PROJECT RENDER



SHEET INIDEX

SHEEL	INDEX
DAS 1.10	INFORMATION SHEET 1 (THIS SHEET)
DAS 1.20	INFORMATION SHEET 2
DAS 1.40	RISER DIAGRAM
DAS 2.00	LEVEL 0
DAS 2.01	LEVEL 1
DAS 2.02	LEVEL 2
DAS 2.03	LEVEL 3
DAS 2.04	ROOF
DAS 3.20	HEADEND LAYOUT
DAS 3.21	TYPICAL FA / DAS WIRING
DAS 3.24	EQUIPMENT MOUNTING EXAMPLES
DAS 3.25	VERTICAL PATHWAY ENCLOSURE
DAS 3.30	TYPICAL INDOOR ANTENNA MOUNTING
DAS 3.40	TYPICAL DONOR ANTENNA MOUNTING

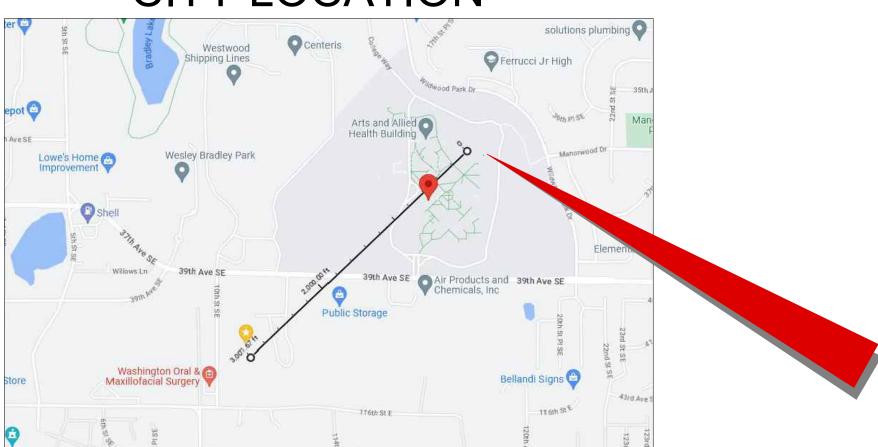
CODE REQUIREMENTS

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE BUILDING/DWELLING, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND FIRE/LIFE SAFETY CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THE LOCAL GOVERNING AUTHORITIES CODES

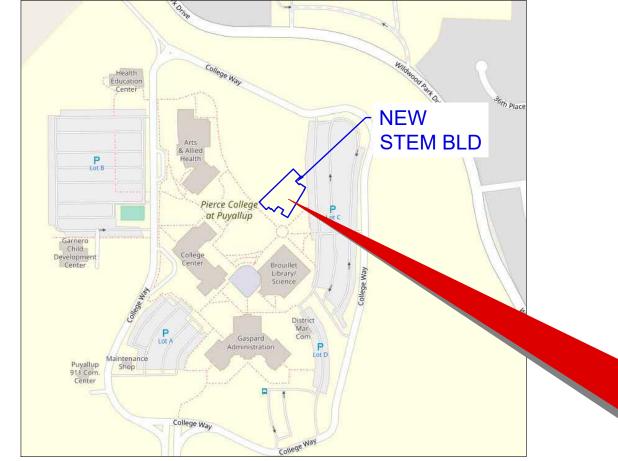
GENERAL NOTES

- ANY INFRASTRUCTURE REQUIRED FOR CONNECTING ERRCS COMPONENTS TO THE FIRE ALARM SYSTEM, TO INCLUDE BUT NOT LIMITED TO LOCAL JUNCTION BOXES AND SUPERVISORY PANELS, TO BE PROVIDED BY OTHERS.
- DEDICATED 120V/20A CIRCUIT HARDWIRED INTO THE BATTERY BACKUP UNIT (BBU)
- BIDIRECTIONAL AMPLIFIER (BDA) AND ASSOCIATED EQUIPMENT ARE SUPPLIED AS NEMA 4/3R AND SHALL BE WALL OR FLOOR MOUNTED.
- 4. SYSTEM HEADEND EQUIPMENT AND UPS TO BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM TO MONITOR THE SYSTEM PER 510.4.2.5 (THIS SHEET).
- MINIMUM BEND RADIUS ON ALL CONDUIT IS 6 TIMES DIAMETER.
- 6. MINIMUM BEND RADIUS ON FREE-AIR COAX IS 7"

CITY LOCATION

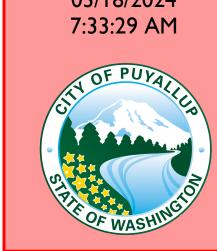






City of Puyallup Fire **REVIEWED** COMPLIANCE

DDrake 03/18/2024



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

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.

City of Puyallup **Development & Permitting Services ISSUED PERMIT** Building **Public Works** Engineering Traffic

Read Permit Conditions prior to calling for inspection.

WASHINGTON STATE IFC SECTION 510:

SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE

510.1 Emergency responder radio coverage in new buildings. All new buildings shall have approved radio coverage for emergency responders within the building based upon the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building. This section shall not require improvement of the existing public safety communication systems.

1. Where approved by the building official and the fire code official, a wired communication system in accordance with Section 907.2.13.2 shall be permitted to be installed or maintained in lieu of an

2. Where it is determined by the fire code official that the radio coverage system is not needed.

3. In facilities where emergency responder radio coverage is required and such systems, components or equipment required could have a negative impact on the normal operations of that facility, the fire code official shall have the authority to accept an automatically activated emergency responder radio coverage system.

510.2 Emergency responder radio coverage in existing buildings.

Existing buildings shall be provided with approved radio coverage for emergency responders as required in Chapter 11.

A construction permit for the installation of or modification to emergency responder radio coverage systems and related equipment is required as specified in Section 105.7.5. Maintenance performed in

510.4.2.3 Standby Power

Exceptions:

accordance with this code is not considered a modification and does not require a permit. Equipment required to provide emergency responder radio coverage shall be listed in accordance with UL 2524. Systems, components and equipment required to provide the emergency responder radio coverage system shall comply with Sections 510.4.1 through 510.4.2.8.

The building shall be considered to have acceptable emergency responder radio coverage when signal strength measurements in 95 percent of all areas on each floor of the building meet the signal strength requirements in Sections 510.4.1.1 and 510.4.1.2.

510.4.1.1 Minimum Signal Strength Into Building The minimum inbound signal strength shall be sufficient to provide usable voice communications throughout the coverage area as specified by the fire code official. The inbound signal level shall be a minimum of -95 dBm throughout the coverage area and sufficient to provide not less than a delivered audio quality (DAQ) of 3.0 or an equivalent signal-to-interference-plus-noise ratio (SINR) applicable to

the technology for either analog or digital signals. 510.4.1.2 Minimum Signal Strength Out of the Building The minimum outbound signal strength shall be sufficient to provide usable voice communications throughout the coverage area as specified by the fire code official. The outbound signal level shall be

sufficient to provide not less than a DAQ of 3.0 or an equivalent SINR applicable to the technology for either analog or digital signals. Signal strength shall be sufficient to meet the requirements of the applications being utilized by public safety for emergency operations through the coverage area as specified by the fire code official in

510.4.2 System design. The emergency responder radio coverage system shall be designed in accordance with Sections 510.4.2.1 through 510.4.2.8 and NFPA 1221.

510.4.2.1 Amplification systems and components. Buildings and structures that cannot support the required level of radio coverage shall be equipped with systems and components to enhance the public safety radio signals and achieve the required level of radio coverage specified in Sections 510.4.1 through 510.4.1.3. Public safety communications enhancement systems utilizing radio-frequency-emitting devices and cabling shall be approved by the fire code official. Prior to installation, all RF-emitting devices shall have the certification of the radio licensing authority and be suitable for public safety use.

510.4.2.2 Technical criteria. The fire code official shall maintain a document providing the specific technical information and requirements for the emergency responder communications coverage system. This document shall contain, but not be limited to, the various frequencies required, the location of radio sites, the effective radiated power of radio sites, the maximum propagation delay in microseconds, the applications being used and other supporting technical information necessary for system design.

Emergency responder radio coverage systems shall be provided with dedicated standby batteries or provided with 1-HOUR standby batteries and connected to the facility generator power system in

accordance with Section 1203. The standby power supply shall be capable of operating the emergency responder radio coverage system at 100-percent system capacity for a duration of not less than 12

510.4.2.4 Signal booster requirements. If used, signal boosters shall meet the following requirements: 1. All signal booster components shall be a National Electrical Manufacturer's Association (NEMA) 4,

2. Battery systems used for the emergency power source shall be contained in a NEMA 3R or higher-rated cabinet,

IP656-type waterproof cabinet or equivalent.

3. Equipment shall have FCC or other radio licensing authority certification and be suitable for public safety

4. Where a donor antenna exists, isolation shall be maintained between the donor antenna and all inside

antennas to not less than 20 dB greater than the system gain under all operating conditions.

5. Bi-directional amplifiers (BDAs) active RF emitting devices used in emergency responder radio coverage systems shall have oscillation prevention built-in oscillation detection and control circuitry.

6. The installation of amplification systems or systems that operate on or provide the means to cause interference on any emergency responder radio coverage networks shall be coordinated and approved by the fire code official.

The emergency responder radio enhancement system shall be monitored by a listed fire alarm control unit, or where approved by the fire code official, shall sound an audible signal at a constantly attended on-site location. Automatic supervisory signals shall include the following:

Loss of normal AC power supply. System battery charger(s) failure.

Malfunction of the donor antenna(s). Failure of active RF-emitting device(s).

Low-battery capacity at 70-percent reduction of operating capacity. Failure of critical system components

The communications link between the fire alarm system and the emergency responder radio enhancement RF oscillation alarm.

510.4.2.6 Additional Frequencies and Change of Frequencies The emergency responder radio coverage system shall be capable of modification or expansion in the event frequency changes are required by the FCC or other radio licensing authority, or additional frequencies are made available by the FCC or other radio licensing authority.

The fire code official shall have the authority to require "as-built" design documents and specifications for emergency responder communications coverage systems. The documents shall be in a format acceptable to the fire code official.

510.4.2.8 Radio Communication Antenna Density Systems shall be engineered to minimize the near-far effect. Radio enhancement system designs shall include sufficient antenna density to address reduced gain conditions.

Class A narrow band signal booster devices with independent AGC/ALC circuits per channel.

Systems where all portable devices within the same band use active power control features.

The installation of the public safety radio coverage system shall be in accordance with NFPA 1221 and Sections 510.5.1 through 510.5.5.

Amplification systems capable of operating on frequencies licensed to any public safety agency by the FCC shall not be installed without prior coordination and approval of the fire code official. 510.5.2 Minimum qualifications of personnel.

The minimum qualifications of the system designer and lead installation personnel shall include:

1. A valid FCC-issued general radio operators license; and

2. Certification of in-building system training issued by a nationally recognized organization, school or a certificate issued by the manufacturer of the equipment being installed.

These qualifications shall not be required where demonstration of adequate skills and experience satisfactory to the fire code official is provided.

510.5.3 Acceptance test procedure. Where an emergency responder radio coverage system is required, and upon completion of installation, the building owner shall have the radio system tested to verify that two-way coverage on each floor of the building is not less than 95 per-cent. The test procedure shall be conducted as follows:

1. Each floor of the building shall be divided into a grid of 20 approximately equal test areas.

2. The test shall be conducted using a calibrated portable radio of the latest brand and model used by the agency talking through the agency's radio communications system or equipment approved by the fire code official.

3. Failure of more than one test area shall result in failure of the test.

4. In the event that two of the test areas fail the test, in order to be more statistically accurate, the floor shall be

permitted to be divided into 40 equal test areas. Failure of not more than two non-adjacent test areas shall not result in failure of the test. If the system fails the 40 area test, the system shall be altered to meet the 95 percent 5. A test location approximately in the center of each test area shall be selected for the test, with the radio

radio communications system. Once the test location has been selected, that location shall represent the entire test area. Failure in the selected test location shall be considered to be a failure of that test area. Additional test locations shall not be permitted. 6. The gain values of all amplifiers shall be measured and the test measurement results shall be kept on file with the building owner so that the measurements can be verified during annual tests. In the event that the

enabled to verify two-way communications to and from the outside of the building through the public agency's

measurement results become lost, the building owner shall be required to rerun the acceptance test to reestablish the gain values.

7. As part of the installation, a spectrum analyzer or other suitable test equipment shall be utilized to ensure spurious oscillations are not being generated by the subject signal booster. This test shall be conducted at the time of installation and at subsequent annual inspections.

8. Systems incorporating Class B signal-booster devices or Class B broadband fiber remote devices shall be tested using two portable radios simultaneously conducting subjective voice quality checks. One portable radio shall be positioned not greater than 10 feet (3048 mm) from the indoor antenna. The second portable radio shall be positioned at a distance that represents the farthest distance from any indoor antenna. With both portable radios simultaneously keyed up on different frequencies within the same band, subjective audio testing shall be conducted and comply with DAQ levels as specified in Sections 510.4.1.1 and 510.4.1.2.

The emergency responder radio coverage system installation and components shall also comply with all applicable federal regulations including, but not limited to, FCC 47 CFR Part 90.219.

510.5.5 Mounting of the donor antenna(s). To maintain proper alignment with the system designed donor site, donor antennas shall be permanently affixed on the highest possible position on the building or where approved by the fire code official. A clearly visible sign stating "movement or repositioning of this antenna is prohibited without approval from the fire code official." The antenna installation shall be in accordance with the applicable requirements in the International Building Code for weather protection of the building envelope.

The emergency responder radio coverage system shall be maintained operational at all times in accordance with Sections 510.6.1 through 510.6.4.

