTURER: NOKIA  
MODEL: AHLOA 4T4R RRH  
WEIGHT: 83.8 LBS  
DIMENSIONS: 22.0" X 12.1" X 7.4"



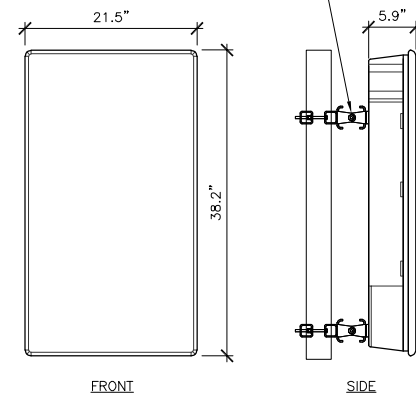
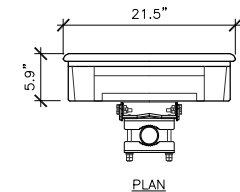
24"x36" SCALE: 1" = 1'-0"  
11"x17" SCALE: 1/2" = 1'-0" AHLOA RRH UNIT 4

**City of Puyallup**  
Development & Permitting Services  
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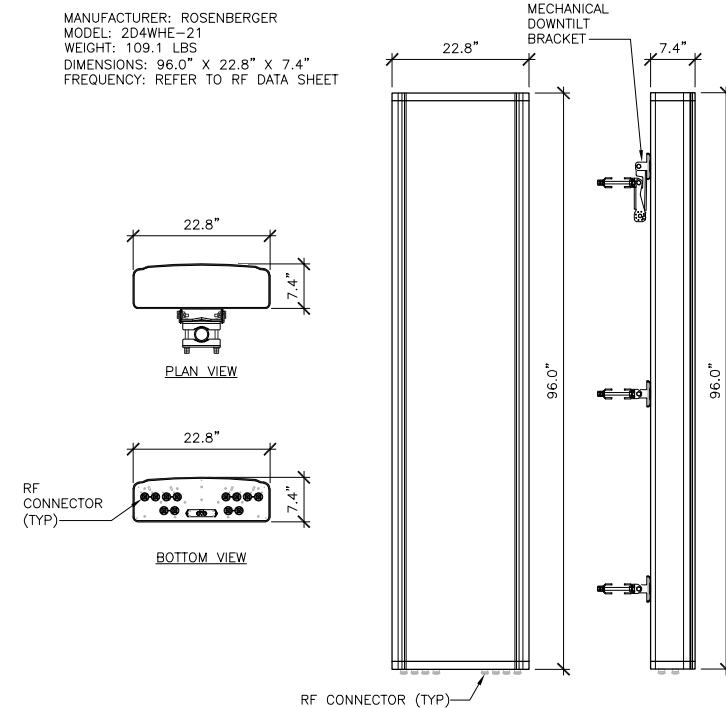
24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S. NOT USED 3

MANUFACTURER: NOKIA  
MODEL: AEHC 2.5GHZ mMIMO  
ACTIVE ANTENNA/RADIO  
WEIGHT: 108.0 LBS  
DIMENSIONS: 38.2" X 21.5" X 5.9"



24"x36" SCALE: 1" = 1'-0"  
11"x17" SCALE: 1/2" = 1'-0" AEHC ACTIVE ANTENNA/RADIO 2

MANUFACTURER: ROSENBERGER  
MODEL: 2D4WHE-21  
WEIGHT: 109.1 LBS  
DIMENSIONS: 96.0" X 22.8" X 7.4"  
FREQUENCY: REFER TO RF DATA SHEET



24"x36" SCALE: 3/4" = 1'-0"  
11"x17" SCALE: 3/8" = 1'-0" PANEL ANTENNA 1



5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

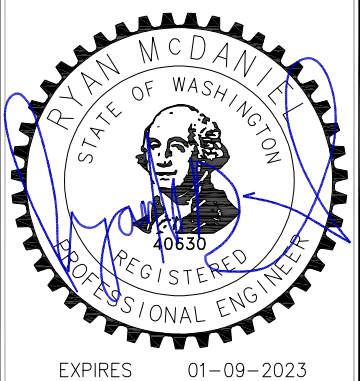
**SE04823C**  
WASHINGTON STATE  
FAIR/LIGHT POLE

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

REVISIONS

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03-16-2022



TITLE  
ANTENNA DETAILS

SHEET

**A-8**

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**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

**SE04823C**  
**WASHINGTON STATE**  
**FAIR/LIGHT POLE**

902 S MERIDIAN  
PUYALLUP, WA 98371  
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03-16-2022

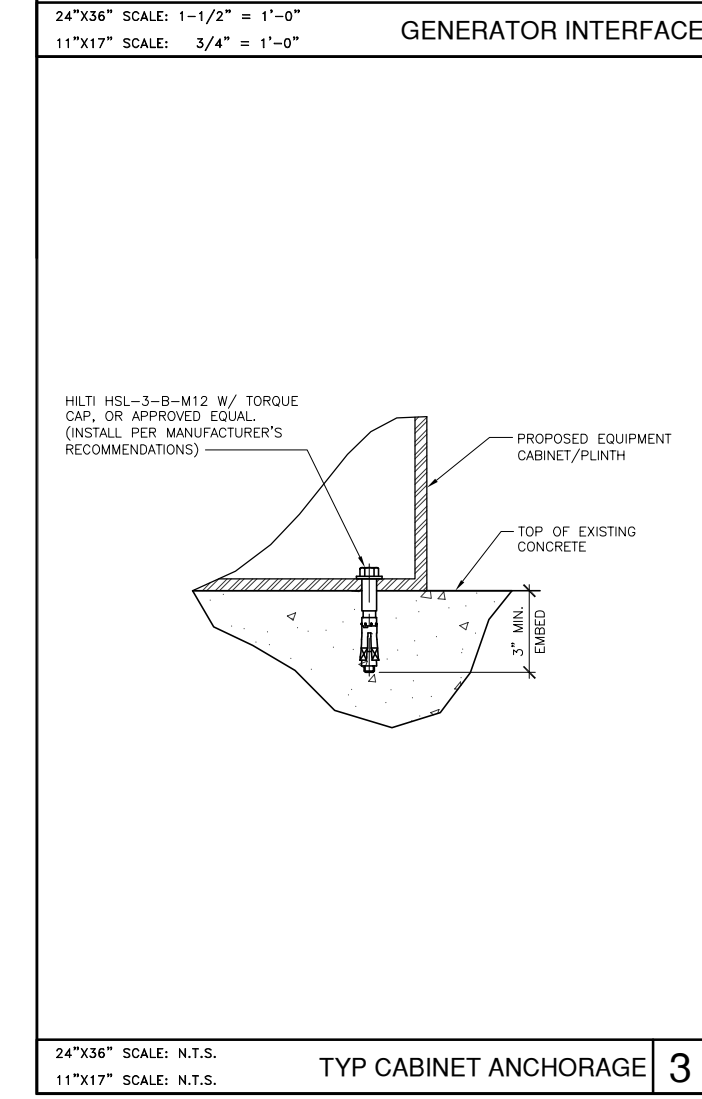
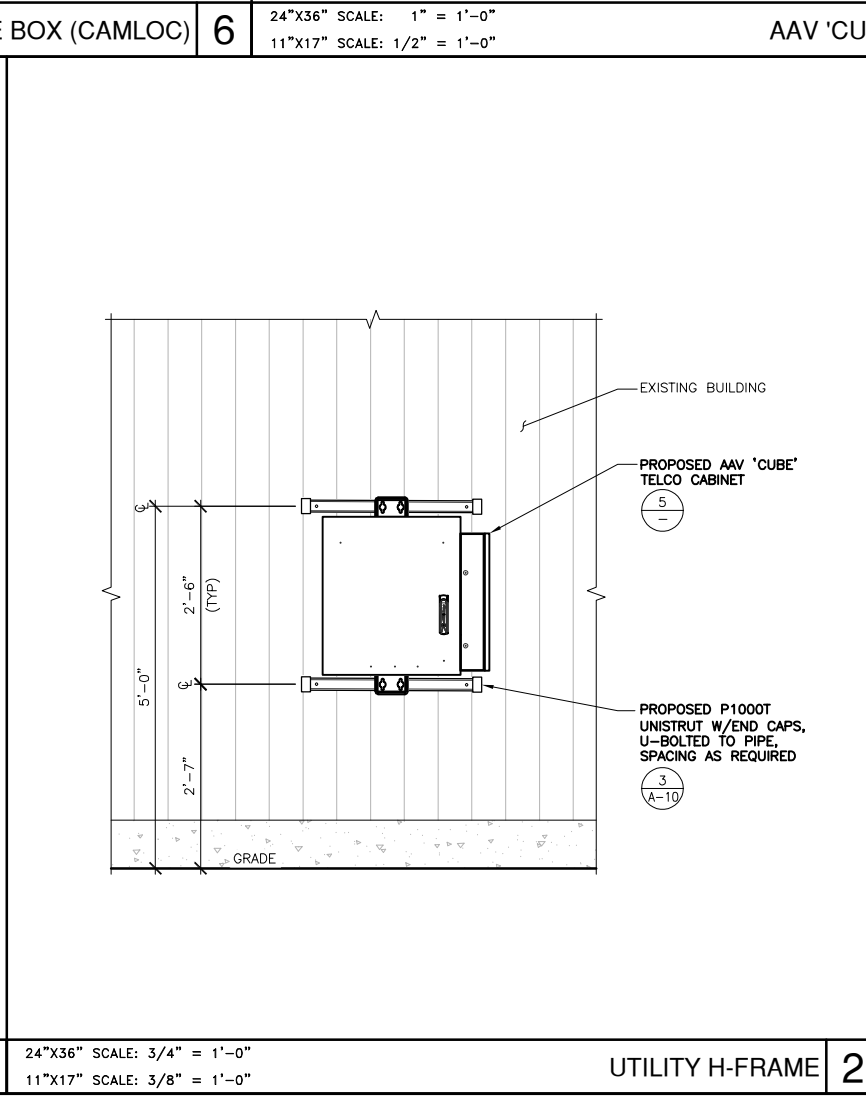
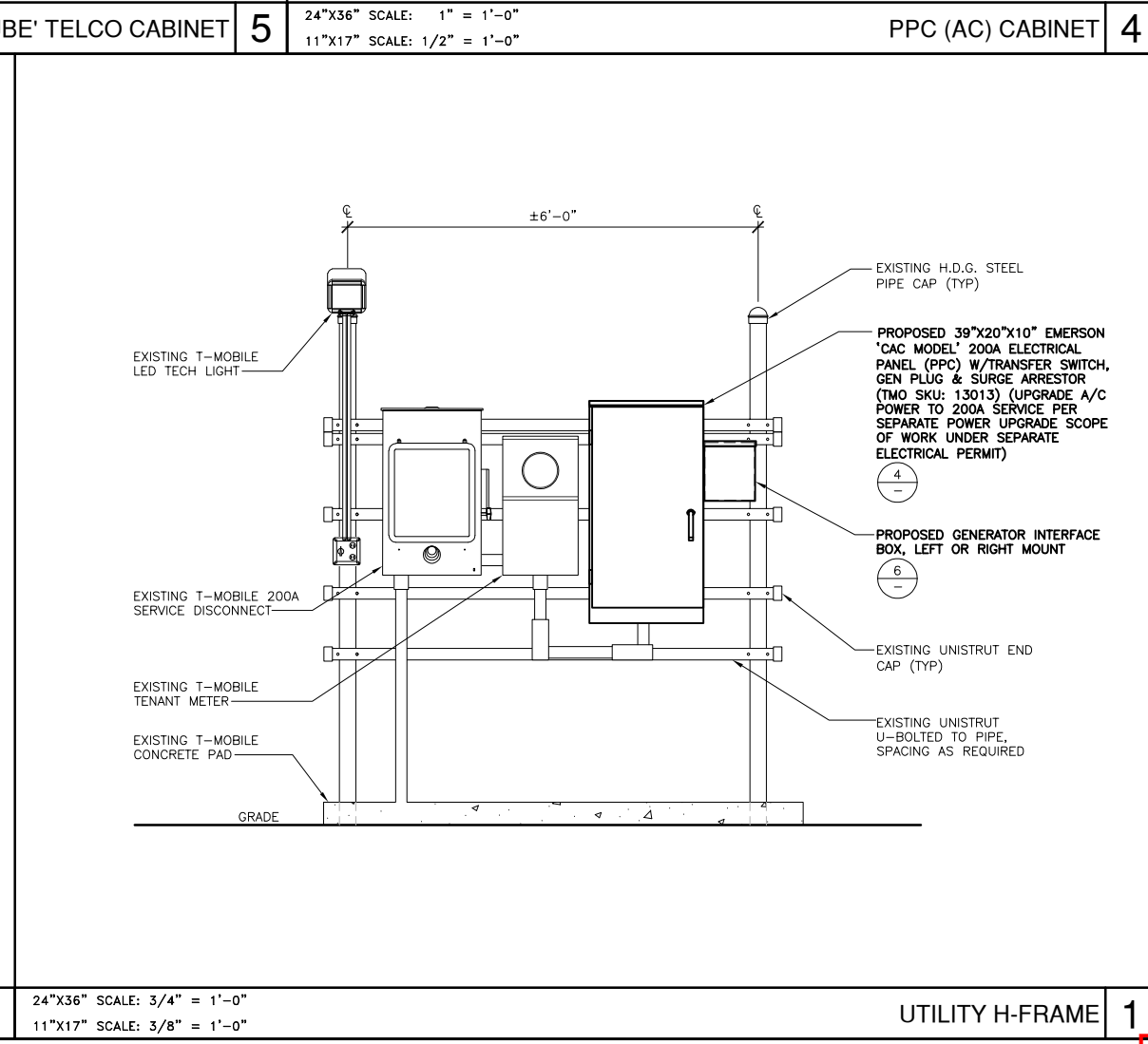
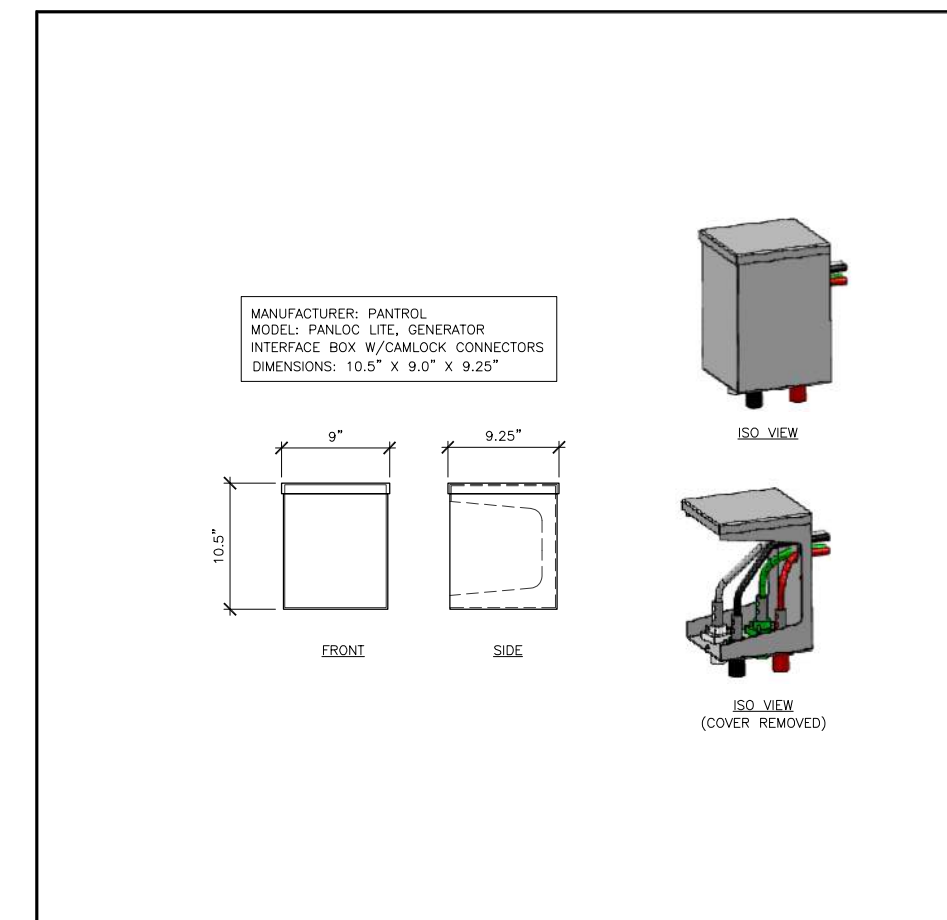
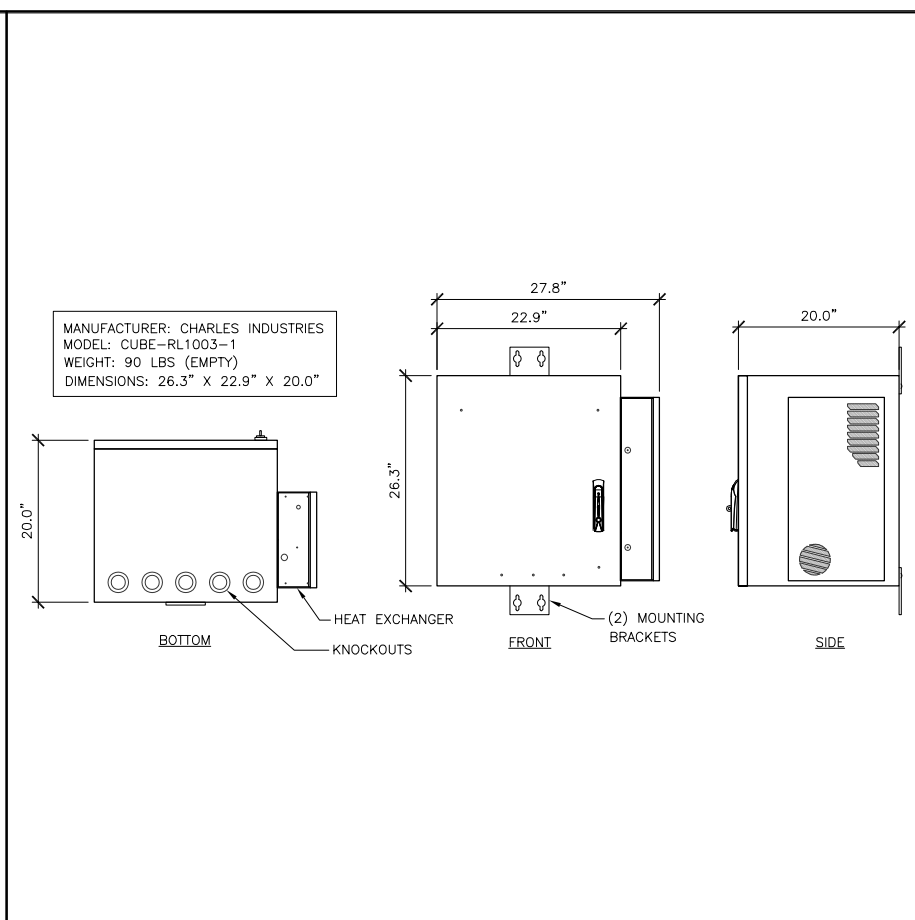
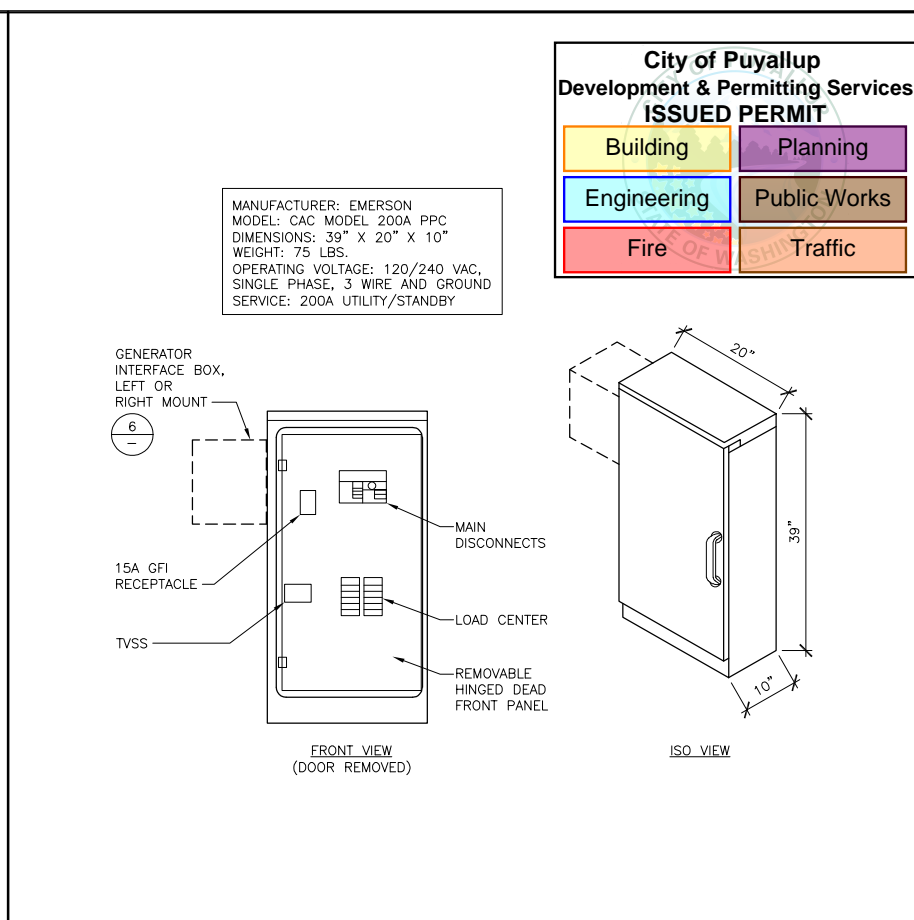
EXPIRES 01-09-2023

