

LIFE SAFETY LEGEND

UNIT NUMBER	ROOM NAME	OCCUPANCY CLASSIFICATION	SIGIFPERSON	OCCUPANT LOAD	AREA	Comments
CONEXIX						
001	AIR COM CONEX	STORAGE (S-1)	000	1	138 SF	CONEXIX
002	CONEX CONEX	STORAGE (S-1)	000	1	138 SF	CONEXIX
003	ELECT CONEX	STORAGE (S-1)	000	1	159 SF	CONEXIX
004	CONEX CONEX	STORAGE (S-1)	000	3	477 SF	CONEXIX
VB						
001	VB	STORAGE (S-1)	000	9	4004 SF	VB
002	NORTH ENTRY	UNOCCUPIED	0	4	45 SF	VB
003	OUTDOOR GAS STORAGE	UNOCCUPIED	0	0	326 SF	VB
004	SOUTH ENTRY	UNOCCUPIED	0	4	45 SF	VB
004	WEST ENTRY	UNOCCUPIED	0	4	45 SF	VB
VB				9	4422 SF	

LIFE SAFETY ROOM TAG	
ROOM NAME	ROOM NAME
ROOM NUMBER	
ROOM AREA	151
OCCUPANT LOAD FACTOR	
NUMBER OF OCCUPANTS	
LIFE SAFETY EXIT TAG	
EXIT CAPACITY REQUIRED	
EXIT WIDTH PROVIDED	
CAPACITY PROVIDED	
EXIT WIDTH PROVIDED	
EGRESS ROUTE	
EGRESS SEGMENT NAME	Path Segment
EGRESS PATH ORIGIN	
EGRESS PATH DEST	
FIRE PROTECTION	
FIRE EXTINGUISHER RATING AND QUANTITY	FE
A) UL LISTED A-10, 15-B, 15-LB (NOMINAL CAPACITY)	
B) UL LISTED A-10, 15-B, 15-LB (NOMINAL CAPACITY)	FECP
FIRE EXTINGUISHER TYPE AND POWDER TYPE	
A) UL LISTED TYPICAL "A" ONLY CHEMICAL TYPE IN STEEL CONTAINER MODEL #	
B) UL LISTED AAB-B, IGL-B (NOMINAL CAPACITY)	
EMERGENCY SYSTEMS	
EXIT LIGHT	
PORTABLE EYEWASH/SOAKER: B.O.D. - HANSI Model No. 7021	EWS
NOTE: REFER TO TABLE RIGHT FOR CODE REVIEW DETAILS.	

D. Fire Resistance Requirements for Building Elements			
Building Elements	Table 601	0 hr protection for all elements (2)	The largest opening in an exterior wall are from the overhead rolling door and personnel door.
Exterior Walls - Separation Distance	Table 705.5	For a distance of $X \geq 10$, Type II, S-1; there is 0 hr fire resistance requirement for exterior walls.	

Maximum Output Area in Exterior Wall	Table 705.7.1	For a distance of 20' ± to a 2nd of allowable area, unapportioned, there is no limit of allowable area of the exterior wall.			% Total Area of each Elevation 28-31 100% ± 5% 100% ± 5% 100% ± 5% 100% ± 5%
C. General Fire Resistance Requirements					
Interior Finish	Table 803	Interior Finish: 0	Class A: Flame Spread Index 0-25; Smoke Developed Index 0-450		
Interior Finish in Bathrooms and Closets	Table 803	Interior Finish: 0	Class B: Flame Spread Index 26-75; Smoke Developed Index 460-750		
Maximum Floor Area in Occupant	Table 1005.1	Maximum Floor Area: 100 sq ft	Class C: Flame Spread Index 76-200; Smoke Developed Index 760-1000		
Required Egress	Table 1005.2	Required Egress: 100 sq ft	Class D: Flame Spread Index 201-300; Smoke Developed Index 1001-1500		
Minimum Number of	Table 1005.3	Minimum Number of: 2	Class E: Flame Spread Index 301-350; Smoke Developed Index 1501-2000		

ISSUE FOR CONSTRUCTION

DOCUMENT HISTORY

NO.	DESCRIPTION	DATE

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATIONDESIGNED BY
KEN LOWERY
AK NO. 14640
DRAWN BY
BRPH
CHECKED BY
C. KOTRLIK
PROJECT NUMBER
C09729-001
DATE
05/08/2026

FLOOR PLAN

DRAWING NO.
A-101

LEGEND

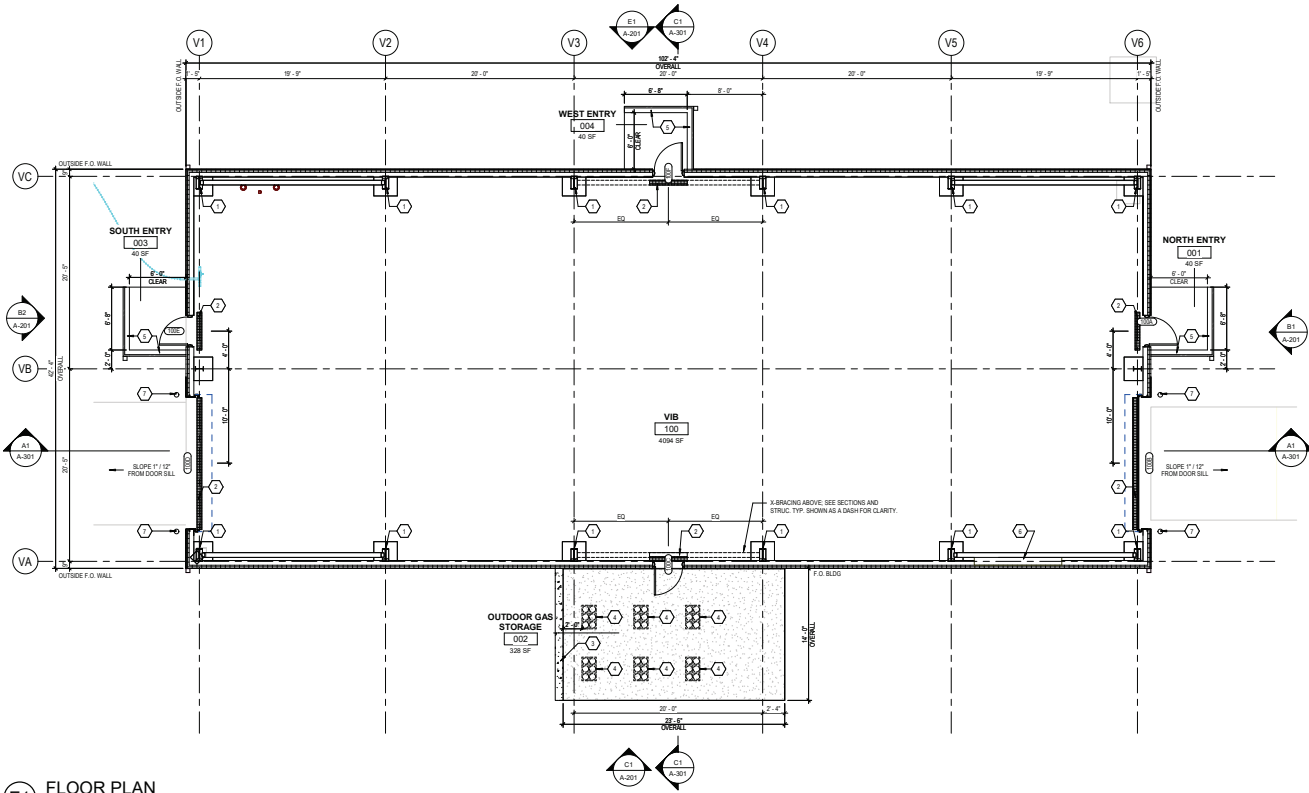
EXTERIOR PEMB INSULATED MTL PANEL WALL (TYP. PEMB WALL)
EXTERIOR PEMB SINGLE SKIN MTL PANEL WALL (ENTRY)

GENERAL NOTES

- REFER TO STRUCTURAL DRAWINGS FOR FOUNDATIONS AND LOADS.
- PRE-ENGINEERED METAL BUILDING PANELS BY SEE SEATED DESIGN. REFER TO PEMB DOCUMENTS FOR ADDITIONAL DETAILS.
- PROVIDE FLOOR APPLIED ELECTRO-STATIC DISBURSIVE (ESD) FLOORING SYSTEM THROUGH VIB OPEN AREA. SYSTEM BASED ON DESIGN: SHERWIN WILLIAMS FASTOP SL231SD1, COLOR: LIGHT GRAY

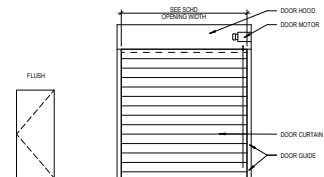
KEYED NOTES

- PRE-ENGINEERED METAL BUILDING COLUMN SYSTEM ON CONCRETE FOOTING. REFER TO PEMB AND STRUCT. DRAWINGS FOR DETAILS.
- 8" TRENCH DRAIN AT ALL OPENINGS. 800' DRAIN 2000' PERMANENT TRENCH LINEAR TRENCH DRAIN SYSTEM. NO PLUMBING CONNECTION FOR WATER. CATCHMENT AND AIR DRY ONLY. INSTALL MUST BE LEAK AND FLUSH WITH FINISHED FLOOR. PROVIDE 4 DRAIN AT BRING MAIN DOORS. PROVIDE 14 DRAIN AT OVERHEAD DOORS. ALL CENTERED ON EACH DOOR. TYP.
- 7" HIGH CONC. BLAST PROTECTION WALL. SEE STRUCT. DOCS FOR DETAILS.
- SHD STORAGE RACKS IN FUTURE BY CUSTOMER. REFER TO MECHANICAL DRAWINGS FOR DETAILS.
- SINGLE SKIN MTL PANEL ENCLOSURE W/ ROOF. SEE SECTIONS AND DETAILS.
- ELEC. EQUIPMENT. SEE ELEC. DOCS.
- CONC. FILLED MTL PIPE BOLLARD. SEE CHDZ DETAIL FOR LOCATION. PAINTED SAFETY YELLOW.

E1 FLOOR PLAN
3/16" = 1'-0"

DOOR SCHEDULE

REV	NUMBER	TYPE	DOOR				HARDWARE	FRAME					COMMENTS
			WIDTH	HEIGHT	THICK	MATL		TYPE	MATL	HEAD	DETAIL JAMB	SILL	
100A	F	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	
100B	CHD	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	
100C	CHD	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	
100D	CHD	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	
100E	F	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	
100F	F	E-E	8'-0"	8'-0"	1'-3/4"	RM	1	A	RM	SK1	SD-100	SD-1	

DOOR TYPE ELEVATIONS
1/4" = 1'-0"

Hardware Group No. 1 - EXTERIOR SINGLE DOORS

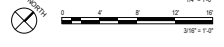
Provide each SGL door(s) with the following:

Qty	EA	Description	Catalog Number	Finish	Mfr
3	EA	HINGE	BB81 4.5" X 4.5" NRP 202	260	PBB
1	EA	PANIC HARDWARE	C202 88-LRHD	626	VONDUYRN
1	EA	SURFACE CLOSER (PUSH SIDE)	SC71 RWAPA 10	626	FALCON
1	EA	THRESHOLD	276	A	PEMCO
1	EA	DOOR SWEEP	276 PK	C	PEMCO
3	EA	SILENCER	PR84	GRY	KES
1	EA	W/5 HEAD SECTION	2891APK	AL	PEMCO
1	EA	W/5 JAMB	290APK	AL	PEMCO
1	EA	RANDROP	348A	AL	PEMCO
1	EA	ROCK PLATE	HP50 10 X 34 HBHE	320	MCK
1	EA	PRISMUS CORE	CO-200-MD-40	C23	EVEREST PRISMUS
1	EA	OPENER LOCK			SCHLAGE

Hardware Group No. 2 - OVERHEAD COLING DOORS

Provide each SGL door with the following:

Qty	EA	Description	Catalog Number	Finish	Mfr
1	EA	PADLOCK		260	SCHLAGE
1	EA	PRISMUS CORE		C23	EVEREST PRISMUS

DOOR FRAME ELEVATIONS
1/4" = 1'-0"

ISSUE FOR CONSTRUCTION

DOCUMENT HISTORY

NO.	DESCRIPTION	DATE

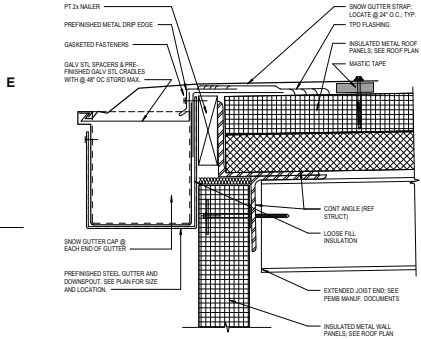
AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



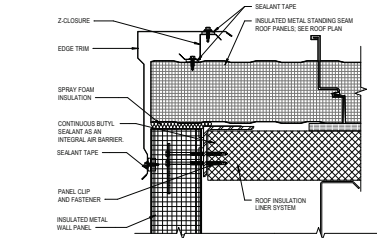
Reviewed by: KEN LOWERY
AK NO. 14640
Designed by: C. KOTRLIK
Project Number: C09729-001
Date: 05/08/2025

DETAILS

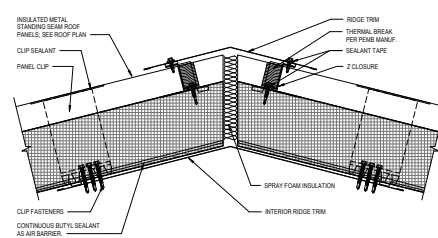
Revised by: **A-501**



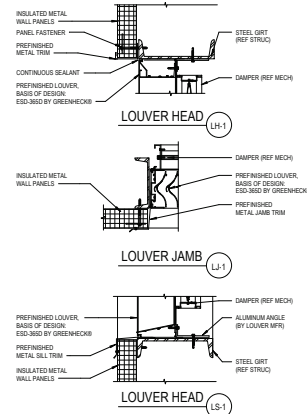
D1 ROOF GUTTER @ IMP WALL
3" x 1'-0"



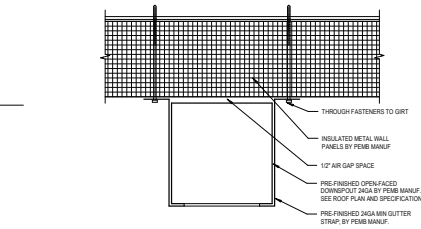
D2 ROOF RAKE EDGE AT IMP
3" x 1'-0"



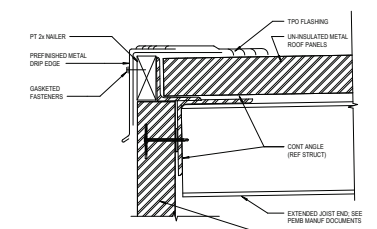
D4 PEMB IMP RIDGE
3" x 1'-0"



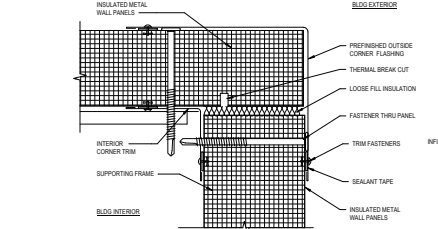
D5 LOUVER IN IMP
1 1/2" x 1'-0"



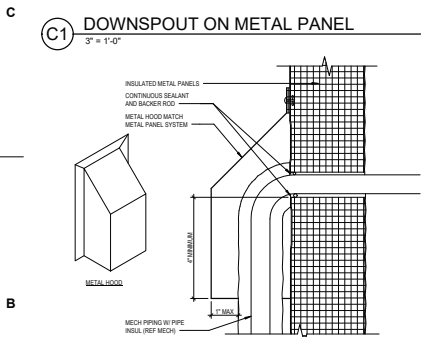
C1 DOWNSPOUT ON METAL PANEL
3" x 1'-0"



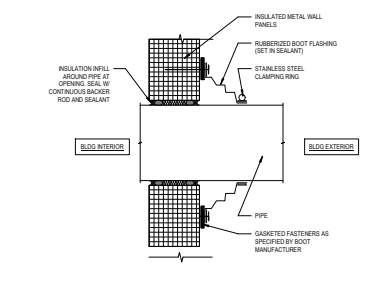
C2 ROOF EDGE @ MTL PANEL WALL
3" x 1'-0"



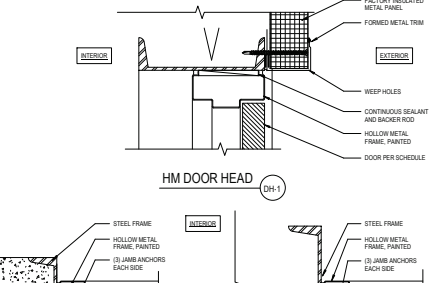
C4 IMP OUTSIDE CORNER
6" x 1'-0"



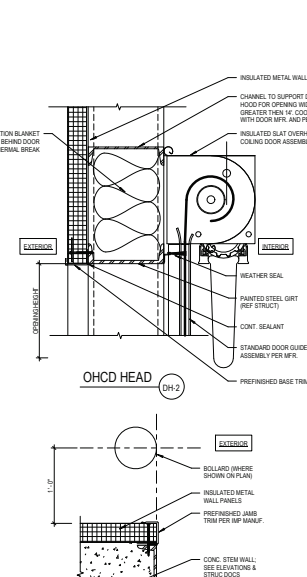
B1 SMALL PIPE PENETRATION
6" x 1'-0"



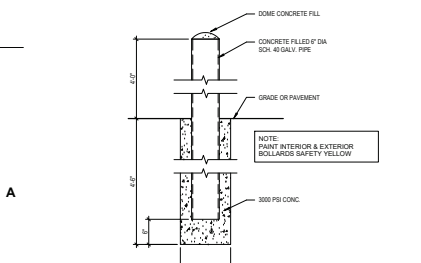
B2 IMP PIPE PENETRATION
3" x 1'-0"



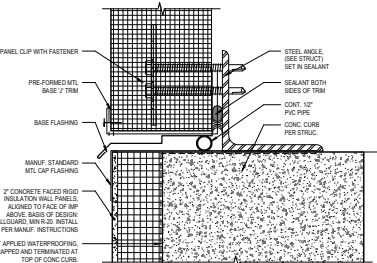
A4 DOOR IN CONC./IMP
3" x 1'-0"



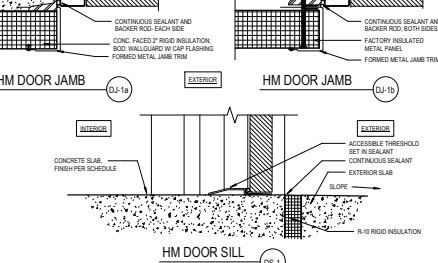
A5 OHC DOOR IMP DETAILS
1 1/2" x 1'-0"



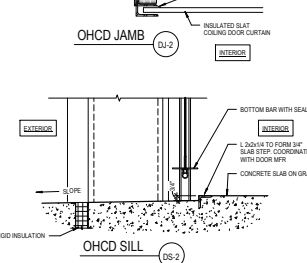
A1 PIPE BOLLARD 'PB'
1" x 1'-0"



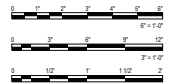
A2 IMP TO CURB DETAIL
6" x 1'-0"



A3 DOOR IN CONC./IMP
3" x 1'-0"



A4 DOOR IN CONC./IMP
3" x 1'-0"



STATEMENT OF WORK

CIVIL GENERAL NOTES

CIVIL GENERAL NOTES

1. COMPLY WITH APPLICABLE LOCAL, STATE

- [illegible]

SITE CLEARING

- [illegible]

EARTHWORK

1. THE PROJECT IS TECHNICAL, RESEARCH OR PROJECT OF INNOVATION. YES (N) NO (Y) 2025. THE BENCHMARK IS FOR SUBMITTING TO THE INVENTION PATENT OFFICE. THE PROJECT IS NOT FOR SUBMITTING TO THE INVENTION PATENT OFFICE. THE PROJECT IS FOR SUBMITTING TO THE INVENTION PATENT OFFICE.
2. COUNTY WITH APPLICABLE INDEMNIFICATION OF IPH IN A DESIGN MATERIAL CODE.
3. THE PROJECT IS NOT FOR SUBMITTING TO THE INVENTION PATENT OFFICE. THE PROJECT IS FOR SUBMITTING TO THE INVENTION PATENT OFFICE.
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SEEDING

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DRAINAGE

1. STOP WORK IMMEDIATELY UNTIL THE PROPOSED CORRECTIONS ARE COMPLETED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STOPPING WORK TO AVOID THE OCCURRENCE OF ITEMS THAT MAY BE DETECTED DURING CONSTRUCTION. ACCORDING TO THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND STRUCTURES.
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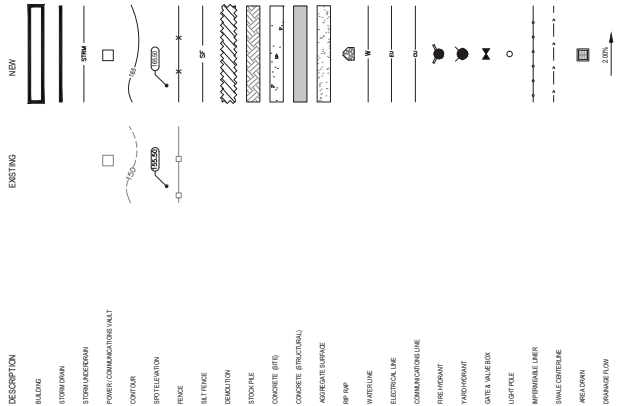
SURVEY

1. EXISTING SITE CONDITIONS SHOWN ARE BASED ON A TOPOGRAPHIC SURVEY BY LOUNSBURY & ASSOCIATES, INC. DATED 11-23-2025. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE INFORMATION SHOWN ON THE SURVEY PRIOR TO CONSTRUCTION.
- a. KEY POINT ELEVATIONS ARE BASED ON NAVD83 DATUM.

UTILITIES

1. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR POTABLE WATERWORKS AND PLUMBING SYSTEMS. INCLUDE MATERIALS, INSTALLATION AND TESTING.
2. COMPLY WITH STANDARDS OF AUTHORITIES HAVING JURISDICTION FOR THE PROTECTION OF SYSTEMS, INCLUDE MATERIALS, HOSE, THROATS, INSTALLATION AND TESTING.
3. COMPLY WITH THE USE OF BUILDING CODE FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES FOR MATERIALS, INSTALLATION, TESTS, AND FLUSHING.
4. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

LEGEND



ABBREVIATIONS

- ALASKA AEROSPACE CORPORATION
ADDITIVE ADDENDUM
ADJACENT
ALASKA DEPARTMENT OF TRANSPORTATION

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AK PE 112979
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A. LUNA
DRAWN BY
P. BRIONES

DATE _____

CIVIL GENERAL
NOTES, LEGEND &
ABBREVIATIONS

DRAWING NO.

6

5

4

3

1

1



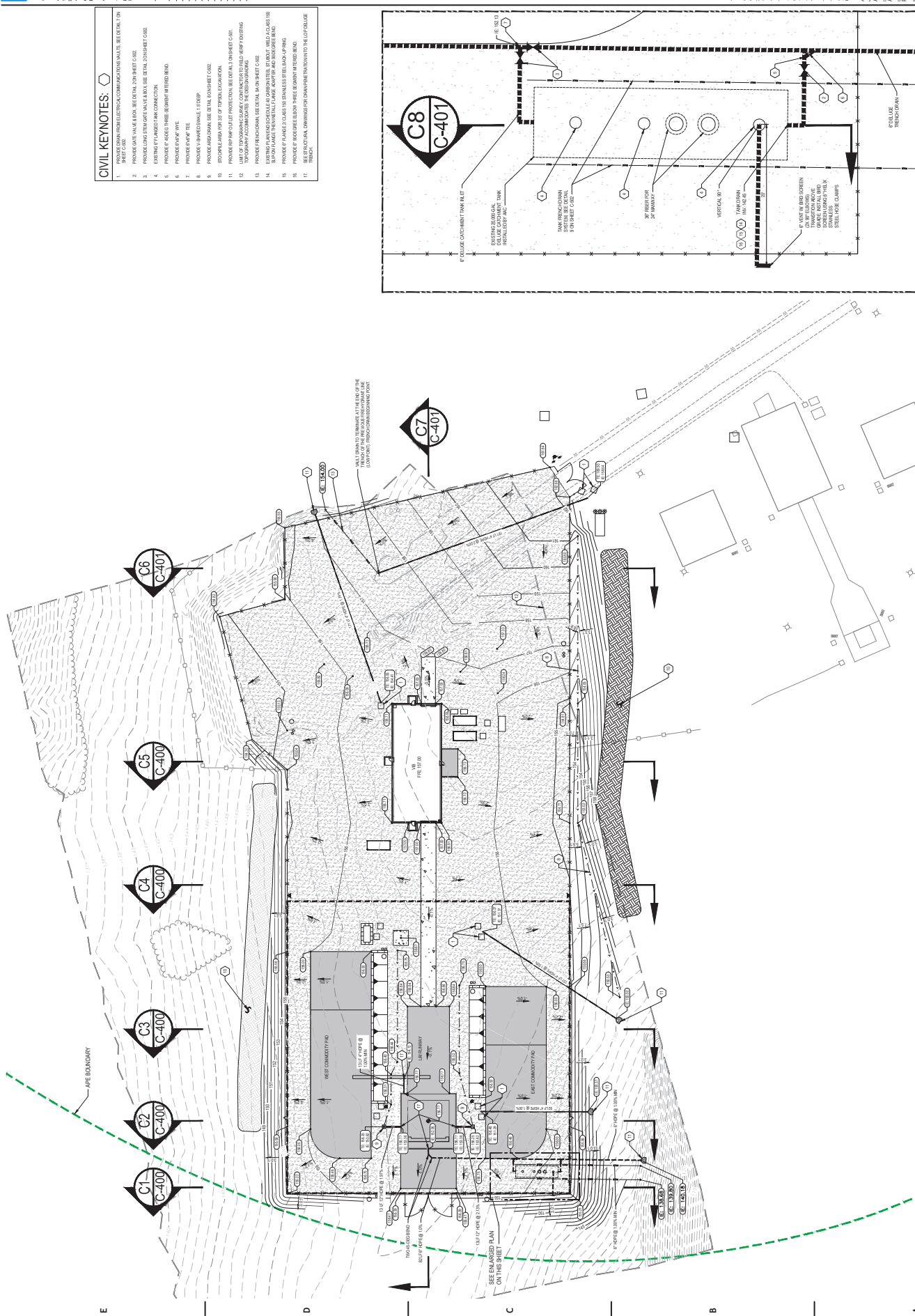
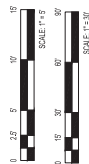
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PROJECT NUMBER

10.1007/978-1-4939-9966-1

GRADING & DRAINAGE PLAN

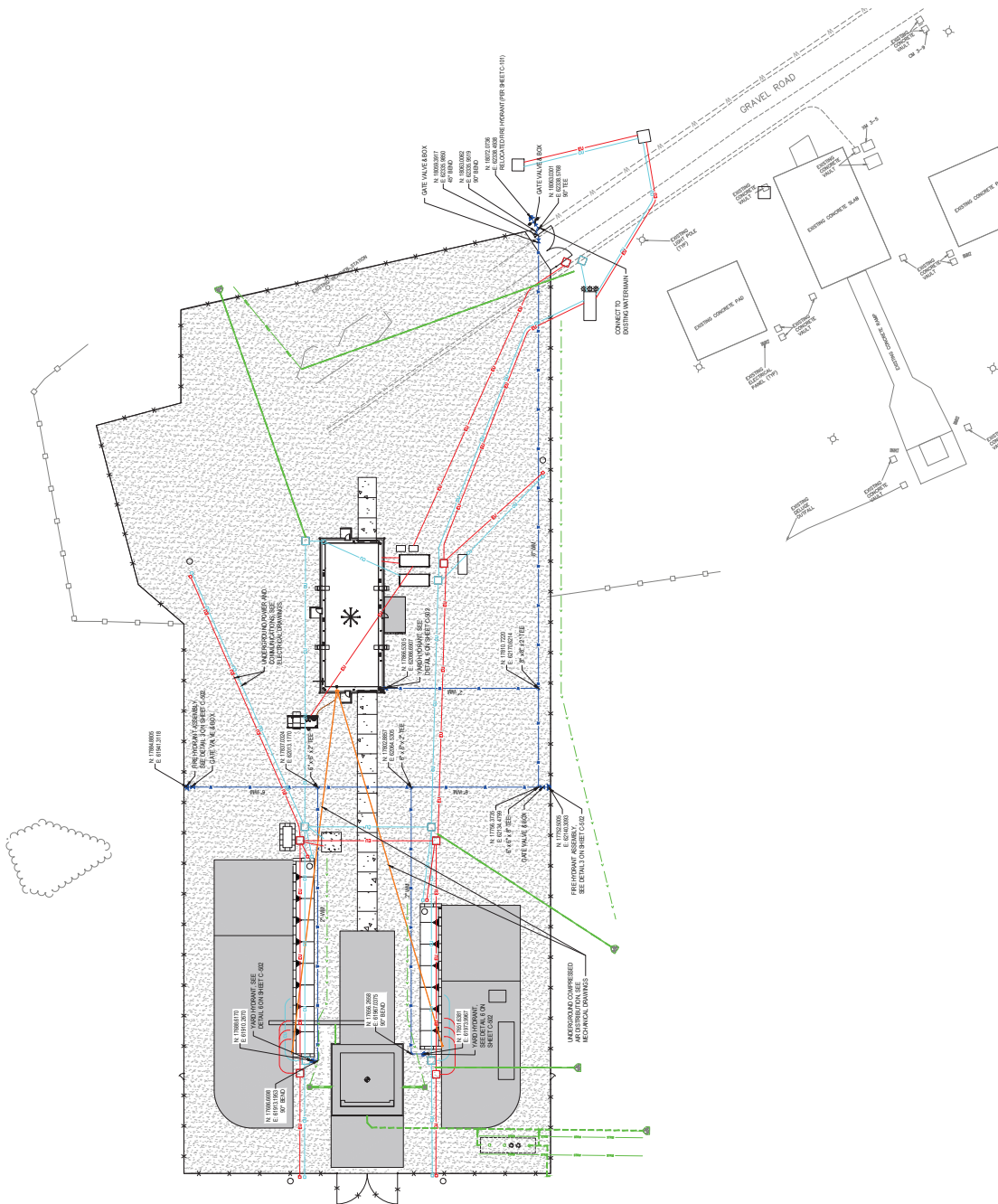
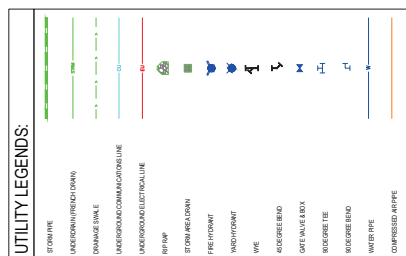
C-141