510.6.1 Testing and proof of compliance. The owner of the building or owner's authorized agent shall have the emergency responder radio coverage system inspected and tested annually or where structural changes occur including additions or remodels that could materially change the original field performance tests. Testing shall consist of the following:

1. In-building coverage test as described in Section 510.5.3 or as required by the fire code official.

2. Signal boosters shall be tested to verify that the gain is the same as it was upon initial installation and acceptance or set to optimize the performance of the system.

3. Backup batteries and power supplies shall be tested under load of a period of 1 hour to verify that they will properly operate during an actual power outage. If within the 1-hour test period the battery exhibits symptoms of failure, the test shall be extended for additional 1-hour periods until the integrity of the battery can be determined.

4. Other active components shall be checked to verify operation within the manufacturers specification.

5. At the conclusion of the testing, a report, which shall verify compliance with Section 510.5.3, shall be submitted to the fire code official.

The building owner shall modify or expand the emergency responder radio coverage system at their expense in the event frequency changes are required by the FCC or additional frequencies are made available by the FCC. Prior approval of a public safety radio coverage system on previous frequencies does not exempt this section. 510.6.3 Nonpublic Safety System

Where other nonpublic safety amplification systems installed in buildings reduce the performance or cause interference with the emergency responder communications coverage system, the nonpublic safety amplification system shall be corrected or removed.

510.6.4 Field Testing Agency personnel shall have the right to enter onto the property at any reasonable time to conduct field testing to verify the required level of radio coverage. (As amended 6/4/20220, effective 7/1/2023)

SHOP DRAWING



P. O. Box 485 - 608 Chestnut St Clarkston, WA 99403 Tel: 800-905-3345 Fax: 425-529-9662 e-mail: info@dasconnexion.ne

System Designer: Manny Marcel FCC GROL: PG-1-17584 Commscope: G619658US2015 **ADRF Tech PSR78-040416** DAC Connexion: 081417

iBwave Lev 1: 042619

Revisions Cust. Reg. Changes Cust. Reg. Changes Cust. Req. Changes

Date Issued: 06/14/2023 Dwn By: MM Size: E1 - 30x42 Do Not Scale Drawing

> PIERCE - STEM **ERRCS PLAN** DAS-1.10

LEGENDS / EQUIPMENT LIST

#	≪ ⊗	Antenna - Directional Outdoor	Westell	CSI-AY/746-896/11	Directional Outdoor Yagi Antenna - 756-896 Mhz. 11 dBi Gain	1
		Antenna - Indoor Omnidirectional	DAS Connexion	OMNI	Omnidirectional In-Building Antenna System - 140-960z MHz and 1710–2700 MHz - KSR-195 Pigtail - N-Female	11
CONCIONA S	••	Directional Coupler / Tapper	DAS Connexion	SPL-04YXX	Directional Coupler or Tapper, 140-960 MHz, 3-Type N Female connectors, 500 watt max. power, indoor. Specify db coupling	10
POMER SPLITTER	◆	Splitter	DAS Connexion	SPL-YXX	Splitter, 140-960 MHz, 3-Type N Female connectors, 500 watt max. power, indoor. Specify db coupling	N/A
Combe Grader III		Bi-Directional Amplifier	Comba	RX78V3-A3327P0-S0	Class A Public Safety Dual Band Digital Repeater, 700/800 MHz, Nema 4 Enclosure, NFPA Compliant	1
Comba		UPS / Power Supply	Comba	BBUV3-LPF48060	Battery Backup Unit for Public Safety, 60AH, NEMA Compliant	1
USTINIO MERCINA	SA	Surge Arrestor	DAS Connexion	CSP1NB90	Lightning and Surge Protector	1
Not Shown		Coax Grounding Kit	Commscope	SG12-12B2U	1/2" Coax grounding kit for Donor Coax	1
	-R	Donor Cable	DAS Connexion	LDF4RK-50A	HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket	20'
		Cable	DAS Connexion	AL4RPV-50	HELIAX® Plenum Rated Air Dielectric Coaxial Cable, corrugated aluminum, 1/2 in, off white PVC jacket	900'
		Cable	DAS Connexion	CA50-NMNM18-RG142	18" Coax Jumper	6
Not	t Shown	Connector	DAS Connexion	CON-NMS-001	Type N Male for 1/2" Cable	A/R
Not	t Shown	Signs	DAS Connexion	51057	Sign Package for Project	1

SOUTH SOUND 911 FREQUENCY LIST ORTING SIMULCAST

FREQUENCY
769.3313
769.8563
770.1063
770.3563
770.3563
770.6063
770.8563
771.7813
773.4563
773.9813
774.4813
774.7313

City of P	
Development & Pe	ermitting Servic PERMIT
Building	Planning
Engineering	Public Works
Fire OF W	Traffic

DONOR SIGN

H/E ROOM SIGN

EXTERIOR SIGN

WARNING

MOVEMENT OR
REPOSITIONING
OF THIS ANTENNA
IS PROHIBITED
WITHOUT
APPROVAL FROM
THE FIRE CODE
OFFICIAL.

EMERGENCY RESPONDER ENHANCEMENT COVERAGE SYSTEM EQUIPMENT EMERGENCY
RESPONDER
ENHANCEMENT
COVERAGE
SYSTEM
EQUIPMENT
LOCATED IN
ROOM 120

BATTERY CALCULATIONS

	SYSTEM BATTERY STANDBY CALCULATION 48V DC			
QTY	MODEL NO.	DESCRIPTION	WATTAGE	AMPS @ 48V
	IVO.			
1	RX78V3**	COMBA CLASS A BI DRIRECTIONAL AMPLIFIER	100	2.08
		TOTAL CURRENT DURING AC POWER LOSS		2.08
		DESCIPTION		CURRENT
		TOTAL CURRENT DURING AC POWER LOSS		2.08
		X HOUR STANDBY		50.00
		TOTAL BATTERY REQUIREMENT *		50.00
1	BBUV3-LPF48060	BATTERY SUPPLIED (Amp-Hours)		60.00
		EXCESS BATTERY BACKUP		10.00
		* Bat Req(ah) = $((BDA Watts)/48v)*24hr$		

EQUIPMENT LICENSING

FRN: 0027004969
FCC ID: PX8RX-7W22-A(B)
Full Company Details: Comba Telecom Inc.
Address:
Comba Telecom Inc.
568 Gibraltar Drive
Milpitas, CA 95035
United States
Issued 11/16/17

SHOP DRAWING



P. O. Box 485 - 608 Chestnut St.
Clarkston, WA 99403
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Fax: 425-529-9662
e-mail: info@dasconnexion.net

System Designer:

Manny Marcel

FCC GROL: PG-1-17584

Commscope: G619658US2015

ADRF Tech PSR78-040416

DAC Connexion: 081417

LAC Connexion: 081417 iBwave Lev 1: 042619

MAGE SYSTEM

RAGE SYSTEM

1601 39th AVE SE PUYALLUP, WA 98374

COLLEGE PUYA RESPONDER F

Revisions

C Cust. Req. Changes 3/1/24

B Cust. Req. Changes 6/14/23

A Cust. Req. Changes 4/18/23

No. Revision/Issue Date

Date Issued: 06/14/2023

Dwn By: MM

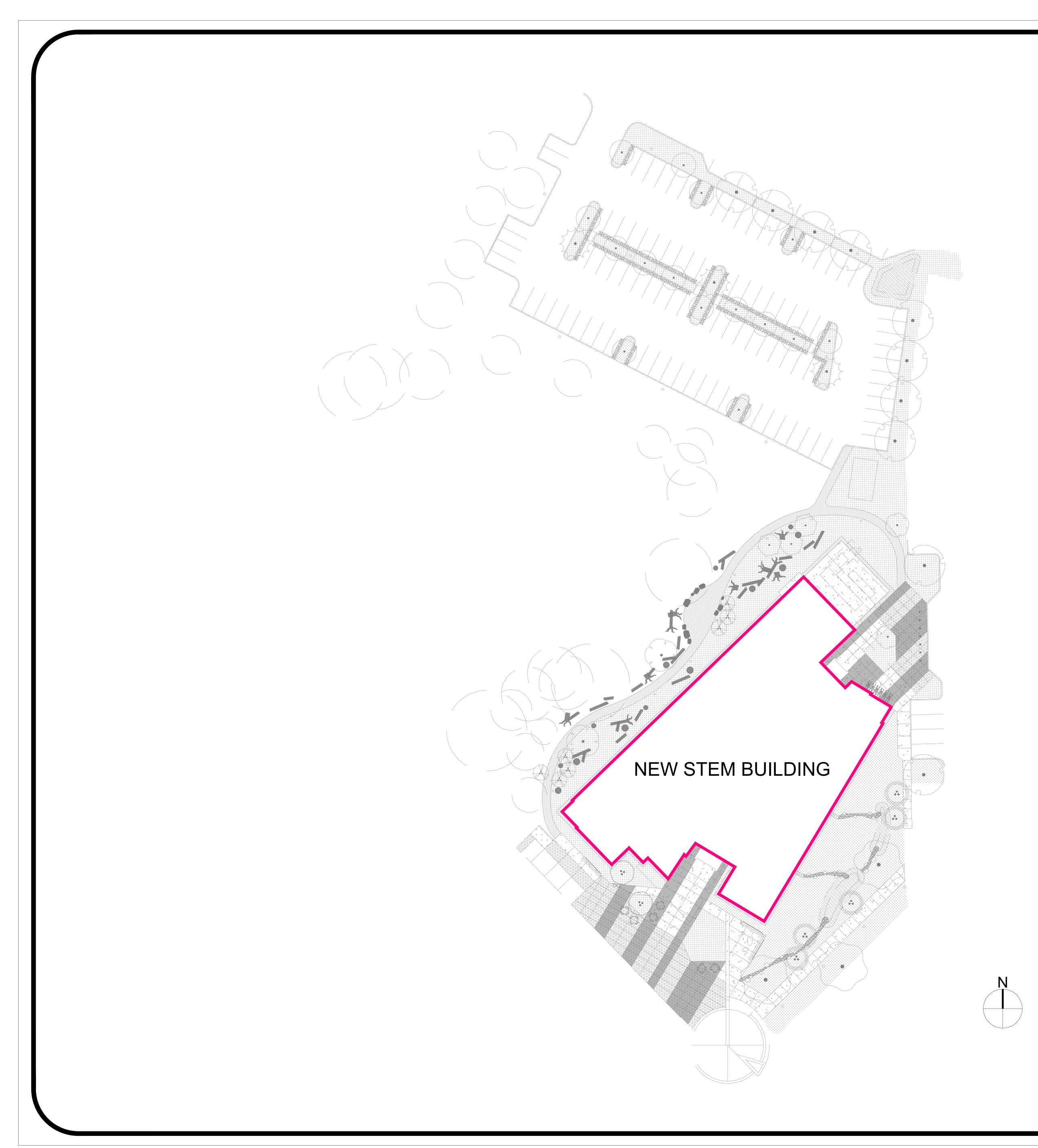
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Scale:

Do Not Scale Drawing

PIERCE - STEM
ERRCS PLAN
INFO 2
g: Rev:
DAS-1.20 C



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

SHOP DRAWING



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VERAGE SYSTEN

1601 39th AVE SE PUYALLUP, WA 98374

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A Cust. Req. Changes 4/18/23

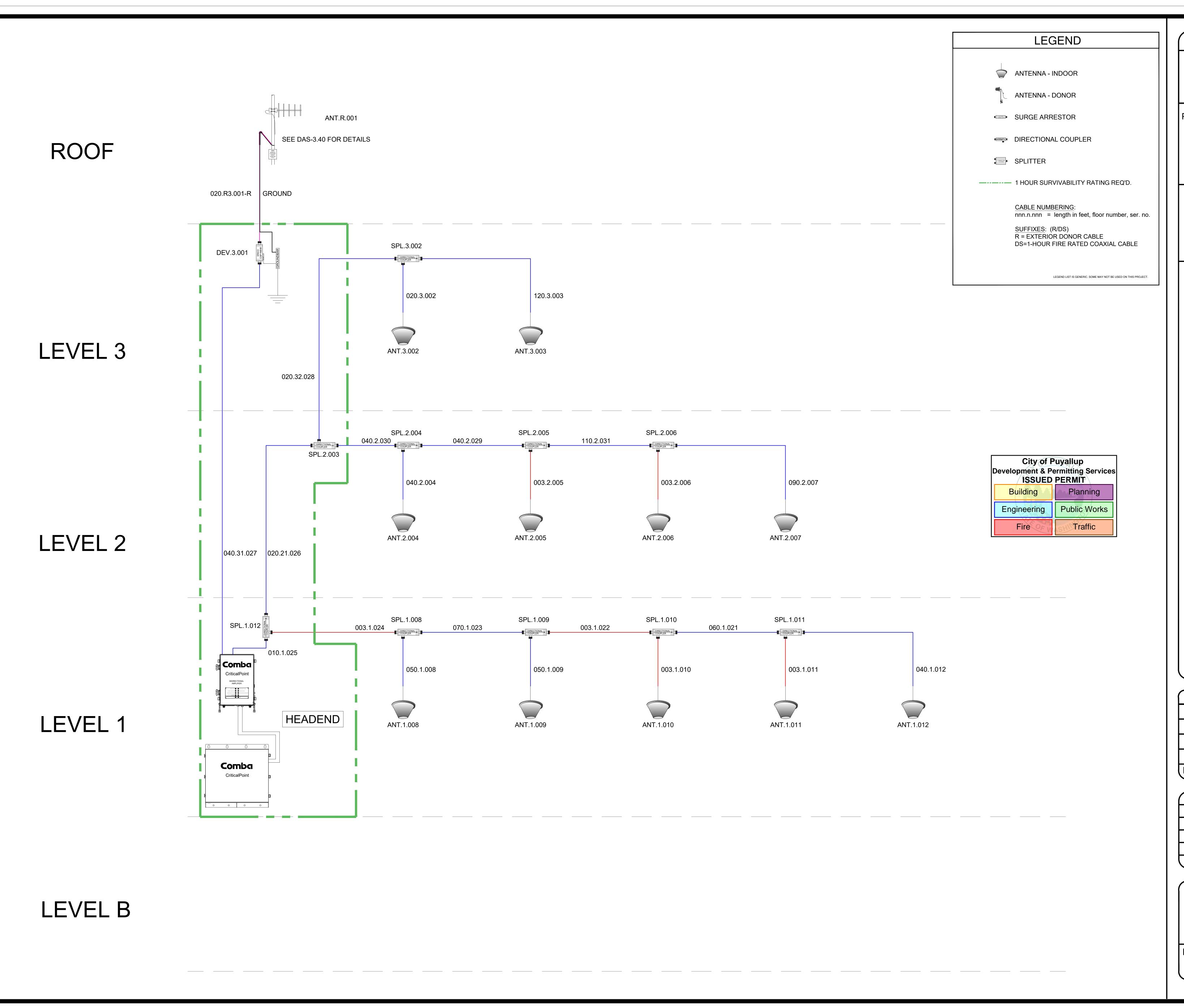
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PIERCE - STEM ERRCS PLAN SITE PLAN

