

EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM

WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE

PUYALLUP, WA

PIERCE COUNTY



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PREPARED FOR STRUCTURED COMMUNICATIONS

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PUYALLUP, WA

PIERCE COUNTY

SYSTEM INFORMATION

City of Puyallup					
Ch.	DL	UL	System Name	City	County
1	853.62500	808.62500	Digital City of Puyallup	Puyallup	Pierce
2	853.40000	808.40000			
3	772.13125	802.13125			
4	771.88125	801.88125			
5	771.60625	801.60625			
6	771.30625	801.30625			
7	771.05625	801.05625			
1	853.57500	808.57500	Analog City of Puyallup	Puyallup	Pierce
2	853.50000	808.50000			
3	857.18750	812.18750			
4	853.37500	808.37500			
5	853.35000	808.35000			

VICINITY MAP

SCOPE OF WORK

TO PROVIDE AN EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM THAT MEETS STATE AND LOCAL CODES AND REQUIREMENTS.

THIS IS ACCOMPLISHED BY AMPLIFYING THE EXISTING OUTDOOR NETWORK AND DISTRIBUTING THE COVERAGE THROUGHOUT THE BUILDING USING A SERIES OF SPLITTERS AND COUPLERS INTERCONNECTED WITH COAXIAL CABLE.

APPLICABLE CODES		PROJECT / BUILDING INFORMATION	
INTERNATIONAL BUILDING CODE (IBC)	2022 EDITION	STORIES:	4
INTERNATIONAL ELECTRICAL CODE (IEC)	2022 EDITION	BUILDING HEIGHT:	##'##" +/-
INTERNATIONAL FIRE CODE (IFC)	2022 EDITION	BUILDING AREA:	104,685 SQ FT +/-
NFPA 1225	2022 EDITION	CONSTRUCTION TYPE:	###
NFPA 70	2022 EDITION	OCCUPANCY:	R2
NFPA 72	2022 EDITION	SPRINKLERS:	FULLY SPRINKLERED

CODE REFERENCE GUIDE

IFC	GENERAL FIRE, SECTION 510 EMERGENCY RESPONDER RADIO COVERAGE
FCC 47 CFR PART 90.219	TITLE 47-TELECOMMUNICATION CHAPTER I-FEDERAL COMMUNICATIONS COMMISSION
NFPA 1225	SUBCHAPTER D-SAFETY AND SPECIAL RADIO SERVICES PART 90-PRIVATE LAND MOBILE
	RADIO SERVICES SUBPART I GENERAL TECHNICAL STANDARDS
	STANDARD FOR EMERGENCY SERVICES COMMUNICATIONS

RF DESIGNER

Comba

TRADE PRO CONSULTANT

THIS IS TO CERTIFY THAT

Julia Connolly

HAS SUCCESSFULLY COMPLETED THE REQUIRED TRAINING AND IS CERTIFIED TO INSTALL AND COMMISSION COMMERCIAL RADIO SYSTEMS IN BSA AND PUBLIC SAFETY EQUIPMENT

3/14/2023

Date

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES®

Providing Certification Programs Since 1987

ALL OF OURS HAVE

Julia Connolly

COMMERCIAL RADIO SYSTEMS INSTALLATION

In-Building Public Safety Communications - Level III

3/14/2023

Date

UNITED STATES OF AMERICA

FEDERAL COMMUNICATIONS COMMISSION

General Radiotelephone Operator License

ATTN: JULIA SMITH, JULIA 1235 SE WENDY AVE GRESHAM, OR 97080

FCC Registration Number (FRN): 002926614

SPECIAL CONDITIONS / ENDORSEMENTS

NONE

Grant Date	Effective Date	Print Date	Expiration Date
03-05-2020	03-05-2020	03-06-2020	

File Number	Serial Number
0009001519	PG000065757

THIS LICENSE IS NOT TRANSFERABLE

Julia Connolly

(Licensee's Signature)

FCC 605-FRC - May 2007

RF ENGINEER / ERCES PROJECT MANAGER & COMMISSIONED BY

Comba

TRADE PRO CONSULTANT

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SYMBOL LEGEND

Donor Antenna

BDA

Bi-Directional Amplifier

Omni Antenna

BBU

Battery Backup Unit

Coupler/Tapper

Polyphaser

CABLE LEGEND

ICA12-50JPLLR - (1/2" PLenum COAX)
ICA12-50JPLLR-ARMR - (1/2" PLenum COAX)
LCF12-50J - (1/2" OUTDOOR COAX)
2HB12-50JPLR - (1/2" 2HR COAX)
3' N-MALE - N-FEMALE JUMPER
3' N-MALE - N-MALE JUMPER
LMR-400-DB

ABBREVIATIONS

A

ANTENNA

AHJ

AUTHORITY HAVING JURISDICTION

ANN

ANNUNCIATOR PANEL

ATT

ATTENUATOR

B

BIAS-T

BBU

BATTERY BACKUP UNIT

BDA

BI-DIRECTIONAL AMPLIFIER

BOM

BILL OF MATERIAL

C

COAXIAL CABLE

DA

DONOR ANTENNA

dBm

DECIBEL MILLIWATTS

DAS

DISTRIBUTED ANTENNA SYSTEM

DC

DONOR CABLE

DI

DIPLEXER

DL

DOWNLINK

DS

DONOR SITE

DU

DUPLEXER

EPO

EMERGENCY POWER OFF BUTTON

ERCES

EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM

FTR

FILTER

FPP

FIBER PATCH PANEL (PROVIDED BY OTHERS)

GND

GROUND

HE

HEAD END

J

JUMPER

N.C.

NORMALLY CLOSED

MHz

MEGAHERTZ

NF

N-FEMALE

NM

N-MALE

N.O.

NORMALLY OPEN

PP

POLYPHASER

RF

RADIO FREQUENCY

RSSI

RECEIVED SIGNAL STRENGTH INDICATOR

Rx

RECEIVE

S

SPLITTER / COUPLER / TAPPER

Tx

TRANSMIT

UL

UPLINK

SHEET INDEX

SHEET TITLE	PLAN NAME	0	1	2	3
ERCES 0.0	EDIT IN SHEET PROPERTIES FOR EACH SHEET				
ERCES 0.1	BILL OF MATERIALS				
ERCES 0.2	NOTES & DONOR INFORMATION				
ERCES 0.3	EQUIPMENT INFORMATION-1				
ERCES 0.4	EQUIPMENT INFORMATION-2				
ERCES 0.5	EQUIPMENT INFORMATION-3				
ERCES 1.0	RISER				
ERCES 2.0	LEVEL 0 OVERALL				
ERCES 2.0A	LEVEL 0 SECTION A				
ERCES 2.0B	LEVEL 0 SECTION B				
ERCES 2.1	LEVEL 1 OVERALL				
ERCES 2.1A	LEVEL 1 SECTION A				
ERCES 2.1B	LEVEL 1 SECTION B				
ERCES 2.2	LEVEL 2 OVERALL				
ERCES 2.2A	LEVEL 2 SECTION A				
ERCES 2.2B	LEVEL 2 SECTION B				
ERCES 2.3	LEVEL 3 OVERALL				
ERCES 2.3A	LEVEL 3 SECTION A				
ERCES 2.3B	LEVEL 3 SECTION B				
ERCES 2.4	ROOF				
ERCES 2.4B	ROOF SECTION B				
ERCES 3.0	EQUIPMENT & RISER ROOM DETAILS				
ERCES 4.0	STANDARD DETAILS-1				
ERCES 4.1	STANDARD DETAILS-2				
ERCES 5.0	PROPAGATION				
ERCES 5.1	ANTENNA ERP REPORT				
ERCES 5.2	UPLINK LINK BUDGET				

Read Permit Conditions prior to calling for inspection.

City of Puyallup

Fire

REVIEWED

FOR

COMPLIANCE

DDrake

12/31/2025

3:17:49 PM

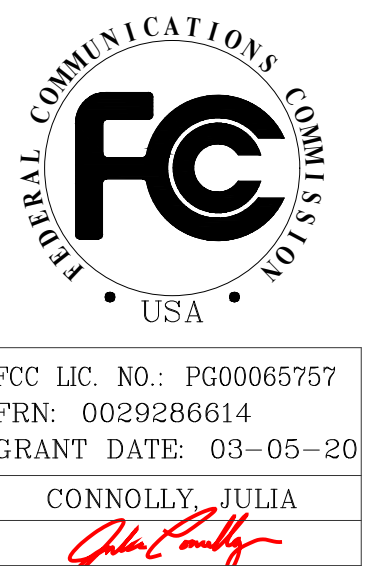
CITY OF PUYALLUP

STATE OF WASHINGTON

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.

FCC



REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25

FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)





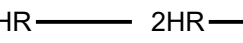
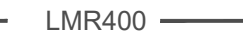










SCALE	NA
DRAWN BY	J.T.

SHEET TITLE

ERCES 0.0

PLAN NAME

PLOT DATE

BILL OF MATERIALS					
SYMBOL LEGEND	Type	Manufacturer	Model	Description	Qty
	Antenna	Ventev	M3020050O11206	Indoor Omni-Directional Ceiling Mounted Antenna	18
	Antenna	Ventev	VHG-VL3015-ODNF	(N.America)(Passive) Outdoor High Isolation Narrow Beam Antenna, 758-869MHz, N-Female	1
	Attenuator	Comba	AT05H-NMNF20	(N.America)(Passive) AT05H Series 20dB Attenuator	1
	Cable	Ventev	JS-NMNM3F-141	3' N-Male to N-Male Semi-rigid .141 Low loss and Lo Pimm Jumper	16
	Cable	RFS	ICA12-50JPL	ClearFillLine - 1/2in Low Loss Air Dielectric Cable - Plenum Rated/ Indoor/ Outdoor Usage/ Color Blue	500 feet
	Cable	RFS	ICA12-50JPLLR-ARMR	ClearFillLine - 1/2in Armored Low Loss Air Dielectric Cable - Plenum Rated/ Indoor Usage/ Color Red	800 feet
	Cable	RFS	2HB12-50JPLR	Dragonskin - 1/2in Air Dielectric Cable - Plenum Rated/ Indoor/ Outdoor Usage/ Color Red	50 feet
	Cable	Times Microwave Systems	3' LMR-400 NM-NM	3' LMR-400 JUMPER (N-Male - Male) Flexible Low Loss Communications Coax Jumper	1
	Cable	RFS	LCF12-50J	CELLFLEX - 1/2in Low Loss Flexible Cable - Standard Jacket/ Outdoor Usage	50 feet
	Connector	RFS	NM-LCF12-D01	Connector - LCF12-50 - N Male Connectors	44
	Connector	RFS	NF-LCF12-D01	Connector - LCF12-50 - N Female Connectors	2
	Miscellaneous	Tessco Technologies	415105	Universal Ground Bar	2
	Miscellaneous	PolyPhaser	IS-50NX-C2	Type N F/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50kA, Blocking Cap, Bracket Up, Hole Mount	1
	Miscellaneous	Commscope	SG12-12B2U	SureGround® Grounding Kit for 1/2 in coaxial cable	1
	Miscellaneous	Generic	N type adaptor (F-F)	N-type adaptor (Female - Female)	1
	Power Supply	Comba	BBUV3-LFP48030	CriticalPoint g (V3 / NG) Battery Backup Unit (Optional dedicated Battery Backup Solution for Comba BDA V3 platform) 100-240VAC input, 48 VDC output, 30 Amp-Hour Power System, UL50E Type 4 / NEMA 4 Enclosure	1
	Repeater	Comba	RX78V3-A2727P0-S1	CriticalPoint™ (V3 / NG) Public Safety Bi-Directional Amplifier 2W / Fiber DAS Master Unit	1
	Splitter	Comba	DC-R05-ON300C(XH)	(N.America)(Passive) 5 dB Directional Coupler, 698-2700 MHz, N-Female Connectors	7
	Splitter	Comba	DC-R08-ON300C(XH)	(N.America)(Passive) 8 dB Directional Coupler, 698-2700 MHz, N-Female Connectors	3
	Splitter	Comba	DC-R10-ON300C(XH)	(N.America)(Passive) 10 dB Directional Coupler, 698-2700 MHz, N-Female Connectors	3
	Splitter	Comba	DC-R07-ON300C(XH)	(N.America)(Passive) 7 dB Directional Coupler, 698-2700 MHz, N-Female Connectors	3
	Splitter	Comba	DC-R06-ON300C(XH)	(N.America)(Passive) 6 dB Directional Coupler, 698-2700 MHz, N-Female Connectors	1

NOTE:
1. JUMPER QUANTITIES AT PASSIVE DEVICES ARE SUGGESTED. INSTALLER MAY CHOOSE TO INSTALL MORE THAN OR LESS THAN QUANTITY STATED IN BOM ABOVE.




STRUCTURED COMMUNICATIONS
P.O. BOX 1368
SNOHOMISH, WA 98291
425.321.5343

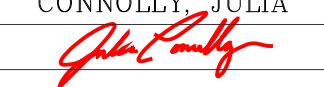
WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE
PUYALLUP, WA
PIERCE COUNTY

FCC



FCC LIC. NO.: PG00085757
FRN: 0029286614
GRANT DATE: 03-05-20
CONNOLLY, JULIA


REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

FACILITY

WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE

NA

DRAWN BY

J.T.

