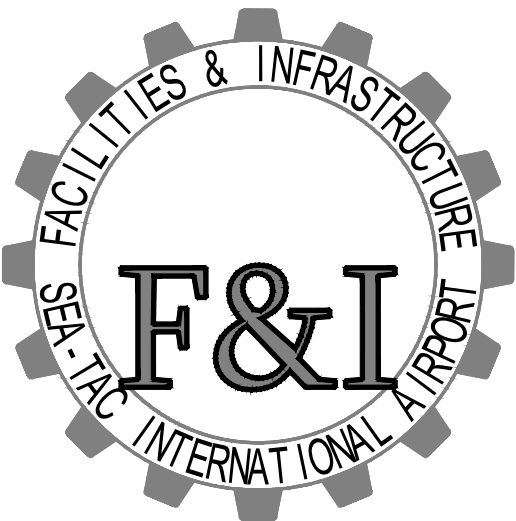


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AV F&I Electric Standards
04/07/2025 - 2025 F&I STANDARD DETAILS

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REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	04/07/2025	MDR	NEW SHEET, 2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

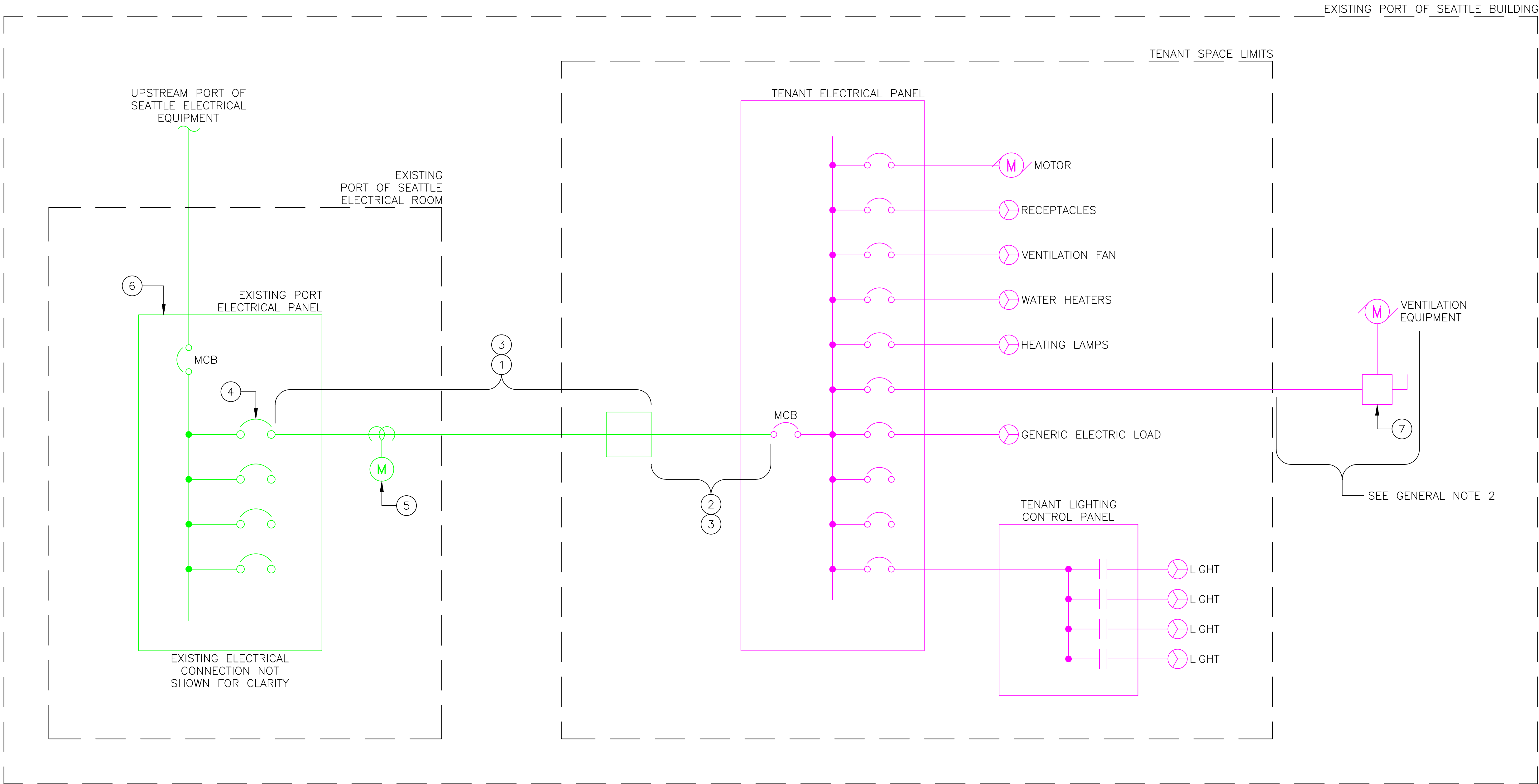
SHEET TITLE: **F&I ELECTRICAL STANDARDS COVER SHEET AND SHEET INDEX**

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.
26 00 00 - 00

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LEGEND

— PORT OF SEATTLE MANAGED AND OWNED

— TENANT MANAGED AND OWNED

ABBREVIATION

BRPELS BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND LAND SURVEYORS
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
MCB MAIN CIRCUIT BREAKER
PFCI PORT FURNISHED, CONTRACTOR INSTALLED
PFPI PORT FURNISHED, PORT INSTALLED

KEYNOTES

- ① PFPI, RACEWAY AND J-BOX.
- ② CFCI, RACEWAY.
- ③ CFCI, CONDUCTORS, SEE GENERAL NOTE 3.
- ④ CFCI, CIRCUIT BREAK.
- ⑤ CFCI, METER & METER CONNECTIVITY.
- ⑥ 30 DAY LOAD STUDY REQUIRED FOR LOAD AVAILABILITY AND BREAKER SIZING. REQUESTED BY PROJECT PERFORMED BY PORT MAINTENANCE.

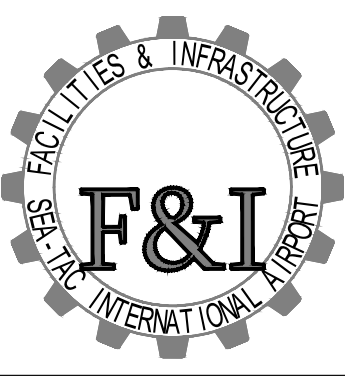
⑦ CFCI, LOCAL EQUIPMENT DISCONNECTING MEANS PER CODE.

GENERAL NOTES:


1. TENANT SPACE MUST ADHERE TO NATIONAL ELECTRIC CODE, AND STATE ELECTRIC CODE.
2. ALL SPACES OUTSIDE THE TENANT SPACES AND UPSTREAM OF TENANT ELECTRICAL PANEL SHALL ADHERE TO NATIONAL ELECTRIC CODE, STATE ELECTRIC CODE, AND PORT OF SEATTLE ELECTRICAL STANDARDS.
3. CONDUCTORS SHALL BE SIZED ACCORDINGLY PER CODE AND FACTOR IN LINE LOSE.
4. ALL DESIGN DOCUMENT (DRAWINGS, SPECIFICATION, CALCULATION, ETC) SHALL BE STAMPED, SIGNED, AND DATED BY A PROFESSIONAL ENGINEER OF THE STATE OF WASHINGTON PER WASHINGTON STATE BRPELS REQUIREMENTS.

5. TENANT EQUIPMENT SHALL BE MAINTAINED, OPERATED AND SERVICED BY TENANT OR TENANT'S ELECTRICAL CONTRACTOR.

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NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	04/07/2025	MDR	NEW DETAIL, 2025 F&I STANDARD DETAILS						

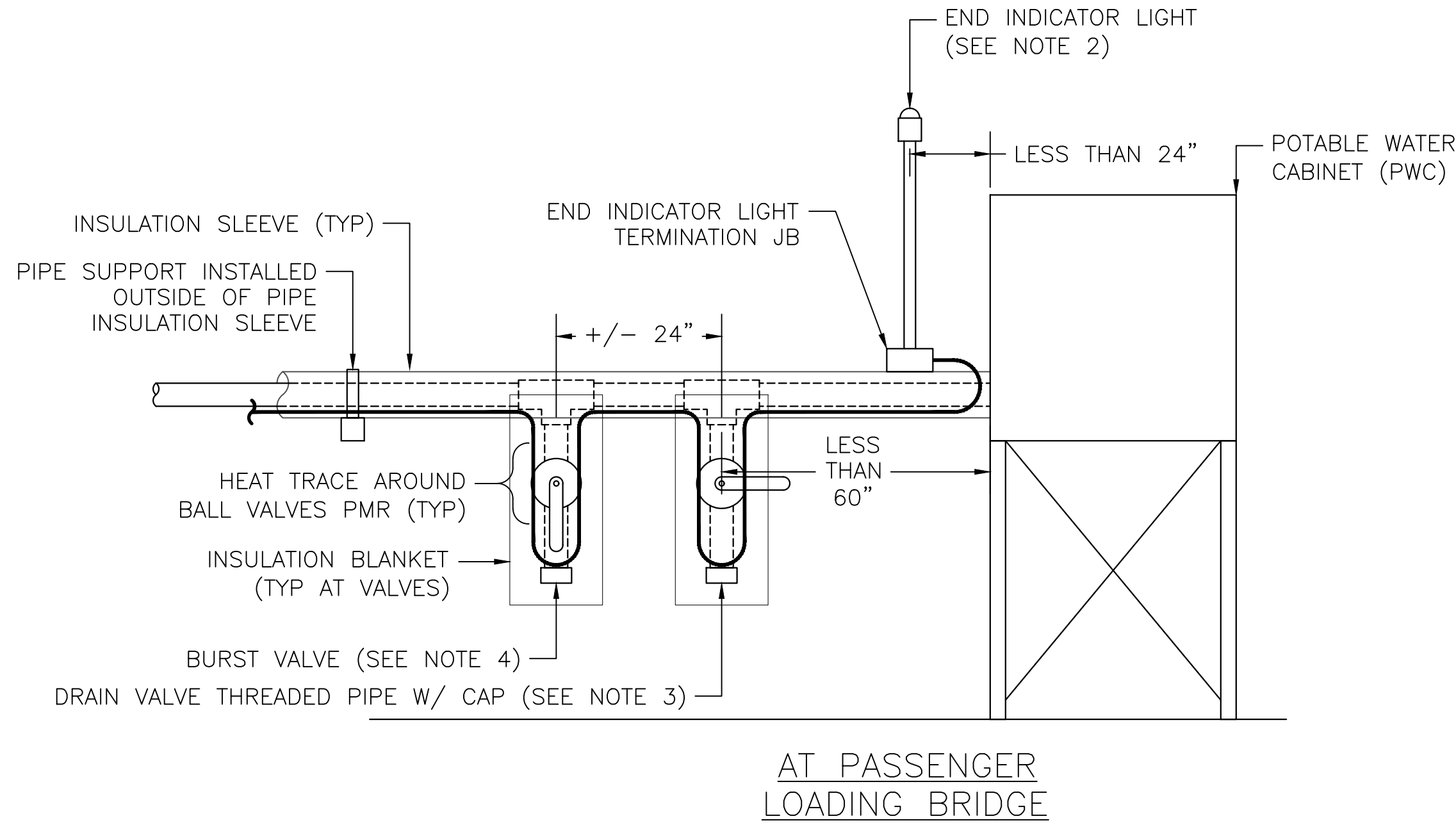
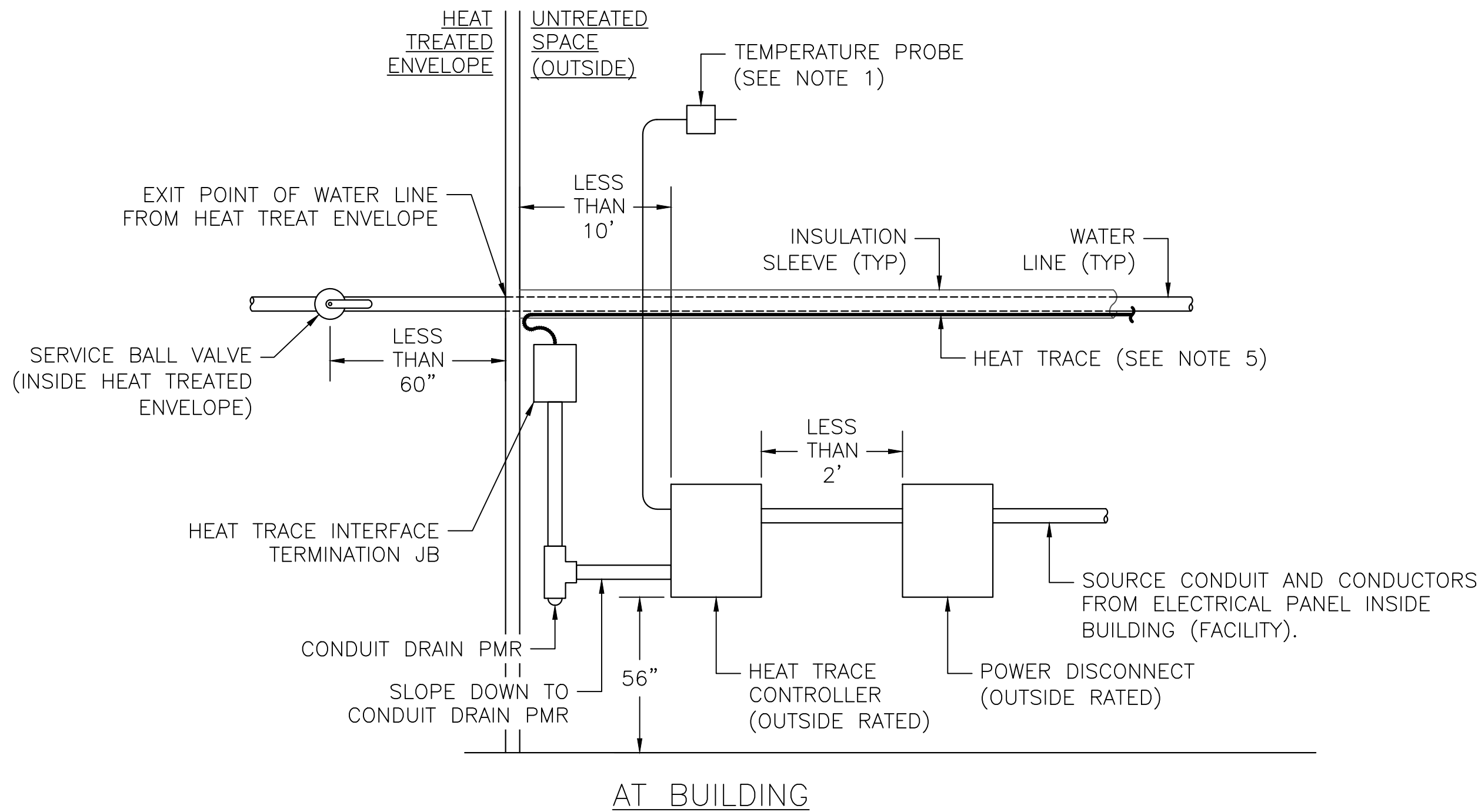


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DESIGN ENGINEER:	
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**SEA-TAC INTERNATIONAL AIRPORT**
PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **GENERIC - AIRPORT DINING AND RETAIL ELECTRICAL REQUIREMENTS**

WORK PROJECT NO.	
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	26 00 00 - 01

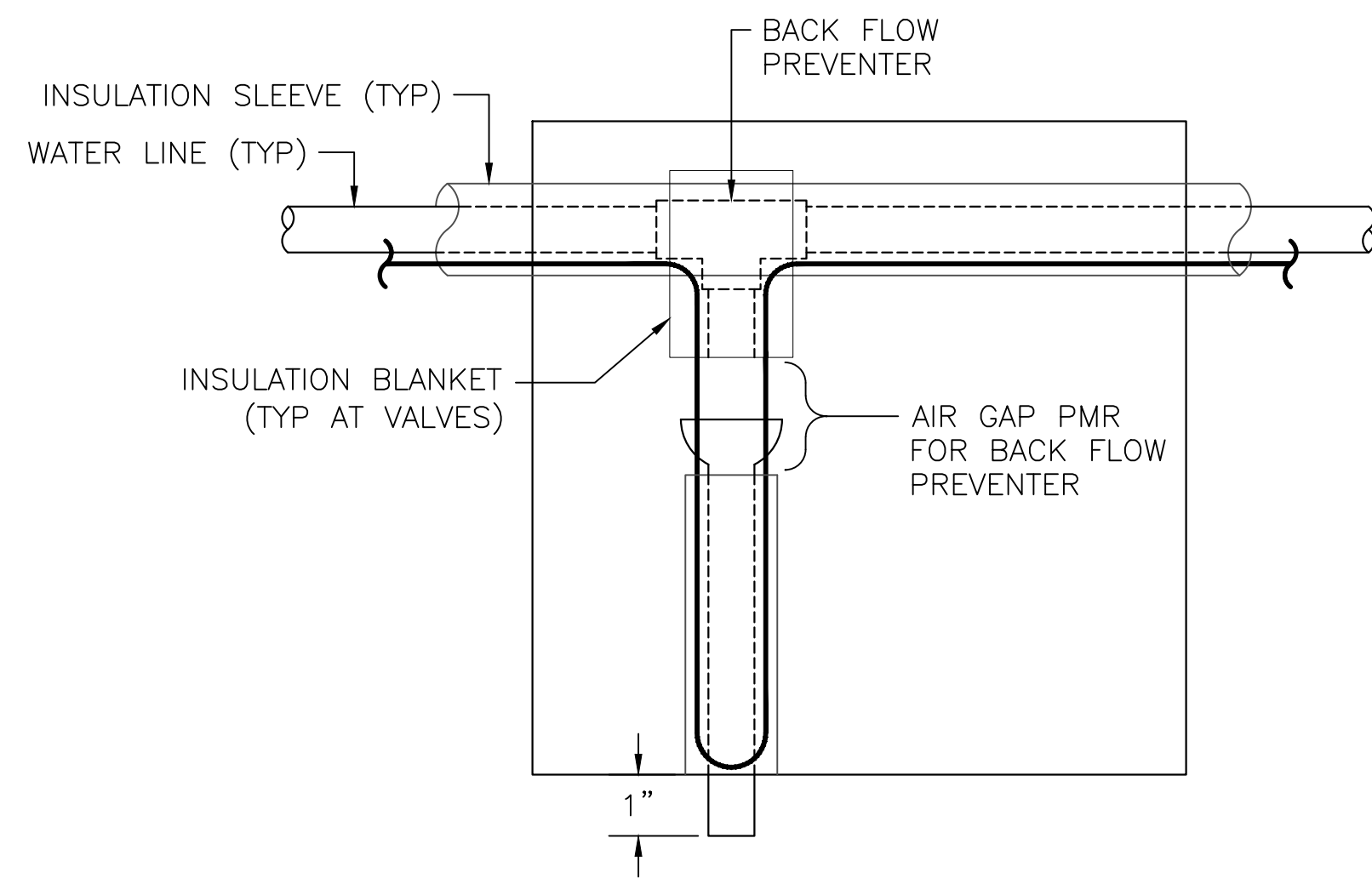
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DETAIL
HEAT TRACE EQUIPMENT LAYOUT
SCALE: NTS

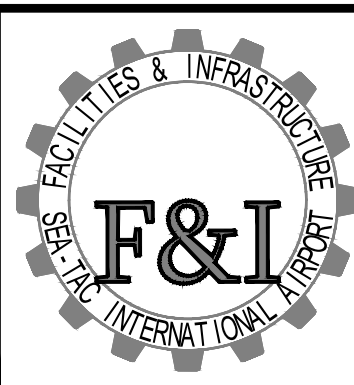
ABBREVIATIONS:
APPROX. APPROXIMATE
JB JUNCTION BOX
LED LIGHT EMITTING DIODE
PMR PER MANUFACTURES RECOMMENDATION
PWC POTABLE WATER CABINET
TYP TYPICAL
W/ WITH

- HEAT TRACE INSTALLATION NOTES:**
- TEMPERATURE PROBE SHALL BE INSTALLED IN UNTREATED SPACE (OUTSIDE AIR, NOT UNDER BUILDING OR OTHER LARGER STRUCTURES). PLACEMENT OF THE TEMPERATURE PROBE SHALL BE POSITIONED SUCH THAT IT IS NOT HEATED OR COOLED BY ANY SOURCE OTHER THAN AMBIENT UNTREATED SPACE AIR.
 - SECURE END INDICATOR LIGHT (LED) TO POTABLE WATER CABINET SUCH THAT IT IS VISIBLE FROM DRIVE LANE. MOUNTING OF END INDICATOR LIGHT SHALL NOT PENETRATE INTO THE PWC.
 - DRAIN VALVE NORMALLY CLOSED. DRAIN VALVE USED FOR DRAINING WATER LINE SERVICE.
 - BALL VALVE FOR BURST VALVE NORMALLY OPENED AND CLOSED FOR SERVICING OR REPLACING BURST VALVE. BURST VALVE RATED PER PORT DESIGN STANDARDS.
 - INSTALL HEAT TRACE IN BETWEEN WATER LINE AND INSULATION SLEEVE PMR.



DETAIL
RP BOX IN UNTREATED SPACE
SCALE: NTS

R E V I S I O N S							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	04/07/2025	MDR	NEW DETAIL, 2025 F&I STANDARD DETAILS				



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **GENERIC - POTABLE WATER CABINET HEAT TRACE**

WORK PROJECT NO.
-
CONSULTANT'S NO.
-
PORT OF SEATTLE NO.
26 00 00 - 02

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ARCHITECT/ENGINEER CODE INFORMATION CHECKLIST

A. GENERAL PROJECT INFORMATION

1. Name of Project:

NAME OF PROJECT

2. Official street address:

City of SeaTac, WA

3. Parcel No.:

282 304-9016

4. Project description:

PROJECT DESCRIPTION

(Name)(Address)(Telephone)

5. Owner:

Port of Seattle

PO Box 68727
Seattle, WA 98168

PM PHONE #

6. Architect:

7. Civil:

ENGINEER'S NAME

ENGINEER'S ADDRESS

ENGINEER'S PHONE #

8. Structure:

ENGINEER'S NAME

ENGINEER'S ADDRESS

ENGINEER'S PHONE #

9. Mechanical:

ENGINEER'S NAME

ENGINEER'S ADDRESS

ENGINEER'S PHONE #

10. Electrical:

ENGINEER'S NAME

ENGINEER'S ADDRESS

ENGINEER'S PHONE #

11. Contact Person:

PM NAME

PM ADDRESS

ENGINEER'S PHONE #

(Port Project Manager)

12. New ☒ Addition ☐ Tenant Improvement ☐

13. Existing lot/building use:

N/A

14. Proposed use(s):

DESCRIBE

15. Environmental documents on project:

N/A

16. Port of Seattle Aviation Building Department:
Address: 17900 International Blvd., #300B
Seattle, WA 98188
Phone #: (206) 835-5806

B. ZONING DESIGNATION/ENVIRONMENTAL REVIEW

1. Zoning designation:

Airport Zoning

2. Use zone of adjacent lots: North South

X

 East

X

 West

3. Lot area (square feet)

N/A

4. Percent of lot covered by building(s):

N/A

5. Total impervious surface: Existing

No change

 Proposed

No change

6. Net increase/decrease of impervious surface:

0

7. Change in type of impervious surface:

No

8. Fire:

Jurisdiction: Port of Seattle Fire Department

Sprinkler: Existing

N/A

 New

N/A

Fire Alarm: Existing

N/A

 New

N/A

9. Parking standards: Existing

0

 required

0

 Proposed

0

 See sheet

N/A

10. Landscaping (RAC, Section No.)

N/A

11. Surface water standards:

King County Surface Water Design Manual

12. Surface Water discharge by basin:

Des Moines Creek

13. Technical Information Report required (Y/N):

No

14. Geotech report required: (Y/N):

No

15. Approximate area of earth work (SF or Acres)

0

C. BUILDING INFORMATION

1. New ☐ Addition ☐ Tenant Improvement ☐ N/A

2. Existing lot/building use:

VARIES

3. Proposed use(s):

BUILDING INFORMATION

4. Occupancy group: Existing:

N/A

 Proposed:

N/A

5. Construction type required: Existing:

N/A

 Proposed:

N/A

6. Allowable height:

N/A

7. Allowable area:

N/A

8. Set backs:

N/A

9. Building height (both in feet and number of stories): Feet Stories

10. Main floor area and occupant load: Floor area:

N/A

 Occupant load

N/A

11. Mezzanine floor area and occupant load: Floor area:

N/A

 Occupant load

N/A

12. Architect design standards: (RAC, Section No.)

N/A

13. Total floor area (including basements and occupied roofs):

N/A

14. ADA requirement:

N/A

15. Energy code: Third party review & inspection required? (Y/N)

N/A

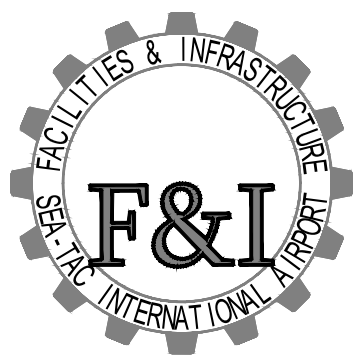
Method: Component/Prescriptive:

16. Seattle-King County Health Department approval required? (Y/N)

No

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:

PROJECT ENGINEER:

DESIGN ENGINEER:

DRAFTER:

SCALE:

N.T.S.

DATE:

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Port of Seattle

SEA-TAC INTERNATIONAL AIRPORT

PROJECT:

F&I STANDARD DETAILS

SHEET TITLE:

CODE CHECKLIST

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 00 - G01

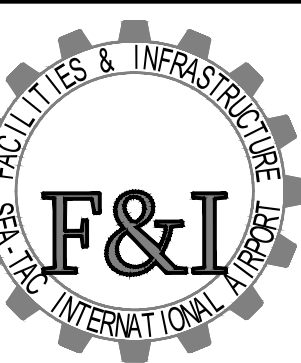
\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10_STANDARDS\02_CAD_STANDARDS\01_DIV2ES\WORKING\DWG\260500-002.DWG, SAVED: 3/11/2025 5:12 PM, MZB926, PLOTTED:4/7/2025 9:25 AM

ABBREVIATIONS

A	AMMETER, AMPERE, AMPS	DN	DOWN
ABND	ABANDON	DO	DITTO
ABV	ABOVE	DP	DISTRIBUTION PANELBOARD
AC	ASPHALTIC CONCRETE/ALTERNATING CURRENT	DS	DISCONNECT SWITCH
ACP	ASPHALT CONCRETE PAVEMENT	DWG	DRAWING
ADS	ADS CORRUGATED POLYETHYLENE PIPE	E	EAST
AF	AMP FRAME	EA	EACH
AFF	ABOVE FINISHED FLOOR	EC	ELECTRICAL CONDUIT
AFG	ABOVE FINISHED GRADE	ED	ELECTRICAL DUCT
AHU	AIR HANDLING UNIT	EF	EXHAUST FAN
AIC	AMPS INTERRUPTING CAPACITY	EGC	EQUIPMENT GROUND CONDUCTOR
AL	ALUMINUM	EI	ELECTRICAL INTERLOCK
ALT	ALTERNATE	ELEC	ELECTRIC/ELECTRICAL
AM	AMMETER	EL, ELEV	ELEVATION
AMP	AMPERE	ELT	EQUIPMENT LIGHT
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	EMBT	EMBEDMENT
AOA	AIRFIELD OPERATIONS AREA	EMT	ELECTRICAL METALLIC TUBING
APPROX	APPROXIMATE	EMERG	EMERGENCY
ARCH	ARCHITECTURAL	ENCL	ENCLOSURE
ASPH	ASPHALT	ENGR	ENGINEER
ASR	AIRPORT SURVEILLANCE RADAR	EOP	EDGE OF PAVEMENT
ASTM	AMERICAN SOCIETY FOR TESTING MATERIAL	EPR	ETHYLENE PROPYLENE RUBBER
AT	AMP TRIP	EQ	EQUAL
ATS	AUTOMATIC TRANSFER SWITCH	EQUIP	EQUIPMENT
AUX	AUXILIARY	EQUIV	EQUIVALENT
AUTO	AUTOMATIC	ETL	ELECTRICAL TESTING LABORATORY
AVG	AVERAGE	EW	EACH WAY
AWG	AMERICAN WIRE GAUGE	EWC	ELECTRIC WATER COOLER
		EWH	ELECTRIC WATER HEATER
BATT	BATTERY	EXIST	EXISTING
BC	BOLT CIRCLE/BARE COPPER	EXH	EXHAUST
BET	BETWEEN	EXJ	EXPANSION JOINT
BITUM	BITUMINOUS	EXP	EXPOSED
BLDG	BUILDING	EXT	EXTERIOR
BM	BENCH MARK	E-W	EAST-WEST
BKR	BREAKER		
BOT	BOTTOM	F	FARENHEIT, FEEDER
		FAA	FEDERAL AVIATION ADMINISTRATION
C	CONDUCTOR	FACP	FIRE ALARM CONTROL PANEL
CAB	CABINET	FC	FOOT CANDLE
CAT	CATALOG	FD	FIELD DRILL, FLOOR DRAIN
CB	CATCH BASIN OR CIRCUIT BREAKER	FDN	FOUNDATION
CCR	CONSTANT CURRENT REGULATOR	FDR	FEEDER
CEM	CEMENT	FH	FIRE HYDRANT
CF	CUBIC FOOT	FHP	FRACTIONAL HORSEPOWER
CI	CAST IRON	FIN	FINISHED
CIP	CAST-IN-PLACE	FIN FL	FINISHED FLOOR
CJ	CONSTRUCTION JOINT	FIXT	FIXTURE
CKT	CIRCUIT	FL	FLOOD LIGHT
CLR	CLEAR	FLEX	FLEXIBLE CONDUIT
CL	CLASS OR CENTERLINE	FLR	FLOOR
CLG	CEILING	FLUOR	FLUORESCENT
CMP	CORRUGATED METAL PIPE, CENTRAL MECHANICAL PLANT	FM	FACTORY MUTUAL
CO	CONDUIT ONLY	FO	FIBER OPTIC
COL	COLUMN	FS	FAR SIDE
COMM	COMMUNICATION(S)	FT	FOOT (FEET)
CONC	CONCRETE	FTG	FOOTING
COND	CONDUIT	FU	FUSE
CONN	CONNECT/CONNECTION	FUT	FUTURE
CONST	CONSTRUCTION	FV	FULL VOLTAGE
CONT	CONTINUOUS	FVR	FULL VOLTAGE REVERSING
CONTR	CONTRACTOR	FVNR	FULL VOLTAGE NON-REVERSING
COORD	COORDINATE	G	GREEN INDICATING LIGHT OR GROUND (ELECTRICAL)
CP	CONCRETE PIPE		
CPD	CAPPED	GALV	GALVANIZED
CPT	CONTROL POWER TRANSFORMER	GB	GROUND BEAM
CR	CONTROL RELAY	GCB	GAS CIRCUIT BREAKER
CRS	PVC COATED RIGID STEEL	GEC	GROUNDING ELECTRODE CONDUCTOR
CS	CONTROL SWITCH/CONTROL STATION	GEN	GENERATOR
CSA	CANADIAN STANDARDS ASSOCIATION	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
CT	CURRENT TRANSFORMER	GFI	GROUND FAULT INTERRUPTER
CTE	CENTRAL TERMINAL EXPANSION	GND	GROUND
CTR	CENTER	GR	GRADE, GROUND ROD
CTRL	CONTROL	GRS	GALVANIZED RIGID STEEL
CTS	CURRENT TEST SWITCH	GV	GATE VALVE
CU	COPPER		
CY	CUBIC YARD	H	HEIGHT (HIGH)
		HBS	HIGH BUS SUPPORT
DB	DUCT BANK	HCO	ANNUNCIATOR HORN CIRCUIT
DBC	DIRECT BURIAL CABLE	HDSS	HIGH BUS DISCONNECT SWITCH SUPPORT
DC	DIRECT CURRENT	HEX	HEXAGONAL
DDC	DIRECT DIGITAL CONTROL	HF	H-FRAME
DED	DEDICATED	HH	HANDHOLE
DET	DETAIL	HID	HIGH INTENSITY DISCHARGE
DIA	DIAMETER	HK	HOOK
DIFF	DIFFERENTIAL	HMI	HUMAN-MACHINE INTERFACE
DIM	DIMENSION	HOA	HAND-OFF-AUTO
DIP	DUCTILE IRON PIPE	HORIZ	HORIZONTAL
DISC	DISCONNECT	HP	HORSEPOWER
DISTR	DISTRIBUTION	HPS	HIGH PRESSURE SODIUM
		HTR	HEATER
		HV	HIGH VOLTAGE
		HZ	HERTZ

I	CURRENT, INTERLOCK	I	CURRENT, INTERLOCK
I/O	INPUT/OUTPUT PANEL	J, JB	JUNCTION BOX
IC	INTERRUPTING CAPACITY	JCT	JUNCTION
ID	INSIDE DIAMETER/DIMENSION	JT	JOINT
IE	INVERT ELEVATION	K	KIRK INTERLOCK, KIP
IBJ	INSTRUMENT JUNCTION BOX	KCMIL	THOUSAND CIRCULAR-MIL
ILS	INSTRUMENT LANDING SYSTEM	KO	KEY OPERATED
IN	INCH	KSI	1000 POUNDS PER SQUARE INCH
INCL	INCLUDING	KV	KILOVOLT
INCL	INCLUDING	KVA	KILOVOLT AMPERE(S)
INST	INSTANTANEOUS	KVAR	KILOVOLT AMPERES REACTIVE
INSTR	INSTRUMENT	KVARH	KILOVARHOUR
INV	INVERT	KW	KILOWATT
IPS	IRON PIPE SIZE	KWH	KILOWATT HOUR
IWS	INDUSTRIAL WASTE SEWER	KWHD	KILOWATT HOUR DEMAND
		L	LENGTH, ANGLE, LIGHT, LOCAL
		LB	POUND, LOADBREAK
		LBS	POUNDS, LOW BUS SUPPORT
		LC	LIGHTING CONTACTOR
		LCP	LOCAL CONTROL PANEL
		LDSS	LOW BUSS DISCONNECT SUPPORT SWITCH
		LED	LIGHT EMITTING DIODE
		LF	LINEAR FEET/FOOT
		LIN	LINEAR
		LO	LOW
		LONGIT	LONGITUDE
		LP	LIQUID PETROLEUM
		LS	LIMIT SWITCH
		LT	LIGHT
		LTC	LOAD TAP CHANGER
		LTG	LIGHTING
		LTS	LIGHTS
		LV	LOW VOLTAGE
		L-L	LINE-TO-LINE
M	MOTOR		
MAX	MAXIMUM		
MC	MISCELLANEOUS CHANNEL		
MCC	MOTOR CONTROL CENTER		
MCM	MILLION CIRCULAR MILS		
MCP	MOTOR CIRCUIT PROTECTOR		
MCOV	MAXIMUM CIRCUIT OPERATING VOLTAGE		
MECH	MECHANICAL		
MEMB	MEMBRANE		
MFM	MULTIFUNCTION METER		
MFR	MANUFACTURER		
MG	MOTOR GENERATOR		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MLO	MAIN LUGS ONLY		
MON	MONUMENT		
MR	MULTI-RATIO		
MTD	MOUNTED		
MTG	MOUNTING		
MTR	MOTOR		
MTS	MAIN TERMINAL SECURITY		
MVA	MEGAVOLT-AMPERE		
N	NORTH/NEUTRAL		
NC	NORMALLY CLOSED		
NE	NORTHEAST		
NEC	NATIONAL ELECTRICAL CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION		
NEUT	NEUTRAL		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NO.	NUMBER		
NPP	NON-PERFORATED PIPE		
NTS	NOT TO SCALE		
N-S	NORTH-SOUTH		
OC	ON CENTER		
OD	OUTSIDE DIAMETER/DIMENSION		
OHW	OVERHEAD WIRE		
OL	OVERLOAD		
OP	OPERATED		
OPP	OPPOSITE		
OPER	OPERATOR		

PA	PUBLIC ADDRESS	PA	PUBLIC ADDRESS
P	PANEL, POLE, PHASE, POWER	PAV	PAVEMENT
PAV	PAVEMENT	PB	PUSH BUTTON
PB	PUSH BUTTON	PBX	PRIVATE BRANCH EXCHANGE
PC	POINT OF CURVATURE, PIECE	PC	PORTLAND CEMENT CONCRETE
PCC	PORTLAND CEMENT CONCRETE	PCF	POUND PER CUBIC FOOT
PCF	POUND PER CUBIC FOOT	PCS	PORT CONSTRUCTION SERVICES
PE	PHOTOELECTRIC SENSOR	PE	PERFORATED
PERF	PERFORATED	PF	POWER FACTOR
PH OR Ø	PHASE	PKG	PACKAGE
PKG	PACKAGE	PL	PLATE
PL	PLATE	PLCS	PLACES
PLCS	PLACES	PMI	PADMOUNT FAULT INTERRUPTOR
PMI	PADMOUNT FAULT INTERRUPTOR	PNL	PANEL
PNL	PANEL	PNLBD	PANELBOARD
PNLBD	PANELBOARD	POS	PORT OF SEATTLE
PR	PAIR	PR	PAIR
PREFAB	PREFABRICATED	PRI	PRIMARY
PRI	PRIMARY	PROJ	PROJECT
PS	POWER SUPPLY	PS	POWER SUPPLY
PSE	PUGET SOUND ENERGY	PSF	POUND PER SQUARE FOOT
PSF	POUND PER SQUARE FOOT	PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY, POINT	PT	POINT OF TANGENCY, POINT
PTVC	POINT OF TANGENCY, VERTICAL CURVE	PVC	POLYVINYL CHLORIDE
PVC	POLYVINYL CHLORIDE	PWR	POWER
QTY	QUANTITY		
R	RADIUS, REMOTE, OR RED INDICATING LIGHT	RCP	REINFORCED CONCRETE PIPE
RECD	RECEIVED	REC	RECEPTACLE
REC	RECEPTACLE	RED	REDUCER
REF	REFERENCE	REF	REFERENCE
REINF	REINFORCEMENT	REINF	REINFORCEMENT
REQD	REQUIRED	REQD	REQUIRED
REV	REVISION/REVISED	RGS	RIGID GALVANIZED STEEL
RM	ROOM	RM	ROOM
ROW	RIGHT-OF-WAY	RP	RADIUS POINT
RP	RADIUS POINT	RPM	REVOLUTIONS PER MINUTE
RPM	REVOLUTIONS PER MINUTE	RTU	REMOTE TERMINAL UNIT
RVAT	REDUCED VOLTAGE AUTOTRANSFORMER	RVAT	REDUCED VOLTAGE AUTOTRANSFORMER
RVNR	REDUCED VOLTAGE NON-REVERSING	R/W	RUNWAY, RIGHT-OF-WAY
R/W	RUNWAY, RIGHT-OF-WAY		
S	SOUTH, SEWER MANHOLE	S	SOUTH, SEWER MANHOLE
SA	SURGE ARRESTOR	SA	SURGE ARRESTOR
SC	SECTIONALIZING CABINET	SC	SECTIONALIZING CABINET
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION	SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCH	SCHEDULE	SCH	SCHEDULE
SD	SOFT DRAWN (COPPER), STORM DRAIN	SD	SOFT DRAWN (COPPER), STORM DRAIN
SEC	SECOND, SECONDARY	SEC	SECOND, SECONDARY
SECT	SECTION	SECT	SECTION
SF	SQUARE FOOT/FEET	SF	SQUARE FOOT/FEET
SHLD	SHIELD OR SHIELDED	SHLD	SHIELD OR SHIELDED
SHT	SHEET	SHT	SHEET
SI	SQUARE INCH/INCHES	SI	SQUARE INCH/INCHES
SIM	SIMILAR	SIM	SIMILAR
SK	SKETCH	SK	SKETCH
SOGM	SWITCH OPERATOR GROUND MAT	SOGM	SWITCH OPERATOR GROUND MAT
SP	SPACED, SPACING	SP	SPACED, SPACING
SPDT	SINGLE POLE DOUBLE THROW	SPDT	SINGLE POLE DOUBLE THROW
SPEC	SPECIFICATION(S)	SPEC	SPECIFICATION(S)
SPP	STEEL POWER POLE	SPP	STEEL POWER POLE
SQ	SQUARE	SQ	SQUARE
SS	SANITARY SEWER	SS	SANITARY SEWER
SSS	SWITCH SUPPORT STRUCTURE	SSS	SWITCH SUPPORT STRUCTURE
SSTL	STAINLESS STEEL	SSTL	STAINLESS STEEL
ST	STREET	ST	STREET
STA	STATION	STA	STATION
STD	STANDARD	STD	STANDARD
STEP	SOUTH TERMINAL EXPANSION PROJECT	STEP	SOUTH TERMINAL EXPANSION PROJECT
STL	STEEL	STL	STEEL
STIA	SEA-TAC INTERNATIONAL AIRPORT	STIA	SEA-TAC INTERNATIONAL AIRPORT
STM	STEAM	STM	STEAM
STR	STRUCTURAL	STR	STRUCTURAL
SUB	SUBSTITUTION	SUB	SUBSTITUTION
SUBSTA	SUBSTATION	SUBSTA	SUBSTATION
SUPT	SUPPORT	SUPT	SUPPORT
SV	SOLENOID VALVE, SWITCH VAULT	SV	SOLENOID VALVE, SWITCH VAULT
SVC	SERVICE	SVC	SERVICE
STR	STRUCTURAL	STR	STRUCTURAL
SURF	SURFACE	SURF	SURFACE
SW	SWITCH	SW	SWITCH
SWBD	SWITCHBOARD	SWBD	SWITCHBOARD



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	
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DATE:	
CHECKED/APPROVED BY:	

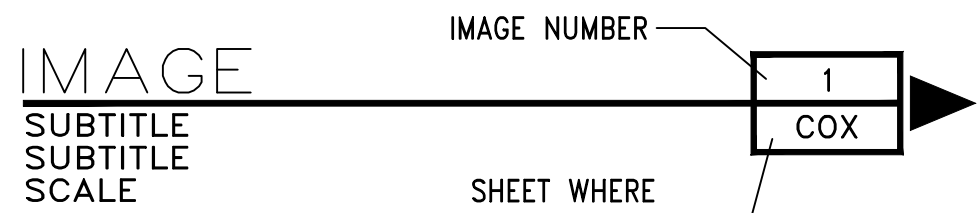
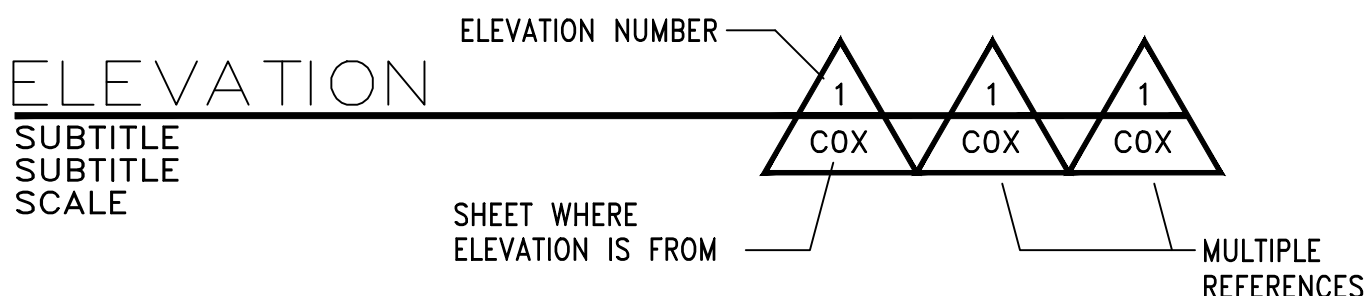
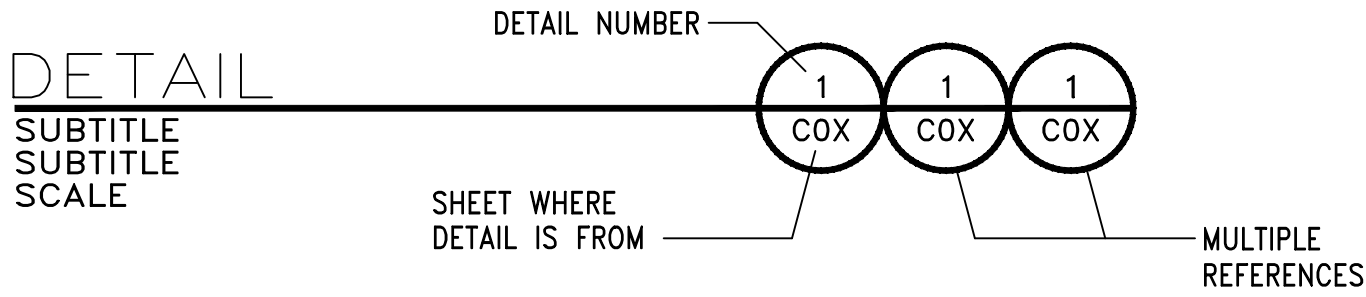
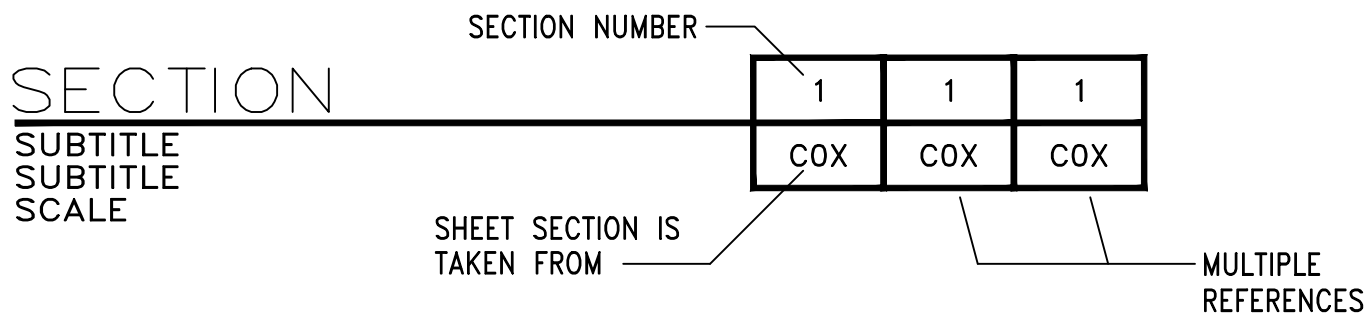
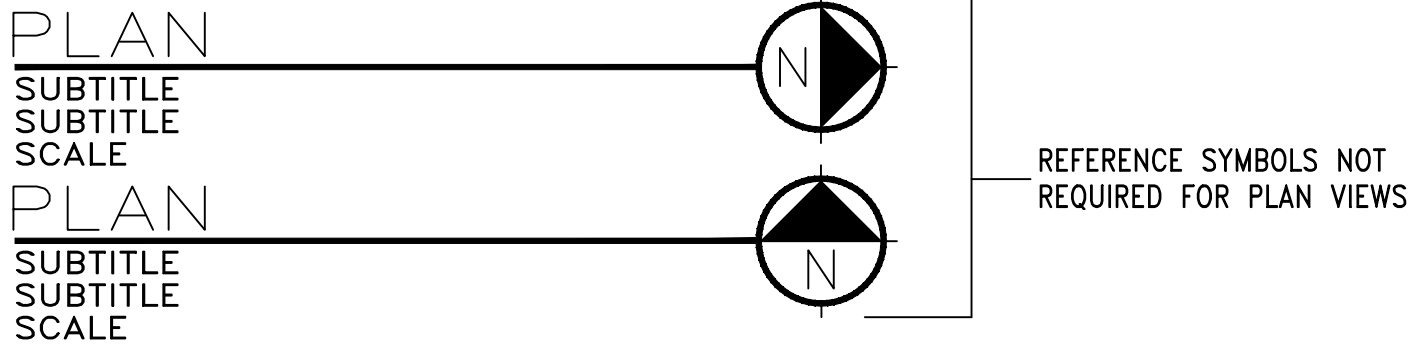
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PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **STANDARD ABBREVIATIONS AND REFERENCE SYMBOLS**

WORK PROJECT NO.

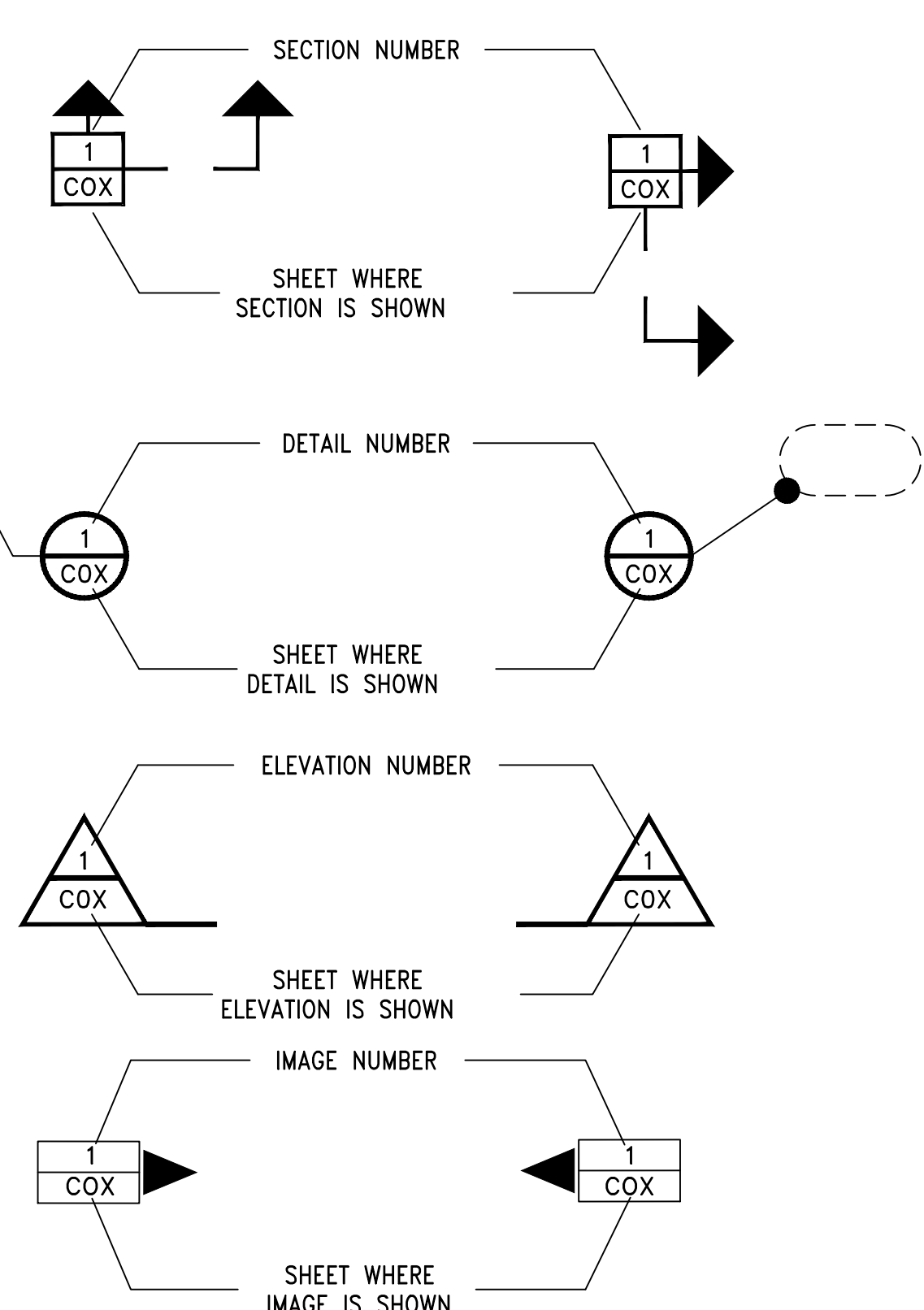
CONSULTANT'S NO.

PORT OF SEATTLE NO.
26 05 00 - G02













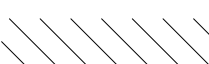



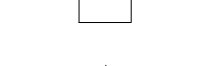








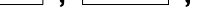
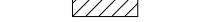











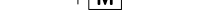
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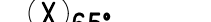
























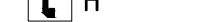


















REFERENCE SYMBOL



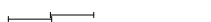






























\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION-AV-SSA\F&I ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV26\WORKING\DWG\265500-603.DWG, SAVED: 3/11/2025 4:22 PM, MZ8926, PLOTTED:4/7/2025 9:26 AM

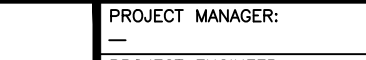

ELECTRICAL PLAN	
	EXPOSED CONDUIT OR CABLE
	CONDUIT (UNDERGROUND OR CONCEALED IN FLOOR, WALL, OR CEILING)
	EXPOSED GROUND WIRE
	BURIED GROUND WIRE
	LOW VOLTAGE WIRING
	EXISTING TO BE REMOVED
	CONDUIT OR CABLE DOWN
	CONDUIT OR CABLE UP
	CONDUIT OR CABLE CAPPED
	CABLE TRAY
	CABLE TRAY
	FLEXIBLE CONDUIT
	REMOVE OR DEMOLISH EQUIPMENT, CONDUIT, OR CABLE UNDER HATCH
	HAZARDOUS LOCATION PER NEC CHAPTER 5 DIVISION 1
	DIVISION 2
	UNCLASSIFIED
	HOME RUN – NUMBER OF CONDUCTORS AS INDICATED, SMALL HASH MARKS INDICATE PHASE CONDUCTORS, LARGER HASH MARKS INDICATES NEUTRAL, BACKSLASH INDICATES GROUND WIRE, BACKSLASH WITH DOT INDICATES ISOLATED GROUND, ALL UNMARKED CONDUIT RUNS ARE 3/4" CONDUIT WITH 2#12, 1#12G UNLESS NOTED OTHERWISE
	CONDUIT SEAL
	JUNCTION BOX
	PULLBOX
	HANDHOLE
	MANHOLE
	480Y/277V, 3Ø, 4W PANELBOARD
	208Y/120V, 3Ø, 4W PANELBOARD
	EQUIPMENT CABINET – TYPE AS NOTED
	TELEPHONE OUTLET – SUBSCRIPT INDICATES: A – COMPLIES WITH A.D.A. D – DESK MOUNTED P – PAY PHONE W – WALL MOUNTED
	COMPUTER/DATA OUTLET
	COMBINATION VOICE/DATA OUTLET
	INTERCOM STATION – SUBSCRIPT INDICATES: D – DESK MOUNTED STATION OUTLET M – MASTER STATION W – WALL MOUNTED STATION OUTLET
	MICROPHONE INPUT JACK
	AUXILIARY INPUT JACK
	AUDIO OUTPUT JACK
	VOLUME CONTROL
	RECEPTACLE OUTLET: SUBSCRIPT NUMBER INDICATES CIRCUIT GROUPING SUBSCRIPT LETTER INDICATES: GFI – GROUND FAULT CIRCUIT INTERRUPTER WP – WEATHERPROOF XP – EXPLOSION PROOF
	GROUNDING TYPE SINGLE RECEPTACLE
	GROUNDING TYPE DUPLEX RECEPTACLE
	GROUNDING TYPE DOUBLE DUPLEX RECEPTACLE
	CEILING MOUNTED DUPLEX RECEPTACLE
	SPLIT WIRED GROUNDING TYPE DUPLEX RECEPTACLE

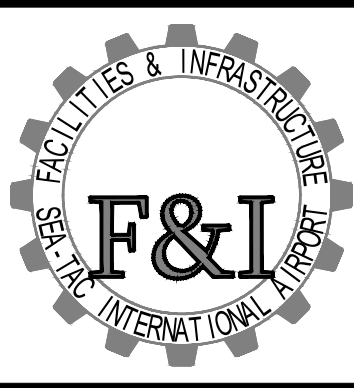
ELECTRICAL PLAN	
	SPECIAL PURPOSE RECEPTACLE – TYPE AS NOTED
	FLUSH FLOOR BOX WITH HINGED DEVICE COVER
	FLUSH FLOOR BOX WITH DEVICES AS SHOWN
	PEDESTAL MOUNTED DEVICES ON FLOOR BOX OR FLOOR DUCT
	POKE-THRU TYPE FITTING WITH DEVICES AS SHOWN
	FLUSH FLOOR COUPLING
	FLUSH FLOOR COUPLING WITH PEDESTAL TEL OUTLET
	GROUND CONNECTION
	GROUND ROD
	GROUND WELL
	EQUIPMENT CONNECTION
	MOTOR CONNECTION
	GENERATOR
	STARTER 3–POLE, NEMA SIZE 1 MINIMUM UNLESS NOTED OTHERWISE
	COMBINATION STARTER HP RATED, 3–POLE, NEMA STARTER SIZE 1 MINIMUM UNLESS NOTED OTHERWISE – MCP OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
	DISCONNECT SWITCH 3–POLE UNLESS NOTED OTHERWISE – OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
	CONTACTOR SUBSCRIPT INDICATES NUMBER OF POLES
	CIRCUIT BREAKER NUMBER INDICATES TRIP SETTING AND NUMBER OF POLES CURRENT LIMITING UNLESS OTHERWISE NOTED GFI – GROUND FAULT CIRCUIT INTERRUPTER ST – INDICATES SHUNT TRIP MO – MOTOR OPERATED
	TRANSDUCER
	POWER TRANSFORMER
	SOLENOID VALVE
	BATTERY
	MOTOR OPERATED VALVE
	THERMOSTAT
	PUSHBUTTON SWITCH – MOMENTARY CONTACT: P – INDICATES PILOT LIGHT
	POSITION SWITCH DIRECTLY ACTUATED, SPRING RETURN
	LIQUID LEVEL ACTUATED SWITCH: NC OPENS ON RISING LIQUID NO CLOSES ON FALLING LIQUID
	PRESSURE OR VACUUM ACTUATED SWITCH
	TEMPERATURE ACTUATED SWITCH
	FLOW ACTUATED SWITCH
	CLOCK
	CLOCK AND SPEAKER COMBINATION
	CEILING MOUNTED DOUBLE FACED CLOCK
	SPEAKER LOWER CASE LETTER INDICATES SWITCHING GROUP
	SPEAKER – CEILING RECESSED MOUNTED
	SPEAKER – CEILING SURFACE MOUNTED
	SPEAKER – WALL RECESSED MOUNTED
	SPEAKER – WALL SURFACE MOUNTED
	ALARM LIGHT/STROBE, INDICATING LIGHT TYPE AS NOTED LOWER CASE LETTER INDICATES SWITCHING GROUP A–AMBER; B–BLUE; G–GREEN; R–RED; W–WHITE

ELECTRICAL PLAN	
	ALARM BUZZER A–ALARM; F–FIRE; S–SECURITY
	ALARM CHIME A–ALARM; F–FIRE; S–SECURITY
	ALARM BELL A–ALARM; F–FIRE; S–SECURITY
	EMERGENCY SHUTDOWN SWITCH
	MANUAL PULL STATION
	ANNUNCIATOR
	CONTROL PANEL ESR ELEVATOR STATUS/RECALL FAC FIRE ALARM COMMUNICATOR FCP FIRE ALARM CONTROL PANEL FSA FIRE SYSTEM ANNUNCIATOR HCP HALON CONTROL PANEL HVA CONTROL PANEL FOR HVAC OR EXHAUST STAIRWELL PRESSURIZATION
	FLOW SWITCH CONNECTION
	TAMPER SWITCH CONNECTION
	FIRE OR EMERGENCY TELEPHONE STATION A – ACCESSIBLE J – JACK H – HANDSET
	HEAT DETECTOR R/F – COMB. RATE OF RISE AND FIXED TEMP. R/C – RATE COMPENSATION F – FIXED TEMPERATURE R – RATE OF RISE ONLY
	MAGNETIC DOOR HOLDER
	SMOKE DETECTOR P – PHOTOELECTRIC PRODUCTS OF COMBUSTION I – IONIZATION TYPE BT – BEAM TRANSMITTER BR – BEAM RECEIVER
	GAS DETECTOR FLAME DETECTOR
	ILLUMINATED EXIT SIGN – SINGLE FACE WITH EGRESS DIRECTION AS SHOWN
	ILLUMINATED EXIT SIGN – DOUBLE FACE WITH EGRESS DIRECTION FOR EACH FACE
	BATTERY POWERED EMERGENCY LIGHT NUMBER OF LAMPS AS SHOWN
	COMBINATION BATTERY POWERED EMERGENCY LIGHT AND ILLUMINATED EXIT SIGN
	LIGHTING FIXTURE ADJACENT NUMBER INDICATES CIRCUIT GROUPING LOWER CASE LETTER INDICATES SWITCHING GROUP
	SURFACE–MOUNTED 2x4 FLUORESCENT FIXTURE WITH JUNCTION BOX
	SURFACE–MOUNTED 1x4 FLUORESCENT FIXTURE WITH JUNCTION BOX
	SURFACE–MOUNTED 2x2 FLUORESCENT FIXTURE WITH JUNCTION BOX
	SURFACE–MOUNTED 2x4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	SURFACE–MOUNTED 1x4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	SURFACE–MOUNTED 2x2 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	RECESSED–MOUNTED 2x4 FLUORESCENT FIXTURE WITH JUNCTION BOX
	RECESSED–MOUNTED 1x4 FLUORESCENT FIXTURE WITH JUNCTION BOX
	RECESSED–MOUNTED 2x2 FLUORESCENT FIXTURE WITH JUNCTION BOX
	RECESSED–MOUNTED 2x4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	RECESSED–MOUNTED 1x4 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	RECESSED–MOUNTED 2x2 FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	PENDANT–MOUNTED FIXTURE – TYPE AS NOTED
	PENDANT–MOUNTED FIXTURE ON EMERGENCY CIRCUIT
	WALL–MOUNTED FLUORESCENT FIXTURE – TYPE AS NOTED

ELECTRICAL PLAN	
	STRIP FLUORESCENT FIXTURE – TYPE AS NOTED
	STRIP FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT
	STAGGERED STRIP FLUOR FIXTURE – TYPE AS NOTED
	CEILING–MOUNTED FIXTURE – TYPE AS NOTED
	CEILING–MOUNTED FIXTURE ON EMERGENCY CIRCUIT
	WALL–MOUNTED FIXTURE – TYPE AS NOTED
	WALL–MOUNTED FIXTURE ON EMERGENCY CIRCUIT
	WALL WASH FIXTURE – TYPE AS NOTED
	WALL WASH FIXTURE ON EMERGENCY CIRCUIT
	DIRECTIONAL LIGHTING FIXTURE – TYPE AS NOTED
	DIRECTIONAL LIGHTING FIXTURE ON EMERGENCY CIRCUIT
	TRACK LIGHT – TYPE AS NOTED – NUMBER OF HEADS AS SHOWN
	ILLUMINATION CONTROL STATION
	PHOTOCELL CONTROL
	THERMOSTAT
	PHOTOELECTRIC SENSOR
	NIGHT LIGHT
	SINGLE–POLE WALL SWITCH
	WALL SWITCH LOWER CASE LETTER INDICATES SWITCHING GROUP # INDICATES SUBSCRIPT INDICATES 2 2–POLE M – MANUAL MOTOR STARTER 3 3–WAY WP – WEATHERPROOF 4 4–WAY LV – LOW–VOLTAGE
	POLE–MOUNTED LIGHTING FIXTURE – TYPE AS NOTED NUMBER OF FIXTURES AS SHOWN
	EXTERIOR LANDSCAPE FIXTURE – TYPE AS NOTED
	EXTERIOR LANDSCAPE FIXTURE – ON EMERGENCY CIRCUIT
	EXTERIOR STEP LIGHTING FIXTURE – TYPE AS NOTED
	SUBSTATION LIGHT
	GROUND PIGTAIL
	WELDED GROUND CONNECTION
	SEPARABLE SPLICE
	NONSEPARABLE SPLICE
	FEEDER NUMBER
	SPARE CONDUIT
	FAULT INDICATOR

NOTE: NEW EQUIPMENT SHALL BE DRAWN IN BOLD LINES.
EXISTING EQUIPMENT SHALL BE DRAWN IN LIGHT LINES.