TITLE  
CONSTRUCTION DETAILS

SHEET  
**A-9**

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PRCT120220827



TYP CABINET ANCHORAGE 3

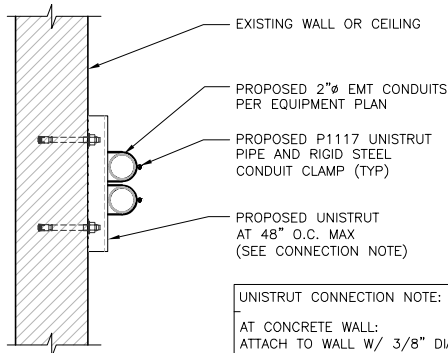
UTILITY H-FRAME 2

UTILITY H-FRAME 1

GENERATOR INTERFACE BOX (CAMLOC) 6

AAV 'CUBE' TELCO CABINET 5

PPC (AC) CABINET 4

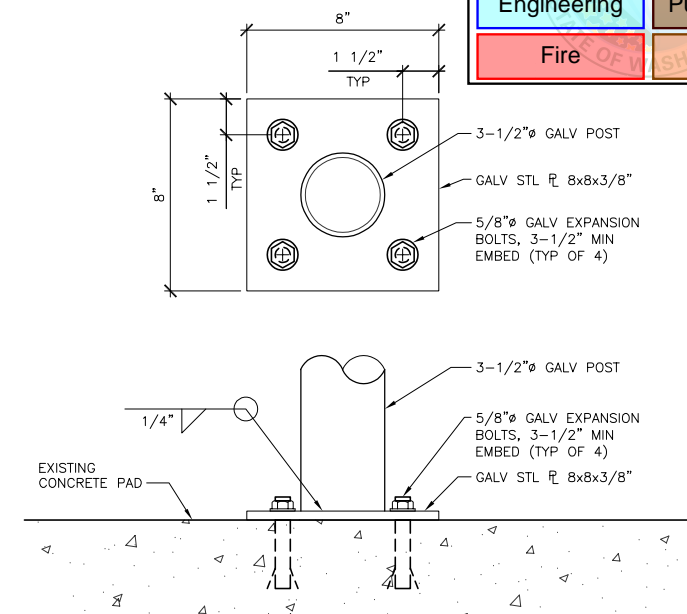
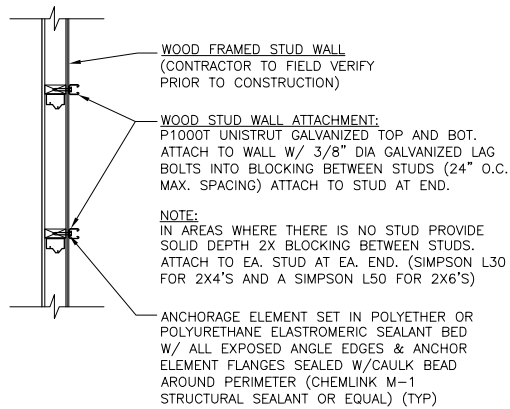


**UNISTRUT CONNECTION NOTE:**

**AT CONCRETE WALL:**  
ATTACH TO WALL W/ 3/8" DIA S.S. HILTI KWIK BOLT TZ (OR APPROVED EQUAL) AT 48" O.C. MAX. (3-1/4" MIN. EMBED) MIN. (1) EA. END

**AT WOOD STUD WALL/CEILING:**  
ATTACH TO WALL/CEILING W/ 3/8" DIA X 3-1/2" (GALV.) LAG SCREWS AT STUD/JOIST, MIN. (1) EA. END. (SPAN MINIMUM OF (2) STUDS)

- CONNECTION SHALL NOT BE USED FOR ANTENNA MOUNTINGS
- MAXIMUM EQUIPMENT LOAD IS 200 PLF. (100 PLF TO EA. UNISTRUT)
- CONNECTION SHALL NOT BE USED FOR EQUIPMENT MOUNTED OVER 8'-0" ABOVE FLOOR / ROOF LEVELS



**City of Puyallup**  
Development & Permitting Services  
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Building	Planning
Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

**SE04823C**  
**WASHINGTON STATE**  
**FAIR/LIGHT POLE**

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

**REVISIONS**

REV.	DATE	DESCRIPTION	APPROVED	
			BY	DATE
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0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD	

24"X36" SCALE: N.T.S.  
11"X17" SCALE: N.T.S.

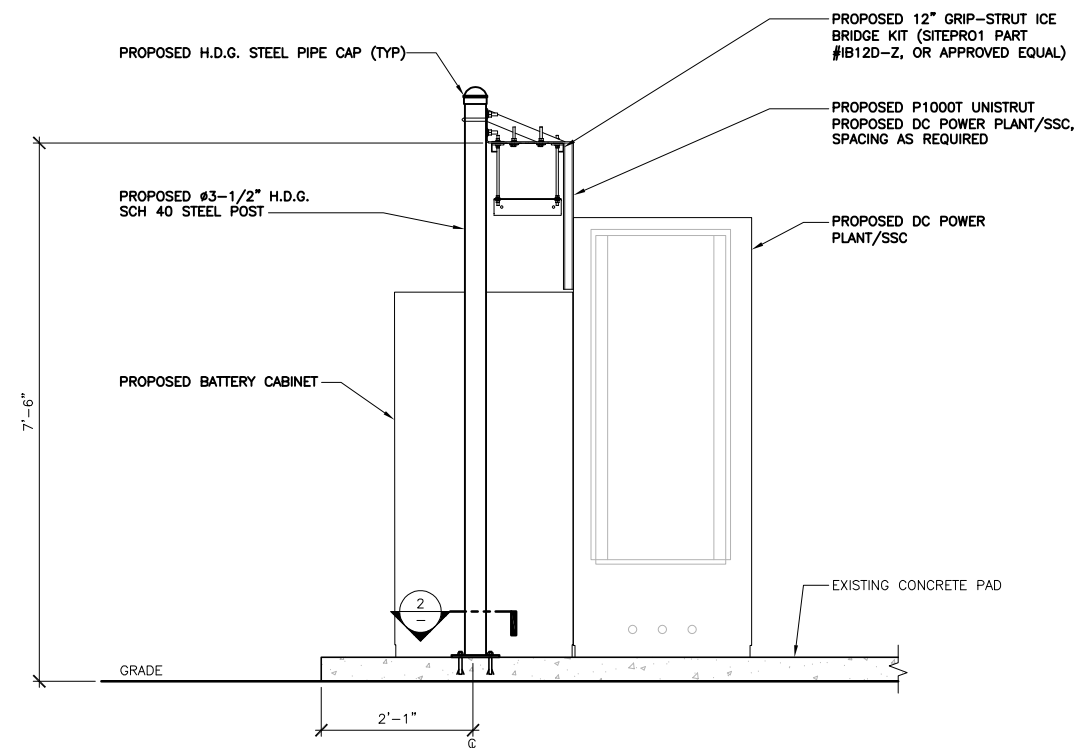
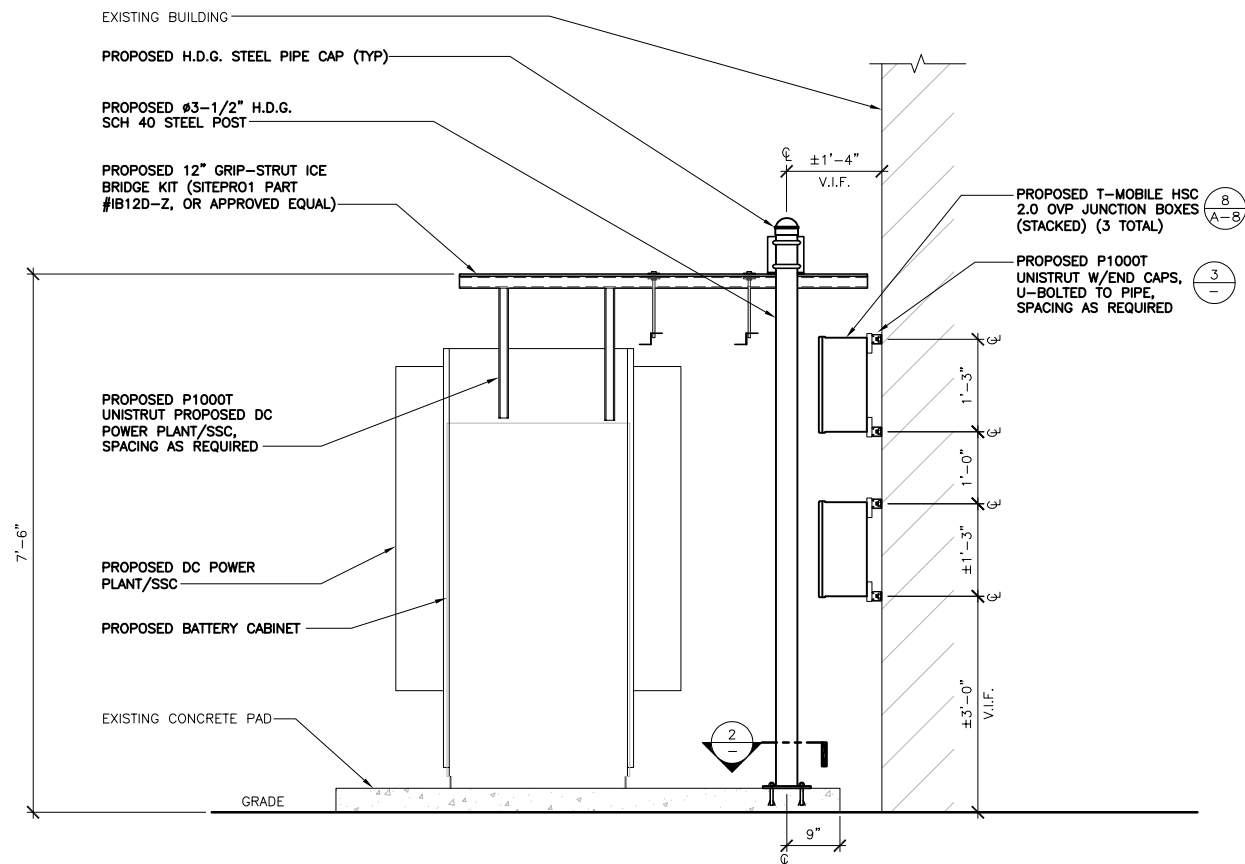
**CONDUIT @ WALL 4**

24"X36" SCALE: N.T.S.  
11"X17" SCALE: N.T.S.

**UNISTRUT @ WALL 3**

24"X36" SCALE: N.T.S.  
11"X17" SCALE: N.T.S.

