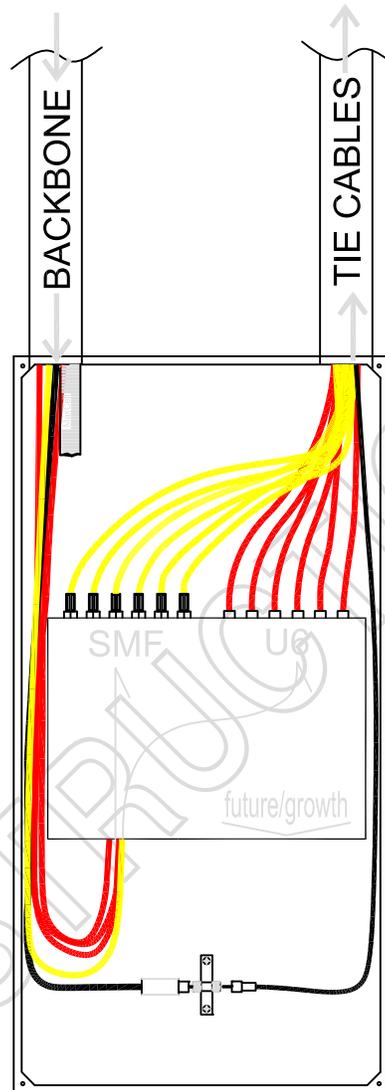


PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

-FOR USE BY ALL TENANTS AND PORT OFFICES REQUIRING A DMARC (exception: Kiosk and/or Small Operations)

Revision: GEN 3.1_050115 for DIV-27



Instructions to Communication Engineer &/or Designer:

1. DMARC ELEC Details 1a thru 1d relate to best conduit route choices to DMARC for your location. Pick one setup for conduit that best serves route to your space. The detail picked shall go into the Electrical plan set!
2. Pair the COMM Detail (1a thru 1d) that matches the ELEC plan you selected. This plan and all following details shall go into the Communication plan set!
3. Include detail G1, G2 and P1 with the assembly of COMM details. These are general details and a parts list that must be packaged with all DMARC drawing sets
4. Make every effort to use one of the four conduit layouts. Alterations or mirroring of design must be brought to the attention of the START Committee for approval. The Label templates, cable routing, and bend tolerances rely of the above steps followed properly to provide a consistent working product for all parties.

PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

-FOR USE BY ALL TENANTS AND PORT OFFICES REQUIRING A DMARC (exception: Kiosk and/or Small Operations)

Revision: GEN 3.1_050115 for DIV-27

Instructions to Communication Engineer &/or Designer:



1. After you attend your first design review by the START Committee, you will receive a Termination sheet like the below which covers Cable Labels and proper Termination Points in a Port of Seattle Equipment Room (ER)
2. This document shall go into the Communications plan set!

DMARC INFRASTRUCTURE TERMINATION & LABEL SUPPORT

Notes:

1. All cable infrastructure shall be Systemax/CommScope; refer to DMARC drawing for necessary parts list and required termination hardware layout
2. Inspect 2" conduit pathway; Communication pathways MUST NOT exceed 180° of bend between pull points
3. Ensure Ethernet standards are maintained and DMARC termination panel to panel is equal to less than 90m (297ft.) - unless exception noted by Design Engineer &/or Port of Seattle approved variance
4. See below for required CONDUIT label at every 25ft. on continuous run and both sides of any penetration

Required CONDUIT Label-
 COT.MT.01234
 ER/STIA
 EQ.A-TEST-1

DMARC ID:
 EQ.A-TEST-1

Space Name:
 example

DESTINATION

Amt:	Description	Connector	Panel ID	Ports*	Fiber ID	
1	12 Strand SMF	SC-Duplex	I.XPP.A-TEST1-10	1-6	FB.SM.MT.01234	THRU-
6	Category 6	Info. Mod.		1-6	CB.U6.MT.01234	-01238
1	RG-11 Coax	F-Male	n/a	n/a	CB.CX.MT.01234	

(*): Port layout within 24 port Systemax M224 Type Zone Box detailed on DMARC COMM drawing

Label Example-

Required 4-Line wrap around (self lam.) label placed at EACH end of cable within 2" of entry point of panel &/or termination point

FB.SM.MT.01234
 ER/STIA
 EQ.A-TEST-1

Attention: Communication Design Engineers & Contractors

Port of Seattle will have all necessary Patch Panel LABELS completed at the SOURCE end, the Port of Seattle communication room, prior to cable installation and termination by tenant's communication contractor. All patch panels shall be COMMSCOPE/SYSTEMAX Certified. Ensure DMARC INFRASTRUCTURE is terminated to rack noted SOURCE locations only, and to the labeled locations. You are responsible for DMARC INFRASTRUCTURE jacket labels (each end). Post cable termination, please schedule a site inspection by contacting the ICT Service Desk at 206-767-3333 -Request Network Engineering, New Infrastructure Inspection Services.

