WPI - BATON ROUGE

XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

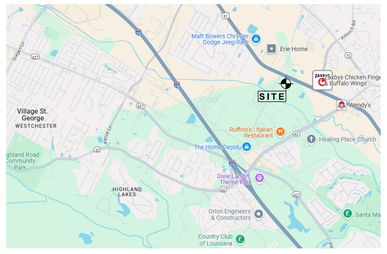
ISSUED FOR:
BUILDING PERMIT - 10.03.2025

CONCEPTUAL RENDERING

PROJECT SITE - ARIEL IMAGE

LOCATION MAP

NOT TO SCALE



CITY OF ST. GEORGE, LOUISIANA - ADOPTED CODES

LOUISIANA STATE UNIFORM CONSTRUCTION CODE

2021 INTERNATIONAL BUILDING CODE w/ AMENDMENTS
2021 INTERNATIONAL MECHANICAL CODE W/ AMENDMENTS
2021 INTERNATIONAL PLUMBING CODE W/ AMENDMENTS
2021 INTERNATIONAL FUEL GAS CODE W/ AMENDMENTS
2020 NFPA 70 NATIONAL ELECTRICAL CODE W/ AMENDMENTS
2021 INTERNATIONAL ENERGY CODE W/ AMENDMENTS
2010 ADA-ABA ACCESSIBILITY GUIDELINES

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2 of 3	ALTA (BY OTHERS)		
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C6.01	EROSION CONTROL PLAN - STAGE 2		
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SHEET #	DRAWING TITLE	ISSUED FOR REVISED PEMB REACTIONS - 07/03/2025	ISSUED FOR BUILDING PERMIT - 10/03/2025
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Owner
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A PIERCE INDUSTRIES COMPANY
12320 South Main
Houston, TX 77035
Phone: (888) 458-0448

WPI - BATON ROUGE, LOUISIANA

TITLE SHEET

G0.0

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CHAPTER 17 - SPECIAL INSPECTIONS - BUILDING A and B

IBC Section	Description	Special Inspector / Firm	Required
1705.1.1	Special Cases		
1705.2	Steel Construction	Terracon	X
1705.3	Concrete Construction	Terracon	X
1705.4	Masonry Construction		
1705.5	Wood Construction		
1705.6	Soils	Terracon	X
1705.7	Driven Deep Foundations		
1705.8	Cast-in-place Deep Foundations		
1705.9	Helical Pile Foundations		
1705.1	Fabricated Items (Metal Buildings)	International Accreditation Service (IAS) [1]	X
1705.11	Special inspections for Wind Resistance		
1705.14	Sprayed Fire-resistant Materials		
1705.15	Intumescent Fire-resistant Coatings		
1705.16	Exterior Insulation Finish Systems (EIFS)		
1705.17	Fire-resistant Penetrations and Joints		
1705.18	Testing for Smoke Control		
	Other:		

Notes:

1. Whirlwind Steel Buildings, Inc. has an IAS Certificate of Accreditation for "Inspection Program for Manufacturer of Metal Building Systems MB-131", which meets the requirements of Fabricator Approval per IBC 1704.2.5.1.

2021 INTERNATIONAL ENERGY CONSERVATION CODE

CHAPTER 3 - GENERAL REQUIREMENTS

SECTION C301 - CLIMATE ZONES

Per Table C301.1 Climate Zones, Moisture Regimes, and Warm Humid Designations by State, County and Territory.

State	County	Climate Zone	Warm Humid
Louisiana	East Baton Rouge	**2A**	**Yes**

CHAPTER 4 - COMMERCIAL ENERGY EFFICIENCY

COMCheck envelope, mechanical, and lighting compliance submitted to building official as separate documents.

2021 INTERNATIONAL PLUMBING CODE

CHAPTER 4 - FIXTURES, FAUCETS, AND FIXTURE FITTINGS

SECTION 403 - MINIMUM PLUMBING FACILITIES

403.1 Minimum Number of Fixtures — **Complies,** see calculations per Table 403.1 below.
403.1.1 Fixture Calculations — For calculations involving multiple occupancies, fractional numbers for each occupancy shall first be summed and then rounded up to the next whole number.

REQUIRED PLUMBING FIXTURES - Table 403.1

Classification	Areas	Total Occupants	Men (50%)	Women (50%)
Business (B)	Office	40	20	20
	Required W.C.'s @1 per 25 (1st 50) then 1 per 50 :		0.8	0.8
	Required Lavatories @ 1 per 40 (1st 80) then 1 per 80 :		0.5	0.5
Classification	Areas	Total Occupants	Men (50%)	Women (50%)
Mercantile (M)	Sales Floor	60	30	30
	Required Water Closets @ 1 per 500:		0.1	0.1
	Required Lavatories @ 1 per 750:		0.1	0.1
Classification	Areas	Total Occupants	Men (50%)	Women (50%)
Shop (S-1)	Repair Shop / Parts Storage / Make Ready / Track Press / Wash Bay	166	83	83
	Required Water Closets @ 1 per 100:		0.8	0.8
	Required Lavatories @ 1 per 100:		0.8	0.8

TOTAL FIXTURES REQUIRED

	Men (80%)	Women (20%)
Total Water Closets, all Occupancy Classifications:	1.7	1.7
Total Required Water Closets:	**2**	**2**
Total Lavatories, all Occupancy Classifications:	1.4	1.4
Total Required Lavatories:	**2**	**2**

TOTAL FIXTURES PROVIDED

	Men - Required	Men - Provided	Women - Required	Women - Provided
W.C.	2	**4**	2	**2**
Urinal	-	**3**	-	**-**
Lavatories	2	**5**	2	**2**

	Required	Provided
Drinking Fountain	2	**2**
Service Sink	1	**1**

Section 403.3.3 Location of toilet facilities in occupancies other than malls.

Required maximum path of travel	Actual
< 500'	400' +/-

BUILDING B - CODE ANALYSIS

GENERAL BUILDING SUMMARY

NEW CONSTRUCTION

BUILDING AREA:	**2,597 SF**
BUILDING HEIGHT:	**24'-8"**
STORIES:	**1**
CONSTRUCTION TYPE:	**II-B**
FIRE PROTECTION:	**NON-SPRINKLERED**

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2010 ADA-ABA ACCESSIBILITY GUIDELINES

CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

U Utility — Section 312.1

CHAPTER 5 - BUILDING HEIGHT AND AREAS

U - Use group, building is not sprinklered, Type II-B construction.

TABLE 504.3 ALLOWABLE HEIGHT (Ft)	ACTUAL HEIGHT
55 Feet	**25 Feet**

TABLE 504.4 ALLOWABLE STORIES	ACTUAL HEIGHT
2 Stories	**1 Story**

U - Use group, building is not sprinklered, Type II-B construction.

Tabular Area per Table 506.2

A_t (NS) = 8,500 SF

Frontage Increase per Section 506.3.2, Table 506.3.3

$I_f = 0.75$

Frontage = 220 ft.
Perimeter = 220 ft.
Open Space = 30 ft. (max allowed per table 506.3.3)

Total Allowable area per Equation 5-1
Per Section 506.2.1, single occupancy, one story buildings, based on U-Utility

$A_a = A_t + (NS \times I_f)$
$A_a = 8{,}500 + (8{,}500 \times 0.75)$
$A_a = 14{,}875$ SF

ALLOWABLE AREA	ACTUAL AREA
14,875 SF	**2,597** SF

CHAPTER 6 - TYPES OF CONSTRUCTION

CONSTRUCTION TYPE: **II - B**

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
Per Table 601, construction Type II B
0 Hours, all elements

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

SECTION 705 - EXTERIOR WALLS

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
Per Table 705.5, construction Type II B, Use U

Fire separation Distance = >30 ft on all sides, therefore
0 Hours, all exterior walls

CHAPTER 8 - INTERIOR FINISHES

SECTION 803 - WALL AND CEILING FINISHES

Section 803.1.2 Interior Wall and ceiling finish materials.
Class A: = Flame spread index 0-25; smoke developed index 0-450.
Class B: = Flame spread index 26-75; smoke developed index 0-450.
Class C: = Flame spread index 76-200; smoke developed index 0-450.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
Per Table 803.13; Non-Sprinklered

GROUP	Exit Passageways	Corridors	Rooms and enclosed spaces
U	No restrictions	No restrictions	No restrictions

CHAPTER 9 - FIRE PROTECTION SYSTEMS

SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS

Not Required, per 506.2.1 building area is below sprinkler system threshold.

SECTION 906 - PORTABLE FIRE EXTINGUISHERS

Provided, see Life Safety Plan, Sheet G1.1

SECTION 907 - FIRE ALARM

Not Required by section 907 for U use group buildings.

CHAPTER 10 - MEANS OF EGRESS

SECTION 1004 - OCCUPANT LOAD

Use Group	Function of Space	Area (SF)	Occupant Load Factor: *Per Table 1004.5*	Total Occupants
U	Wash Bay	2,597	300	8.7
	TOTAL AREA (SF):	2,597	OCCUPANT LOAD:	**8.7**

SECTION 1005 - MEANS OF EGRESS SIZING
Per Section 1005.3.2 Other egress components

Space	Occupants	Capacity Factor	Required Width (in)	Actual Width (in) @ Ea. Exit / Total
Wash Bay	8.7	0.2	1.7	300 / 300

SECTION 1006 - NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
Section 1006.2.1 Egress based on occupant load and common path of egress travel distance, see Life Safety Plan Sheet G1.1

Space	Required Exits	Provided	Notes
Wash Bay	2	2	
Wash Bay Equipment	1	1	*1 exit allowable per Table 106.2.1***

***Use Group U - Occupancy Load < 30 - Maximum Common Path of Egress Travel <100'.*

SECTION 1017 - EXIT ACCESS TRAVEL DISTANCE
Table 1017.2 Exit Access Travel Distance, Without Sprinkler System, see Life Safety Plan Sheet G1.2

Space	Occupancy	Allowable Distance (ft)	Actual Distance (ft)
Wash Bay	U	100	30

BUILDING A - CODE ANALYSIS

GENERAL BUILDING SUMMARY

NEW CONSTRUCTION

BUILDING AREA:	**28,927 SF**
BUILDING HEIGHT:	**36'-8"**
STORIES:	**1**
CONSTRUCTION TYPE:	**II-B**
FIRE PROTECTION:	**SPRINKLERED**
USE DESIGNATIONS:	**B, M, S-1**
	Non-Separated

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CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

Mixed use
B BUSINESS — Section 304.1
M MERCANTILE — Section 309.1
S-1* MODERATE HAZARD STORAGE — Section 311.2
** Motor Vehicle Repair Garage complying with maximum allowable quantities of hazardous*
See Hazardous Material Plan and Hazardous Material Summary sheet G1.2

CHAPTER 4 - SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

SECTION 406 - MOTOR-VEHICLE-RELATED OCCUPANCIES

406.8 REPAIR GARAGES
406.8.1 Ventilation — Mechanically ventilated in accordance with the 2021 International Mechanical Code, controlled at garage entrance
406.8.2 Gas Detection System — **NOT REQUIRED**, facility does not repair vehicles fueled by nonodorized gases such as hydrogen and nonodorized LNG
406.8.3 Automatic Sprinkler System — **PROVIDED**, per 903.2.9.1

CHAPTER 5 - BUILDING HEIGHT AND AREAS

M is the more restrictive use and therefore used for Height calculations, building is sprinklered, Type II-B construction.

TABLE 504.3 ALLOWABLE HEIGHT (Ft)	ACTUAL HEIGHT
75 Feet	**37 Feet**

TABLE 504.4 ALLOWABLE STORIES	ACTUAL HEIGHT
3 Stories	**1 Story**

M is the more restrictive use and therefore used for Area calculations, building is sprinklered, Type II-B construction.

Tabular Area per Table 506.2

A_t (S1) = 50,000 SF
A_t (NS) = 12,500 SF

Frontage Increase per Section 506.3.2, Table 506.3.3

$I_f = 0.75$

Frontage = 830 ft.
Perimeter = 830 ft.
Open Space = 30 ft. (max allowed per table 506.3.3)

Total Allowable area per Equation 5-1
Per Section 506.2.1, single occupancy, one story buildings, based on M-Mercantile, the most restrictive use.

$A_a = A_t + (NS \times I_f)$
$A_a = 50{,}000 + (12{,}500 \times 0.75)$
$A_a = 59{,}375$ SF

ALLOWABLE AREA	ACTUAL AREA
59,375 SF	**28,927** SF

REQUIRED SEPARATION OF OCCUPANCIES
Per Sections 508.3, 508.3.3, and Table 508.4:
B to M to S-1* **0 HOURS**

** All three Uses grouped in the same Occupancy Classification per Table 508.4.*

CHAPTER 6 - TYPES OF CONSTRUCTION

CONSTRUCTION TYPE: **II - B**

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
Per Table 601, construction Type II B
0 Hours, all elements

CHAPTER 7 - FIRE AND SMOKE PROTECTION FEATURES

SECTION 705 - EXTERIOR WALLS

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
Per Table 705.5, construction Type II B, Use M and S-1 (most restrictive)

Fire separation Distance = >30 ft on all sides, therefore
0 Hours, all exterior walls

CHAPTER 8 - INTERIOR FINISHES

SECTION 803 - WALL AND CEILING FINISHES

Section 803.1.2 Interior Wall and ceiling finish materials.
Class A: = Flame spread index 0-25; smoke developed index 0-450.
Class B: = Flame spread index 26-75; smoke developed index 0-450.
Class C: = Flame spread index 76-200; smoke developed index 0-450.

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY
Per Table 803.13; Sprinklered

GROUP	Exit Passageways	Corridors	Rooms and enclosed spaces
B, M	B	C	C
S-1	C	C	C

CHAPTER 9 - FIRE PROTECTION SYSTEMS

SECTION 903 - AUTOMATIC SPRINKLER SYSTEMS

Provided, per 903.2.9.1 NFPA 13 Sprinkler Systems, see Fire Protection Drawings

SECTION 906 - PORTABLE FIRE EXTINGUISHERS

Provided, see Life Safety Plan, Sheet G1.1

SECTION 907 - FIRE ALARM

Provided, see Electrical Drawings

CHAPTER 10 - MEANS OF EGRESS

SECTION 1004 - OCCUPANT LOAD

Use Group	Function of Space	Area (SF)	Occupant Load Factor: *Per Table 1004.5*	Total Occupants
B	Office (Rentals)	3,469	150	23.1
B	Office (Corporate)	2,397	150	16.0
M	Mercantile (Sales Floor)	3,555	60	59.3
S-1	Parts Storage	4,773	500	9.5
S-1	Repair Shop	12,977	100	129.8
S-1	Track Press	1,178	100	11.8
S-1	Make Ready	578	100	5.8
	TOTAL AREA (SF):	28,927	OCCUPANT LOAD:	**255.2**

SECTION 1005 - MEANS OF EGRESS SIZING
Per Section 1005.3.2 Other egress components

Space	Occupants	Capacity Factor	Required Width (in)	Actual Width (in) @ Ea. Exit / Total
Office (Rentals)	23.1	0.15	3.5	33 / 99
Office (Corporate)	16.0	0.15	2.4	33 / 66
Sales	59.3	0.15	8.9	33 / 99
Parts Storage	9.5	0.15	1.4	33 / 99
Repair Shop	129.8	0.15	19.5	33 / 198
Track Press	11.8	0.15	1.8	33 / 66
Make Ready	5.8	0.15	0.9	33 / 66

SECTION 1006 - NUMBER OF EXITS AND EXIT ACCESS DOORWAYS
Section 1006.2.1 Egress based on occupant load and common path of egress travel distance, see Life Safety Plan Sheet G1.1

Space	Required Exits	Provided	Notes
Office (Rentals)	2	2	
Office (Corporate)	2	2	
Sales	2	2	
Parts Storage	2	2	
Repair Shop	2	7	
Track Press	2	2	
Make Ready	2	2	

SECTION 1017 - EXIT ACCESS TRAVEL DISTANCE
Table 1017.2 Exit Access Travel Distance, with Sprinkler System, see Life Safety Plan Sheet G1.1

Space	Occupancy	Allowable Distance (ft)	Actual Distance (ft)
Office (Rentals)	B	300	73
Office (Corporate)	B	300	56
Sales	M	250	91
Parts Storage	S-1	250	103
Repair Shop	S-1	250	85
Track Press	S-1	250	77
Make Ready	S-1	250	32

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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ORLANDO, FL 32822
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General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
CODE MATRIX

Seal — JOSEPH ANTUNOVICH, REG. NO. 6884, STATE OF ILLINOIS, REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.
G0.1

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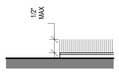
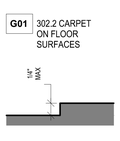
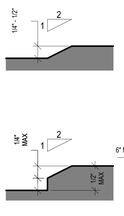


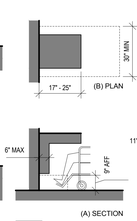
G01 302.2 CARPET ON FLOOR SURFACES



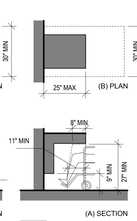
G02 303.2 VERTICAL CHANGES IN LEVEL



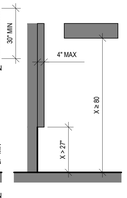
G03 303.3 BEVELED CHANGES IN LEVEL



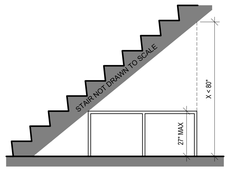
G04 306.2 TOE CLEARANCE



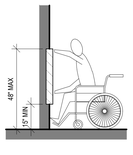
G05 306.3 KNEE CLEARANCE



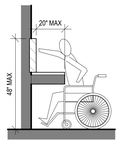
G06 307.2 LIMITS OF PROTRUDING OBJECTS



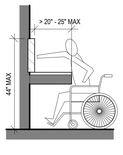
G07 307.4 VERTICAL CLEARANCE



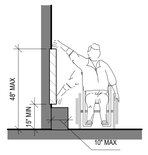
G08 308.2.1 UNOBSTRUCTED FORWARD REACH



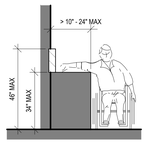
G09 308.2.2 OBSTRUCTED FORWARD REACH



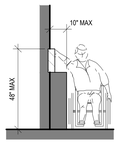
G10 308.2.2 OBSTRUCTED FORWARD REACH



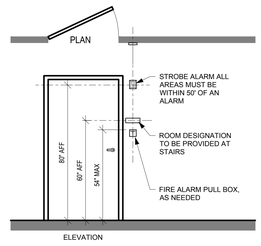
G11 308.3.1 UNOBSTRUCTED SIDE REACH



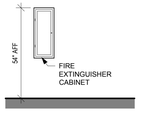
G12 308.3.2 OBSTRUCTED HIGH SIDE REACH



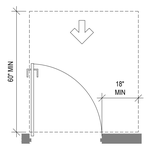
G13 308.3.2 OBSTRUCTED HIGH SIDE REACH



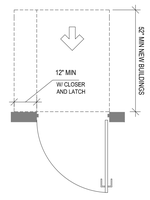
G14 MOUNTING HEIGHTS ADJACENT TO INSWING DOORS



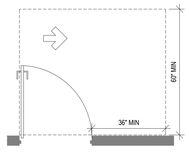
G15 FIRE EXTINGUISHER CABINET MOUNTING HEIGHT



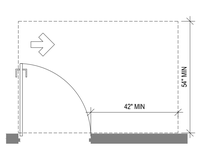
(A) FRONT APPROACH, PULL SIDE



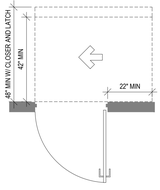
(B)(C) FRONT APPROACH, PUSH SIDE



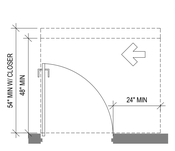
(D) HINGE APPROACH, PULL SIDE



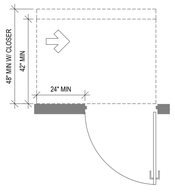
(E) HINGE APPROACH, PULL SIDE



(F) HINGE APPROACH, PUSH SIDE



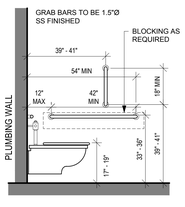
(G) LATCH APPROACH, PULL SIDE



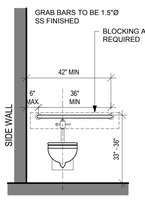
(H) LATCH APPROACH, PUSH SIDE

G16 404.2.3.2 MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

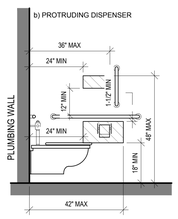
G17 604.2, 604.3 WATER CLOSET LOCATION & CLEARANCE



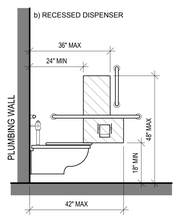
G18 604.4, 604.5.1 WATER CLOSET SEAT HEIGHT & SIDE WALL GRAB BARS

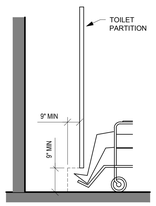


G19 604.5.2 WATER CLOSET REAR WALL GRAB BARS

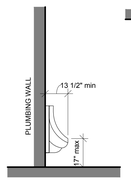


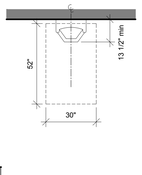
G20 604.7 DISPENSER OUTLET LOCATION



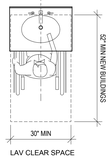


G21 604.9.5 TOILET PARTITION TOE CLEARANCE

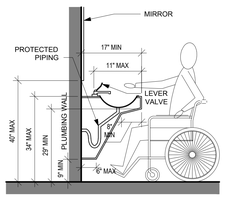




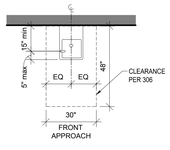
G22 605.2 HEIGHT AND DEPTH OF URINAL



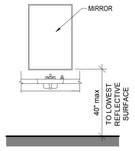
G23 606.2 LAVATORY CLEAR FLOOR SPACE



G24 606.3 HEIGHTS AND CLEARANCES AT LAVATORIES



G24 602 DRINKING FOUNTAINS

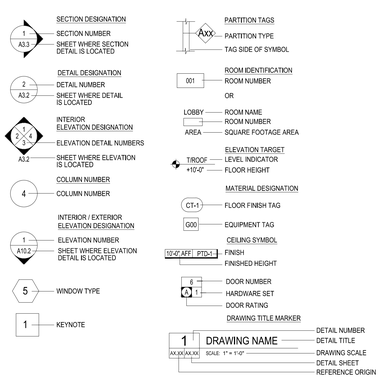


G25 603.3 MIRRORS

ABBREVIATIONS

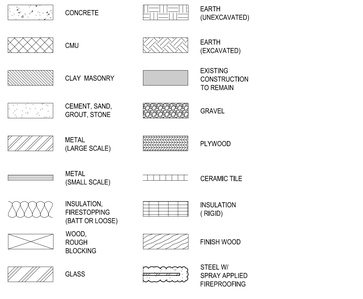
AB	ANCHOR BOLT	EL	ELEVATION	KOP	KNOCK OUT PANEL	RCP	REFLECTED CEILING PLAN
ACM	ALUMINUM COMPOSITE METAL	ELECT	ELECTRIC			RD	ROOF DRAIN
ACS FLR	ACCESS FLOOR	ELEV	ELEVATOR	LAB	LABORATORY	RECV	RECEIVING
ACS PNL	P/NL ACCESS PANEL	EMER	EMERGENCY	LAV	LAVATORY	REF	REFRIGERATOR, REFERENCE
ACT	ACOUSTICAL CEILING TILE	EMER SHR	EMERGENCY SHOWER	LB(S)	POUNDS	REINF	REINFORCEMENT
AD	AREA DRAIN	ENCL	ENCLOSURE	LF	LINEAL FEET	REQ / REQS	REQUIREMENT / REQUIREMENTS
ADA	AMERICANS WITH DISABILITIES ACT	EPDM	EXPANDED POLYETHELENE DIENE MONOMER	LL	LIVE LOAD	REQD / REQ'D	REQUIRED
ADH	ADHESIVE			LPT	LOW POINT	REV	REVISION, REVISED
ADJ	ADJUSTABLE	EQ	EQUAL	LT WT	LIGHT WEIGHT	RF	RESILIENT FLOORING
AFF	ABOVE FINISH FLOOR	EQUIP	EQUIPMENT	LTG	LIGHTING	RFG	ROOFING
AHU	AIR HANDLING UNIT	ETC	ET CETERA			RM	ROOM
ALT	ALTERNATE	EWC	ELECTRIC WATER COOLER	MACH	MACHINE	RO	ROUGH OPENING
ALUM	ALUMINUM	EWS	EYE WASH STATION	MATL	MATERIAL	ROW	RIGHT OF WAY
APC	ACOUSTICAL PANEL CEILING	EXH	EXHAUST	MAX	MAXIMUM	RTU	ROOF TOP UNIT
APC	ARCHITECTURAL PRECAST CONCRETE	EXIST / EX	EXISTING	MECH	MECHANICAL		
		EXP	EXPANSION JOINT	MED	MEDIUM	S	SOUTH
B/	BOTTOM OF	EXT	EXTERIOR	MEMB	MEMBRANE	SAB	SOUND ATTENUATION BATT (BLANKET)
BD	BOARD			MEZZ	MEZZANINE	SAN	SANITARY
BHMP	BUILDING HEIGHT MEASURING POINT	FA	FIRE ALARM	MFR	MANUFACTURER	SC	SOLID CORE
BLDG	BUILDING	FAR	FLOOR AREA RATIO	MH	MAN HOLE	SCHED	SCHEDULE
BM	BENCH MARK	FD	FLOOR DRAIN	MIN	MINIMUM	SECT	SECTION
BOT	BOTTOM	FDN	FOUNDATION	MISC	MISCELLANEOUS	SF	SQUARE FOOT/FEET
BSMT	BASEMENT	FE	FIRE EXTINGUISHER	MLDG	MOULDING	SHT	SHEET
		FEC	FIRE EXTINGUISHER CABINET	MO	MASONRY OPENING	SIM	SIMILAR
CB	CATCH BASIN	FH	FIRE HYDRANT	MTD	MOUNTED	SQ	SQUARE
CG	CORNER GUARD	FHC	FIRE HOSE CABINET	MTL	METAL	SS	STAINLESS STEEL
CI	CAST IRON	FHCE	FIRE HOSE CABINET & EXTINGUISHER	MWP	MEMBRANE WATERPROOFING	STC	SOUND TRANSMISSION CLASS
CJ	CONTROL JOINT	FHR	FIXTURE			STD	STANDARD
CL	CENTER LINE	FIN	FINISH	N	NORTH	STL	STEEL
CLG	CEILING	FIN FLR EL	FINISH FLOOR ELEVATION	NC	NOISE CRITERIA	STOR	STORAGE
CLO	CLOSET	FLR	FLOOR	NIC	NOT IN CONTRACT	STRUCT	STRUCTURAL
CLR	CLEAR	FLUOR	FLUORESCENT	NOM	NOMINAL	SUSP	SUSPENDED
CMT	COLOR TO MATCH	FO	FACE OF	NTS	NOT TO SCALE	SYMM	SYMMETRICAL
CMU	CONCRETE MASONRY UNIT	FRG	FIBERGLASS REINFORCED GYPSUM				
CO	CLEAN OUT	FT	FOOT OR FEET	OC	ON CENTER	T	TREAD
COL	COLUMN	FTG	FOOTING	OD	OUTSIDE DIAMETER	T/	TOP OF
CONC	CONCRETE	FURN	FURNISH/ED (FURNITURE)	OFD	OVERFLOW DRAIN	TBD	TO BE DETERMINED
CONST	CONSTRUCTION			OH	OVERHEAD	TEL	TELEPHONE
CONT	CONTINUE	GA	GAUGE	OPNG	OPENING	TEMP	TEMPORARY
CORR	CORRIDOR	GALV	GALVANIZED	OPP	OPPOSITE	TER	TERRAZZO
CPT	CARPET	GL	GLASS			THK	THICK, THICKNESS
CSK	COUNTERSUNK	GYP	GYPSUM	PCC	PRECAST CONCRETE	TN	TRUE NORTH
CT	CERAMIC TILE			PCMU	PREFACED CONCRETE MASONRY UNIT	TS	TUBE STEEL
		H	HIGH	PCP	PORTLAND CEMENT PLASTER	TV	TELEVISION
DEMO	DEMOLITION	HB	HOSE BIBB	PERP	PERPENDICULAR	TYP	TYPICAL
DEPT	DEPARTMENT	HC	HOLLOW CORE	PL	PLATE		
DET	DETAIL	HCP	HANDICAP(PED)	PLAM	PLASTIC LAMINATE	UL	UNDERWRITER'S LABORATORIES
DF	DRINKING FOUNTAIN	HDW	HARDWARE	PLAS	PLASTIC	UNASSIG	UNASSIGNED
DIA	DIAMETER	HM	HOLLOW METAL	PLBG	PLUM(ING) / (ER)	UNO	UNLESS NOTED OTHERWISE
DIAG	DIAGONAL	HORIZ	HORIZONTAL	PLYWD	PLYWOOD	UR	URINAL
DIM	DIMENSION	HPT	HIGH POINT	PN	PROJECT NORTH		
DL	DEAD LOAD	HR	HOUR	PNL	PANEL	VAR	VARIES
DMPF	DAMP PROOF(ING)	HT	HEIGHT	PR	PAIR	VERT	VERTICAL
DN	DOWN	HVAC	HEATING, VENTILATION & AIR CONDITIONING	PREFAB	PREFABRICATED	VEST	VESTIBULE
DR	DOOR			PROP	PROPERTY	VIF	VERIFY IN FIELD
DRN	DRAIN	ID	INSIDE DIAMETER	PSF	POUND PER SQUARE FOOT		
DS	DOWNSPOUT	IN	INCH	PSI	POUND PER SQUARE INCH	W	WEST, WIDTH, WIDE
DWG / DWGS	DRAWING / DRAWINGS	INCL	INCLUDE(D) / (ING)	PT	PRESSURE TREATED	W/	WITH
		INSUL	INSULATION / INSULATE	PTD	PAINTED	WBL	WOOD BLOCKING
E	EAST	INT	INTERIOR			WC	WATER CLOSET
EA	EACH			QT	QUARRY TILE	WD	WOOD
EC	EXPOSED CONSTRUCTION	J.C.	JANITOR CLOSET			WH	WATER HEATER
EIFS	EXTERIOR INSULATION FINISH SYSTEM	JT	JOINT	R	RISER / RADIUS	WP	WORK POINT
EJ	EXPANSION JOINT			RAD	RADIUS	WWF	WELDED WIRE FABRIC
		KIT	KITCHEN	RB	RESILIENT BASE	WWM	WELDED WIRE MESH

SYMBOLS LEGEND



MATERIALS LEGEND

(MATERIALS INDICATIONS N.T.S.)



GENERAL NOTES

1. ALL WORK IS TO BE PERFORMED IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ALL GOVERNING CODES AND ORDINANCES, INCLUDING BUT NOT LIMITED TO THE 2021 INTERNATIONAL BUILDING CODE, ICC/ANSI 117.1 - 2017, 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, OSHA REGULATIONS, AND ALL AGENCIES HAVING JURISDICTION
2. CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY IN THE FIELD ALL CONDITIONS AFFECTING THEIR WORK. ANY CONDITIONS FOUND THAT ALTER OR OTHERWISE CHANGE THE REQUIREMENTS FOR THE WORK SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND CONSTRUCTION OF FORMWORK, STAGINGS, BRACING, SHEETING AND SHORING, RESHORING, ETC. THIS INCLUDES THAT REQUIRED FOR THE CONTRACTOR VEHICLES, FORKLIFTS, MOBILE CRANES, MATERIALS STORAGE, ETC. MEANS AND METHODS OF CONSTRUCTION IS SOLELY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
4. IMPLEMENTING JOB SITE SAFETY AND CONSTRUCTION PROCEDURES ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL WORK OF THE PROJECT SHALL BE PERFORMED CAREFULLY AND SKILLFULLY BY WORKERS ADEPT IN THEIR TRADES.
6. CARE SHALL BE TAKEN TO AVOID DISTURBANCE OF ADJACENT FUNCTIONS/BUILDINGS.
7. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE THOROUGH COORDINATION OF ALL TRADES. NO CLAIMS FOR ADDITIONAL WORK WILL BE ACCEPTED FOR WORK RELATED TO SUCH COORDINATION.
8. ALL CONTRACTORS SHALL EXAMINE THE CONTRACT DOCUMENTS, AND REFERENCED, NON-CONTRACTUAL DOCUMENTS, AND SHALL BE INFORMED OF THE ENTIRE CONTENTS THEREOF PRIOR TO SUBMISSION OF PROPOSAL. ANY ERRORS OR AMBIGUITIES NOTED DURING SAID EXAMINATION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE SUBMISSION OF A BID. THE ARCHITECT WILL ISSUE AN ADDENDUM OF INTERPRETATION OF THE CITED ERROR OR AMBIGUITY. NO SUBSEQUENT CLAIM FOR EXTRA WORK WILL BE ALLOWED ON ACCOUNT OF CLAIMED MISUNDERSTANDING OF THE MEANING OR INTENT OF THE CONTRACT DOCUMENTS OF ANY PORTION THEREOF IF THE ITEM OCCASIONING THE CLAIM APPEARED IN, OR WAS INFERABLE FROM, SAID CONTRACT DOCUMENTS AS FURNISHED FOR BIDDING.
9. ALL CONTRACTORS SHALL CHECK AND VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AT THE SITE PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN PLANS AND SPECIFICATIONS BEFORE PROCEEDING.
10. FIRE STOPS, DRAFT STOPS AND ALL FIRE SAFING IS TO BE MAINTAINED AND/OR PROVIDED AS REQUIRED BY THE CODE:

    a) FIRE ALARM, SPRINKLER AND STANDPIPE SYSTEMS SHALL BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND WILL BE REQUIRED TO BE ADAPTED FOR SPACES WITH NO CEILINGS FOLLOWING REMOVAL (UP-TURNED HEADS TO UNDERSIDE OF DECK), WHEN REQUIRED BY CODE, AND ALL APPLICABLE LAWS, ORDINANCES, AND REGULATIONS.

    b) FIRE-RESISTANCE-RATED PARTITIONS, FIRE BARRIERS, AND FIRE WALLS SEPARATING OCCUPIED OR VACANT TENANT SPACES FROM THE REMAINDER OF THE BUILDING SHALL BE MAINTAINED. OPENINGS, JOINTS, AND PENETRATIONS IN FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROTECTED IN ACCORDANCE WITH CHAPTER 7 OF THE 2015 INTERNATIONAL BUILDING CODE.

    c) PERSONS, IN CHARGE OR CONTROL OF, A BUILDING OR PORTION THEREOF, SHALL REMOVE HERE FROM ALL ACCUMULATIONS OF COMBUSTIBLE MATERIALS, FLAMMABLE OR COMBUSTIBLE WASTE OR RUBBISH AND SHALL SECURELY LOCK OR OTHERWISE SECURE DOORS, WINDOWS AND OTHER OPENINGS TO PREVENT ENTRY BY UNAUTHORIZED PERSONS. THE PREMISE SHALL BE MAINTAINED CLEAR OF WASTE OR HAZARDOUS MATERIALS.
11. ALL DIMENSIONS, NOTES AND DETAILS SHOWING A PORTION OF A DRAWING SHALL APPLY TYPICALLY TO ALL OPPOSITE HAND AND/OR SIMILAR CONDITIONS. DO NOT SCALE DRAWINGS & VERIFY ALL LISTED DIMENSIONS IN FIELD AS REQUIRED FOR THE SCOPE OF THE WORK. ALL DIMENSIONS ARE TO FINISH FACE, UNLESS OTHERWISE NOTED.
12. THE FOLLOWING SHALL BE MAINTAINED AND/OR PROVIDED IN COMPLIANCE WITH CURRENT OSHA STANDARDS IN ADDITION TO ALL OTHER GOVERNING CODES AND ORDINANCES:
    a) ADEQUATE EXITS AND UNOBSTRUCTED ACCESS TO SUCH SHALL BE MAINTAINED;
    b) VISIBLE EXIT SIGNAGE SHALL BE PROVIDED OR MAINTAINED.
    c) FIRE PROTECTION PROGRAM AS WELL AS EQUIPMENT SHALL BE PROVIDED BY CONTRACTOR.
    d) ACCESS TO A SUFFICIENT WATER SUPPLY SHALL BE AVAILABLE UPON ACCUMULATION OF COMBUSTIBLE MATERIAL.
    e) PROVIDE FIRE EXTINGUISHING DEVICES AND EQUIPMENT OF PROPER RATING, STANDARD, AND LOCATION.
    f) SERVICE OF FIRE RESPONSE SYSTEMS SHALL BE MAINTAINED AND CHECKED DAILY TO INSURE THAT PROTECTION IS IN SERVICE.
13. ALL ELECTRICAL RISERS AND SHAFTS SERVING ELEVATORS, EMERGENCY & EXIT LIGHTS, VOICE COMMUNICATION SYSTEMS, AND SMOKE CONTROL FANS ARE TO BE ENCLOSED WITH TWO HOUR CONSTRUCTION AND ARE TO INCLUDE CONTINUOUS THREE INCH HIGH WATER STOPS ON ALL SIDES AS APPROPRIATE.
14. ALL GUARDRAILS AND HANDRAILS SHALL MEET IBC FOR STAIRWAY, PORCH, DECK AND BALCONY RAILING, BOTH EXTERIOR AND INTERIOR, SHALL BE DESIGNED TO RESIST A SIMULTANEOUS VERTICAL AND HORIZONTAL THRUST APPLIED AT THE TOP OF THE RAILING OR A CONCENTRATED LOAD IN ANY DIRECTION, WHICHEVER PRODUCES THE GREATEST STRESS.
15. PROVIDE FIRE-RETARDANT TREATED PLYWOOD BACKERBOARDS AROUND THE INSIDES OF ALL ELECTRICAL AND TELEPHONE ROOMS.
16. GC MAY PROPOSE ALTERNATE SOLUTIONS IF EXISTING CONDITIONS ARE NOT ACCURATELY DEPICTED IN THE DRAWINGS. GC TO COORDINATE WITH ARCHITECT AND OWNER UPON DISCOVERY OF SUCH CONDITIONS AND PRIOR TO CONSTRUCTION OF ALTERNATE SOLUTIONS.

ACCESSIBILITY NOTES

1. **THIS PROJECT SHALL COMPLY FULLY WITH ALL REQUIREMENTS OF THE 2021 INTERNATIONAL BUILDING CODE, ANSI A117.1-2017, AND AMERICANS WITH DISABILITIES ACT 2010.**
2. ALL DOORS LEADING TO REQUIRED ACCESSIBLE SPACES SHALL BE MINIMUM 3'-0" WIDE, 18" CLEARANCE ON PULL SIDE, AND HAVE LEVER OPERATED HARDWARE, AND COMPLY FULLY WITH ANSI A117.1 SECTION 404 (DOORS AND DOORWAYS).
3. ALL CONTROLS AND OPERATING MECHANISMS SHALL BE WITHIN REACH RANGE (AS DESCRIBED IN ANSI A117.1 SECTION 308) AND COMPLY WITH IBC 15" A.F.F. TO 48" A.F.F.
4. ALL EMERGENCY WARNING / FIRE ALARM SYSTEMS SHALL BE BOTH AUDIBLE AND VISUAL AND SHALL COMPLY FULLY WITH ANSI 117.1 SECTION 702. ALL VISUAL ALARMS THROUGHOUT THE BUILDING TO BE SYNCHRONIZED.
5. VISUAL ALARMS SHALL BE MOUNTED 80" AFF OR 6" BELOW CEILING. WHICHEVER IS LESS. VISUAL ALARMS ONLY ARE ACCEPTABLE IF AN AUDIBLE ALARM LOCATED IN THE CORRIDOR IS CLOSE ENOUGH TO EXCEED SOUND LEVELS WITHIN THE ROOM OR SPACE BY A MINIMUM OF 15 DBA.
6. WHERE A REQUIRED EXIT FROM AN OCCUPIABLE LEVEL ABOVE OR BELOW A LEVEL OF ACCESSIBLE EXIT DISCHARGE IS NOT ACCESSIBLE, AN AREA OF RESCUE ASSISTANCE SHALL BE PROVIDED AT EACH LEVEL, AND MUST COMPLY WITH IBC.
7. SIGNAGE PROVIDED THROUGHOUT THE FACILITY SHALL BE BRAILLE, TACTILE AND COLOR CONTRASTING AND FULLY COMPLY WITH IBC.
8. PROVIDE MAXIMUM 1:12 SLOPE AT ALL RAMPS WITH HANDRAILS AT BOTH SIDES. (ANSI A117.1-405)
9. ACCESSIBLE ENTRANCE: MAIN ENTRY SHALL BE FULLY ACCESSIBLE
10. TOILET HEIGHT CLEARANCES: MUST BE 17"-19" A.F.F. PER ANSI A117.1-604.4. VERTICAL GRAB BAR REQUIRED. ALL OTHER PLUMBING FIXTURES SHALL COMPLY WITH ANSI A117.1 604 THROUGH 610.
11. BOTTOM OF REFLECTIVE SURFACE ON MIRRORS WITHIN ACCESSIBLE BATHROOMS MUST BE AT 40" A.F.F. PER ANSI A117.1 - 603.3.
12. GRAB BARS SHALL BE INSTALLED AT 33" TO 36" A.F.F. TO TOP OF GRAB BAR. FLUSH CONTROLS IN ACCESSIBLE STALLS AND BATHROOMS TO BE ON THE WIDE SIDE OF THE TOILET.
13. ALL DRINKING FOUNTAINS SHALL BE IAC REQUIRED "HI-LO" TYPE, AND SHALL COMPLY WITH ANSI A117.1 SECTION 602.
14. ALL CURB RAMPS SHALL COMPLY WITH ANSI A117.1 SECTION 406 AND LOCAL DEPARTMENT OF TRANSPORTATION STANDARDS FOR SIDEWALK CURB RAMPS. DETECTABLE SURFACE TO BE 2' x 4' USING TRUNCATED DOMES IN SQUARE PATTERN.
15. IN ADDITION TO REQUIREMENTS LISTED ABOVE, TOILET ROOMS, BATHING AND SHOWER FACILITIES SHALL COMPLY WITH 2010 ADA.
18. CHANGE IN LEVEL OF 1/4 INCH HIGH MAXIMUM SHALL BE PERMITTED TO BE VERTICAL. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MAXIMUM AND 1/2 INCH HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH SHALL BE RAMPED AND SHALL COMPLY WITH ANSI A117.1.

SIGNAGE NOTES

1. GC TO PROVIDE ALL BUILDING SIGNAGE; INCLUDING BUT NOT LIMITED TO: CODE-REQUIRED SIGNAGE, BUILDING EXTERIOR SIGNAGE, AND ROOM DESIGNATION SIGNAGE. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFO.
2. ALL CODE-REQUIRED SIGNAGE IS TO BE INSTALLED PRIOR TO BUILDING OCCUPANCY.
3. SIGNAGE SUPPLIER IS TO BE RESPONSIBLE FOR CODE COMPLIANCE OF SIGNAGE AND TO BE RESPONSIBLE FOR ALL CODE REQUIRED SIGNAGE, WHETHER LISTED BELOW OR NOT.
4. CODE REQUIRED SIGNAGE INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
    - A. ACCESSIBILITY SIGNAGE PER IBC:
        - a. THE INTERNATIONAL SYMBOL OF ACCESSIBILITY SHALL BE USED AT THE FOLLOWING LOCATIONS TO IDENTIFY REQUIRED ACCESSIBLE ELEMENTS:
            - ACCESSIBLE AREAS OF REFUGE AS REQUIRED BY IBC 1007.9
            - UNISEX TOILET AND BATHING ROOMS AS REQUIRED BY IBC 1110.1.6
        - b. DIRECTIONAL SIGNAGE INDICATING THE ROUTE TO THE NEAREST LIKE ACCESSIBLE ELEMENT SHALL BE PROVIDED AT THE FOLLOWING LOCATIONS AND SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY:
            - AT EACH SEPARATE-SEX TOILET AND BATHING ROOM INDICATING THE LOCATION OF THE NEAREST FAMILY OR ASSISTED-USE TOILET OR BATHING ROOM IF PROVIDED IN ACCORDANCE WITH IBC SECTION 1110.2.4.
            - SIGNS THAT PROVIDE DIRECTION TO OR INFORMATION ABOUT PERMANENT INTERIOR SPACES OF THE SITE AND FACILITIES SHALL CONTAIN VISUAL CHARACTERS COMPLYING WITH ANSI A117.1.
        - c. SIGNAGE INDICATING SPECIAL ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AS FOLLOWS. SIGNAGE TO BE DESIGNED AND MOUNTED PER THE PROVISIONS OF ICC/ANSI A117.1, SECTION 703.
            - AT EACH DOOR TO AN EXIT STAIRWAY, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1011.3. SIGNAGE SHALL DESIGNATE NEXT FLOOR OF RE-ENTRY IN BOTH EMERGENCY AND NON-EMERGENCY CONDITIONS.
            - AT EACH DOOR TO AN EXIT STAIRWAY, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1011.3. SIGNAGE SHALL DESIGNATE EACH AREA OF RESCUE ASSISTANCE (AOR) AND BE PROVIDED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AS NOTED ABOVE.
            - AT AREAS OF REFUGE, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1007.11
            - AT AREAS FOR ASSISTED RESCUE, SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH IBC SECTION 1007.11
5. SEE MECHANICAL, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR OTHER SIGNAGE REQUIREMENTS.

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

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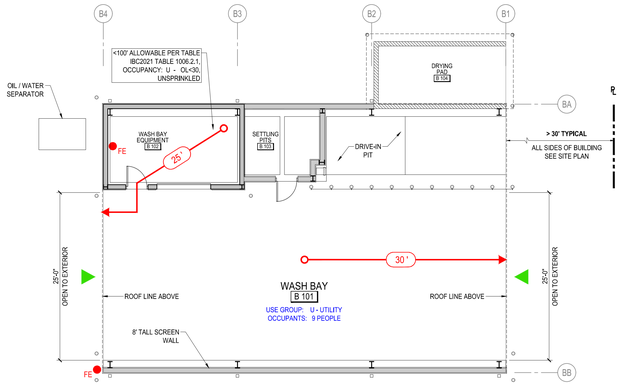

BUILDING B (Non-Sprinkled)		
Use Group	Area	Occupants
WASH BAY (U - UTILITY)	**2,597 SF**	**8.7**

2 G1.1 BUILDING B LIFE SAFETY PLAN

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

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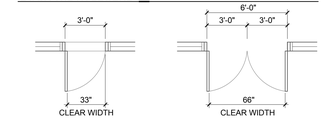
DOOR WIDTH LEGEND



EXIT CAPACITY 220 OCCUPANTS
33" CLEAR WIDTH / 0.15 PER OCCUPANT

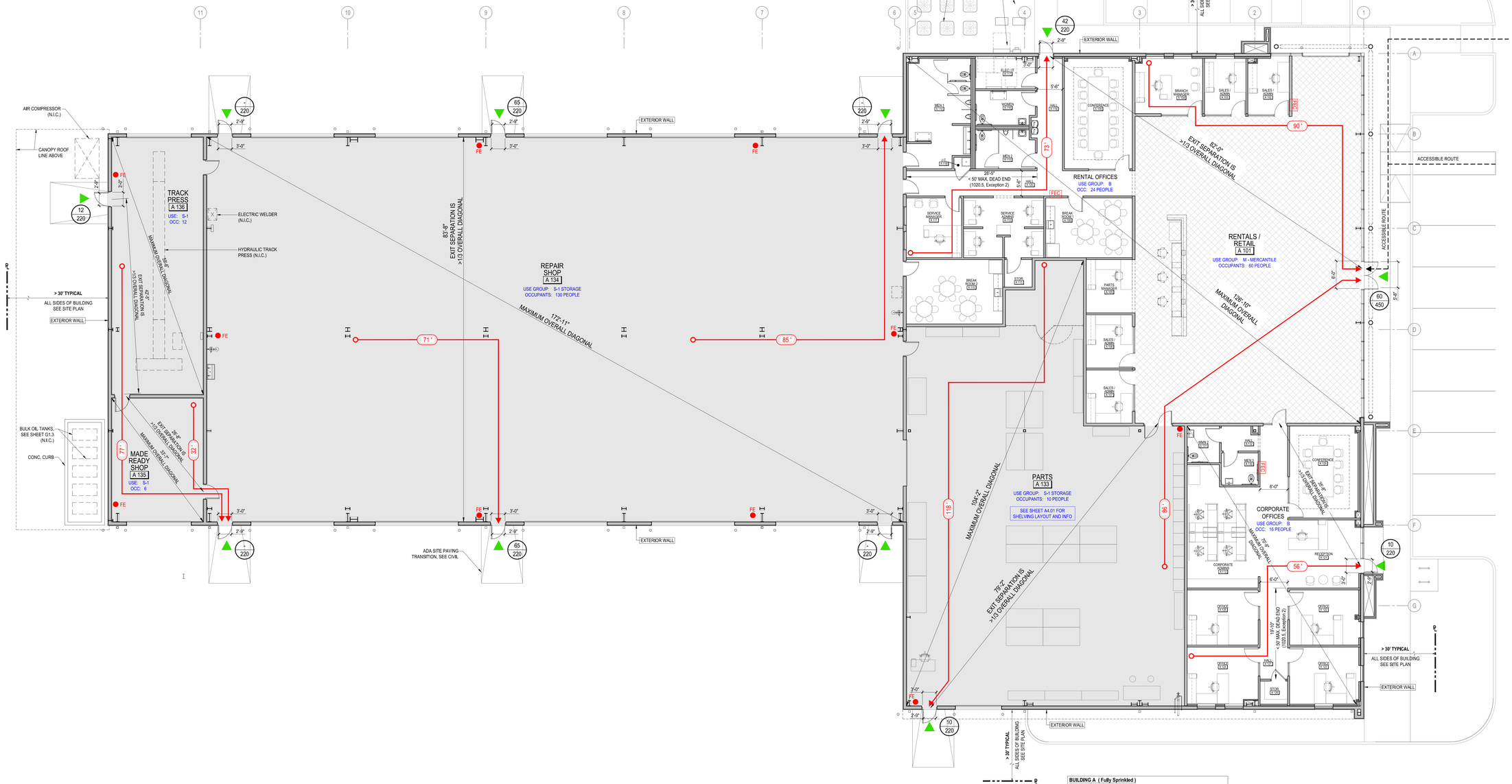
EXIT CAPACITY 440 OCCUPANTS
66" CLEAR WIDTH / 0.15 PER OCCUPANT

LIFESAFETY LEGEND

- 1 HR RATED PARTITION WALL
- FEC — SEMI-RECESSED FIRE EXTINGUISHER CABINET
- FE — FIRE EXTINGUISHER AND WALL BRACKET
- 25'-0" — EXIT ACCESS TRAVEL DISTANCE
- 25 / 220 — NUMBER OF OCCUPANTS / OCCUPANCY AVAILABLE PER WIDTH OF DOOR
- EXIT

FIRE EXTINGUISHER NOTES:

1) ALL EXTINGUISHERS TO BE UL RATED ABC MULTI-PURPOSE DRY CHEMICAL.
2) EXTINGUISHERS TO BE 10 LB, UNLESS NOTED OTHERWISE.
3) ALL EXTINGUISHERS TO BE INSTALLED AT A MAXIMUM OF 48" ABOVE THE FINISHED FLOOR



PLAN NOTES:
1) ALL DOORS EQUIPPED WITH PANIC HARDWARE. SEE A10.02
2) NO DELAYED EGRESS LOCKS.
3) NO ELECTROMAGNETIC LOCKS.
4) NO HOLD OPEN DEVICES.
5) NO EMERGENCY ESCAPE WINDOWS.