**POST CONNECTION AT CONCRETE PAD 2**



24"X36" SCALE: 3/4" = 1'-0"  
11"X17" SCALE: 3/8" = 1'-0"

**ICE BRIDGE 1**

03-16-2022

EXPIRES 01-09-2023

TITLE  
CONSTRUCTION DETAILS

SHEET  
**A-10**

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**City of Puyallup**  
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Building	Planning
Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
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RFDS VERSION 2

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**WASHINGTON STATE**  
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03-16-2022



EXPIRES 01-09-2023

TITLE  
BATTERY CABINET DETAILS

SHEET

**A-11**

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**BATTERY COMPLIANCE NOTE**

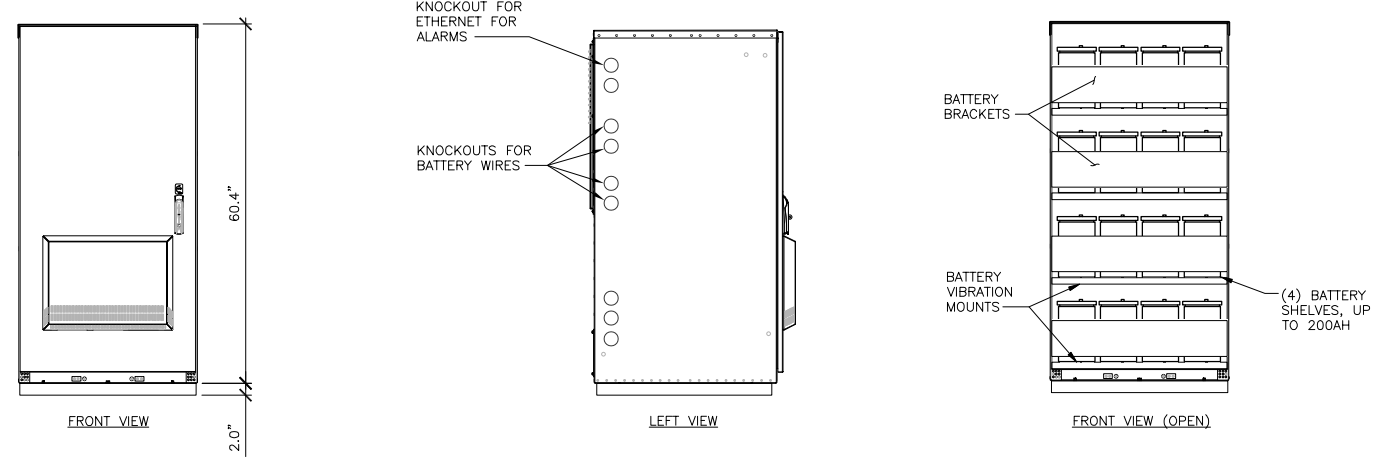
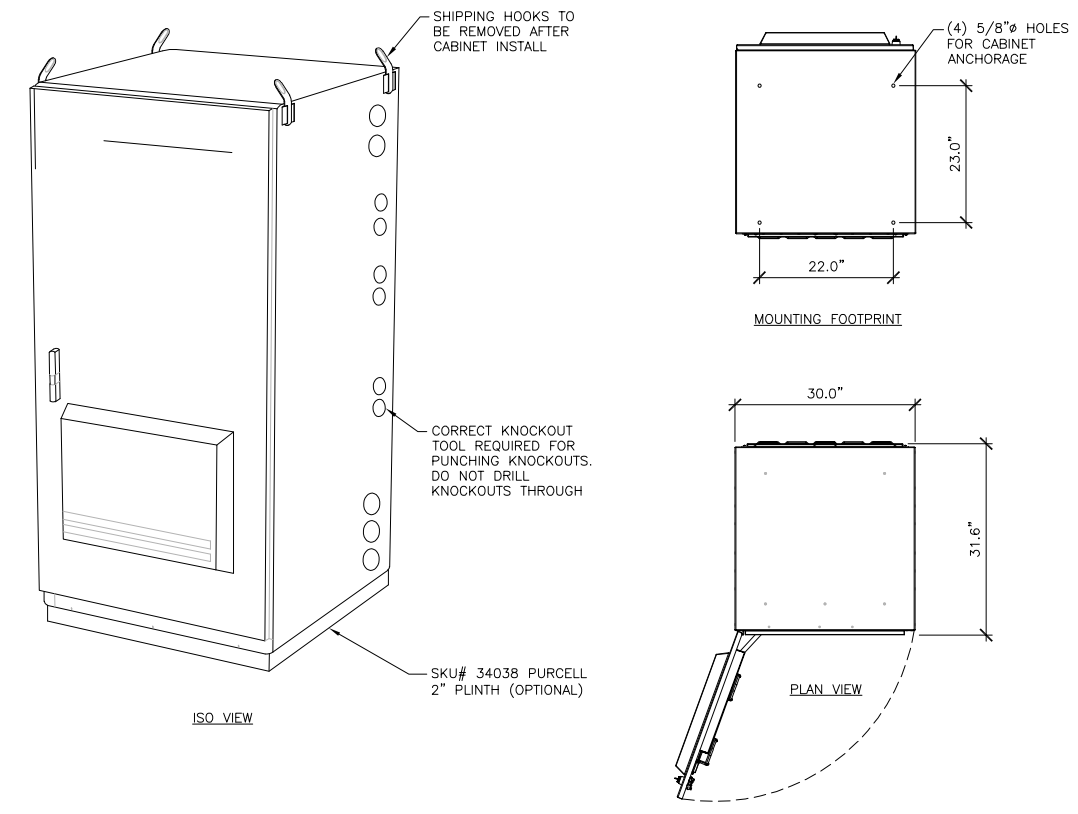
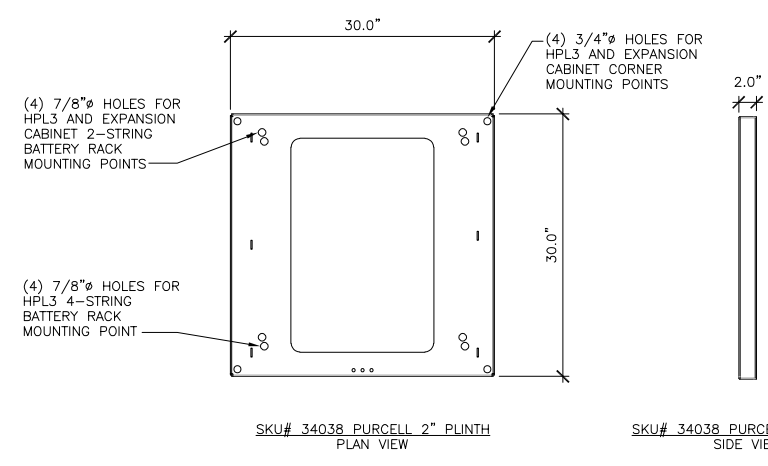
PROPOSED FINAL BATTERY CONFIGURATION TO CONSIST OF (16) LEAD ACID BATTERIES.

2015 IFC COMPLIANCE: EACH BATTERY CONTAINS 2.34 GALLONS OF ELECTROLYTE FOR A TOTAL VOLUME OF 34.44 GALLONS. AS THE TOTAL ELECTROLYTE VOLUME DOES NOT EXCEED 50 GALLONS, COMPLIANCE WITH 2015 IFC SECTION 608 IS NOT REQUIRED.

2018 IFC COMPLIANCE: EACH BATTERY IS RATED AT 2.28 KWH (12VX190AH/1000) FOR A TOTAL OF 36.48KWH. AS THIS DOES NOT EXCEED THE 70KWH THRESHOLD LISTED IN TABLE 1206.2 OF THE 2018 INTERNATIONAL FIRE CODE, COMPLIANCE WITH 2018 IFC SECTIONS 1206.2.1 THROUGH 1206.2.12.6 IS NOT REQUIRED.

MANUFACTURER:	PURCELL SYSTEMS INC
MODEL:	HPL3 (LB3) LARGE BATTERY CABINET
WEIGHT:	350 LBS (WITHOUT EQUIPMENT) 2,465 LBS (WITH EQUIPMENT)
DIMENSIONS:	30.0"x31.6"x60.4"

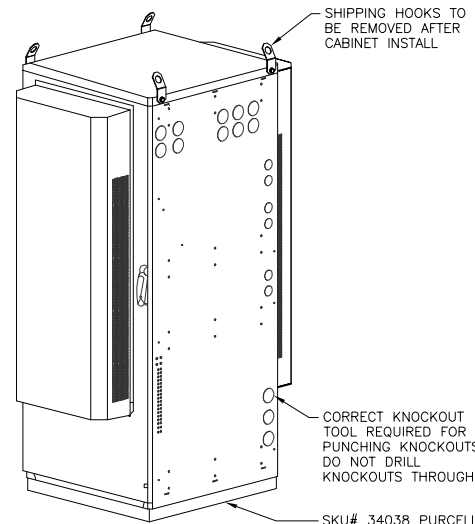
**NOTE:**  
\* WIRES RUN THROUGH PROVIDED KNOCKOUT.  
FOLLOW PROPER INSTALLATION OF GASKET  
BEFORE MATING THE 2 CABINETS



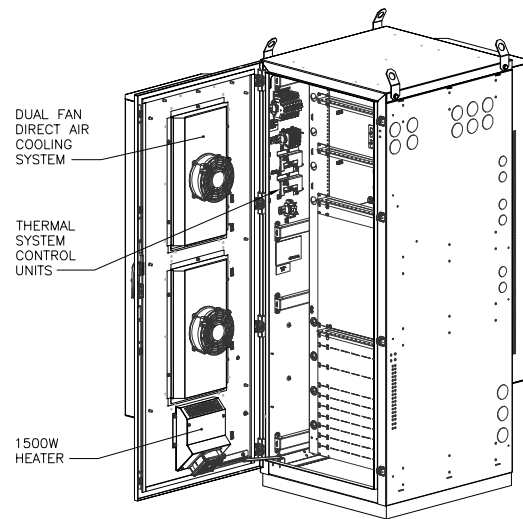
MANUFACTURER:	PURCELL SYSTEMS INC
MODEL:	HPL3 (NO DC) CABINET
WEIGHT:	430 LBS (WITHOUT EQUIPMENT) 630 LBS (WITH EQUIPMENT)
DIMENSIONS:	30"x32"x72"

**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)

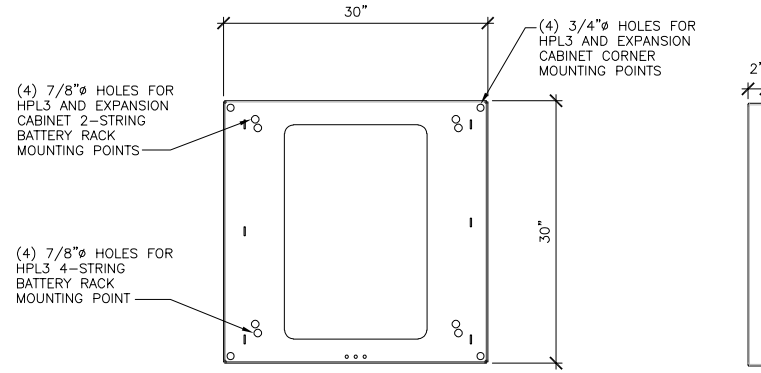
RACK ASSIGNMENT		
RACK	RU SLOT	DESCRIPTION
TOP	15	3RD AIRSCALE
	14	
	13	
	12	FIBER MUX
	11	
	10	2ND AIRSCALE
	9	
	8	FIBER MUX
	7	
	6	
5	1ST AIRSCALE	
4		
3	FIBER MUX	
2		
1		
EMPTY		
BOTTOM	16	AAV
	15	CSR
	14	
	13	4TH AIRSCALE
	12	
	11	FIBER MUX
	10	3RD LEGACY BBU
9		
8	2ND LEGACY BBU	
7		
6	1ST LEGACY BBU	
5		
4		
3		
2		
1		



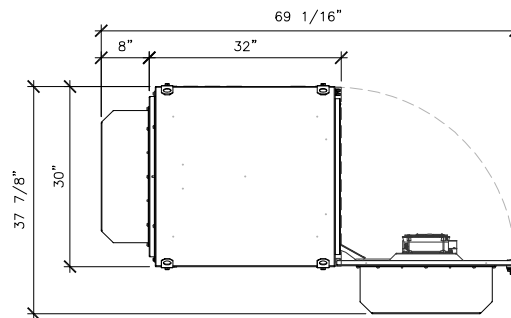
ISOMETRIC VIEW  
DOOR CLOSED



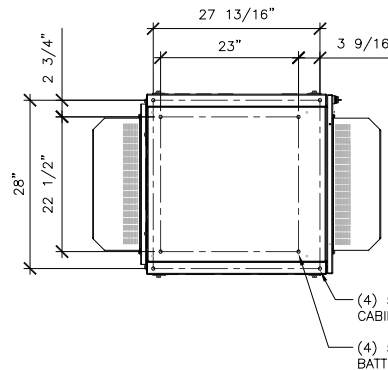
ISOMETRIC VIEW  
DOOR OPEN



SKU# 34038  
PURCELL 2\"/>



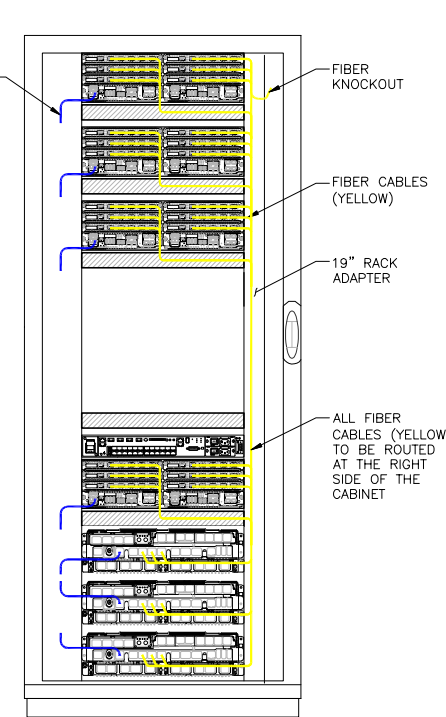
PLAN VIEW



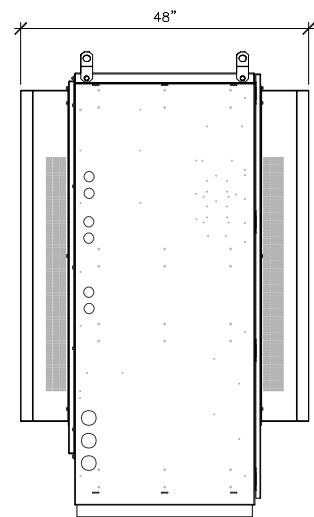
MOUNTING FOOTPRINT

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

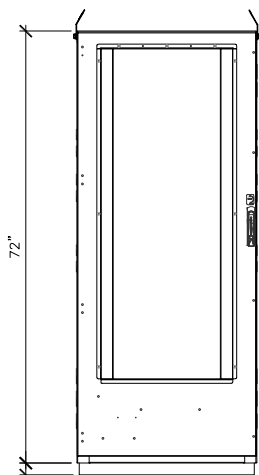
Building	Planning
Engineering	Public Works
Fire	Traffic



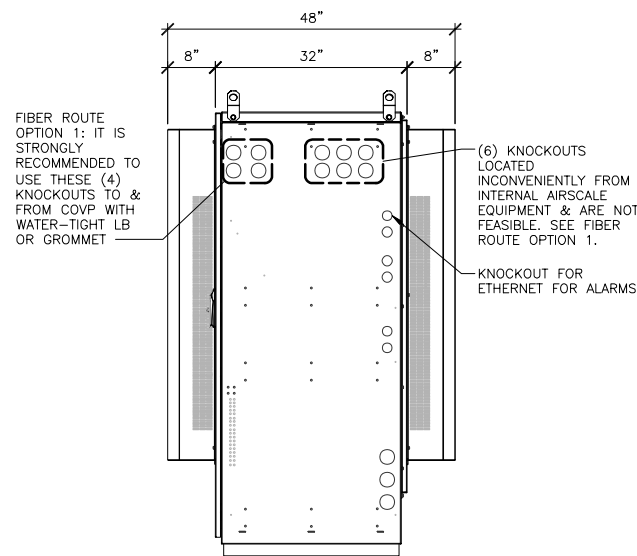
INTERNAL ROUTING



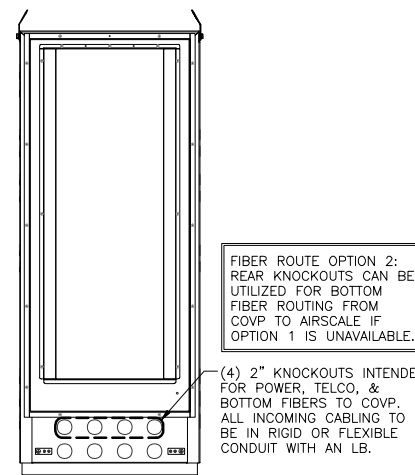
LEFT VIEW



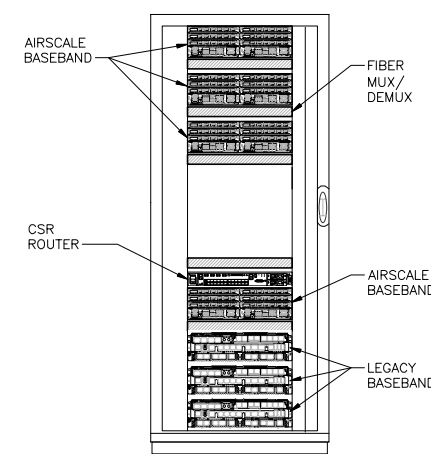
FRONT VIEW



RIGHT VIEW



BACK VIEW



FRONT VIEW (OPEN)



5628 AIRPORT WAY  
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RFDS VERSION 2

**SE04823C**  
 WASHINGTON STATE  
 FAIR/LIGHT POLE

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 PUYALLUP, WA 98371  
 PIERCE COUNTY