Port of Seattle Equipment Room ID:
 ER/STIA

SOURCE

Amt:	Description	Connector	Panel ID	Ports	Fiber ID	
1	12 Strand SMF	SC-Duplex	M.FPP.STIA0101.80	1-12	FB.SM.MT.01234	THRU-
6	Category 6	6p Mod.	M.CPP.STIA0103	1-6	CB.U6.MT.01234	-01238
1	RG-11 Coax	F-Male	n/a (Place at CATV tap on WF)	n/a	CB.CX.MT.01234	

Label Example-

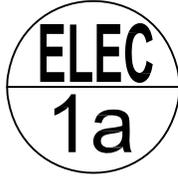
Required 3-Line wrap around (self lam.) label placed at EACH end of cable within 2" of entry point of panel &/or termination point

FB.SM.MT.01234
 ER/STIA
 EQ.A-TEST-1

PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

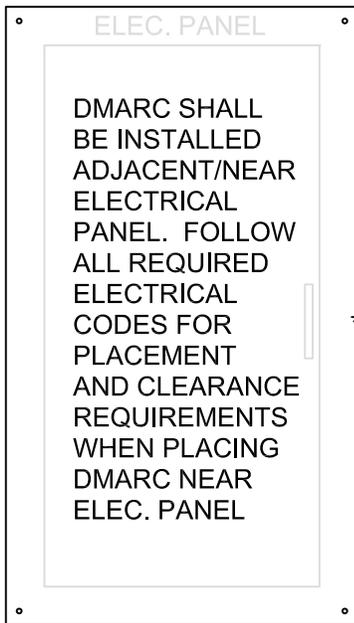
-FOR USE BY ALL TENANTS AND PORT OFFICES REQUIRING A DMARC (exception: Kiosk and/or Small Operations)

Revision: GEN 3.1_050115 for DIV-27



CONDUIT ROUTE METHOD:
BACKBONE: BOTTOM/LEFT
TIE CABLE: TOP/RIGHT

Attention Electrical Contractor:
DO NOT deviate from conduit plan, Communication Contractor is reliant on proper setup. Field changes are NOT allowed, bring changes before Project Engineer for review.

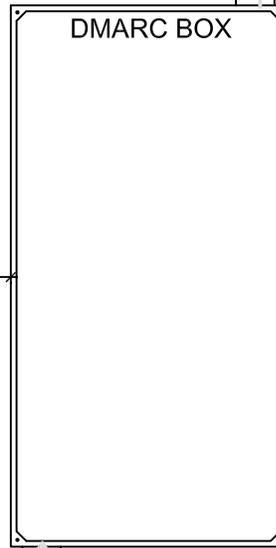


Spaced Per Code

2" CONDUIT
STUB UP @
8'-0" AFF



ALT side exit for
TIE CABLES
*Stub CDT. =< 12"

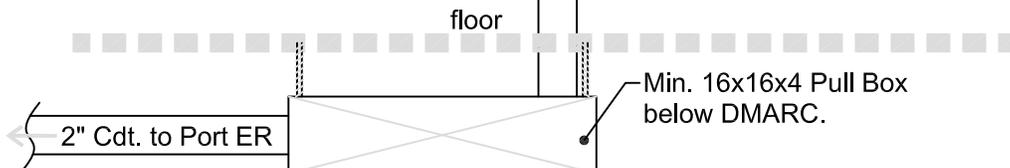


CP



Important Note:
BACKBONE Conduit run shall not exceed 75m (or 250ft.) from the Port of Seattle Equipment Room penetration to the DMARC box entry point. This will allow Communication Contractor to meet stringent Ethernet test and warranty requirements.