SHEET TITLE

ERCES 0.1

PLAN NAME

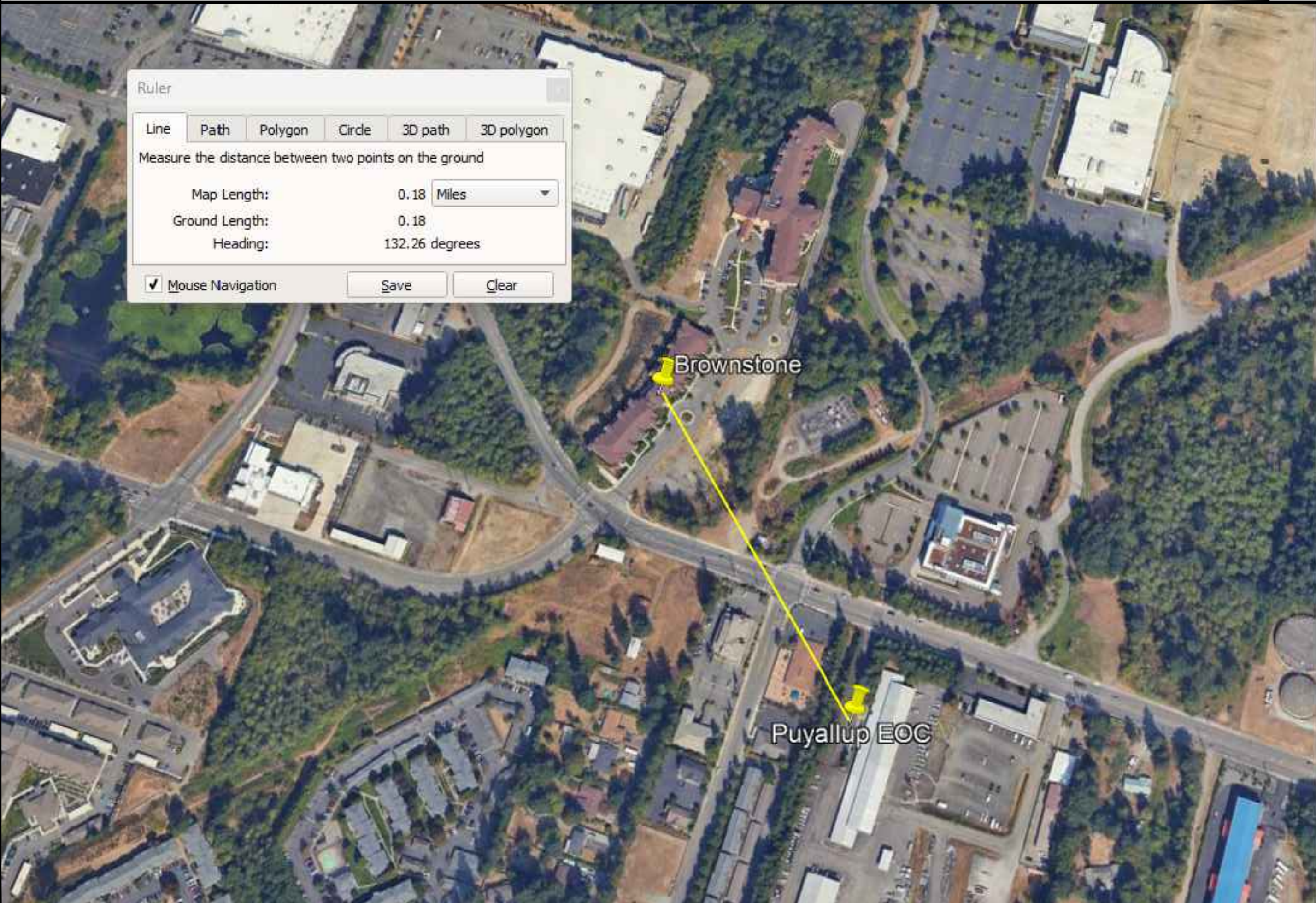
BILL OF MATERIALS

PLOT DATE

11/18/2025

2

OF 27 SHEETS

<div>RESPONSIBILITIES OF THE INSTALLER / SCOPE OF WORK</div> <div><div><div>GENERAL</div><div><div>1. IMPORTANT: PROOF OF AUTHORIZATION TO OPERATE BY THE LICENSE HOLDER MUST BE OBTAINED AND STORED AT THE BDA LOCATION PRIOR TO ACTIVATION.</div><div>2. DRAWINGS AND DESIGN ARE NOT FINALIZED UNTIL APPROVED BY THE AHJ. CONTRACTOR ASSUMES ALL RISK AND LIABILITY IF INSTALLATION AND/OR CONSTRUCTION OF ANY PART OF THESE DRAWINGS IS DONE PRIOR TO APPROVAL BY THE AHJ.</div><div>3. APPLY AND PAY FOR ALL NECESSARY PERMITS.</div><div>4. INSTALL THE ERCES/DAS TO MEET OR EXCEED THE REQUIREMENTS OF ALL APPLICABLE CODES AND GUIDELINES SET FORTH BY THE STATE, COUNTY, CITY AND AHJ. THIS INCLUDES BUT IS NOT LIMITED TO NFPA 1225, "STANDARD FOR EMERGENCY SERVICES COMMUNICATIONS SYSTEMS.</div><div>5. PROCURE ALL EQUIPMENT (PASSIVE AND ACTIVE) INCLUDING BUT NOT LIMITED TO; CONDUIT, JUNCTION BOXES, SUPPORT SYSTEMS, WIRE, ALARM WIRE, FIBER (IF APPLICABLE), AND WATERPROOFING MATERIAL.</div><div>6. PROPERLY INSTALL ALL CABLES AND CONNECTORS, WEATHERPROOF WHEN APPLICABLE.</div><div>7. TEST AND PROVIDE A REPORT FOR ALL CABLE SEGMENTS TO ENSURE RF LOSSES MEET MANUFACTURER SPECIFICATIONS PRIOR TO COMMISSIONING.</div><div>8. PER 2022 NFPA 1225 18.12.3 COMPONENT REQUIREMENTS, ALL CABLES SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTERS 7 & 8 OF NFPA 70.</div><div>9. PER NFPA 1225 18.12.3.3 BACKBONE CABLES AND BACKBONE CABLE COMPONENTS INSTALLED IN BUILDINGS THAT ARE FULLY PROTECTED BY AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 SHALL NOT BE REQUIRED TO HAVE A FIRE RESISTANCE RATING.</div><div>10. PROVIDE SIGNAGE OUTSIDE ALL ROOMS HOUSING ACTIVE ERCES EQUIPMENT, REFERENCE STANDARD DETAILS.</div><div>11. ENSURE ALL ROOMS HOUSING ACTIVE EQUIPMENT HAVE PROPER VENTILATION AND AIR CONDITIONING.</div><div>12. SIZE ALL WIRE GAUGE FOR BDA POWER, RELAY, EPO, AND ALARMING CONNECTIONS.</div><div>13. UL LISTING TYPE 4, 4X OR 2524 OF INSTALLED SYSTEM PROVIDED BY OTHERS IF ENFORCED BY THE AHJ.</div></div></div><div><div>ALARMING</div><div><div>1. A DEDICATED ANNUNCIATOR SHALL BE PROVIDED WITHIN THE FIRE COMMAND CENTER TO ANNUNCIATE THE STATUS OF ALL RF-EMITTING DEVICES AND ACTIVE SYSTEM COMPONENT LOCATIONS PER 2022 NFPA 1225 18.14.2.1.</div><div>2. THE ANNUNCIATOR SHALL PROVIDE VISUAL AND LABELED INDICATIONS OF THE FOLLOWING FOR EACH SYSTEM COMPONENT AND RF-EMITTING DEVICE PER NFPA 1225 18.14.2.2</div><div><div>2.1. NORMAL AC POWER - BBU</div><div>2.2. LOSS OF NORMAL AC POWER - BBU</div><div>2.3. BATTERY CHARGER FAILURE - BBU</div><div>2.4. LOW BATTERY CAPACITY (TO 70% DEPLETION) - BBU</div><div>2.5. DONOR ANTENNA MALFUNCTION - BDA(s)</div><div>2.6. ACTIVE RF EMITTING DEVICE MALFUNCTION - BDA(S) AND/OR REMOTE</div><div>2.7. ACTIVE SYSTEM COMPONENT MALFUNCTION - BDA(S) AND/OR REMOTE</div></div><div>3. PER NFPA 72 12.4.4 A 2HR FIRE RATED CIRCUIT INTEGRITY CABLE IS REQUIRED BETWEEN THE ANN AND THE ERCES EQUIPMENT WHEN NOT LOCATED IN THE SAME 2HR FIRE RATED ROOM (IF APPLICABLE).</div></div></div><div><div>FIRE ALARM MONITORING</div><div><div>1. PER 2022 IFC 510.4.2.5 SYSTEM MONITORING. THE IN-BUILDING, TWO-WAY EMERGENCY RESPONDER COMMUNICATIONS 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:</div><div><div>1.1. LOSS OF NORMAL AC POWER SUPPLY</div><div>1.2. SYSTEM BATTERY CHARGER(S) FAILURE</div><div>1.3. MALFUNCTION OF THE DONOR ANTENNA(S)</div><div>1.4. FAILURE OF ACTIVE RF-EMITTING DEVICE(S)</div><div>1.5. LOW-BATTERY CAPACITY OF 70-PERCENT REDUCTION OF OPERATING CAPACITY</div><div>1.6. FAILURE OF CRITICAL SYSTEM COMPONENTS</div><div>1.7. THE COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE IN-BUILDING, TWO-WAY EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM</div><div>1.8. OSCILLATION OF ACTIVE RF-EMITTING DEVICE(S)</div></div></div></div><div><div>ROOF</div><div><div>1. PER 2022 IFC 510.5.1 MOUNTING OF THE DONOR ANTENNA(S): TO MAINTAIN PROPER ALIGNMENT WITH THE SYSTEM DESIGNED DONOR SITE, DONOR ANTENNAS SHALL BE PERMANENTLY AFFIXED ON THE BUILDING OR WHERE APPROVED, MOUNTED ON A MOVABLE SLED WITH 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 CALIFORNIA BUILDING CODE FOR WEATHER PROTECTION OF THE BUILDING ENVELOPE.</div><div>2. CORRECTLY POSITION DONOR ANTENNA(S) AZIMUTH (SEE DESIGN).</div><div>3. INSTALL NEMA 4 BOX TO MAST PER MANUFACTURER SPECIFICATIONS WHEN APPLICABLE AND ENSURE ALL PENETRATIONS ARE WEATHERPROOF.</div><div>4. GROUND DONOR CABLE(S) USING GROUNDING KIT(S) NO MORE THAN 50' FROM ROOF PENETRATION.</div><div>5. PROVIDE AND INSTALL WEATHERPROOF ROOF PENETRATION.</div><div>6. PROPERLY PROTECT DONOR CABLE(S) ON ROOF USING CONDUIT AND CONDUIT SUPPORTS.</div><div>7. CONTRACTOR TO PROVIDE BUILDING GROUND AT DONOR ANTENNA LOCATION.</div></div></div></div> <div><div>HEADEND / REMOTE LOCATION</div><div><div>1. INSTALL AND GROUND POLYPHASERS PER MANUFACTURER SPECIFICATIONS.</div><div>2. GROUND (OUTDOOR RATED COAX) DONOR CABLE(S) USING GROUNDING KIT(S) NO MORE THAN 50' FROM ROOF PENETRATION.</div><div>3. LIGHTNING PROTECTION MUST COMPLY WITH NFPA 780, PER NFPA 1225 12.10</div><div>4. MOUNT AND INSTALL ALL PASSIVE EQUIPMENT AND ACTIVE DEVICES (BDA, BBU, ANN, ANTENNAS, SPLITTERS, & CABLE) PER MANUFACTURER SPECIFICATIONS AND APPLICABLE BUILDING CODES, INCLUDING PROPER GROUNDING OF EQUIPMENT WHERE REQUIRED.</div><div>5. PROPERLY INSTALL ALL CABLES (COAX AND JUMPERS) AND PASSIVE EQUIPMENT.</div><div>6. SECURE ALL FLOOR MOUNTED EQUIPMENT TO MEET ALL APPLICABLE BUILDING CODES.</div><div>7. PROVIDE A DEDICATED 20 AMP POWER SOURCE WITH BREAKER LOCK TO POWER, CHARGE AND MAINTAIN THE HARD WIRED BBU.</div><div>8. FIRESTOP ALL PENETRATIONS.</div></div></div> <div><div>RISER</div><div><div>1. IF A NON-ACCESSIBLE RISER IS BEING USED, ENSURE THAT A 2HR FIRE RATED ACCESS PANEL IS INSTALLED AND ALL COMPONENTS (SPLITTERS), CABLES AND CONNECTIONS ARE ACCESSIBLE VIA THE ACCESS PANEL.</div><div>2. FIRESTOP ALL PENETRATIONS.</div></div></div> <div><div>INFRASTRUCTURE (HORIZONTAL)</div><div><div>1. VERIFY ALL CABLES OUTSIDE OF RISER AND/ OR HE ROOM ARE ROUTED IN CONDUIT AND MEET A LEVEL 1 SURVIVABILITY AS NOTED ABOVE.</div><div>2. ENSURE ALL CABLES DO NOT EXCEED A MINIMUM 5" BEND RADIUS OR MINIMUM BEND RADIUS SPECIFIED BY THE MANUFACTURER.</div><div>3. ENSURE EACH CABLE SEGMENT HAS LESS THAN 15 BENDS.</div><div>4. FREE AIR MOUNT ALL PASSIVE DEVICES (SPLITTER) IN JUNCTION BOXES, AND VERIFY ALL CABLE ENTERING AND EXITING JUNCTION BOX IS PROPERLY CONNECT TO EACH PASSIVE DEVICE. NM-NF JUMPERS ARE PROVIDED ON BOM TO ENSURE PROPER INSTALLATION.</div><div>5. WHEN CONNECTING MULTIPLE PASSIVE DEVICES IN A SINGLE JUNCTION BOX VERIFY THAT AN NM-NM JUMPER IS USED TO INTERCONNECT ALL DEVICES AND COAX ENTER AND EXITING BOX MEETS INSTALLATION REQUIREMENT NOTED ABOVE.</div><div>6. WHEN PASSIVE DEVICES ARE USED IN HARD LID CEILINGS AN ACCESS PANEL MUST BE PROVIDED. CONTRACTOR TO SIZE AND LOCATE.</div><div>7. MOUNT ANTENNAS TO CEILING, OR JUNCTION BOX WHEN APPLICABLE. ANTENNA MUST NOT BE IMPEDED TO ENSURE PROPER FUNCTION OF THE SYSTEM.</div><div>8. DISTANCE FROM COAX TO THE ANTENNA JUMPER MIGHT BE GREATER THAN THE ANTENNA JUMPER LENGTH. ENSURE THAT THE CABLES ARE NOT STRETCHED THUS COMPROMISING THE FUNCTIONALITY. AN NM-NF JUMPER IS INCLUDED ON THE BOM FOR THIS PURPOSE.</div><div>9. INSTANCES WHERE AN ANTENNA DIRECTLY CONNECTS TO A SPLITTER OR COUPLER A JUMPER IS REQUIRED TO COMPLETE THE CONNECTION. THESE JUMPERS ARE INCLUDED ON THE BOM. VERIFY ALL THESE CONNECTIONS ARE PROPERLY MADE. ALSO SEE PASSIVE COMPONENT RF PATH (ERCES 0.0) TO ENSURE RF PATH IS CORRECT.</div></div></div> <div><div>GENERAL NOTES</div><div><div>1. PRIOR TO THE SUBMISSION OF PRE-CONSTRUCTION DRAWINGS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL FIELD CONDITIONS AND CONFIRM THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF A HETNET WIRELESS REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK.</div><div>2. THE CONTRACTOR SHALL RECEIVE AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.</div><div>3. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER GUIDELINES UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.</div><div>4. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK WITH THE SITE REPRESENTATIVE AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.</div><div>5. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT.</div><div>6. CABLE LENGTHS ARE CRITICAL TO SYSTEM PERFORMANCE, INSTALLATION THAT DEVIATES FROM THE DESIGN REQUIRES APPROVAL FROM HETNET WIRELESS.</div><div>7. ANTENNA PLACEMENT AND CABLE ROUTING IS SCHEMATIC ONLY. ACTUAL ANTENNA PLACEMENT TO BE WITHIN 10' RADIUS OF DESIGN DRAWING AS LONG AS THE ANTENNA FUNCTION IS NOT BEING IMPEDED BY STRUCTURE NOT ALREADY ACCOUNTED FOR IN THE DESIGN MODEL. HETNET WIRELESS SHALL BE NOTIFIED IF THE RELOCATED ANTENNA POSITION EXCEEDS THE 10' RADIUS.</div><div>8. ALL PENETRATIONS THROUGH A FIRE RATED WALL SHALL BE SEALED AS SPECIFIED BY THE MANUFACTURER OF THE FIRE RATED SLEEVE.</div><div>9. A SECONDARY POWER SOURCE IS REQUIRED BY CODE, SOME AHJ MAY REQUIRE A SECONDARY POWER SOURCE EVEN IF EMERGENCY GENERATOR POWER IS AVAILABLE.</div><div>10. ANNUAL TESTING AND MAINTENANCE REQUIRED PER IFC 510.</div><div>11. PER NFPA 1225 CHAPTER 21 AND NFPA 72 CHAPTER 7.2.1(15) COMPLETE RECORDS TO ENSURE OPERATIONAL CAPABILITY OF ALL DISPATCHING SYSTEM FUNCTIONS SHALL BE MAINTAINED, INCLUDING AS-BUILT DRAWINGS AND ACCEPTANCE TEST RECORDS.</div><div>12. THE DESIGN OF THE ERCES AS PROVIDED ON THE PLANS COMPLIES WITH THE CALIFORNIA FIRE CODE, ALL APPLICABLE NFPA STANDARDS AND MEETS ALL LOCAL REQUIREMENTS FOR EMERGENCY RESPONDER RADIO COMMUNICATIONS.</div><div>13. CONTRACTOR IS REQUIRED TO LABEL ALL DEVICES AND CABLES PER RISER DIAGRAM AND FLOOR PLANS. CABLES TO BE LABELED AT EACH END OF THE SEGMENTS. SEE STANDARD DETAILS FOR REFERENCE.</div></div></div> <div><div>CABLE AND COMPONENT TESTING</div><div><div>1. PERFORM AND RECORD A TEST OF EVERY INSTALLED CABLE SEGMENT USING AN RF FDR. (CABLE SEGMENTS SHALL BE TEMPORARILY TERMINATED AT ONE END IN A 50-OHM RESISTIVE LOAD TERMINATION FOR THESE TESTS).</div><div>2. TEST ALL CABLES SEGMENTS (AS DEFINED BELOW) AT FREQUENCY SWEEPS REFLECTIVE OF COMMON SPECTRUM BANDS IN THAT FREQUENCY RANGE (I.E. 136-174 MHZ COVERS THE VHF BAND).</div><div>3. TEST EVERY SEGMENT OF CABLE THAT HAS NO MORE THAN A PAIR OF CONNECTORS INDIVIDUALLY WITH A TERMINATION AT ONE END.</div><div>4. THE RETURN LOSS AT ANY CONNECTOR ALONG A LENGTH OF CABLE SEGMENT SHALL NOT BE GREATER THAN 20dB. INSPECT THE FDR</div></div></div> <div><div>TRACE FOR ANY LOCATIONS OTHER THAN CONNECTORS WHERE RETURN LOSS IS BELOW NOMINAL VALUE. IF APPARENT CAUSE IS IN PROXIMITY TO EXTERNAL METAL DEVICES, CORRECT THE ROUTING OF THE CABLE AND RE-TEST. IF STRETCHING,TEARING OF CABLE OR ITS MATERIALS OCCURS REPLACE THE SECTION OF CABLE AND RE-TEST.</div><div>5. A COPY OF THE CABLE TEST REPORTS SHALL BE KEPT ON-SITE AND INCLUDED IN THE AS-BUILT RECORDS.</div></div> <div><div>ELECTRICAL NOTES</div><div><div>1. BACK BOXES, PULL BOXES, CONDUIT, AND PULL STRINGS IN CONDUIT ARE TO BE PROVIDED BY ELECTRICAL CONTRACTOR. CONDUIT ROUTE MAY REQUIRE MODIFICATION DUE TO CONSTRUCTION FIELD CONDITIONS.</div><div>2. A LICENSED ELECTRICIAN SHALL SIZE AND INSTALL THE CONNECTIONS FROM THE POWER SOURCE TO THE EQUIPMENT PER MANUFACTURER'S GUIDELINES AND ALL APPLICABLE CODES.</div></div></div> <div><div>PATHWAY NOTES</div><div><div>1. ALL CABLE PATHWAYS SHALL MEET CURRENT REQUIREMENTS SET FORTH BY STATE, CITY, AND LOCAL ORDINANCES.</div><div>2. ALL HORIZONTAL CABLE MUST BE PLACED IN CONDUIT UNLESS OTHERWISE NOTED. CONDUIT SIZING DONE BY INSTALLER.</div><div>3. CONDUIT SHALL BE PLACED IN PARALLEL WITH WALLS UNLESS OTHERWISE NOTED.</div><div>4. CONDUIT RUNS SHALL NOT CONTAIN LB'S.</div><div>5. CONDUIT RUNS SHALL HAVE ADEQUATE PULL BOXES ON EXTENDED RUNS.</div><div>6. REAM ALL CONDUIT ENDS. FIT STUBBED CONDUITS WITH AN INSULATED BUSHING. DEBURR SHARP EDGES THAT MAY DAMAGE CABLE DURING INSTALLATION OR SERVICE. EQUIP ALL CONDUIT WITH PULL CORD WITH A MINIMUM TEST RATING OF 200LBS.</div><div>7. CONTRACTOR SHALL MAINTAIN PROPER BEND RADIUS FOR ALL CONDUIT RUNS UNLESS NOTED OTHERWISE.</div><div>8. PULL BOXES AND JUNCTION BOXES SHALL BE SIZED AND PROVIDED BY THE INSTALLER.</div></div></div> <div><div>CABLING NOTES</div><div><div>1. DO NOT USE METAL STAPLES OR OTHER METHODS THAT KINK OR DEFORM CABLE JACKET. CABLE HANGERS DESIGNED FOR THE SIZE OF THE COAX SHALL BE USED.</div><div>2. NO SPLICES ARE PERMITTED.</div><div>3. ALL EXPOSED CONNECTION HARDWARE SHALL BE PROTECTED FROM PLASTER, PAINT AND OTHER SUCH MATERIALS.</div><div>4. ALL LOW-VOLTAGE WIRING SHOULD BE RUN AT LEAST ONE STUD BAY APART (12" MINIMUM) FROM ANY PARALLEL HIGH-VOLTAGE WIRING, AND CROSS AT RIGHT ANGLES WHENEVER NECESSARY. WHERE THERE IS SUFFICIENT CLEARANCE TO MEET THAT REQUIREMENT, THE CABLING MUST BE ARRANGED TO PROVIDE THE MAXIMUM POSSIBLE SEPARATION, OVER AS MUCH DISTANCE AS POSSIBLE (UNDER NO CIRCUMSTANCES SHALL THE LATERAL DISTANCE BE LESS THAN 4" WITHOUT SUPPLEMENTAL SHIELDING). THE ONLY EXCEPTION IS WHERE CABLES CROSS AT RIGHT ANGLES, WHERE A 2" MINIMUM SEPARATION MUST BE MAINTAINED.</div><div>5. PROTECTING CABLING FROM DAMAGE IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR. ALL CABLING MUST BE RUN WHERE IT IS UNLIKELY TO BE DAMAGED AFTER INSTALLATION, NAIL PLATES SHOULD BE INSTALLED WHERE CABLING PASSES THROUGH WALL STUDS, WHERE STEEL FRAMING IS USED, PLASTIC BUSHINGS MUST BE INSTALLED WHEREVER CABLES PASS THROUGH METAL STRUCTURAL MEMBERS. CABLES MUST NOT TOUCH ANY EDGES OF METAL FRAMING.</div><div>6. ALL CABLING MUST BE PROPERLY SUPPORTED AND SECURED IN A WAY THAT WILL NOT COMPRESS OR DEFORM THE CABLES.</div><div>7. THIS DESIGN INCLUDES JUMPERS IN THE BOM THAT DESPITE NOT BEING ILLUSTRATED IN THE DRAWINGS ARE TO BE INSTALLED IMMEDIATELY BEFORE AND AFTER EACH SPLITTER, COUPLER AND/OR TAPPER WHERE APPLICABLE.</div><div>8. IF APPLICABLE, SINGLE MODE FUSION SPLICED FIBER PROVIDED BY OTHERS. SC/APC CONNECTORS PROVIDED IN BOM.</div><div>9. COMMUNICATION AND SIGNAL CIRCUITS SHALL BE IDENTIFIED BY A DISTINCTIVE COLOR ON COVERS OR DOORS. THE WORDS "EMERGENCY COMMUNICATIONS-SIGNAL CIRCUIT" SHALL BE CLEARLY MARKED ON ALL TERMINAL AND JUNCTION LOCATIONS.</div><div>10. CONTRACTOR, AT THEIR DISCRETION, MAY USE SHORTER JUMPERS WHEN FEASIBLE TO DO SO.</div></div></div> <div><div>FUNCTIONS & CAPABILITIES</div><div><div>1. THE ERCES PROVIDES A METHOD TO AMPLIFY AND DISTRIBUTE EMERGENCY SERVICE PROVIDER RADIO SYSTEM TRANSMISSIONS WITHIN BUILDINGS.</div><div>2. WHEN REQUIRED, CONTRACTORS SHALL HAVE AN FCC-CERTIFIED TECHNICIAN WHO IS QUALIFIED WITH A GENERAL RADIO/TELEPHONE OPERATOR LICENSE (GRO/PG), OR EQUIVALENT, TO REVIEW DESIGN PLANS, PERFORM THE INSTALLATION, AND TEST THE SYSTEM.</div><div>3. CONTRACTORS SHALL PROVIDE AND INSTALL ALL RACKS, FIBER TRAYS, BI-DIRECTIONAL AMPLIFIERS, BACK-UP BATTERY SYSTEMS, AUTO DIALERS, REMOTE HUB/UNITS, ROOF ANTENNAS, MULTI-BAND DIRECTIONAL AND OMNI-DIRECTIONAL ANTENNAS, POWER SUPPLIES, PLENUM RATED COAXIAL CABLE, PLENUM RATED RISER COAXIAL CABLE, POWER CONDITIONERS, CONNECTORS, SPLITTERS, COUPLERS, FIBER OPTIC CABLE, FIBER OPTIC MATERIALS AND CONNECTORS, GROUNDING, AS NEEDED TO PROVIDE A COMPLETE SYSTEM AS DEPICTED ON THE PLANS.</div><div>4. ENCASE ALL ACTIVE DEVICES IN A NEMA 4 DUST/WATER PROOF CABINET IF NOT ALREADY NEMA 4 RATED.</div><div>5. EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEMS SHALL BE PROVIDED WITH AN APPROVED SECONDARY SOURCE OF POWER. THE SECONDARY POWER SUPPLY SHALL BE CAPABLE OF OPERATING THE EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM FOR A PERIOD OF AT LEAST 12 HOURS. WHEN PRIMARY POWER IS LOST, THE POWER SUPPLY TO THE EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM SHALL AUTOMATICALLY TRANSFER TO THE SECONDARY POWER SUPPLY.</div><div>6. INSTALLING CONTRACTOR TO HAVE FIRE DEPARTMENT APPROVED CERTIFIED TECHNICIAN WHO WILL REVIEW CONSTRUCTION PLANS IN ORDER TO ENSURE THAT SUCH PLANS MEET THE AFOREMENTIONED RADIO COMMUNICATION CRITERIA, INCLUDING THE LOCATION OF ALL NECESSARY CONDUIT.</div><div>7. PER 2022 NFPA 1225 18.8.2 THE SYSTEM SHALL ADHERE TO THE MAXIMUM ACCEPTABLE PROPAGATION DELAY STANDARD PROVIDED BY THE AHJ.</div><div>8. PER 2022 NFPA 1225 18.8.4 GENERAL BUILDING AREAS SHALL BE PROVIDED WITH 95% FLOOR AREA RADIO COVERAGE.</div><div>9. PER 2022 NFPA 1225 18.9.1 A MINIMUM DOWNLINK SIGNAL SHALL BE SUFFICIENT SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.4 FOR EITHER ANALOG OR DIGITAL SIGNALS. IF LOCAL AHJ REQUIREMENT HAS A MORE STRINGENT DAQ REQUIREMENT IT SHALL SUPERSEDE NFPA 1225.</div><div>10. PER 2022 NFPA 1225 18.9.2 THE UPLINK SIGNAL SHALL BE SUFFICIENT TO PROVIDE A MINIMUM OF DAQ 3.4 FOR EITHER ANALOG OR DIGITAL SIGNALS. IF LOCAL AHJ REQUIREMENT HAS A MORE STRINGENT DAQ REQUIREMENT IT SHALL SUPERSEDE NFPA 1225.</div></div></div>		<div>DONOR SITE MAP</div> <div></div>
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DONOR SITE MAP



STRUCTURED COMMUNICATIONS

P.O. BOX 1368

SNOHOMISH, WA 98291

425.321.5343

WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE

PUYALLUP, WA

PIERCE COUNTY

FCC

FEDERAL COMMUNICATIONS COMMISSION

FC

USA

FCC LIC. NO.: PG00065757
FRN: 0029286614
GRANT DATE: 03-05-20
CONNOLLY, JULIA
Julia Connolly

REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25

City of Puyallup

Development & Permitting Services

ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

FACILITY

WESLEY HOMES BUILDING D EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES)

SCALE

NA

DRAWN BY

J.T.

SHEET TITLE

ERCES 0.2

PLAN NAME

NOTES & DONOR INFORMATION

PLOT DATE

11/18/2025

3

OF 27 SHEETS

INDOOR ANTENNA

ventev

698-960/1710-2700 MHz 2/5 dBi LTE Omnidirectional Antenna with N-Style Female Connector



Ventev's 698-960/1710-2700 MHz 2/5 dBi high gain ceiling mount antenna is designed for indoor wireless networks operating in the LTE, Cellular or 2.4GHz frequency range. This antenna is ideal for any indoor voice and data wireless system. Includes an N-style Female connector and a ceiling mount.

Every Ventev antenna is RoHS compliant and covered by Ventev's two-year TerraNet warranty program.

For more information or to purchase, contact Ventev: 800.851.4965 or sales@ventev.com.

SPECIFICATIONS

SKU: 399611

Model Number: M3020050011206

Frequency Range: 698-960 MHz / 1710-2700 MHz

Gain: 2 / 5 dBi

Vertical Beamwidth: 85°±15° / 45°±15°

Polarization: Vertical

Maximum Input Power: 100 W

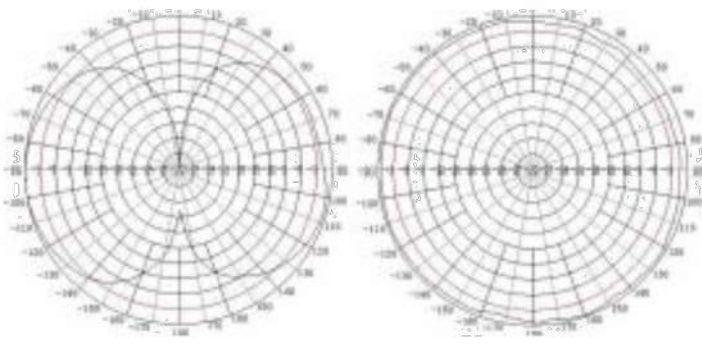
Connector Type: N-Female

Dimensions: 6.69 X 2.83"

Weight: .53 lbs.

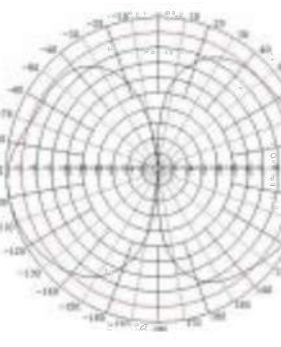
Mounting Method(s): ceiling

RADIATION PATTERNS



E-Plane: 700-960MHz

H-Plane: 700-960MHz



E-Plane: 1710-2700MHz

H-Plane: 1710-2700MHz

TerraWave by Ventev

www.ventev.com/infra

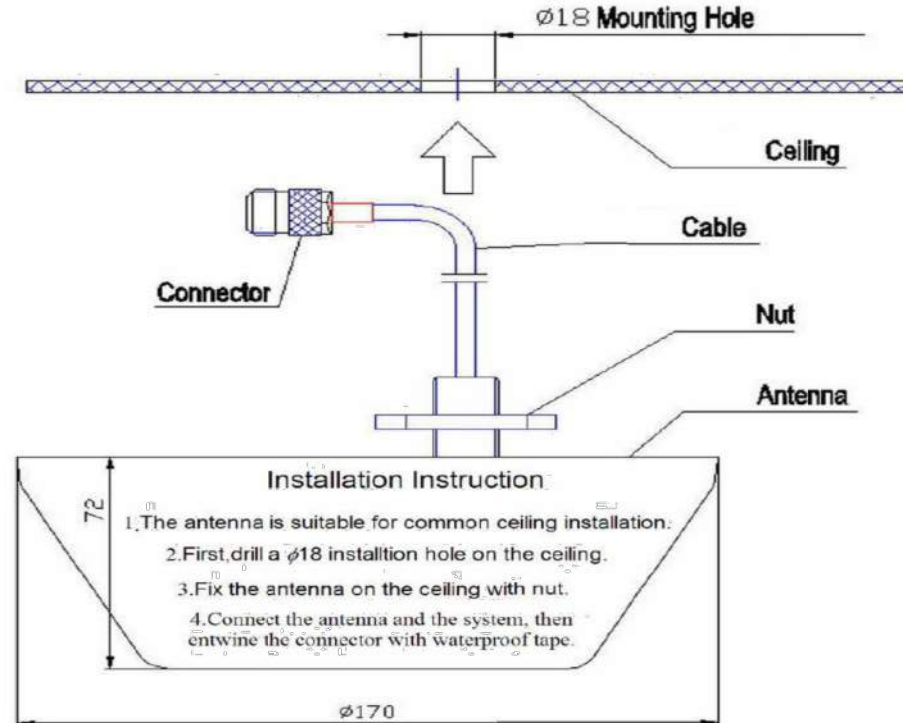
sales@ventev.com

800.851.4965

ventev

698-960/1710-2700 MHz 2/5 dBi LTE Omnidirectional Antenna with N-Style Female Connector

MOUNT INFORMATION



Installation Instructions

- Drill a .71" installation hole on the ceiling.
- Fix the antenna on the ceiling with nut.
- Connect antenna and the system. It is recommended to cover the connector with waterproof tape for further protection.

www.ventev.com/infra

sales@ventev.com

800.851.4965

OUTDOOR ANTENNA

High Gain Directional Antenna

698-960 MHz, 30° Azimuth, 1x Port

ventev
Connect, Protect, and Enable™

Ventev's high gain directional panel antenna offers a narrow beam (30° HBW) pattern with higher front-to-back ratio and lower VSWR providing efficient performance. The antenna covers 698 to 960 MHz supporting cellular 700, 850, SMR 800, GSM 900 bands and ideal for donor applications in DAS networks. Suitable for outdoor applications, the rugged design offers UV protected radome and broader operating temperature range. The antenna ships with a 2-point heavy-duty hot-dipped galvanized pole bracket that offers up to 25° of down-tilt.

Specifications

SKU	606328
Manufacturer Part Number	VHG-VL3015-ODNF
Operating Frequency Range	698-806/806-960 MHz
Gain	15/16 dBi
Polarization	Vertical
Vertical Beamwidth	29° ± 3°/26° ± 3°
Horizontal Beamwidth	29° ± 3°/26° ± 3°
VSWR	≤ 1.5
Nominal Impedance	50 Ohms
Max Input Power	100 W
Front-to-Back Ratio	≥ 30 dB
PIM, IM3, 2 x 20 W (43dBm)	≤ -153
Number of Ports	1
RF Connector	N Female
Connector Position	Back of Antenna
Application	Outdoor
Operating Temperature	-40 to 140° F
Dimensions	27.6 x 27.6 x 5.3 in.
Weight	32.6 lbs. / 42.5 lbs. with bracket
Radome	White Fiberglass
Mounting Hardware	Heavy-duty hot-dipped galvanized bracket included; 2-3.5 in. OD pole bracket allows 25° down-tilt
Lightning Protection	DC Grounding
Wind Load	134 mph

Radiation Patterns

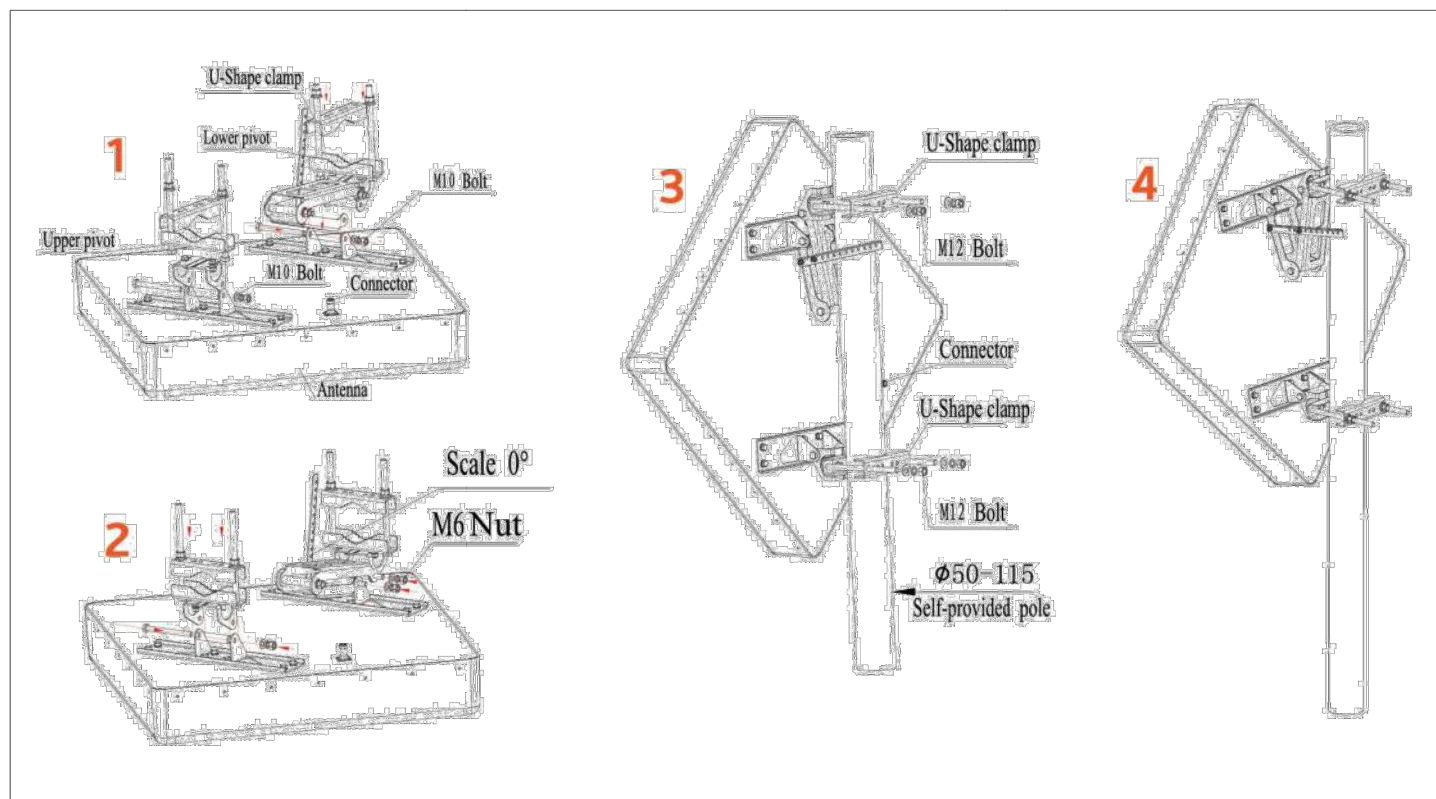


Features & Benefits

- High gain narrow beam directional antenna covering 698-960MHz frequency range.
- Supports cellular 700/SMR800/ cellular 850/GSM900 MHz bands.
- Rugged design suitable for outdoor deployments.
- Ideal for donor applications.
- 2-point heavy duty pole mount bracket with adjustable down-tilt included.