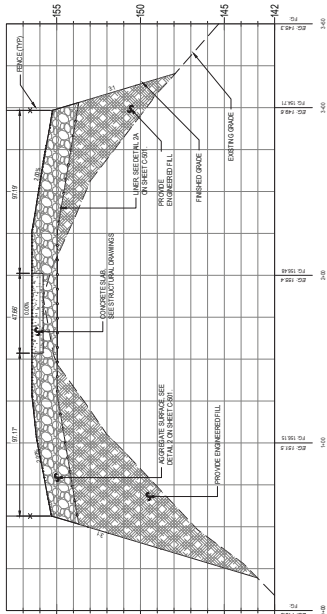


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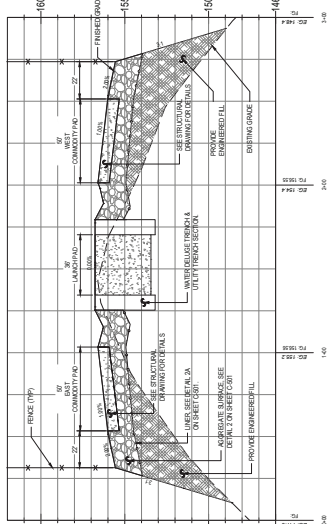
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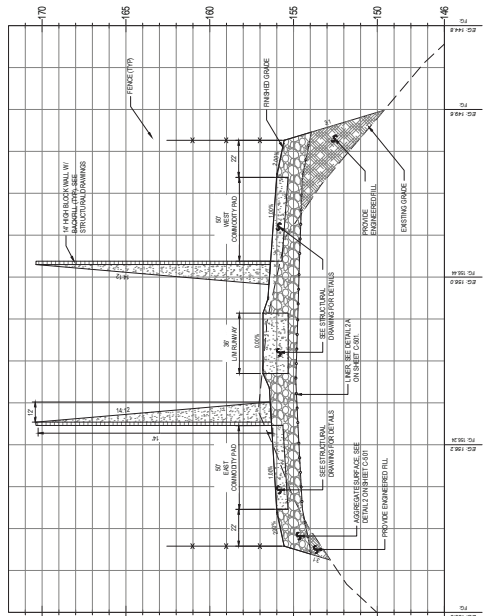




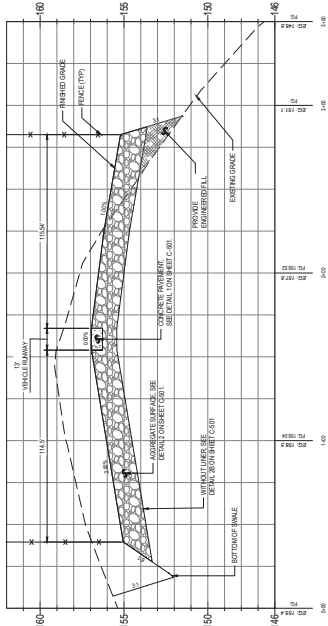
C1 CROSS SECTION
C-141 SCALE: 1"=30'H, 1"=3'V



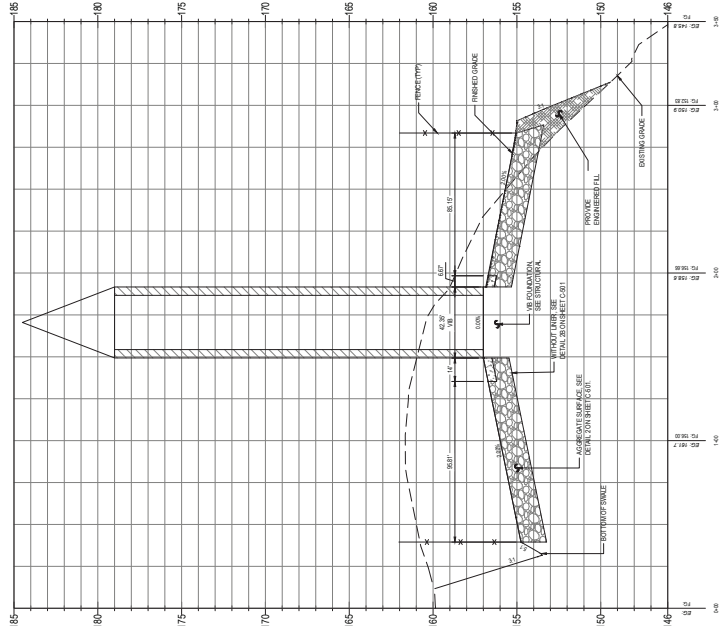
C-141 SCALE: 1"=30'H, 1"=3'V



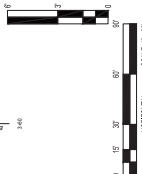
C3 L/M RUNWAY SECTION
C-141 SCALE: 1" = 30'H, 1" = 3'V

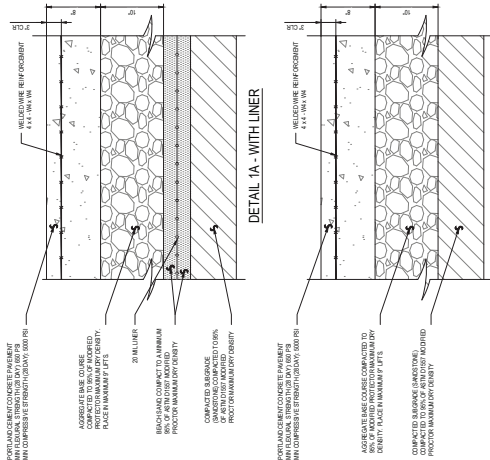


C4 VEHICLE RUNWAY SECTION
C-141 SCALE: 1"=30'H, 1"=3'V

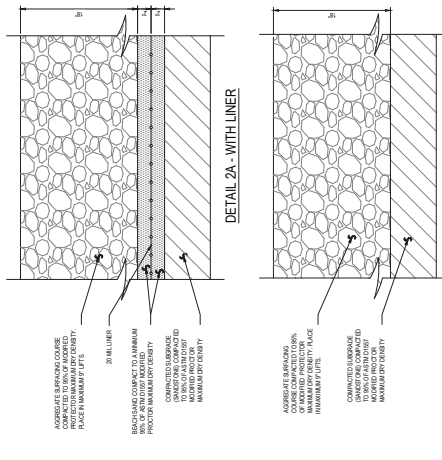


C-141 C5 VIB SECTION SCALE: 1" = 30' H, 1" = 3' V

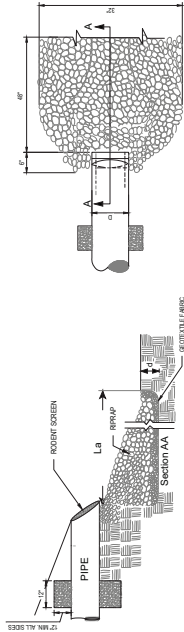




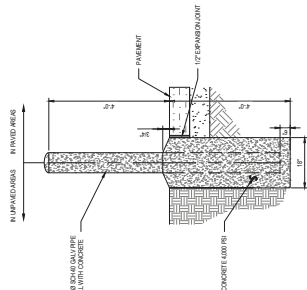
1 **CONCRETE PAVEMENT DETAILS**



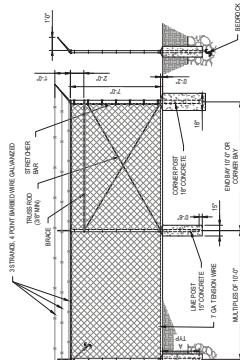
DETAIL 2B - WITHOUT LINER



PLAN	3 RIP RAP OUTLET PROTECTION DETAIL CPI 10/11/15 NOTES: 1. RPPAP 6₆ SHALL BE 12" 2. 6 SHALL BE MINIMUM 2" 3. RPPAP SHALL BE UNDERLAIN BY A GEOTEXTILE FABRIC MINIMUM 60% ON EQUIVALENT
------	--



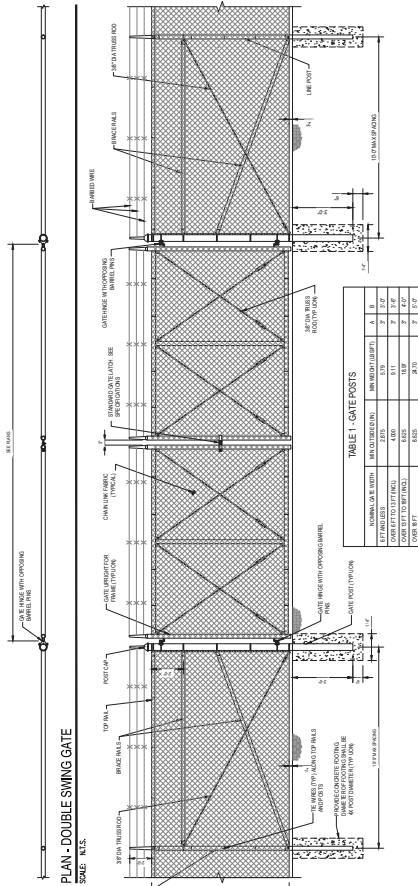
4 CONCRETE FILLED BOLLARD DETAIL



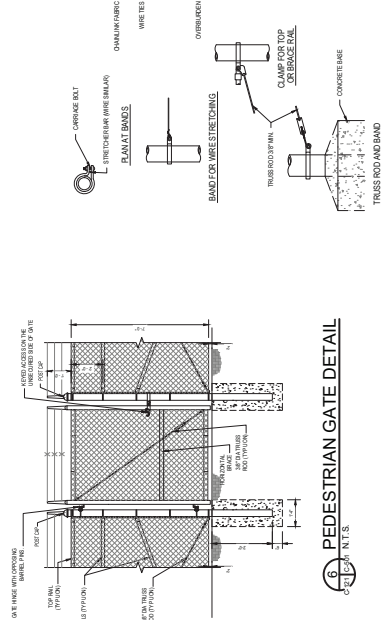
COMMENTS	MIN. GUSSET (IN)	MIN. WEIGHT (LB/FT)	A	B
LINE POSTS	2.375	3.66	3"	3/4"
END, TALL AND CORNER POSTS	2.875	6.79	3"	3/4"
END, TALL	1.600	2.27	-	-

CHAIN LINK FENCING NOTES

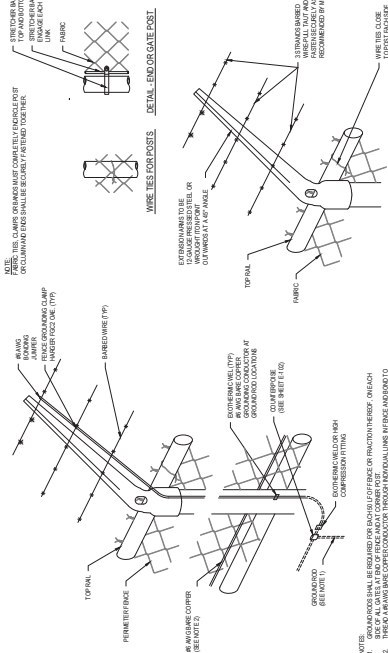
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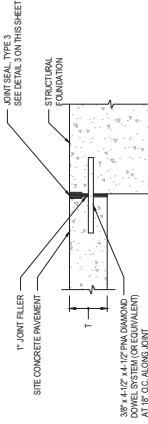
5 DOUBLE SWING GATE DETAIL



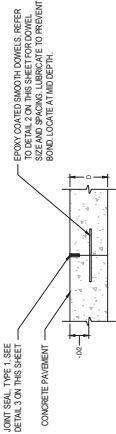
6 PEDESTRIAN GATE DETAIL



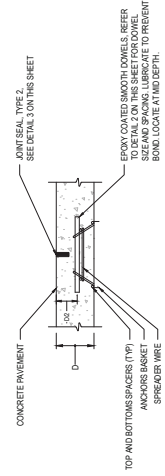
7 CHAIN LINK FENCING DETAILS



DOWELED EXPANSION JOINT (EDJ)



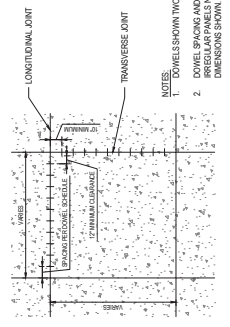
DOWELED CONSTRUCTION JOINT (D)



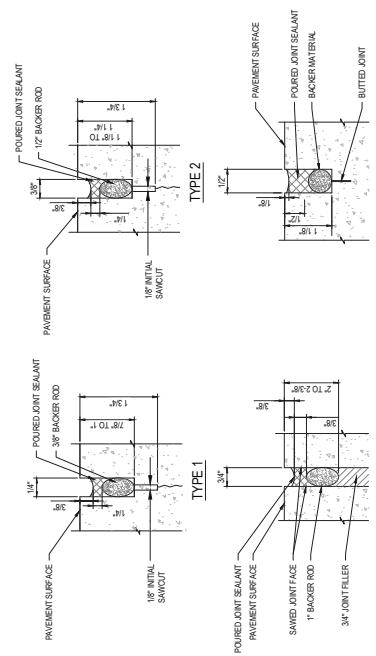
DOWELED CONTRACTION JOINT (C)

CONCRETE JOINTING DETAILS

DOWEL SCHEDULE			
SLAB THICKNESS (ft)	DIAMETER	LENGTH	SPACING
12" - 18"	3/4"	18"	12"
18" - 24"	1"	24"	12"
24" - 30"	1 1/4"	30"	12"



DOWEL DETAILS



JOINT SEAL DETAILS

TYPE 1

TYPE 2

TYPE 3

TYPE 4

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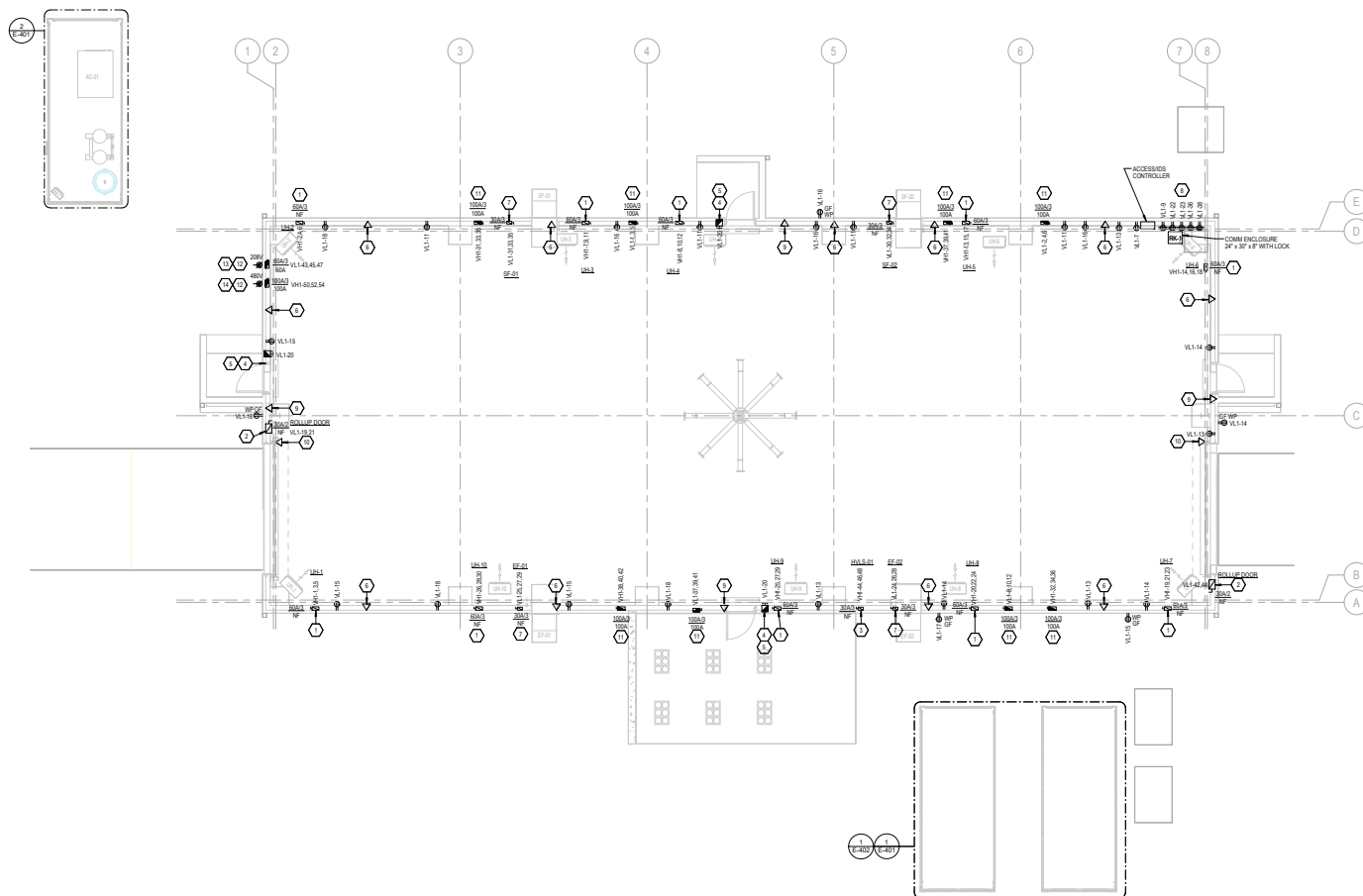
TITLE
ELECTRICAL
PLAN

034570 NC

E-101

1

2. HAZARDOUS AREA INSIDE VIB PER DETAIL 1 ON E-502. SOURCE OF FLAMMABLE VAPOR IS ON FLIGHT HARDWARE. PROVIDE APPROPRIATELY RATED ELECTRICAL EQUIPMENT, CONDUITS, SEAL-OFFS, ETC.
3. SEE TYPICAL CONDUIT MOUNTING DETAIL ON SHEET E-501, DETAIL 6.

[illegible]

1 VIB ELECTRICAL PLAN
3/16" = 1'-0"



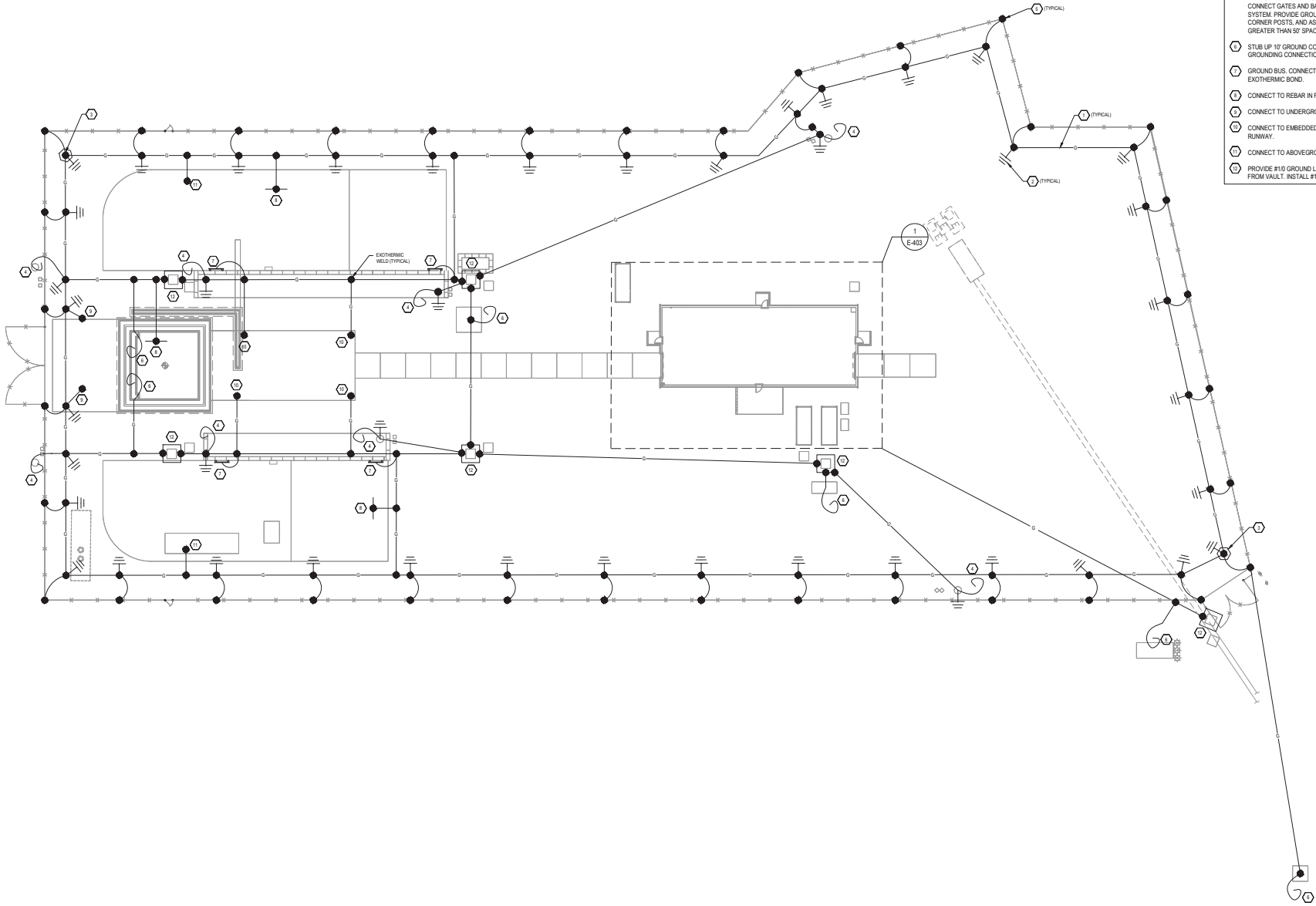
E

D

C

B

A



- KEYNOTES: ○
- 1 #10 AWG BARE STRANDED COPPER GROUNDING WIRE BURIED AT 30" BELOW GRADE.
 - 2 GROUND ROD, 10 FEET LONG BY 3/4" DIAMETER. SEE DETAIL 4 ON E-501.
 - 3 GROUND TEST WELL. SEE DETAIL 5 ON E-501.
 - 4 STUB UP GROUND CONDUCTOR FOR CONNECTION TO LIGHTNING PROTECTION.
 - 5 PROVIDE FENCE SYSTEM WITH #6 AWG BARE COPPER AROUND ENTIRE PERIMETER EXCEPT THROUGH GATE OPENINGS. LACE THROUGH OR ATTACH TO FENCE FABRIC AT 2' INTERVALS WITH WOOD RING CLIPS. CONNECT GATES AND BARBED WIRE TO GROUNDING SYSTEM. PROVIDE GROUND RODS AT GATE POSTS, CORNER POSTS, AND AS NECESSARY FOR NO GREATER THAN 50' SPACING.
 - 6 STUB UP 10' GROUND CONDUCTOR FOR EQUIPMENT GROUNDING CONNECTION.
 - 7 GROUND BUS. CONNECT TO COUNTERPOISE VIA EXOTHERMIC BOND.
 - 8 CONNECT TO REBAR IN FOUNDATION.
 - 9 CONNECT TO UNDERGROUND TANK.
 - 10 CONNECT TO EMBEDDED STEEL IN LAUNCH MOUNT RUNWAY.
 - 11 CONNECT TO ABOVEGROUND DELUGE TANK.
 - 12 PROVIDE #10 GROUND LOOP AROUND VAULT AT 30" FROM VAULT. INSTALL #10 PIGTAIL INTO VAULT.

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7/12

SITE GROUNDING

ISSUED TO:

E-122



GROUNDING

1/1/26



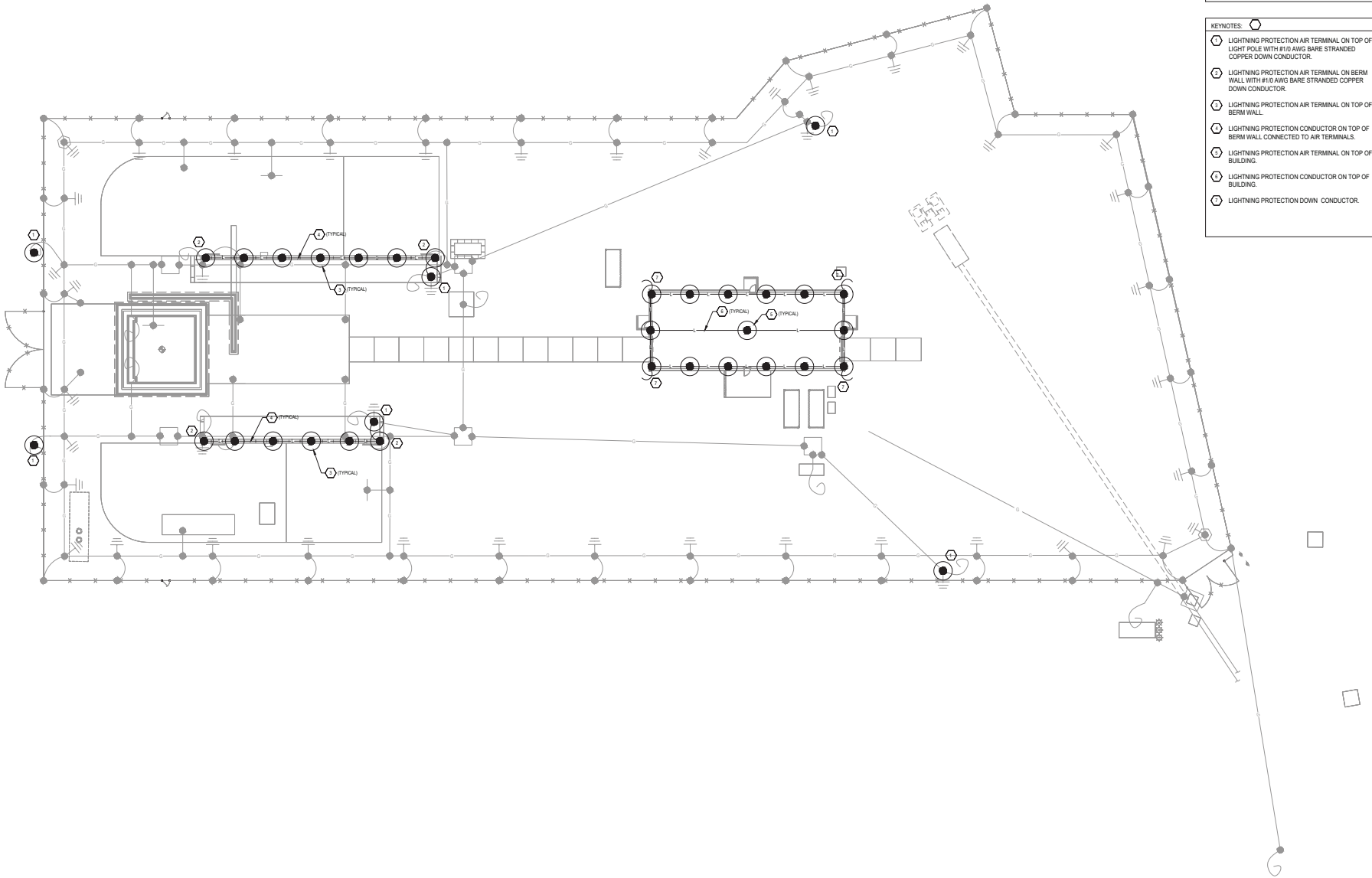
E

D

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GENERAL NOTES

1. PROVIDE CLASS 1 LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 750.

KEYNOTES:

- 1. LIGHTNING PROTECTION AIR TERMINAL ON TOP OF LIGHT POLE WITH #10 AWG BARE STRANDED COPPER DOWN CONDUCTOR.
- 2. LIGHTNING PROTECTION AIR TERMINAL ON BERM WALL WITH #10 AWG BARE STRANDED COPPER DOWN CONDUCTOR.
- 3. LIGHTNING PROTECTION AIR TERMINAL ON TOP OF BERM WALL.
- 4. LIGHTNING PROTECTION CONDUCTOR ON TOP OF BERM WALL CONNECTED TO AIR TERMINALS.
- 5. LIGHTNING PROTECTION AIR TERMINAL ON TOP OF BUILDING.
- 6. LIGHTNING PROTECTION CONDUCTOR ON TOP OF BUILDING.
- 7. LIGHTNING PROTECTION DOWN CONDUCTOR.

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AK 101052
CHECKED BY: S SCHILLER
DRAWN BY: S SCHILLER
PROJECT NUMBER: C09729.001.00
DATE: 05/08/26
TITLE: SITE LIGHTNING PROTECTION

DRAWING NO: E-123



DOCUMENT HISTORY

[illegible]

10

1 PROVIDE GENERATOR FEED PASS.

6. PROVIDE GENERATOR FEED PASS - THROUGH.
7. PROVIDE LIGHT FIXTURE MOUNTED TO CEILING. REFER TO LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPE.
8. PROVIDE BASEBOARD HEATER, 6 FEET LONG, 1500-2000 WATTS.
9. PROVIDE DISCONNECT SWITCH FOR UNIT HEATER.
10. PROVIDE DISCONNECT SWITCH FOR AIR COMPRESSOR.
11. PROVIDE DISCONNECT SWITCH FOR DRYER.
12. PROVIDE HUBBELL 250V, 60A, 4 POLE, 5 WIRE, P/N & SER# CONNECTOR PLUG MODEL HESL0509. PROVIDE 5-CONDUCTOR ALUMINUM CABLE TYPE W-CORD CONNECTED TO PANEL A11 AND LONG ENOUGH TO REACH RECEPTACLE ON 2ND EXTERIOR WALL.
13. PROVIDE HUBBELL 480V, 100A, 4 POLE, 5 WIRE, P/N & SER# CONNECTOR PLUG MODEL HESL0509. PROVIDE 5-CONDUCTOR OR 4-WIRE CABLE TYPE W-CORD CONNECTED TO PANEL A11 AND LONG ENOUGH TO REACH RECEPTACLE ON 2ND EXTERIOR WALL.
14. COORDINATE ROUTING WITH PANEL LOCATION: SEAL PENETRATION THROUGH MECHANICAL CONEX EXTERIOR WALL.
15. PROVIDE DISCONNECT SWITCH FOR EXHAUST FAN.