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03-16-2022

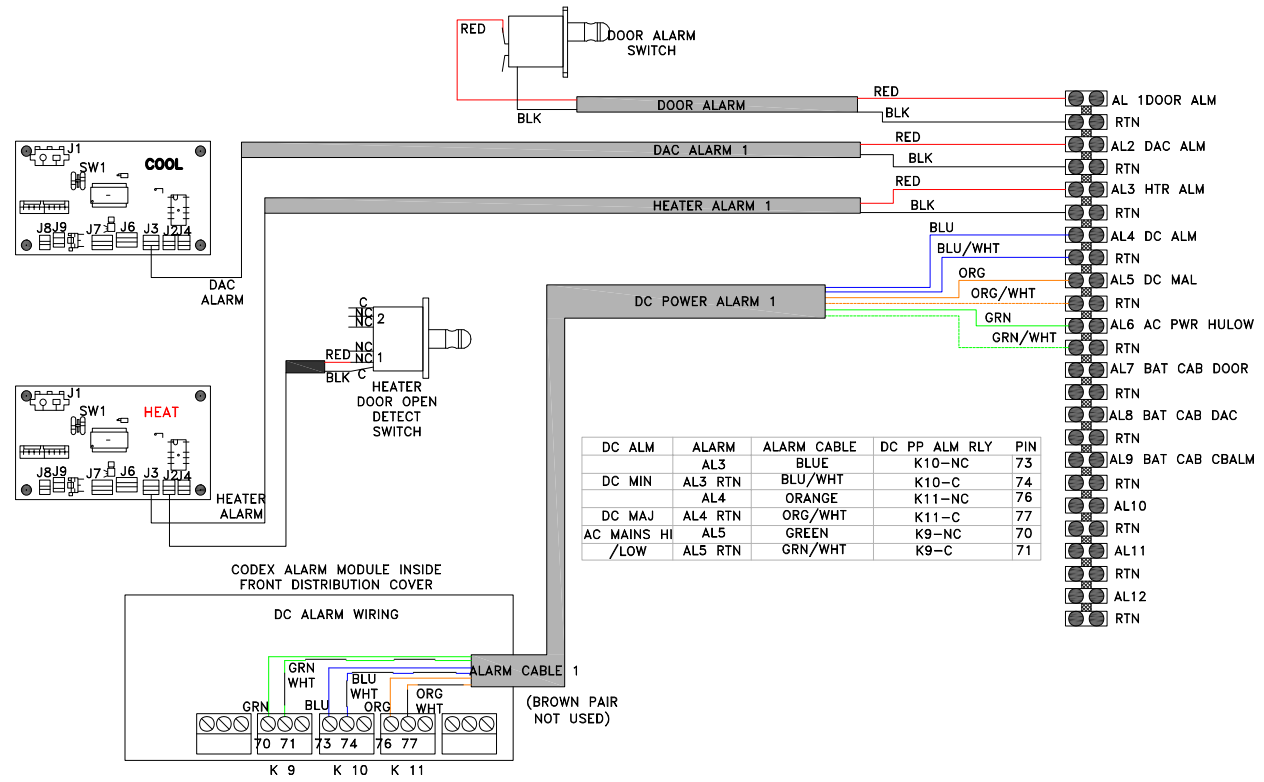
EXPIRES 01-09-2023

TITLE  
CABINET DETAILS

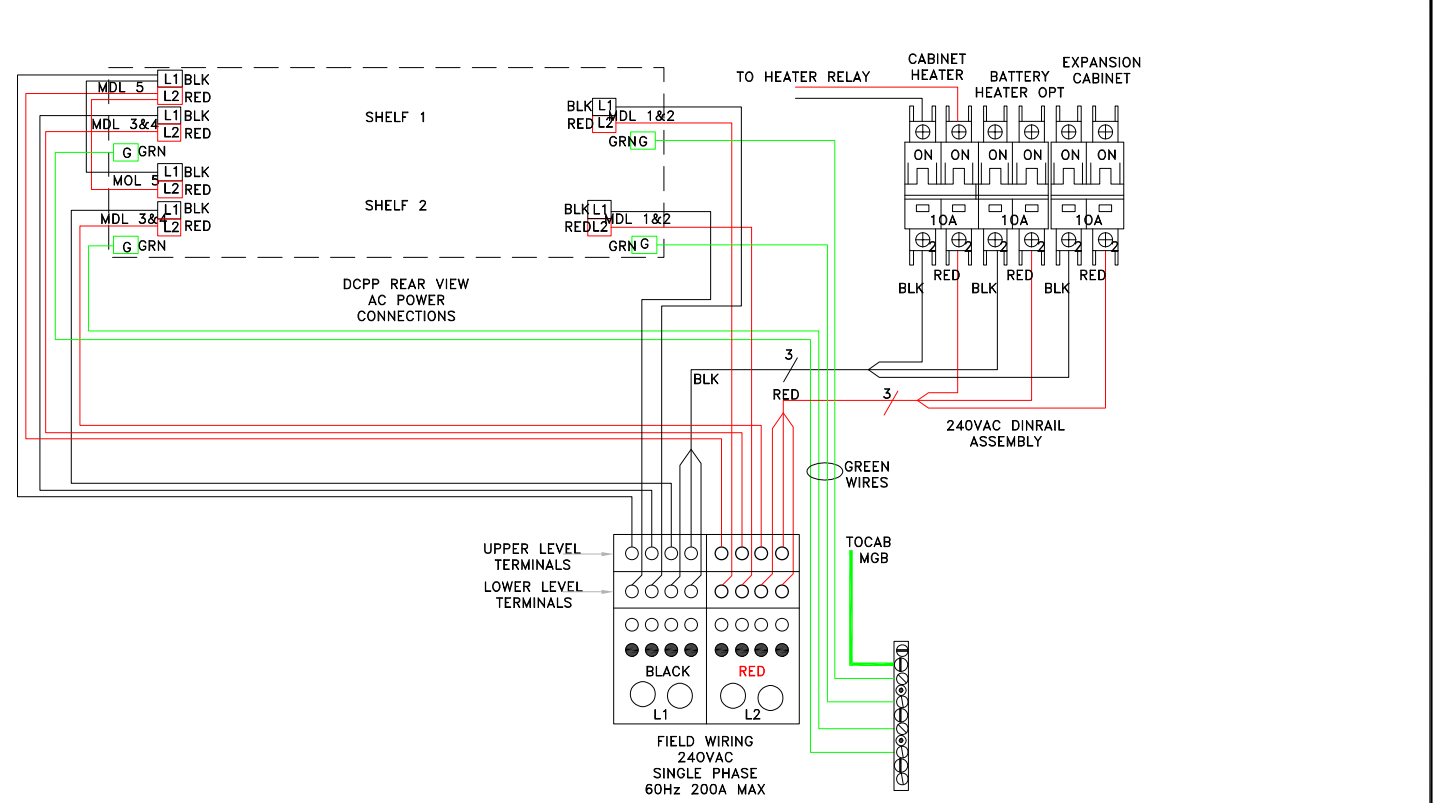
SHEET

**A-12**

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ALARM WIRING DIAGRAM 5



AC POWER WIRING DIAGRAM 4

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S

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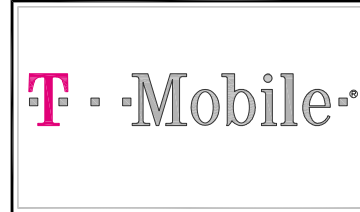
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11"x17" SCALE: N.T.S

NOT USED 2

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S

NOT USED 1



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0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD	



TITLE  
ELECTRICAL DIAGRAMS

SHEET  
**E-1**

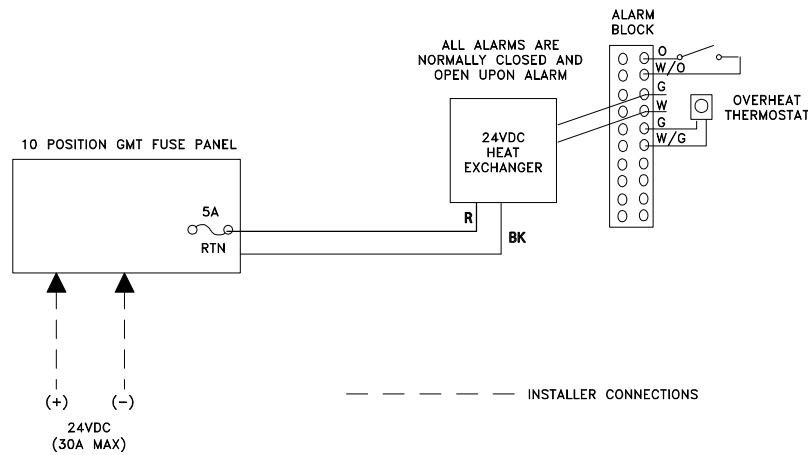
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Engineering	Public Works
Fire	Traffic

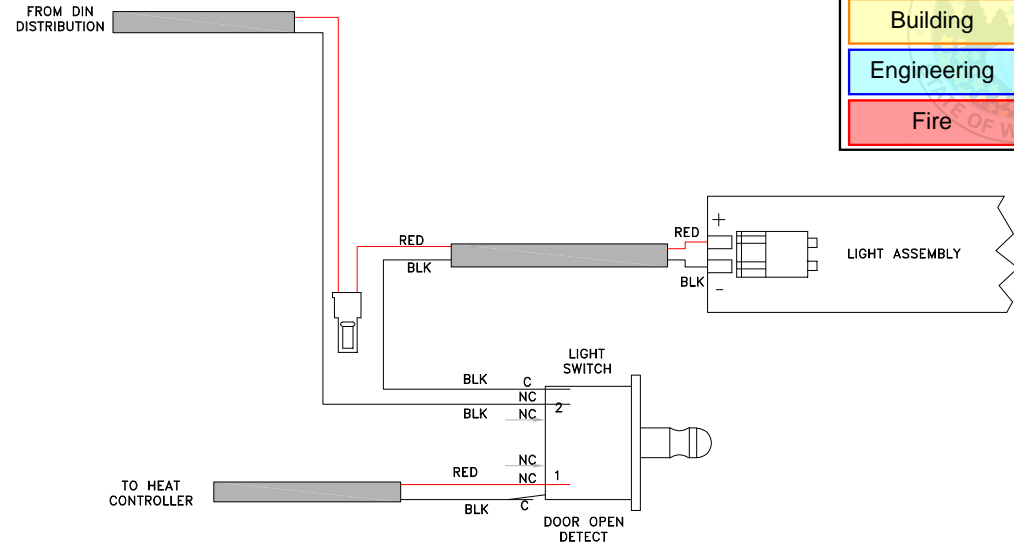
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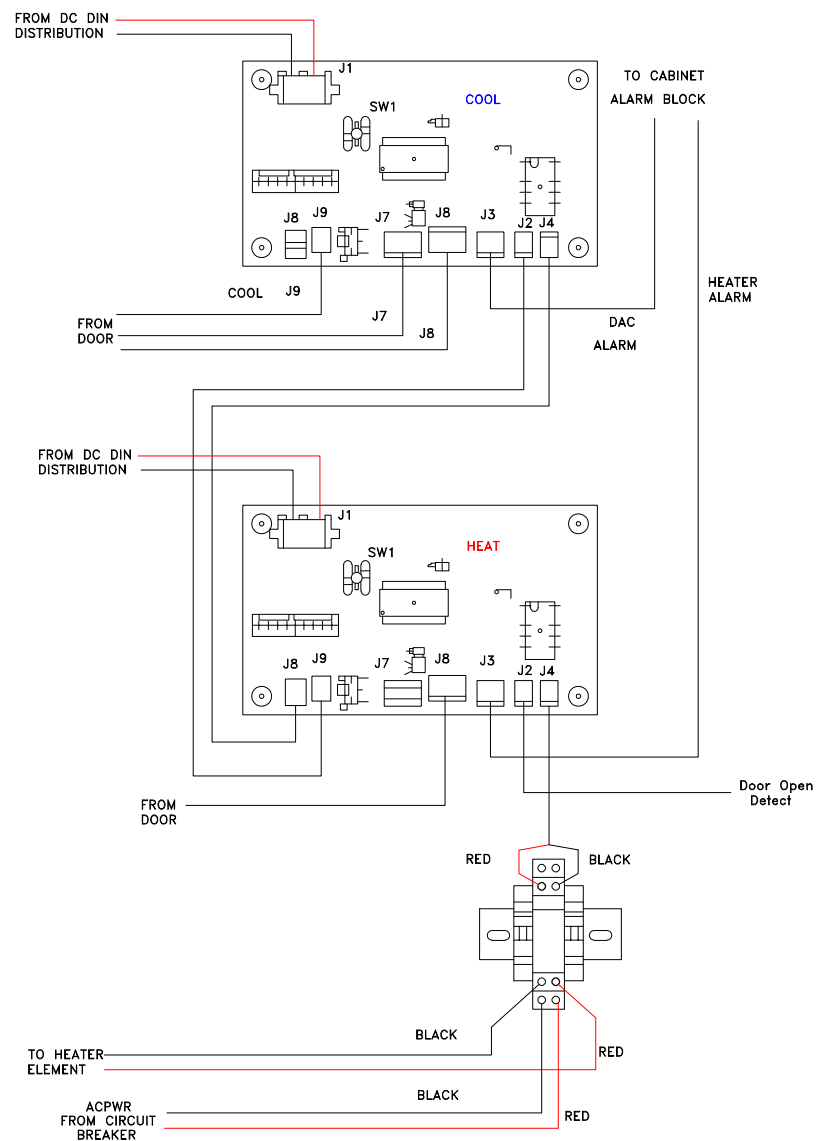
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11"x17" SCALE: N.T.S.

TELCO CUBE ELECTRICAL DIAGRAM 4



24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

DC CABINET DOOR LIGHT POWER WIRING DIAGRAM 3



DAC (COOLING) CONTROLLER

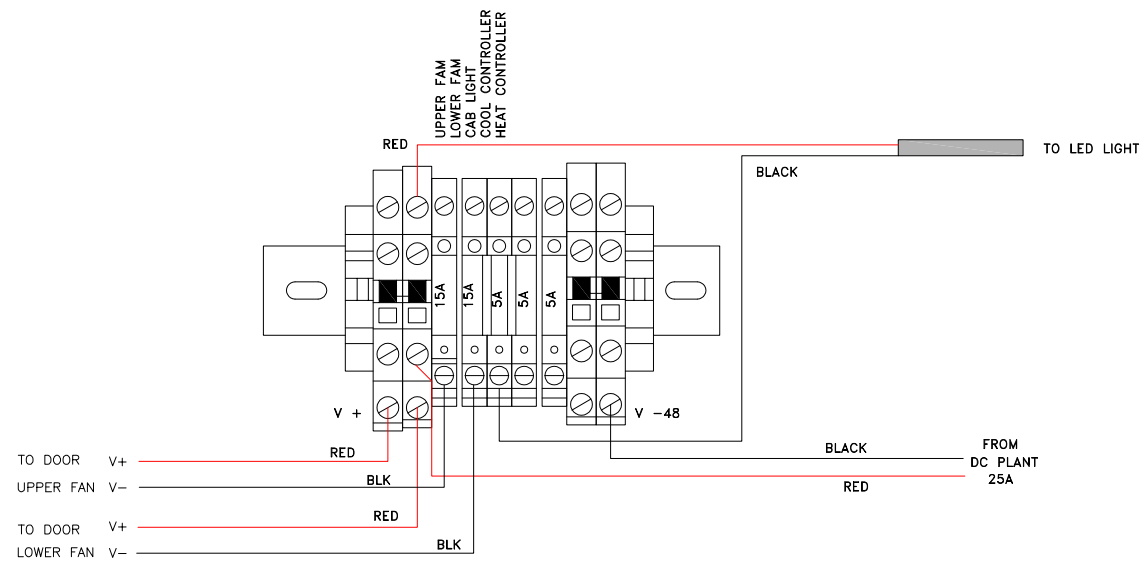
COHN	FUNCTION
J1	PIWR IN
J8	DELTA T JUMPER
J9	OUTSIDE TEMPERATURE
J7	DACFAN (LOWER)
J6	DACFAN (UPPER)
J3	ALARM
J2	COOLING INHIBIT
J4	HEAT REQUEST

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 RELAY CONTROL

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

DC HEATING & COOLING DIAGRAM 2



24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

DC FUSE BLOCK WIRING DIAGRAM 1

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TITLE  
ELECTRICAL DIAGRAMS

SHEET  
E-2

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**GENERAL NOTES:**

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING GROUND WIRES AND CONNECT TO SURFACE MOUNTED BUS BARS. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS AND EXIT FROM TOWER OR POLE USING MFR'S PRACTICES.
- ALL GROUND CONNECTIONS SHALL BE CADWELDED. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE GREEN INSULATED WIRE ABOVE GROUND.
- CONTRACTOR TO VERIFY AND TEST GROUND SOURCE, GROUNDING AND OTHER OPERATIONAL TESTING WILL BE WITNESSED BY CARRIER, REPRESENTATIVE.
- REFER TO DIVISION 16 GENERAL ELECTRIC; GENERAL ELECTRICAL PROVISION AND COMPLY WITH ALL REQUIREMENTS OF GROUNDING STANDARDS.
- ELECTRICAL CONTRACTOR TO PROVIDE DETAILED DESIGN OF GROUNDING SYSTEM, AND RECEIVE APPROVAL OF DESIGN BY AUTHORIZED CARRIER, REPRESENTATIVE, PRIOR TO INSTALLATION OF GROUNDING SYSTEM. PHOTO DOCUMENT ALL CADWELDS AND GROUND RINGS.
- NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- USE PANI SCHEME FOR LOADING GROUNDS ON MGB AS DISCUSSED IN NSTD 119, 33 & 36.