BUILDING A (Fully Sprinkled)		
Use Group	Area	Occupants
OFFICE - RENTALS (B - BUSINESS)	3,469 SF	23.1
OFFICE - CORPORATE (B - BUSINESS)	2,397 SF	16.0
SALES FLOOR (M - MERCANTILE)	3,555 SF	59.3
PARTS STORAGE (S1 - STORAGE)	4,773 SF	9.5
REPAIR SHOP (S1 - STORAGE)	12,977 SF	129.8
TRACK PRESS (S1 - STORAGE)	1,179 SF	11.8
MAKE READY (S1 - STORAGE)	578 SF	5.8
TOTALS	**28,927 SF**	**255.2**

1 G1.1 BUILDING A LIFE SAFETY PLAN

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

N

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

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Project Location

WPI - BATON ROUGE
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BATON ROUGE, LA 70817

Drawing Title

LIFE SAFETY PLANS

Seal

Date:

Drawn By:

Checked By:

Project No:

Drawing No.

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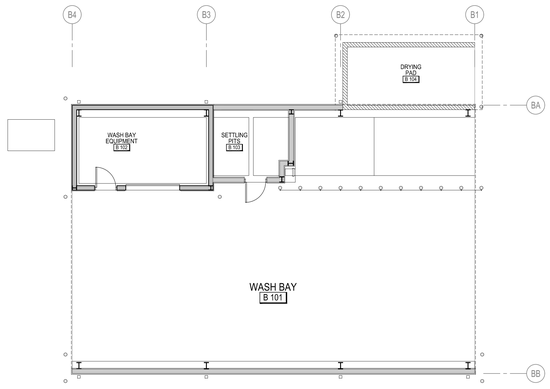


2 G1.2 — BUILDING B HAZARDOUS MATERIAL STORAGE PLAN — SCALE: 1/8"=1'-0"

HAZARDOUS MATERIALS STORAGE CONDITIONS SUMMARY

**Building is fully sprinkled, see code summary Sheet G0.1.

IBC/IFC Hazard Class	Hazard Class	Maximum Inventory Amount			2021 IBC/IFC Maximum Allowable Quantity per Tables 307.1 (1) & 307.1(2)		
		Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)	Solid pounds (cubic feet)	Liquid gallons (pounds)	Gas (cubic feet at NTP)
Combustible Dust	-						
Combustible Fiber	Loose Baled						
Combustible Liquid	II IIIA IIIB		**2,250**			Unlimited [f]	
Cryogenic, Flammable	-						
Cryogenic Inert	-						
Cryogenic, Oxidizing							
Explosives	Division 1.1 - 1.6						
Flammable Gas	Gaseous Liquefied			**580**			2,000 [d]
Flammable Liquid	IA IB & IC		**10**			60 [d]	
Flammable Liquid, combination (1A, 1B, 1C)	-						
Flammable Solid	-						
inert Gas	Gaseous Liquefied						
Organic Peroxide	UD I II III IV V						
Oxidizer	4 3 2 1						
Oxidizing Gas	Gaseous Liquefied			**976**			3,000 [d]
Pyrophoric	-						
Unstable (reactive)	4 3 2 1						
Water reactive	3 2 1						
Corrosives		**1,500**			10,000 [d]		
Highly Toxics							
Toxics			**145**			1,000 [d]	

d. Maximum allowable quantities shall be increased 100 percent in buildings equipped throughout with an automatic sprinkler system in accordance Section 903.3.1.1. Where Note e also applies, the increase for both notes shall be applied accumulatively.
e. Maximum allowable quantities shall be increased 100 percent where stored in approved storage cabinets, gas cabinets or exhausted enclosures as specified in the International Fire Code. Where Note d also applies, the increase for both notes shall be applied accumulatively.
f. The permitted quantities shall not be limited in a building equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1

HAZARDOUS MATERIALS INVENTORY REPORT

**See floor plans this sheet for material storage locations

COMBUSTIBLE LIQUID - III B HAZARD CLASS

Product Name	liquid (gal)
Red Grease	55
Automatic Transmission Fluid	110
Motor Oil	1200
Hydraulic Oil	400
Waste Oil	400
Parts Cleaner	30
Degreaser	55
Total:	**2,250**

FLAMMABLE GAS - GASEOUS

Product Name	Gas (Ft^3 at NTP)
Acetylene	580
Total:	**580**

FLAMMABLE LIQUID - IA

Product Name	liquid (gal)
Eco-safe enamel	10
Total:	**10**

OXIDIZING GAS - GASEOUS

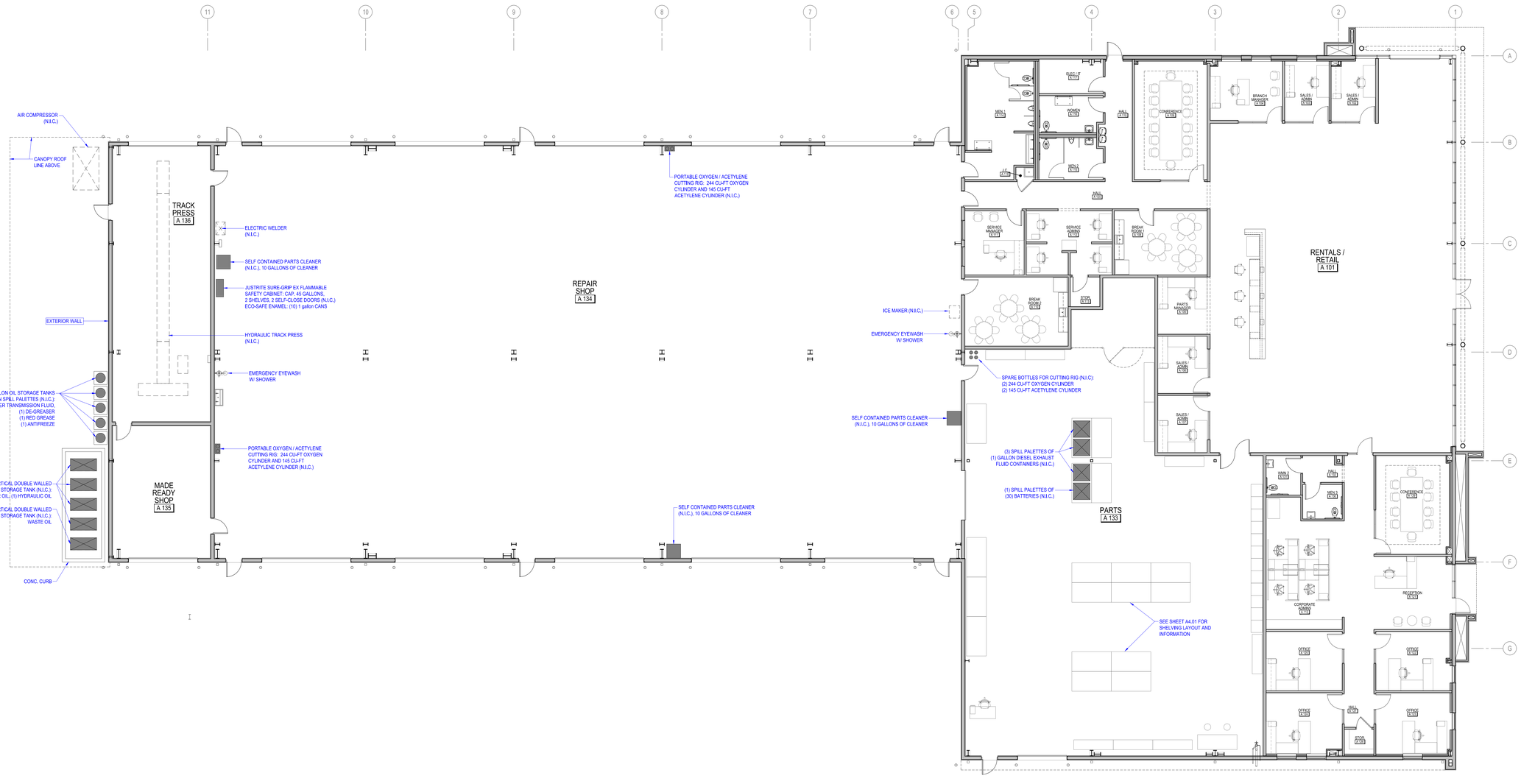
Product Name	Gas (Ft^3 at NTP)
Oxygen	976
Total:	**976**

CORROSIVES

Product Name	Solid pounds.
Individual Batteries	1500
Stored on spill palettes.	
Total:	**1,500**

TOXICS

Product Name	liquid (gal)
Diesel Exhaust Fluid	90
Antifreeze	55
Total:	**145**



1 G1.2 — BUILDING A HAZARDOUS MATERIAL STORAGE PLAN — SCALE: 1/8"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Drawing Title

HAZARDOUS MATERIAL STORAGE PLANS

Seal

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

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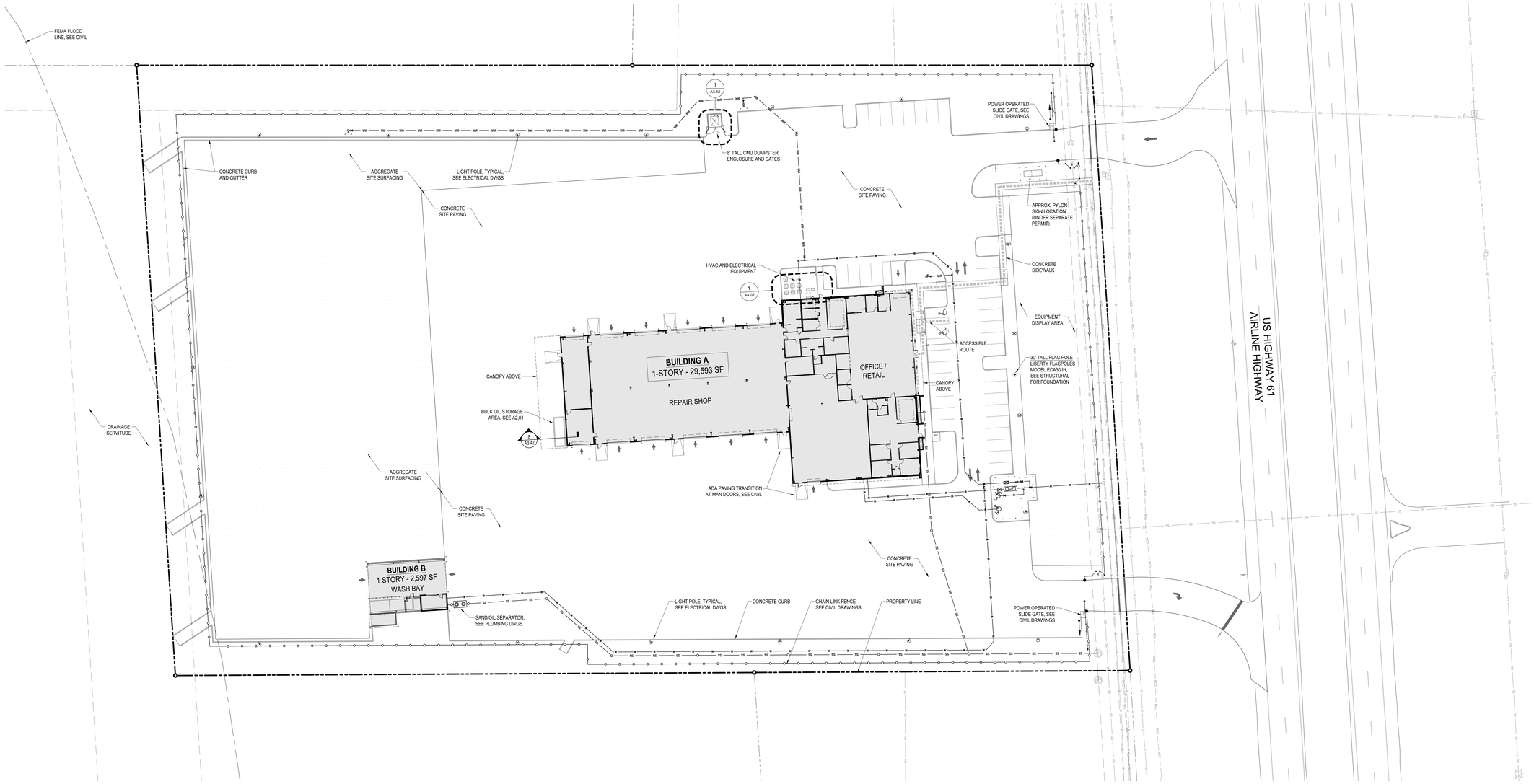

1 A1.01 ARCHITECTURAL SITE PLAN — SCALE: 1:30

N

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General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Drawing Title

ARCHITECTURAL SITE PLAN

Seal

JOSEPH ANTUNOVICH
No. 18893
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A1.01

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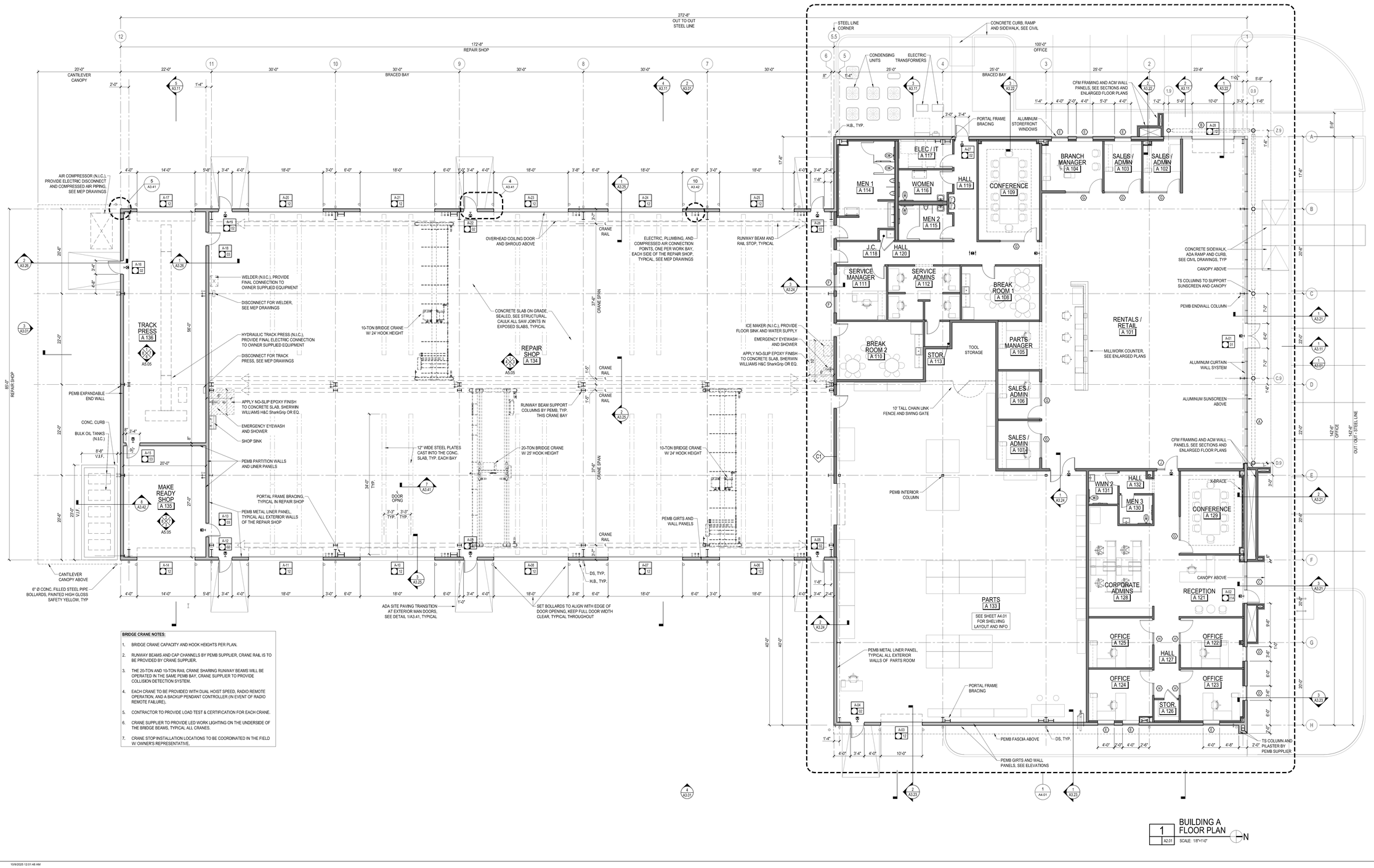

BRIDGE CRANE NOTES:

1. BRIDGE CRANE CAPACITY AND HOOK HEIGHTS PER PLAN.
2. RUNWAY BEAMS AND CAP CHANNELS BY PEMB SUPPLIER, CRANE RAIL IS TO BE PROVIDED BY CRANE SUPPLIER.
3. THE 20-TON AND 10-TON RAIL CRANE SHARING RUNWAY BEAMS WILL BE OPERATED IN THE SAME PEMB BAY, CRANE SUPPLIER TO PROVIDE COLLISION DETECTION SYSTEM.
4. EACH CRANE TO BE PROVIDED WITH DUAL HOIST SPEED, RADIO REMOTE OPERATION, AND A BACKUP PENDANT CONTROLLER (IN EVENT OF RADIO REMOTE FAILURE).
5. CONTRACTOR TO PROVIDE LOAD TEST & CERTIFICATION FOR EACH CRANE.
6. CRANE SUPPLIER TO PROVIDE LED WORK LIGHTING ON THE UNDERSIDE OF THE BRIDGE BEAMS, TYPICAL ALL CRANES.
7. CRANE STOP INSTALLATION LOCATIONS TO BE COORDINATED IN THE FIELD W/ OWNER'S REPRESENTATIVE.

1 A2.01 — BUILDING A FLOOR PLAN — SCALE: 1/8"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Structural Engineer

raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6507

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - FLOOR PLAN

Seal

JOSEPH ANTUNOVICH — No. 18844 — REGISTERED ARCHITECT

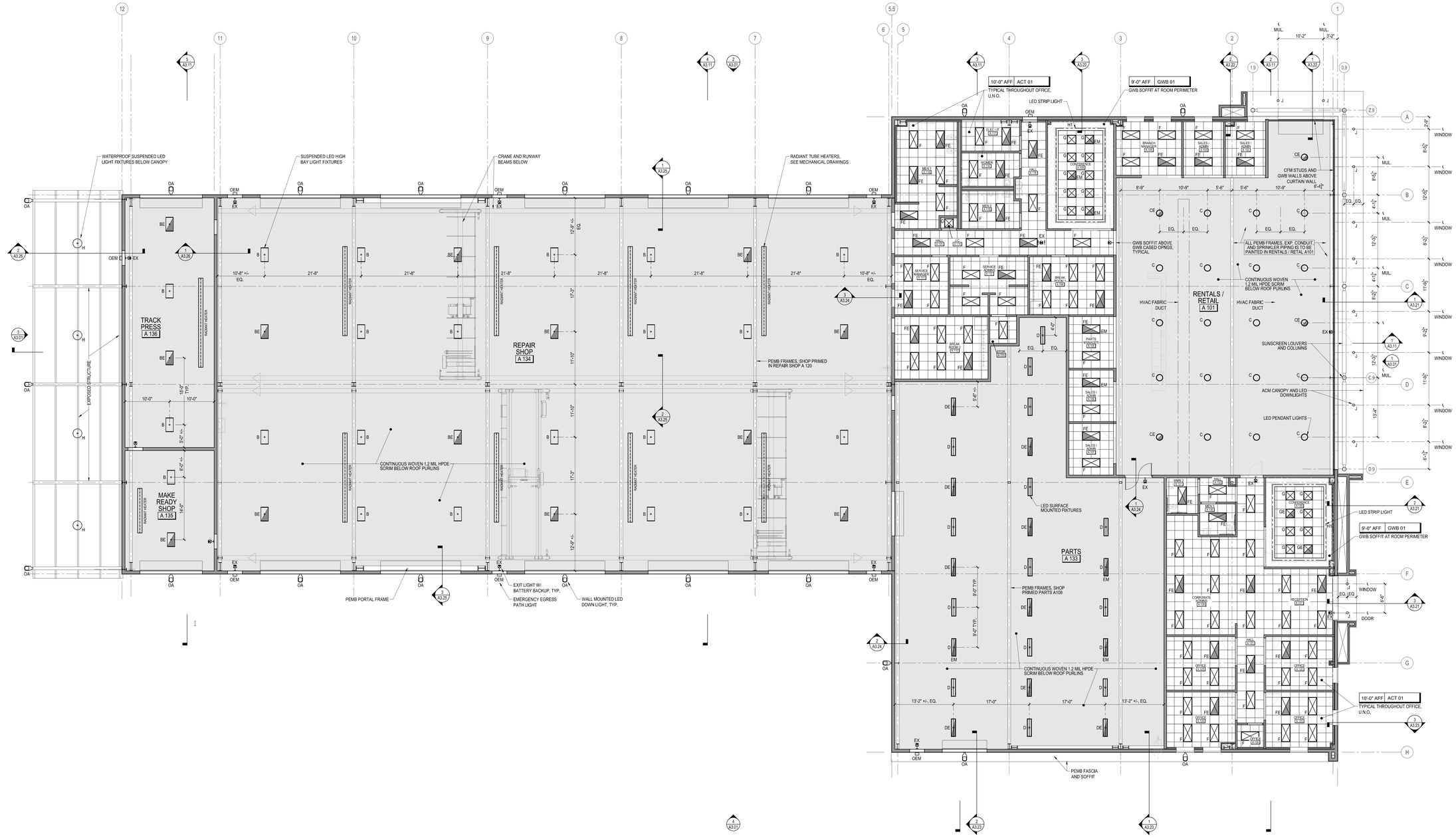
Date:	
Drawn By:	
Checked By:	
Project No:	

Drawing No.

A2.01

Copyright 2025

10/9/2025 12:01:48 AM



PLAN NOTES:

1) SEE ELECTRIC DRAWINGS FOR FIXTURE TYPES AND INFO.
2) COORDINATE CLEARANCES FOR RAIL CRANES AND OVERHEAD DOORS WITH ALL FIXTURES, PIPING, CONDUIT, AND SYSTEMS SUSPENDED FROM THE STRUCTURE.

1 BUILDING A REFLECTED CEILING PLAN — N
A2.02 SCALE: 1/8"=1'-0"

10/9/2025 12:02:08 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
WPI
WPI ADVANCE INDUSTRIES COMPANY
12325 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-0448

Owner's Representative
CPRT
COMMERCIAL PROPERTIES REALTY TRUST
4150 Main Street
Baton Rouge, LA 70801
Phone: (225) 924-7206

Architect
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Fax: 312.266.7123

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Structural Engineer
raSmith
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(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers
INGENUITY ENGINEERS, INC.
5375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6997

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

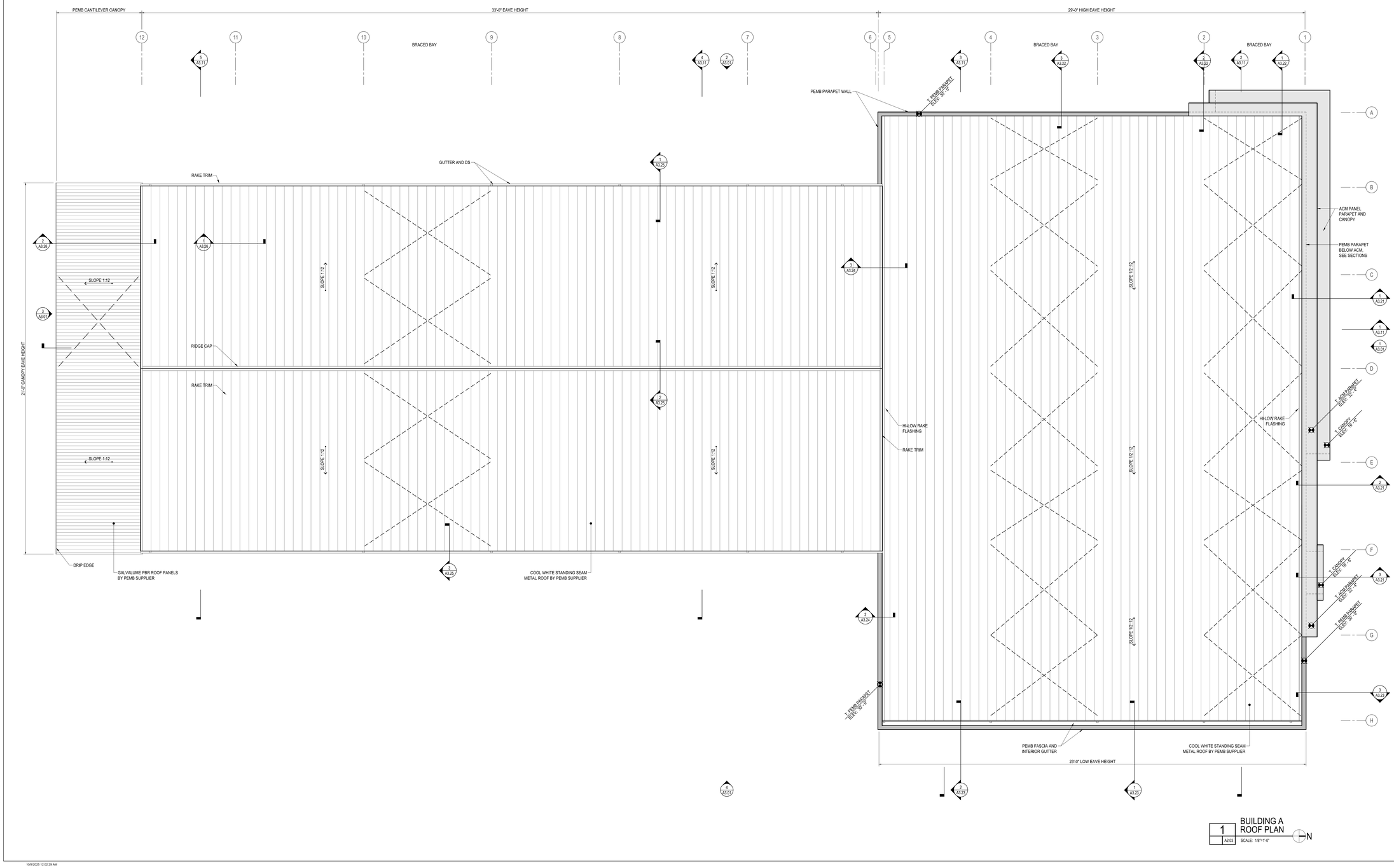
Drawing Title
BUILDING A - RCP

Seal
JOSEPH ANTUNOVICH
No. 4881
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A2.02

Copyright 2025



1 BUILDING A ROOF PLAN
A2.03 SCALE: 1/8"=1'-0"

N

10/9/2025 12:02:29 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A FRANCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-0448

Owner's Representative

CPRT
COMMERCIAL PROPERTIES REALTY TRUST
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Baton Rouge, LA 70801
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Structural Engineer

raSmith
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BROOKFIELD, WI 53005-5938
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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - ROOF PLAN

Seal

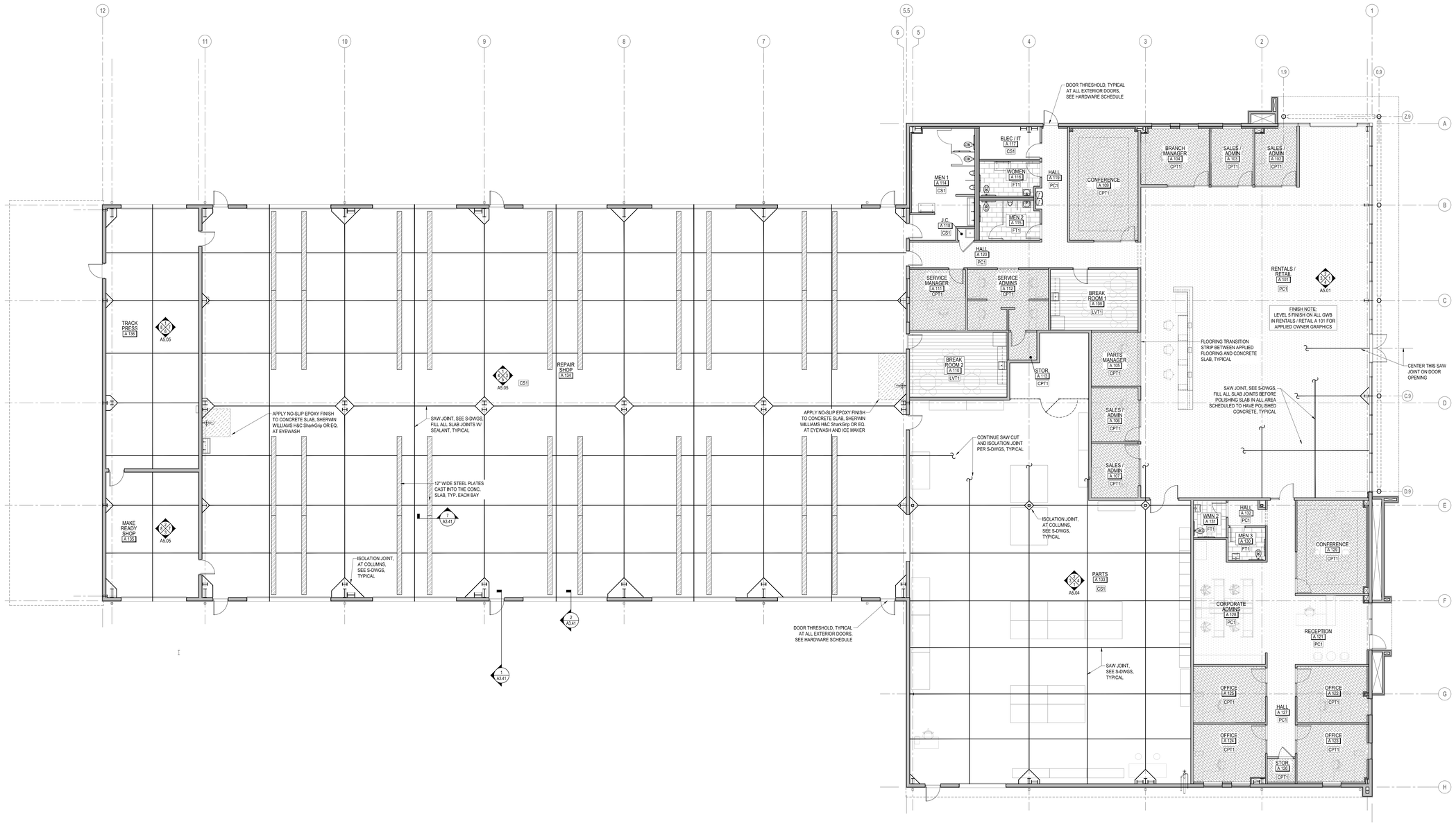
JOSEPH ANTUNOVICH
No. 6201
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A2.03

Copyright 2025



NOTE:
SEE FINISH LEGEND SHEET A10.04

1 A2.04 BUILDING A FINISH PLAN
SCALE: 1/8"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
W P I
A PEARCE INDUSTRIES COMPANY
12320 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-0448

Owner's Representative
CPRT
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Architect
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Structural Engineer
raSmith
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16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 · rasmith.com

M.E.P. & F.P. Engineers
INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6997

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

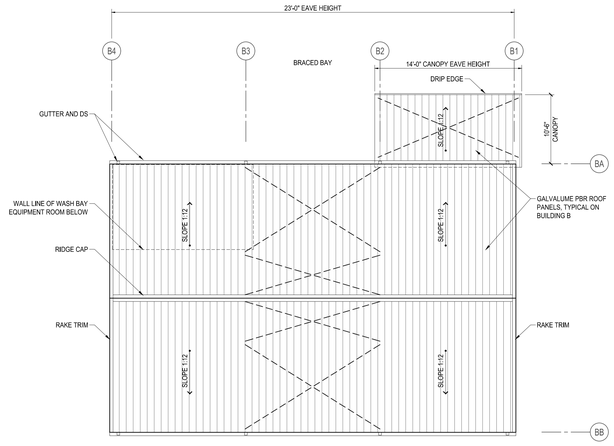
Drawing Title
BUILDING A - FINISH PLAN

Seal
JOSEPH ANTUNOVICH
No. 6012
REGISTERED ARCHITECT
STATE OF ILLINOIS

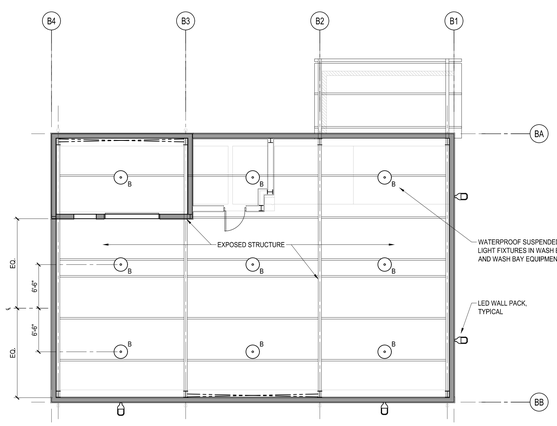
Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A2.04

Copyright 2025

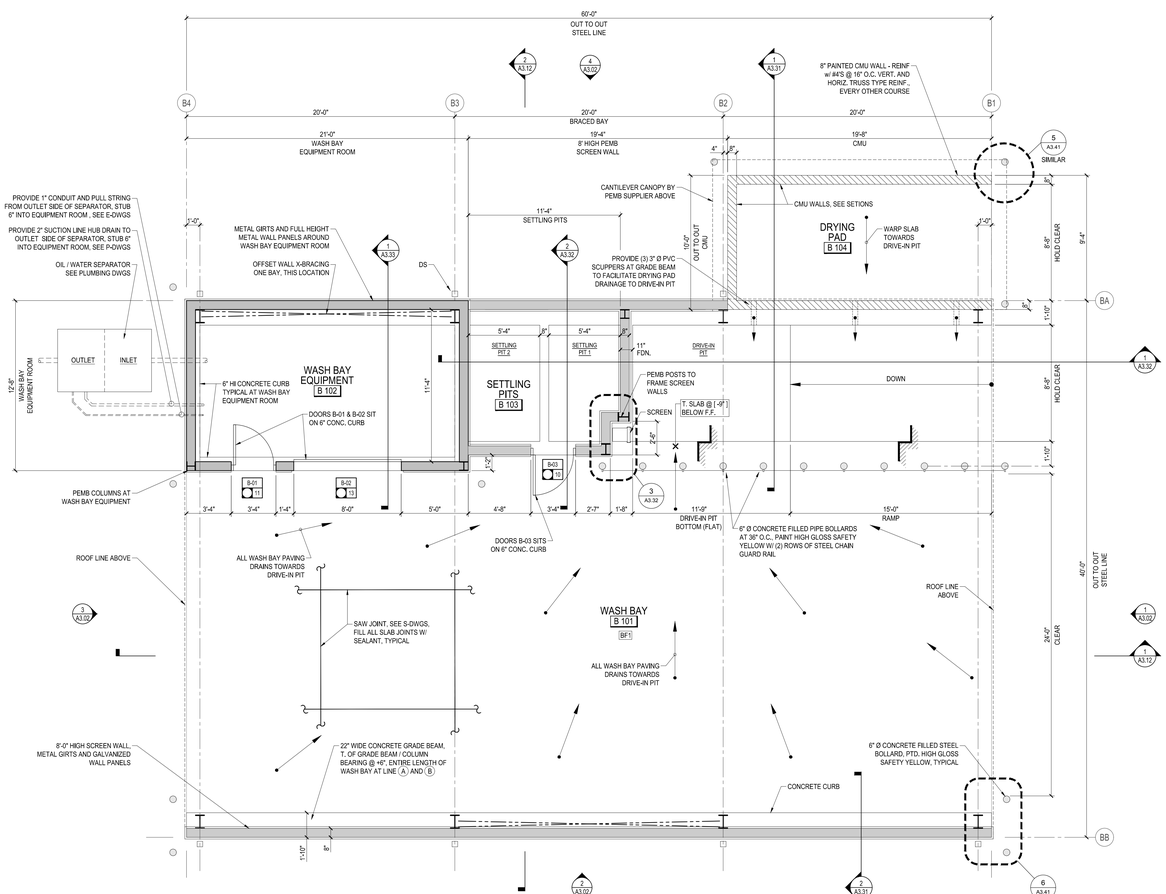


3 A2.11 **BUILDING B ROOF PLAN**
SCALE: 1/8"=1'-0"



NOTE:
SEE ELECTRIC DRAWINGS FOR FIXTURE TYPES AND INFO

2 A2.11 **BUILDING B REFLECTED CEILING PLAN**
SCALE: 1/8"=1'-0"



PLAN NOTES:
1) ALL METAL BUILDING COMPONENTS IN THE WASH BAY TO BE GALVANIZED
2) ALL CONCRETE SLABS TO HAVE CRYSTALLINE WATER PROOFING ADMIXTURE, KRYSTOL INTERNAL MEMBRANE (OR EQUAL)
3) ALL CONCRETE SLABS TO BE HEAVY BROOM FINISH.
4) CONTINUOUSLY CAULK ALL SAW CUTS

1 A2.11 **BUILDING B FLOOR PLAN**
SCALE: 1/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
WPI
PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-0448

Owner's Representative
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COMMERCIAL PROPERTIES REALTY TRUST
430 Main Street
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Architect
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Structural Engineer
raSmith
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6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6307

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
BUILDING B - FLOOR PLAN, ROOF PLAN, RCP

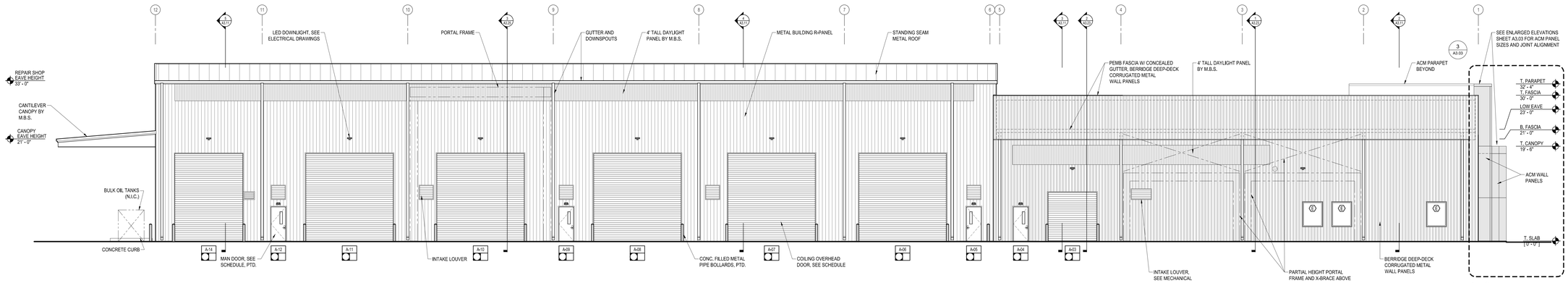
Seal
JOSEPH ANTUNOVICH
REG. NO. 43931
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

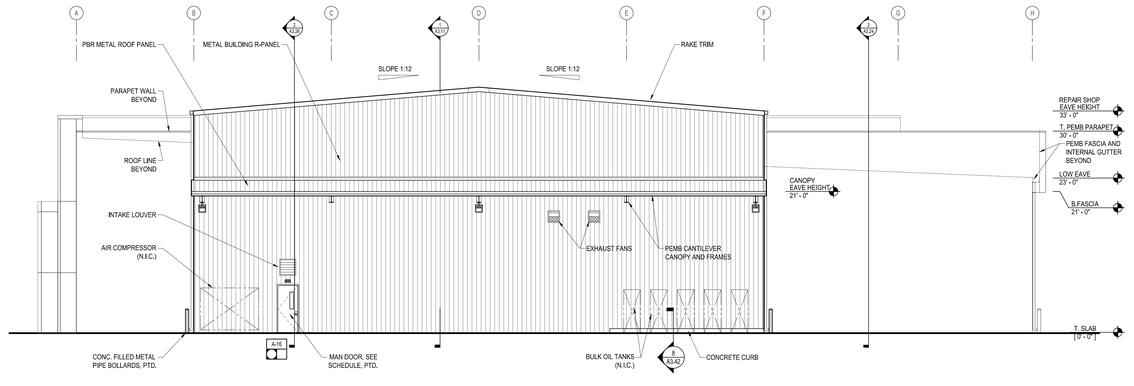
Drawing No.
A2.11

Copyright 2025

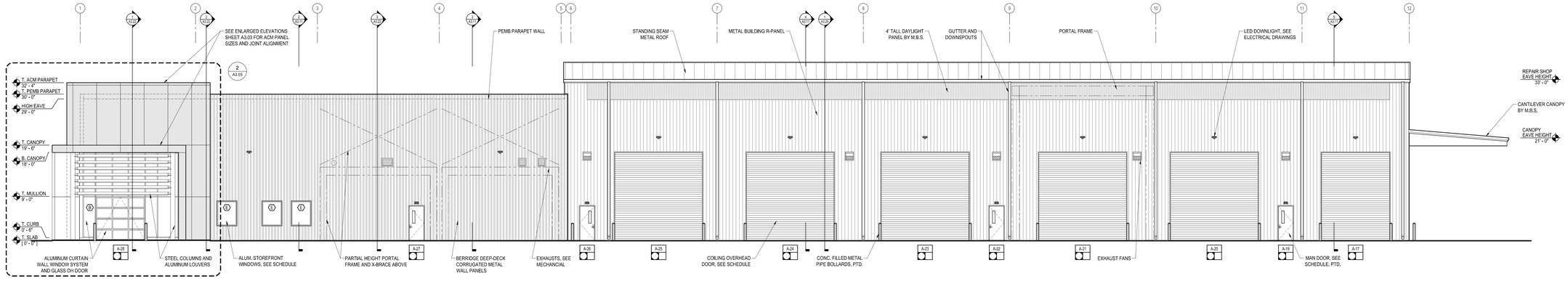
10/9/2025 12:03:15 AM



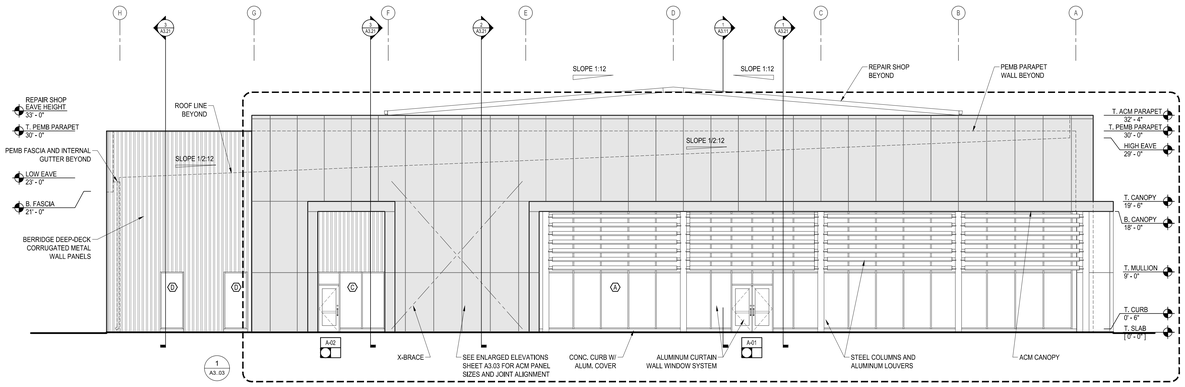
4 BUILDING A ELEVATION
A3.01 SCALE: 1/8"=1'-0"



3 BUILDING A ELEVATION
A3.01 SCALE: 1/8"=1'-0"



2 BUILDING A ELEVATION
A3.01 SCALE: 1/8"=1'-0"



NOTE:
SEE EXTERIOR FINISH LEGEND, SHEET A10.04 FOR COLORS AND ADDITIONAL INFORMATION

1 BUILDING A ELEVATION
A3.01 SCALE: 1/8"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12320 SOUTH MAIN
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Owner's Representative

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INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - ELEVATIONS

Seal

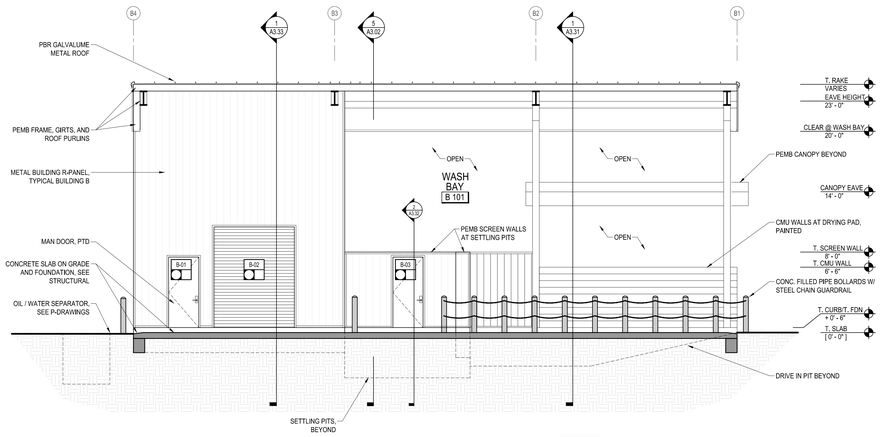
JOSEPH ANTUNOVICH
No. 6
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

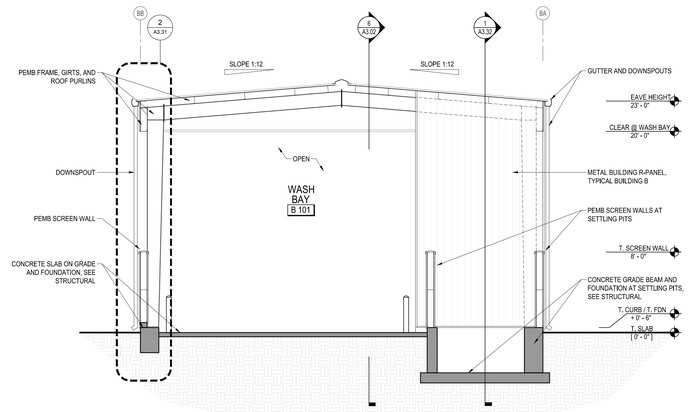
Drawing No.