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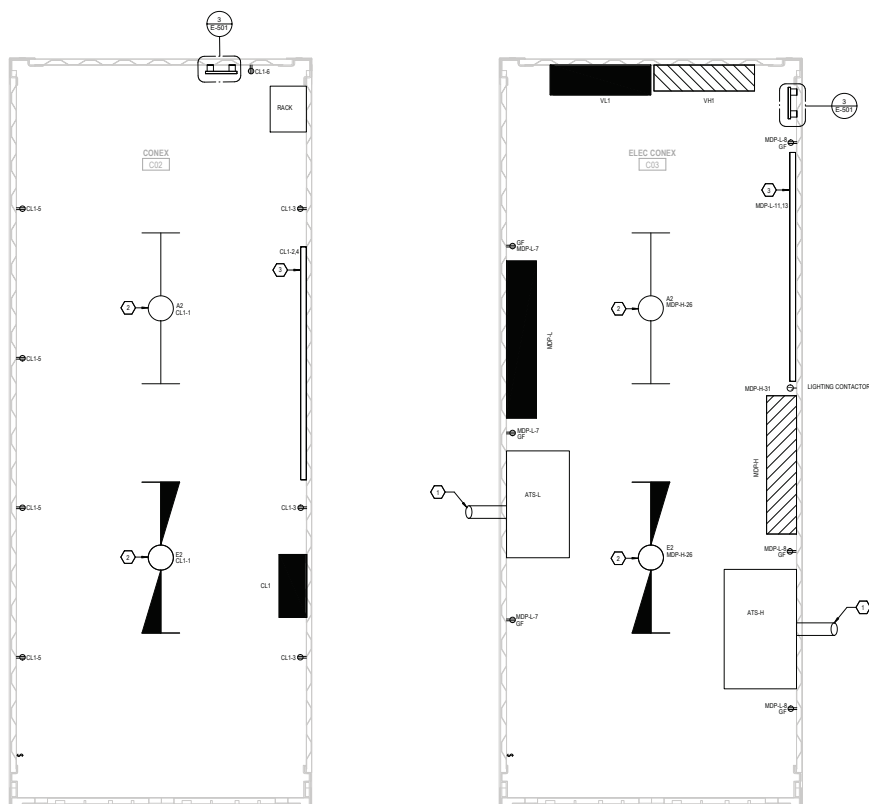
ENL

E1 E1

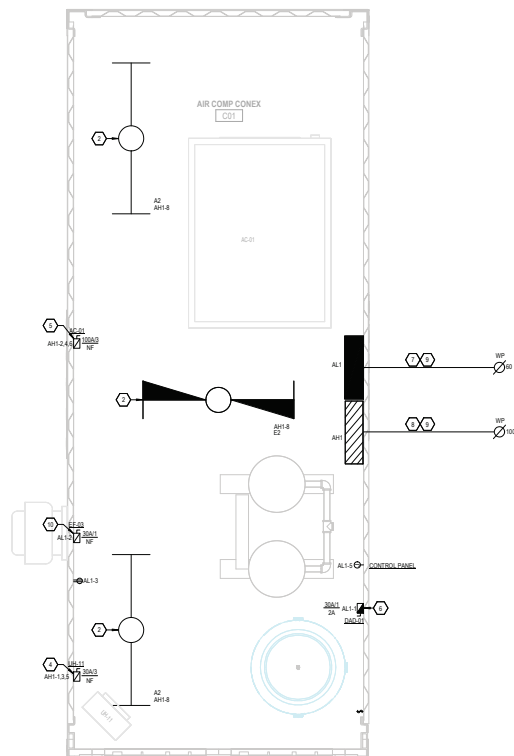
ELECTRICAL
PLANS

034570 NO

E-401

[illegible]

1 ENLARGED CONEX ELECTRICAL PLANS
3/4" = 1'-0"



2 ENLARGED MECH CONEX ELECTRICAL PLAN
3/4" = 1'-0"



- 1 #10 AWG BARE STRANDED COPPER GROUNDING WIRE BURIED AT 30" BELOW GRADE.
- 2 CONNECT TO REBAR IN FOUNDATION.
- 3 STUB UP GROUND CONDUCTOR FOR CONNECTION TO LIGHTNING PROTECTION.
- 4 STUB UP 12" GROUND CONDUCTOR FOR EQUIPMENT GROUNDING CONNECTION.
- 5 GROUND TEST WELL.
- 6 GROUND BUS.
- 7 PROVIDE #10 AWG COPPER GROUND LOOP AROUND TRANSFORMER VAULT 36" FROM VAULT. INSTALL #10 AWG PITIAL INTO VAULT.
- 8 PROVIDE CONNECTION TO ATS. COORDINATE LOCATION IN FIELD.
- 9 BOND GROUNDING LOOP TO STRUCTURAL STEEL.
- 10 EXOTHERMIC WELD.

AREA 3 PAD D



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HAZARDOUS
AREAS[illegible]

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E-502

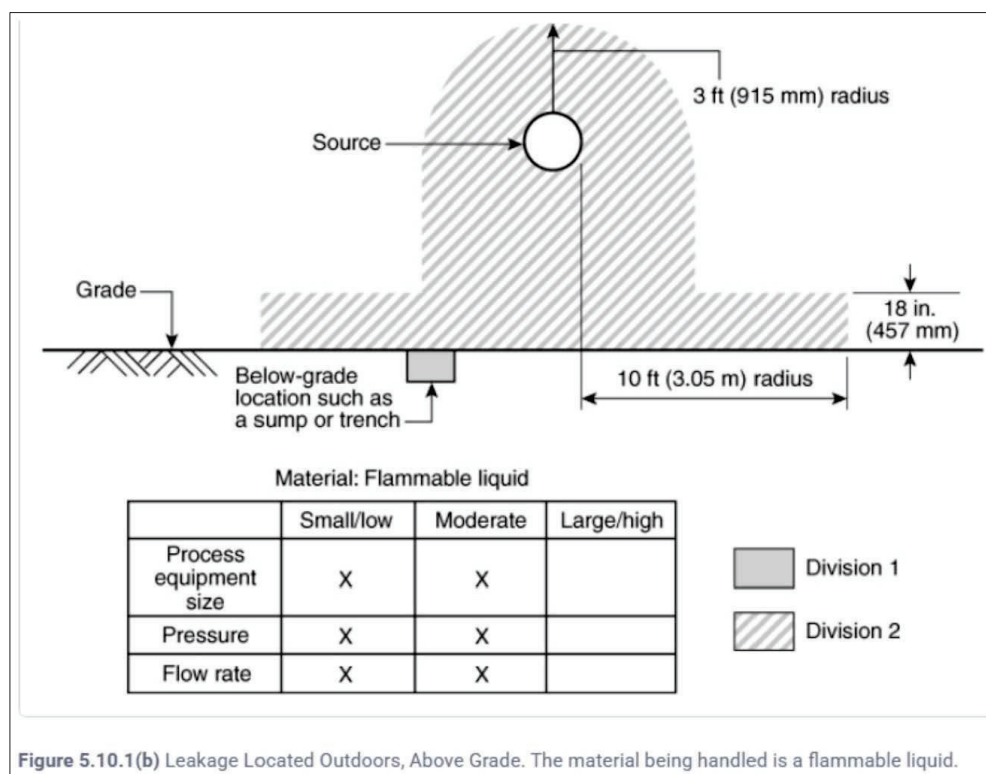


Figure 5.10.1(b) Leakage Located Outdoors, Above Grade. The material being handled is a flammable liquid.

1 HAZARDOUS AREAS INSIDE THE VIB & NEAR OUTDOOR FUEL TANKS



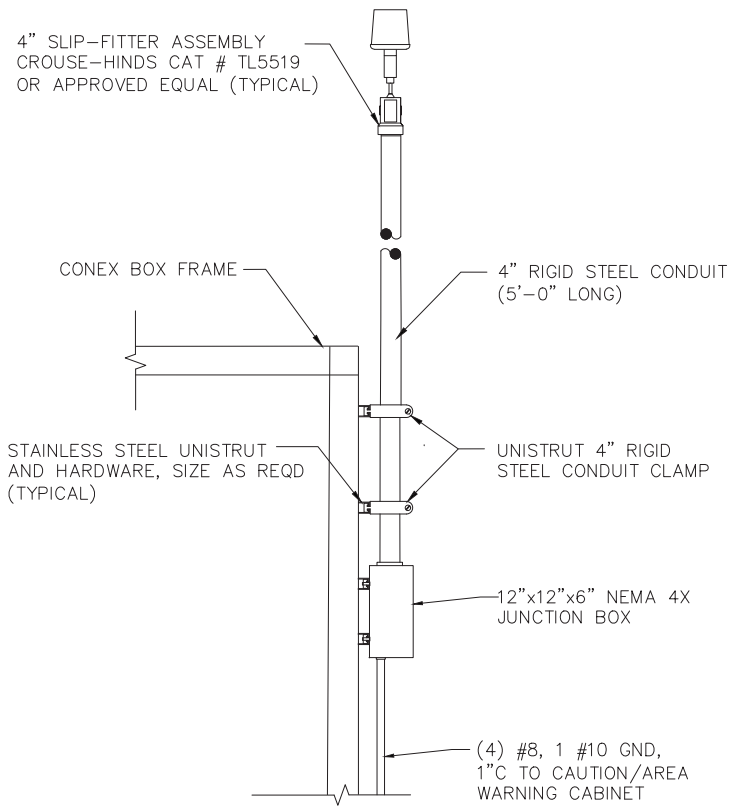
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AREA WARNING LIGHTS

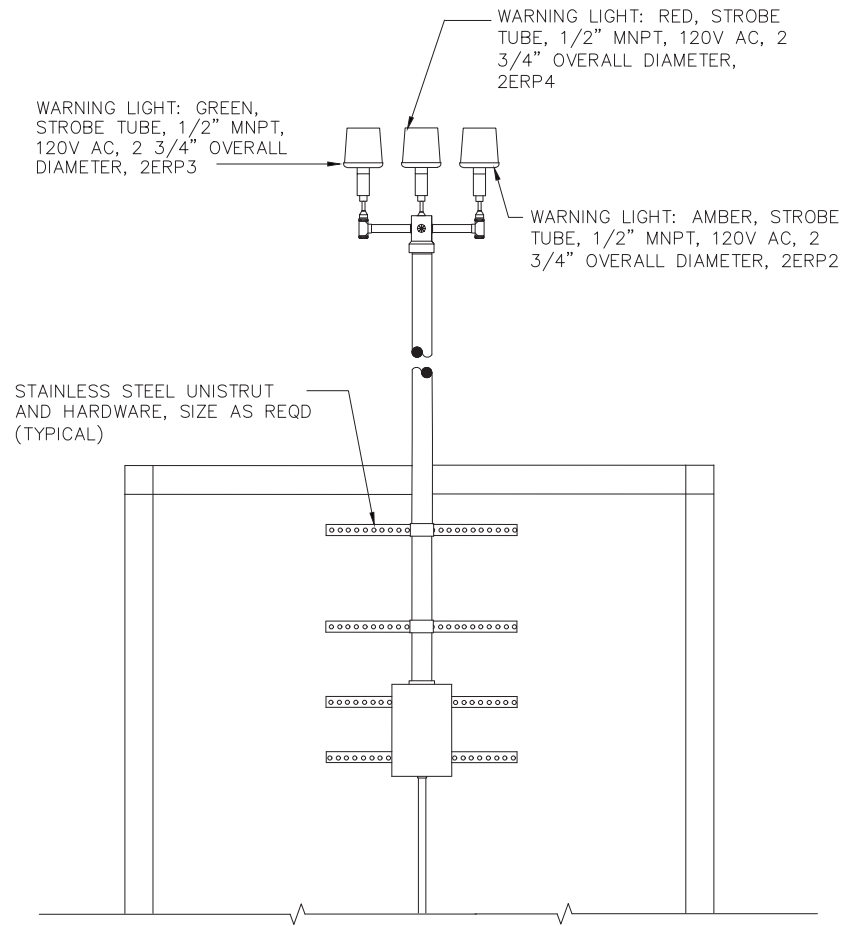
Drawing No.

E-503



CONEX SIDE VIEW

NOTE: CONFIRM LOCATION WITH OWNER PRIOR TO INSTALLATION.



CONEX FRONT VIEW

1 CAUTION / AREA WARNING LIGHTS
NTS

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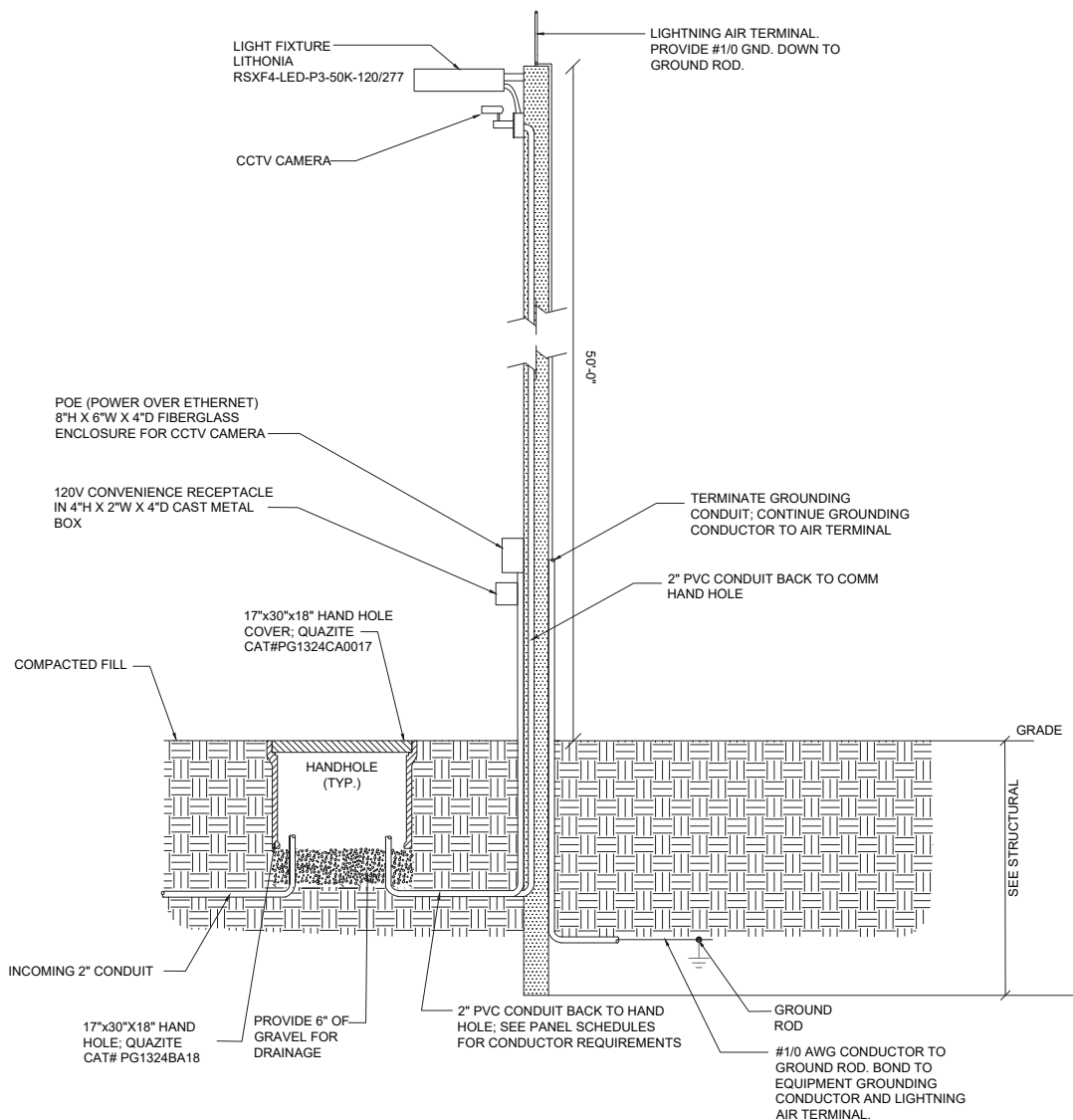


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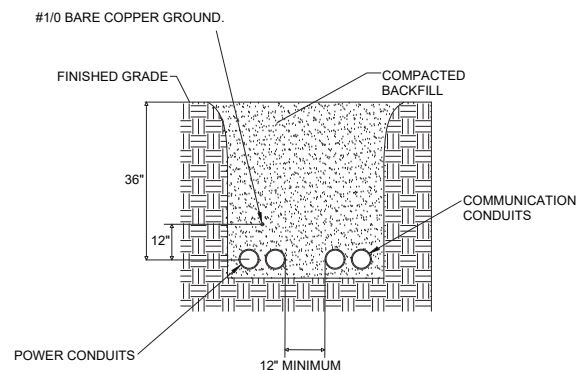
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ELECTRICAL DETAILS

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1 TYPICAL LIGHT POLE DETAIL
NTS



2 TYPICAL TRENCH DETAIL
NTS

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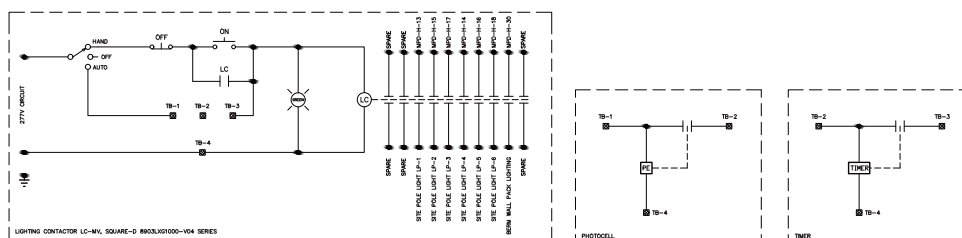
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ELECTRICAL DETAILS

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E-505



1 SITE LIGHTING CONTROL DIAGRAM

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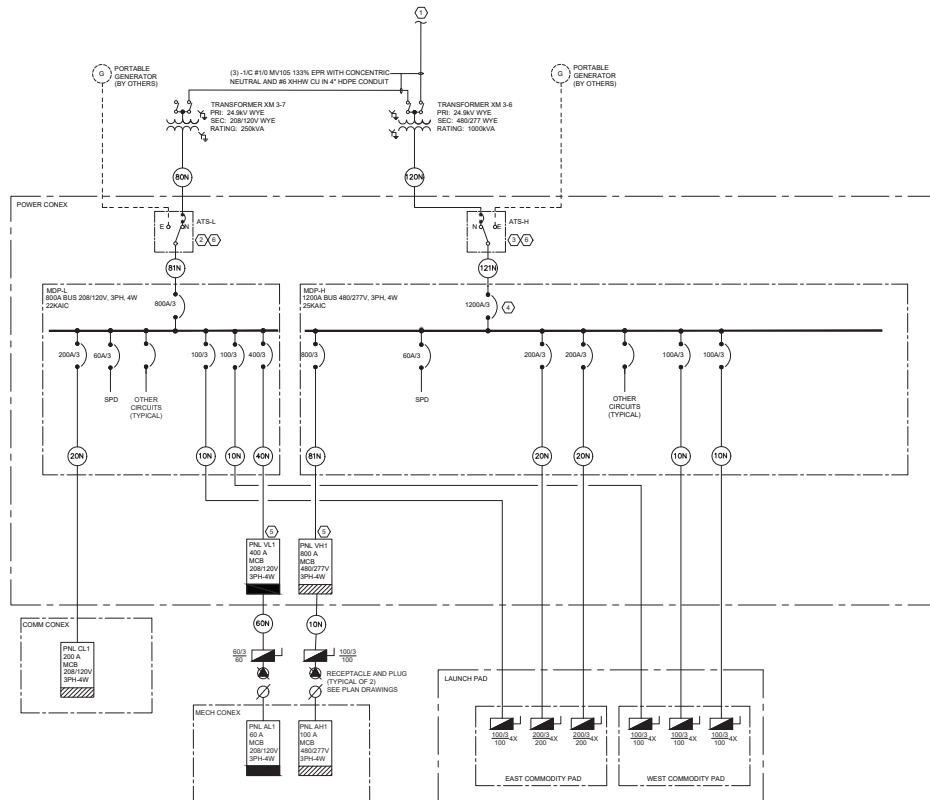
DATE _____

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TITLE

ONE-LINE DIAGRAM

COATING NO.

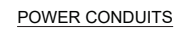
E-601



FEEDER SCHEDULE

FEEDER SCHEDULE					
FEEDER MARK	NO. OF SETS	CONDUCTOR SIZES (AWG OR KCMIL)			
		PHASE	NEUTRAL	GROUND	CONDUIT
120N	3	3#600	1#600	----	(3)4"
121N	3	3#600	1#600	#3/0	(3)4"
80N	2	3#500	1#500	----	(2)4"
81N	2	3#500	1#500	#1/0	(2)4"
40N	1	3#600	1#600	1#2	(1)4"
20N	1	3#3/0	1#3/0	1#6	(1)2"
10N	1	3#1	1#1	1#8	(1)2"
60N	1	3#6	1#6	1#10	(1)2"

1 ONE-LINE DIAGRAM



A

Notes:
1. PROVIDE SURGE PROTECTION DEVICE FOR PANEL

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[illegible]

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PROJECT NUMBER
C09729.001.00

DATE
05/08/26
TITLE
**PANEL
SCHEDULES**

DRAWING NO.
E-702

Panel: AL1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Design Selection:				Voltage: 208Y120V				Minimum A.C. Rating: 22 KAC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Mains Rating: 60 A				Phases: 3				Location: AIR CONNEX CG1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Type: MCB				Wires: 4				Served From: VL1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				Mounting: Surface				Notifications:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Trips	Notes	Amperes	Poles	Description	Wire	Neut	Grnd	Cond	No.	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX

Panel: AH1																		
Design Selection:							Voltage: 480Y/277V							Minimum A.I.C. Rating: 25 KAIC				
Main Breaker: Type: MCB							Phases: 3							Location: AIR COMP CONEX C01				
Trip: 100A							Wires: 4							Served From: VHT				
Taps: 308							Mounting: SURFACE							Modifications:				
Node	Tripp Amps	Poles	Description	Wire	Neut	Grd	Cond. No.	A	B	C	No.	Cond.	Grd	Neut	Wire	Description	Poles	Tripp Amps
30 A	3	1U-11		(3) #10	--	#10	34"	1	1.00 kVA	17.23	2	--	--	--			3	100 A
20 A	1	1 SPARE		--	--	--	5	1	1.00 kVA	17.23	3	--	--	--			4	20 A
20 A	1	1 SPARE		--	--	--	5	1	0.00 kVA	0.07 kVA	1	0.00 kVA	17.23	10	8	3/4"	#10	#10
20 A	1	1 SPARE ONLY		--	--	--	11	0.00 kVA	0.00 kVA	0.00 kVA	12	--	--	--			1	20 A
20 A	1	1 SPARE ONLY		--	--	--	15	--	--	--	16	--	--	--			1	20 A
20 A	1	1 SPARE ONLY		--	--	--	17	--	--	--	18	--	--	--			1	20 A
20 A	1	1 SPARE ONLY		--	--	--	19	--	--	--	20	--	--	--			1	20 A
20 A	1	1 SPARE ONLY		--	--	--	21	--	--	--	22	--	--	--			1	20 A
20 A	1	1 SPARE ONLY		--	--	--	23	--	--	--	24	--	--	--			1	20 A
Total:								18.31 kVA	18.22 kVA	18.22 kVA								
Load Classification								Connected Load	Estimated Factor	Estimated Load	Load Summary							
Heating								3.00 kVA	100.00%	3.00 kVA	Total Connected Load							
Lighting								0.07 kVA	100.00%	0.07 kVA	0.00 kVA							
Motor								13.20 kVA	100.00%	13.20 kVA	Estimated Demand Load							
											20% Future Demand Allowance							
											Total Estimated Demand Load							
											18.31 kVA							
											Total Estimated Demand Current							
											82 A							
Notes:																		

[illegible]

1 HVAC FLOOR PLAN

1. FOR LOUVER AND ACCESS PANEL OPENINGS, REFER TO ARCHITECTURAL DETAILS FOR IMP PENETRATIONS.

- 1 38" x 24" EXHAUST DUCT, DIRECT CONNECTED TO COMPRESSOR AIR OUTLET.
- 2 THERMOSTATICALLY CONTROLLED RECIRCULATION LOUVER / DAMPER.
- 3 PROVIDE ACCESS DOOR TO COMPRESSOR MAINTENANCE.
- 4 UNIT HEATER UH-11 SHALL BE MOUNTED WITH BOTTOM OF HEATER 5'-0" AFF.

DOCUMENT HISTORY

[illegible]

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



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ARCHIVER OF RECORD
DANIEL QUINONES
AK PE 245438
DESIGNED BY
D. QUINONES
DRAWN BY
S. NASH
PROJECT NUMBER
C09729.001

DATE
05/08/2026

TITLE
MECHANICAL
ENLARGED
PLANS

DRAWING NO.

M-401



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ISSUE FOR CONSTRUCTION

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ARCHIVER OF RECORD
DANIEL QUINONES
AK PE 245438
DESIGNED BY
D. QUINONES
DRAWN BY
S. NASH
PROJECT NUMBER
C09729.001

05/08/2026

MECHANICAL SCHEDULES

DRAWING NO.

M-601

LOUVER SCHEDULE

MARK	ASSOCIATED EQUIPMENT	MANUFACTURER	MODEL	TYPE	CFM	FREE AREA (FT ²)	FREE AREA (FT ² /MIN)	ESP (IN. W.C.)	HEIGHT (IN.)	WIDTH (IN.)	DEPTH (IN.)	NOTES
L-1	AC-01	GREENHECK	ESD-3650	INTAKE	3,200	5.1	600	0.03	30	48	5	ALL
L-2	AC-01	GREENHECK	ESD-3650	EXHAUST	3,200	5.1	750	0.04	30	48	3	ALL

NOTES:

1. PROVIDE S.S. BIRDSCREEN AND INSECT SCREEN.
2. LOUVER TO BE AMCA 540 AND 550 RATED WITH DAMPER.
3. PROVIDE 2-4 MIL DFT OF BLACK ANODIZED ALUMINUM COATING.
4. PROVIDE WITH ACTUATED DAMPER.

FAN SCHEDULE

MARK	MANUFACTURER/MODEL NO	TYPE	SERVICE	DRIVE	SUPPLY FAN		HP	ELECTRICAL		FLA	REMARKS
					SUPPLY FAN CAP	ESP (N.WC)		VOL	PH		
EF-01	GREENHECK BAR-24-00-010	NLINE	EXHAUST	BELT	2000	0.25	15	208	3	2.4	12.5/6.8
EF-02	GREENHECK CLQ-0-0	NLINE	EXHAUST	BELT	250	0.25	15	208	3	2.4	12.5/6.8
EF-03	GREENHECK CLQ-0-0	WALL	EXHAUST	DRIVE	250	0.25	130	115	1	1	12.5/6.8
EF-04	GREENHECK BAR-24-00-010	NLINE	SUPPLY	BELT	2000	0.25	15	208	3	2.4	12.5/6.8
EF-05	GREENHECK BAR-24-00-010	NLINE	SUPPLY	BELT	2000	0.25	15	208	3	2.4	12.5/6.8
HLS-01	BAS 12 POWER/OL	H.VLS	CURP	DRIVE	108721	-	-	480	3	30.0	1.5.9

GENERAL NOTES:

1. EXHAUST FAN SHALL OPERATE THROUGH THE LINE VOLTAGE THERMOSTAT. REFER TO CONTROL DIAGRAM AND SEQUENCE OF OPERATIONS.
2. PROVIDE GRAVITY BACKDRAFT DAMPER.
3. PROVIDE BIRDSCREEN, DISCONNECT SWITCH
4. PROVIDE 90 DEGREE HOODS.
5. 4 FT EXTENSION TUBE
6. PROVIDE ACTUATED DAMPER.
7. PROVIDE LOUVER.
8. PROVIDE MOTOR STARTER.
9. PROVIDE VFD.

ELECTRIC UNIT HEATER SCHEDULE

MARK	MFG.	SERVICE	MODEL	CFM	MOUNTING HEIGHT	KW	VOLTS/PHAS E	REMARKS
UH-01, UH-02, UH-03, UH-04, UH-05, UH-06, UH-07, UH-08, UH-09, UH-10	MODINE	VIB	REZVOR	530	8 FT	20.0	480/3	1, 2
UH-11	MODINE	AC-01 CONEX	REZVOR	530	8 FT	3.0	480/3	1, 2

GENERAL NOTES:

1. PROVIDE WITH UNIT HEATING ONLY THERMOSTAT MOUNTED 2'-0" BELOW UNIT ON CONDUIT. SET TO 65F.
2.. PROVIDE FRONT STAMPED INLET AND OUTLET

ELECTRICAL COORDINATION

ALL 208/480 VOLT MECHANICAL EQUIPMENT ("DISCRETE UNITS" AND "PACKAGED SYSTEMS") SHALL BE PROVIDED COMPLETE WITH ELECTRICAL FEATURES AND COMPONENTS, ALL FULLY COMPATIBLE, INTEGRATED, AND (TO THE EXTENT POSSIBLE) PREWIRED TO MEET THE FOLLOWING CRITERIA:

1. SINGLE POINT ELECTRICAL CONNECTION (UNLESS NOT AVAILABLE AS A STANDARD PRODUCT).
2. INCOMING POWER LOCKABLE DISCONNECT FUSED SWITCH COMPLETE WITH CURRENT LIMITING FUSES, OR LOCKABLE CIRCUIT BREAKER, UNO.
3. NEMA RATED COMBINATION STARTER(S), VARIABLE SPEED DRIVE(S), CONTROLLER(S), CONTROL, TRANSFORMER(S), OVERLOAD ELEMENTS, AND CONTROLS.
4. NEMA ENCLLOSURES, UNO; NEMA 1 INDORS; NEMA 3R OUTDOORS.
5. ALL DEVICES AND FUSES DESCRIBED HEREIN WILL BE FURNISHED IN AN APPROVED COMMON ENCLOSURE, WHERE APPROPRIATE.
6. ALL ELECTRICAL EQUIPMENT SHALL MEET THE MINIMUM SCSC (SHORT CIRCUIT CURRENT RATING), INTERRUPTING CAPACITY AND MINIMUM WITHSTAND RATING AS LISTED IN THE TABLE BELOW.

UNIT INCOMING CIRCUIT BREAKER OR FUSED SWITCH REQUIREMENTS

NOMINAL VOLTAGE AND PHASE	MAX. NOMINAL CURRENT RATING	MAX. EQUIPMENT POWER RATING (kW / KVA)	MIN. SCOR INTERRUPTING CAPACITY (kAIC - Kilo AMPERE INTERRUPTING CAPACITY)	MIN. WITHSTAND RATING
220V, 1 PHASE	30 A	5 HP / 5 KVA	10 kAIC	10 kA
220V, 3 PHASE	60 A	20 HP / 20 KVA	25 kAIC	20 kA
480V, 3 PHASE	20 A	15 HP / 15 KVA	25 kAIC	10 kA
480V, 3 PHASE	40 A	40 HP / 40 KVA	25 kAIC	25 kA
480V, 3 PHASE	60 A	40 HP / 40 KVA	65 kAIC	25 kA
480V, 3 PHASE	ABOVE 60 A	ABOVE 40 HP / 40 KVA	100 kAIC	100 kA

[illegible]

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
	COMPRESSED AIR PIPING
	COLD WATER PIPING
	POURED COLD WATER PIPING
	110° HOT WATER PIPING
	HOT WATER CIRCULATING PIPING
	NATURAL GAS PIPING
	SANITARY DRAINAGE PIPING (ABOVE SLAB)
	SANITARY DRAINAGE PIPING (UNDERGROUND)
	STORM LEADER - PRIMARY
	STORM LEADER OR LEADER - SECONDARY
	STORM PIPING (UNDERGROUND)
	VENT PIPING
	CONDENSATE PIPING
	CONDENSATE PIPING (UNDERGROUND)
	GREASE PIPING
	SUB-SOIL DRAIN PIPING
	INDUSTRIAL WASTE PIPING
	PUMPED INDUSTRIAL WASTE PIPING
	PROCESS WATER PIPING
	CLEAN OUT VACUUM PIPING
	HOLD DOWN VACUUM PIPING
	GATE VALVE
	BALL VALVE
	CIRCUIT BREAKER VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	RELIEF VALVE
	THERMOSTATIC MIXING VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	COMBINATION BALANCING/SHUTOFF VALVE
	RELIEF VALVE
	FLOW MEASUREMENT STATION
	V-TYPE STRAINER
	PLUG VALVE
	CLEANOUTS
	PIPE END CAP
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE TURNING DOWN (TEE)
	PIPING TEE
	ROLL DOWN
	P-TRAP
	FLOW ARROW
	HOSE BIBB / WALL HYDRANT
	WATER HAMMER ARRESTER & SIZE
	PSI-T*
	THERMOMETER
	PRESSURE GAUGE
	CIRCULATING PUMP

GENERAL LEGEND	
SYMBOL	DESCRIPTION
	PUMPING RIVER DESIGNATION
A =	RIVER IDENTIFYING SYSTEM TYPE
1 =	RIVER IDENTIFYING SYSTEM NUMBER
	SECTION SYMBOL
A =	IDENTIFYING LETTER
B =	SHEET WHERE SECTION IS SHOWN
SM =	REGULAR (ONLY NOTED IF IT APPLIES)
	TITLE SYMBOL, ON SHEET WHERE SHOWN
A =	IDENTIFYING NUMBER/LETTER
	REVISION CLOUD AND REVISION NUMBER
	KEYED REFERENCE
	NOTE OR SHEET NOTE
	POINT OF CONNECTION

COMPRESSED AIR SYSTEM SPECIFICATION

COMPRESSED AIR SYSTEM SPECIFICATION
THE CONTRACTOR SHALL PROVIDE A COMPLETE, FULLY FUNCTIONAL COMPRESSED AIR SYSTEM. THE SYSTEM SHALL SUPPLY 125 PSIG COMPRESSED AIR TO SIX (6) AIR STATIONS WITHIN THE VEHICLE INTEGRATION BUILDING USING A LOOP DISTRIBUTION CONFIGURATION.