R E V I S I O N S											PROJECT MANAGER: ---		 MARITIME DIVISION PROJECT: F&I STANDARD DETAILS SHEET TITLE: ELECTRICAL PLAN AND SYMBOLS LEGEND	WORK PROJECT NO.
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D		PROJECT ENGINEER: ---	CONSULTANT'S NO.		
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2	03/01/2020	KDM	2020 F&I STANDARD DETAILS								DRAFTER: ---			
3	04/07/2025	MD8	2025 F&I STANDARD DETAILS								SCALE: N.T.S.			
											DATE: ---	PORT OF SEATTLE NO.		
											CHECKED/APPROVED BY: ---	26 05 00 - G03		



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE: N.T.S.
DATE:
CHECKED/APPROVED BY:

 MARITIME DIVISION	WORK PROJECT NO.
PROJECT: F&I STANDARD DETAILS	CONSULTANT'S NO.
SHEET TITLE: ELECTRICAL PLAN AND SYMBOLS LEGEND	PORT OF SEATTLE NO.
	26 05 00 - G03

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CONTROL DIAGRAM

	ALARM LIGHT/STROBE, INDICATING LIGHT – TYPE AS NOTED LOWER CASE LETTER INDICATES SWITCHING GROUP A-AMBER; B-BLUE; G-GREEN; R-RED; W-WHITE
	INDICATING INSTRUMENT: AM – AMMETER KWH – KILOWATT HOUR METER FM – FREQUENCY METER VARHM – VAR HOUR METER I – INTERLOCK VM – VOLTMETER KVA – KILOVOLT AMP METER
	INSTRUMENT SWITCH: AS – AMMETER SWITCH VS – VOLTMETER SWITCH SS – SYNCHRONIZING SWITCH SV – SUPERVISORY (LOCAL/REMOTE) SWITCH ATS – AUTOMATIC TRANSFER SWITCH 52CS – CIRCUIT BREAKER CONTROL SWITCH
	SOLENOID
	BATTERY
	CONTACTOR 3 POLE UNLESS NOTED OTHERWISE
	NORMALLY OPEN
	NORMALLY CLOSED
	TIME DELAY SWITCH: NORMALLY OPEN CONTACT CLOSSES AFTER TIME DELAY WHEN COIL IS ENERGIZED, OPENS INSTANTANEOUSLY WHEN DE-ENERGIZED
	NORMALLY CLOSED CONTACT OPENS AFTER TIME DELAY WHEN COIL IS ENERGIZED, CLOSSES INSTANTANEOUSLY WHEN DE-ENERGIZED
	NORMALLY OPEN CONTACT CLOSSES INSTANTANEOUSLY WHEN COIL IS ENERGIZED, OPENS AFTER TIME DELAY WHEN DE-ENERGIZED
	NORMALLY CLOSED CONTACT OPENS INSTANTANEOUSLY WHEN COIL IS ENERGIZED, CLOSSES AFTER TIME DELAY WHEN DE-ENERGIZED
	PUSHBUTTON SWITCH – MOMENTARY CONTACT: P – INDICATES PILOT LIGHT CIRCUIT CLOSING
	CIRCUIT OPENING
	LIMIT SWITCH DIRECTLY ACTUATED, SPRING RETURN: NORMALLY OPEN
	NORMALLY OPEN – HELD CLOSED
	NORMALLY CLOSED
	NORMALLY CLOSED – HELD OPEN
	RELAY COIL: CR – CONTROL RELAY M – MOTOR CONTACTOR TD – TIME DELAY RELAY UV – UNDER VOLTAGE RELAY NUMBER INDICATES UNIT NUMBER
	CONTACT, NORMALLY OPEN, CONTROLLED BY RELAY INDICATED
	CONTACT, NORMALLY CLOSED
	LIQUID LEVEL ACTUATED SWITCH: OPENS ON RISING LIQUID
	CLOSSES ON RISING LIQUID
	PRESSURE OR VACUUM ACTUATED SWITCH: OPENS ON RISING PRESSURE
	CLOSSES ON RISING PRESSURE
	TEMPERATURE ACTUATED SWITCH: OPENS ON RISING TEMPERATURE
	CLOSSES ON RISING TEMPERATURE
	FLOW ACTUATED SWITCH: OPENS ON INCREASE IN FLOW
	CLOSSES ON INCREASE IN FLOW
	TEST SWITCH
	TEST SWITCH, SHORTING TYPE

ONE-LINE DIAGRAM

	CONDUIT/CABLE/WIRING
	REMOVE OR DEMOLISH EQUIPMENT, CONDUIT, OR CABLE UNDER HATCH.
	GROUND CONNECTION
	GROUND WELL
	SURGE ARRESTORS
	MEDIUM VOLTAGE CABLE TERMINATION
	PRIMARY FUSED CUTOOUT SWITCH
	ELECTRICALLY OPERATED SWITCH
	GROUP OPERATED SWITCH – VERTICAL BREAK WITH MANUAL OPERATOR MECHANISM
	SEPARABLE CONNECTOR
	FUSE WITH RATING
	RESISTOR
	MOV SURGE PROTECTION
	MOTOR THERMAL OVERLOADS (3) UNLESS NOTED OTHERWISE
	EQUIPMENT CONNECTION
	MOTOR CONNECTION
	GENERATOR
	POWER TRANSFORMER
	DELTA
	WYE, SOLIDLY GROUNDDED NEUTRAL
	CURRENT TRANSFORMER RATIO AND QUANTITY AS INDICATED
	POTENTIAL TRANSFORMER – QUANTITY AS INDICATED
	MICROPROCESSOR CONTROLLED MONITOR SEE NOTES FOR FUNCTIONS
	CAPACITOR BANK
	TERMINAL BLOCK
	CABLE SPLICE, 3 SINGLE CONDUCTORS UNLESS OTHERWISE NOTED
	DISCONNECT SWITCH 3-POLE UNLESS NOTED OTHERWISE
	WITH OVERCURRENT PROTECTION AS REQUIRED BY EQUIPMENT MANUFACTURER OR AS NOTED
	DRAWOUT AC TYPE CIRCUIT BREAKER, MEDIUM VOLTAGE UNLESS OTHERWISE INDICATED.
	DRAWOUT AC TYPE CIRCUIT BREAKER (600V OR BELOW)
	CIRCUIT BREAKER NUMBER INDICATES TRIP SETTING AND NUMBER OF POLES ST – INDICATES SHUNT TRIP
	ANSI DEVICE 25 – SYNCHRONIZING DEVICE 27 – UNDERVOLTAGE RELAY 32 – DIRECTIONAL POWER RELAY 50 – INSTANTANEOUS OVERCURRENT RELAY 51 – AC TIME OVERCURRENT RELAY 59 – OVERVOLTAGE RELAY 62BF – BREAKER FAILURE RELAY 64 – GROUND PROTECTIVE RELAY 83 – AUTOMATIC TRANSFER RELAY 86 – LOCKOUT RELAY 86BFA – LOCKOUT ON BUS A FEEDER BREAKER FAILURE 86BFB – LOCKOUT ON BUS B FEEDER BREAKER FAILURE 87 – DIFFERENTIAL PROTECTIVE RELAY
	CIRCUIT BREAKER WITH GROUND FAULT PROTECTION NUMBER INDICATES TRIP SETTING AND NUMBER OF POLES CL – INDICATES CURRENT LIMITING ST – INDICATES SHUNT TRIP

ONE-LINE DIAGRAM

	MOTOR OPERATED CIRCUIT BREAKER NUMBER INDICATES TRIP SETTING AND NUMBER OF POLES
	CIRCUIT BREAKER WITH EXTERNAL GROUND FAULT RELAY AND CT'S
	SWITCH WITH SHUNT TRIP AND EXTERNAL GROUND FAULT RELAY AND CT'S
	CURRENT LIMITING CIRCUIT BREAKER WITH FUSES
	KIRK-KEY INTERLOCK
	MOTOR OPERATED VALVE
	3-POSITION SELECTOR SWITCH HAND-OFF-AUTOMATIC
	2-POSITION SELECTOR SWITCH
	ON-OFF SELECTOR SWITCH
	EQUIPMENT BUSHING WELL WITH RATING IN AMPS
	LOAD INTERRUPTING SWITCH WITH INTEGRAL GROUND POSITION
	TRANSDUCER
	6-WAY PMI W/ 4 FAULT INTERRUPTORS(*) AND 2 KIRK-KEYED LOAD INTERRUPTORS. ALL SWITCHES AND INTERRUPTORS ARE 3-POLE, GANG-OPERATED, UNLESS OTHERWISE SHOWN ON THE DRAWINGS
	REPRESENTATION OF ROOM OR FACILITY ENCLOSING THE EQUIPMENT SHOWN
	MEDIUM VOLTAGE DUPLEX SWITCH AIR INSULATED 3-POLE
	MEDIUM VOLTAGE, VAC PAC SWITCH, MEDIUM VOLTAGE, 3-POLE, 3-WAY, 2-WAYS SWITCHED
	MEDIUM VOLTAGE VAC PAC, 3-POLE, 4-WAY SWITCH
	MEDIUM VOLTAGE OIL INSULATED, 3-POLE, TWO POSITION SWITCH
	MEDIUM VOLTAGE, AIR INSULATED, 3-POLE SWITCH

GENERAL NOTES:

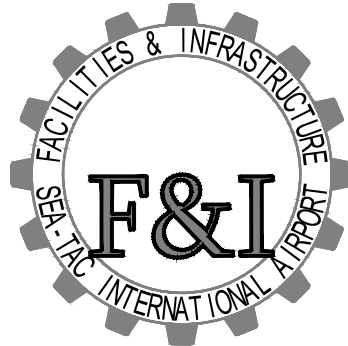
- ALL CONTACTS ARE SHOWN IN THE DE-ENERGIZED (SHELF POSITION).
- ABBREVIATIONS OTHER THAN SHOWN PER ANSI/ASME Y1.1.
- NEW EQUIPMENT SHALL BE DRAWN IN BOLD LINES. EXISTING EQUIPMENT SHALL BE DRAWN IN LIGHT LINES.
- ALL DETAILS AND DIMENSIONS ASSOCIATED WITH THESE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE PERFORMING WORK THAT RELIES ON THIS INFORMATION. DESIGN TOLERANCES SHALL BE ALLOWED TO ENABLE WORK TO PROCEED WITHOUT DUE FRIVOLOUS DESIGN CHANGES FOR MINOR RELOCATIONS TO UN-ANTICIPATED FIELD CONDITIONS. THESE DESIGN TOLERANCES SHALL BE + OR - 5 % (OR AS ALLOWED BY THE SPECIFIC DESIGN ENGINEERING FIRM) IN ANY DIRECTION OR CONFIGURATION. THE CONTRACTOR SHALL INCLUDE ALL DESIGN TOLERANCE RELATIONS AND MINOR CHANGES ON THE AS BUILT DRAWINGS.
- STANDARD POS AVIATION ABBREVIATIONS AND SYMBOLS ARE SHOWN ON THE PRECEEDING DRAWINGS AND COLUMNS. PROJECT SPECIFIC ABBREVIATIONS AND SYMBOLS ARE SHOWN BELOW.

PROJECT SPECIFIC ABBREVIATIONS AND SYMBOLS

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REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MD8	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
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SEA-TAC INTERNATIONAL AIRPORT
PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **ELECTRICAL DIAGRAM AND SYMBOLS LEGEND**

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

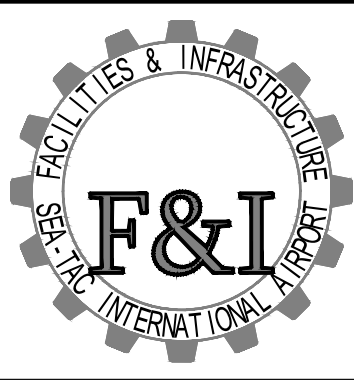
26 05 00 - G04

\\SEATTLEINTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10-STANDARDS\02_CAD STANDARDS\01_DIV26\WORKING\DWG\260513-01.DWG -SAVED: 3/13/2025 1:05 PM MZB266 PLOTTED:4/7/2025 9:26 AM

EPR, 105C, TAPE SHIELD, 133% INSULATION, COPPER, THREE CONDUCTORS PER FEEDER										
CONDUCTOR SIZE	GROUND SIZE (1)	APPROX. O.D. INCHES (2)	APPROX. WEIGHT LBS/1000' (2)	AMPACITY IN DUCT (3)	MIN. BENDING RADII INCHES (4)	CONDUIT SIZE (5)	JAM RATIO (6)	PERCENT FILL (7)	MAX PULLING TENSION LBS (8)	MAX SIDEWALL PRESSURE LB-FT
BICC CABLE										
2 AWG	6 AWG	1.01	685	115	12.1	6	5.94	8.6%	1,060	500
2/0 AWG	4 AWG	1.13	979	165	13.6	6	5.31	10.8%	2,130	500
4/0 AWG	2 AWG	1.23	1299	205	14.8	6	4.88	13.0%	3,380	500
350 KCMIL	4/0 AWG	1.41	1875	265	16.9	6	4.26	16.9%	5,600	500
500 KCMIL	4/0 AWG	1.53	2440	310	18.4	6	3.92	19.9%	6,500	500
750 KCMIL (9)	4/0 AWG	1.72	3378	375	20.6	6	3.49	25.0%	6,500	500
KERITE CABLE										
2 AWG	6 AWG	1.06	725	115	12.7	6	5.66	9.5%	1,062	675
2/0 AWG	4 AWG	1.19	1021	165	14.3	6	5.04	11.9%	2,130	675
4/0 AWG	2 AWG	1.29	1344	205	15.5	6	4.65	14.2%	3,386	675
350 KCMIL	4/0 AWG	1.47	1916	265	17.6	6	4.08	18.4%	5,600	675
500 KCMIL	4/0 AWG	1.60	2478	310	19.2	6	3.75	21.5%	8,000	675
750 KCMIL (9)	4/0 AWG	1.87	3533	375	22.4	6	3.21	29.5%	12,000	675
OKONITE CABLE										
2 AWG	6 AWG	1.00	670	115	12.0	6	6.00	8.4%	1,062	500
2/0 AWG	4 AWG	1.11	955	165	13.3	6	5.41	10.4%	2,130	500
4/0 AWG	2 AWG	1.21	1265	205	14.5	6	4.96	12.5%	3,386	500
350 KCMIL	4/0 AWG	1.37	1810	265	16.4	6	4.38	16.0%	5,600	500
500 KCMIL	4/0 AWG	1.49	2355	310	17.9	6	4.03	18.8%	8,000	500
750 KCMIL (9)	4/0 AWG	1.73	3360	375	20.8	6	3.47	25.3%	10,000	500
2 AWG	6 AWG	NOT RECOMMENDED, CONSIDER TRIPLEX -->				4	4.00	19.0%		
2/0 AWG	4 AWG					4	3.60	23.4%		
4/0 AWG	2 AWG					4	3.31	28.2%		
350 KCMIL	4/0 AWG					4	2.92	36.0%		

- NOTES:
- (1) BARE COPPER FOR STEEL OR PVC CONDUIT. INSULATED WIRE FOR ALUMINUM CONDUIT.
- (2) BASED ON BICC UNIBLEND POWER CABLE P/N 17031-130200, -135200, -135400, -136200, -136500, -137000; KERITE POWER CABLE TYPE MV-105 CAT. NO. 102C15-C4400, 121C15-, 141C15-, 135C15-, 150C15-, 175C15-; OKONITE TYPE MV-105 133% INSULATION CABLE CAT # 115-23-3111, -3117, -3121, -3127, -3131, -3135.
- (3) 2002 NEC TABLE 310.77 AND FIGURE 310.60 DETAIL 3, 30" MAX. TO TOP OF DUCT, 7-1/2" CENTERS, 6 CIRCUITS.
- (4) 12 X CABLE OD PER 2002 NEC 300.34 FOR SHIELDED CONDUCTORS
- (5) 6 INCH DUCT STANDARD FOR MAIN DUCTBANKS. 4 INCH DUCT STANDARD FOR LOAD SPECIFIC FEEDERS <200A.
- (6) CONDUIT ID/CABLE OD. 2.8 TO 3.2 = CRITICAL AREA TO BE AVOIDED
- (7) BARE GROUND CONDUCTOR ASSUMED.
- (8) T = 0.008 X 2 CONDUCTORS (CRADLED POSITION ASSUMED) X CIRCULAR MILLS. ALL MANUFACTURER'S USE SOME VARIATION OF THIS FORMULA. BICC'S VALUES ARE FROM A TABLE. OKONITE LIMITS MAXIMUM TENSION TO 10,000 LBS. SIDEWALL PRESSURE IS USUALLY THE LIMITING FACTOR.
- (9) 750KCMIL TO BE USED ON AN EXCEPTION BASIS ONLY

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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:
PROJECT ENGINEER:
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **STANDARD STIA 12.47KV FEEDER AND DUCT SIZES**

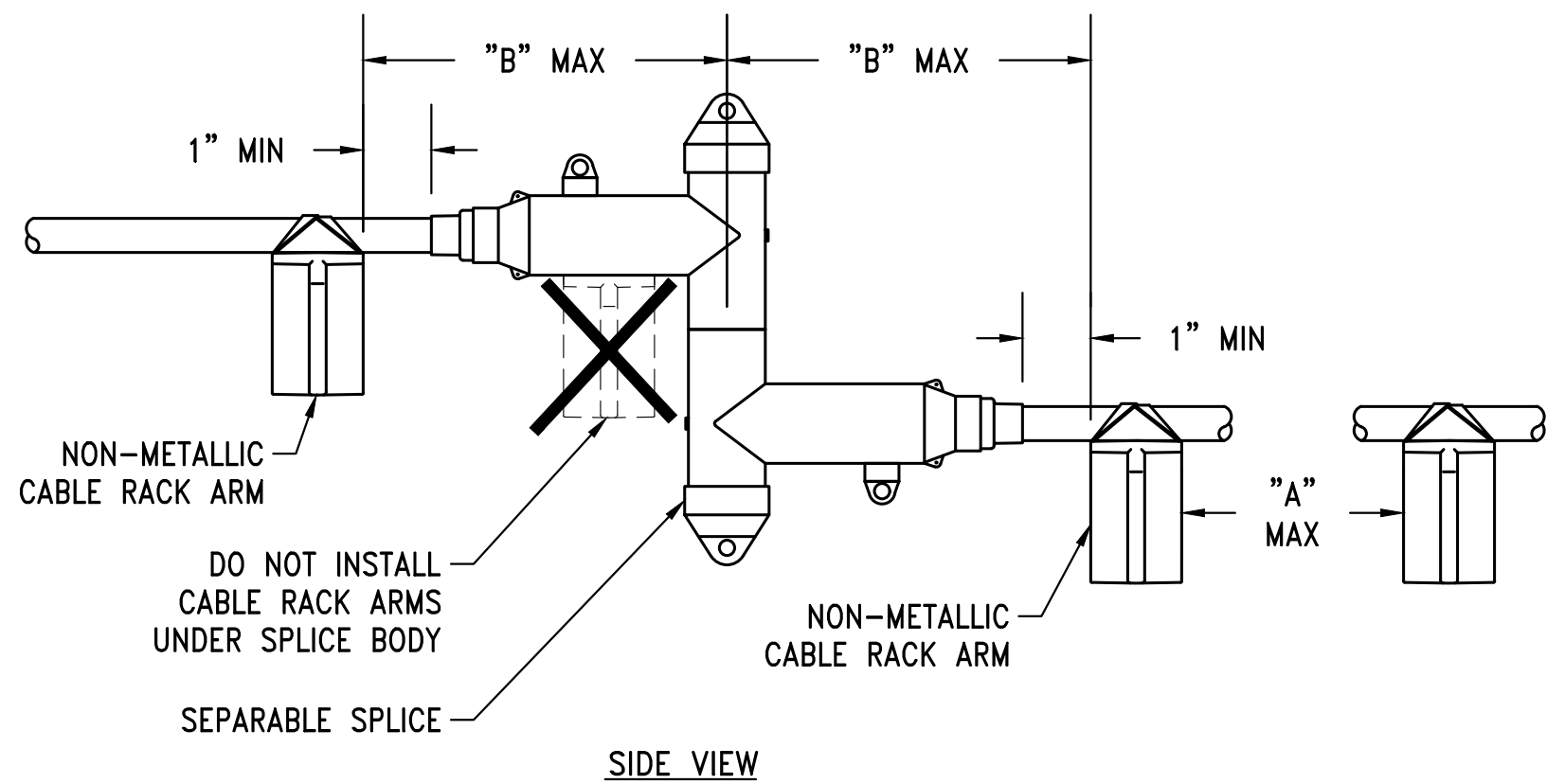
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 13 - 01

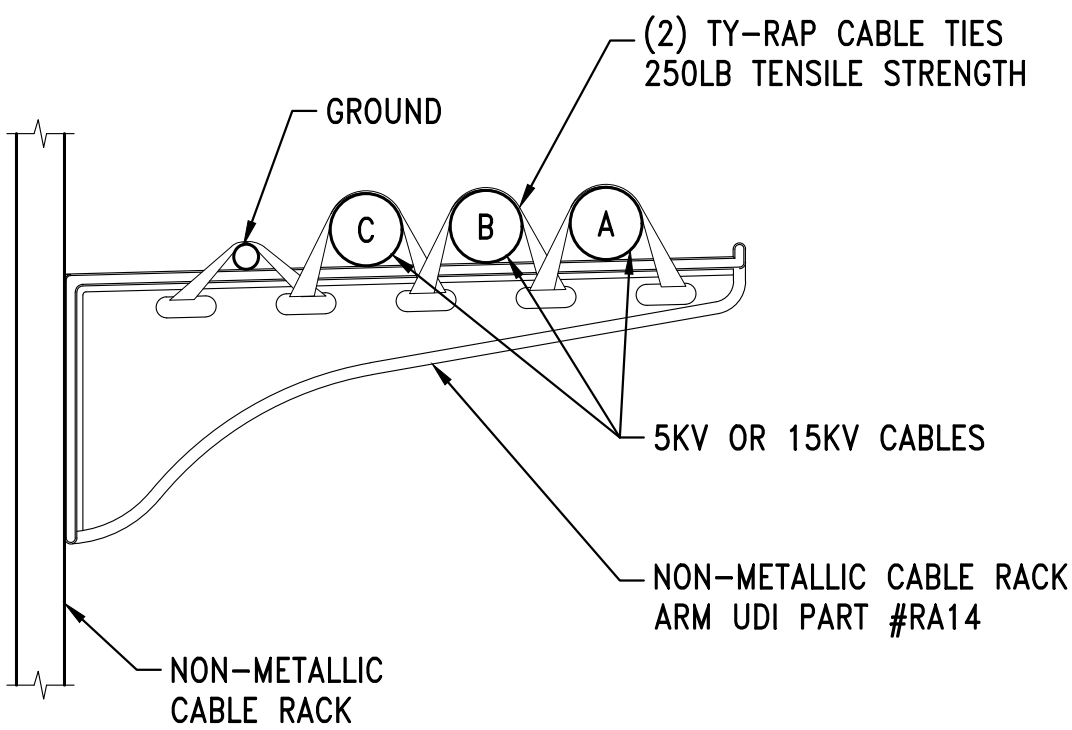
\\\\SEATTLE\\INTERNAL\\LOCAL\\PORT\\AVIATION\\AVIATION\\AV-ISO\\F&I\\ELECTRICAL\\10-STANDARDS\\02_CAD STANDARDS\\01_DIV25\\WORKING\\DWG\\260513-02.DWG - SAVED: 3/13/2025 12:34 PM MZ8926 PLOTTED:4/7/2025 9:26 AM



DETAIL

PROPER METHOD TO RACK
HAMMERHEAD SEPARABLE SPLICES
HALF SIZE SCALE: 3/4"=1'-0"

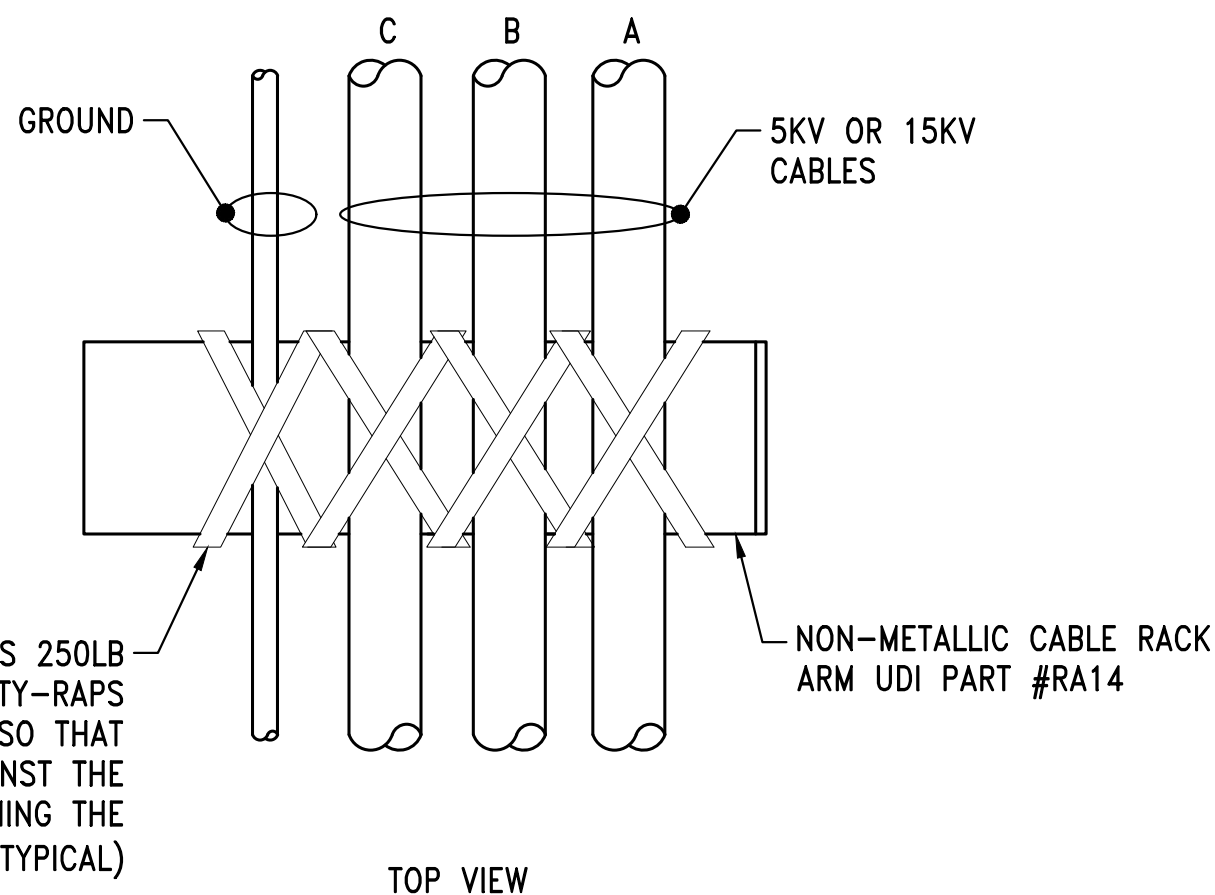
1
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DETAIL

CABLE RACK DETAIL
HALF SIZE SCALE: 1 1/2"=1'-0"

2
—



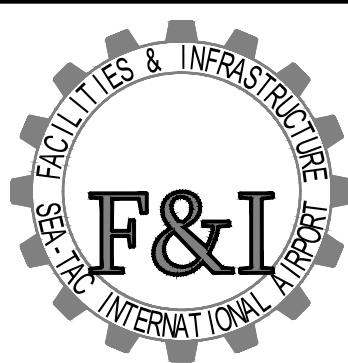
GENERAL NOTES:

1. SEE GROUNDING, LABELING, AND RACK DETAILS FOR RELATED REQUIREMENTS.
2. SEE SPECIFICATION 260513 FOR SPLICE ASSEMBLY REQUIREMENTS.

CABLE SIZE	RACK SPACING	
	"A" IN FEET	"B" IN FEET
2/0	4.5	3.0
4/0	4.0	3.0
350	3.0	3.0
500	2.5	2.5
750	2.0	2.0

TABLE VALUES APPLY TO 5KV AND
15KV TYPE MV-105 CABLE ONLY

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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



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Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **PROPER SPLICE ORIENTATION AND CABLE RACK SPACING**

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

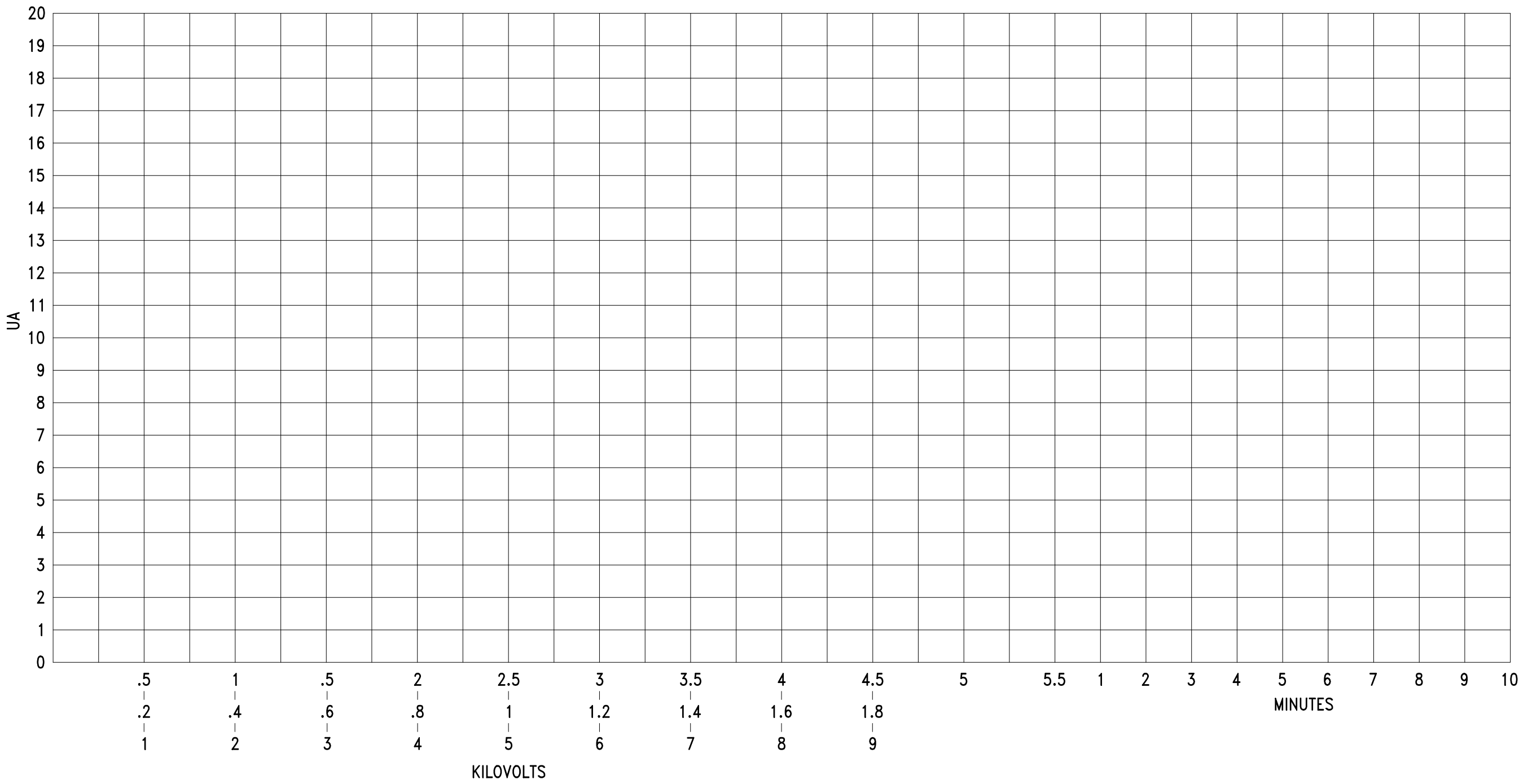
26 05 13 - 02

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MEDIUM VOLTAGE CABLE INSULATION TEST DATA SHEET

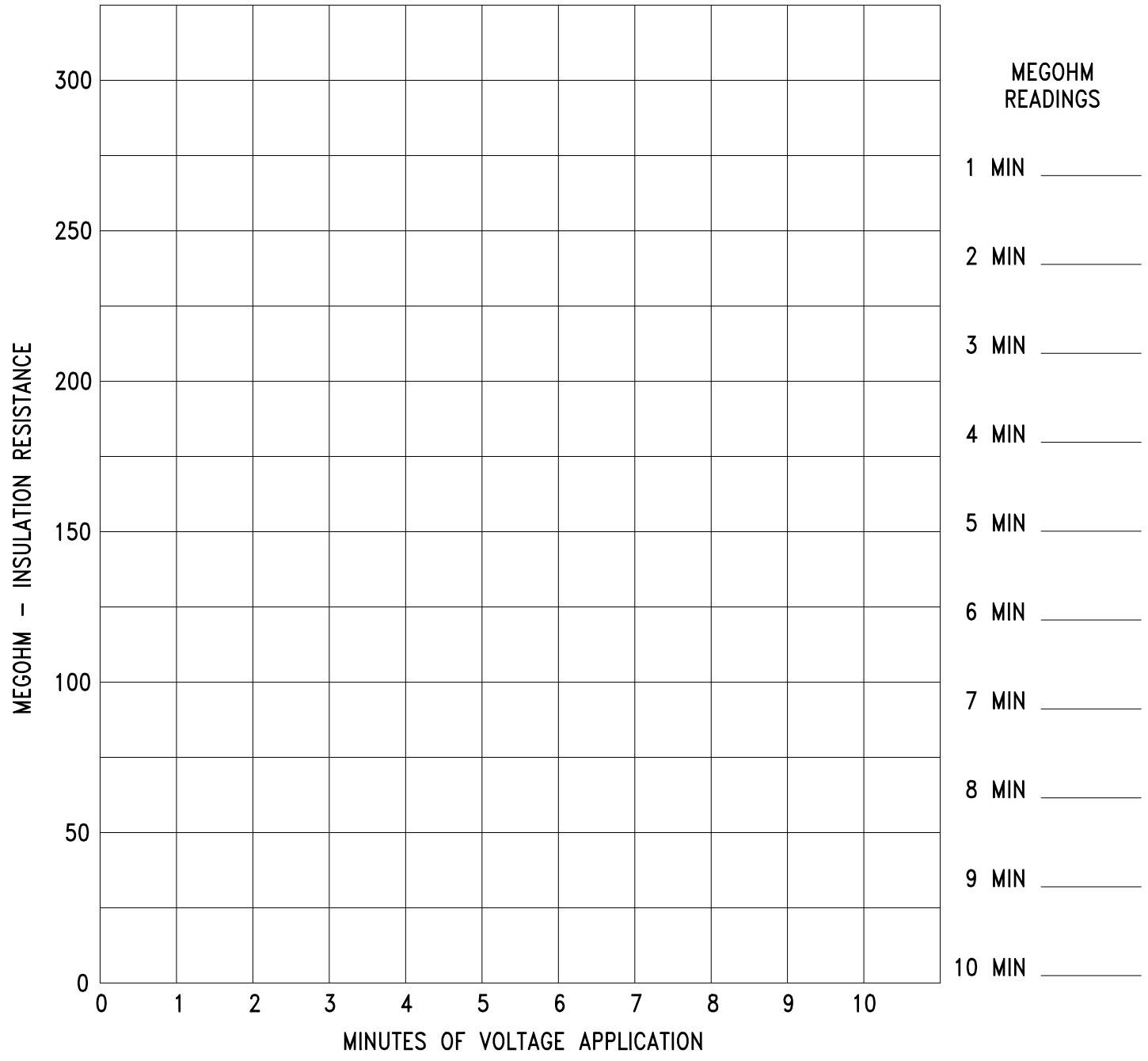
PROJECT: _____ DATE: _____ CIRCUIT NO. _____

D.C. DIELECTRIC ABSORPTION TEST

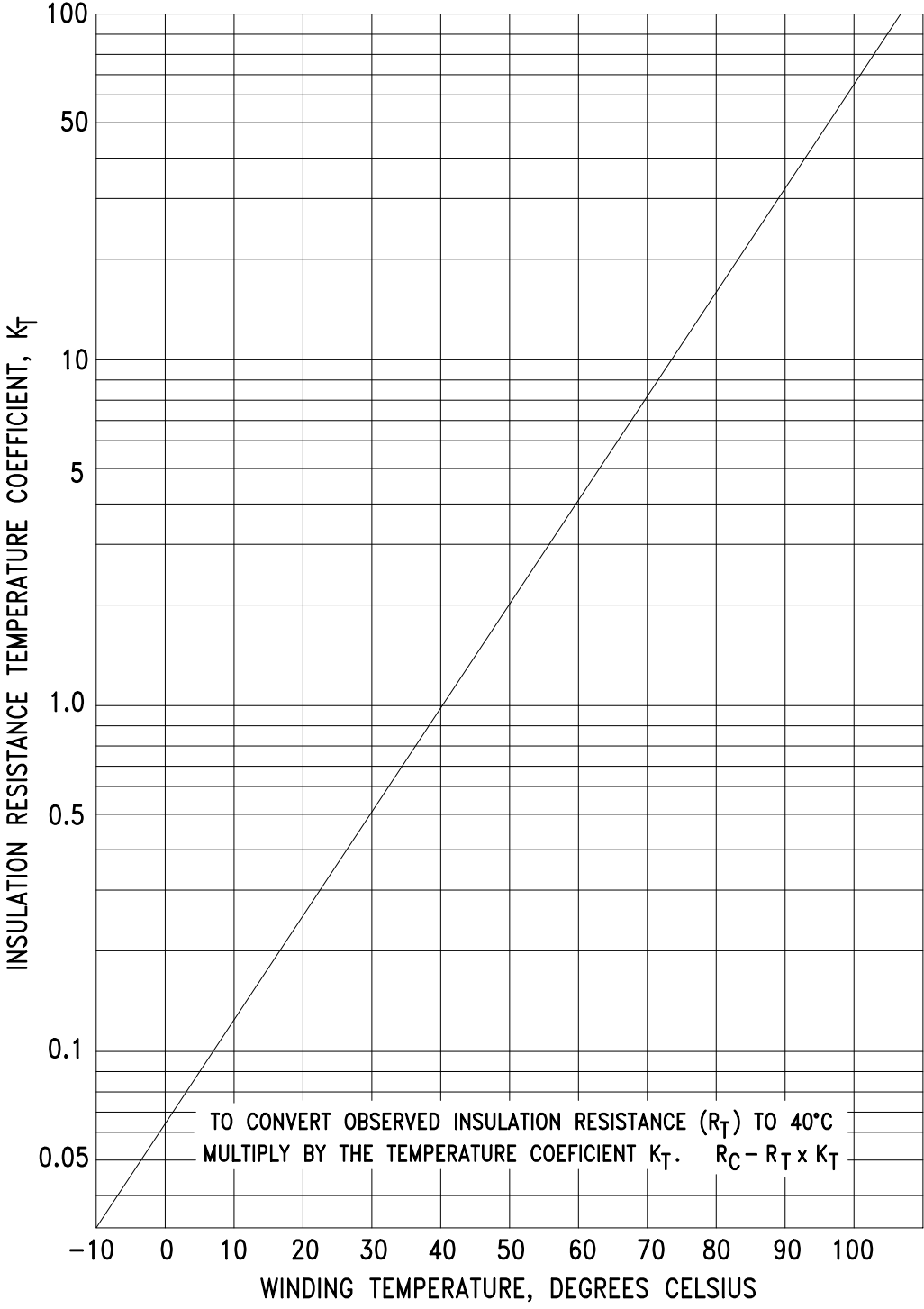


POLARIZATION INDEX TEST

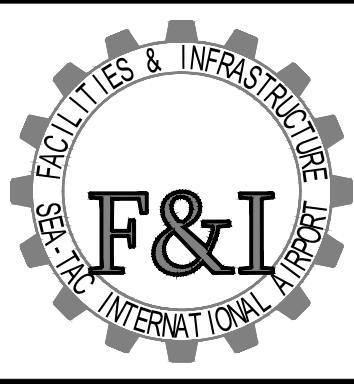
POLARIZATION INDEX GRAPH



APPROXIMATE INSULATION RESISTANCE VARIATION WITH TEMPERATURE GRAPH



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NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



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N.T.S.	_____
DATE:	_____
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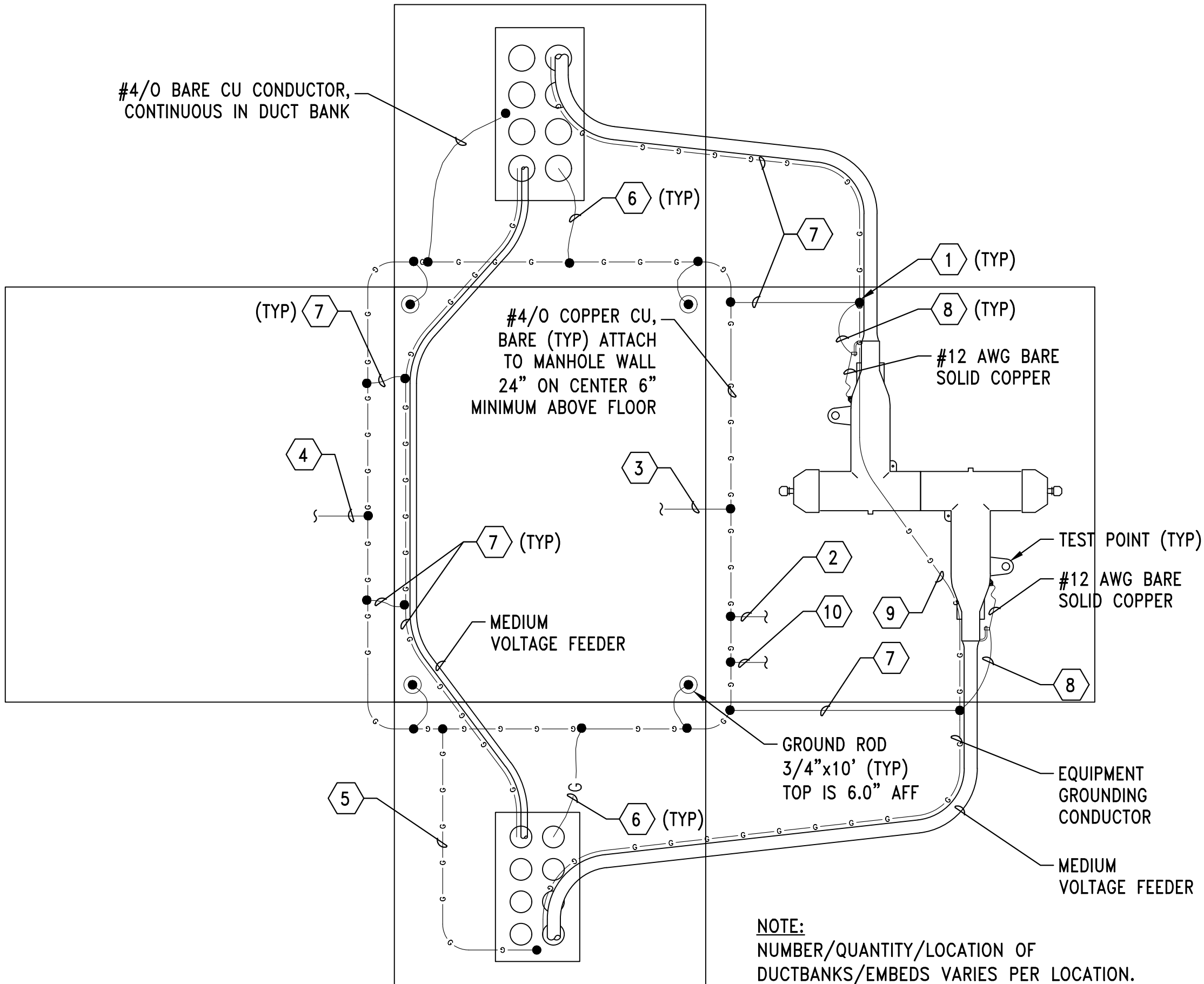
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **MEDIUM VOLTAGE CABLE INSULATION TEST DATA SHEET**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 13 - 03

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DETAIL

VAULT GROUNDING PLAN
SCALE: NTS

1

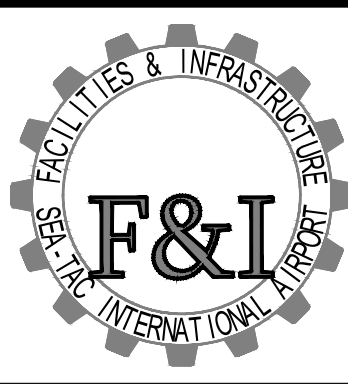
GENERAL NOTES:

1. ALL GROUND CONNECTIONS SHALL BE MADE USING COPPER ALLOY BURNDY HY-GROUND COMPRESSION CONNECTIONS OR APPROVED EQUAL ONLY. EXOTHERMIC AND SPLIT BOLT CONNECTIONS ARE NOT ALLOWED.
2. FASTEN ALL EXPOSED COPPER GROUND CONDUCTORS TO WALL USING NYLON STRAPS.
3. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.

KEYED NOTES:

- 1 WHERE GROUND CONDUCTOR ENDS ARE EXPOSED, WRAP WITH TAPE TO COVER SHARP POINTS ON CABLE.
- 2 #2 STRANDED UP TO CAST IRON MANHOLE COVER RING.
- 3 #2 DOWN TO GRATING ON SUMP (USED BOLTED CONNECTION) IF METALLIC.
- 4 EXTEND #4/0 GROUNDS UP TO EQUIPMENT ABOVE AND BOND TO GROUND BUS.
- 5 PROVIDE #4/0 GROUND FROM DUCT BANK GROUND TO GROUND RING.
- 6 IF NO DUCT BANK GROUND IS PRESENT, INSTALL DUCT BANK GROUND IN EMPTY CONDUIT. BOND THE DUCT BANK GROUNDS TO THE MANHOLE GROUNDING ELECTRODE SYSTEM.
- 7 ROUTE EQUIPMENT GROUNDING CONDUCTOR WITH FEEDER CONDUCTORS. INSTALL TWO TAPS OF EQUAL SIZE TO THE EQUIPMENT GROUND CONDUCTOR FROM EQUIPMENT GROUND CONDUCTOR TO GROUNDING ELECTRODE SYSTEM, EACH NEAR THE ENTRY AND EXIT POINTS.
- 8 CONNECT #8 DRAIN WIRE TO EQUIPMENT GROUND CONDUCTOR AND BOND EQUIPMENT GROUND CONDUCTOR TO GROUNDING ELECTRODE SYSTEM FOR EACH CONNECTOR.
- 9 ROUTE EQUIPMENT GROUND CONDUCTOR BEHIND PHASE CONDUCTORS. TY-RAP TO RACK ARM BEHIND SPLICE.
- 10 #2 GROUND TO LADDER IF METALLIC.

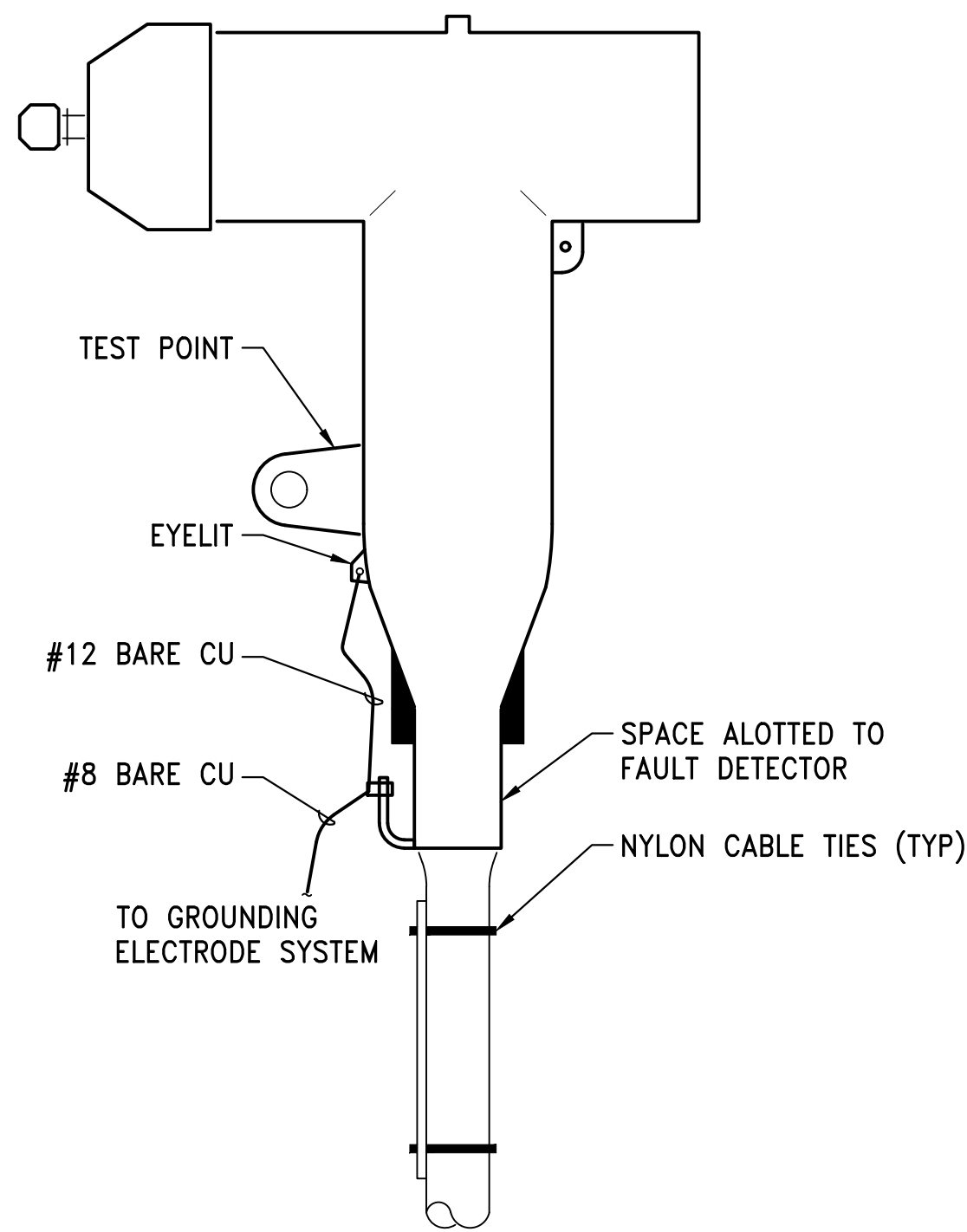
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1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



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Port of Seattle SEA-TAC INTERNATIONAL AIRPORT PROJECT: F&I STANDARD DETAILS SHEET TITLE: GROUND DETAILS VAULT GROUNDING	WORK PROJECT NO.
	CONSULTANT'S NO.
	PORT OF SEATTLE NO.
	26 05 26 - 01

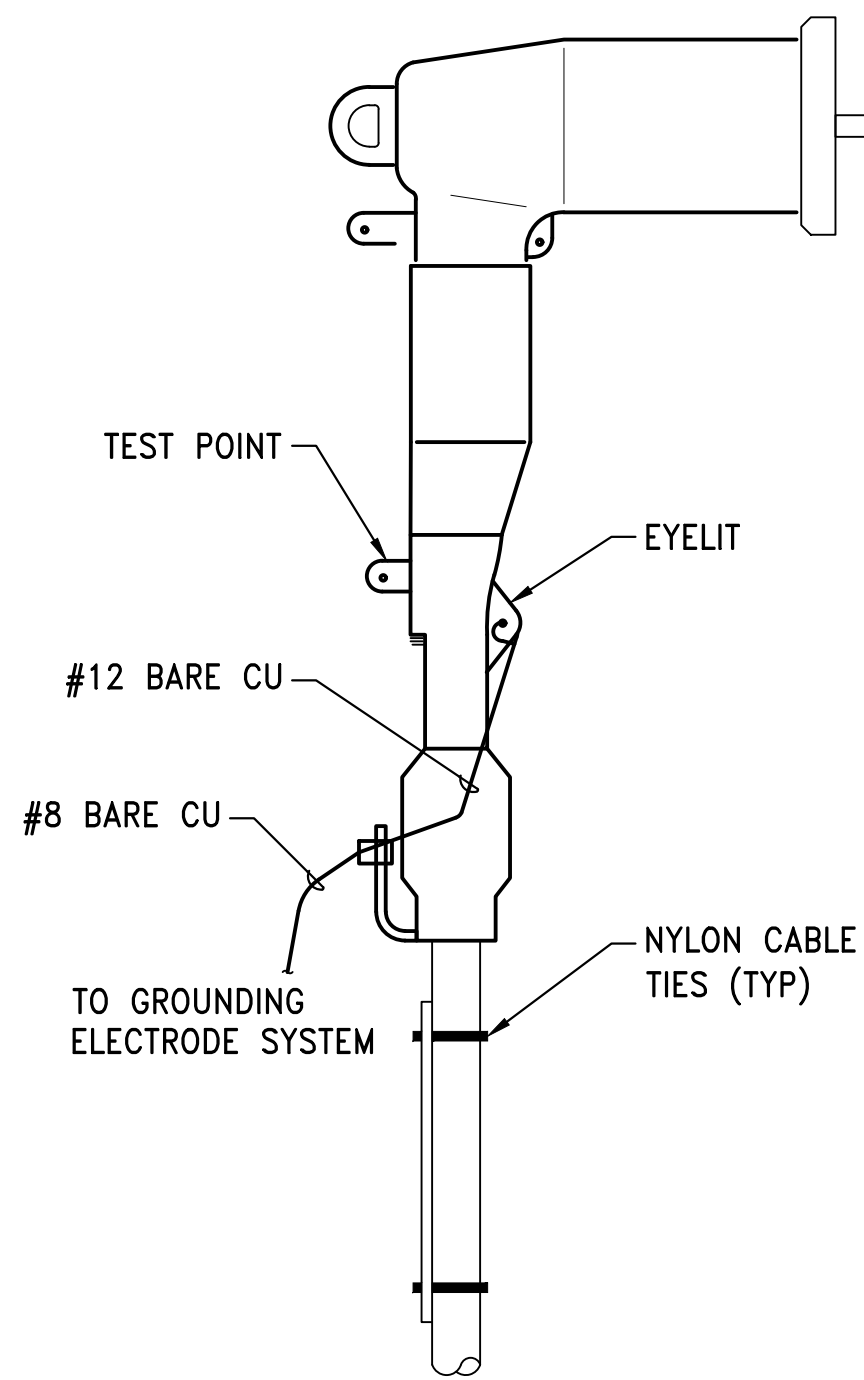
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\10-STANDARDS\01-DIV26-WORKING\DWG\260526-02.DWG - SAVED: 3/13/2025 10:22 AM MZ8926 PLOTTED:4/7/2025 9:26 AM



DETAIL

600A ELBOW TERMINATION
LABELING DIAGRAM
SCALE: NTS

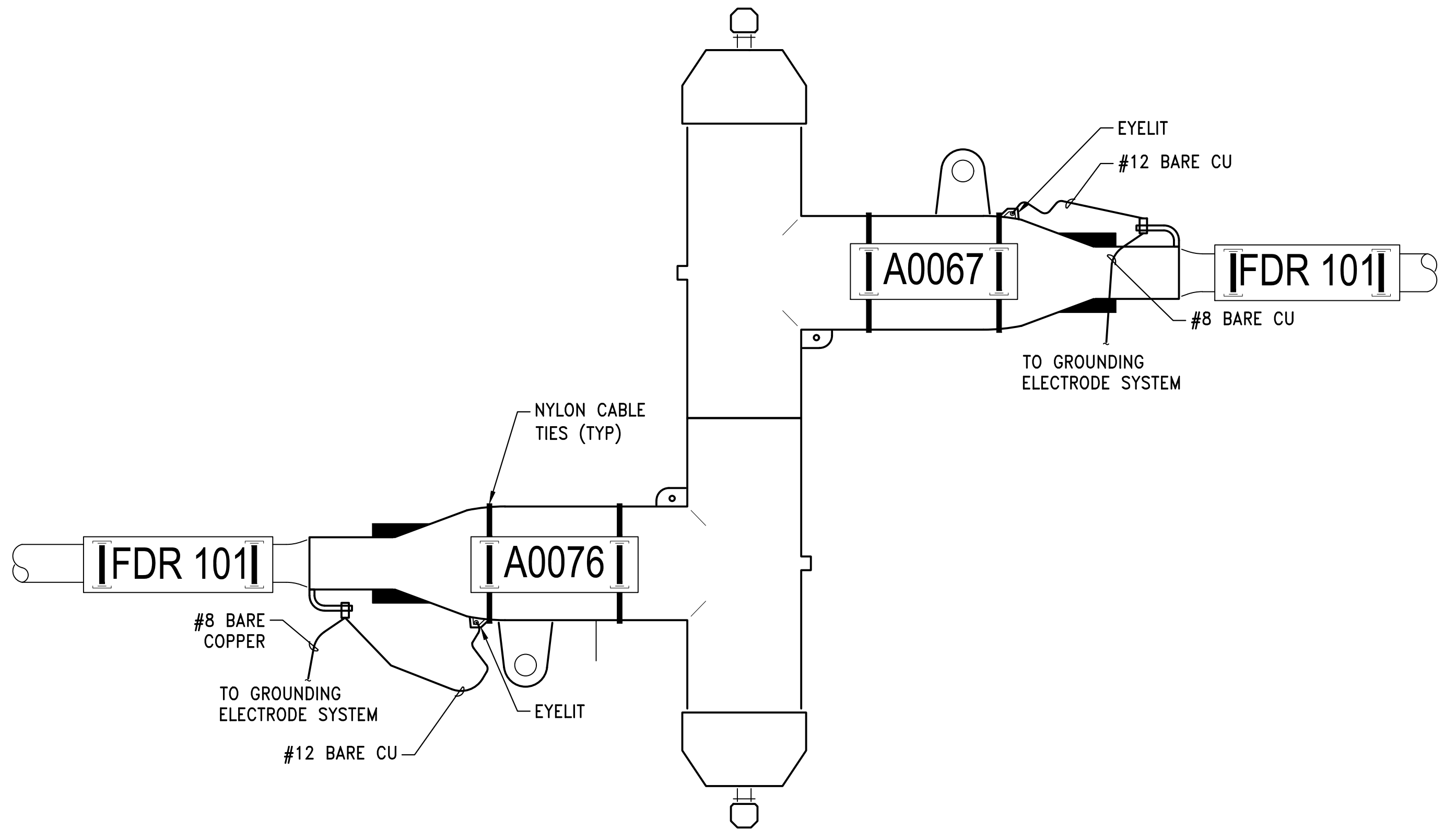
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DETAIL

200A ELBOW TERMINATION
LABELING DIAGRAM
SCALE: NTS

2
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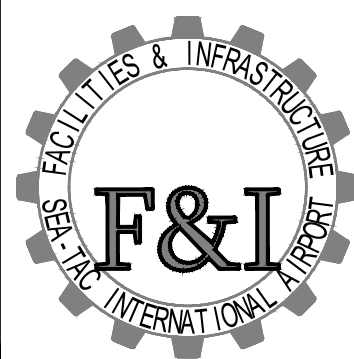


DETAIL

600A ELBOW SPLICE
LABELING DIAGRAM
SCALE: NTS

3
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R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



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PROJECT ENGINEER:	—
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Port of Seattle

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **PROPER SPLICE ORIENTATION AND CABLE RACK SPACING**

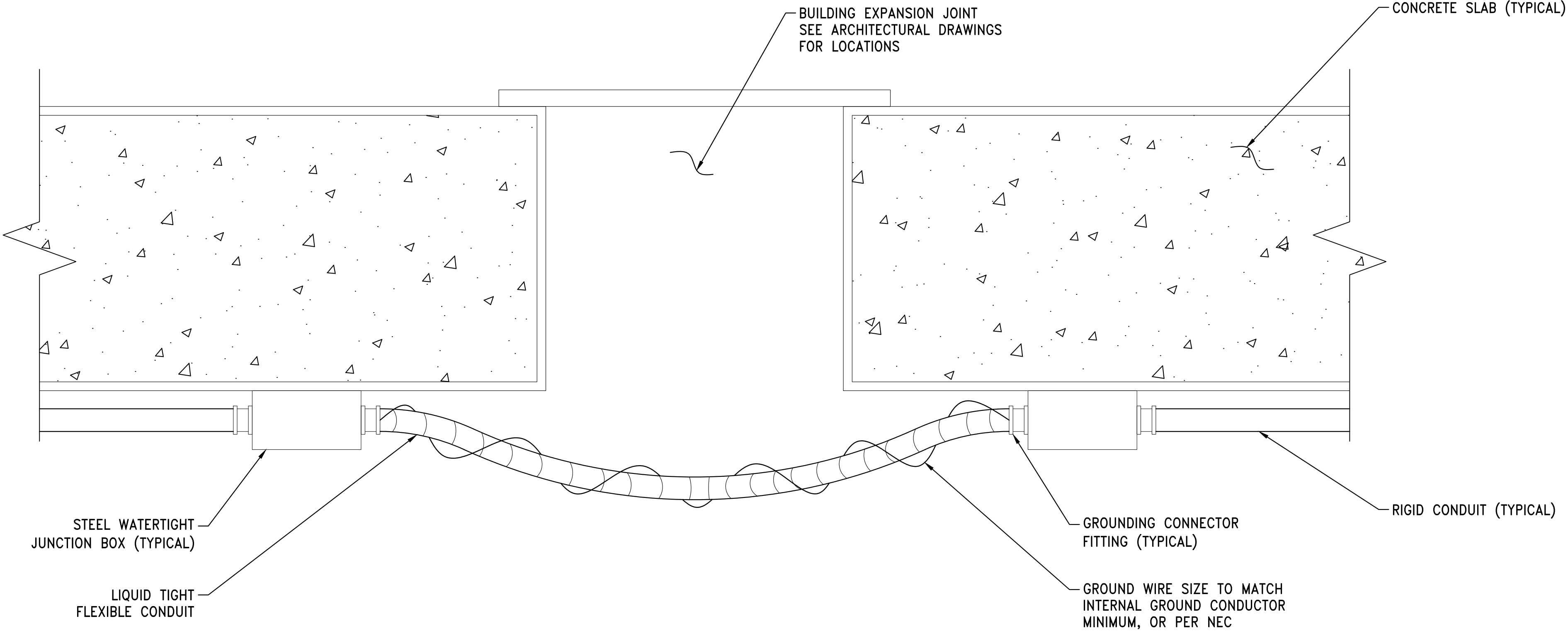
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 26 - 02

NOTE:
PROVIDE SUFFICIENT SLACK IN ALL CONDUCTORS AND FLEXIBLE CONDUIT CROSSING EXPANSION JOINTS TO ALLOW FOR STRUCTURE EXPANTION/CONTRACTION. COORDINATE REQUIREMENTS WITH POS RESIDENT ENGINEER.



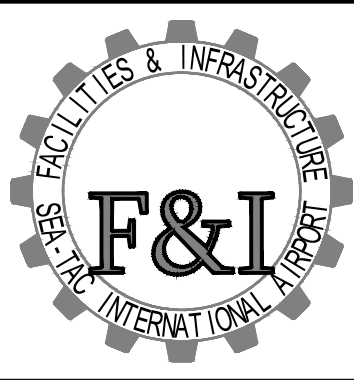
DETAIL
EXPANSION JOINT CONDUIT
GROUNDING DETAIL
SCALE: NTS

1

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\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\10-STANDARDS\01_DIV26_WORKING\DWG\260526-04.DWG:SAVED: 3/13/2025 11:05 AM MZ8926 PLOTTED:4/7/2025 9:26 AM

R E V I S I O N S									
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1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
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**Port of Seattle**

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **GROUNDING DETAIL EXPANSION JOINT CONDUIT**

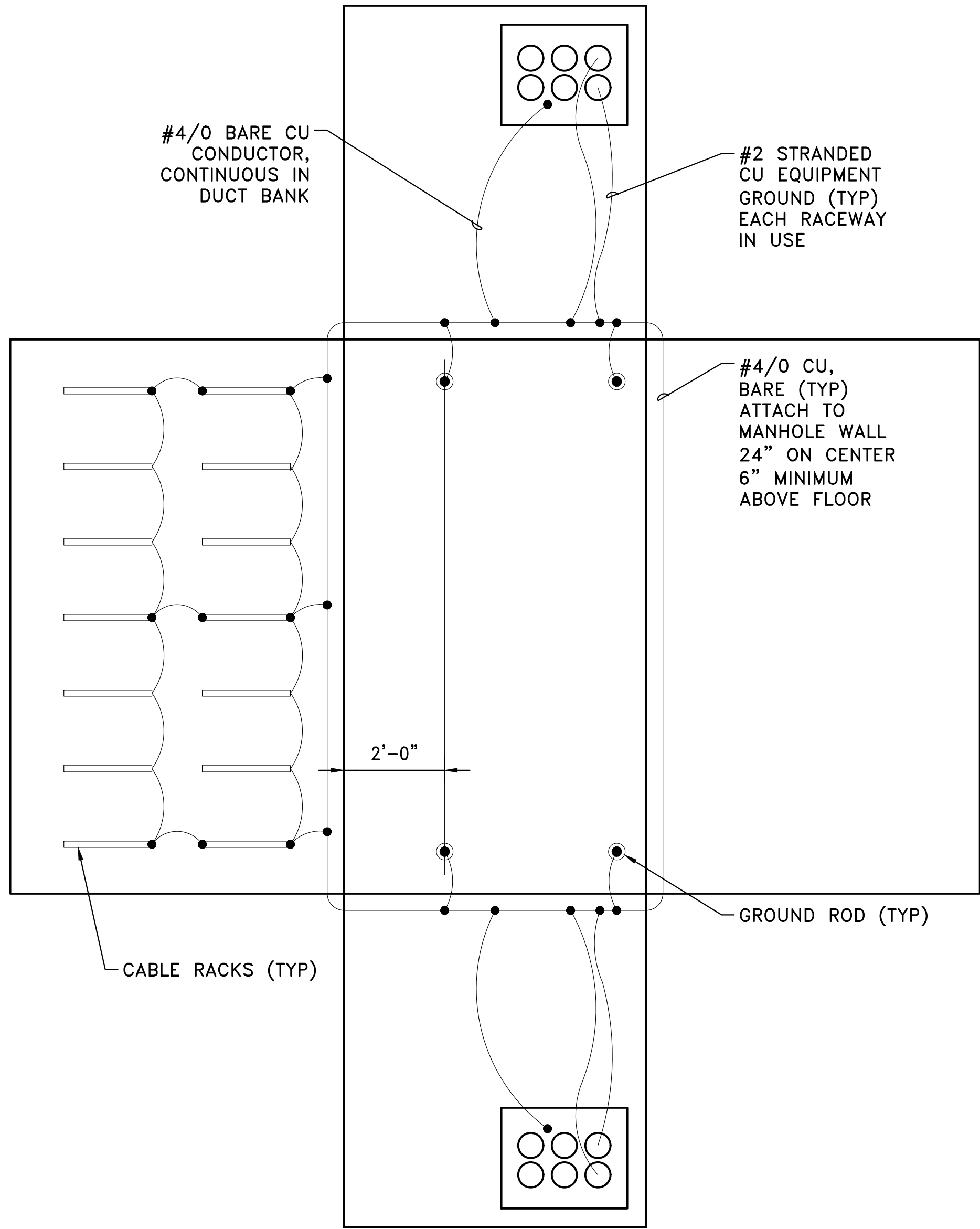
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CONSULTANT'S NO.