A3.01

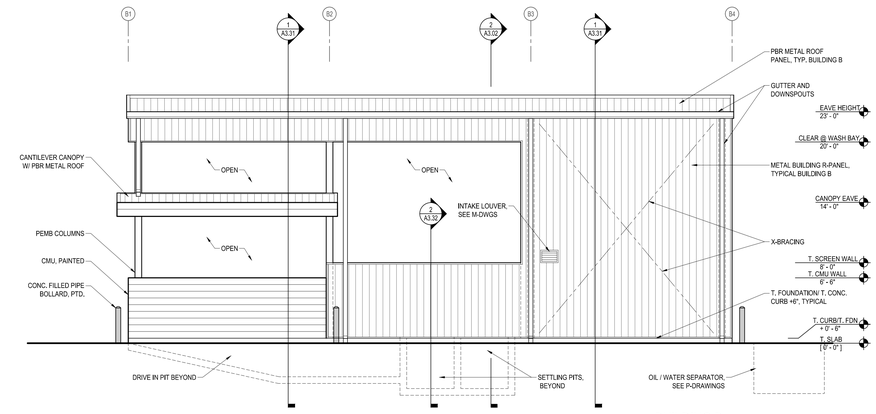
Copyright 2025



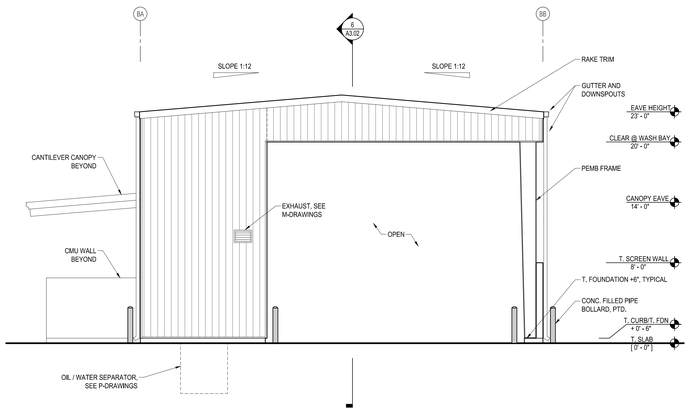
6 BUILDING B SECTION
A3.02 SCALE: 3/16"=1'-0"



5 BUILDING B SECTION
A3.02 SCALE: 3/16"=1'-0"



4 BUILDING B ELEVATION
A3.02 SCALE: 3/16"=1'-0"



3 BUILDING B ELEVATION
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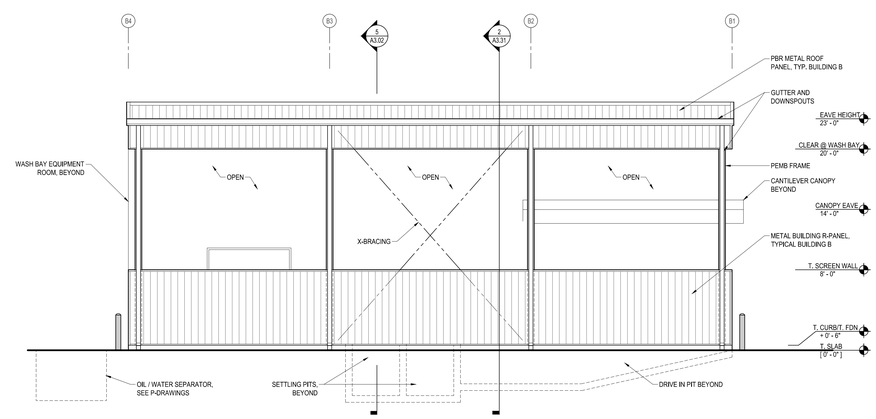

2 BUILDING B ELEVATION
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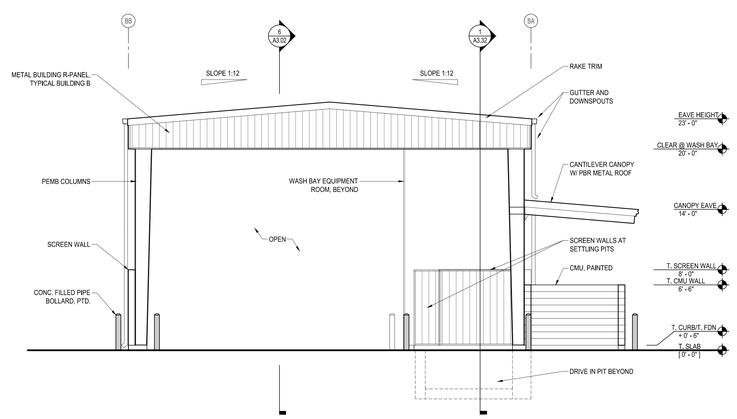

NOTE:
SEE EXTERIOR FINISH LEGEND, SHEET A10.04
FOR COLORS AND ADDITIONAL INFORMATION

1 BUILDING B ELEVATION
A3.02 SCALE: 3/16"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-0448

Owner's Representative

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Civil Engineer

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PHONE: (919)247.6504

Structural Engineer

raSmith
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(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B - ELEVATIONS AND BUILDING SECTIONS

Seal

JOSEPH ANTUNOVICH No. 18843 REGISTERED ARCHITECT

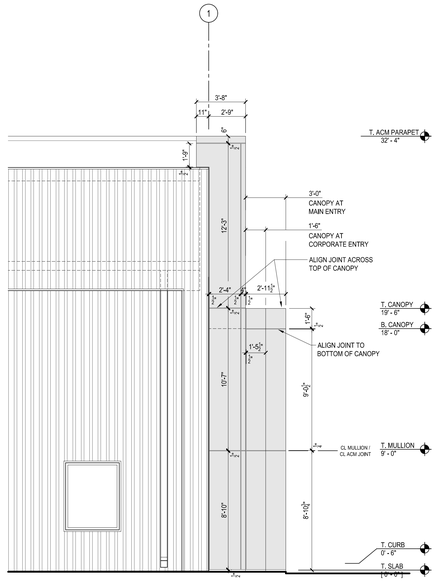
Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.02

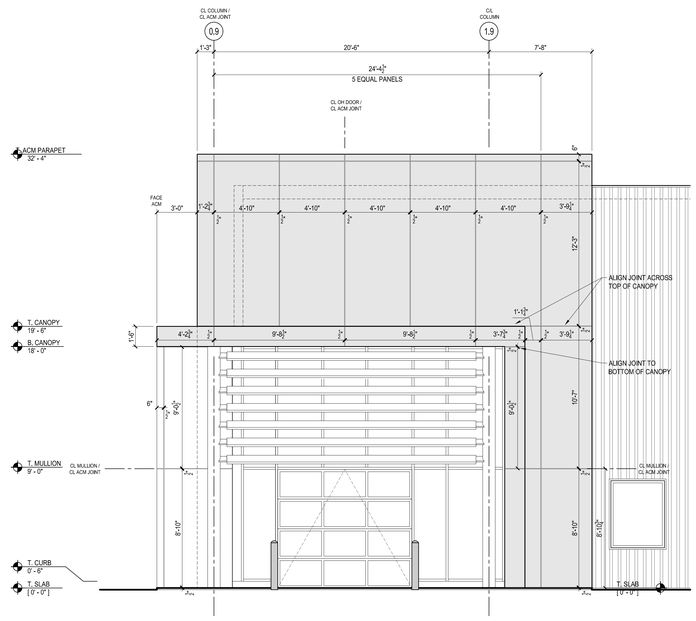
Copyright 2025

10/9/2025 12:03:56 AM



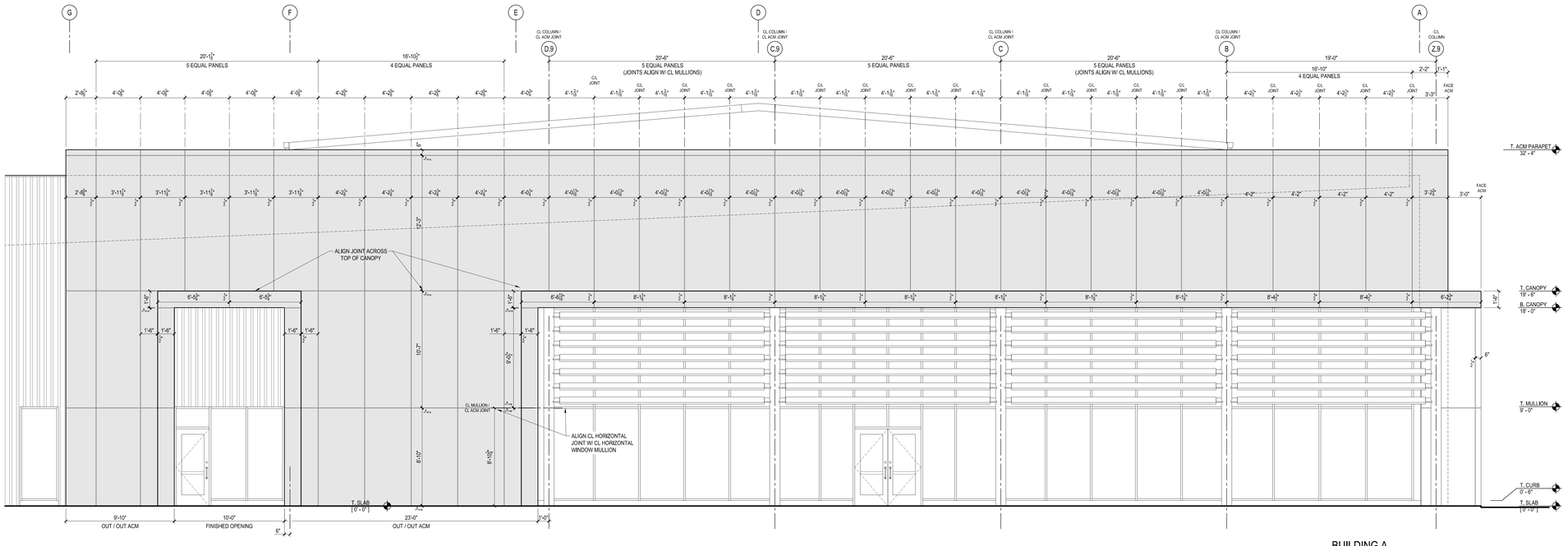
3 BUILDING A
ACM PANEL ELEVATION

A3.03 SCALE: 1/4"=1'-0"



2 BUILDING A
ACM PANEL ELEVATION

A3.03 SCALE: 1/4"=1'-0"



1 BUILDING A
ACM PANEL ELEVATION

A3.03 SCALE: 1/4"=1'-0"

10/9/2025 12:04:14 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12335 SOUTH MAIN
HOUSTON, TX 77035
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Owner's Representative

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Structural Engineer

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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
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PHONE: 407.298.4697

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

ACM PANEL
ELEVATIONS

Seal

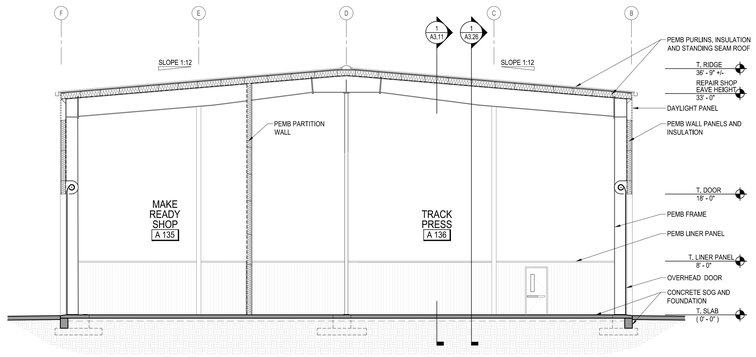
JOSEPH ANTUNOVICH
No. 6023
STATE OF ILLINOIS
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

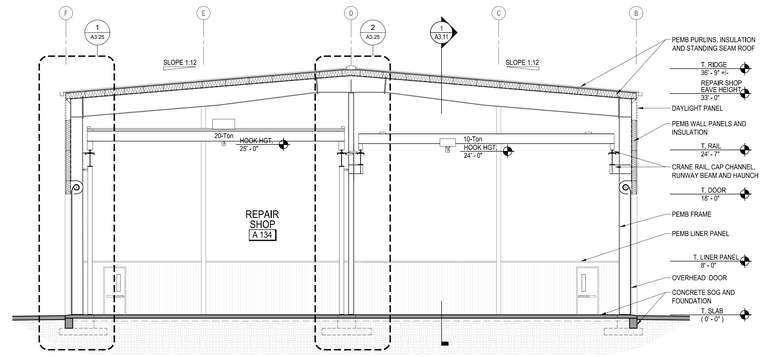
Drawing No.

A3.03

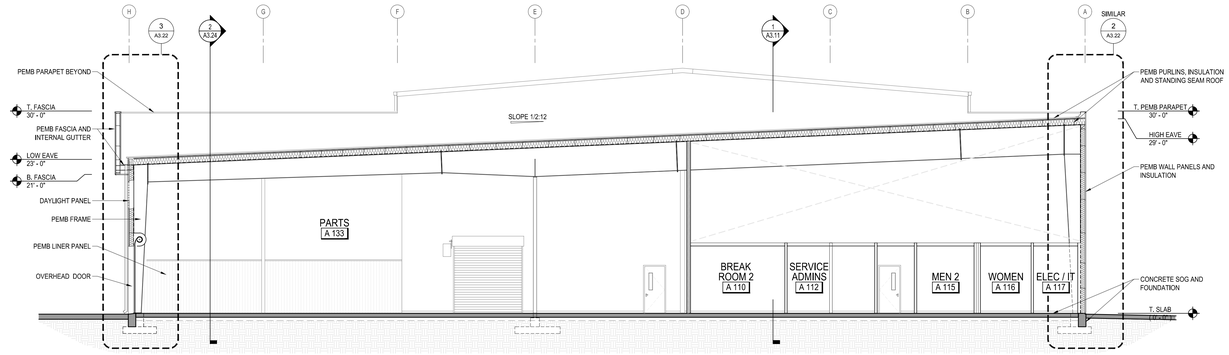
Copyright 2025



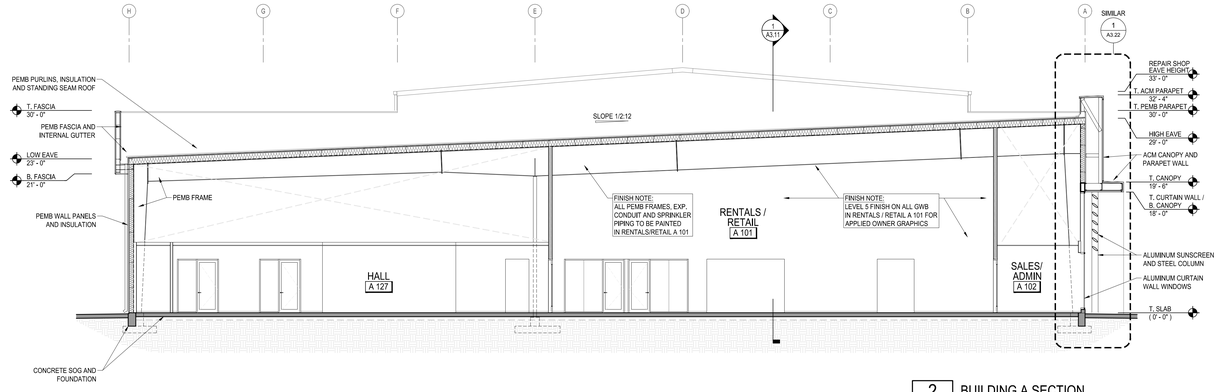
5 BUILDING A SECTION
A3.11 SCALE: 1/8"=1'-0"



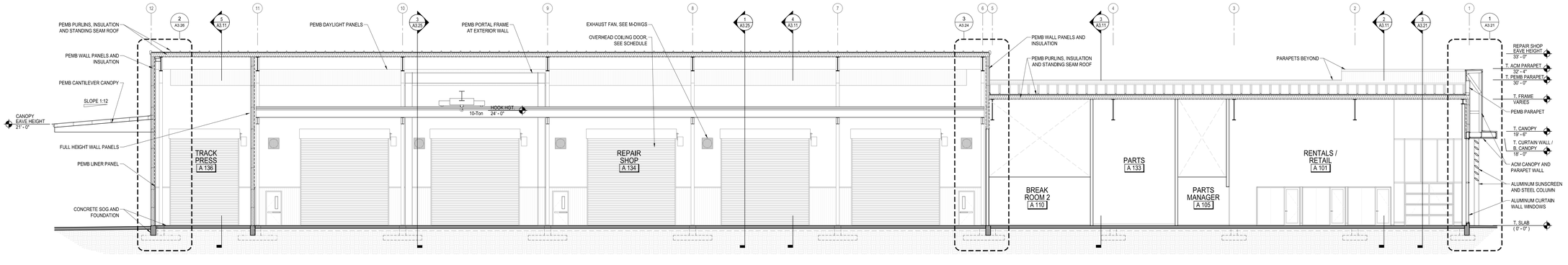
4 BUILDING A SECTION
A3.11 SCALE: 1/8"=1'-0"



3 BUILDING A SECTION
A3.11 SCALE: 1/8"=1'-0"



2 BUILDING A SECTION
A3.11 SCALE: 1/8"=1'-0"



1 BUILDING A SECTION
A3.11 SCALE: 1/8"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

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Baton Rouge, LA 70801
Phone: (225) 924-7206

Architect

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Civil Engineer

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RALEIGH, NC 27603
PHONE: (919)287.0504

Structural Engineer

raSmith
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16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6587

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - BUILDING SECTIONS

Seal

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.11

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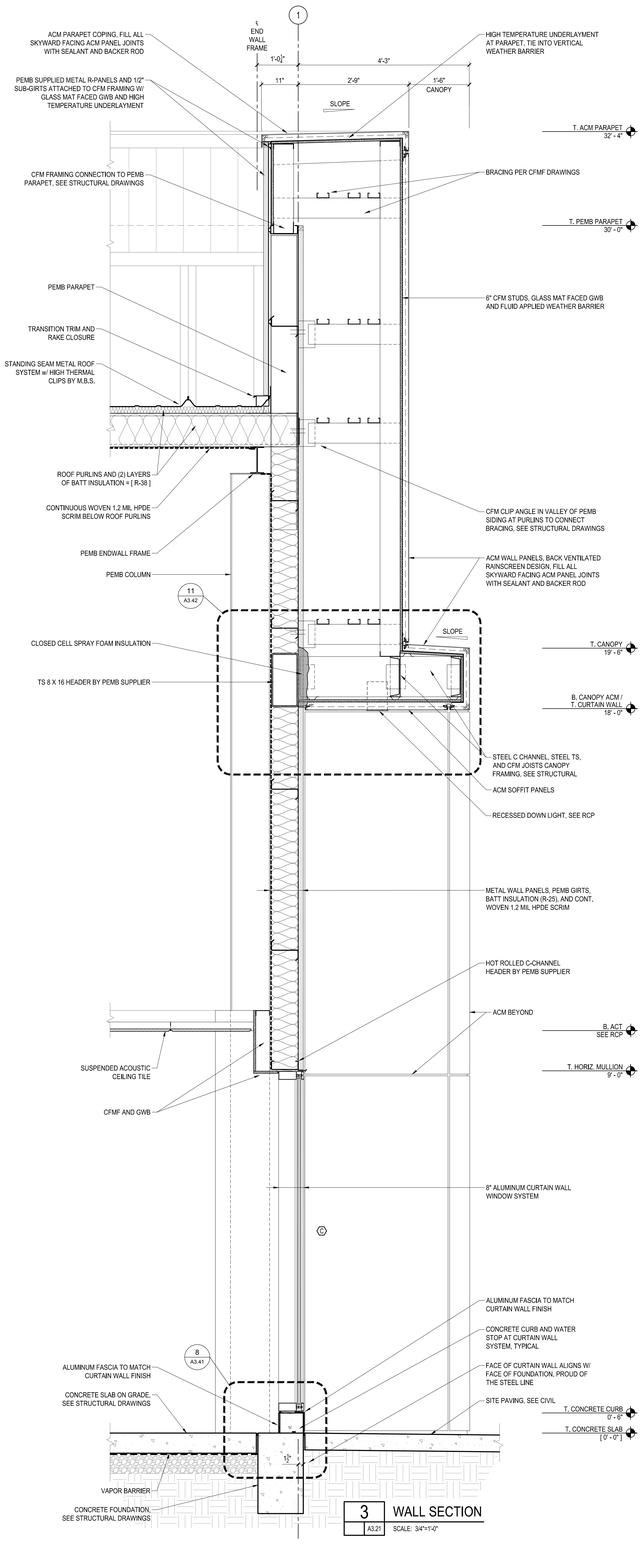
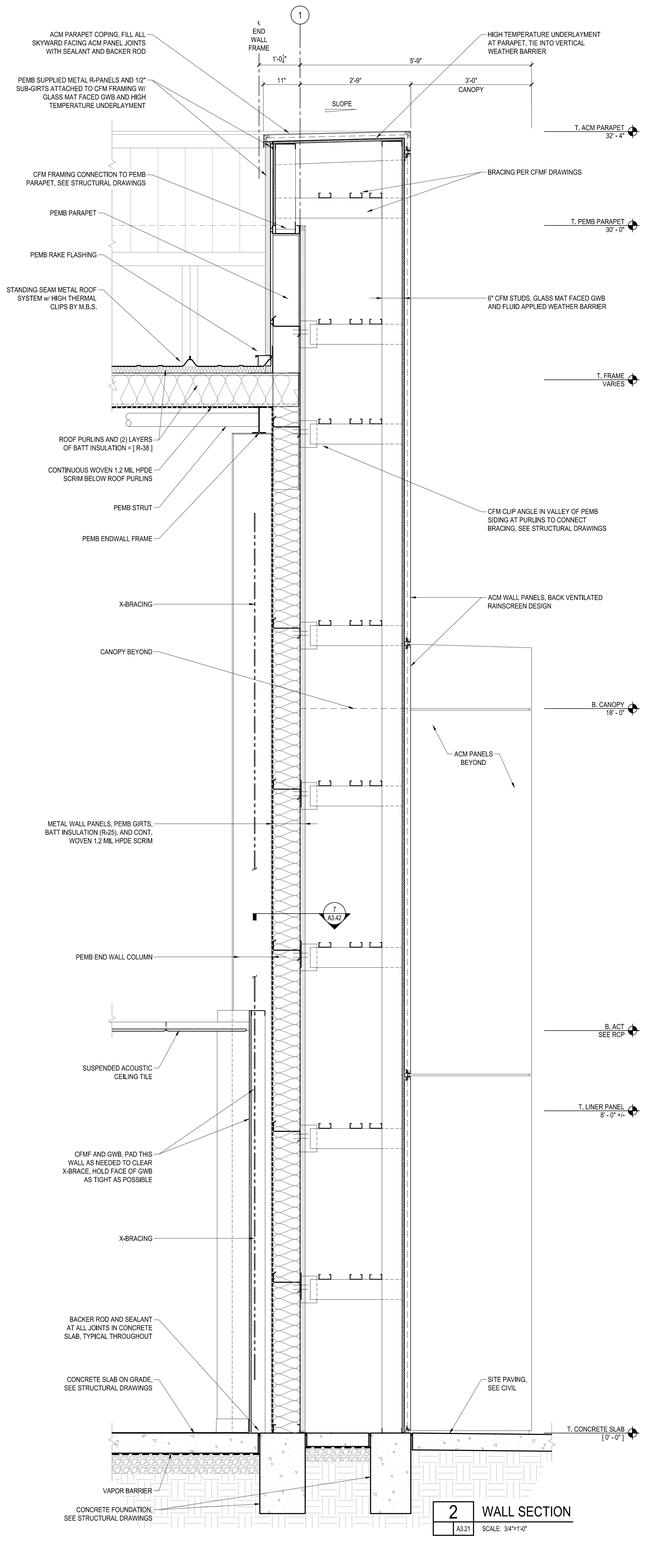
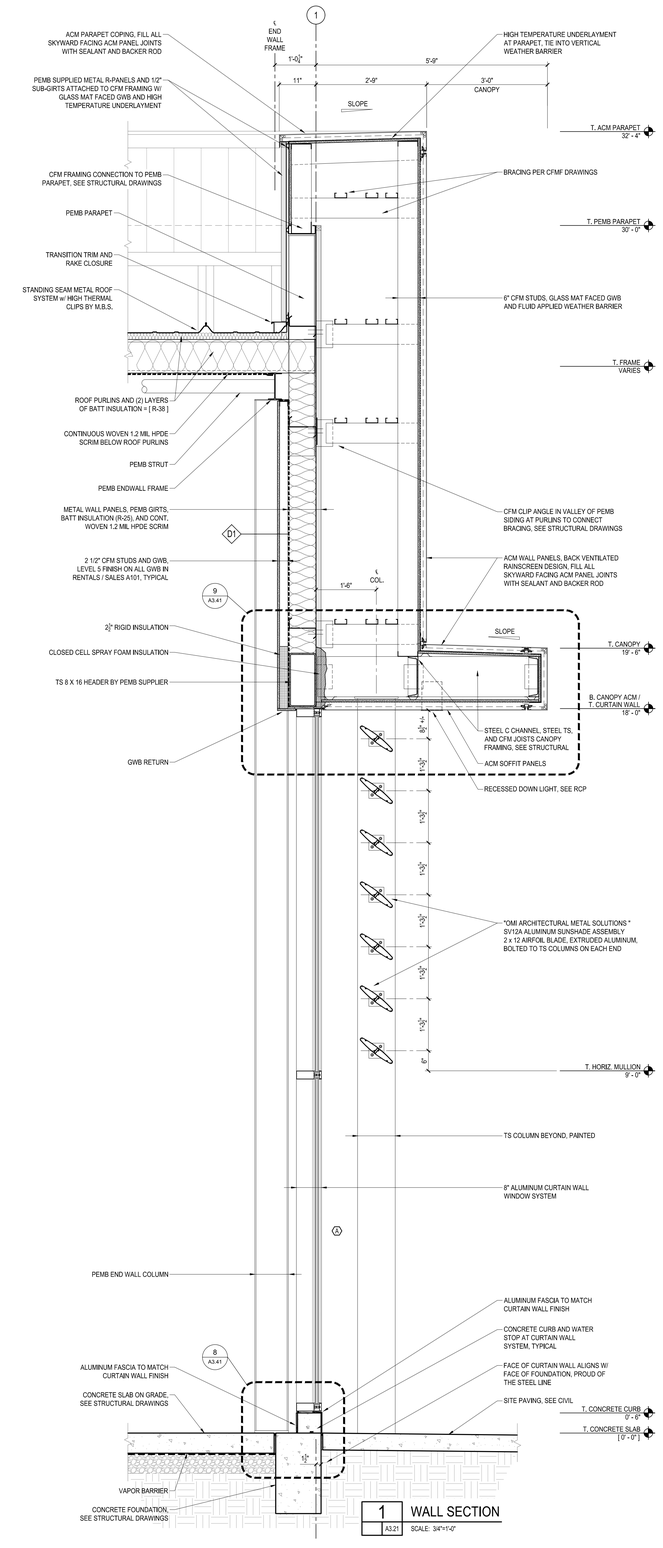


3 WALL SECTION
A3.21 SCALE: 3/4"=1'-0"



2 WALL SECTION
A3.21 SCALE: 3/4"=1'-0"



1 WALL SECTION
A3.21 SCALE: 3/4"=1'-0"

10/9/2025 12:05:00 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
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Owner's Representative

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Baton Rouge, LA 70802
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INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.9587

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

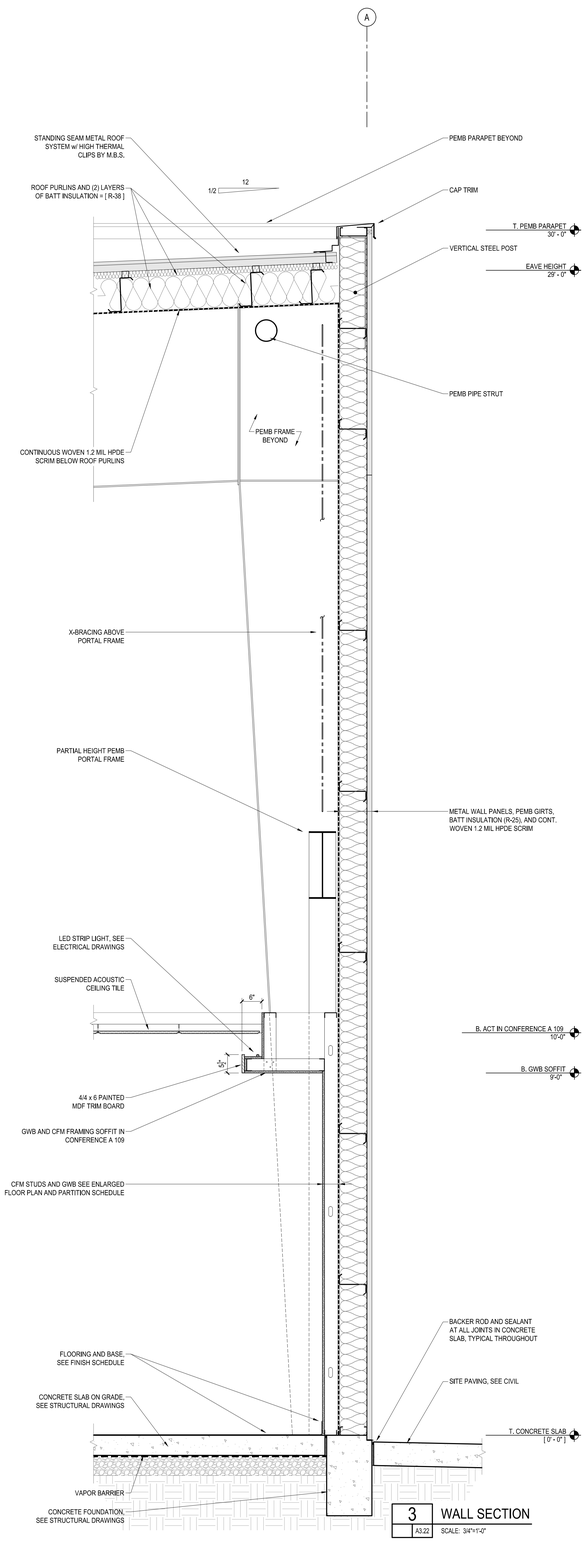
JOSEPH ANTUNOVICH
Reg. No. 43575
REGISTERED ARCHITECT
OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

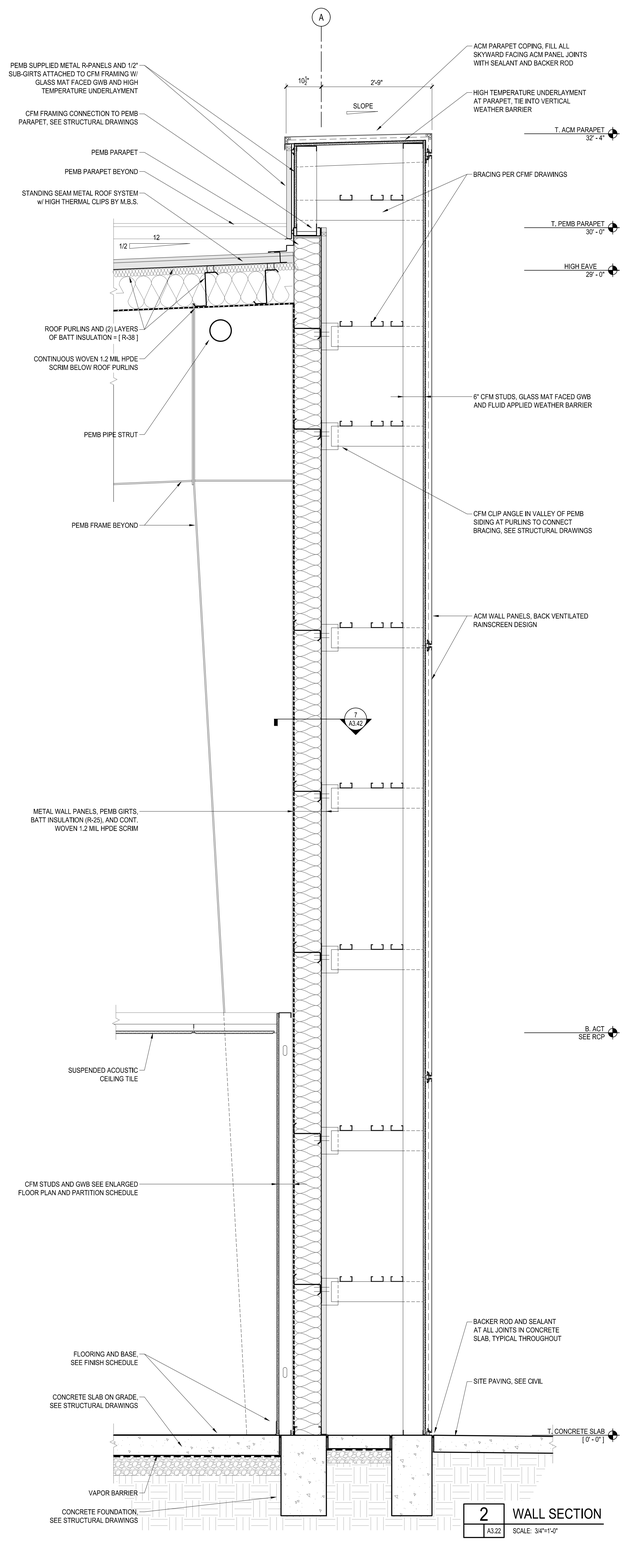
Drawing No.

A3.21

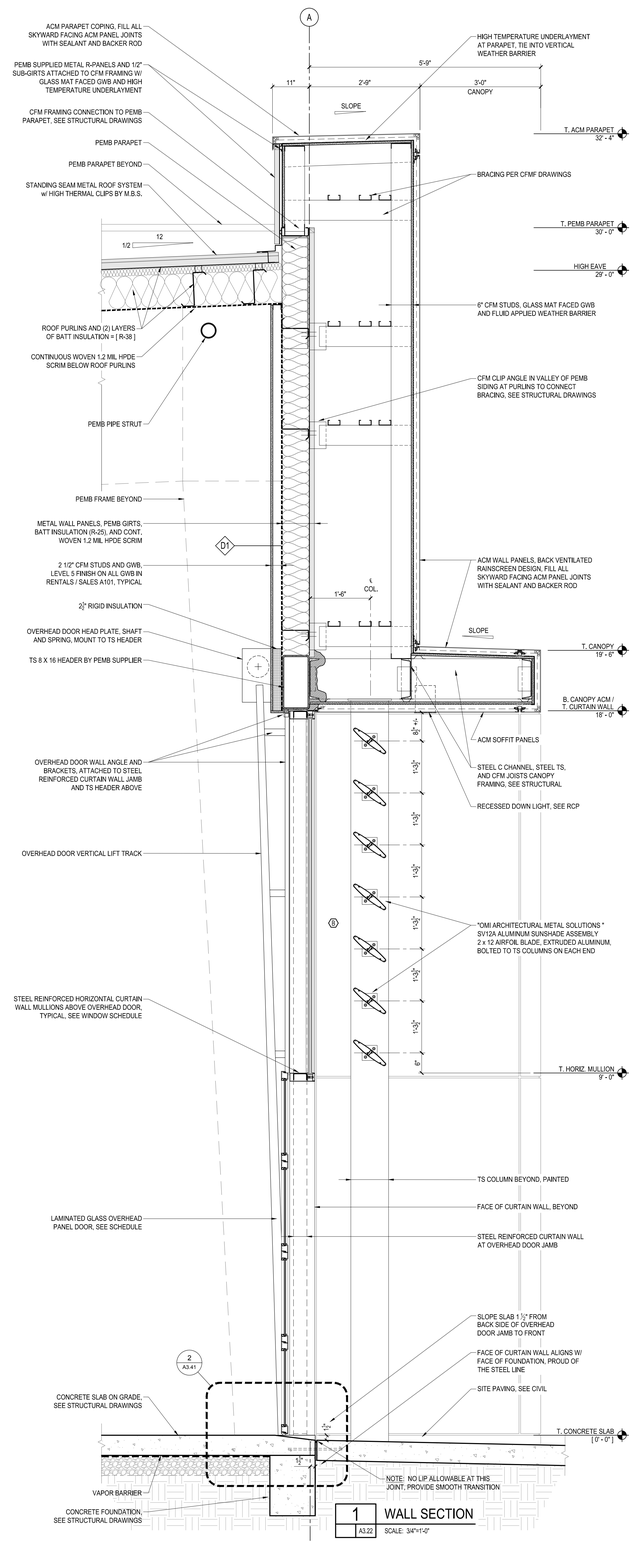
Copyright 2025



3 | A3.22 WALL SECTION
SCALE: 3/4"=1'-0"



2 | A3.22 WALL SECTION
SCALE: 3/4"=1'-0"



1 | A3.22 WALL SECTION
SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

CPRT
CONSTRUCTION PROPERTIES REALTY TRUST
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Baton Rouge, LA 70801
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Fax: 312.266.7123

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10749 W. BLUEMOUND ROAD
BROOKFIELD, WI 53355-9938
(262)781.1000 • rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.4097

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
REG. No. 40534
REGISTERED ARCHITECT
STATE OF ILLINOIS

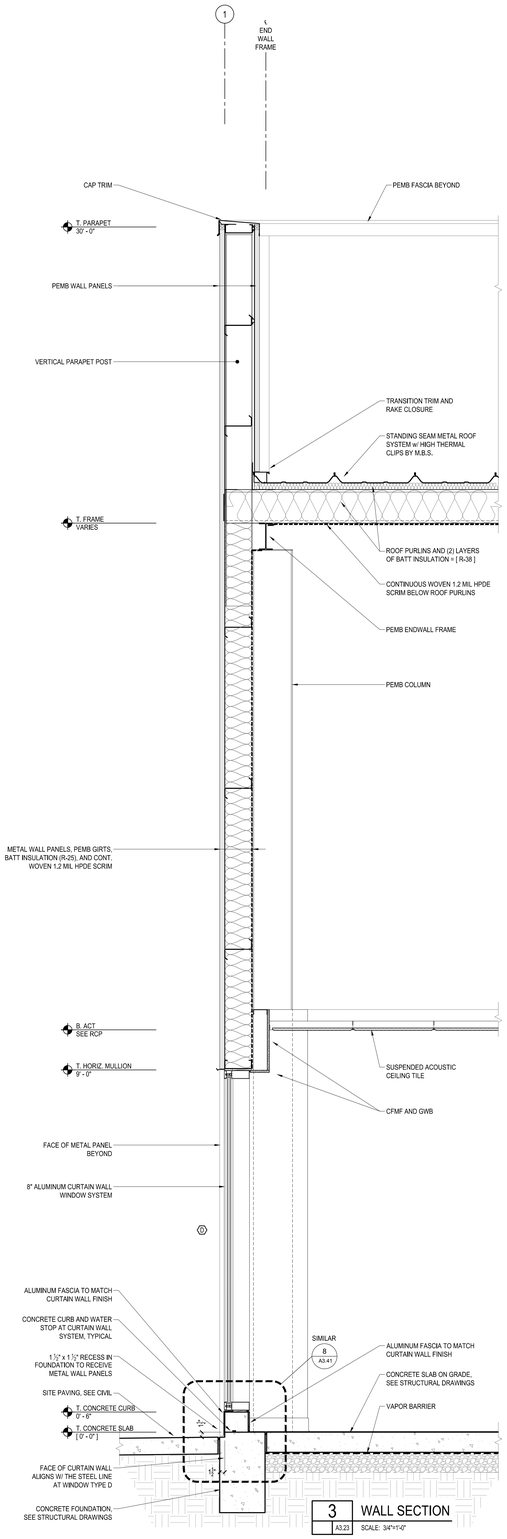
Date:
Drawn By:
Checked By:
Project No:

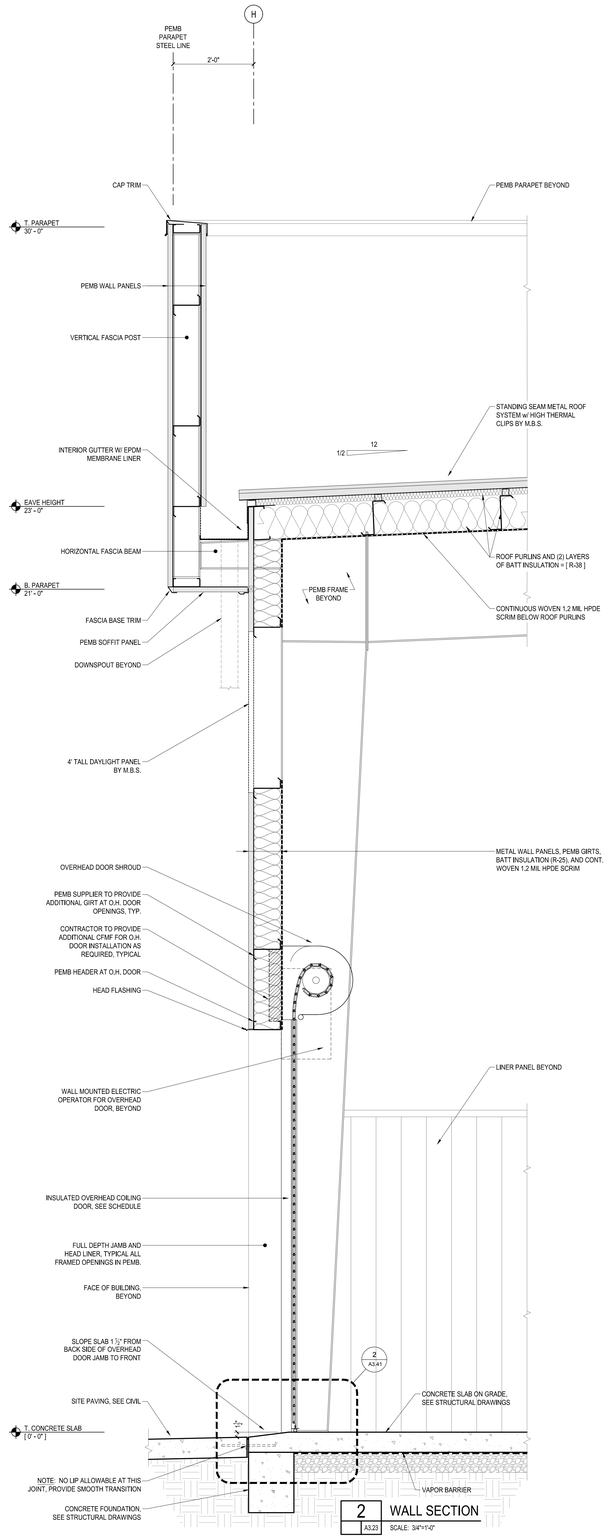
Drawing No.

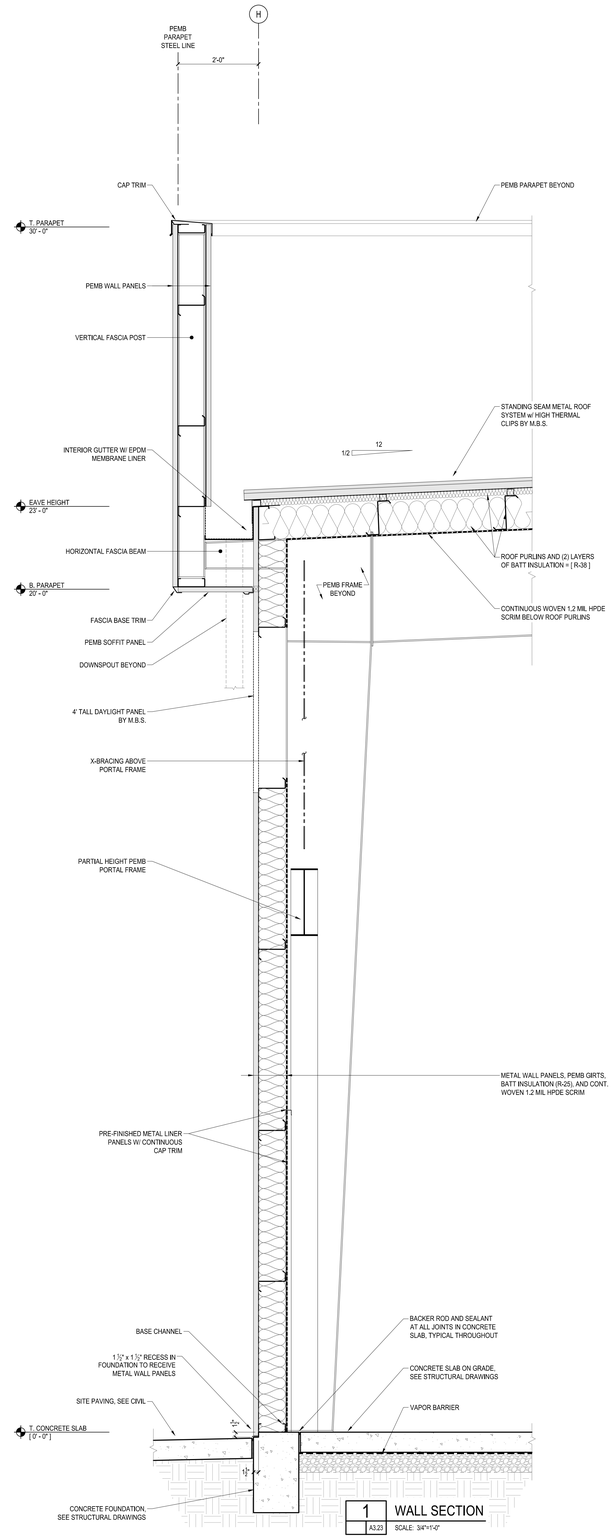
A3.22

Copyright 2025

10/9/2025 12:05:25 AM







General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

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PHONE: (919)287-0994

Structural Engineer

raSmith
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16745 W. BLUEMOUND ROAD
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(262)781.1000 • rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6567

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
Reg. No. 4984
STATE OF ILLINOIS
REGISTERED ARCHITECT

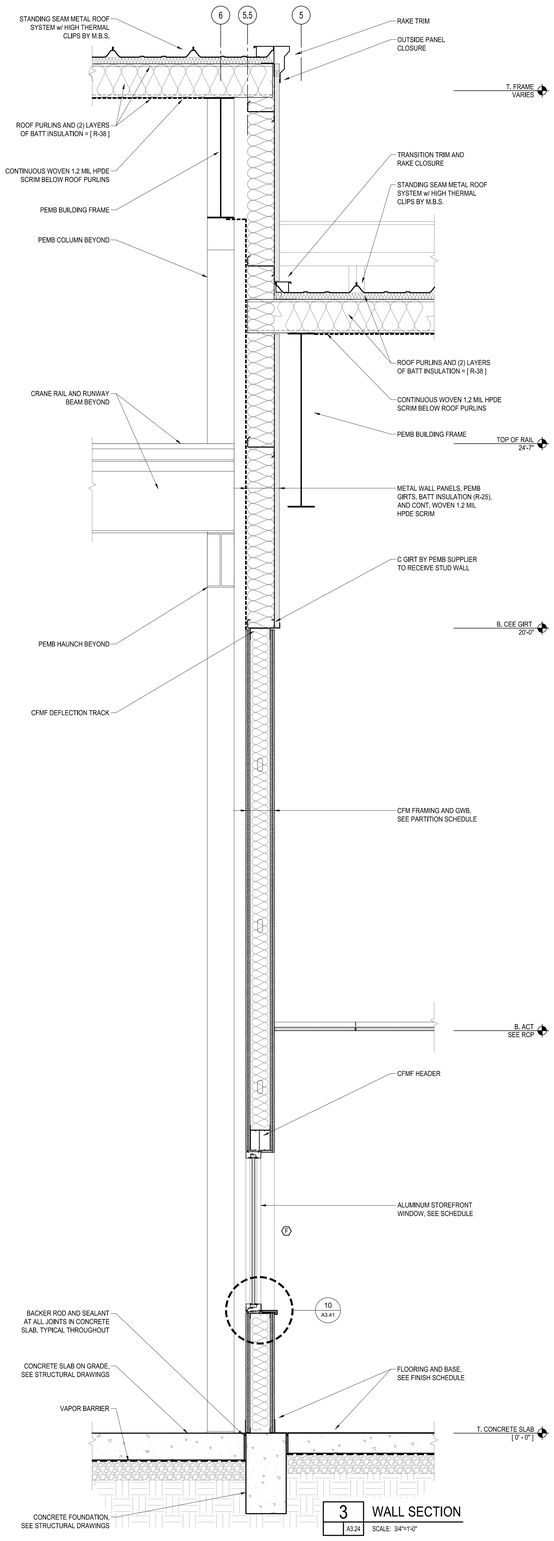
Date:
Drawn By:
Checked By:
Project No:

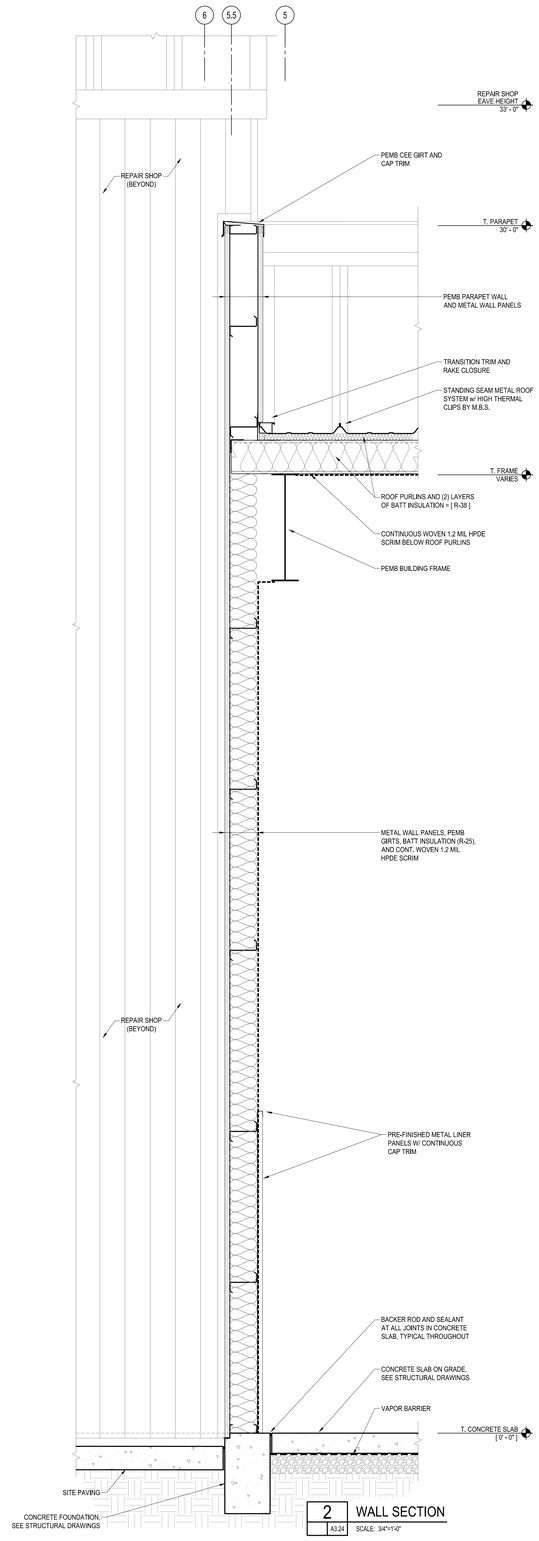
Drawing No.