All product specifications are subject to change without notice or obligation.

Installation Diagrams



Installation Instructions

- First install the M10 bolt and u-shape clamp on the upper and lower brackets of the antenna and pre-tighten the M10 nuts. Then fasten the brackets to the back of antenna with M10 bolt, torquing the nut to 47N·m.

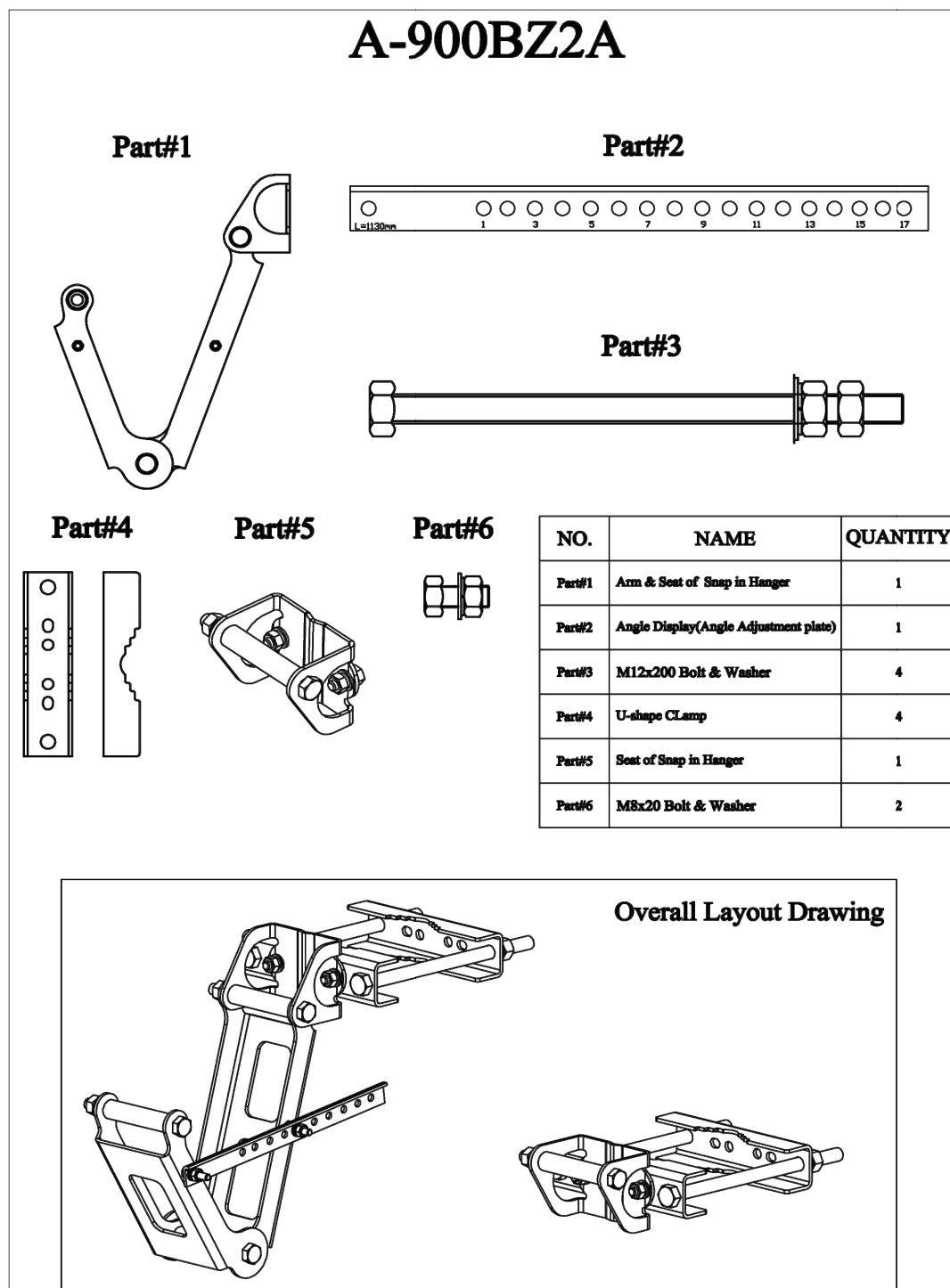
- Tighten the scale to the upper bracket with the M6 nut, fix the scale to 0 degree position, torquing the nut to 8N·m. (Above steps must be completed under the tower before installing the antenna).

- Installing the antenna vertically to the support pole using M12 bolt, torquing the nut to 86N·m.

- Loosening the scale fixing nut on the upper bracket, adjust the mechanical downtilt angle of antenna to the suitable angle based on the scale display, then tightening the scale and all nuts on the bracket.

All product specifications are subject to change without notice or obligation.

Accessory Diagrams



POLYPHASER

iPolyPhaser
an INFINITO brand

Type N F/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50kA, Blocking Cap, Bracket Up, Hole Mount



IS-50NX-C2

Features

- Surge current of 50kA
- Max Power 375W
- Frequency range from 125 MHz to 1000 MHz
- N Female to N Female connectors

- VSWR <1:1:1
- Multi-strike capability
- CE & RoHS compliant

Applications

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

Description

RF surge protector (also known as lightning arrestor or surge arrester) IS-50NX-C2 from PolyPhaser, integrating a RF blocking capacitor with a gas tube (GT or GDT). This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Surge Protector Type				
DC Handling				
Frequency Range	125		1,000	MHz
Impedance		50		Ohms
VSWR			1:1:1	
Insertion Loss			0.1	dB
Input Power, CW			375	Watts
375W @ 25 to 220MHz				
125W @ 220 to 700MHz				
50W @ 700 to 1000MHz				

Surge Current	IEC 61000-4-6 8/20µs WAVEFORM	50	kA
Turn On Voltage		600 ±20%	Volts
Throughput Energy	@ 3kA, 8/20µs WAVEFORM	220	uJ

Mechanical Specifications

Size	
Length	2.45 in [62.23 mm]
Width/Diameter	1.75 in [44.45 mm]
Height	1.5 in [38.1 mm]
Weight	0.3 lbs [136.08 g]

Configuration

Input Connector

N Female

Output Connector

N Female

Environmental Specifications

Temperature

Operating Range

-50 to +50 deg C

Storage Range

-55 to +85 deg C

Ingress Protection (IP) Rating

None

Vibration

1G up to 100Hz

Compliance Certifications

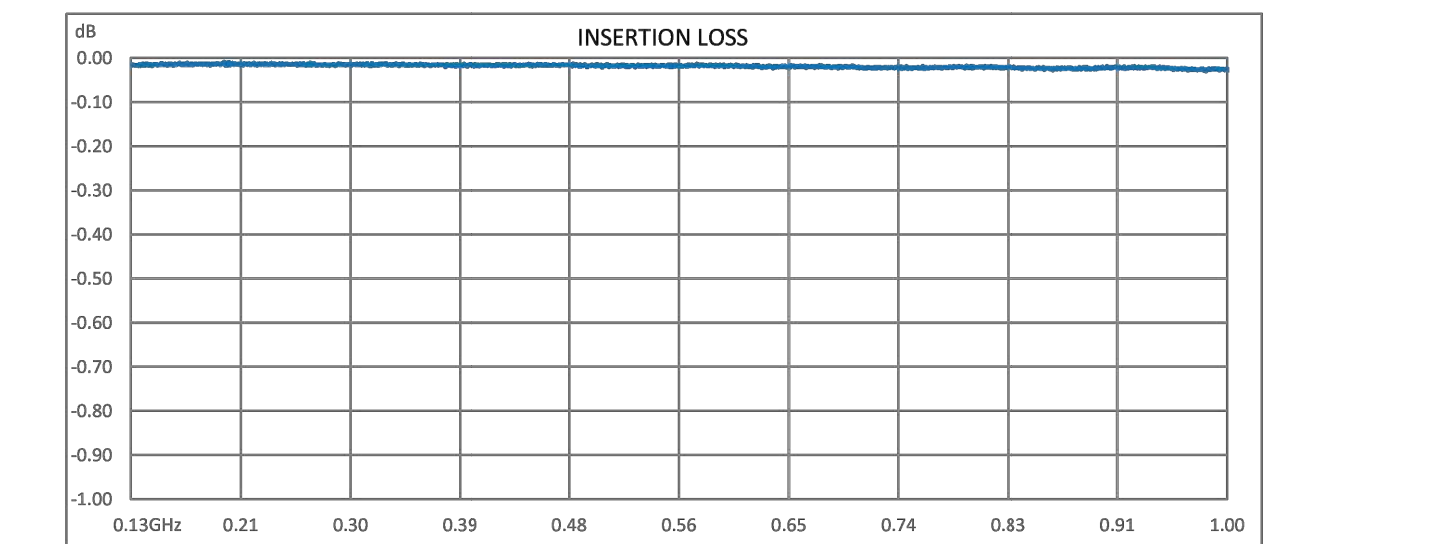
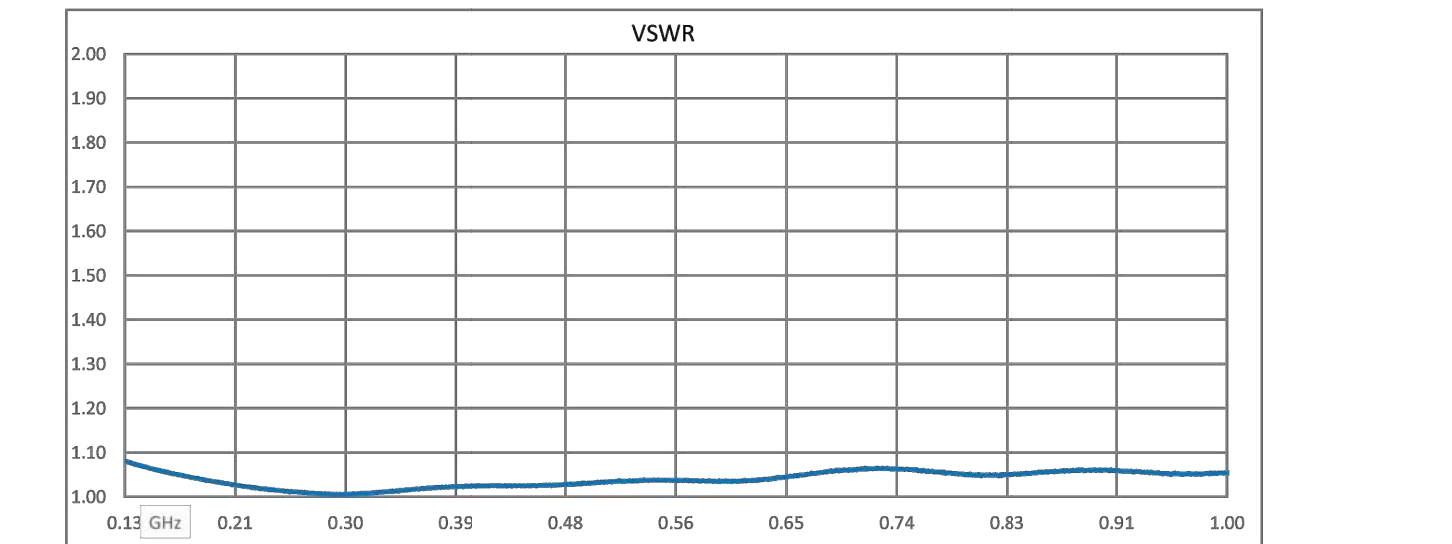
RoHS

CE

Plotted and Other Data

Notes:

Typical Performance Data



PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: Type N F/F Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 375W, 220uJ, 50kA, Blocking Cap, Bracket Up, Hole Mount IS-50NX-C2

URL: <https://www.polyphaser.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-is-50nx-c2-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

COUPLER

Wideband Directional Coupler

DC-Rxx-ON300C(XH)

Low PIM(-153dB), 698-2700MHz, N-Female, 300W

Comba
Keep You Connected

- Wideband design covering 698-2700MHz
- Available 5, 6, 7, 8, 10, 13, 15, 20, 30 & 40dB values
- Suitable for indoor/outdoor environment
- High Reliability and Low Insertion Loss

Electrical Specification

Product Model	DC-R05-ON300C (XH)	DC-R06-ON300C (XH)	DC-R07-ON300C (XH)	DC-R08-ON300C (XH)	DC-R10-ON300C (XH)	DC-R13-ON300C (XH)	DC-R15-ON300C (XH)	DC-R20-ON300C (XH)	DC-R30-ON300C (XH)	DC-R40-ON300C (XH)
Frequency (MHz)	698-2700									
Coupling (dB)	5.0	6.0	7.0	8.0	10.0	13.0	15.0	20.0	30.0	40.0
Coupling Tolerance (dB)	±0.8	±0.8	±0.8	±0.8	±0.8	±1.0	±1.0	±1.2	±1.5	±1.5
Loss (dB)	≤2.1	≤1.7	≤1.4	≤1.2	≤0.7	≤0.5	≤0.4	≤0.3	≤0.2	≤0.2
Isolation (dB)	≥25	≥26	≥27	≥28	≥30	≥33	≥35	≥40	≥45	≥55
VSWR @ Input port	≤1.25									
PIM (dBc)	<-153 @ 2 x 43dBm									
Average Power, max (W)	300									
Peak Power, max (W)	1000									
Impedance (ohm)	50									

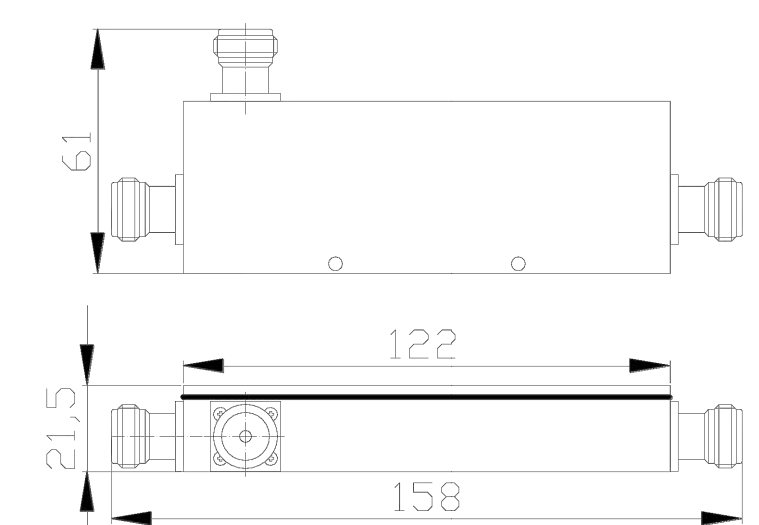
Mechanical Specification

Dimension (in/mm)	6.2x2.4x0.8 / 158x61x21.5
Weight (lb/kg)	0.75 / 0.34
Connector	N-Female

Environment & Compliance

Application	Outdoor / Indoor
Operating Temperature	-40°C to +80°C
Environment	IP65
Relative Humidity	Up to 95%
RoHS	Compliant

Outline Drawing



DS Control
1-0-0/0316

Comba Telecom Inc. 235 Charcot Avenue, San Jose, CA 95131. <http://www.combausa.com/>
Tel: +1 866 802 7961, combausa@comba-telecom.com, Fax: +1 408 526 0181

Page 1 of 1

WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE

PUYALLUP, WA

PIERCE COUNTY

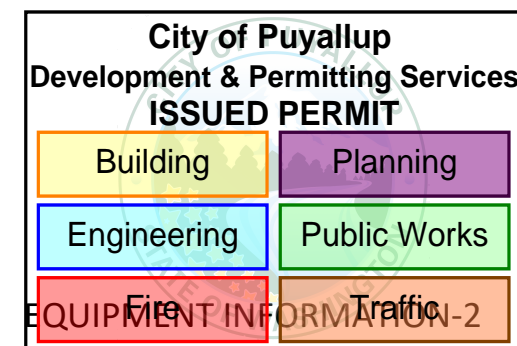
STRUCTURED
COMMUNICATIONS
P.O. BOX 1368
SNOHOMISH, WA 98291
425.321.5343

FCC



REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25



FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE NA

DRAWN BY J.T.

SHEET TITLE

ERCES 0.4

PLAN NAME
EQUIPMENT INFORMATION-2













PLOT DATE

11/18/2025

5 OF 27 SHEETS

1. RISER CONDUIT NOT SHOWN FOR CLARITY.
2. CONDUIT REQUIRED IN RISERS AND PARKING AREAS.
3. ALL HORIZONTAL CABLING INSTALLED ABOVE TEN FEET WILL BE RUN USING OPEN CABLING METHODS. NO METALLIC RACEWAYS (CONDUITS).
4. DONOR ANTENNA SURGE PROTECTOR TO BE INSTALLED INTERNALLY TO THE BUILDING.
5. DONOR ANTENNA FEED LINE SHALL BE EQUIPPED WITH A GROUND ATTACHMENT WHICH SHALL BE GROUNDED TO THE BUILDING MASTER GROUND AT THE BUILDING SERVICE ENTRANCE POINT WHENEVER POSSIBLE.

6. DONOR ANTENNA MOUNTING STRUCTURES SHALL BE GROUNDED TO THE MASTER BUILDING GROUND BUS.
7. ALL ACTIVE DEVICES SHALL BE GROUNDED PURSUANT TO NFPA 780.
8. ALL ACTIVE DEVICES SHALL BE GROUNDED TO THE MASTER BUILDING GROUND BUS.
9. ALL GROUND CONNECTIONS SHALL BE MADE WITH STRANDED COPPER WIRE NO SMALLER THAN #2 AWG.

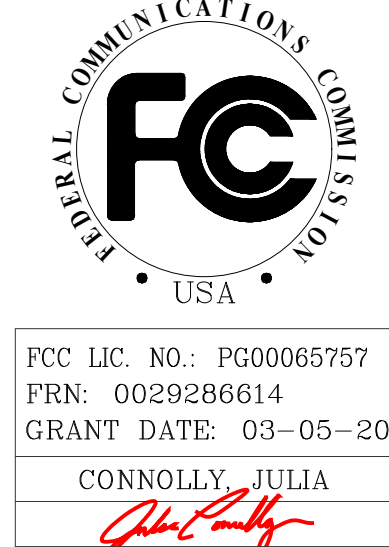
CABLE LEGEND		SYMBOL LEGEND	
	ICA12-50JPLR - (1/2" PLENUM COAX)	 DONOR ANTENNA	 BI-DIRECTIONAL AMPLIFIER
	ICA12-50JPLR-ARMR - (1/2" PLENUM COAX)	 OMNI ANTENNA	 BATTERY BACKUP UNIT
	LCF12-50J - (1/2" OUTDOOR COAX)	 COUPLER/TAPPER	
	2HB12-50JPLR - (1/2" 2HR COAX)	 POLYPHASER	
	3' N-MALE - N-FEMALE JUMPER		
	3' N-MALE - N-MALE JUMPER		
	LMR-400-DB		



WESLEY HOMES BUILDING D

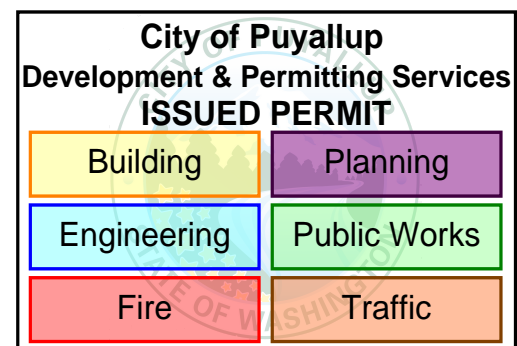
PREPARED FOR STRUCTURED COMMUNICATIONS
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PIERCE COUNTY

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FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE	NA
DRAWN BY	J.T.

SHEET TITLE

ERCES 1.0

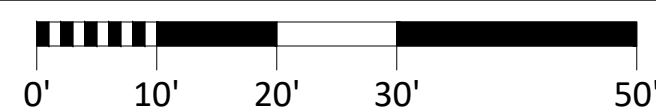
PLAN NAME	RISER
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PLOT DATE

NOTE:
1. EMT NOT SHOWN FOR CLARITY.
2. EMT TO BE RAN IN CONCRETE SLAB

LEVEL 0 OVERALL

SCALE: 1/16" = 1'-0"



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PUYALLUP, WA

PIERCE COUNTY

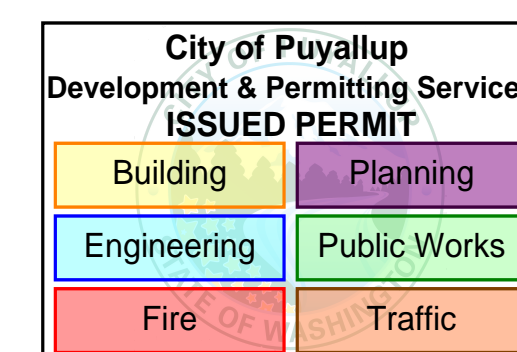
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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/16" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.0

PLAN NAME

LEVEL 0 OVERALL

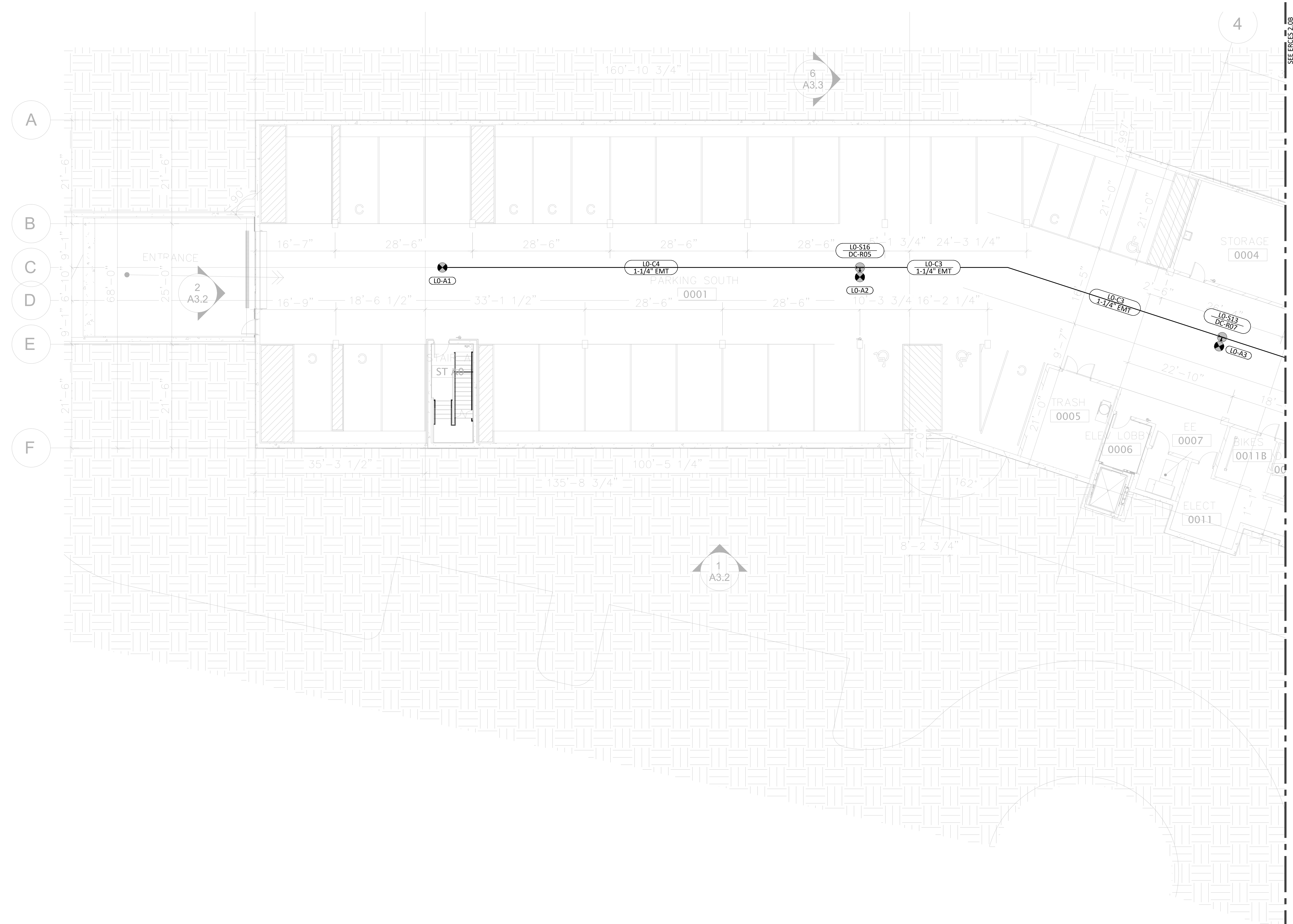
PLOT DATE



11/18/2025

8 OF 27 SHEETS

- NOTE:
1. EMT NOT SHOWN FOR CLARITY.
2. EMT TO BE RAN IN CONCRETE SLAB



LEVEL 0 SECTION A

SCALE: 1/8" = 1'-0"



SEE ERCES 2.0B

SEE ERCES 2.0B



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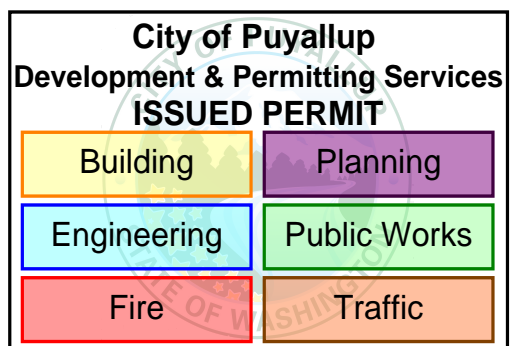
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ENHANCEMENT SYSTEM (ERCES)

SCALE 1/8" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.0A

PLAN NAME
LEVEL 0 SECTION A

PLOT DATE

11/18/2025

9 OF 27 SHEETS

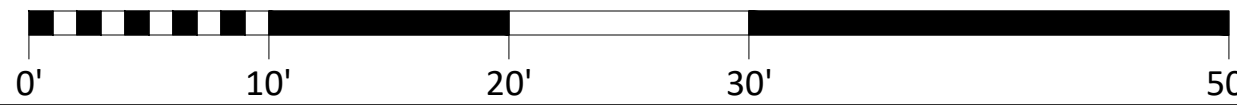
SEE ERCS 2.0A

SEE ERCS 2.0A



LEVEL 0 SECTION B

SCALE: 1/8" = 1'-0"



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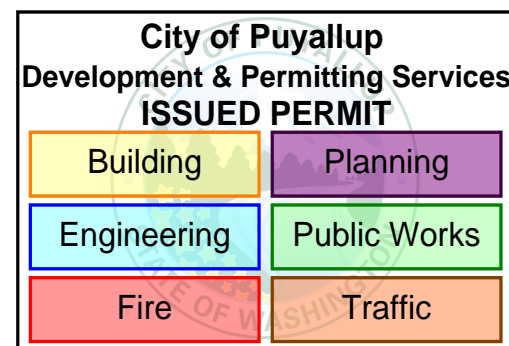
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Julia Connolly

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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE $1/8" = 1'-0"$

DRAWN BY J.T.