floor



PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

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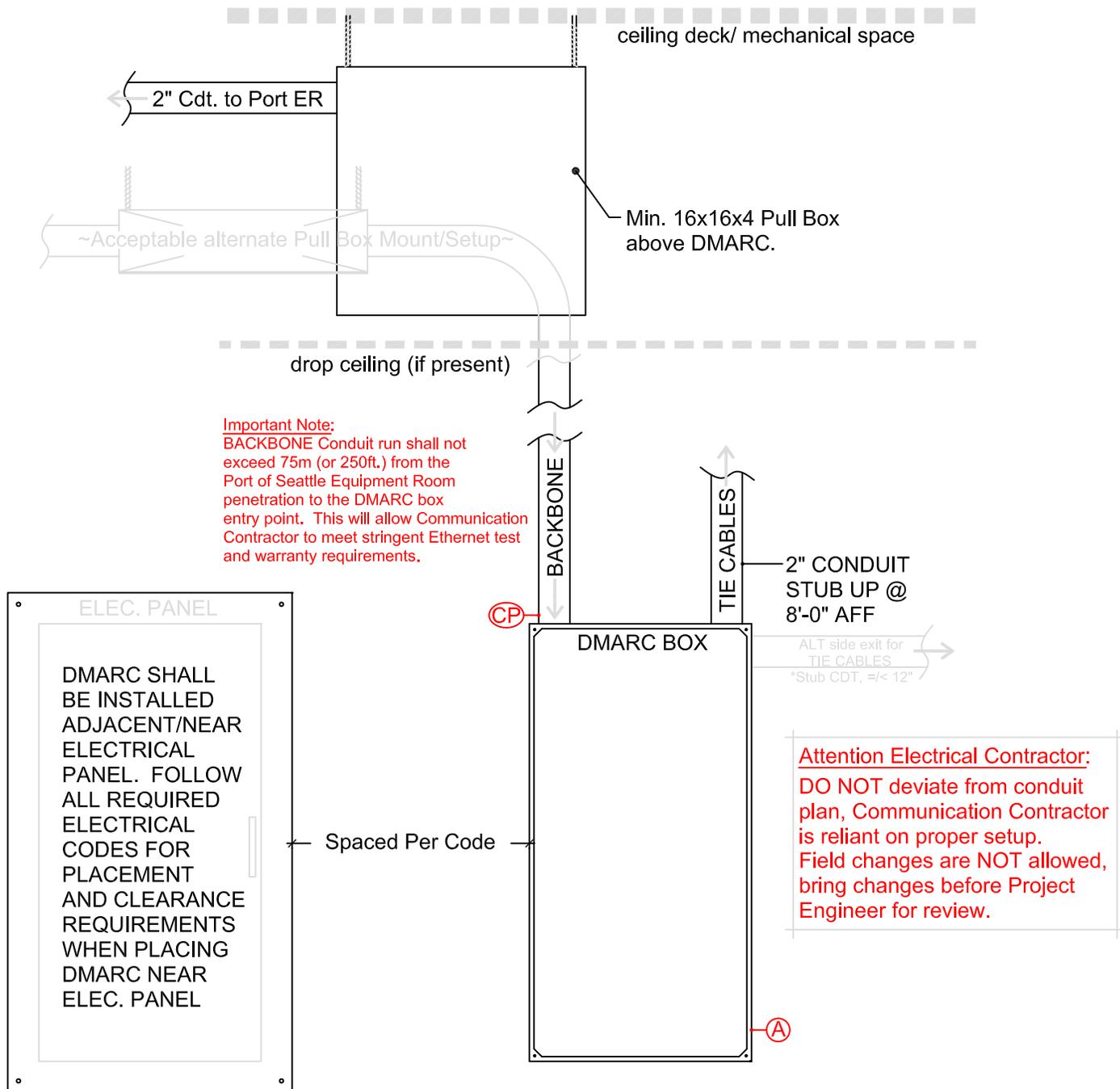
Revision: GEN 3.1_050115 for DIV-27



CONDUIT ROUTE METHOD:

BACKBONE: TOP/LEFT

TIE CABLE: TOP/RIGHT



Important Note:
BACKBONE Conduit run shall not exceed 75m (or 250ft.) from the Port of Seattle Equipment Room penetration to the DMARC box entry point. This will allow Communication Contractor to meet stringent Ethernet test and warranty requirements.