THE PRIMARY SYSTEM COMPONENTS SHALL INCLUDE:
AIR COMPRESSOR: OIL-FREE, AIR-COOLED, ROTARY, FIXED SPEED COMPRESSOR RATED 150 CFM @ 125 PSIG.
AIR DRYER: NON-CYCLING, DESICCANT TYPE, RATED 200 CFM, COMPLETE WITH PREFILTER.
AIR RECEIVER: VERTICAL, TWO-GALLON VESSEL, MAXIMUM ALLOWABLE WORKING PRESSURE 200 PSIG @ 400°F.

ALL PIPING, FITTINGS, VALVES, AND ACCESSORIES SHALL BE SUITABLE FOR THE DESIGN PRESSURE AND TEMPERATURE OF THE SYSTEM.
PIPE MATERIAL: CARBON STEEL PIPE: ASTM A53/MS GRADE B, TYPE E OR S, BLACK FINISH, SCHEDULE 40 UNLESS NOTED OTHERWISE, DIMENSIONS PER ASME B36.10.
JOINTS: THREADS FOR FERROUS PIPING: USE PTG THREAD TAPE CONFORMING TO ASTM D3338 FOR SEALING.
FITTINGS: CLASS 150 CAST IRON, ASTM A7, PER ASME B16.1.
COUPLINGS: SEAMLESS TYPE 1 (HOT-DIP GALVANIZED) CARBON STEEL, PER ASTM A885 THREADED TO ASME B1.20 VALVES: INSTALLED AS SHOWN OR WHERE REQUIRED, ORIENT STEMS HORIZONTALLY OR UPWARD.

PINCH POINTS:
 1. LINES - NOT LESS THAN "1/4" IN DICTION OF FLOW
 2. OTHER LINES - NOT LESS THAN "1/4" IN DICTION LOW POINT DRAINS
 3. DUMP LINES - NOT LESS THAN "1/2" IN DICTION FOR DRAINAGE
 4. BRANCH CONNECTIONS: PROVIDE AS SHOWN OR APPROVED TO ENSURE FULL CHARGE
 5. UNRESTRICTED FLOW: LINE ECCENTRIC REDUCERS FOR HORIZONTAL SIZE CHANGES
 6. FLEXIBLE CONNECTIONS: ALLOW FOR PIPE MOVEMENT AND THERMAL EXPANSION AND CONTRACTION
 7. WITH CELL CLASSIFICATION ASTM D3035, 4824/24C OR BETTER, AND SHALL BE MANUFACTURED FOR
 8. USE WITH POLYETHYLENE GLASS REINFORCED FIBER (FRP) OR POLYETHYLENE GLASS REINFORCED
 9. ACCORDANCE WITH ASTM D2729, IF POLYETHYLENE PERMITTED WHERE REQUIRED, AND ALL FUSION WELD
 10. JOINTS SHALL BE MADE IN ACCORDANCE WITH THE POLYMER MANUFACTURER'S RECOMMENDATIONS
 11. FOR ALL JOINTS OR RELATED ABOVE-GROUND JOINTS SHALL BE AS RESISTANT AND DESIGNED TO ACCOMMODATE
 12. THERMAL EXPANSION AND CONTRACTION, WITH PROPER ANCHORAGE AND PROTECTION FROM MECHANICAL
 13. DAMAGE. ALL JOINTS SHALL BE MADE IN ACCORDANCE WITH THE POLYMER MANUFACTURER'S RECOMMENDATIONS
 14. ONLY WHERE REQUIRED FOR COMPRESSED AIR AND LOW-TEMPERATURE SERVICE. SYSTEM SHALL INCLUDE PRESSURE
 15. AND TEMPERATURE MONITORING AND ALARM SYSTEMS. ALL SYSTEMS SHALL BE DESIGNED AND SHALL COMPLY
 16. WITH APPLICABLE CODES AND OWNER REQUIREMENTS FOR COMPRESSED AIR SYSTEMS.

PIPE SUPPORTS

1. SUPPORT ALL HORIZONTAL AND VERTICAL PIPING PER MSS SP-58 AND SP-59.
2. ALL HANGERS, RODS, BOLTS, AND HARDWARE SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123 AND ASTM A153.

VALVES AND INSTRUMENTATION

1. BALL VALVES (3" AND SMALLER): AS SHOWN ON SHEET M-602, TABLE 3.

2. PRESSURE GAUGE (AIR RECEIVER):

A. MODEL: ASHCROFT TYPE 5059 STAINLESS STEEL CASE, 3/4" DIA., 1/2" NPT MALE PROCESS CONNECTION.
ORDERING CODE: 355059 SW L 09 L 2008

B. GAUGE VALVE: ASHCROFT WITH 1/2" NPT MALE PROCESS AND 1/2" NPT FEMALE INSTRUMENT CONNECTIONS.
ORDERING CODE: 54 1058 DIA 00 00

1. ONE-WAY SHUT-OFF TYPE WITH AUTOMATIC SOCKET-END CLOSURE.

2. PLUG SHALL SWIVEL FREELY WHEN CONNECTED.

3. MATERIALS: SOCKET MACHINED FROM SOLID BRASS BAR, LOCKING PAWLS, SLEEVE SPRING, AND VALVE SPRING SHALL BE STAINLESS STEEL.

QUALIFICATION REQUIREMENTS

1. AIR COMPRESSOR, AIR DRIVER, AND AIR RECEIVER, INSTALL AS SHOWN ON DRAWINGS OR PROVIDE APPROVED EQUIVALENTS.
2. AIR RECEIVER CONSTRUCTION:
 - FABRICATE, INSULATE, AND ASME CODE-STAMP PER ASME SECTION VIII, DIVISION 1.
3. MINIMUM CONNECTIONS:
 - (2) IF NOZZLES (INLET/OUTLET - NS)
 - (1) LOW-POINT DRAIN NOZZLE (NS) WITH NO-LOSS DRAIN VALVE
 - (1) SAFETY RELIEF VALVE NOZZLE (NS TOP)
4. ALL CONNECTIONS SHALL BE FEMALE NPT.
COATINGS: PRIMER (INTERIOR AND EXTERIOR); EXTERIOR ENAMEL, INTERIOR EPOXY, PER MANUFACTURER'S RECOMMENDATIONS.

1. CLEARING BLIND OUT PIPING WITH COMPRESSED AIR BEFORE TESTING TO REMOVE ALL DEBRIS.
2. AIR TIGHTNESS TEST:
 1. TEST SYSTEM (OR ISOLATE SECTIONS) AT 125 PSIG FOR A MINIMUM OF 1 HOUR.
 2. ISOLATE FROM COMPRESSORS AND EXTERNAL AIR SOURCES DURING TESTING.
 3. CORRECT FOR ATMOSPHERIC CHANGES USING THE RELATIONSHIP:
$$\text{WHERE: } \Delta \text{ ABSOLUTE TEMPERATURE AND } \Delta \text{ ABSOLUTE PRESSURE.}$$
3. ACCEPT TEST ONLY IF NO PRESSURE LOSS AFTER CORRECTIONS.
4. TEST INSTRUMENTS MUST BE APPROVED BY THE OWNER AND AVAILABLE FOR INSPECTION THROUGHOUT TESTING.

PLUMBING GENERAL NOTES

2. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH 2023 BUILDING CODE - PLUMBING.
2. PROVIDE ACCESS PANELS WHERE NECESSARY (1X12X1/2").
3. ALL LOCATIONS OF EQUIPMENT, FLOOR DRAINING, PIPES, ETC. INDICATED ON THE DRAWINGS ARE CHANGES TO BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE PLANS SUBJECT TO BUILDING CONSTRUCTION AND INTERFERRERS WITH OTHER TRADES. ALL WORK SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD MEASUREMENTS AND MODIFICATIONS TO THE DRAWINGS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO ENGINEER FOR REVIEW ON SHOP DRAWINGS. WHEN PIPING SHOWN IS ONLY FOR DIAGNOSTIC PURPOSES, THIS SHALL BE INDICATED ON THE DRAWINGS.
4. SIZE CLOSURES TO MATCH THE PIPING SHOWN.
5. THE MANUFACTURERS OF EQUIPMENT SHALL BE THE BASIS OF DESIGN AND ARE THE OWNERS' PREFERRED MANUFACTURERS OF CHOICE. SEE SPECIFICATION FOR OTHER ACCEPTABLE MANUFACTURERS.
6. COORDINATE UNDERGROUND PIPING AVOID INTERFERENCE WITH STRUCTURAL FOOTING ELEVATIONS AND CIVIL MILEAGE CONNECTIONS FOR ANY UNDERGROUND PIPING INSTALLATIONS IF FOOTING ELEVATIONS ARE NOT AVAILABLE. PROVIDE 12" MINIMUM COVER. COORDINATE WITH CIVIL ENGINEER FOR DROPS IN FOOTING AS REQUIRED.
7. SLOPE SANITARY PIPING 2.0% OR LESS AT PER FOOT. SLOPE SANITARY PIPING 2" AND LARGER AT 1.0% PER FOOT.
8. VALVES AND FITTINGS SHALL BE THE SAME SIZE AS THE PIPING WHERE THEY ARE LOCATED UNLESS NOTED OTHERWISE.
9. ROUGHEN WATER AND WASTE SUPPLIES FOR PLUMBING AND PERFORM PLUMB CONNECTIONS AS REQUIRED.
10. THE CONTRACTOR SHALL MAKE BEHINDER PROPOSED, IF EQUIPMENT OR SCHEDULE OR SPECIFICATIONS AND SCHEDULED ON THE DRAWINGS. IF MORE THAN ONE MANUFACTURE OF EQUIPMENT IS SHOWN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF THIS CONTRACTOR. THE EQUIPMENT OR THE CONTRACTOR WILL USE EQUIPMENT NOT SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SELECTION OF THE TRADES. THE EQUIPMENT HEREIN WOULD SUBSTITUTE AND THE COST TO BE ADDED TO OR SUBTRACTED FROM THE CONTRACT.
11. COMPLY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) FOR BUILDING PLUMBING AND FACILITIES.
12. ALL AUTOMATIC CONTROL, PROTECTIVE OR SIGNAL DEVICES REQUIRED FOR THE OPERATION OF EQUIPMENT SHALL BE PROVIDED WITH CONTACT, WIRING AND INSTALLED PER MANUFACTURER REQUIREMENTS.
13. SANITARY AND VENT PIPING SHALL BE SERVICE WEIGHT K80 OR K100, SCHEDULE 40S, P.V.C. OR POLYETHYLENE GLYCOL (PE) PIPE. ALL OTHERS SHALL BE SCHEDULE 40S, P.V.C. OR POLYETHYLENE GLYCOL (PE) PIPE. SERVICE WEIGHT K80 OR K100, SCHEDULE 40S, P.V.C. OR POLYETHYLENE GLYCOL (PE) PIPE. ALL OTHERS SHALL BE SCHEDULE 40S, P.V.C. OR POLYETHYLENE GLYCOL (PE) PIPE. ALL OTHERS SHALL BE SCHEDULE 40S, P.V.C. OR POLYETHYLENE GLYCOL (PE) PIPE.
14. PROVIDE DIELECTRIC UNIONS AT ALL DISSIMILAR PIPE CONNECTIONS.
15. PROVIDE AN IRON ARB WHEN REQUIRED BY CODE. SERVING INDIVIDUAL FATHERS, DEVICES, APPLIANCES AND APPURTEANES.
16. INSTALL LATER BRACING WITH PIPE HANGERS AND SUPPORTS TO PREVENT SWAYING.
17. ALL MISCELLANEOUS IRON AND STEEL WORK REQUIRED TO PROPERLY INSTALL THE PLUMBING WORK AND EQUIPMENT SHALL BE FORMED AND INSTALLED BY THE CONTRACTOR. WORK SHALL BE FORMED, SUPPORTED AND BRACED TO PREVENT SWAYING. ALL MISCELLANEOUS IRON AND STEEL WORK SHALL BE FORMED AND INSTALLED BY THE CONTRACTOR. WORK SHALL BE FORMED, SUPPORTED AND BRACED TO PREVENT SWAYING. ALL MISCELLANEOUS IRON AND STEEL WORK SHALL BE FORMED AND INSTALLED BY THE CONTRACTOR. WORK SHALL BE FORMED, SUPPORTED AND BRACED TO PREVENT SWAYING.
18. PLUMBING CONTRACTOR SHALL COORDINATE/VERIFY ALL UTILITIES AND EQUIPMENT CONNECTIONS PRIOR TO CONSTRUCTION. PROVIDE ALL NECESSARY APPROVALS INCLUDING, BUT NOT LIMITED TO: SHUT-OFF VALVES, QUOTED CONNECTIONS, FLEXIBLE TURNING, REGULATORS, ETC. ALL WORK SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FIELD MEASUREMENTS AND MODIFICATIONS TO THE DRAWINGS. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO ENGINEER FOR REVIEW ON SHOP DRAWINGS. WHEN PIPING SHOWN IS ONLY FOR DIAGNOSTIC PURPOSES, THIS SHALL BE INDICATED ON THE DRAWINGS.

COMPRESSED AIR CONNECTION SCHEDULE					
SERVICE LOCATION	AIR QUALITY ISO 8573-1	# OF OUTLETS	OUTLET TYPE	CONNECTION SIZE	
A	1.2.0 (0.004 mg/m3)	3	BSPW IN ISOLATION VALVE	1/2"	
B	1.2.0 (0.004 mg/m3)	3	BSPW IN ISOLATION VALVE	1/2"	
C	4.2.4	3	INDUSTRIAL INTERCHANGE COUPLER (FEMALE)	1/4"	
D	4.2.4	3	INDUSTRIAL INTERCHANGE COUPLER (FEMALE)	1/4"	
E	4.2.4	2	BSPW IN ISOLATION VALVE	1"	
F	BSPW IN ISOLATION VALVE	1	BSPW IN ISOLATION VALVE	1"	

DRAWING NOTES:

1. ALL UNDERGROUND COMPRESSED AIR PIPING TO BE 2" HDPE PE4710, TYPICAL.
2. COMPRESSED AIR PIPING TO BE BURIED AT 2-1/2 FT BELOW GRADE, REFER TO TRENCHING DETAIL.

KEY NOTES:

1 SERVICE LOCATION, SEE COMPRESSED AIR CONNECTION SCHEDULE ON THIS SHEET.



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ALASKA AEROSPACE CORPORATION



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DANIEL QUINONES
AK PF 245438

DESIGNED BY
D. QUINONES

CRAIN, R. J.

S. NASH
PROJECT NUMBER

C09729.001

DATE
05/08/2026

TITLE

SITE PLAN

[illegible]

DRAWING NO.
P-121





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DANIEL QUINONES
AK PE 245438

DESIGNED BY

D. QUINONES

S. NASH

PROJECT NUMBER
C09729 001

DATE _____

05/08/2026
TIME

PLUMBING

ENLARGED

ENLARGED
PLANS

PLANS

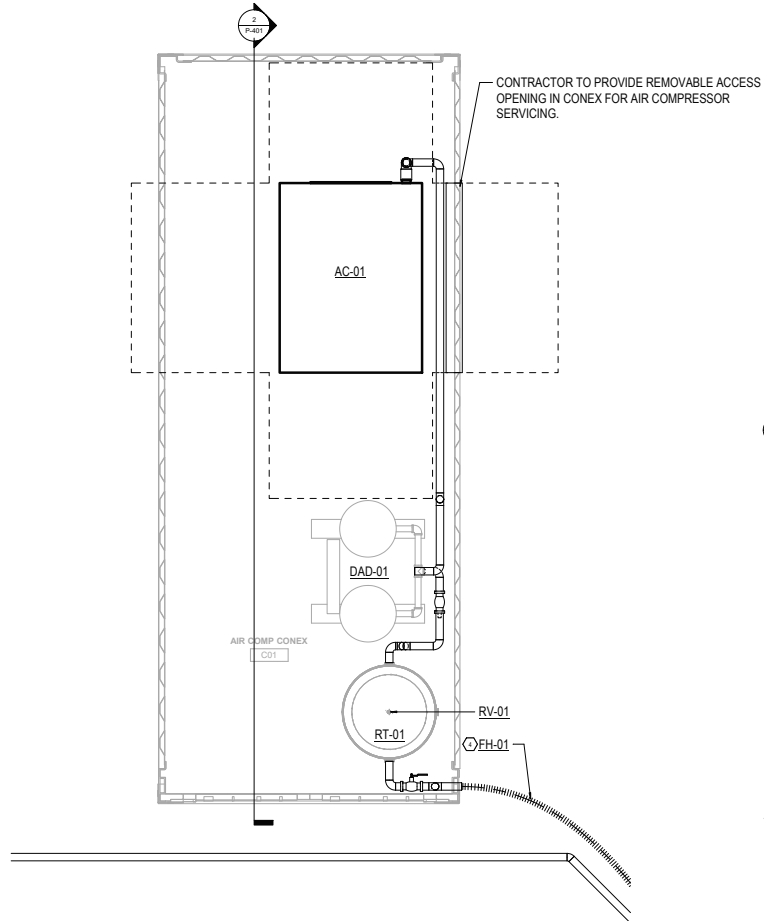
DRAWING NO.
D-101

P-401

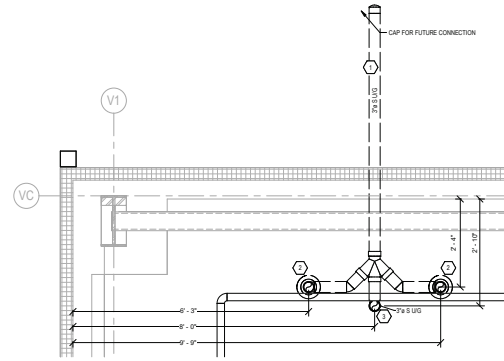
1

1 3" PVC, EXTEND 5FT FROM BUILDING. 4FT INVERT ELEVATION.

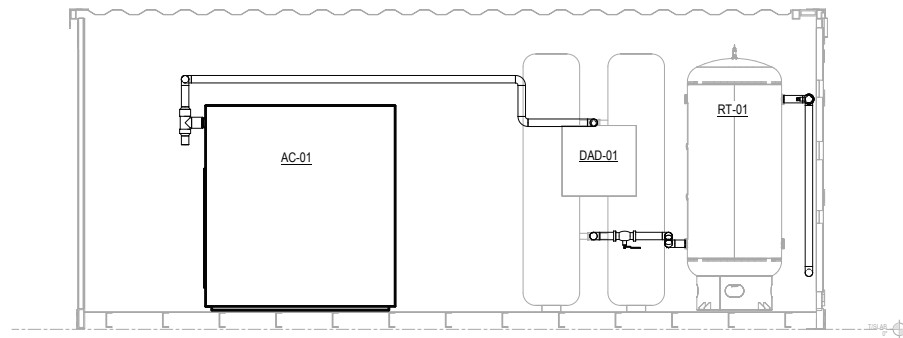
- 1 3" PVC, EXTEND 5FT FROM BUILDING. 4FT INVERT ELEVATION.
- 2 STD. 3" TOILET FLANGE. TYP.
- 3 3" SANITARY RISER FEMALE, FLUSH WITH FLOOR.
- 4 FLEXIBLE COMPRESSED AIR HOSE, SEE FLEXIBLE HOSE SCHEDULE FOR SPECIFICATIONS.



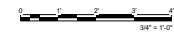
1 CONDENSED AIR CONEX ENLARGED PLAN
3/4" = 1'-0"

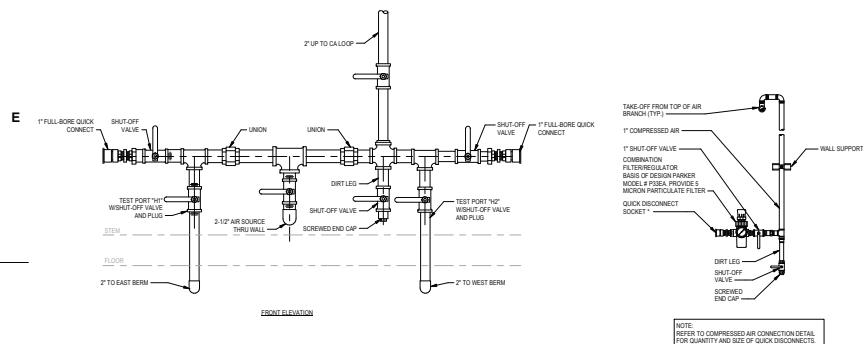


③ **SANITARY ENLARGED PLAN**
3/4" = 1'-0"

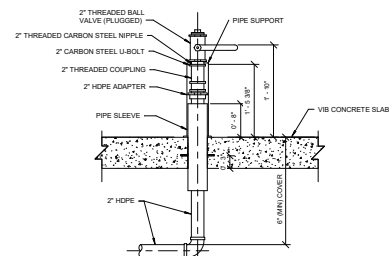


2 CONDENSED AIR CONEX SECTION
3/4" = 1'-0"

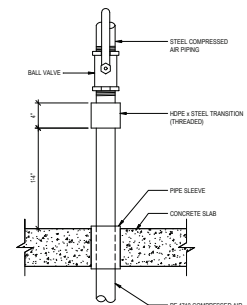




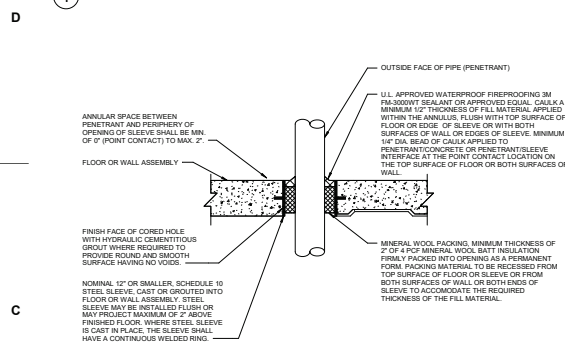
1 CA MANIFOLD DETAIL



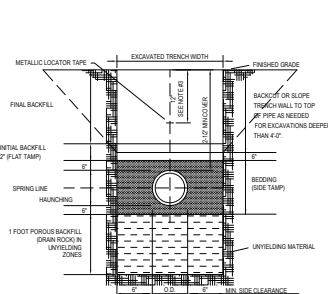
③ CW STUB UP DETAIL



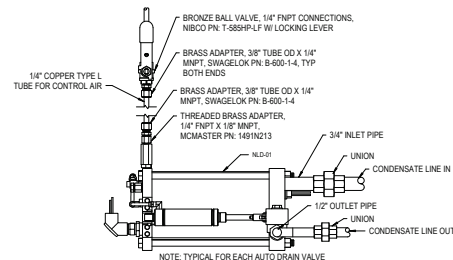
5 UNDERSLAB CA STEEL TO PE 4710 TRANSITION FITTING



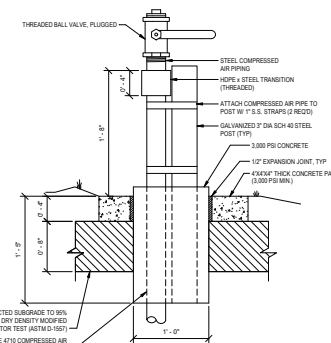
④ PIPE PENETRATION DETAIL FOR NON-INSULATED PIPING



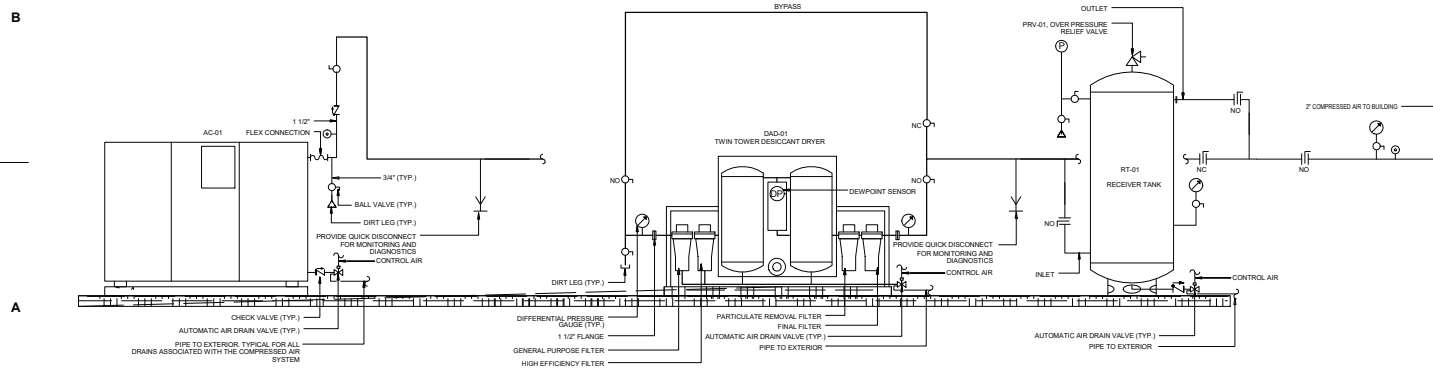
6 TYPICAL TRENCH DETAIL



7. AUTOMATIC AIR DRAIN VALVE CONNECTION DETAIL



8 EXTERIOR CA DETAIL
N.T.S.



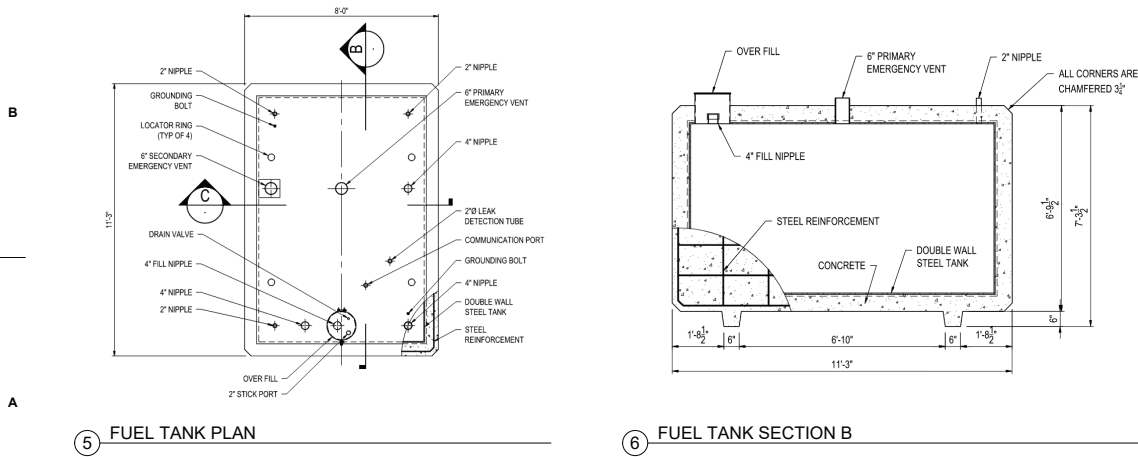
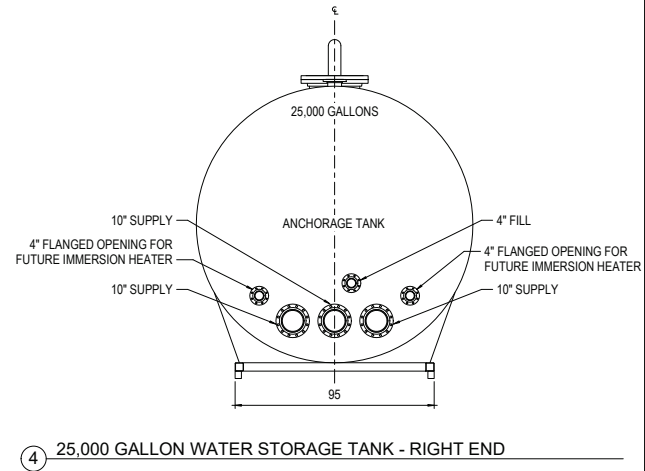
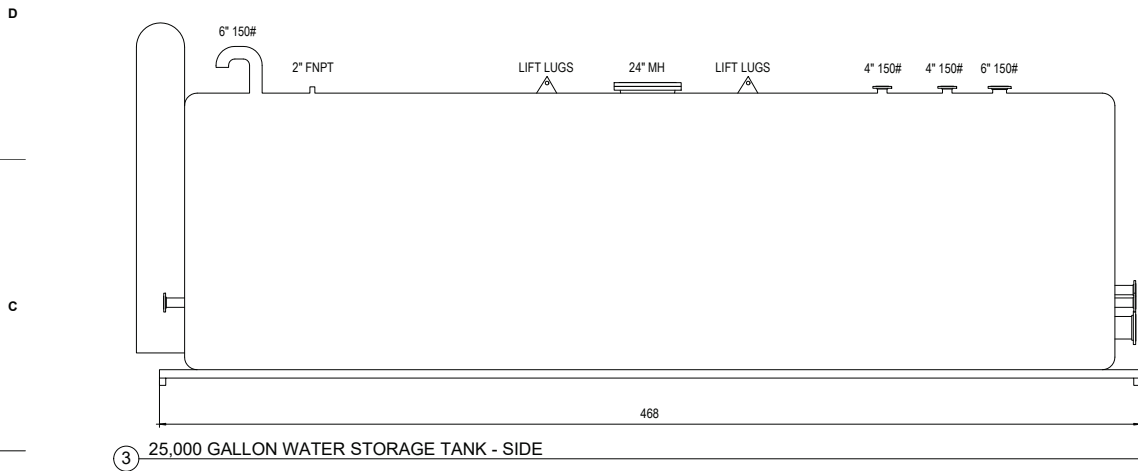
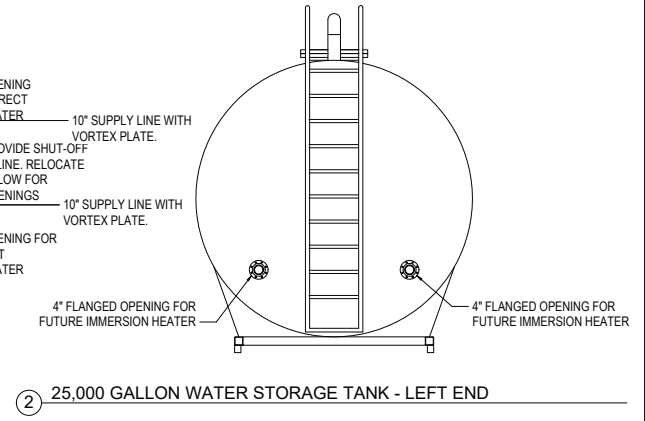
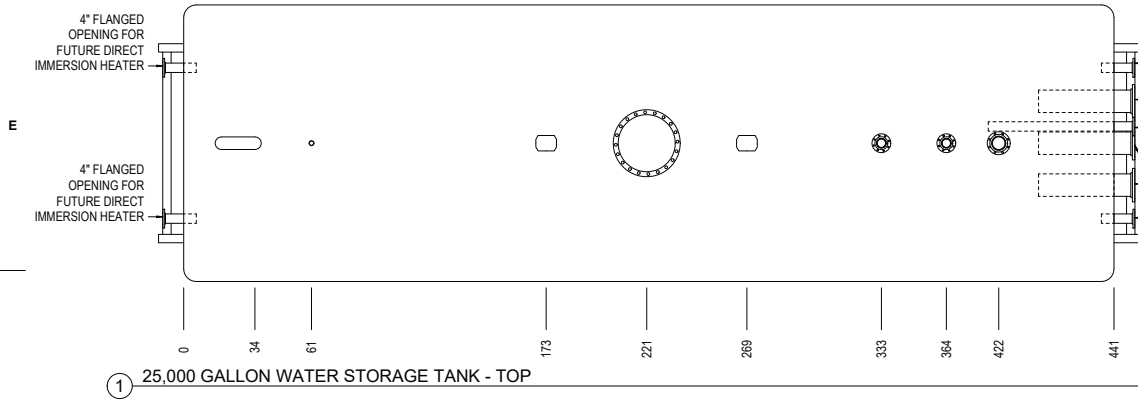
COMPRESSED AIR SCHEMATIC