SHEET TITLE

ERCES 2.0B

PLAN NAME

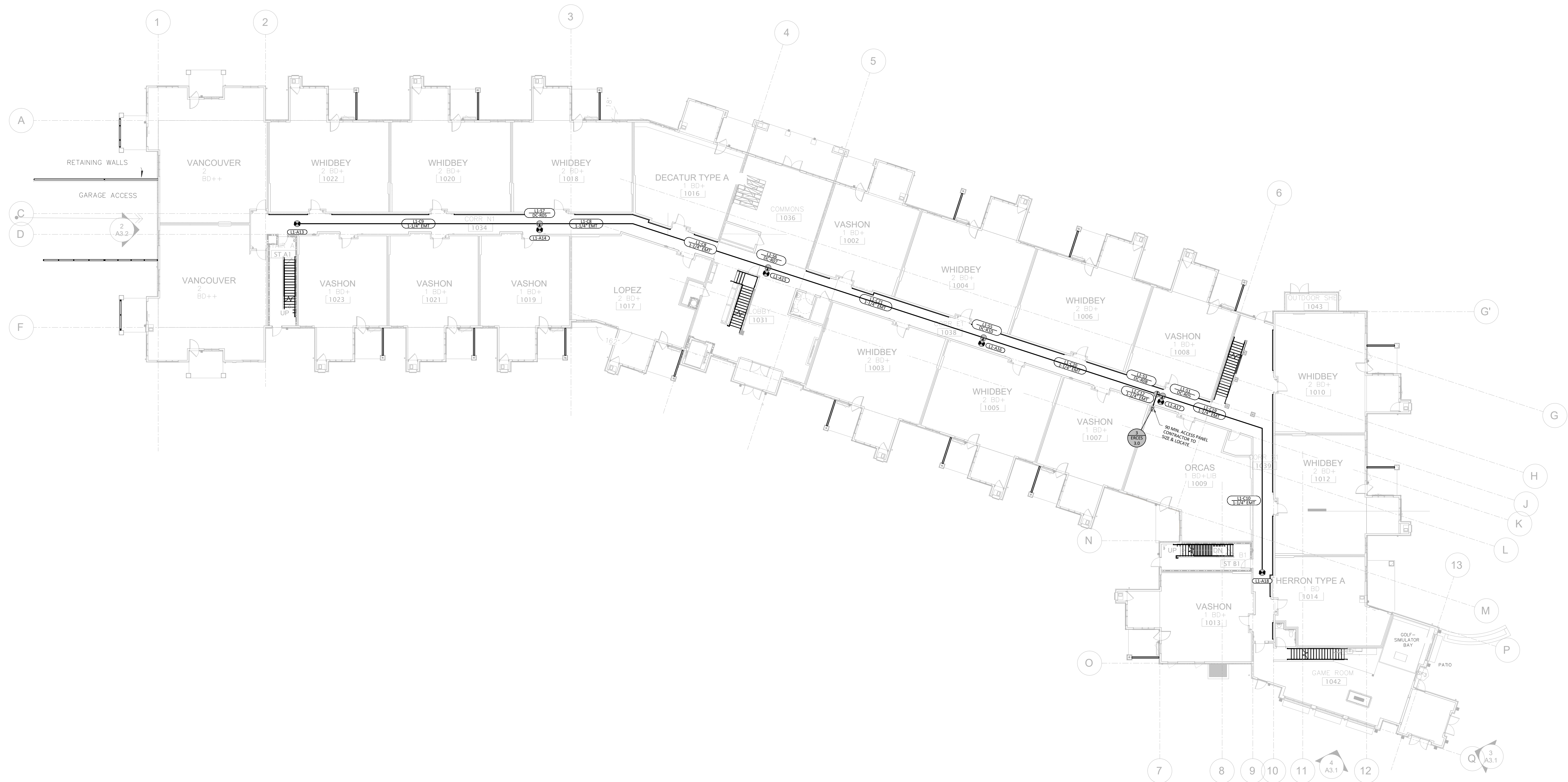
LEVEL 0 SECTION B

PLOT DATE

11/18/2025 10 OF 27 SHEETS

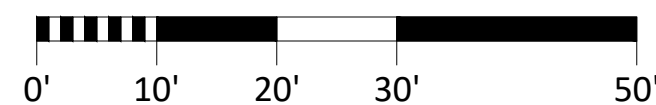


NOTE:
1. EMT NOT SHOWN FOR CLARITY.



LEVEL 1 OVERALL

SCALE: 1/16" = 1'-0"



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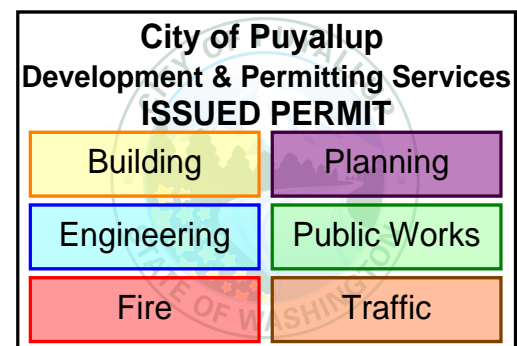
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GRANT DATE: 03-05-20
CONNOLLY, JULIA
Julia

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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/16" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.1

PLAN NAME
LEVEL 1 OVERALL

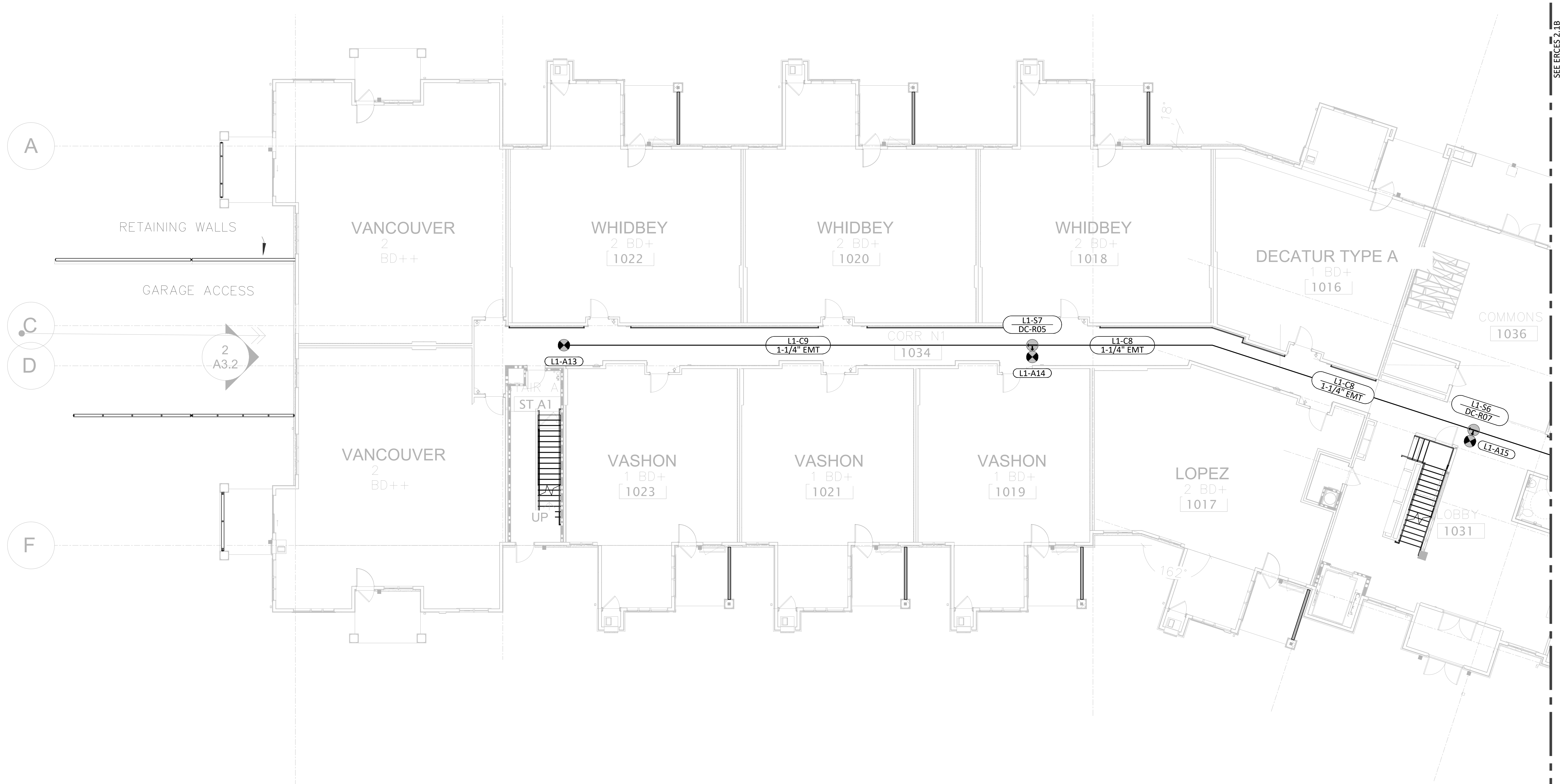
PLOT DATE

11/18/2025

11 OF 27 SHEETS



NOTE:
1. EMT NOT SHOWN FOR CLARITY.



LEVEL 1 SECTION A

SCALE: 1/8" = 1'-0"



SEE ERCES 2.1B

SEE ERCES 2.1B

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PIERCE COUNTY

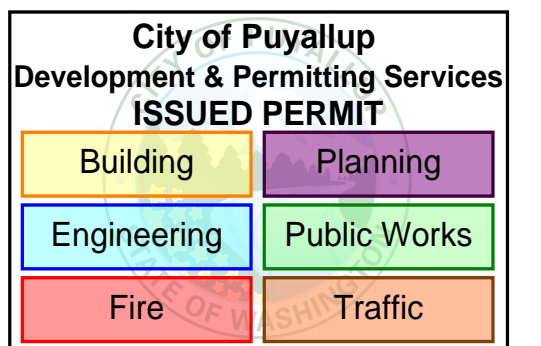
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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/8" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.1A

PLAN NAME
LEVEL 1 SECTION A

PLOT DATE

11/18/2025

12 OF 27 SHEETS

NOTE:
1. EMT NOT SHOWN FOR CLARITY.

SEE ERCES 2.1A

SEE ERCES 2.1A



LEVEL 1 SECTION B

SCALE: 1/8" = 1'-0"



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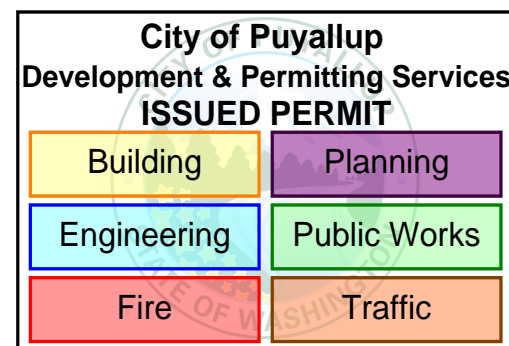
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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/8" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.1B

PLAN NAME
LEVEL 1 SECTION B

PLOT DATE

11/18/2025

13 OF 27 SHEETS

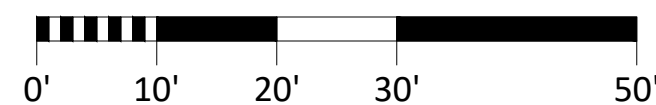


NOTE:
1. EMT NOT SHOWN FOR CLARITY.



LEVEL 2 OVERALL

SCALE: 1/16" = 1'-0"



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PIERCE COUNTY

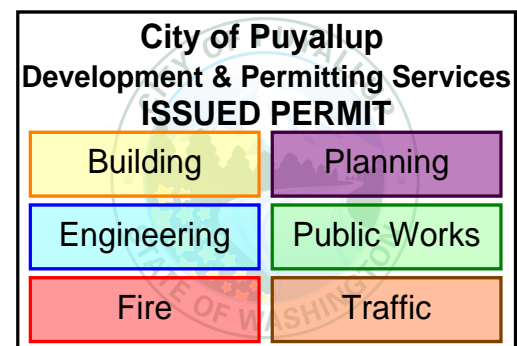
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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/16" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.2

PLAN NAME
LEVEL 2 OVERALL

PLOT DATE

11/18/2025

14 OF 27 SHEETS

NOTE:
1. EMT NOT SHOWN FOR CLARITY.



LEVEL 2 SECTION A

SCALE: 1/8" = 1'-0"



SEE ERCES 2.2B

SEE ERCES 2.2B



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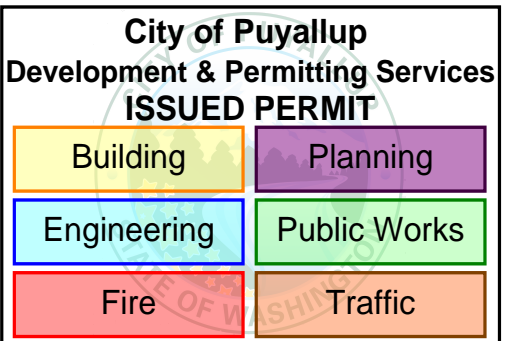
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ENHANCEMENT SYSTEM (ERCES)

SCALE 1/8" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.2A

PLAN NAME
LEVEL 2 SECTION A

PLOT DATE

11/18/2025

15 OF 27 SHEETS




SCALE: 1/8" = 1'-0"



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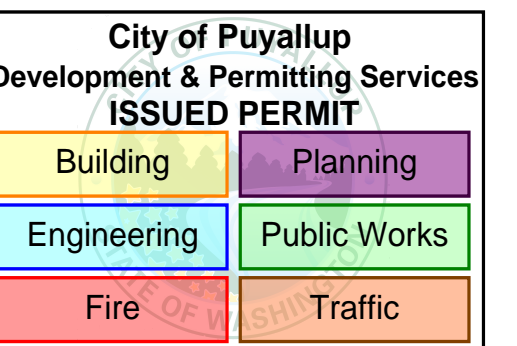
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FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE $1/8" = 1'-0"$

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SHEET TITLE

ERCES 2.2B

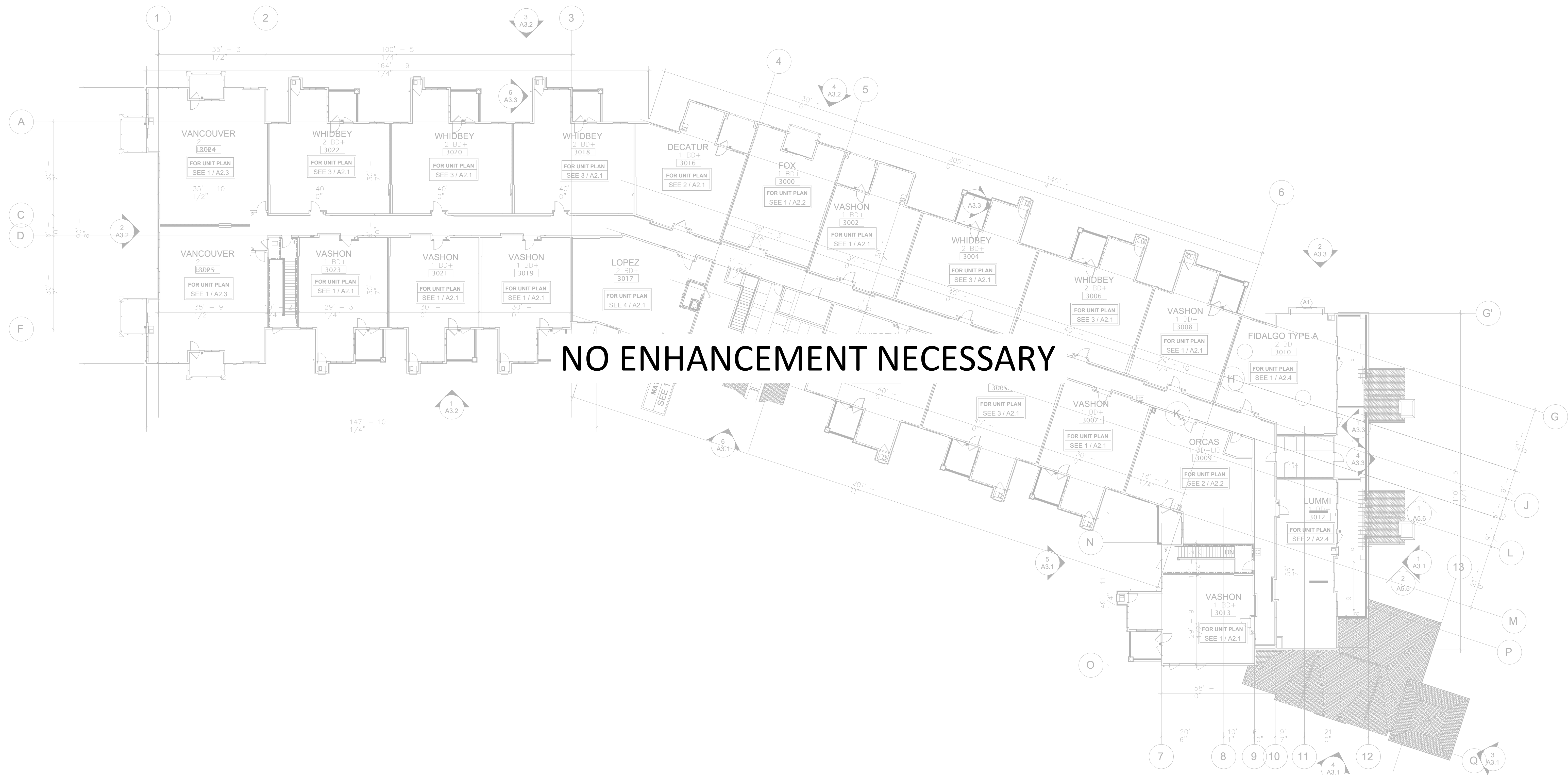
PLAN NAME
LEVEL 2 SECTION B

PLOT DATE

11/18/2025 16 OF 27 SHEETS

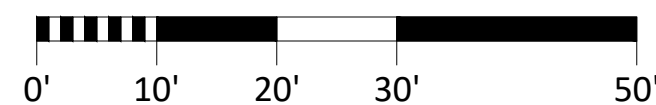


NOTE:
1. NO COMPONENTS ON THIS LEVEL. SHOWN FOR REFERENCE ONLY.



LEVEL 3 OVERALL

SCALE: 1/16" = 1'-0"



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PIERCE COUNTY

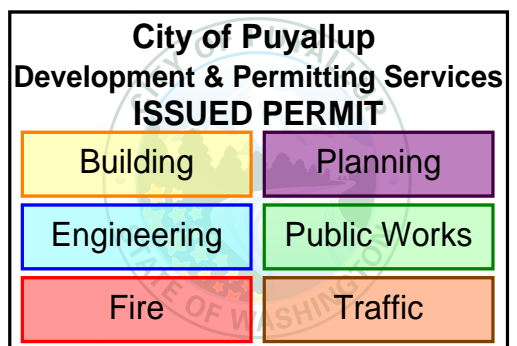
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[Signature]

REVISION

NO.	DESCRIPTION	DATE
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FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/16" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.3

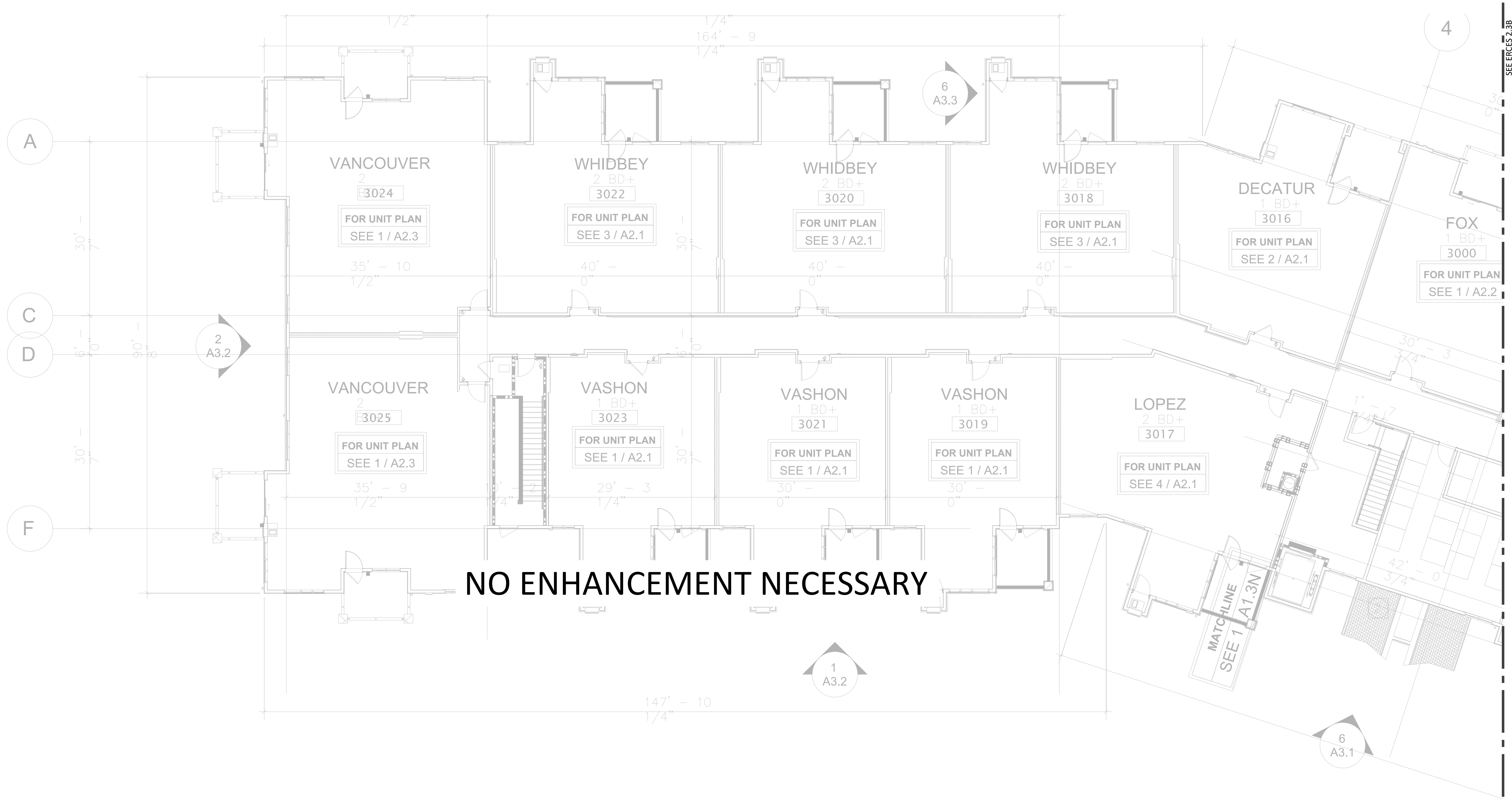
PLAN NAME
LEVEL 3 OVERALL

PLOT DATE

11/18/2025

17 OF 27 SHEETS

NOTE:
1. NO COMPONENTS ON THIS LEVEL. SHOWN FOR REFERENCE ONLY.



NO ENHANCEMENT NECESSARY

LEVEL 3 SECTION A

SCALE: 1/8" = 1'-0"



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PIERCE COUNTY

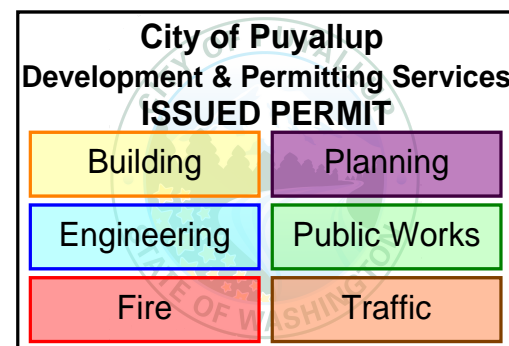
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WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/8" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

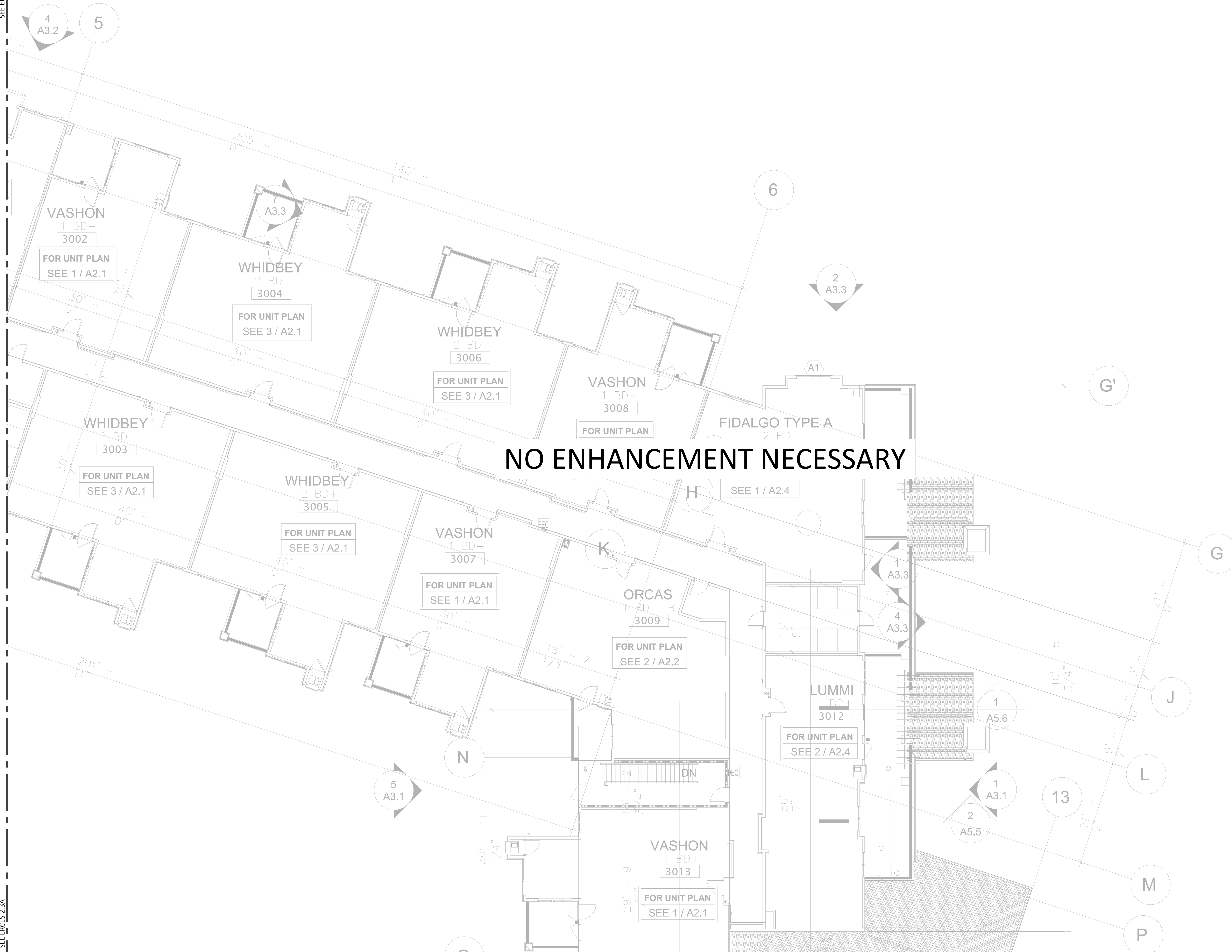
ERCES 2.3A

PLAN NAME
LEVEL 3 SECTION A

PLOT DATE

11/18/2025


18 OF 27 SHEETS



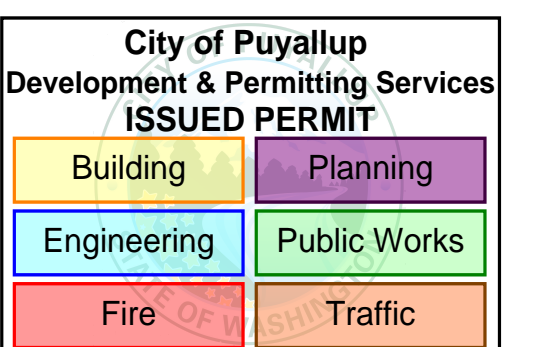
SCALE: 1/8" = 1'-0"



FEDERAL COMMUNICATIONS COMMISSION
USA

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WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE $1/8" = 1'-0"$

DRAWN BY J.T.