Dwg: Rev: C

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iBwave Lev 1: 042619

: SE 98374

39th LUP,

1601 UYALI

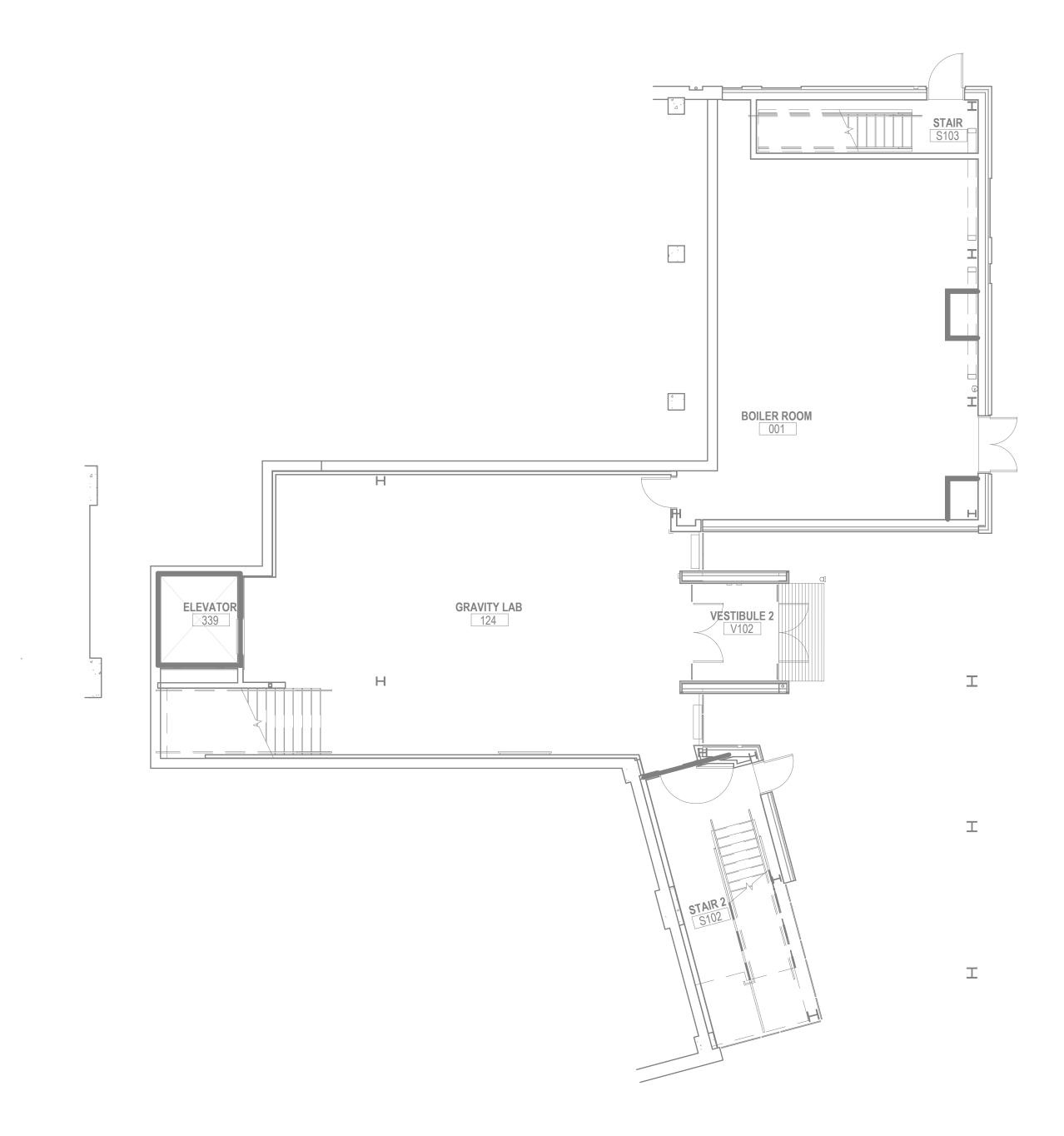
COLLEGE PUYA RESPONDER F

Revisions		
С	Cust. Req. Changes	3/1/24
B Cust. Req. Changes		6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

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PIERCE - STEM **ERRCS PLAN**

DAS-1.40



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

NO ERRCS ENHANCEMENT ON THIS LEVEL

SHOP DRAWING



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DAC Connexion: 081417
iBwave Lev 1: 042619

LLEGE PUYALLUP - STEM BUILDII ESPONDER RADIO COVERAGE S 1601 39th AVF SF

		Revisions	
	С	Cust. Req. Changes	3/1/24
	В	Cust. Req. Changes	6/14/23
	Α	Cust. Req. Changes	4/18/23
;	No.	Revision/Issue	Date

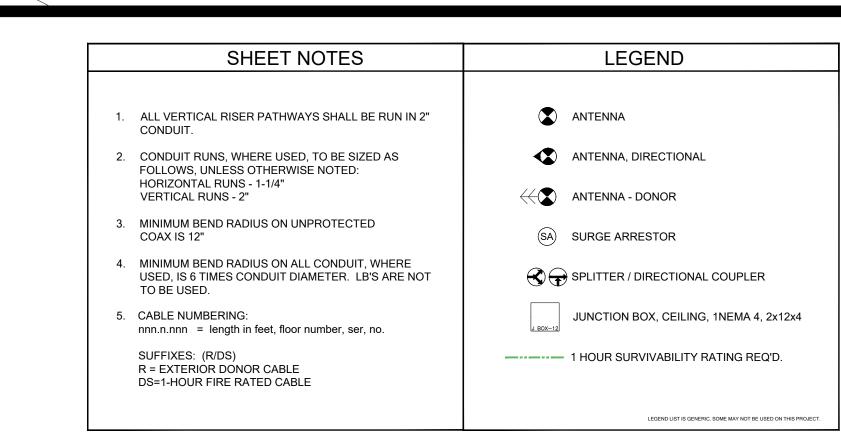
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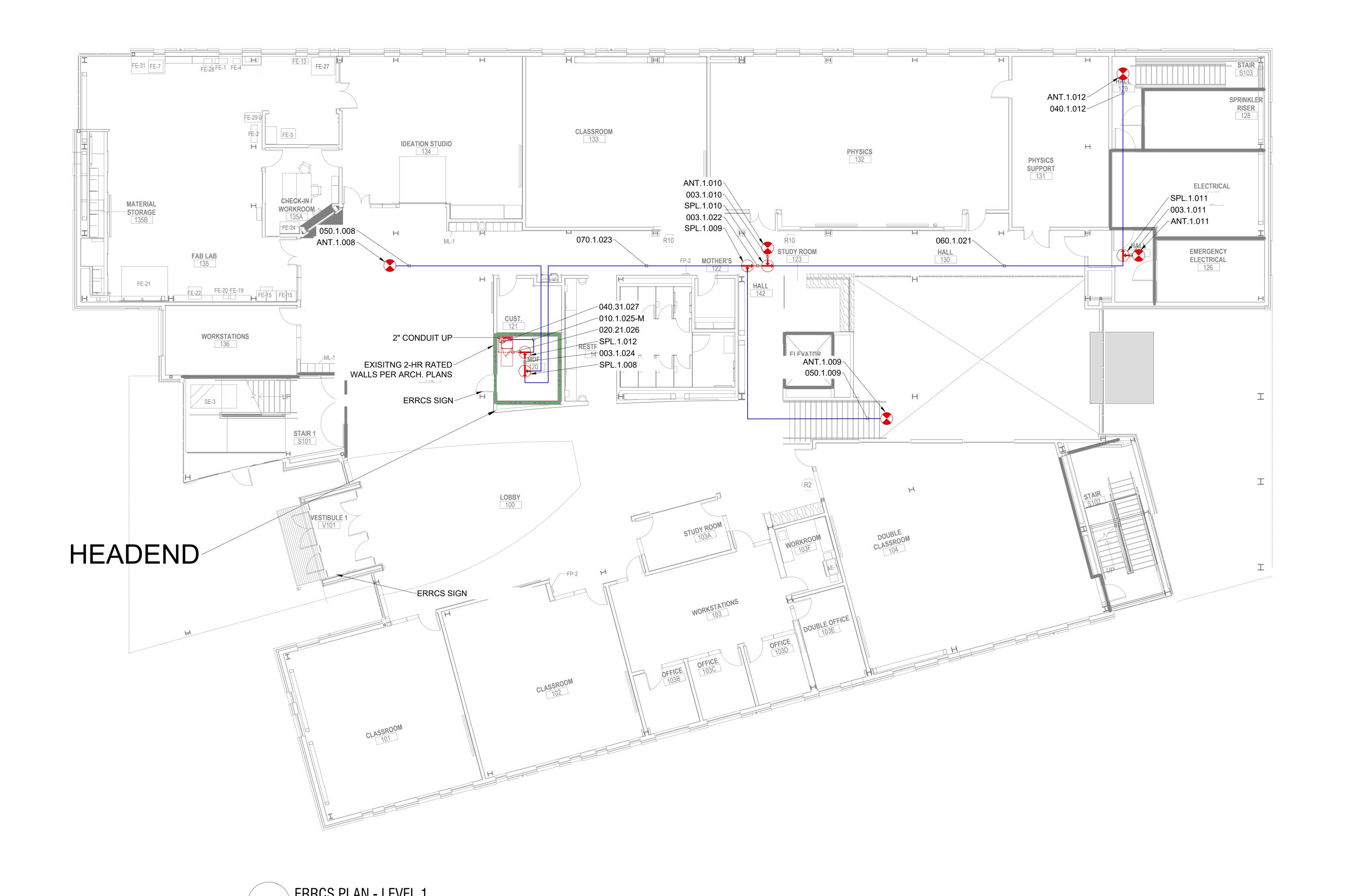
PIERCE - STEM
ERRCS PLAN
LEVEL 0

Dwg: Rev: C

2.00 ERRCS PLAN - LEVEL 0

SCALE: 1" = 8'





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



P. O. Box 485 - 608 Chestnut St. Clarkston, WA 99403 Tel: 800-905-3345 Fax: 425-529-9662 e-mail: info@dasconnexion.net

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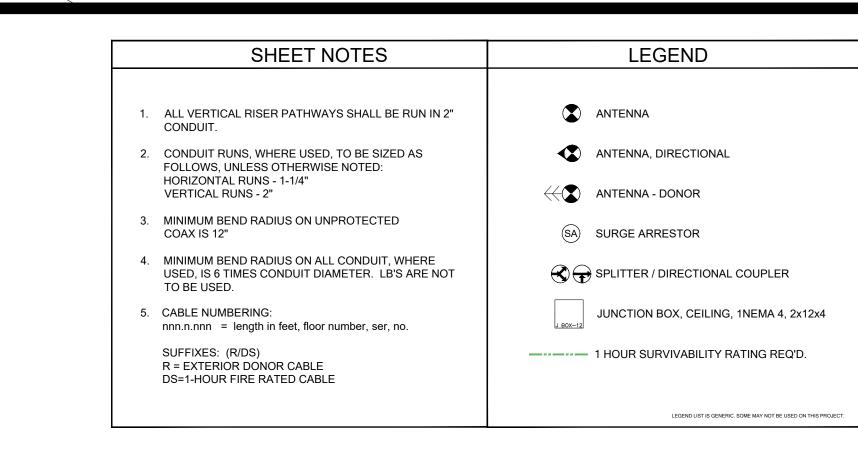
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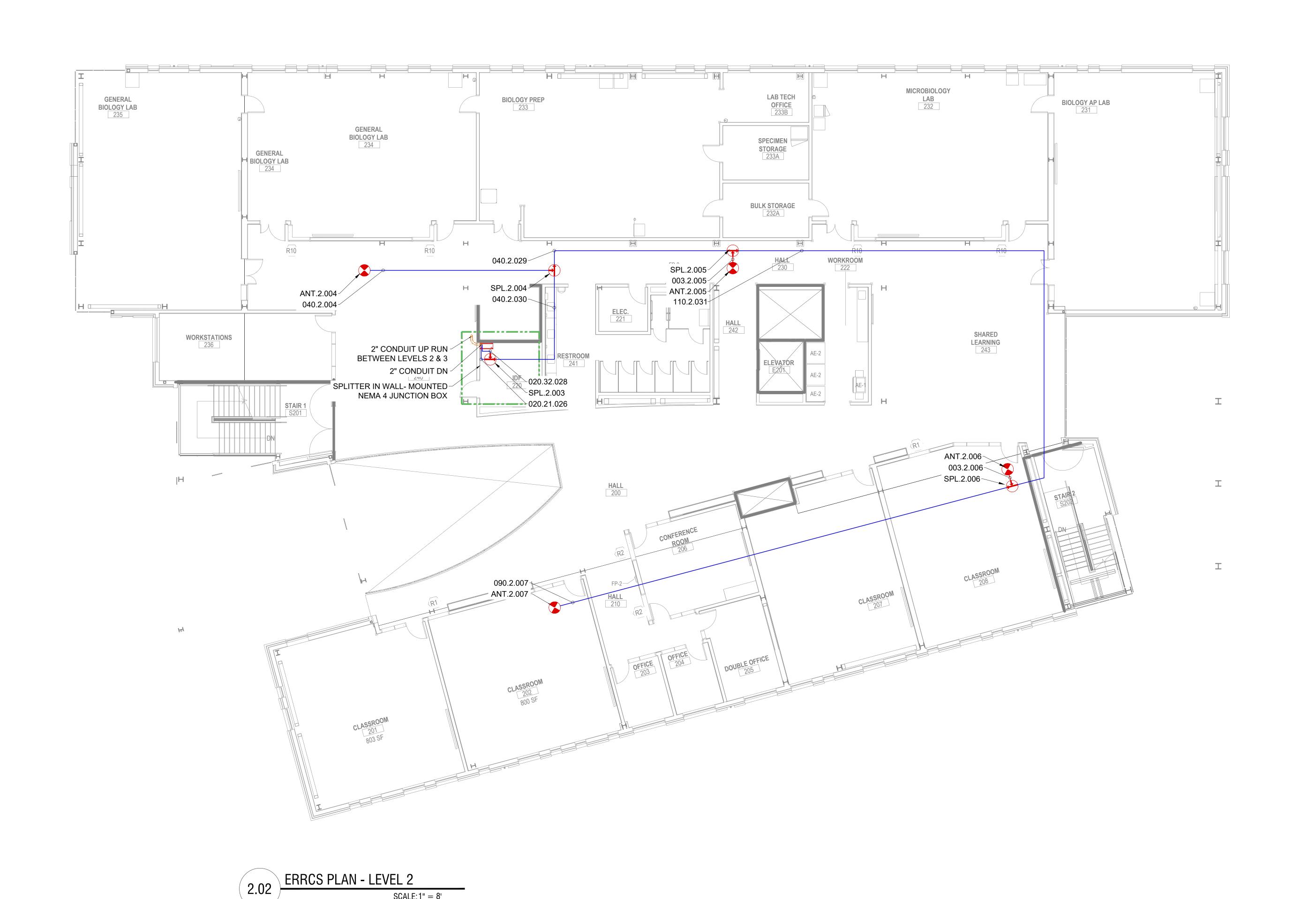
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PIERCE - STEM **ERRCS PLAN** LEVEL 1