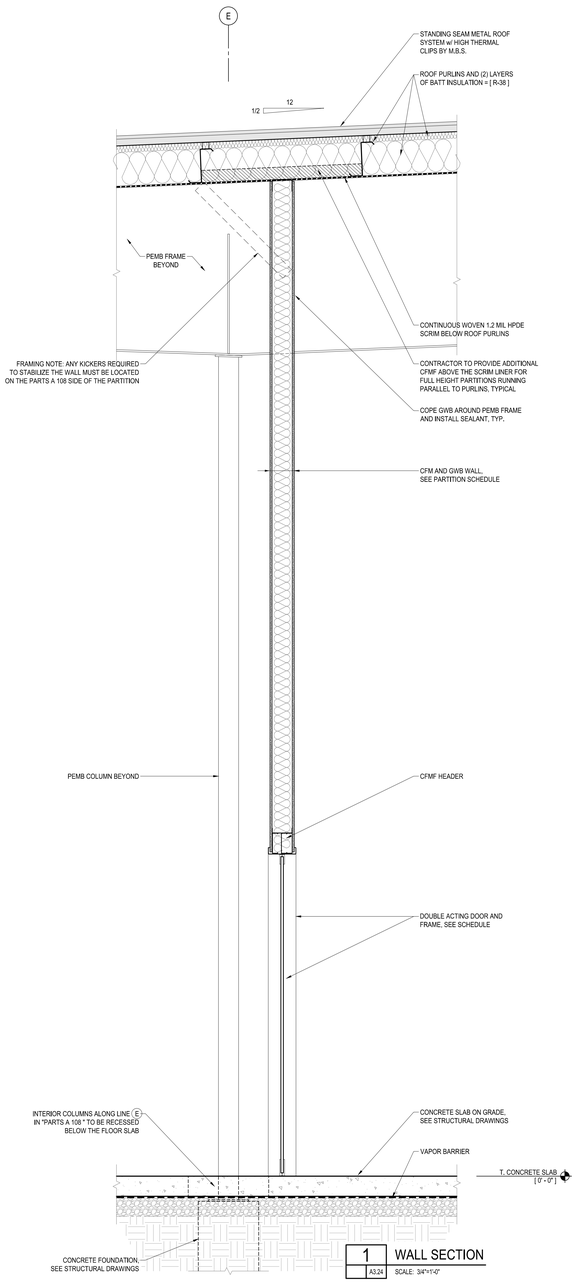
A3.23

Copyright 2025

10/9/2025 12:05:51 AM







General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12328 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

CPRT
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Baton Rouge, LA 70801
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Structural Engineer

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15745 W. BLUEMOUND ROAD
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(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.24

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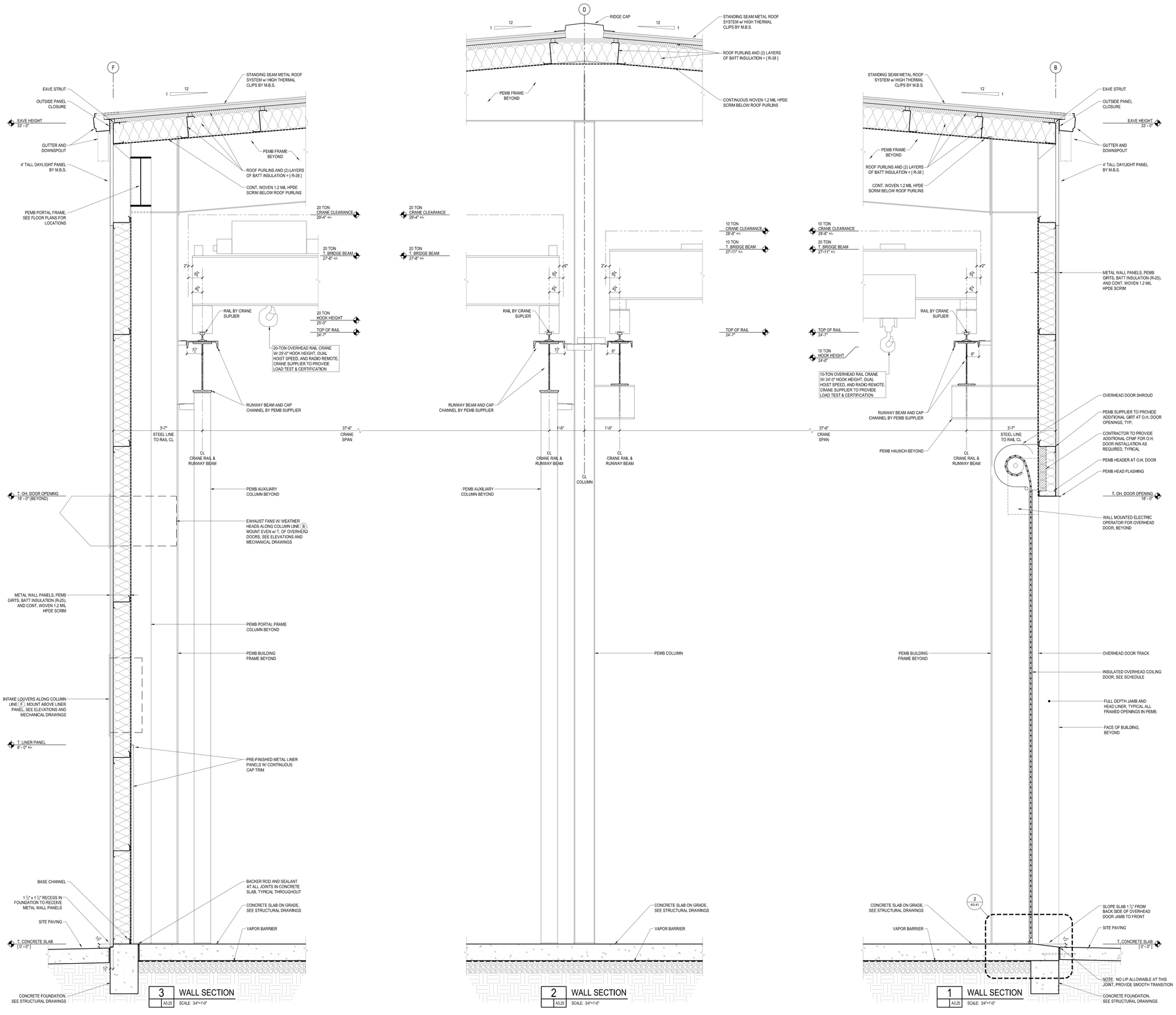
10/9/2025 12:06:15 AM



General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
PEARCH INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: 1888)458-8448

Owner's Representative

CPRT
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450 Main Street
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Architect

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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6275 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.4007

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

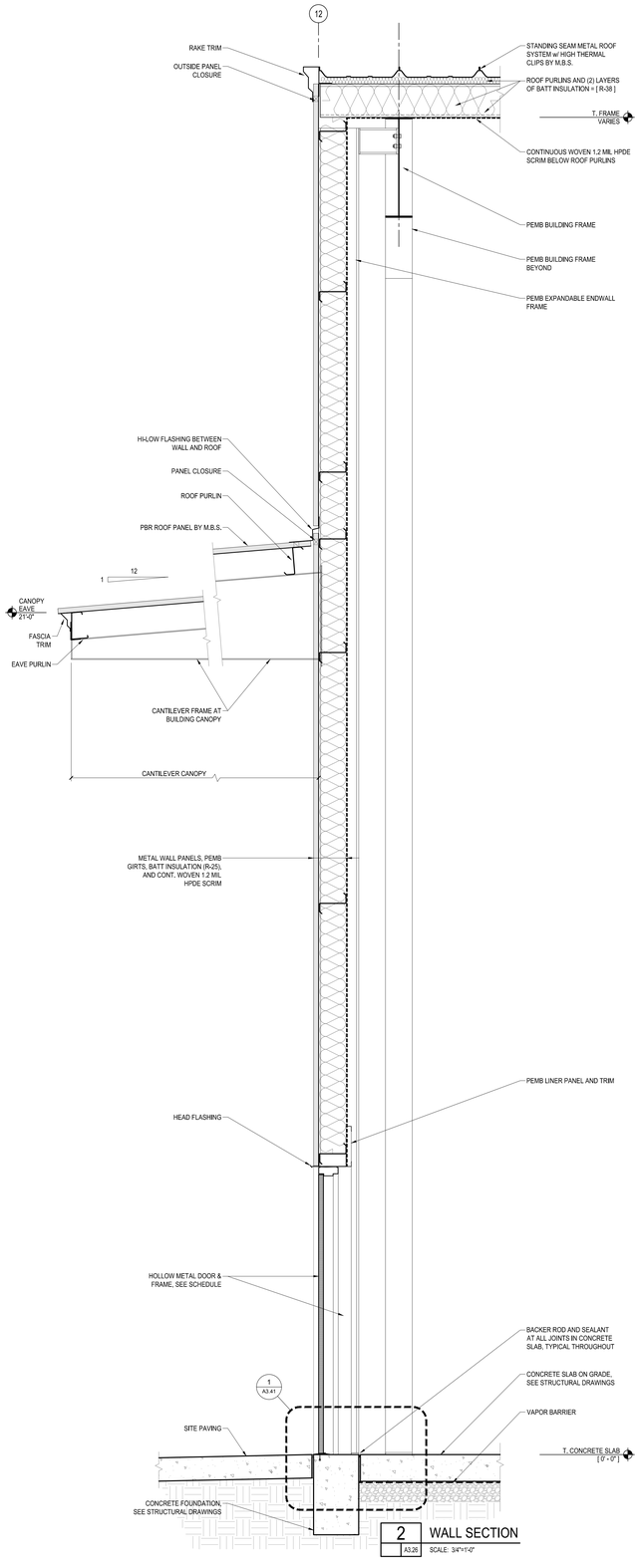
Date:
Drawn By:
Checked By:
Project No:

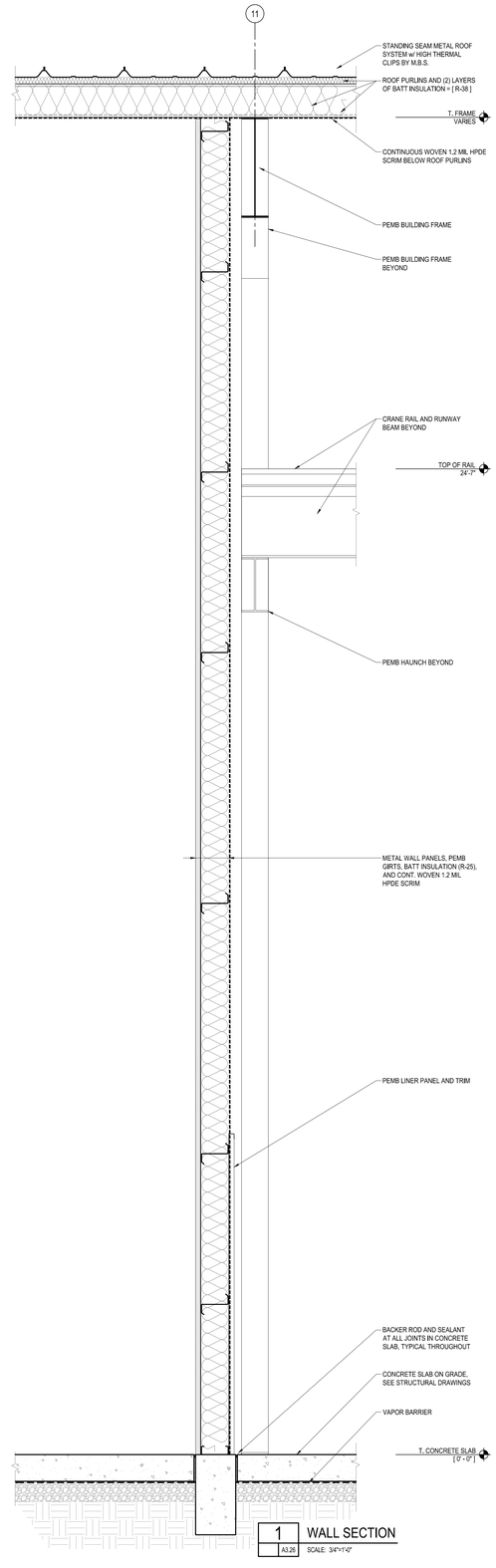
Drawing No.

A3.25

Copyright 2025

10/9/2025 12:06:44 AM





General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12328 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

CPRT
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Structural Engineer

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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.208.6567

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
No. 4884
REGISTERED ARCHITECT
STATE OF ILLINOIS

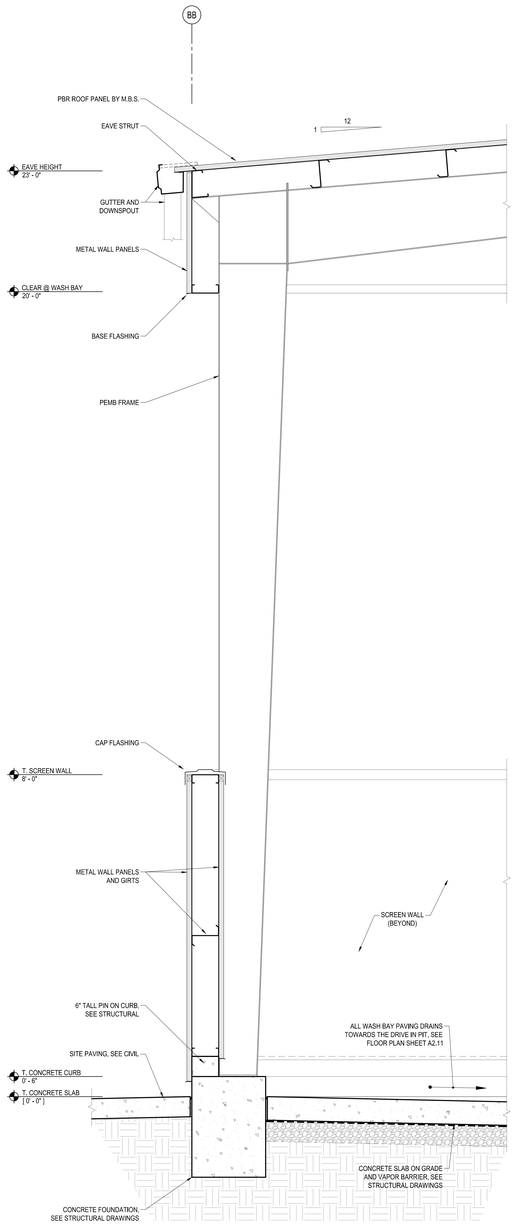
Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.26

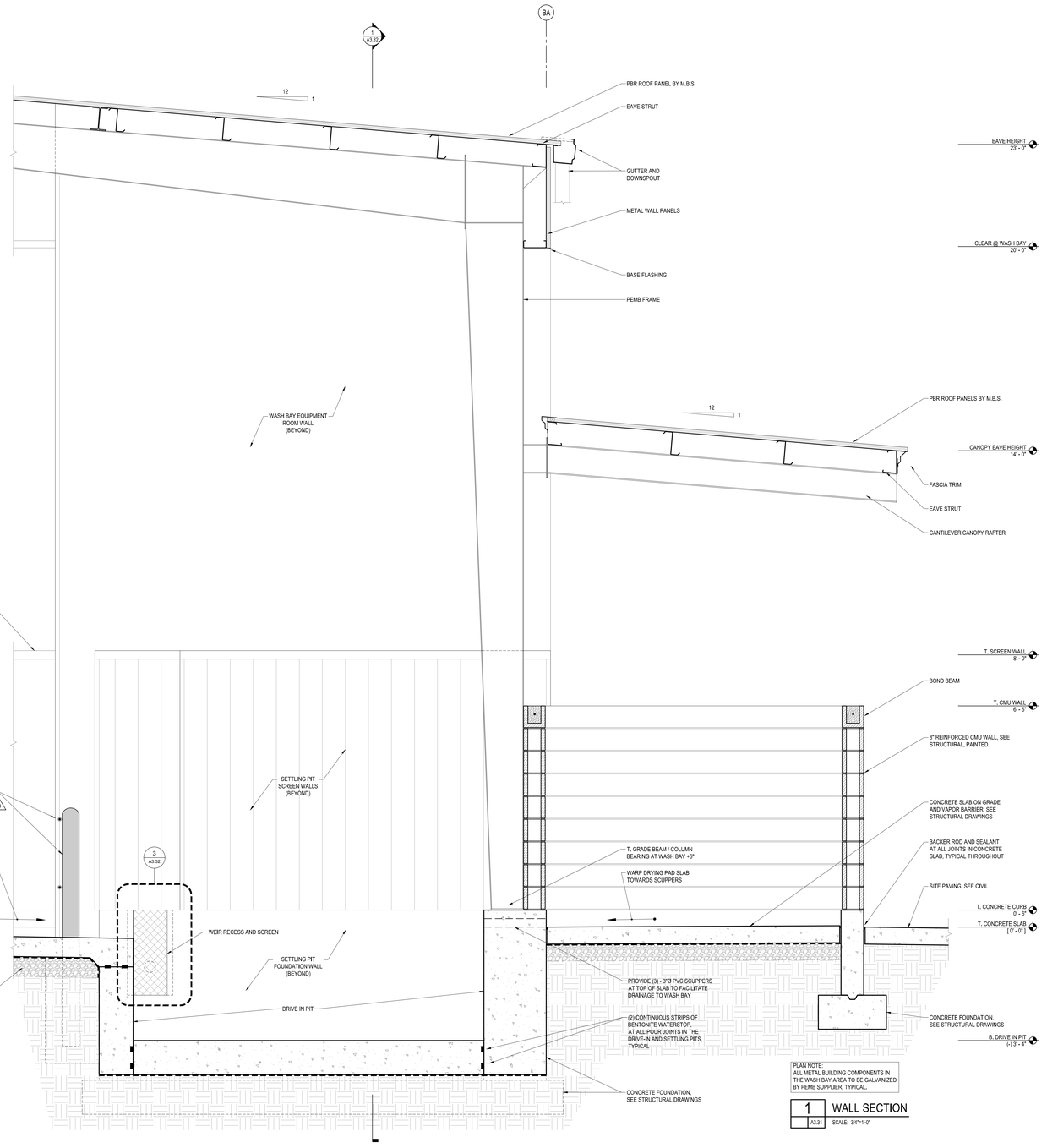
Copyright 2025

10/9/2025 12:07:06 AM



PLAN NOTE:
ALL METAL BUILDING COMPONENTS IN THE WASH BAY AREA TO BE GALVANIZED BY PEMB SUPPLIER, TYPICAL.

2 WALL SECTION
A3.31 SCALE: 3/4"=1'-0"



PLAN NOTE:
ALL METAL BUILDING COMPONENTS IN THE WASH BAY AREA TO BE GALVANIZED BY PEMB SUPPLIER, TYPICAL.

1 WALL SECTION
A3.31 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
WPI
A PEARCE INDUSTRIES COMPANY
12226 SOUTH MAIN
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M.E.P. & F.P. Engineers
INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6597

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
BUILDING B - WALL SECTIONS

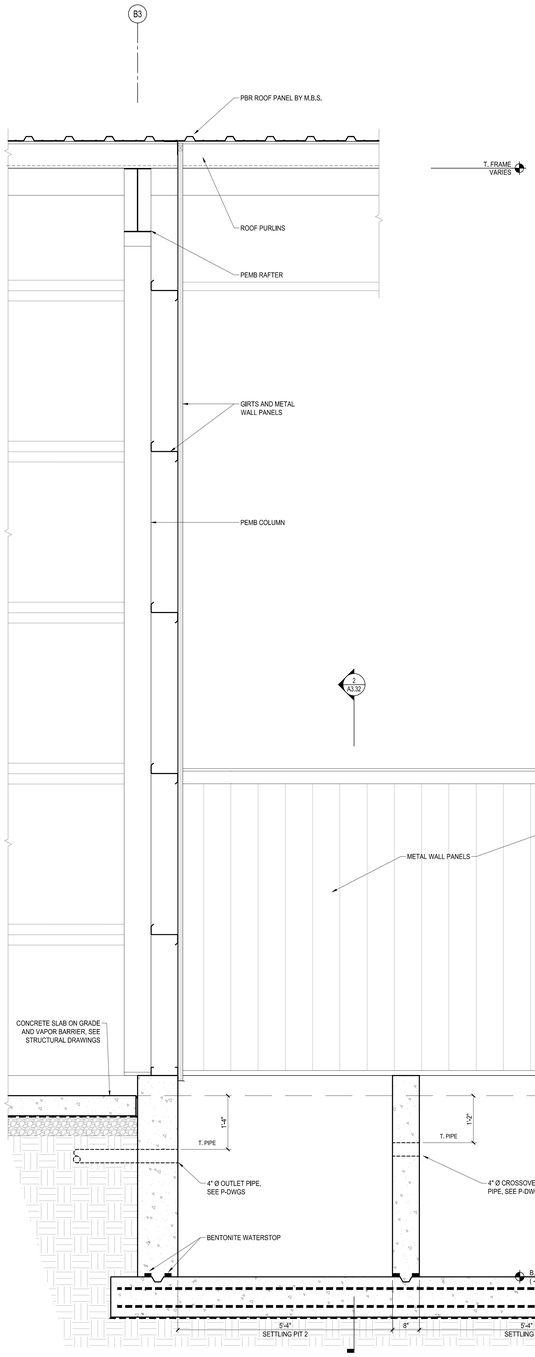
Seal
JOSEPH ANTUNOVICH
No. 6893
REGISTERED ARCHITECT

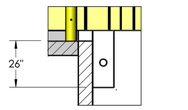
Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A3.31

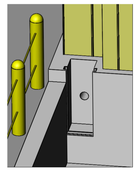
Copyright 2025

10/9/2025 12:07:28 AM

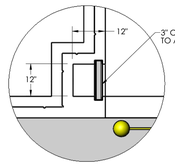




SECTION/ELEVATION
NTS



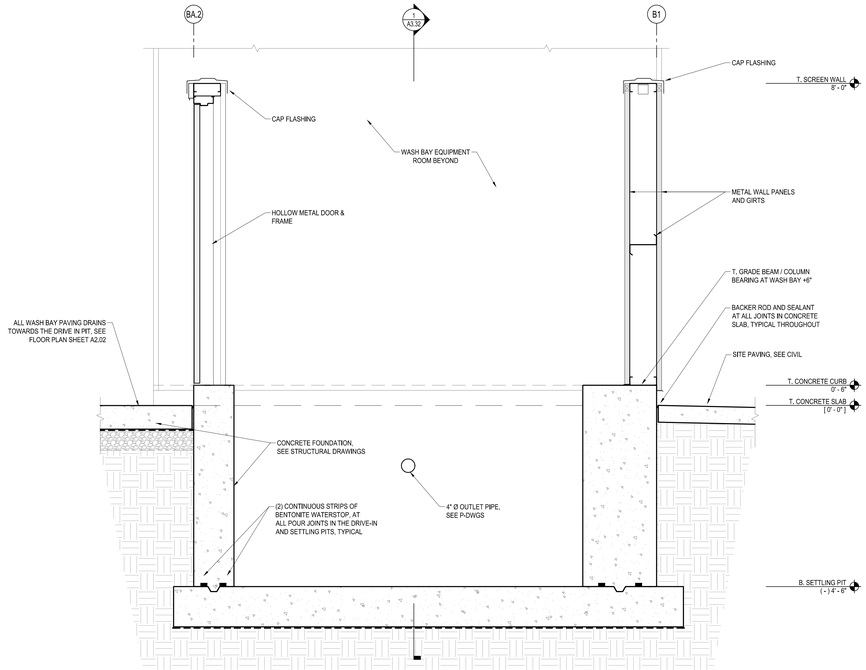
ISOMETRIC
NTS



PLAN VIEW
NTS

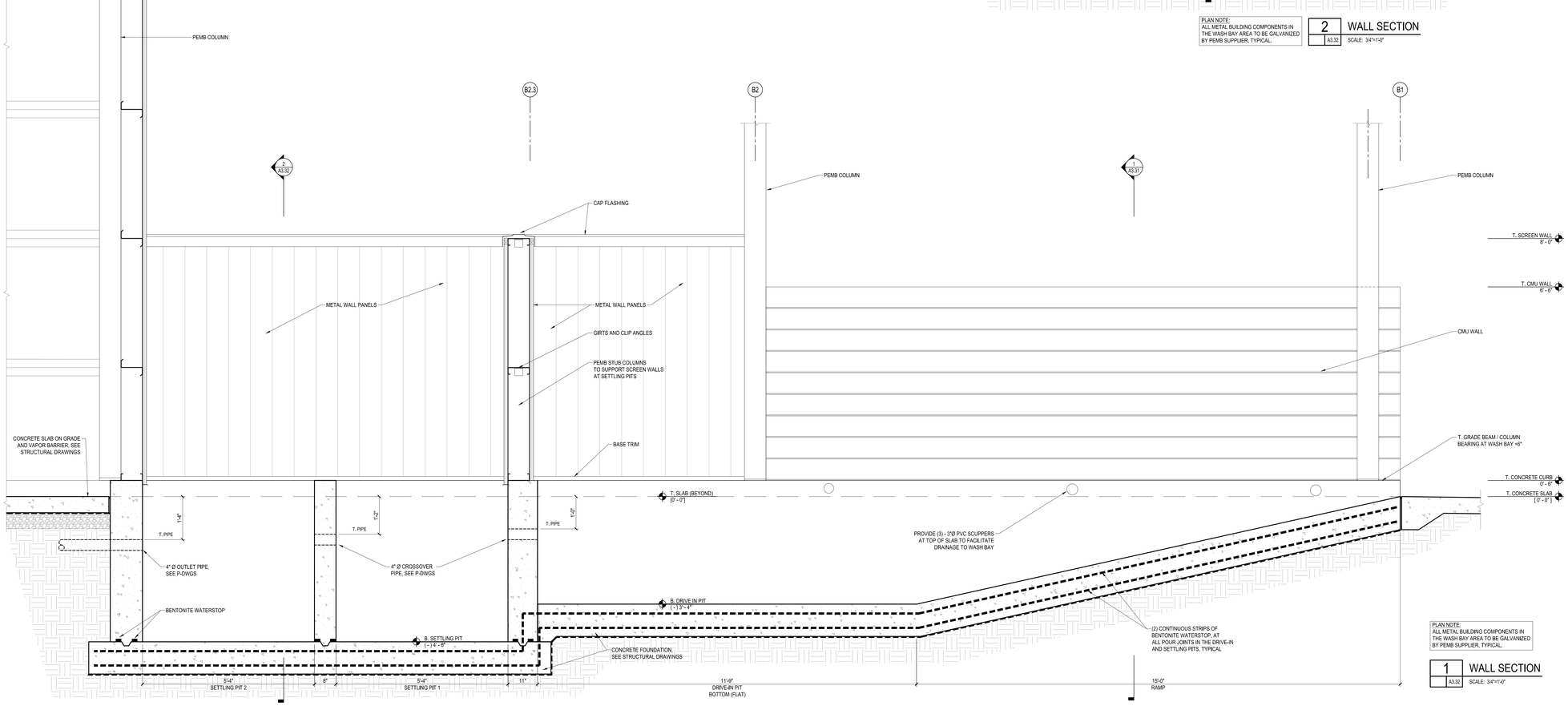
DETAILS PROVIDED BY:
Evans Equipment & Environmental

3 A3.32 WEIR DETAIL
SCALE: N-T-S



PLAN NOTE:
ALL METAL BUILDING COMPONENTS IN THE WASH BAY AREA TO BE GALVANIZED BY PEMB SUPPLIER, TYPICAL.

2 A3.32 WALL SECTION
SCALE: 3/4"=1'-0"



PLAN NOTE:
ALL METAL BUILDING COMPONENTS IN THE WASH BAY AREA TO BE GALVANIZED BY PEMB SUPPLIER, TYPICAL.

1 A3.32 WALL SECTION
SCALE: 3/4"=1'-0"

10/9/2025 12:07:48 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12235 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-8448

Owner's Representative

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COMMERCIAL PROPERTIES REALTY TRUST
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Phone: (225) 924-7206

Architect

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Fax: 312.266.7123

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McADAMS
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RALEIGH, NC 27603
PHONE: (919)287-0994

Structural Engineer

raSmith
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16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 • rasmith.com

M.E.P. & F.P. Engineers

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8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.4307

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
REG. NO. 43031
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.32

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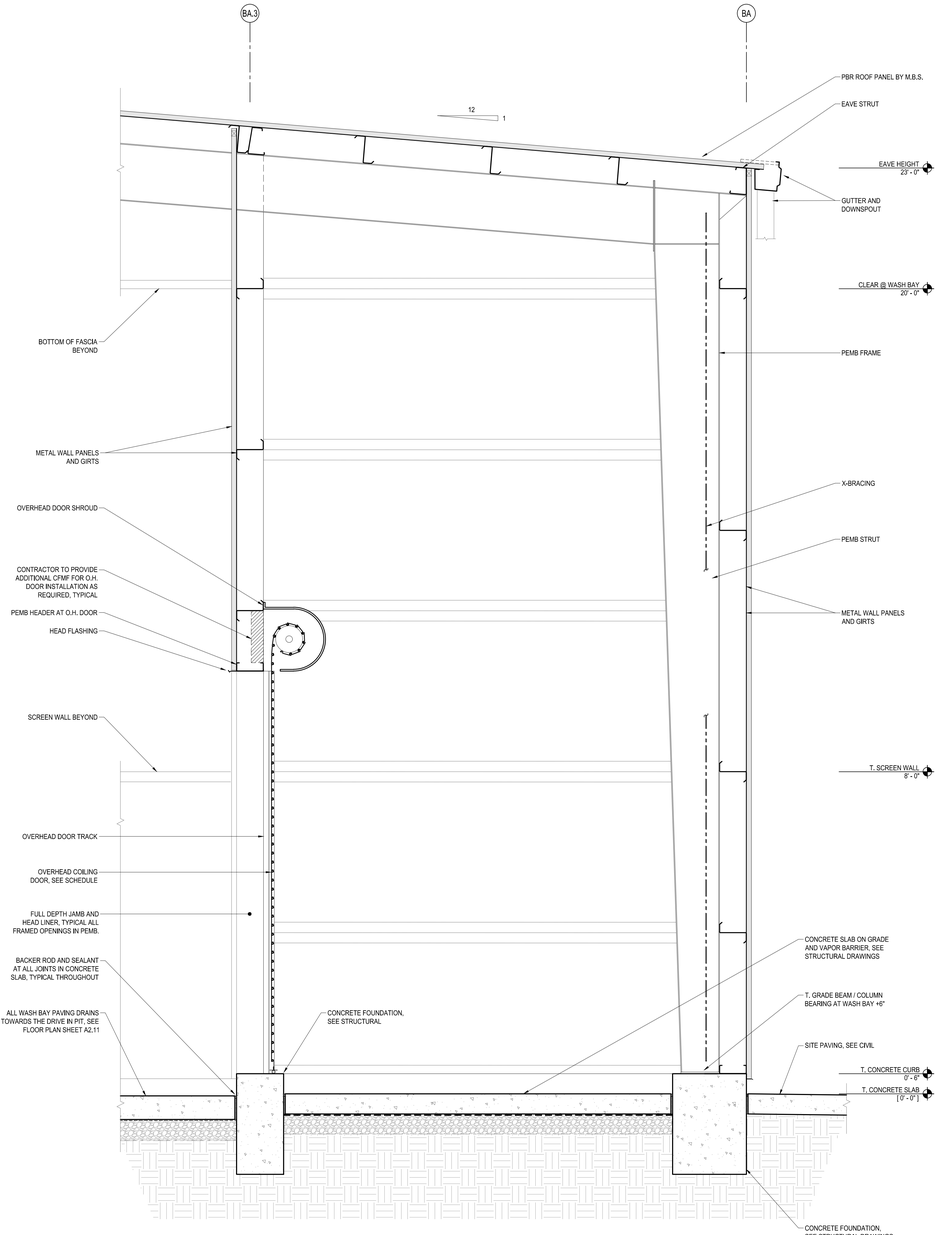

PLAN NOTE:
ALL METAL BUILDING COMPONENTS IN THE WASH BAY AREA TO BE GALVANIZED BY PEMB SUPPLIER, TYPICAL.

1 WALL SECTION
A3.33 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12326 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-9448

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CPRT
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Phone: (225) 924-7206

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raSmith
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BROOKFIELD, WI 53005-5938
(262)781.1000 • rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.398.6007

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B - WALL SECTIONS

Seal

JOSEPH ANTUNOVICH
REG. NO. 40241
STATE OF ILLINOIS
REGISTERED ARCHITECT

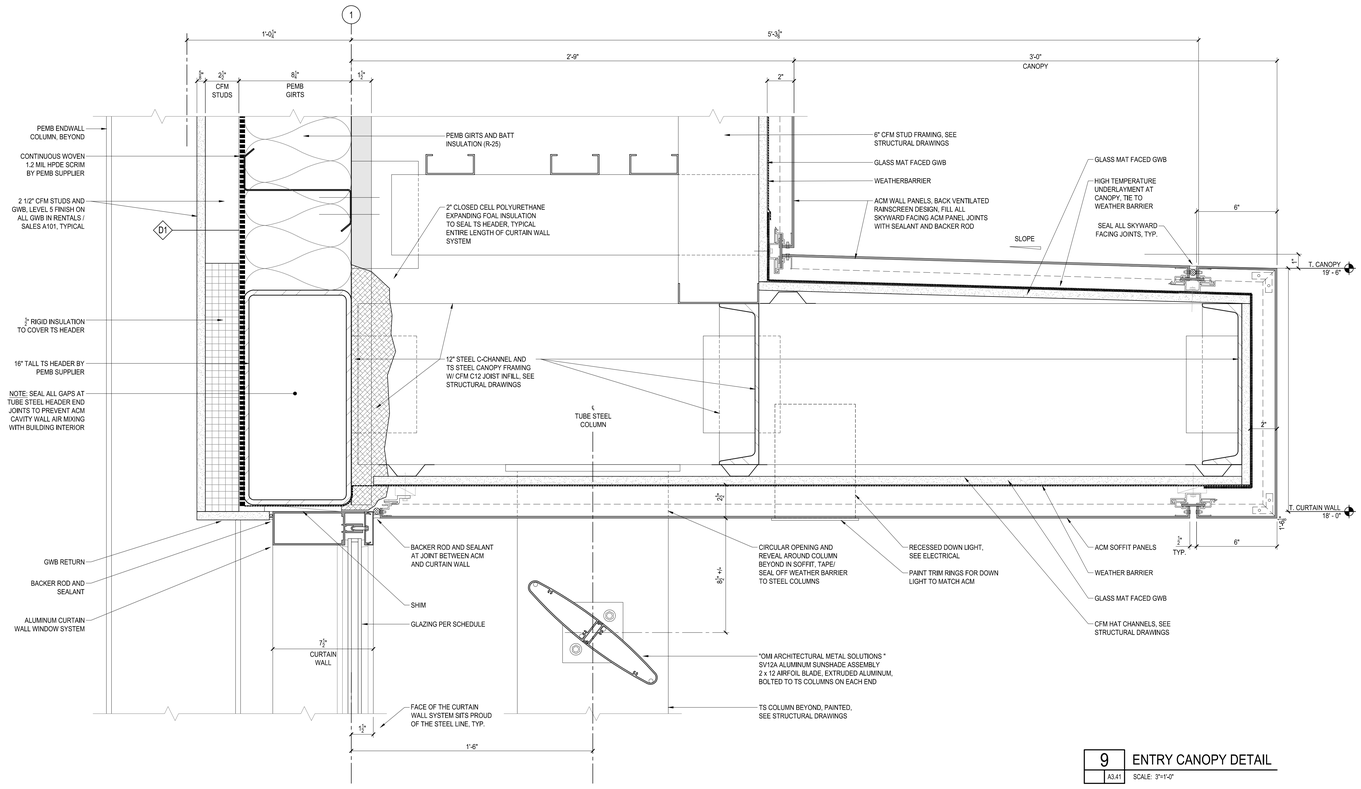
Date:
Drawn By:
Checked By:
Project No:

Drawing No.

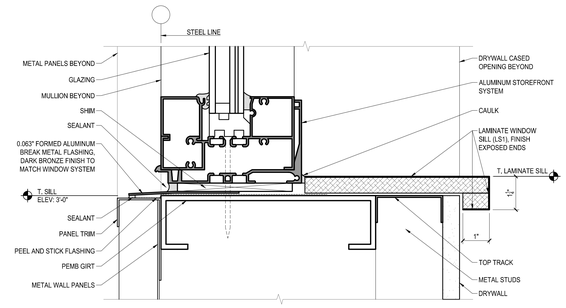
A3.33

Copyright 2025

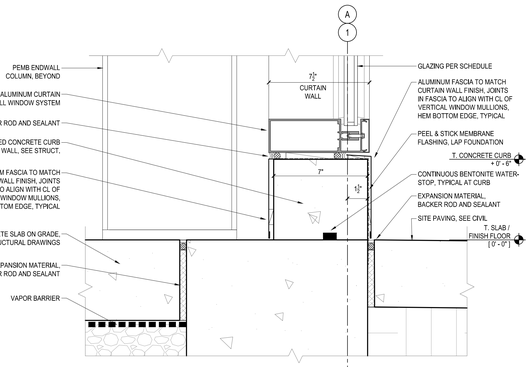
10/9/2025 12:08:28 AM



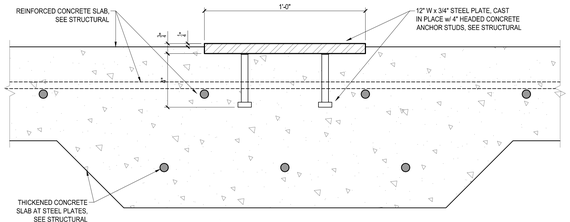
9 ENTRY CANOPY DETAIL
A3.41 SCALE: 3"=1'-0"



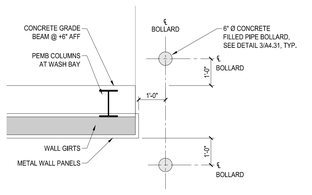
10 WINDOW SILL DETAIL
A3.41 SCALE: 6"=1'-0"



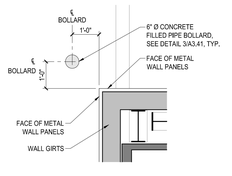
8 CURTAIN WALL CURB DETAIL
A3.41 SCALE: 3"=1'-0"



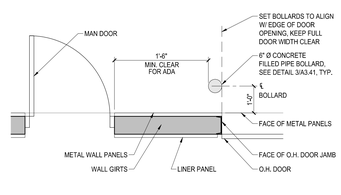
7 STEEL PLATE EMBED DETAIL
A3.41 SCALE: 3"=1'-0"



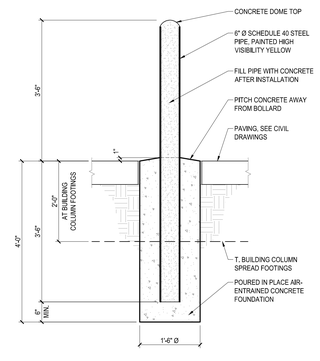
6 BOLLARD DETAIL @ WASH BAY COLUMNS
A3.41 SCALE: 1/2"=1'-0"



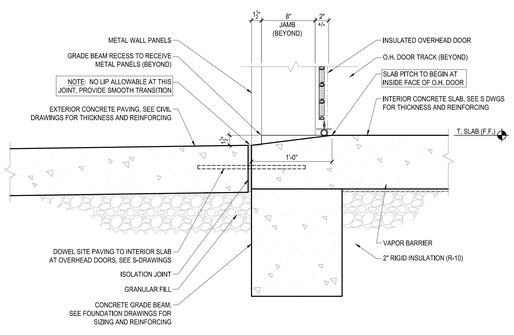
5 BOLLARD DETAIL @ BUILDING CORNERS
A3.41 SCALE: 1/2"=1'-0"



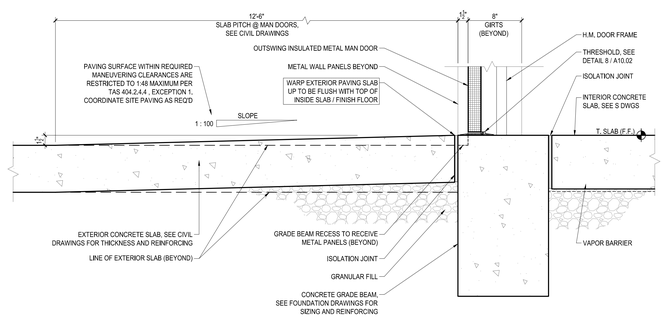
4 BOLLARD DETAIL @ O.H. DOORS
A3.41 SCALE: 1/2"=1'-0"



3 BOLLARD DETAIL
A3.41 SCALE: 3/4"=1'-0"



2 O.H. DOOR SLAB TRANSITION DETAIL
A3.41 SCALE: 1 1/2"=1'-0"



1 MAN DOOR SLAB TRANSITION DETAIL
A3.41 SCALE: 1 1/2"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
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12335 SOUTH MAIN
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raSmith
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15745 W. BLUEMOUND ROAD
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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
8375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6997

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

DETAILS

Seal

JOSEPH ANTUNOVICH
REG. NO. 4884
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A3.41

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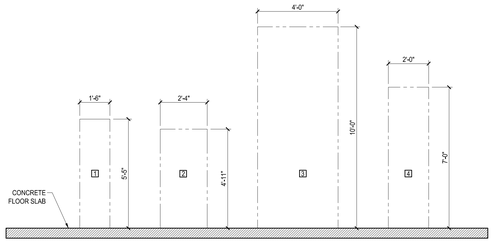
PARTS A 108 - SHELVING LEGEND

1	FLAMMABLE SAFETY CABINET - 43" W x 18" D x 65" H	
	MFG:	JUSTRITE
	MODEL:	SURE-GRIP EX FLAMMABLE SAFETY CABINET, 2 SHELVES, 2 SELF CLOSE DOORS
	CAPACITY:	45 GALLONS
2	DRAWER STORAGE CABINETS - 30" W x 28" D x 59" H	
	MFG:	VIDMAR
	MODEL:	340 - STANDARD EYE LEVEL
3	SHELVING - 96" W x 48" D x 120" H	
	MFG:	TENNSCO
	MODEL:	BULK RACK SHELVING
4	SHELVING - 96" W x 24" D x 84" H	
	MFG:	TENNSCO
	MODEL:	AUTOMOTIVE PARTS SHELVING

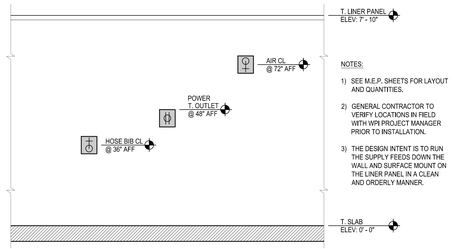
NOTES:

1) MODULAR SHELVING UNITS SHOWN TO ILLUSTRATE UNIT HEIGHT, SEE SHEET A4.01 FOR LAYOUT.

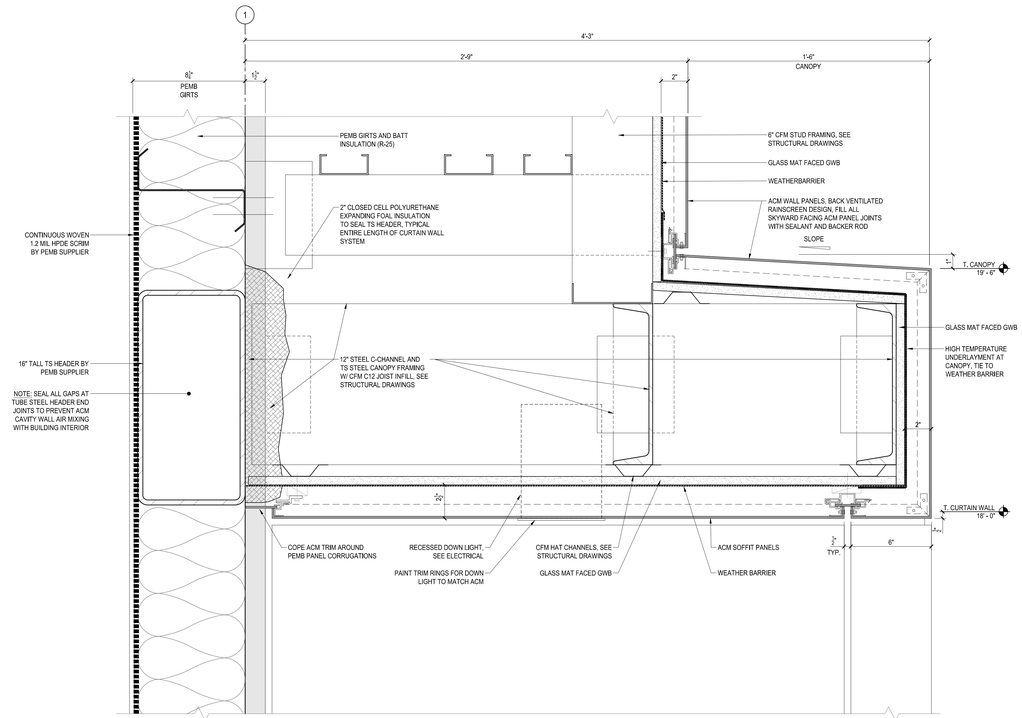
2) ALL SHELVING UNITS ARE N.I.C. AND WILL BE PROVIDED AND INSTALLED BY THE OWNER.



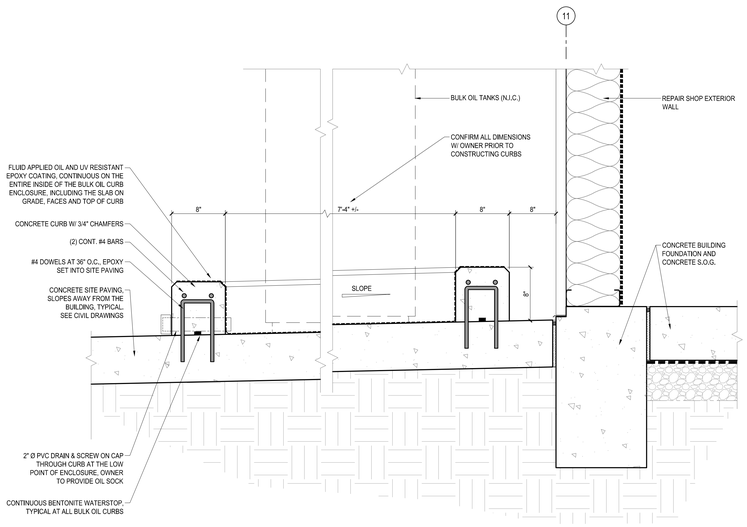
9 PARTS SHELVING
A3.42 SCALE: 3/8"=1'-0"



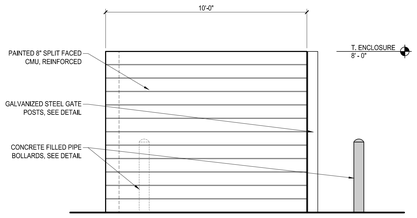
10 REPAIR SHOP MEP MOUNTING HEIGHT DIAGRAM
A3.42 SCALE: 1/2"=1'-0"



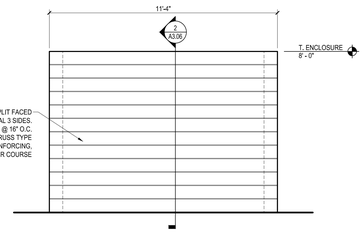
11 ENTRY CANOPY DETAIL
A3.42 SCALE: 3"=1'-0"



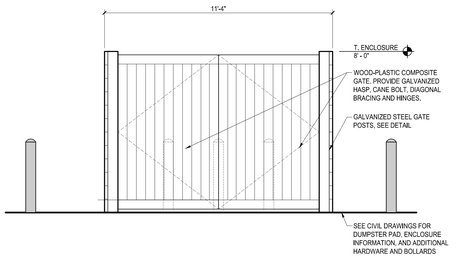
8 BULK OIL CONTAINMENT CURB DETAIL
A3.42 SCALE: 1 1/2"=1'-0"



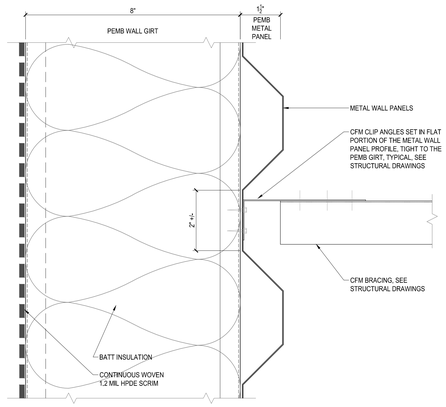
6 DUMPSTER ENCLOSURE ELEVATION
A3.42 SCALE: 1/4"=1'-0"



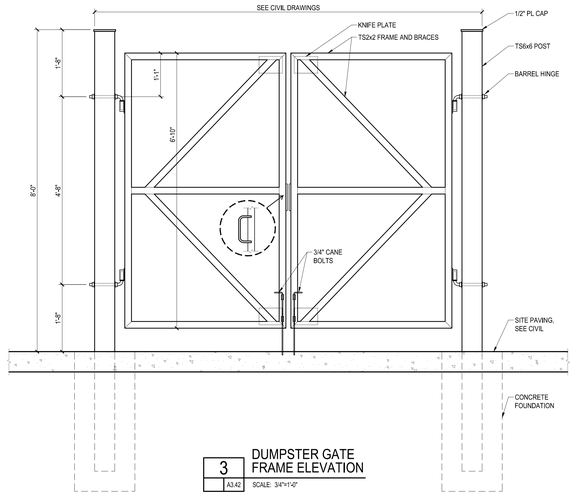
5 DUMPSTER ENCLOSURE ELEVATION
A3.42 SCALE: 3/8"=1'-0"



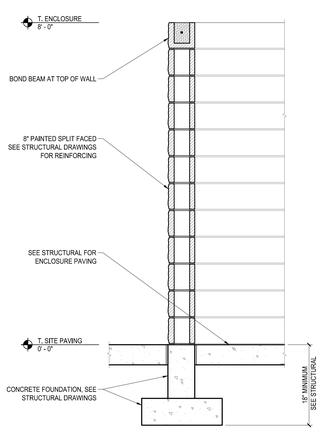
4 DUMPSTER ENCLOSURE ELEVATION
A3.42 SCALE: 3/8"=1'-0"



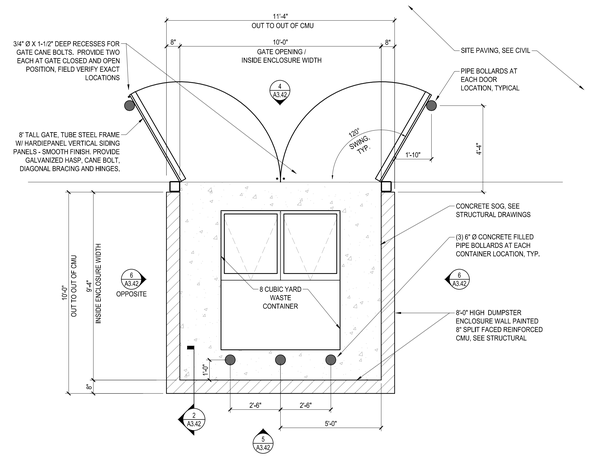
7 PLAN DETAIL AT EXTERIOR CFM FRAMING BRACING
A3.42 SCALE: 6"=1'-0"



3 DUMPSTER GATE FRAME ELEVATION
A3.42 SCALE: 3/4"=1'-0"



2 DUMPSTER ENCLOSURE SECTION
A3.42 SCALE: 3/4"=1'-0"



1 DUMPSTER ENCLOSURE PLAN
A3.42 SCALE: 3/8"=1'-0"

N

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
WPI
A FRANCE INDUSTRIES COMPANY
12326 SOUTH MAIN
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PHONE: (888)458-0448

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Phone: (225) 924-7284

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raSmith
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ORLANDO, FL 32822
PHONE: 407.388.6597

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
DETAILS

Seal
JOSEPH ANTUNOVICH
No. 6851
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A3.42

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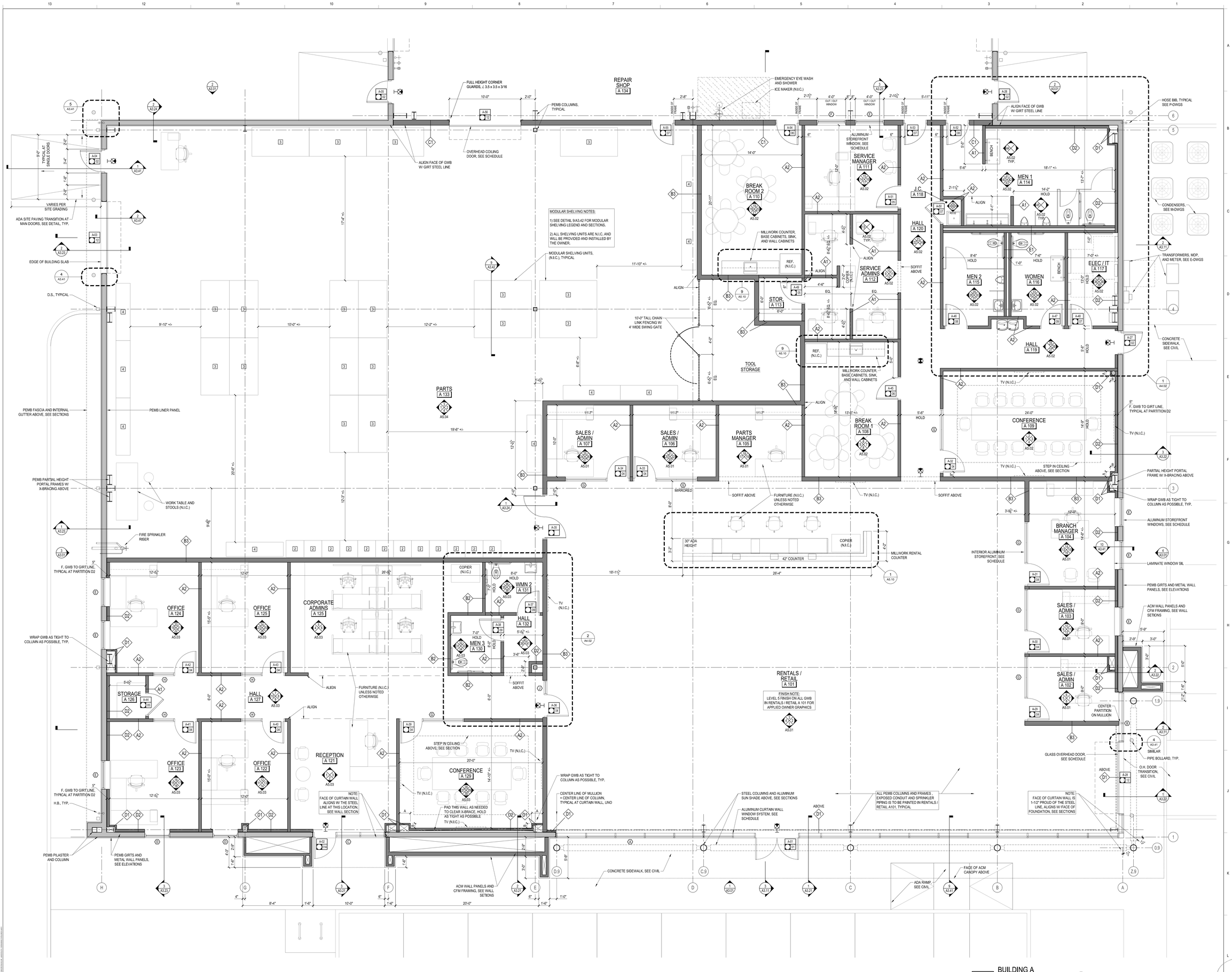
10/9/2025 12:09:57 AM



1 BUILDING A ENLARGED FLOOR PLAN
A4.01 SCALE: 1/4"=1'-0"

10/9/2025 12:10:16 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12335 SOUTH MAIN
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Owner's Representative

CPRT
Copart Real Estate
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M.E.P. & F.P. Engineers

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ORLANDO, FL 32822
PHONE: 407.208.8587

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - ENLARGED OFFICE PLAN

Seal

JOSEPH ANTUNOVICH
No. 6824
REGISTERED ARCHITECT
ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A4.01