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PROJECT NO.
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 AK PE 245438
 ISSUED BY
 D. GUINONES
 CHECKED BY
 S. NASH
 PROJECT NUMBER
 C09729.001

DATE
 05/08/2026
 TITLE
**PLUMBING TANK
 DETAILS**



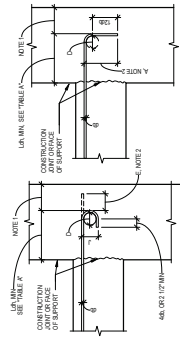
PROJECT OF RECORD
 BRIAN LEESAYRE
 ALASKA SE 215775
 ELEGANT
 C. ALTIKOK
 DWAYN
 K. BANNISTER
 PROJECTMAN
 C09725 001
 DATE
 05/08/2026
 TITLE
 ABBREVIATIONS,
 LEGENDS &
 SPLICE TABLES
 DRAWING NO.
S-004

ABBREVIATIONS

[illegible]

SYMBOLS AND LEGEND

SYMBOL	DESCRIPTION
	POINT OF REFERENCE ELEVATION
	BENCHMARK (IRON POST)
	EARTH
	CONCRETE
	CRUSHED STONE
	KEYNOTE
	GRAVEL LINE
	PAVEMENT
	JOINT
	DOWNWARD SLOPE
SYMBOL	DESCRIPTION
	SECTION LETTER
	WATER DRAIN
	DETAIL NUMBER
	WATER DRAIN
	NORTH
	NORTH
	CM WALL
	CONCRETE WALL
	WALL BELOW



90 DEGREE HOOK

END-HOOK				
ALL GRADES				
(D) FINISHED BED DIMETER				
BAR SIZE	D	180° HOOKS		50° HOOKS
		E	J	A
#3	2 1/8"	5"	7"	8"
#4	2 1/4"	5"	7"	8"
#5	3 3/8"	7"	8"	10"
#6	4 1/2"	8"	9"	12"
#7	5 1/2"	10"	11"	14"
#8	6 1/2"	11"	12"	16"
#9	7 1/2"	12"	13"	18"
#10	10 3/8"	17"	18"	22"
#11	10 1/2"	19"	20"	24"
#12	11 1/2"	21"	22"	26"
#14	16 1/8"	28"	30"	31"
#16	20"	36"	38"	41"

TABLE A

DNR SIZE	NORMAL WEIGHT CONCENTR. (g/g)					10.00
	3.000	4.000	5.000	6.000	8.000	
#3	6	6	6	6	6	6
#4	6	6	7	7	7	6
#5	6	6	7	7	7	7
#6	6	12	6	6	6	6
#7	6	14	12	11	10	9
#8	6	15	13	11	10	9
#9	6	15	14	11	11	10
#10	6	20	17	15	14	14
#11	6	27	25	20	19	11
#12	6	32	32	25	25	12
#13	6	32	32	25	25	12
#14	6	50	45	35	35	20
#15	6	50	45	35	35	20

NOTES:

- NOTE: VALUES VALID FOR ALL CASES IF:
SIDE COVER $\geq 2\frac{1}{2}"$
END COVER $\geq 2"$

STANDARD HOOKS AND EMBEDMENT

SCALE-NTS

[illegible]**NOTES:**

- [illegible]

REINF BAR DEVELOPMENT AND
SPLICE LENGTH TABLES

SCALE-NTS

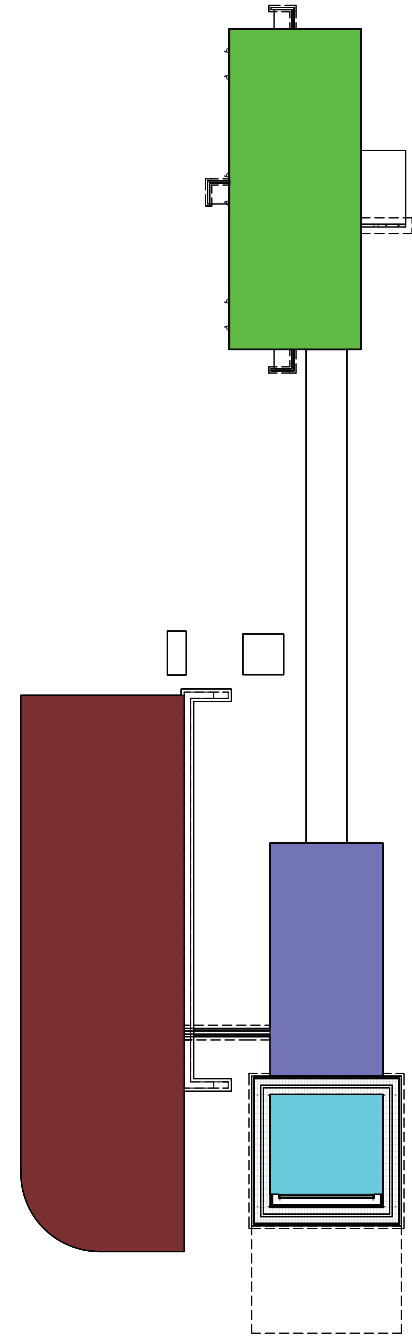
		EFFECTIVE WIND AREA (E _f)				
		10	20	30	100	200
ZONE	4	+04.91	+01.87	+79.42	+71.78	+57.74
	5	+04.112	+01.104	+79.594	+71.487	+57.179
						+56.72

- ## 6 COMPONENTS & CLADDING LOADS

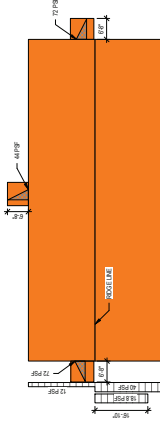
COMPONENT & CLADDING WALL WIND PRESSURES (PSF)		EFFECTIVE WIND AREA (SF)				
ZONE		10	20	50	100	200
4		+64/-91	+80/-87	+75/-82	+71/-78	+67/-74
5		+84/-112	+83/-104	+75/-94	+71/-87	+67/-79

1. FOR NET ROOF LOAD, SPREAD LOAD SHALL BE PERMISSIBLE.
2. FUS & ANALOG SIGNALS PERFORMING ACTING TOWARD AND AWAY FROM THE SURFACE.
3. ZONE 4 - WALL, AREA OF OTHER THINZONES & ZONE 5 - WALL, AREA WITHIN 4'-6" OF BOUNDARY.
4. PRESSURES SHOWN ARE BASED ON CHANCE 74.14 THAT WIND SPEED FOR SERVICE LEVEL 1.
5. MULTIPLE VALUES IN TABLE BY 0.6.
6. GROSS PRESSURES ARE FOR CORNERS, DOORS, VENTILATORS, LIGHT GLAZING WITH GLAZING, ATTACHMENT, ROOFING, ROOFING ACCESSORIES AND OTHER BUILDING COMPONENTS.
7. AT CORNERS AND CHIMNEYS, THE TOTAL PRESSURE ON THE ALCOVE SLOTTED, OR CORNER, SHALL BE THE PRESSURE WITHIN AREA.





1 LOAD MAP - SLAB
SCALE: NTS

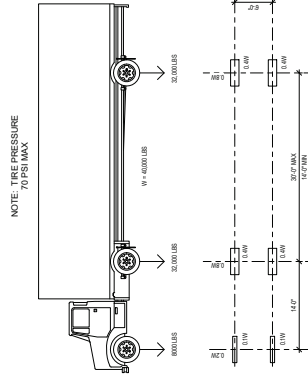


2 LOAD MAP - VIBROOF
SCALE: NTS

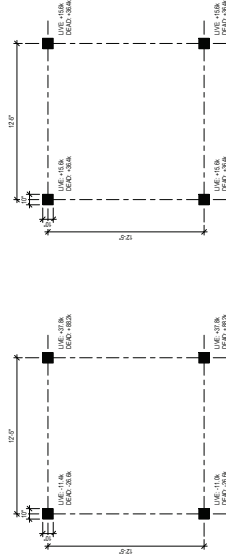
DESIGN LOAD SCHEDULE						
DESCRIPTION	DESIGNATION MARK	DEAD LOAD (PSF)	DEAD LOAD BREAK-DOWN	SUPERIMPOSED DEAD LOAD (PSF)	SUPERIMPOSED DEAD LOAD BREAK-DOWN	LIVE LOAD (PSF)
VIS L&B		-	-	-	-	125 PSF
VIS ROOF		30 + 10 PSF	WEATHER RESISTANT ROOF LOADS = 10 PSF	10 PSF	WEATHER RESISTANT CEILING = 10 PSF	20 PSF
LIFTS/STAIRWAY		-	-	-	-	125 PSF
LIAB/CH/PAID		-	-	-	-	125 PSF
COMMONITY PAD		-	-	-	-	125 PSF

NOTES:

1. LOADS ARE UNIFORMED FOR USE WITH PRESIGNED LOAD COMBINATIONS AND ARE NOT TO BE USED IN ANY OTHER MANNER.
2. SEE SHEET FOR UTMATE WIND LOADS ON ROOF, WALLS AND OTHER COMPONENTS.
3. UNIFORMED LOADS ARE TO BE USED FOR UNIFORM LOADS INDICATED HERE. UNIFORM WIND LOADS INDICATED ON THIS SHEET ARE TO BE USED FOR UNIFORM WIND LOADS.
4. UNIFORMED LOADS ARE TO BE USED FOR UNIFORM WIND LOADS INDICATED ON THIS SHEET.
5. UNIFORMED LOADS ARE TO BE USED FOR UNIFORM WIND LOADS INDICATED ON THIS SHEET.
6. UNIFORMED LOADS ARE TO BE USED FOR UNIFORM WIND LOADS INDICATED ON THIS SHEET.



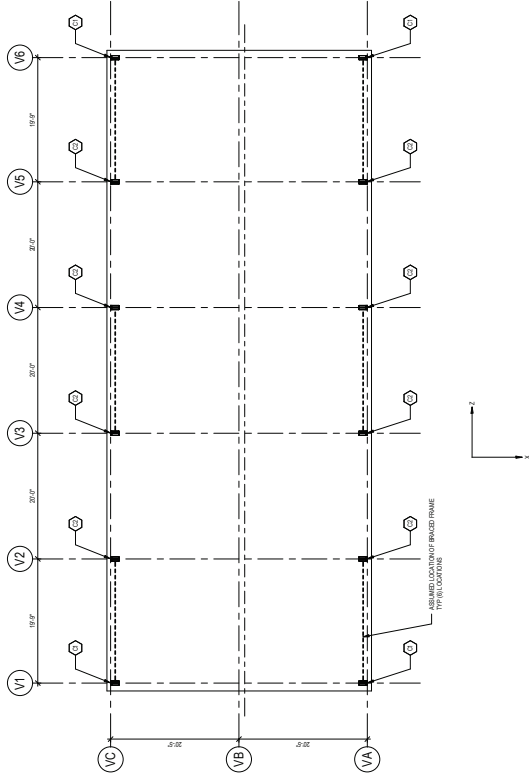
4 HS20-44 TRUCK LOADING DETAIL
SCALE: 1/8" = 1'-0"



CONDITION 1 - HORIZONTAL POSITION

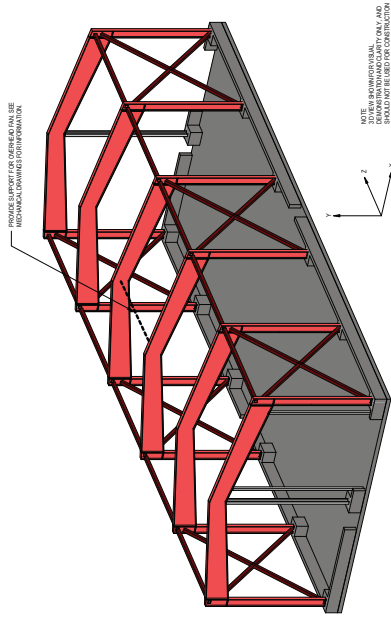
3 LAUNCH PAD LOADING DETAIL
SCALE: 1/4" = 1'-0"

PRE-ENGINEERED METAL BUILDING DEFLECTION AND DRIFT LIMITS:

[illegible]

ESTIMATED COLUMN REACTIONS (KIPS, SERVICE LEVEL)													
COLUMN	DOWNLOAD			POST TENSION LOAD	SHIMBOL/CRS			SHIMBOL/CRS			SHIMBOL/CRS		
	X	Y	Z		X	Y	Z	X	Y	Z	X	Y	Z
①	-1.0	-1.0	-0.3	-0.8	-0.8	-0.2	-0.3	-0.2	-0.3	-0.1	-0.1	-0.2	-0.1
②	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
③	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
④	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑤	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑥	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑦	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑧	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑨	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑩	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑪	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑫	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑬	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑭	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑮	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑯	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑰	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑱	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑲	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
⑳	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉑	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉒	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉓	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉔	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉕	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉖	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉗	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉘	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉙	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1
㉚	-1.2	-1.2	-0.2	-1.0	-1.0	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.1	-0.1

ASSUMED PEMB FOUNDATION LOADS



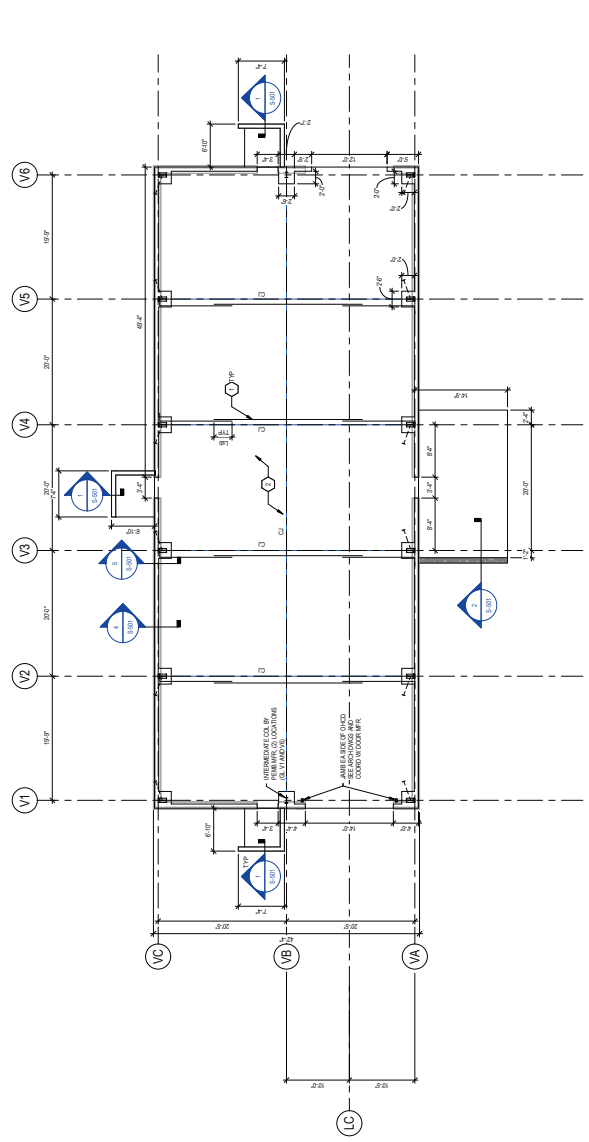
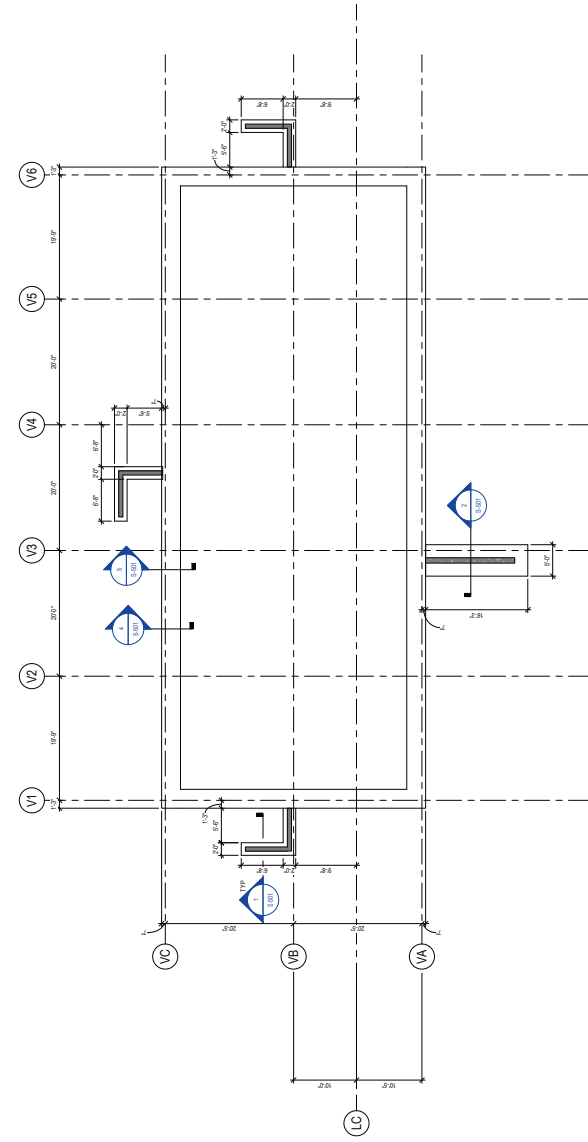
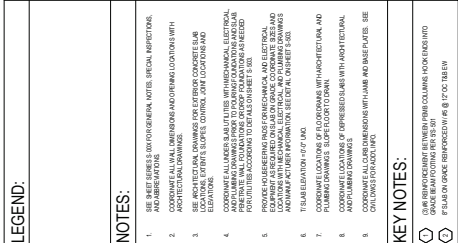
ASSUMED PEMB FRAME LAYOUT

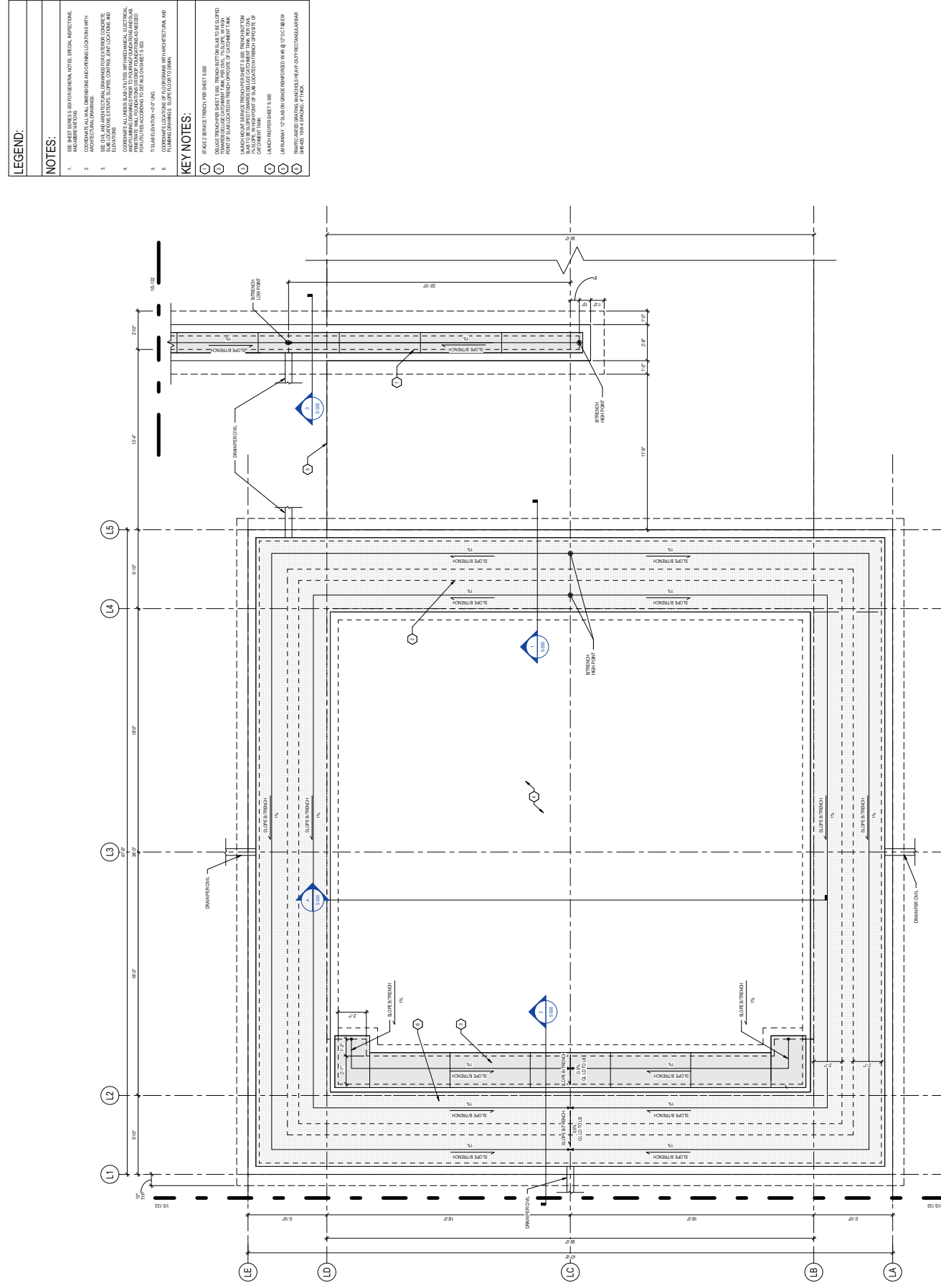


NOTHING IS RECORDED
BRIAN LEE SAYRE
ALASKA SE 215775
DESIGNED BY
C. ALTINOK
DRAWN BY
K. BANNISTER
PROJECT NUMBER
C09729.001
DATE
05/08/2026

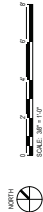
**VIB SLAB &
FOUNDATION
PLANS**

S-101





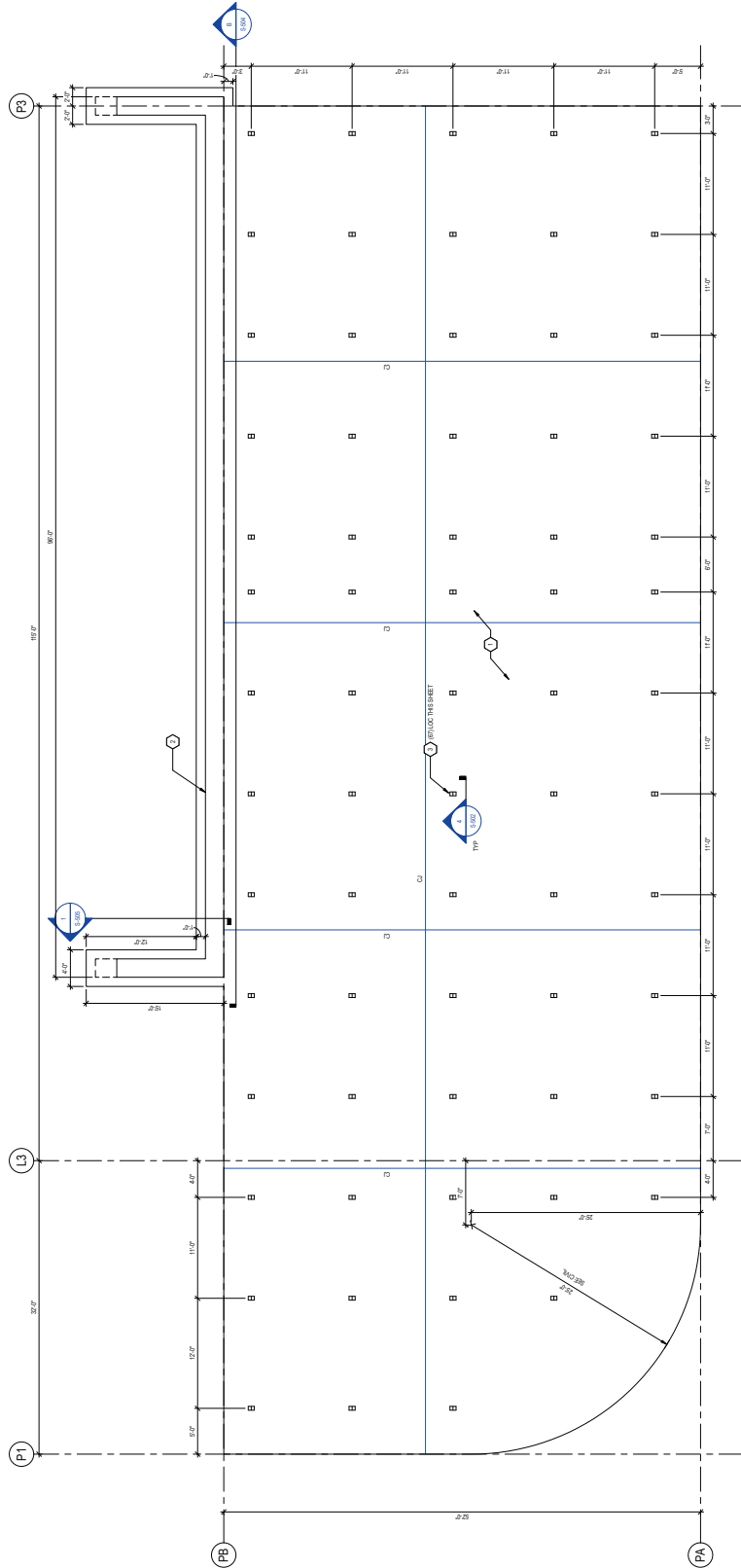
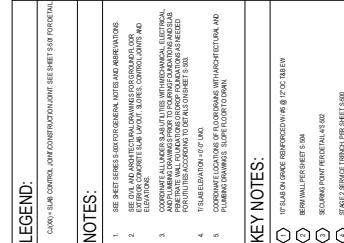
1 LAUNCH PAD & TRENCHES SLAB PLAN
SCALE: 3/8" = 1'-0"





WORKING RECORD
BRIAN LEE SAYRE
ALASKA SE 215775
DESIGNED BY
C. ALTNOOK
DRAWN
K. BANNISTER
PROJECT NUMBER
C09729_001
DATE
05/08/2026

TILE
EAST
COMMODITY PAD
SLAB PLAN
S-131
(04-000) (30)



EAST COMMODITY PAD

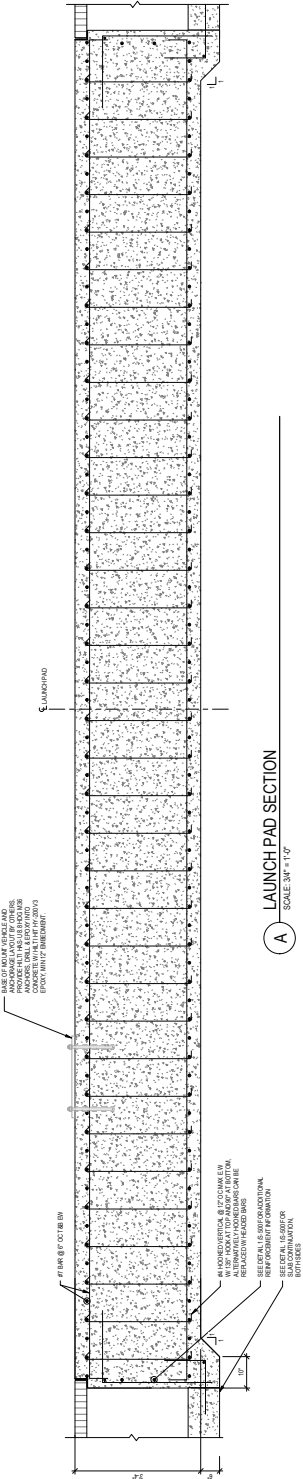
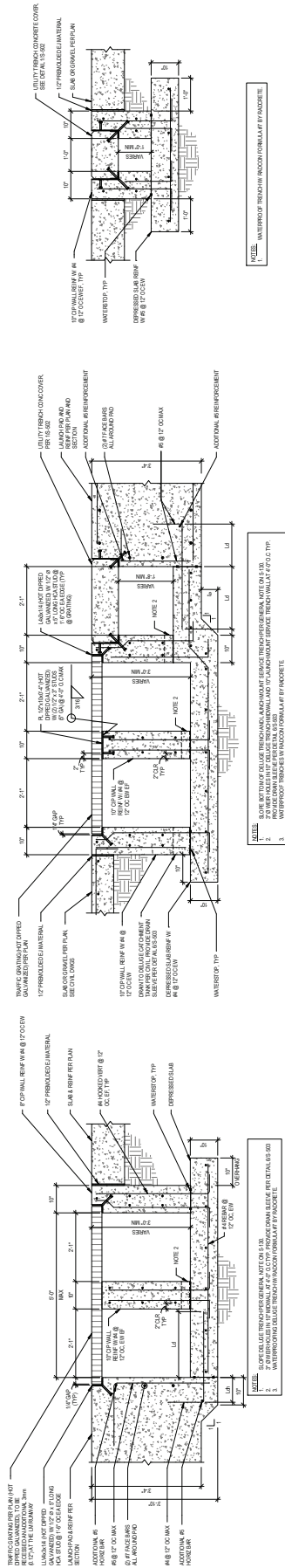


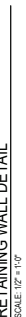


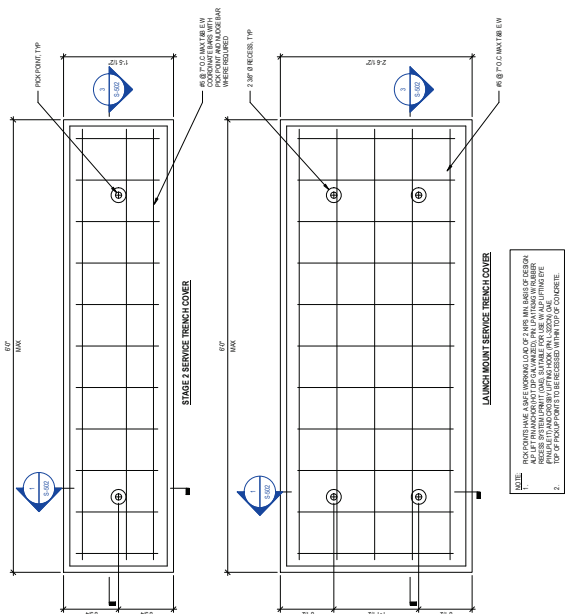
WASHINGTON RECORD
 BRIAN LEE SAYRE
 ALASKA SE 215775
 DESIGNED BY
 C. AL TINOK
 DRAWN BY
 K. BANNISTER
 PROJECT NUMBER
 C09729.001
 DATE
 05/08/2026

TILE SECTIONS & DETAILS

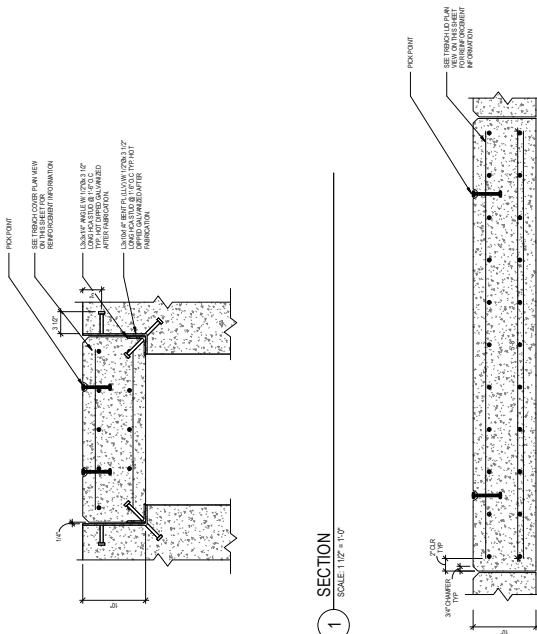
S-500
(904-799-00) 1403.