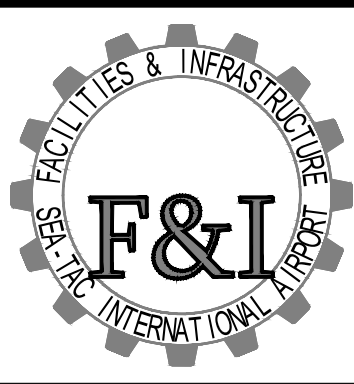
PORT OF SEATTLE NO.

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R E V I S I O N S									
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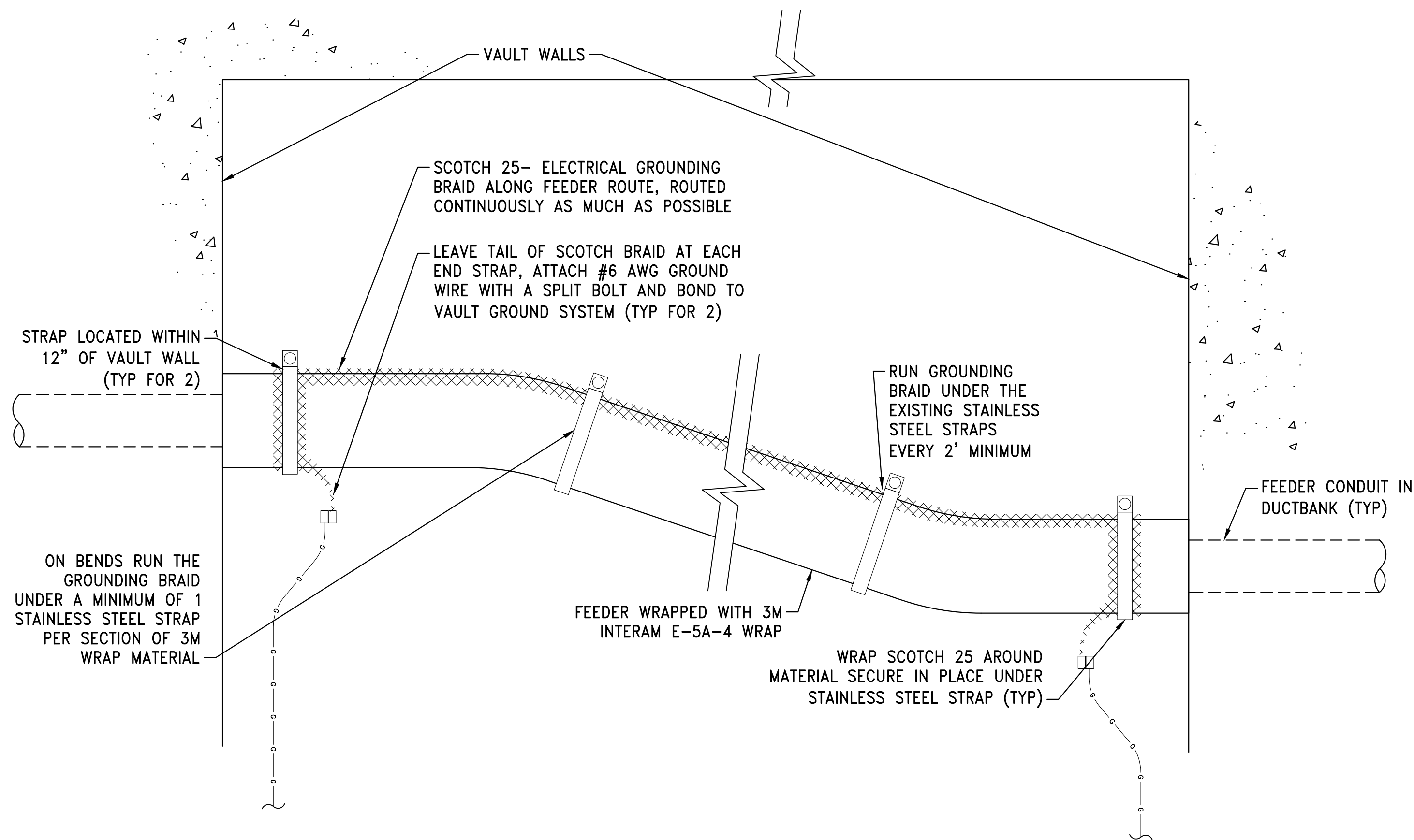
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

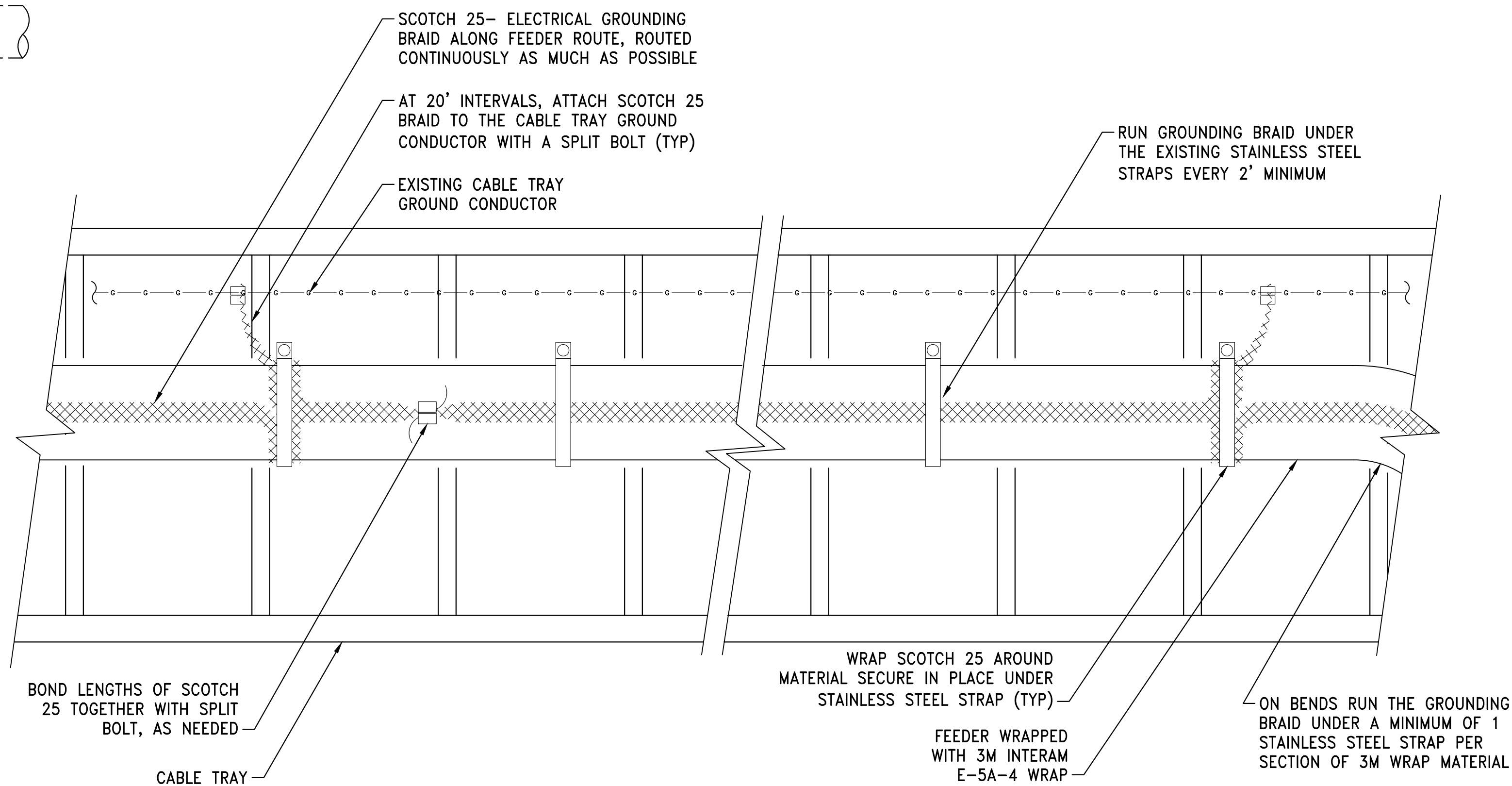
SHEET TITLE: **GROUNDING DETAIL MANHOLE**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 26 - 05

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV26-WORKING\DWG\260526-06.DWG - SAVED: 3/13/2025 11:18 AM MZB926 PLOTTED:4/7/2025 9:27 AM

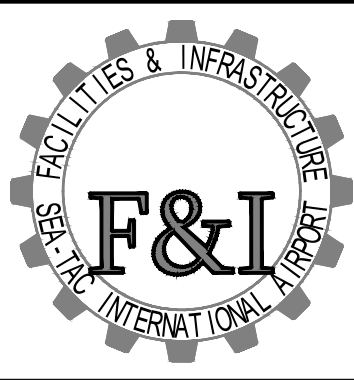


3M INTERAM E-5A-4 GROUNDING
TYPICAL FOR CV02, CV07, CV08, T-9, CV09, CV10 AND CV11




3M INTERAM E-5A-4 GROUNDING FOR CV01 (CABLE TRAY)

REVISIONS									
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DATE:	
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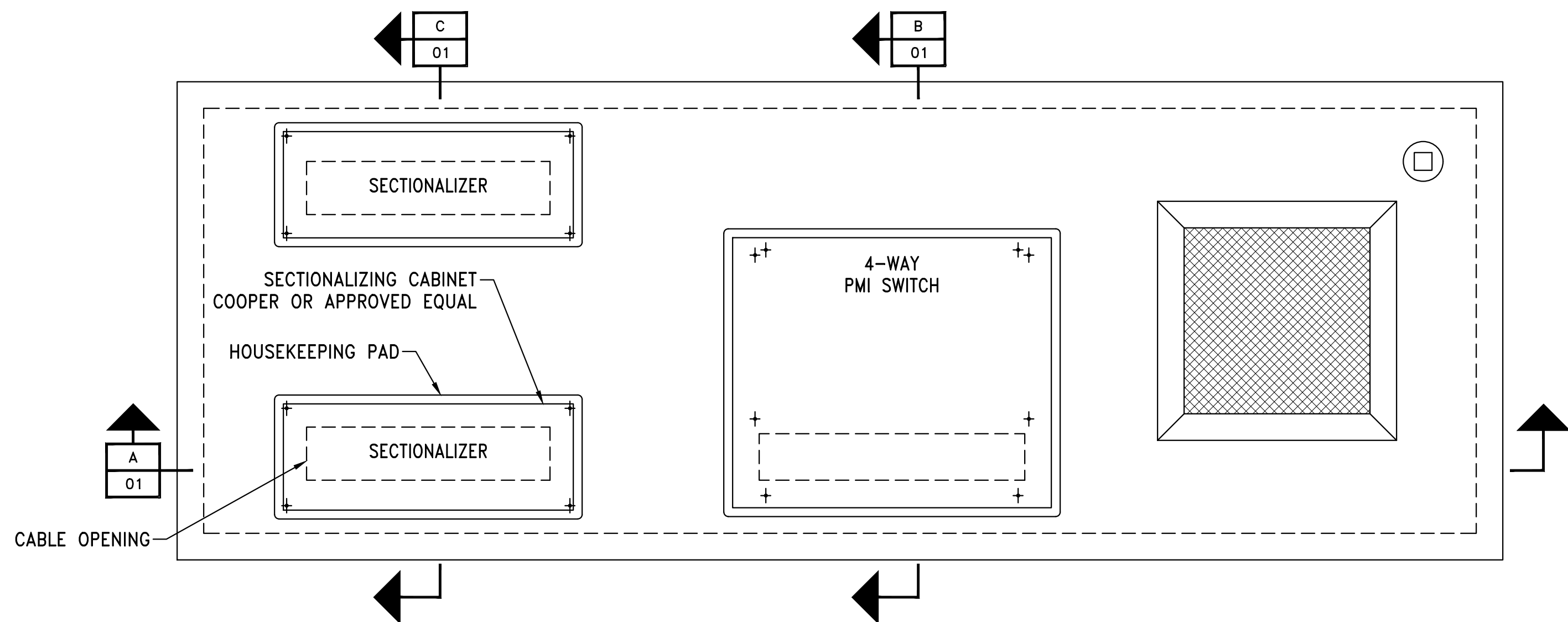
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **GROUNDING DETAILS CABLE VAULT CABLE SUPPORT AND MANHOLE DETAILS**

WORK PROJECT NO.	
CONSULTANT'S NO.	
PORT OF SEATTLE NO.	26 05 26 - 06

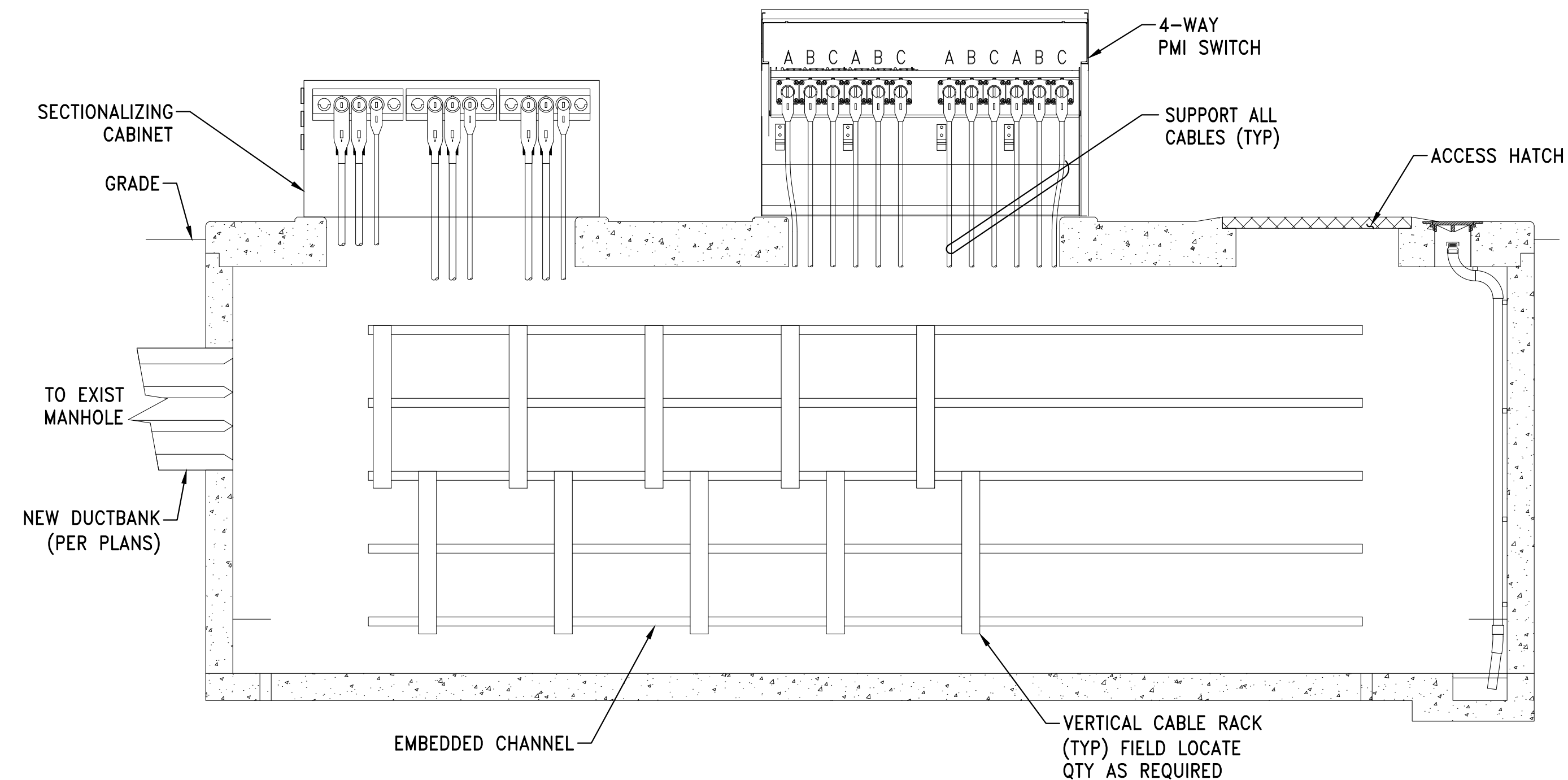
\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV26-WORKING\DWG\265545-01.DWG - SAVED: 3/14/2025 8:24 PM - MZB926 PLOTTED: 4/7/2025 9:27 AM



DETAIL

TYPICAL SWITCH VAULT
EQUIPMENT LAYOUT
SCALE: NTS

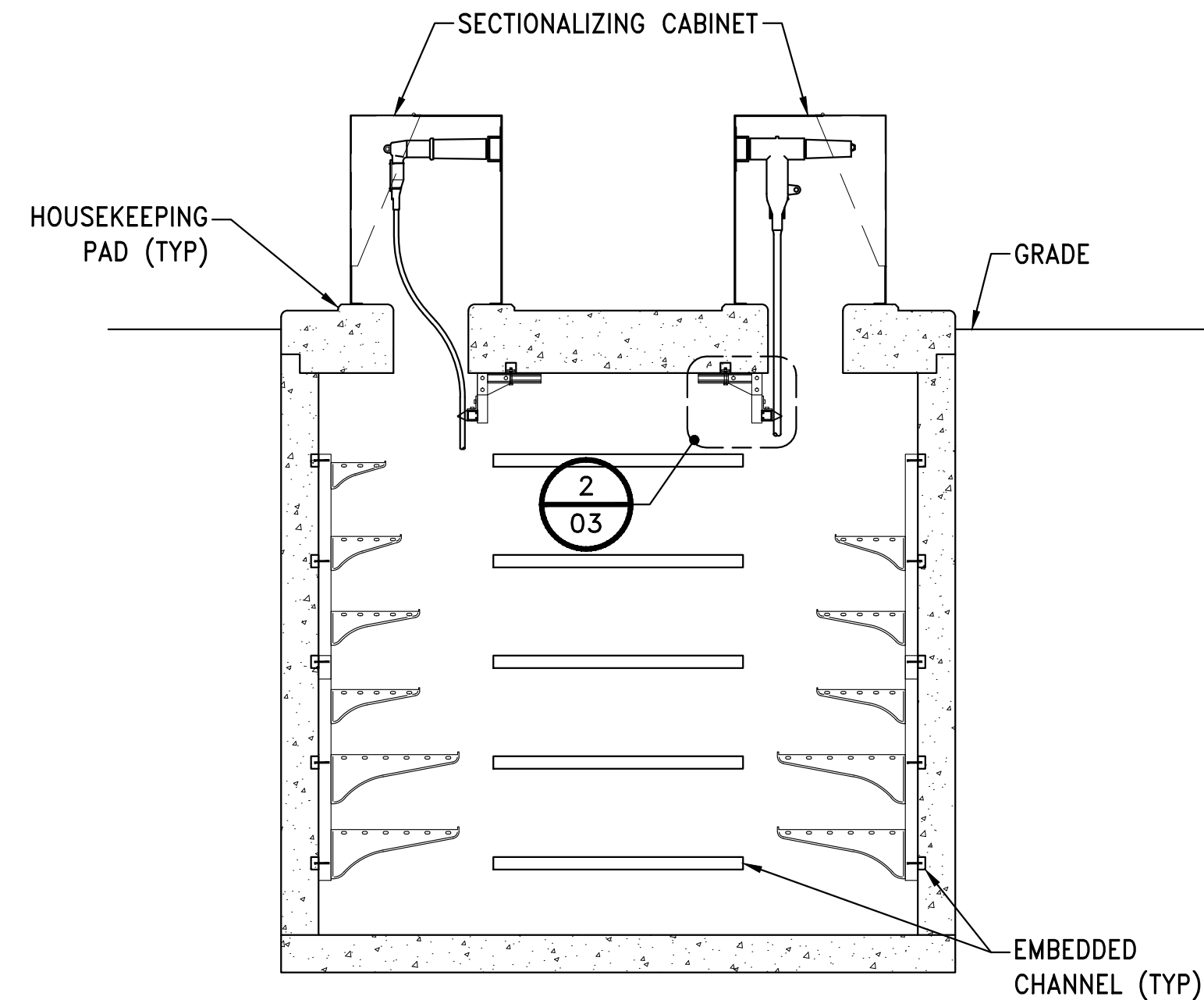
1
01



SECTION

SWITCH VAULT SECTION
SCALE: NTS

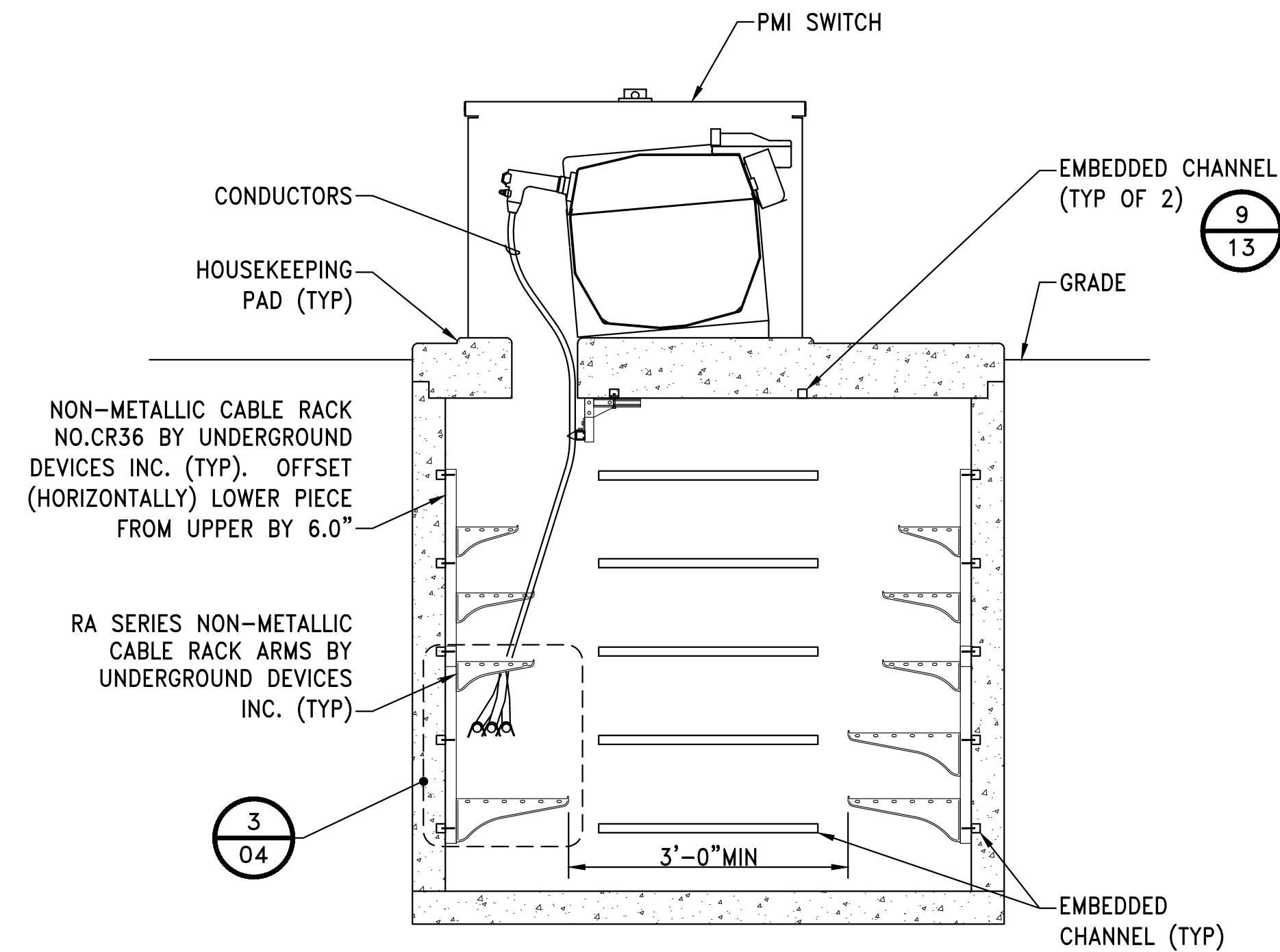
A
01



SECTION

SWITCH VAULT CUT AT
SECTIONALIZING CABINETS
SCALE: NTS

C
01

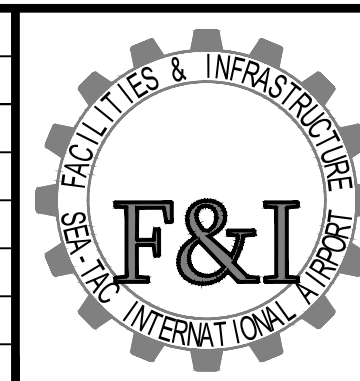


SECTION

SWITCH VAULT CUT AT PMI SWITCH
SCALE: NTS

B
01

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SWITCH VAULT DETAILS TYPICAL SWITCH VAULT LAYOUT**

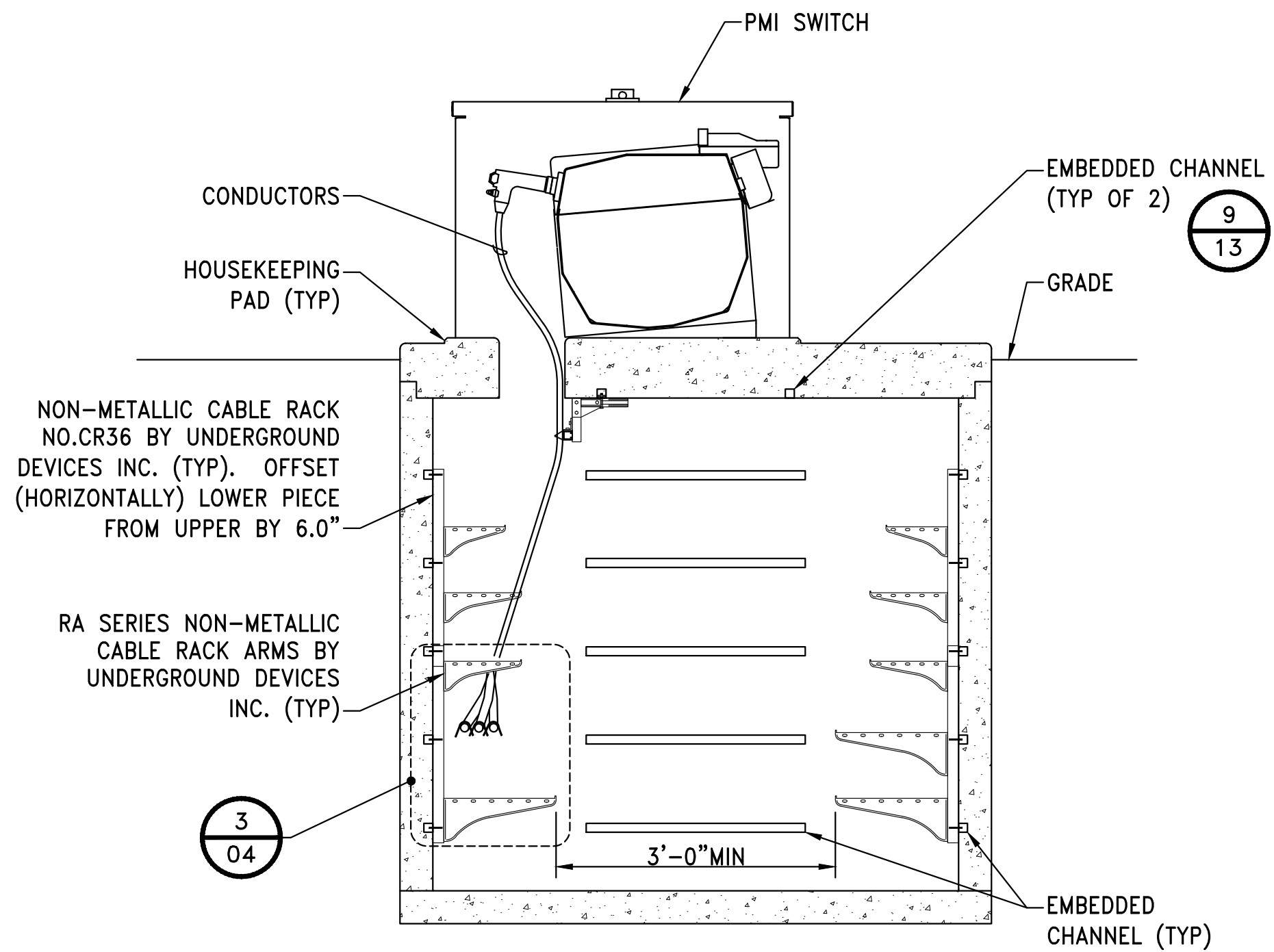
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 43 - 01

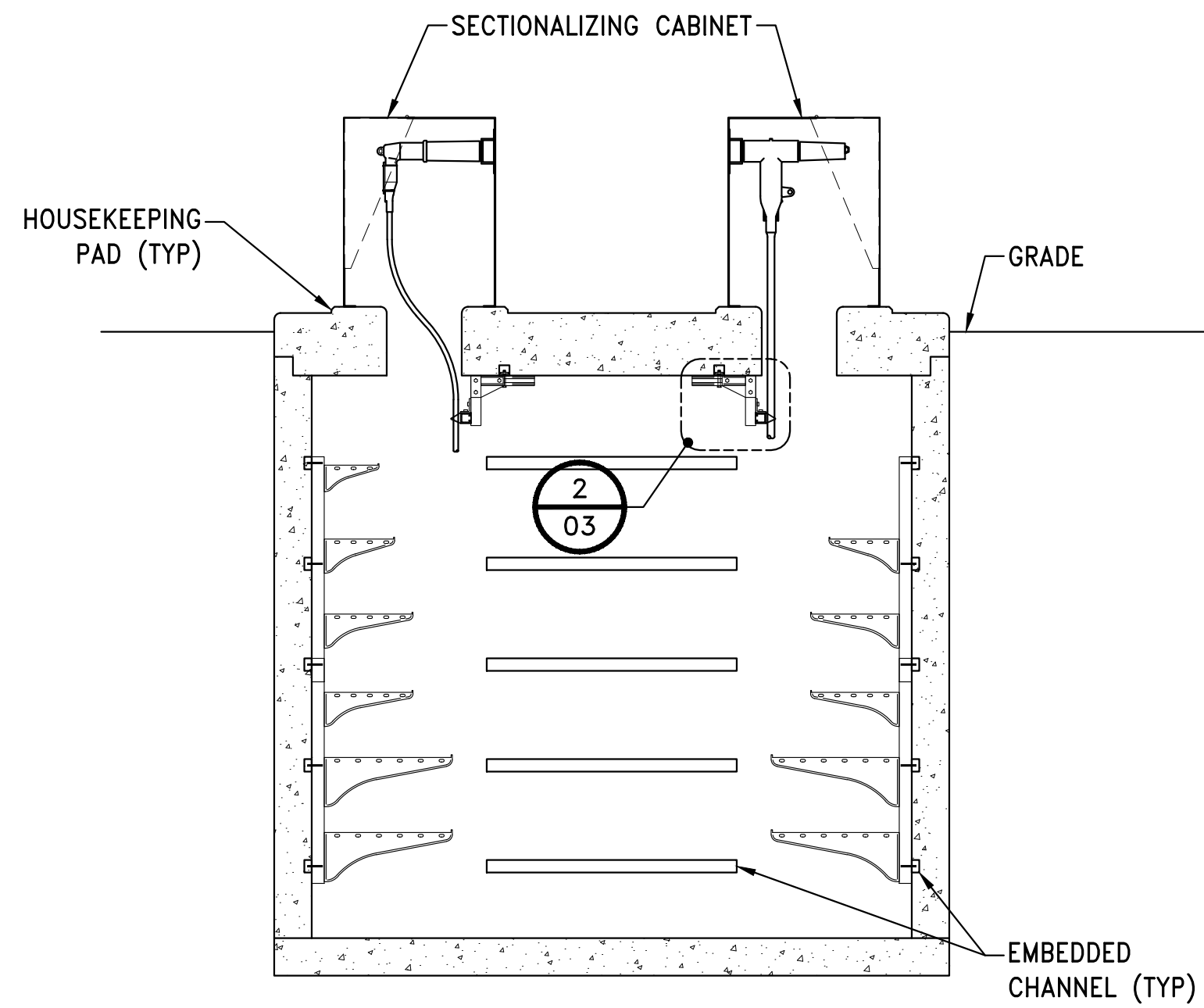
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SECTION

SWITCH VAULT CUT AT PMI SWITCH
SCALE: NTS

B
01



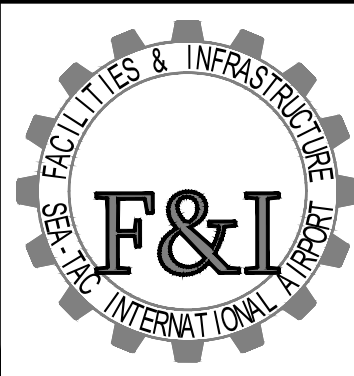
SECTION

SWITCH VAULT CUT AT
SECTIONALIZING CABINETS
SCALE: NTS

C
01

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SWITCH VAULT DETAILS PMI AND SC SECTIONS**

WORK PROJECT NO.

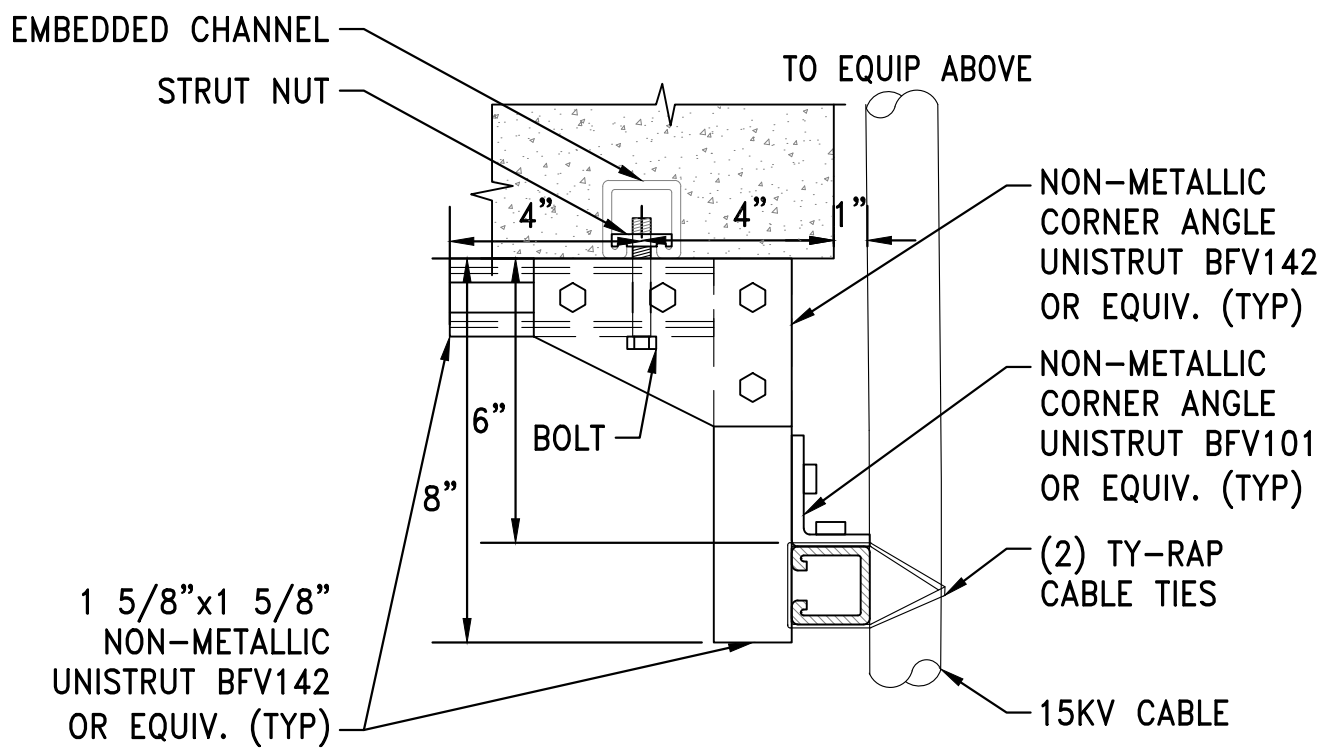
CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 43 - 02

\\\\SEATTLE\\INTERNAL\\LOCAL\\PORT\\AVIATION\\AVIATION\\AV-ISO\\F&I\\ELECTRICAL\\10-STANDARDS\\02_CAB STANDARDS\\01_DIV26\\WORKING\\DWG\\265545-03.DWG - SAVED: 3/13/2025 11:52 AM MZ8926 PLOTTED:4/7/2025 9:27 AM

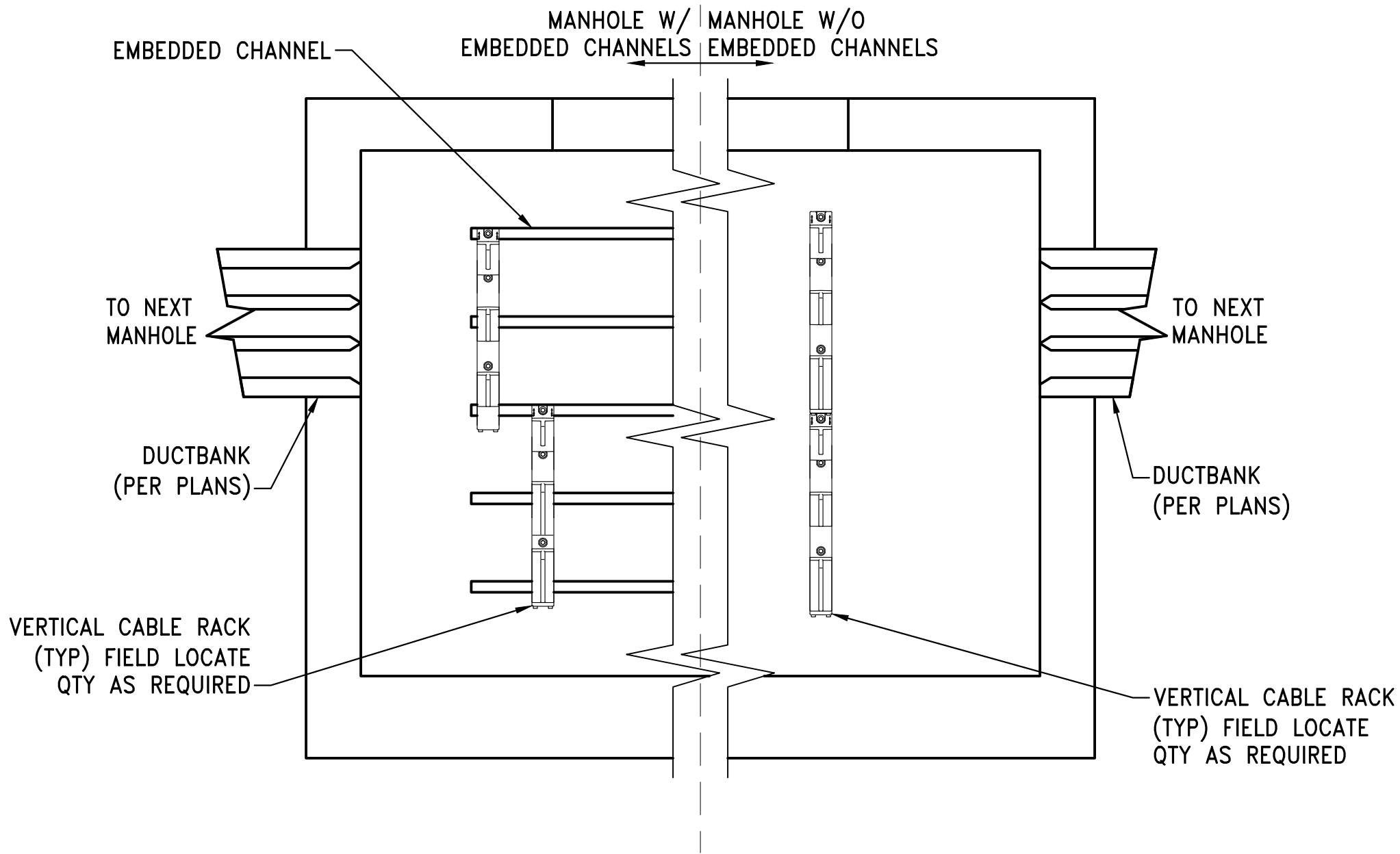
GENERAL NOTES:
1. ALL METAL COMPONENTS SHALL BE 316 STAINLESS STEEL.



DETAIL

CABLE SUPPORT DETAIL
SCALE: NTS

2
02

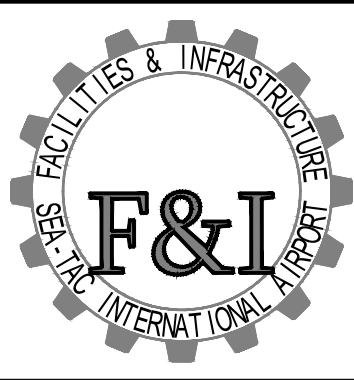


SECTION


TYPICAL MANHOLE SECTION WITH
AND WITHOUT EMBEDDED CHANNELS
SCALE: NTS

D
03

R E V I S I O N S									
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2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	



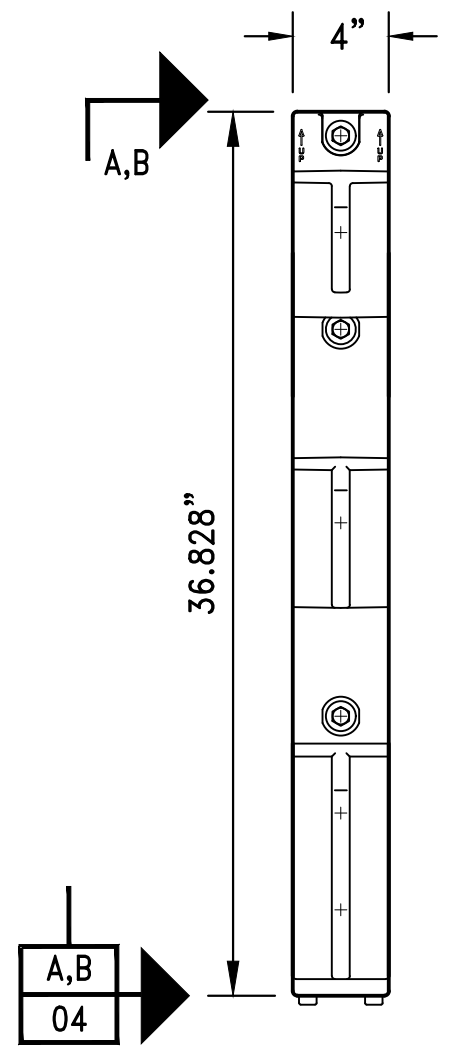
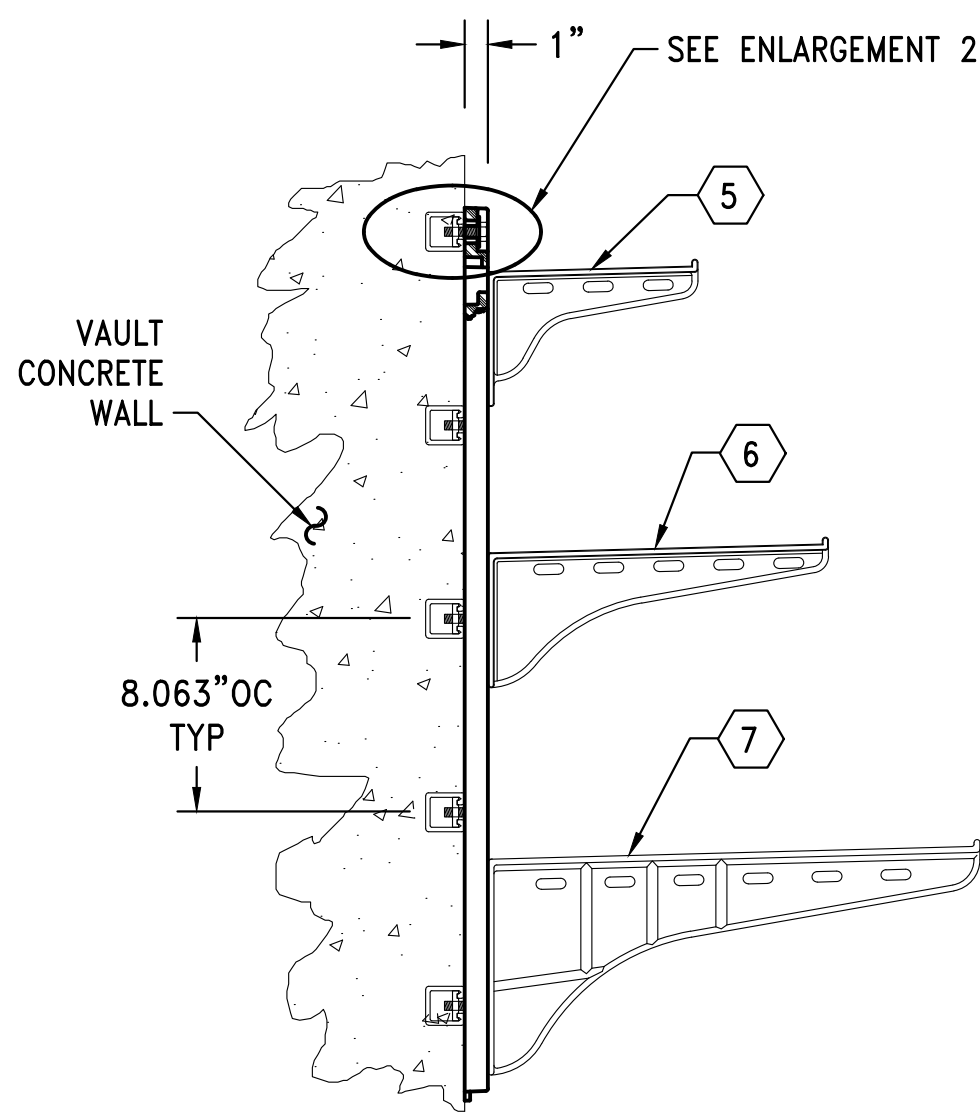
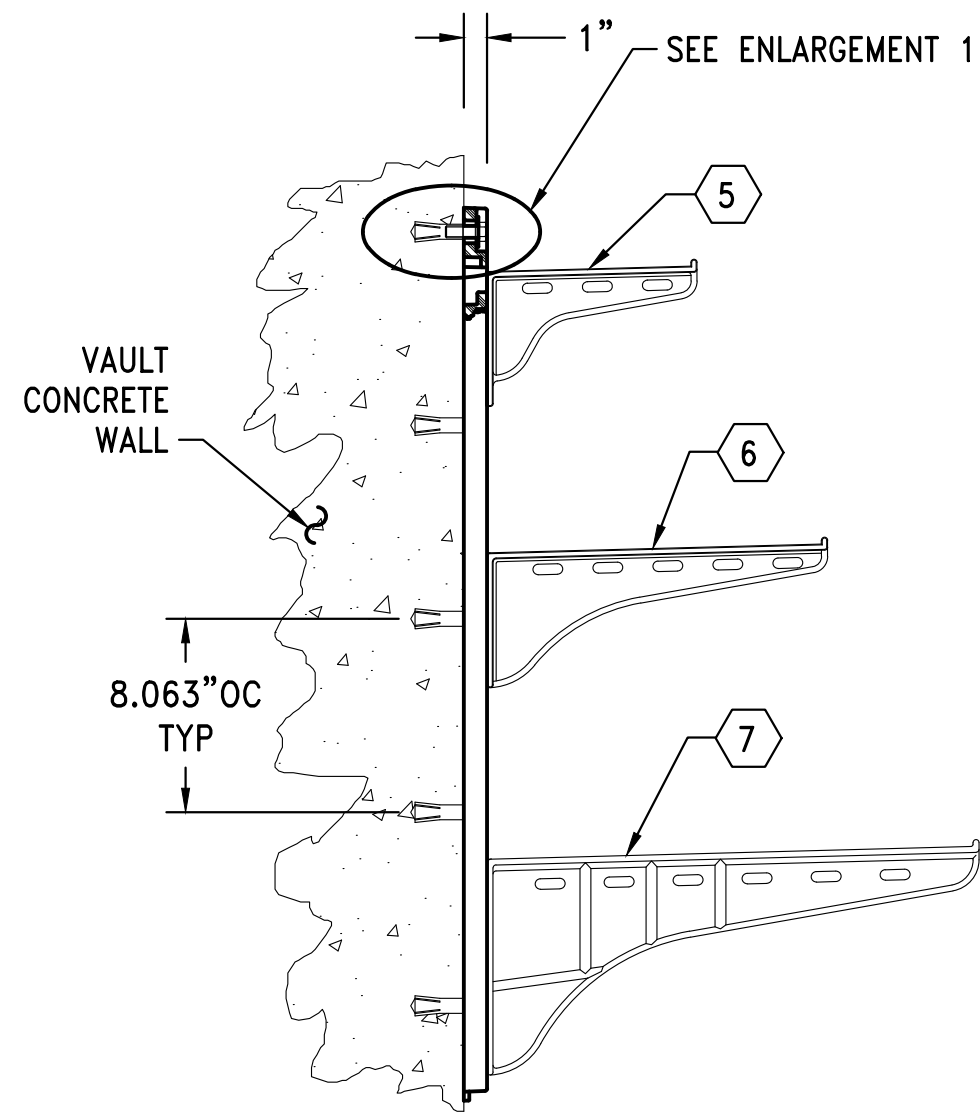
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

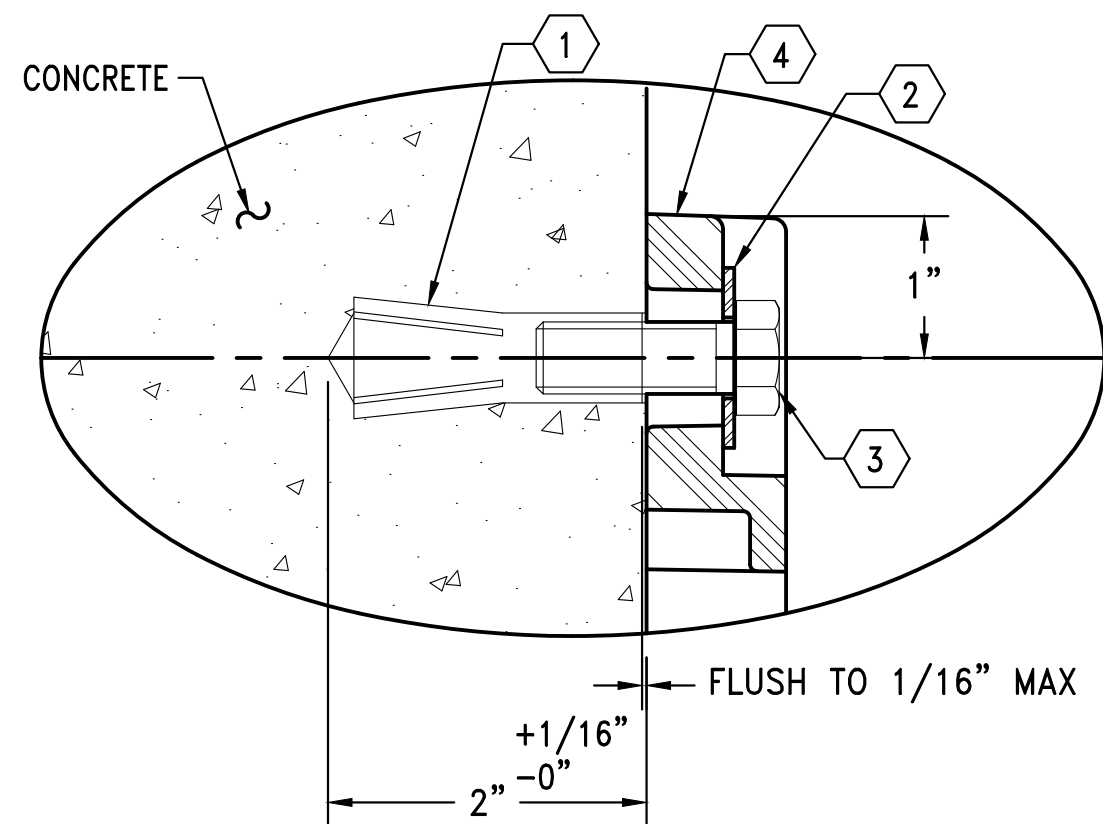
SHEET TITLE: **SWITCH VAULT DETAILS CABLE SUPPORT AND MANHOLE DETAILS**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 03

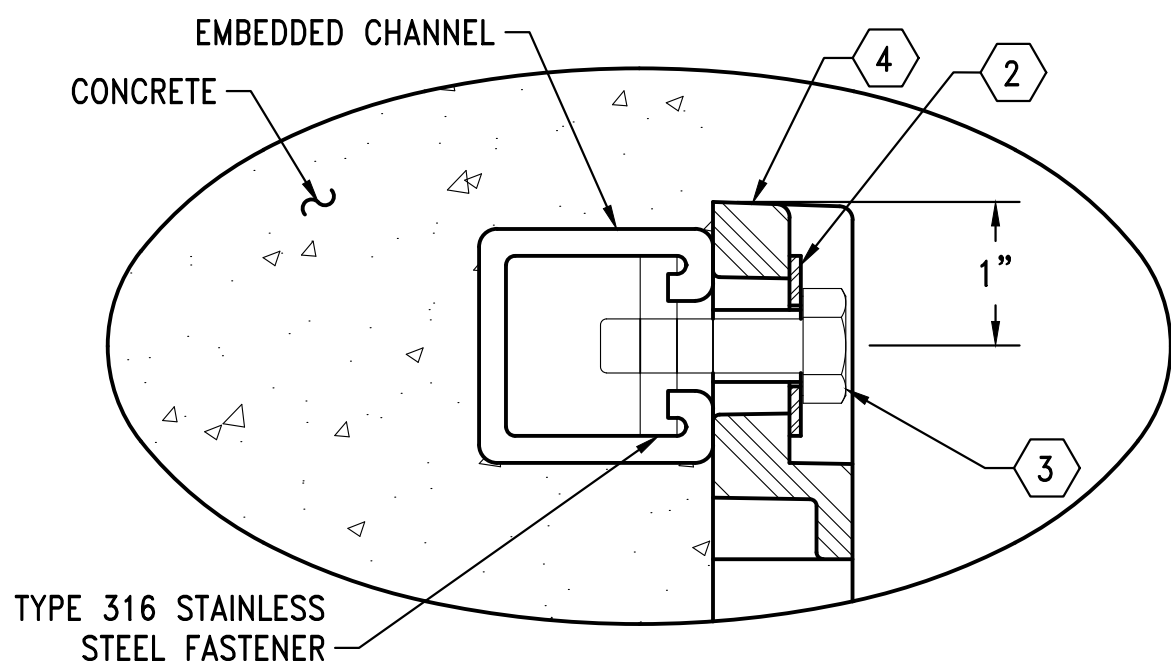
\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV26\WORKING\DWG\265545-04.DWG - SAVED: 3/13/2025 11:56 AM MZ8926 PLOTTED:4/7/2025 9:27 AM



ELEVATION



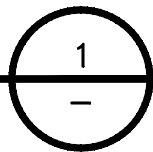
ENLARGEMENT 1



ENLARGEMENT 2

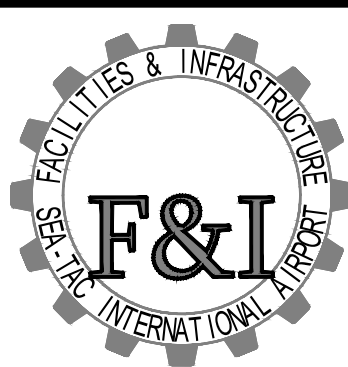
DETAIL

CABLE RACKS AND RACK ARMS
SCALE: N/A




BILL OF MATERIAL			
ITEM NUMBER	CATALOG NUMBER	DESCRIPTION	QUANTITY REQUIRED
1	FSRM-12	1/2"-13 DROP-IN ANCHOR MATERIAL: 303 STAINLESS STEEL	5
2	FFW316-18-40	FLAT WASHER ID=.562, OD=1.250, THK=.078 MATERIAL: 316 STAINLESS STEEL	5
3	FHC316-16-044	1/2"-13 x 1-3/8" LG. HEX HEAD CAP SCREW MATERIAL: 316 STAINLESS STEEL	5
4	CR36	CR36 STANCHION MATERIAL: 50% GLASS REINFORCED NYLON	1
5	RA08	RA08 ARM (8" LONG) MATERIAL: 50% GLASS REINFORCED NYLON	1
6	RA14	RA14 ARM (14" LONG) MATERIAL: 50% GLASS REINFORCED NYLON	1
7	RA20	RA20 ARM (20" LONG) MATERIAL: 50% GLASS REINFORCED NYLON	1
NOT SHOWN	FRT-112	SETTING TOOL (USED TO INSTALL CATALOG NO. FSRM-12 DROP-IN ANCHOR)	AS REQ'D

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



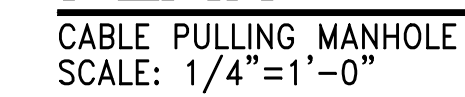
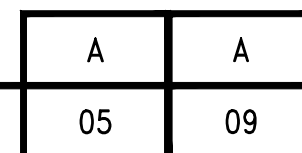
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SWITCH VAULT DETAILS MISCELLANEOUS SWITCH VAULT DETAILS**

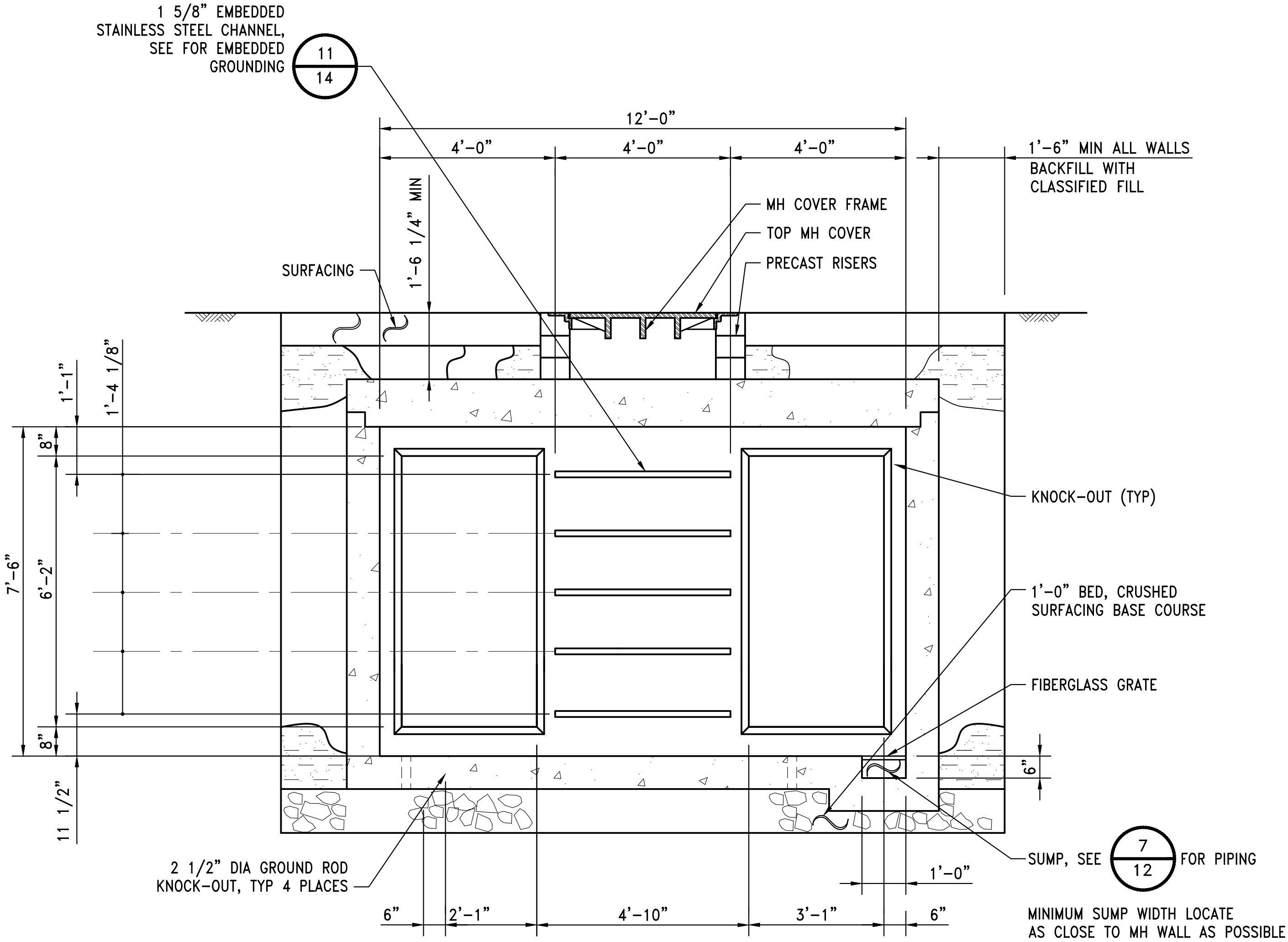
WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 04

1. MINIMUM MANHOLE SIZE. NOT RECOMMENDED UNLESS PHYSICAL CONSTRAINTS DICTATE USE.
2. TERMS-A-DUCTS RECOMMENDED FOR CONDUITS IDENTIFIED AT INSTALLATION OF MH.



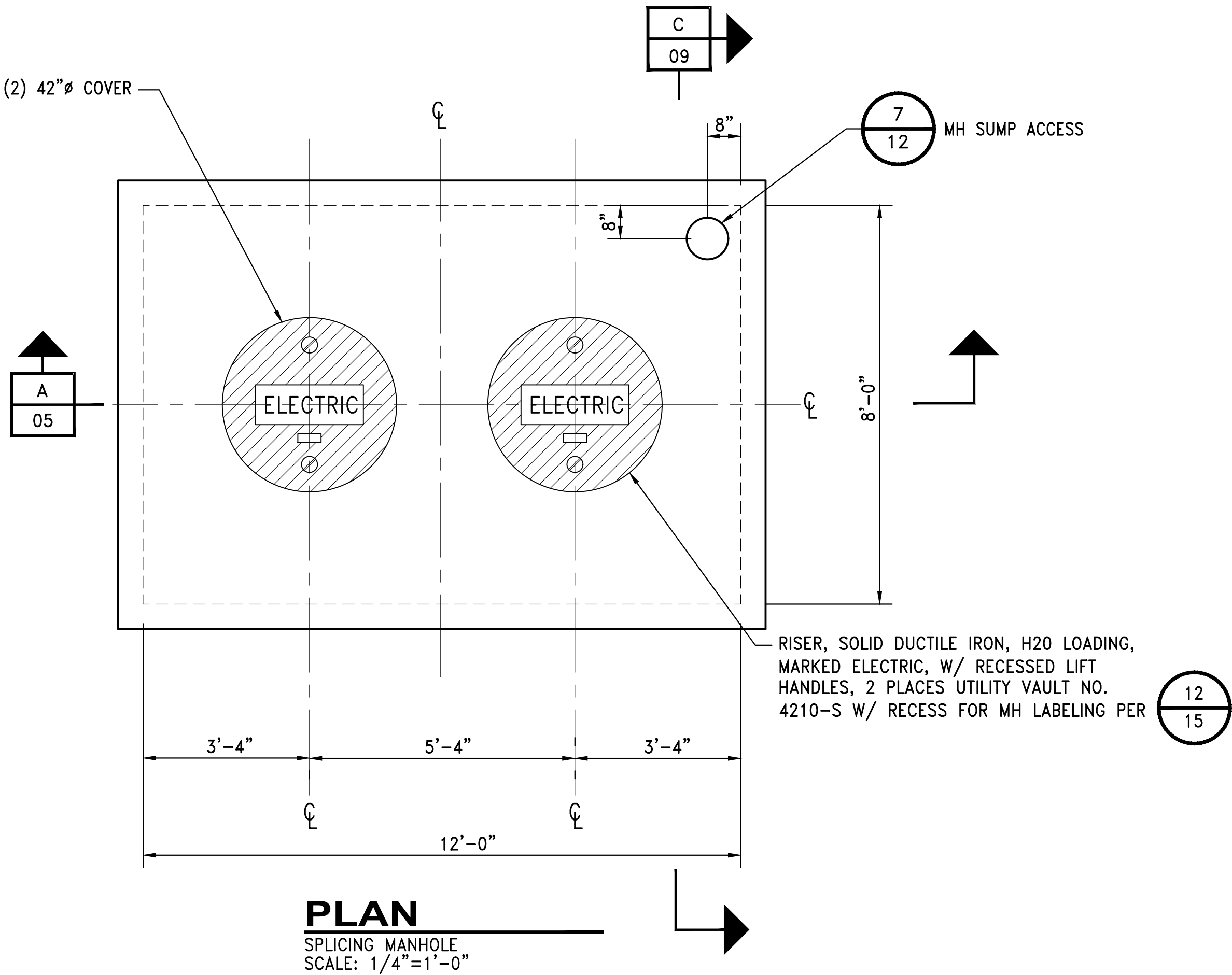
 <p>Port of Seattle</p>	<p>SEA-TAC INTERNATIONAL AIRPORT</p> <p>PROJECT: F&I STANDARD DETAILS</p>
<p>SHEET TITLE: CABLE PULLING MANHOLE PLAN AND SECTION</p>	

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV26-WORKING\DWG\265543-BE.DWG - SAVED: 3/13/2025 12:06 PM MZBR26 PLOTTED:4/7/2025 9:27 AM



SECTION
SPLICING MANHOLE
SCALE: 1/4" = 1'-0"

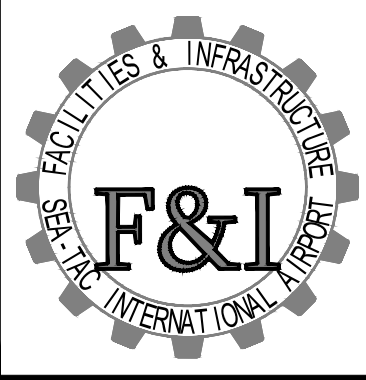
A
06



PLAN
SPLICING MANHOLE
SCALE: 1/4"=1'-0"

- GENERAL NOTES:**
- PREFERRED MH FOR PULLING AND SPLICING APPLICATIONS.
 - MINIMUM MANHOLE SIZE. NOT RECOMMENDED UNLESS PHYSICAL CONSTRAINTS DICTATE USE.
 - TERM-A-DUCTS RECOMMENDED FOR CONDUITS IDENTIFIED AT INSTALLATION OF MH.