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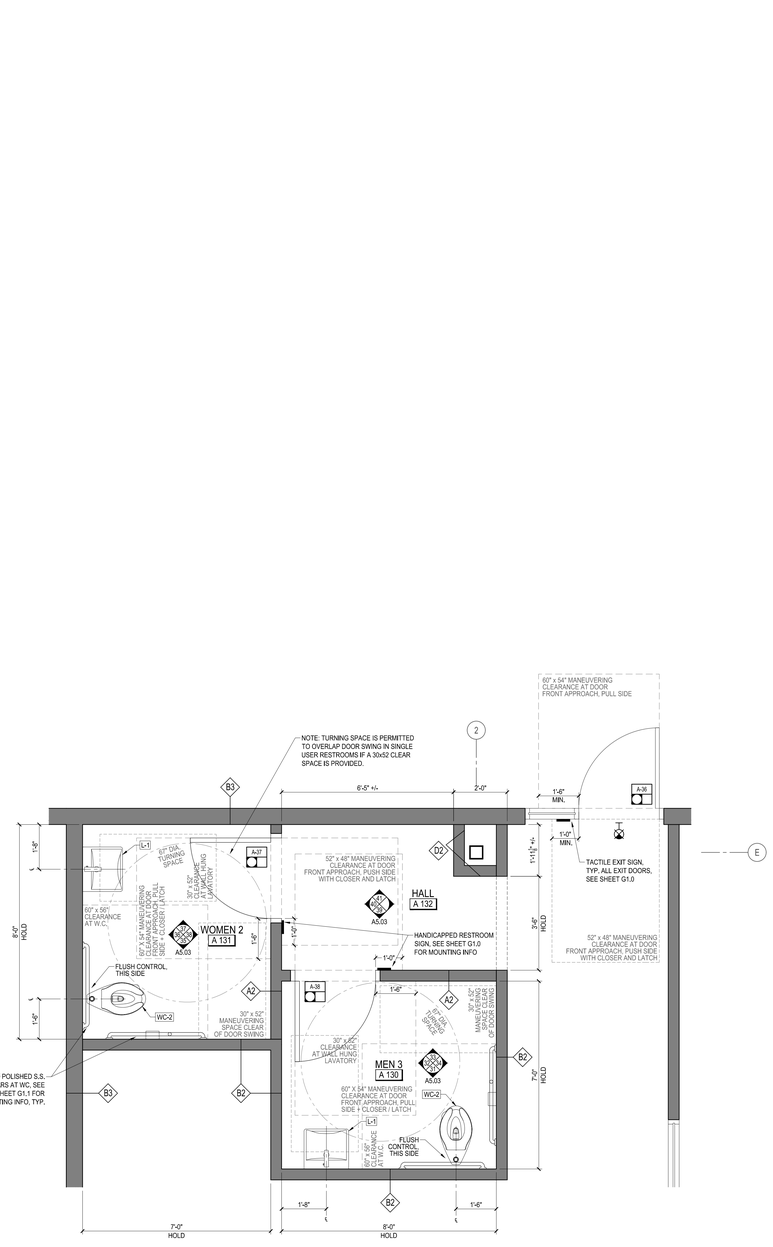
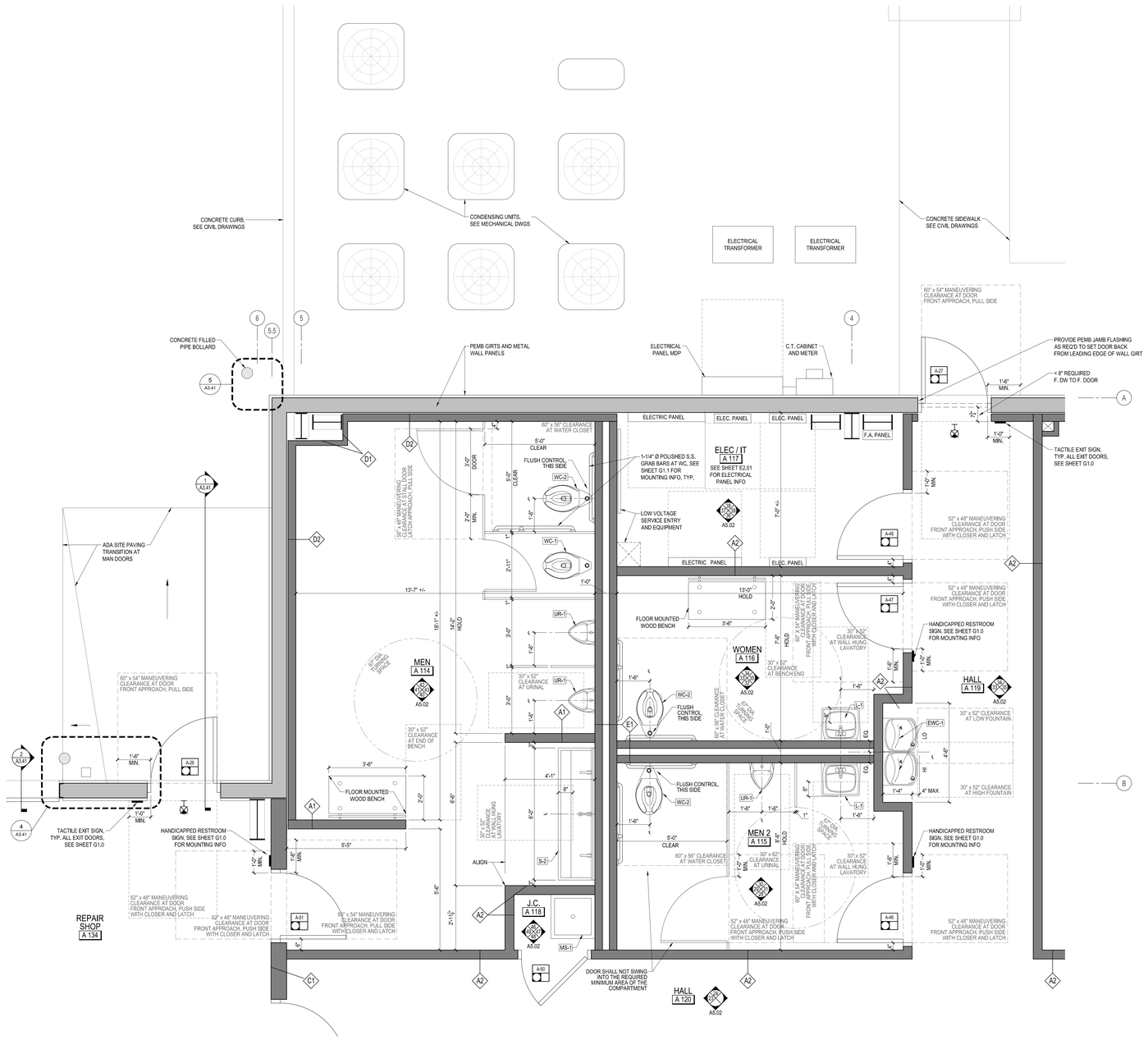
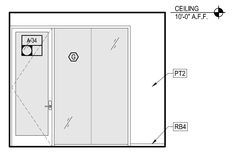
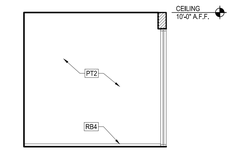


2 BUILDING A - ENLARGED RESTROOM PLANS
A4.02 SCALE: 1/2"=1'-0" N

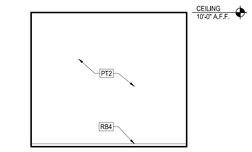

CONCRETE CURB, SEE CIVIL DRAWINGS
CONDENSING UNITS, SEE MECHANICAL DWGS
CONCRETE FILLED PIPE BOLLARD
PEMB GIRTS AND METAL WALL PANELS
ELECTRICAL PANEL MDP
C.T. CABINET AND METER
ELECTRICAL TRANSFORMER
ELECTRICAL TRANSFORMER
CONCRETE SIDEWALK SEE CIVIL DRAWINGS
60" x 54" MANEUVERING CLEARANCE AT DOOR FRONT APPROACH, PULL SIDE
PROVIDE PEMB JAMB FLASHING AS REQ'D TO SET DOOR BACK FROM LEADING EDGE OF WALL GIRT
< 8" REQUIRED F. DW TO F. DOOR
TACTILE EXIT SIGN, TYP. ALL EXIT DOORS, SEE SHEET G1.0
ADA SITE PAVING TRANSITION AT MAN DOORS
ELECTRIC PANEL
ELEC. PANEL
ELEC. PANEL
F.A. PANEL
ELEC / IT A 117
SEE SHEET E2.01 FOR ELECTRICAL PANEL INFO
1-1/4" Ø POLISHED S.S. GRAB BARS AT WC, SEE SHEET G1.1 FOR MOUNTING INFO, TYP.
LOW VOLTAGE SERVICE ENTRY AND EQUIPMENT
60" x 56" CLEARANCE AT WATER CLOSET
FLUSH CONTROL THIS SIDE
5'-0" CLEAR
3'-0" DOOR
5'-6" CLEAR
2'-0" MIN.
60" x 54" MANEUVERING CLEARANCE AT DOOR FRONT APPROACH, PULL SIDE
MEN A 114
WOMEN A 116
HALL A 119
MEN 2 A 115
HALL A 120
J.C. A 118
REPAIR SHOP A 134
FLOOR MOUNTED WOOD BENCH
30" x 52" CLEARANCE AT END OF BENCH
30" x 52" CLEARANCE AT URINAL
30" x 52" CLEARANCE AT WALL HUNG LAVATORY
30" x 52" CLEARANCE AT LOW FOUNTAIN
30" x 52" CLEARANCE AT HIGH FOUNTAIN
4" MAX
HANDICAPPED RESTROOM SIGN, SEE SHEET G1.0 FOR MOUNTING INFO
52" x 48" MANEUVERING CLEARANCE AT DOOR FRONT APPROACH, PUSH SIDE WITH CLOSER AND LATCH
52" x 48" MANEUVERING CLEARANCE AT DOOR FRONT APPROACH, PULL SIDE WITH CLOSER AND LATCH
60" x 54" MANEUVERING CLEARANCE AT DOOR FRONT APPROACH, PULL SIDE
DOOR SHALL NOT SWING INTO THE REQUIRED MINIMUM AREA OF THE COMPARTMENT
ALIGN
13'-7" +/-
18'-1" +/-
14'-2" HOLD
7'-0" +/-
13'-0" HOLD
7'-6" HOLD
4'-1"
3'-6"
2'-6"
6'-6"
5'-5"
5'-6"
2'-11½"
1'-4" MIN.
1'-0" MIN.
1'-6" MIN.
1'-8" MIN.
1'-6"
2'-0"
2'-11"
1'-0"
3'-6"
1'-6"
8"
1'-4"
1'-6"
1'-1"
4'-6"
1'-0"
EQ.
EQ.
EQ.



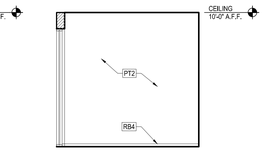
27 BUILDING A
SALES / ADMIN A 107
A5.01 SCALE: 1/4"=1'-0"



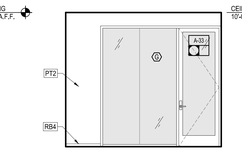
26 BUILDING A
SALES / ADMIN A 107
A5.01 SCALE: 1/4"=1'-0"



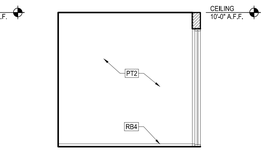
25 BUILDING A
SALES / ADMIN A 107
A5.01 SCALE: 1/4"=1'-0"



24 BUILDING A
SALES / ADMIN A 107
A5.01 SCALE: 1/4"=1'-0"



23 BUILDING A
SALES / ADMIN A 106
A5.01 SCALE: 1/4"=1'-0"



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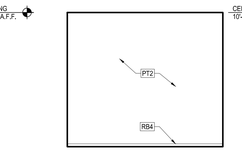
SALES / ADMIN A 106
A5.01 SCALE: 1/4"=1'-0"



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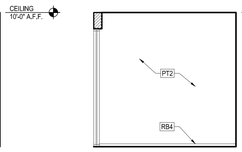
SALES / ADMIN A 106
A5.01 SCALE: 1/4"=1'-0"



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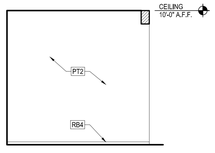

19 BUILDING A
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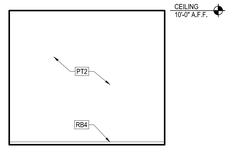
A5.01 SCALE: 1/4"=1'-0"



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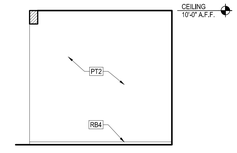

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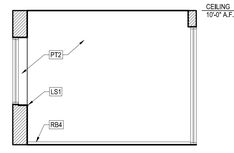
PARTS MANAGER A 105
A5.01 SCALE: 1/4"=1'-0"



16 BUILDING A
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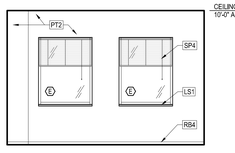

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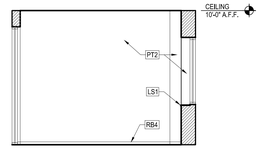

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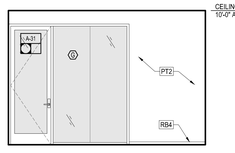

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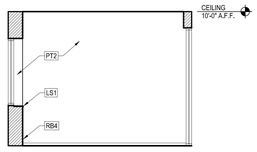

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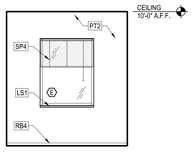

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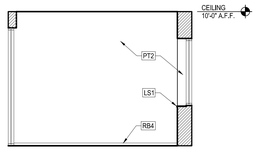

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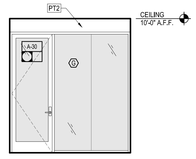

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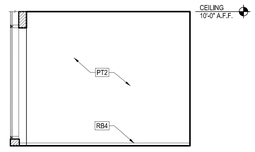

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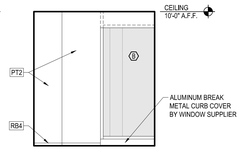

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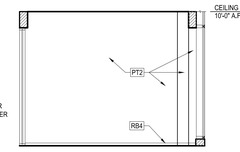

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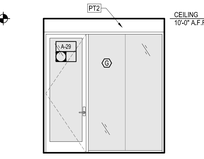

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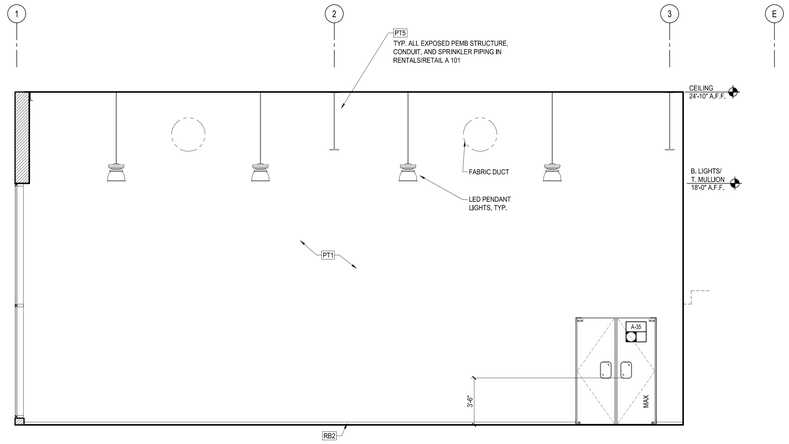
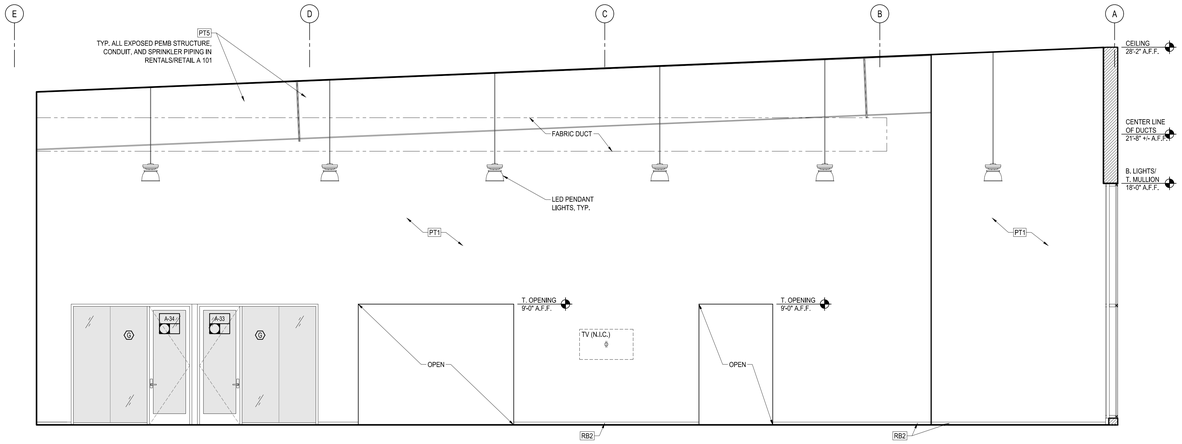


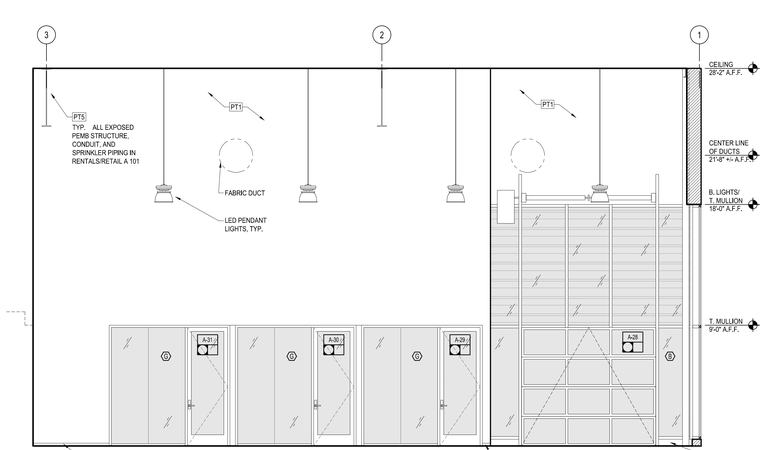
FINISH NOTE:
LEVEL 5 FINISH ON ALL GWB
IN RENTALS / RETAIL A 101 FOR
APPLIED OWNER GRAPHICS

4 BUILDING A
RENTALS / RETAIL A 101
A5.01 SCALE: 1/4"=1'-0"



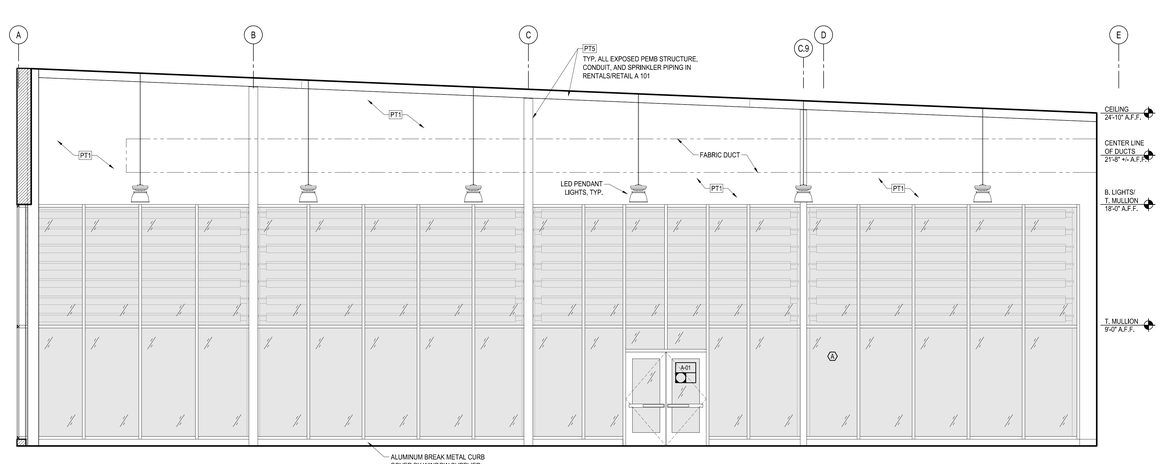
FINISH NOTE:
LEVEL 5 FINISH ON ALL GWB
IN RENTALS / RETAIL A 101 FOR
APPLIED OWNER GRAPHICS

3 BUILDING A
RENTALS / RETAIL A 101
A5.01 SCALE: 1/4"=1'-0"



FINISH NOTE:
LEVEL 5 FINISH ON ALL GWB
IN RENTALS / RETAIL A 101 FOR
APPLIED OWNER GRAPHICS

2 BUILDING A
RENTALS / RETAIL A 101
A5.01 SCALE: 1/4"=1'-0"



FINISH NOTE:
LEVEL 5 FINISH ON ALL GWB
IN RENTALS / RETAIL A 101 FOR
APPLIED OWNER GRAPHICS

1 BUILDING A
RENTALS / RETAIL A 101
A5.01 SCALE: 1/4"=1'-0"

10/9/2025 12:11:03 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
W P I
A PEARCE INDUSTRIES COMPANY
12320 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-4448

Owner's Representative
CPRT
450 Main Street
Baton Rouge, LA 70801
Phone: (225) 924-7206

Architect
ANTUNOVICH ASSOCIATES
ARCHITECTURE · PLANNING · INTERIOR DESIGN
224 W Huron Street
Chicago, Illinois 60654
Main: 312.266.1126
Fax: 312.266.7123

Civil Engineer
M c A D A M S
821 HILLSBOROUGH STREET, SUITE 500
RALEIGH, NC 27603
PHONE: (919)287.9994

Structural Engineer
raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 • rasmith.com

M.E.P. & F.P. Engineers
INGENUITY ENGINEERS, INC.
8270 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.388.6007

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

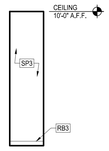
Drawing Title
BUILDING A - INTERIOR ELEVATIONS

Seal
JOSEPH ANTUNOVICH
REG. NO. 8980
REGISTERED ARCHITECT
STATE OF ILLINOIS

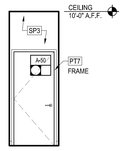
Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A5.01

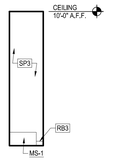
Copyright 2025



49 BUILDING A J.C. A 118
A5.02 SCALE: 1/4"=1'-0"



48 BUILDING A J.C. A 118
A5.02 SCALE: 1/4"=1'-0"



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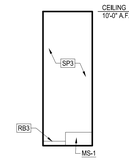

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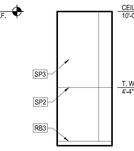
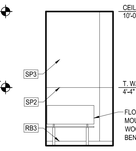
A5.02 SCALE: 1/4"=1'-0"



45 BUILDING A MEN 1 A 114
A5.02 SCALE: 1/4"=1'-0"



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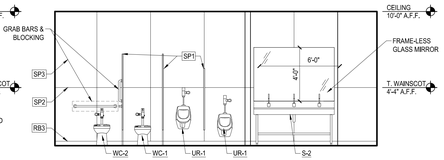

43 BUILDING A MEN 1 A 114
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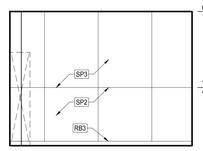

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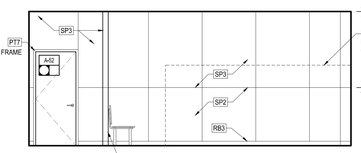

41 BUILDING A MEN 1 A 114
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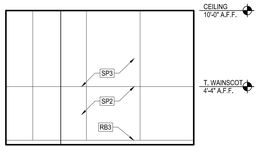
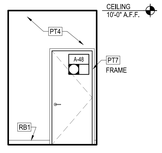
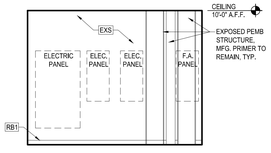


40 BUILDING A MEN 1 A 114
A5.02 SCALE: 1/4"=1'-0"



39 BUILDING A ELEC / IT A 117
A5.02 SCALE: 1/4"=1'-0"



38 BUILDING A ELEC / IT A 117
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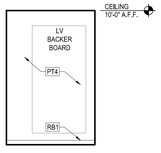

37 BUILDING A ELEC / IT A 117
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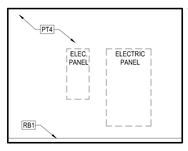

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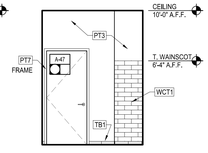

35 BUILDING A WOMEN A 116
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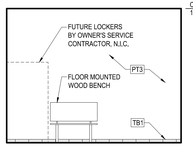

34 BUILDING A WOMEN A 116
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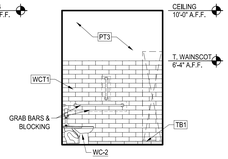

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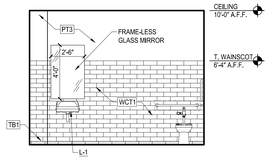

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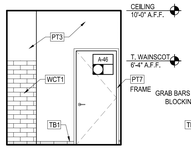

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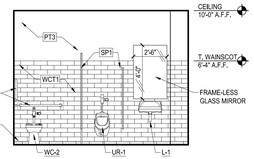
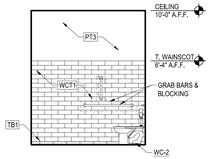
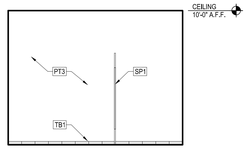


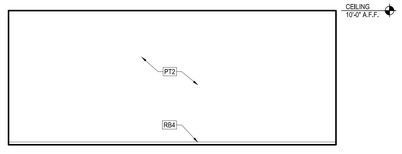
30 BUILDING A MEN 2 A 115
A5.02 SCALE: 1/4"=1'-0"



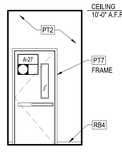
29 BUILDING A MEN 2 A 115
A5.02 SCALE: 1/4"=1'-0"



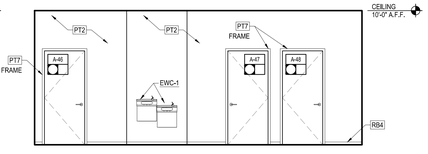
28 BUILDING A MEN 2 A 115
A5.02 SCALE: 1/4"=1'-0"



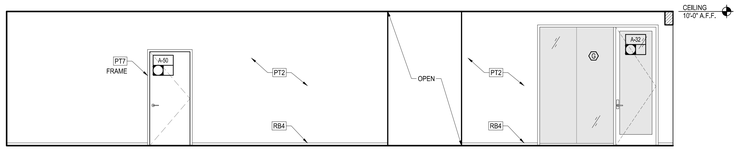
27 BUILDING A HALL A 119
A5.02 SCALE: 1/4"=1'-0"



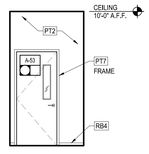
26 BUILDING A HALL A 119
A5.02 SCALE: 1/4"=1'-0"



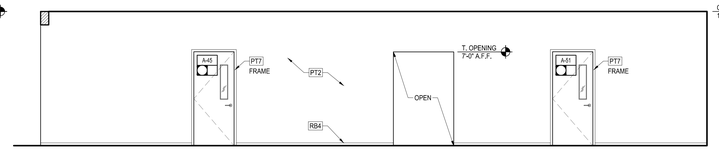
25 BUILDING A HALL A 119
A5.02 SCALE: 1/4"=1'-0"



24 BUILDING A HALL A 120
A5.02 SCALE: 1/4"=1'-0"



23 BUILDING A HALL A 120
A5.02 SCALE: 1/4"=1'-0"



22 BUILDING A HALL A 120
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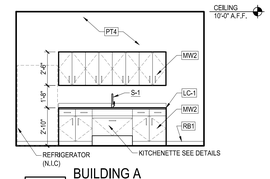

21 BUILDING A BREAK ROOM 2 A 110
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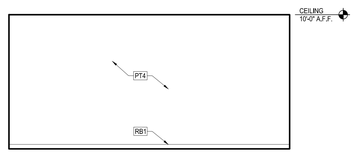

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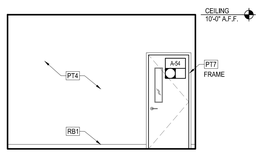

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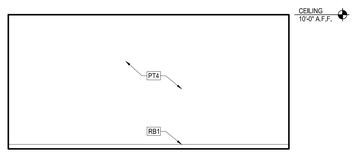

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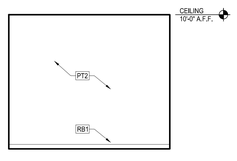

17 BUILDING A SERVICE MANAGER A 111
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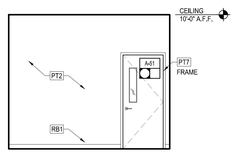

16 BUILDING A SERVICE MANAGER A 111
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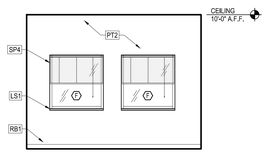

15 BUILDING A SERVICE MANAGER A 111
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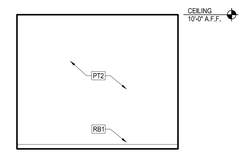

14 BUILDING A SERVICE MANAGER A 111
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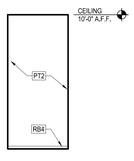

13 BUILDING A SERVICE ADMINS A 112
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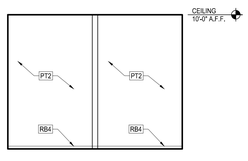

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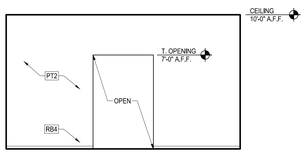

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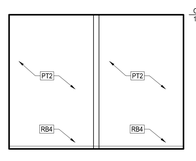

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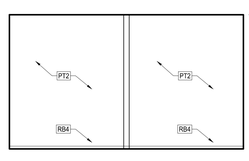

9 BUILDING A SERVICE ADMINS A 112
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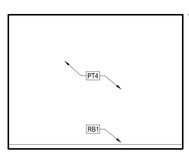
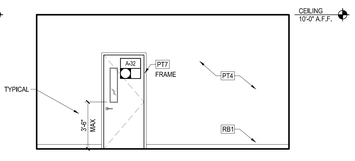


8 BUILDING A BREAK ROOM 1 A 108
A5.02 SCALE: 1/4"=1'-0"



7 BUILDING A BREAK ROOM 1 A 108
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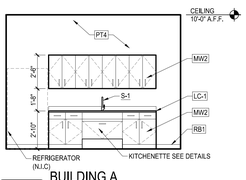

6 BUILDING A BREAK ROOM 1 A 108
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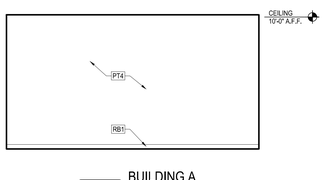

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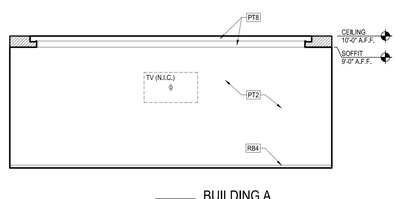
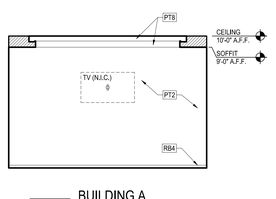


4 BUILDING A CONFERENCE A 109
A5.02 SCALE: 1/4"=1'-0"



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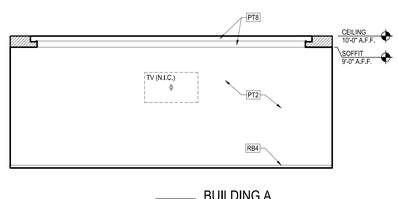
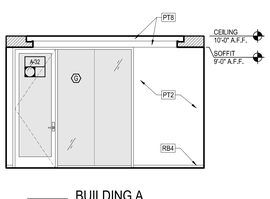
A5.02 SCALE: 1/4"=1'-0"



2 BUILDING A CONFERENCE A 109
A5.02 SCALE: 1/4"=1'-0"



1 BUILDING A CONFERENCE A 109
A5.02 SCALE: 1/4"=1'-0"

10/9/2025 12:11:26 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PRARIE INDUSTRIES COMPANY
12320 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-9448

Owner's Representative

CPRT
Capitol Projects Resource Team
450 Main Street
Baton Rouge, LA 70801
Phone: (225) 924-7206

Architect

ANTUNOVICH ASSOCIATES
ARCHITECTURE · PLANNING · INTERIOR DESIGN
224 W Huron Street
Chicago, Illinois 60654
Main: 312.266.1126
Fax: 312.266.7123

Civil Engineer

M c A D A M S
621 HILLSBOROUGH STREET, SUITE 500
RALEIGH, NC 27603
PHONE: (919)247.6904

Structural Engineer

raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 · rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - INTERIOR ELEVATIONS

Seal

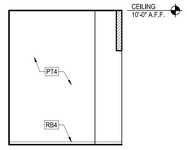
JOSEPH ANTUNOVICH
No. 6853
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

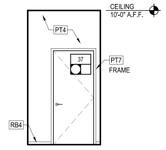
Drawing No.

A5.02

Copyright 2025



41 HALL A 132
A5.03 SCALE: 1/4"=1'-0"



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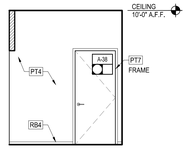

39 HALL A 132
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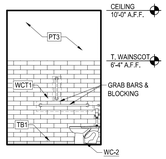

38 WMN 2 A 131
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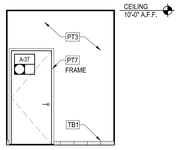

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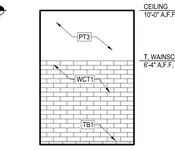

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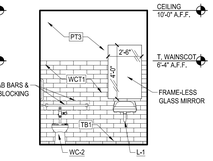

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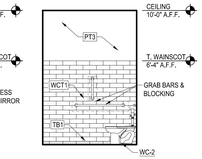

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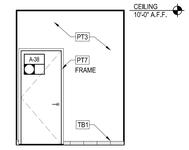

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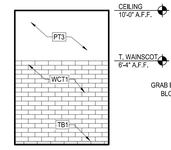

32 MEN 3 A 130
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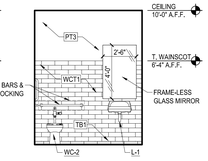

31 MEN 3 A 130
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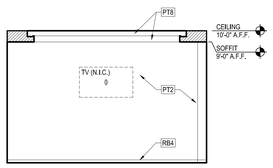

30 CONFERENCE A 129
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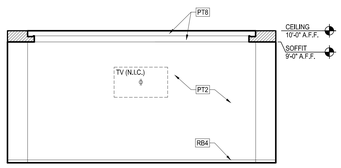

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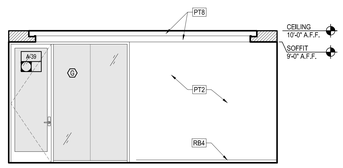

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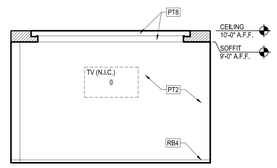

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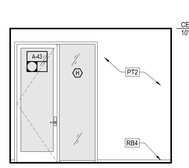

26 OFFICE A 125
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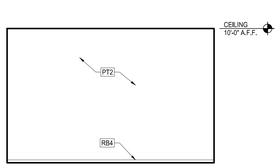
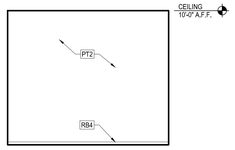
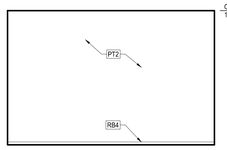


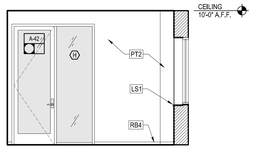
25 OFFICE A 125
A5.03 SCALE: 1/4"=1'-0"



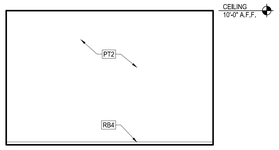
24 OFFICE A 125
A5.03 SCALE: 1/4"=1'-0"



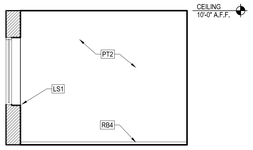
23 OFFICE A 125
A5.03 SCALE: 1/4"=1'-0"



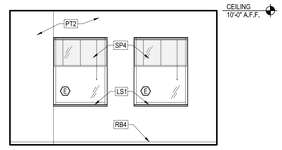
22 OFFICE A 124
A5.03 SCALE: 1/4"=1'-0"



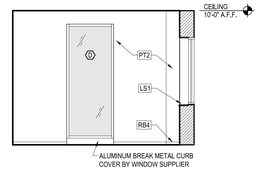
21 OFFICE A 124
A5.03 SCALE: 1/4"=1'-0"



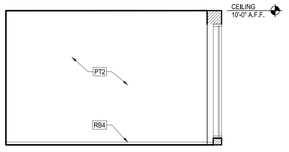
20 OFFICE A 124
A5.03 SCALE: 1/4"=1'-0"



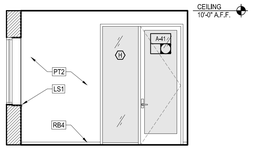
19 OFFICE A 124
A5.03 SCALE: 1/4"=1'-0"



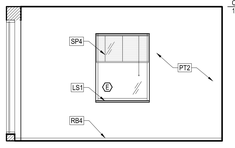
18 OFFICE A 123
A5.03 SCALE: 1/4"=1'-0"



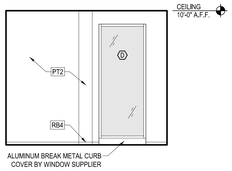
17 OFFICE A 123
A5.03 SCALE: 1/4"=1'-0"



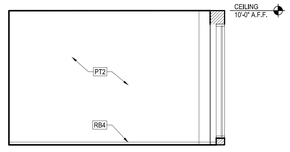
16 OFFICE A 123
A5.03 SCALE: 1/4"=1'-0"



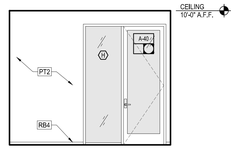
15 OFFICE A 123
A5.03 SCALE: 1/4"=1'-0"



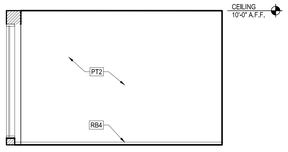
14 OFFICE A 122
A5.03 SCALE: 1/4"=1'-0"



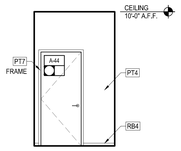
13 OFFICE A 122
A5.03 SCALE: 1/4"=1'-0"



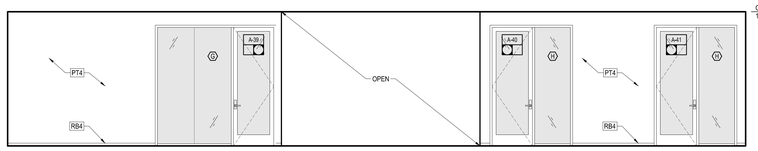
12 OFFICE A 122
A5.03 SCALE: 1/4"=1'-0"



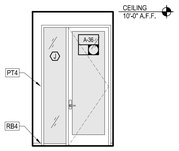
11 OFFICE A 122
A5.03 SCALE: 1/4"=1'-0"



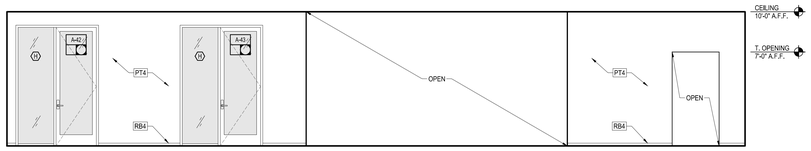
10 HALL A 127
A5.03 SCALE: 1/4"=1'-0"



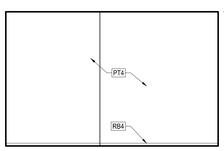
9 HALL A 127
A5.03 SCALE: 1/4"=1'-0"



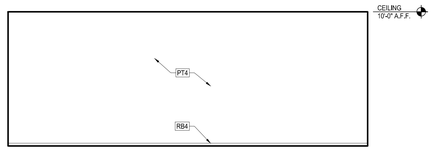
8 HALL A 127
A5.03 SCALE: 1/4"=1'-0"



7 HALL A 127
A5.03 SCALE: 1/4"=1'-0"

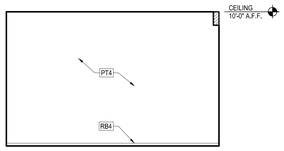


6 CORPORATE ADMINS A 125
A5.03 SCALE: 1/4"=1'-0"

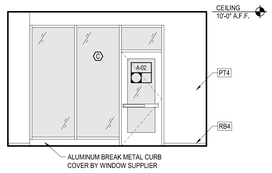


5 CORPORATE ADMINS A 125
A5.03 SCALE: 1/4"=1'-0"

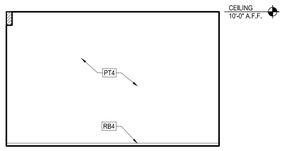
4 CORPORATE ADMINS A 125
A5.03 SCALE: 1/4"=1'-0"



3 RECEPTION A 121
A5.03 SCALE: 1/4"=1'-0"



2 RECEPTION A 121
A5.03 SCALE: 1/4"=1'-0"



1 RECEPTION A 121
A5.03 SCALE: 1/4"=1'-0"

10/9/2025 12:11:47 AM

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12330 SOUTH MAIN
HOUSTON, TX 77035
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Owner's Representative

CPRT
CAMERON PEARCE REALTY TRUST
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Baton Rouge, LA 70801
Phone: (225) 924-7206

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ANTUNOVICH ASSOCIATES
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raSmith
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(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - INTERIOR ELEVATIONS

Seal

JOSEPH ANTUNOVICH
No. 6813
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A5.03

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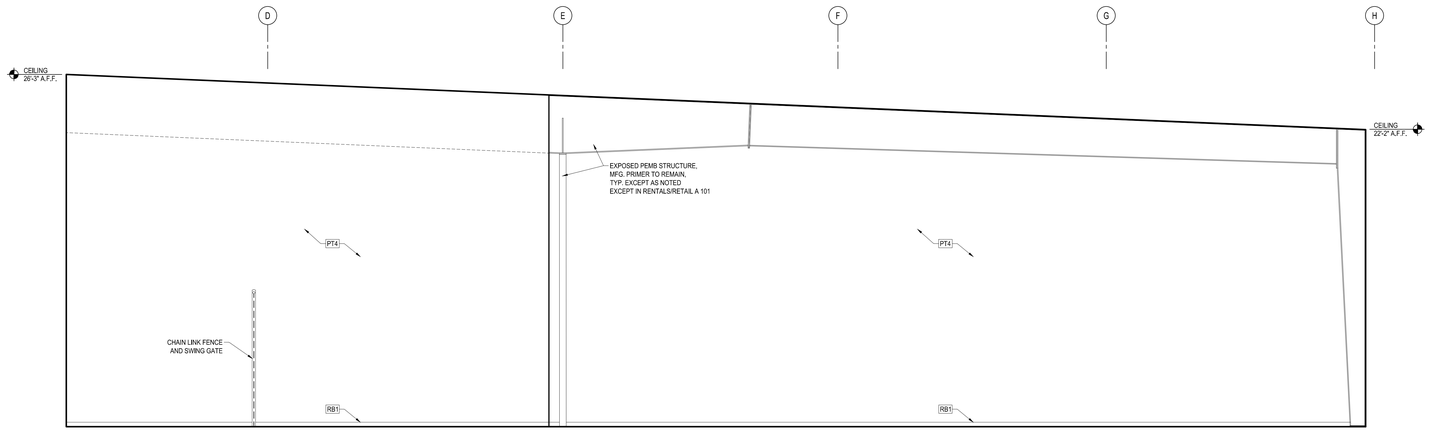
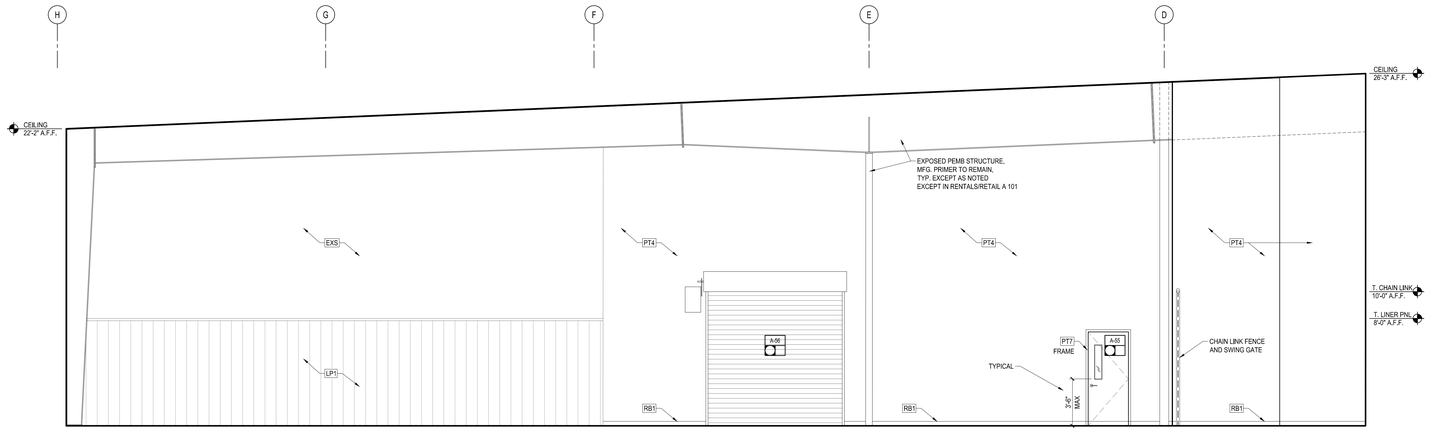
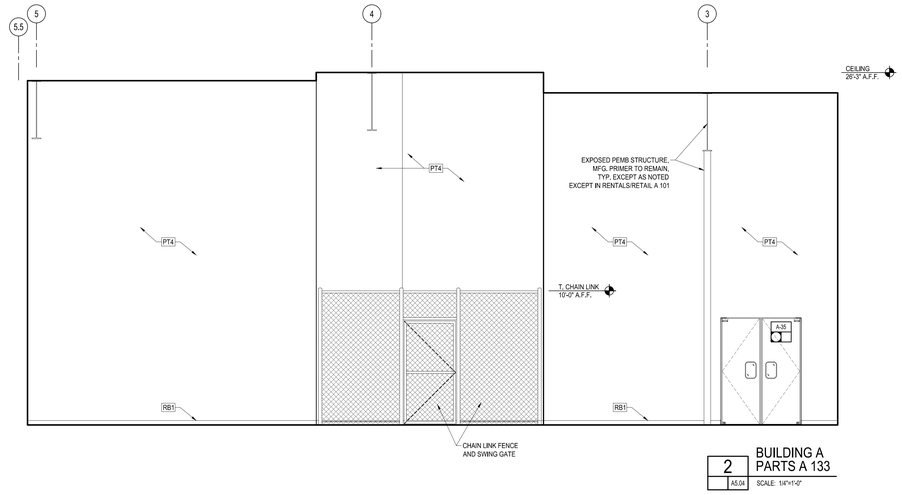


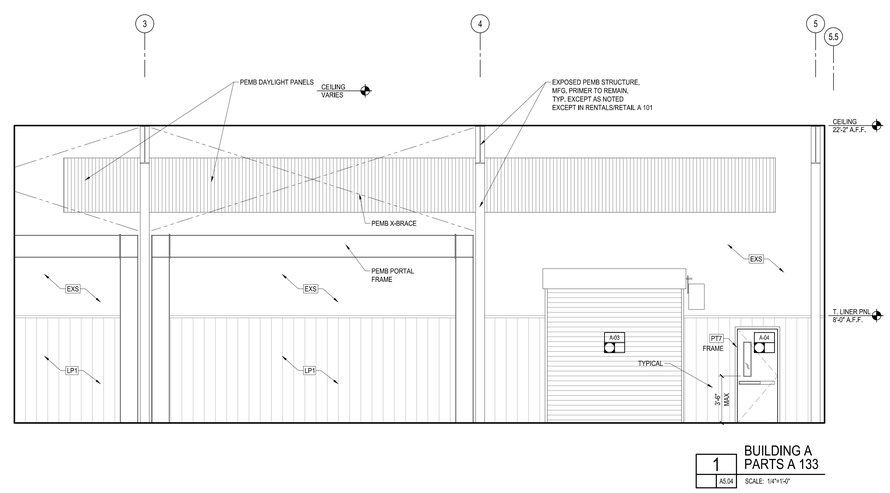
4 BUILDING A PARTS A 133
A5.04 SCALE: 1/4"=1'-0"



3 BUILDING A PARTS A 133
A5.04 SCALE: 1/4"=1'-0"



2 BUILDING A PARTS A 133
A5.04 SCALE: 1/4"=1'-0"



1 BUILDING A PARTS A 133
A5.04 SCALE: 1/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PRINCE INDUSTRIES COMPANY
12325 SOUTH MAIN
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4525 Main Street
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Phone: (225) 924-7206

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6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.398.6597

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - INTERIOR ELEVATIONS

Seal

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A5.04

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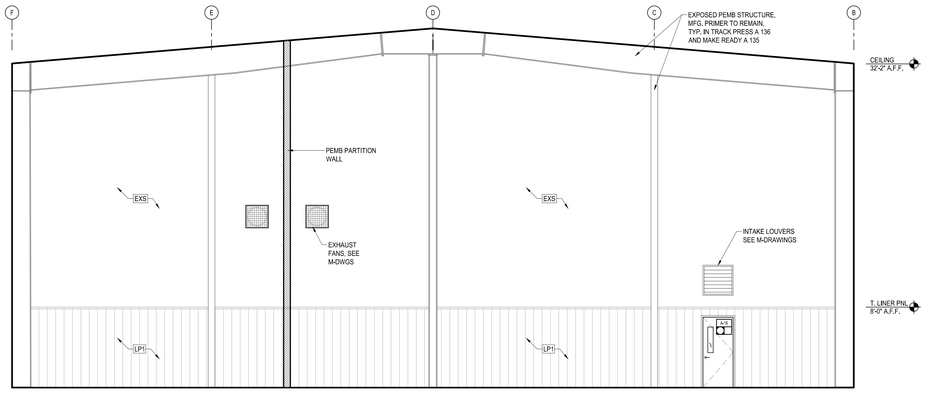
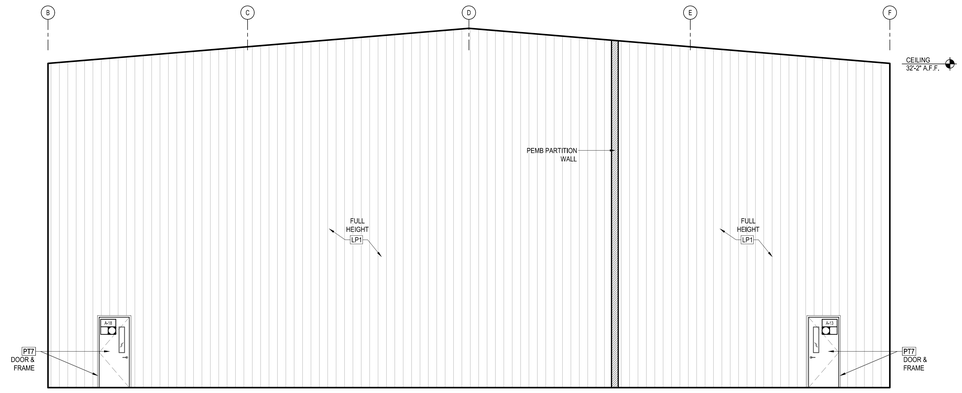
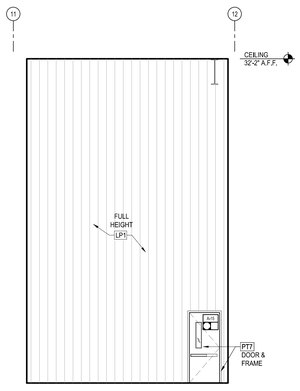