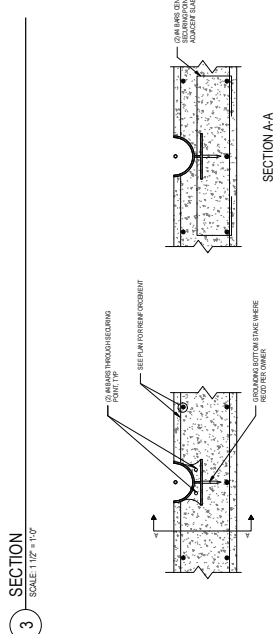




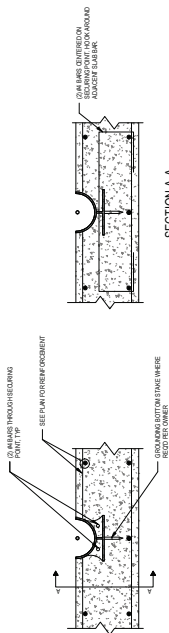
2 TRENCH CONCRETE COVER DETAIL
SCALE: 1 1/2" = 1'-0"



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



SECTION
3
SCALE: 1 1/2" = 1'-0"

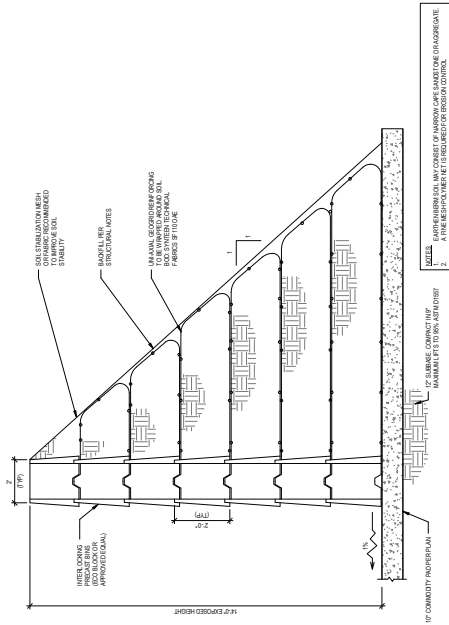


SECTION A-A

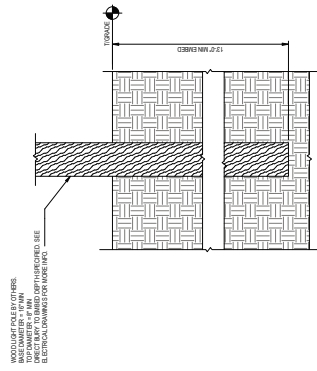
1. BASIS OF DESIGN: PACIFIC MARINE AND INDUSTRIAL, P4560 A AIRCRAFT
SECURING POINT
2. LOCATE SECURING POINT BETWEEN EXISTING REINFORCEMENT
SEE ELECTRICAL FOR GROUNDING INFORMATION

4 SECURING POINT DETAIL

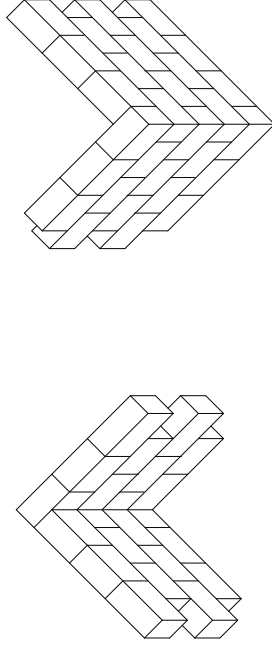




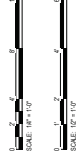
1 TYPICAL BERM SECTION
SCALE: 1/2" = 1'-0"



3 50FT LIGHT POLE FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



2 TYPICAL BERM CORNER DETAIL
SCALE: 1/4" = 1'-0"



NEW CONSTRUCTION

DESCRIPTION OF WORK

THE SCOPE OF WORK FOR THIS PROJECT WILL INCLUDE THE DESIGN AND RECONFIGURATION OF THE AREA 3 PAD D LAUNCH SITE AS PART OF THE PACIFIC SPACEPORT COMPLEX ON KODIAK ISLAND, ALASKA AEROSPACE CORPORATION. THE PROJECT WILL INCLUDE THE FOLLOWING DESIGN SCOPE:

- THE SITE CIVIL CONFIGURATION AND DEVELOPMENT OF PAD D FROM A 100FT X 100FT GRAVEL SITE TO AN EXPANDED 24FT X 100FT PAD.
- SITE WORK WILL INCLUDE EXTENDING CONCRETE DESIGN SERVICES PROVIDED BY AN OUTSIDE DESIGN PROFESSIONAL. SHOP DRAWINGS FOR THESE WILL BE SUBMITTED TO THE BUILDING OFFICE AFTER REVIEW AND APPROVAL FROM THE DESIGNER OF RECORD.
- PRE-ENGINEERED METAL BUILDING
- INSULATED METAL WALL PANELS
- METAL ROOF PANELS
- COLD FORMED STEEL FRAMING
- SNOW GUARDS

THIS PACKAGE WILL BE FOR THE PRE-ENGINEERED METAL BUILDING AND SET AND ASSOCIATED STRUCTURAL CONCRETE. ADDITIONALLY, THE PACKAGE WILL INCLUDE SITE CONCRETE DESIGN INTENDED FOR LANE 1 AND 2.

DELEGATED DESIGN / DEFERRED SUBMITTALS

THE FOLLOWING BUILDING COMPONENTS, EQUIPMENT OR SYSTEMS REQUIRE DELEGATED DESIGN SERVICES PROVIDED BY AN OUTSIDE DESIGN PROFESSIONAL. SHOP DRAWINGS FOR THESE WILL BE SUBMITTED TO THE BUILDING OFFICE AFTER REVIEW AND APPROVAL FROM THE DESIGNER OF RECORD.

- PRE-ENGINEERED METAL BUILDING
- INSULATED METAL WALL PANELS
- METAL ROOF PANELS
- COLD FORMED STEEL FRAMING
- SNOW GUARDS

VICINITY MAP

LOCATION MAP

ARCHITECT, ENGINEERS & CONSULTANTS

PROJECT MANAGER

BRPH

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cwank@brph.com
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CIVIL

BRPH

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MELBOURNE, FL 32940

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MECHANICAL / PLUMBING

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SARAH SCHILLER
206.460.2528
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AREA 3 PAD D

ALASKA AEROSPACE CORPORATION

PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA

REVISION 1
06/02/2026

GENERAL

ARCHITECTURE

CIVIL

MECHANICAL

PLUMBING

ELECTRICAL

STRUCTURAL

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425-821-3500

Offices in Melbourne, Orlando, Atlanta,
Lynnwood, Charleston and Huntsville
Alaska Business Entity Number: 56725F

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ISSUE FOR CONSTRUCTION

DOCUMENT HISTORY

1 ISSUED FOR CONSTRUCTION

AREA 3 PAD D

PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA

ALASKA AEROSPACE CORPORATION

APPROVED BY PROJECT
KEN LOWERY
AK NO. 14640

DESIGNED BY
BRPH

DESIGNED BY
C. KOTRLIK

PROJECT NUMBER
C99729.001

DATE
06/08/2026

COVER SHEET

BRPH

G-001

DOCUMENT HISTORY
1. ISSUED FOR CONSTRUCTION
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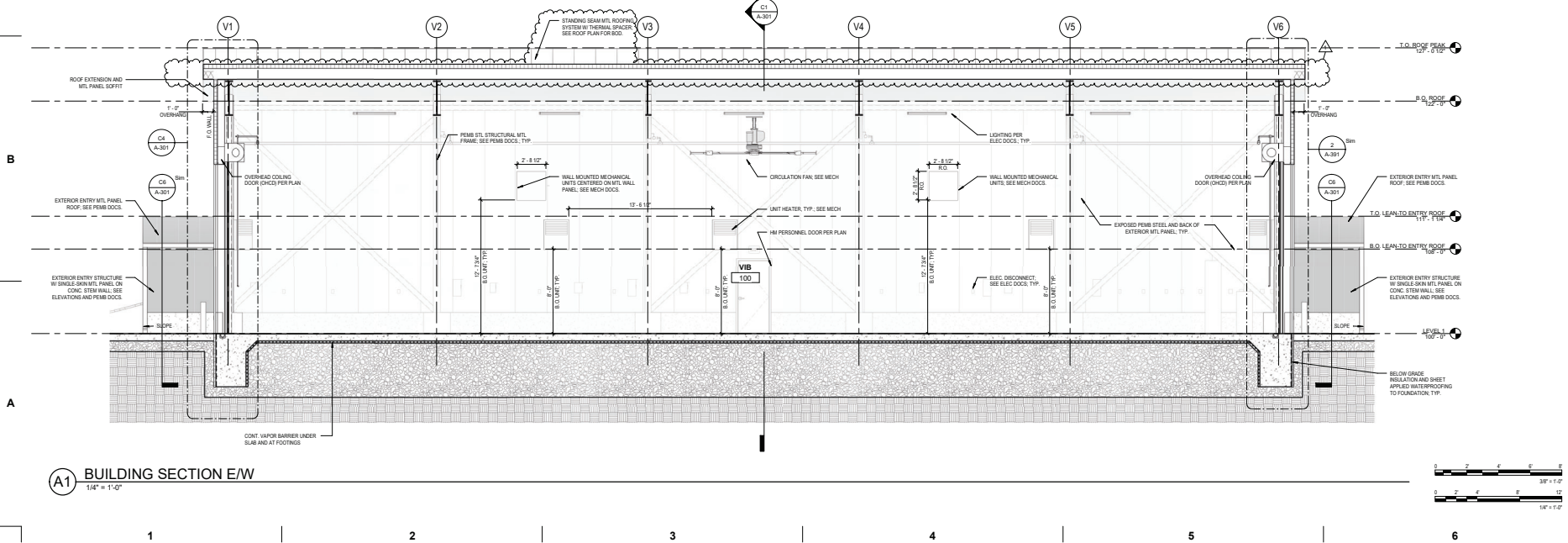
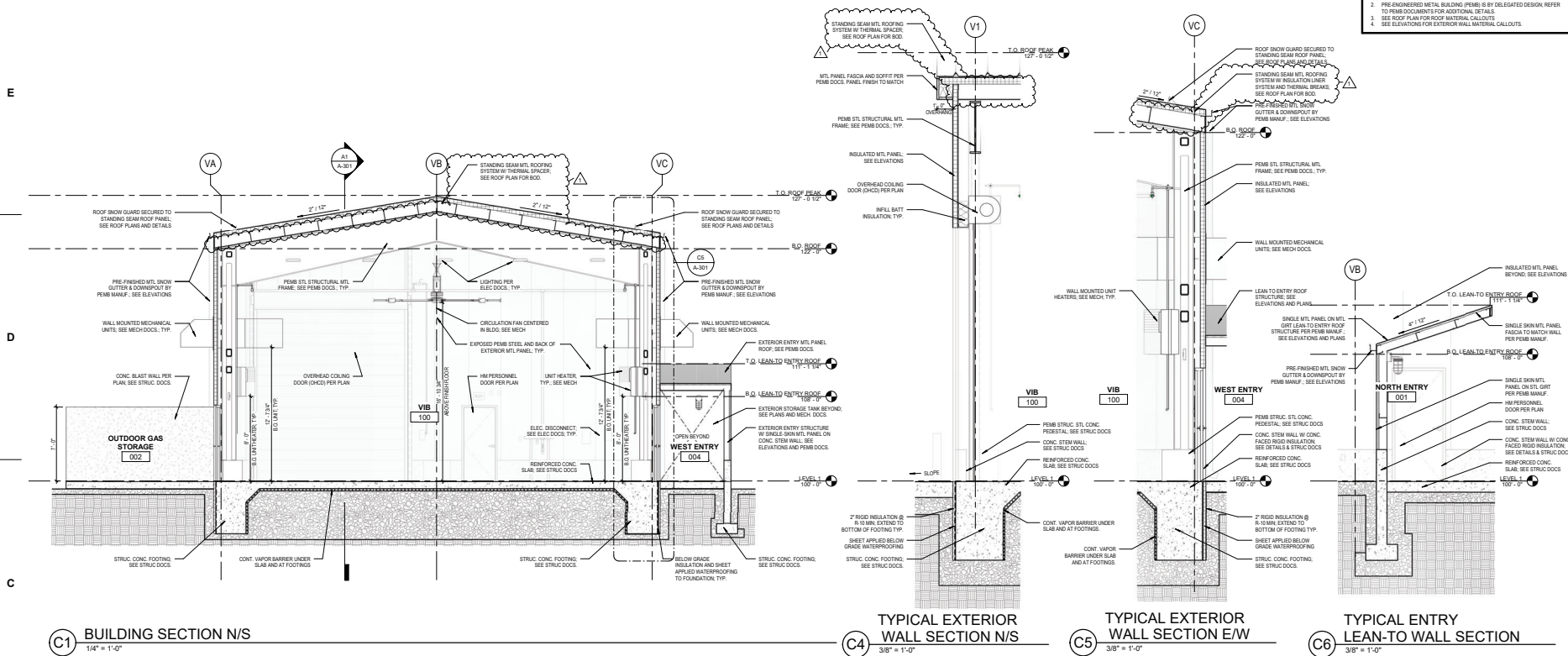
DESIGNED BY
KEN LOWERY
AK NO. 14640
CHECKED BY
C. KOTRLIK
DATE
09/29/01
DATE
05/08/2026

BUILDING SECTIONS

A-301

GENERAL NOTES

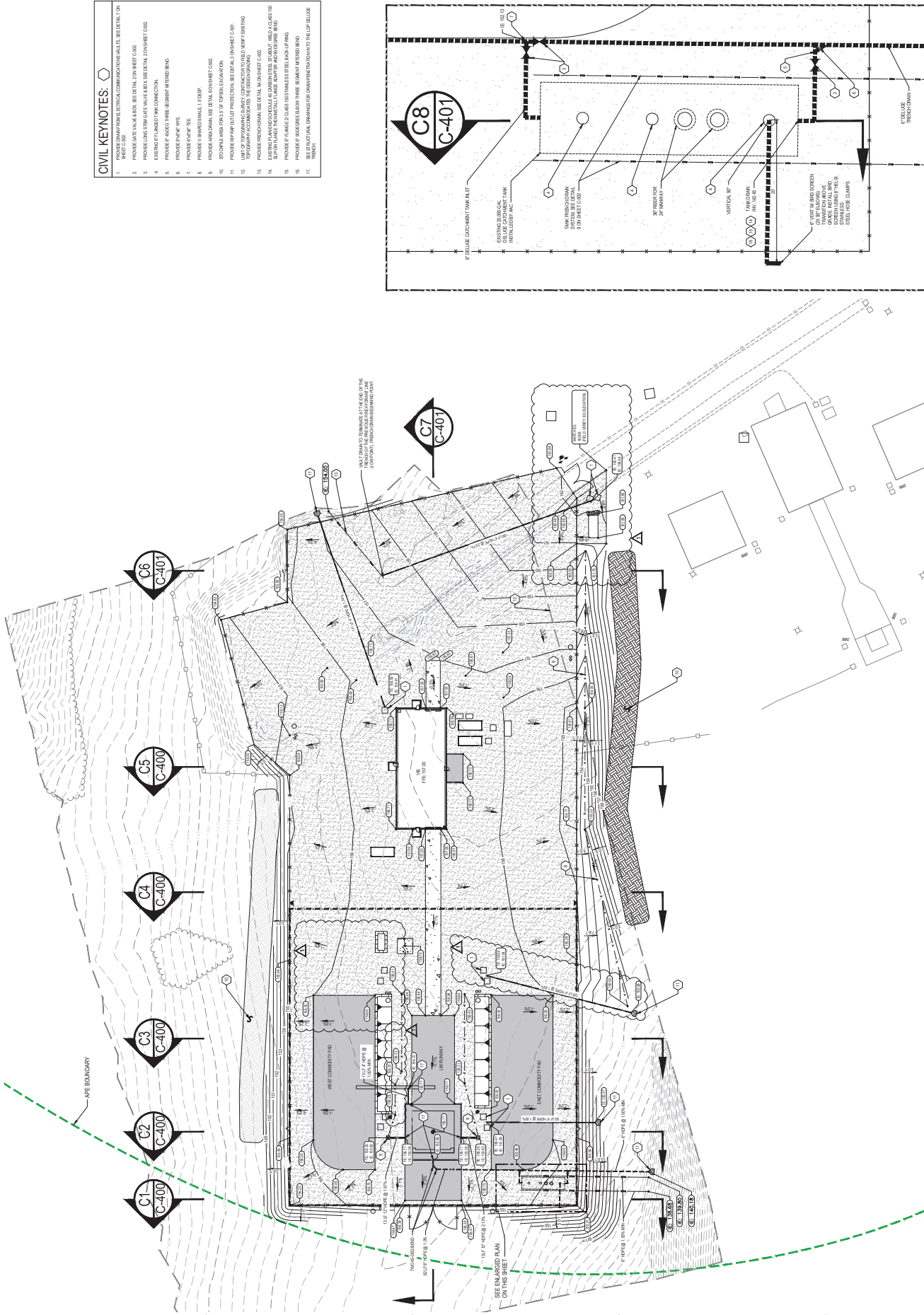
1. REFER TO STRUCTURAL DRAWINGS FOR FOUNDATIONS AND LOADS.
2. PRE-ENGINEERED METAL BUILDING (PEMB) IS BY DELIGATED DESIGN. REFER TO PEMB DOCUMENTS FOR ADDITIONAL DETAILS.
3. SEE ROOF PLAN FOR ROOF MATERIAL CALLOUTS.
4. SEE ELEVATIONS FOR EXTERIOR WALL MATERIAL CALLOUTS.





YOU DO NOT RECORD
 JENNIFER A. HARVIN
 K K PE 112979
 ORDER BY
 L LUNA
 HANLEY
 BRIONES
 OBJECT NUMBER
 99729.001.01

THE GRADING & DRAINAGE PLAN

C-141
DRAWING NO. ENLARGED PLAN

Two bar graphs are shown, one for the 1990-1991 school year and one for the 1991-1992 school year. The first graph has a scale of 1 inch = 5 students, and the second graph has a scale of 1 inch = 30 students. Both graphs show the number of students in each grade (1 through 5).

 GRADING & DRAINAGE PLAN

	1	2	3	4	5
1					
2					
3					
4					
5					

ISSUE FOR CONSTRUCTION

DOCUMENT HISTORY	
1	ISSUED
2	REVISION
3	REVISION
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99	REVISION
100	REVISION

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



If this item has been electronically signed and sealed by the licensed professional engineer using a digital signature and date. Printed copies of this document are not considered signed and sealed, and the signature must be verified on electronic copies.

Approved on behalf of:
SUSAN M SCHILLER
AK 101052
Reviewed by:
S SCHILLER
Reviewed by:
S SCHILLER
Date:
C09729.001.00
Date:
05/08/26

ELECTRICAL
SPECIFICATIONS

1. **CODES AND REQUIREMENTS**
- A. ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, STATE CODE, LOCAL BUILDING CODE AND AS REQUIRED AND OR AS SPECIFIED HEREIN OR BY THE AUTHORITY HAVING JURISDICTION, WHICHEVER IS MORE STRINGENT.
- B. OBTAIN REQUIRED PERMITS FROM THE AUTHORITY HAVING JURISDICTION AND TURN OVER TO THE GENERAL CONTRACTOR.
- C. COMPLY WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS, SUPPLEMENTAL GENERAL CONDITIONS OF THE PROJECT SPECIFICATIONS, CONTRACT DOCUMENTS, AND BASE BUILDING SPECIFICATIONS AND BUILDING ORDINANCES INCLUDED IN THIS PROJECT.
2. VISIT THE PROJECT SITE BEFORE SUBMITTING BID AND NO EXTRAS WILL BE ALLOWED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
3. DRAWINGS ARE DIAGRAMMATIC IN NATURE. TAKE DIMENSIONS FROM ARCHITECTURAL DRAWINGS, CERTIFIED EQUIPMENT DRAWINGS, AND FROM THE STRUCTURE ITSELF BEFORE FABRICATING WORK.
4. THE DRAWINGS INDICATE THE LOCATION, TYPE AND SIZES OF VARIOUS UTILITIES WITHIN THE SITE WHERE KNOWN, LOCATION OR REMOVALING REQUIRED SHALL BE APPROVED BY THE ENGINEER BEFORE PROCEEDING. INVESTIGATE UTILITIES SUCH AS ELECTRIC AND TELEPHONE AND MAKE ARRANGEMENTS WITH THE PROPER AUTHORITY TO PAY FOR CHARGES ASSOCIATED WITH CONNECTING THOSE UTILITIES. PAY FOR PERMITS, FEES, INSPECTIONS ETC.
5. VERIFY THE INTERCONNECTION REQUIREMENTS OF EACH ELECTRICAL SYSTEM BETWEEN THIS SPACE AND OTHER ATTACHED SPACE. THESE REQUIREMENTS ARE TO BE INCLUDED IN BID.
6. FURNISH LABOR, MATERIALS, EQUIPMENT, AND TOOLS TO PERFORM THE ELECTRICAL WORK AS INDICATED, AND/OR AS REQUIRED FOR A COMPLETE AND OPERABLE INSTALLATION.
7. PROVIDE TEMPORARY SERVICE: WIRING, POWER, AND LIGHTS AS REQUIRED. TEMPORARY SERVICE SHALL MEET NEC AND OSHA REQUIREMENTS CONCERNING GROUND FAULT PROTECTION AND ARC FLASH. UPON COMPLETION OF PROJECT, REMOVE CONDUIT, CONDUCTORS, DEVICES, ETC., ASSOCIATED WITH TEMPORARY SERVICE AND WIRING.
8. PROVIDE TEMPORARY LIGHTING AT PERIMETER ROAD IF/AS REQUIRED TO PROVIDE TEMPORARY LIGHTING IN PLACE OF REMOVED/DISCONNECTED EXISTING FIXTURES.
9. RECORD FIELD CHANGES IN THE WORK AS THE JOB PROGRESSES, AND UPON COMPLETION SHALL TURN OVER TO THE GENERAL CONTRACTOR A RECORD SET OF PRINTS AND SPECIFICATIONS SHOWING THESE CHANGES.
10. GOOD WORKMANSHIP AND APPEARANCE ARE CONSIDERED EQUAL TO PROPER OPERATION.
11. PROVIDE CORB DRILLING, CHANNELING, CUTTING, PATTERNING, TRENCHING AND BACKFILL AS REQUIRED FOR INSTALLATION OF ELECTRICAL EQUIPMENT. SEAL HOLES, FIREPROOFING WHERE NECESSARY, AND REPAIRS AND REPAIR WORK TO ORIGINAL CONDITION WHERE DAMAGED BY ELECTRICAL WORK.
12. MAKE PROVISIONS FOR SAFE DELIVERY AND SECURE STORAGE OF MATERIALS. COORDINATE WITH OWNER.
13. **WARRANTY**
- A. PROVIDE FOR THE OWNER A ONE-YEAR (FROM THE DATE OF FINAL ACCEPTANCE) WARRANTY OF ELECTRICAL EQUIPMENT AND SYSTEMS PROVIDED UNDER THIS CONTRACT. DEFECTIVE EQUIPMENT OR MATERIALS WHICH APPEAR DURING THE WARRANTY PERIOD SHALL BE REPLACED OR REPAIRED AT THE ELECTRICAL CONTRACTOR'S IN A TIMELY FASHION AND AT NO ADDED COST.
14. **EQUIPMENT**
- A. PROVIDE EQUIPMENT AND ACCESSORIES NECESSARY WHETHER SPECIFICALLY STATED OR NOT TO MAKE THE REQUIRED ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL.
- B. EQUIPMENT PROVIDED SHALL BE NEW EXCEPT AS OTHERWISE STATED ON THE DRAWINGS. EQUIPMENT PROVIDED SHALL BE LISTED UNDER SUCH STANDARDS EXIST FOR THE TYPE OF EQUIPMENT FURNISHED AND ACCEPTABLE FOR INSTALLATION BY THE APPLICABLE AUTHORITY. EQUIPMENT FURNISHED SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.
- C. SUBMIT MATERIALS LIST AND SHOP DRAWINGS FOR MAJOR EQUIPMENT PROPOSED FOR THIS WORK TO THE GENERAL CONTRACTOR FOR REVIEW. SUBMITTALS SHALL BE IN ACCORDANCE WITH THE GENERAL CONDITIONS AND SHALL BEAR THE APPROVAL OF THE ELECTRICAL CONTRACTOR SHOWING THAT HE HAS REVIEWED THEM AND THAT THE PROPOSED MATERIALS ARE EQUIVALENT TO OR BETTER THAN THE SPECIFIED MATERIALS AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.
- D. MAINTAIN NEC ARTICLE 110 MINIMUM WORKING SPACE AND DEDICATED EQUIPMENT SPACE REQUIREMENTS. THESE SAME CLEARANCES SHALL BE MAINTAINED AT ELECTRICAL EQUIPMENT LIKELY TO REQUIRE ADJUSTMENT, OBSERVATION OR OPERATION WHILE ENERGIZED, SUCH AS DISCONNECT SWITCHES, FOR EXAMPLE.
- E. CONFIRM THAT ACCESS, EASE AND DOOR HARDWARE TO / FROM ELECTRICAL EQUIPMENT COMPLIES WITH NEC AS APPLICABLE.
15. **HAZARDOUS AREAS**
- A. PROVIDE COMPONENTS RATED FOR HAZARDOUS AREAS INDICATED ON DRAWINGS.
16. **OUTDOOR AREAS**
- A. PROVIDE NEMA 4B ENCLOSURES.
17. **CONDUCTORS**
- A. MINIMUM SIZE #12 AWG EXPOSED FOR CONTROL CIRCUITS WHICH MAY BE #14 AWG OR SIGNAL CIRCUITS WHICH SHALL BE AS INDICATED. CONDUCTORS SHALL BE COPPER. INCREASE CONDUCTOR SIZE AS NECESSARY TO LIMIT BRANCH CIRCUIT VOLTAGE DROP TO 3% AND FEEDER VOLTAGE DROP TO 3%.
- B. HOMERUNS SHALL BE #10 AWG STRAPPED LON. WIRING THROUGH #10 AWG SHALL BE SOLID. LARGER THAN #10 SHALL BE COMPENSATED.
- C. SPICES FOR #8 AWG AND SMALLER CONDUCTORS: WIRE OR WIRE NUTS.
- D. FEEDERS AND OTHER WIRING NO. 4 AWG AND LARGER, TYPE THHN.
- E. OTHER WIRING NO. 6 AWG AND SMALLER, TYPE THHN.
- F. WIRING IN HIGH TEMPERATURE AREAS SHALL BE RATED 150 DEGREES C AND BE A TYPE ACCEPTED BY LOCAL CODE.
- G. COLOR CODING: WIRING FOR CONTROL SYSTEMS TO BE INSTALLED IN CONJUNCTION WITH MECHANICAL AND MISCELLANEOUS EQUIPMENT SHALL BE COLOR CODED IN ACCORDANCE WITH THE WIRING DIAGRAMS FURNISHED WITH THE EQUIPMENT. BRANCH CIRCUIT WIRING, INCLUDING CIRCUITS TO MOTORS AND FEEDERS SHALL BE COLORED BY LINE OR PHASE AS FOLLOWS:
- H. WIRE NO. 2 AWG AND SMALLER SHALL BE FACTORY COLOR CODED. WIRE NO. 1 AWG AND LARGER MAY BE COLOR CODED BY FIELD PANTHONY OR COLOR TAPING OF SIX INCH (5") LENGTH AT ACCESSIBLE OR EXPOSED LOCATIONS, INCLUDING TERMINATIONS.
- 120/208 VOLTS
A = BLACK
B = RED
C = BLUE
NEUTRAL = WHITE
GROUND = GREEN
SWITCH TRAVELERS = PINK
- 277/480 VOLTS
A = BROWN
B = ORANGE
C = YELLOW
NEUTRAL = GREY
GROUND = GREEN YELLOW STRIPES
SWITCH TRAVELERS = PINK
1. **IMPACTITY: WIRING IMPACTITY SHALL BE IN ACCORDANCE WITH NEC AS APPLICABLE. UNLESS NOTED OTHERWISE, CIRCUITS RATED BELOW 100 AMP AND WIRING BASED ON 75 DEGREES C TEMPERATURE RISE. CIRCUITS RATED 100 AMP AND GREATER SHALL HAVE WIRING BASED ON 75 DEGREES C TEMPERATURE RISE.**