**GROUND ROD NOTES:**

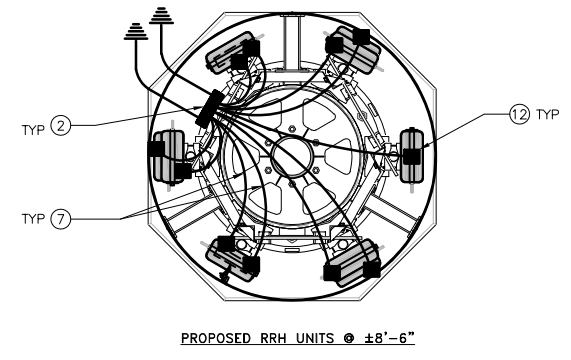
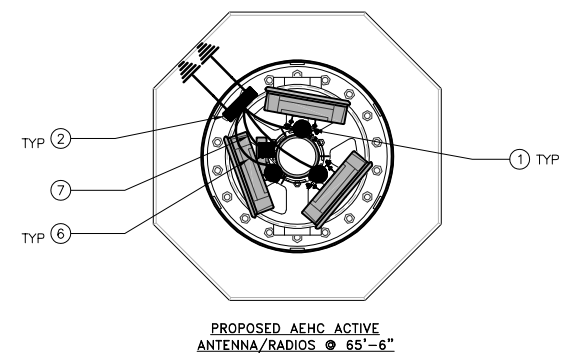
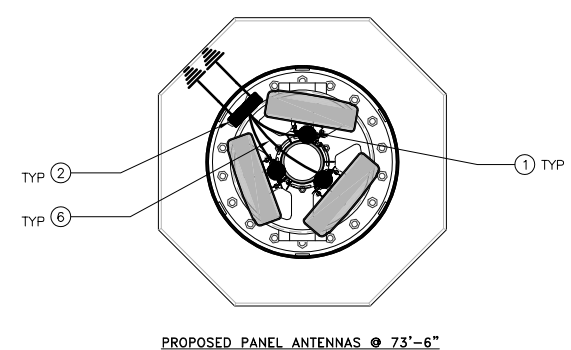
- ELECTRICAL CONTRACTOR SHALL ORDER GROUND RESISTANCE TESTING ONCE THE GROUND SYSTEM HAS BEEN INSTALLED; A QUALIFIED INDIVIDUAL, UTILIZING THE FALL OF POTENTIAL METHOD, SHOULD PERFORM THE TEST. THE REPORT WILL SHOW THE LOCATION OF THE TEST AND CONTAIN NO LESS THAN 9 TEST POINTS ALONG THE TESTING LINE, GRAPHED OUT TO SHOW THE PLATEAU.
- POINT GROUND TEST OR 3 POINT 62% TESTS WILL NOT BE ACCEPTED AS ALTERNATIVES TO THE AFORE MENTIONED GROUND TESTS. TEST SHALL BE PERFORMED WHILE THE COUNTERPOISE IS ISOLATED FROM THE A/C SYSTEM GRIDS AND EXISTING COMMUNICATIONS FACILITY.

**KEY NOTES:**

- CADWELD (TYP.) SEE SHEET E-4.
- ANTENNA GROUND BAR AT ANTENNA LEVEL AT ANTENNA MAST & TIED INTO EXISTING SITE GROUNDING SYSTEM (V.I.F.) SEE SHEET E-4.
- EQUIPMENT GROUND BAR TIED INTO EXISTING SITE GROUNDING SYSTEM (V.I.F.) SEE SHEET E-4.
- #2 AWG JUNCTION BOX GROUND TO EQUIPMENT GROUND BAR (TYP.) SEE SHEET E-4.
- #6 AWG EQUIPMENT CABINET GROUND TO EQUIPMENT GROUND BAR (TYP.) SEE SHEET E-4.
- #6 AWG ANTENNA MOUNT GROUND TO ANTENNA GROUND BAR (TYP.) SEE SHEET E-4.
- #6 AWG RRH/PENDANT MOUNT GROUND TO ANTENNA GROUND BAR (TYP.) SEE SHEET E-4.
- #2 AWG PPC GROUND TIED INTO EXISTING GROUNDING SYSTEM (V.I.F.) SEE SHEET E-4.
- #2 AWG AAV CUBE TIED INTO EXISTING GROUNDING SYSTEM (V.I.F.) SEE SHEET E-4.
- #2 AWG GENERATOR PLUG TIED INTO EXISTING GROUNDING SYSTEM (V.I.F.) SEE SHEET E-4.
- #2 AWG GROUND FROM ICE BRIDGE VERTICAL POST TO TIE INTO GROUND RING (TYP. OF ALL POSTS).
- MECHANICAL CONNECTION (TYP) SEE SHEET E-4.

NOTE:  
GROUND HYBRID CABLES TOP & BOTTOM USING UNIVERSAL 1-5/8" GROUNDING STRAP, PART #252172

SYMBOL	DESCRIPTION
	COPPER GROUND ROD
	CADWELD
	MECHANICAL CONNECTION
	TEST WELL
	GROUND BAR
	GROUND WIRE
	#2 AWG GROUND RING
	FIELD VERIFY & TIE INTO EXISTING GROUNDING SYSTEM



24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0"  
ANTENNA SCHEMATIC GROUNDING PLAN 2

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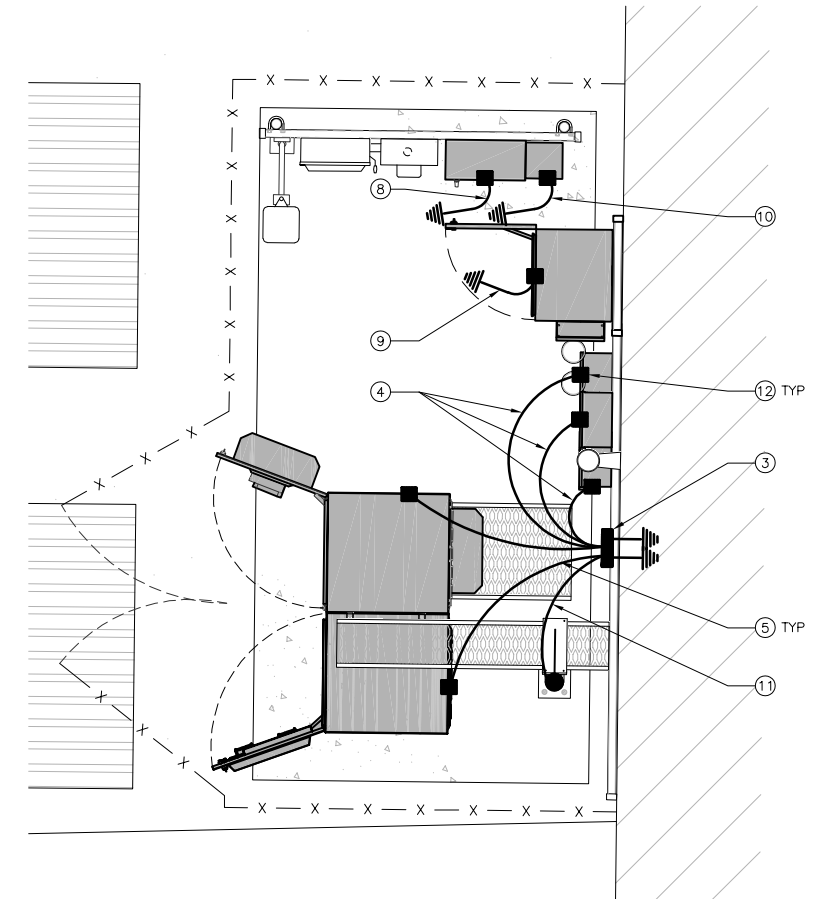
03-16-2022

RYAN MCDANIEL  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
40630  
EXPIRES 01-09-2023

TITLE  
SCHEMATIC GROUNDING PLANS

SHEET  
**E-3**

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EQUIPMENT SCHEMATIC GROUNDING PLAN 1

PRCT120220827

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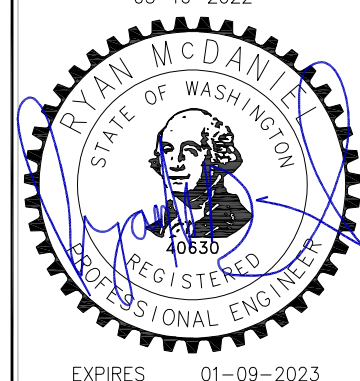
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**TITLE**  
**GROUNDING DETAILS**

**SHEET**  
**E-4**

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11"x17" SCALE: N.T.S.

**NOT USED 9**

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

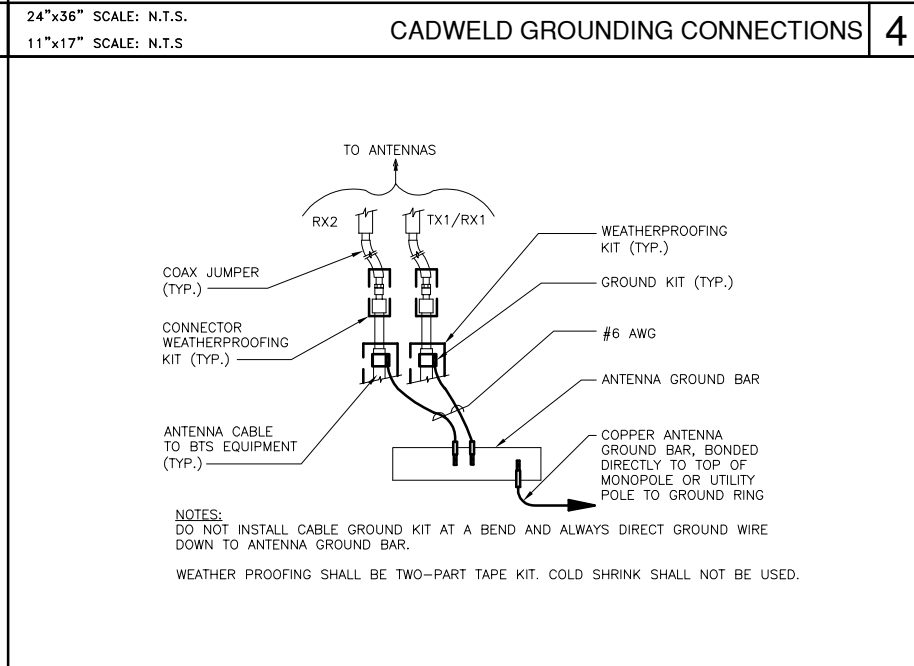
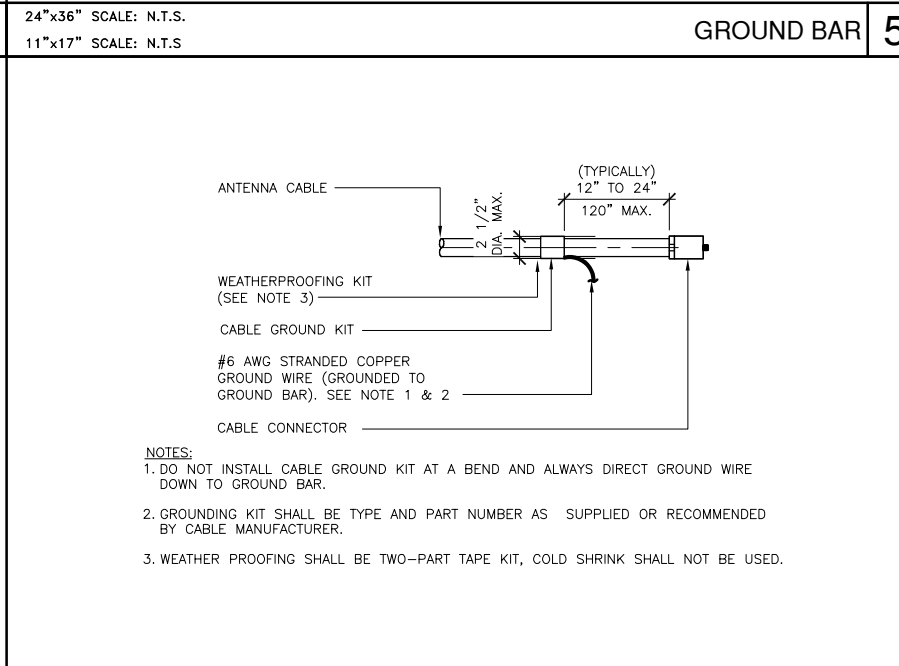
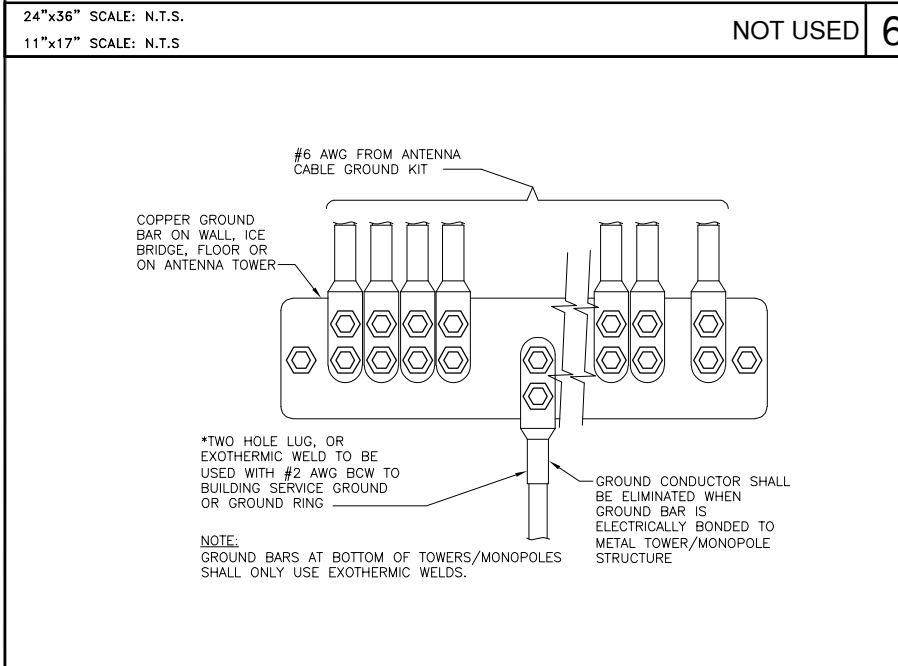
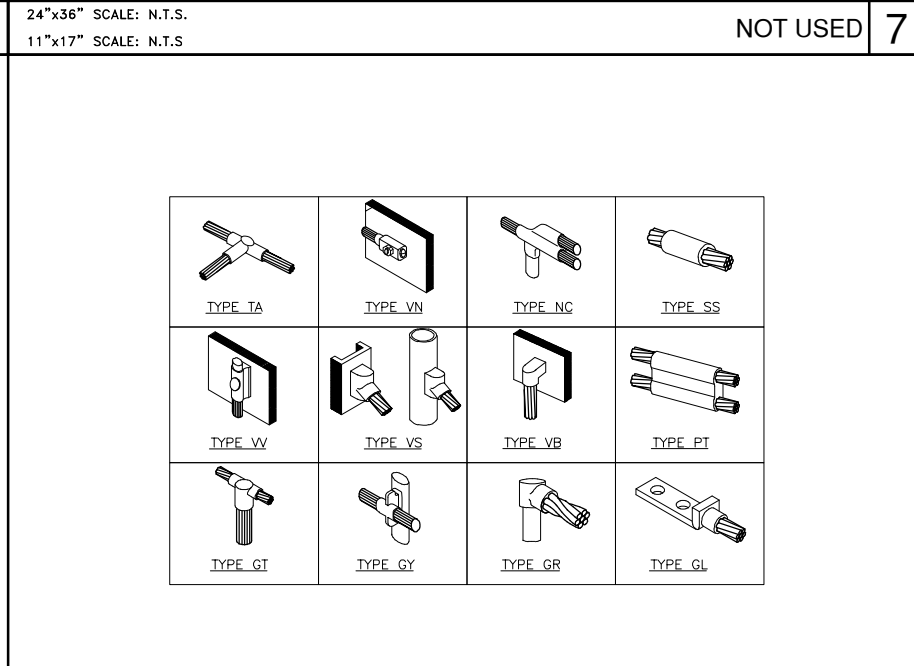
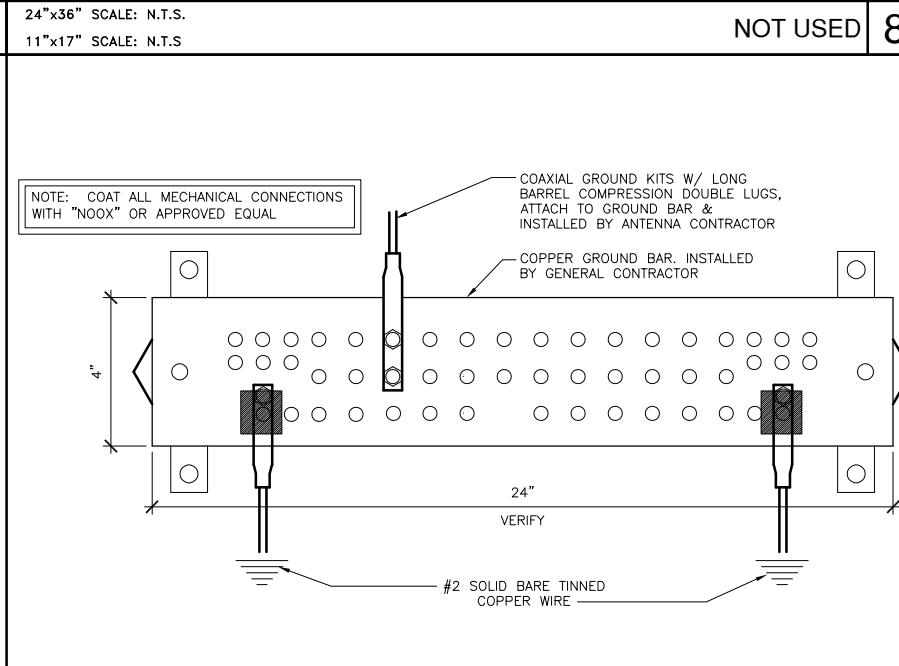
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24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