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



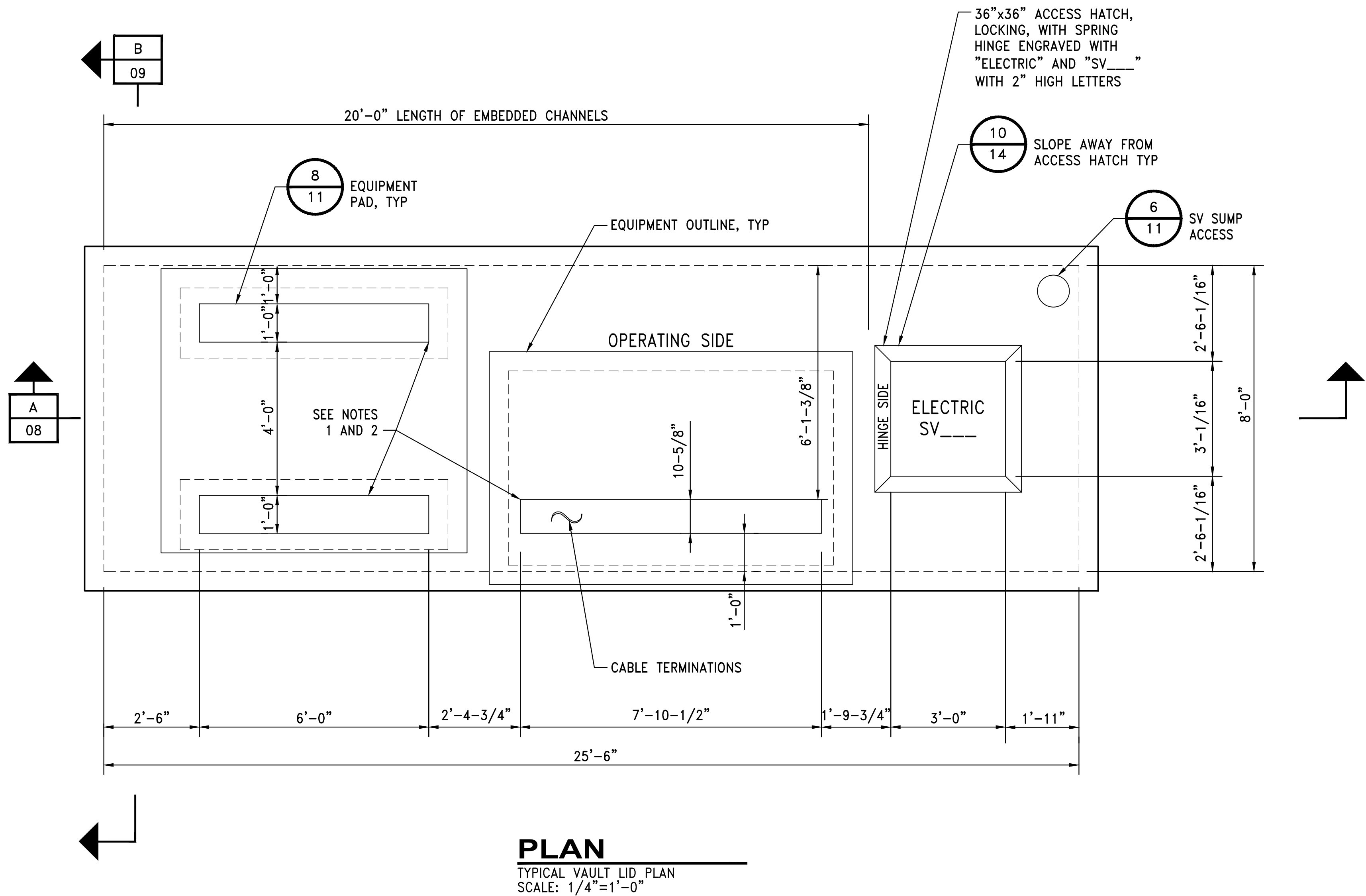
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PROJECT ENGINEER:	
DESIGN ENGINEER:	
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SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	

SEA-TAC INTERNATIONAL AIRPORT
PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **SPLICING MANHOLE PLAN AND SECTION**

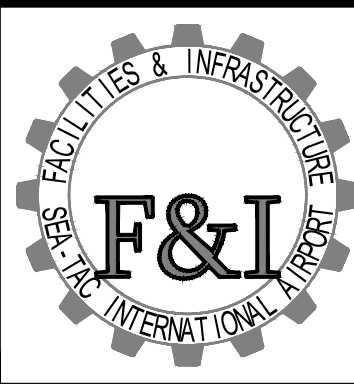
WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 06

\\\\SEATTLE\\INTERNAL\\LOCAL\\PORT\\AVIATION\\AVIATION\\AV-ISO\\F&I\\ELECTRICAL\\10-STANDARDS\\102_CAD-STANDARDS\\01_DIV25\\WORKING\\DWG\\265545-07.DWG, SAVED: 3/13/2025 12:10 PM, MZ8926, PLOTTED: 4/7/2025 9:27 AM

- GENERAL NOTES:**
1. VERIFY ALL OPENINGS W/EQUIPMENT SUPPLIED.
 2. RADIUS ALL EDGES OF OPENINGS, R=1".
 3. OPENINGS AS SHOWN FOR 6-WAY SWITCH AND 3-POINT JUNCTION.



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						

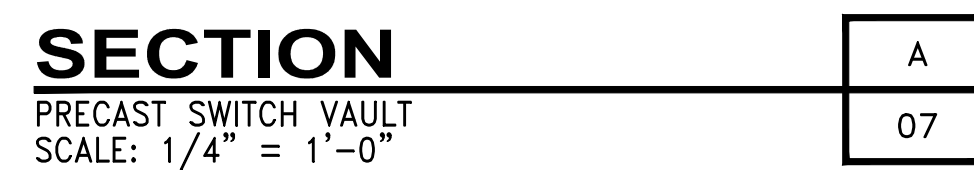
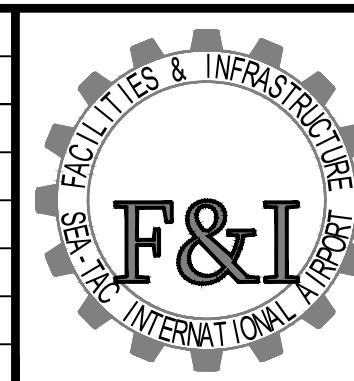


PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **SWITCH VAULT PLAN**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 07

1. ADJUST KNOCK OUT SIZE AND LOCATIONS FOR DUCTBANK IN FINAL DESIGN.
2. TERM-A-DUCTS RECOMMENDED FOR CONDUITS IDENTIFIED AT INSTALLATION OF MH.

[illegible]

PROJECT MANAGER:	—
PROJECT ENGINEER:	—
DESIGN ENGINEER:	—
DRAFTER:	—
SCALE:	N.T.S.
DATE:	—
CHECKED/APPROVED BY:	—

SHEET TITLE: **SWITCH VAULT DETAILS TYPICAL SWITCH VAULT LAYOUT**

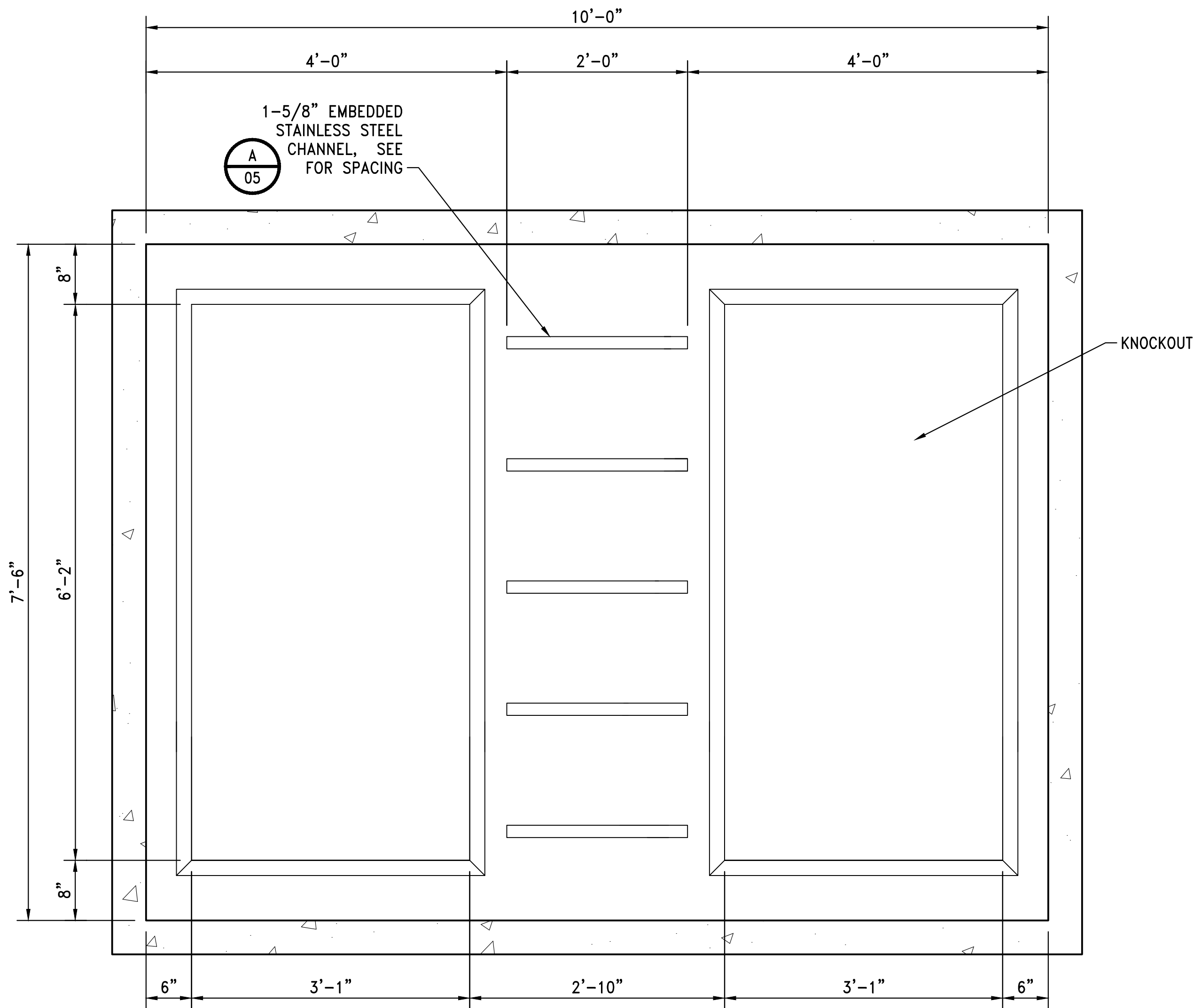
WORK PROJECT NO.

CONSULTANT'S NO.

PART OF SEATTLE NO.

26 05 43 - 0

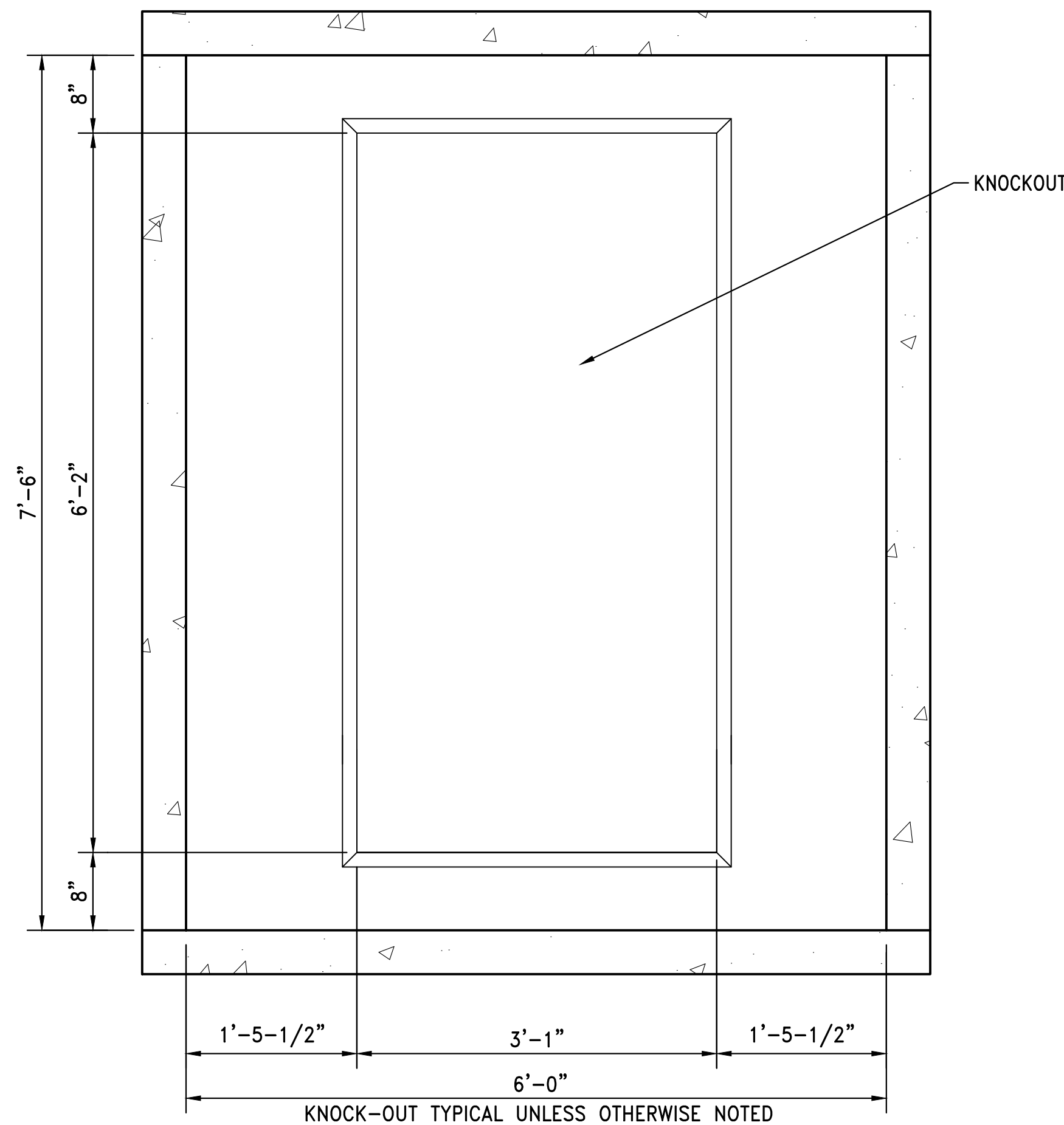
\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\01_DIV26\WORKING\DWG\265545-DB.DWG - SAVED: 3/13/2025 12:16 PM - MZ8926 - PLOTTED:4/7/2025 9:28 AM



SECTION

PRECAST MANHOLE AND VAULT
SCALE: NONE

B	B
06	07

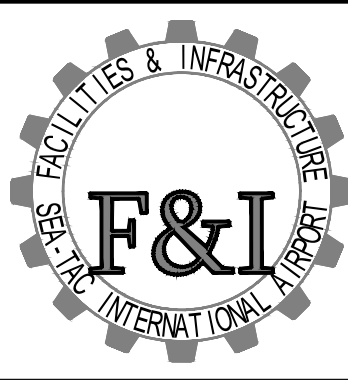


SECTION


PRECAST MANHOLE
SCALE: NONE

C	
05	

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **STANDARD MANHOLE AND VAULT SECTIONS**

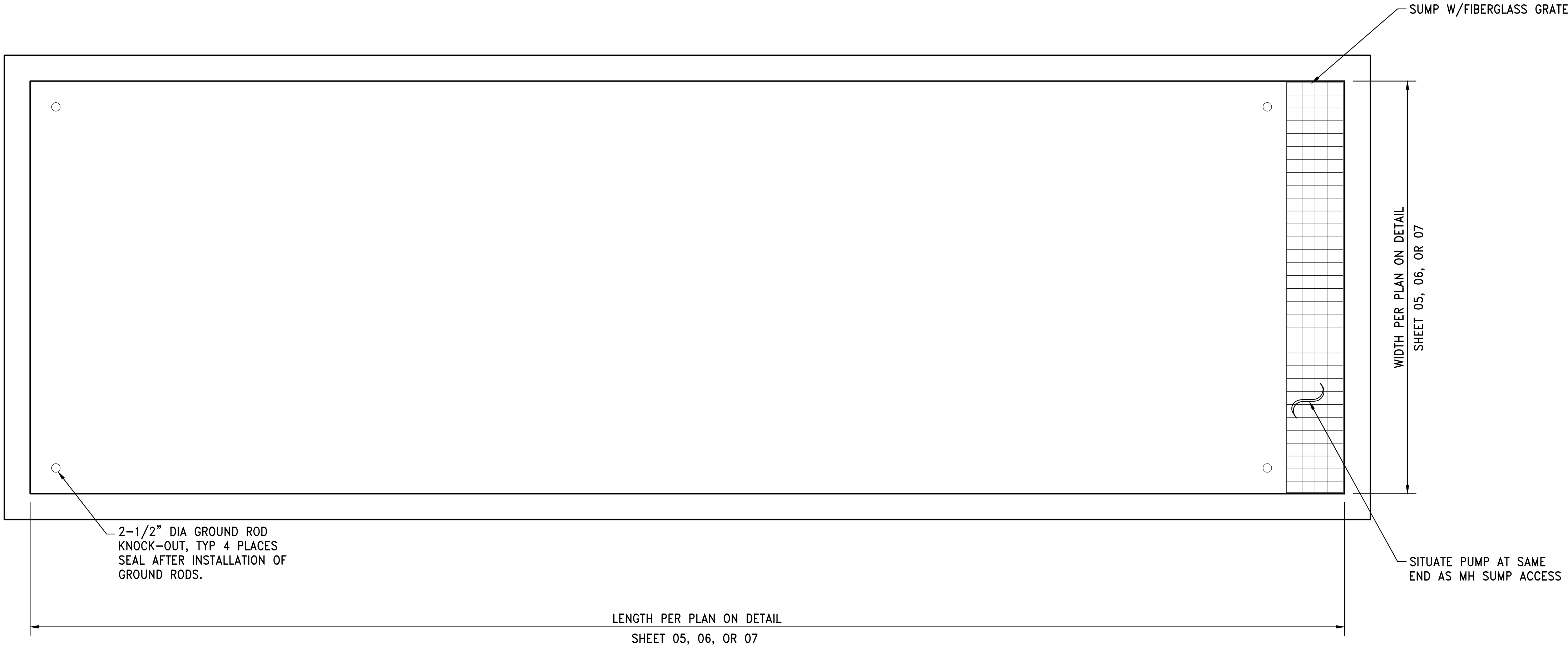
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 43 - 09

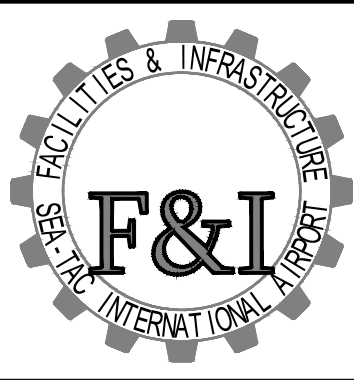
\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02_CAD-STANDARDS\01_DIV26_WORKING\DWG\265543-10.DWG SAVED: 3/13/2025 12:19 PM MZ8926 PLOTTED:4/7/2025 9:28 AM



PLAN

SPLICING MANHOLE
SCALE: 3/8"=1'-0"

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **MANHOLE TYPICAL FLOOR PLAN**

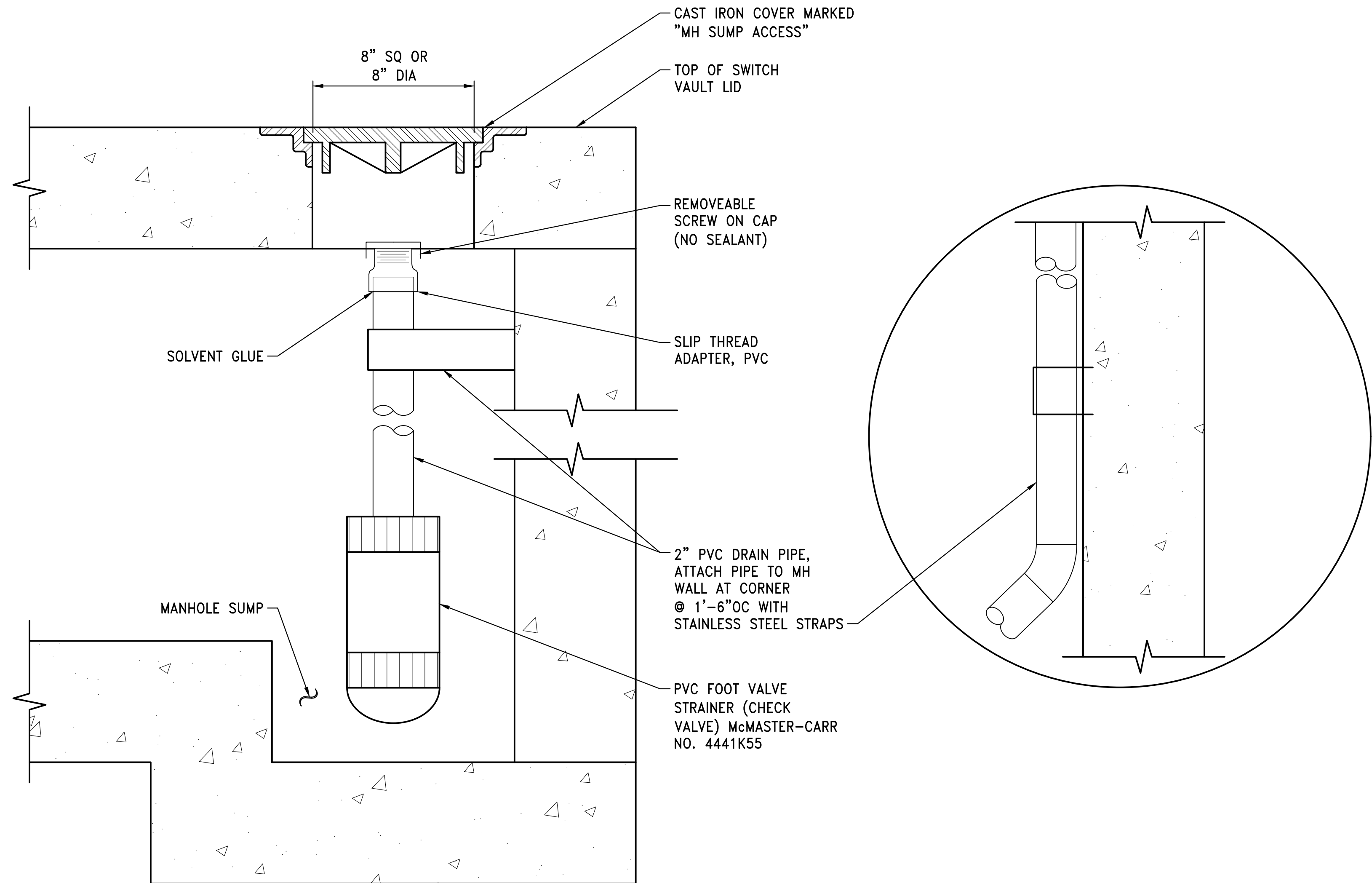
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CONSULTANT'S NO.

PORT OF SEATTLE NO.

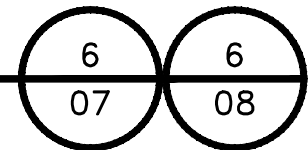
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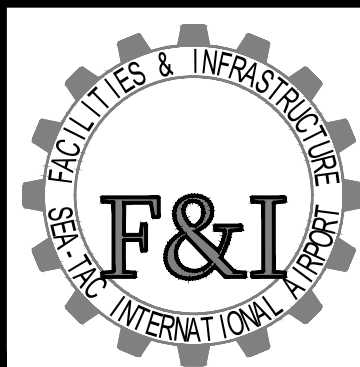


DETAIL

SWITCH VAULT SUMP PIPING
AND ACCESS
SCALE: NONE



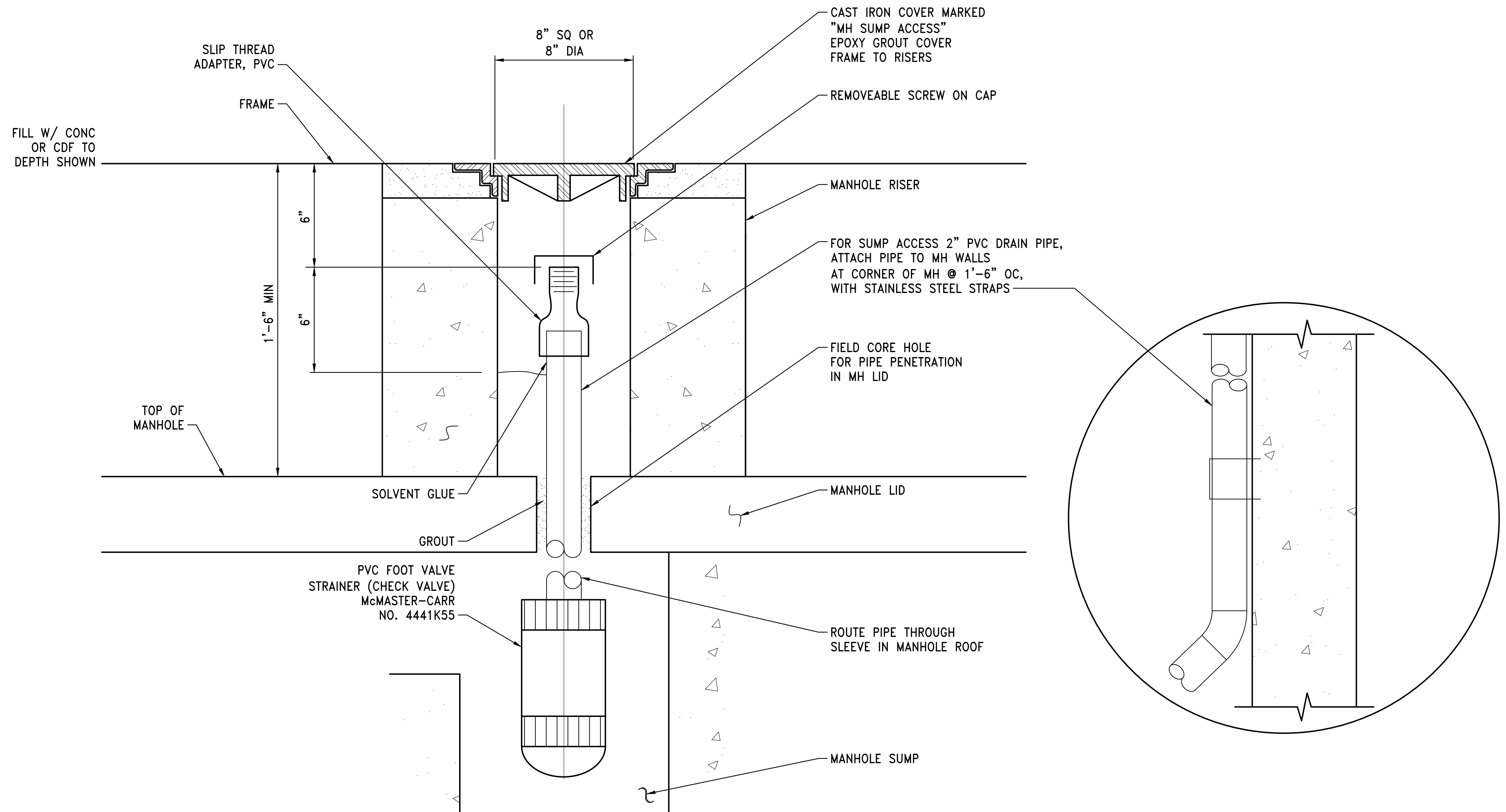
REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

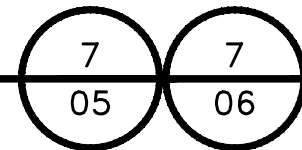
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	CONSULTANT'S NO.
	PORT OF SEATTLE NO.
	26 05 43 - 11

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\10-CAD-STANDARDS\01-DIV26-WORKING\DWG\265543-12.DWG - SAVED: 3/13/2025 12:41 PM MZ8926 PLOTTED:4/7/2025 9:28 AM

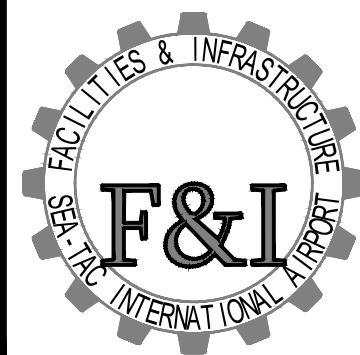


DETAIL

MANHOLE SUMP PIPING
AND ACCESS
SCALE: NONE



R E V I S I O N S							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **STANDARD MANHOLE SUMP AND PIPE DETAILS**

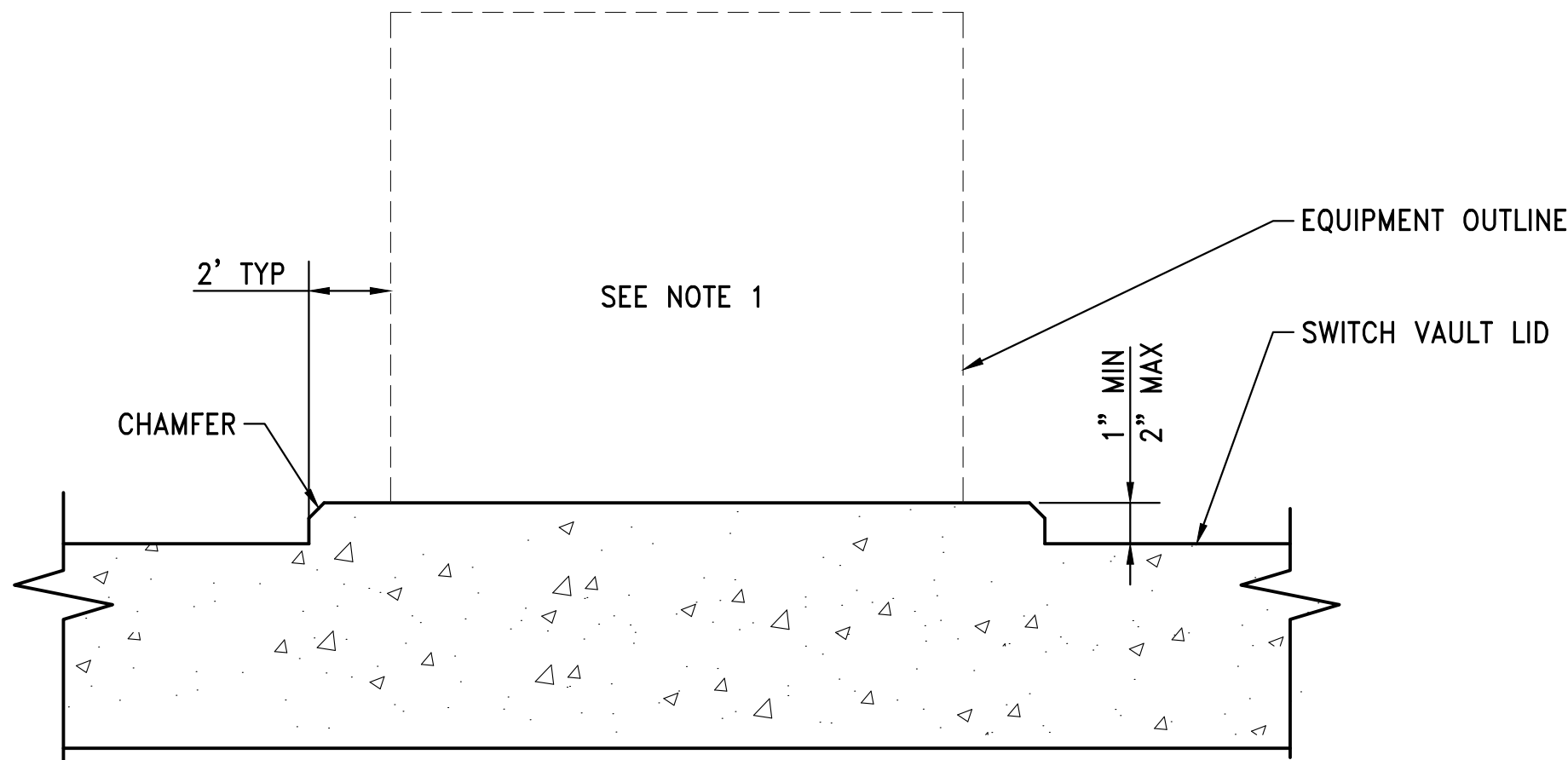
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02_CAD-STANDARDS\01_DIV26_WORKING\DWG\265543-13.DWG - SAVED: 3/13/2025 12:45 PM - M28926 PLOTTED:4/7/2025 9:28 AM

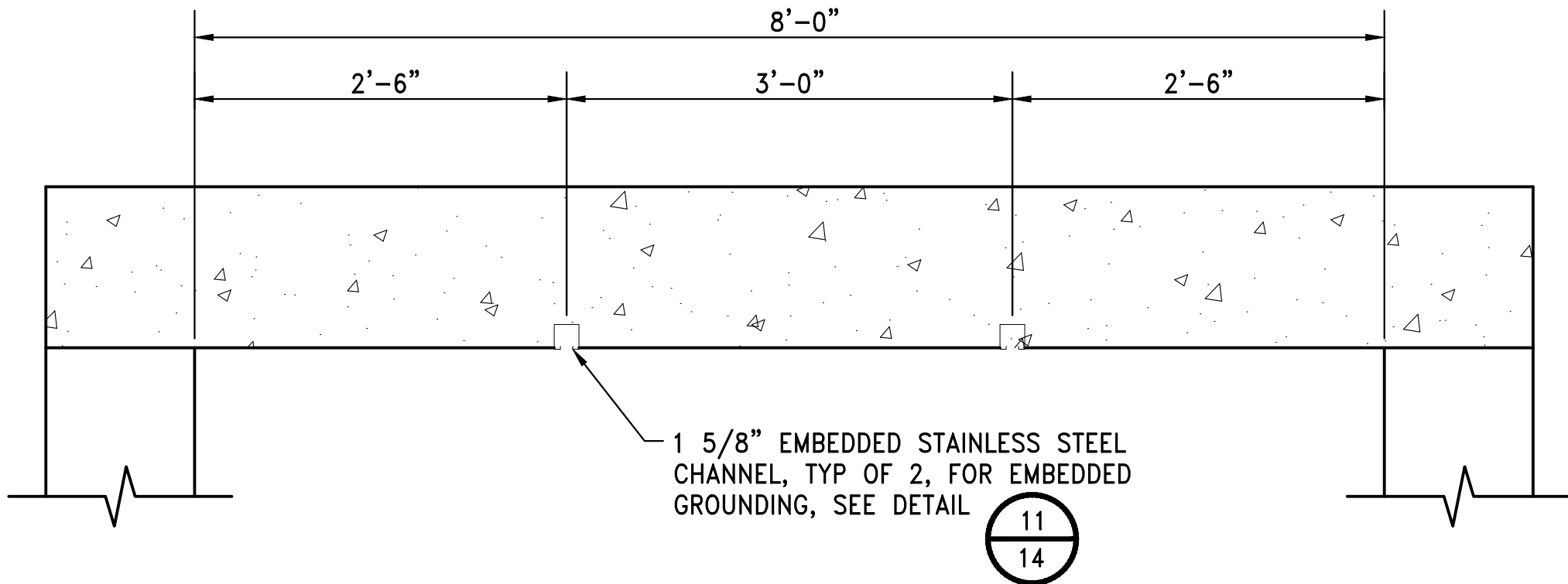
GENERAL NOTES:
1. VERIFY EQUIPMENT PAD DIMENSIONS WITH EQUIPMENT SUPPLIER.



DETAIL
SWITCH VAULT EQUIPMENT PAD
SCALE: NONE

8

07



DETAIL
MANHOLE AND SWITCH VAULT LID EMBEDMENTS
SCALE: NONE

9

02

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	

Port of Seattle

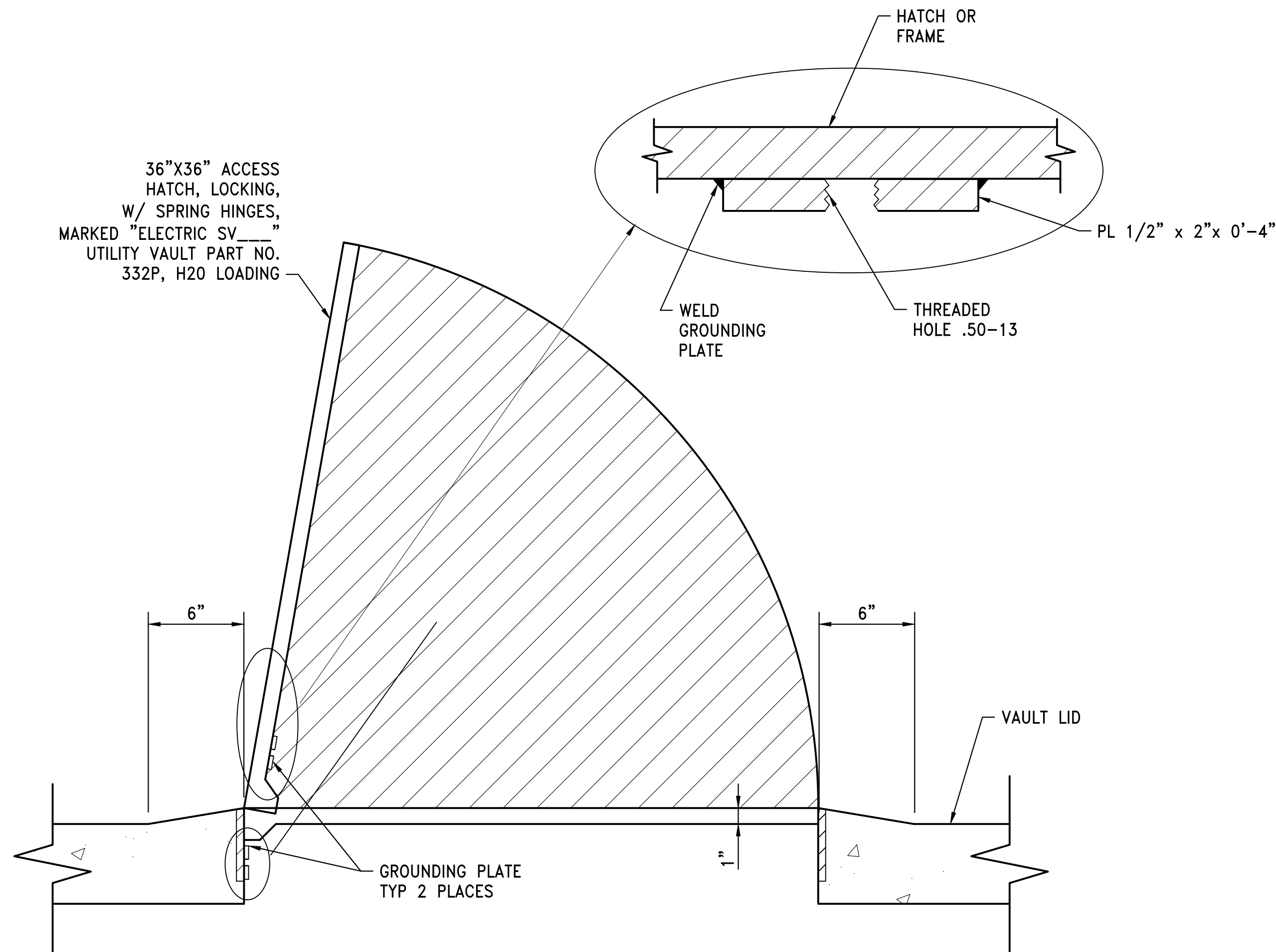
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **STANDARD VAULT LID DETAILS**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 13

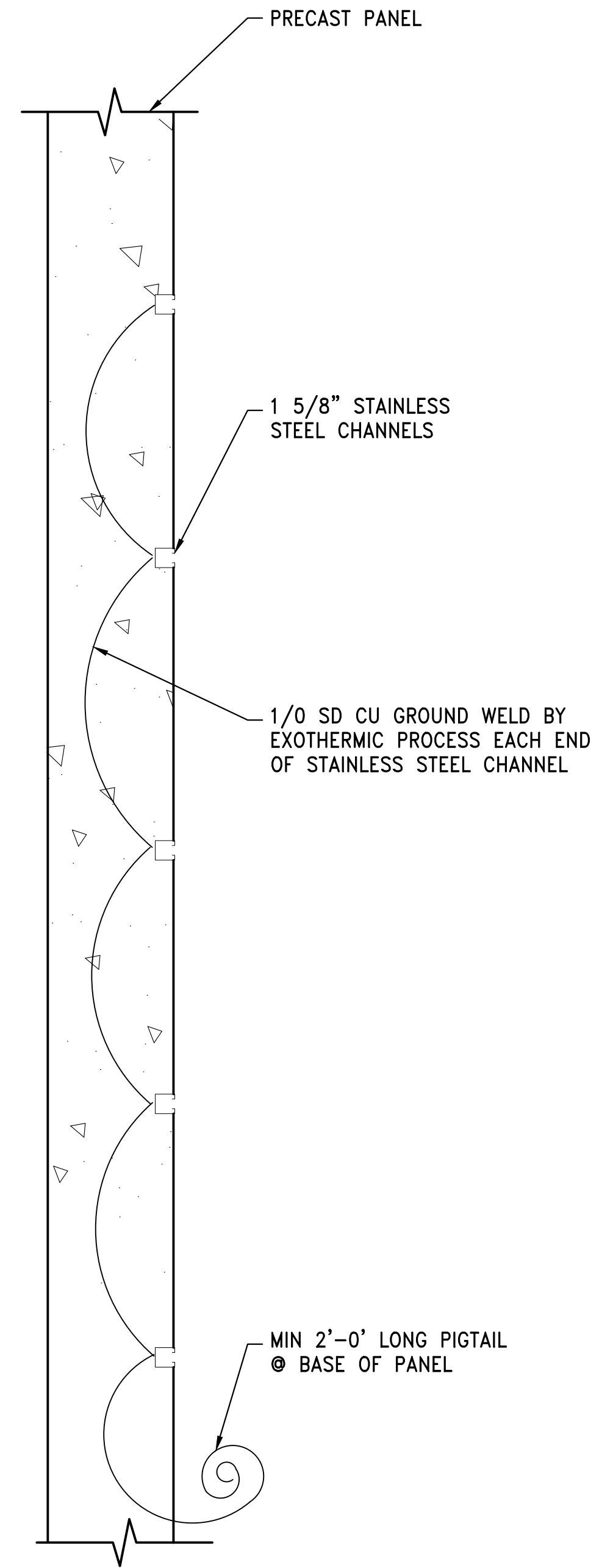
\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV25-WORKING\DWG\265543-14.DWG - SAVED: 3/13/2025 12:55 PM MZ8926 PLOTTED:4/7/2025 9:28 AM



DETAIL

ACCESS HATCH
SCALE: NONE

10
07

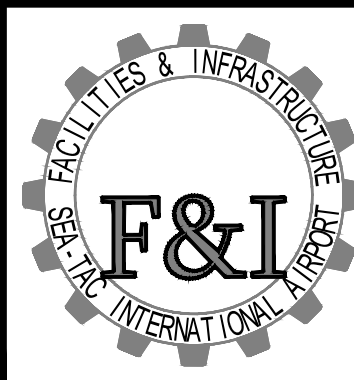


DETAIL

TYPICAL EMBEDDED GROUNDING
SCALE: NONE

11 11 11 11
05 06 08 13

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
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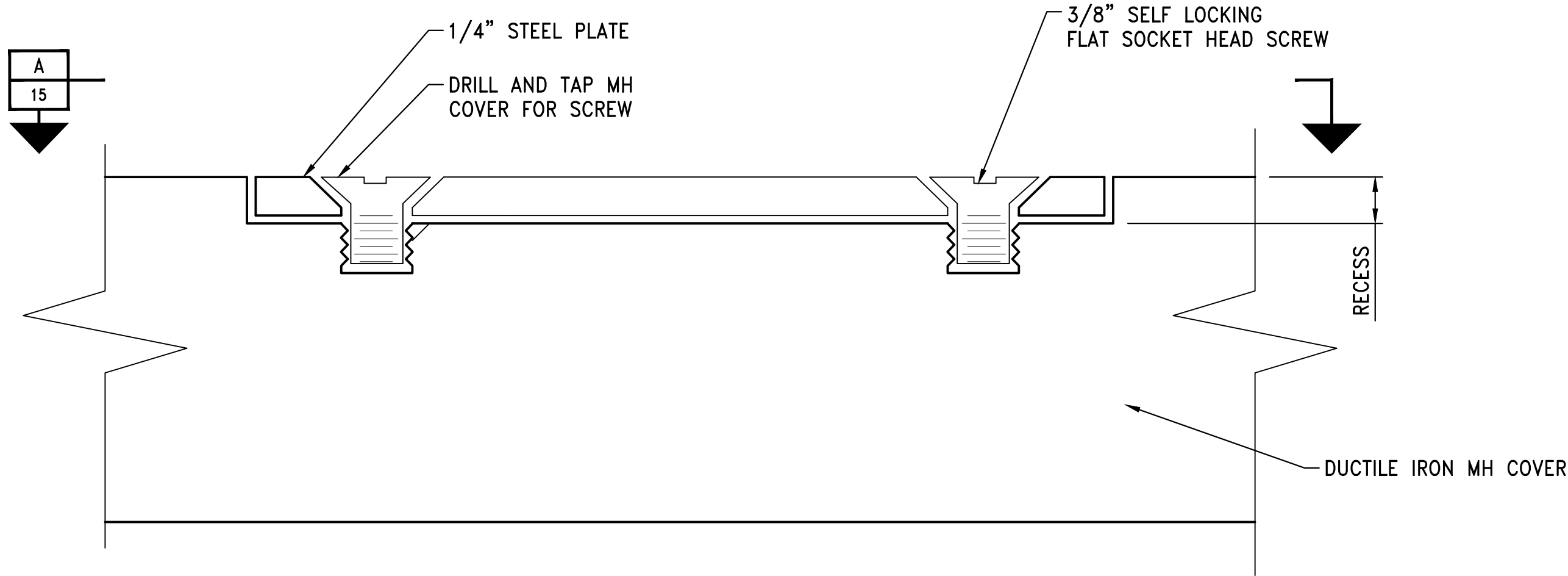
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **VAULT HATCH AND EMBEDDED GROUNDING DETAILS**

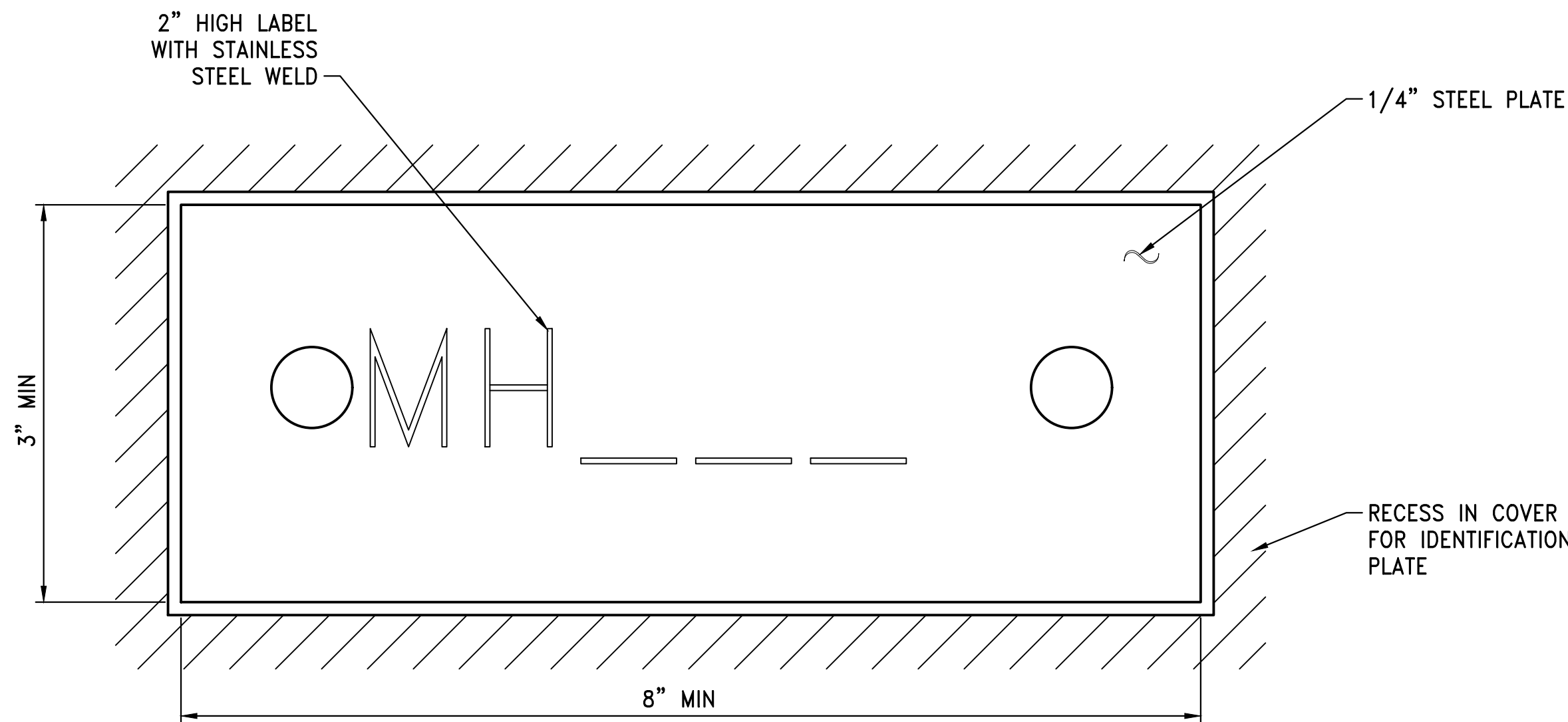
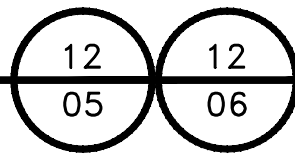
WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 43 - 14

\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV25-WORKING\DWG\265543-15.DWG - SAVED: 3/13/2025 12:59 PM MZ8926 PLOTTED:4/7/2025 9:28 AM



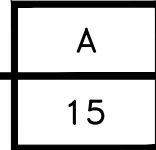
DETAIL

MH COVER IDENTIFICATION PLATE
SCALE: NONE

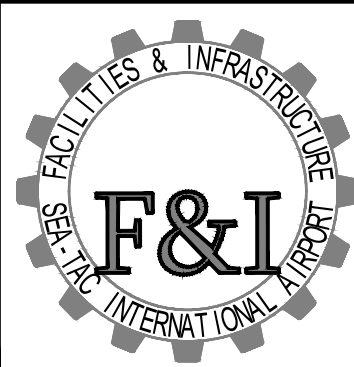


SECTION

MH COVER IDENTIFICATION PLATE
SCALE: NONE



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **STANDARD MANHOLE COVER DETAIL**

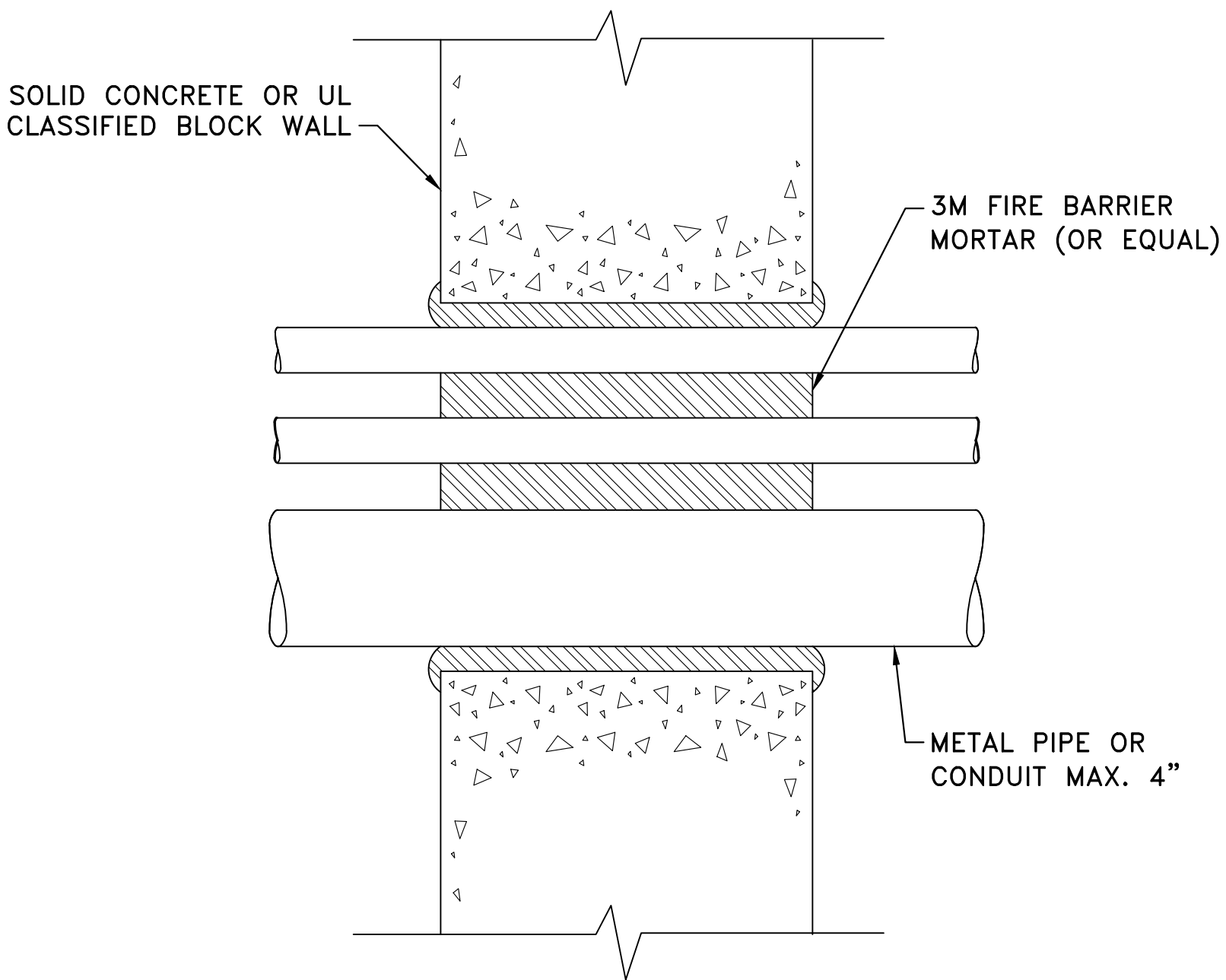
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CONSULTANT'S NO.

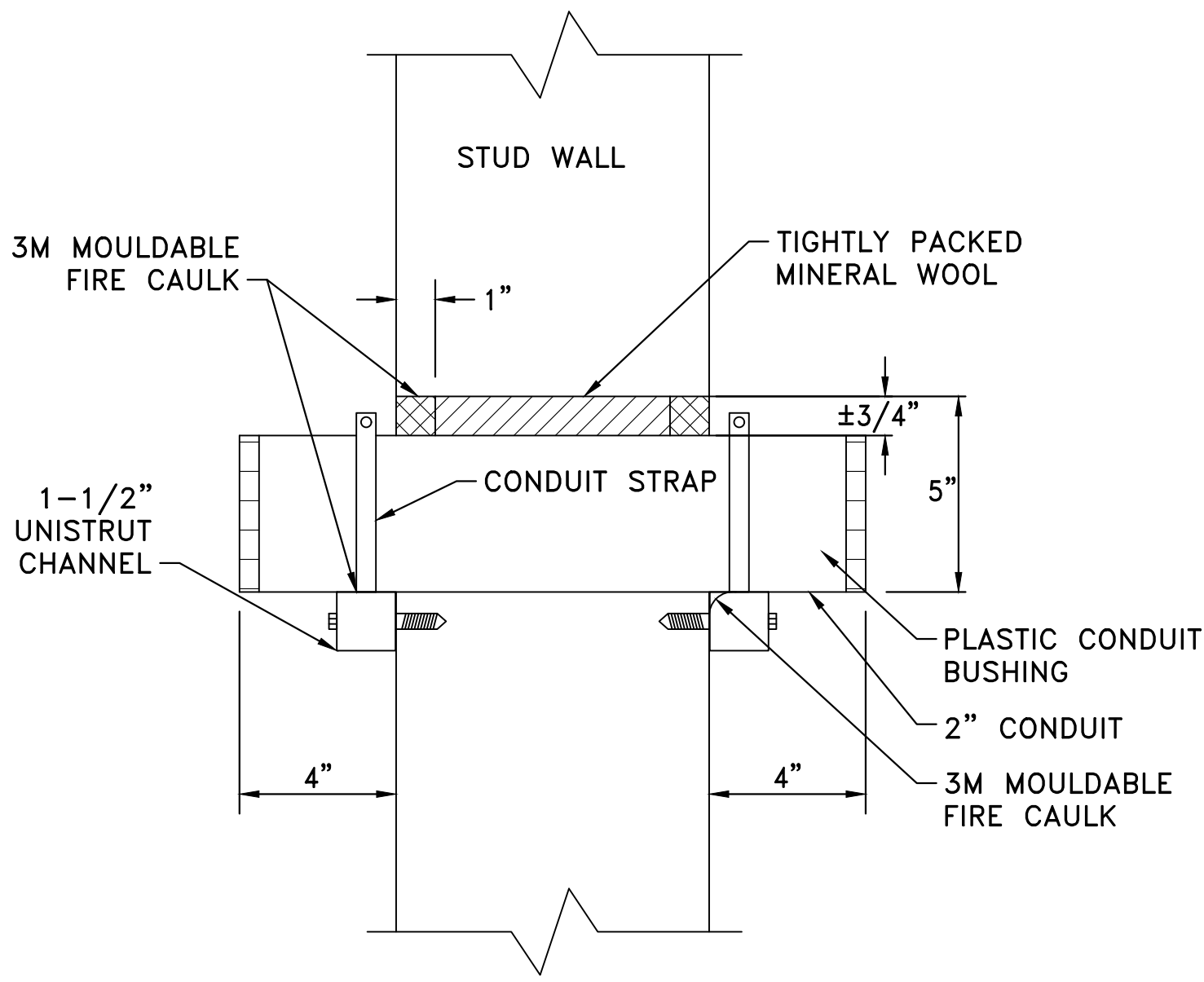
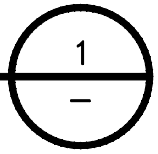
PORT OF SEATTLE NO.

26 05 43 - 15

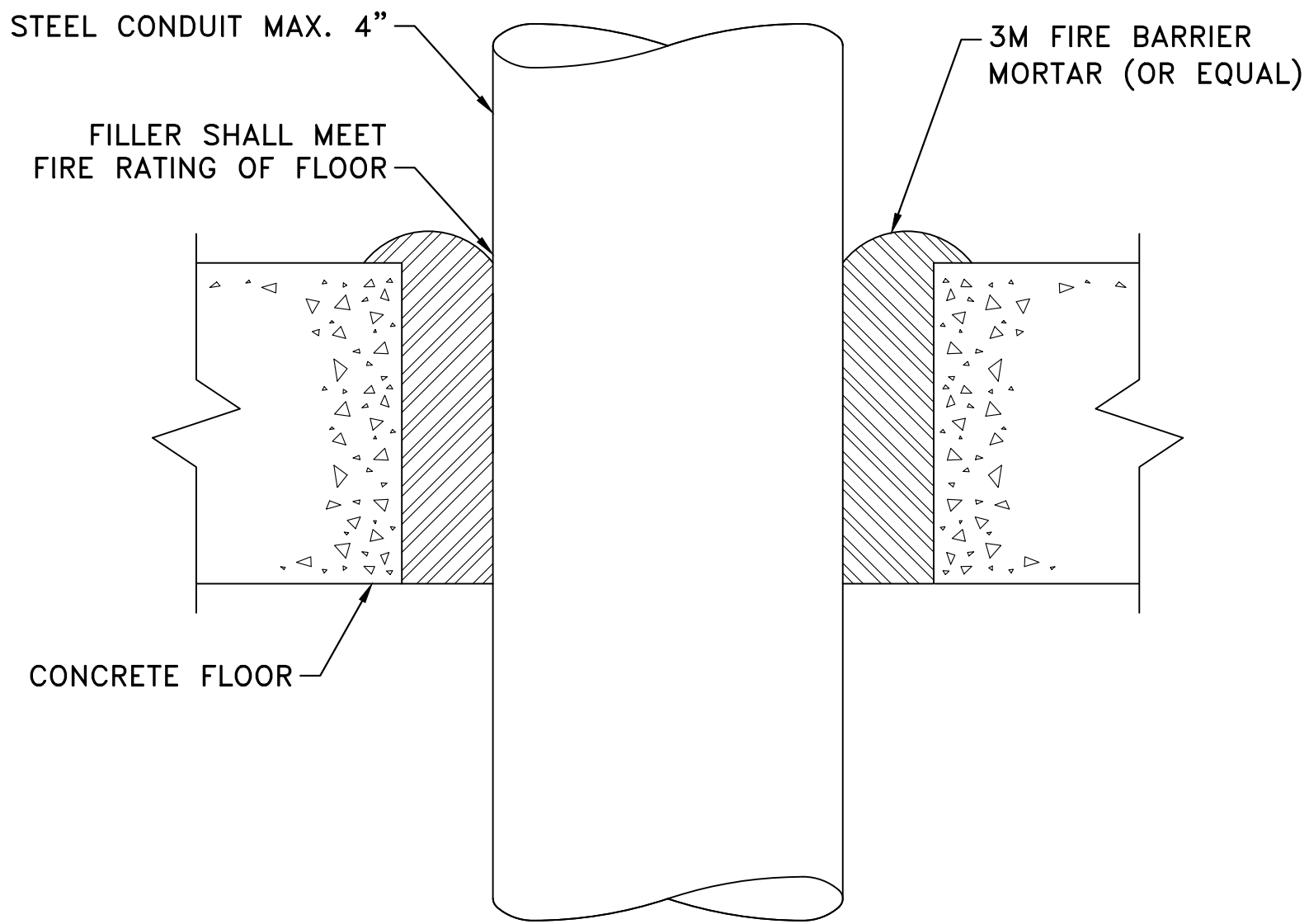
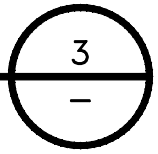
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV25-WORKING\DWG\265544-D1.DWG- 3/13/2025 1:13 PM MZB26 PLOTTED:4/7/2025 9:23 AM



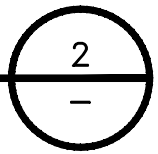
DETAIL
TYPICAL WALL PENETRATION
3M FIRESTOPPING
SCALE: NTS



DETAIL
TYPICAL CONDUIT PENETRATION
THROUGH STUD WALL
SCALE: NTS



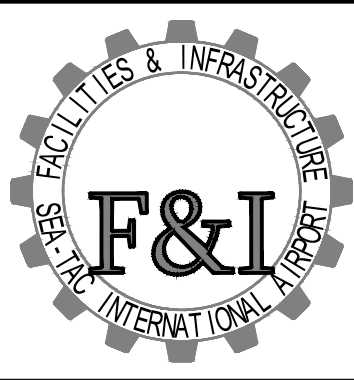
DETAIL
TYPICAL FLOOR PENETRATION
3M FIRESTOPPING
SCALE: NTS




GENERAL NOTES:

1. FLOOR PENETRATION MAY NOT EXCEED 6" IN DIAMETER OR 144 SQUARE INCHES.
2. MORTAR MUST BE INSTALLED IN 100% OF PENETRATION IN CONCRETE FLOORS AND WALLS.
3. PRIOR TO INSTALLATION, CONTRACTOR SHALL PROVIDE SUBMITTAL OF PROPOSED FIRESTOPPING FOR APPROVAL BY ENGINEER.
4. FIRE STOPPING MORTAR MUST COMPLY WITH INTERNATIONAL BUILDING CODE 712.3.1.
5. 3M PRODUCT "MORTAR". NO EQUAL.