SHEET TITLE

ERCES 2.3B

PLAN NAME

LEVEL 3 SECTION B

PLOT DATE

11/18/2025 19 OF 27 SHEETS

NOTE:

1. 2" CONDUIT NOT SHOWN FOR CLARITY.
2. 10' MINIMUM DISTANCE REQUIRED BETWEEN DONOR ANTENNAS.
3. DONOR ANTENNA(S) MUST HAVE DIRECT LINE OF SIGHT TO DONOR SITE. NOT DOING SO WILL COMPROMISE RADIO TRANSMISSION.



ROOF

SCALE: 1/16" = 1'-0"




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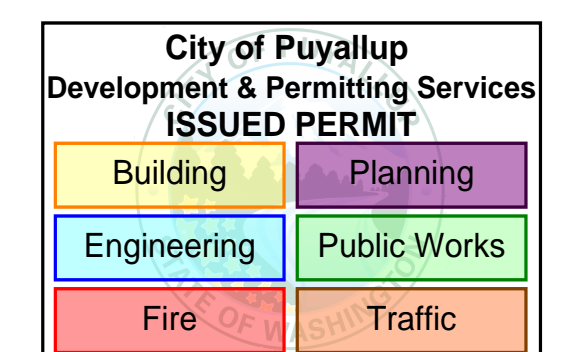
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RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1/16" = 1'-0"

DRAWN BY J.T.

SHEET TITLE

ERCES 2.4

PLAN NAME

ROOF

PLOT DATE


11/18/2025 20 OF 27 SHEETS



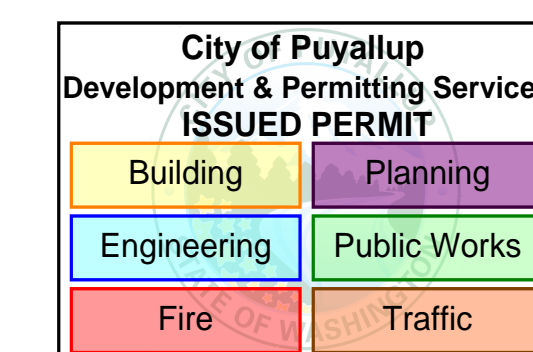
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SCALE: $1/8'' = 1'-0''$

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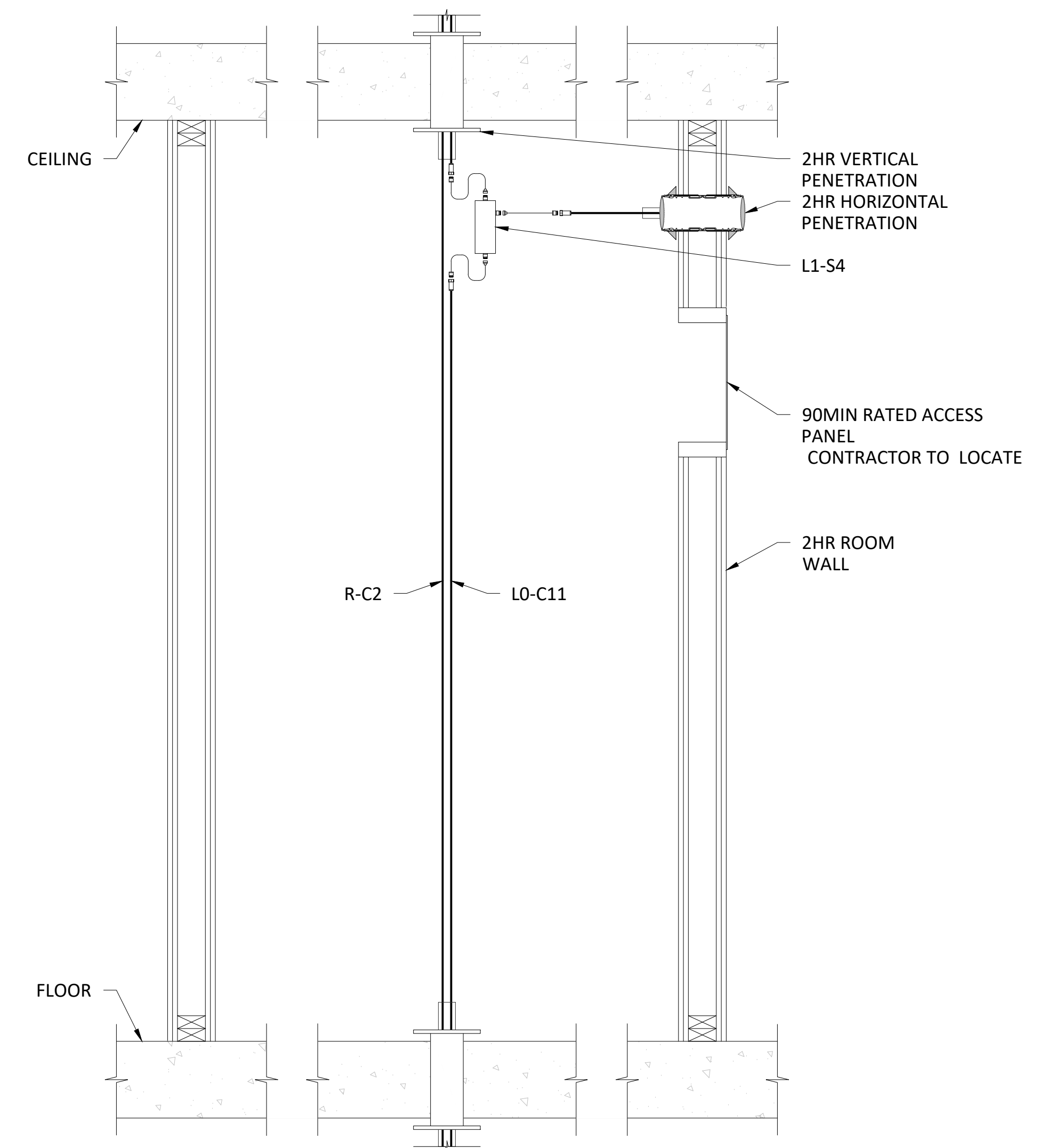
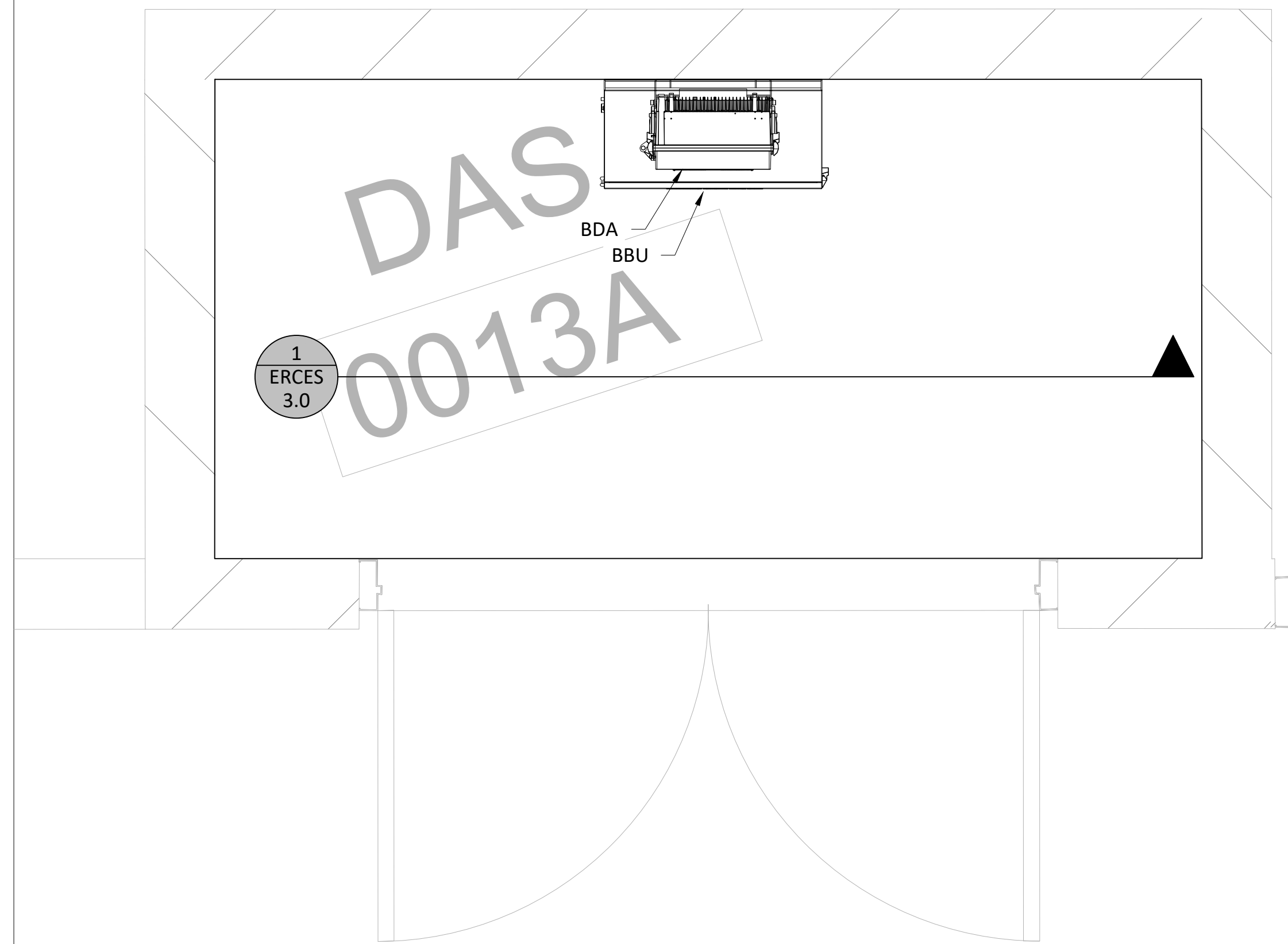
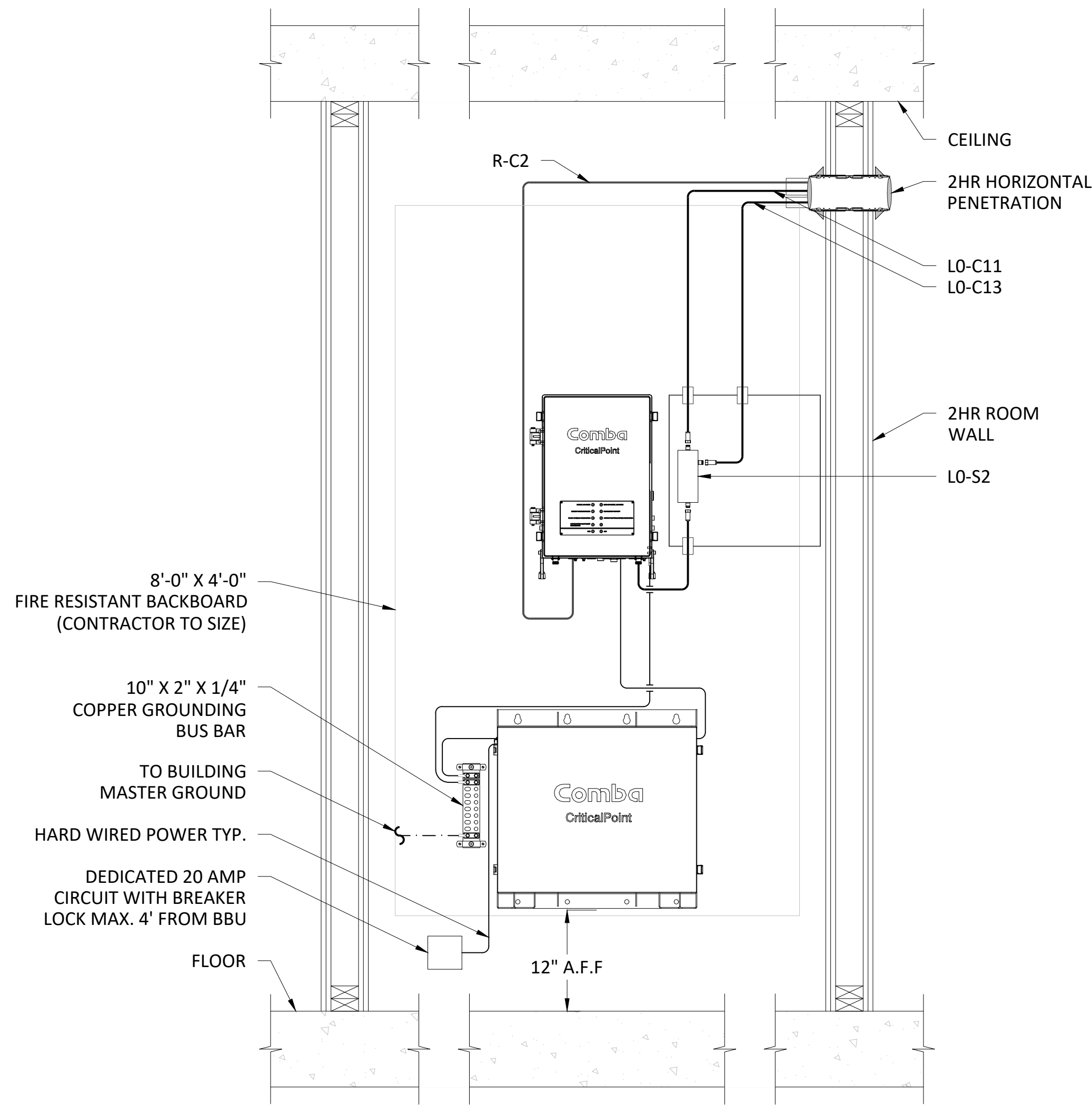


ERCES 2.4B

11/18/2025 21 OF 27 SHEETS



1. **IMPORTANT:** PROOF OF AUTHORIZATION TO OPERATE BY THE LICENSE HOLDER MUST BE OBTAINED AND STORED AT THE BDA LOCATION PRIOR TO ACTIVATION.
2. PROPER CONDITIONING OF SPACE REQUIRED FOR ALL ERCES EQUIPMENT.
3. 2" VERTICAL RISER EMT NOT SHOWN FOR CLARITY.
4. ALL ACTIVE DEVICES SHALL BE GROUNDED PURSUANT TO NFPA 780

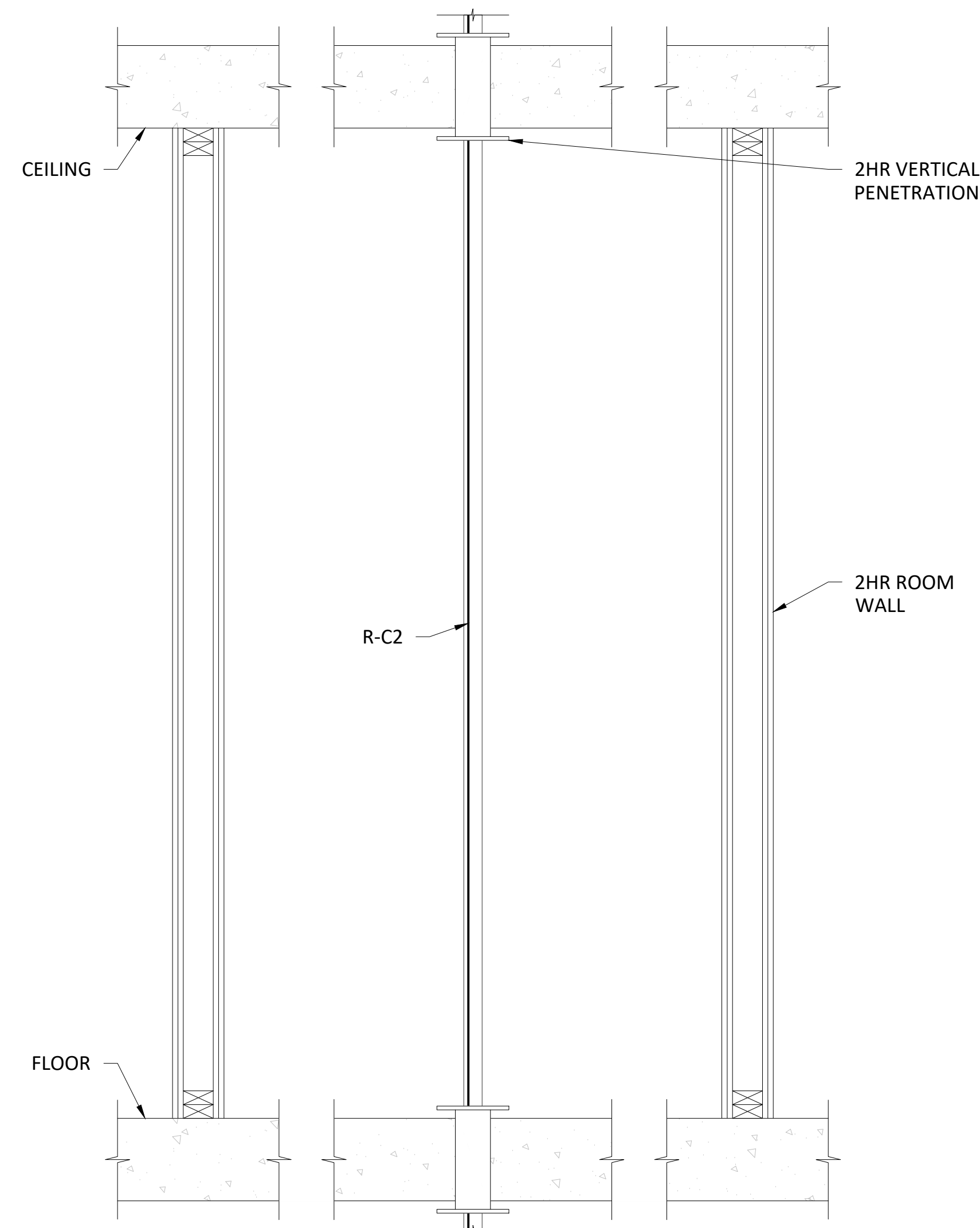
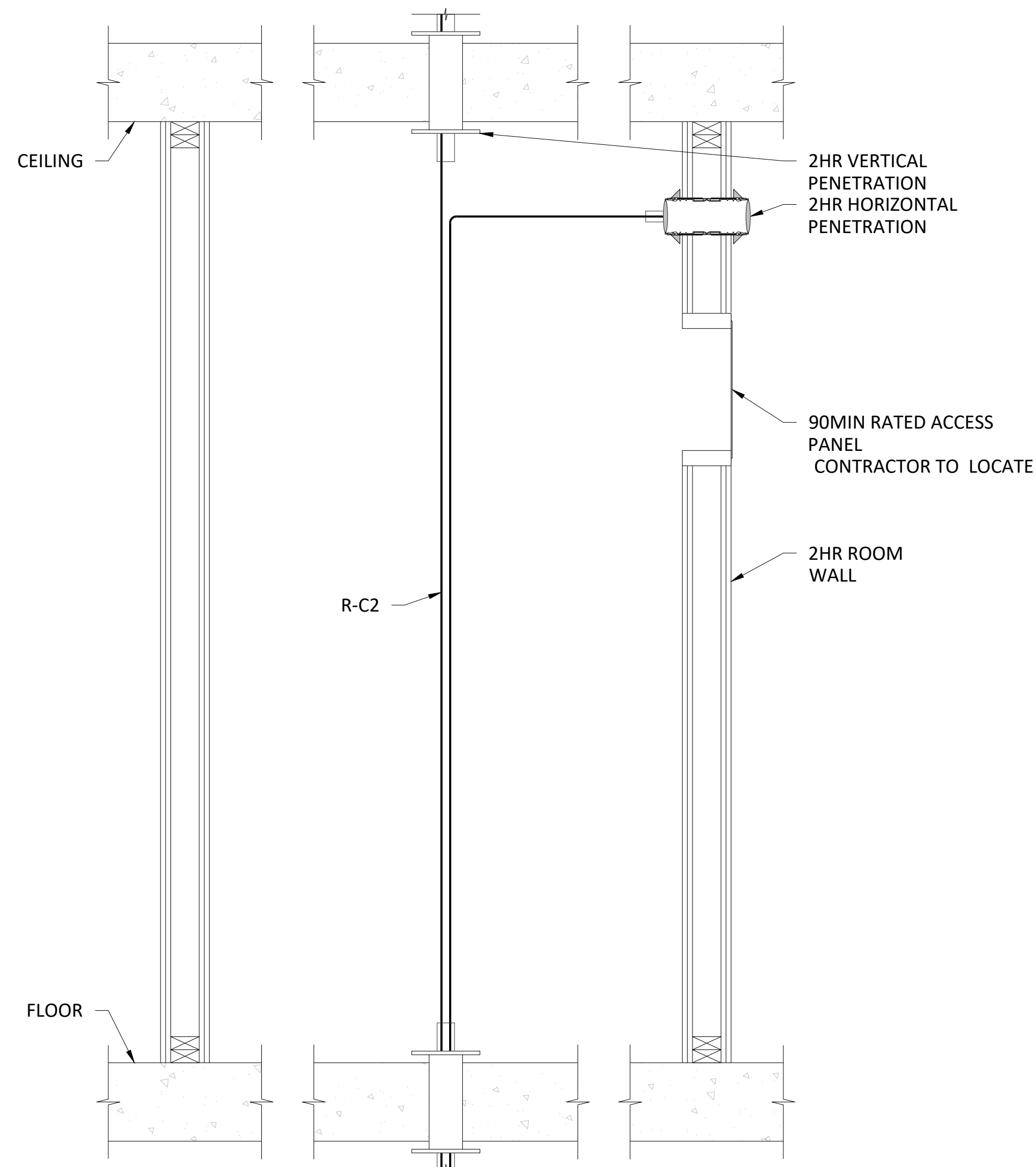


1 LEVEL 0 DAS ROOM: 2HR FIRE RATED HEAD END ROOM

2 LEVEL 0 DAS ROOM: 2HR FIRE RATED HEAD END FLOORPLAN

3	LEVEL 1 DAS SHAFT: 2HR FIRE RATED RISER
---	---

1. 2" VERTICAL RISER CONDUIT NOT SHOWN FOR CLARITY.



4 LEVEL 2 DAS SHAFT: 2HR FIRE RATED RISER


5	LEVEL 3 DAS SHAFT: 2HR FIRE RATED RISER
---	---

6

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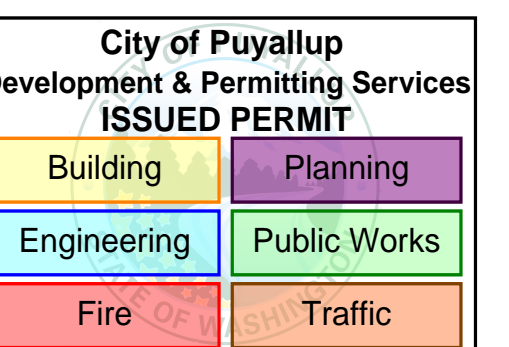
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WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE 1" = 1'-0"

DRAWN BY J.T.