**NOT USED 6**



24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

**GROUNDWIRE INSTALLATION 3**

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

**CABLE GROUND KIT CONNECTIONS 2**

24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

**GROUNDING CABLE CONNECTIONS 1**



**REFERENCES:**

THE CONTRACTOR IS RESPONSIBLE FOR REVIEWING AND UNDERSTANDING THE REFERENCED CODES AND STANDARDS. ALL REFERENCES MUST BE CURRENT WITHIN THE LAST FIVE YEARS. THE FOLLOWING CODES AND STANDARDS ARE REFERENCED IN THE STRUCTURAL NOTES:

- ASTM A6 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR ROLLED STRUCTURAL STEEL BARS, PLATES, SHAPES, AND SHEET PILING
- ASTM A36 STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL
- ASTM A53 STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED AND SEAMLESS
- ASTM A123 STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS
- ASTM A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT DIP) ON IRON AND STEEL HARDWARE
- ASTM A307 STANDARD SPECIFICATION FOR CARBON STEEL BOLTS AND STUDS, 60 000 PSI TENSILE STRENGTH
- ASTM A325 STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED, 120/105 KSI MINIMUM TENSILE STRENGTH
- ASTM A490 STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, ALLOY STEEL, HEAT TREATED, 150 KSI MINIMUM TENSILE STRENGTH
- ASTM A500 STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING IN ROUNDS AND SHAPES
- ASTM A563 STANDARD SPECIFICATION FOR CARBON AND ALLOY STEEL NUTS
- ASTM A568 STANDARD SPECIFICATION FOR STEEL, SHEET, CARBON, STRUCTURAL, AND HIGH-STRENGTH, LOW-ALLOY, HOT-ROLLED AND COLD-ROLLED, GENERAL REQUIREMENTS FOR
- ASTM A572 STANDARD SPECIFICATION FOR HIGH-STRENGTH LOW-ALLOY COLUMBIUM-VANADIUM STRUCTURAL STEEL
- ASTM A780 STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT DIP GALVANIZED COATINGS
- ASTM A992 STANDARD SPECIFICATION FOR STRUCTURAL STEEL SHAPES
- ASTM B633 STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON AND STEEL
- ASTM B695 STANDARD SPECIFICATION FOR COATINGS OF ZINC MECHANICALLY DEPOSITED ON IRON AND STEEL
- ASTM F436 STANDARD SPECIFICATION FOR HARDENED STEEL WASHERS

AISC MANUAL OF STEEL CONSTRUCTION

ASCE 07 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES  
 AWS D1.1 STRUCTURAL WELDING CODE – STRUCTURAL STEEL  
 INTERNATIONAL BUILDING CODE

**GENERAL NOTES:**

1. PLANS, SECTIONS, AND DETAILS ARE NOT TO BE SCALED FOR DETERMINATION OF QUANTITIES, LENGTHS, OR FIT OF MATERIALS.
2. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS, SPECIFICATIONS, AND REFERENCES AS INDICATED IN THESE NOTES.
3. ALL WORK DESCRIBED BY THESE DRAWINGS SHALL BE PERFORMED BY A QUALIFIED CONTRACTOR WITH A MINIMUM OF 5 YEARS OF PAST EXPERIENCE IN THE WORK BEING PERFORMED.
4. THESE STRUCTURAL NOTES PROVIDE STANDARDS FOR MATERIALS AND WORKMANSHIP FOR THE STRUCTURAL PORTION OF THE JOB. REFERENCE THE ARCHITECTURAL DRAWINGS FOR GENERAL NOTES WHICH ADDRESS REQUIREMENTS FOR THE CONTRACTOR, SAFETY, LIMITS OF SCOPE AND LIABILITY, AND EXPECTED WORKMANSHIP.
5. CONTRACTOR SHALL THOROUGHLY INSPECT AND SURVEY THE EXISTING STRUCTURE TO VERIFY DIMENSIONS, ELEVATIONS, FRAMING, ETC. WHICH AFFECT THE WORK SHOWN ON THE DRAWINGS.
6. DISCREPANCIES: THE CONTRACTOR SHALL INFORM GLOTEL IN WRITING, DURING THE BIDDING PER OF ANY DISCREPANCIES OR OMISSIONS ON THE DRAWINGS, THE SPECIFICATIONS, OR WITH RESPECT TO EXISTING CONDITIONS FROM THE SITE SURVEY. UPON RECEIPT OF SUCH INFORMATION, THE PROJECT REPRESENTATIVE WILL SEND WRITTEN INSTRUCTIONS TO ALL CONCERNED.

**SHOP DRAWINGS:**

1. ALL FABRICATION / SHOP DRAWINGS ARE TO BE REVIEWED FOR COMPLIANCE TO THE STRUCTURAL DRAWINGS AND SIGNED OFF BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION.

**BOLTS AND SCREWS:**

1. ALL CONNECTIONS OF STRUCTURAL STEEL MEMBERS SHALL BE MADE USING SPECIFIED HIGH STRENGTH ASTM A325 OR A490 BOLTS WITH THREADS EXCLUDED IN SHEAR PLANE. U-BOLTS ARE ASTM A307 WITH LOCKING DEVICE EXCEPT WHERE NOT APPLICABLE.
2. NUTS CONFORM TO ASTM A563. WASHERS CONFORM TO ASTM F436.
3. THREADED RODS CONFORM TO ASTM A36 UNLESS SPECIFIED OTHERWISE.
4. ANCHOR RODS CONFORM TO ASTM F1554.
5. FASTENERS SHALL BE INSTALLED IN PROPERLY ALIGNED HOLES.
6. ALL BOLTS AT EVERY CONNECTION SHALL BE INSTALLED SNUG FIT UNTIL THE SECTION IS FULLY COMPACTED, AND THEN TIGHTENED FURTHER BY AISC – "TURN OF THE NUT", TIGHTENING SHALL PROGRESS SYSTEMATICALLY.
7. BOLT LENGTHS UP TO AND INCLUDING FOUR DIAMETERS SHALL BE TENSIONED 1/3 TURN BEYOND SNUG FIT. BOLT LENGTHS OVER 4 DIAMETERS SHALL BE 1/2 TURN BEYOND SNUG FIT.
8. ALL BOLTED CONNECTIONS SHALL USE LOCK WASHERS.

**CORROSION CONTROL:**

1. ALL STEEL MEMBERS SHALL HAVE CORROSION CONTROL AS STATED BELOW:
  - STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED PER ASTM A123
  - FASTENERS AND HARDWARE SHALL BE HOT DIPPED GALVANIZED PER ASTM A153, ASTM B695 CLASS 50, OR BE ELECTRO-GALVANIZED PER ASTM B633. (A490 BOLTS SHALL NOT BE HOT DIPPED GALVANIZED)
  - GUYS STANDS SHALL BE PROTECTED IN ACCORDANCE WITH ASTM A475 OR A586 MINIMUM CLASS A COATING
  - GUY ANCHORAGE IN DIRECT CONTACT OF GROUND SHALL BE HOT DIPPED GALVANIZED PER ASTM A123
  - ALL REPAIRS SHALL BE PROTECTED IN ACCORDANCE WITH ASTM A780
2. ALL FIELD CUT SURFACES SHALL BE REPAIRED WITH (2) COATS OF A 95% ZINC RICH PAINT PER ASTM A780.
3. ALL DAMAGED SURFACES, WELDED AREAS AND AUTHORIZED NON-GALVANIZED MEMBERS OR PARTS (EXISTING OR NEW) SHALL BE PAINTED WITH (2) COATS OF ZINC RICH PAINT.
- 4.

**DESIGN CRITERIA:**

- 2018 INTERNATIONAL BUILDING CODE
- TIA 222

**SEISMIC DESIGN:**

LATITUDE = 47.181444  
 LONGITUDE = -122.296528  
 MAPPED PARAMETER,  $S_s = 0.996$  (USGS)  
 MAPPED PARAMETER,  $S_1 = 0.35$  (USGS)  
 RISK CATEGORY = III  
 IMPORTANCE FACTOR,  $I_e = 1.0$   
 SITE CLASS = D  
 SEISMIC DESIGN CATEGORY = D  
 AMPLIFICATION FACTOR,  $A_p = 1$   
 RESPONSE FACTOR,  $R_p = 2.5$

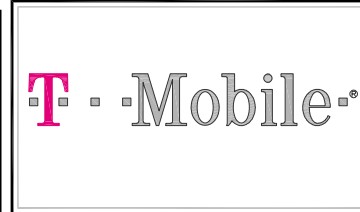
**WIND DESIGN CRITERIA:**

EXPOSURE = C  
 BASIC WIND SPEED,  $V = 105$  MPH  
 TOPOGRAPHIC FACTOR,  $K_{zt} = 0.95$   
 GROUND ELEVATION FACTOR,  $K_e = 1.0$   
 DIRECTIONALITY FACTOR,  $K_d = 0.95$   
 SHIELDING FACTOR,  $K_s = 0.90$   
 GUST FACTOR,  $G_H = 1.10$

All high strength bolting and on site welding to be done by a special inspector and reports given to City inspector prior to final.

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03-16-2022

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TITLE  
 STRUCTURAL NOTES

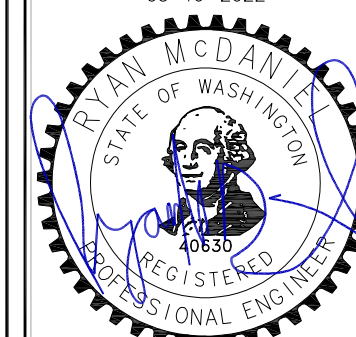
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**S-1**

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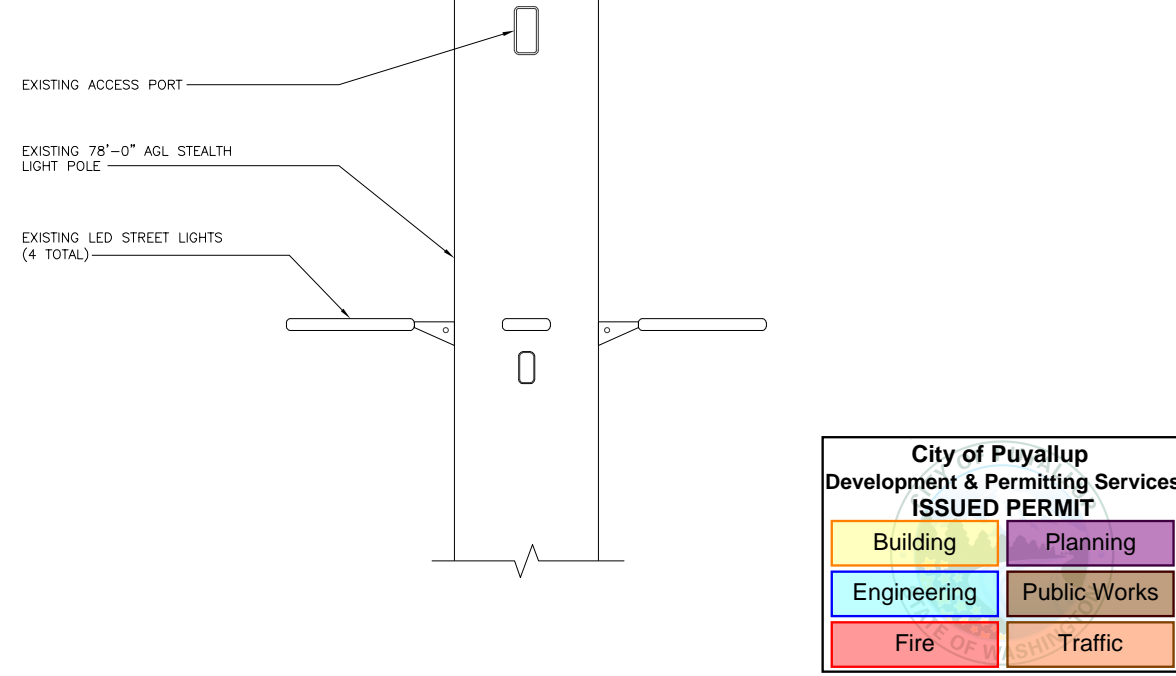
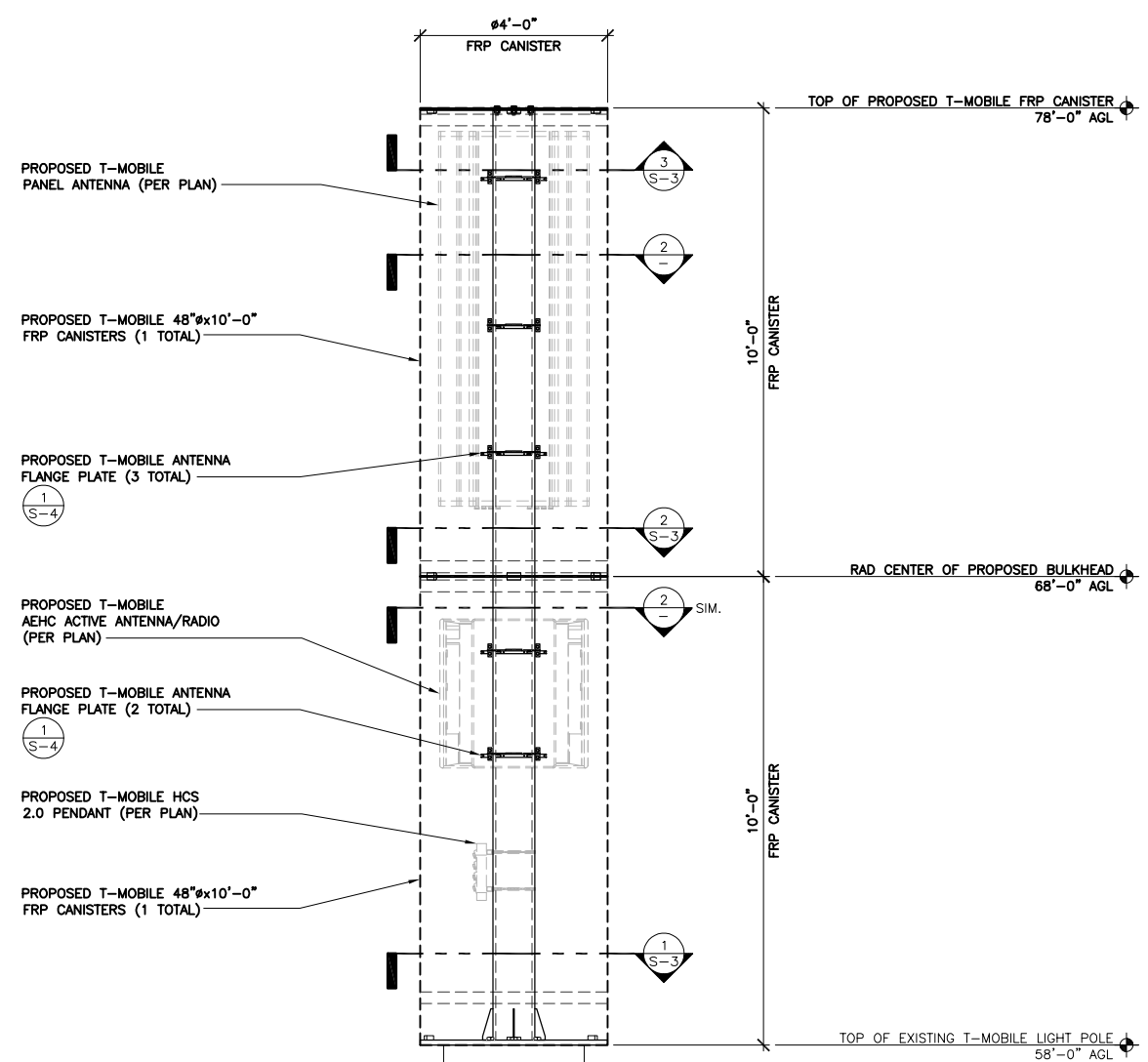
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FRP ANTENNA CANISTER DETAILS

SHEET

S-2

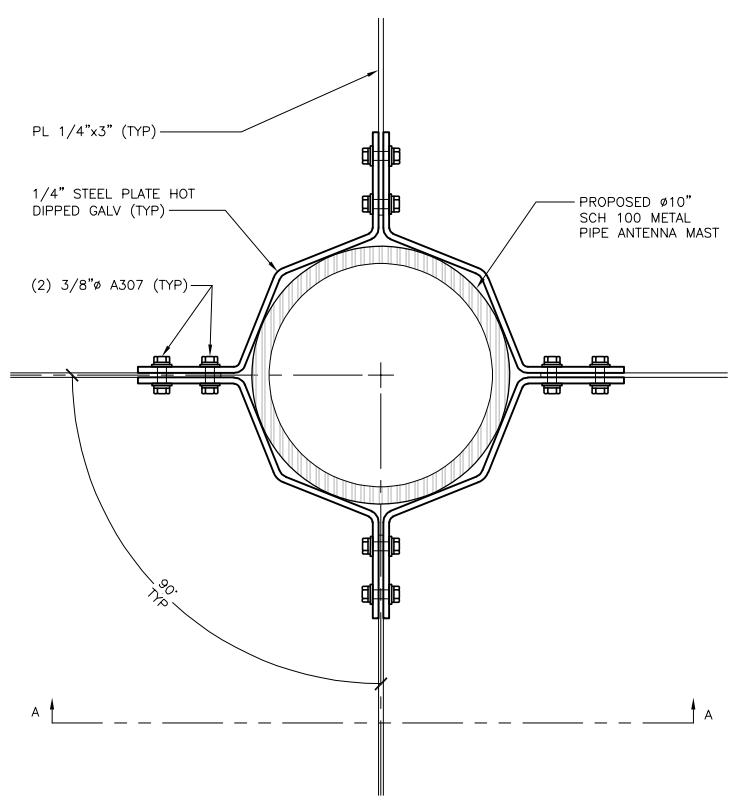
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NOTE:  
PROPOSED FRP CANISTERS TO BE PAINTED  
TO MATCH THE EXISTING LIGHT POLE.