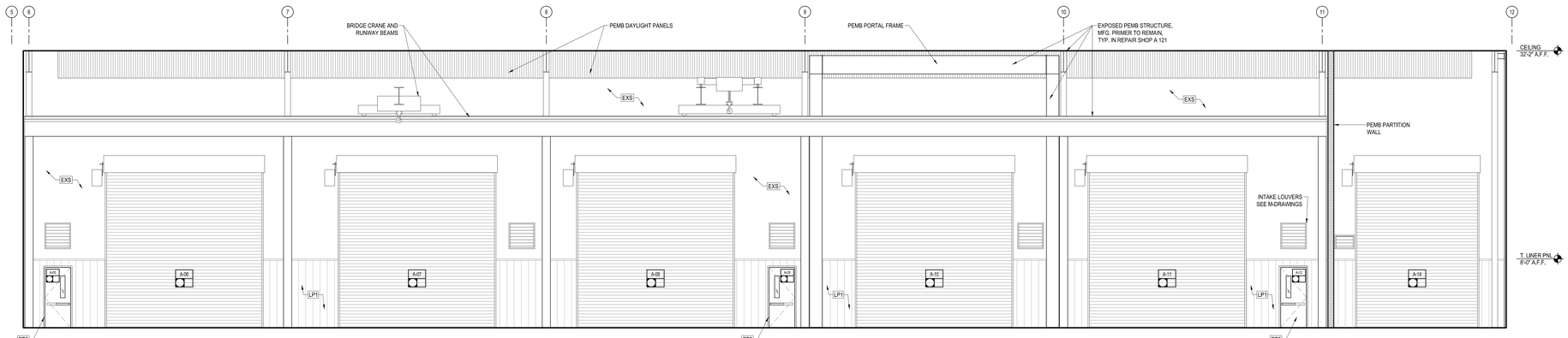
8 BUILDING A TRACK PRESS A 136
A5.05 SCALE: 3/16"=1'-0"



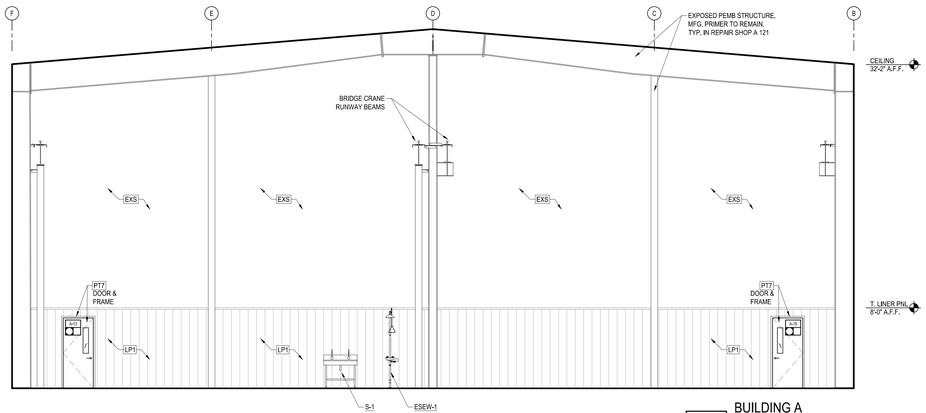
7 BUILDING A TRACK PRESS A 136
A5.05 SCALE: 3/16"=1'-0"



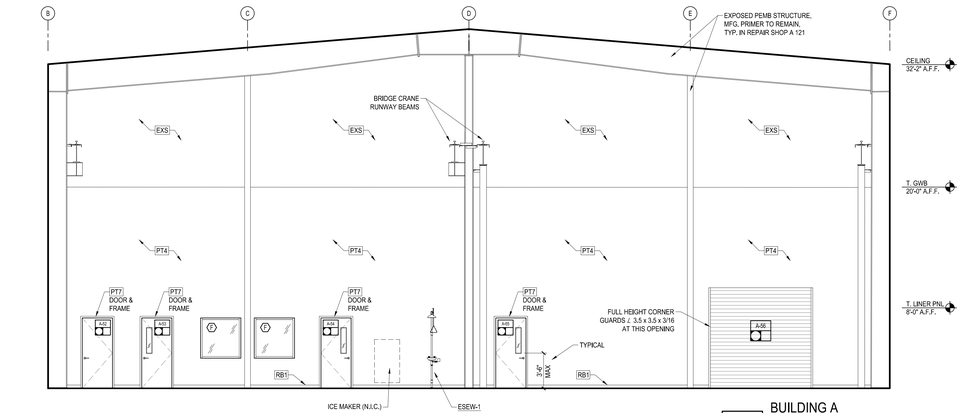
6 BUILDING A TRACK PRESS A 136
A5.05 SCALE: 3/16"=1'-0"



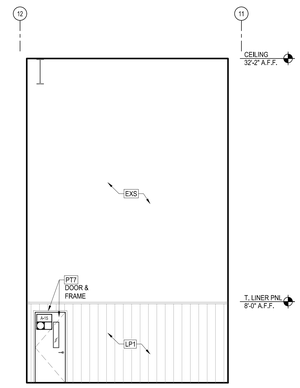
5 BUILDING A REPAIR SHOP A 134
A5.05 SCALE: 3/16"=1'-0"



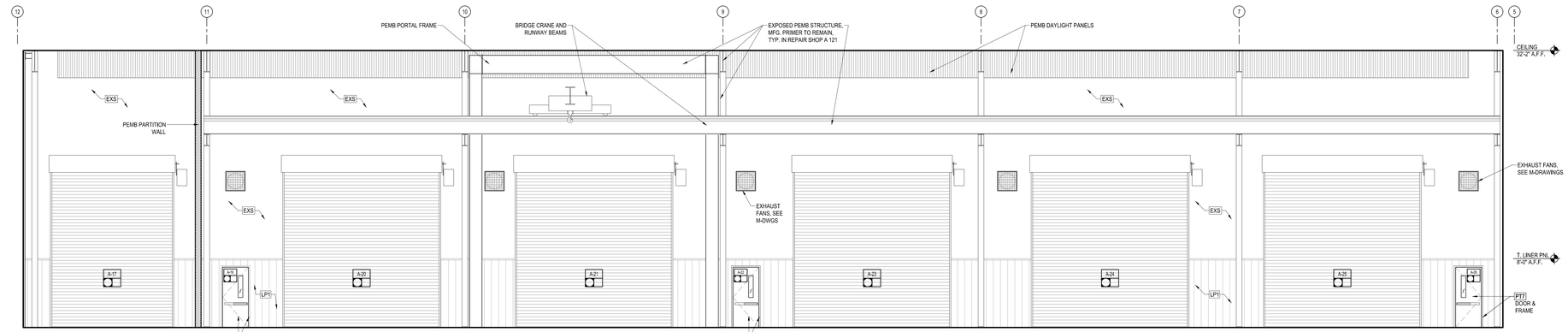
4 BUILDING A REPAIR SHOP A 134
A5.05 SCALE: 3/16"=1'-0"



3 BUILDING A REPAIR SHOP A 134
A5.05 SCALE: 3/16"=1'-0"



2 BUILDING A MAKE READY A 135
A5.05 SCALE: 3/16"=1'-0"



1 BUILDING A REPAIR SHOP A 134
A5.05 SCALE: 3/16"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PRANCE INDUSTRIES COMPANY
13226 SOUTH MAIN
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Owner's Representative

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Phone: (225) 924-7206

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RALEIGH, NC 27603
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Structural Engineer

raSmith
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M.E.P. & F.P. Engineers

INGENUITY ENGINEERS, INC.
6275 HAZELTINE NATIONAL DRIVE
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PHONE: 407.238.6507

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A - INTERIOR ELEVATIONS

Seal

JOSEPH ANTUNOVICH
No. 6893
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A5.05

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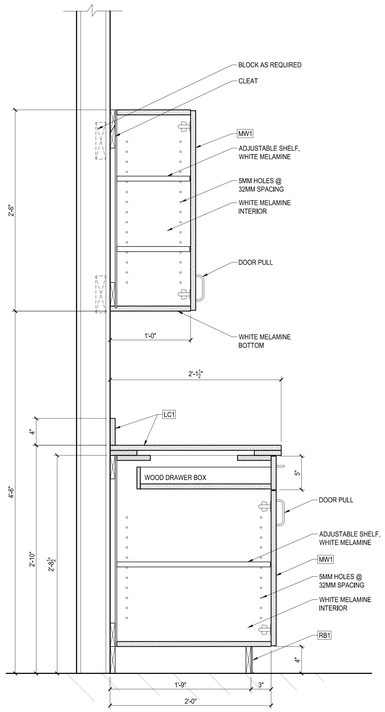
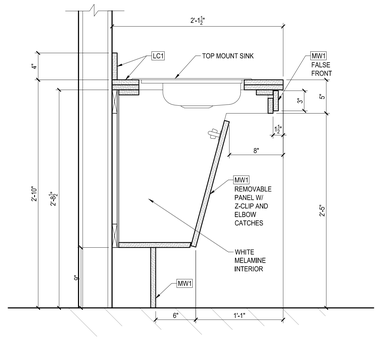
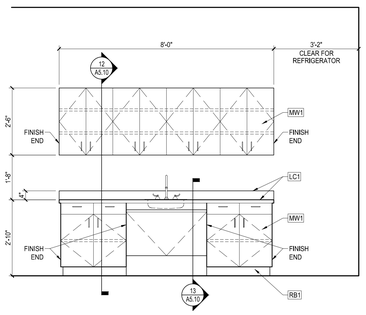
10/9/2025 12:12:31 AM



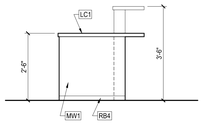
12 BREAK ROOM SECTION
A5.10 SCALE: 1 1/2"=1'-0"



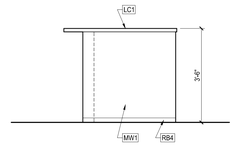
13 BREAK ROOM SECTION
A5.10 SCALE: 1 1/2"=1'-0"



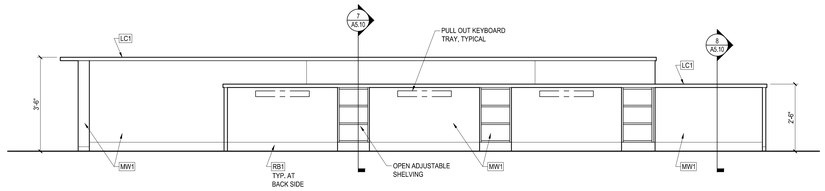
11 BREAK ROOM ELEVATION
A5.10 SCALE: 1/2"=1'-0"



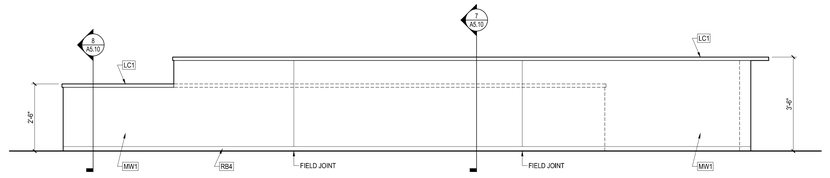
6 RENTAL COUNTER ELEVATION
A5.10 SCALE: 1/2"=1'-0"



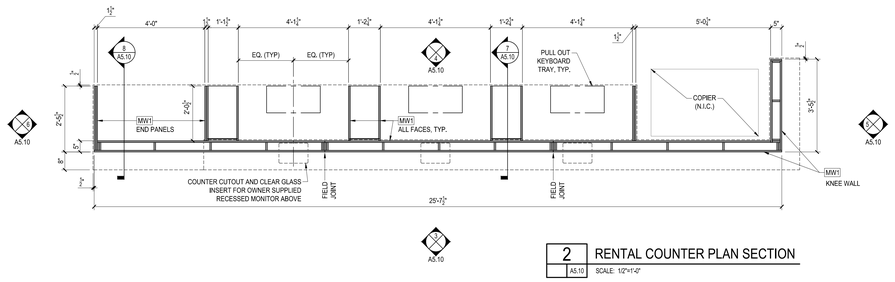
5 RENTAL COUNTER ELEVATION
A5.10 SCALE: 1/2"=1'-0"



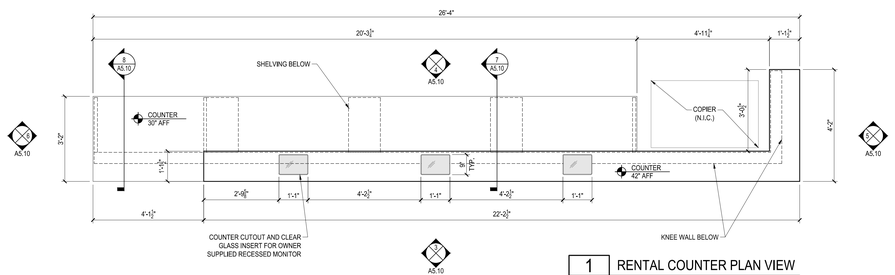
4 RENTAL COUNTER ELEVATION
A5.10 SCALE: 1/2"=1'-0"



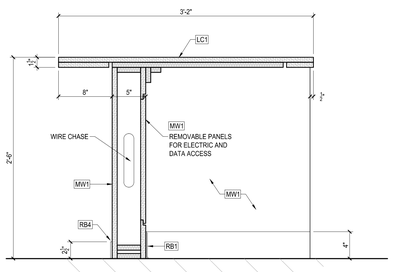
3 RENTAL COUNTER ELEVATION
A5.10 SCALE: 1/2"=1'-0"



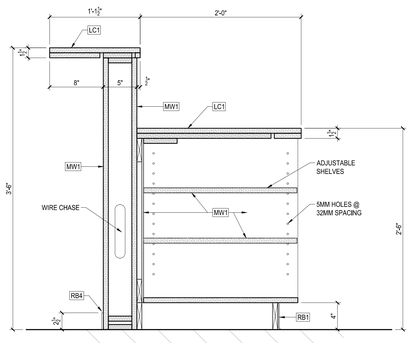
2 RENTAL COUNTER PLAN SECTION
A5.10 SCALE: 1/2"=1'-0"



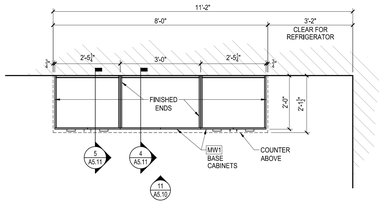
1 RENTAL COUNTER PLAN VIEW
A5.10 SCALE: 1/2"=1'-0"



8 RENTAL COUNTER SECTION
A5.10 SCALE: 1 1/2"=1'-0"



7 RENTAL COUNTER SECTION
A5.10 SCALE: 1 1/2"=1'-0"



10 BREAK ROOM PLAN SECTION AT UPPER CABINETS
A5.10 SCALE: 1/2"=1'-0"

9 BREAK ROOM PLAN SECTION AT BASE CABINETS
A5.10 SCALE: 1/2"=1'-0"

General Notes:

0	04/22/25	BULLETIN 05
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

MILLWORK DETAILS

Seal

JOSEPH ANTUNOVICH No. 18853 REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A5.10

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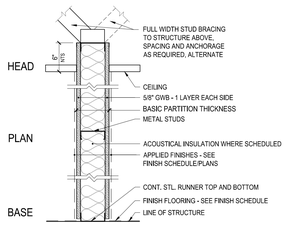
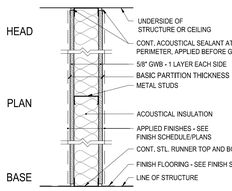
PARTITION SCHEDULE



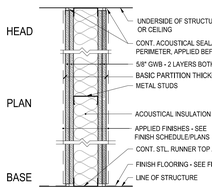
STUDS BRACED TO STRUCTURE ABOVE (SEE DETAILS)	NON RATED WITH GB TO 6" ABOVE CEILING	A1	A2	A3	A4
STUD SIZE		3 5/8"	3 5/8"	6"	6"
BASIC PARTITION THICKNESS		4 7/8"	4 7/8"	7 1/4"	7 1/4"
ACOUSTICAL INSULATION		NO	YES	NO	YES
ACOUSTICAL RATING (STC)		-	-	-	-
ACOUSTICAL TEST NUMBER		N/A	N/A	N/A	N/A
FIRE TEST NUMBER (WHERE APPLICABLE)		N/A	N/A	N/A	N/A
REMARKS		-	-	-	-

PARTITION TYPE A



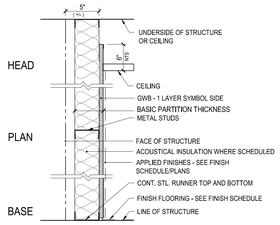
STUDS TO STRUCTURE ABOVE (SEE DETAILS)	RATED WITH GWB TO STRUCTURE ABOVE	B4	B3	B2	B1
	NON RATED WITH GB TO STRUCTURE ABOVE				
STUD SIZE		6"	6"	3 5/8"	3 5/8"
BASIC PARTITION THICKNESS		7 1/4"	7 1/4"	4 7/8"	4 7/8"
ACOUSTICAL INSULATION		YES	YES	YES	NO
ACOUSTICAL RATING (STC)		-	-	-	-
ACOUSTICAL TEST NUMBER		N/A	N/A	N/A	N/A
FIRE TEST NUMBER (WHERE APPLICABLE)		U-419	N/A	N/A	N/A
REMARKS		1 HOUR RATED FIRE PARTITION	-	-	-

PARTITION TYPE B



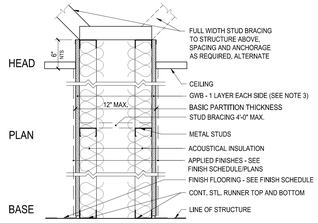
STUDS TO STRUCTURE ABOVE (SEE DETAILS)	NON RATED GB TO STRUCTURE ABOVE	C1
STUD SIZE		6"
BASIC PARTITION THICKNESS		8 1/2"
ACOUSTICAL INSULATION		YES
ACOUSTICAL RATING (STC)		-
ACOUSTICAL TEST NUMBER		-
FIRE TEST NUMBER (WHERE APPLICABLE)		-
REMARKS		-

PARTITION TYPE C



STUDS TO STRUCTURE ABOVE (SEE DETAILS)	NON RATED WITH GB TO 6" ABOVE CEILING	D1	D2
STUD SIZE		2 1/2"	3 5/8"
BASIC PARTITION THICKNESS		3 1/8"	4 1/4"
ACOUSTICAL INSULATION		NO	NO
ACOUSTICAL RATING (STC)		-	-
ACOUSTICAL TEST NUMBER		N/A	N/A
FIRE TEST NUMBER (WHERE APPLICABLE)		N/A	N/A
REMARKS		-	-

PARTITION TYPE D



STUDS BRACED TO STRUCTURE ABOVE (SEE DETAILS)	NON RATED WITH GB TO 6" ABOVE CEILING	E1
STUD SIZE		3 5/8"
BASIC PARTITION THICKNESS		12"
ACOUSTICAL INSULATION		YES (2)
ACOUSTICAL RATING (STC)		N/A
ACOUSTICAL TEST NUMBER		N/A
FIRE TEST NUMBER (WHERE APPLICABLE)		N/A
REMARKS		INSULATION ON BOTH SIDES

PARTITION TYPE E

PARTITION SCHEDULE GENERAL NOTES

1. GENERAL

A. REFERENCE ROOM FINISH SCHEDULE FOR BASES AND FINAL FINISHES NOT SHOWN ON PARTITION TYPES

2. FRAMING

A. ALL BEARING PARTITIONS SHALL BE CONSTRUCTED PER STRUCTURAL DRAWINGS AND SPECIFICATIONS

B. ALL NON-BEARING PARTITIONS SHALL BE CONSTRUCTED TO LIMIT DEFLECTION TO L/240 WITH UNIFORM 5 P.S.F. UNIFORM LOADING

C. PROVIDE DOUBLE FRAMING AT ALL JAMBS OF FRAMES AND CASED OPENINGS

D. ISOLATE NON-BEARING FRAMING FROM STRUCTURAL ELEMENTS TO PREVENT THE TRANSFER OF LOADS TO PARTITION FRAMING

E. WHERE CONTROL JOINTS ARE REQUIRED BASED ON SPECIFIED FREQUENCY, AND ARE NOT SHOWN ON INTERIOR ELEVATIONS, LOCATE CONTROL JOINTS ON BOTH THE STRIKE AND SWING SIDE OF DOORS. WHEN PROVIDING CONTROL JOINTS AT DOORS DOES NOT MEET THE SPECIFIED FREQUENCY, PROVIDE DOUBLE STUD CONTROL JOINT CONSTRUCTION AND VERIFY LOCATION WITH THE ARCHITECT.

F. SCREW ATTACHMENT OF STUDS TO RUNNER TRACKS TO OCCURR ON BOTH SIDES.

G. PROVIDE ADEQUATE SHEET METAL OR STEEL BACKING FOR ALL WALL MOUNTED ARCHITECTURAL WOODWORK, FINISH CARPENTRY, TOILET PARTITIONS AND ACCESSORIES, RAILINGS AND SIMILAR MOUNTED ITEMS.

H. ALL FRAMING SHALL COORDINATE WITH ALL BUILDING TRADES INCLUDING BUT NOT LIMITED TO MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION.

3. GYPSUM BOARD

A. ITEMS SHOWN OR SCHEDULED TO BE SEMI OR FULLY RECESSED SHALL BE INSTALLED FLUSH WITH THE FINISH FACE OF PARTITIONS UNLESS NOTED OTHERWISE. PARTITION DEPTH OR TYPE SHALL BE ADJUSTED TO ACCOMMODATE THE DEPTH OF RECESSED ITEM OR AS DIRECTED BY THE ARCHITECT

B. PROVIDE CEMENTITIOUS BACKER BOARD AT ALL SHOWER LOCATIONS AND WATER-RESISTANT BACKER BOARD AT ALL OTHER LAVATORY AND TOILET LOCATIONS

4. FIRE RATED PARTITIONS

A. PROVIDE PERMANENTLY STENCILED IDENTIFICATION ABOVE THE CEILING AT 4'-0" O.C. ON ALL CORRIDOR PARTITIONS, SMOKE PARTITIONS, HORIZONTAL EXIT PARTITIONS, EXIT ENCLOSURES, AND FIRE RATED WALLS. THE IDENTIFICATION SHALL BE A MINIMUM OF 4" HIGH AND READ AS FOLLOWS: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS"

B. RATED PARTITIONS ARE TO BE CONTSTRUCTED BEFORE NON-RATED PARTITIONS. ABUTT NON-RATED PARTITIONS TO RATED PARTITIONS.

C. ALL FIRE-RESISTANCE RATED PARTITIONS SHALL BE CONSTRUCTED FROM TOP OF NON-FINISHED FLOOR CONSTRUCTION TO BOTTOM OF FLOOR CONSTRUCTION ABOVE.

D. ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE REFERENCED FIRE RESISTANCE TEST. IF NO TEST IS REFERENCED, PROVIDE AN INDUSTRY RECOGNIZED FIRE RESISTANCE TEST OR LETTER OF ENGINEERING JUDGMENT FOR REVIEW PRIOR TO CONSTRUCTION.

E. FIRE RATED HEAD CONDITONS AND THROUGH PENETRATIONS, WHETHER A SUB-PART OF THE REFERENCED RATED ASSEMBLY, OR AS SHOWN IN DETAIL REPRESENT TYPICAL HEAD-OF-WALL CONDITIONS. ATYPICAL CONDITIONS DISCOVERED DURING REQUIRED TRADE COORDINATION ARE REQUIRED TO MAINTAIN THE INTEGRITY OF THE FIRE-RESISTANCE RATING NOTED ON THE FLOOR PLANS. PROVIDE AND INDUSTRY RECOGNIZED FIRE RESISTANCE TEST, OR LETTER OF ENGINEERING JUDGMENT, FOR ALL ATYPICAL CONDITIONS FOR REVIEW PRIOR TO CONSTRUCTION.

F. ALL THROUGH PENETRATIONS IN FIRE-RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH MATERIALS AND ASSEMBLIES NECESSARY TO MAINTAIN THE REQUIRED FIRE-RESISTANCE RATING OF THE PARTITION.

5. SOUND RESISTANCE RATING

A. ALL PARTITIONS NOTED TO BE SOUND RESISTANCE RATED (SA), SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE REFERENCED TEST.

B. GYPSUM BOARD PARTITIONS SHALL BE CONSTRUCTED WITH SOUND ATTENUATED INSULATION AS SCHEDULED. INSULATION SHALL BE CONTINUOUS AND WITHOUT INTERRUPTION.

C. ALL THROUGH PENETRATIONS IN SOUND RESISTANCE RATED PARTITIONS SHALL BE SEALED WITH ACOUSTICAL SEALANT TO MAINTAIN REFERENCED SOUND RESISTANCE RATING.

D. THROUGH PENETRATIONS IN ALL PARTITIONS NOTED TO BE SOUND RESISTANCE RATED AND FIRE RESISTANCE RATED ARE REQUIRED TO BE SEALED WITH MATERIALS CAPABLE OF MEETING BOTH SOUND AND FIRE RESISTANCE RATINGS.

WINDOW SCHEDULE

GLAZING SCHEDULE KEY

LG-1 - LAMINATED INSULATED GLAZING W/ LOW-e COATING

IG-1 - INSULATED GLAZING, CLEAR

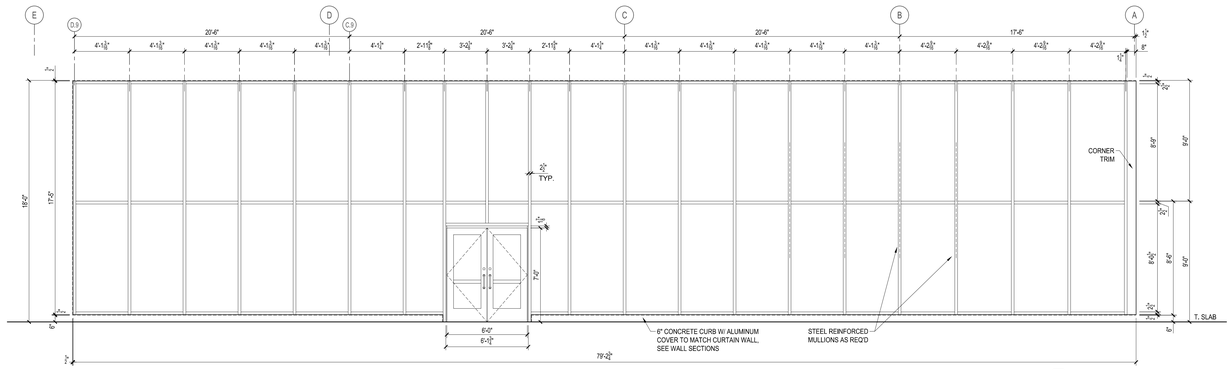
FG-1 - TEMPERED FLOAT GLASS FOR INTERIOR STOREFRONT SYSTEMS

WINDOW SCHEDULE KEY

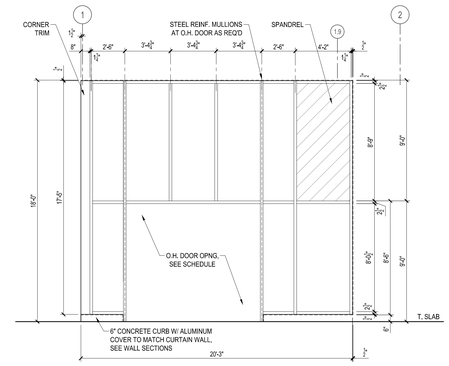
(T) TEMPERED GLASS PANES

WINDOW SCHEDULE NOTES:

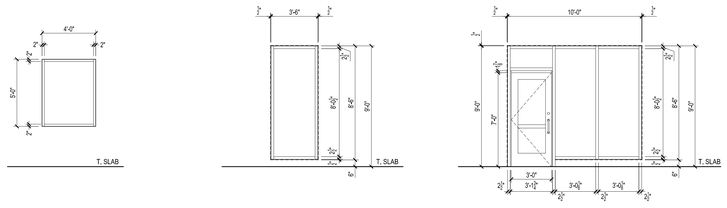
1. CONTRACTOR TO VERIFY ALL WINDOW COUNTS AND DIMENSIONS.
2. REFER TO PROJECT MANUAL FOR WINDOW SYSTEM AND GLAZING SPECIFICATIONS.
3. SEE EXTERIOR FINISH SCHEDULE FOR COLOR SELECTIONS.



A
ALUMINUM CURTAIN WALL
COUNT: 1
GLASS TYPE: LG-1



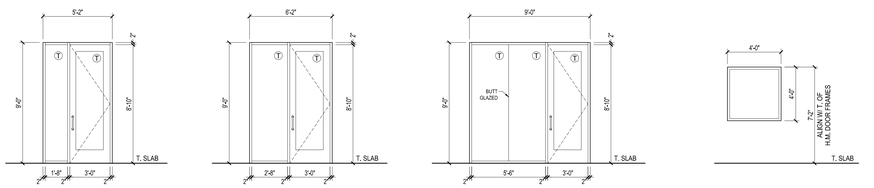
B
ALUMINUM CURTAIN WALL
COUNT: 1
GLASS TYPE: LG-1



C
ALUMINUM CURTAIN WALL
COUNT: 1
GLASS TYPE: LG-1

D
ALUMINUM CURTAIN WALL
COUNT: 1
GLASS TYPE: LG-1

E
ALUMINUM STOREFRONT
COUNT: 6
GLASS TYPE: LG-1



F
ALUMINUM STOREFRONT
COUNT: 2
GLASS TYPE: IG-1

G
ALUMINUM INTERIOR STOREFRONT
COUNT: 7
GLASS TYPE: FG-1

INTERIOR STOREFRONT BASIS OF DESIGN:
MANUFACTURER: SPECIAL-LITE, INC.
STOREFRONT MODEL: LITESPACE w/ BYPASS MULLIONS AT PERPENDICULAR PARTITIONS
DOOR MODEL: SLI 4-1/4" MEDIUM STILE

SEE PROJECT MANUAL FOR ADD. INFO.

H
ALUMINUM INTERIOR STOREFRONT
COUNT: 4
GLASS TYPE: FG-1

J
ALUMINUM INTERIOR STOREFRONT
COUNT: 4
GLASS TYPE: FG-1

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

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General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

PARTITION SCHEDULE - WINDOW SCHEDULE

Seal

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A10.01

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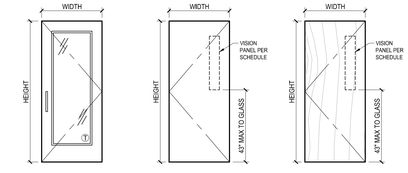
DOOR SCHEDULE

BUILDING A - REPAIR SHOP

DOOR NO.	LOCATION FROM	LOCATION TO	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	JAMB / HEAD	THRESHOLD	LABEL	HARDWARE	REMARKS
A-01	RENTALS / RETAIL A101	EXTERIOR	(2) 3'-0"	7'-0"	A	ALUM. CURTAIN WALL	FACTORY FINISH	ALUMINUM	FACTORY FINISH	-	1/A10.03	-	01	BY CURTAIN WALL WINDOW SYSTEM SUPPLIER
A-02	RECEPTION A 121	EXTERIOR	3'-0"	7'-0"	A	ALUM. CURTAIN WALL	FACTORY FINISH	ALUMINUM	FACTORY FINISH	-	1/A10.03	-	01A	BY CURTAIN WALL WINDOW SYSTEM SUPPLIER
A-03	PARTS A133	EXTERIOR	10'-0"	10'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-04	PARTS A133	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-05	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-06	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-07	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-08	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-09	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-10	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-11	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-12	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-13	MAKE READY SHOP A135	REPAIR SHOP A134	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	-	-	03	VISION PANEL
A-14	MAKE READY SHOP A135	EXTERIOR	14'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-15	TRACK PRESS A136	MAKEREADY SHOP A135	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	-	-	03	VISION PANEL
A-16	TRACK PRESS A136	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-17	TRACK PRESS A136	EXTERIOR	14'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-18	TRACK PRESS A136	REPAIR SHOP A134	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	-	-	03	VISION PANEL
A-19	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-20	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-21	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-22	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-23	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-24	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-25	REPAIR SHOP A134	EXTERIOR	18'-0"	18'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	6-11/A10.03	-	-	12	ELECTRIC OPERATOR
A-26	REPAIR SHOP A134	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-27	HALL A119	EXTERIOR	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	02	VISION PANEL
A-28	RENTALS / RETAIL A101	EXTERIOR	10'-0"	9'-0"	E	O.H. GLASS PANEL	FACTORY FINISH	-	-	-	-	-	12	ELECTRIC OPERATOR, VERTICAL LIFT KIT, IMPACT GLAZING
A-29	RENTALS / RETAIL A101	SALES / ADMIN A102	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-30	RENTALS / RETAIL A101	SALES / ADMIN A103	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-31	RENTALS / RETAIL A101	BRANCH MANAGER A104	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-32	HALL A119	CONFERENCE A109	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-33	RENTALS / RETAIL A101	SALES / ADMIN A106	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-34	RENTALS / RETAIL A101	SALES / ADMIN A107	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-35	RENTALS / RETAIL A101	PARTS A108	(2) 3'-0"	8'-0"	-	ALUM. TRAFFIC DOOR	FACTORY FINISH	H.M.	PAINTED	9-14/A10.03	-	-	BY SUPPLIER	ELIASON SCP-4 ALUM. DOUBLE ACTING TRAFFIC DOOR, VISION PANELS, CASED OPENING FRAME
A-36	HALL A127	RENTALS / RETAIL A101	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	SIDELIGHT
A-37	HALL A132	WOMEN 2 A131	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	09	
A-38	HALL A132	MEN 3 A130	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	09	
A-39	HALL A127	CONFERENCE A129	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	BUTT GLAZED SIDELIGHT
A-40	HALL A127	OFFICE A122	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	SIDELIGHT
A-41	HALL A127	OFFICE A123	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	SIDELIGHT
A-42	HALL A127	OFFICE A124	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	SIDELIGHT
A-43	HALL A127	OFFICE A125	3'-0"	8'-10"	A	ALUM. STOREFRONT	FACTORY FINISH	ALUMINUM	FACTORY FINISH	10-15/A10.03	-	-	04	SIDELIGHT
A-44	HALL A127	STORAGE A126	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	05	
A-45	HALL A120	BREAK ROOM 1 A108	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	06	VISION PANEL
A-46	HALL A119	MEN 2 A115	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	08	
A-47	HALL A119	WOMEN A116	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	09	
A-48	HALL A119	ELECT / IT A117	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	07	
A-49	SERVICE ADMINS A 112	STORAGE A113	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	05	
A-50	JANITORS CLOSET A 118	HALL A120	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	07	
A-51	HALL A120	SERVICE MANAGER A111	3'-0"	7'-0"	C	P-LAM FACED WOOD	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	05	VISION PANEL
A-52	REPAIR SHOP A120	MEN 1 A114	3'-0"	7'-0"	B	INSUL. METAL	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	08	
A-53	REPAIR SHOP A134	HALL A120	3'-0"	7'-0"	B	INSUL. METAL	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	07	VISION PANEL, KEY SIDE FACING REPAIR SHOP A 134
A-54	REPAIR SHOP A134	BREAK ROOM 2 A110	3'-0"	7'-0"	B	INSUL. METAL	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	06	VISION PANEL
A-55	REPAIR SHOP A134	PARTS A133	3'-0"	7'-0"	B	INSUL. METAL	FACTORY FINISH	H.M.	PAINTED	8-13/A10.03	-	-	07	VISION PANEL, KEY SIDE FACING REPAIR SHOP A 134
A-56	PARTS A133	REPAIR SHOP A134	10'-0"	10'-0"	D	O.H. COILING, INSUL.	FACTORY FINISH	-	-	-	-	-	12	ELECTRIC OPERATOR

BUILDING B - WASH BAY

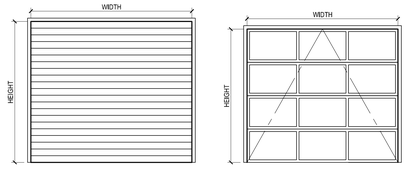
DOOR NO.	LOCATION FROM	LOCATION TO	DOOR WIDTH	DOOR HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	JAMB / HEAD	THRESHOLD	LABEL	HARDWARE	REMARKS
B-01	WASH BAY B101	WASH BAY EQUIP B102	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	11	
B-02	WASH BAY B101	WASH BAY EQUIP B102	8'-0"	10'-0"	D	O.H. COILING	FACTORY FINISH	-	-	-	-	-	13	MANUAL CHAIN FALL OPERATION
B-03	WASH BAY B101	SETTLING PITS B103	3'-0"	7'-0"	B	INSUL. METAL	PAINTED	H.M.	PAINTED	7-12/A10.03	2/A10.03	-	10	



A ALUMINUM & GLASS DOUBLE LEAF

B HOLLOW METAL DOOR

C PLAM FLUSH DOOR SOLID CORE



D OVER HEAD DOOR COILING - INSULATED OR UNINSULATED

E OVER HEAD DOOR GLASS

1 DOOR TYPES (A10.02) SCALE: 3/8"=1'-0"

HARDWARE SCHEDULE

HARDWARE GROUP NO. 01
PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112HD		IVE
2	EA	PANIC HARDWARE	25-C-NL-OP		FAL
2	EA	CYLINDER	C953-ICX		FAL
2	EA	SFIC CORE	C606		FAL
2	EA	90 DEG OFFSET PULL	8190HD 10" O		IVE
2	EA	OH STOP	100S		GLY
2	EA	SURFACE CLOSER	SC71 HDPA		FAL
2	EA	TOP RAIL DROP PLATE	SC70-18PA (AS REQ'D)		FAL
2		PERIMETER SEALS	BY ALUM. FRAME SUPPLIER		
2	EA	DOOR SWEEP	600DKB		NGP
2	EA	SADDLE THRESHOLD	425DKB		NGP

NOTE: HARDWARE SET 1A IS FOR A SINGLE DOOR SAME AS ABOVE.

HARDWARE GROUP NO. 02
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD		IVE
1	EA	PANIC HARDWARE	25-R-L-510-DANE		FAL
1	EA	MORTISE CYLINDER	C987-ICX		FAL
1	EA	SFIC CORE	C606		FAL
1	EA	OH STOP	90S		GLY
1	EA	SURFACE CLOSER	SC71 HDPA X REQ'D SPECIAL TEMPLATE FOR OHS		FAL
1	SET	SEALS	135NDKB		NGP
1	EA	DOOR SWEEP	200NDKB		NGP
1	EA	THRESHOLD	896SDKB		NGP

HARDWARE GROUP NO. 03
PROVIDE EACH PR DOOR(S) WITH THE FOLLOWING

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD		IVE
1	EA	PANIC HARDWARE	25-R-L-510-DANE		FAL
1	EA	MORTISE CYLINDER	PASSAGE SET, NO LOCK		FAL
1	EA	SFIC CORE	-		FAL
1	EA	OH STOP	90S		GLY
1	EA	SURFACE CLOSER	SC71 HDPA X REQ'D SPECIAL TEMPLATE FOR OHS		FAL
1	SET	SEALS	135NDKB		NGP

HARDWARE GROUP NO. 04
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
4	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	ENTRY / OFFICE LOCK	T511GD6 DANE		FAL
1	EA	FLOOR STOP	FS13		IVE
1	SET	PERIMETER SEALS	BY ALUM. FRAME SUPPLIER		

HARDWARE GROUP NO. 05
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	ENTRY / OFFICE LOCK	T511GD6 DANE		FAL
1	EA	FLOOR STOP	FS13		IVE
3	EA	SILENCER	SR64		IVE

HARDWARE GROUP NO. 06
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	PASSAGE SET	T101S DANE		FAL
1	EA	SURFACE CLOSER	SC71 (PULL SIDE)		FAL
1	EA	FLOOR STOP	FS13		IVE
1	SET	SEALS	5050B		NGP

HARDWARE GROUP NO. 07
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	CLASSROOM LOCK	T561GD6 DANE		FAL
1	EA	SURFACE CLOSER	SC71 HDPA		FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B4E CS		IVE
1	EA	FLOOR STOP	FS13		IVE
1	SET	SEALS	5050B		NGP

HARDWARE GROUP NO. 08
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	PUSH PLATE	8200 6" X 16"		IVE
1	EA	PULL PLATE	8303 10" 6" X 16"		IVE
1	EA	SURFACE CLOSER	SC71 (PULL SIDE)		FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B4E CS		IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B4E CS		IVE
1	EA	FLOOR STOP	FS13		IVE
1	SET	SEALS	5050B		NGP

HARDWARE GROUP NO. 09
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5		IVE
1	EA	PASSAGE SET	T101S DANE		FAL
1	EA	DEADBOLT	D271		FAL
1	EA	SURFACE CLOSER	SC71 (PULL SIDE)		FAL
1	EA	KICK PLATE	8400 10" X 2" LDW B4E CS		IVE
1	EA	MOP PLATE	8400 4" X 1" LDW B4E CS		IVE
1	EA	FLOOR STOP	FS13		IVE
1	SET	SEALS	5050B		NGP

HARDWARE GROUP NO. 10
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	313AN	IVE
1	EA	STOREROOM LOCK	T581GD6 DANE	613	FAL
1	EA	SURFACE CLOSER	SC71 SS	695	FAL

HARDWARE GROUP NO. 11
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224HD	313AN	IVE
1	EA	CLASSROOM LOCK	T561GD6 DANE	613	FAL
1	EA	SURFACE CLOSER	SC71 (PULL SIDE)	695	FAL
1	SET	SEALS	135NDKB	DKB	NGP
1	EA	DOOR SWEEP	200NDKB	DKB	NGP
1	EA	THRESHOLD	896SDKB	DKB	NGP

HARDWARE GROUP NO. 12
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
			ALL HARDWARE BY DOOR		
			MANUFACTURER/SUPPLIER		

O.H. DOOR NOTES:

1. PROVIDE EACH DOOR WITH ELECTRIC OPERATOR.
2. GC AND DOOR INSTALLER TO COORDINATE TRACK LOCATIONS WITH RAIL CRANE, SPRINKLER LINES, SHOP LIGHTING, PORTAL FRAMES, AND ALL AFFECTED TRADES.
3. GC TO COORDINATE MISC. STEEL INSTALLATION AT PAD LOCATIONS.

HARDWARE GROUP NO. 13
PROVIDE EACH SGL DOOR(S) WITH THE FOLLOWING:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
			ALL HARDWARE BY DOOR		
			MANUFACTURER/SUPPLIER		

O.H. DOOR NOTES:

1. PROVIDE EACH DOOR WITH MANUAL CHAIN FALL OPERATOR.
2. PROVIDE LOCKING HASP

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
WPI
A PEARCE INDUSTRIES COMPANY
12320 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (888)458-6448

Owner's Representative
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CENTRAL PARKING SYSTEM, INC.
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Baton Rouge, LA 70801
Phone: (225) 924-7206

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M.E.P. & F.P. Engineers
INGENUITY ENGINEERS, INC.
6375 HAZELTINE NATIONAL DRIVE
ORLANDO, FL 32822
PHONE: 407.298.6997

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
DOOR SCHEDULE

Seal
JOSEPH ANTUNOVICH
No. 001-006751
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A10.02

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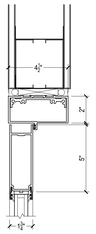
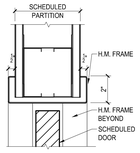
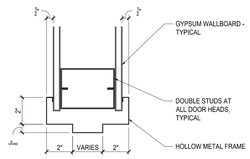
HEADS



15 INTERIOR STOREFRONT - HEAD
A10.03 SCALE: 3"=1'-0"

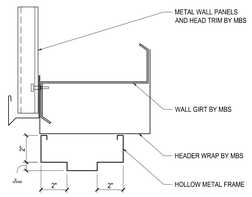


14 HOLLOW METAL HEAD - CASED OPENING
A10.03 SCALE: 3"=1'-0"

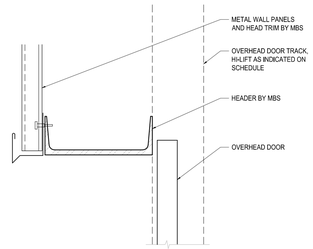


FOR PARTITION TYPE AND THICKNESS SEE PARTITION DETAILS

13 HOLLOW METAL HEAD - PARTITION WALL
A10.03 SCALE: 3"=1'-0"

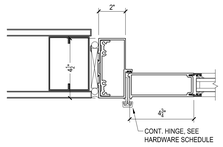


12 HOLLOW METAL HEAD - METAL BUILDING
A10.02 SCALE: 3"=1'-0"

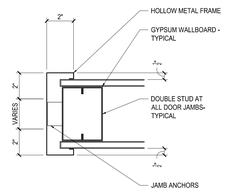


11 OVERHEAD DOOR HEAD - METAL BUILDING
A10.02 SCALE: 3"=1'-0"

JAMBS

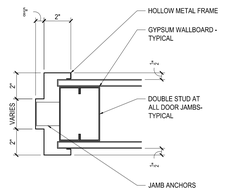


10 INTERIOR STOREFRONT - JAMB
A10.02 SCALE: 3"=1'-0"



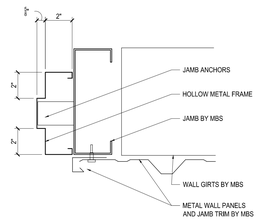
FOR PARTITION TYPE AND THICKNESS SEE PARTITION DETAILS

9 HOLLOW METAL JAMB - CASED OPENING
A10.02 SCALE: 3"=1'-0"

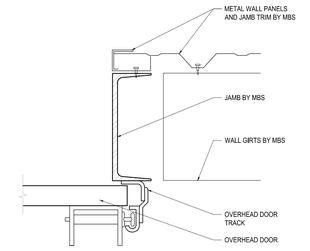


FOR PARTITION TYPE AND THICKNESS SEE PARTITION DETAILS

8 HOLLOW METAL JAMB - PARTITION WALL
A10.02 SCALE: 3"=1'-0"

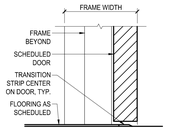


7 HOLLOW METAL JAMB - METAL BUILDING
A10.02 SCALE: 3"=1'-0"

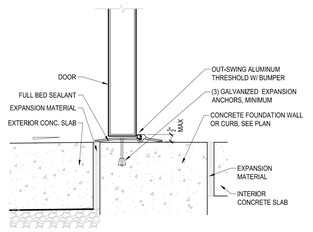


6 OVERHEAD DOOR JAMB - METAL BUILDING
A10.02 SCALE: 3"=1'-0"

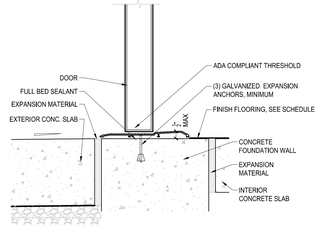
THRESHOLDS



3 INTERIOR FLOORING THRESHOLD DETAIL
A10.03 SCALE: 3"=1'-0"



2 EXTERIOR MAN DOOR THRESHOLD DETAIL
A10.02 SCALE: 3"=1'-0"



1 ADA THRESHOLD DETAIL
A10.02 SCALE: 3"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
DOOR DETAILS

Seal
JOSEPH ANTUNOVICH
Reg. No. 40437
STATE OF ILLINOIS
REGISTERED ARCHITECT

Date:
Drawn By:
Checked By:
Project No:

Drawing No.
A10.03

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10/9/2025 12:13:41 AM

ROOM FINISH SCHEDULE

BUILDING A - REPAIR SHOP

ROOM NUMBER	ROOM NAME	WALL FINISH				FLOOR	BASE	CEILING	MILLWORK	REMARKS
		NORTH	EAST	SOUTH	WEST					
		FINISH	FINISH	FINISH	FINISH	FINISH	TYPE	FINISH		
A 101	RENTALS / RETAIL	PT1, VWG1	PT1, VWG1	PT1, VWG1	PT1, VWG1	PC1	RB2	EXS, PT-5	-	LEVEL 5 FINISH ON ALL WALLS FOR VINYL GRAPHICS
A 102	SALES / ADMIN	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	-	
A 103	SALES / ADMIN	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	LS1	
A 104	BRANCH MANAGER	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	LS1	
A 105	PARTS MANAGER	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	-	
A 106	SALES / ADMIN	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	-	
A 107	SALES / ADMIN	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	-	
A 108	BREAK 1	PT4	PT4	PT4	PT4	LVT1	RB1	ACT1	MW2, LC1	
A 109	CONFERENCE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1 / PT-8	-	
A 110	BREAK 2	PT4	PT4	PT4	PT4	LVT1	RB1	ACT1	MW2, LC1	
A 111	SERVICE MANAGER	PT2	PT2	PT2	PT2	CPT1	RB1	ACT1	LS1	
A 112	SERVICE ADMINS	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	-	
A 113	STORAGE	PT2	PT2	PT2	PT2	CPT1	RB1	ACT1	-	
A 114	MEN 1	SP2 / SP3	SP2 / SP3	SP2 / SP3	SP2 / SP3	CS1	RB3	ACT1	-	
A 115	MEN 2	PT3	PT3	PT3, WCT1	PT3, WCT1	FT1	TB1	ACT1	-	
A 116	WOMEN	PT3	PT3, WCT1	PT3, WCT1	PT3	FT1	TB1	ACT1	-	
A 117	ELECTRIC / IT	PT4	PT4	PT4	EXS	CS1	RB1	ACT1	-	
A 118	JANITORS CLOSET	SP3	SP3	SP3	SP3	CS1	RB3	ACT	-	
A 119	HALL	PT2	PT2	PT2	PT2	PC1	RB4	ACT1	-	
A 120	HALL	PT2	PT2	PT2	PT2	PC1	RB4	ACT1	-	
A 121	RECEPTION	PT4	PT4	PT4	PT4	PC1	RB4	ACT1	-	
A 122	OFFICE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	LS1	
A 123	OFFICE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	LS1	
A 124	OFFICE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1	LS1	
A 125	OFFICE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1		
A 126	STORAGE	PT2	PT2	PT2	PT2	CPT1	RB1	ACT1	-	
A 127	HALL	PT4	PT4	PT4	PT4	PC1	RB4	ACT1	-	
A 128	CORPORATE ADMINS	PT4	PT4	PT4	PT4	PC1	RB4	ACT1	-	
A 129	CONFERENCE	PT2	PT2	PT2	PT2	CPT1	RB4	ACT1 / PT-8	-	
A 130	MEN 3	PT3, WCT1	PT3, WCT1	PT3, WCT1	PT3	FT1	TB1	ACT1	-	
A 131	WOMEN 2	PT3	PT3, WCT1	PT3, WCT1	PT3, WCT1	FT1	TB1	ACT1	-	
A 132	HALL	PT4	PT4	PT4	PT4	PC1	RB4	ACT1	-	
A 133	PARTS	PT4	LP1, EXS	LP1, EXS	PT4	CS1	RB1	EXS	-	RB1 AT GWB PARTITIONS ONLY
A 134	REPAIR SHOP	LP1, PT4, EXS	LP1, EXS	LP1, EXS	LP1, EXS	CS1	RB1	EXS	-	RB1 AT GWB PARTITIONS ONLY
A 135	MAKE READY SHOP	LP1, EXS	LP1, EXS	LP1, EXS	LP1, EXS	CS1	-	EXS	-	
A 136	TRACK PRESS	LP1, EXS	LP1, EXS	LP1, EXS	LP1, EXS	CS1	-	EXS	-	

BUILDING B - WASH BAY

ROOM NUMBER	ROOM NAME	WALL FINISH				FLOOR	BASE	CEILING	MILLWORK	REMARKS
		NORTH	EAST	SOUTH	WEST					
		FINISH	FINISH	FINISH	FINISH	FINISH	TYPE	FINISH		
B 101	WASH BAY	EXS	EXS	EXS	EXS	BF1	-	EXS	-	
B 102	WASH BAY EQUIPMENT	EXS	EXS	EXS	EXS	BF1	-	EXS	-	
B 103	SETTLING PITS	EXS	EXS	EXS	EXS	BF1	-	EXS	-	
B 104	DRYING PAD	EXS	EXS	EXS	EXS	BF1	-	EXS	-	

EXTERIOR FINISH LEGEND

BUILDING A

MATERIAL	MANUFACTURER	PRODUCT	FINISH/COLOR	NOTES
ACM WALL PANELS		Back ventilated rainscreen design.	PPG Industries, BN3L201B Duranar XL	Fill all skyward facing joints.
			Uptown Blue 2002596 w/ BN5C100B Clear	
CORRUGATED METAL WALL PANELS	**Berridge**	Deep-Deck Panel, 7.2" Centers, 24 guage	Color: Shasta White	Trim color to match panels, exposed fasteners
METAL WALL R-PANELS	**Whirlwind**	R-Panel	Color: Polar White	
PEMB TRIM, GUTTERS, AND DS	**Whirlwind**		Color: Polar White	
PEMB DAYLIGHT WALL PANELS	**Whirlwind**			
STANDING SEAM ROOF	**Whirlwind**		Cool White	
ALUMINUM CURTAIN WALL	**Kawneer**		Bone White	
ALUMINUM STOREFRONT	**Kawneer**		Bone White	
ALUMINUM SUNSHADE	**OMI Architectural Metal Solutions**	SV12A Aluminum Sunshade Assembly	Bone White	Match Curtain Wall
		2 x 12 Airfoil Blade, Extruded Aluminum		
STEEL COLUMNS AT SUNSHADE		High performance exterior paint	Bone White	Match Curtain Wall
OVERHEAD COILING DOORS	**Wayne Dalton**		White	
HOLLOW METAL DOORS AND FRAMES			Painted, PT-7	
BOLLARDS		Concrete filled steel pipe bollards.	Painted / High-Viz safety yellow.	