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-FOR USE BY ALL TENANTS AND PORT OFFICES REQUIRING A DMARC (exception: Kiosk and/or Small Operations)

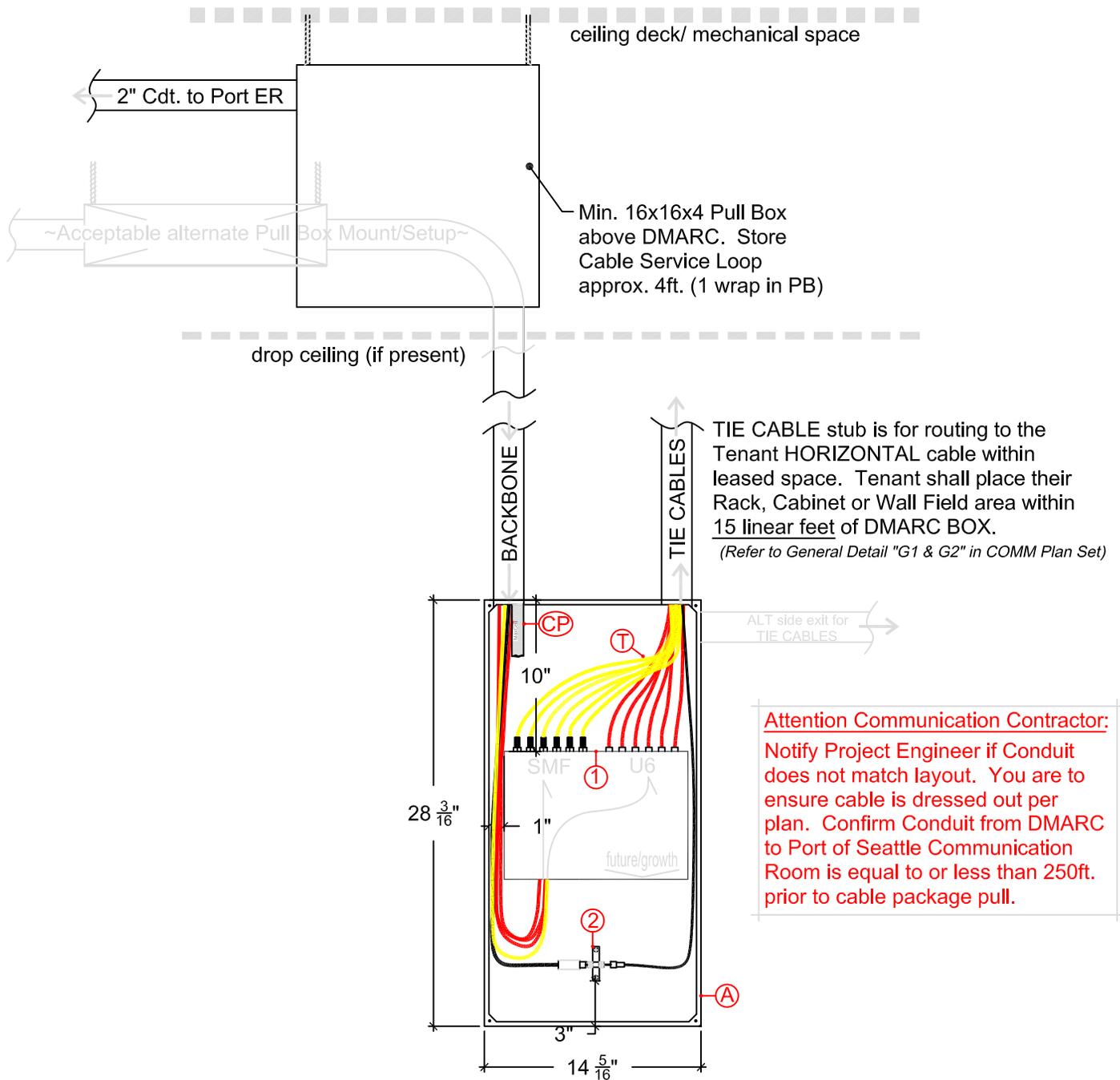
Revision: GEN 3.1_050115 for DIV-27



CABLE ROUTE METHOD:

BACKBONE: TOP/LEFT

TIE CABLE: TOP/RIGHT

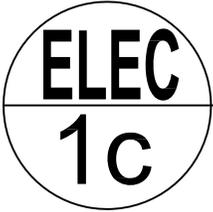


Attention Communication Contractor:
 Notify Project Engineer if Conduit does not match layout. You are to ensure cable is dressed out per plan. Confirm Conduit from DMARC to Port of Seattle Communication Room is equal to or less than 250ft. prior to cable package pull.

PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

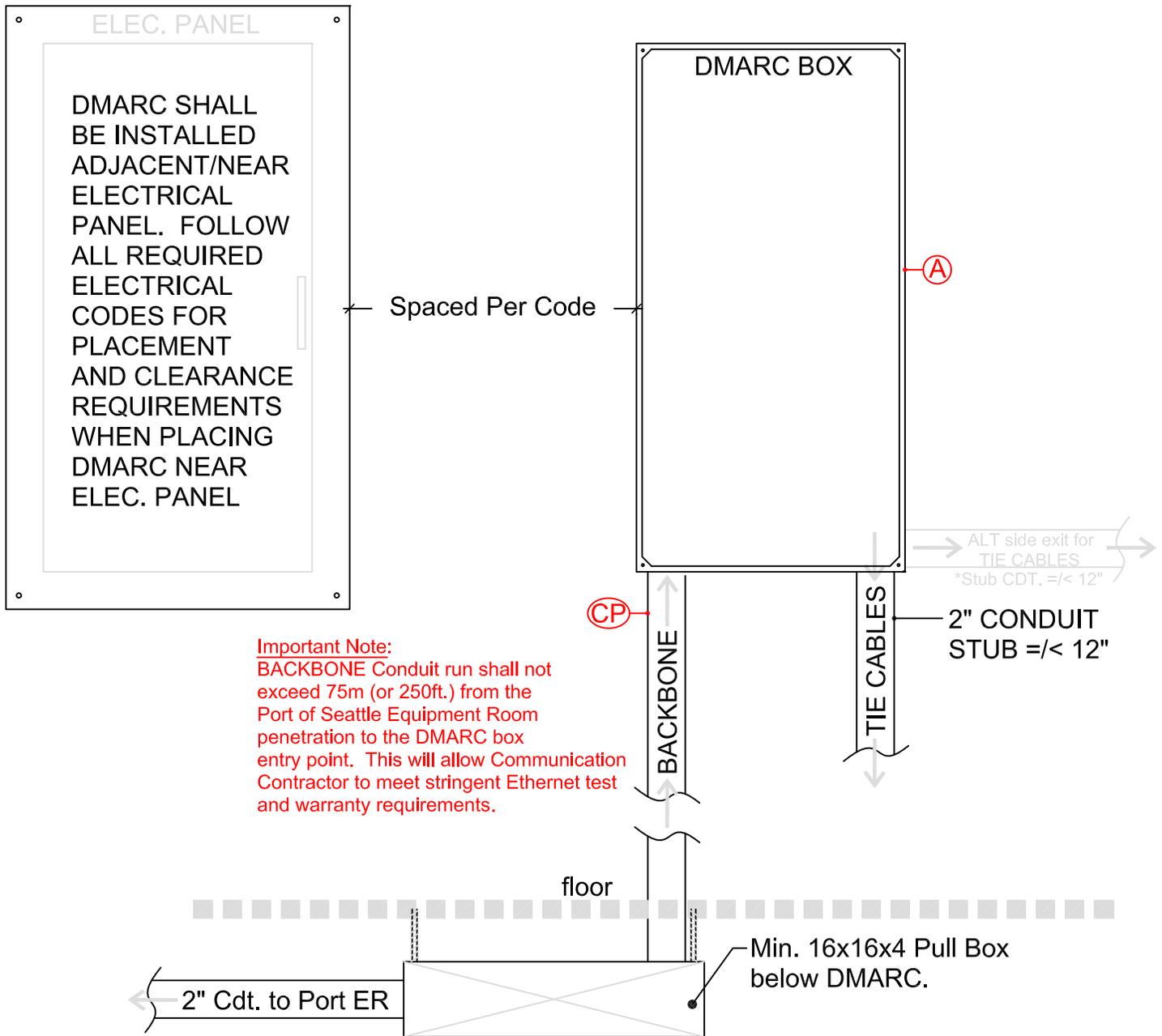
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Revision: GEN 3.1_050115 for DIV-27



CONDUIT ROUTE METHOD:
BACKBONE: BOTTOM/LEFT
TIE CABLE: BOTTOM/RIGHT

Attention Electrical Contractor:
DO NOT deviate from conduit plan, Communication Contractor is reliant on proper setup. Field changes are **NOT** allowed, bring changes before Project Engineer for review.