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	—
PROJECT ENGINEER:	—
DESIGN ENGINEER:	—
DRAFTER:	—
SCALE:	N.T.S.
DATE:	—
CHECKED/APPROVED BY:	—



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **FIRESTOPPING DETAILS**

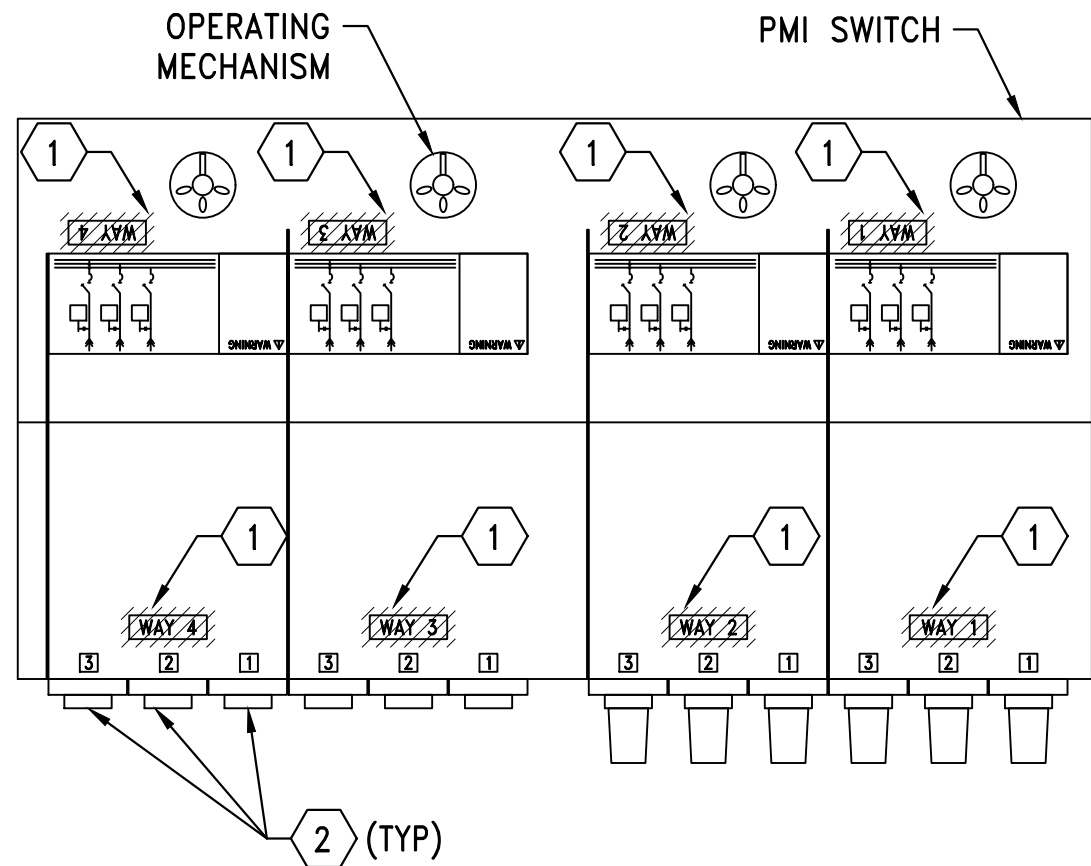
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 44 - 01

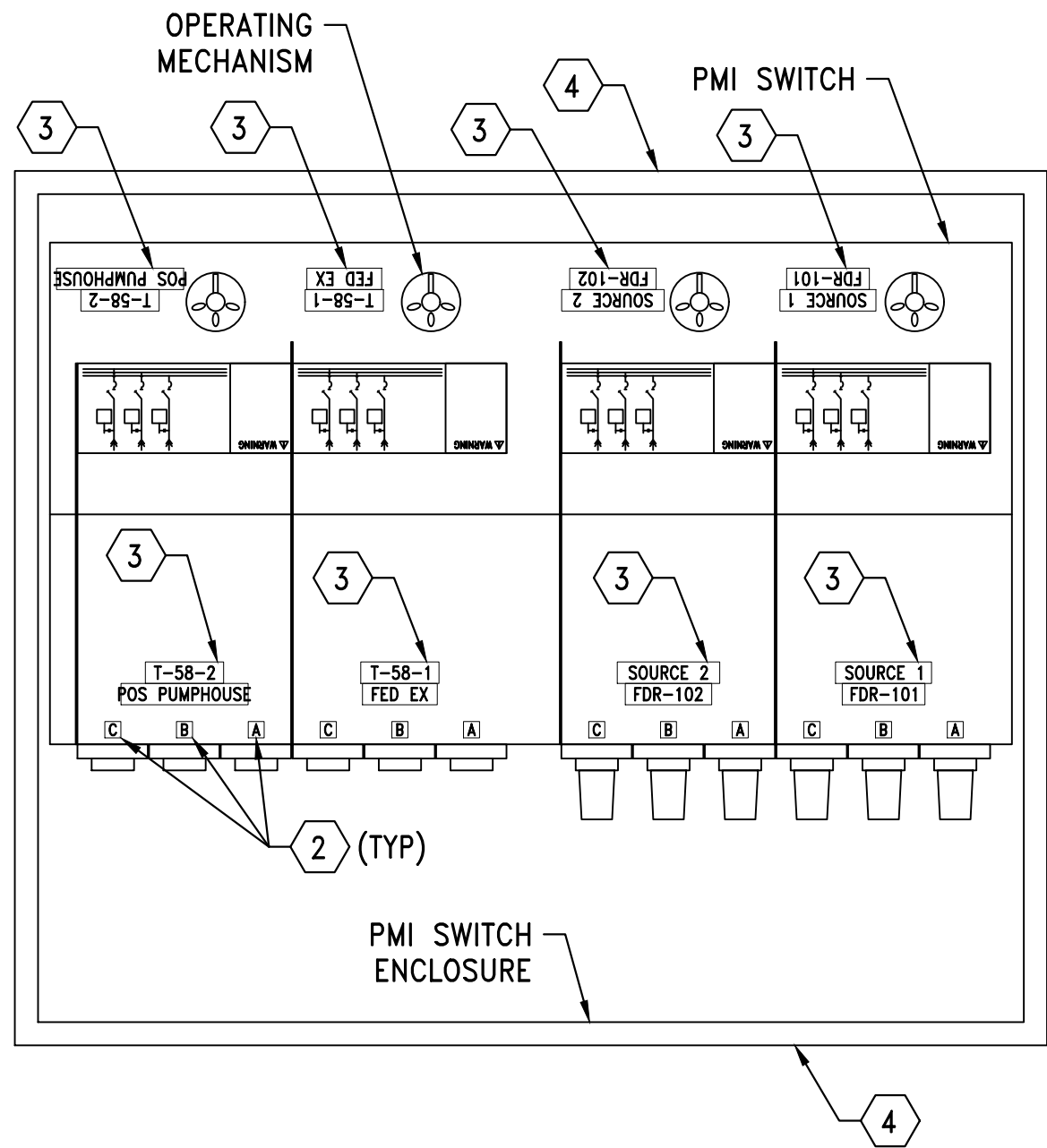
\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I_ELECTRICAL\10_STANDARDS\02_CAB_STANDARDS\01_DIV26_WORKING\DWG\26555-01.DWG - SAVED: 3/14/2025 8:23 PM - MZB266 PLOTTED: 4/7/2025 9:23 AM



DETAIL

PMI SWITCH DEMOLITION
LABELING DIAGRAM
SCALE: NTS

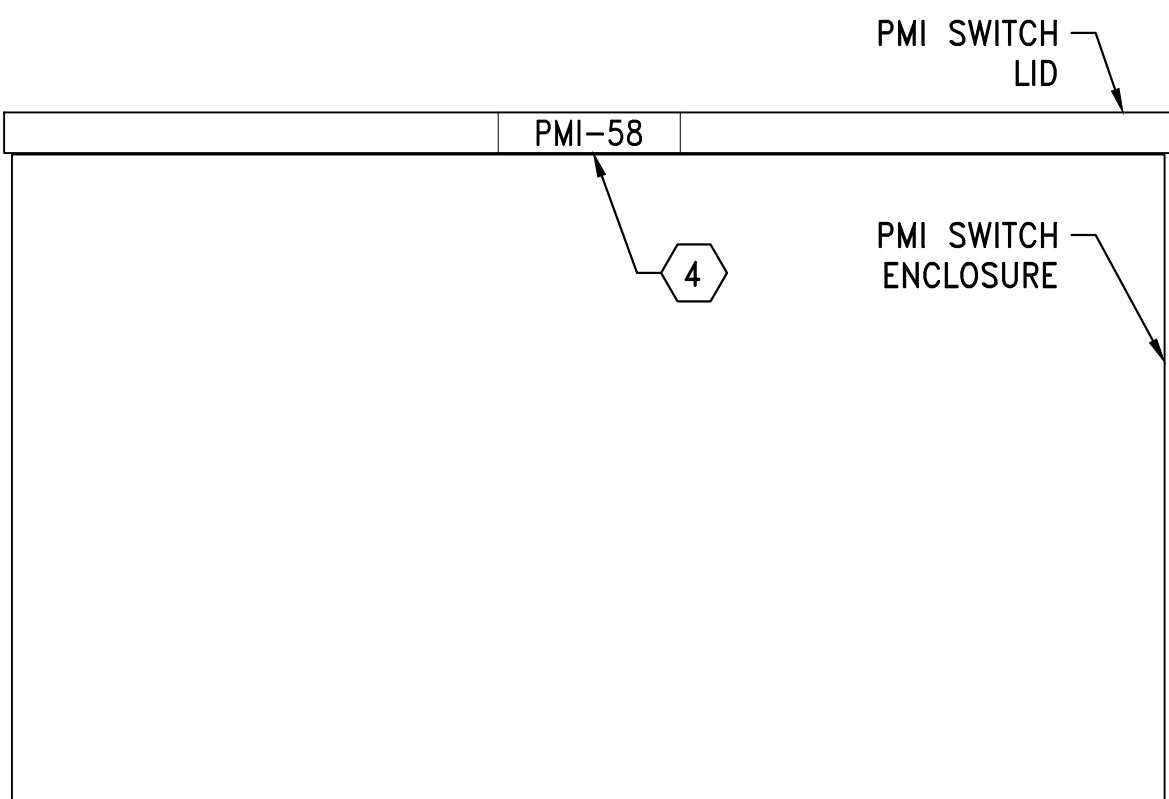
1
—



DETAIL

PMI SWITCH AND ENCLOSURE
LABELING DIAGRAM - TOP VIEW
SCALE: NTS

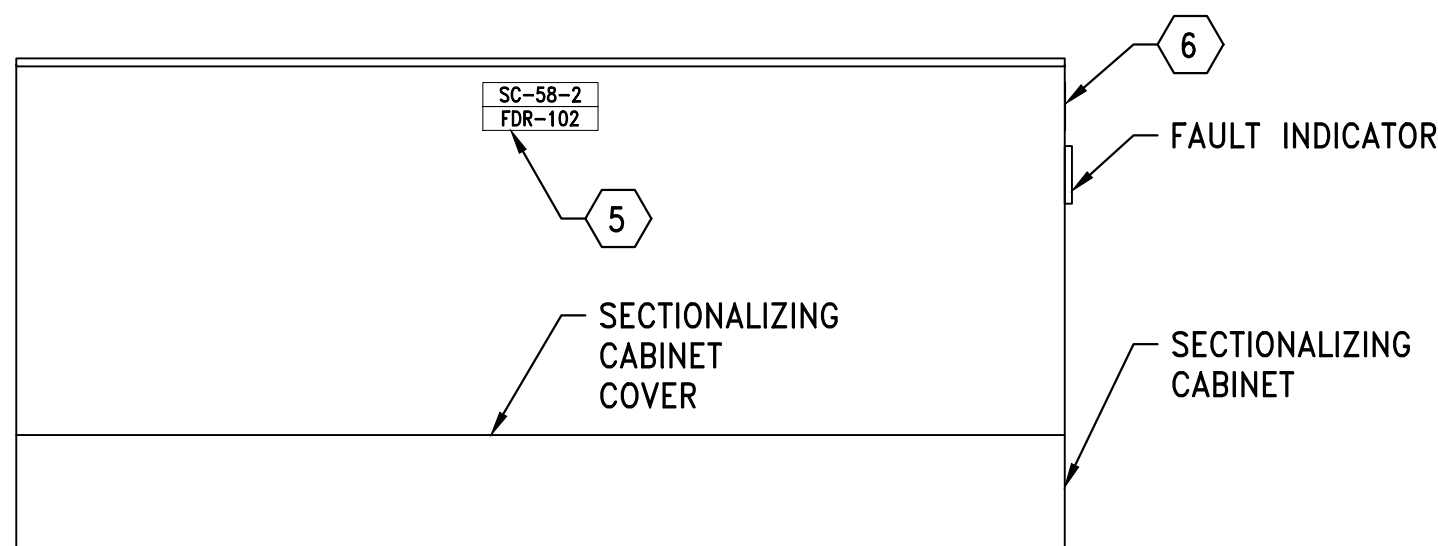
2
—



DETAIL

PMI ENCLOSURE
LABELING DIAGRAM - FRONT VIEW
SCALE: NTS

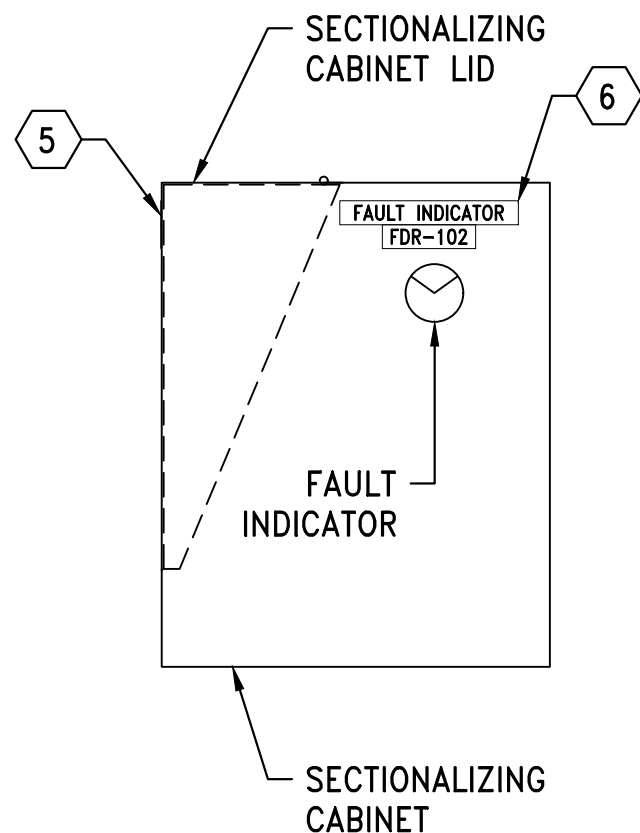
3
—



DETAIL

SECTIONALIZING CABINET
LABELING DIAGRAM - FRONT VIEW
SCALE: NTS

4
—



DETAIL

SECTIONALIZING CABINET
LABELING DIAGRAM - SIDE VIEW
SCALE: NTS

5
—

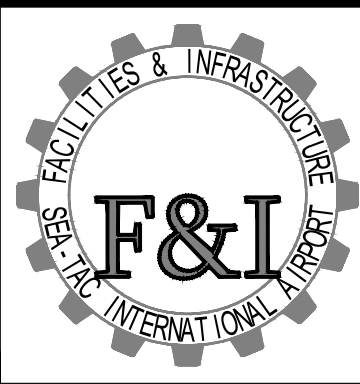
GENERAL NOTES:

1. ALL LABELS SHALL BE MELAMINE PLASTIC LAMINATE FLAT STOCK, 1/16" MIN THICKNESS FOR SIZES UP TO AND INCLUDING 15 SQUARE INCHES. USE 1/8" MIN FOR SIZES LARGER THAN 15 SQUARE INCHES. BLACK BACKGROUND WITH WHITE LETTERS FOR NORMAL POWER SYSTEMS AND RED WITH WHITE LETTERS FOR EMERGENCY POWER SYSTEMS. TEXT SHALL BE 60PT ARIAL FONT.
2. ALL LABELS TO BE APPROVED BY THE ELECTRICAL SHOP.

KEYED NOTES:

- 1 REMOVE EXISTING LABELS SHOWING "WAY 1", "WAY 2", ETC AS SHOWN IN DETAIL 1.
- 2 COVER ALL EXISTING PHASE "1", "2", AND "3" LABELS WITH PHASE "A", "B", AND "C" LABELS RESPECTIVELY AS SHOWN IN DETAILS 1 AND 2.
- 3 INSTALL LABELS GIVING EITHER SOURCE NUMBER (SOURCE 1) AND FEEDER NUMBER (FDR-101) OR TAP NUMBER (T-58-1) AND BRIEF LOAD DESCRIPTION (FED EX) AS SHOWN IN DETAIL 2.
- 4 INSTALL LABEL DISPLAYING PMI NUMBER (PMI-58) ON THE CENTER OF THE FRONT OF THE LID BOTH ON THE OPERATION AND TERMINATION SIDE AS SHOWN IN DETAILS 2 AND 3.
- 5 INSTALL LABEL DISPLAYING SECTIONALIZING CABINET NUMBER AND FEEDER NUMBER (SC-58-1 FDR-102) ON THE CENTER OF THE TOP FRONT OF THE LID AS SHOWN IN DETAILS 4 AND 5.
- 6 INSTALL LABEL ABOVE THE FAULT INDICATOR SHOWING FEEDER NUMBER (FAULT INDICATOR FDR-102) AS SHOWN IN DETAILS 4 AND 5.


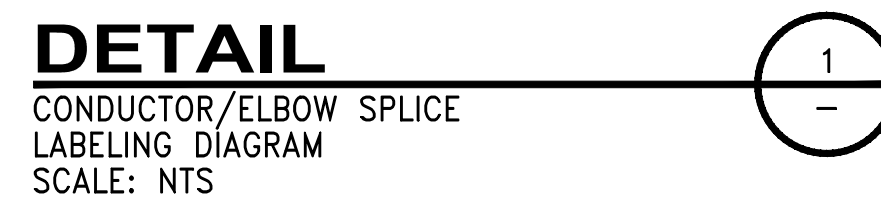
REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS				




PROJECT MANAGER:	—
PROJECT ENGINEER:	—
DESIGN ENGINEER:	—
DRAFTER:	—
SCALE:	N.T.S.
DATE:	—
CHECKED/APPROVED BY:	—

 SEA-TAC INTERNATIONAL AIRPORT PROJECT: F&I STANDARD DETAILS SHEET TITLE: LABELING DETAILS PMI AND SECTIONALIZING CABINET	WORK PROJECT NO.
	CONSULTANT'S NO.
	PORT OF SEATTLE NO. 26 05 53 - 01

1. FOR TAG SPECIFICATIONS, REFERENCE POS STANDARD DETAIL SHEET 260553-04 : TAG SPECIFICATIONS.





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SEA-TAC INTERNATIONAL AIRPORT

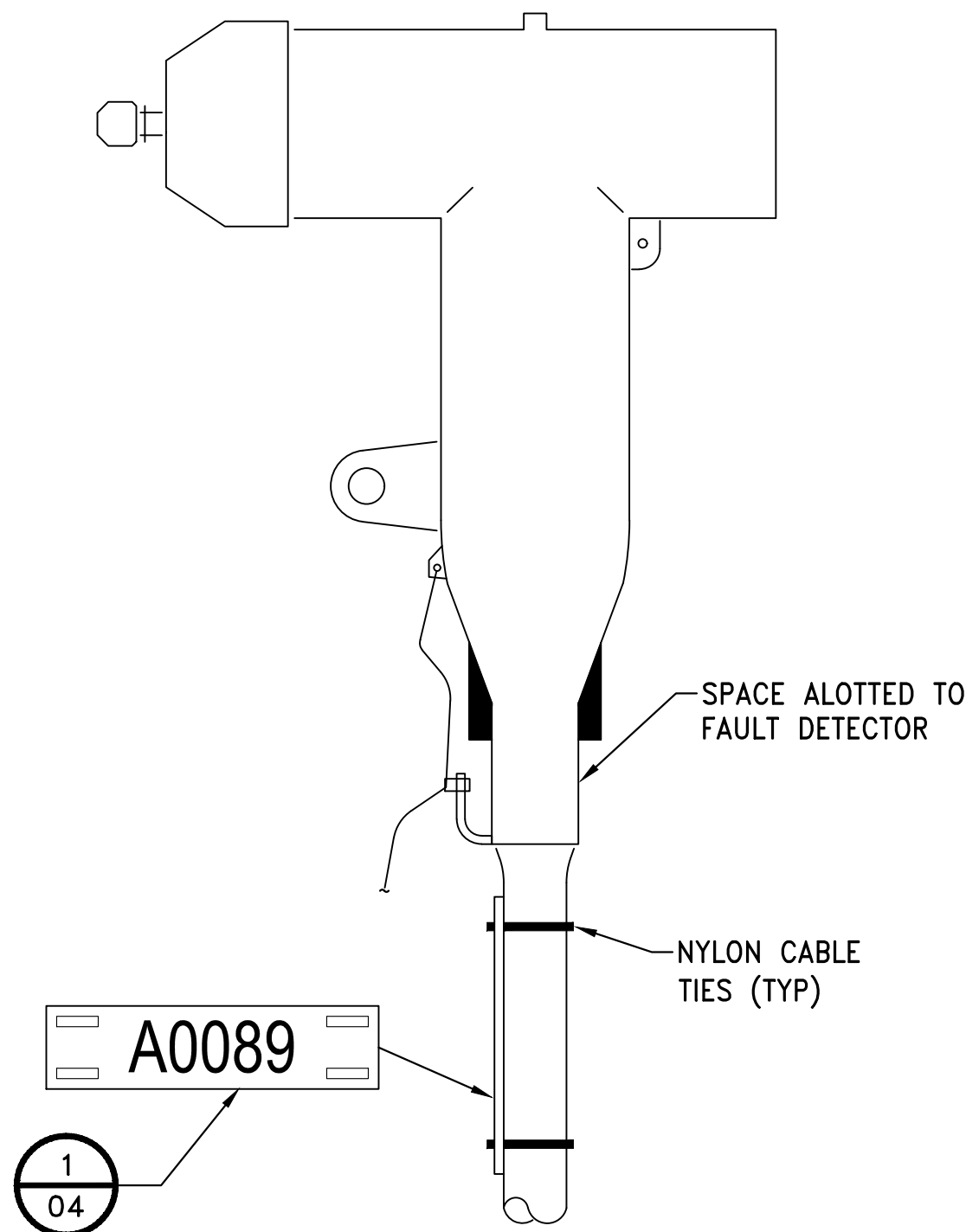
PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS 12KV CONDUCTOR ELBOW TAG
PLACEMENT**

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV261-WORKING\DWG\260553-03.DWG SAVED: 3/13/2025 4:22 PM MZB261 PLOTTED: 4/7/2025 9:23 AM

GENERAL NOTES:

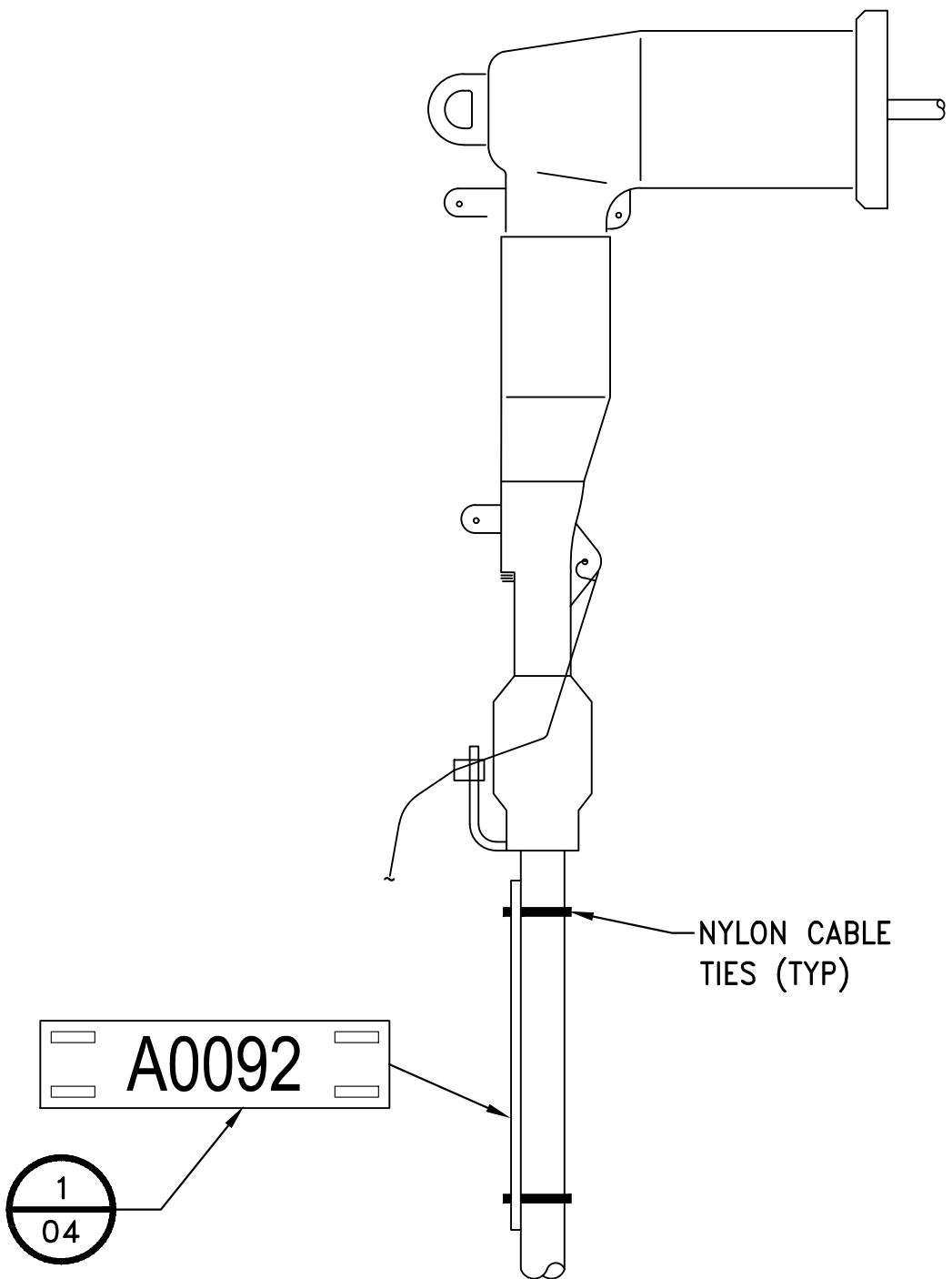
1. FOR TAG EXAMPLES AND SPECIFICATIONS, REFERENCE POS STANDARD DETAIL SHEET 260553-04 : TAG SPECIFICATIONS.



DETAIL

600A ELBOW TERMINATION
LABELING DETAIL
SCALE: NTS

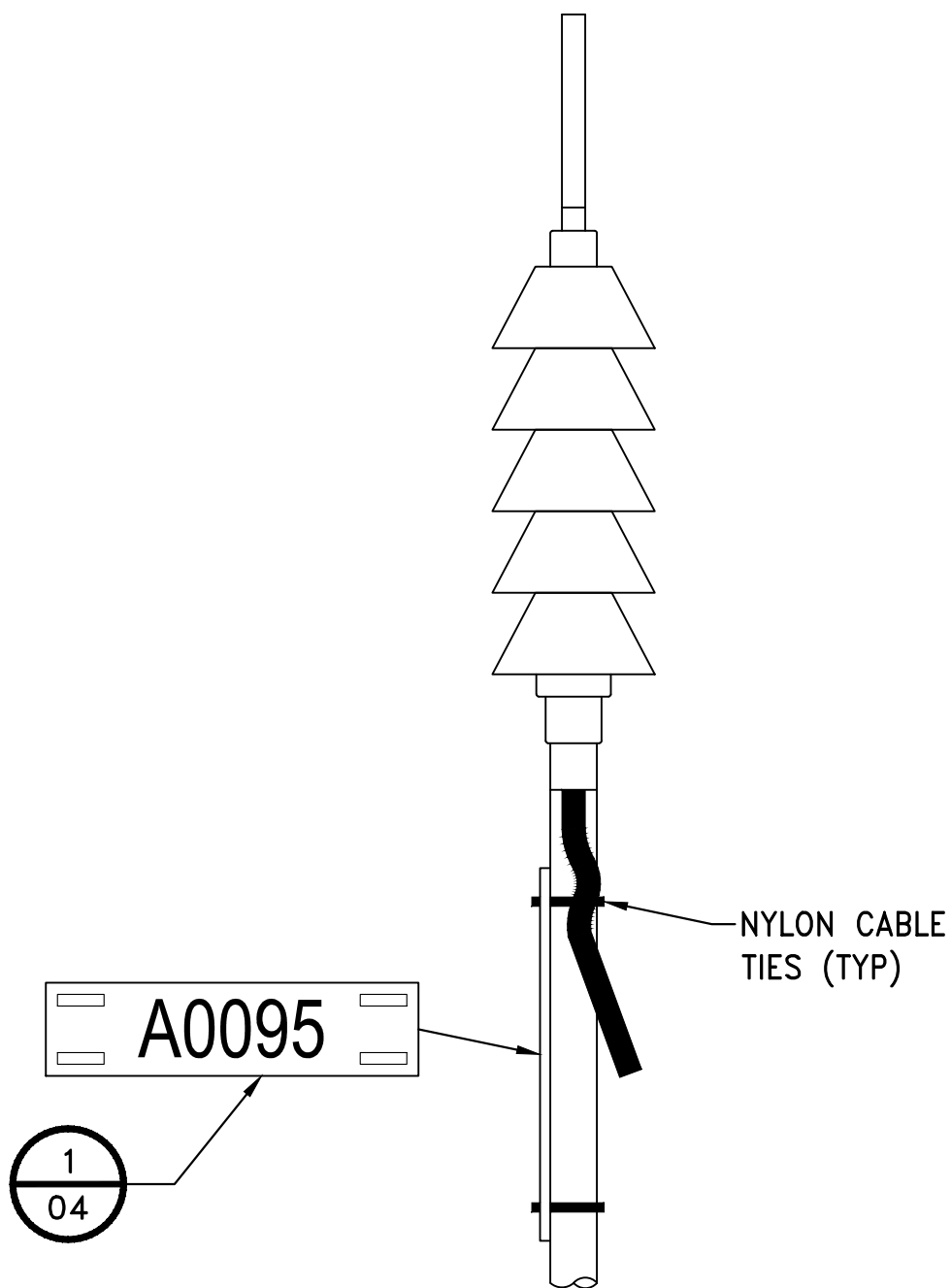
1
02



DETAIL

200A ELBOW TERMINATION
LABELING DETAIL
SCALE: NTS

2
02

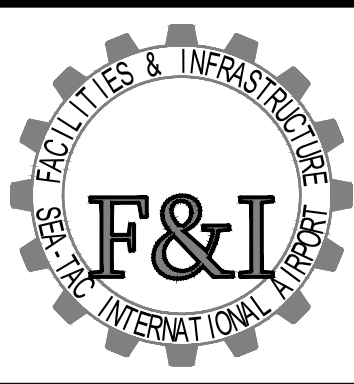


DETAIL

600A STRESS CONE TERMINATION
LABELING DETAIL
SCALE: NTS

3
02

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
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N.T.S.
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **MEDIUM VOLTAGE CABLE INSULATION TEST DATA SHEET**

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

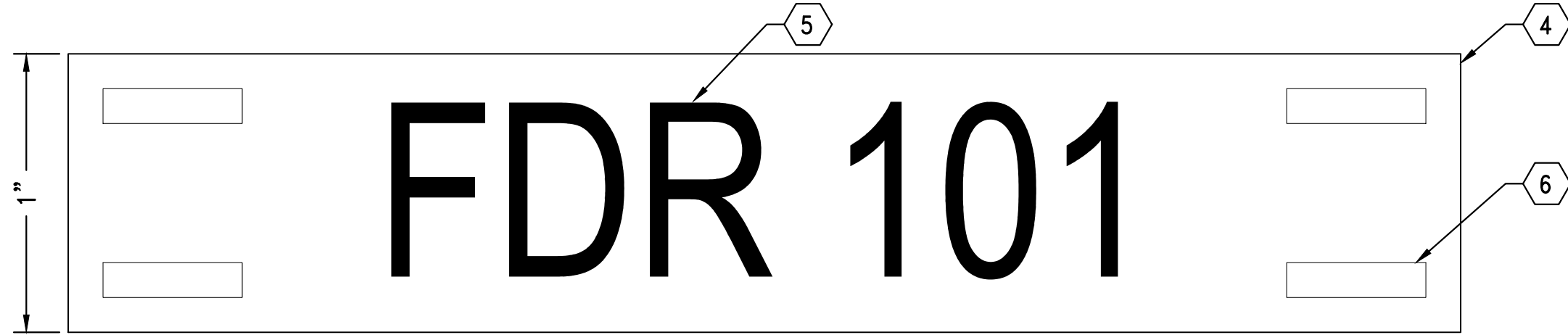
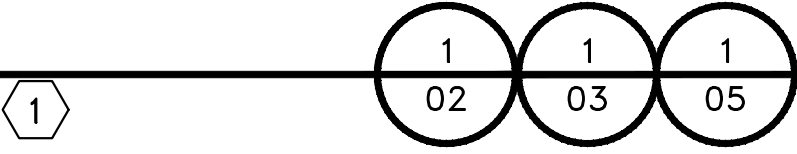
26 05 13 - 03

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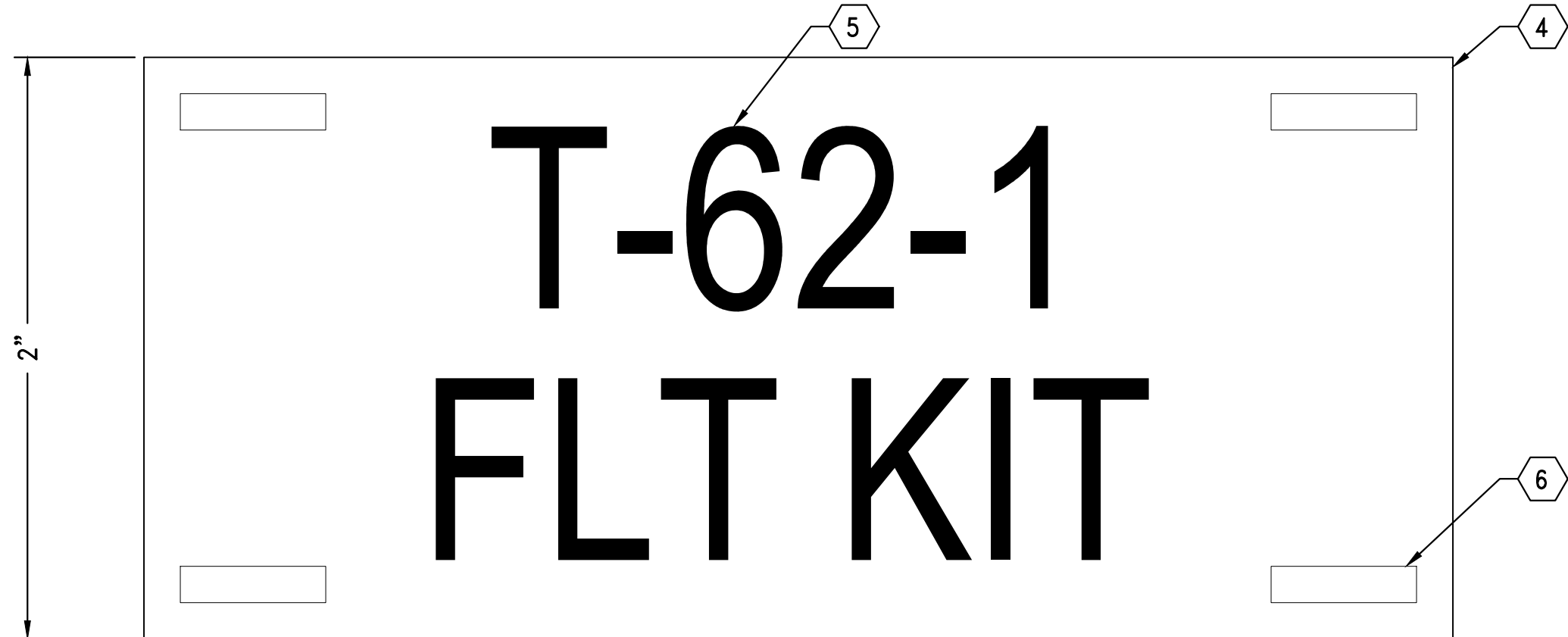
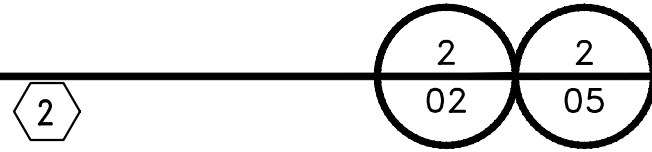
DETAIL

CABLE TAG EXAMPLE
SCALE: 1"=1"



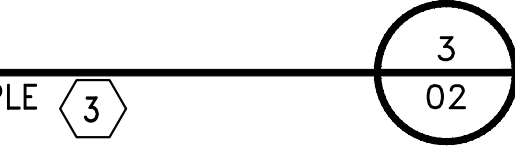
DETAIL

CIRCUIT TAG EXAMPLE
SCALE: 1"=1"



DETAIL

TAP/LOAD TAG EXAMPLE
SCALE: 1"=1"

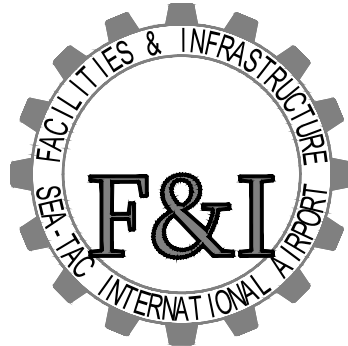


KEYED NOTES:

- 1 CABLE TAG SHALL DISPLAY A UNIQUE CABLE NUMBER FOR EACH PHASE OF EACH SECTION OF CABLE. FOLLOWING IS A BRIEF DESCRIPTION:
XXXX
X REPRESENTS THE PHASE OF THE CABLE
YYYY IS THE UNIQUE CABLE NUMBER
CONTACT BRENDON INMAN, ELCON ASSOCIATES, (206) 243-5022 TO REQUEST CABLE NUMBERS.
- 2 CIRCUIT TAG SHALL DISPLAY THE FEEDER NUMBER. FOR EXAMPLE, FEEDER 207 WOULD BE LABELED "FDR 207".
- 3 TAP/LOAD TAG SHALL BE INSTALLED ON ALL TAPS FROM SWITCHES. THEY SHALL DISPLAY BOTH THE SWITCH NUMBER AND AN ABBREVIATED LOAD DESCRIPTION. THE ABBREVIATION IS TO BE DETERMINED BY THE ENGINEER AND APPROVED BY THE POS. FOLLOWING IS A BRIEF DESCRIPTION OF A TAP LABEL:
T-XXX-Y
T = INDICATES THAT THE CABLE IS A TAP FROM A SWITCH
XXX = THE SWITCH NUMBER WHICH FEEDS THE TAP
Y = THE TAP NUMBER AT THE SWITCH WHICH THE CABLE IS CONNECTED TO
AN EXAMPLE OF A TYPE III TAG FOR THE FEED TO THE FLIGHT KITCHEN TRANSFORMER FROM PMI SWITCH NUMBER 62, TAP NUMBER 1 COULD BE: FLTKIT T-62-1
- 4 ALL LABELS SHALL BE MELAMINE PLASTIC LAMINATE FLAT STOCK, 1/16" MIN THICKNESS FOR SIZES UP TO AND INCLUDING 15 SQUARE INCHES. USE 1/8" MIN FOR SIZES LARGER THAN 15 SQUARE INCHES. WHITE BACKGROUND WITH BLACK LETTERS FOR NORMAL POWER SYSTEMS AND RED BACKGROUND WITH WHITE LETTERS FOR EMERGENCY POWER SYSTEMS.
- 5 TEXT SHALL BE 60PT ARIAL. CABLE AND CIRCUIT TAGS SHALL BE 1" TALL AND TAP/LOAD TAGS SHALL BE 2" TALL WITH THE LENGTH ACCORDING TO THE NUMBER OF CHARACTERS IN THE TAG.
- 6 TAGS SHALL CONTAIN HOLES IN ALL FOUR CORNERS FOR TY-RAPPING TAGS TO MEDIUM VOLTAGE CABLES.

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: F&I STANDARD DETAILS

SHEET TITLE: LABELING DETAILS TAG SPECIFICATIONS

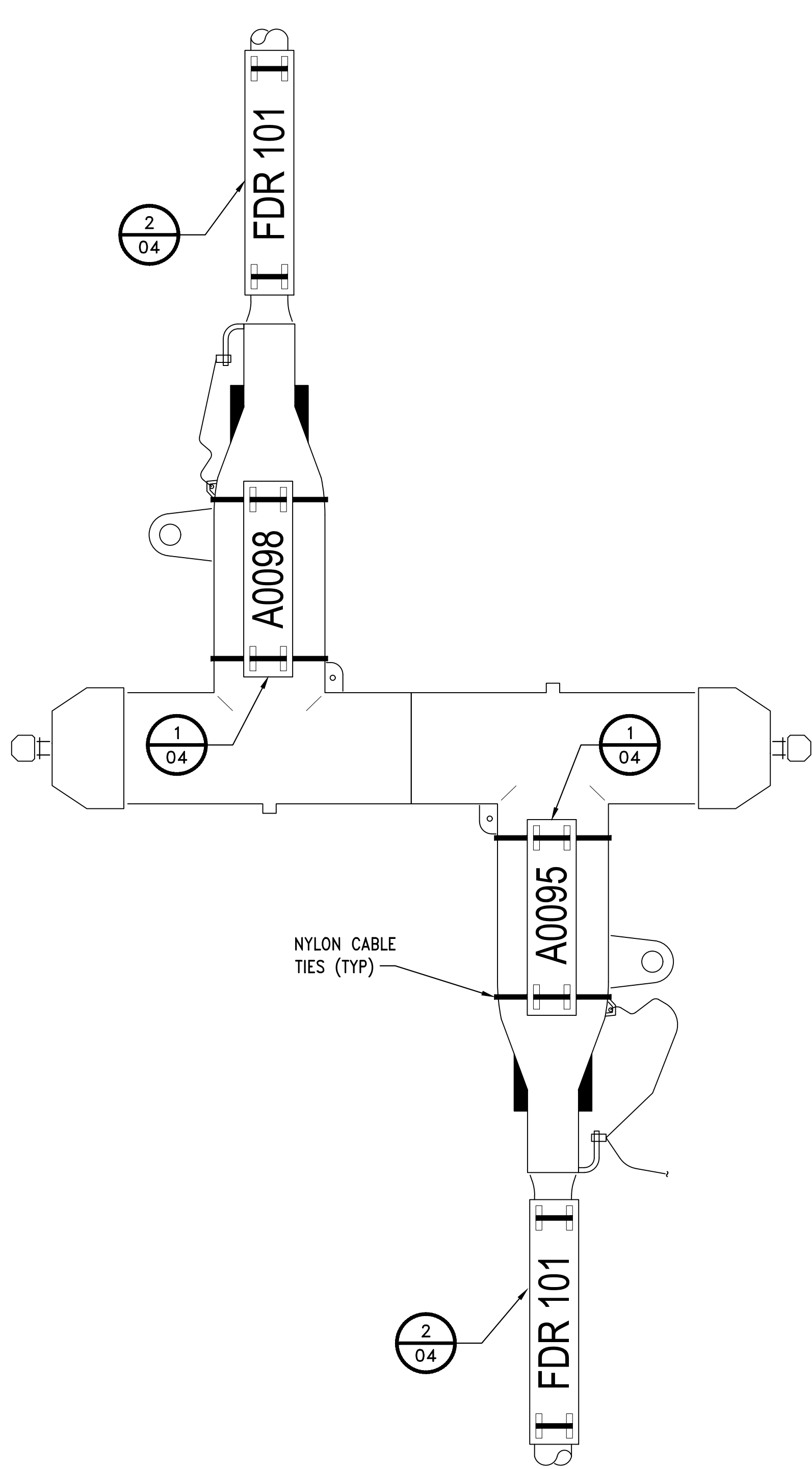
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 53 - 04

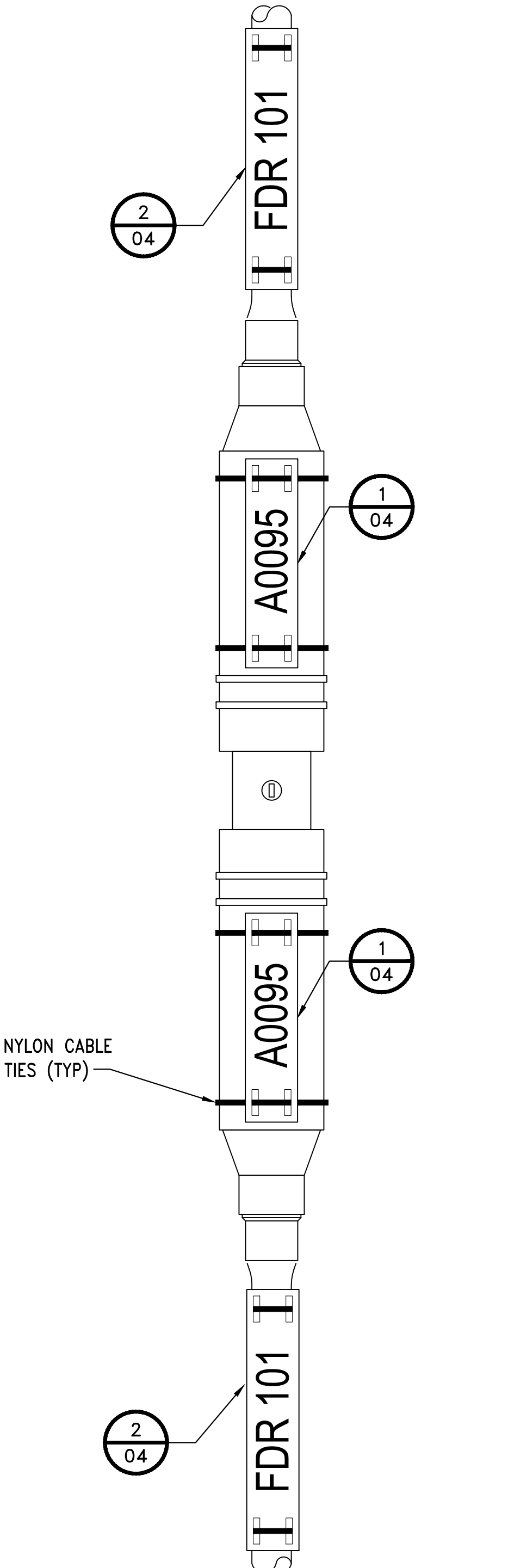
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\01-DIV26\WORKING\DWG\260553-05.DWG - SAVED: 3/13/2025 4:31 PM - MZB266 PLOTTED: 4/7/2025 9:23 AM



DETAIL

600A ELBOW SPLICE
LABELING DETAIL
SCALE: NTS

1
02



DETAIL

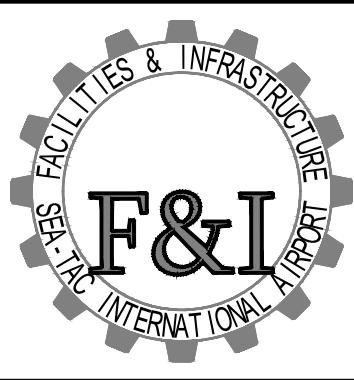
SEPARABLE SPLICE
LABELING DETAIL
SCALE: NTS

2
02


GENERAL NOTES:

1. FOR TAG EXAMPLES AND SPECIFICATIONS, REFERENCE POS STANDARD DETAIL 260553-04 : TAG SPECIFICATIONS.

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS 12KV SPLACE TAG PLACEMENT**

WORK PROJECT NO.

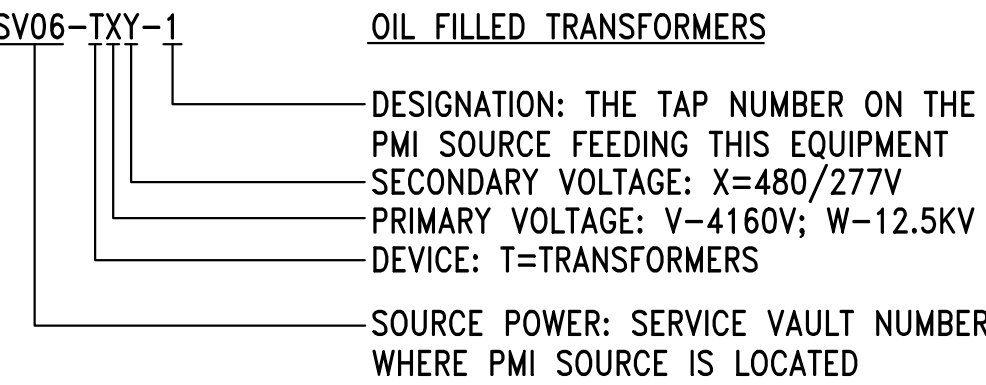
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PORT OF SEATTLE NO.

26 05 53 - 05

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\01-DIV26\WORKING\DWG\260553-06.DWG:SAVED: 3/13/2025 4:38 PM AZB926 PLOTTED:4/7/2025 9:23 AM

EQUIPMENT IDENTIFICATION

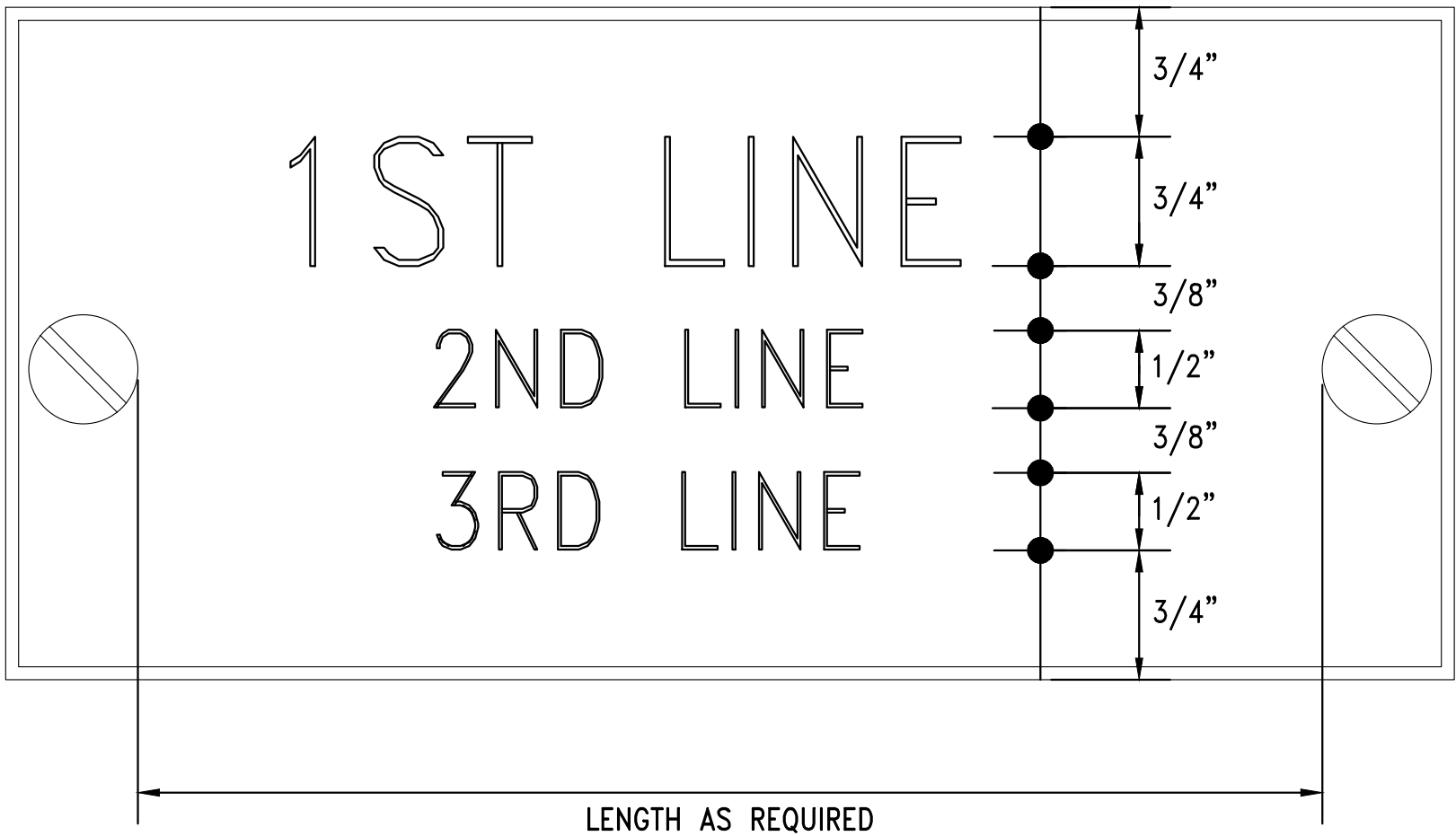


LETTERING: ARRANGE ALL LETTERING TO THE CENTER OF PLATE.
USE ONE, TWO OR THREE LINES OF LETTERING AS SHOWN ON
NAMEPLATE SCHEDULE.

1ST LINE
NAME OF OUTDOOR MEDIUM VOLTAGE TRANSFORMER

2ND LINE
IDENTIFY DOWNSTREAM EQUIPMENT. ENTER "FEEDS" ON THE 2ND
LINE, FOLLOWED BY NAME OF THE DOWNSTREAM EQUIPMENT.

3RD LINE
IDENTIFY UPSTREAM SOURCE. ENTER "FED FROM" ON THE 3RD
LINE, FOLLOWED BY NAME OF THE UPSTREAM SOURCE EQUIPMENT.



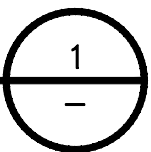
MATERIAL: LAMINATED PHENOLIC PLASTIC, 1/16" THICK, DULL BLACK SURFACE.

ENGRAVING: ENGRAVE THROUGH BLACK SURFACE TO EXPOSE CORE.
LETTERING STYLE TO BE AS SHOWN ABOVE.

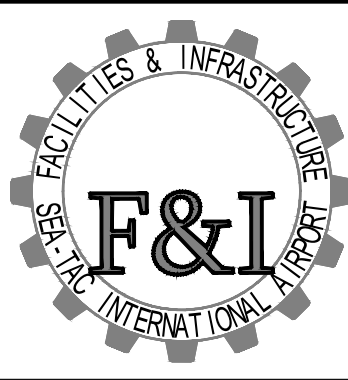
FOR METAL EQUIPMENT, ATTACH TAG WITH RIVETS OR SCREWS. DO NOT
DAMAGE EQUIPMENT WHEN DRILLING HOLES FOR ATTACHMENT.

DETAIL


OUTDOOR MEDIUM VOLTAGE
TRANSFORMER LABELS
SCALE: NTS



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS TRANSFORMER LABELS**

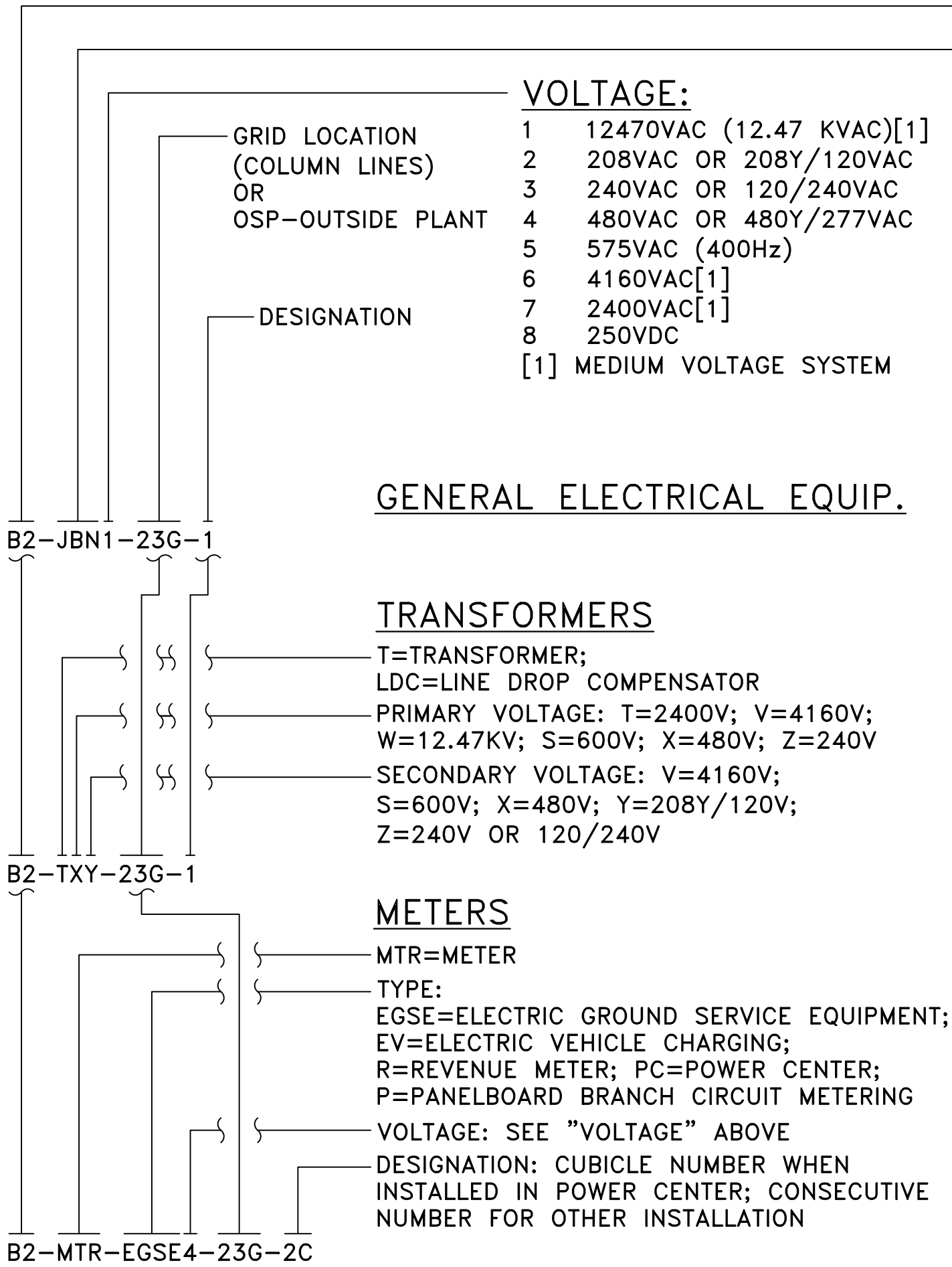
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 05 53 - 06

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02_CAD-STANDARDS\01_DIV26_WORKING\DWG\26555-07.DWG - SAVED: 3/13/2025 4:51 PM - MZB26 WORKING



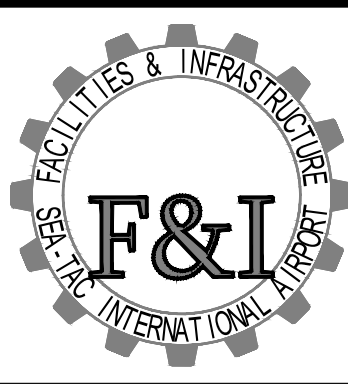
ELECTRICAL EQUIPMENT:	
ATS	AUTOMATIC TRANSFER SWITCH
BC	PANELBOARD, BAGGAGE CONVEYOR
CAB	CABINET/ENCLOSURE
CAP	POWER FACTOR CORRECTION CAPACITOR BANK
CB	ENCLOSED CIRCUIT BREAKER AND NUMBER
DE	DISTRIBUTION CENTER, EMERGENCY (NEC 700)
**DP	DISTRIBUTION CENTER, NORMAL POWER
DR	DISTRIBUTION CENTER, LEGALLY REQUIRED (NEC 701)
DS	DISTRIBUTION CENTER, OPTIONAL STANDBY (NEC702)
ESGE	ELECTRIC GROUND SERVICE EQUIPMENT
EV	ELECTRIC VEHICLE CHARGING EQUIPMENT
GEN	ENGINE GENERATOR
GTW2	METER GATEWAY, 200E
GTW4	METER GATEWAY, 400E
GTW6	METER GATEWAY, 600E
GTW8	METER GATEWAY, 800E
GTW9	METER GATEWAY, 900E
JBE	JUNCTION BOX, EMERGENCY POWER
JBN	JUNCTION BOX, NORMAL POWER
LCP	LIGHTING CONTROL PANEL
LTCC	LIGHTING CONTROLS, CONTACTOR
LTCM	LIGHTING CONTROLS, MOTION SENSOR
LTCO	LIGHTING CONTROLS, OCCUPANCY SENSOR
LTCD	LIGHTING CONTROLS, DAYLIGHT SENSOR
LTCP	LIGHTING CONTROLS, PHOTOCELL
LTCS	LIGHTING CONTROLS, SWITCH
LTCT	LIGHTING CONTROLS, TIMER
MC	METER CABINET
MCC	MOTOR CONTROL CENTER
ME	MAIN SWITCHGEAR, EMERGENCY (NEC 700)
**MP	MAIN SWITCHGEAR, NORMAL POWER
MR	MAIN SWITCHGEAR, LEGALLY REQUIRED (NEC 701)
MS	MAIN SWITCHGERA, OPTIONAL STANDBY (NEC 702)
MTS	MANUAL TRANSFER SWITCH
**PE	PANELBOARD, EMERGENCY (NEC 700)
PGCS	PORTABLE GENERATOR CONNECTION SWITCHBOARD
**PL	PANELBOARD, LIGHTING
**PP	PANELBOARD, NORMAL POWER
**PR	PANELBOARD, LEGALLY REQUIRED (NEC 701)
**PS	PANELBOARD, OPTIONAL STANDBY (NEC 702)
R400	ROTARY 400HZ CONVERTER
SC	SECTIONALIZER CABINET
STR	MOTOR STARTER
SW	ENCLOSED SWITCH

TVS	TRANSIENT VOLTAGE SUPPRESSION
UPS	UNINTERRUPTIBLE POWER SUPPLY
UPSL	UNINTERRUPTIBLE POWER SUPPLY FOR LIGHTING INVERTER
VFD	VARIABLE FREQUENCY DRIVE
WSWGR	WALK-IN SWITCHGEAR ENCLOSURE.