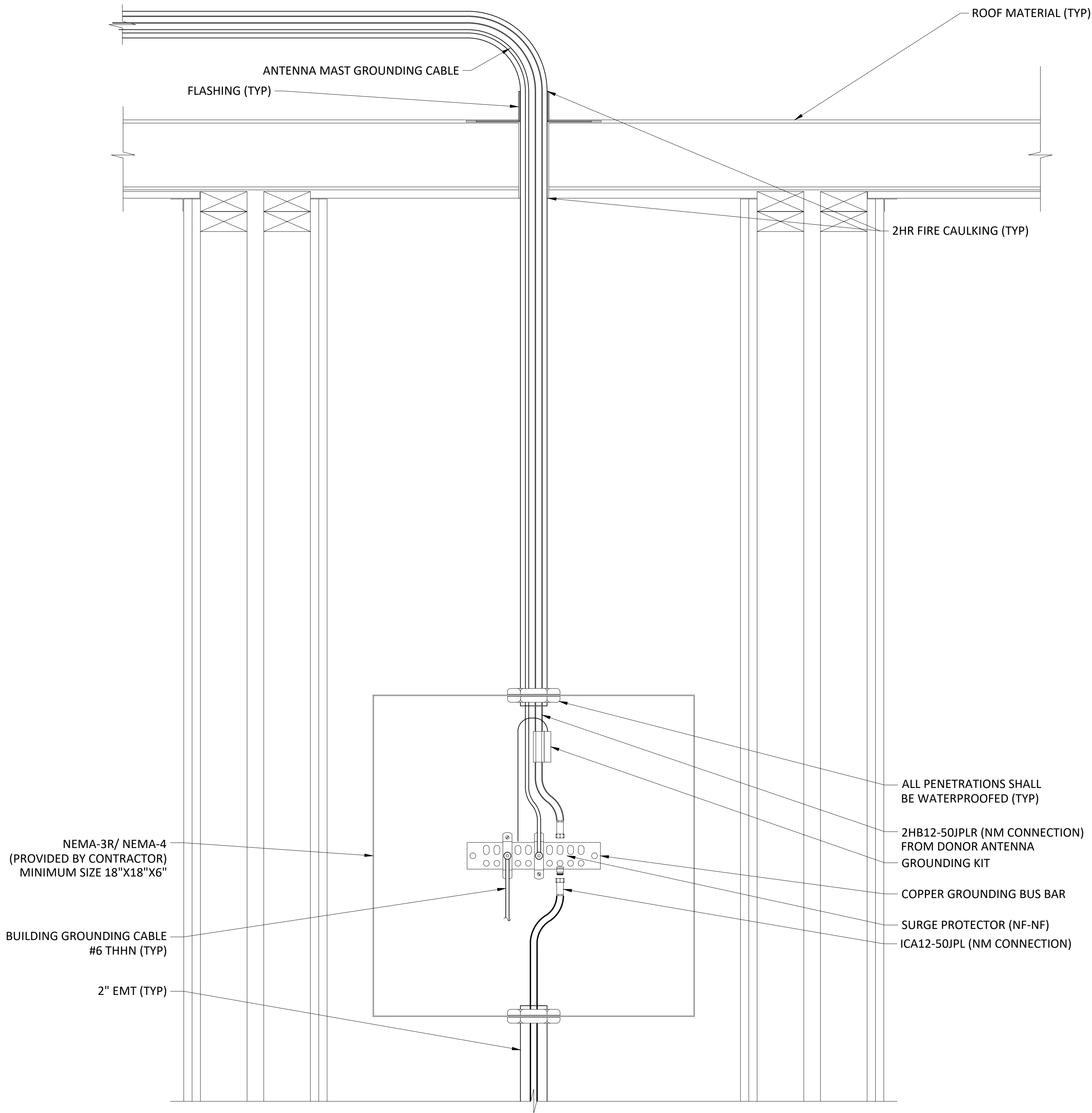
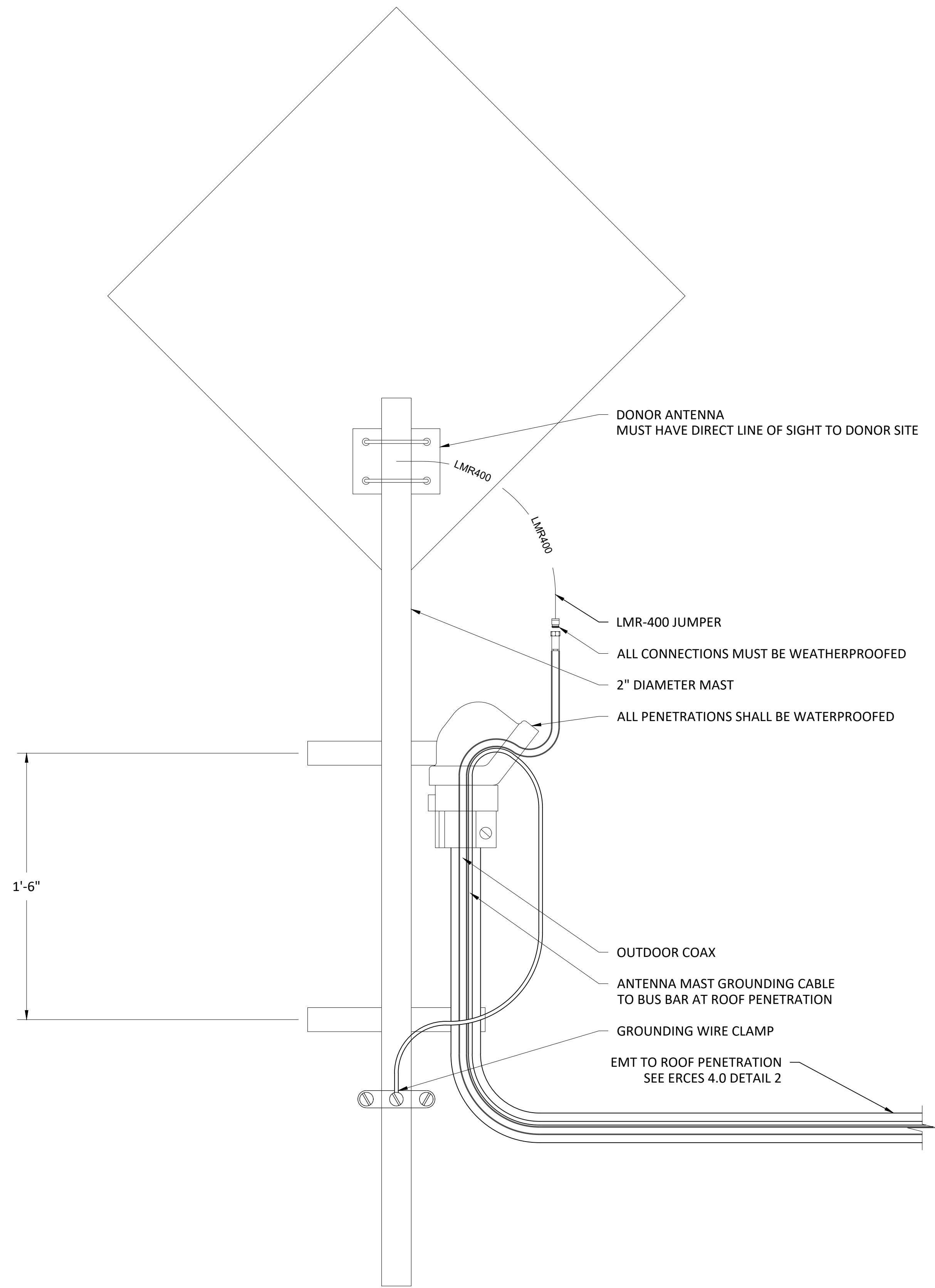
SHEET TITLE

ERCES 3.0

EQUIPMENT & RISER ROOM DETAILS

PLOT DATE

- NOTE:
- DONOR ANTENNA MUST CLEAR PARAPET OF ANY OBSTRUCTION BY 3'. NOT DOING SO WILL COMPROMISE RADIO TRANSMISSION.
 - MOUNTING HARDWARE AND MAST PROVIDED BY OTHERS.
 - TO MAINTAIN PROPER ALIGNMENT WITH THE SYSTEM DESIGNED DONOR SITE, DONOR ANTENNAS SHALL BE PERMANENTLY AFFIXED ON THE BUILDING.



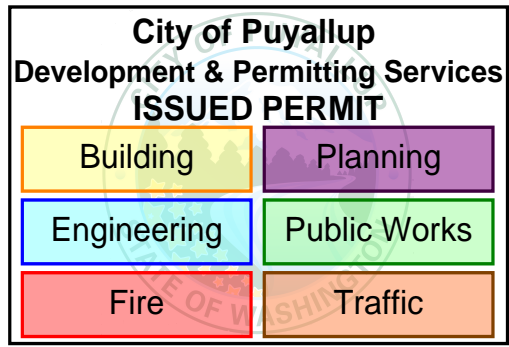
WESLEY HOMES BUILDING D
PREPARED FOR STRUCTURED COMMUNICATIONS
707 39TH AVENUE SE
PUYALLUP, WA
PIERCE COUNTY

FCC



REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25



FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE NA
DRAWN BY J.T.

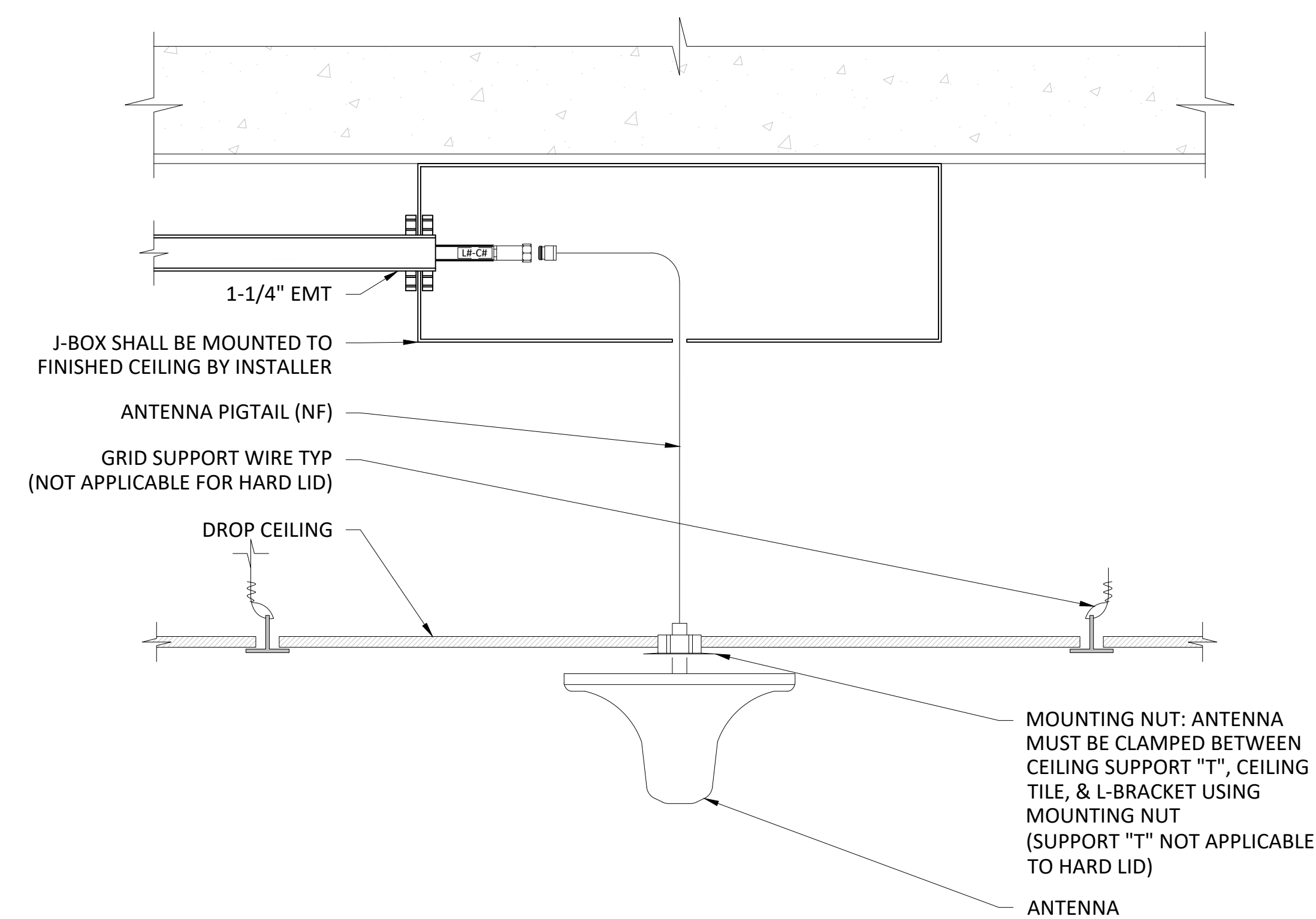
SHEET TITLE

ERCES 4.0

PLAN NAME
STANDARD DETAILS-1

PLOT DATE
11/18/2025
STANDARD DETAILS
23 OF 27 SHEETS

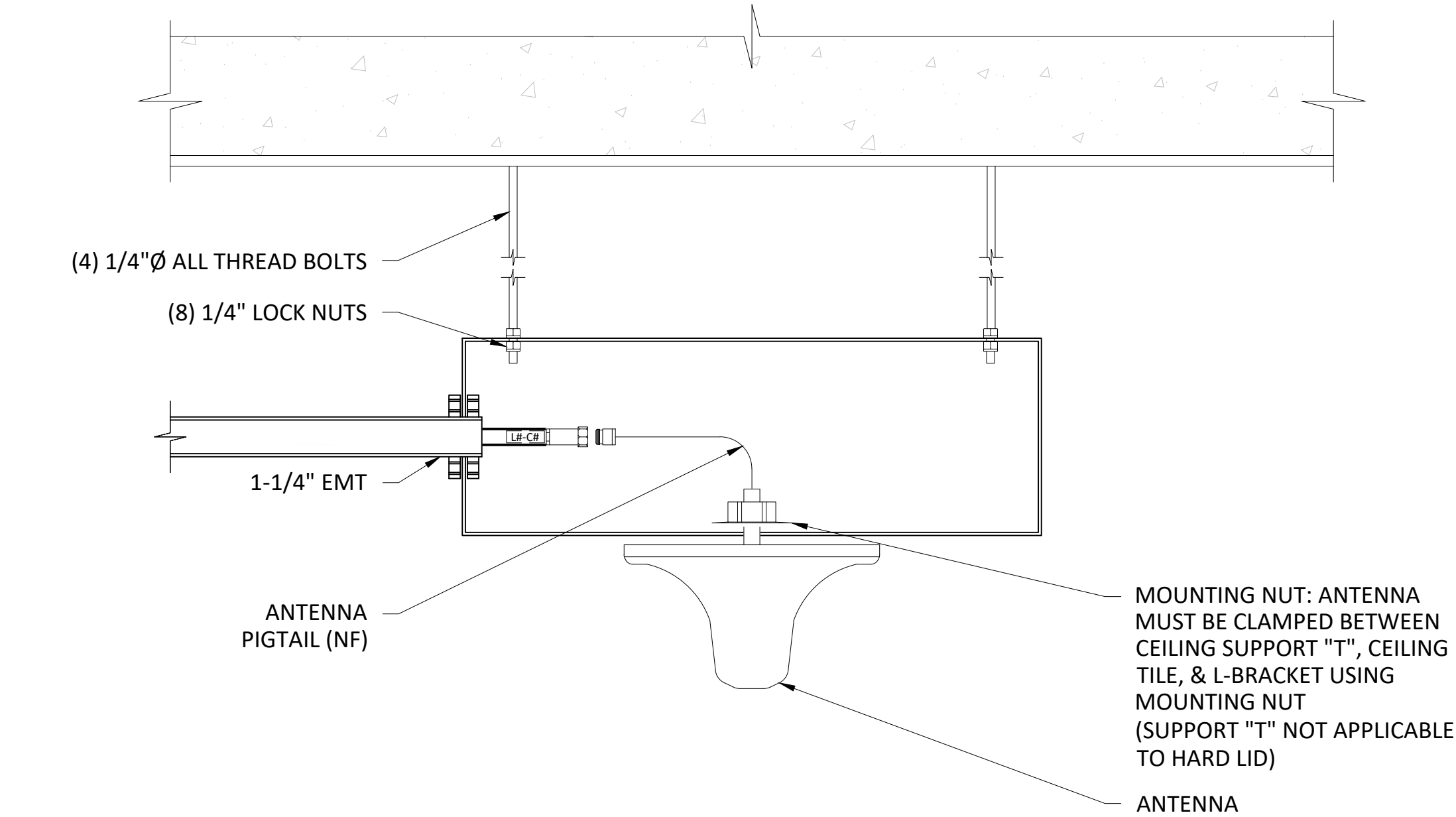
NOTE:
1. J-BOX SHOWN IS 18"X18"X6".



1	ANTENNA DROP CEILING/HARD LID MOUNT
---	-------------------------------------

NOTE:

1. THE LENGTH OF THREADED BOLTS SHOULD BE LONG ENOUGH THAT ANTENNA HAS GOOD LINE OF SIGHT TO AREA BEING COVERED.
2. J-BOX MUST BE MOUNTED LOWER THAN ANY OTHER CEILING OBSTRUCTIONS.
2. J-BOX SHOWN IS 18"X18"X6".

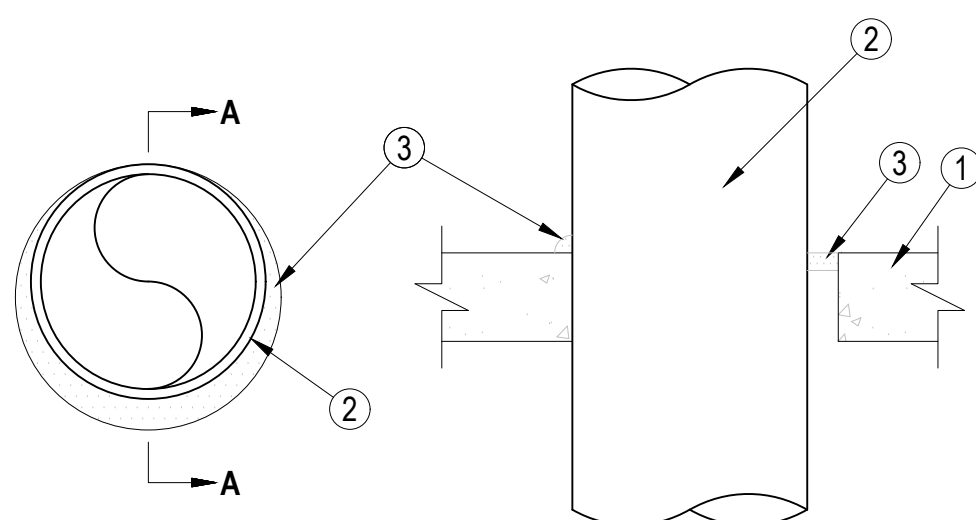


4 ANTENNA J-BOX MOUNT



SYSTEM NO. C-AJ-1291

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F RATING — 2 HR	F RATING — 2 HR
T RATING — 0 HR	FT RATING — 0 HR
	FH RATING — 2 HR
	FTH RATING — 0 HR



SECTION A-A

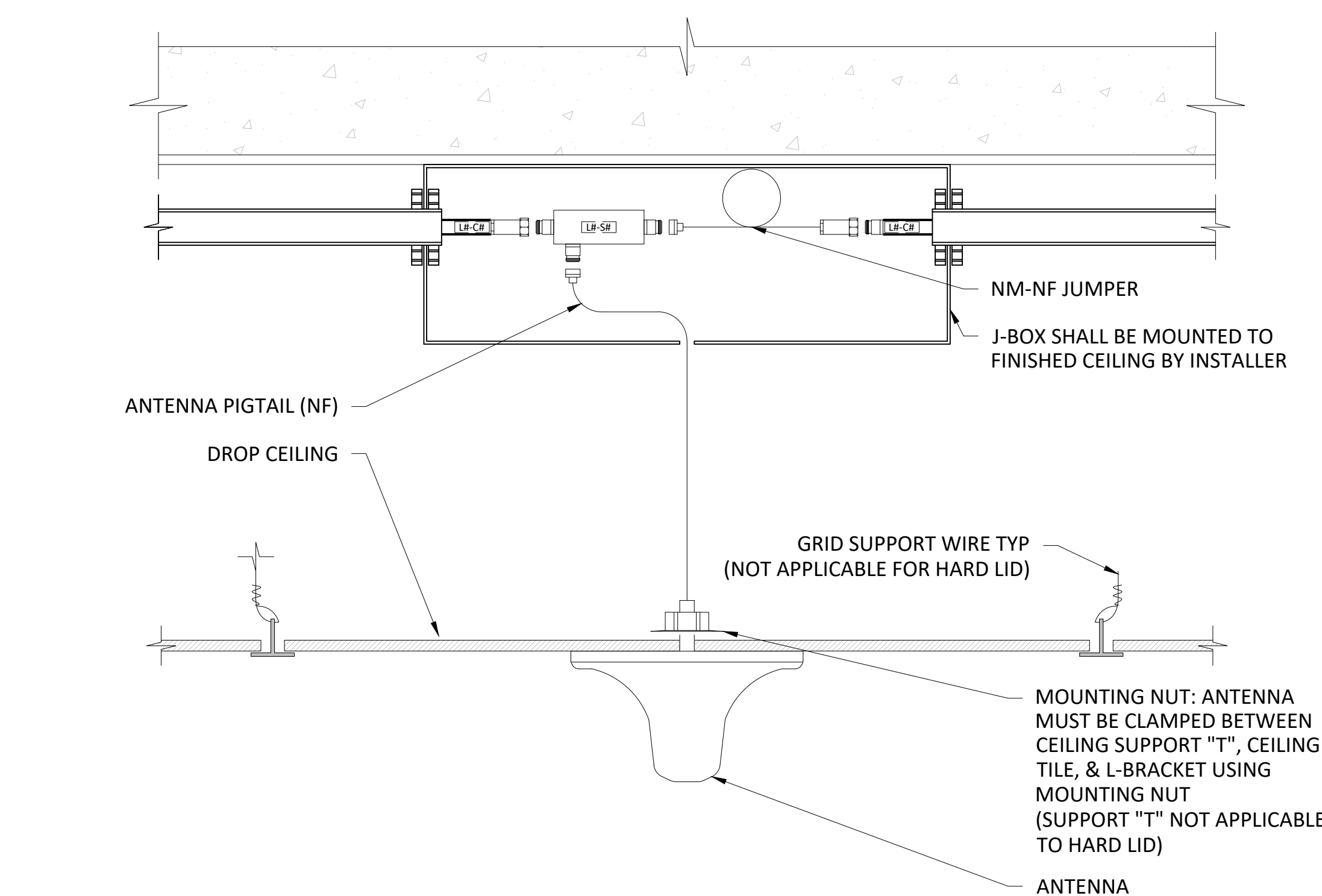
1. FLOOR OR WALL ASSEMBLY — MIN 2-1/2 IN. (64 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 30-7/8 IN. (784 MM).
- SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.
2. THROUGH-PENETRANT — ONE METALLIC PIPE OR EMT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR EMT AND PERIPHERY OF OPENING SHALL BE MIN 0 IN. TO MAX 7/8 IN. (.22 MM) PIPE OR EMT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR EMTS MAY BE USED:
- A. STEEL PIPE — NOM 3 IN. (.762 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
 - B. IRON PIPE — NOM 3 IN. (.762 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
 - C. COPPER PIPE — NOM 6 IN. (.152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
 - D. COPPER TUBING — NOM 6 IN. (.152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
 - E. EMT — NOM 6 IN. (.152 MM) DIAM (OR SMALLER) STEEL EMT.
 - F. EMT — NOM 4 IN. (.102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT).
3. FILL, VOID OR CAVITY MATERIAL* — SEALANT — MIN 1/2 IN. (13 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN PIPE AND CONCRETE, A MIN 1/4 IN. (6 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/PIPE INTERFACE ON THE TOP SURFACE OF FLOOR AND ON BOTH SURFACES OF WALL.
- HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE SEALANT OR FS-ONE MAX INTUMESCENT SEALANT

* INDICATES SUCH PRODUCTS SHALL BEAR THE UL OR CUL CERTIFICATION MARK FOR JURISDICTIONS EMPLOYING THE UL OR CUL CERTIFICATION (SUCH AS CANADA), RESPECTIVELY.

7	2HR FIRE RATED PENETRATION
---	----------------------------

NOTE:

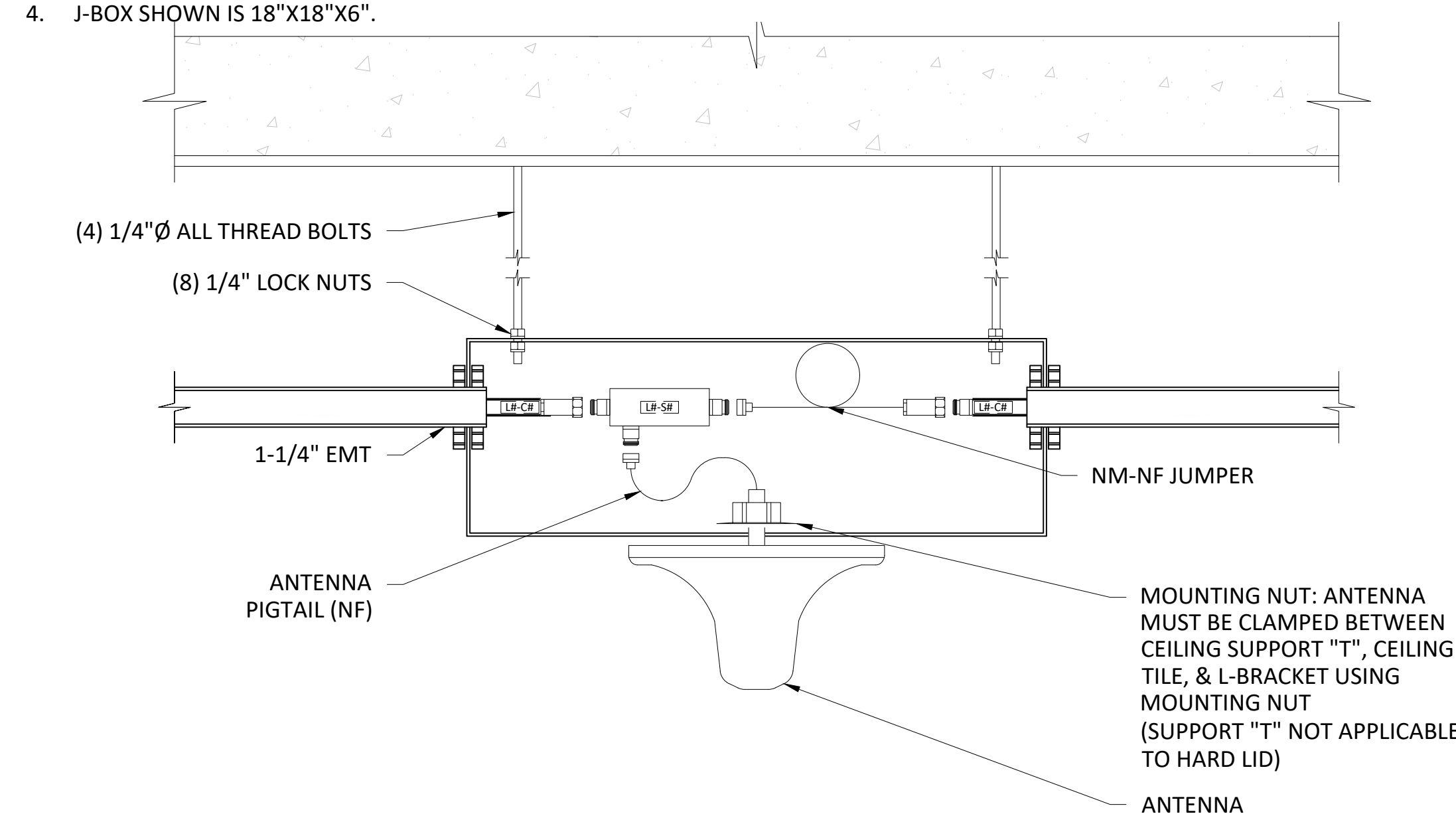
1. USE PATHWAY ARROWS ON COUPLER TO ENSURE RF DIRECTION IS CORRECT.
2. J-BOX SHOWN IS 18"X18"X6".