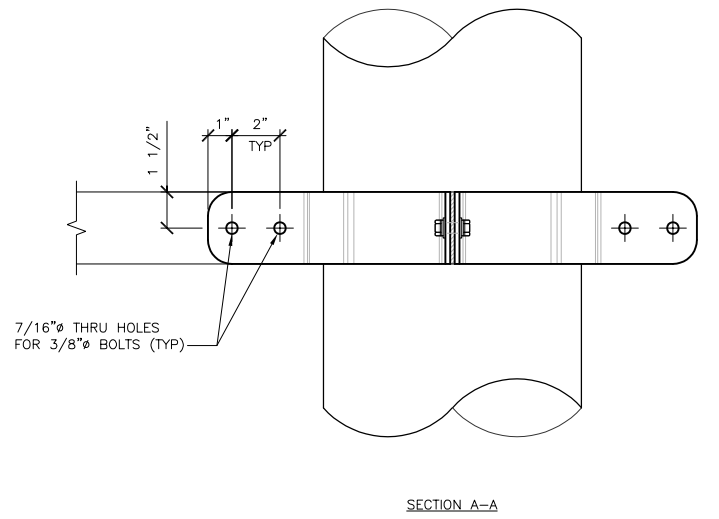


**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

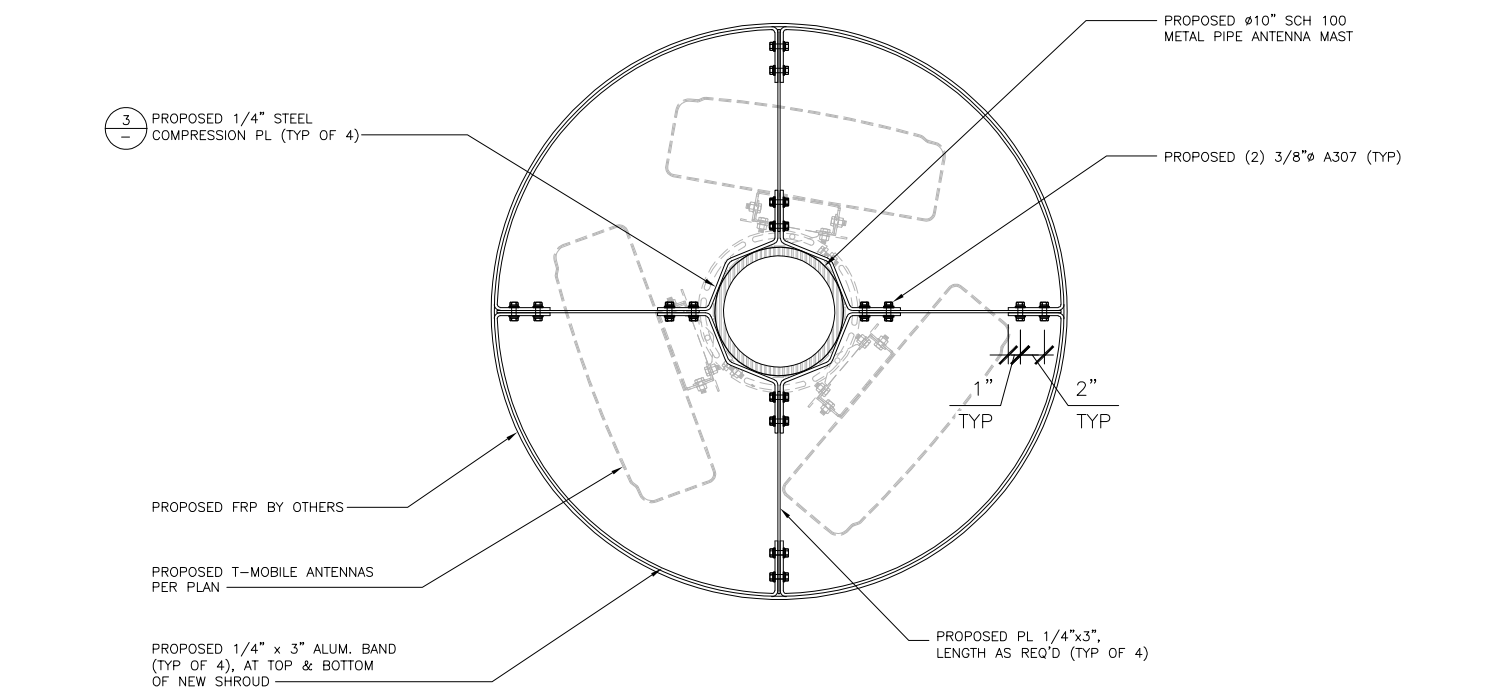
Building	Planning
Engineering	Public Works
Fire	Traffic



24"x36" SCALE: 3" = 1'-0"  
11"x17" SCALE: 1-1/2" = 1'-0" **FRP CANISTER CONNECTION 3**



24"x36" SCALE: 3" = 1'-0"  
11"x17" SCALE: 1-1/2" = 1'-0" **TYPICAL COMPRESSION PLATE 4**



24"x36" SCALE: 1" = 1'-0"  
11"x17" SCALE: 1/2" = 1'-0" **FRP ANTENNA CANISTER PLAN 2**

24"x36" SCALE: 1/2" = 1'-0"  
11"x17" SCALE: 1/4" = 1'-0" **FRP ANTENNA CANISTER ELEVATION 1**

**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

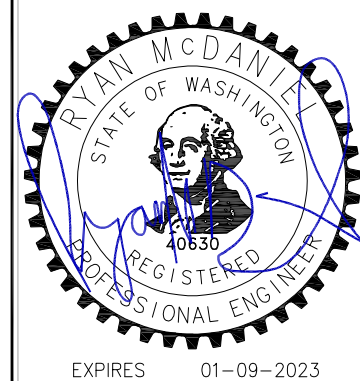
**SE04823C**  
**WASHINGTON STATE**  
**FAIR/LIGHT POLE**

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

**REVISIONS**

REV.	DATE	DESCRIPTION	BY
A	01/21/22	ISSUED FOR 90% CD REVIEW	RLD
0	03/16/22	ISSUED FOR 100% CONSTRUCTION	RLD

03-16-2022

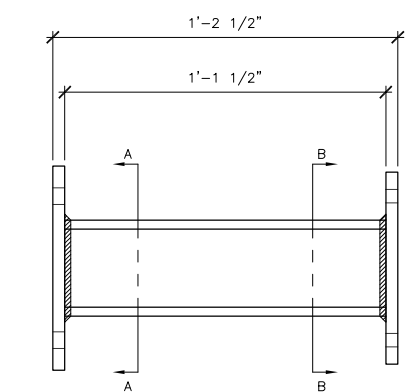


TITLE  
FRP RRH UNIT CANISTER DETAILS

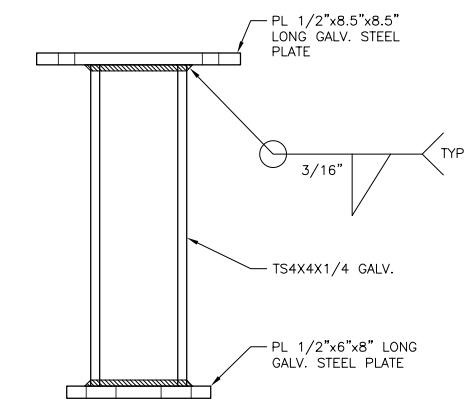
SHEET  
**S-2.1**

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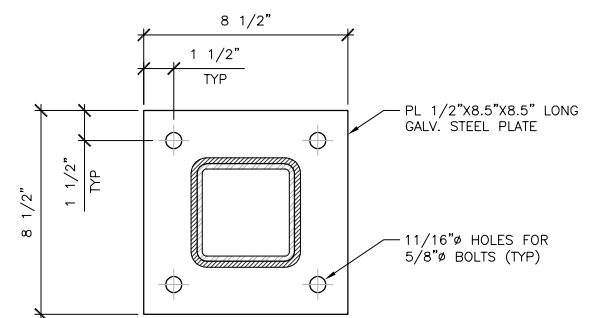
PRCT120220827



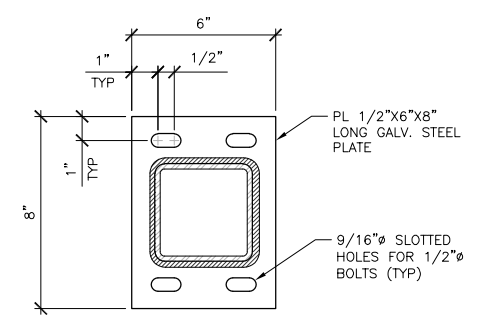
SIDE VIEW



TOP VIEW



SECTION A-A



SECTION B-B

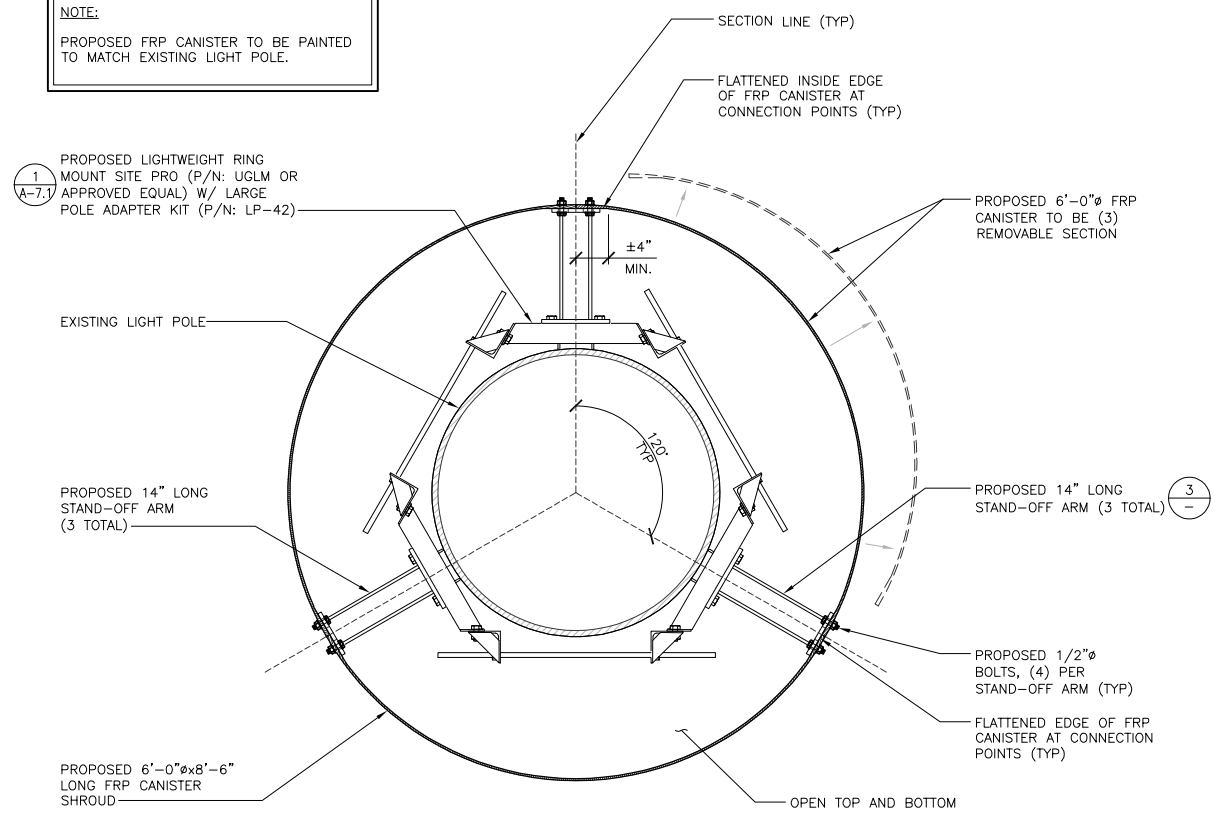
24"x36" SCALE: N.T.S.  
11"x17" SCALE: N.T.S.

NOT USED 4

24"x36" SCALE: 3" = 1'-0"  
11"x17" SCALE: 1-1/2" = 1'-0"

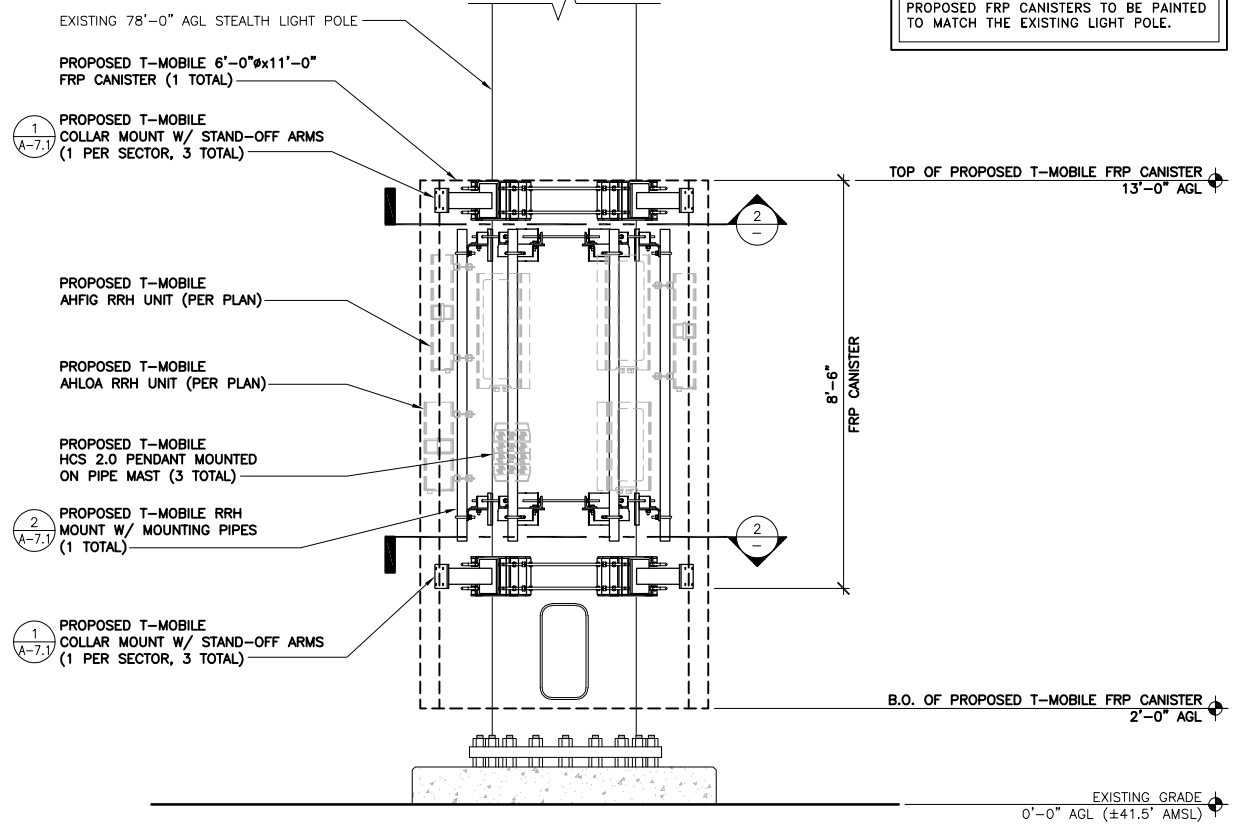
STAND-OFF ARM 3

**NOTE:**  
PROPOSED FRP CANISTER TO BE PAINTED TO MATCH EXISTING LIGHT POLE.



FRP RRH UNIT CANISTER PLAN 2

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



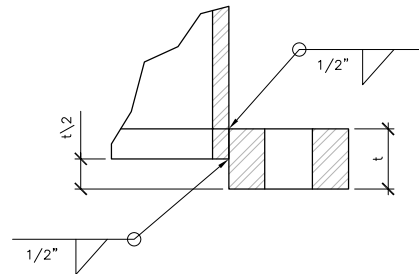
FRP RRH CANISTER ELEVATION 1

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

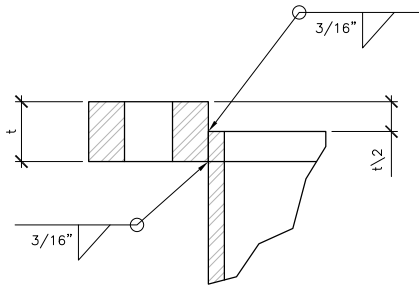


**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

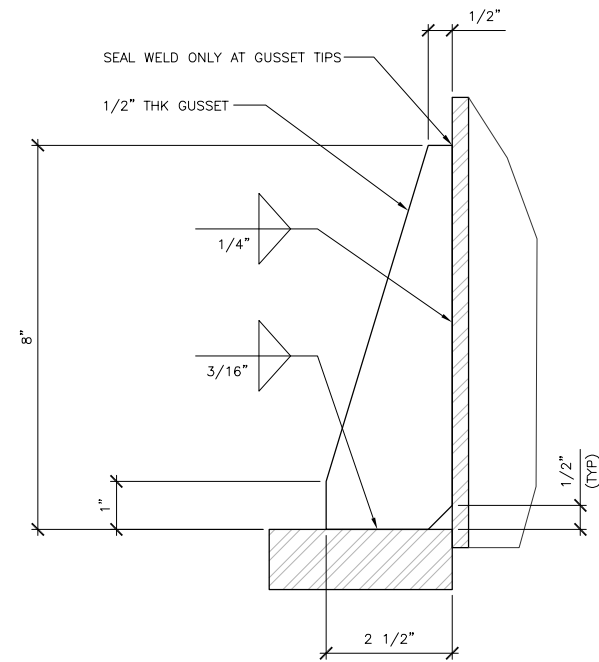
Building	Planning
Engineering	Public Works
Fire	Traffic