Rev: DAS-2.01





City of Puyallup Development & Permitting Services			
Building Building	PERMIT		
Engineering	Public Works		
Fire OF W	Traffic		



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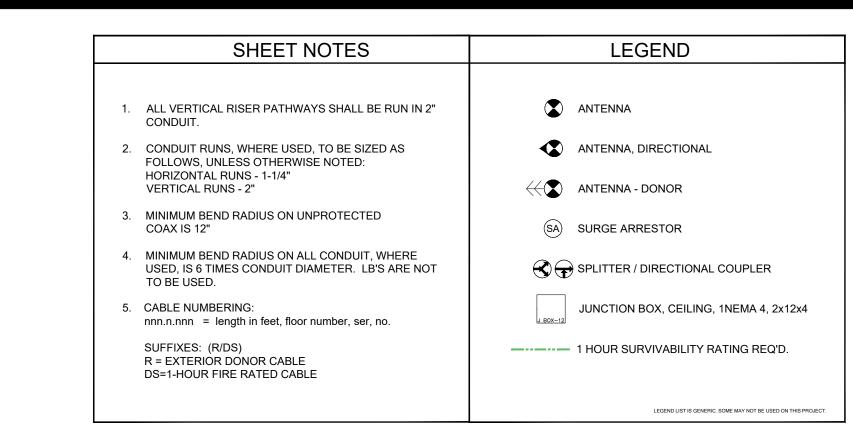
1601 39th AVE SE PUYALLUP, WA 98374

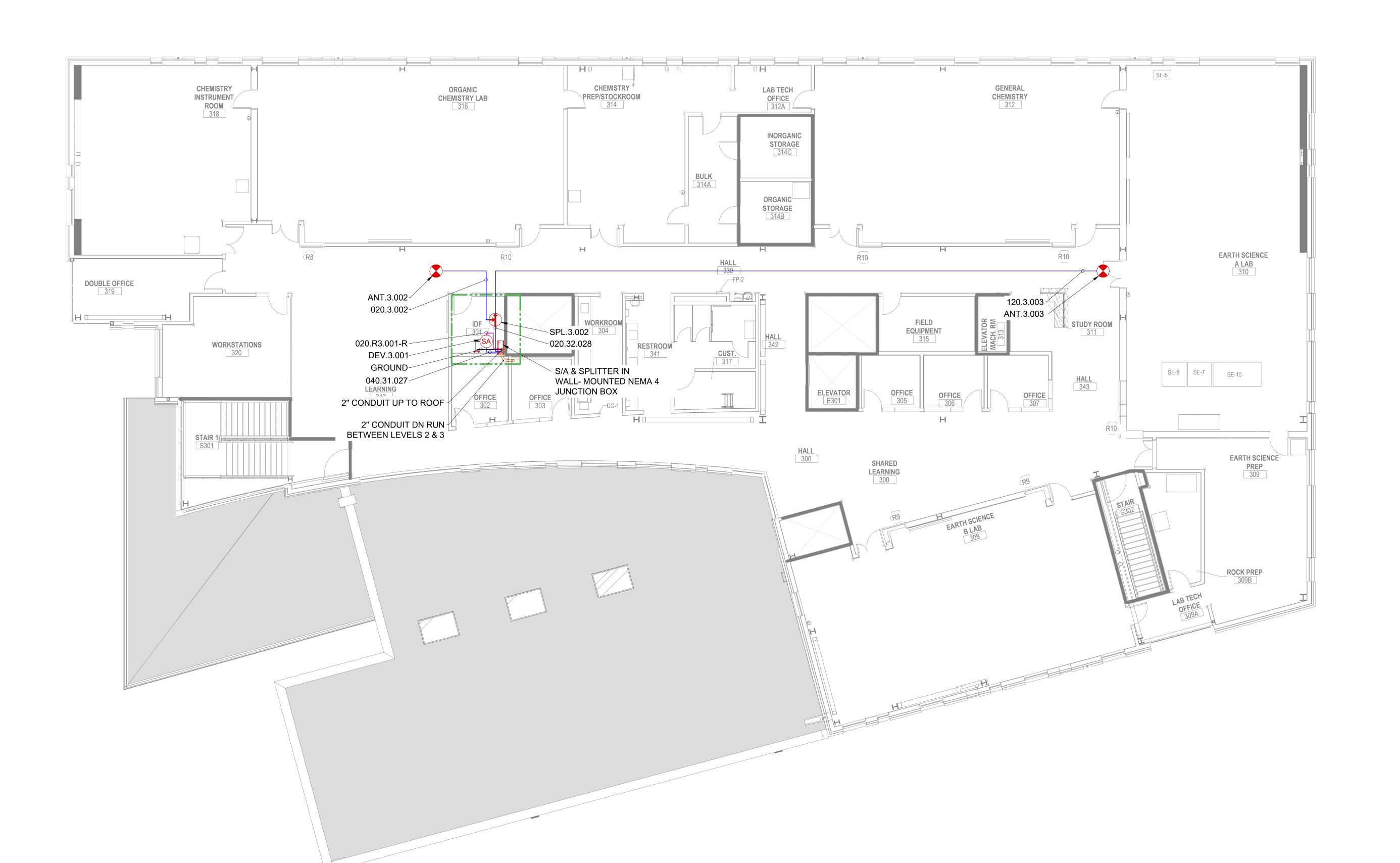
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PIERCE - STEM ERRCS PLAN LEVEL 2

Dwg: Rev: C





City of Puyallup Development & Permitting Services ISSUED PERMIT				
Building	Planning			
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AVE SE WA 98374

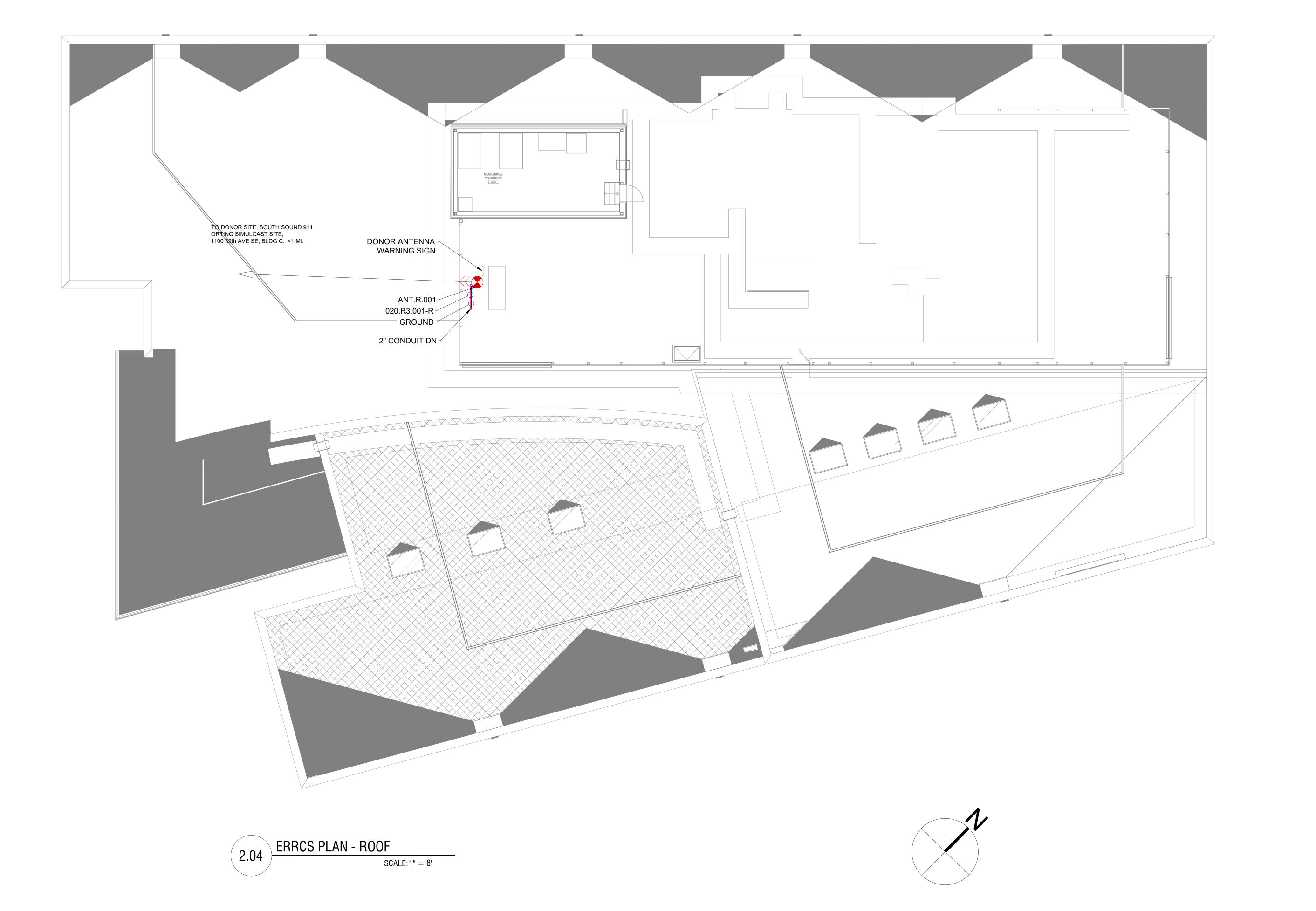
	Revisions	
С	Cust. Req. Changes	3/1/24
В	Cust. Req. Changes	6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

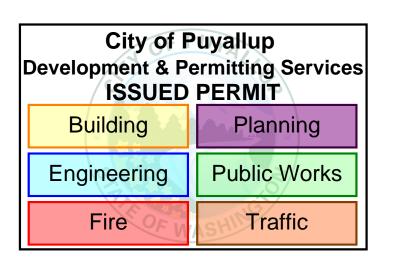
Date Issued: 06/14/2023
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: 1/8" = 1'-0"
Do Not Scale Drawing

PIERCE - STEM **ERRCS PLAN** LEVEL 3

Rev: DAS-2.03









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System Designer:
Manny Marcel
FCC GROL: PG-1-17584
Commscope: G619658US2015
ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