2. **OUTLETS**
- A. 4" SQUARE, ZINC COATED SHEET STEEL BOXES.
- B. PROVIDE 36" NO-BOLT FIXTURE STUDS.
- C. PROVIDE COVERS SET TO COME FLUSH WITH FINISH WALLS.
- D. UTILITY OR SECTIONAL SWITCH BOXES ONLY WHEN PERMITTED.
3. **DEVICES**
- A. DEVICE COLORS SHALL BE WHITE.
- B. SPECIFICATION GRADE RECEPTACLES, EQUAL TO HUMIBELL 592Z NEMA 5-15R, RESISTANCE TO CORROSION, AND PROHIBITED CONDUCTIVE DEVICES SHALL BE PERMANENTLY MARKED.
- C. A.C. QUET OPERATING TYPE SWITCHES EQUAL TO HUMIBELL C510 SERIES, RATED 15A, 120V.
- D. DEVICE PLATES SHALL BE NYLON, COLOR TO MATCH DEVICES.
- E. EXISTING DEVICES TO REMAIN IN VISIBLE LOCATIONS SHALL BE REPLACED WITH WHITE DEVICES AND PLATES. FIELD VERIFY REQUIREMENTS FOR EXISTING DEVICES.
4. **LIGHTING**
- A. PROVIDE NEW LIGHTING FIXTURES COMPLETE WITH LAMPS, DRIVERS, REFLECTORS, LOUVERS, STEM HANDLES, ETC., AND AS DESCRIBED ON THE DRAWINGS AS REQUIRED FOR A COMPLETE INSTALLATION.
- B. PROVIDE AND THE SPECIFIED MANUFACTURER AND MODEL NUMBER OF LIGHT FIXTURES AND LAMPS AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE AND/OR DRAWINGS. PROVIDE ADEQUATE INFORMATION ON THE PROJECT SITE TO THE SPECIFIED LIGHT NO LESS THAN THREE (3) DAYS PRIOR TO BID DATE. PROVIDE EXCEPTIONS AND, IF REQUESTED, PROVIDE CUT SHEET AND PHOTOMETRICS.
- C. SUBMITTALS NOT AS SPECIFIED AND PROVIDED AFTER BID WITHOUT PRIOR APPROVAL WILL NOT BE ACCEPTED FOR REVIEW. PROVIDER OF CONTRACT MANUFACTURERS AND EXCEPTIONS TO FIXTURE SCHEDULE, IF APPROVED, WILL NOT RELIEVE ELECTRICAL CONTRACTOR OF RESPONSIBILITY FOR FIXTURE QUALITY, PHOTOGRAPHIC PERFORMANCE AND OWNER SATISFACTION. SUCH SITUATION SHALL BE CORRECTED AT ELECTRICAL CONTRACTOR'S EXPENSE AND AT OWNER'S SATISFACTION.
- D. CLOSELY COORDINATE ARCHITECTURAL, REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURES. COORDINATE WITH ARCHITECTURAL CONTRACTOR FOR INSTALLATION. CONFLICTS PERTAINING TO THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR ARCHITECT.
- E. EXIT AND EMERGENCY LIGHTS SHALL CONFORM WITH LIFE SAFETY CODE AND LOCAL CODE REQUIREMENTS. PROVIDE UNLIT SWITCHES CONDUCTOR TO FIXTURES EQUIPPED WITH EMERGENCY BATTERY.
- F. INSTALL GROUND CONDUCTORS IN CONDUIT.
- G. BOND THE SERVICE EQUIPMENT TO BUILDING STEEL, CONCRETE ENCASED ELECTRODES, UNDERGROUND METAL PIPING, DRIVEN ELECTRODE, AND OTHER AVAILABLE GROUNDING ELECTRODES PER ARTICLE 250.
5. **BRANCH CIRCUIT PANELBOARDS**
- A. PROVIDE DEAD-FRONT, CIRCUIT BREAKER TYPE PANELS WITH THE SIZE AND NUMBER OF BRANCHES INDICATED. BREAKERS SHALL BE THERMAL MAGNETIC TYPE, TYPE EMPLOYING QUICK-MAKE AND QUICK-BREAK MECHANISMS FOR MANUAL OPERATION AS WELL AS AUTOMATIC OPERATION. AUTOMATIC TRIPPING SHALL BE INDICATED BY THE BREAKER HANDLE ASSUMING A DISTINCTIVE POSITION FROM THE MANUAL, "ON" AND "OFF".
- B. PANELBOARDS SHALL BE DOOR-IN-DOOR TYPE, UNLESS INDICATED OTHERWISE.
- C. SPACES SHALL BE FULLY EQUIPPED.
- D. PANELBOARDS SHALL HAVE A GROUNDING LUG FOR THE EQUIPMENT GROUNDING SYSTEM.
- E. PANELBOARDS SHALL BE RATED AND CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY AS FOLLOWS, WHERE INDICATED OR REQUIRED PROVIDE HIGHER RATED UNITS.
- 120/240 VOLT, 22,500 AMPERES
277/480 VOLT, 25,000 AMPERES
- F. PANELBOARDS SHALL BE A MINIMUM TWENTY INCHES (20") WIDE (BOK).
- G. BUSES SHALL BE COPPER.
- H. ACCEPTABLE MANUFACTURERS: OUTLER HAMMER, GENERAL ELECTRIC, SIEMENS, SQUARE D.
- I. PROVIDE PRINTED PANELBOARD DIRECTORIES TO REFLECT ACTUAL EQUIPMENT INSTALLED.
6. **SAFETY AND DISCONNECT SWITCHES**
- A. PROVIDE ENCLOSED, FUSIBLE OR NON-FUSIBLE SAFETY SWITCHES WHERE INDICATED AND HEREIN SPECIFIED. SAFETY SWITCHES SHALL BEAR THE UL LABEL AND EACH ENCLOSURE SHALL BE THE NEMA TYPE SUITABLE FOR THE SURROUNDING AREA AND CONDITIONS. SWITCHES SHALL BE MINIMUM HEAVY DUTY, HORSEPOWER RATED, AND SHALL HAVE QUICK-MAKE AND QUICK-BREAK MECHANISMS. SWITCHES USED ON MOTOR CIRCUITS SHALL HAVE ADEQUATE HORSEPOWER RATINGS FOR THE MOTORS SERVED.
- B. SAFETY SWITCHES EMPLOYED AS MOTOR DISCONNECT DEVICES OR WHERE OTHERWISE INDICATED AND AS REQUIRED SHALL BE OF THE FUSIBLE TYPE FOR REJECTION TYPE FUSES.
- C. HEAVY DUTY INDUSTRIAL TYPE SAFETY SWITCHES SHALL BE USED AND SHALL BE HORSEPOWER RATED WITH QUICK-MAKE, QUICK-BREAK MECHANISMS AND INTERLOCKED SWITCHES.
- D. SWITCHES SHALL BE AS MANUFACTURED BY OUTLER HAMMER, GENERAL ELECTRIC, SQUARE D, OR SIEMENS, AND SWITCHES PROVIDED SHALL BE BY THE SAME MANUFACTURER.
7. **FUSES**
- A. FUSES SHALL BE AS MANUFACTURED BY BUSSMANN UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- B. FUSES FOR APPLICATION AT UNDER 600 VOLTS, AND RATED AT 600 AMPS OR LESS, SHALL BE AS FOLLOWS:
- FOR FUSES IN THE MAIN SERVICE EQUIPMENT, EXCEPT FOR MOTOR CIRCUITS, PROVIDE CURRENT LIMITING, 200,000 RMS AMPERES SYMMETRICAL INTERRUPTING CAPACITY, REJECTION TYPE, BUSSMANN LMTIRON OR AS ACCEPTED.
- C. FOR OTHER FUSES, PROVIDE REJECTION TYPE WITH 200,000 RMS AMPERES SYMMETRICAL INTERRUPTING CAPACITY, BUSSMANN FUSETRON, OR AS ACCEPTED.
- D. CIRCUIT FUSES SHALL BE BUSSMANN ONE-TIME NONRENEWABLE FUSES.

8. **CONDUIT/RACEWAYS/EXCUTION**
- A. CONDUCTORS SHALL BE ENCLOSED BY CONDUIT SIZED IN ACCORDANCE WITH THE NEC. MINIMUM 1/2" EIGHTY-FIVE (85) FACTORY FURNISHED LIGHTING FIXTURE FLEXIBLE CONDUIT MAY BE 3/8" WHICH INCLUDES STARTER, DO NOT PROVIDE STARTER. MOTOR CONNECTIONS SHALL BE MADE WITH FLEXIBLE CONDUIT.
- B. RIGID METAL CONDUIT (RMC) SHALL BE UTILIZED FOR ABOVE AND BELOW GRADE APPLICATIONS IN ACCORDANCE WITH ARTICLES 344 AND 350 OF THE NATIONAL ELECTRICAL CODE. COUPLINGS SHALL BE THREADED.
- C. PVC-COATED RIGID NONMETALLIC CONDUIT AND HOPE SHALL BE PERMITTED FOR BELOW GRADE OR CONCRETE CAST IN PLACE APPLICATIONS ABOVE GRADE. BELOW TRANSITIONS TO ABOVE GRADE, 18" OUT-OF-FLY OF FLOOR FINISH SHALL BE USED. PROVIDE EQUIPMENT GROUNDING CONDUIT FOR RUNS OF NONMETALLIC CONDUITING, UNLESS OTHERWISE SPECIFIED IN THE DRAWINGS.
- D. ELECTRICAL METALLIC TUBING (EMT) SHALL BE UTILIZED FOR DRY "FINISHED" SPACES ABOVE GRADE OR ABOVE FLOOR APPLICATIONS IN ACCORDANCE WITH ARTICLE 360 OF THE NATIONAL ELECTRICAL CODE. SET SCREW COUPLINGS ARE NOT ACCEPTABLE.
- E. FLEXIBLE METAL CONDUIT SHALL BE UTILIZED FOR CONNECTIONS TO VIBRATING EQUIPMENT, SUCH AS MOTORS (MINIMUM OF 2-1/2" MAXIMUM OF 3-1/2") CONDUIT TO LAY-IN TYPE LIGHT FIXTURES. USE LIQUID-TIGHT FLEXIBLE METAL CONDUIT IN WET OR MOST SPACES.
- F. EXPOSED CONDUIT SHALL BE ROUTED PARALLEL OR PERPENDICULAR WITH THE BUILDING WALLS. SUPPORT CONDUIT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
- G. CONDUIT AND TUBING FITTINGS SHALL BE COMPATIBLE WITH THE TYPE OF RACEWAY USED. PROPERLY SIZED PER NEC AND QUALIFIED FLEXIBLE.
- H. SUPPORTS: PROVIDE SUPPORTS FOR MATERIAL AND EQUIPMENT. METALLIC SUPPORT MATERIALS SHALL BE GALVANIZED. HARDWARE SHALL BE GALVANIZED.
9. **BONDING / GROUNDING EXECUTION**
- A. SERVICE EQUIPMENT, CONDUIT SYSTEMS, SUPPORTS, CABINETS, EQUIPMENT, TRANSFORMERS, FIXTURES, THE GROUNDING CIRCUIT CONDUCTOR, ETC., SHALL BE BONDING AND GROUNDING IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE.
- B. PROVIDE BONDING AMPERES AND WIRE, GROUNDING BUSINGS, CLAMPS, ETC., AS INDICATED ON THE DRAWINGS.
- C. PROVIDE THREADED CONDUIT TO PREPARE CONDUITS TO PROVIDE CONDUITS TO THE GROUND ELECTRODE SYSTEM.
- D. GROUND CONNECTIONS SHALL HAVE CLEAN CONTACT SURFACES, TIGHTENED AND INDICATED WHILE BOLTING.
- E. INSTALL GROUND CONDUCTORS IN CONDUIT.
- F. BOND THE SERVICE EQUIPMENT TO BUILDING STEEL, CONCRETE ENCASED ELECTRODES, UNDERGROUND METAL PIPING, DRIVEN ELECTRODE, AND OTHER AVAILABLE GROUNDING ELECTRODES PER ARTICLE 250.
10. **PANELBOARD EXECUTION**
- A. INSTALL PANELBOARDS WITH THE TOP OF THE TRIM SLAB, THREE-INCHES (3") FROM THE FINISHED FLOOR.
- B. FIELD CHECK PANELBOARD LOADING AND RECONNECT CIRCUITS AS REQUIRED TO PROVIDE ALLOWED PHASE AND LINE LOADS.
11. **MECHANICAL EQUIPMENT WIRING AND CONNECTIONS**
- A. MECHANICAL EQUIPMENT MOTORS AND CONTROLS ARE FURNISHED WITH MECHANICAL EQUIPMENT, UNLESS NOTED OTHERWISE.
- B. PROVIDE FEEDER CIRCUITS TO MECHANICAL EQUIPMENT AND MAKE CONNECTIONS.
- C. PROVIDE SAFETY SWITCHES AND/OR THERMAL OVERLOAD SWITCHES AS REQUIRED.
- D. PROVIDE POWER (LINE VOLTAGE) WIRING FOR MECHANICAL EQUIPMENT AND MAKE CONNECTIONS EXCEPT FOR TEMPERATURE CONTROL EQUIPMENT, WHICH WILL BE WIRING BY MECHANICAL CONTRACTOR.
- E. FURNISH, SET IN PLACE, AND WIRE, EXCEPT AS INDICATED, HEATING, VENTILATING, AIR CONDITIONING, FURNACE, FIRE PROTECTION, MOTORS AND CONTROLS IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S INSTRUCTIONS. CALLING OUT COORDINATE WITH WORK PERFORMED UNDER THE MECHANICAL DIVISION OF THESE SPECIFICATIONS.
- F. HEATER UNITS IN MOTOR STARTERS SHALL BE SIZED FOR APPROXIMATELY ONE HUNDRED FIFTY PERCENT (150%) OF FULL LOAD MOTOR CURRENT. CHECK AND COORDINATE THERMAL PROTECTIVE DEVICES WITH THE EQUIPMENT THEY PROTECT.
- G. PROVIDE FOR EACH MOTOR, ONE (1/2) HORSEPOWER AND BELOW, A HORSEPOWER RATED DISCONNECT SWITCH WITH THERMAL OVERLOAD PROTECTION UNLESS INTEGRALLY PROVIDED WITH THE MOTOR. THERMAL OVERLOAD SWITCHES FOR SINGLE PHASE MOTORS SHALL BE ALLEN-BRADLEY BULLETIN 600 OR ACCEPTABLE ALTERNATIVE. SIZE HEATER UNITS FOR APPROXIMATELY ONE HUNDRED FIFTY PERCENT (150%) OF FULL LOAD MOTOR CURRENT.
- H. MISCELLANEOUS EQUIPMENT: WHERE OUTLETS ARE INDICATED FOR MISCELLANEOUS EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL, PROVIDE WIRE, CONDUIT, ETC., AND MAKE CONNECTIONS, UNLESS OTHERWISE INDICATED. REFER TO THE MECHANICAL DRAWINGS AND PLANS FOR EQUIPMENT, INCLUDING INTER-LOCK SWITCHING, ETC. PROVIDE WIRING TO CONDUIT, OUTLETS AND PROVIDE FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT.
12. **SPECIAL SYSTEMS**
- A. PROVIDE SPECIAL SYSTEMS AS SPECIFIED ON THE DRAWINGS INCLUDING REQUIRED ACCESSORIES TO MAKE THE SYSTEM COMPLETE AND OPERATIONAL. SPECIAL SYSTEMS SHALL BE INSTALLED AND CONNECTED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. PROVIDE INSTRUCTIONAL DEMONSTRATION FOR THE OWNER PRIOR TO FINAL ACCEPTANCE.

13. **ELECTRIC MOTOR AND EQUIPMENT WIRING**
- A. PROVIDE A COMPLETE BRANCH CIRCUIT WIRING, STARTER AND DISCONNECT SWITCH FOR MOTOR DRIVEN EQUIPMENT. WHEN MOTOR DRIVEN EQUIPMENT IS PROVIDED WITH PACKAGE CONTROL PANEL, WHICH INCLUDES STARTER, DO NOT PROVIDE STARTER. MOTOR CONNECTIONS SHALL BE MADE WITH FLEXIBLE CONDUIT.
14. **GROUNDING AND BONDING**
- A. GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH ARTICLE 250 OF THE LATEST ADOPTED EDITION OF THE NEC.
- B. EQUIPMENT, MOTOR, FIXTURE, RECEPTACLE, OR DEVICE TO WHICH CURRENT CARRYING CONDUCTORS ARE CONNECTED SHALL HAVE A SEPARATE GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, TO BE INSTALLED IN THE GROUNDING AND CONNECTED TO THE DEVICE.
- C. GROUNDING AND BONDING CONDUCTORS SHALL BE SIZED AS INDICATED BY THE CODE AND SHALL BE TWIN-TWISTED IN BRASS COLOR JACKET.
- D. ELECTRICAL EQUIPMENT ENCLOSURES AND CONDUCTOR ENCLOSURES (JUNCTION BOXES) SHALL BE GROUNDING.
- E. GROUNDING SYSTEM SHALL BE TESTED AFTER INSTALLATION AND SHALL HAVE A MEASURED RESISTANCE TO EARTH OF LESS THAN 5 OHMS.
15. **CONDUIT/RACEWAY**
- A. USE THREADED GALVANIZED RIGID STEEL CONDUIT FOR CONDUITS LENGTHS ABOVE GRADE, IN EXTERIOR LOCATIONS, HAZARDOUS LOCATIONS, AND INTERIOR LOCATIONS BELOW 10 FEET TOTAL LENGTH SHALL BE A MINIMUM #10 AWG TO THE FIRST OUTLET.
- B. EVERY WIRE SHALL BE LABELED AT EVERY TERMINATION AND ACCESSIBLE LOCATION. USE PRODUCTS BY IDEAL OR EQUIVALENT TUBULAR WIRE ACCESSORIES.
- C. COMMUNICATIONS AND SYSTEM WIRING: PROVIDE NECESSARY PATHWAY FOR WIRING, BONES AND RELATED ACCESSORIES REQUIRED FOR COMMUNICATIONS AND OTHER SYSTEMS INCLUDED. OWNER TO PROVIDE COMMUNICATIONS CABLEING.
24. **EQUIPMENT CONNECTIONS**
- A. MAKE POWER CONNECTIONS AS INDICATED ON THE PLANS AND AS REQUIRED TO MEET INTENT OF THE PROJECT SCOPE.
- B. OBTAIN RULING INFORMATION FROM OTHER CONTRACTORS AND VERIFY THE ACTUAL PURCHASED EQUIPMENT PRIOR TO INSTALLATION.
- C. VERIFY THE THERMAL CONDITION OF THE EQUIPMENT BASED ON NAMEPLATE DATA AND CONNECT AS THE LISTING REQUIREMENTS ARE STATED UNDER THE SPECIFIED MATERIALS.
- D. ALL POWER AND CONTROL CIRCUITS FOR ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS ARE BASED ON THE DESIGN AS INDICATED ON THE CONTRACT DOCUMENTS. VERIFY PURCHASED EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTION WITH THE RESPONSIBLE CONTRACTOR OR VENDOR PRIOR TO ELECTRIFYING IT. ROUGH-IN, DEVIATIONS IN EQUIPMENT ROUGH-IN REQUIREMENTS FROM THE CONTRACT DOCUMENTS SHALL BE CONSIDERED A COORDINATING ITEM THAT THE ELECTRICAL CONTRACTOR SHALL DISCUSS WITH THE OTHER TRADES INVOLVED.
25. **APPARATUS IDENTIFICATION**
- A. PANELBOARDS, LOAD CENTERS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, STARTERS AND OTHER APPARATUS USED FOR THE OPERATION AND CONTROL OF CIRCUITS, APPLIANCES AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC DESCRIPTIVE NAMEPLATES MOUNTED ON THE APPARATUS USING PERMANENT CONTACT CEMENT.
- B. TRANSFORMERS SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC DESCRIPTIVE NAME PLATES MOUNTED ON THE APPARATUS USING PERMANENT CONTACT CEMENT.
- C. FURNISH AND INSTALL ARC FLASH, SHORT CIRCUIT AND SIMILAR WARNING LABELS AS REQUIRED.
26. **SUBGE PROTECTION DEVICES (SPD)**
- A. PROVIDE SPDs WHERE INDICATED ON THE DRAWINGS. RATINGS SHALL CONFORM TO NEC. PROVIDE SERVICE, WIRING AND INSTALLATION METHOD PER MANUFACTURER'S RECOMMENDATIONS.

21. **SEISMIC RESTRAINTS**
- A. PROVIDE SEISMIC RESTRAINTS FOR ELECTRICAL EQUIPMENT AND SYSTEM COMPONENTS AS REQUIRED BY LOCAL CODES.
22. **TESTING**
- A. RING OUT CONDUCTORS TO ASSURE CONTINUITY.
- B. MEASURE POWER CONDUCTORS: RECORD RESULTS. REMOVE AND REPLACE WIRE SHOWING SIGNIFICANTLY LOWER RESISTANCE IN COMPARISON TO LIKE WIRING.
- C. CONDUCT COMPLETE SYSTEM FUNCTIONAL TESTS TO ENSURE PROPER OPERATION. RECORD RESULTS AND INVITE WITNESSES BY OWNER / A / ENGINEER AS APPROPRIATE.
- D. THE ABOVE REPRESENTS MINIMUM REQUIREMENTS. ANY INCLUSION OF TESTS IF / AS NECESSARY SHALL BE AT APPROPRIATE REQUIREMENTS.
23. **WIRING**
- A. A COMPLETE SYSTEM OF CONDUCTORS SHALL BE INSTALLED FOR EACH BRANCH CIRCUIT, BRANCHES AND CONDUITS AS INDICATED ON THE PLANS.
- B. NO WIRE IS TO BE INSTALLED IN RACEWAY UNITS THE ENTIRE RACEWAY SYSTEM IS COMPLETE AND THEN ONLY WITH THE USE OF AN APPROVED WIRING LUBRICANT.
- C. BRANCH CIRCUIT BUSES ARE NOTED ON THE PLANS AND SHALL BE CONTINUOUS WITHOUT REDUCTION IN SIZE THROUGHOUT THEIR LENGTH BETWEEN DEVICES, EXCEPT WHERE CONNECTING TO FIXTURES. BRANCH CIRCUITS EXCEEDING 10 FEET IN TOTAL LENGTH SHALL BE A MINIMUM #10 AWG TO THE FIRST OUTLET.
- D. EVERY WIRE SHALL BE LABELED AT EVERY TERMINATION AND ACCESSIBLE LOCATION. USE PRODUCTS BY IDEAL OR EQUIVALENT TUBULAR WIRE ACCESSORIES.
- E. COMMUNICATIONS AND SYSTEM WIRING: PROVIDE NECESSARY PATHWAY FOR WIRING, BONES AND RELATED ACCESSORIES REQUIRED FOR COMMUNICATIONS AND OTHER SYSTEMS INCLUDED. OWNER TO PROVIDE COMMUNICATIONS CABLEING.
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- D. ALL POWER AND CONTROL CIRCUITS FOR ELECTRICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS ARE BASED ON THE DESIGN AS INDICATED ON THE CONTRACT DOCUMENTS. VERIFY PURCHASED EQUIPMENT THAT REQUIRES ELECTRICAL CONNECTION WITH THE RESPONSIBLE CONTRACTOR OR VENDOR PRIOR TO ELECTRIFYING IT. ROUGH-IN, DEVIATIONS IN EQUIPMENT ROUGH-IN REQUIREMENTS FROM THE CONTRACT DOCUMENTS SHALL BE CONSIDERED A COORDINATING ITEM THAT THE ELECTRICAL CONTRACTOR SHALL DISCUSS WITH THE OTHER TRADES INVOLVED.
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- B. TRANSFORMERS SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED LAMINATED PLASTIC DESCRIPTIVE NAME PLATES MOUNTED ON THE APPARATUS USING PERMANENT CONTACT CEMENT.
- C. FURNISH AND INSTALL ARC FLASH, SHORT CIRCUIT AND SIMILAR WARNING LABELS AS REQUIRED.
26. **SUBGE PROTECTION DEVICES (SPD)**
- A. PROVIDE SPDs WHERE INDICATED ON THE DRAWINGS. RATINGS SHALL CONFORM TO NEC. PROVIDE SERVICE, WIRING AND INSTALLATION METHOD PER MANUFACTURER'S RECOMMENDATIONS.

E

D

C

B

A

LIGHTING FIXTURE SCHEDULE					
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	MOUNTING	VOLTS
A1	LITHONIA	UPIT-L96-12000LM-SEF-MVOLT-G210-50K-80CRI	LED LOW BAY	SUSPENDED 21' AFF	277 V
A2	LITHONIA	CLX-L48-4000LM-SEF-MDL-MVOLT-G210-50K-80CRI-WH	LED LINEAR FIXTURE	SURFACE	<varies>
E1	LITHONIA	UPIT-L96-12000LM-SEF-MVOLT-G210-50K-80CRI (ILB-CP10-HE-A)	LED LOW BAY WITH EXTERNAL BATTERY BACKUP	SUSPENDED 21' AFF	277 V
E2	LITHONIA	CLX-L48-4000LM-SEF-MDL-MVOLT-G210-50K-80CRI-E10W-WH	LED LINEAR FIXTURE WITH INTEGRAL BATTERY BACKUP	SURFACE	<varies>
P1	LITHONIA	RSXF4-LED-P3-50K-120/277	LED AREA LIGHT ON POLE	50' POLE MOUNT	277 V
W1	LITHONIA	TWR2-LED-ALO-SW2-UVOLT-PE-DOBTXD	LED WALL PACK	WALL MOUNT 9'-2" AFF	277 V
W2	LITHONIA	WST-LED-P1-50K-VW-MVOLT-PIR-DOBTXD	LED WALL PACK	WALL MOUNT 7'-10" AFF	277 V
W3	COOPER	AXCS4ARL	LED WALL PACK	WALL MOUNT 8'-6" AFF	277 V
X1	LITHONIA	LOM-S-W-3-G-120/277-EL N	LED EXIT SIGN WITH BATTERY BACKUP	WALL MOUNT 6" ABOVE DOOR FRAME	277 V

SITE CONDUITS

GENERAL NOTES

1. PROVIDE PVC-COATED RIGID STEEL ELBOWS AND END-POINTS FOR UNDERGROUND CONDUITS.
2. MAINTAIN SEPARATION DISTANCE OF 12" BETWEEN POWER AND COMMUNICATIONS CONDUITS.

KEYNOTES

1. TRANSFORMER VAULT 2' x 4' x 4' (LOCATE 644.8L W/ Q2 CCP 514 COVER OR SIMILAR)
2. INTERCEPT EXISTING UNDERGROUND POWER CONDUIT FROM PAD 3B. PROVIDE NEW MEDIUM VOLTAGE CONDUIT AND CONNECT TO EXISTING LOOP FED 34.8 KV WYE PRIMARY PAD MOUNTED TRANSFORMER 3M 3.5 AT PAD 3B.
3. REMOVE EXISTING ELECTRICAL EQUIPMENT AND VAULTS AND TURN OVER TO AAC. REMOVE CABLE BACK TO PAD MOUNTED TRANSFORMER AT PAD 3B. REMOVE EXISTING CONDUIT TO LOCATION SHOWN AND EXTEND TO NEW POWER CONEX BOX.
4. INTERCEPT EXISTING 4" UNDERGROUND COMMUNICATIONS CONDUITS FROM PAD 3B.
5. REMOVE ASSOCIATED ELECTRICAL EQUIPMENT, CONDUIT AND CABLES INCLUDING GROUNDING COUNTERPOISE WITH CONEX BOX. COMM CABLE WILL BE REMOVED BY AAC.
6. REMOVE EXISTING COMM CONDUIT TO LOCATION SHOWN AND EXTEND TO HUB CONEX BOX.
7. PROVIDE LIGHT FIXTURE TYPE W3 MOUNTED AT 8' ABOVE GRADE. SEE FUTURE SCHEDULE FOR FIXTURE TYPE.
8. PROVIDE QUANTE P012484/8 HANDHOLE WITH TRAFFIC RATED COVER, QUANTE P012484/017.
9. CONTROL LIGHTS WITH LIGHTING CONTROLLER CONNECTED TO PHOTOCELL AND TIMER SHOWN IN DETAIL. 1.0K DRAWING 5.05. LIGHTING CONTROLLER LOCATED IN POWER CONEX.
10. WX STATION AND ASSOCIATED CONDUITS TO BE INSTALLED BY AAC.
11. PROVIDE (2) 4" CONDUITS TO COMM ENCLOSURE. PROVIDE (4) 4" PVC COATED RIGID STEEL CONDUITS TURNED UP 4" AFF ADJACENT TO COMM ENCLOSURE.
12. FINAL CONDUIT SIZE AND QUANTITY SHALL BE DETERMINED BY THE ELECTRICAL SUBCONTRACTOR.
13. FINAL CONDUIT SIZE AND QUANTITY FROM EM 3-17 TO BERM WALL SHALL BE DETERMINED BY THE ELECTRICAL SUBCONTRACTOR.
14. FINAL CONDUIT SIZE AND QUANTITY FROM EM 3-18 TO BERM WALL SHALL BE DETERMINED BY THE ELECTRICAL SUBCONTRACTOR.

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ISSUE FOR CONSTRUCTION

DOCUMENT HISTORY	
1	08/2025 Revision 1

AREA 3 PAD D
NARROW CAPE, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



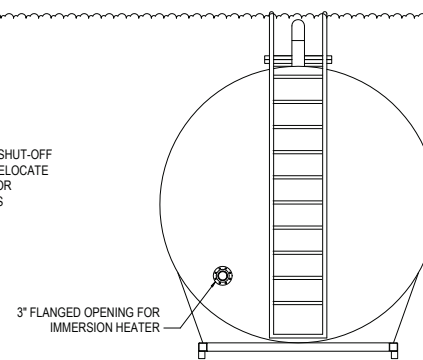
If this item has been electronically signed and sealed by the licensed professional named above using a digital signature and date. Printed copies of this document are not considered signed and sealed, and the signature must be verified on electronic copies.