BUILDING AND LEVEL IDENTIFIERS

CONCOURSE A:	A1=TRANSIT; A2=RAMP; A3=CONCOURSE LEVEL; A4=MEZZANINE; A5=ROOF/PENTHOUSE
CONCOURSE B:	B1=TRANSIT; B2=RAMP; B3=CONCOURSE LEVEL; B4=MEZZANINE; B5=ROOF/PENTHOUSE
CONCOURSE C:	C1=TRANSIT; C2=RAMP; C3=CONCOURSE LEVEL; C4=MEZZANINE; C5=ROOF/PENTHOUSE
C1 BUILDING:	C1.2 = RAMP; C1.3 = CONCOURSE LEVEL; C1.4 = MEZZANINE; C1.5 = ROOF
CONCOURSE D:	D1=TRANSIT; D2=RAMP; D3=CONCOURSE LEVEL; D4=MEZZANINE; D5=ROOF/PENTHOUSE
INTERNATIONAL ARRIVALS FACILITY (IAF):	IAF2= RAMP; IAF3 = CONCOURSE LEVEL; IAF4 = CBP OFFICE LEVEL; PW1 = PEDESTRIAN WALKWAY 10000
SOUTH TERMINAL:	A1=TRANSIT/BASEMENT; A2=BAGGAGE CLAIM; ABL=BRIDGE LEVEL; A3=TICKETING; A4=MEZZANINE; PH=PENTHOUSE; AO1=OFFICE LEVEL 1; AO2=OFFICE LEVEL 2; AO3=OFFICE LEVEL 3; AO4=OFFICE LEVEL 4; AO5=OFFICE LEVEL 5; NOTE: ADD CW IF LOCATED ON CATWALK. EXAMPLE: A2CW-BC4-A26AA-1.
MAIN TERMINAL:	MLD=LOADING DOCK; MT=TRANSIT; MBW=BAGWELL; MBC=BAGGAGE CLAIM; MBL=BRIDGE LEVEL; M1=1ST FLOOR; M2=2ND FLOOR; MMZ=MEZZANINE; M3=3RD FLOOR; M4=4TH FLOOR; M5=5TH FLOOR; MTW=TOWER; MPH=PENTHOUSE; MB=BASEMENT IN CTE. NOTE: ADD CW IF LOCATED ON CATWALK. EXAMPLE: MBWCW-BC4-R14G-1.
N CONCOURSE:	N1=TRANSIT; N2=RAMP; N3=CONCOURSE; N4=MEZZANINE; N5=ROOF/PENTHOUSE
S CONCOURSE:	SB=BASEMENT; S1=TRANSIT; S2=MEZZANINE; S3=RAMP; S4=INTERNATIONAL CORRIDOR; S5=CONCOURSE; S6=ROOF/PENTHOUSE
PARKING GARAGE:	PLL=LOWER LEVEL; P1=1ST FLOOR; P2=2ND FLOOR; P3=3RD FLOOR; P4=4TH FLOOR; P5=5TH FLOOR; P6=6TH FLOOR; P7=7TH FLOOR; P8=8TH FLOOR; PPH=PENTHOUSE; PST=SOUTH TOLL PLAZA; PNT=NORTH TOLL PLAZA
AIRPORT CAMPUS BUILDING:	USE AIRPORT FACILITIES BUILDING NUMBERS TYPICALLY THREE (3) DIGITS AND THEN A LETTER (161A). THEN A PERIOD "." THEN A NUMBER INDICATING FLOOR LEVEL. EXAMPLE: 161A.1-PP2-10G-1, IS A 208Y/120V PANELBOARD THAT IS INSIDE BUILDING 161A ON THE FIRST LEVEL NEAR GRID INTERSECTION 10G. IF THERE IS AN ELECTRICAL EQUIPMENT ASSOCIATED WITH THE BUILDING (I.E. METER ENCLOSURE) BUT IS INSTALL OUTSIDE OF THE BUILDING. IT WOULD HAVE THE NAMING CONVENTION OF 156A.1-MC4-OSP-1, IS A 480Y/277V METER CABINET THAT IS OUTSIDE BUILDING 156A ON GRADE. NOTE: SOME ELECTRICAL EQUIPMENT MAY UTILIZE OLDER NAMING SCHEMA. NOTE: OUTDOOR REFERS TO AREAS OUTSIDE OF A BUILDING. AIR CARGO BUILDINGS AND HARDSTANDS, FIRE STATION, ETC, ARE CONSIDERED OUTSIDE PROPERTIES. OSP=OUTSIDE BUILDING; CAR2=AIR CARGO 2; CAR3=AIR CARGO 3; CAR4=AIR CARGO 4; CAR5=AIR CARGO 5; CAR6=AIR CARGO 6; CAR7=AIR CARGO 7 OLDER NAMING SCHEMA F&I IS TRANSITIONING TO BUILDING NUMBER SEE "AIRPORT CAMPUS BUILDING" ABOVE: TRANS=TRANSIPLEX; FD=FIRE DEPARTMENT; LOG=LOGISTICS; PH=PUMPHOUSE; IWTP=INDUSTRIAL WASTE TREATMENT PLANT; BIF=BIFFY DUMP; SS=SNOW SHED; TTL=TAXI TRANSIT LOT; MIDRVR=MIDFIELD RVR; WEY=WEYERHAEUSER HANGAR
OUTDOOR:	

R E V I S I O N S							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	0/04/2023	KDM	2023 F&I STANDARD DETAILS				
4	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

 SEA-TAC INTERNATIONAL AIRPORT
PROJECT: F&I STANDARD DETAILS
SHEET TITLE: LABELING DETAILS EQUIPMENT NAMING CONVENTION 1

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 53 - 07

SEE "LABELING DETAILS EQUIPMENT NAMING CONVENTION 1" ON
STANDARD DETAIL SHEET 26 05 53 - 07 FOR FURTHER INFORMATION

MEDIUM-VOLTAGE INTERRUPTER SWITCHGEAR
TYPE: PSF=PRIMARY SWITCH FUSED; PSNF=PRIMARY SWITCH NON-FUSED;
PST=PRIMARY SWITCH TIE; PSB=PRIMARY SWITCH W/ BREAKER
VOLTAGE: 1=12.47KV; 6=4160V; 7=2400V
GRID LOCATION (COLUMN LINES)
DESIGNATION

B2-PSF1-23G-1

**MEDIUM-VOLTAGE METAL-CLAD DRAWOUT CIRCUIT
BREAKER SWITCHGEAR**

DCB=DRAWOUT CIRCUIT BREAKER
VOLTAGE: 1=12.47KV; 6=4160V; 7=2400V
TYPE: S=SWITCHGEAR; T=BUS TIE BREAKER; M=MAIN BREAKER;
F=FEEDER BREAKER
GRID LOCATION (COLUMN LINES)
DESIGNATION

B2-DCB1T-23G-1

MEDIUM-VOLTAGE MOTOR CONTROLLERS

MMC=MEDIUM-VOLTAGE MOTOR CONTROLLER
GRID LOCATION (COLUMN LINES)
DESIGNATION

B2-MMC-23G-1

**MEDIUM-VOLTAGE PAD-MOUNTED VACUUM
INTERRUPTER SWITCHGEAR (PMI)**

PMI=PAD-MOUNTED VACUUM INTERRUPTER SWITCHGEAR (OUTDOOR);
VFI=VACUUM FAULT INTERRUPTER SWITCHGEAR (INDOOR)
TYPE: 3=3-WAYS; 4=4 WAYS; 5=5 WAYS; 6=6 WAYS
MANHOLE NUMBER (OUTDOOR); GRID LOCATION (COLUMN LINES) (INDOOR)
DESIGNATION

B2-PMI4-23G-1

SEE "LABELING DETAILS EQUIPMENT NAMING CONVENTION 1" ON
STANDARD DETAIL SHEET 26 05 53 - 07 FOR FURTHER INFORMATION

FIRE ALARM SYSTEM

TYPE: FA=FIRE ALARM PANEL [SEE NOTE 1];
FD=FIRE ALARM DATA GATHERING PANEL [SEE NOTE 1];
FI=FIRE ALARM I/O PANEL [SEE NOTES 1, 2];
FL=FIRE ALARM LOCAL OPERATOR CONSOLE [SEE NOTE 1];
FN=FIRE ALARM NETWORK PANEL [SEE NOTES 1, 2];
FR=FIRE ALARM RELAY PANEL [SEE NOTES 1, 2];
FS=FIRE ALARM SUB-PANEL [SEE NOTES 1, 2];
FT=FIRE ALARM TFX EXTENDER PANEL [SEE NOTE 1];
FU=FIRE ALARM ANNUNCIATOR PANEL [SEE NOTE 1];
FX=FIRE ALARM SIMPLEX EXTENDER PANEL

PANEL SERIES: B=SYSTEM 3;
L=SIMPLEX 4007 SERIES;
S=SIMPLEX 4100 SERIES;
T=TFX SERIES

GRID LOCATION (COLUMN LINES)

DESIGNATION

FIRE DEPARTMENT NODE (OLD ID NUMBER)

B2-FXX-23G-1.###

NOTES:

- THESE ARE LEGACY TERMINOLOGY AND SHALL NOT BE USED FOR NEWER INSTALLATIONS (I.E. SIMPLEX 4100, 4007 SERIES)
- NOT CURRENTLY USED.


\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I_ELECTRICAL\10_STANDARDS\02_CAD_STANDARDS\01_DIV26_WORKING\DWG\260553-DB.DWG - SAVED: 3/13/2025 5:02 PM - MZB26 PLOTTED: 4/7/2025 9:23 AM

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	01/20/2023	MDR	2023 F&I STANDARD DETAILS						
4	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



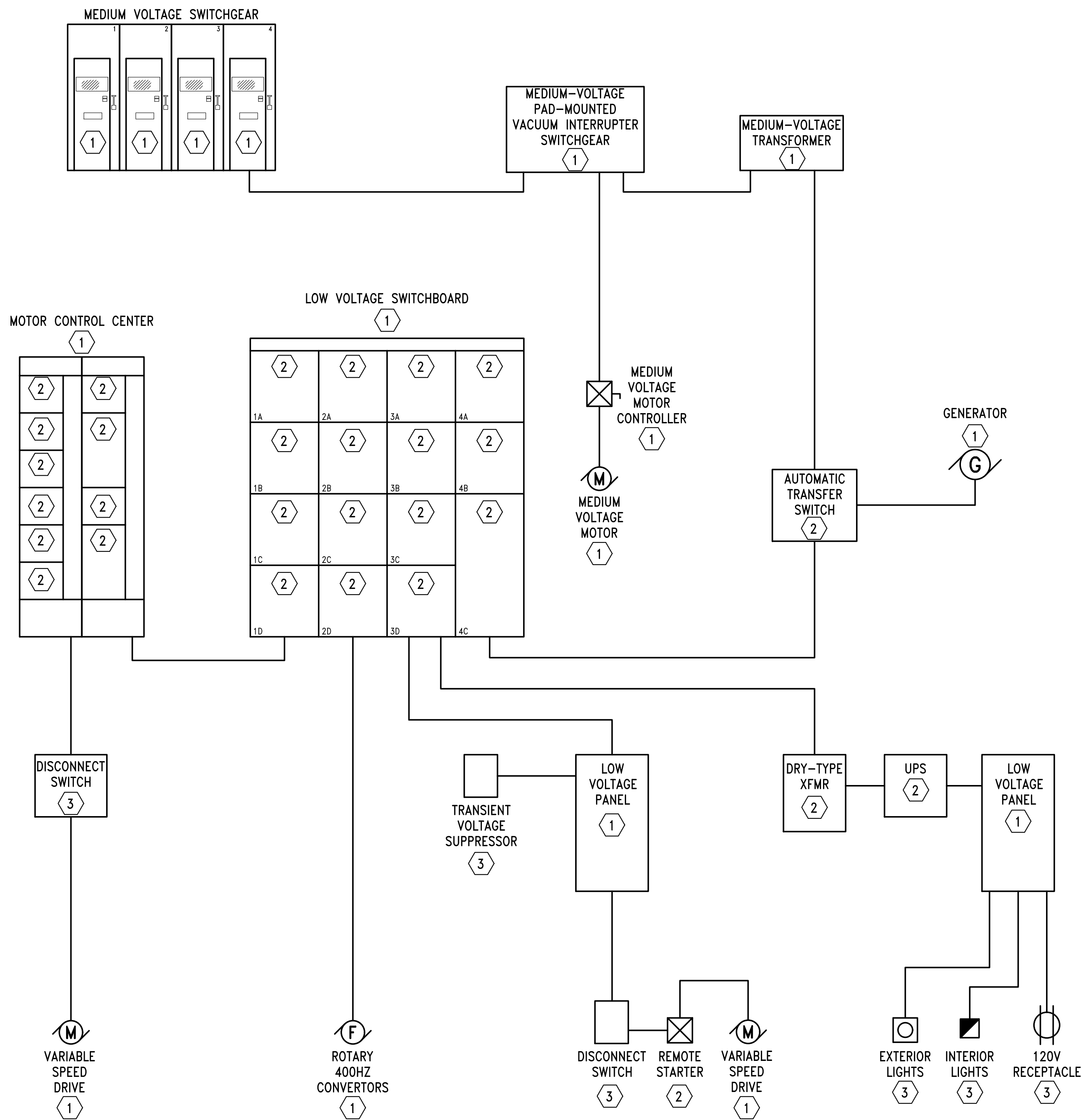
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS EQUIPMENT NAMING CONVENTION 2**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 53 - 08

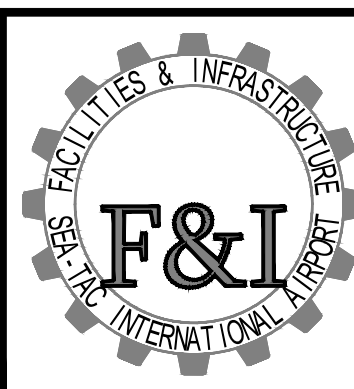
\\SEATTLEINTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10-STANDARDS\02_CAD STANDARDS\01_DIVES\WORKING\DWG\260553-09 - LABELING DIAGRAM.DWG, Saved: 4/7/2025 9:12 AM, MZB026 PLOTTED: 4/7/2025 9:30 AM



KEYED NOTES:

- 1 INSTALL LABEL WITH 5/8" HIGH TEXT. REFERENCE DETAIL SHEET 260553-11.
- 2 INSTALL LABEL WITH 1/4" HIGH TEXT. REFERENCE DETAIL SHEET 260553-12.
- 3 INSTALL SMALL LABEL. REFERENCE DETAIL SHEET 260553-13.

REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS EQUIPMENT LABELING DIAGRAM**

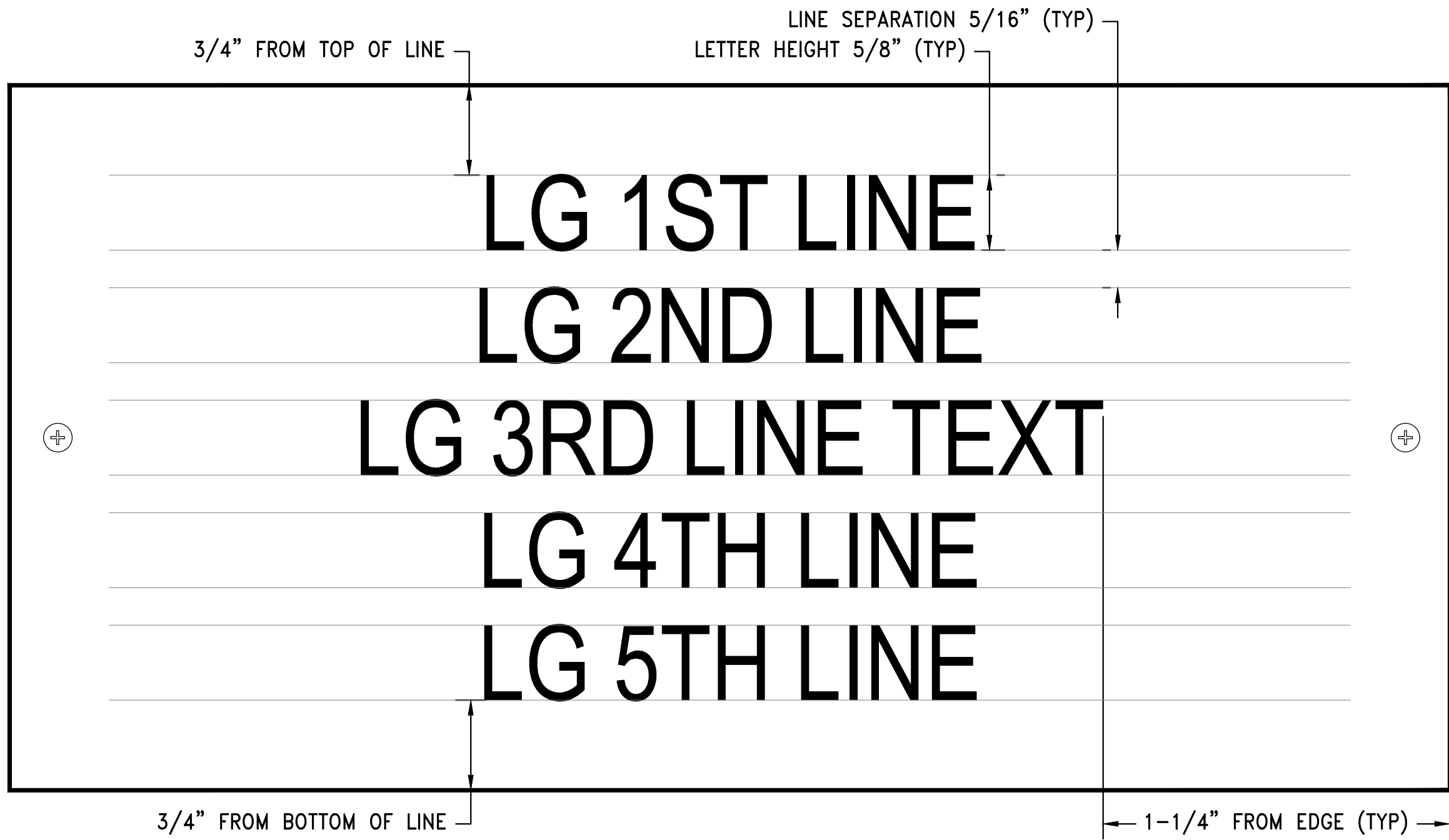
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

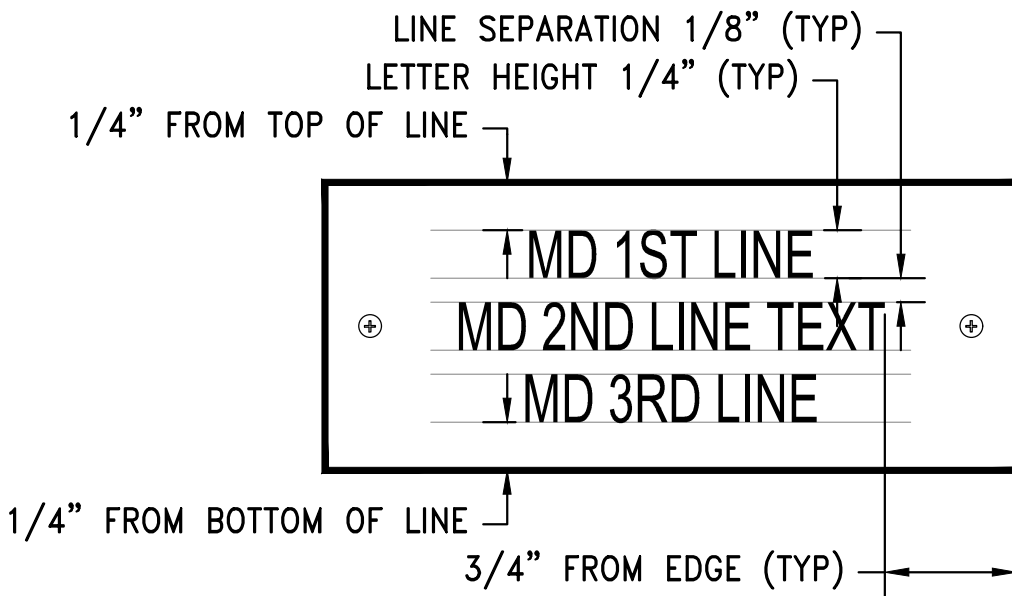
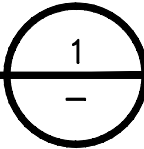
26 05 53 - 09

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV25-WORKING\DWG\260553-10 - NAMEPLATES.DWG SAVED: 4/7/2025 9:18 AM MZ8936 PLOTTED:4/7/2025 10:08 AM



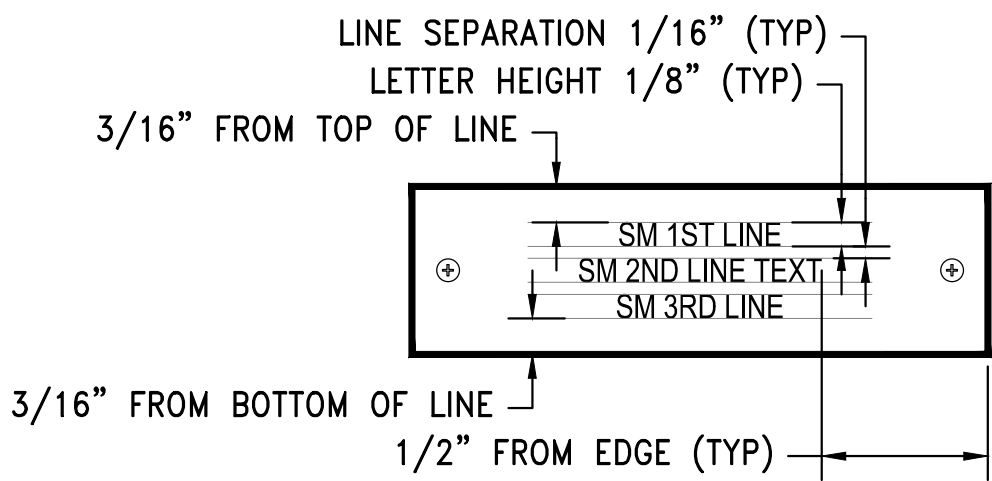
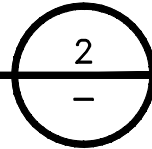
DETAIL

NAMEPLATE DETAIL FOR
5/8" TEXT HEIGHT
SCALE: N.T.S.



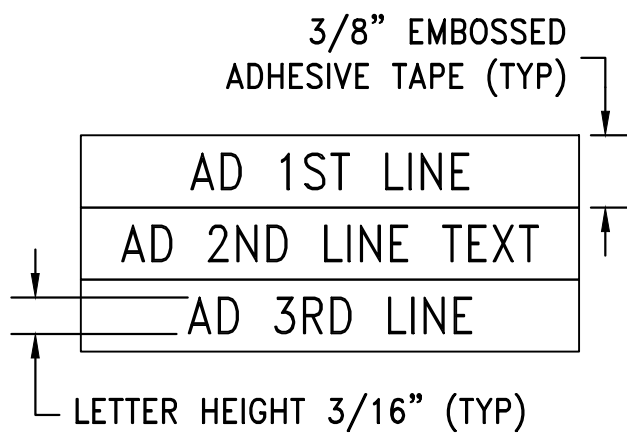
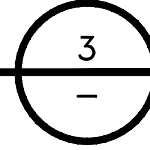
DETAIL

NAMEPLATE DETAIL FOR
1/4" TEXT HEIGHT
SCALE: N.T.S.



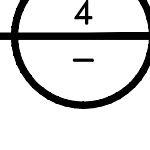
DETAIL

NAMEPLATE DETAIL FOR
1/8" TEXT HEIGHT
SCALE: N.T.S.



DETAIL

EMBOSSED ADHESIVE TAPE WITH
3/16" TEXT HEIGHT
SCALE: N.T.S.



LG/MD/SM/AD 1ST LINE

NAME OF LOCAL DEVICE FROM NAMING CONVENTION ON DETAIL SHEETS 260553-07, 08, 09.

LG/MD/SM/AD 2ND LINE

IF THE LOCAL DEVICE PROVIDES PROTECTION OR SWITCHING FOR A SINGLE EXTERNAL DEVICE, ENTER "FEEDS" ON THE 2ND LINE. IF THE LOCAL DEVICE PROVIDES PROTECTION OR SWITCHING FOR MULTIPLE EXTERNAL DEVICES OR IF THE LOCAL DEVICE DOES NOT PROVIDE PROTECTION OR SWITCHING FOR (AN) EXTERNAL DEVICE(S), ENTER "FED FROM" ON THE 2ND LINE.

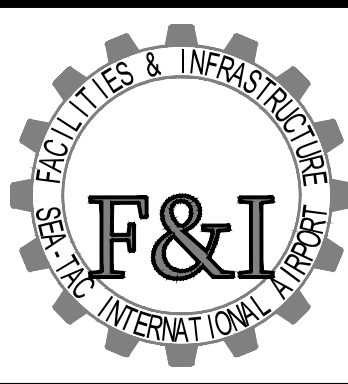
LG/MD/SM/AD 3RD LINE

IF THE LOCAL DEVICE PROVIDES PROTECTION OR SWITCHING FOR AN EXTERNAL DEVICE, ENTER THE NAME OF THE EXTERNAL DEVICE ON LINE 3. IF THE LOCAL DEVICE PROVIDES PROTECTION OR SWITCHING FOR MULTIPLE EXTERNAL DEVICES OR IF THE LOCAL DEVICE DOES NOT PROVIDE PROTECTION OR SWITCHING FOR (AN) EXTERNAL DEVICE(S), ENTER THE NAME OF THE SOURCE FEEDING THE LOCAL DEVICE ON LINE 3.

LG/MD/SM/AD 4TH LINE

MOST TAGS WILL NOT REQUIRE MORE THAN 3 LINES. THEREFORE, THIS LINE SHALL ONLY BE USED IF THERE IS NOT ADEQUATE SPACE TO LENGTHEN THE SIZE OF THE TAG. TAGS WITH ONLY FOUR LINES SHALL BE ADJUSTED IN SIZE ACCORDINGLY.

R E V I S I O N S							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS				
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS				
3	04/07/2025	MD8	CONSOLIDATED DETAILS, 2025 F&I STANDARD DETAILS				

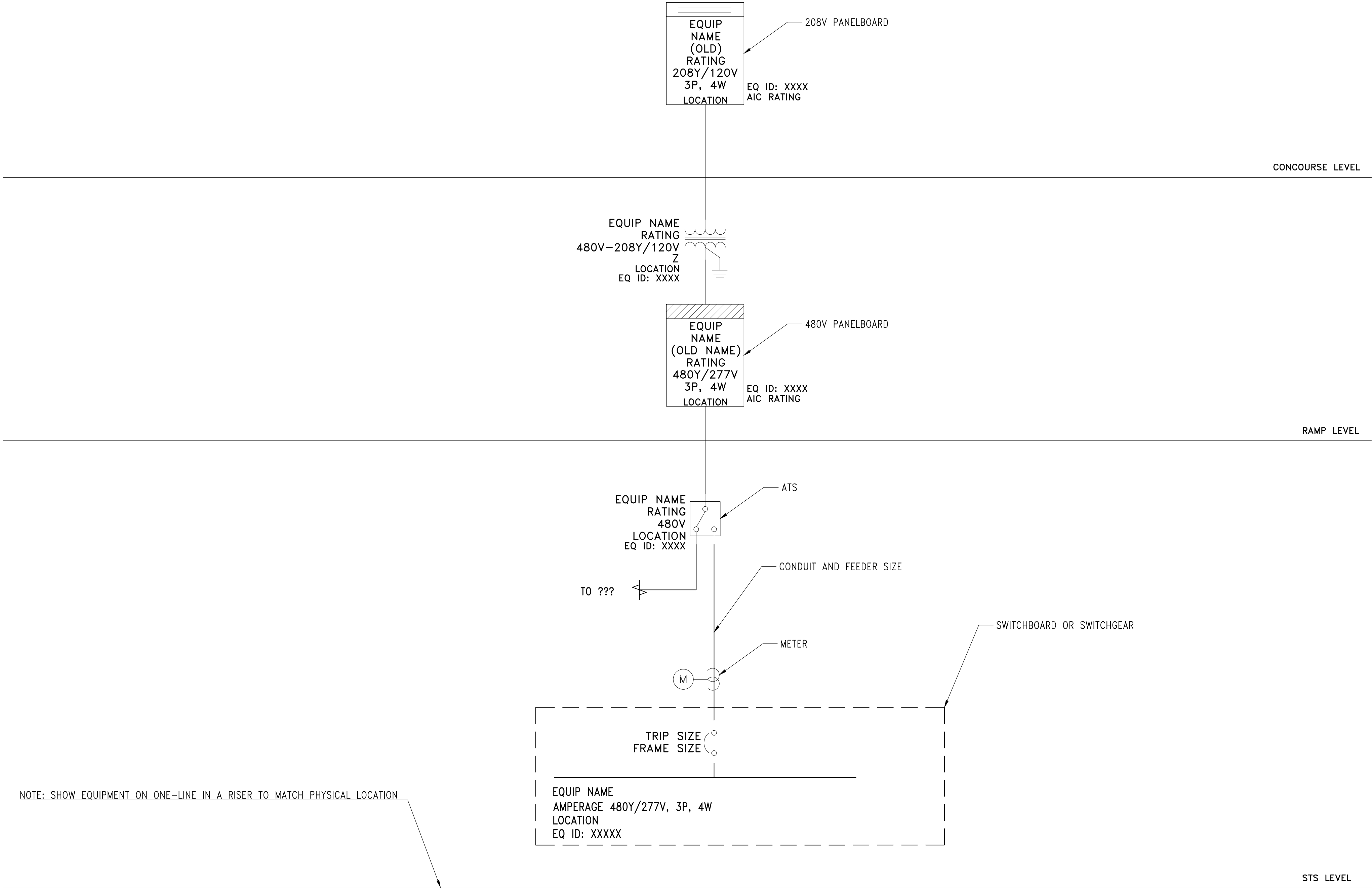


PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

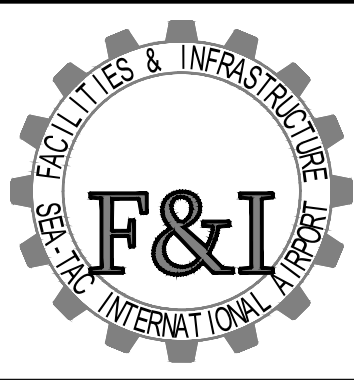
Port of Seattle	SEA-TAC INTERNATIONAL AIRPORT
PROJECT:	F&I STANDARD DETAILS
SHEET TITLE:	LABELING DETAILS TEXT HEIGHT NAMEPLATE

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 53 - 10

\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I_ELECTRICAL\10_STANDARDS\02_CAD_STANDARDS\01_DIV26\WORKING\DWG\260553-11 - SAMPLE RISER DIAGRAM.DWG SAVED: 4/7/2025 9:16 AM M25926 PLOTTED: 4/7/2025 9:30 AM



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
2	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

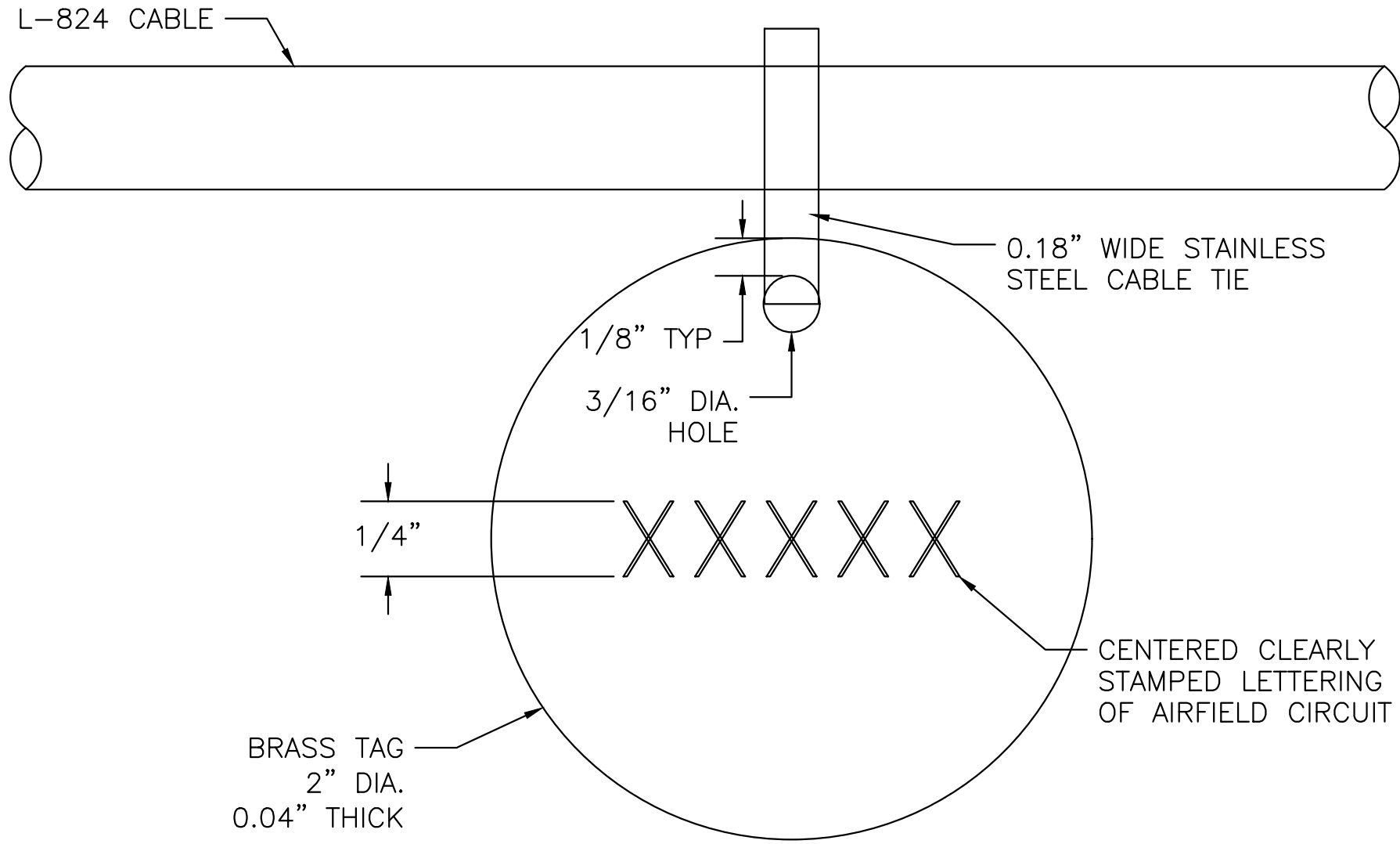
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SAMPLE RISER DIAGRAM**

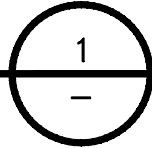
WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 53 - 11

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02_CAD-STANDARDS\01_DIV26\WORKING\DWG\260553-12 - AIRFIELD.DWG, SAVED: 4/7/2025 9:17 AM, MZB926 PLOTTED: 4/7/2025 9:30 AM



DETAIL

AIRFIELD CIRCUIT IDENTIFICATION TAG
1/8" TEXT HEIGHT
SCALE: 1"=1"



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
2	01/01/2024	MDR	NEW DETAIL, 2024 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LABELING DETAILS AIRFIELD LIGHTING IDENTIFICATION**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 05 53 - 12

\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\10-STANDARDS\102_CAD-STANDARDS\01_DIV26\WORKING\DWG\260573-01.DWG - SAVED: 4/7/2025 9:17 AM MZB936 PLOTTED: 4/7/2025 9:30 AM

6"

4"

!

WARNING

Arc Flash and Shock Hazard
Appropriate PPE Required

7' - 4"	Flash Hazard Boundary
12.3	cal/cm2 Flash Hazard at 18.0 inches PPE Level
22.678	Refer to NFPA 70e-2018 Table 130.5(g) Fault Current (kA)
0.48	kV Shock Hazard when cover is removed
3' - 6"	Limited Approach
1' - 0"	Restricted Approach - Class 00 Voltage Gloves

Equipment Name: [EQUIP NAME] (Fed by: [UPSTREAM EQUIP])
[CONSULTANT], DD/MM/YYYY, POS: _____

FONT STYLE: ARIAL

FONT SIZE: 47pt

FONT SIZE: 16pt

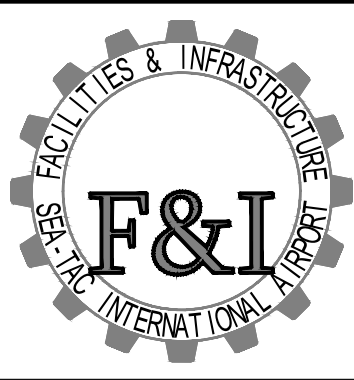
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EASYPower LABEL TEMPLATE AVAILABLE UPON REQUEST FROM F&I.

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:

PROJECT ENGINEER:

DESIGN ENGINEER:

DRAFTER:

SCALE:
N.T.S.
DATE:

CHECKED/APPROVED BY:

Port of Seattle

SEA-TAC INTERNATIONAL AIRPORT

PROJECT: F&I STANDARD DETAILS

SHEET TITLE: ARC FLASH LABEL TEMPLATE

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

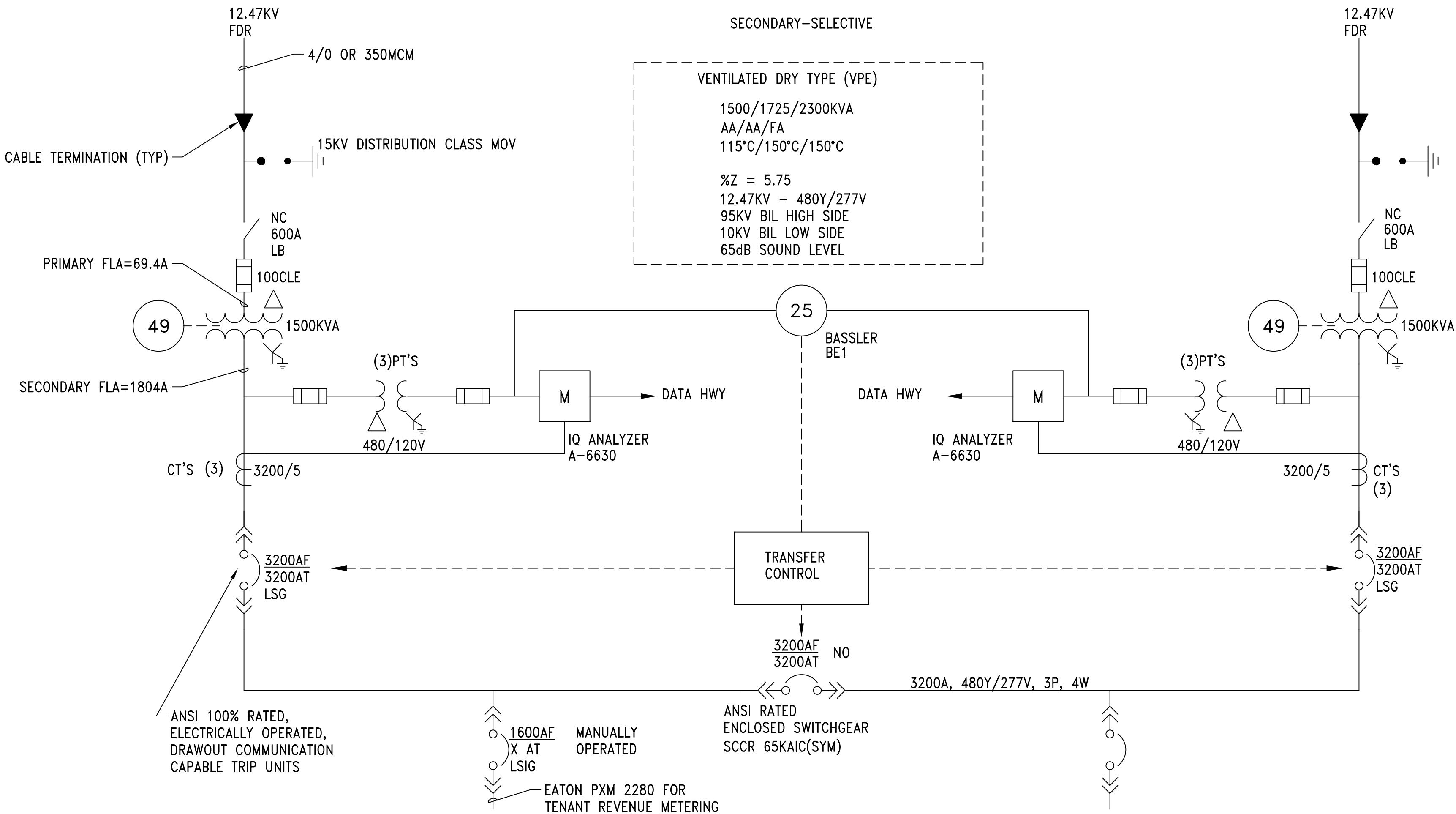
26 05 73 - 01

GENERAL NOTES:

1. PROVIDE REVENUE ACCURACY CT'S AND PT'S

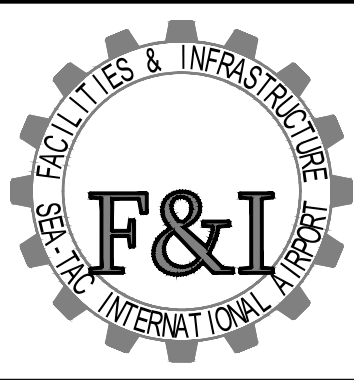
OPTIONS:

1. 2000/2300/3067KVA W/4000A BUS & MAIN & TIE BREAKERS



\\SEATTLEINTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10 STANDARDS\02 CAD STANDARDS\01 DIV26 WORKING DWG\261116-01.DWG:SAVED: 3/14/2025 3:22 PM MZB926 PLOTTED:4/7/2025 9:30 AM

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
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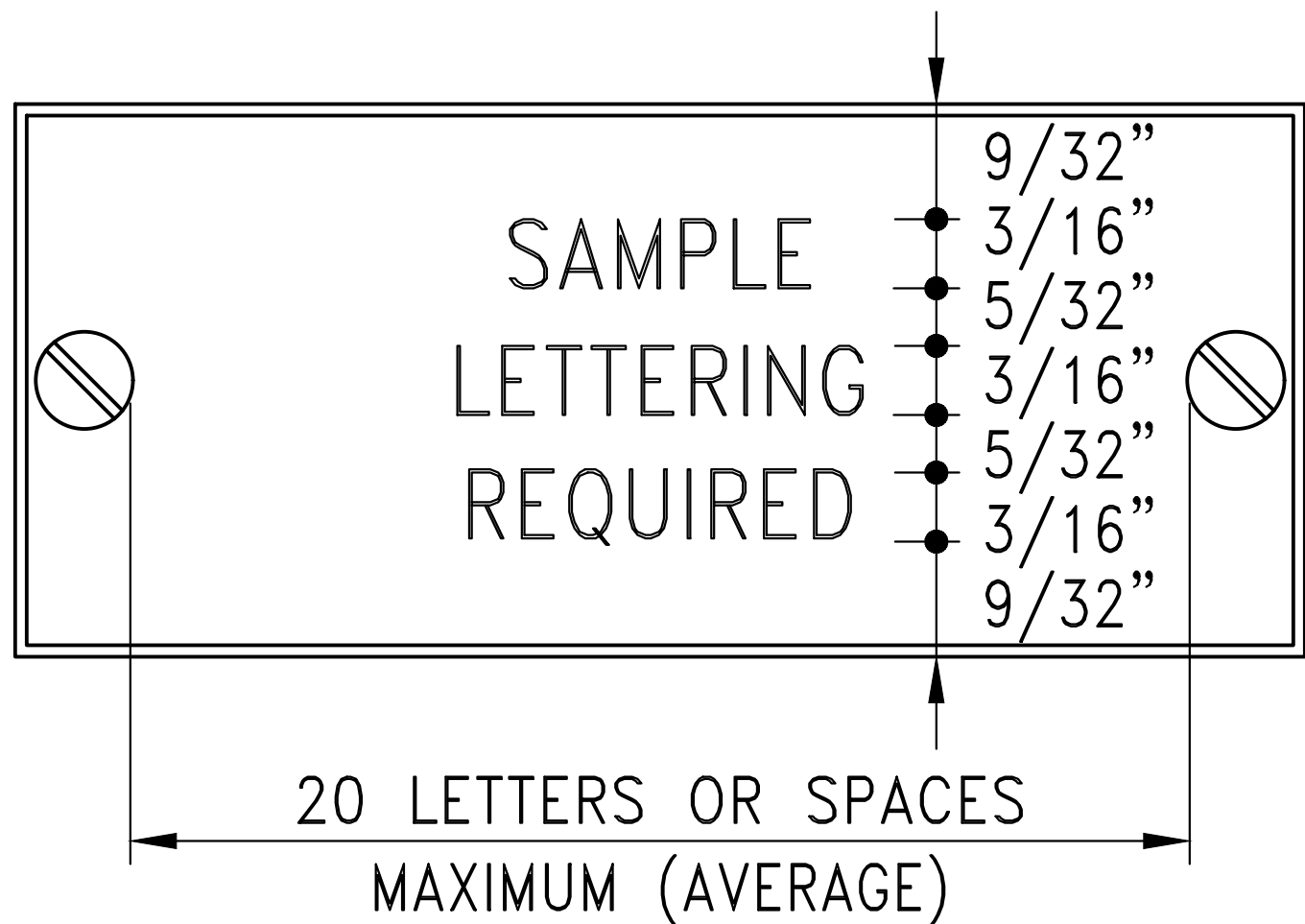
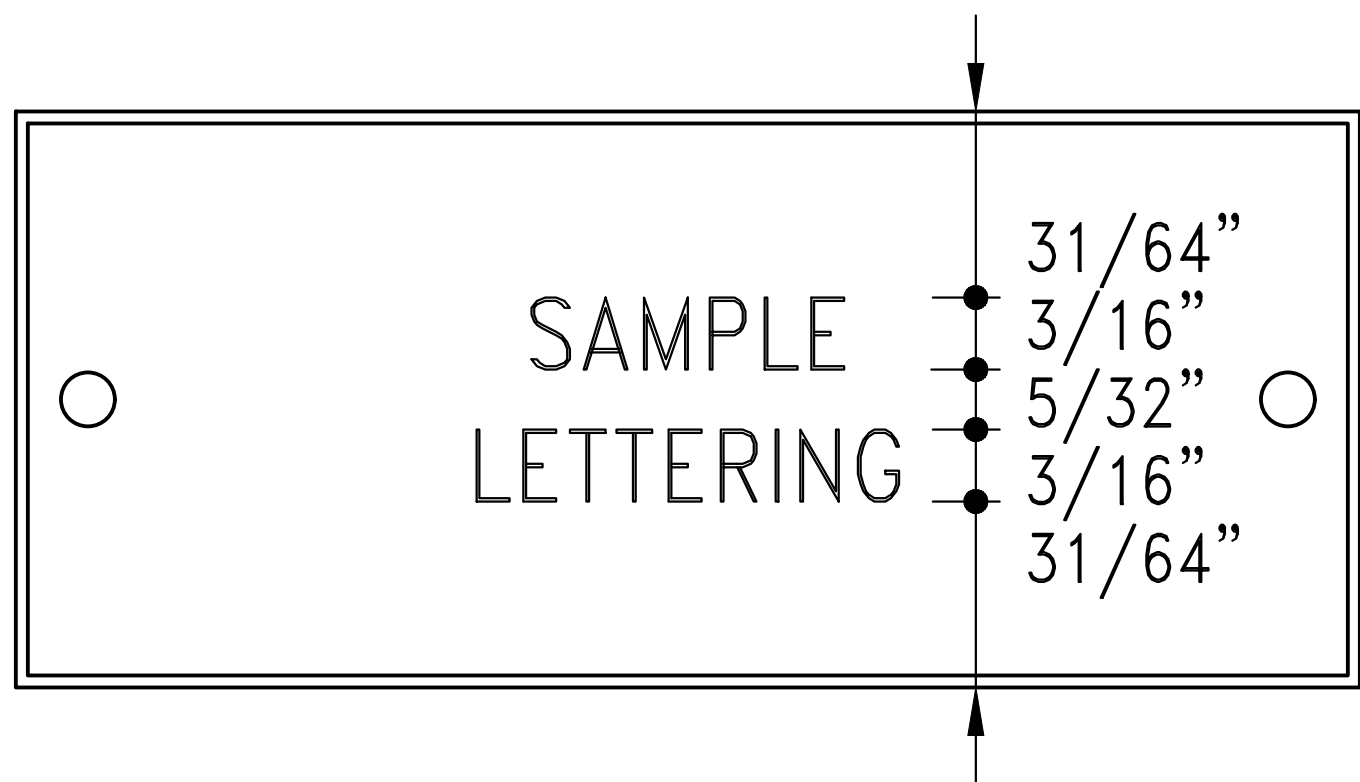
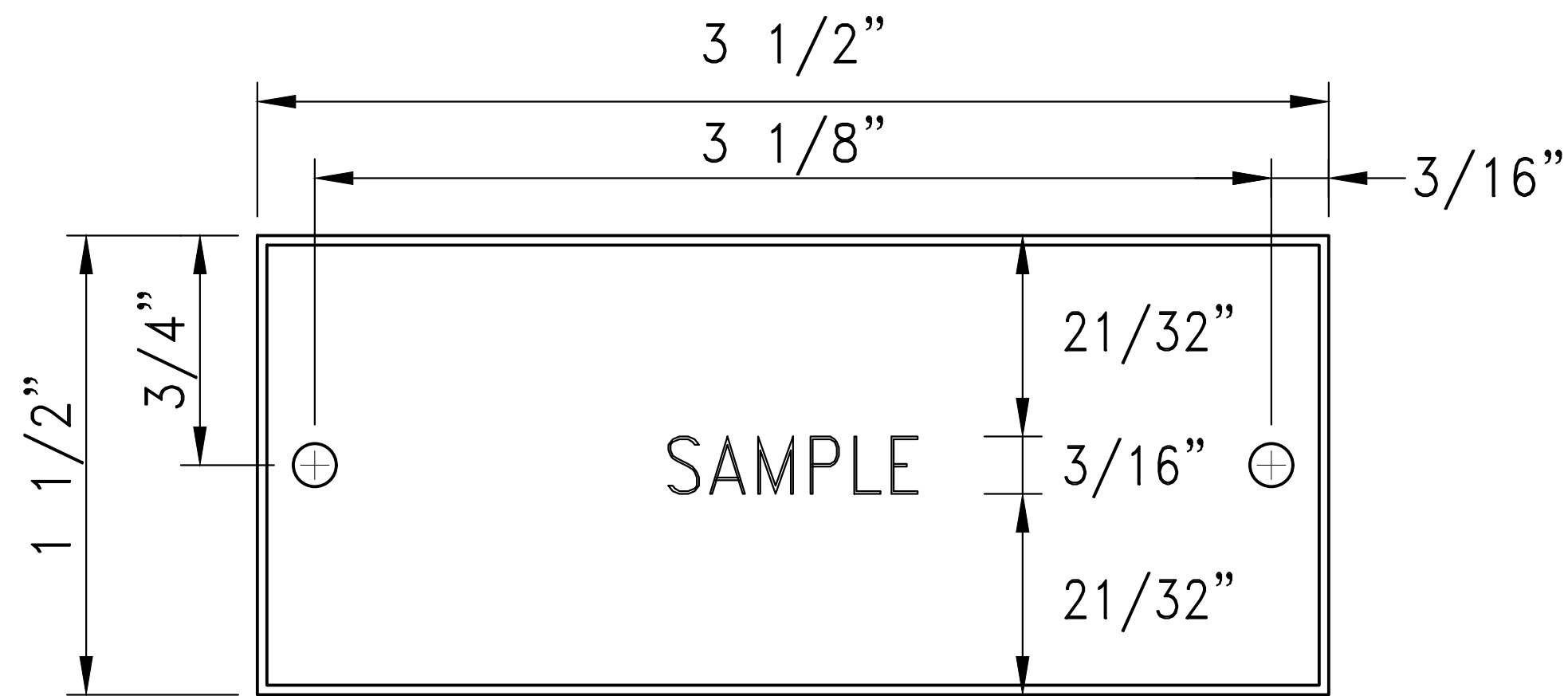
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **DOUBLE ENDED UNIT SUBSTATION ONE-LINE**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 11 16 - 01

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EQUIPMENT IDENTIFICATION

01-TXY-MH58-1 OIL FILLED TRANSFORMERS

DESIGNATION
MANHOLE NUMBER
SECONDARY VOLTAGE: X=480/277V
PRIMARY VOLTAGE: V=4160V; W=12.5KV
DEVICE: T=TRANSFORMERS

SITE LOCATION: 1=SOUTH OF FIRE STATION
2=SOUTH OF FUEL FARM
3=EAST OF FEDERAL EXPRESS BUILDING

LOCATION: 0=OUTSIDE

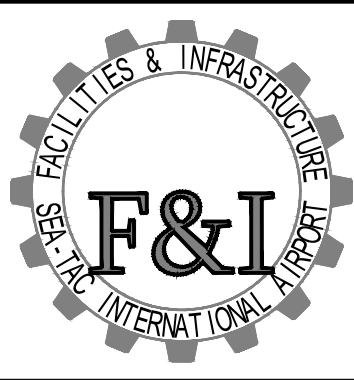
MATERIAL: LAMINATED PHENOLIC PLASTIC, 1/16" THICK, DULL BLACK SURFACE.

ENGRAVING: ENGRAVE THROUGH BLACK SURFACE TO EXPOSE CORE.
LETTERING STYLE TO BE AS SHOWN ABOVE.

LETTERING: ARRANGE ALL LETTERING TO THE CENTER OF PLATE.
USE ONE, TWO OR THREE LINES OF LETTERING AS SHOWN ON NAMEPLATE SCHEDULE.

FOR METAL EQUIPMENT, ATTACH TAG WITH RIVETS OR SCREWS. DO NOT DAMAGE EQUIPMENT WHEN DRILLING HOLES FOR ATTACHMENT.

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	
N.T.S.	
DATE:	
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **EQUIPMENT COMPONENT ID TAG REQUIREMENTS**

WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 12 00 - 01

TRANSFORMER NAMEPLATE SCHEDULE

RATINGS:

kVA: 1500 PHASE: 3 FREQ: 60 HZ
TEMP RISE: 65°C RISE 0A kV BIL: 95
PRIMARY VOLTS: 12.47kV ☒ DELTA ☐ GND WYE ☐ WYE
SECONDARY VOLTS: 480Y/277 IMPEDANCE: 5.75%
WINDINGS: ALUMINUM FLUID: MINERAL OIL

PROJECT DATA:

ENGINEER: _____
POS PSA NO: _____
POS W.O. NO: _____
REF DWG: _____
CONTRACTOR: _____
CONTRACT NO: _____
DATE COMPLETED: _____
EQUIP MFR: _____
LOCATION: _____
REF G.O. NO: _____

SEC WIRE COLOR CODES:

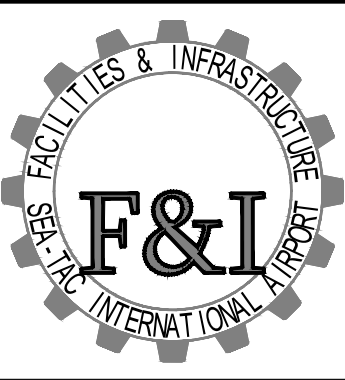
A∅ – BROWN
B∅ – ORANGE
C∅ – YELLOW
NEUT – WHITE
GND – GREEN

FIELD/DESIGN EVALUATION:

BY: _____
DATE: _____

ISOLATION FUSE LINK: _____
CURRENT LIMITING FUSE: _____
LOAD SENSING FUSE: _____

R E V I S I O N S									
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:	_____
PROJECT ENGINEER:	_____
DESIGN ENGINEER:	_____
DRAFTER:	_____
SCALE:	N.T.S.
DATE:	_____
CHECKED/APPROVED BY:	_____



SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **TRANSFORMER NAMPLATE SCHEDULE**

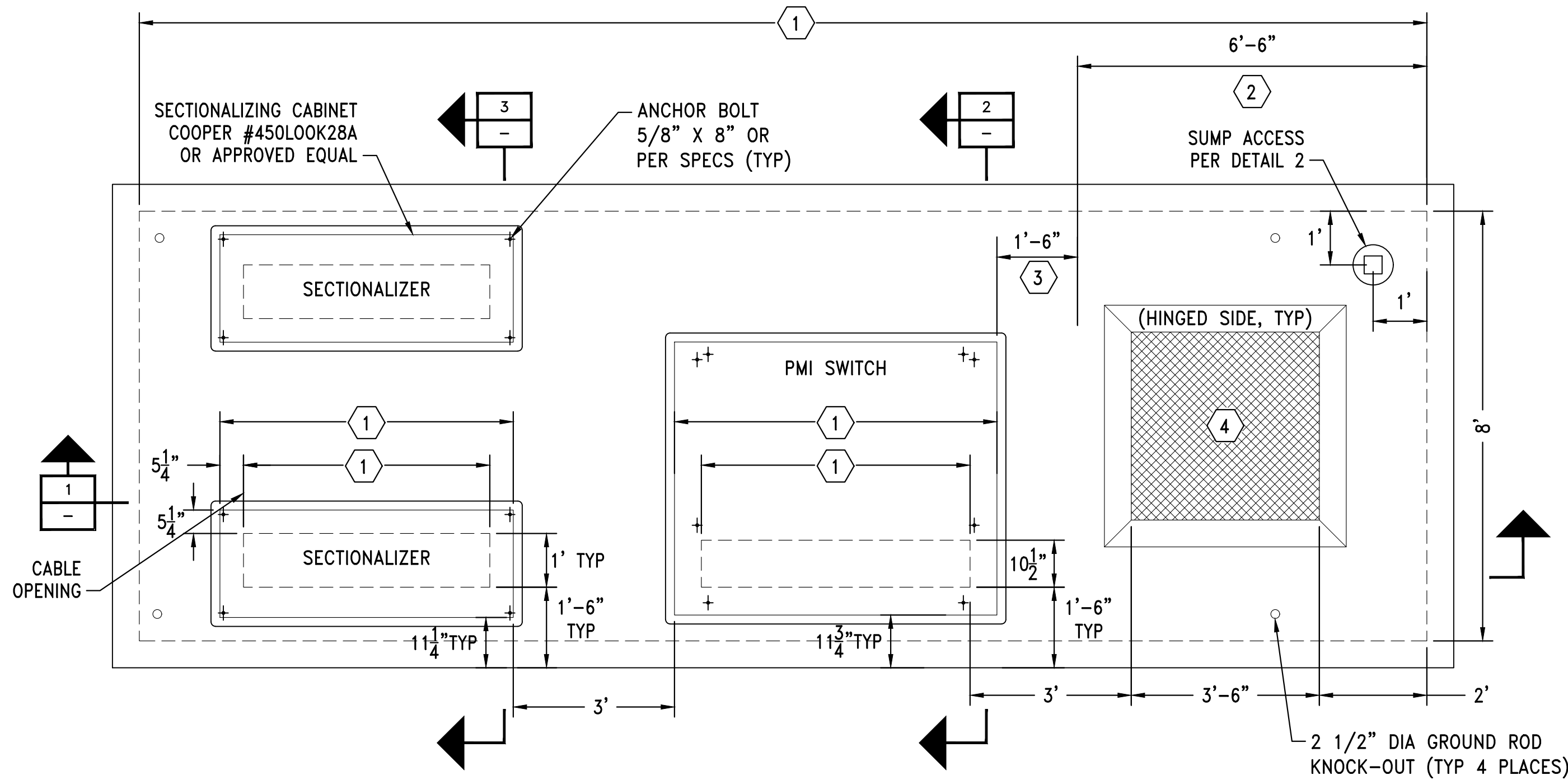
WORK PROJECT NO.

CONSULTANT'S NO.

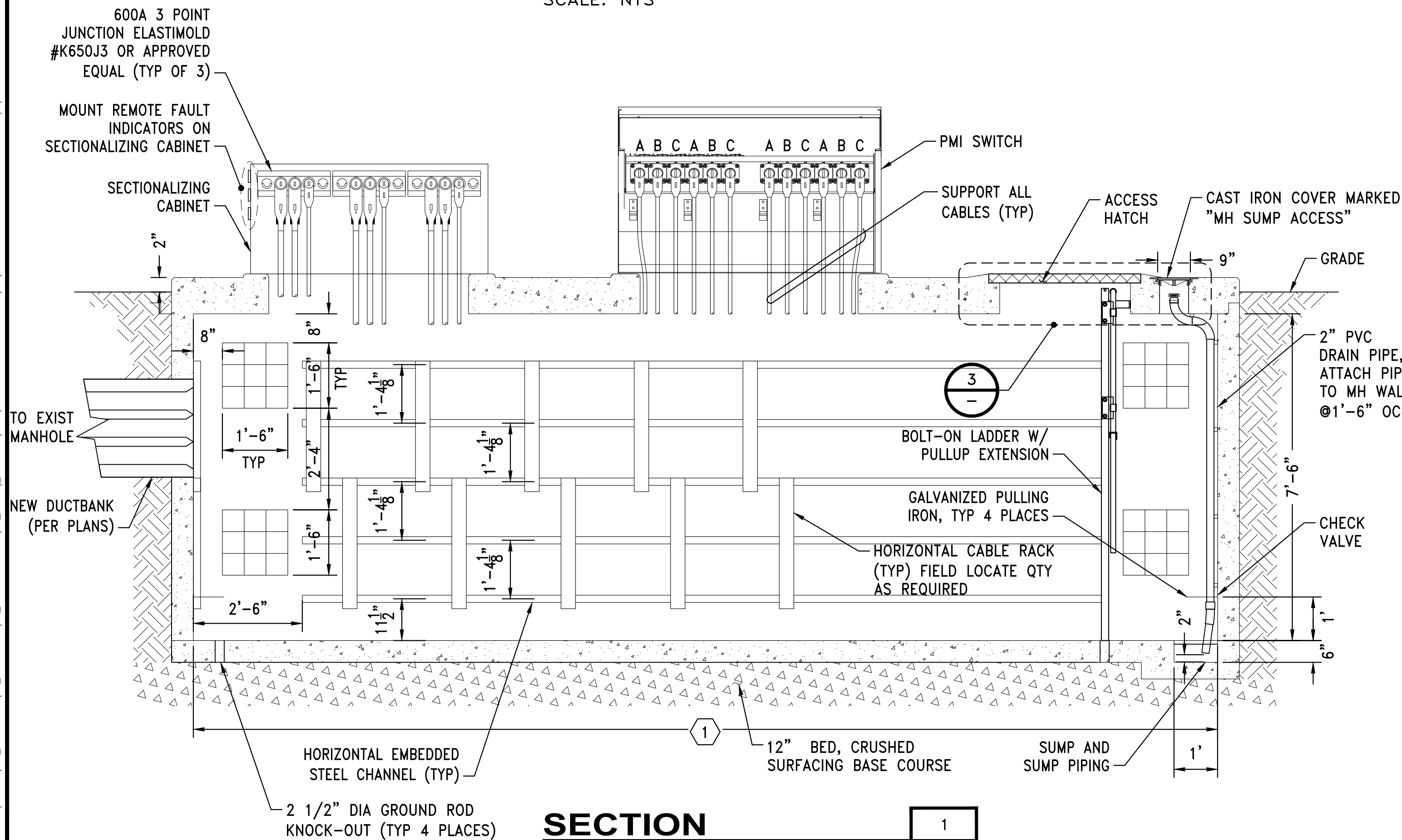
PORT OF SEATTLE NO.