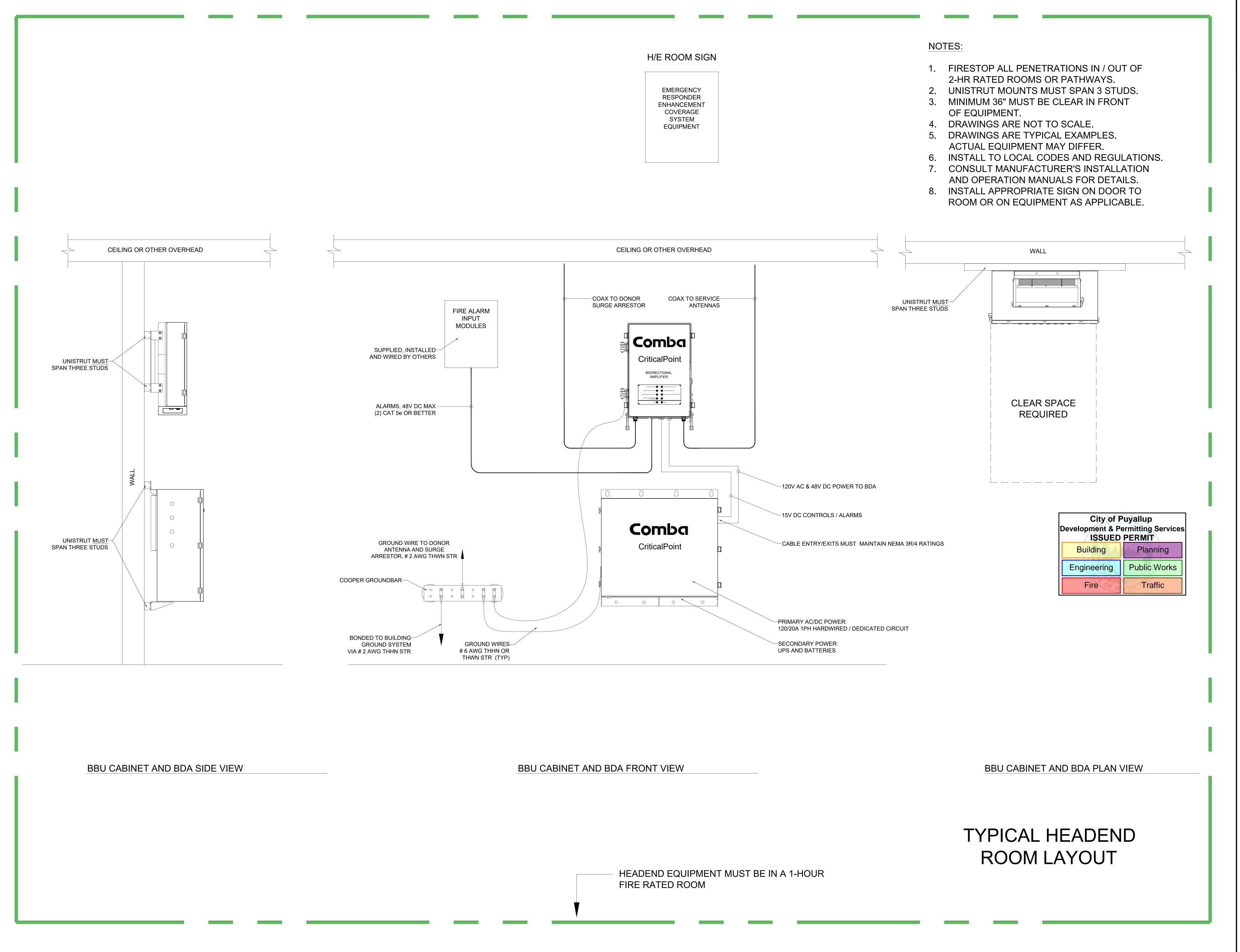
SPONDER RADIO COVERAGE SYST

	Revisions	
С	Cust. Req. Changes	3/1/24
В	Cust. Req. Changes	6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

Date Issued: 06/14/2023	
Dwn By: MM	
Chk By:	
Size: E1 - 30x42	
Scale: 1/8" = 1'-0"	
Do Not Scale Drawir	 າg

PIERCE - STEM ERRCS PLAN ROOF

Dwg: Rev: C





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Commscope: G619658US2015
ADRF Tech PSR78-040416
DAC Connexion: 081417

ADIO COVERAGE SYSTEM

NE SE

NA 98374

1601 39th AVE SE PUYALLUP, WA 98374

Revisions		
С	Cust. Req. Changes	3/1/24
В	Cust. Req. Changes	6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

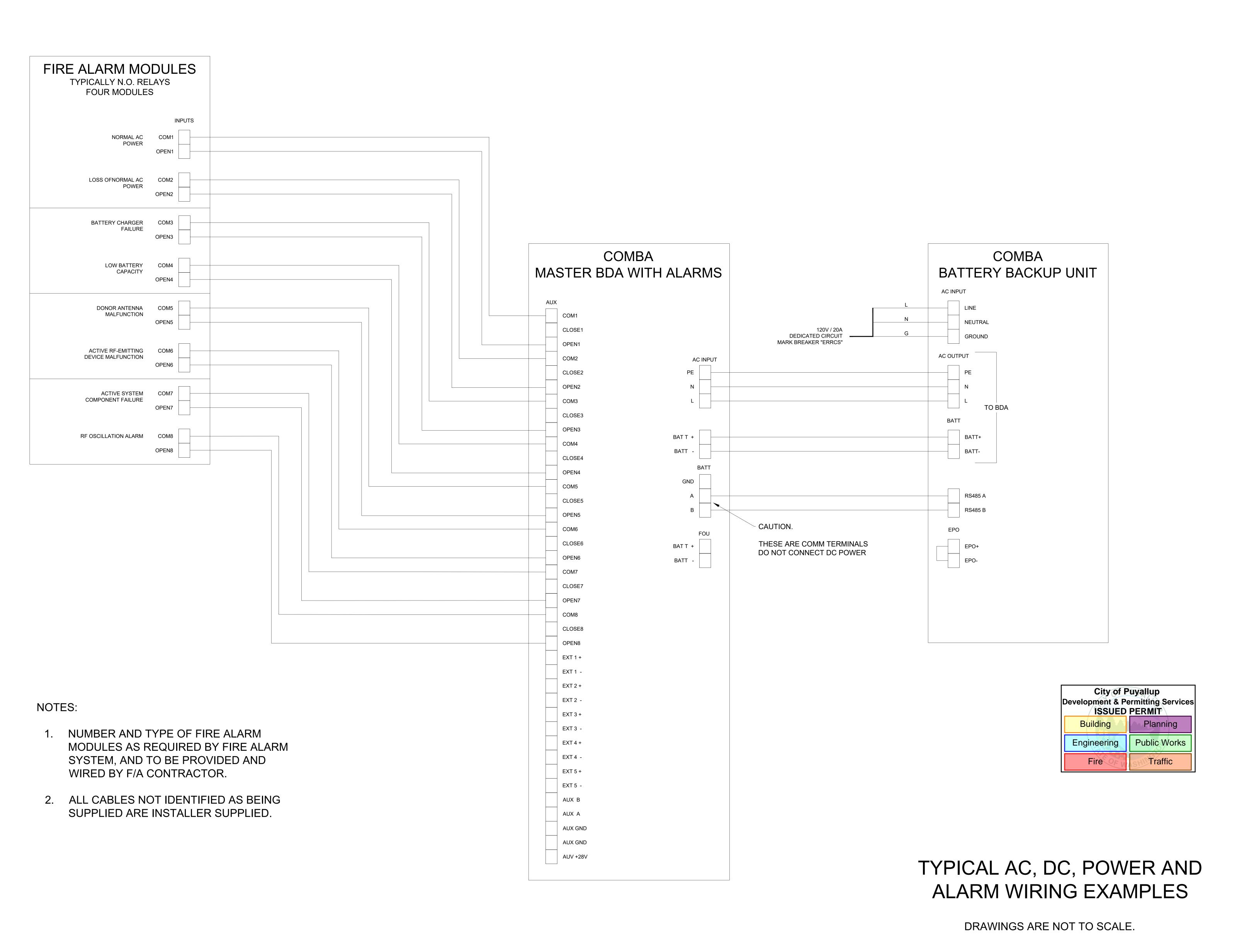
	_
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Dwn By: MM	
Chk By:	
Size: E1 - 30x42	
Scale: None	
Do Not Scale Drawing	

PIERCE - STEM

ERRCS PLAN

HEADEND DETAILS

Dwg: Rev: C





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ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

COLLEGE PUYALLUP - STEM BUILDING RESPONDER RADIO COVERAGE SYSTE

		Revisions	
	С	Cust. Req. Changes	3/1/24
	В	Cust. Req. Changes	6/14/23
	Α	Cust. Req. Changes	4/18/23
į	No.	Revision/Issue	Date

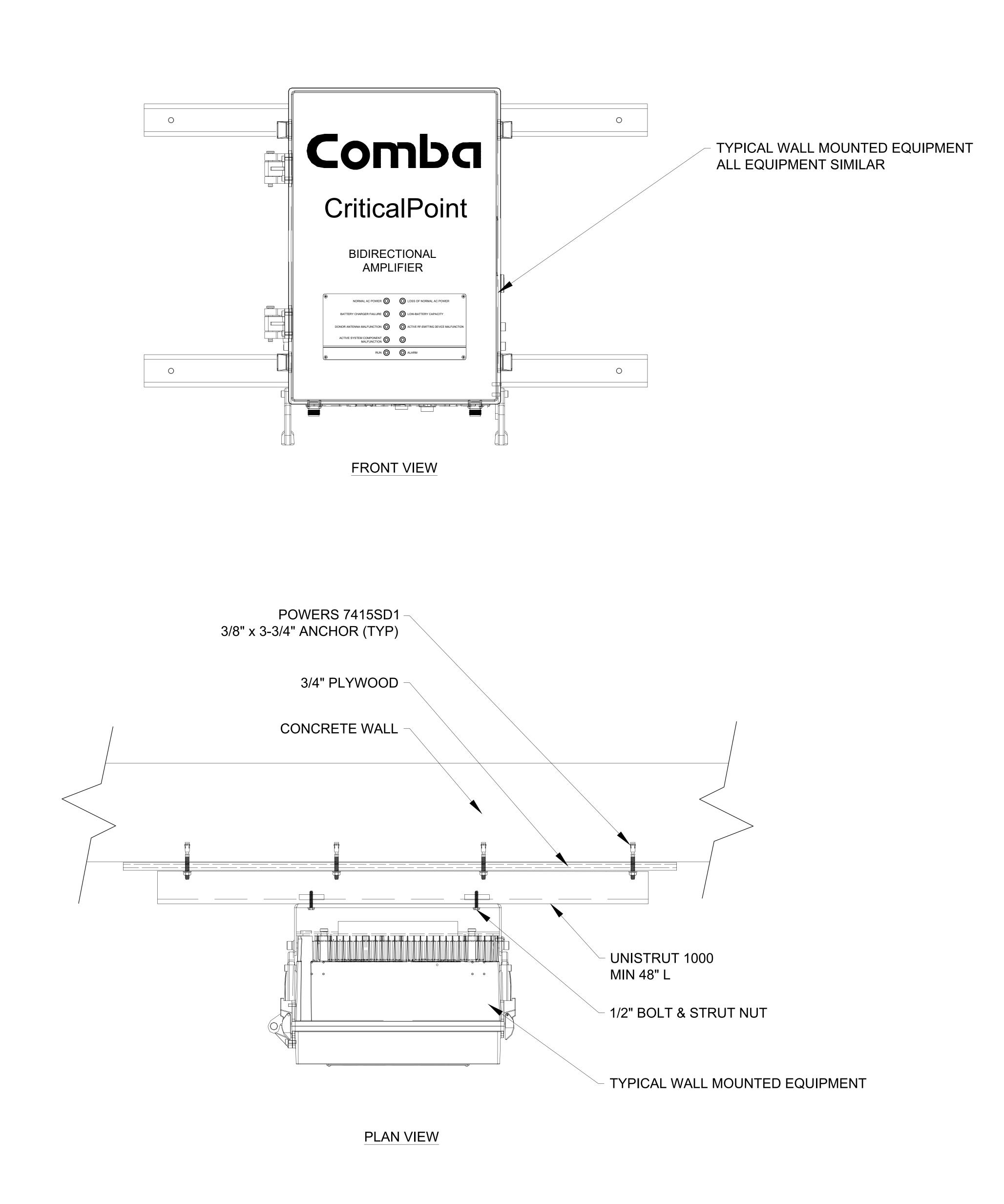
Date Issued: 06/14/2023	_
Dwn By: MM	
Chk By:	
Size: E1 - 30x42	
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Do Not Scale Drawing	
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PIERCE - STEM

ERRCS PLAN

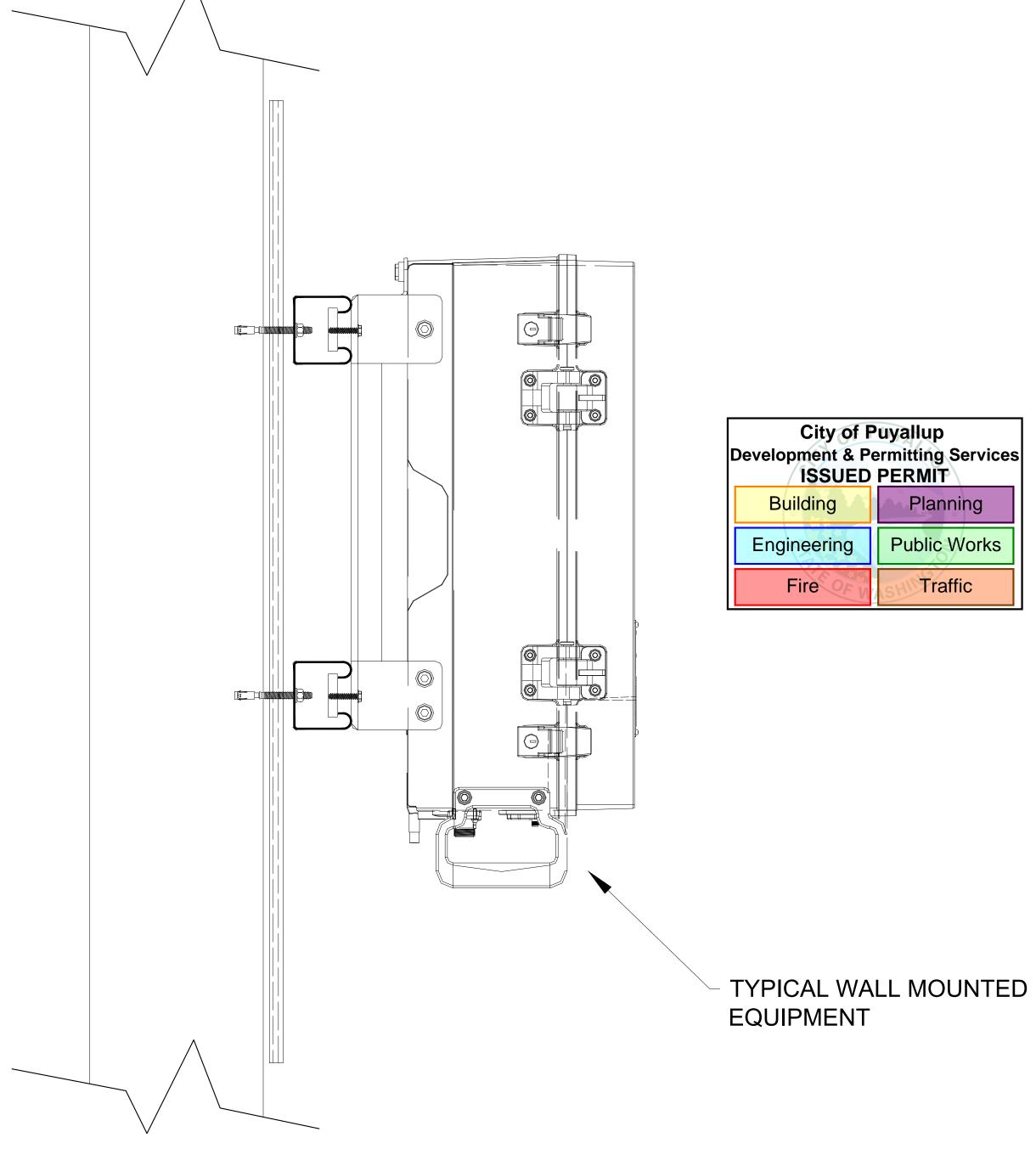
HEADEND WIRING

DWg: DAS-3.21



NOTES:

- FIRESTOP ALL PENETRATIONS IN / OUT OF 2-HR RATED ROOMS OR PATHWAYS.
- 2. UNISTRUT MOUNTS MUST SPAN 48".
- 3. MINIMUM 36" MUST BE CLEAR IN FRONT OF EQUIPMENT
- 4. DRAWINGS ARE NOT TO SCALE.
- 5. DRAWINGS ARE TYPICAL EXAMPLES. INSTALL TO LOCAL CODES AND REQUIREMENTS.



SIDE VIEW

TYPICAL WALL MOUNTED EQUIPMENT DETAIL

SHOP DRAWING



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Manny Marcel
FCC GROL: PG-1-17584
Commscope: G619658US2015
ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

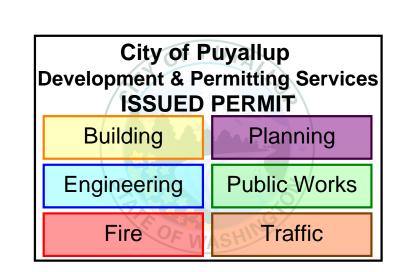
KÜE COLLEGE PUYALLUP - STEM BUILDING ENCY RESPONDER RADIO COVERAGE SYS⁻

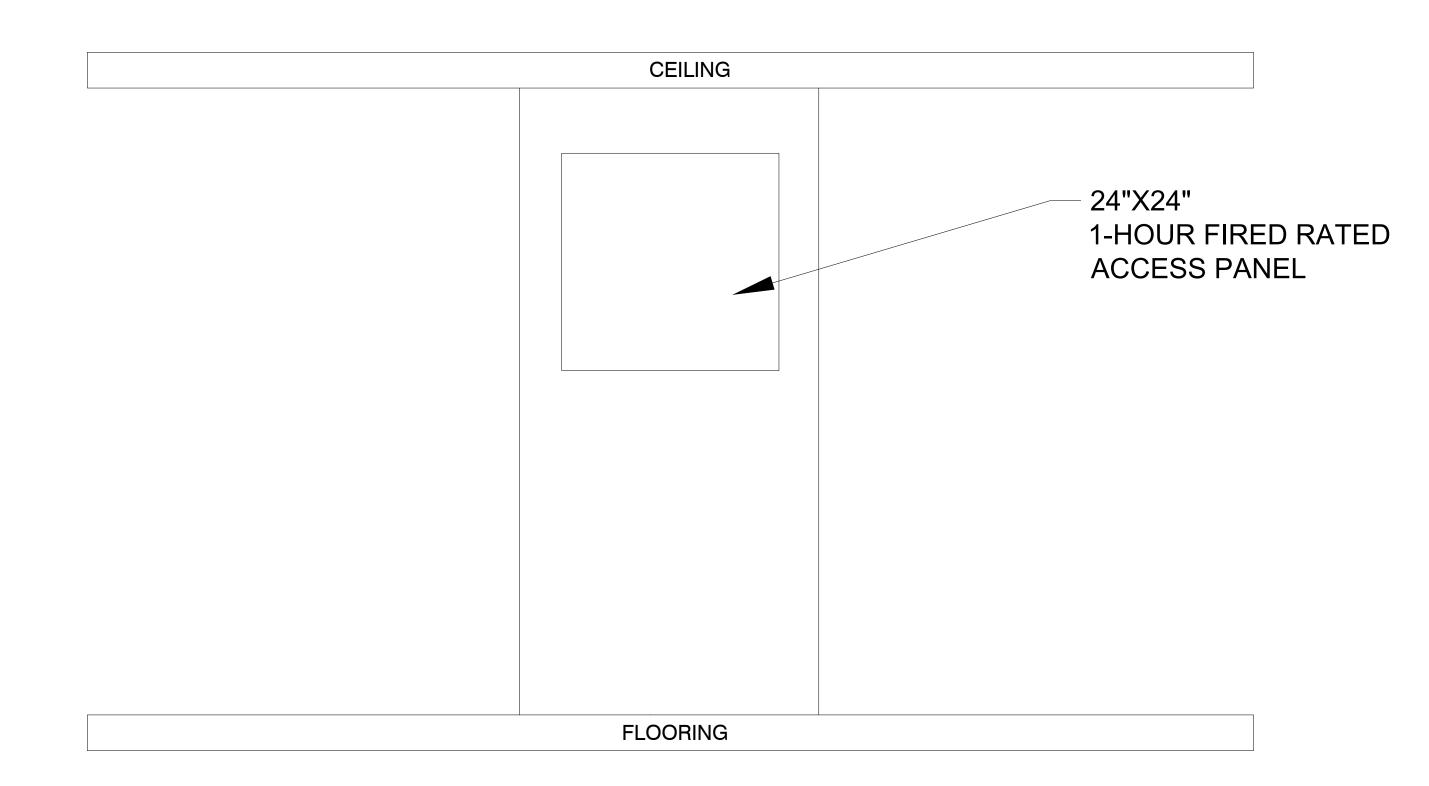
	Revisions	
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В	Cust. Req. Changes	6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

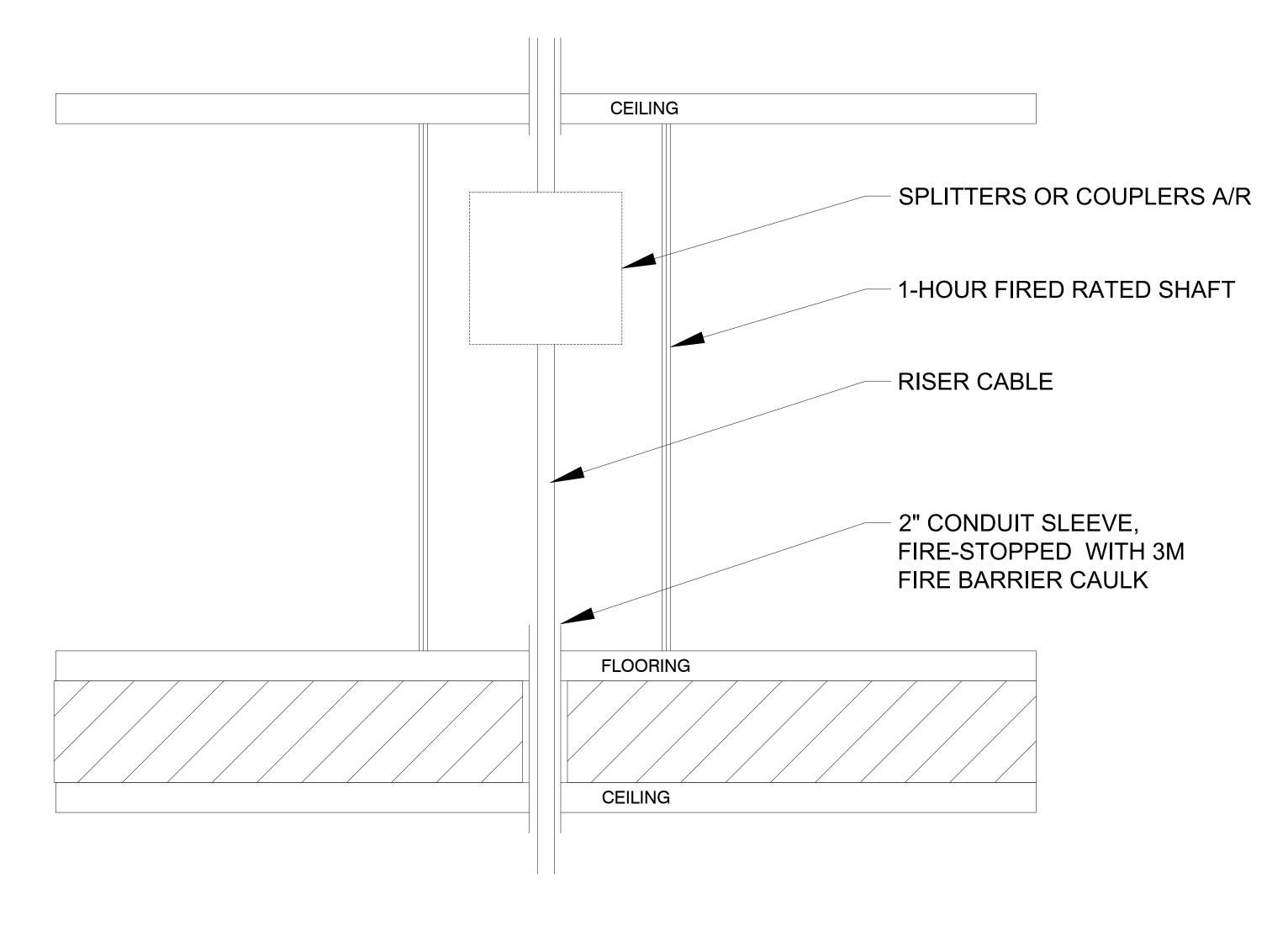
Date Issued: 06/14/2023
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

PIERCE - STEM
ERRCS PLAN
MOUNTING EXAMPLES

Dwg: Rev:







1-HOUR FIRE RATED SHAFT FRONT VIEW

TYPICAL RISER FLOOR PENETRATION





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Commscope: G619658US2015
ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

EMERGENCY RESPONDER RADIO COVERAGE SYSTEM

1		Revisions	
	С	Cust. Req. Changes	3/1/24
	В	Cust. Req. Changes	6/14/23
	Α	Cust. Req. Changes	4/18/23
	No.	Revision/Issue	Date

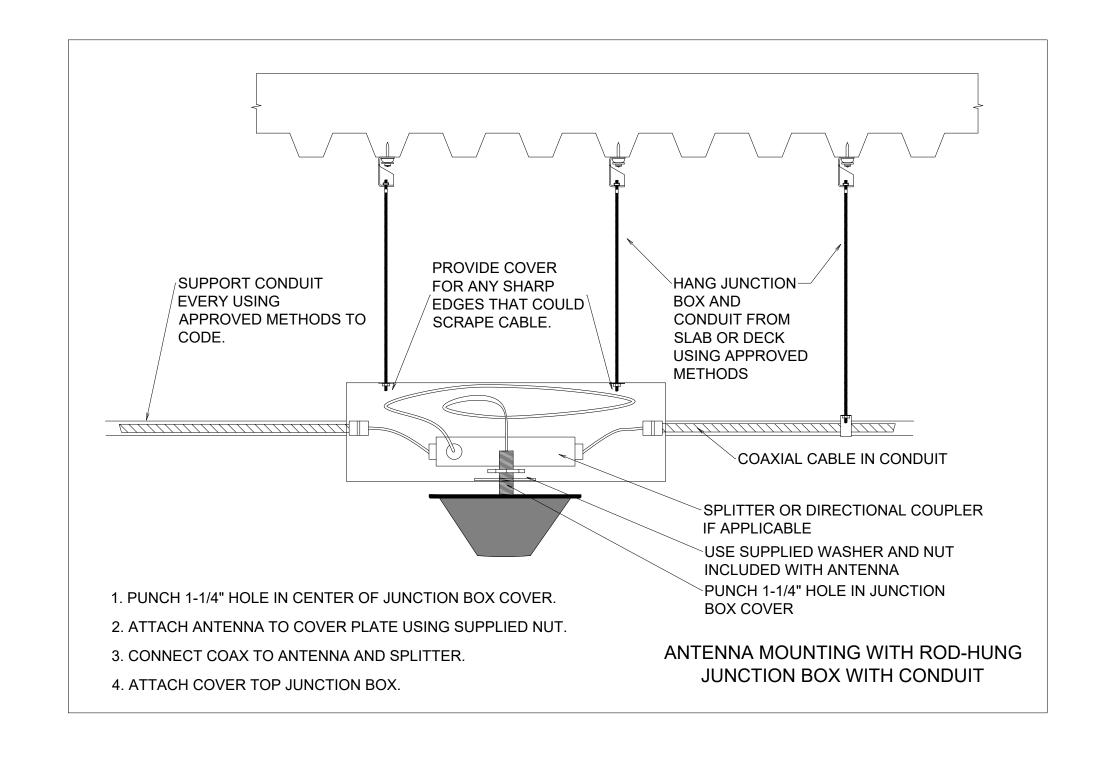
Date Issued: 06/14/2023
Dwn By: MM
Chk By:
Size: E1 - 30x42
Scale: None
Do Not Scale Drawing