SECTION A-A



SECTION B-B



SECTION C-C

24"x36" SCALE: 6" = 1'-0"  
11"x17" SCALE: 3" = 1'-0"

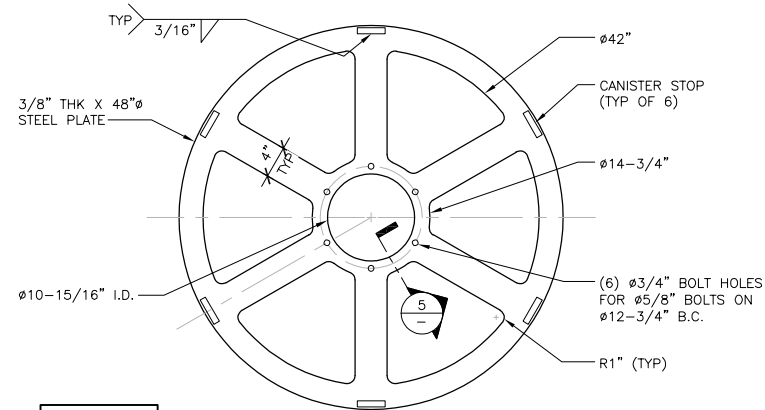
MAST & PLATE CONNECTION 6

24"x36" SCALE: 6" = 1'-0"  
11"x17" SCALE: 3" = 1'-0"

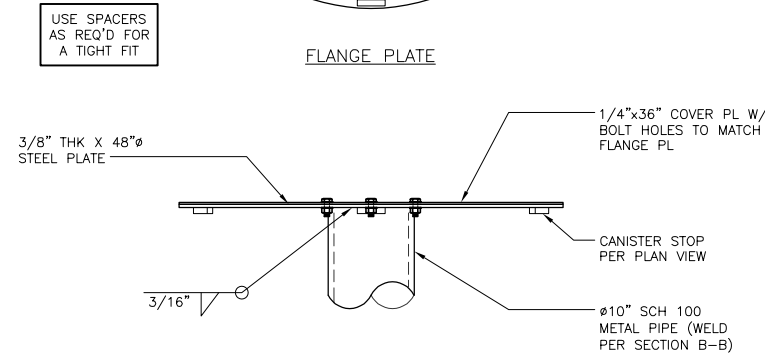
MAST & PLATE CONNECTION 5

24"x36" SCALE: 3" = 1'-0"  
11"x17" SCALE: 1-1/2" = 1'-0"

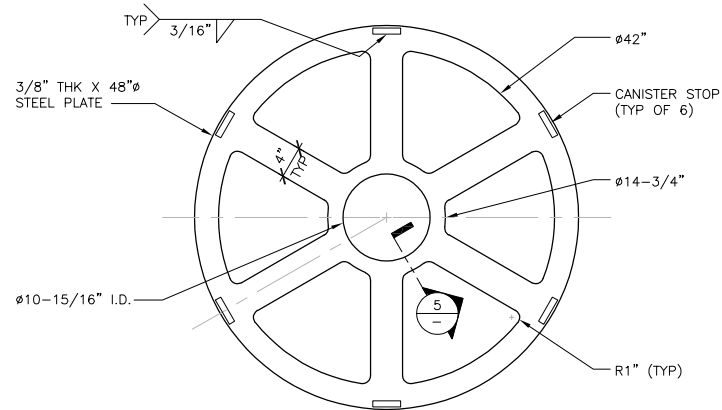
TYPICAL GUSSET PLATE CONNECTION 4



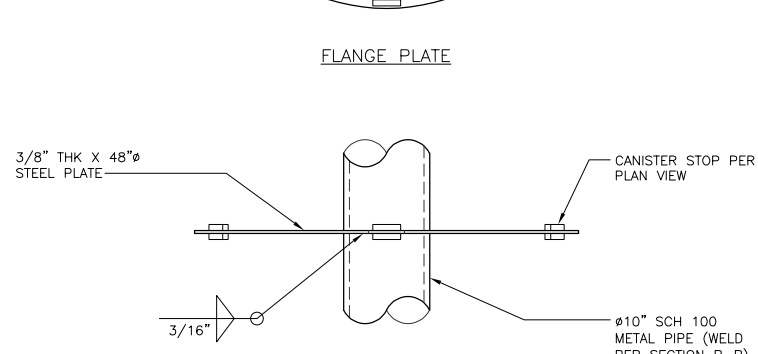
FLANGE PLATE



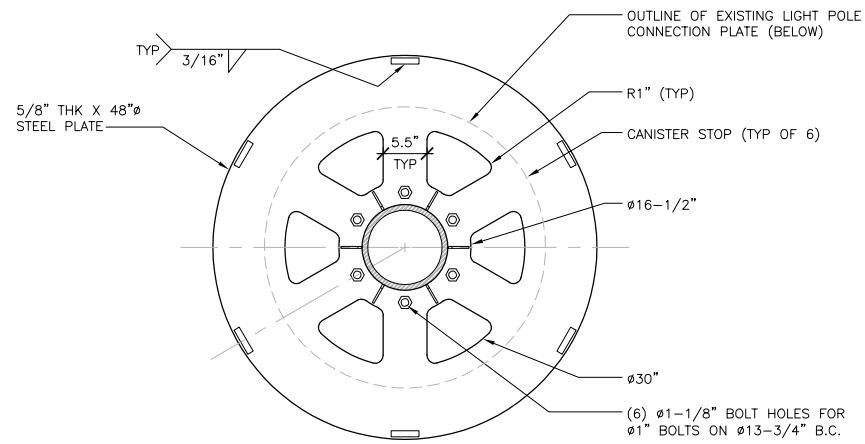
ELEVATION VIEW



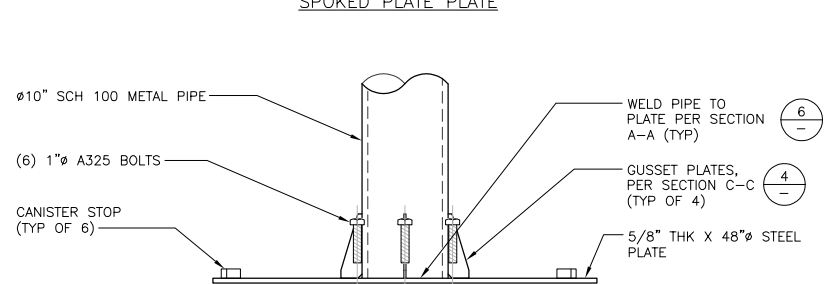
FLANGE PLATE



ELEVATION VIEW



SPOKED PLATE



ELEVATION VIEW

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

TOP CANISTER PLATE CONNECTION 3

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

BULKHEAD CONNECTION 2

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

ANTENNA MAST & STEEL PLATE CONNECTION @ POLE 1

T-Mobile

RYKA CONSULTING

5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

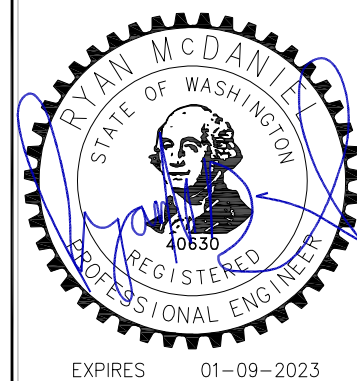
**SE04823C**  
WASHINGTON STATE  
FAIR/LIGHT POLE

902 S MERIDIAN  
PUYALLUP, WA 98371  
PIERCE COUNTY

REVISIONS

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03-16-2022



TITLE  
STRUCTURAL DETAILS

SHEET

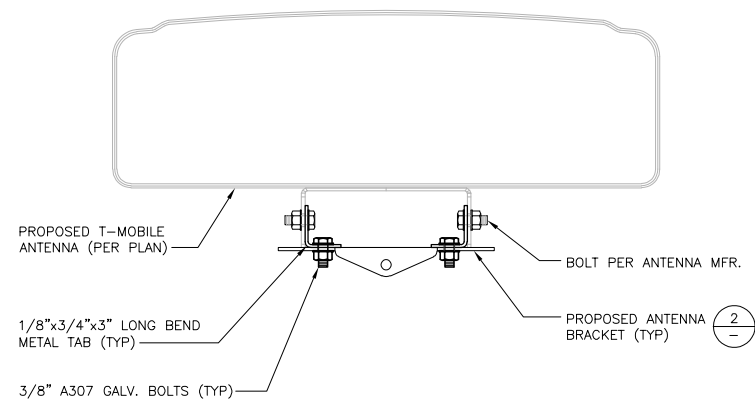
**S-3**

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PRCT120220827

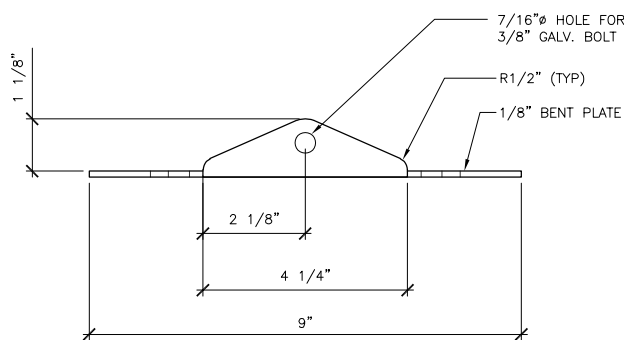
City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

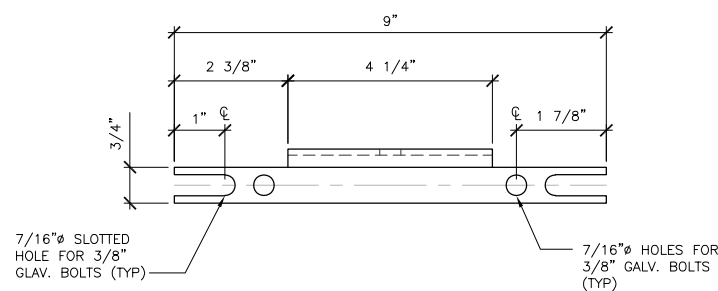


24"x36" SCALE: 3" = 1'-0"  
11"x17" SCALE: 1-1/2" = 1'-0"

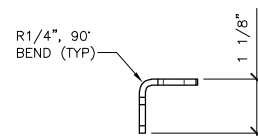
ANTENNA MOUNTING **3**



PLAN VIEW



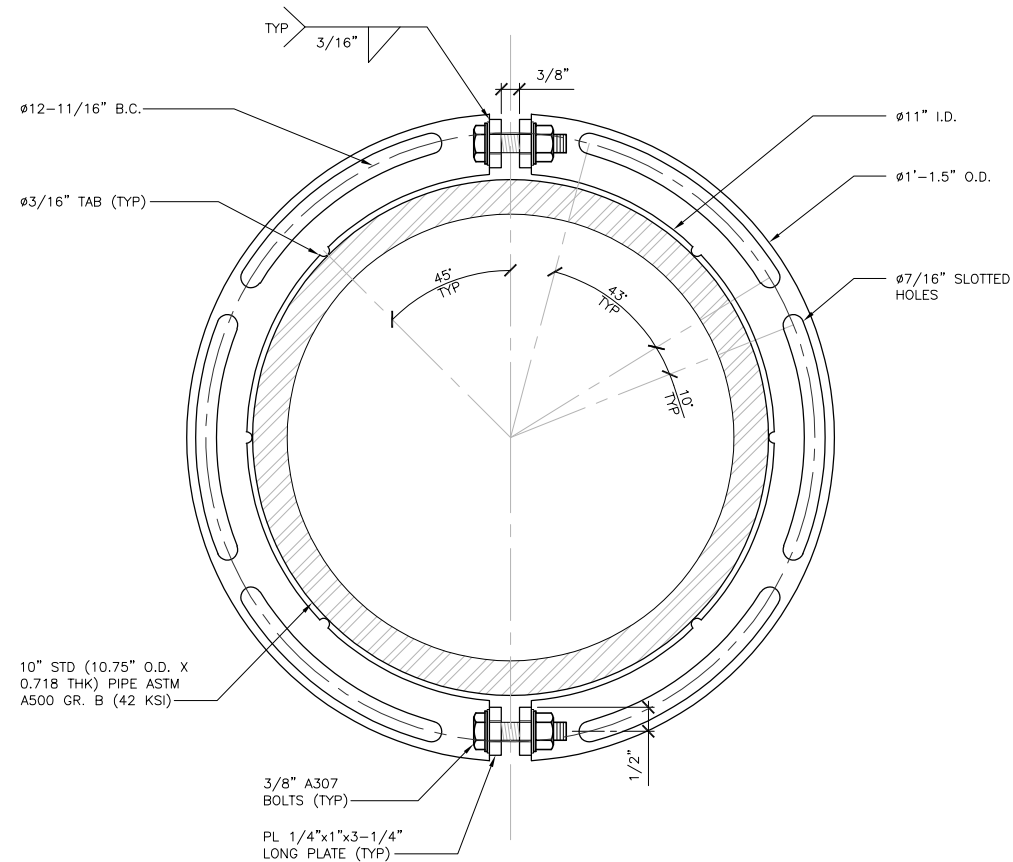
FRONT VIEW



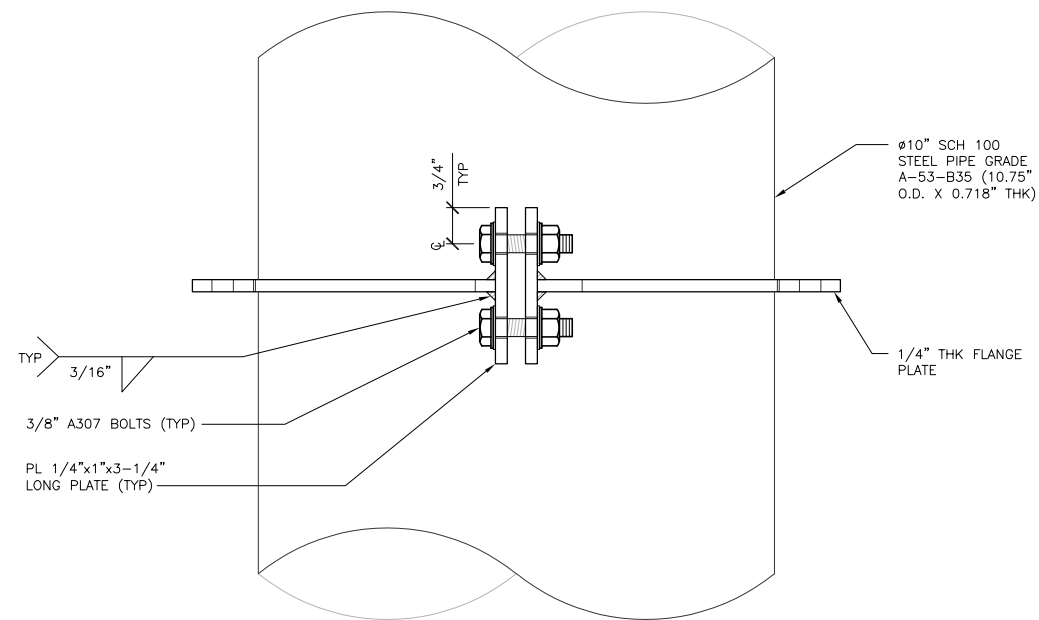
SIDE VIEW

24"x36" SCALE: 6" = 1'-0"  
11"x17" SCALE: 3" = 1'-0"

ANTENNA MOUNTING BRACKET **2**



PLAN VIEW



ELEVATION VIEW

24"x36" SCALE: 6" = 1'-0"  
11"x17" SCALE: 3" = 1'-0"

ANTENNA FLANGE PLATE **1**

T-Mobile

RYKA CONSULTING

5628 AIRPORT WAY  
SOUTH, SUITE 330  
SEATTLE, WA 98108

RFDS VERSION 2

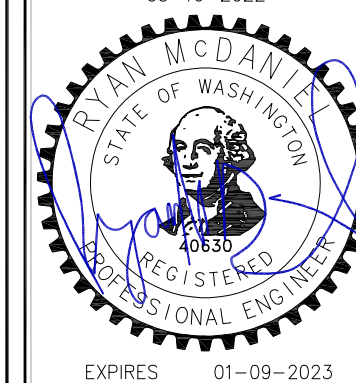
**SE04823C**  
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03-16-2022



TITLE  
STRUCTURAL DETAILS

SHEET

**S-4**

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PRCT120220827