26 12 00 - 02

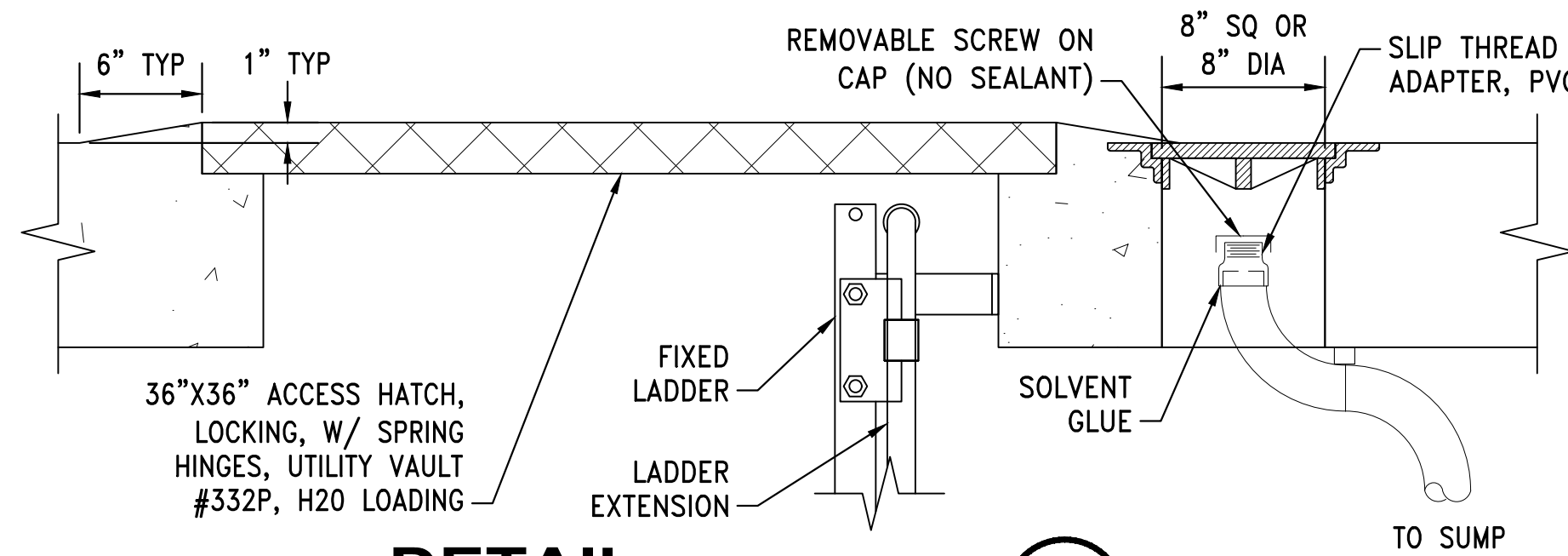
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIVETS\WORKING\DWG\261349-01.DWG - SAVED: 3/14/2025 4:18 PM - MZB2026 PLOTTED: 4/7/2025 9:31 AM



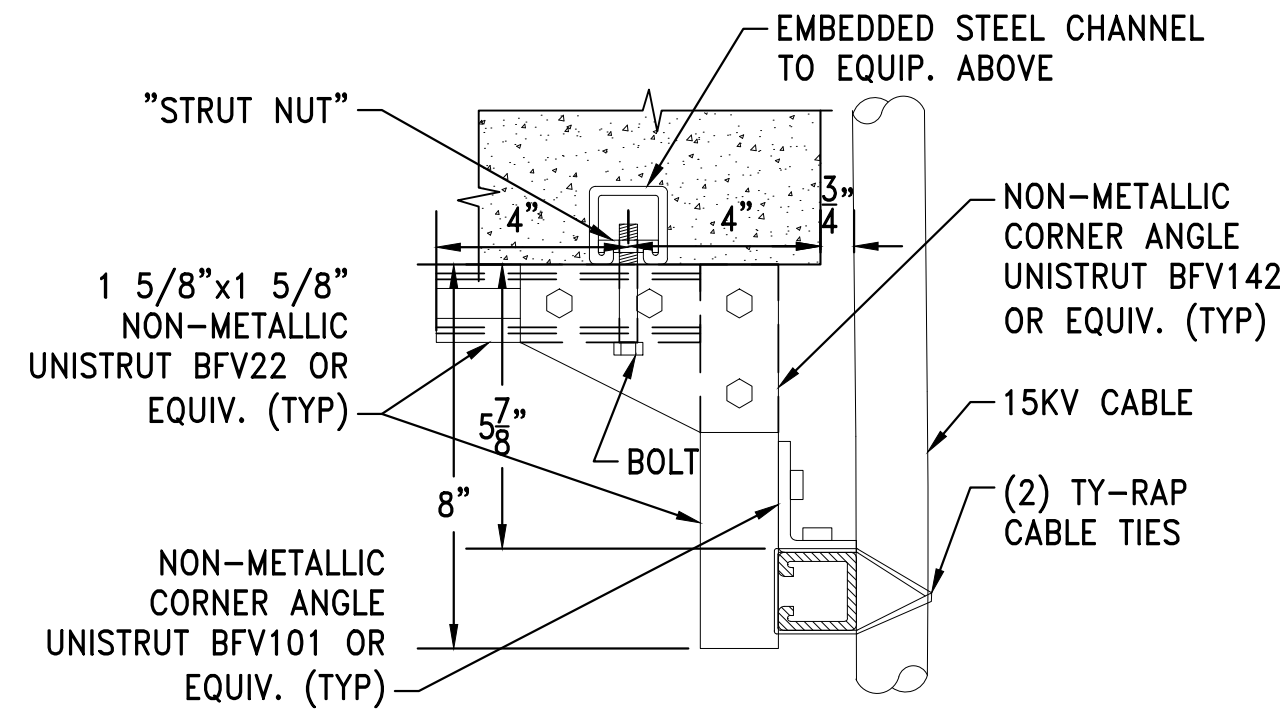
DETAIL
TYPICAL SWITCH VAULT
EQUIPMENT LAYOUT
SCALE: NTS



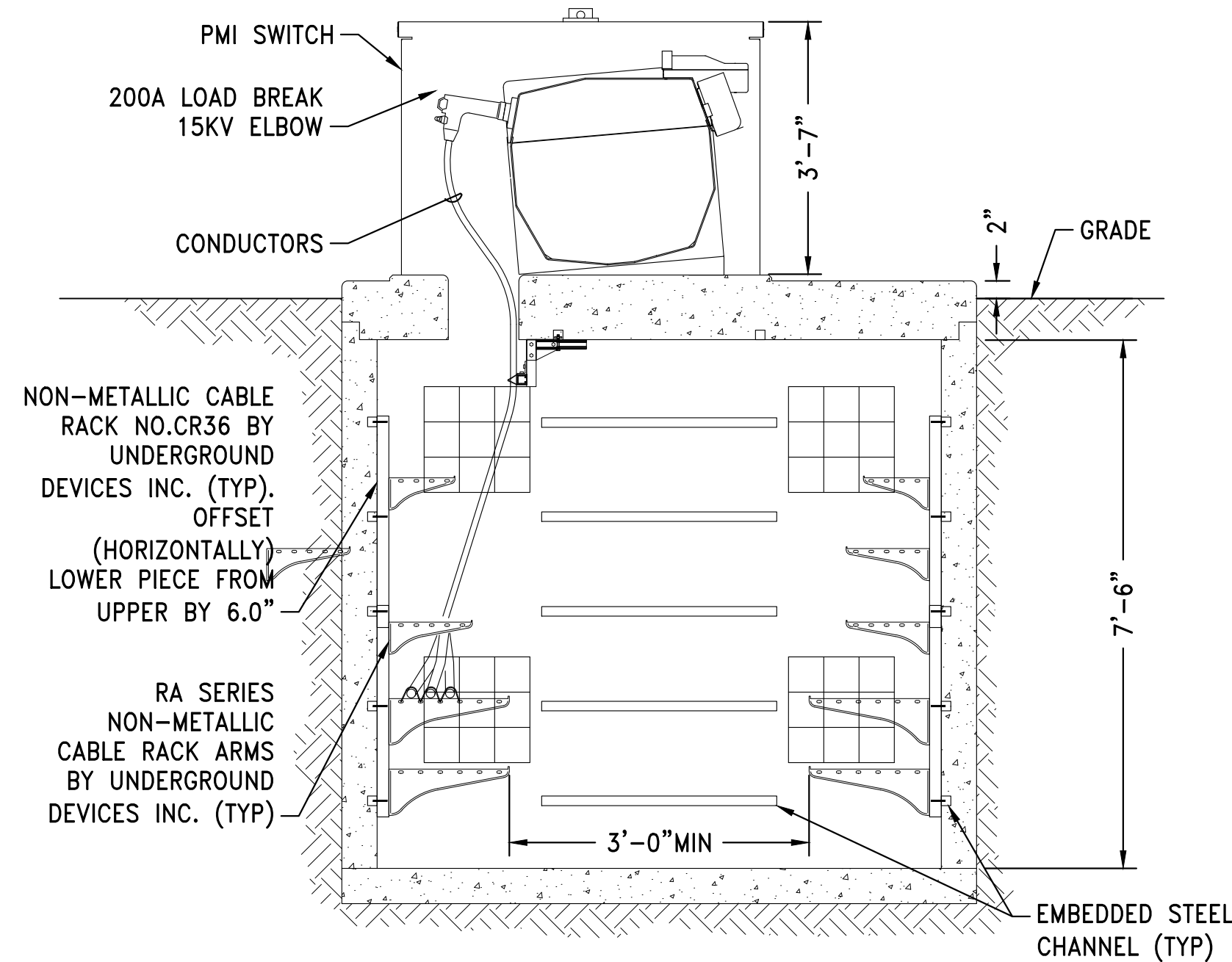
SECTION
SWITCH VAULT SECTION
SCALE: NTS



DETAIL
DETAIL SHOWING VAULT LID
AND SUMP ACCESS
SCALE: NTS



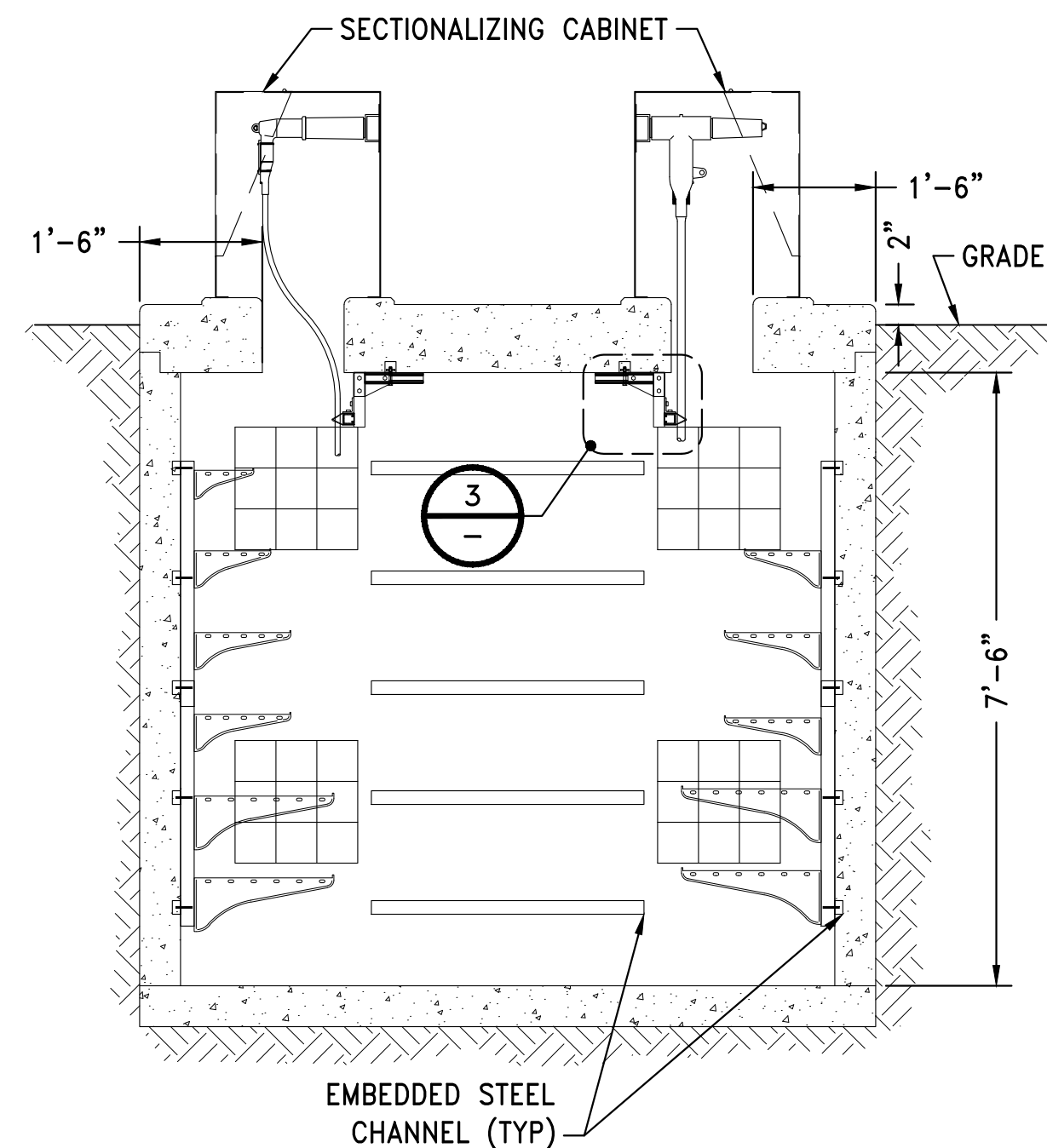
DETAIL
CABLE SUPPORT DETAIL
SCALE: NTS



SECTION
15KV PMI SWITCH SHOWING
200A LB ELBOW TERMINATION
SCALE: NTS

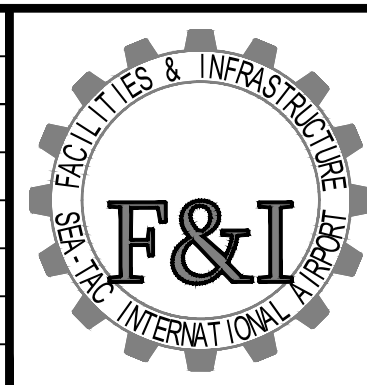
- GENERAL NOTES:**
1. IN GRASSY OR BARKED AREAS, VAULT LID TOP SHOULD BE 6" ABOVE GRADE. IN GRAVEL AREAS, VAULT LID TOP SHOULD BE 1" TO 2" ABOVE GRADE, WITH A TAPER DOWN TOWARDS THE SURROUNDING SURFACE.
 2. VAULT LID SHALL BE NO MORE THAN 1'-6" AFG IN FRONT OF EQUIP.
 3. THERE SHALL BE A MINIMUM OF 6' CLEARANCE IN FRONT OF SWITCHES AND SECTIONALIZERS.
 4. ALL DUCTBANKS SHALL ENTER AT THE EDGES OF A WALL AND ON THE SHORT WALL WHEN POSSIBLE.

- KEYED NOTES:**
- 1 REFER TO THE FOLLOWING TABLE FOR EQUIPMENT USED
- | SECTIONALIZERS | Mfgr | Part # | EQUIP. LENGTH | OPENING LENGTH |
|----------------|--------|------------|---------------|----------------|
| 2 POINT | Cooper | 450LOOK28A | 5'-6" | 4'-6" |
| 3 POINT | Cooper | 450LOOK28A | 5'-6" | 4'-6" |
| 4 POINT | Cooper | 450LOOK30A | 6'-6" | 5'-6" |
- PMI SWITCHES
- | 3-WAY | S & C | 330 | 6'-0" | 4'-0" |
|-------|-------|-----|-------|--------|
| 4-WAY | S & C | 422 | 6'-0" | 5'-0" |
| 5-WAY | S & C | 523 | 8'-6" | 6'-7" |
| 6-WAY | S & C | 624 | 8'-6" | 7'-10" |
- 2 BASE VAULT LENGTH = 6'-6"
- 3 ADD 1'-6" ON EITHER SIDE OF EQUIPMENT TO BASE VAULT LENGTH
- 4 ENGRAVE SWITCH VAULT NUMBER IN HATCH USING 5" MIN CHARACTERS



SECTION
SECTIONALIZING CABINET SHOWING
200A LB & 600A DB TERMINATIONS
SCALE: NTS

REVISIONS						
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS			
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS			
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS			



PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
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SCALE:	N.T.S.
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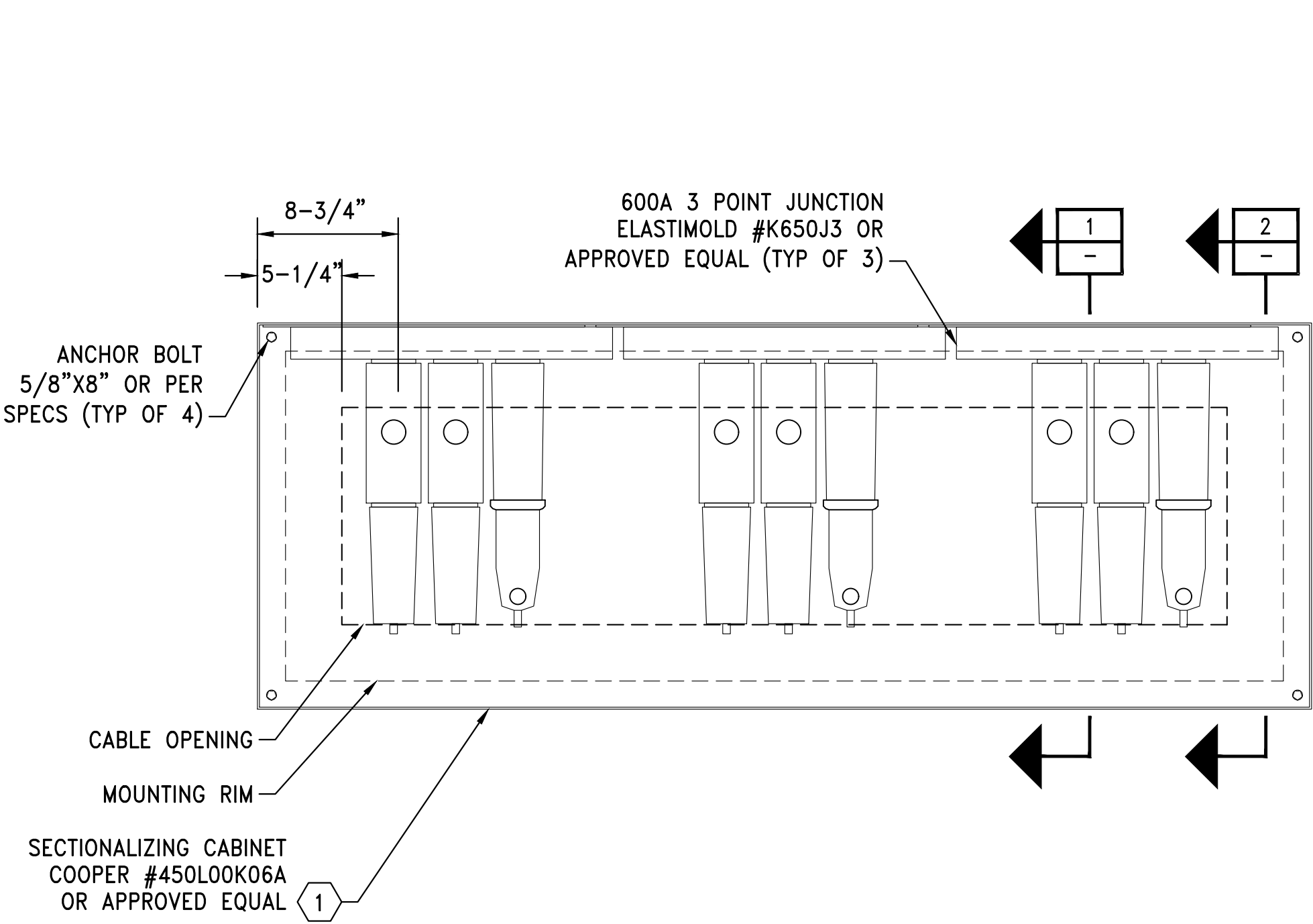
Port of Seattle SEA-TAC INTERNATIONAL AIRPORT
PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **SWITCH VAULT DETAILS**

WORK PROJECT NO.
CONSULTANT'S NO.
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26 13 49 - 01

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KEYED NOTES:

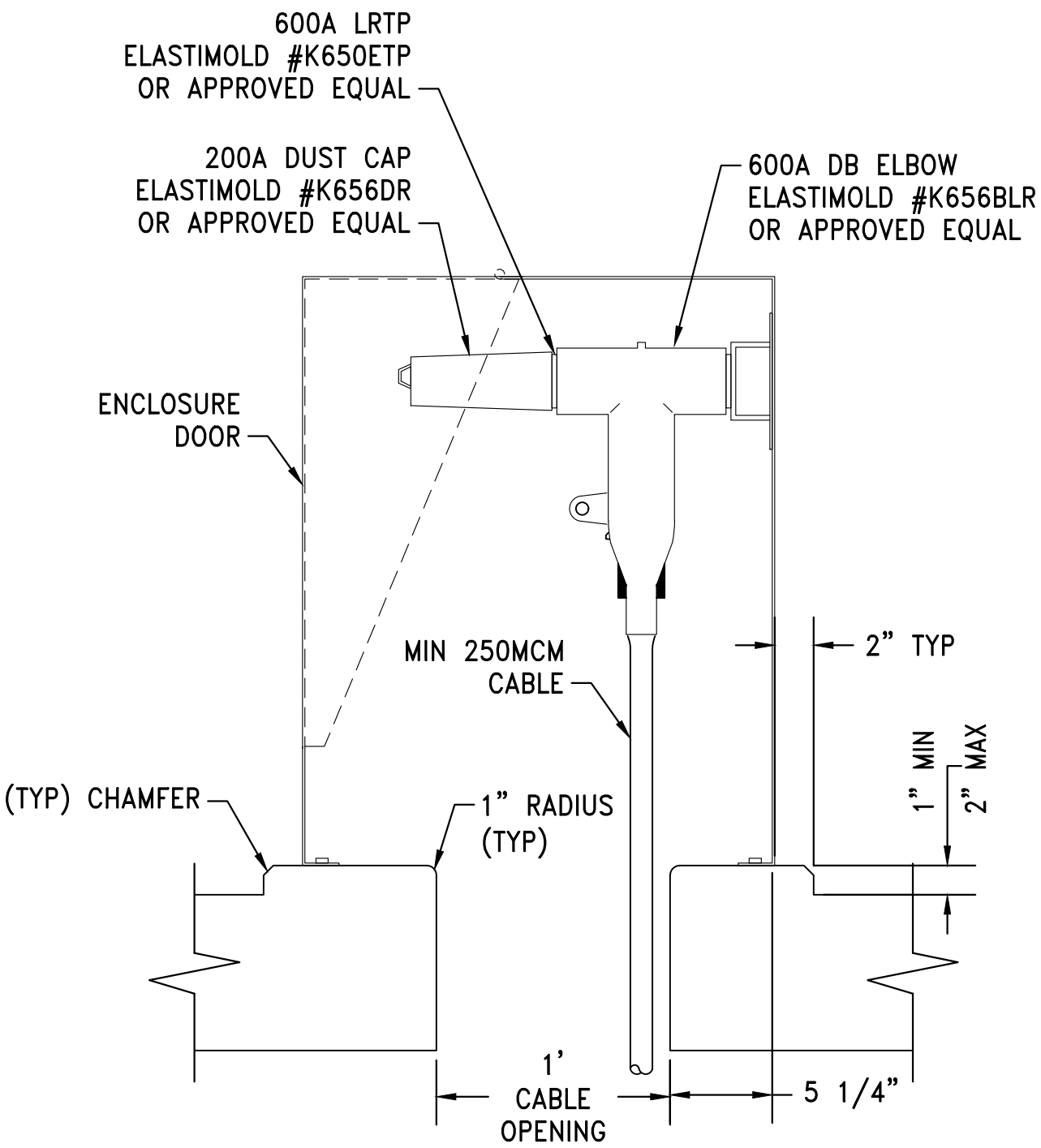
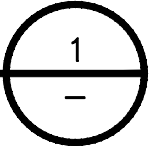
1 TYPICAL NAMING FOR SECTIONALIZING CABINETS:
SC-[MANHOLE/VAULT #]-[CABINET #]
EXAMPLE:
FOR TWO CABINETS ON A VAULT NAMED SV-20:
SC-20-1, SC-20-2
FOR THREE CABINETS ON A MANHOLE NAMED MH145:
SC-145-1, SC-145-2, SC-145-3



DETAIL

TERMINATION DETAIL FOR COOPER SECTIONALIZING CABINET

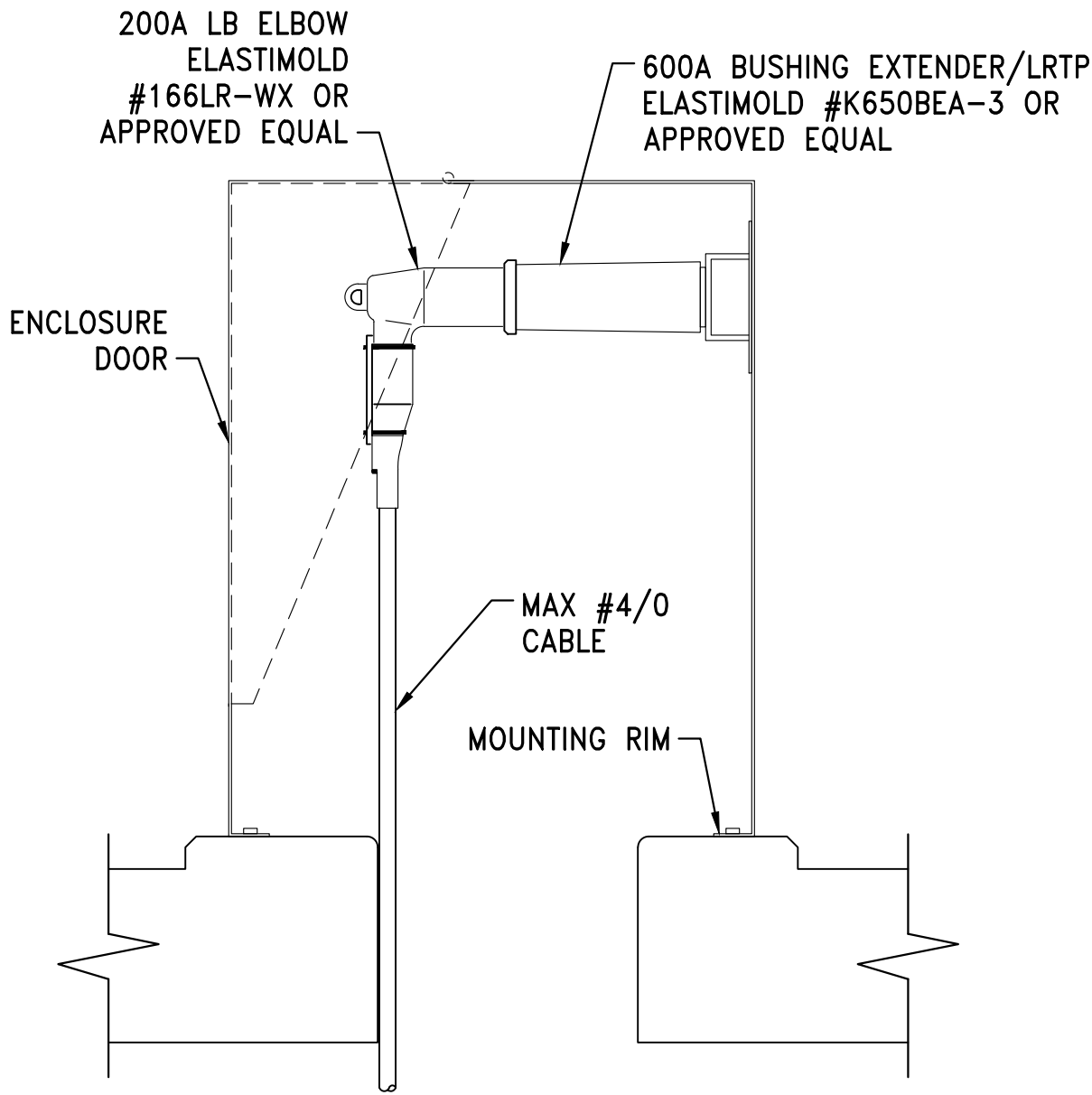
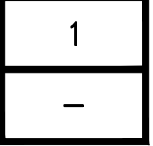
SCALE: 1 1/2"=1'-0"



SECTION

600A ELBOW TERMINATION AT SECTIONALIZING CABINET

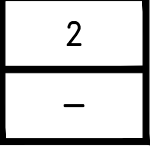
SCALE: 1 1/2"=1'-0"



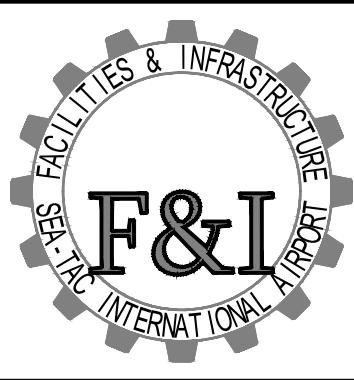
SECTION

200A ELBOW TERMINATION AT SECTIONALIZING CABINET

SCALE: 1 1/2"=1'-0"



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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



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PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
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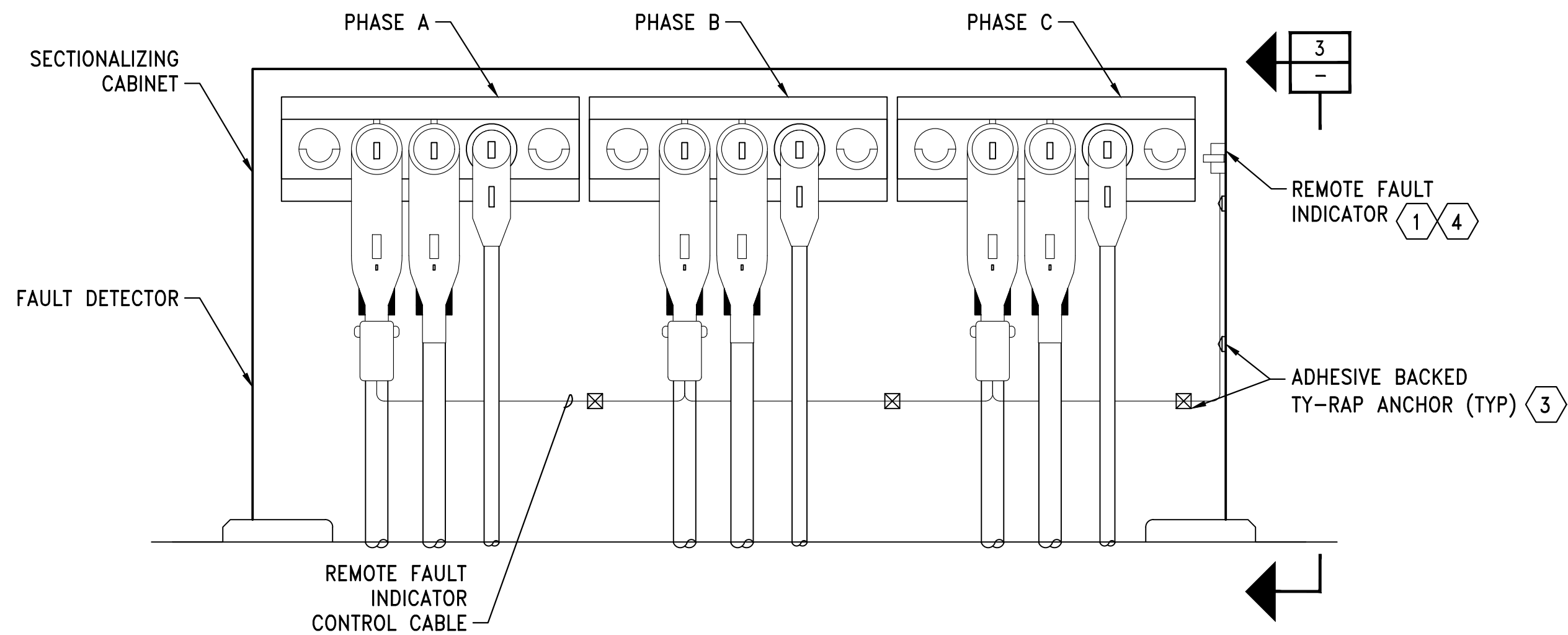
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SECTIONALIZING CABINET DETAILS TYPICAL 3-WAY SECTIONALIZER**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 18 00 - 01

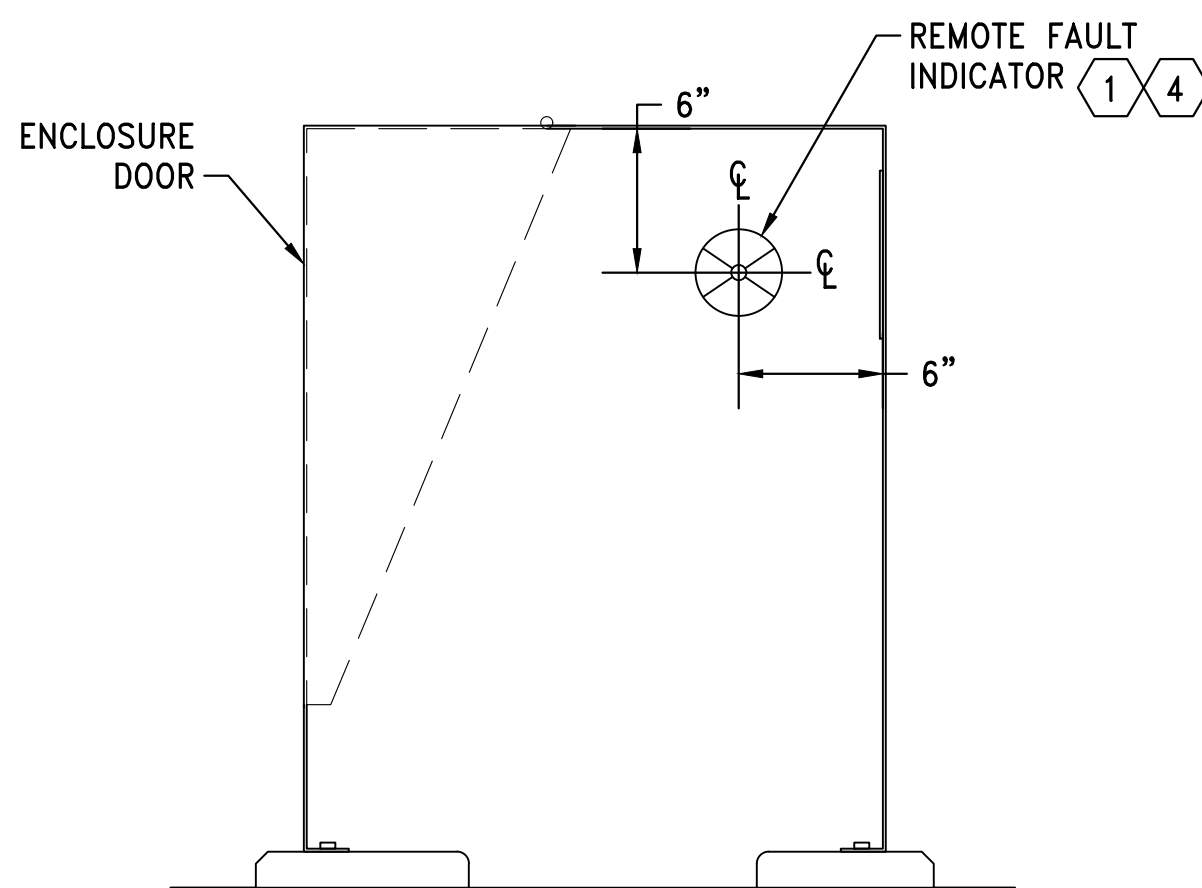
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAB STANDARDS\01-DIV26\WORKING\DWG\261800-02.DWG - SAVED: 3/14/2025 8:24 PM AZB926 PLOTTED: 4/7/2025 9:31 AM



DETAIL

TERMINATION DETAIL FOR
COOPER SECTIONALIZING CABINET
SCALE: 3/4"=1'-0"

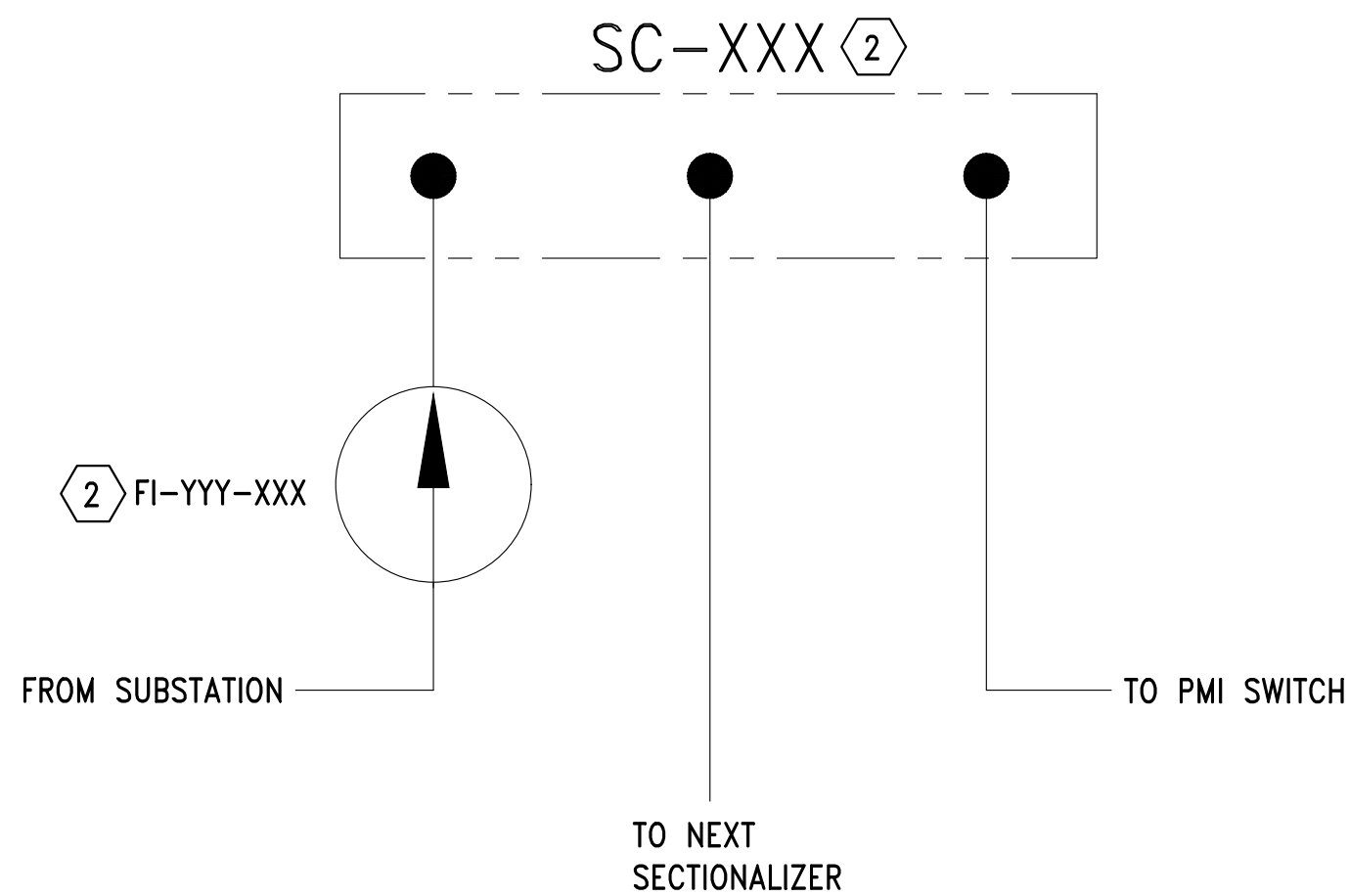
2
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SECTION

600A ELBOW TERMINATION AT
SECTIONALIZING CABINET
SCALE: 3/4"=1'-0"

3
—



DETAIL

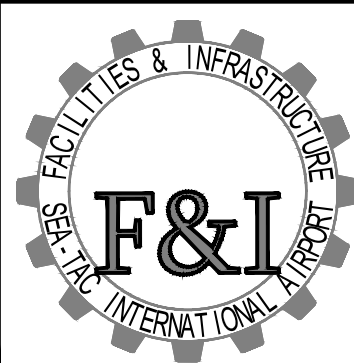
ONE-LINE DIAGRAM OF SECTIONALIZER
SCALE: N/A

3
—

KEYED NOTES:

- 1 REMOTE FAULT INDICATOR TO BE PLACED ON SIDE OF SECTIONALIZING CABINET OPPOSITE THE PMI SWITCH UNLESS DIRECTED OTHERWISE. SCHWEITZER PART NUMBER 3CRL-0800-IRACC OR APPROVED EQUAL. ADD 'W' TO PART NUMBER FOR TAMPER PROOF WINDOW KIT.
- 2 XXX = SWITCH VAULT OR MANHOLE NUMBER
YYY = FEEDER NUMBER
- 3 FASTEN CONTROL CABLES TO THE BACK OF THE ENCLOSURE WITH ADHESIVE TY-RAP ANCHORS AND TY-RAPS.
- 4 MOUNT FAULT INDICATOR PER MANUFACTURERS RECOMMENDATIONS. REFINISH EXPOSED STEEL EDGES OF HOLES TO MATCH THE EXISTING FINISH.

REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **SECTIONALIZING CABINET DETAILS**

WORK PROJECT NO.

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PORT OF SEATTLE NO.

26 18 00 - 02

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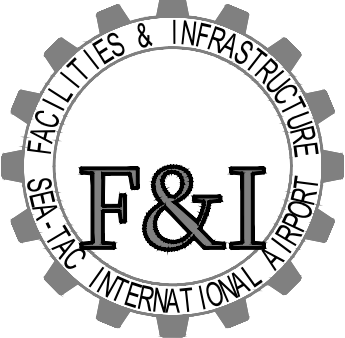
SWITCHGEAR CUBICLE DESIGNATION
FOR LOW VOLTAGE DOUBLE-ENDED
SWITCHGEAR RATED 4000A AND LARGER

CUBICLE (1A)	CUBICLE (1E)	CUBICLE (2A)	CUBICLE (3A)	CUBICLE (3E)	CUBICLE (4A)	CUBICLE (5A)	CUBICLE (5E)
CUBICLE (1B)	CUBICLE (1F)	CUBICLE (2B)	CUBICLE (3B)	CUBICLE (3F)	CUBICLE (4B)	CUBICLE (5B)	CUBICLE (5F)
CUBICLE (1C)	CUBICLE (1G)	CUBICLE (2C)	CUBICLE (3C)	CUBICLE (3G)	CUBICLE (4C)	CUBICLE (5C)	CUBICLE (5G)
CUBICLE (1D)	CUBICLE (1H)	CUBICLE (2D)	CUBICLE (3D)	CUBICLE (3H)	CUBICLE (4D)	CUBICLE (5D)	CUBICLE (5H)


GENERAL NOTES:

1. PROVIDE REVENUE ACCURACY CTS AND PTS AS REQUIRED.
2. CUBICLE SECTIONS 1,3 AND 5 CAN ACCOMMODATE LARGER BREAKERS WHICH REQUIRE TWO CUBICLES. A LARGE BREAKER IN 1A WOULD FILL SECTIONS 1A AND 1E.
3. CUBICLE SECTIONS ON EACH END AND IN CENTER SHALL BE DOUBLE SECTIONS AS SHOWN TO ACCOMMODATE MAIN CIRCUIT BREAKERS AND TIE BREAKER SIZED AT 4000A AND LARGER.
4. WHERE QUANTITY OF COLUMNS OF CUBICLES VARIES FROM EXAMPLE SHOWN, ADJUST NUMBERING AS NECESSARY. ALWAYS ALLOW DOUBLE SECTIONS ON EACH END AND MINIMUM OF ONE DOUBLE SECTION IN THE CENTER.

R E V I S I O N S									
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3	04/07/2025	MOB	2025 F&I STANDARD DETAILS						



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PROJECT ENGINEER:	
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **LV SWITCHGEAR CUBE LAYOUT 4000A AND LARGER**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 23 00 - 01

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- GENERAL NOTES:**
1. PROVIDE REVENUE ACCURACY CTS AND PTS AS REQUIRED.
 2. CUBICLE SECTIONS CAN ACCOMMODATE UP TO 3200A BREAKER. IF BREAKERS ARE TOO LARGE TO FIT IN ONE CUBICLE, USE CUBICLE NUMBERING SYSTEM SHOWN ON DRAWING 16430.2

SWITCHGEAR CUBICLE DESIGNATION
FOR LOW VOLTAGE DOUBLE-ENDED
SWITCHGEAR RATED 3200A AND SMALLER

CUBICLE (1A)	CUBICLE (2A)	CUBICLE (3A)	CUBICLE (4A)
CUBICLE (1B)	CUBICLE (2B)	CUBICLE (3B)	CUBICLE (4B)
CUBICLE (1C)	CUBICLE (2C)	CUBICLE (3C)	CUBICLE (4C)
CUBICLE (1D)	CUBICLE (2D)	CUBICLE (3D)	CUBICLE (4D)

R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



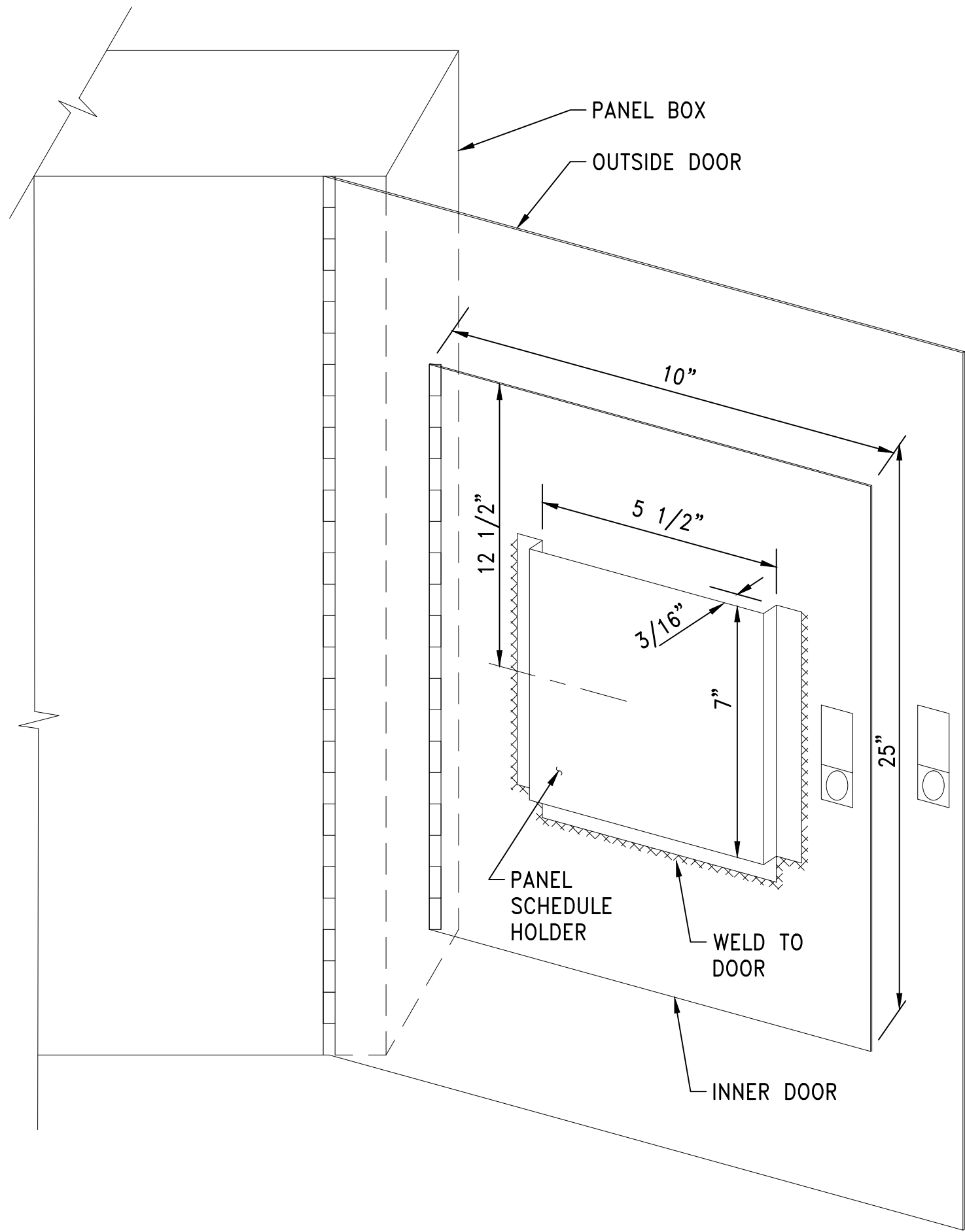
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

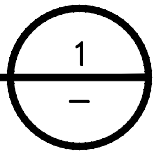
SHEET TITLE: **LV SWITCHGEAR CUBE LAYOUT 3200A AND SMALLER**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 23 00 - 02

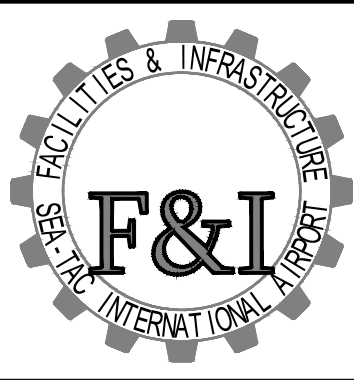
\\\\SEATTLE\\INTERNAL\\LOCAL\\PORT\\AVIATION\\AVIATION\\AV-ISO\\F&I\\ELECTRICAL\\10_STANDARDS\\02_CAD_STANDARDS\\01_DIV25\\WORKING\\DWG\\262416-01.DWG - SAVED: 3/14/2025 4:31 PM - MZB926 PLOTTED: 4/7/2025 9:31 AM




DETAIL
PANEL SCHEDULE HOLDER
SCALE: NONE



R E V I S I O N S									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
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DATE:
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SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **PANEL TRIM PANEL SCHEDULE HOLDER**

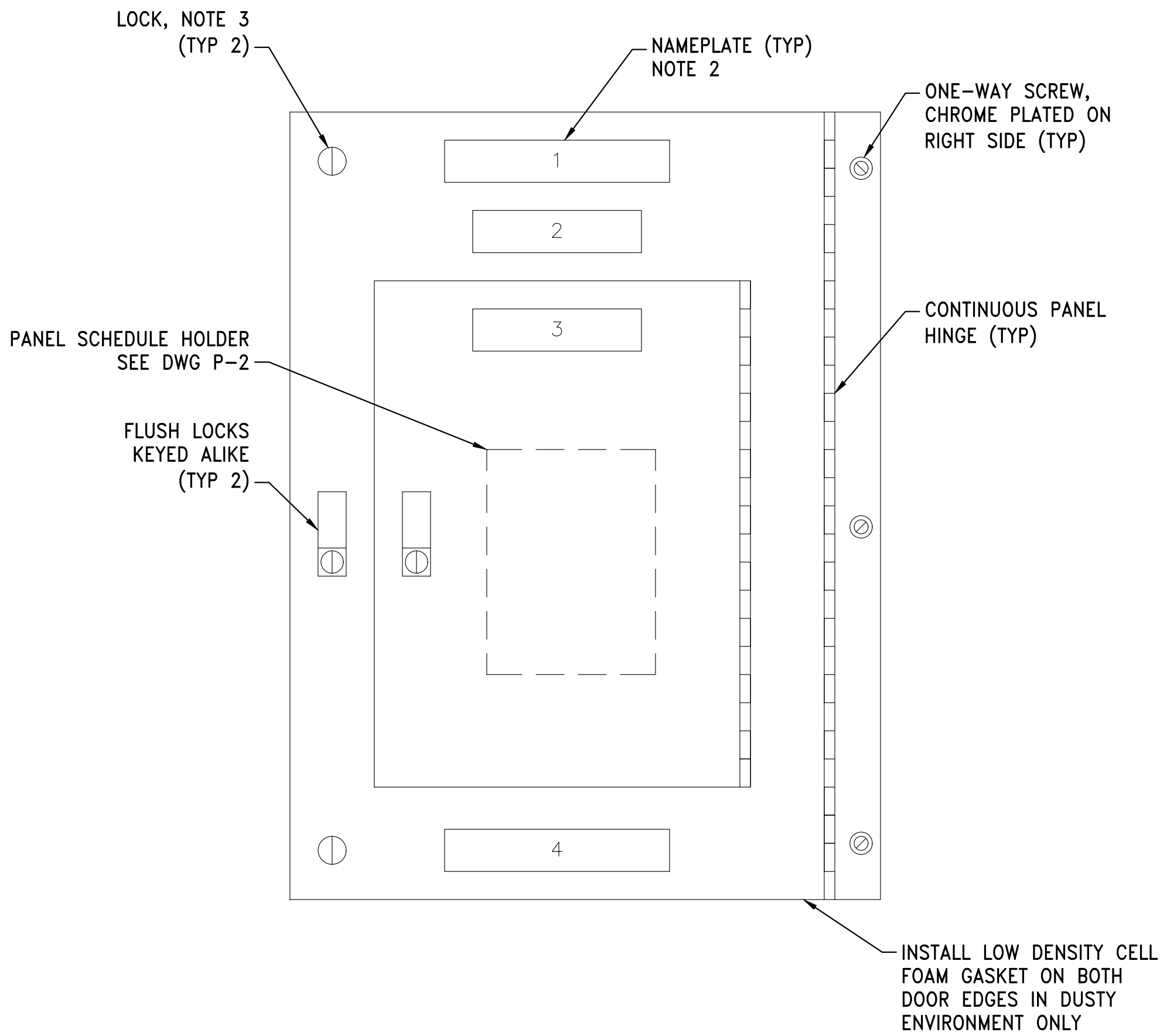
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

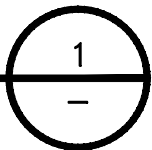
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\\SEATTLEINTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV265-WORKING\DWG\265416-02.DWG:SAVED: 3/14/2025 9:23 PM MZB926 PLOTTED:4/7/2025 9:31 AM



DETAIL

PANEL TRIM
DOOR-IN-DOOR TYPE
SCALE: NONE

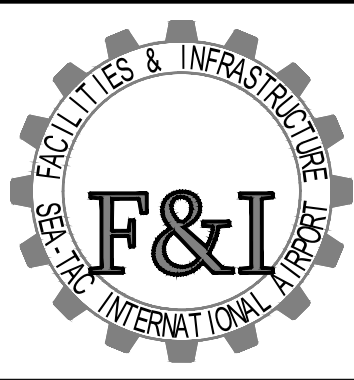


NOTES:

- CABINET CONSTRUCTION: ANSI GRAY FINISH, 14 -12 GAUGE WITH "U.L" LABEL
- ALL NAME PLATES SHALL BE PHENOLIC WITH ADHESIVE BACK.
(SEE NAMEPLATE SCHEDULE FOR DETAILS)
- REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

NAME PLATE SCHEDULE			
ITEM NO	NAMEPLATE INSCRIPTION LINE 1 / LINE 2 / LINE 3 / LINE 4 / LINE 5	CHARACTER HEIGHT / BACKGROUND	REMARKS
1	PANEL B2 - E2 - 38G (OLD EX-15) / 225A 208Y/120V 3Ø 4WSN / FED FROM PANEL B2 - E2 - 30G/1, 3, 5	5/8" H WHITE CHAR. ON BLACK BACKGROUND	RED BACKGROUND FOR EMERGENCY POWER
2	VOLTAGE - 208Y/120V 3Ø 4WSN / AØ - BLACK / BØ - RED / CØ - BLUE / N - WHITE	1/4" H WHITE CHAR. ON BLACK BACKGROUND	
3	FOR PANEL ACCESS CALL / ACC: (206) 787-5406 OR / SHOP: (206) 787-5311	1/4" H WHITE CHAR. ON BLACK BACKGROUND	
4	WARNING - ANY UNAUTHORIZED USE OF / PANEL MAY RESULT IN SUSPENSION / OF PORT OF SEATTLE BADGE	1/2" H RED CHAR. ON WHITE BACKGROUND	5/8" H RED CHAR. FOR "WARNING" ONLY

R E V I S I O N S							
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PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
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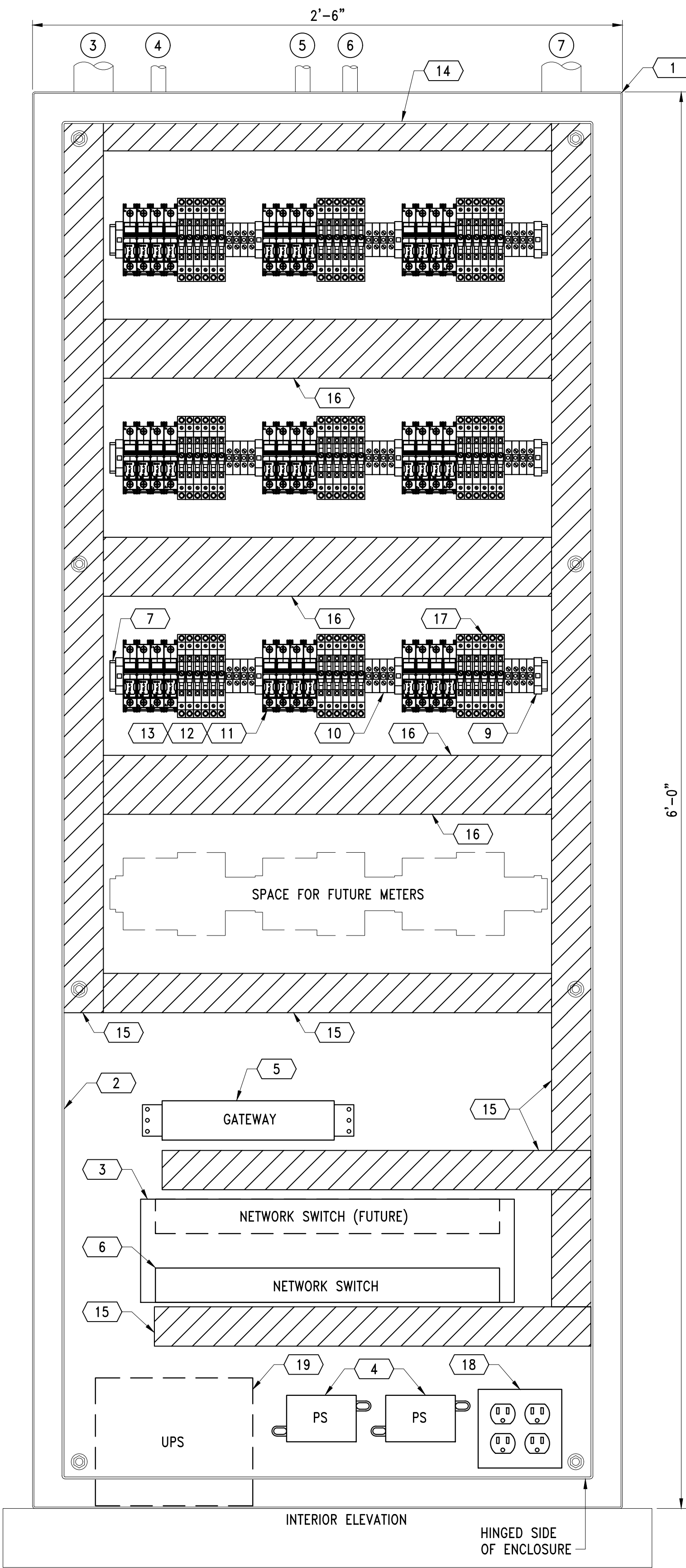
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

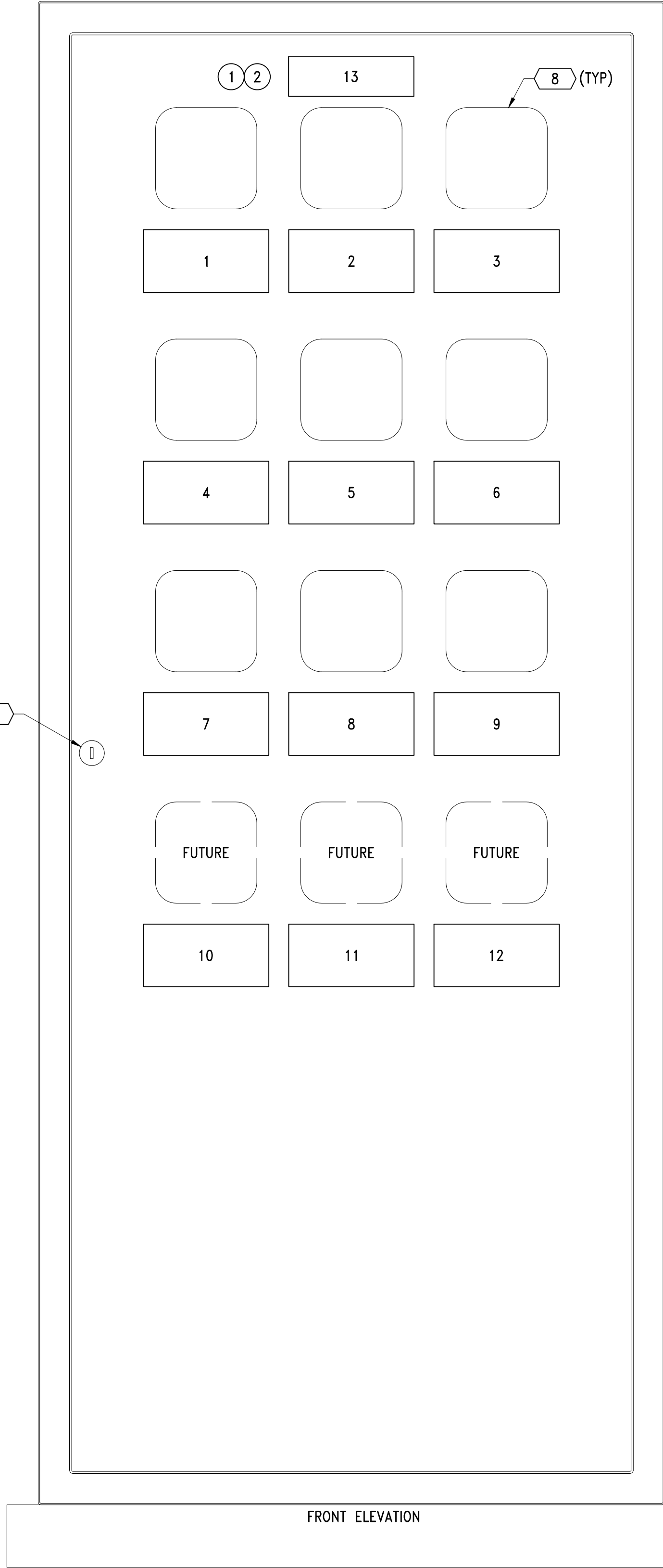
SHEET TITLE: **PANEL TRIM DOOR-IN-DOOR TYPE**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 24 16 - 02

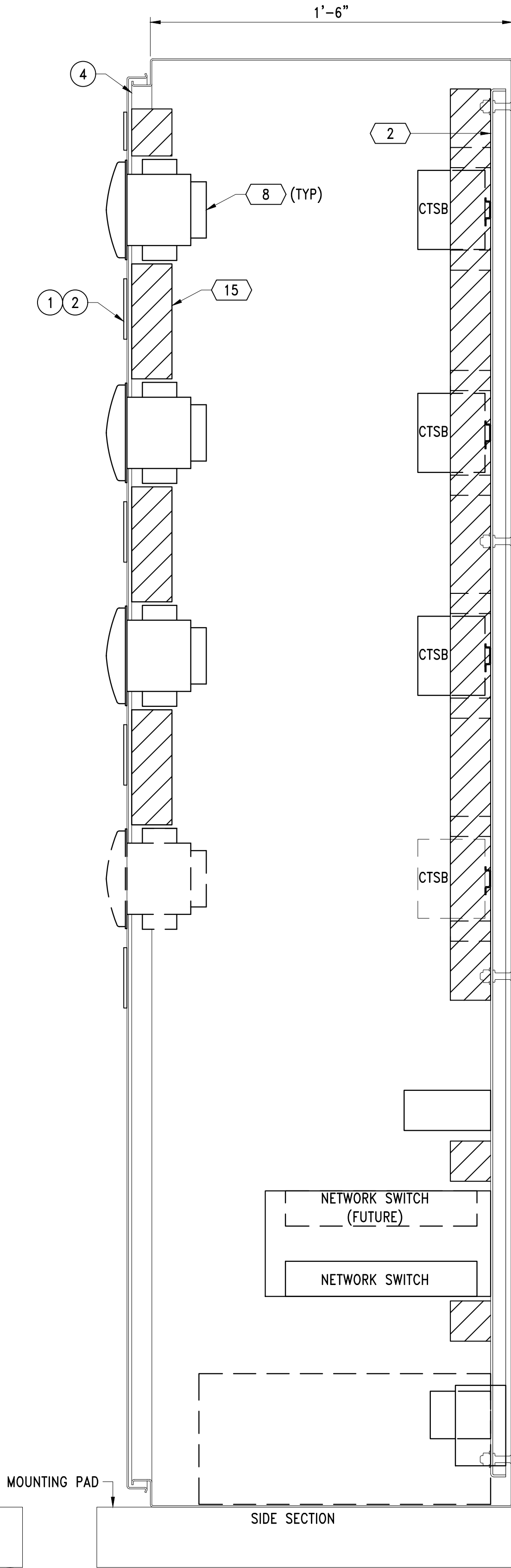
\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION-AV-SSA\F&I ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DIV26\WORKING\DWG\262713-01.DWG - SAVED: 3/14/2025 5:06 PM MZB26B PLOTTED 4/7/2025 9:31 AM



NOTE TO DESIGNER:
COORDINATE WITH F&I FOR CAPACITY REQUIREMENTS OF METERING CABINET.



DETAIL
METERING ENCLOSURE
SCALE: 1/4" = 1'-0"



GENERAL NOTES:

- METERING ENCLOSURE DESCRIPTION:
UL LISTED NEMA 12 ENCLOSURE WITH POWER METERS, NETWORK SWITCH AND GATEWAY, PRE-WIRED WITH POWER SUPPLY, TERMINAL BLOCKS AND CT SHORTING BLOCKS. METER DISPLAY MOUNTS ON PANEL DOOR. ETHERNET CONNECTIONS TERMINATE ON SWITCH AND GATEWAY. METERS, NETWORK, GATEWAY ENCLOSURES AND ALL ASSOCIATED EQUIPMENT SHALL BE PROVIDED BY DIVISION 26.
- METERING ENCLOSURE FABRICATOR SHALL COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURER OF POWER METERS PRIOR TO CONSTRUCTION.
- METERING ENCLOSURE FABRICATOR SHALL PROVIDE INSTALLATION OF ALL DEVICES INDICATED REQUIRING ONLY THE CUSTOMER'S EXTERNAL CONNECTIONS TO PRODUCE A FULLY OPERATIONAL METERING ENCLOSURE. PROVIDE ALL INTERNAL WIRING INCLUDING CONNECTIONS FROM CT SHORTING BLOCKS TO METERS MOUNTED ON FRONT OF ENCLOSURE. PROVIDE CAT 6 CABLE WITH RJ45 CONNECTORS FROM EACH METER TO NETWORK SWITCH INSIDE ENCLOSURE.
- FABRICATOR FURNISHED ITEMS ARE LISTED BUT ARE NOT NECESSARILY LIMITED TO THE BILL OF MATERIALS.
- POWER WIRING SHALL BE MINIMUM 12 AWG, CU, 600V, 41/30 STRANDED MTW WIRE. 24V WIRING SHALL BE 16 AWG, MTW WIRE, CU, 600V, STRANDED.
- ALL WIRING SHALL BE NEATLY TIE WRAPPED IN TRUNKS AND SECURED TO PANEL.
- OPTIMUM LOCATIONS OF TERMINAL STRIPS ARE LEFT TO THE DISCRETION OF THE FABRICATOR. LABEL AND NUMBER TERMINALS PER SCHEMATIC.
- MAINTAIN MIN CONDUCTOR BENDING RADIUS PER NEC. CUSTOMER CONDUIT ENTRIES ARE ANTICIPATED AT THE TOP OF THE ENCLOSURE.
- REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE LABELING REQUIREMENTS INCLUDING COLOR, MATERIAL AND THICKNESS.
- NAMEPLATES SHALL HAVE SLIGHTLY CHAMFERED EDGES AND SHALL BE FASTENED TO PANEL USING S.S. SCREWS.
- COMPLETED ENCLOSURE SHALL MEET UL508A REQUIREMENTS AND SHALL BE LABELED ACCORDINGLY.
- PLACE WARNING PLACARD ON FRONT OF METER ENCLOSURE, PER SECTION 260553.
- ROUTE 480V CONDUCTORS AND CAT 6A CABLES IN SEPARATE WIRING DUCTS.
- WIRING DUCT SIZES ARE TYPICAL. FABRICATOR TO ENSURE DUCT SIZE IS ADEQUATE FOR FUTURE METER ADDITIONS.

KEYED NOTES:

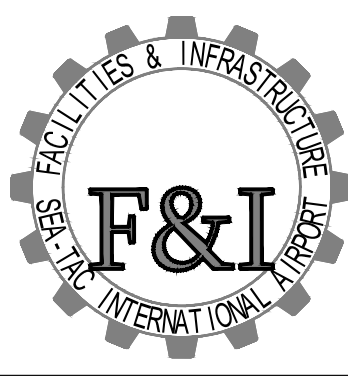
1	REFER TO METER NAMEPLATE SCHEDULE ON SHEET EXXX FOR NAMEPLATE ID NAME AND NUMBER.
2	REFER TO DRAWING EXXX FOR TYPICAL NAMEPLATE DETAILS
3	2" CONDUIT WITH PULL STRING FOR CT WIRING FROM PANELBOARD/SWITCHBOARD.
4	3/4" CONDUIT FOR VOLTAGE CONDUCTORS. PROVIDE CONNECTION FROM 480V POWER CIRCUIT TO SUPPLY POWER FOR METERS.
5	3/4" CONDUIT WITH 2#12, #12G. PROVIDE 120V POWER FOR METERS.
6	3/4" CONDUIT WITH PULL STRING UP TO JUNCTION BOX ON CEILING
7	2" CONDUIT (TYP) WITH PULL STRING FOR COMM CABLING. SIZE CONDUIT AS NEEDED.