Important Note:
BACKBONE Conduit run shall not exceed 75m (or 250ft.) from the Port of Seattle Equipment Room penetration to the DMARC box entry point. This will allow Communication Contractor to meet stringent Ethernet test and warranty requirements.

PORT OF SEATTLE DEMARCATION (DMARC) CABLE PACKAGE DESIGN

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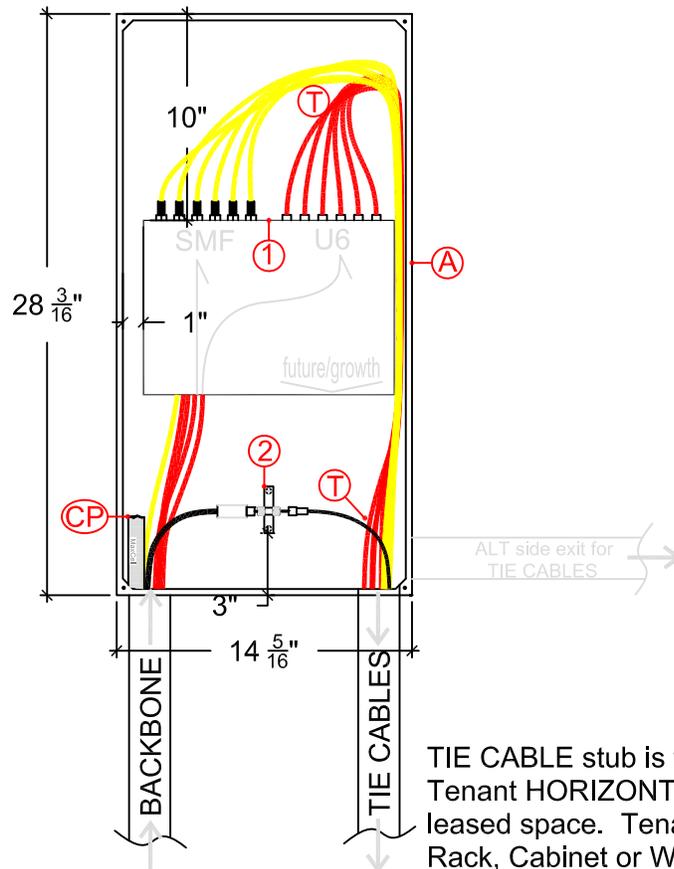


CABLE ROUTE METHOD:

BACKBONE: BOTTOM/LEFT

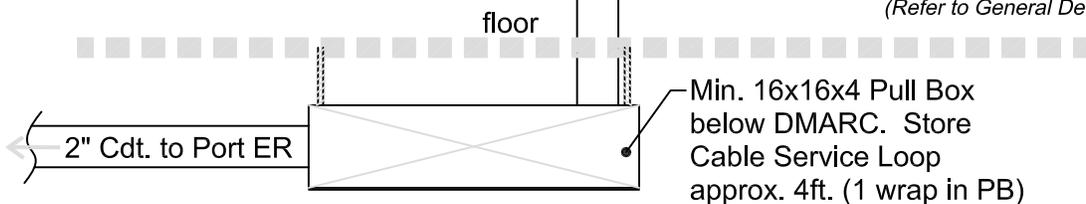
TIE CABLE: BOTTOM/RIGHT

Attention Communication Contractor:
 Notify Project Engineer if Conduit does not match layout. You are to ensure cable is dressed out per plan. Confirm Conduit from DMARC to Port of Seattle Communication Room is equal to or less than 250ft. prior to cable package pull.



TIE CABLE stub is for routing to the Tenant HORIZONTAL cable within leased space. Tenant shall place their Rack, Cabinet or Wall Field area within 15 linear feet of DMARC BOX.