2 ANTENNA & COUPLER DROP CEILING/HARD LID MOUNT

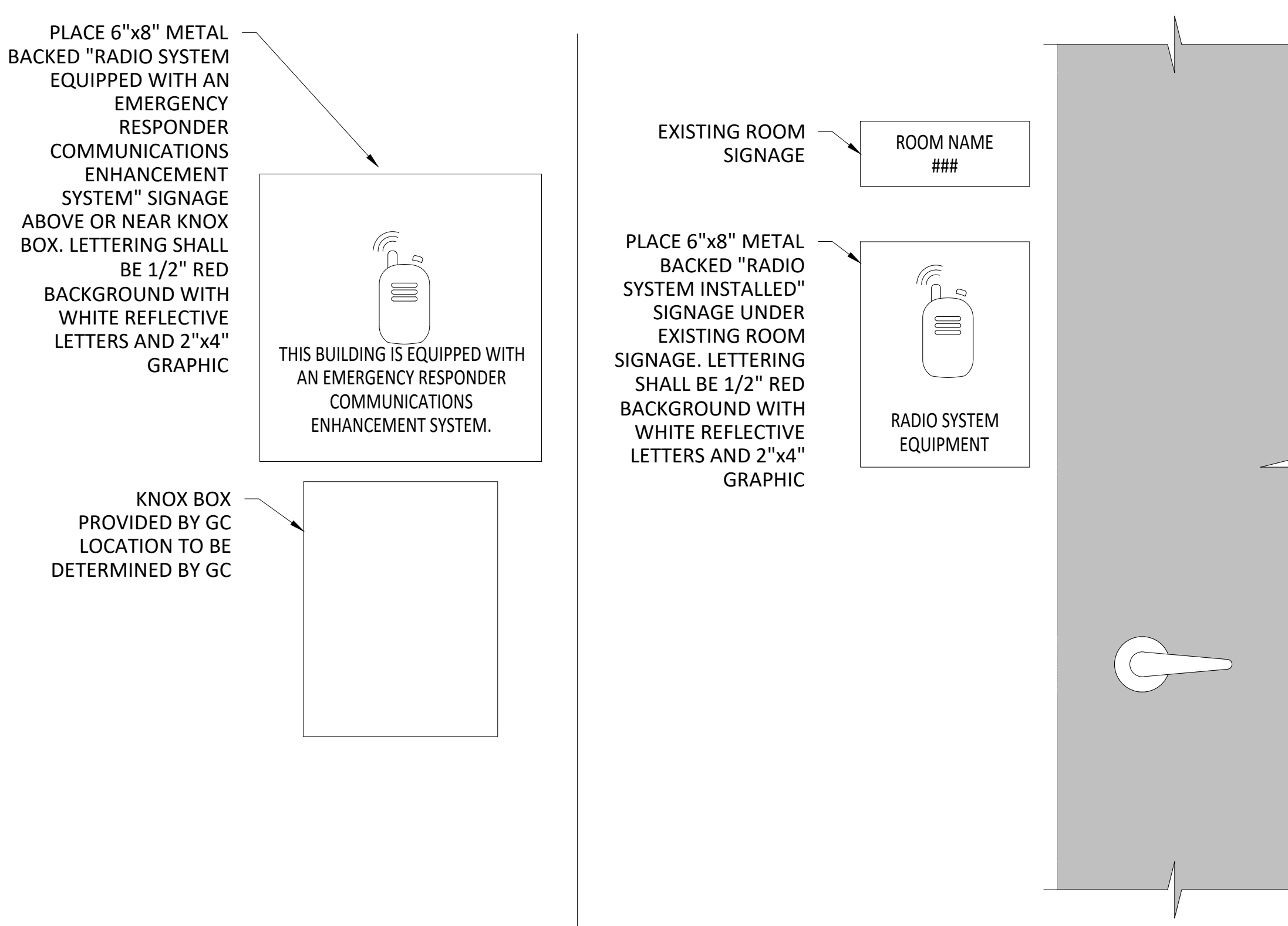
NOTE:

1. THE LENGTH OF THREADED BOLTS SHOULD BE LONG ENOUGH THAT ANTENNA HAS GOOD LINE OF SIGHT TO AREA BEING COVERED.
2. USE PATHWAY ARROWS ON COUPLER TO ENSURE RF DIRECTION IS CORRECT.
3. J-BOX MUST BE MOUNTED LOWER THAN ANY OTHER CEILING OBSTRUCTIONS.
4. J-BOX SHOWN IS 18"X18"X6".



5 ANTENNA & COUPLER J-BOX MOUNT

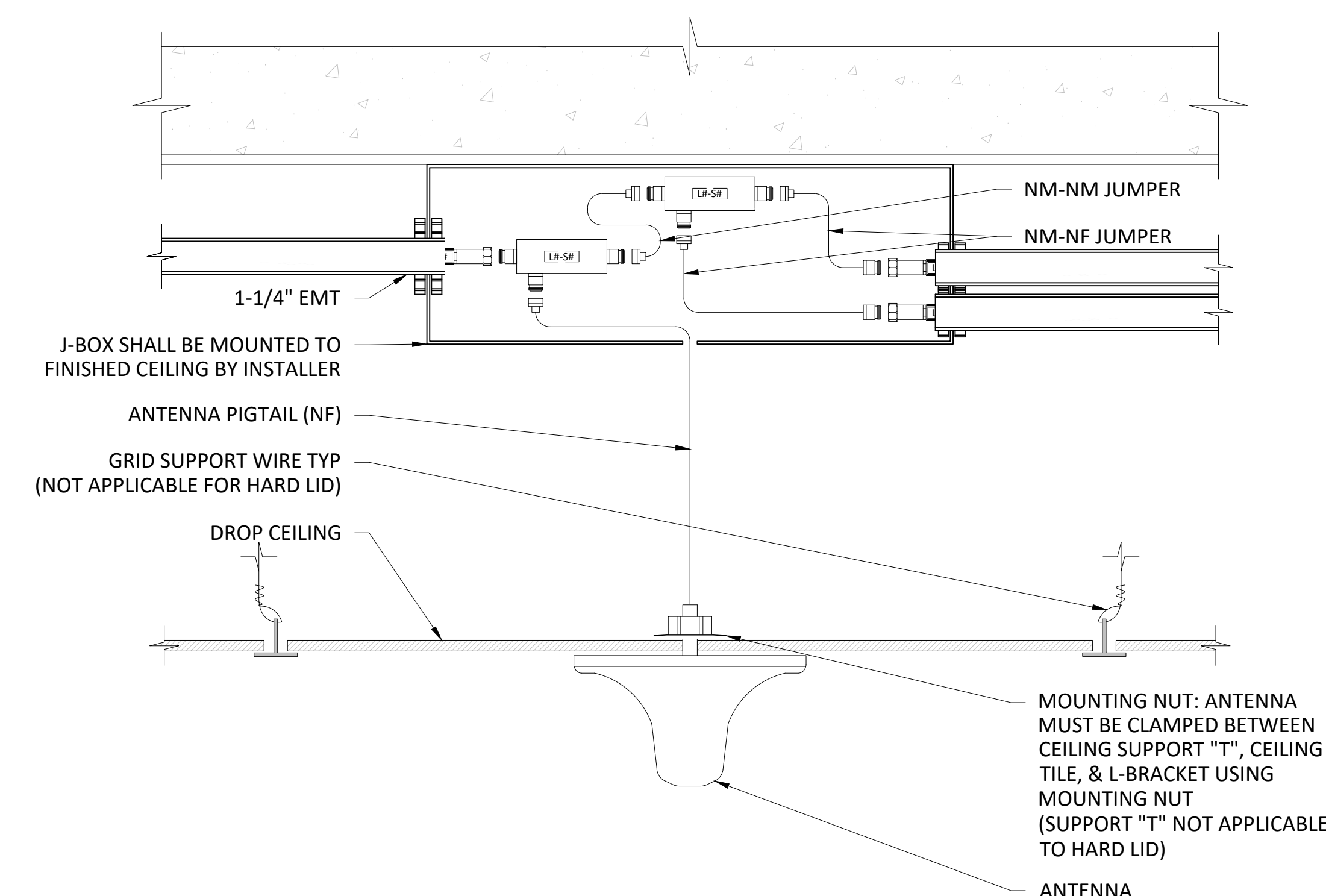
- NOTE:
1. INSTALLER MUST PROVIDE SIGNAGE INDICATING A RADIO SYSTEM (ERCES) IS INSTALLED IN ACCORDANCE WITH THE CITY OF XXX.



8	ERCES SIGNAGE	ROOM SIGNAGE
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NOTE:

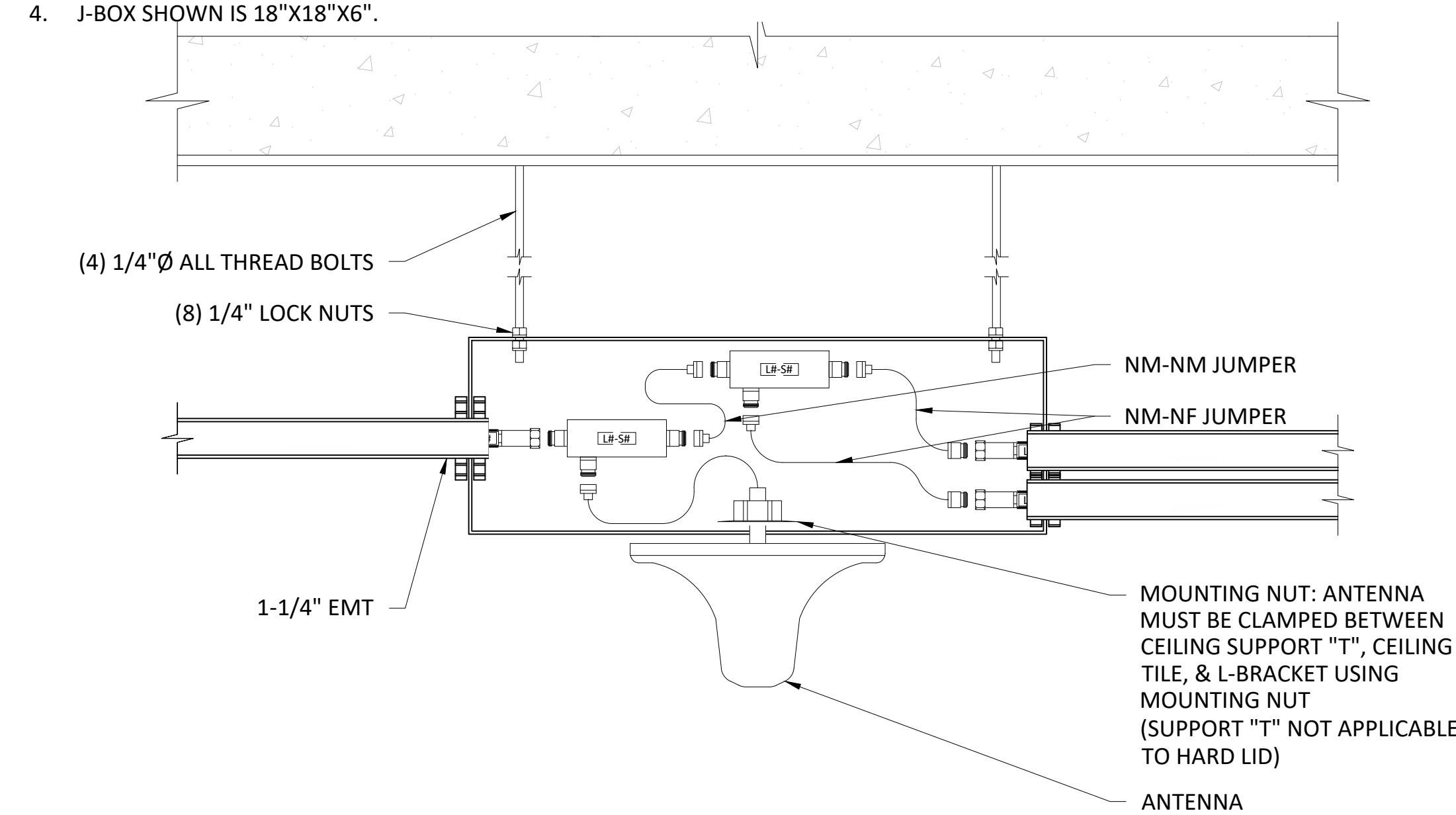
1. USE PATHWAY ARROWS ON COUPLER TO ENSURE RF DIRECTION IS CORRECT.
2. J-BOX SHOWN IS 18"X18"X6".



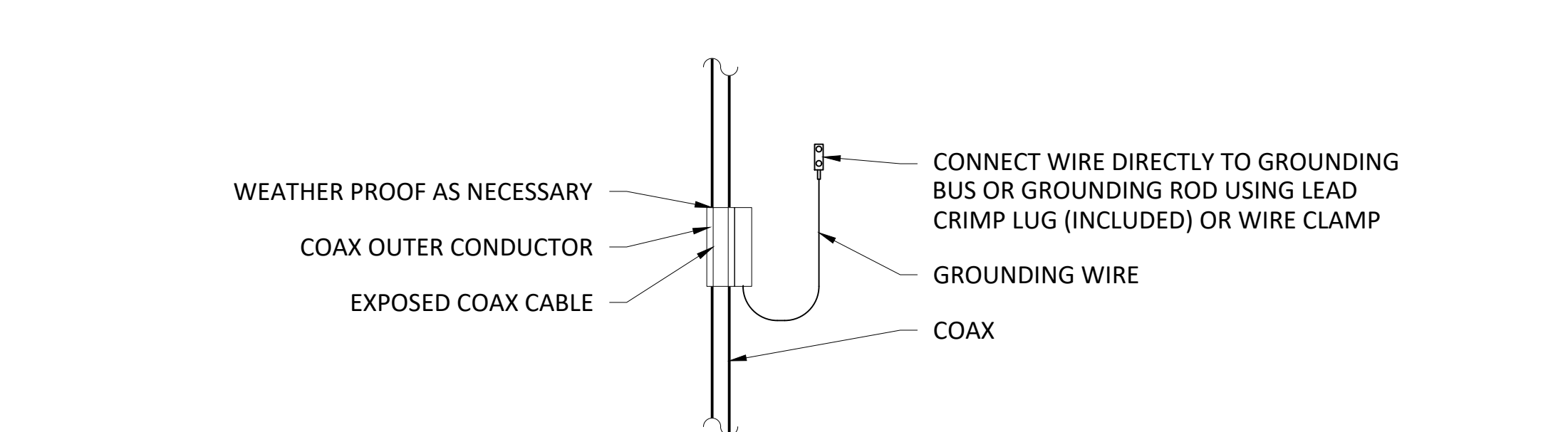
3 ANTENNA & TWO COUPLERS DROP CEILING/HARD LID MOUNT

NOTE:

1. THE LENGTH OF THREADED BOLTS SHOULD BE LONG ENOUGH THAT ANTENNA HAS GOOD LINE OF SIGHT TO AREA BEING COVERED.
2. USE PATHWAY ARROWS ON COUPLER TO ENSURE RF DIRECTION IS CORRECT.
3. J-BOX MUST BE MOUNTED LOWER THAN ANY OTHER CEILING OBSTRUCTIONS.
4. J-BOX SHOWN IS 18"x18"x6".

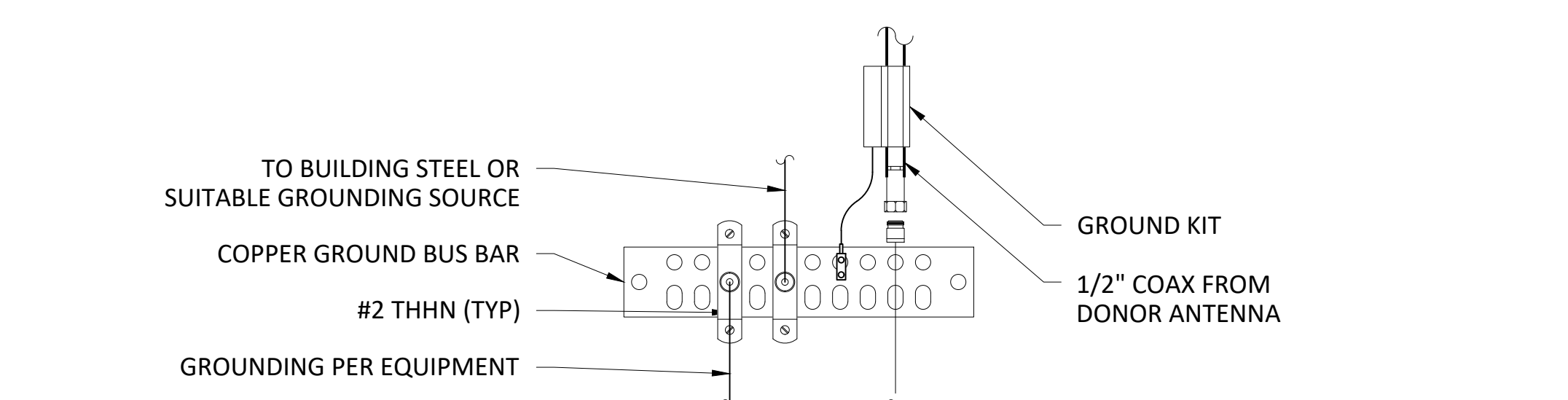


6 ANTENNA & TWO COUPLERS J-BOX MOUNT




DONOR CABLE GROUNDING

NOTE:
1. GROUND HEAD END EQUIPMENT PER MANUFACTURER'S REQUIREMENTS



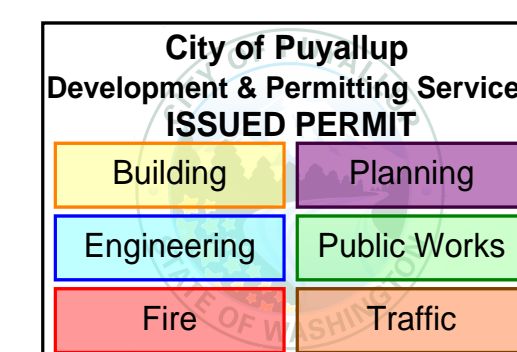
9	GROUNDING
---	-----------



FCC LIC. NO.: PG00065757
FRN: 0029286614
GRANT DATE: 03-05-20
CONNOLLY, JULIA


REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25



FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE	NA
DRAWN BY	J.T.
SHEET TITLE	

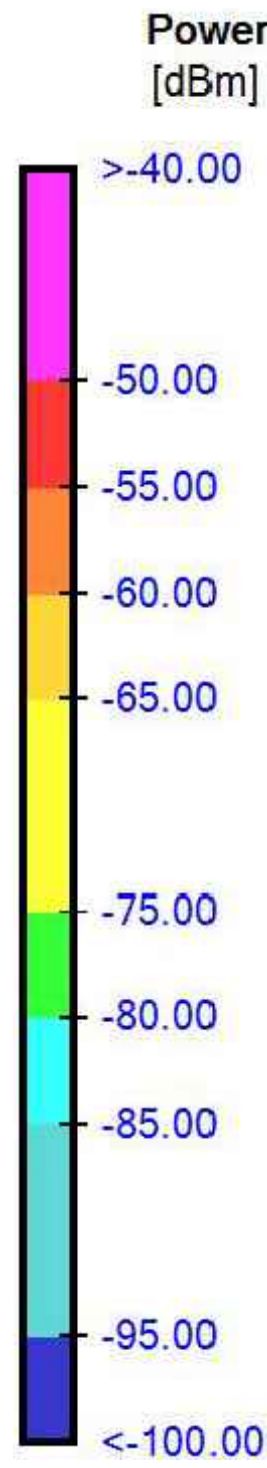
ERCES 4.1

PLAN NAME
STANDARD DETAILS-2

PLOT DATE
11/18/2025

PROPAGATION

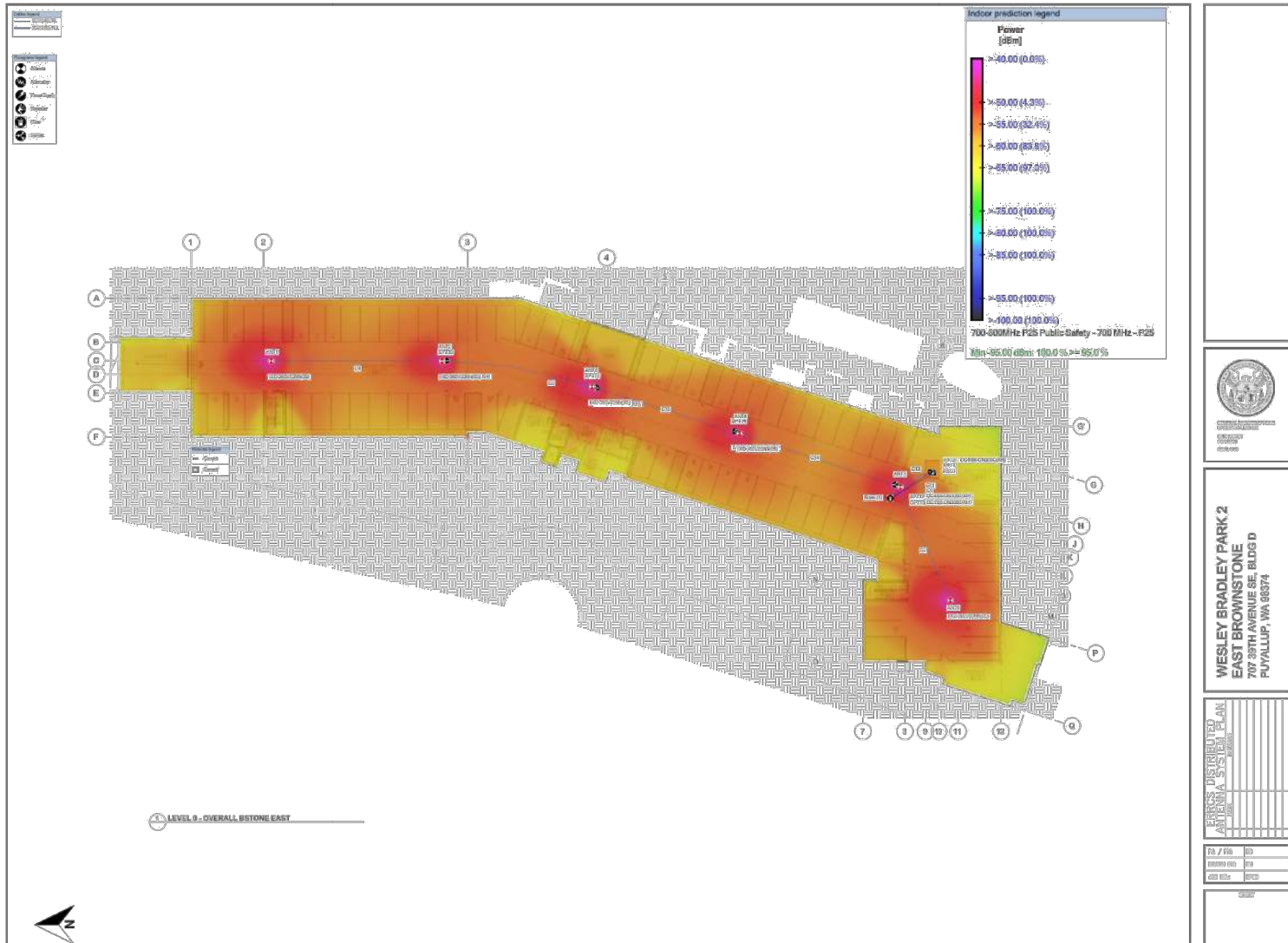
INDOOR PREDICTION LEGEND



1. SYSTEM MEETS A MIN. OF -95 dBm @ 95% ON ALL FLOORS.
2. SYSTEM MEETS A MIN. OF -95 dBm IN ALL CRITICAL SPACES.
3. SYSTEM WAS DESIGNED TO MEET A MIN. DAQ OF 3.4.