402.0404.02 DESIGN
SUSAN M SCHILLER
AK 101052
DESIGNED BY
S SCHILLER
DRAWN BY
S SCHILLER
PROJECT NUMBER
C09729.001.00

DATE
05/08/26
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SITE PLAN

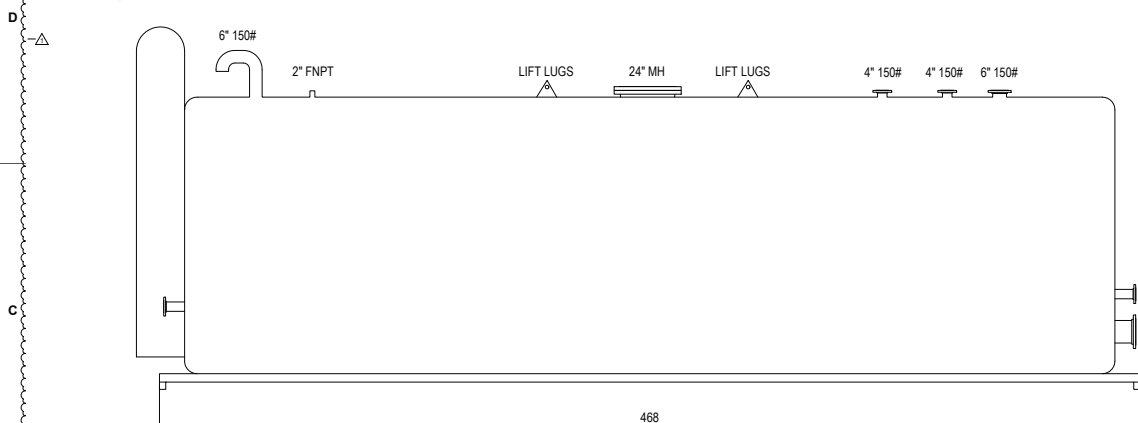
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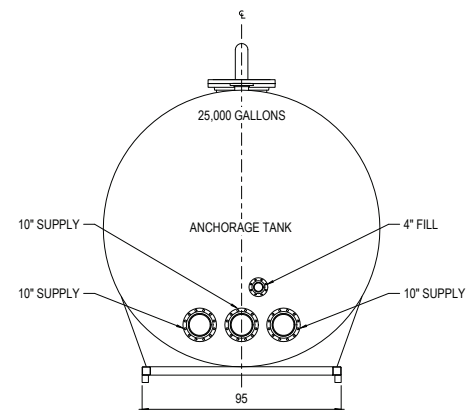


① 25,000 GALLON WATER STORAGE TANK - TOP

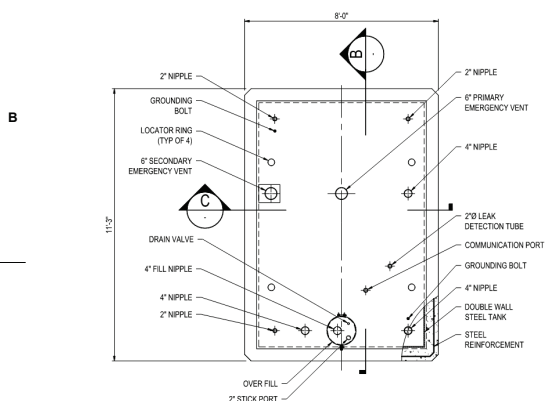
② 25,000 GALLON WATER STORAGE TANK - LEFT END



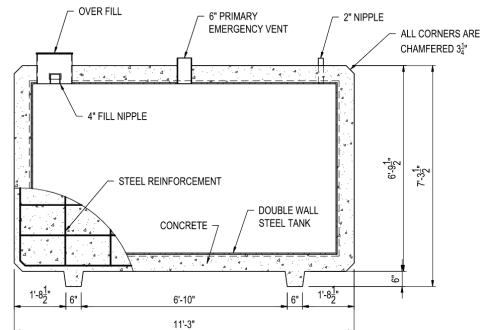
3 25,000 GALLON WATER STORAGE TANK - SIDE



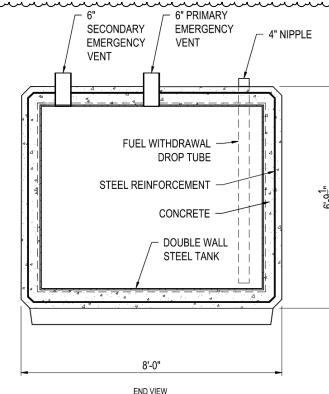
4 25,000 GALLON WATER STORAGE TANK - RIGHT END



5 FUEL TANK PLAN



⑥ FUEL TANK SECTION B



⑦ FUEL TANK SECTION C

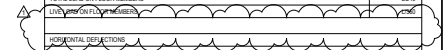


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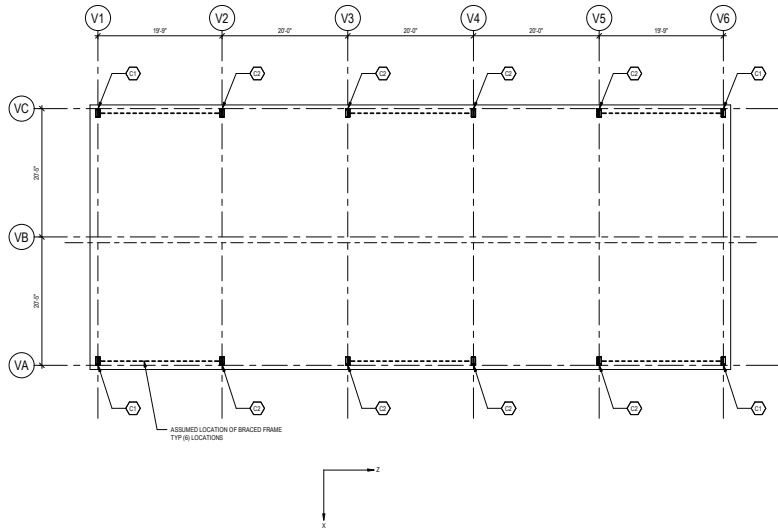
DOCUMENT HISTORY

NO.	REVISION
1	ISSUED FOR CONSTRUCTION

PRE-ENGINEERED METAL BUILDING DEFLECTION AND DRIFT LIMITS:	
VERTICAL DEFLECTIONS	
ROOF MEMBERS	
SNOW LOAD DEFLECTION FOR MEMBERS SUPPORTING NON-PLASTER CEILING	L/240
TOTAL LOAD DEFLECTION FOR MEMBERS SUPPORTING NON-PLASTER CEILING	L/180
SNOW LOAD DEFLECTION FOR MEMBERS NOT SUPPORTING CEILING	L/180
BLOW LOAD DEFLECTION FOR SECONDARY MEMBERS AT FORMED METAL ROOFING ONLY	L/120
TOTAL LOAD DEFLECTION FOR MEMBERS NOT SUPPORTING CEILING	L/120
TOTAL LOAD DEFLECTION AT FORMED METAL ROOF (WITH NO ADDITIONAL ROOF COVERING)	L/60
TOTAL LOAD DEFLECTION AT MEMBERS SUPPORTING MASONRY WALLS AND UNITS	L/60 ± 3/8"
DEAD LOAD DEFLECTION PRIOR TO CLADDING FOR SPANDRELS SUPPORTING CLADDING LOADS	3/8"
TOTAL DEAD LOAD DEFLECTION FOR SPANDRELS SUPPORTING CLADDING LOADS	L/480 ± 5/8"
0.5 PL OR 0.5 SL DEFLECTION FOR SPANDRELS AT PRECAST OR STONE PANELS AND AT GLAZING	L/360 ± 1/2"
TOTAL DEAD LOAD DEFLECTION FOR SPANDRELS SUPPORTING HEAVY CLADDING LOADS	L/480 ± 1/4"
1-2% BEAM DEAD LOAD INCLUDING MASONRY	
NOTES:	
1. STIFFER ROOF MEMBERS MAY BE REQUIRED TO SATISFY ROOF PONDING REQUIREMENTS. PRE-ENGINEERED METAL BUILDING DESIGNER SHALL MAINTAIN POSITIVE ROOF DRAINAGE UNDER (D+0.7'S) (D+5 PSF) LOAD COMBINATION.	
2. SPANDREL MEMBERS MAY REQUIRE DEFLECTION REQUIREMENTS. PRE-ENGINEERED METAL BUILDING DESIGNER SHALL COORDINATE VERTICAL DEFLECTION REQUIREMENTS WHERE STRUCTURAL MEMBERS INTERACT WITH ARCHITECTURAL ELEMENTS AND WHERE CLADDING WEIGHT EXCEEDS 25% OF THE TOTAL DEAD LOAD ON SPANDREL BEAM.	
ROOF MEMBERS	
TOTAL LOAD ON FLOOR MEMBERS	L/240
LIVE LOAD ON FLOOR MEMBERS	
HORIZONTAL DEFLECTIONS	
EXTERIOR WALLS WITH METAL PANELS SIDING AND NO INTERIOR D/P	L/60
EXTERIOR WALLS WITH FLEXIBLE FINISHED (D/P BOARD, METAL PANEL, ETC)	L/120
EXTERIOR WALLS WITH OTHER BRITTLE FINISHED (MASONRY, ETC)	L/240 ± 1/4"
EXTERIOR WALLS WITH PLASTER OR STUCCO FINISHED	L/360
NOTES:	
1. WIND LOAD - IBC 2012 OR LATER - 54" PLATE LEVEL COMPONENT AND CLADDING PRESSURES	
BUILDING DRIFT	
WIND DRIFT FOR FORMED METAL SIDED BUILDINGS	H/180
SEISMIC LOADS - STORY DRIFTS	H/180
NOTES:	
WIND LOAD - IBC 2012 OR LATER - 54" WIND FORCE RESISTING SYSTEM PRESSURES AS CALCULATED BY THE PRE-ENGINEERED METAL BUILDING DESIGNER (ADJUST FROM 91 YEAR WIND TO 10 YEAR WIND)	



E



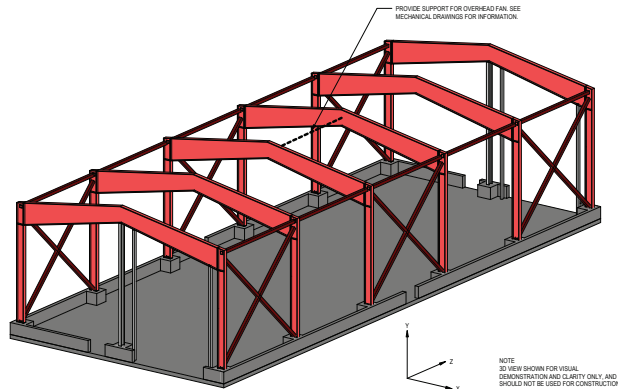
D

ESTIMATED COLUMN REACTIONS (KIPS, SERVICE LEVEL)															
COLUMN	DEAD LOAD			ROOF LIVE LOAD			SEISMIC (X DIR)			SEISMIC (Z DIR)			WIND (X DIR)		
	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z	X	Y	Z
VC	+1.0	+0.0	+0.0	+0.0	+0.0	+0.0	+12.0	+0.0	+0.0	+12.0	+0.0	+0.0	+10.0	+0.0	+0.0
VB	+2.0	+12.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0	+0.0

C

2 ASSUMED PEMB FOUNDATION LOADS
SCALE: NTS

B



1 ASSUMED PEMB FRAME LAYOUT
SCALE:

A

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



DESIGNED BY
BRIAN LEE SAYRE
ALASKA SE 215775

CHECKED BY
C. ALTINOK

PROJECT NUMBER
K. BANNISTER
C09729.001

DATE
05/08/2026

TITLE
PEMB
REQUIREMENTS

REVISIONS
S-007

FOR CONSTRUCTION

DOCUMENT HISTORY	
1	ISSUED REVISION 1

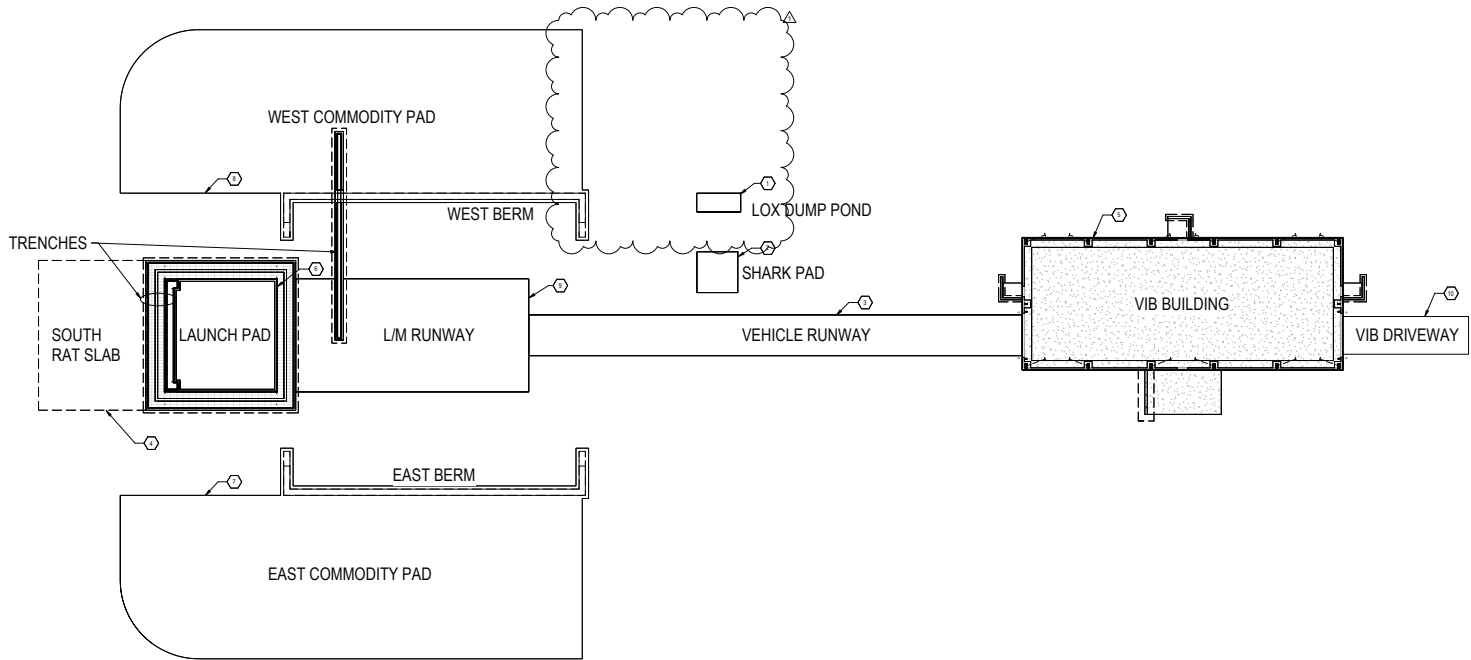
LEGEND:

NOTES:

- SEE SHEET SERIES S-00X FOR GENERAL NOTES AND ABBREVIATIONS.
- COORDINATE ALL WALL DIMENSIONS AND OPENING LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- COORDINATE ALL FLOOR PENETRATIONS FOR UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. REFER TO S-007 FOR FINISH REQUIREMENTS.
- COORDINATE SIZES AND LOCATIONS WITH MECHANICAL AND ELECTRICAL DRAWINGS AND MANUFACTURER INFORMATION. MECHANICAL/ELECTRICAL EQUIPMENT LOCATED ON ELEVATED SLAB SHALL BE PLACED ON STEEL SUPPORTS/RAILS.
- SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR EXTERIOR CONCRETE SUB-LOCATIONS, EXTENTS, SLOPES, CONTROL JOINT LOCATIONS AND ELEVATIONS.

KEY NOTES:

- LOX DUMP PER DETAIL 15-603
- SHARK PAD SEE EXTERIOR PAD DETAIL 405-903
- VEHICLE RUNWAY PER CIVIL
- SOUTH RAT SLAB PER S-103
- VIB BUILDING PER S-101
- LAUNCH PAD PER S-103
- EAST COMMODITY PAD PER S-101
- WEST COMMODITY PAD PER S-103
- L/M RUNWAY PER S-103
- VIB DRIVEWAY PER CIVIL



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

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



REGISTERED PROFESSIONAL ENGINEER
BRIAN LEE SAYRE
ALASKA SE 215775

DESIGNED BY
C. ALTINOK

CHECKED BY
K. BANNISTER

PROJECT NUMBER
C09729-001

DATE
05/08/2026

TITLE
SITE PLAN

REVISIONS

S-100



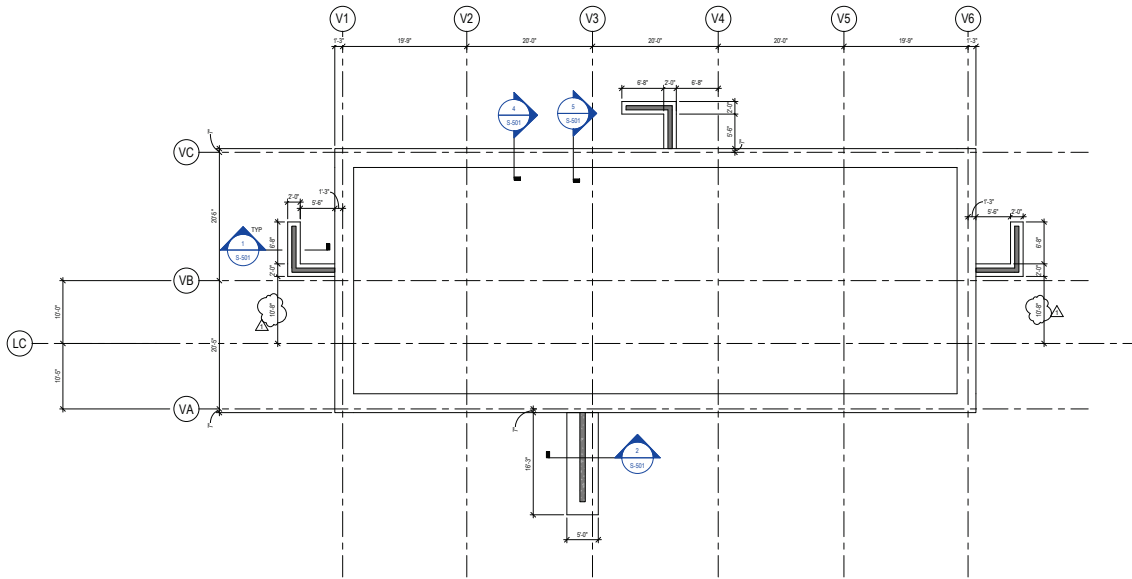
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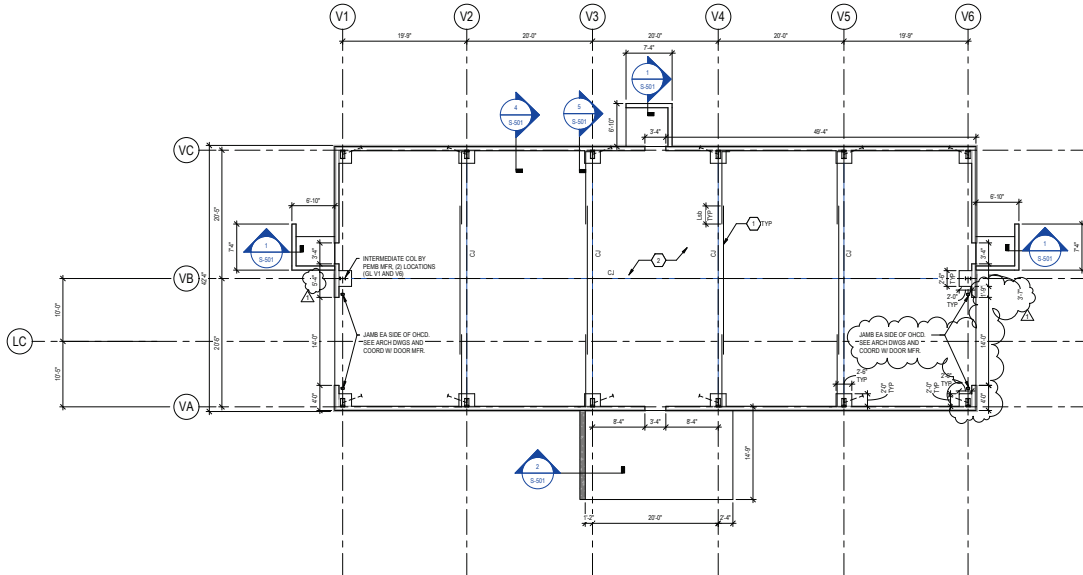
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B

A



1 VIB FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



2 VIB SLAB PLAN
SCALE: 1/8" = 1'-0"

LEGEND:

NOTES:

1. SEE SHEET SERIES S-00X FOR GENERAL NOTES, SPECIAL INSPECTIONS, AND ABBREVIATIONS.
2. COORDINATE ALL WALL DIMENSIONS AND OPENING LOCATIONS WITH ARCHITECTURAL DRAWINGS.
3. SEE ARCHITECTURAL DRAWINGS FOR EXTERIOR CONCRETE SLAB LOCATIONS, EXTENTS, SLOPES, CONTROL JOINT LOCATIONS AND ELEVATIONS.
4. COORDINATE ALL UNDER SLAB UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO POURING FOUNDATIONS AND SLAB. POINT-TO-POINT WALL FOUNDATION OR DROP FOUNDATIONS ARE NEEDED FOR UTILITIES ACCORDING TO DETAILS ON SHEET S-803.
5. PROVIDE HOUSING/KEEPING PADS FOR MECHANICAL AND ELECTRICAL EQUIPMENT AS REQUIRED ON SLAB ON GRADE. COORDINATE SIZES AND LOCATIONS WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND MANUFACTURER INFORMATION. SEE DETAIL ON SHEET S-803.
6. 1" SLAB ELEVATION = 0.0' UNO.
7. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL AND PLUMBING DRAWINGS. SLOPE FLOOR TO DRAIN.
8. COORDINATE LOCATIONS OF DERESSED SLABS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
9. COORDINATE ALL CURB DIMENSIONS WITH JAMB AND BASE PLATES. SEE CIVIL DWGS FOR ADDL INFO.

KEY NOTES:

1. 1/8" REINFORCEMENT BETWEEN PERM COLUMNS. HOOK ENDS INTO GRADE BEAM FOOTING PER S-801.
2. 1" SLAB ON GRADE REINFORCED W/ #5 @ 12" OC TAB E/W.



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FOR CONSTRUCTION

DOCUMENT HISTORY	
1	ISSUED REVISION 1

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



REGISTERED PROFESSIONAL ENGINEER
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ALASKA SE 215775

DESIGNED BY
C. ALTINOK
CHECKED BY
K. BANNISTER
PROJECT NUMBER
C09729.001

DATE
05/08/2026

VIB SLAB &
FOUNDATION
PLANS

ISSUED
S-101



FOR CONSTRUCTION

[illegible]

LEGEND:

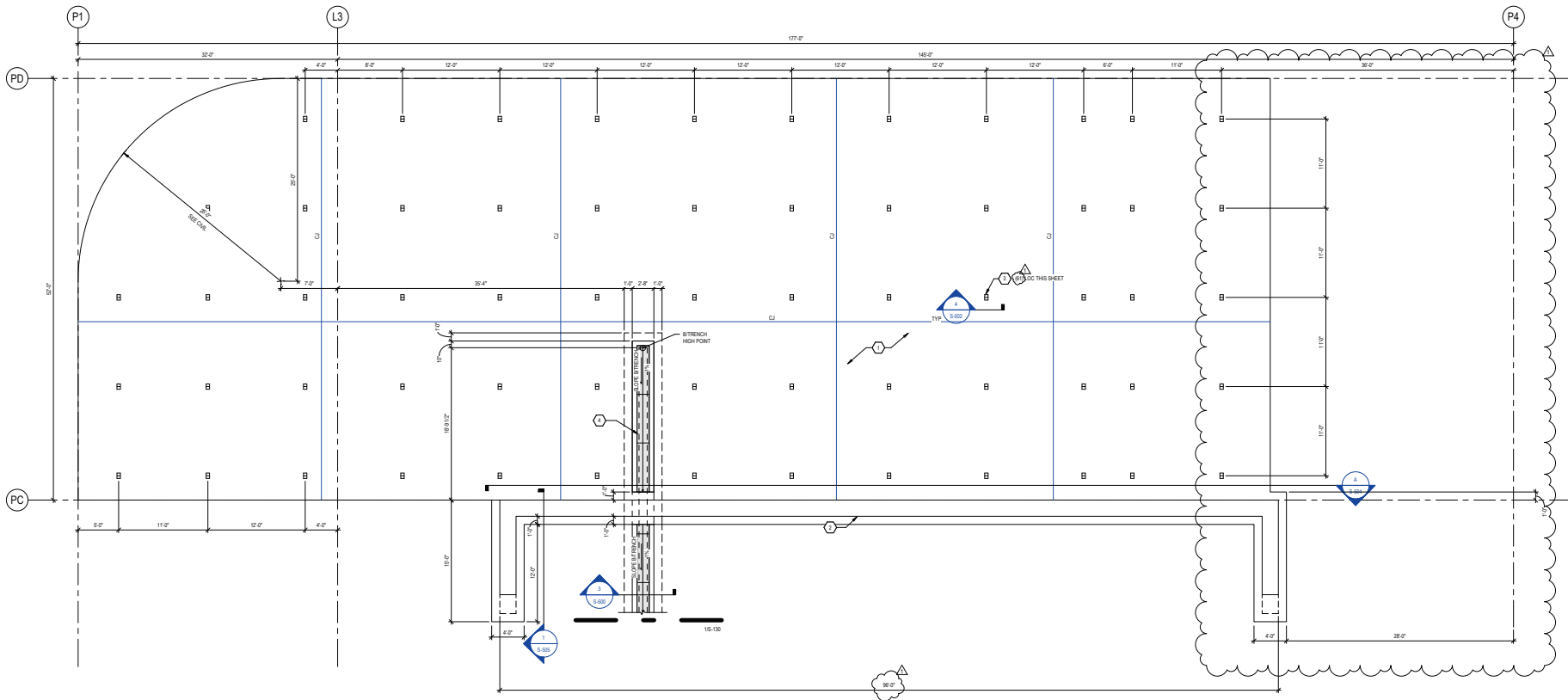
CJ(XX) = SLAB CONTROL JOINT/CONSTRUCTION JOINT. SEE SHEET S-531 FOR DETAIL.

NOTES:

1. SEE SHEET SERIES S-500X FOR GENERAL NOTES AND ABBREVIATIONS.
2. SEE CIVIL AND ARCHITECTURAL DRAWINGS FOR GROUND FLOOR EXTERIOR CONCRETE SLAB LAYOUT, SLOPES, CONTROL JOINTS AND ELEVATIONS.
3. COORDINATE ALL UNDER-SLAB UTILITIES WITH MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO POURING FOUNDATIONS AND SLAB. PENETRATE WALL FOUNDATIONS OR DROP FOUNDATIONS AS NEEDED FOR UTILITIES ACCORDING TO DETAILS ON SHEET S-503.
4. T/1 SLAB ELEVATION = 0'-0" UNO.
5. COORDINATE LOCATIONS OF FLOOR DRAINS WITH ARCHITECTURAL AND PLUMBING DRAWINGS. SLOPE FLOOR TO DRAIN.

KEY NOTES:

- | | |
|---|--|
| 1 | 10" SLAB ON GRADE REINFORCED W/ #5 @ 12" OC T&B EW |
| 2 | BERM WALL PER SHEET S-504 |
| 3 | SECURING POINT PER DETAIL 4/S-502 |
| 4 | STAGE 2 SERVICE TRENCH, PER SHEET S-500 |



1 WEST COMMODITY PAD
3/16" = 1'-0"



ARCHIVER OF RECORD
BRIAN LEE SAYRE
ALASKA SE 215775

DESIGNED BY
C. ALTINOK
DRAWN BY
K. BANNISTER
PROJECT NUMBER
C09729.001

DATE
05/08/2026
TITLE

WEST
COMMODITY PAD
SLAB PLAN

DRAWING NO.
S-132

FOR CONSTRUCTION

DOCUMENT HISTORY	
1	10/03/25 REVISION 1

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION

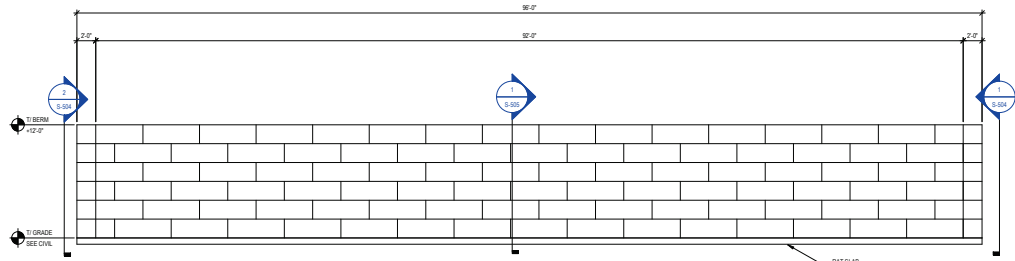


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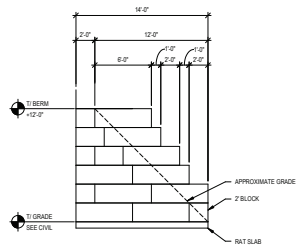
DATE
05/08/2026

PROJECT
SECTIONS &
DETAILS

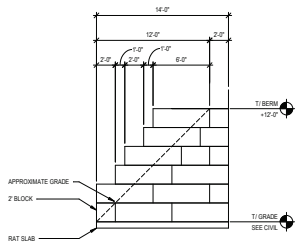
REVISIONS
S-504



A BERM WALL ELEVATION
SCALE: 3/16" = 1'-0"



1 SECTION
SCALE: 3/16" = 1'-0"



2 SECTION
SCALE: 3/16" = 1'-0"



FOR CONSTRUCTION

[illegible]

AREA 3 PAD D
PACIFIC SPACEPORT COMPLEX, KODIAK ISLAND, ALASKA
ALASKA AEROSPACE CORPORATION



ARCHIVING OF RECORD
BRIAN LEE SAYRE
ALASKA SE 215775

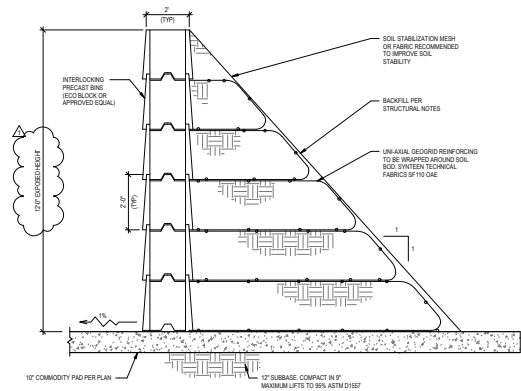
DESIGNED BY
C. ALTINOK
DRAWN BY
K. BANNISTER
PROJECT NUMBER
C09729.001

DATE
05/08/2026

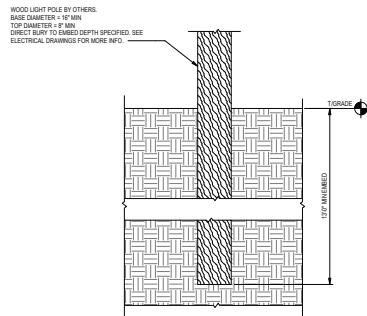
SECTION

DETAILS

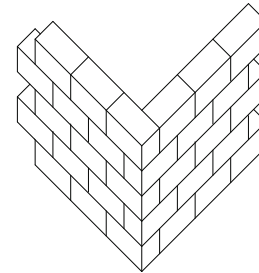
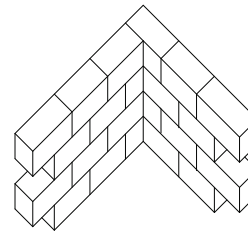
DRAWING NO.
S-505



1 TYPICAL BERM SECTION
SCALE: 1/2" = 1'-0"



3 50FT LIGHT POLE FOUNDATION DETAIL
SCALE: 1/2" = 1'-0"



2 TYPICAL BERM CORNER DETAIL
SCALE: 1/4" = 1'-0"

90° CORNER - NO BATTER (MSE WALL)