BUILDING B

MATERIAL	MANUFACTURER	PRODUCT	FINISH/COLOR	NOTES
METAL WALL R-PANELS	**Whirlwind**	R-Panel	Almond	
PEMB TRIM, GUTTERS, AND DS	**Whirlwind**		Surfsand	
PBR GALVALUME ROOF PANELS	**Whirlwind**	Screw down roof	Galvalume	
EXPOSED METAL BUILDING STRUCTURE	**PEMB supplier**	Hot Dipped Galvanzied		All PEMB components in the wash bay to be
				Galvanized
OVERHEAD COILING DOORS	**Wayne Dalton**		Beige	
HOLLOW METAL DOORS AND FRAMES			Painted, match Surfasnd PEMB trim.	
CONCRETE BLOCK WALLS			Painted, match adjacent wall panels.	
BOLLARDS		Concrete filled steel pipe bollards.	Painted / High-Viz safety yellow.	

FINISH LEGEND

FLAG	MATERIAL	SUPPLIER	DESCRIPTION	NOTES
FLOORING				
LVT1	LUXURY VINYL TILE	**TARKETT**	PRODUCT: iD Latitude Wood	
			COLOR: Golden Oak	
			SIZE: 6" x 48" x 20 mil	
			INSTALLATION: Staggered	
CPT1	CARPET TILE	J&J Flooring	PRODUCT: Fractured Plaid	
			COLOR: 2884 Plush	
			SIZE: 24 x 24	
			INSTALLTION:	
FT1	PORCELAIN FLOOR TILE	**DALTILE**	PRODUCT: Portfolio	Grout: Mapei 5047 Charcoal
			COLOR: Iron Grey PF06 Matte	
			SIZE: 12 x 24	
			INSTALLTION: 1/3 Running Bond	
PC1	POLISHED CONCRETE		See Project Manual	Fill all joints prior to polishing.
CS1	CONCRETE SEALER	**EUCO**	PRODUCT: Diamond Hard	Caulk all saw joints in exposed concrete floors.
BF1	HEAVY BROOM FINISH			Caulk all saw joints in exposed concrete floors.
WALL BASE AND TRIM				
RB1	WALL BASE	FLEXCO	PRODUCT: Vinyl Cove Base	Breakrooms and BOH Spaces
			SIZE: 4"	
			COLOR: 093 Graphite	
RB2	WALL BASE	FLEXCO	PRODUCT: Straight	Rentals / Retail A 101, Halls A 118, A 119
			SIZE: 2.5"	
			COLOR: 534 Gardenia	
RB3	WALL BASE	FLEXCO	PRODUCT: Vinyl Cove Base	Men 1 A 114, J.C. A 122
			SIZE: 4"	
			COLOR: 025 Light Grey	
RB4	WALL BASE	FLEXCO	PRODUCT: Straight	Offices and Rental Counter
			SIZE: 2.5"	
			COLOR: 093 Graphite	
TB1	TILE BASE	DALTILE	PRODUCT: Portfolio	Grout: Mapei 5047 Charcoal
			COLOR: Iron Grey PF06 Matte	Schluter at GWB, cut floor tile with a
			SIZE: 4 x 24 (cut from FT1)	square edge at WCT1
WALLS				
PT1	PAINT	**SHERWIN WILLIAMS**	COLOR: SW-7006 Extra White	Walls, Rental/Retail A101
			TYPE: ProMar 200 Latex	
			FINISH: Eggshell	
PT2	PAINT	**SHERWIN WILLIAMS**	COLOR: SW 7017 Dorian Grey	Walls, Offices
			TYPE: ProMar 200 Latex	
			FINISH: Eggshell	
PT3	PAINT	**SHERWIN WILLIAMS**	COLOR: SW 9148 Smoky Azurite	Walls, Restrooms
			TYPE: ProMar 200 Latex	
			FINISH: Eggshell	
PT4	PAINT	**SHERWIN WILLIAMS**	COLOR: SW-7075 Repose Grey	Walls, Break Rooms and BOH spaces
			TYPE: ProMar 200 Latex	
			FINISH: Eggshell	
PT5	PAINT	**SHERWIN WILLIAMS**	COLOR: SW-6203 Spare White	PEMB Building frames in Rental/Retail A101
			TYPE: Pro Industrial WB ALK UR EN	
			FINISH: Semi-Gloss	
PT6	PAINT	**Not Used**		
PT7	PAINT	**SHERWIN WILLIAMS**	COLOR: SW-7068 Grizzle Gray	Interior Hollow metal doors and frames.
			TYPE: Pro Industrial WB ALK UR EN	
			FINISH: Semi-Gloss	
PT8	PAINT	**SHERWIN WILLIAMS**	COLOR: SW-7006 Extra White	Ceiling Paint
			TYPE: ProMar 200 Latex	
			FINISH: Flat	
VWG1	VINYL WALL GRAPHICS			By owner, GC to provide Level 5 finish
				in Rental/Retail A101
WCT1	TILE WAINSCOT	**DALTILE**	PRODUCT: Color Wheel - Linear (Subway)	Grout: Mapei 5117 Pure White
			SIZE: 4 x 12	Schluter Schiene trim at top of tile.
			COLOR: Arctic White 0190	
LP1	METAL LINER PANEL	**BY M.B.S.**	COLOR: Polar White	
EXS	EXPOSED STRUCTURE	**BY M.B.S.**		Exposed HDPE Scrim at insulation.
COUNTERTOP MATERIAL				
LC1	LAMINATE COUNTERTOP	**WILSONART**	COLOR: Charcoal Velvet 15504-31	Counter edge finish to match top
			FINISH: Traceless Finish	
LC2	NOT USED	**-**	-	-
LS1	LAMINATE WINDOW SILL	**WILSONART**	COLOR: Crystal D388-60	
			FINISH: Traceless Finish	
MILLWORK AND CABINETS				
MW1	RENTAL COUNTER	**WILSONART**	COLOR: Charcoal Velvet 15504-31	Cabinet Interiors: White Melamine
			FINISH: Traceless Finish	Drawer Boxes: Baltic Birch, Clear finish.
MW2		**Not Used**		
CEILING				
ACT-1	ACOUSTIC CEILING TILE	**CERTAINTEED**	MODEL:	
			SIZE: 2 x 2 Reveal Edge	
			GRID: 15/16" White Aluminum	
EXS	EXPOSED STRUCTURE	**BY M.B.S.**		Exposed HDPE Scrim at insulation.
SPECIALTY				
SP1	TOILET PARTITIONS	**ASI**	PRODUCT: Solid Plastic (HDPE)	
			COLOR: Charcoal 9237	
SP2	FRP WALL PANELS	**CRANE COMPOSITES**	PRODUCT: Glasbord Pebbled Embossed	4'-0" wainscot above baseboard.
			COLOR: Pearl Grey 48	
SP3	FRP WALL PANELS	**CRANE COMPOSITES**	PRODUCT: Glasbord Pebbled Embossed	Top of wainscot to ceiling.
			COLOR: White 85	
SP4	HORIZ. LOUVER BLINDS	**HUNTER DOUGLAS**	PRODUCT: Décor 1"	
			COLOR:	

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

FINISH SCHEDULES

Seal

JASON ANTUNOVICH
No. 6201
REGISTERED ARCHITECT
STATE OF ILLINOIS

Date:
Drawn By:
Checked By:
Project No:

Drawing No.

A10.04

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1.00 DESIGN CRITERIA

1.01 Design Assumptions

Location: BATON ROUGE, LOUISIANA
Building Code: INTERNATIONAL BUILDING CODE 2021

Foundation loads superimposed from the superstructure have been provided by Whirlwind Steel Buildings, Inc. (Job #14654-37882)
The foundation designs are based on these superimposed loads.

LIVE LOAD PARAMETERS:

Roof:	20 psf (Reducible)
Office:	100 psf
Conference Rooms:	100 psf
Lobby:	100 psf
Washrooms:	100 psf
Light Storage:	125 psf
Mechanical:	100 psf
Wash Bay/Repair Shop:	500 psf
Risk Category:	II - Normal

General Loads:

Roof Dead Loads:	3.00 psf (PEMB BLDG A)
	2.65 psf (PEMB BLDG B)
	2.50 psf (PEMB BLDG C)
Roof Collateral Loads:	5.00 psf (PEMB BLDG A)
	6.00 psf (PEMB BLDG B)
	3.00 psf (PEMB BLDG C)
Sprinkler:	0.00 psf
Rainfall Intensity:	10.00 in/hr
Tributary Live Load Reduction:	Yes

Snow Loads:

Ground Snow Load (Pg):	0.00 psf
Roof Snow Load:	0.00 psf
Importance Factor:	1.00
Exposure Factor:	1.00
Thermal Factor:	1.00 psf

Wind Loads:

Ultimate Wind Speed: (Vult)	127 mph
Nominal Wind Speed: (Vasd)	98 mph
Serviceability Wind Speed	77 mph
Exposure Factor:	C
Wind Condition:	Enclosed (PEMB BLDGS A & B)
Wind Condition:	Partially Enclosed (PEMB BLDG C)
Internal Pressure Coef. (GCpi)	+/-0.18 (PEMB BLDGS A & B)
Internal Pressure Coef. (GCpi)	+/-0.55 (PEMB BLDG C)

Component & Cladding Wind Loads: (Walls)

PEMB BLDG A:	
Corner Zone (within 8.5' of corner):	+37.8 / -41.0 psf
Interior Zone:	+37.8 / -50.4 psf
PEMB BLDG B:	
Corner Zone (within 9.6' of corner):	+35.0 / -37.9 psf
Interior Zone:	+35.0 / -46.7 psf
PEMB BLDG C:	
Corner Zone (within 4' of corner):	+47.0 / -49.9 psf
Interior Zone:	+47.0 / -58.9 psf

These values are the maximum values required based on a 10 sq ft area.
Components with larger areas may have lower wind loads.
All component & cladding loads are ultimate level.

Seismic

Risk Category:	II - Normal	
Seismic Importance Factor: (Ie)	1.00	
Seismic Design Category:	B	
Soil Site Class:	D	
Spectral Response Acceleration: (Ss)	0.0884	
Spectral Response Acceleration: (S1)	0.0565	
Design Spectral Response (Sds):	0.0943	
Design Spectral Response (Sd1):	0.0904	
Framing Direction:	Lateral	Longitudinal
Structural System:		
Structural Steel Systems Not Specifically Detailed for Seismic Resistance/		
Response Modification Factor(s) (R)	3.0	3.0
Deflection Amplification Factor(s)	3.0	3.0
Seismic Response Coefficient(s) (Cs)	0.0314	0.0314
Design Base Shear (V): (PEMB BLDG A)	13.54 Kips	5.93 Kips
(PEMB BLDG B)	7.09 Kips	7.24 Kips
(PEMB BLDG C)	0.94 Kips	0.89 Kips
Analysis Procedure:	Equivalent Lateral Force	

DEFLECTION CRITERIA:

DEFLECTION LIMITS: L/180 @ Exterior Walls
L/180 Total Load (roof)
(2 1/2" Max. Total Deflection at PEMB Building 'B')

2.00 GENERAL DESIGN NOTES

2.01 This project has been designed per International Building Code 2021.

2.02 References to various standards, tests, and codes (ASTM, AISC, UL, etc.) shall be taken to mean the latest adopted standard or edition as of the date on the drawings.

2.03 All materials and completed installations shall comply with requirements of all applicable building codes, local ordinances, OSHA and cited standards and tests.

2.04 Should any conflicts be discovered between any of the construction documents (drawings, specifications, general conditions, etc.) the contractor shall advise the architect/engineer of such conflict so that the architect/engineer may resolve the conflict. The construction documents shall be complementary, and what is shown or can be reasonably implied on any of the documents, shall be assumed to be applicable to them all. In the event of a conflict, the highest cost or maximum quantity shall be assumed to have been used by the contractor in determining the original cost of the work.

2.05 The contractor shall have sole responsibility for determining the means, methods, sequences, and safety procedures used in performing the work. The architect/engineer does not have assembly requirements.

2.06 Contents in these documents show the intended application of building structural components. Contractors are to refer to the architectural contract documents for additional construction assembly requirements.

2.07 Dimensions shown herein are for reference only. Actual locations and exact member length requirements must be determined from the architectural drawings, and must be verified prior to erection by the contractor. Drawings are not to be scaled.

3.00 FOUNDATION

3.01 All footings shall be established on properly undisturbed soil.

3.02 All foundation bearing and fill materials shall be inspected & approved by the building inspector and owners special inspector prior to placing concrete, as required by the code.

3.03 The pavement base course should be compacted to 100% of the materials maximum Modified Proctor dry density (ASTM D 1557) and the upper 12 inches of the floor slab subgrade should be compacted to 98% of the materials maximum Modified Proctor dry density (ASTM D 1557). Other structural areas and the upper 12 inches of the pavement subgrade should be compacted to 95% of the materials maximum Modified Proctor dry density (ASTM D 1557)

3.04 Should any conditions be encountered that are unusual or do not give assumed bearing capacities, the owner shall be notified and work shall cease. Work shall not resume until the owner's engineer evaluates the excavation and gives written notice to resume foundation work.

3.05 Refer to Geotechnical Engineering Report as prepared by Terracon, dated October 18, 2024 for information to sub surface soil conditions and site preparation requirements. Advise engineer (and archt) of soil conditions not representative to those described in this soil report.

3.06 Centerline of columns, shear walls, pile caps and grade beams to be coincident with piles, or footings unless otherwise noted on plan.

3.07 Coordinate all dimensions with the architectural drawings. Report any discrepancies in writing to engineer and architect prior to installation of pile, foundation excavation and fabrication of reinforcement.

3.08 Contractor shall submit, for review by engineer, shop drawings for all reinforcement.

3.09 Soil bearing capacity shall be 2000 psf at individual footings/pads and shall be 2000 psf at strip footings per the Terracon GeoReport noted above. Soils to bear a minimum of 3'-0" (36") below finished grade.

4.00 CONCRETE

4.01 All materials are designed and must be furnished to the following requirements:
f'c footings, walls, pads, and piers: 4000 psi @ 28 days
f'c slabs on grade: 4000psi @ 28 days
fy reinforcing steel: 60.0 ksi

4.02 All typical concrete details and construction shall be per ACI standards unless noted otherwise. Refer to the project specifications for allowable additives/ admixtures and additional standards.

4.03 All slabs on grade shall have #4 bars at 12" o.c. each way unless noted otherwise. Provide additional reinforcing where shown on drawings.

4.04 All reinforcement bar laps and corner bars to be 36 bar diameter minimum.

4.05 No chlorides shall be allowed in the concrete mix. All concrete exposed to weather to be air entrained.

4.06 In slabs on grade, provide saw cut construction joints between columns as shown, but not to exceed 15' o.c. or 36 times the slab thickness o.c. in each direction.

4.07 Construction joints shall be provided as shown on the drawings & details. No joint shall be added or omitted w/o engineer approval.

4.08 Provide adequate bolsters, H-chairs, support bars, etc to maintain specified clearances for the entire length of all reinforcing bars. Provide continuous #4 spacer bars in walls & slabs to support dowels. Provide plastic tipped H-chairs for slab reinforcing, concrete. Blocks are not permitted.

4.09 All concrete elements in wash bay shall contain "KRYSTOL INTERNAL MEMBRANE" waterproofing admixture by KRYTON INTERNATIONAL, INC.

5.00 MASONRY

5.01 All masonry construction shall conform to International Building Code 2021 including standards for materials and workmanship, and inspected construction.

5.02 All concrete masonry unit construction materials shall meet or exceed the following: (refer to the project specs for additional standards and requirements)

Typical units:	2-cell Normal weight, ASTM C90, typ.
Mortar:	Type M, N, or S
Unit compressive strength:	1500 to 2500 psi
Masonry prism strength, f'm:	1500psi
Grout 28 day strength:	3000 psi
Rebar strength:	60 ksi

5.03 All construction methods and details shall conform to the NCMA standards unless specifically noted otherwise. All laps w/ reinforcement to be 36 bar diameters minimum. Development length where core ties into structure below must be 36 bar diameters min. into 8" reinforced CMU, at the same location & spacing of vertical CMU reinforcement.

5.04 9 ga. truss or ladder ties @ 24" O.C. vertical are required for all CMU conditions as a minimum.

5.05 Special inspections of all masonry construction are required and shall conform to ACI 530 and Chapter 17 of the International Building Code 2021.

6.00 STEEL

6.01 Materials:

Fy typical sections:	50 ksi at beams and columns, 36 ksi at other shapes
Bolt types (typical):	A325
Welds:	E60 or 70XX typ.

6.02 Design, Detailing, and construction shall be in accordance with the specification for structural steel buildings (AISC 360-16), the code of standard practice for steel buildings and bridges (AISC 303-16), and the steel construction manual (fifteenth) edition.

6.03 Typical details indicate general criteria for the design and detailing of connections. They are not intended to convey complete information concerning size and quantity of connectors, plates, angles, welds and similar items that are developed through the design of an individual connection for a specific set of loads and combinations. Details that convey specific component information establish minimum requirements and are not intended to convey a complete design unless noted.

6.04 Welder Requirements: Technique for welding and qualification of welding personnel shall be in accordance with the specifications listed in IBC sections 2205, 2206, 2207, 2208, 2210, and 2211 as applicable. All welding is to be completed by a licensed structural welder issued by a governing authority in which state the project resides.

6.05 See architectural drawings for structural steel not noted in the structural drawings.

7.00 EARTHWORK

7.01 Slabs-on-grade shall bear on undisturbed soil or compacted fill conforming to the "site preparation" section of the geotech report by Terracon GeoReport noted in 3.00 Foundation notes.

7.02 Fill and/or backfill shall be compacted to the following minimum percentages of maximum density at optimum moisture content, in accordance with ASTM D-1557:

Fill under grade beams (when permitted)	98%
Fill under slabs-on-grade	95%

7.03 Provide all sheeting, shoring, bracing, and de-watering necessary to complete the work.

7.04 Where backfill occurs on both sids of a foundation wall, place fill simultaneously on both sides of the wall such that the difference in fill levels on opposite sides of the wall does not exceed 1'-6".

7.05 No footings or slabs shall be placed on or against sub-grade containing water, frost, or ice. The contractor shall provide all necessary measures to prevent any frost or ice from penetrating any footing or slab sub-grade before and after placing of concrete until the full building enclosure is completed and heated.

8.00 MISCELLANEOUS DESIGN NOTES

8.01 Pre-engineered system design is anticipated and professionally engineered submittals are required for the superstructure. Complete finalized and sealed engineering documents (calculations) and shop drawings of these assemblies are required to form a total structural design of this building project.

8.02 Refer to separate contract structural drawings (not by raSmith) for the design and construction requirements of all paving, landscaping, drainage, retaining wall, or other work not directly part of the structural design of this project.

9.00 TESTING AND INSPECTIONS (IBC 2021)

9.01 The testing agency shall be retained by the owner. The contractor is to coordinate all testing schedules with the testing agency and provide safe, clear access to the testing areas.

9.02 The testing agency shall be the "Special Inspector" referred to in Chapter 17 of the International Building Code 2021.

9.03 Refer to Chapter 17 of the International Building Code 2021 for definition of terms.

9.04 The testing agency shall submit to the architect weekly reports of the test and inspections conducted during the week. The reports shall state if the tests and inspections met the project requirements and, if not, what follow up tests or inspections will be made.

9.05 At the end of the project, the testing agency shall submit a summary report of all tests and inspections made to the architect and one copy of all tests and inspections made to the local building official. The summary report shall state that the tests and inspections met the project requirements. Any test or inspection that failed to meet project requirements shall be noted. Submit copies of correspondence showing acceptance or rejection of the material or workmanship that failed tests or inspections.

9.06 The structural engineer shall be notified of any item not to be in compliance with the design intent of these documents.

9.07 In accordance with International Building Code 2021, the following materials will require special inspection to be performed by the testing agency:
A. Soils
B. Concrete
The required inspection with the frequency of testing for each material are outlined on this sheet.

10.00 FOUNDATION INSPECTION

10.01 All foundation excavations shall be observed and tested by a representative of a qualified geotechnical engineering firm. Daily reports of observations shall be prepared. All reports are to be submitted to the structural engineer for record.

10.02 The testing agency shall inspect and test all soil work in accordance with Chapter 17 of the International Building Code 2021.

11.00 REINFORCED CONCRETE INSPECTION

11.01 Provide continuous inspection of the following:
A. Anchor rods or other bolts installed in concrete prior to and during placement of concrete.
B. Sampling of fresh concrete for slump, air content and temperature at the time of making specimens for strength tests.
C. Inspection of concrete placement.

11.02 Provide periodic inspection of the following:
A. Inspection of reinforcing steel placement prior to all concrete pours.
B. Use of required design mix.
C. Maintenance of specified curing temperature and techniques.

11.03 Testing frequency:
Obtain one composite sample for each 100 cu. yd. or fraction thereof of each concrete mix placed each day. When frequency of testing will provide fewer than five compressive-strength tests for each concrete mix, testing shall be conducted from at least five randomly selected batches or from each batch if fewer than five are used. Perform the following tests:

A. Slump:
ASTM C 143; One test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mix. Perform additional tests when concrete consistency appears to change.

B. Air content:
ASTM C 231, pressure method, for normal weight concrete; One test for each composite sample, but not less than one test for each day's pour of each concrete mix.

C. Concrete temperature:
ASTM C 1064; One test hourly when air temperature is 40 degrees F and below and when 80 degrees F and above, and one test for each composite sample.

D. Compressive test specimens:
ASTM C 31, Cast and laboratory cure one set of five standard cylinder specimens for each composite sample. Cast and field cure one set of three standard cylinder specimens for each composite sample.

E. Compressive strength tests:
ASTM C 39; Test one laboratory-cured specimen at 7 days and two at 28 days. Reserve two cylinders for further testing if necessary. Test one field-cured specimen at 7 days and two at 28 days. When strength of field-cured cylinders is less than 85% of companion laboratory-cured cylinders, contractor shall evaluate operations and provide corrective procedures for protecting and curing in-place concrete.

11.04 The testing agency shall inspect and test all concrete work in accordance with these notes and Chapter 17 of the International Building Code 2021.

12.00 COLD-FORMED STEEL FRAMING

12.01 Design, fabrication, and erection of cold-formed metal framing shall be in accordance with the 2016 AISI specification for the design of cold-formed steel structural members, and the 2016 AISI standards for cold-formed steel framing.

12.02 The contractor shall be responsible for all temporary shoring and bracing required during construction for erection stability and safety.

12.03 All stud and joist members 16 gage and heavier shall be formed from steel corresponding to a type listed in the AISI specification for the design of cold-formed steel structural members, with a minimum yield strength of 50 ksi.

12.04 All 18 gage and lighter members, and all track, bridging, and accessory items shall be formed from steel meeting the criteria as listed above, with a minimum yield strength of 33 ksi unless specifically noted otherwise.

12.05 All framing products shall be formed from steel possessing a G-60 zinc coating corresponding to the minimum requirements of ASTM A653.

12.06 Structural properties used in this submittal are those published by the Steel Framing Industry Association. SFIA manufacturers members or approved equal are acceptable.

12.07 Structural properties and capabilities of steel framing components shall be in accordance with the AISI cold-formed design specifications. Minimum manufacturers properties shall be 95% of those used in this submittal, and minimum base steel thickness shall be 95% of design thickness.

12.08 All framing components shall be cut squarely for perpendicular members or as required for an angular fit against abutting members. Members shall be held positively in place until properly fastened.

12.09 All field cutting of studs must be done by sawing or shearing. Torch cutting of cold-formed members is unacceptable.

12.10 When required for bridging purposes, framing fabricator is to ensure punch-out alignment when assembling framing and field cutting studs to length. Refer to typical stud/track connection and indexing detail.

12.11 No splices in studs, joists, or other load carrying members may be made without prior engineering review and specific details for any such splice(s).

12.12 Where splicing of wall track is necessary between stud spacings, a piece of stud shall be placed in the adjoining track flanges at both sides of the wall or the tracks shall buttsed tight together and fastened to the structure either side of the joint.

MEMBER DEPTH (WEB SIZE) COMPARISON TABLE

MEMBER DEPTH	SFIA IDENTIFICATION
2 1/2"	250
3 5/8"	362
4"	400
6"	600
8"	800
10"	1000
12"	1200

PRODUCT SECTION COMPARISON TABLE

SECTION	FLANGE WIDTH	SFIA IDENTIFICATION
S-SECTIONS (STUDS)	1 3/8"	S137
	1 5/8"	S162
	2"	S200
	2 1/2"	S250
T-SECTIONS (TRACKS)	1 1/4"	T125
	2"	T200
	3"	T300
U-SECTIONS (U-CHANNEL)	3/4"	075U50
	1 1/2"	150U50
	2"	200U50
	2 1/2"	250U50

MATERIAL THICKNESS COMPARISON TABLE

MILS	GAGE	MINIMUM DELIVERED THICKNESS	DESIGN THICKNESS
33	20	0.0329"	0.0346"
43	18	0.0428"	0.0451"
54	16	0.0538"	0.0566"
68	14	0.0677"	0.0713"
97	12	0.0966"	0.1037"
118	10	0.1180"	0.1242"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12325 SOUTH MAIN
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Owner's Representative

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General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

STRUCTURAL NOTES

Seal

STATE OF LOUISIANA
SUSAN MARGARET DURHAM
39806
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S0.01

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NOTE:
OVERLAPPING & ADJACENT PIERS CAN BE FORMED TOGETHER USING ALL REINFORCING AS SPECIFIED IN SCHEDULES.
- TYPICAL THRUOUT

(1) #5 BAR REQUIRED AT COLUMN PIER BASE PLATE ANCHORS
- 8" MIN. LENGTH
- 180 DEG. HOOKS AT EACH END

REFER TO ARCHITECTURAL DRAWINGS FOR FLAG POLE BASE LOCATION

CURB OPENING

HAIRPINS REQUIRED AT EACH PERIMETER COLUMN PIER BASE PLATE ANCHORS WHERE SHOWN - SEE PLAN NOTE 7.

BUILDING A
OFFICES - RETAIL - PARTS
(PEMB BLDG B)

BLDG A
REPAIR SHOP
(PEMB BLDG A)

7" SLAB-ON-GRADE
W/ #5 BARS @ 12" O.C. EW.

5" SLAB-ON-GRADE
W/ #4 BARS @ 12" O.C.
EW. OVER VAPOR BARRIER

T/ SLAB
EL. 0'-0"

SLAB CONTROL OR CONSTRUCTION JOINTS
(TYP) - SEE 8/S201

SLAB CONTROL OR CONSTRUCTION JOINTS (TYP) - SEE 8/S201

NOTE:
NO CURB AT DOOR

6" OF OVERHEAD DOORS - TYP.

CONT. EMBEDED STEEL PLATES - TYP. AT ALL DRIVE BAYS

TYP. AT ALL DRIVE BAYS

TYP. AT OVERHEAD DOORS

HAIRPINS REQUIRED AT EACH PERIMETER COLUMN PIER BASE PLATE ANCHORS WHERE SHOWN - SEE PLAN NOTE 7.

HAIRPINS REQUIRED AT EACH OVERHEAD DOOR JAMB BASE PLATE ANCHORS AS SHOWN - SEE PLAN NOTE 8.

HAIRPINS REQUIRED AT EACH PERIMETER COLUMN PIER BASE PLATE ANCHORS WHERE SHOWN - SEE PLAN NOTE 7.

NOTE:
VERIFY CURB LENGTH WITH STOREFRONT SUPPLIER

NORTH

1 FOUNDATION PLAN - BUILDING A
1 / S101 — SCALE: 1/8" = 1'-0"

NOTES:
1. T/ FORMED FOOTINGS & PIERS EL. = 0'-0" (TYP U.N.O.)
   T/ SLAB EL. = 0'-0" (TYP. U.N.O.)
2. COORDINATE ALL DOOR AND OPENING LOCATIONS W/ ARCHITECTURAL DRAWINGS.
3. STRUCTURAL PADS ARE CENTERED ON PRE-ENGINEERED METAL BUILDING COLUMN CENTERLINES. (TYP. U.N.O.)
4. SEE S201 FOR TYPICAL STRUCTURAL PAD, FORMED FOOTING, SLAB & PIER DETAILS.
5. ALL SLABS ON GRADE TO BE SET ON VAPOR BARRIER PER DETAIL 8/S201
6. ⊕ INDICATES PIPE BOLLARD PER ARCHITECTURAL DRAWINGS
7. #5 HAIRPINS REQUIRED AT ALL BUILDING 'A' PERIMETER COLUMNS AROUND BASE PLATE ANCHORS AS SHOWN. HAIRPIN LEG LENGTH VARIES. FIELD VERIFY IN ORDER TO OBTAIN 48" MIN. CONCRETE EMBEDMENT INTO FLOOR SLAB PAST ISOLATION JOINT AT EACH LEG OF HAIRPIN.
8. #5 HAIRPINS REQUIRED AT ALL BUILDING 'A' REPAIR SHOP OVERHEAD DOOR JAMBS & BLDG 'A' SW JAMBS AS SHOWN AROUND BASE PLATE ANCHORS AS SHOWN. HAIRPIN LEG LENGTHS VARIES. FIELD VERIFY IN ORDER TO OBTAIN 48" MIN. CONCRETE EMBEDMENT INTO FLOOR SLAB PAST ISOLATION JOINT AT EACH LEG OF HAIRPIN.

NORTH

2 PARTIAL FOUNDATION PLAN - BLDG A
2 / S101 — SCALE: 1/8" = 1'-0"
NOTE: STRUCTURAL PAD / FOOTINGS NOT SHOWN FOR CLARITY

NORTH

3 PARTIAL FOUNDATION PLAN - BLDG A
3 / S101 — SCALE: 1/8" = 1'-0"
NOTE: STRUCTURAL PAD / FOOTINGS NOT SHOWN FOR CLARITY

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner
W P I
A PEARCE INDUSTRIES COMPANY
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PHONE: 407.396.6907

General Contractor

Project Location
WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title
FOUNDATION PLAN
(BUILDING 'A')

Seal
STATE OF LOUISIANA
SUSAN MARGARET DURRWACHS
Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.
S1.01

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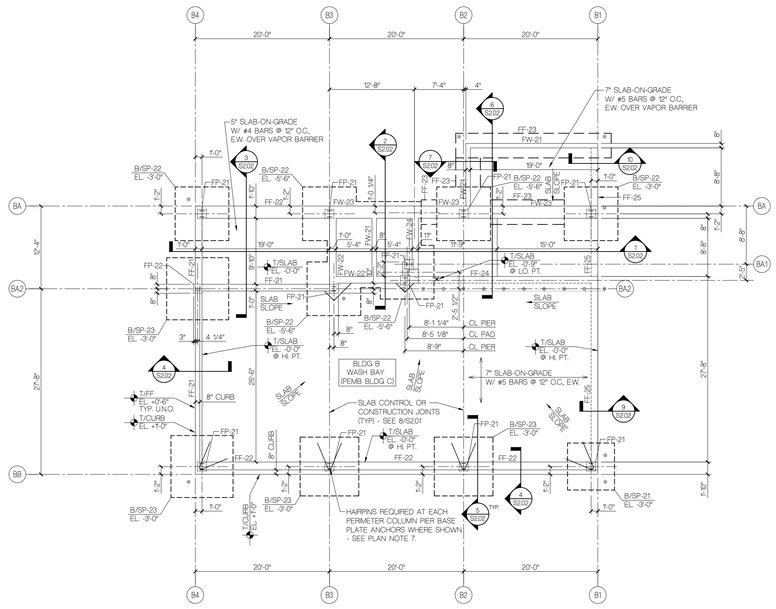
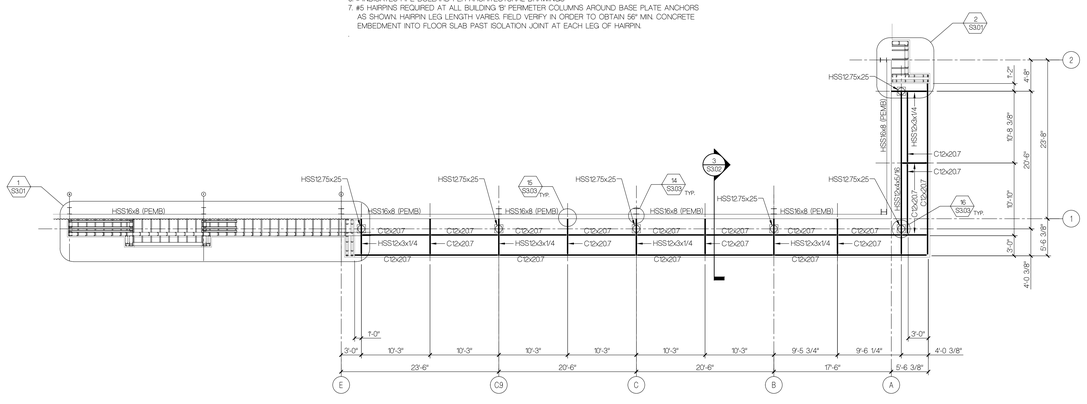


NORTH

1 FOUNDATION PLAN - BLDG B
S102 SCALE: 1/8" = 1'-0"

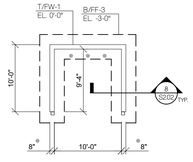
NOTES:
1. T/ FORMED FOOTINGS & PIERS EL. = 0'-6" (TYP. U.N.O.)
   T/ SLAB EL. = 0'-0" (TYP. U.N.O.)
2. COORDINATE ALL DOOR AND OPENING LOCATIONS W/ ARCHITECTURAL DRAWINGS.
3. STRUCTURAL PADS ARE CENTERED ON PRE-ENGINEERED METAL BUILDING COLUMN CENTERLINES. (TYP. U.N.O.)
4. SEE S201 FOR TYPICAL STRUCTURAL PAD, FORMED FOOTING, SLAB & PIER DETAILS.
5. ALL SLABS ON GRADE TO BE SET ON VAPOR BARRIER PER DETAIL 8/S2.01
6. ⊕ INDICATES PIPE BOLLARD PER ARCHITECTURAL DRAWINGS.
7. #5 HAIRPINS REQUIRED AT ALL BUILDING 'B' PERIMETER COLUMNS AROUND BASE PLATE ANCHORS AS SHOWN. HAIRPIN LEG LENGTH VARIES. FIELD VERIFY IN ORDER TO OBTAIN 56" MIN. CONCRETE EMBEDMENT INTO FLOOR SLAB PAST ISOLATION JOINT AT EACH LEG OF HAIRPIN.



NORTH

2 CANOPY STEEL PLAN - BLDG A
S101 SCALE: 1/8" = 1'-0"

NOTES:
1. T/ STEEL = 10'-3 1/2" (TYP. U.N.O.)
2. SEE SHEET S303 FOR TYPICAL DETAILS



3 DUMPSTER ENCLOSURE PLAN
S102 SCALE: 1/8" = 1'-0"

FORMED CONCRETE FOOTING SCHEDULE (BUILDING A) SIZE & REINFORCEMENT

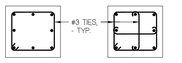
DESIGNATION	SIZE	REINFORCEMENT
FF-1	12" w x 36" d (MIN.)	(2)#5 BARS (LONGITUDINAL - TOP & BOTTOM)
FF-2	18" w x 36" d (MIN.)	(3)#5 BARS (LONGITUDINAL - TOP & BOTTOM)

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT

FORMED CONCRETE PIER SCHEDULE (BUILDING A) SIZE & REINFORCEMENT

DESIGNATION	SIZE	REINFORCEMENT	TYPE
FP-1	16" x 35"	(14) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-2	16" x 17"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-3	16" x 18"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-4	16" x 19"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-5	16" x 45"	(18) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-6	16" x 21"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-7	16" x 23"	(10) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-8	16" x 25"	(10) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-9	16" x 27"	(10) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-10	19" x 19"	(8) #8 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'B'
FP-11	21" x 21"	(8) #8 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'B'
FP-12	23" x 23"	(8) #8 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'B'
FP-13	16" x 33"	(12) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT



TYPE 'A' VERTICAL BAR CONFIGURATION

TYPE 'B' VERTICAL BAR CONFIGURATION

FORMED CONCRETE STRUCTURAL PAD SCHEDULE (BUILDING A) SIZE & REINFORCEMENT

DESIGNATION	SIZE	REINFORCEMENT
SP-1	3'-6" x 3'-6" x 12" d	(3)#5 BARS (BOTTOM / EACH WAY)
SP-2	6'-0" x 6'-0" x 12" d	(6)#5 BARS (BOTTOM / EACH WAY)
SP-3	7'-6" x 7'-6" x 12" d	(7)#5 BARS (BOTTOM / EACH WAY)
SP-4	9'-0" x 9'-0" x 12" d	(9)#5 BARS (BOTTOM / EACH WAY)
SP-5	9'-6" x 9'-6" x 12" d	(9)#5 BARS (BOTTOM / EACH WAY)
SP-6	10'-6" x 10'-6" x 12" d	(9)#5 BARS (BOTTOM / EACH WAY)
SP-7	11'-0" x 11'-0" x 12" d	(11)#5 BARS (TOP & BOTTOM / EACH WAY)
SP-8	11'-6" x 11'-6" x 12" d	(11)#5 BARS (TOP & BOTTOM / EACH WAY)
SP-9	12'-0" x 12'-0" x 12" d	(11)#5 BARS (TOP & BOTTOM / EACH WAY)
SP-10	14'-0" x 14'-0" x 12" d	(12)#5 BARS (TOP & BOTTOM / EACH WAY)
SP-11	11'-3" x 9'-0" x 12" d	(8)#5 BARS (TOP & BOTTOM / LONG WAY) (10)#5 BARS (BOTTOM / SHORT WAY)
SP-12	9'-0" x 6'-0" x 12" d	(5)#5 BARS (TOP & BOTTOM / LONG WAY) (9)#5 BARS (BOTTOM / SHORT WAY)

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT

FORMED CONCRETE FOOTING SCHEDULE (BUILDING B) SIZE & REINFORCEMENT

DESIGNATION	SIZE	REINFORCEMENT
FF-21	12" w x 42" d (MIN.)	(2)#5 BARS (LONGITUDINAL - TOP & BOTTOM)
FF-22	22" w x 36" d (MIN.)	(3)#5 BARS (LONGITUDINAL - TOP & BOTTOM)
FF-23	48" w x 12" d (MIN.)	(4)#5 BARS (LONGITUDINAL - TOP & BOTTOM) #5 BARS @ 14" O.C. (TRANSVERSE - TOP & BOTTOM)
FF-24	12" w x 27" d (MIN.)	(2)#5 BARS (LONGITUDINAL - TOP & BOTTOM)
FF-25	12" w x 24" d (MIN.)	(2)#5 BARS (LONGITUDINAL - TOP & BOTTOM)

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT

FORMED CONCRETE PIER SCHEDULE (BUILDING B) SIZE & REINFORCEMENT

DESIGNATION	SIZE	REINFORCEMENT	TYPE
FP-21	16" x 16"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'
FP-22	16" x 15"	(8) #6 VERTICAL BARS (3) #3 TIES @ 2 1/2" O.C. @ TOP, #3 @ 6" O.C. REMAINDER	'A'

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT

TYPE 'A' VERTICAL BAR CONFIGURATION

FORMED CONCRETE STRUCTURAL PAD SCHEDULE (BUILDING B) SIZE & REINFORCEMENT

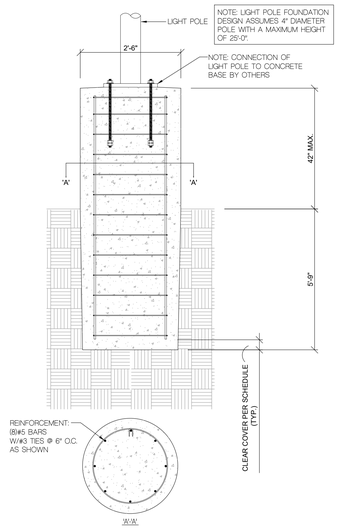
DESIGNATION	SIZE	REINFORCEMENT
SP-21	7'-0" x 7'-0" x 12" d	(6)#5 BARS (BOTTOM/EACH WAY)
SP-22	8'-3" x 8'-3" x 12" d	(7)#5 BARS (BOTTOM/EACH WAY)
SP-23	9'-3" x 9'-3" x 12" d	(8)#5 BARS (BOTTOM/EACH WAY)

NOTES:
1. SEE S201 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT

FORMED CONCRETE WALL SCHEDULE (BUILDING B) SIZE & REINFORCEMENT

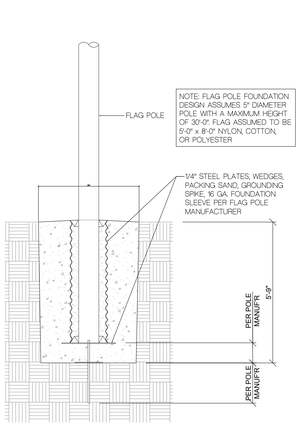
DESIGNATION	SIZE	REINFORCEMENT
FW-21	8" THK.	#5 BARS @ 8" O.C. VERTICAL @ MIDDLE #5 BARS @ 12" O.C. HORIZONTAL @ MIDDLE
FW-22	12" THK.	(2)#5 BARS @ 16" O.C. VERTICAL @ EACH FACE (2)#5 BARS @ 12" O.C. HORIZONTAL @ EACH FACE
FW-23	22" THK.	(2)#7 BARS @ 16" O.C. VERTICAL @ EACH FACE (3)#5 BARS @ 12" O.C. HORIZONTAL @ EACH FACE/MIDDLE

NOTES:
1. SEE S201 & S202 FOR FOUNDATION DETAILS AND ADDITIONAL REINFORCEMENT



4 SECTION AT LIGHT POLE BASE FOUNDATION
S102 SCALE: 3/4"=1'-0"

REFER TO ARCHITECTURAL / CIVIL DRAWINGS FOR LIGHT POLE LOCATIONS



5 SECTION AT FLAG POLE BASE FOUNDATION
S102 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
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PHONE: 407.396.6907

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

FOUNDATION PLAN (BUILDING 'B')
CANOPY FRAMING PLAN (BUILDING 'A')
SCHEDULES

Seal

STATE OF LOUISIANA
SUSAN MARGARET DUNNIVANT
LICENSE NO. 39 26474
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S1.02

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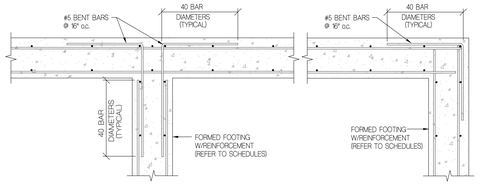
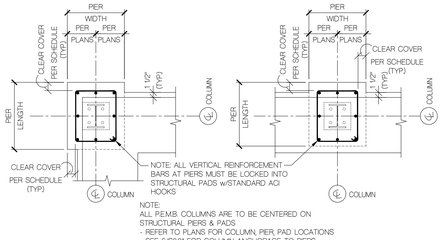
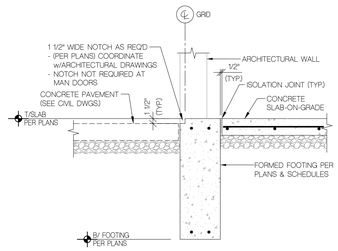


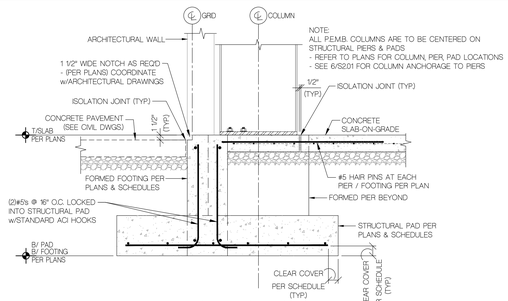
1 TYPICAL FORMED FOOTING & WALL INTERSECTIONS
S201 SCALE: NTS



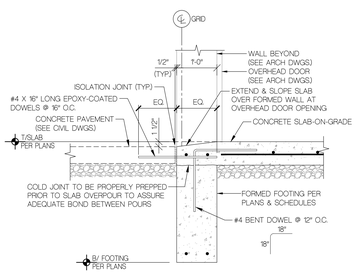
2 SINGLE COLUMN FORMED PIER PLAN DETAILS
S201 SCALE: NONE



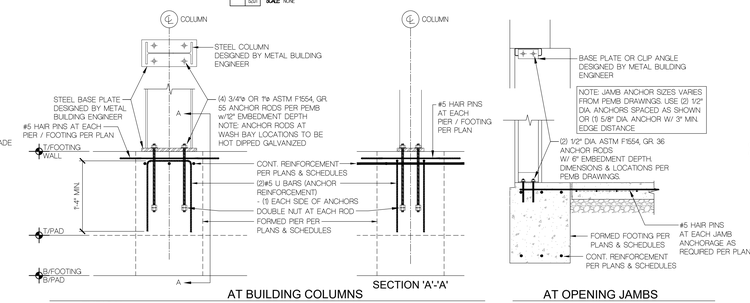
3 DETAIL AT TYPICAL FORMED FOOTING
S201 SCALE: 3/4"=1'-0"



4 DETAIL AT FORMED FOOTING TO FORMED FOOTING (STRUCTURAL PAD)
S201 SCALE: 3/4"=1'-0"



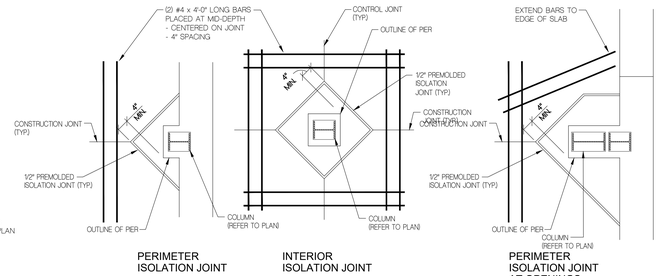
5 DETAIL AT FORMED FOOTING AT OVERHEAD DOOR AT SHOP
S201 SCALE: 3/4"=1'-0"



AT BUILDING COLUMNS

6 TYPICAL ANCHOR ROD DETAIL
S201 SCALE: 3/4" = 1'-0"

AT OPENING JAMBS

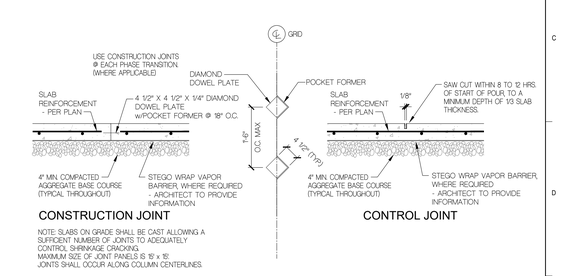


PERIMETER ISOLATION JOINT

INTERIOR ISOLATION JOINT

PERIMETER ISOLATION JOINT AT OPENINGS

7 TYPICAL SLAB ON GRADE JOINT DETAILS
S201 SCALE: NTS

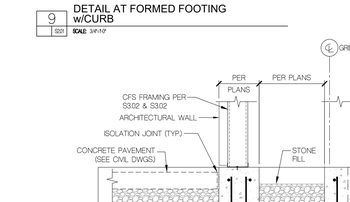


CONSTRUCTION JOINT

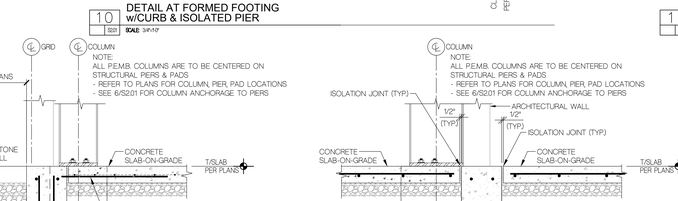
NOTE: SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. MAXIMUM SIZE OF JOINT PANELS IS 15' x 15'. JOINTS SHALL OCCUR ALONG COLUMN CENTERLINES.