700-800MHz P25 Public Safety - 700 MHz - P25 / Signal strength

Bradley Park Brownstone: Floor 0

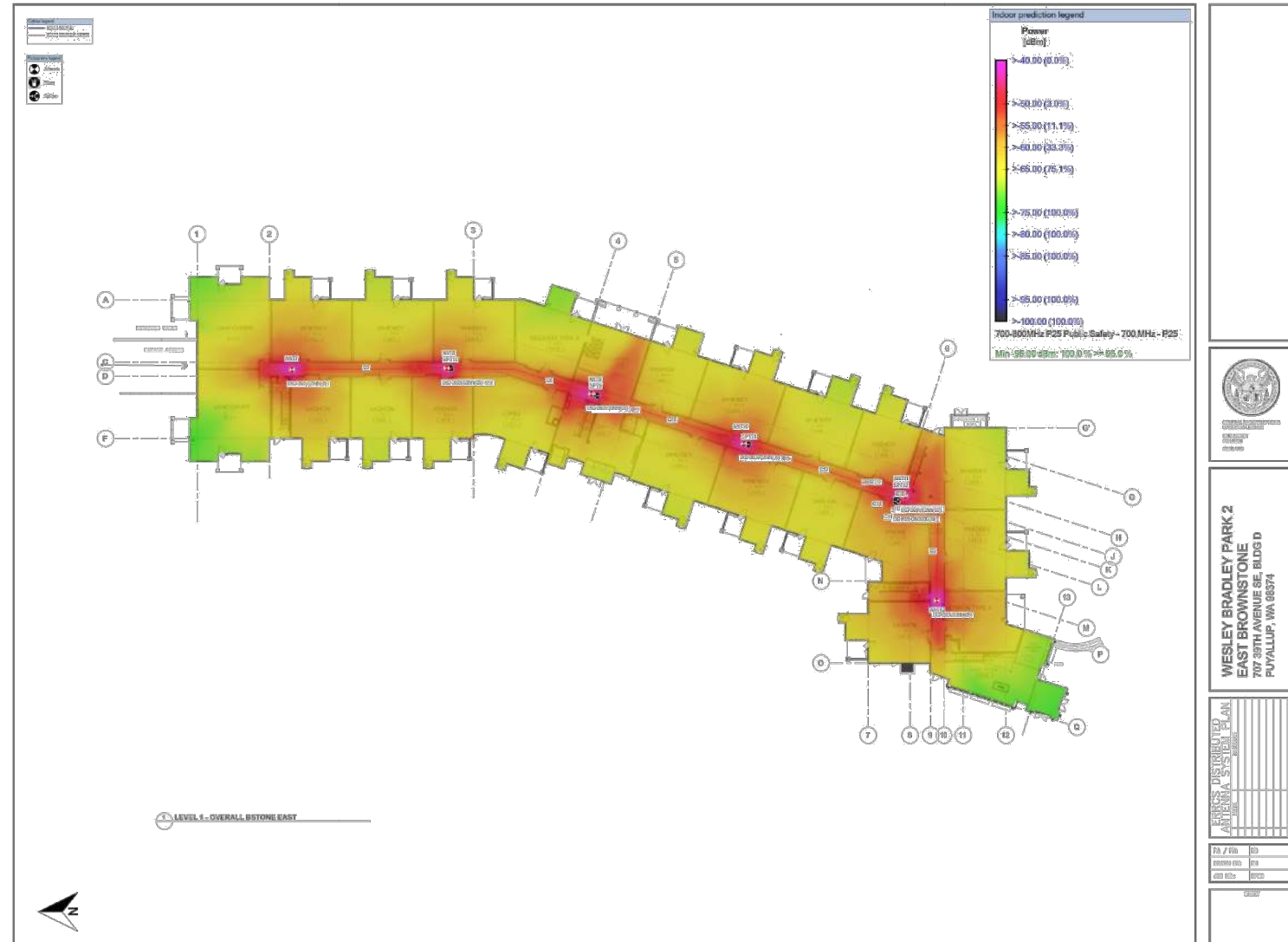


Created on 11/1/2025

Page 1 / 6

700-800MHz P25 Public Safety - 700 MHz - P25 / Signal strength

Bradley Park Brownstone: Floor 1

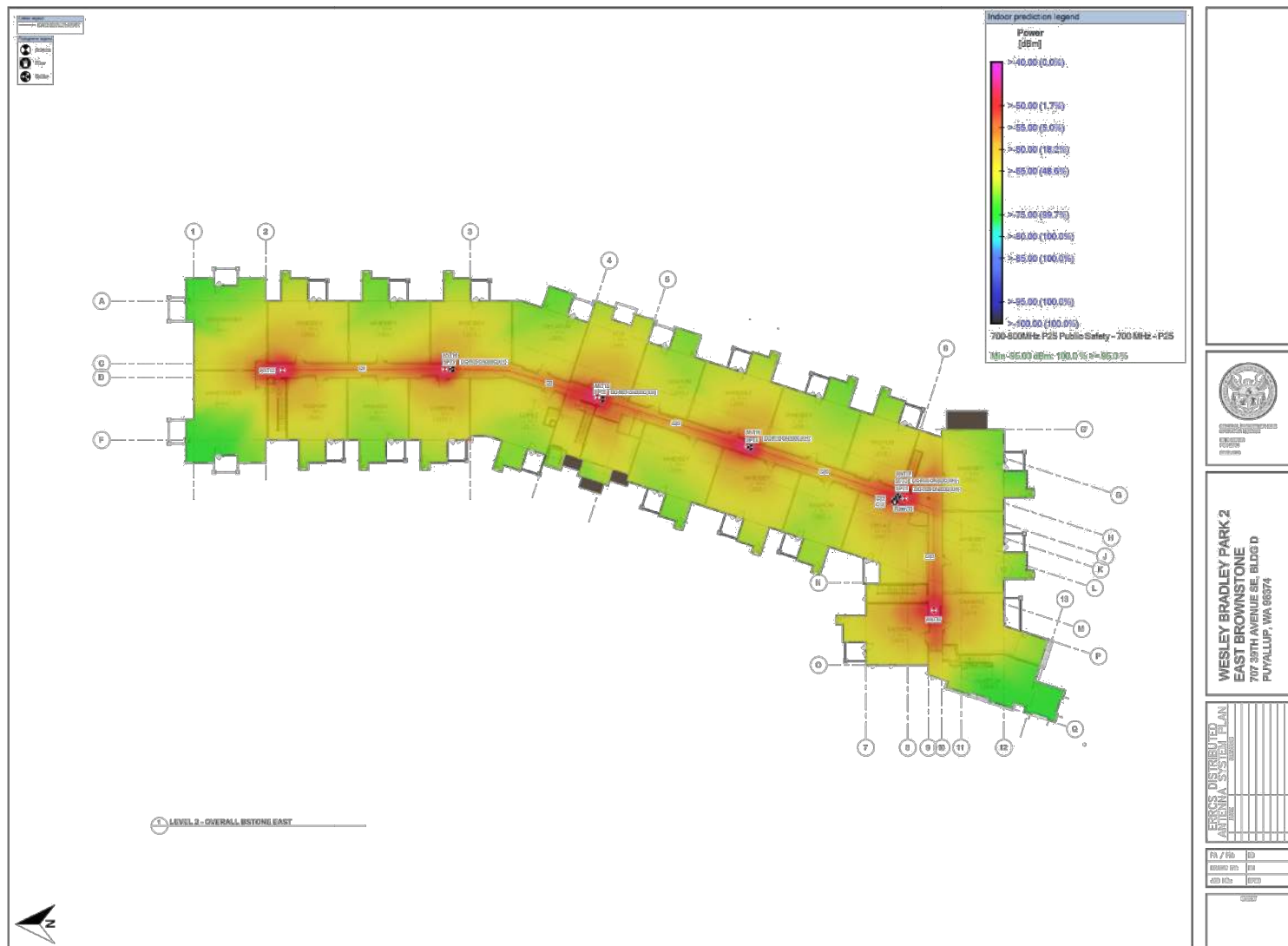


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Page 2 / 6

700-800MHz P25 Public Safety - 700 MHz - P25 / Signal strength

Bradley Park Brownstone: Floor 2

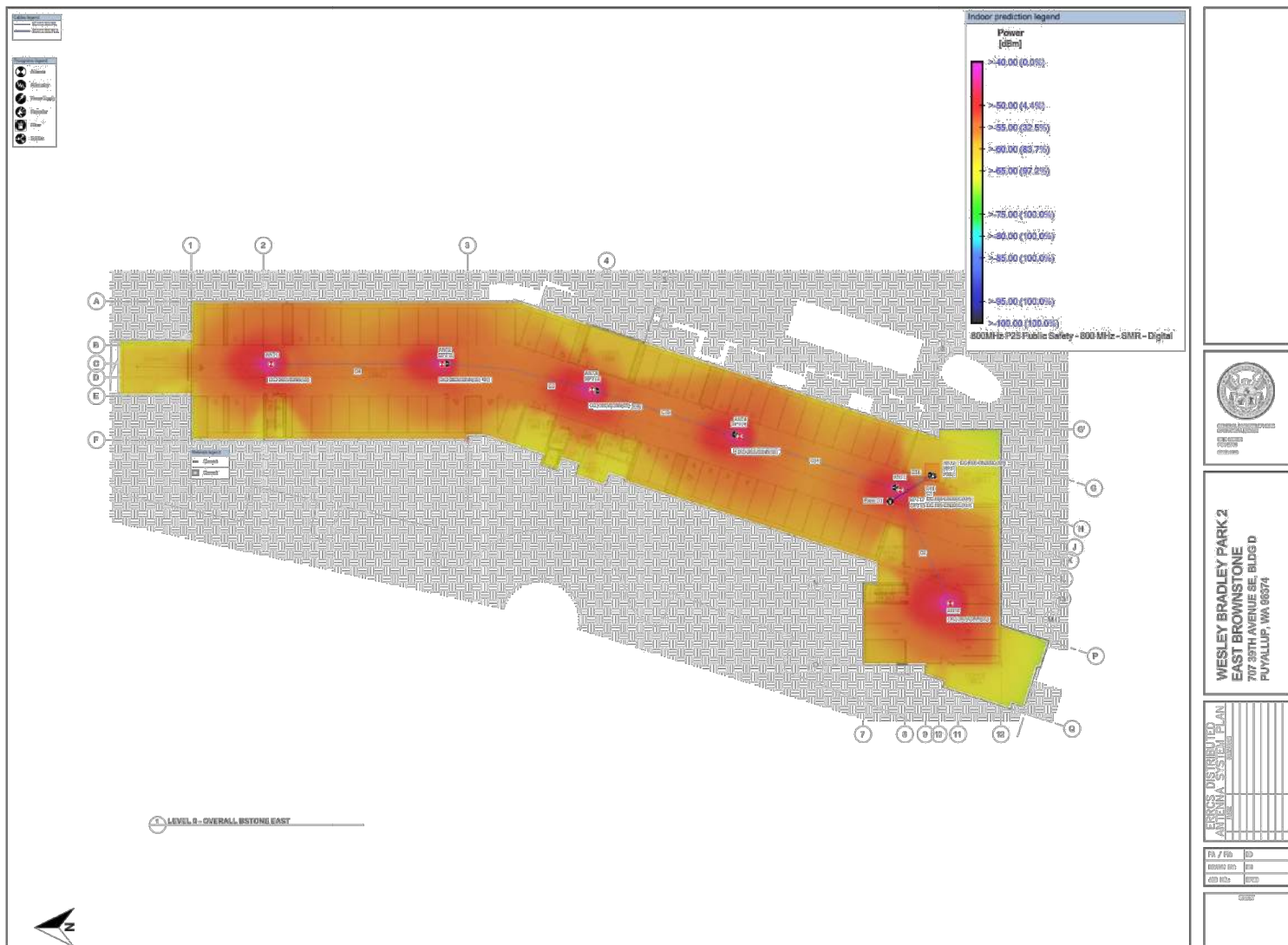


Created on 11/1/2025

Page 3 / 6

800MHz P25 Public Safety - 800 MHz - SMR - Digital / Signal strength

Bradley Park Brownstone: Floor 0

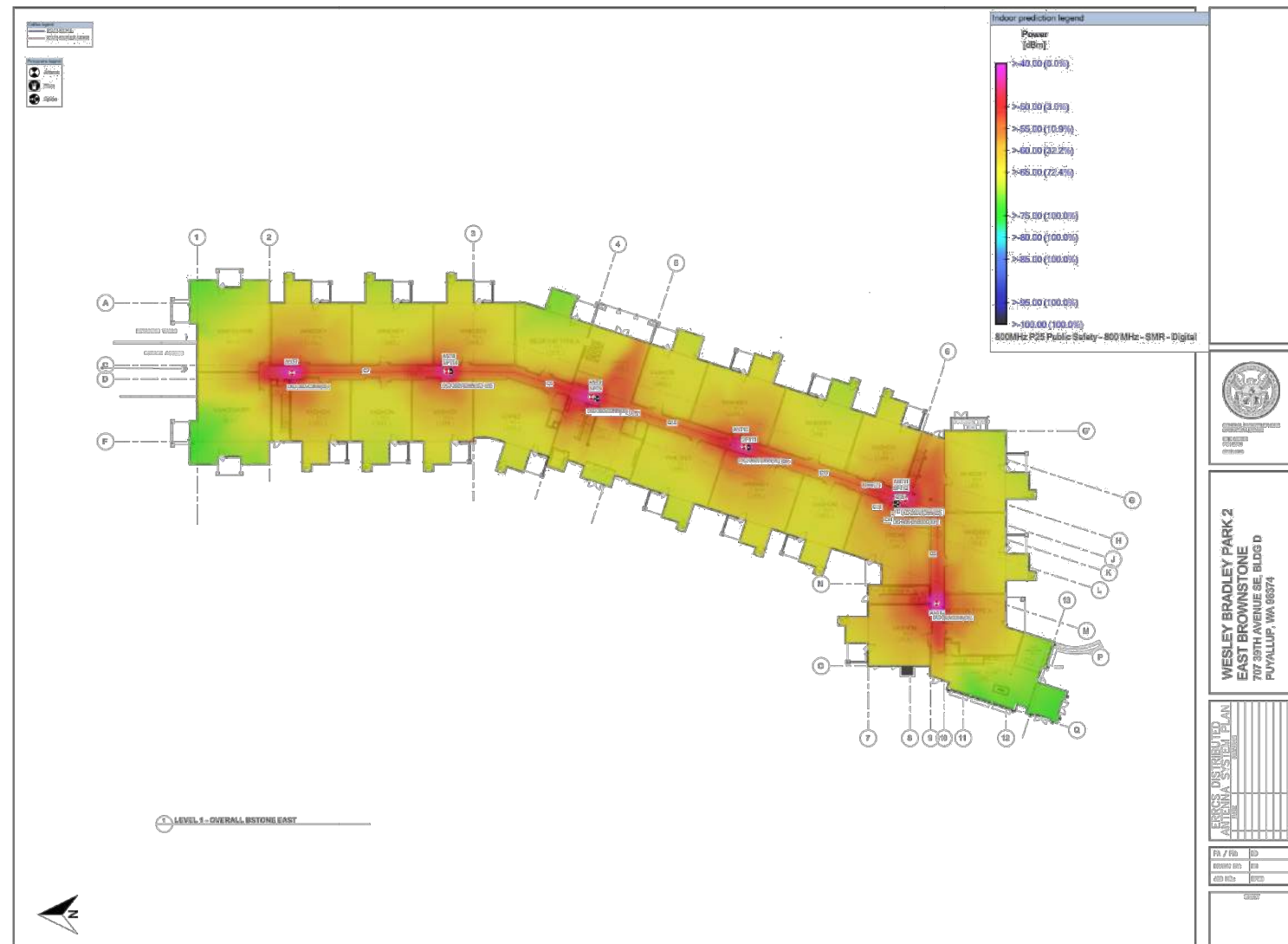


Created on 11/1/2025

Page 4 / 6

800MHz P25 Public Safety - 800 MHz - SMR - Digital / Signal strength

Bradley Park Brownstone: Floor 1

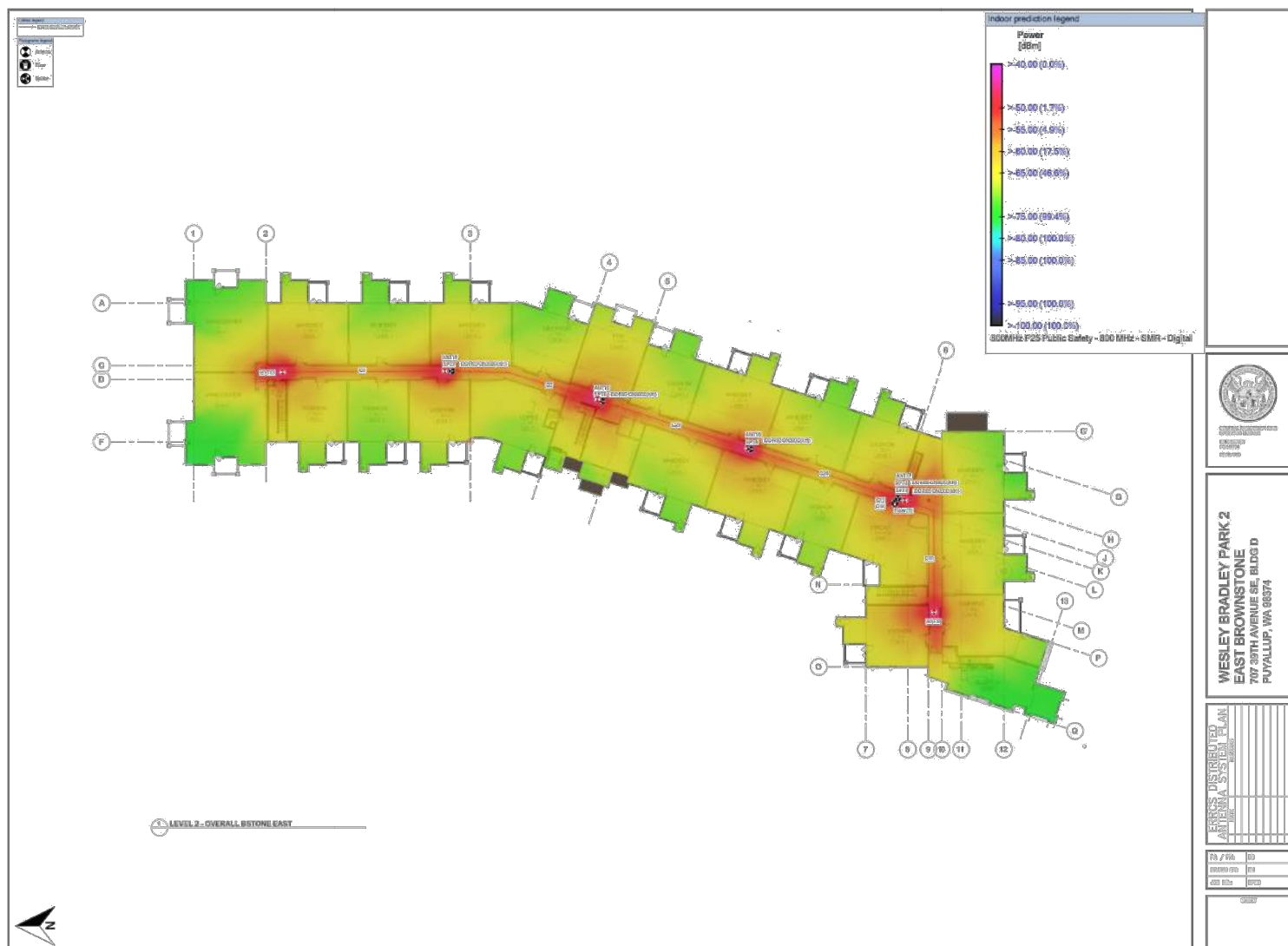


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Page 5 / 6

800MHz P25 Public Safety - 800 MHz - SMR - Digital / Signal strength

Bradley Park Brownstone: Floor 2



Created on 11/1/2025

Page 6 / 6



WESLEY HOMES BUILDING D
PREPARED FOR STRUCTURED COMMUNICATIONS
707 39TH AVENUE SE
PUYALLUP, WA
PIERCE COUNTY

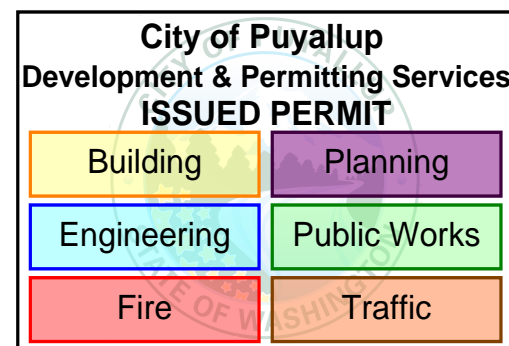
FCC



FCC LIC. NO.: PG00085757
FRN: 0029386614
GRANT DATE: 03-05-20
CONNOLLY, JULIA

REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25



FACILITY
WESLEY HOMES BUILDING D EMERGENCY
RESPONDER COMMUNICATION
ENHANCEMENT SYSTEM (ERCES)

SCALE NA
DRAWN BY J.T.

SHEET TITLE

ERCES 5.0

PLAN NAME
PROPAGATION

PLOT DATE

11/18/2025

25 OF 27 SHEETS

ANTENNA ERP REPORT									
Antenna ERP report									
Antenna ID	Ant. Model	System ID	Antenna gain *	Total loss/gain	Antenna ERP (dBm)				
			(dBd)	(dB)	Power/channel	Composite power		RSCP/RSRP	
ANT1	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	8.04	-6.71	1.74		-	
ANT1	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.47	-6.08	2.37		-	
ANT1	IXD-360V03NN(05)	All systems	-	-	-	5.08		-	
ANT2	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	6.41	-8.34	0.11		-	
ANT2	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	5.96	-7.59	0.86		-	
ANT2	IXD-360V03NN(05)	All systems	-	-	-	3.51		-	
ANT3	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	7.43	-7.32	1.13		-	
ANT3	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.08	-6.47	1.98		-	
ANT3	IXD-360V03NN(05)	All systems	-	-	-	4.59		-	
ANT4	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	6.66	-8.09	0.36		-	
ANT4	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	6.4	-7.15	1.31		-	
ANT4	IXD-360V03NN(05)	All systems	-	-	-	3.87		-	
ANT5	IXD-360V03NN(05)	All systems	-	-	-	3.33		-	
ANT5	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	6.06	-8.69	-0.23		-	
ANT5	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	5.92	-7.63	0.82		-	
ANT6	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	8.17	-6.58	1.87		-	
ANT6	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.94	-5.61	2.84		-	
ANT6	IXD-360V03NN(05)	All systems	-	-	-	5.39		-	
ANT7	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	8.84	-5.91	2.54		-	
ANT7	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	8.22	-5.33	3.12		-	
ANT7	IXD-360V03NN(05)	All systems	-	-	-	5.85		-	
ANT8	IXD-360V03NN(05)	All systems	-	-	-	4.26		-	
ANT8	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	7.19	-7.56	0.89		-	
ANT8	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	6.68	-6.87	1.58		-	
ANT9	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.92	-5.63	2.82		-	
ANT9	IXD-360V03NN(05)	All systems	-	-	-	5.45		-	
ANT9	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	8.32	-6.43	2.02		-	
ANT10	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	7.84	-6.91	1.54		-	
ANT10	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.55	-6	2.46		-	
ANT10	IXD-360V03NN(05)	All systems	-	-	-	5.03		-	
ANT11	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	7.76	-6.99	1.47		-	
ANT11	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	7.59	-5.96	2.49		-	
ANT11	IXD-360V03NN(05)	All systems	-	-	-	5.02		-	
ANT12	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	9.7	-5.05	3.4		-	
ANT12	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	9.43	-4.12	4.33		-	
ANT12	IXD-360V03NN(05)	All systems	-	-	-	6.9		-	
ANT13	IXD-360V03NN(05)	All systems	-	-	-	3.04		-	
ANT13	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	6.05	-8.7	-0.25		-	
ANT13	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	5.4	-8.15	0.3		-	
ANT14	IXD-360V03NN(05)	All systems	-	-	-	1.57		-	
ANT14	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	4.51	-10.24	-1.79		-	
ANT14	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	3.99	-9.56	-1.11		-	
ANT15	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	5.68	-9.07	-0.62		-	
ANT15	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	5.27	-8.28	0.17		-	
ANT15	IXD-360V03NN(05)	All systems	-	-	-	2.8		-	
ANT16	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	5.16	-9.59	-1.13		-	
ANT16	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	4.86	-8.69	-0.24		-	
ANT16	IXD-360V03NN(05)	All systems	-	-	-	2.35		-	
ANT17	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	4.83	-8.72	-0.27		-	
ANT17	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	5.02	-9.73	-1.28		-	
ANT17	IXD-360V03NN(05)	All systems	-	-	-	2.26		-	
ANT18	IXD-360V03NN(05)	800 MHz - SMR - Digital - Sector N/A	0.45	6.61	-6.94	1.52		-	
ANT18	IXD-360V03NN(05)	700 MHz - P25 - Sector N/A	0.45	6.91	-7.84	0.61		-	
ANT18	IXD-360V03NN(05)	All systems	-	-	-	4.09		-	
Antenna ERP Statistics (Power / Channel)									
System ID		Average	Std. dev.	Minimum (dBm)		Maximum (dBm)			
		(dBm)	(dB)	Antenna ID	ERP	Antenna ID	ERP		
700 MHz - P25 - Sector N/A		-7.76	1.41	ANT14	-10.24	ANT12	-5.05		
800 MHz - SMR - Digital - Sector N/A		-6.93	1.42	ANT14	-9.56	ANT12	-4.12		
System legend									
700-800MHz P25 Public Safety / P25 / 700 MHz / Phase 1 / Nb. of channels: 7 / Nb. of sources: 1									
800MHz P25 Public Safety / Digital / 800 MHz - SMR / PS - NPSPAC / Nb. of channels: 7 / Nb. of sources: 1									

STRUCTURED COMMUNICATIONS

P.O. BOX 1368

SNOHOMISH, WA 98291

425.321.5343

WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE

PUYALLUP, WA

PIERCE COUNTY

FCC

FEDERAL COMMUNICATIONS COMMISSION

USA

FCC LIC. NO.: PG00085757

FRN: 0029286614

GRANT DATE: 03-05-20

CONNOLLY, JULIA

REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25

City of Puyallup

Development & Permitting Services

ISSUED PERMIT

Building

Planning

Engineering

Public Works

Fire

Traffic

FACILITY

WESLEY HOMES BUILDING D EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES)

SCALE

NA

DRAWN BY

J.T.

SHEET TITLE

ERCES 5.1

PLAN NAME

ANTENNA ERP REPORT

PLOT DATE

11/18/2025

26

OF 27 SHEETS

ERRCS UL Link Calculations

UL Frequency:

802.13125

MHz

Distance To Site:

0.19

Miles

Path Loss To Site:

80.26

dB

BDA UL Rated P Out:

24

dBm

Qty Channels:

7

Max P Out/Channel:

15.55

dBm

Test Radio Pwr Out

34.77

dBm

Distance - Test Radio To Near Antenna

5

Feet

Distance - Test Radio To Far Antenna

70

Feet

Maximum Signal Allowed At Site

-95

dBm

DAS Loss Antenna To BDA - dB

Free Space Path Loss Radio To Antenna - dB

Power In To BDA - dBm

BDA Gain - dB

BDA Power Out - dBm

Feed Line Loss To Donor Ant - dB

Donor Antenna Gain dBd

Donor Ant ERP - dBm

UL RSSI At Site - dBM

BDA Compression Level - dB

UL Attenuator Required ?

Minimum Attenuator Value - dB

Near Ant =

Ant12

17.00

34.21

-16.44

50

15.55

22.00

13.85

7.40

-72.86

18.01

YES

22

Far Ant =

Ant14

22.00

57.13

-44.36

50

5.64

22.00

13.85

-2.51

-82.77

0.00

Shaded cells are for user entry. DAS loss antenna to BDA taken from iBwave Design. Feed line loss to donor antenna from iBwave Design. After entering basic information in left panel and shaded cells above (that call for entry), this spreadsheet calculates all path losses, signal level to host radio site, attenuation between uplink amplifier and duplexer (if required).

ERRCS UL Link Calculations

UL Frequency:

808.60000

MHz

Distance To Site:

0.19

Miles

Path Loss To Site:

80.33

dB

BDA UL Rated P Out:

24

dBm

Qty Channels:

7

Max P Out/Channel:

15.55

dBm

Test Radio Pwr Out

34.77

dBm

Distance - Test Radio To Near Antenna

5

Feet

Distance - Test Radio To Far Antenna

70

Feet

Maximum Signal Allowed At Site

-95

dBm

DAS Loss Antenna To BDA - dB

Free Space Path Loss Radio To Antenna - dB

Power In To BDA - dBm

BDA Gain - dB

BDA Power Out - dBm

Feed Line Loss To Donor Ant - dB

Donor Antenna Gain dBd

Donor Ant ERP - dBm

UL RSSI At Site - dBM

BDA Compression Level - dB

UL Attenuator Required ?

Minimum Attenuator Value - dB

Near Ant =

Ant12

17.00

34.28

-16.51

50

15.55

22.00

13.85

7.40

-72.93

17.94

YES

22

Far Ant =

Ant14

22.00

57.20

-44.43

50

5.57

22.00

13.85

-2.58

-82.91

0.00

Shaded cells are for user entry. DAS loss antenna to BDA taken from iBwave Design. Feed line loss to donor antenna from iBwave Design. After entering basic information in left panel and shaded cells above (that call for entry), this spreadsheet calculates all path losses, signal level to host radio site, attenuation between uplink amplifier and duplexer (if required).

STRUCTURED COMMUNICATIONS

P.O. BOX 1368

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425.321.5343

WESLEY HOMES BUILDING D

PREPARED FOR STRUCTURED COMMUNICATIONS

707 39TH AVENUE SE

PUYALLUP, WA

PIERCE COUNTY

FCC

FEDERAL COMMUNICATIONS COMMISSION

USA

FCC LIC. NO.: PG00085757

FRN: 0029286614

GRANT DATE: 03-05-20

CONNOLLY, JULIA

REVISION

NO.	DESCRIPTION	DATE
0	100% C.D.	11/18/25

City of Puyallup

Development & Permitting Services

ISSUED PERMIT

Building

Engineering

Fire

Planning

Public Works

Traffic

FACILITY

WESLEY HOMES BUILDING D EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM (ERCES)

SCALE

NA

DRAWN BY

J.T.

SHEET TITLE

ERCES 5.2

PLAN NAME

UPLINK LINK BUDGET

PLOT DATE

11/18/2025

27

OF 27 SHEETS