BILL OF MATERIALS (METERING ENCLOSURE)

ITEM	DESCRIPTION	QTY	MANUFACTURER	PART NO.
1	UL LISTED NEMA 12 SINGLE DOOR ENCLOSURE 72"H x 30"W x 18"D	1	HOFFMAN, MIDWEST OR APPROVED EQUAL (AE)	A72H3118FS
2	BACKPANEL (INTERIOR)	1	HOFFMAN, MIDWEST OR AE	AP30
3	19" RACK PANEL WITH 3 RACK UNITS 19"W x 5.25"H	1	HOFFMAN, CHATSWORTH OR AE	P1J9RP3UA
4	POWER SUPPLY (PS), 24VDC, 48 VA, SIZE 5.3"W x 3.75"D x 3.21"H	2	EATON	ELC-P502
5	GATEWAY	1	EATON	POWER EXPERT 600A
6	NETWORK SWITCH, SIZE 1.73"H x 17.7"W x 9.52"D	1	CISCO	WS-C2960+24TC-L
7	TYPE 3 DIN RAIL	VARIES	COOPER OR AE	
8	POWER METER	VARIES	EATON	PXM 3000 MA15
9	END BRACKET	VARIES	MARATHON SPECIAL PRODUCTS OR AE	
10	TERMINAL BLOCK	VARIES	MARATHON SPECIAL PRODUCTS OR AE	603GP03
11	FUSED DISCONNECT SWITCH	VARIES	MARATHON SPECIAL PRODUCTS OR AE	FDS-30-C-1, FDS-30-C-3
12	FAST ACTING FUSES, 0.1A	VARIES	LITTELFUSE, BUSSMAN OR AE	OKLK.100
13	TIME DELAY FUSES, 3A	VARIES	LITTELFUSE, BUSSMAN OR AE	FLQ003
14	WIRING DUCT, LIGHT GRAY W/COVER, 1.25"W x 3"H	VARIES	PANDUIT, THOMAS & BETTS OR AE	
15	WIRING DUCT, LIGHT GRAY W/COVER, 1.75"W x 3"H	VARIES	PANDUIT, THOMAS & BETTS OR AE	
16	WIRING DUCT, LIGHT GRAY W/COVER, 2.75"W x 3"H	VARIES	PANDUIT, THOMAS & BETTS OR AE	
17	CT SHORTING BLOCKS (CTSB)	VARIES	MARATHON SPECIAL PRODUCTS OR AE	1506SC
18	DOUBLE GANG BACKBOX W/ NEMA 5-20R RECEPTACLES AND COVER	1	HUBBELL, LEVITON OR APPROVED AE	5-20R
19	UPS, SIZE 6.34"H x 5.43"W x 14.29"D	1	APC OR AE	SMT750
20	LOCK FOR METER ENCLOSURE	1	COORDINATE WITH PORT ELECTRIC SHOP	

REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
2	03/01/2020	KDM	2020 F&I STANDARD DETAILS						
2	03/01/2023	KDM	2023 F&I STANDARD DETAILS						
4	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:



SEA-TAC INTERNATIONAL AIRPORT
F&I STANDARD DETAILS

SHEET TITLE: **METER ENCLOSURE ELEVATIONS AND DETAILS**
TYPICAL OF CABINET WITH CAPACITY FOR 12 METERS

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 27 13 - 01

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METER NAMEPLATE SCHEDULE						
ITEM	EQUIPMENT	1ST LINE	2ND LINE	3RD LINE	4TH LINE (COMM RM. NO.)	LETTERING HEIGHT
1	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
2	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
3	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
4	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
5	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
6	METER	< METER NUMBER >	< LOAD METERED >	< LOAD DESCRIPTION >	< ER.1234.5 >	3/8"
7	METER ENCLOSURE	METER CABINET	< CABINET NUMBER >	FED FROM	< PANEL NUMBER >	3/8"

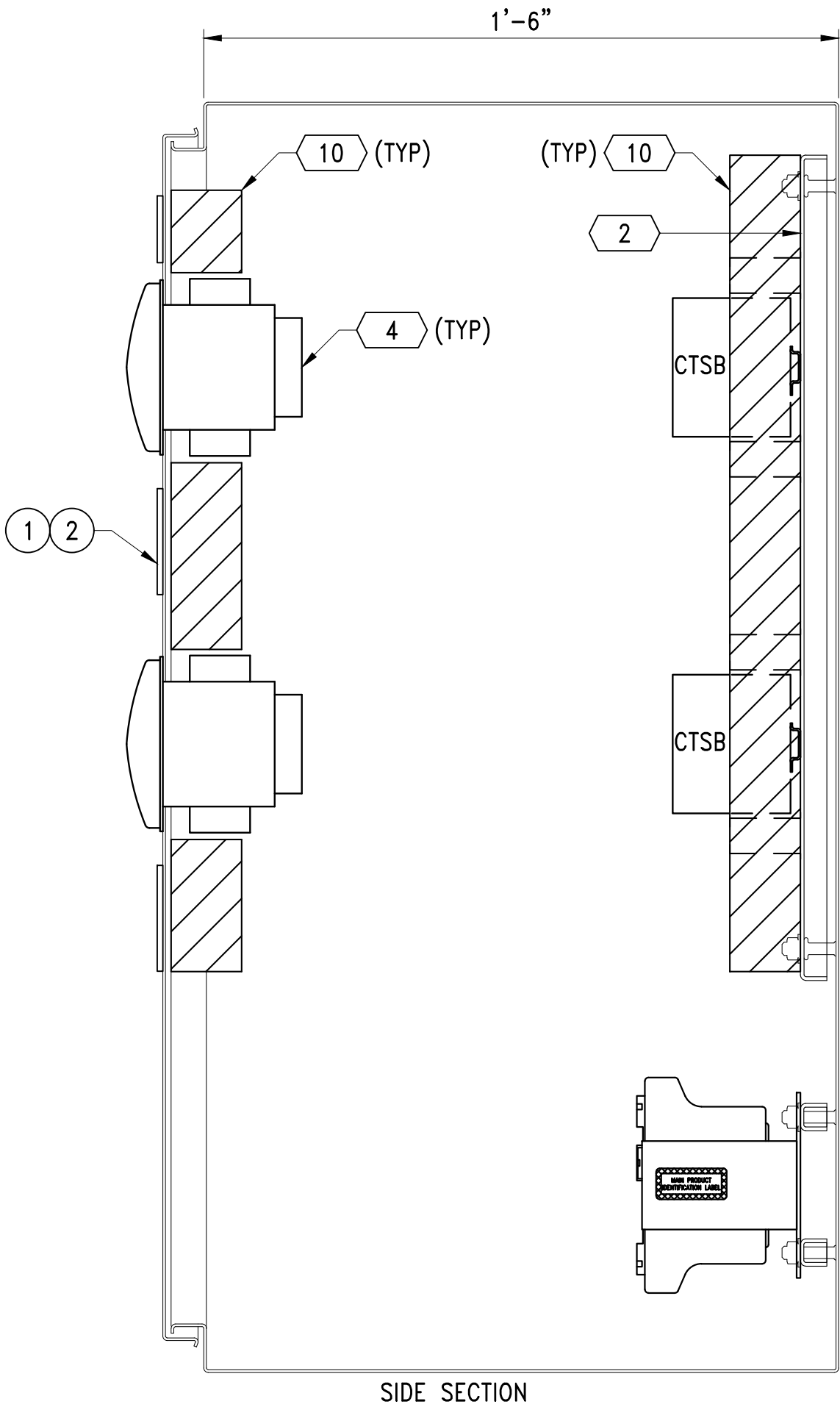
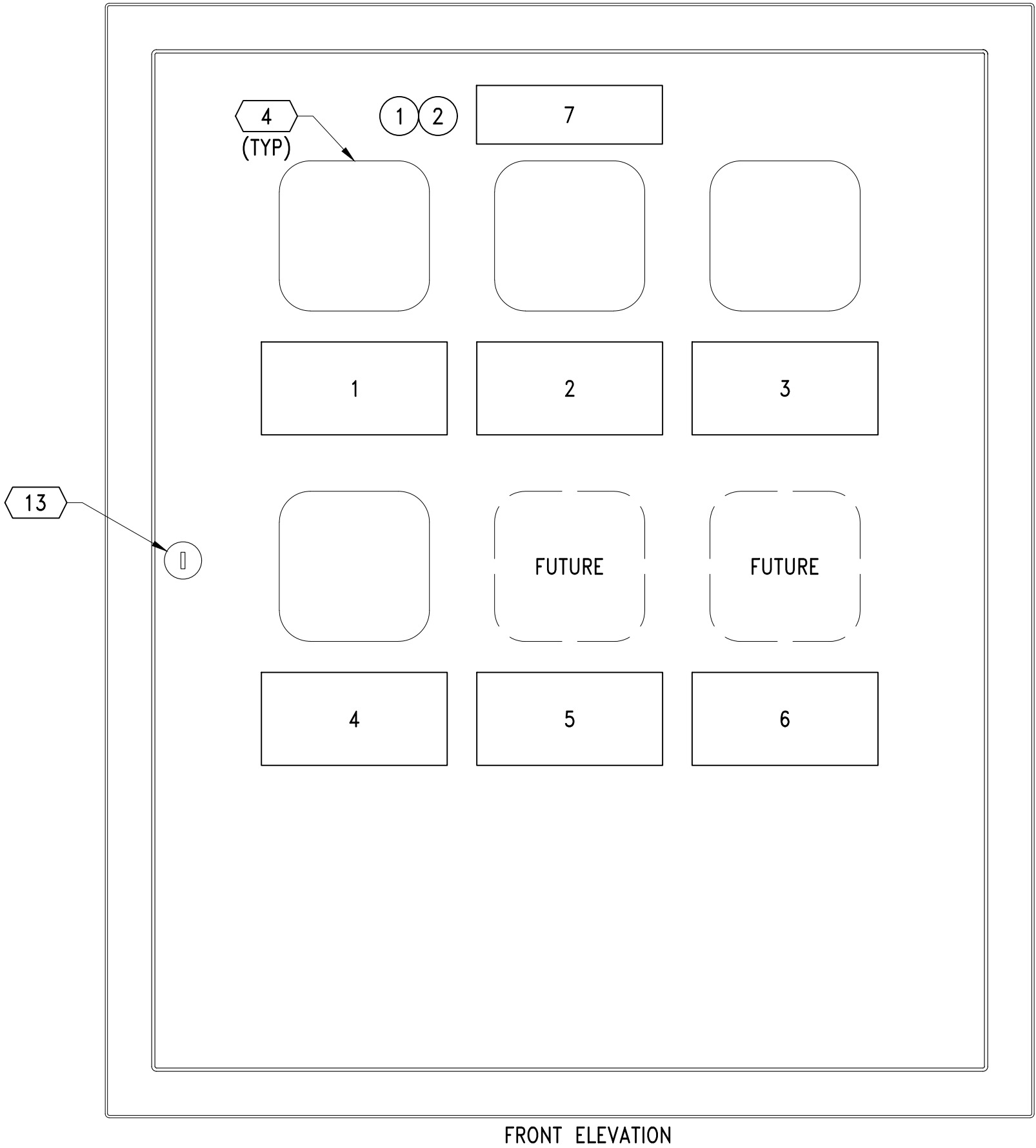
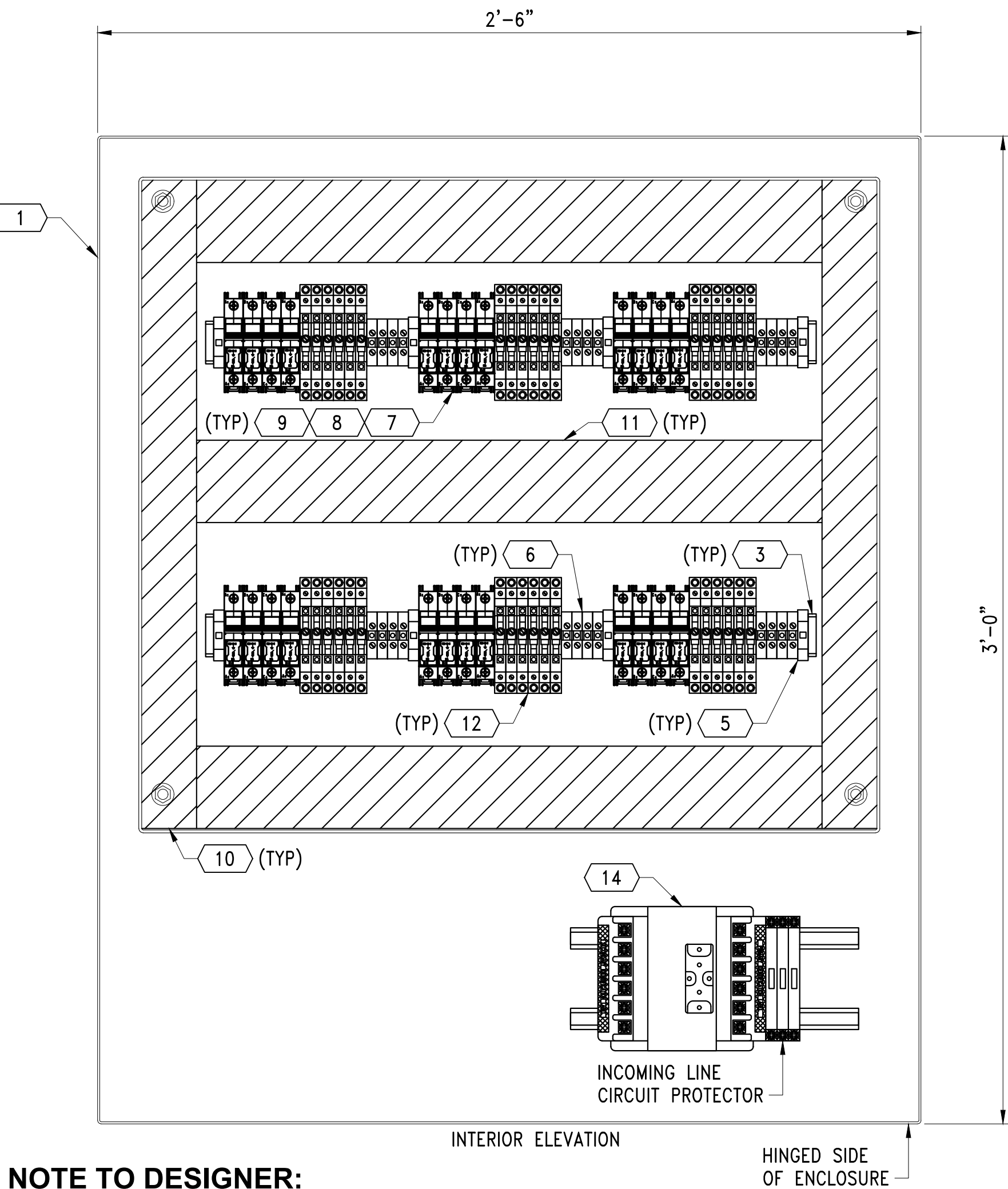
BILL OF MATERIALS (METERING ENCLOSURE)				
ITEM	DESCRIPTION	QTY	MANUFACTURER	PART NO.
1	UL LISTED NEMA 12 SINGLE DOOR ENCLOSURE 30"H x 30"W x 18"D	1	HOFFMAN, MIDWEST OR APPROVED EQUAL (AE)	A30H3118FS
2	BACKPANEL (INTERIOR)	1	HOFFMAN, MIDWEST OR AE	AP30
3	TYPE 3 DIN RAIL	VARIES	COOPER OR AE	
4	POWER METER	VARIES	EATON	PXM 3000 MA15
5	END BRACKET	VARIES	MARATHON SPECIAL PRODUCTS OR AE	
6	TERMINAL BLOCK	VARIES	MARATHON SPECIAL PRODUCTS OR AE	603GP03
7	FUSED DISCONNECT SWITCH	VARIES	MARATHON SPECIAL PRODUCTS OR AE	FDS-30-C-1, FDS-30-C-3
8	FAST ACTING FUSES, 0.1A	VARIES	LITTELFUSE, BUSSMAN OR AE	OKLK.100
9	TIME DELAY FUSES, 3A	VARIES	LITTELFUSE, BUSSMAN OR AE	FLQ003
10	WIRING DUCT, LIGHT GRAY W/COVER, 1.75"W x 3"H	VARIES	PANDUIT, THOMAS & BETTS OR AE	
11	WIRING DUCT, LIGHT GRAY W/COVER, 2.75"W x 3"H	VARIES	PANDUIT, THOMAS & BETTS OR AE	
12	CT SHORTING BLOCKS (CTSB)	VARIES	MARATHON SPECIAL PRODUCTS OR AE	1506SC
13	LOCK FOR METER ENCLOSURE	1	COORDINATE WITH PORT ELECTRIC SHOP	
14	CONTROL POWER TRANSFORMER	1	EATON, SCHNEIDER, OR AE	

GENERAL NOTES:

- METERING ENCLOSURE DESCRIPTION:
UL LISTED NEMA 12 ENCLOSURE WITH POWER METERS, NETWORK SWITCH AND GATEWAY, PRE-WIRED WITH POWER SUPPLY, TERMINAL BLOCKS AND CT SHORTING BLOCKS. METER DISPLAY MOUNTS ON PANEL DOOR.
- METERING ENCLOSURE FABRICATOR SHALL COORDINATE INSTALLATION OF EQUIPMENT WITH MANUFACTURER OF POWER METERS PRIOR TO CONSTRUCTION.
- METERING ENCLOSURE FABRICATOR SHALL PROVIDE INSTALLATION OF ALL DEVICES INDICATED REQUIRING ONLY THE CUSTOMER'S EXTERNAL CONNECTIONS TO PRODUCE A FULLY OPERATIONAL METERING ENCLOSURE. PROVIDE ALL INTERNAL WIRING INCLUDING CONNECTIONS FROM CT SHORTING BLOCKS TO METERS MOUNTED ON FRONT OF ENCLOSURE.
- FABRICATOR FURNISHED ITEMS ARE LISTED BUT ARE NOT NECESSARILY LIMITED TO THE BILL OF MATERIALS.
- POWER WIRING SHALL BE MINIMUM 12 AWG, CU, 600V, 41/30 STRANDED MTW WIRE. 24V WIRING SHALL BE 16 AWG, MTW WIRE, CU, 600V, STRANDED.
- ALL WIRING SHALL BE NEATLY TIE WRAPPED IN TRUNKS AND SECURED TO PANEL.
- OPTIMUM LOCATIONS OF TERMINAL STRIPS ARE LEFT TO THE DISCRETION OF THE FABRICATOR. LABEL AND NUMBER TERMINALS PER SCHEMATIC.
- MAINTAIN MIN CONDUCTOR BENDING RADIUS PER NEC. CUSTOMER CONDUIT ENTRIES ARE ANTICIPATED AT THE TOP OF THE ENCLOSURE.
- REFER TO SPECIFICATION SECTION 260553 FOR NAMEPLATE LABELING REQUIREMENTS INCLUDING COLOR, MATERIAL AND THICKNESS.
- NAMEPLATES SHALL HAVE SLIGHTLY CHAMFERED EDGES AND SHALL BE FASTENED TO PANEL USING S.S. SCREWS.
- COMPLETED ENCLOSURE SHALL MEET UL508A REQUIREMENTS AND SHALL BE LABELED ACCORDINGLY.
- PLACE WARNING PLACARD ON FRONT OF METER ENCLOSURE, PER SECTION 260553.
- ROUTE 480V CONDUCTORS AND CAT 6A CABLES IN SEPARATE WIRING DUCTS.
- SEE THIS SHEET FOR BILL OF MATERIALS.
- CONTACT ELECTRICAL SHOP TO COORDINATE INSTALLATION AND CONNECTION OF METERING CABINET. ELECTRICAL SHOP MAY BE REACHED AT PHONE NUMBER 206-787-5311. ELECTRICAL SHOP FOREMAN: SLAVI KOSYUK (C) 206-437-6187, STEVE LEWIS (C) 206-595-9639, KRISTEL MANNEY (O) 206-305-6861.

KEYED NOTES

- REFER TO METER NAMEPLATE SCHEDULE ON SHEET EXXX FOR NAMEPLATE ID NAME AND NUMBER.
- REFER TO DRAWING EXXX FOR TYPICAL NAMEPLATE DETAILS.



NOTE TO DESIGNER:
COORDINATE WITH F&I FOR CAPACITY
REQUIREMENTS OF METERING CABINET.

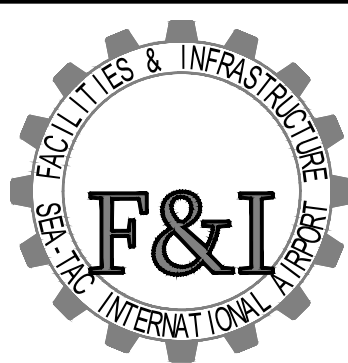
DETAIL

METERING ENCLOSURE
SCALE: 1/4" = 1'-0"

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REVISIONS

NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	03/01/2019	KDM	2019 F&I STANDARD DETAILS						
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3	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



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PROJECT ENGINEER:	
DESIGN ENGINEER:	
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N.T.S.	
DATE:	
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Port of Seattle
SEA-TAC INTERNATIONAL AIRPORT
PROJECT: F&I STANDARD DETAILS

SHEET TITLE: METER ENCLOSURE ELEVATIONS AND DETAILS
TYPICAL OF CABINET WITH CAPACITY FOR 4 - 6 METERS

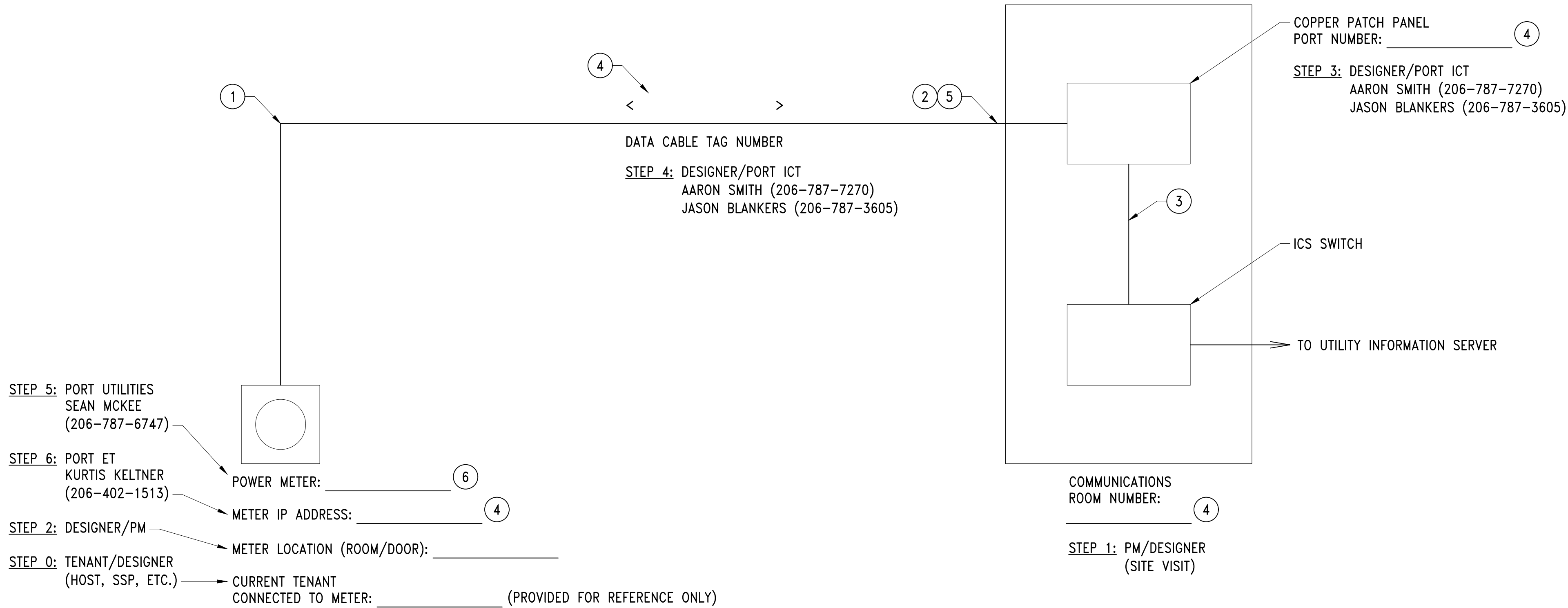
WORK PROJECT NO.

CONSULTANT'S NO.

PORT OF SEATTLE NO.

26 27 13 - 02

\\SEATTLEINTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\02-CAD-STANDARDS\01-DIV265-WORKING\DWG\262713-04.DWG:SAVED: 3/14/2025 9:23 PM MZB926 PLOTTED:4/7/2025 9:32 AM



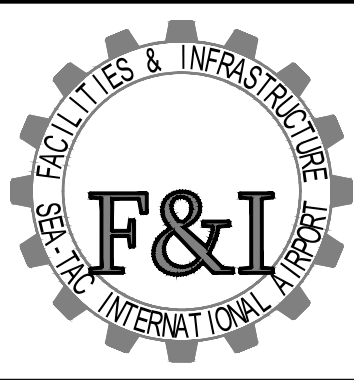
GENERAL NOTES:

1. DATA CABLE SHALL BE SYSTIMAX CATEGORY-6 CABLES.
2. DATA CABLE INSTALLATION SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS GIVEN IN CONSTRUCTION SPECIFICATION DIVISION 27.


KEYED NOTES

- 1 CONTRACTOR SHALL TERMINATE, CONNECT, AND ROUTE COMMUNICATIONS CABLING IN MINIMUM 1" CONDUIT. CONDUIT CABLE FILL SHALL COMPLY WITH 40% MAX FILL AS GIVEN IN TIA-569-C.
- 2 CONTRACTOR SHALL ROUTE DATA CABLING AND CONDUIT TO COMM ROOM AND TERMINATE CABLES ON PATCH PANEL.
- 3 PORT ET TO CROSS CONNECT. CONTACT MICAH EGGER (ET SHOP) AT 206-218-3787.
- 4 PORT PM TO SUBMIT REQUEST AT START MEETING FOR METER IP ADDRESS, DATA CABLE TAG NUMBER, PATCH PANEL PORT NUMBER AND COMM ROOM NUMBER.
- 5 DEPENDING ON METER CABINET CONFIGURATION, COPPER DATA CABLE MAY TERMINATE ON SWITCH IN METER CABINET WITH FIBER LEAVING METER CABINET AND RUNNING TO COMM ROOM.
- 6 PORT UTILITIES SHALL ASSIGN METER NUMBER AT INITIAL PEST MEETING.

R E V I S I O N S									
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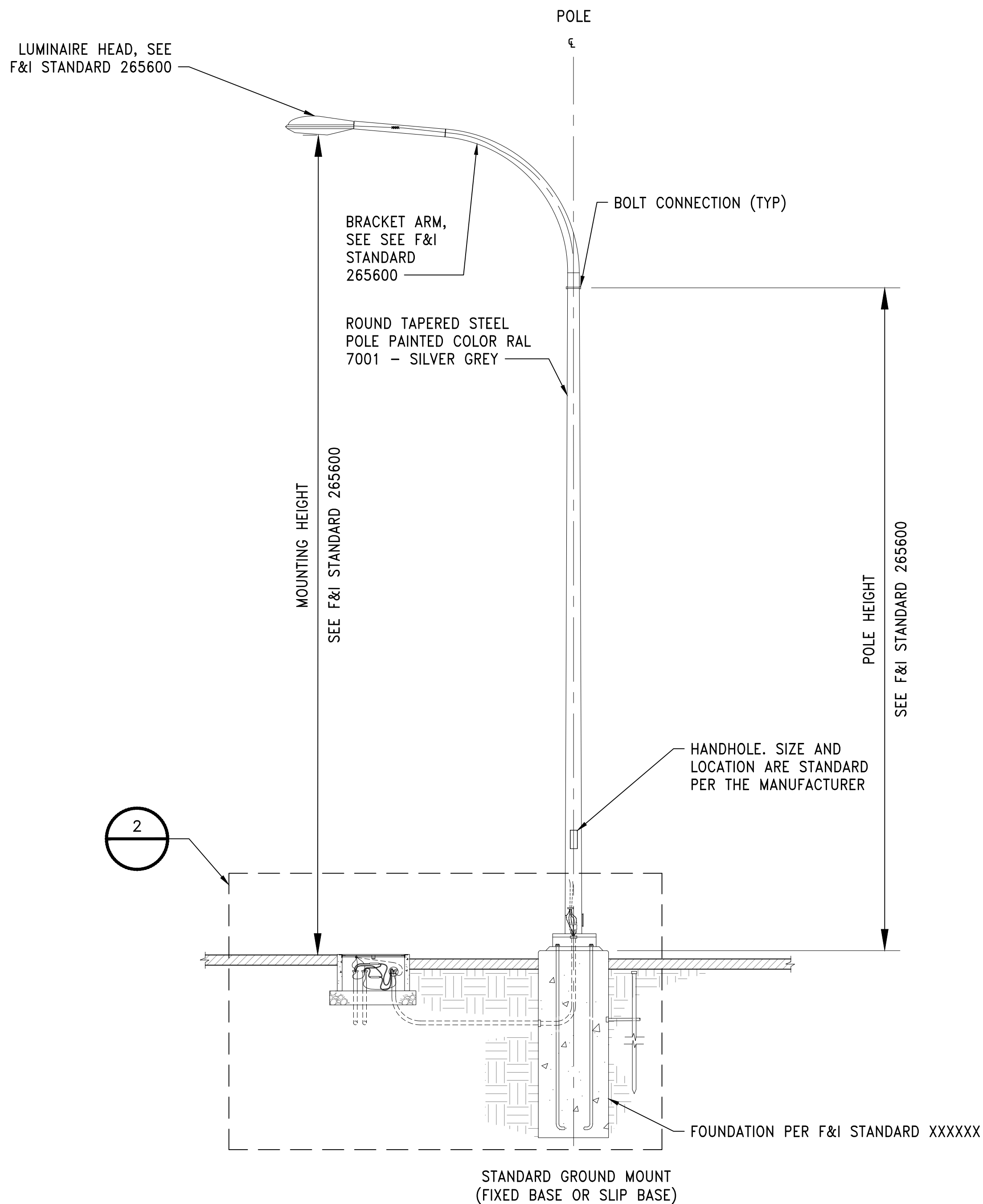
SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

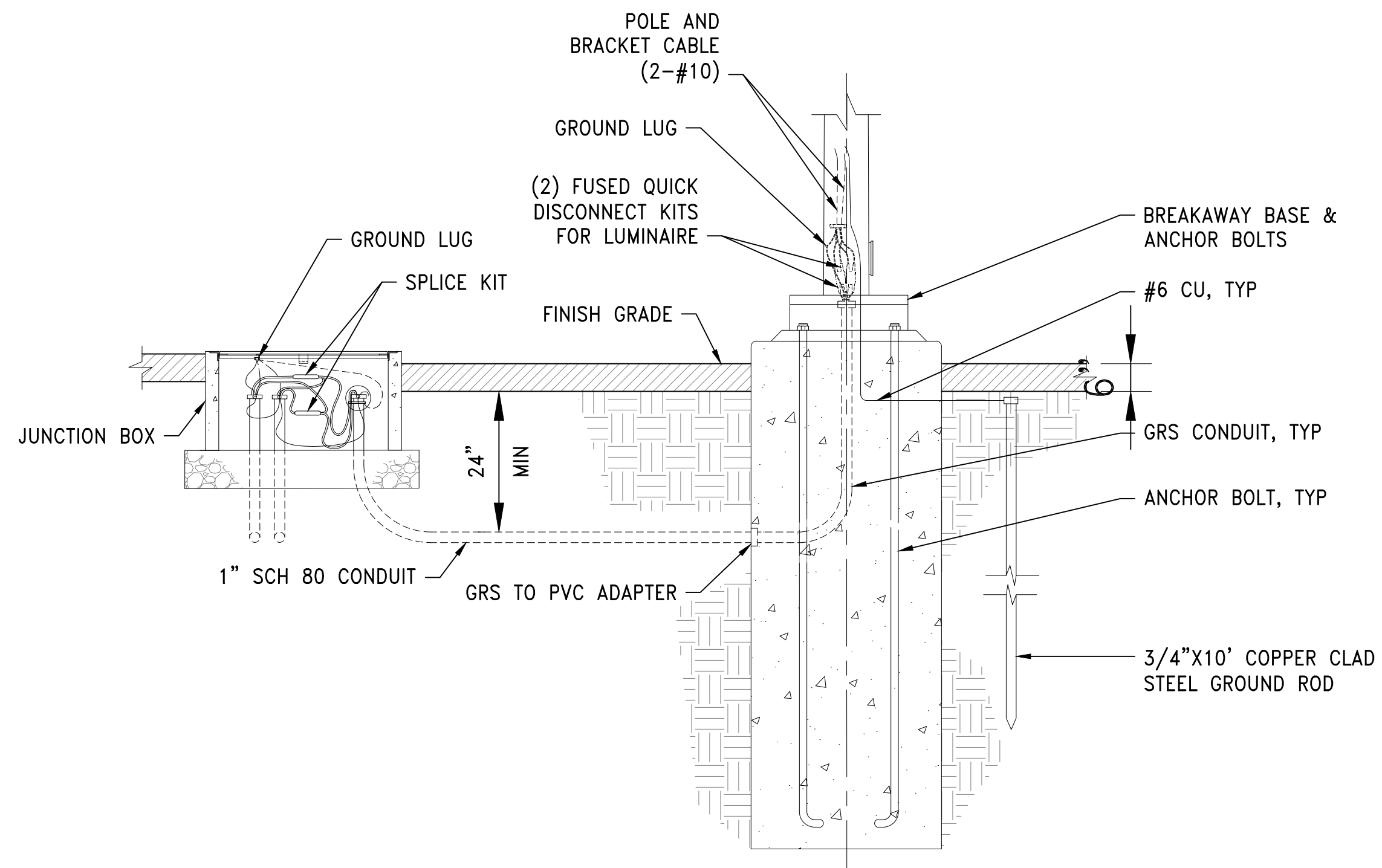
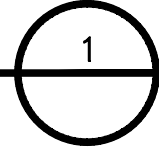
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WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 27 13 - 04

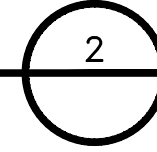
\\SEATTLE\INTERNAL\LOCAL\PORT\AVIATION\AVIATION-AV-ISO\F&I\ELECTRICAL\10-STANDARDS\10-STANDARDS\02-CAD-STANDARDS\01-DIV25-WORKING\DWG\265600-01.DWG - SAVED: 3/14/2025 8:23 PM - AZB826 PLOTTED 4/7/2025 9:32 AM



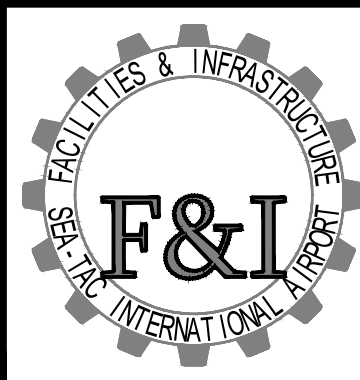
DETAIL
LIGHT POLE AND LUMINAIRE
SCALE: NTS



DETAIL
TYPICAL LOCATION OF JUNCTION BOX
AND FOUNDATION
SCALE: NTS



REVISIONS									
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY	DESCRIPTION	APP'D
1	04/21/2023	KDM	2023 F&I STANDARD DETAILS						
2	04/07/2025	MDR	2025 F&I STANDARD DETAILS						



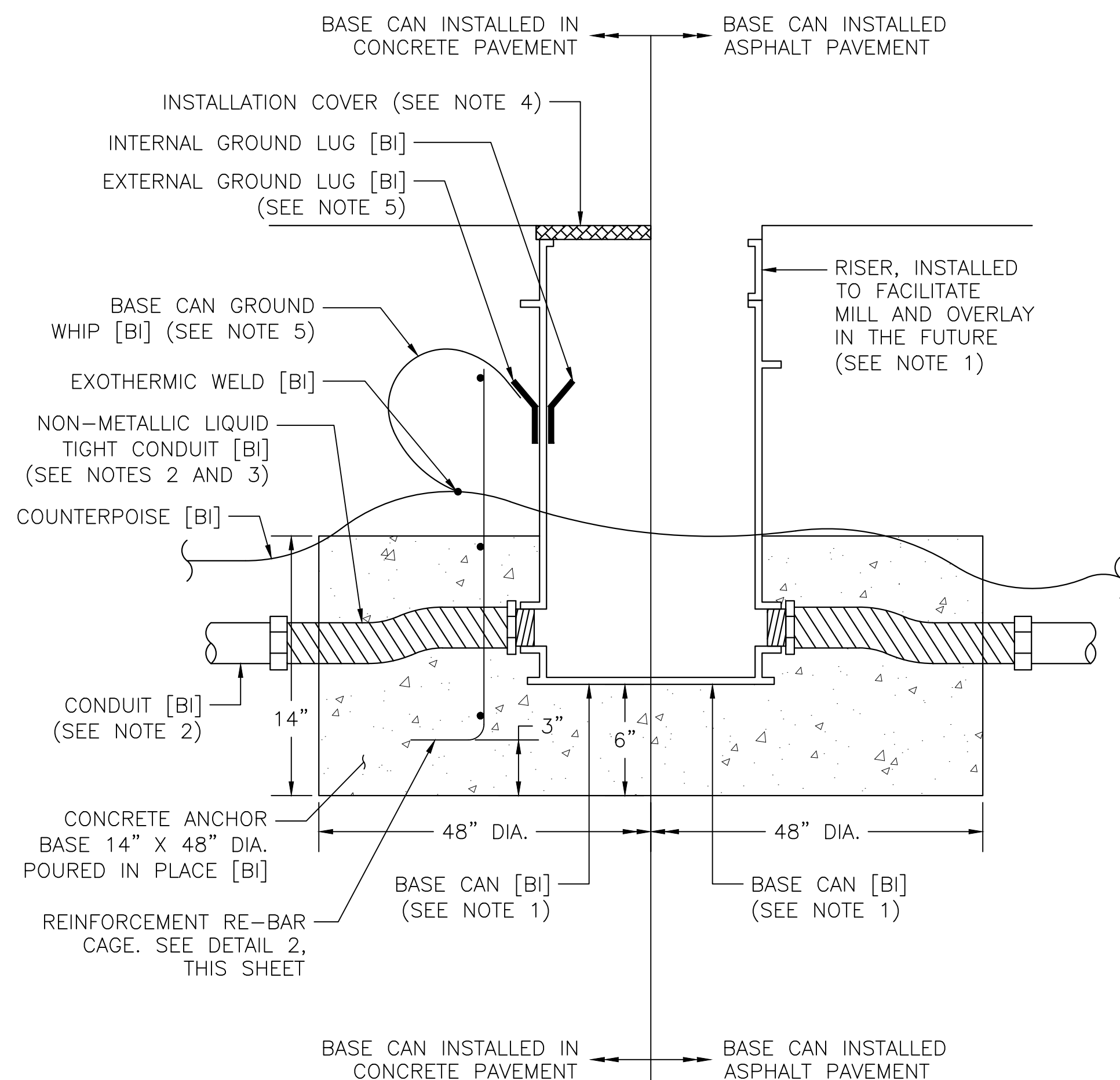
PROJECT MANAGER:	
PROJECT ENGINEER:	
DESIGN ENGINEER:	
DRAFTER:	
SCALE:	N.T.S.
DATE:	
CHECKED/APPROVED BY:	

Port of Seattle SEA-TAC INTERNATIONAL AIRPORT

PROJECT: **F&I STANDARD DETAILS**

SHEET TITLE: **ILLUMINATION POLE AND FOUNDATION**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 56 00 - 01



[BI] - BOTH INSTALLATION

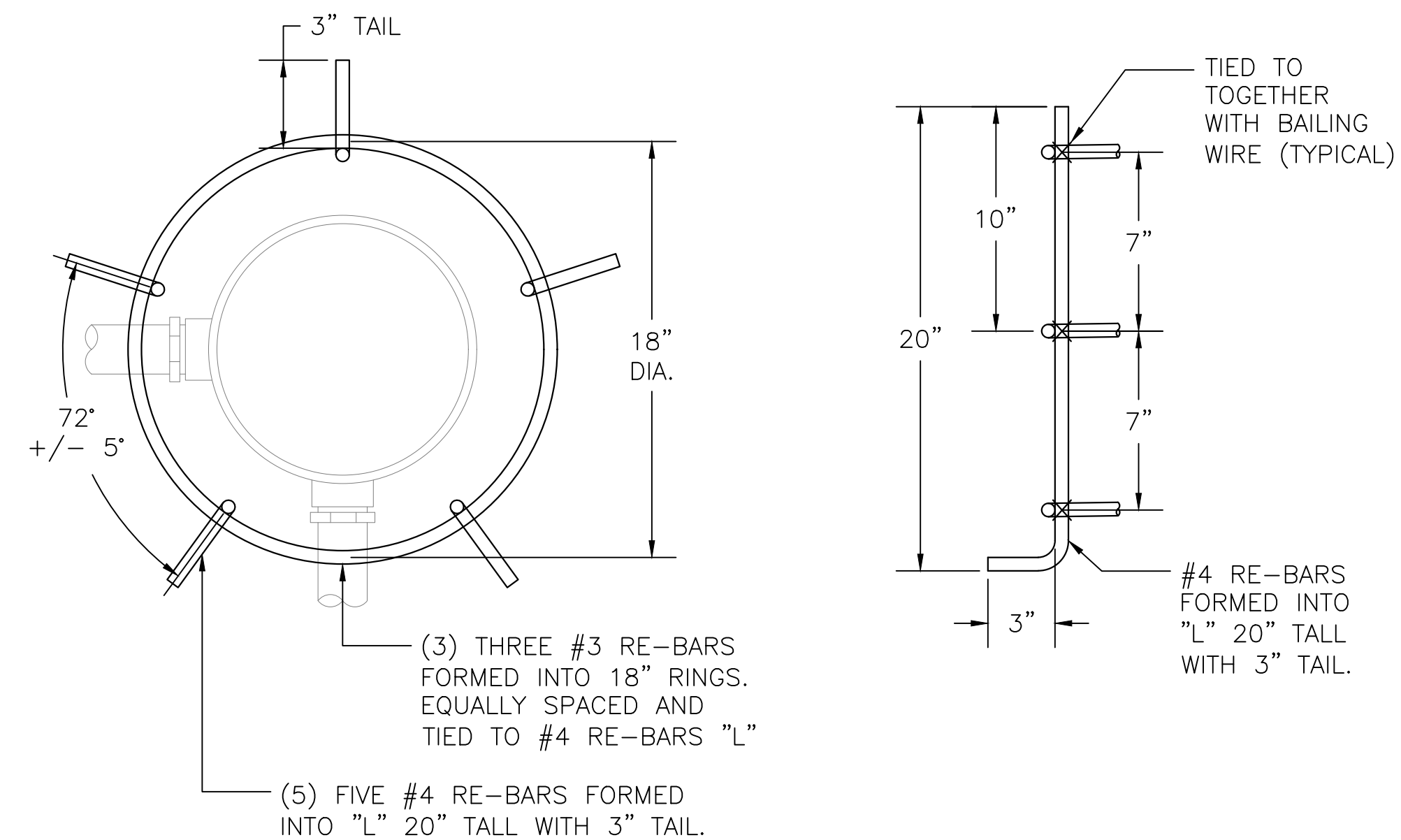
SECTION

TYPICAL BASE CAN INSTALLATION
SCALE: NTS

1
—

BASE CAN INSTALLATION NOTES:

1. BASE CAN SHALL BE ORDER WITH THREADED HUBS BASED ON PLANS AND FIELD CONDITIONS. FIELD INSTALLED CORE WITH GROMMETS ARE NOT ACCEPTABLE.
 - A. TYPICAL BASE CAN DIAMETER IS 12" (SIZE B) UNLESS OTHERWISE IDENTIFIED.
 - B. BASE CAN INSTALLED IN CONCRETE SHALL BE 24" DEEP TYPICALLY UNLESS OTHERWISE STATED.
 - C. BASE CAN INSTALLED IN ASPHALT PAVEMENT SHALL BE 18" DEEP WITH A 6" RISER TYPICALLY UNLESS OTHERWISE STATED.
 - D. BASE CAN INSTALLED IN AIRCRAFT MOVEMENT PAVEMENT SHALL BE L-868, AND 60" OFF NEAREST AIRCRAFT MOVEMENT PAVEMENT EDGE.
 - E. BASE CAN INSTALLED IN SHOULDER OR GRASS AREA SHALL BE L-867, UNLESS OTHERWISE CALLED OUT.
2. CONDUIT TYPE PER PLANS, TYPICALLY PVC. CONDUIT SIZED PER PLANS, TYPICALLY SIZE 2".
3. TYPICALLY 30" LONG LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) MATCHING CONDUIT SIZE. WHERE CONDUIT CONNECTION BETWEEN BASE CANS IS LESS THAN TEN FEET (10') LFNC MAYBE USED BETWEEN BASE CANS.
4. INSTALL 3/4" PLYWOOD COVER DURING INSTALLATION OF BASE CAN.
5. BASE CAN GROUND WHIP SHALL BE #6 AWG BARE COPPER. INSTALL CRIMPED RING TERMINAL TO BASE CAN GROUND WHIP AND MECHANICALLY CONNECT TO EXTERNAL GROUND LUG. EXOTHERMICALLY WELD OTHER END OF BASE CAN GROUND WHIP TO COUNTERPOISE.

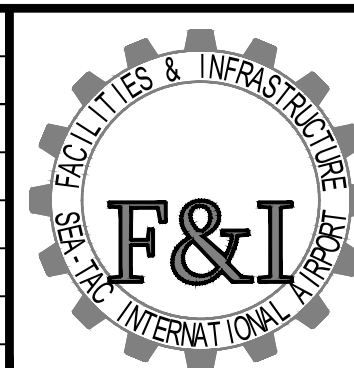


PLAN

ELEVATION

DETAIL

BASE CAN REINFORCING CAGE
SCALE: NTS

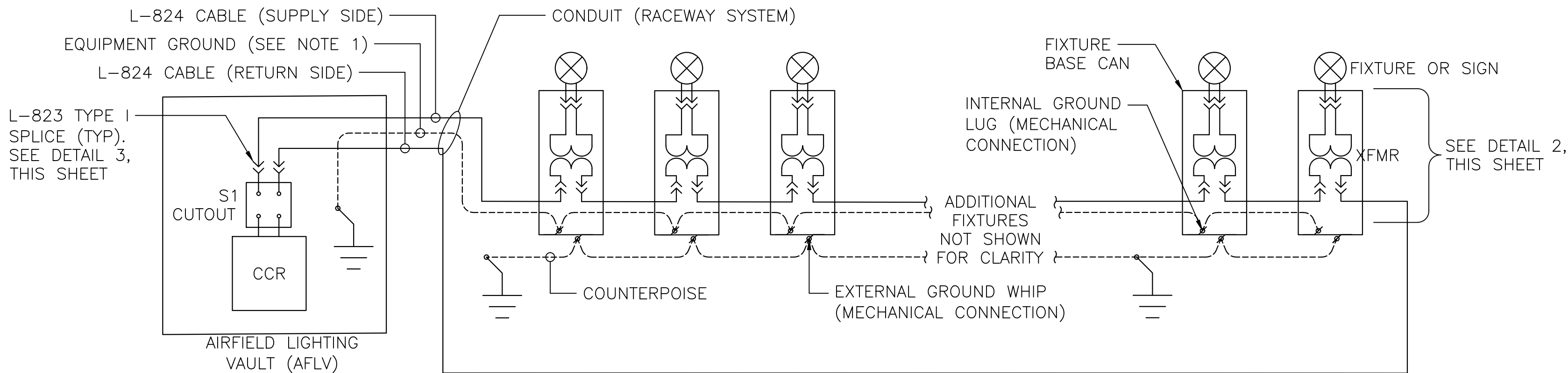
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PROJECT MANAGER:	—
PROJECT ENGINEER:	—
DESIGN ENGINEER:	—
DRAFTER:	—
SCALE:	N.T.S.
DATE:	—
CHECKED/APPROVED BY:	—


 SEA-TAC INTERNATIONAL AIRPORT
 PROJECT: **F&I STANDARD DETAILS**
 SHEET TITLE: **AIRFIELD LIGHTING DETAIL 1**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 65 00 - 01

\\SEATTLE\INTERNAL\LOCAL\PORT AVIATION\AVIATION\AV-ISO\F&I ELECTRICAL\10-STANDARDS\02-CAD STANDARDS\01-DWG\WORKING\DWG\26550P-DL_AIRFIELD.DWG SAVED: 4/7/2025 9:18 AM MZB926 PLOTTED:4/7/2025 9:32 AM

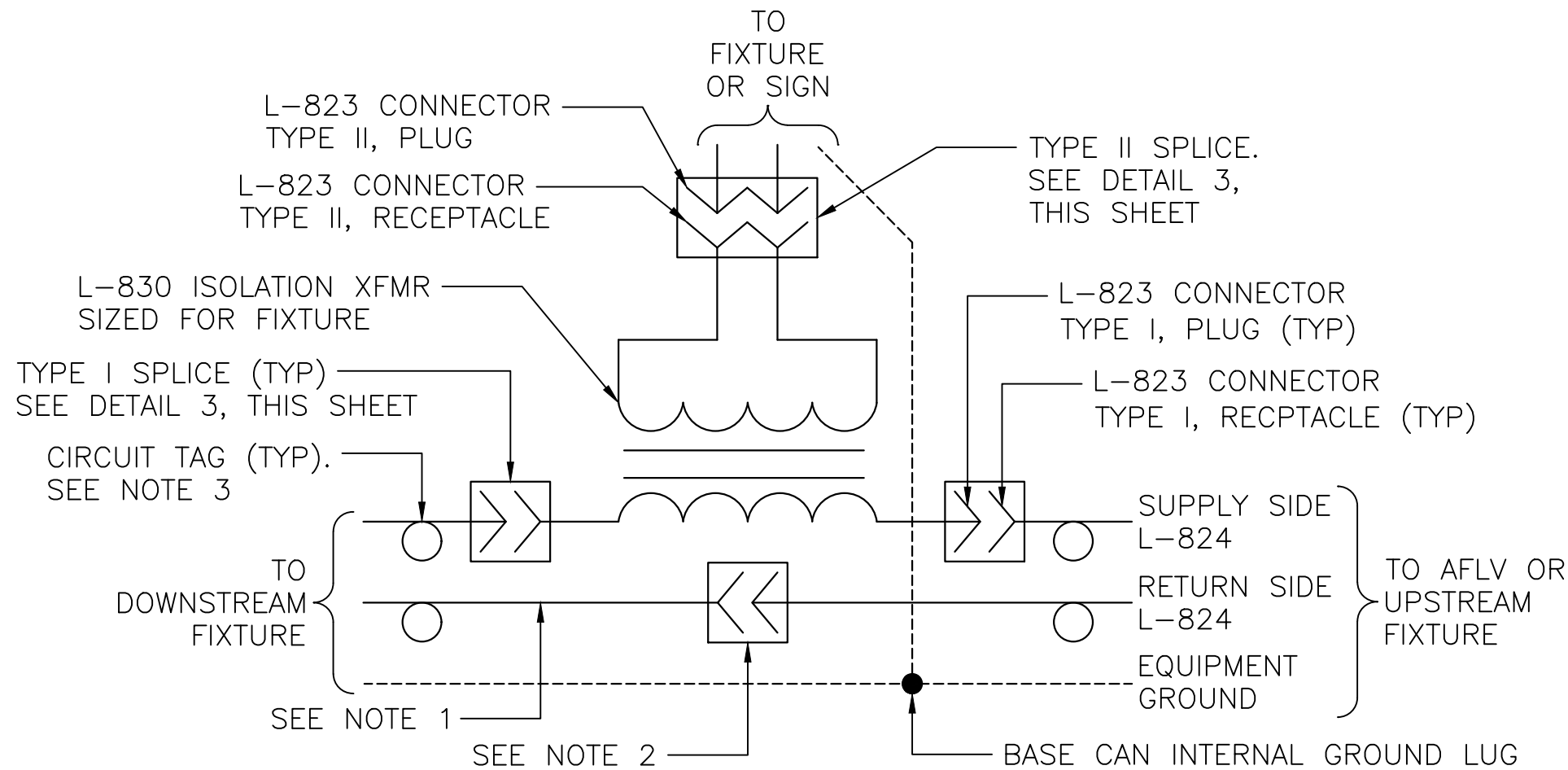
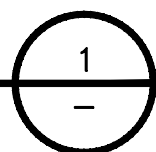


TYPICAL CONSTANT CURRENT ONE-LINE NOTES:

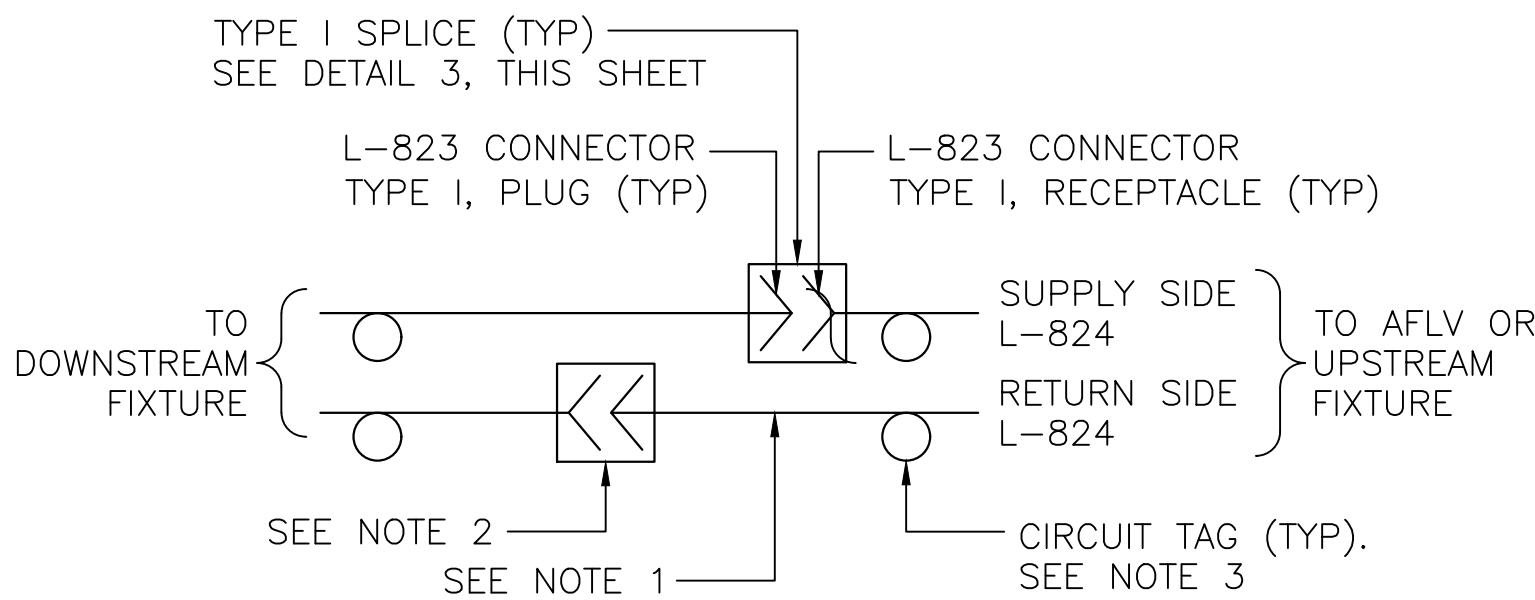
1. A SINGLE EQUIPMENT GROUND SHALL BE IN THE CONDUIT (RACEWAY) OF THE AIRFIELD LIGHTING CIRCUIT.

DETAIL

TYPICAL CONSTANT CURRENT
CIRCUIT ONE-LINE
SCALE: NTS



TYPICAL FIXTURE OR SIGN ONE-LINE



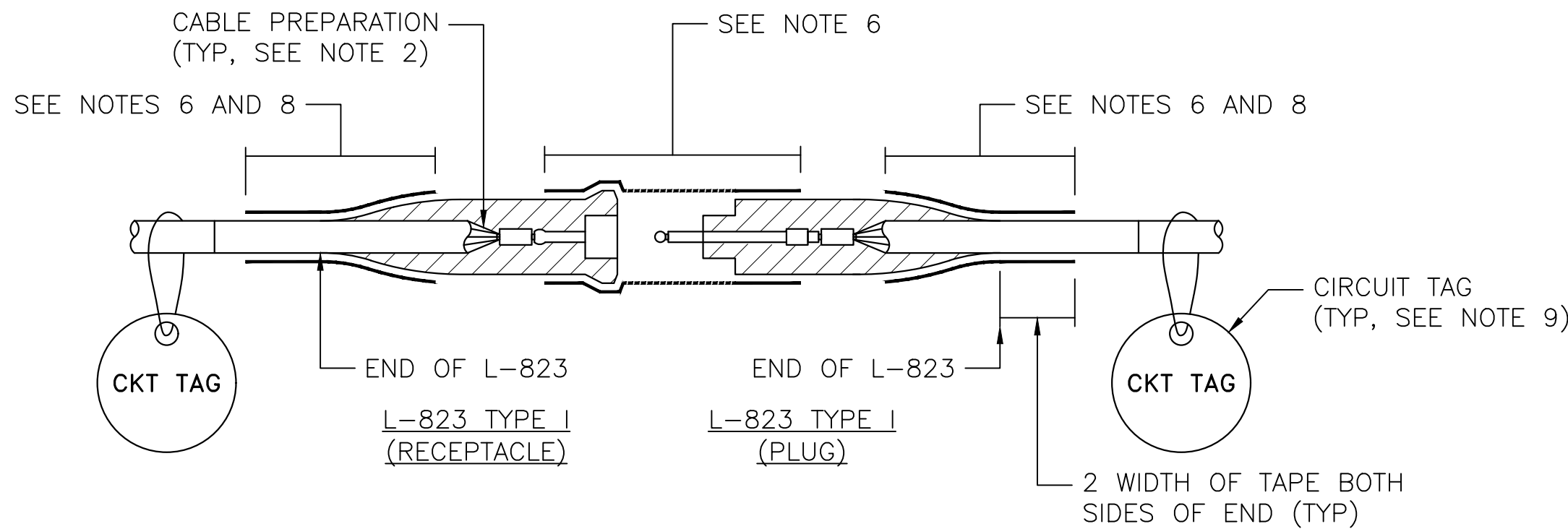
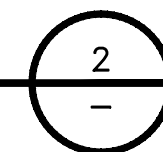
TYPICAL SPLICE ONE-LINE

ONE-LINE L-823 AND L-824 NOTES:

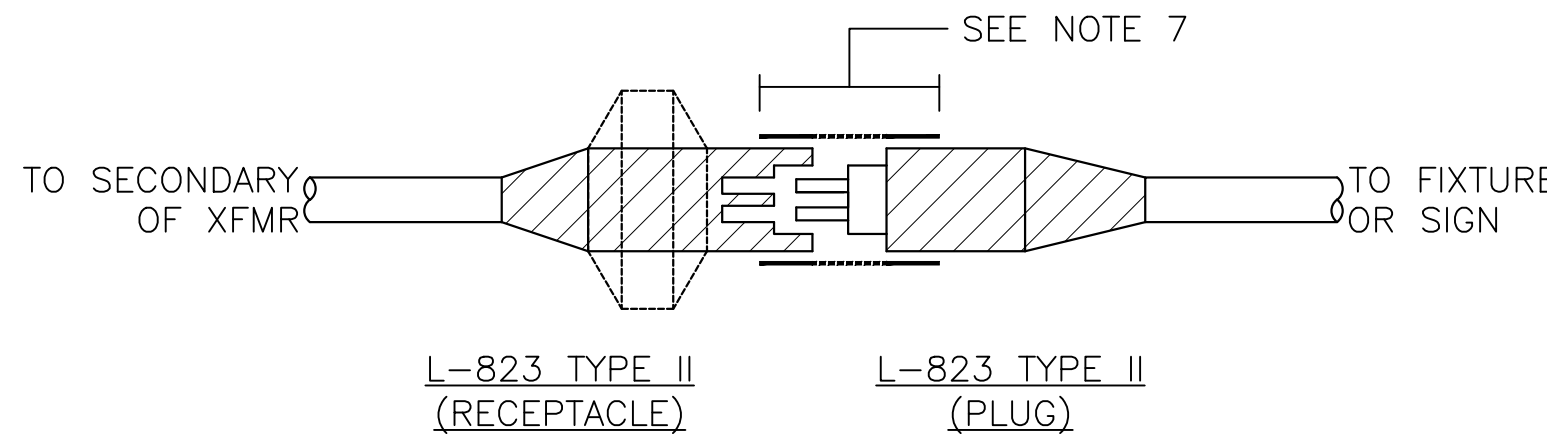
1. RETURN CONDUCTOR NOT ALWAYS PRESENT.
2. L-823 CONNECTOR ON RETURN CONDUCTOR NOT ALWAYS PRESENT.
3. CIRCUIT TAGS SHALL BE INSTALLED ON BOTH SIDES OF A FIELD INSTALLED L-823 SPLICE. IF A RETURN CONDUCTOR IS WITHOUT A L-823 SPLICE INSTALLED A SINGLE CIRCUIT TAG IS ACCEPTABLE ON THAT CONDUCTOR.

DETAIL

TYPICAL L-823 AND L-824
CONNECTION ONE-LINE
SCALE: NTS



TYPE I - PRIMARY (5KV) CONNECTION



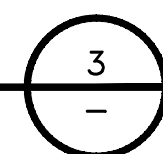
TYPE II - SECONDARY (600V) CONNECTION

AIRFIELD LIGHTING CABLE CONNECTION (L-823) NOTES:

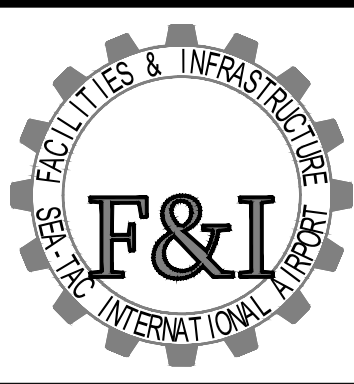
1. PROVIDE PLUG & RECEPTACLE L-823 CONNECTORS AS REQUIRED ON EACH CONDUCTOR AT ACCESS POINT (BASE CAN, HAND HOLE, MANHOLE, ETC) AS INDICATED IN DRAWING OR BY FIELD ENGINEER TO ALLOW ISOLATION OF HOMERUN CIRCUIT.
2. ALL CABLE ENDS SHALL BE PREPARED WITH THE USE OF A TAPERING TOOL SPECIFICALLY DESIGNED FOR USE WITH L-824 CABLES.
3. PLUG AND RECEPTACLE END FITTINGS SHALL BE CRIMPED ONTO THE CONDUCTOR BY USE OF AN AIRPORT PERSONNEL ACCEPTED HYDRAULIC TYPE CRIMPING TOOL.
4. AT THE POINT OF CONNECTION WITH THE EXISTING FIELD CIRCUITS, INSTALL NEW L-823 PLUGS ON BOTH THE NEW AND EXISTING CABLES. VERIFY INSULATION TYPES OF BOTH NEW & EXISTING CABLES & COORDINATE WITH TERMINATION KITS TO ASSURE PROPER AND WATERPROOF FIT.
5. THERE SHALL BE NO SPLICES BETWEEN LIGHTS. SPLICES ALLOWED IN BASES OR ACCESS POINTS ONLY.
6. WRAP AREA WITH TWO LAYERS. EACH WRAP SHALL BE OVERLAPPED BY 1/2 WIDTH OF THE TAPE.
FIRST LAYER IS 1" WIDE, 30-MIL THICK, MEDIUM VOLTAGE, ETHYLENE PROPYLENE RUBBER SPLICING TAPE (3M SCOTCH 130V OR EQUAL)
SECOND LAYER IS 1" WIDE, 8.5-MIL THICK, 600V, VINYL (PVC) TAPE (3M SCOTCH SUPER 88 OR EQUAL).
7. WRAP AREA WITH TWO LAYERS. EACH WRAP SHALL BE OVERLAPPED BY 1/2 WIDTH OF THE TAPE. OMIT TAPE FOR ELEVATED FIXTURES
FIRST LAYER IS 1" WIDE, 8.5-MIL THICK, 600V, VINYL (PVC) TAPE (3M SCOTCH SUPER 88 OR EQUAL).
SECOND LAYER IS 1" WIDE, 8.5-MIL THICK, 600V, VINYL (PVC) TAPE (3M SCOTCH SUPER 88 OR EQUAL).
8. FOR FACTORY MOLDED TYPE I OR TYPE II CONNECTORS, TAPING OF THE ENDS SHALL NOT BE REQUIRED.
9. INSTALL CABLE TAGS ON FIELD CABLES ONLY, AND NOT FACTORY CABLES OF TRANSFORMER.

DETAIL


TYPICAL AIRFIELD LIGHTING CABLE
CONNECTION (L-823)
SCALE: NTS



REVISIONS							
NO.	DATE	BY	DESCRIPTION	APP'D	NO.	DATE	BY
1	01/01/2024	KDM	NEW DETAIL, 2024 F&I STANDARD DETAILS				
2	04/07/2025	MDR	2025 F&I STANDARD DETAILS				



PROJECT MANAGER:
PROJECT ENGINEER:
DESIGN ENGINEER:
DRAFTER:
SCALE:
N.T.S.
DATE:
CHECKED/APPROVED BY:

**SEA-TAC INTERNATIONAL AIRPORT**
PROJECT: **F&I STANDARD DETAILS**
SHEET TITLE: **AIRFIELD LIGHTING DETAIL 2**

WORK PROJECT NO.
CONSULTANT'S NO.
PORT OF SEATTLE NO.
26 65 00 - 02