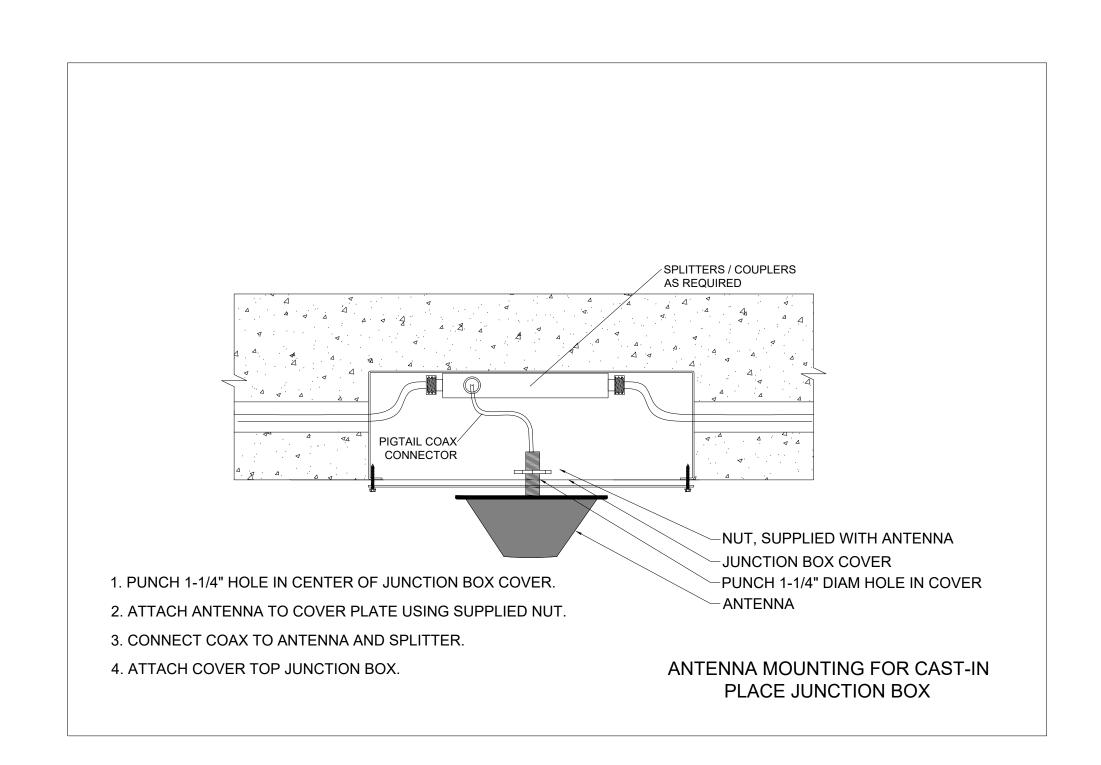
PIERCE - STEM

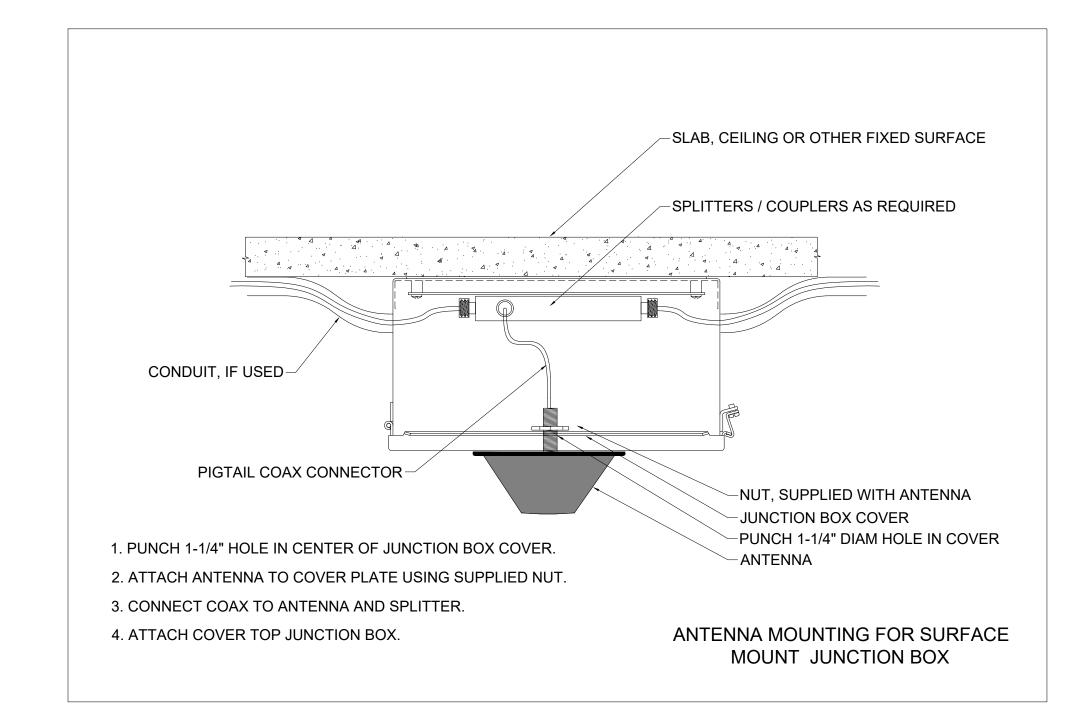
ERRCS PLAN

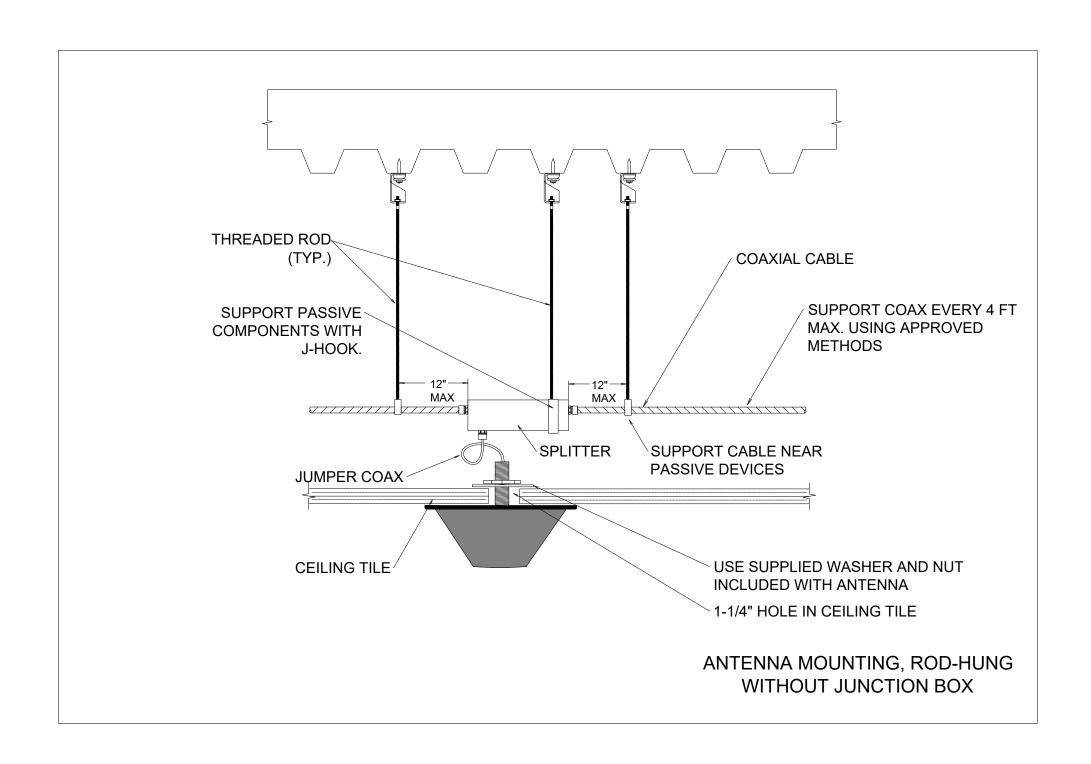
VERTICAL PATHWAY

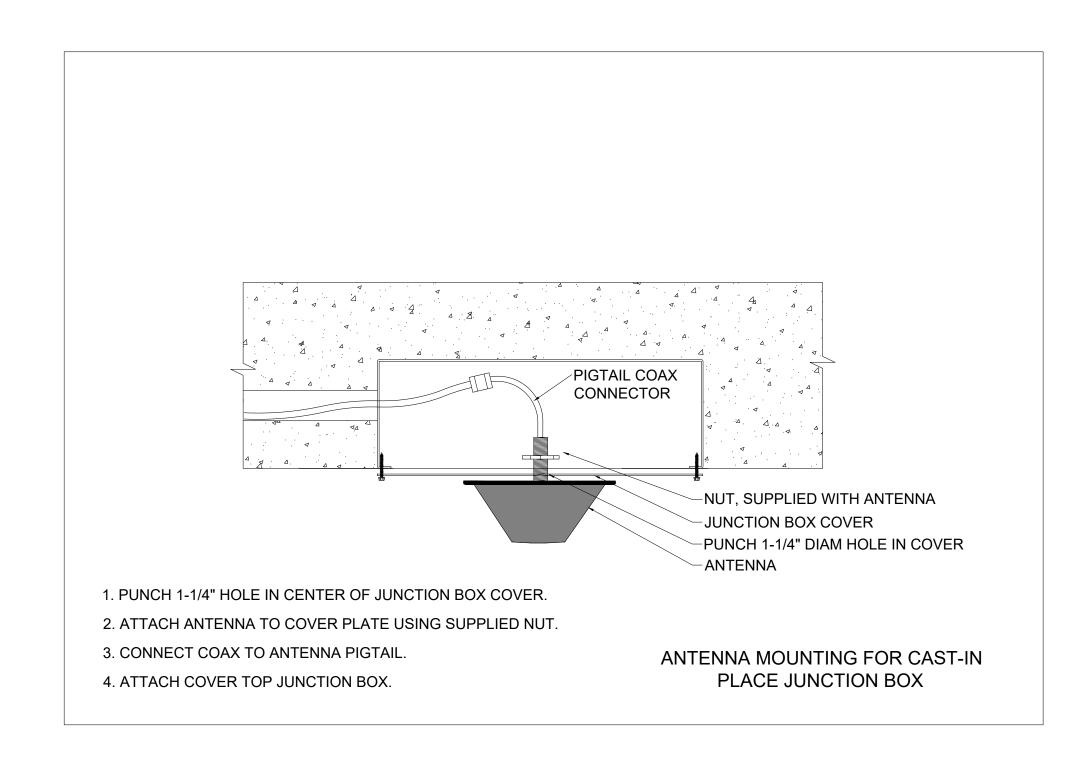
DAS-3.25 Rev:

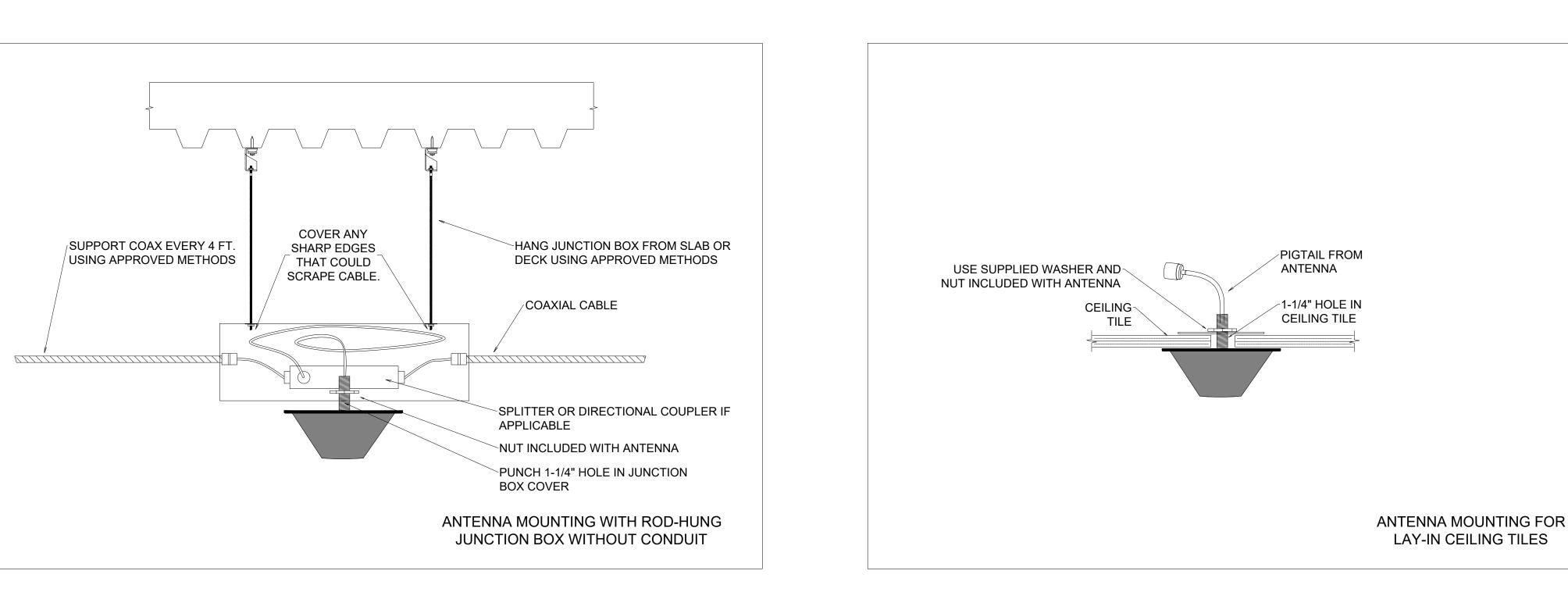


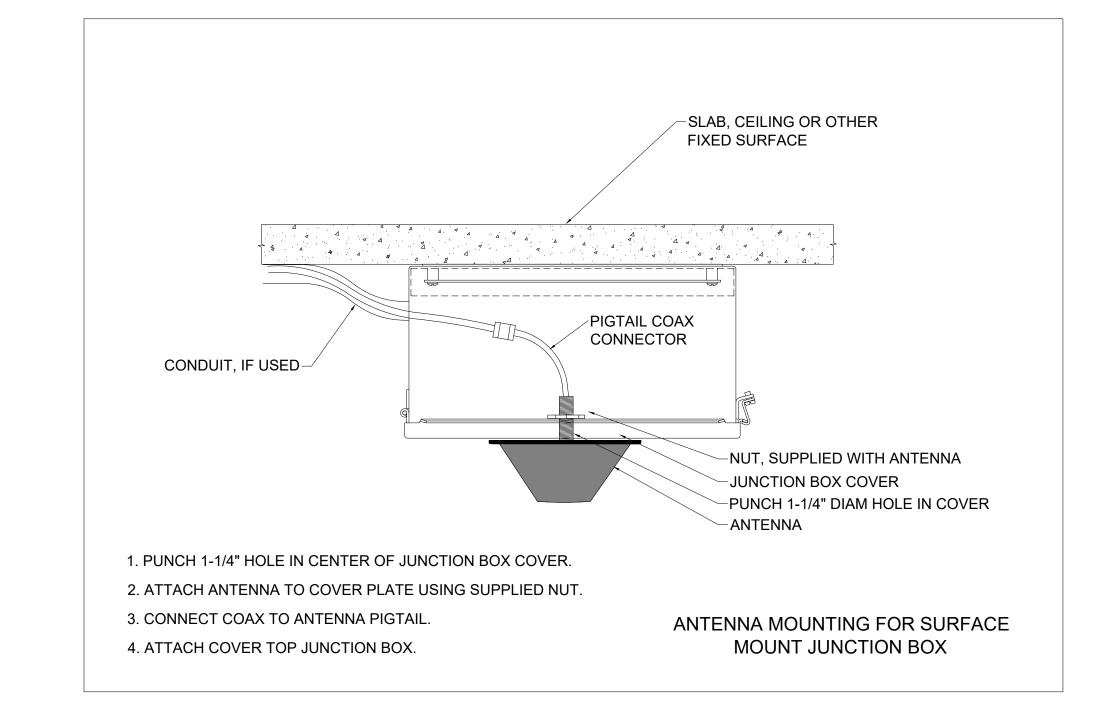








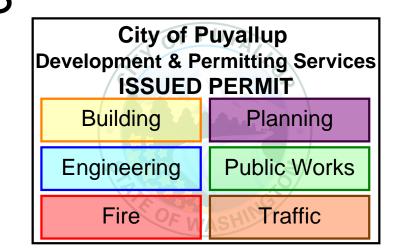




NOTES:

- 1. ALL ANTENNAS ARE PASSIVE (NOT ACTIVE) DEVICES.
- 2. SIZE AND SHAPE OF ANTENNA MAY CHANGE.
- 3. DRAWINGS ARE NOT TO SCALE.
- 4. ANTENNAS WHEN MOUNTED ON JUNCTION BOXES:
- 4.1. ANTENNA ONLY 12 X 12 X 4 MIN
- 4.2. ANTENNA AND SPLITTER(S) 16 X 16 X 6 MIN
- . LOCAL CODES AND CONDITIONS SHALL DETERMINE EXACT INSTALLATION.

SERVICE ANTENNA MOUNTING EXAMPLES



SHOP DRAWING



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System Designer:
Manny Marcel
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Commscope: G619658US2015
ADRF Tech PSR78-040416
DAC Connexion: 081417

Ommscope: G619658US2018
ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

1601 39th AVE SE PUYALLUP, WA 98374

Revisions

C Cust. Req. Changes 3/1/24

B Cust. Req. Changes 6/14/23

A Cust. Req. Changes 4/18/23

No. Revision/Issue Date

Date Issued: 06/14/2023

Dwn By: MM

Chk By:

Size: E1 - 30x42

Scale: None

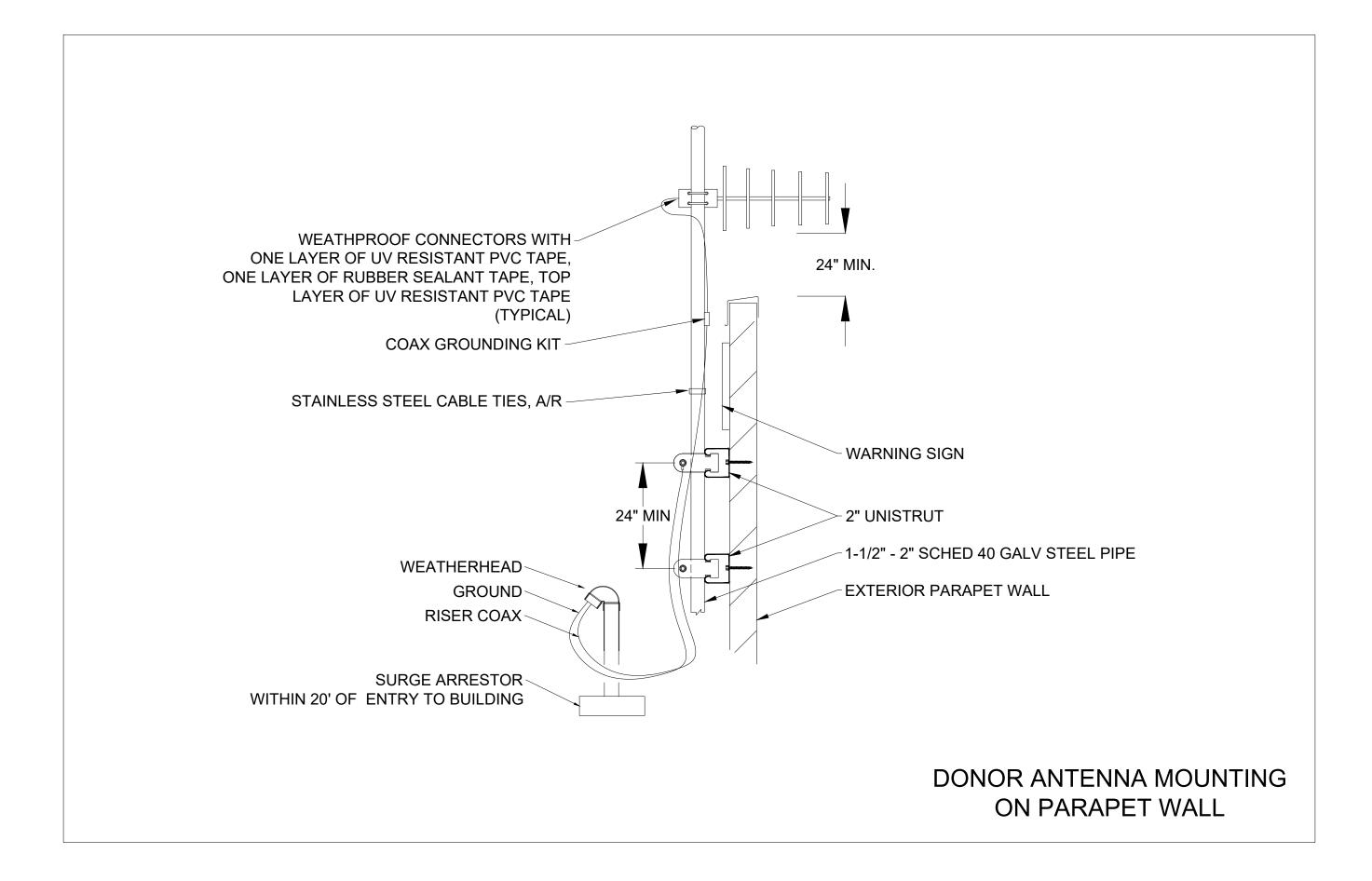
Do Not Scale Drawing

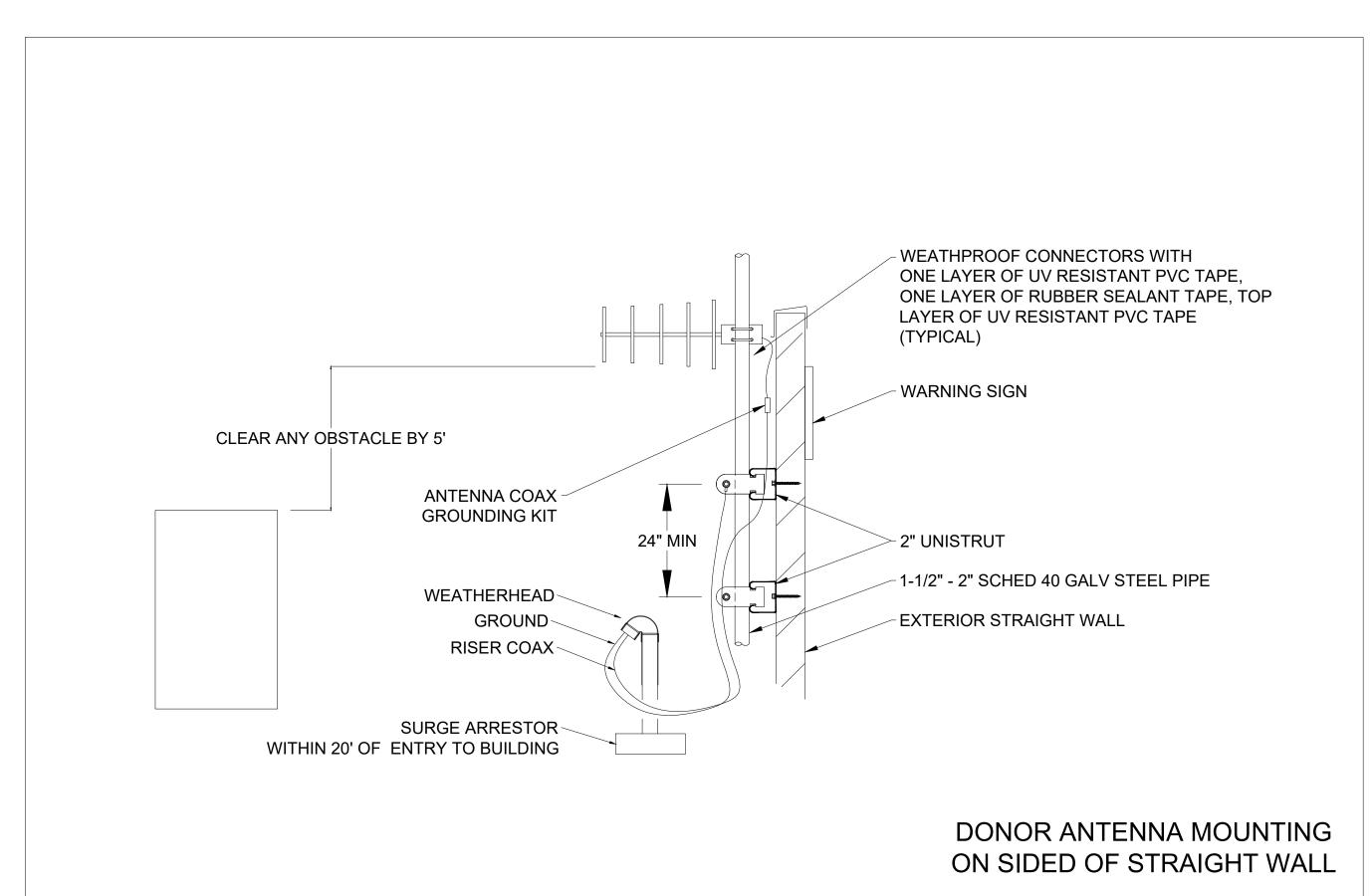
PIERCE - STEM
ERRCS PLAN
ANTENNA MTG EXAMPLES

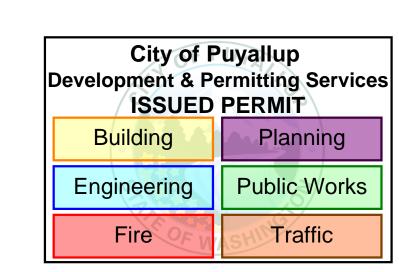
Dwg: Rev:
DAS-3.30 C

NOTES:

- 1. ALL ANTENNAS ARE PASSIVE (NOT ACTIVE) DEVICES.
- 2. SIZE AND SHAPE OF ANTENNA MAY CHANGE.
- 3. DRAWINGS ARE NOT TO SCALE.
- 4. LOCAL CODES AND CONDITIONS SHALL DETERMINE EXACT INSTALLATION.
- 5. GROUND CONDUCTORS #2 AWG CU THHN STRANDED OR BETTER.
- 6. ALL CABLE/CONDUCTORS WITHIN 7' OF ROOF SHALL BE PROTECTED FROM PHYSICAL DAMAGE.







DONOR ANTENNA MOUNTING EXAMPLES





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Manny Marcel
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ADRF Tech PSR78-040416
DAC Connexion: 081417
iBwave Lev 1: 042619

PIERCE COLLEGE PUYALLUP - STEM BUILDING EMERGENCY RESPONDER RADIO COVERAGE SYSTE

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igcap	Revisions	
С	Cust. Req. Changes	3/1/24
В	Cust. Req. Changes	6/14/23
Α	Cust. Req. Changes	4/18/23
No.	Revision/Issue	Date

1 1	Date Issued: 06/14/2023
	Dwn By: MM
	Chk By:
	Size: E1 - 30x42
	Scale: None
	Do Not Scale Drawing

PIERCE - STEM
ERRCS PLAN
DONOR MTG EXAMPLES

Dwg: Rev:
DAS-3.40 C