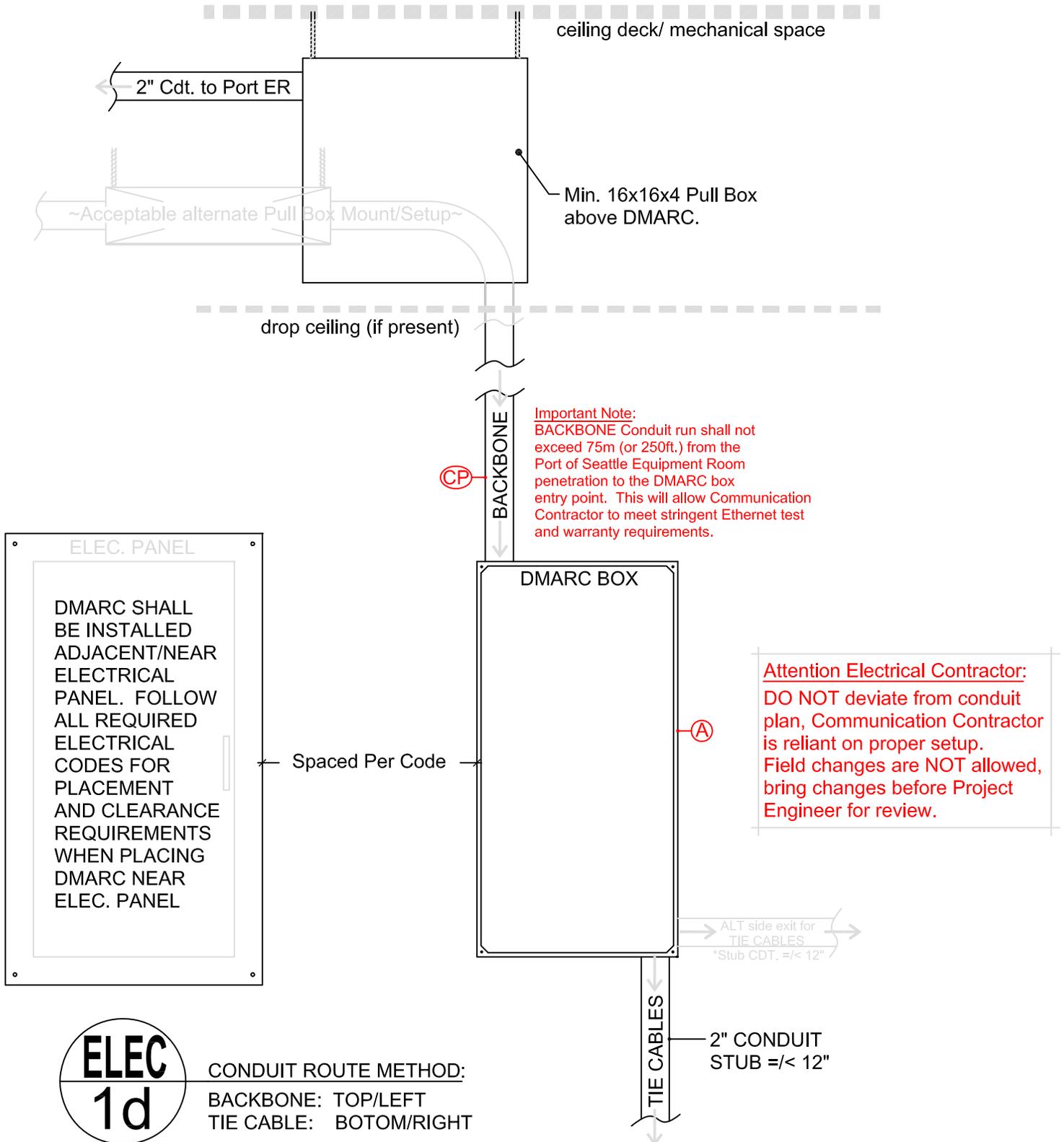
(Refer to General Detail "G1 & G2" in COMM Plan Set)



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CONDUIT ROUTE METHOD:
BACKBONE: TOP/LEFT
TIE CABLE: BOTOM/RIGHT



TIE CABLE TERMINATION:
GENERAL DETAIL -part 1

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TENANT END OF TIE CABLES; TERMINATION HARDWARE LAYOUT:

- 1- Tenant end, also known as Tenant Horizontal, shall be within 15 linear feet of DMARC Panel
- 2- Mount below noted hardware in TENANT RACK, CABINET or on WALL FIELD
- 3- If Tenant Horizontal area is not defined at point of DMARC install, store termination hardware for tie cable tenant end in DMARC box
- 4- For further information, refer to TERMINATION HARDWARE & CABLE (TIE Section) -Detail P1 and GENERAL DETAIL -part 2 which shows typical elevation details of Tie Cable arrangements