CONTROL JOINT

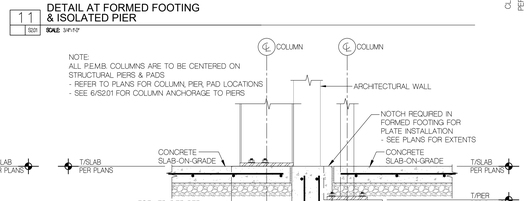
8 TYPICAL SLAB ON GRADE JOINT DETAILS
S201 SCALE: NTS



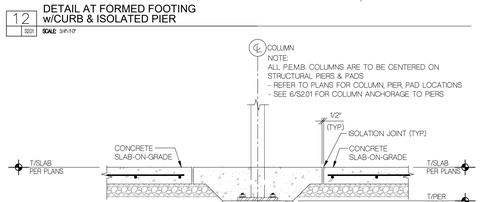
9 DETAIL AT FORMED FOOTING w/CURB
S201 SCALE: 3/4"=1'-0"



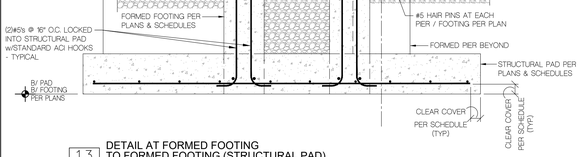
10 DETAIL AT FORMED FOOTING w/CURB & ISOLATED PIER
S201 SCALE: 3/4"=1'-0"



11 DETAIL AT FORMED FOOTING & ISOLATED PIER
S201 SCALE: 3/4"=1'-0"

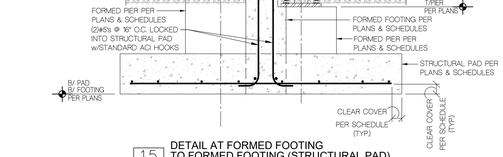


12 DETAIL AT FORMED FOOTING w/CURB & ISOLATED PIER
S201 SCALE: 3/4"=1'-0"

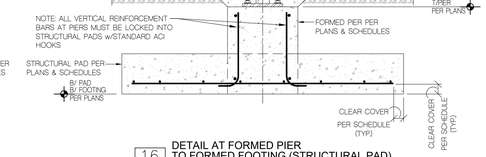


13 DETAIL AT FORMED FOOTING TO FORMED FOOTING (STRUCTURAL PAD)
S201 SCALE: 3/4"=1'-0"

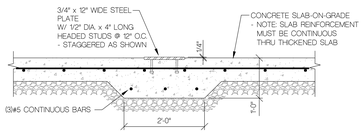
14 DETAIL AT FORMED FOOTING AT BUILDING INTERIOR
S201 SCALE: 3/4"=1'-0"



15 DETAIL AT FORMED FOOTING TO FORMED FOOTING (STRUCTURAL PAD)
S201 SCALE: 3/4"=1'-0"



16 DETAIL AT FORMED PIER TO FORMED FOOTING (STRUCTURAL PAD)
S201 SCALE: 3/4"=1'-0"



17 DETAIL AT THICKENED SLAB AT DRIVE BAYS
S201 SCALE: 3/4"=1'-0"

CLEAR COVER DISTANCE SCHEDULE FOR REINFORCING STEEL IN CONCRETE

LOCATION OF REINFORCEMENT IN CONCRETE	MIN. CLEAR DISTANCE
REINFORCEMENT IN FOOTINGS & OTHER STRUCTURAL MEMBERS IN WHICH CONCRETE IS POURED DIRECTLY AGAINST THE GROUND.....	3"
REINFORCEMENT IN FORMED CONCRETE SURFACES EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH THE GROUND (BAR SIZES GREATER THAN #5).....	2"
REINFORCEMENT IN FORMED CONCRETE SURFACES EXPOSED TO WEATHER OR IN DIRECT CONTACT WITH THE GROUND (BAR SIZES LESS THAN OR EQUAL TO #5).....	1 1/2"
REINFORCEMENT IN FORMED CONCRETE SURFACES NOT EXPOSED TO WEATHER OR NOT IN DIRECT CONTACT WITH THE GROUND.....	3/4"
NOTE: EXCEPT FOR CONCRETE SLABS, THE CONCRETE COVER PROTECTION SHALL NOT BE LESS THAN THE NOMINAL DIAMETER OF THE REINFORCING BAR	

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

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PHONE: 407.384.8007

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

FOUNDATION DETAILS

Seal

STATE OF LOUISIANA
SUSAN MARGARET HUTCHINS
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S2.01

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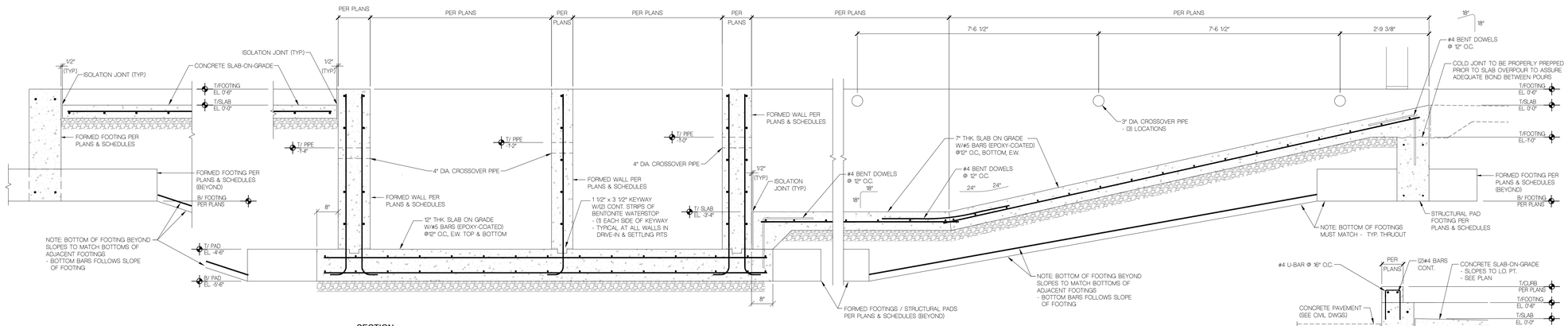
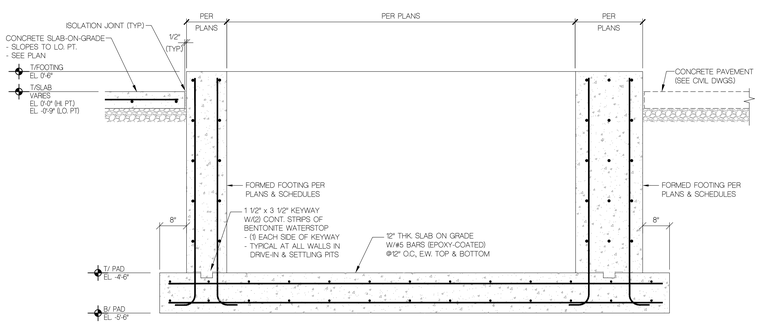
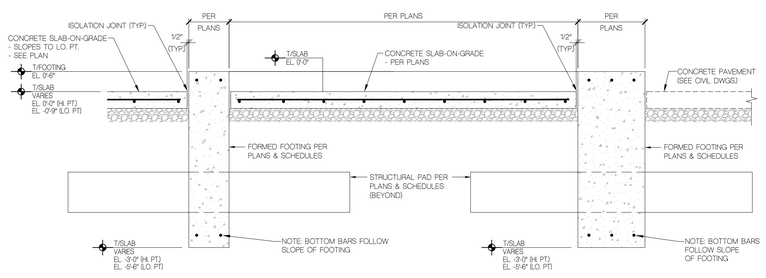


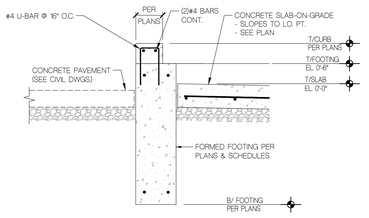
1 SECTION AT WASH BAY EQUIPMENT ROOM, SETTLING PITS & DRIVE-IN PIT
S202 SCALE: 3/4"=1'-0"



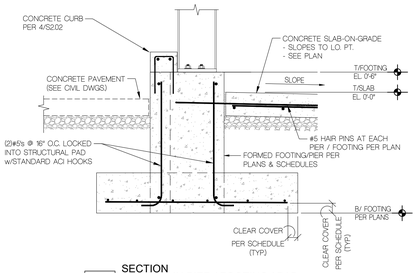
2 SECTION AT SETTLING PITS
S202 SCALE: 3/4"=1'-0"



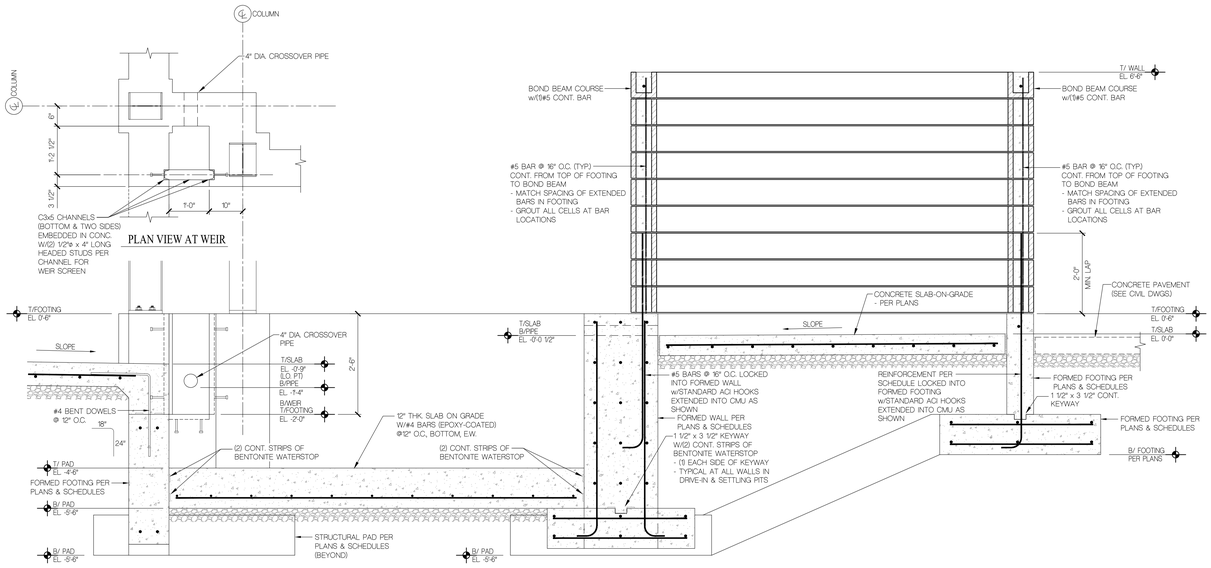
3 SECTION AT WASH BAY EQUIPMENT
S202 SCALE: 3/4"=1'-0"



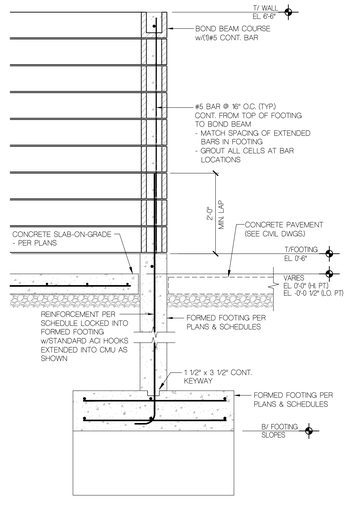
4 SECTION AT WASH BAY EQUIPMENT
S202 SCALE: 3/4"=1'-0"



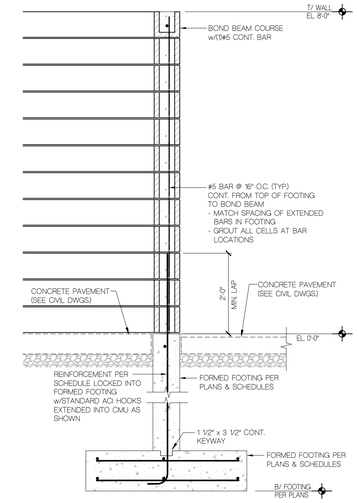
5 SECTION AT COLUMN PIER / FOOTING / PAD
S202 SCALE: 3/4"=1'-0"



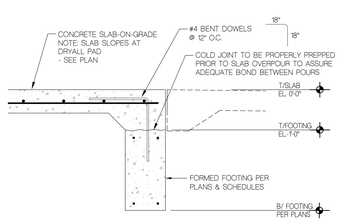
6 SECTION AT DRIVE-IN PIT & DRYING PAD
S202 SCALE: 3/4"=1'-0"



7 SECTION AT DRYING PAD
S202 SCALE: 3/4"=1'-0"



8 SECTION AT DUMPSTER ENCLOSURE
S202 SCALE: 3/4"=1'-0"



9 SECTION AT WASH BAY & DRYING PAD
S202 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

WPI
A PEARCE INDUSTRIES COMPANY
12320 SOUTH MAIN
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Owner's Representative

CPRT
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Phone: (225) 924-7306

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PHONE: 407.388.6967

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

FOUNDATION DETAILS

Seal

STATE OF LOUISIANA
SUSAN MARGARET [illegible]
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No.: 4250560

Drawing No.

S2.02

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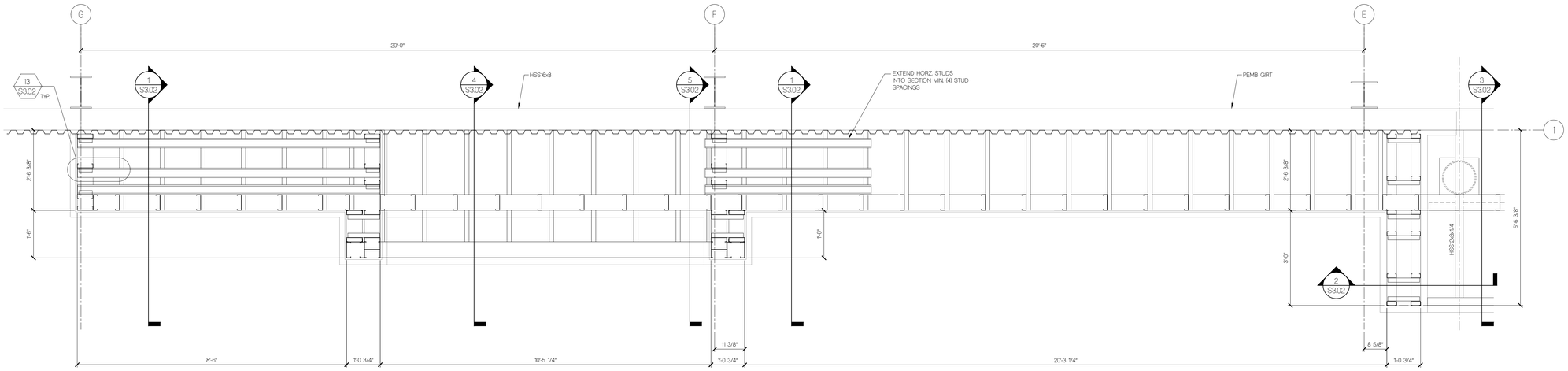
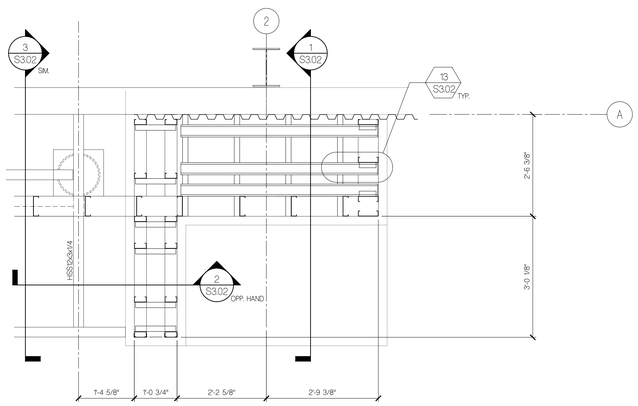


NORTH

1 PLAN
AT ACM METAL PANEL
S321 SCALE: 3/4"=1'-0"



NORTH

2 PLAN
AT ACM METAL PANEL
S321 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
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Civil Engineer

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Structural Engineer

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8375 HAZELTINE NATIONAL DRIVE
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PHONE: 407.298.6967

General Contractor

Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

CANOPY STEEL FRAMING
COLD-FORMED STEEL
FRAMING SECTIONS
& PARTIAL PLANS

Seal

STATE OF LOUISIANA
SUSAN MARGARET DURANTON
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S3.01

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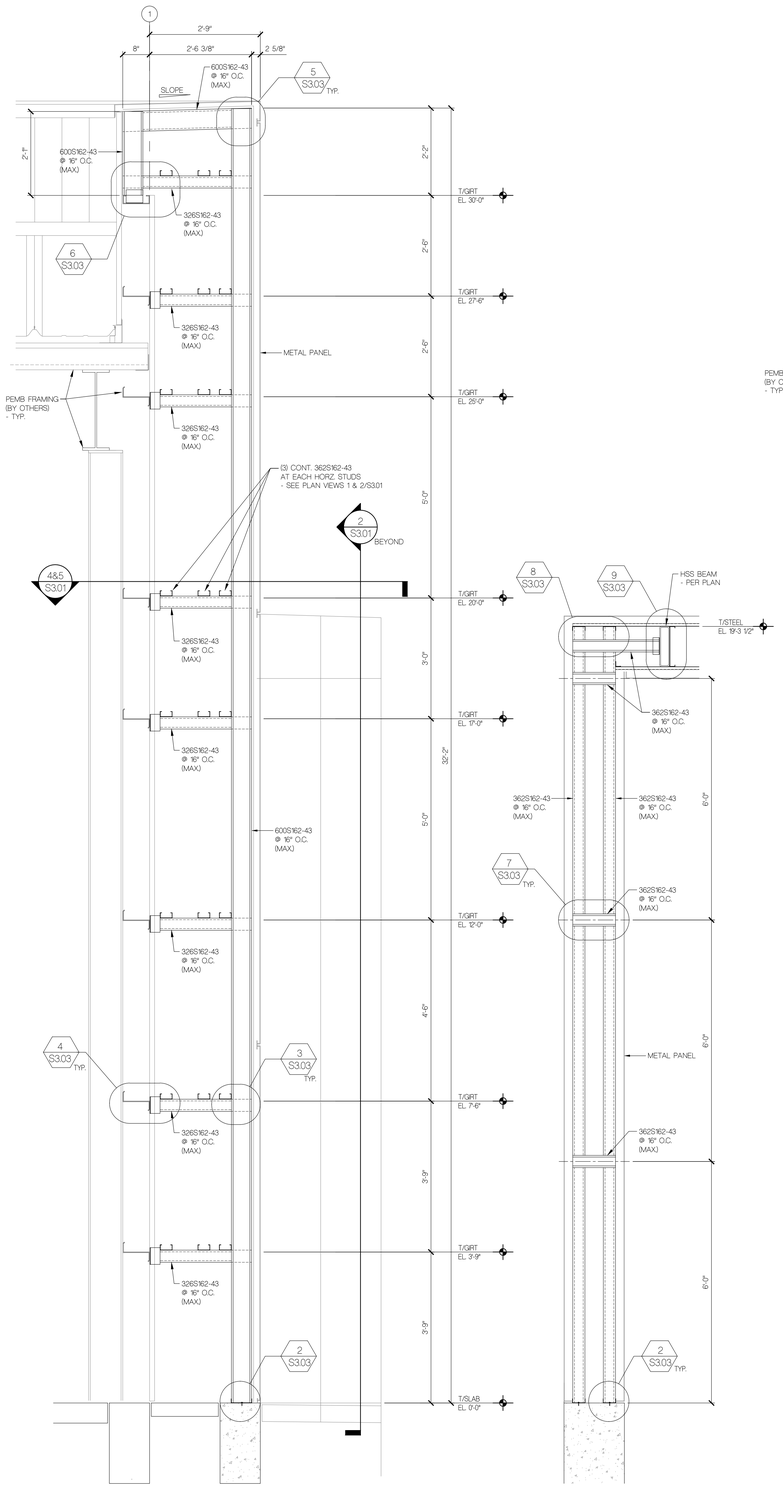
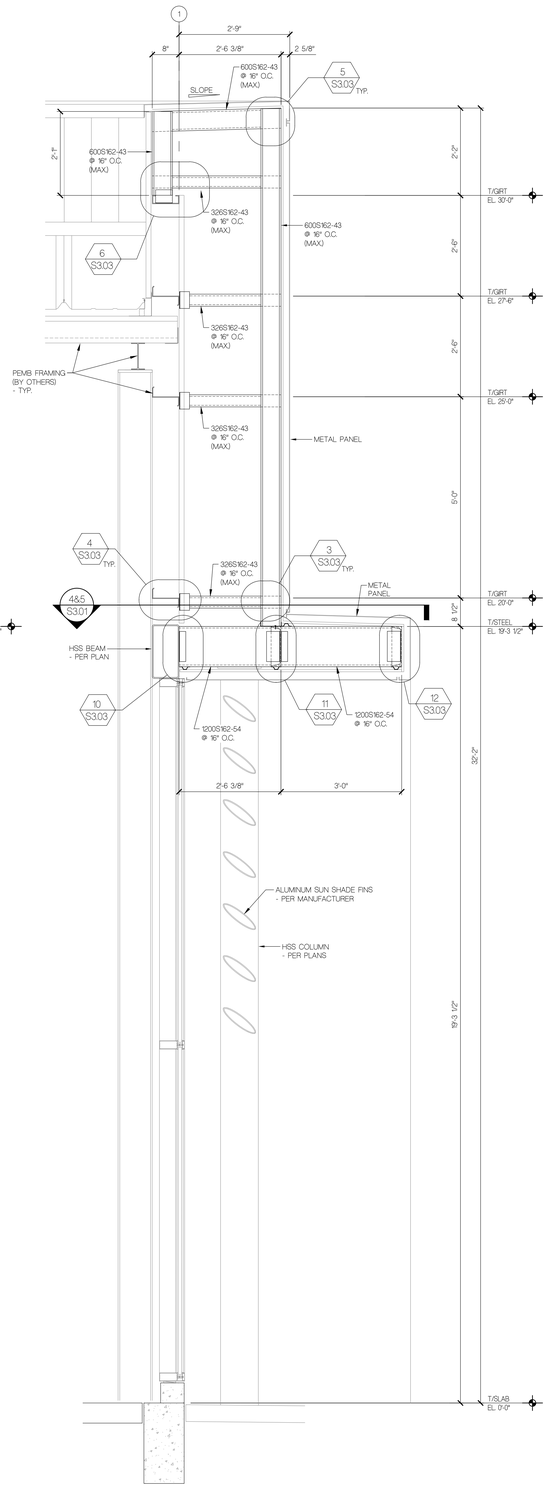
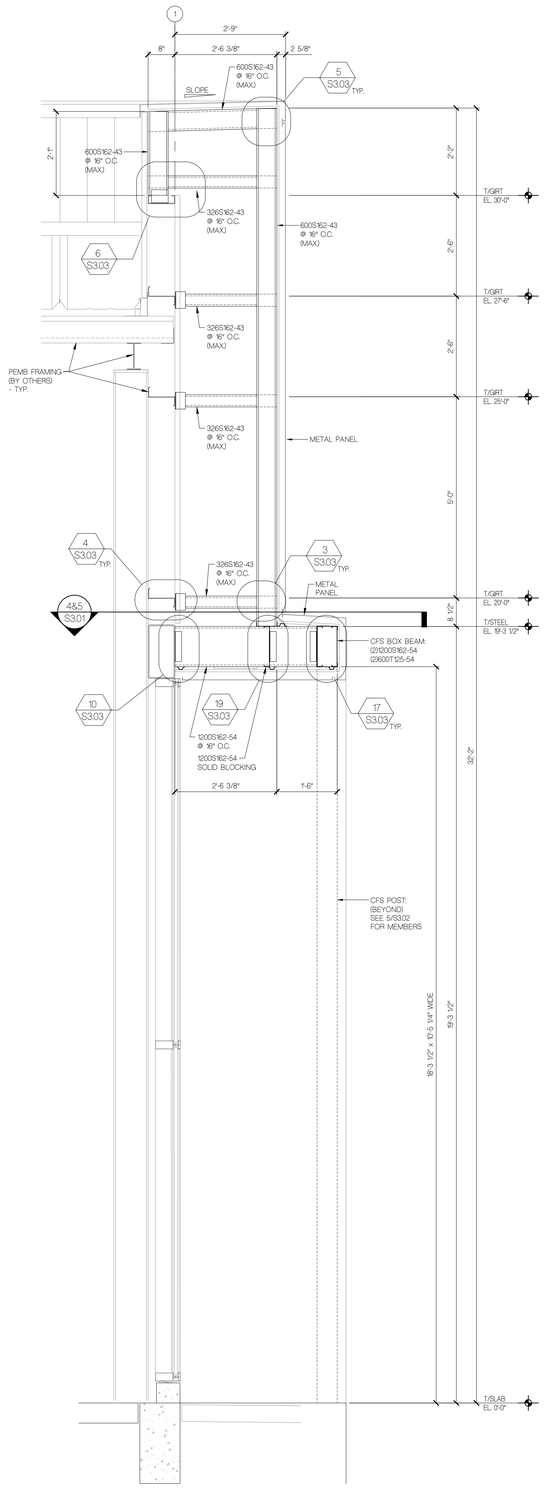


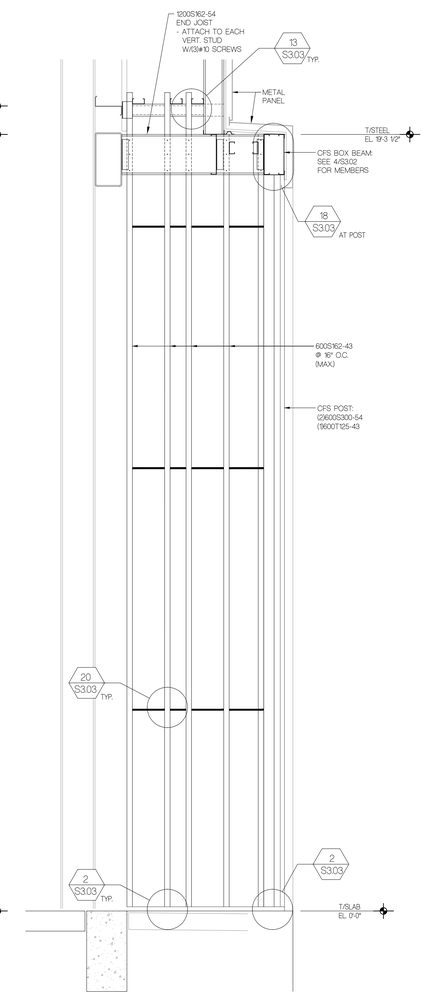
1 SECTION AT ACM METAL PANEL
S302 SCALE: 3/4"=1'-0"



3 SECTION AT ACM METAL PANEL
S302 SCALE: 3/4"=1'-0"



4 SECTION AT ACM METAL PANEL
S302 SCALE: 3/4"=1'-0"



5 SECTION AT ACM METAL PANEL
S302 SCALE: 3/4"=1'-0"

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

CANOPY STEEL FRAMING
COLD-FORMED STEEL FRAMING SECTIONS
& PARTIAL PLANS
- FOUNDATION DETAILS

Seal

STATE OF LOUISIANA
SUSAN MARGARET DYBINSKI
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S3.02

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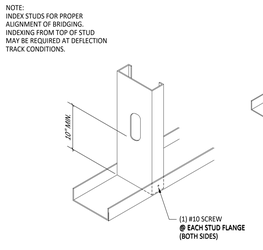

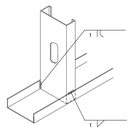

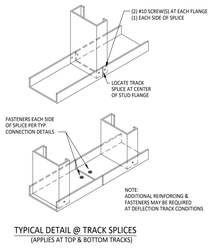

TYPICAL DETAIL @ TRACK SPLICES
(APPLIES AT TOP & BOTTOM TRACKS)

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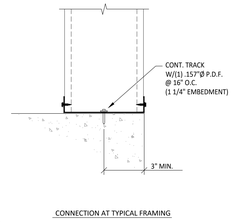
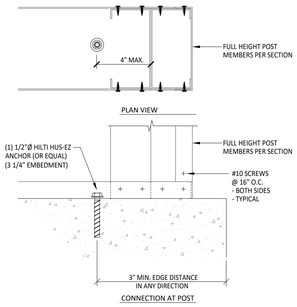


CONNECTION AT TYPICAL FRAMING



CONNECTION AT POST

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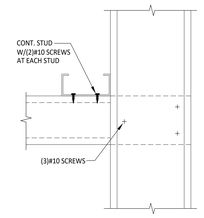

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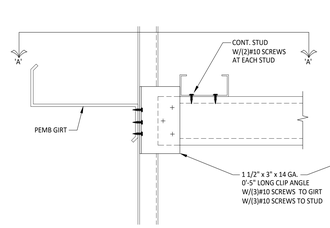
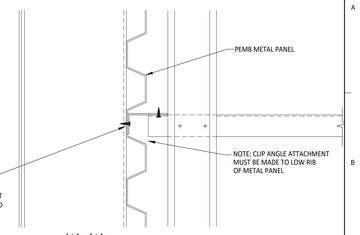
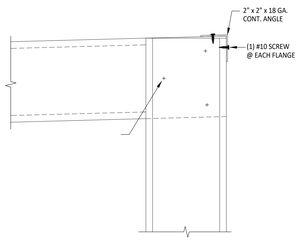




'A' - 'A'

4 S3.03 DETAIL



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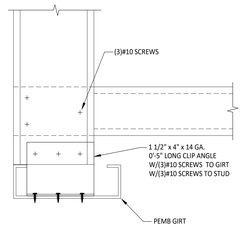

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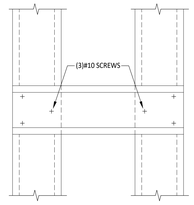

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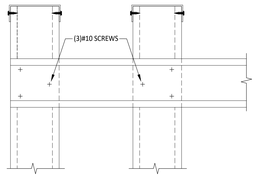

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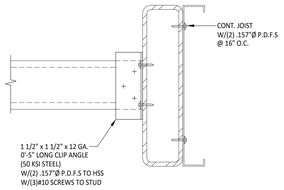

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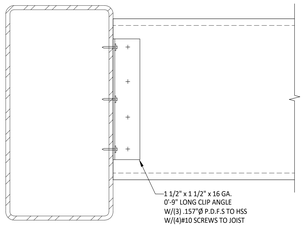

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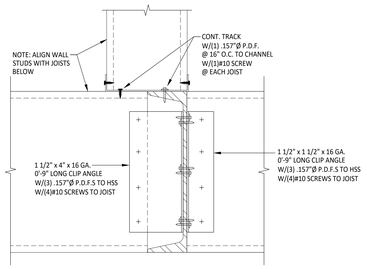

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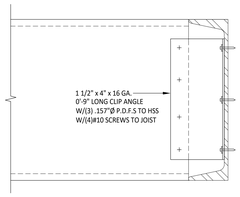

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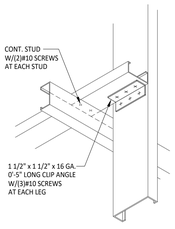

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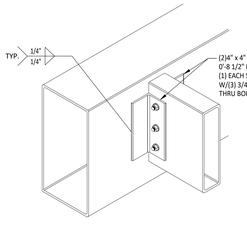

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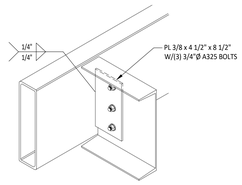

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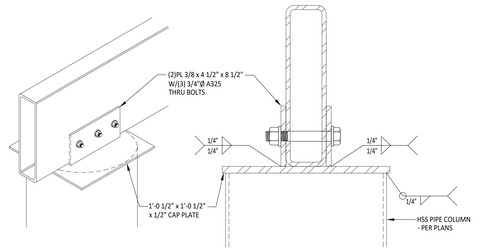

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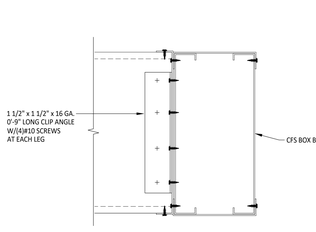

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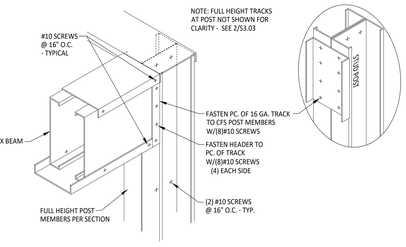

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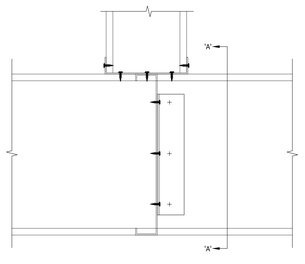

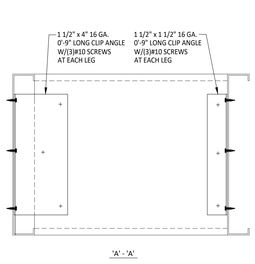

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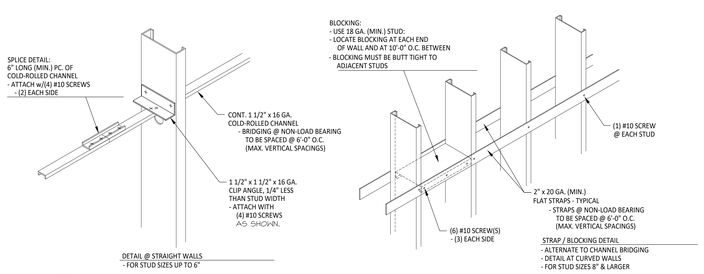

20 S3.03 TYPICAL BRIDGING / STRAP / BLOCKING CONNECTIONS (NON-LOAD BEARING)

General Notes:

No.	Date	Description
1	10/03/25	ISSUED FOR BUILDING PERMIT

Submissions & Revisions

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Project Location

WPI - BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE 70817

Drawing Title

CANOPY STEEL & COLD-FORMED STEEL FRAMING DETAILS

Seal

STATE OF LOUISIANA
SUSAN MARGARET DURRINCK
32899
REGISTERED PROFESSIONAL ENGINEER

Date: 10/3/25
Drawn By: RJL
Checked By: SMD/PMH
raSMITH Project No: 4250560

Drawing No.

S3.03

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MECHANICAL LEGEND

SUPPLY DUCT UP SECTION (RECTANGULAR).

RETURN DUCT UP SECTION (RECTANGULAR).

EXHAUST DUCT UP SECTION (RECTANGULAR).

SUPPLY DUCT DOWN SECTION (RECTANGULAR).

RETURN DUCT DOWN SECTION (RECTANGULAR).

EXHAUST DUCT DOWN SECTION (RECTANGULAR).

SUPPLY DUCT UP SECTION (ROUND).

SUPPLY DUCT DOWN SECTION (ROUND).

ELBOW WITH TURNING VANES.

FLEXIBLE DUCT CONNECTION.

EXPOSED DOUBLE WALL INSULATED DUCTWORK.

EXISTING DUCTWORK TO REMAIN.

EXISTING DUCTWORK TO BE REMOVED.

STACKED DUCTWORK.

TEE (PLAN, UP, DOWN).

ELBOW (PLAN, UP, DOWN).

CWS — CONDENSER WATER SUPPLY PIPING.

CWR — CONDENSER WATER RETURN PIPING.

CHWS — CHILLED WATER SUPPLY PIPING.

CHWR — CHILLED WATER RETURN PIPING.

HWS — HEATING WATER SUPPLY PIPING.

HWR — HEATING WATER RETURN PIPING.

CD — CONDENSATE DRAIN PIPING.

REF — REFRIGERANT PIPING.

SUPPLY DIFFUSER. DIRECTION OF AIRFLOW INDICATED WITH ARROWS AND AIR DEVICE TAG.

RETURN OR OUTDOOR AIR GRILLE.

EXHAUST GRILLE.

RD — RADIATION DAMPER INSTALLED IN AIR DEVICE.

RD — RADIATION DAMPER INSTALLED IN DUCT.

SIDEWALL TRANSFER GRILLE.

SIDEWALL SUPPLY/RETURN/EXHAUST REGISTER.

LINEAR SLOT DIFFUSER.

A/B — RECT DUCTWORK WITH TAKE-OFF, BALANCING DAMPER AND INSULATED FLEXIBLE ROUND DUCT. SAME SIZE AS DIFFUSER INLET UNLESS NOTED OTHERWISE. FIRST DIMENSION IS THAT OF SIDE SHOWN.

CONICAL FITTING WITH DAMPER ON BRANCH CONNECTION TO RECT MAIN. PROVIDE DAMPER IN LOW PRESSURE DUCTWORK ONLY.

A⌀ — ROUND DUCTWORK.

45° W L — RECTANGULAR BRANCH DUCT CONNECTION. L=1/4W, Min. 4"

MANUAL VOLUME DAMPER (VD).

OPPOSED BLADE MANUAL VOLUME DAMPER (OBMVD).

BACKDRAFT DAMPER (BDD).

SDMP — SMOKE DAMPER WITH ACCESS PANEL. SEE LIFE SAFETY PLANS FOR RATING REQUIREMENTS. DUCT SMOKE DETECTOR TO BE PLACED WITHIN 5'-0" OF DAMPER.

FD — FIRE DAMPER WITH ACCESS PANEL. SEE LIFE SAFETY PLANS FOR RATING REQUIREMENTS.

FSD — COMBINATION FIRE/SMOKE DAMPER WITH ACCESS PANEL. SEE LIFE SAFETY PLANS FOR RATING REQUIREMENTS. DUCT SMOKE DETECTOR TO BE PLACED WITHIN 5'-0" OF DAMPER.

M — MOTORIZED ACTUATOR.

SD — DUCT MOUNTED SMOKE DETECTOR PROVIDED AND WIRED BY ELEC CONTRACTOR AND INSTALLED IN DUCT BY MECH CONTRACTOR. REFER TO SPECIFICATIONS FOR CONTROL REQUIREMENTS.

A-100 — AIR DEVICE TAG. MARK-CFM

OPENING IN WALL ABOVE CEILING.

AHD 3 — EQUIPMENT TYPE, MARK — EQUIPMENT TAG.

UC — 1" DOOR UNDER CUT. ARROW INDICATES DIRECTION OF FLOW.

A/B — IDENTIFICATION TARGET. A = DETAIL NUMBER. B = SHEET NUMBER ON WHICH DETAIL IS LOCATED.

CEILING MOUNTED EXHAUST FAN.

SIDEWALL MOUNTED EXHAUST FAN.

SIDEWALL FRESH AIR INTAKE LOUVER OR EXHAUST LOUVER.

CONDENSING UNIT OR HEAT PUMP.

CONDENSING UNIT OR HEAT PUMP (SIDE DISCHARGE).

S — WALL MOUNTED DDC TEMPERATURE SENSOR MOUNT 4'-0" ABOVE FINISHED FLOOR.

T — WALL MOUNTED THERMOSTAT MOUNT 4'-0" ABOVE FINISHED FLOOR.

CO — WALL MOUNTED CARBON MONOXIDE SENSOR MOUNT 4'-0" ABOVE FINISHED FLOOR.

CO2 — WALL MOUNTED CARBON DIOXIDE SENSOR MOUNT 4'-0" ABOVE FINISHED FLOOR.

H — WALL MOUNTED DDC HUMIDITY SENSOR MOUNT 4'-0" ABOVE FINISHED FLOOR.

DP — WALL MOUNTED DIFFERENTIAL PRESSURE SENSOR. MOUNT 4'-0" ABOVE FINISHED FLOOR.

N2 — WALL MOUNTED NITROGEN SENSOR. MOUNT 1'-0" BELOW CEILING.

X — REFERENCE NOTES.

INDICATES POINT OF CONNECTION BETWEEN NEW AND EXISTING.

POINT OF DISCONNECT.

ABBREVIATIONS

ABV	-	ABOVE
AC	-	AIR CONDITIONER
ACT	-	ACOUSTIC CEILING TILE
ADJ	-	ADJUSTABLE
AFD	-	ADJUSTABLE FREQUENCY DRIVE
AFF	-	ABOVE FINISHED FLOOR
AFMS	-	AIRFLOW MONITORING SYSTEM
AFUE	-	ANNUAL FUEL UTILIZATION EFFICIENCY
AHU	-	AIR HANDLING UNIT
BAS	-	BUILDING AUTOMATION SYSTEM
BDD	-	BACKDRAFT DAMPER
BI	-	BACKWARD INCLINE
BLDG	-	BUILDING
BHP	-	BRAKE HORSEPOWER
BOS	-	BOTTOM OF STRUCTURE
BTUH	-	BRITISH THERMAL UNIT PER HOUR
CD	-	CONDENSATE DRAIN
CFM	-	CUBIC FEET PER MINUTE
CH	-	CHILLER
CHW	-	CHILLED WATER
CHWP	-	CHILLED WATER PUMP
CHWR	-	CHILLED WATER RETURN
CHWS	-	CHILLED WATER SUPPLY
CLG	-	CEILING
COND	-	CONDENSATE
CONT	-	CONTINUOUS
CO	-	CARBON MONOXIDE
CO2	-	CARBON DIOXIDE
COP2	-	COEFFICIENT OF PERFORMANCE 2
CT	-	COOLING TOWER
CU	-	CONDENSING UNIT
CU-FT	-	CUBIC FEET
CW	-	CONDENSER WATER
CWP	-	CONDENSER WATER PUMP
CWR	-	CONDENSER WATER RETURN
CWS	-	CONDENSER WATER SUPPLY
DB	-	DRY BULB
DDC	-	DIRECT DIGITAL CONTROL
DN	-	DOWN
DP	-	DEW POINT
DWGS	-	DRAWINGS
DX	-	DIRECT EXPANSION
EF	-	EXHAUST FAN
EFF	-	EFFICIENCY
EXH	-	EXHAUST
EA	-	EACH
EAT	-	ENTERING AIR TEMPERATURE
ECM	-	ELECTRONICALLY COMMUTATED MOTOR
EER2	-	ENERGY EFFICIENCY RATIO 2
ELEC	-	ELECTRICAL
ENT	-	ENTERING
ESP	-	EXTERNAL STATIC PRESSURE
ERV	-	ENERGY RECOVERY VENTILATOR
ETR	-	EXISTING TO REMAIN
EWT	-	ENTERING WATER TEMPERATURE
FC	-	FORWARD CURVED
FCU	-	FAN COIL UNIT
FD	-	FIRE DAMPER
FLA	-	FULL LOAD AMPS
FLEX	-	FLEXIBLE CONNECTOR OR DUCT
FPB	-	FAN POWERED BOX
FPM	-	FEET PER MINUTE
FSD or FS	-	COMBINATION FIRE AND SMOKE DAMPER
FT-HD	-	FEET OF HEAD
°F	-	DEGREES FAHRENHEIT
GA	-	GAUGE
GAL	-	GALLON
GALV	-	GALVANIZED
GPM	-	GALLONS PER MINUTE
HGR	-	HOT GAS REHEAT
HP	-	HORSEPOWER / HEAT PUMP
HSPF2	-	HEATING SEASONAL PERFORMANCE FACTOR 2
HW	-	HOT WATER
HWR	-	HOT WATER RETURN
HWS	-	HOT WATER SUPPLY
HVAC	-	HEATING VENTILATION AND AIR CONDITIONING
HV	-	HEATING AND VENTILATING
HX	-	HEAT EXCHANGER
IEER2	-	INTEGRATED ENERGY EFFICIENCY RATIO 2
IN-WG	-	INCHES WATER GAUGE
IN-WC	-	INCHES WATER COLUMN

ABBREVIATIONS

KW	-	KILOWATTS
LAT	-	LEAVING AIR TEMPERATURE
LBS	-	POUNDS
LD	-	LINEAR DIFFUSER
LWT	-	LEAVING WATER TEMPERATURE
MAT	-	MIXED AIR TEMPERATURE
MAX	-	MAXIMUM
MBH	-	1000 X BTUH
MCA	-	MINIMUM CIRCUIT AMPACITY
MECH	-	MECHANICAL
MIN	-	MINIMUM
MOCP	-	MAXIMUM OVER CURRENT PROTECTION
MVD	-	MOTORIZED VOLUME DAMPER
MZ	-	MULTI-ZONE
NC	-	NOISE CRITERIA
NEC	-	NATIONAL ELECTRICAL CODE
N.I.C.	-	NOT IN CONTRACT
N.F.C.	-	NOT FOR CONSTRUCTION
NFPA	-	NATIONAL FIRE PROTECTION ASSOCIATION
NO2	-	NITROGEN DIOXIDE
N.T.S.	-	NOT TO SCALE
OA	-	OUTSIDE AIR
OBD	-	OPPOSED BLADE DAMPER
OBMVD	-	OPPOSED BLADE MANUAL VOLUME DAMPER
PROP	-	PROPELLER
PD	-	PRESSURE DROP
PLUM	-	PLUMBING
PSIA	-	POUNDS PER SQUARE INCH ABSOLUTE
PSIG	-	POUNDS PER SQUARE INCH GAUGE
QTY	-	QUANTITY
RA	-	RETURN AIR
RCP	-	REFLECTED CEILING PLAN
RD	-	RADIATION DAMPER
RECT	-	RECTANGULAR
REQ'D	-	REQUIRED
RH	-	RELATIVE HUMIDITY
RL	-	REFRIGERANT LIQUID
RLA	-	RUNNING LOAD AMPS
RLS	-	REFRIGERANT LINE SET
RPM	-	REVOLUTIONS PER MINUTE
RS	-	REFRIGERANT SUCTION
RTU	-	ROOFTOP UNIT
SA	-	SUPPLY AIR
SEER2	-	SEASONAL ENERGY EFFICIENCY RATIO 2
SF	-	SUPPLY FAN
SD	-	SMOKE DETECTOR
SDMP	-	SMOKE DAMPER
SQ-FT	-	SQUARE FOOT
SQ-IN	-	SQUARE INCH
SZ	-	SINGLE ZONE
TEMP	-	TEMPERATURE
TG	-	TRANSFER GRILLE
TSTAT	-	THERMOSTAT
TSP	-	TOTAL STATIC PRESSURE
TYP	-	TYPICAL
UC	-	UNDERCUT (DOOR)
UP	-	UPWARD
UV	-	ULTRAVIOLET LIGHT
VAV	-	VARIABLE AIR VOLUME
VD	-	MANUAL VOLUME DAMPER
VFD	-	VARIABLE FREQUENCY DRIVE
VFDC	-	VARIABLE FREQUENCY DRIVE CONTROLLER
V/PH	-	VOLTS AND PHASE
VRF	-	VARIABLE REFRIGERANT FLOW
VRV	-	VARIABLE REFRIGERANT VOLUME
VVT	-	VARIABLE VOLUME AND TEMPERATURE
W	-	WATTS
W/	-	WITH
W/O	-	WITHOUT
WB	-	WET BULB
WMS	-	WIRE MESH SCREEN
WSHP	-	WATER SOURCE HEAT PUMP
VFD	-	VARIABLE FREQUENCY DRIVE
ZD	-	ZONE DAMPER
IBC	-	INTERNATIONAL BUILDING CODE
IMC	-	INTERNATIONAL MECHANICAL CODE
IPC	-	INTERNATIONAL PLUMBING CODE
IECC	-	INTERNATIONAL ENERGY CONSERVATION CODE

DUCTWORK SCHEDULE/ COMMERCIAL

SERVICE TYPE	LOCATION	MATERIAL	INSULATION R-VALUE	NOTES
SUPPLY	PLENUM	SHEET METAL	R-4.2	
	CONDITIONED SPACE	SHEET METAL	R-4.2	OTHER OPTIONS INCLUDE INTERNALLY LINED OR DOUBLE WALL.
RETURN	PLENUM	SHEET METAL	R-4.2	
	CONDITIONED SPACE	SHEET METAL	UNINSULATED	
EXHAUST AIR	ALL LOCATIONS	SHEET METAL	UNINSULATED	
OUTSIDE AIR	INTERIOR	SHEET METAL	INSULATED WITH MINIMUM 2" FIBERGLASS	

IE - MECHANICAL SHEET LIST

Sheet Number	Sheet Name	Project Issue Date	Project Status	Current Revision	Current Revision Date	Current Revision Description	Sheet Discipline
M0.01	MECHANICAL LEGEND, NOTES & ABBREVIATION	10/03/2025	ISSUED FOR PERMIT				
M0.02	MECHANICAL SPECIFICATIONS	10/03/2025	ISSUED FOR PERMIT				
M0.03	MECHANICAL SCHEDULES	10/03/2025	ISSUED FOR PERMIT				
M2.10	BUILDING A FLOOR PLAN - MECHANICAL	10/03/2025	ISSUED FOR PERMIT				
M2.11	BUILDING B FLOOR PLANS - MECHANICAL	10/03/2025	ISSUED FOR PERMIT				
M3.10	BUILDING A ROOF PLAN - MECHANICAL	10/03/2025	ISSUED FOR PERMIT				
M6.01	MECHANICAL DETAILS	10/03/2025	ISSUED FOR PERMIT				
Grand total: 7							

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description

Submissions & Revisions

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

MECHANICAL LEGEND, NOTES & ABBREVIATION

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
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Date: 10/03/2025
Drawn By: EO
Checked By: BSH
Project No:

Drawing No.

M0.01

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MECHANICAL SPECIFICATIONS

GENERAL

THE GENERAL MECHANICAL SPECIFICATIONS APPLY TO THE WORK SPECIFIED IN THIS SECTION. PROVIDE ALL LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED FOR THE FABRICATION, INSTALLATION, AND/OR RENOVATION OF MECHANICAL SYSTEMS INCLUDING HEATING, VENTILATING, AIR CONDITIONING AND MISCELLANEOUS SYSTEMS AS INDICATED IN DESIGN DRAWINGS AND AS OUTLINED IN THESE SPECIFICATIONS.

SCOPE OF WORK:

FURNISH AND INSTALL COMPLETE AIR CONDITIONING SYSTEMS AS INDICATED ON THE DESIGN DRAWINGS AND AS OUTLINED WITHIN THESE SPECIFICATIONS. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FABRICATION AND/OR INSTALLATION OF THE SCHEDULED AIR CONDITIONING UNITS, EXHAUST FANS, AIR DISTRIBUTION AND DUCTWORK.

CLEANING, TESTING AND ADJUSTING:
THE MECHANICAL CONTRACTOR, AT HIS EXPENSE, SHALL CLEAN, REPAIR, ADJUST, CHECK, BALANCE, AND PLACE IN SERVICE THE VARIOUS SYSTEMS HEREIN SPECIFIED WITH THEIR RESPECTIVE EQUIPMENT, ACCESSORIES AND PIPING. HE SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND TOOLS REQUIRED TO PERFORM TESTS REQUIRED BY THESE SPECIFICATIONS AND BY THE GOVERNING AUTHORITIES.

NO WORK SHALL BE COVERED OR CONCEALED UNTIL PROPERLY INSPECTED AND TESTED.

TESTING:

ADJUST THE AIR CONDITIONING SYSTEMS, VENTILATING SYSTEMS, FANS, ETC., TO DELIVER NOT LESS THAN THE REQUIRED AIR QUANTITY WITH QUANTITIES IN EXCESS TO BE SUBJECT TO THE APPROVAL OF THE ENGINEER IF FOUND TO NOT HAVE OBJECTIONABLE EFFECTS SUCH AS NOISE, DRAFTS, OR MOTOR OVERLOAD.

PRIOR APPROVAL BY THE ENGINEER OF TESTING AND BALANCING CONTRACTOR IS REQUIRED. THIS CONTRACTOR SHALL PROVIDE THREE (3) COPIES OF A TEST AND BALANCE REPORT TO THE ENGINEER AT TIME OF SUBSTANTIAL COMPLETION INSPECTION. THE REPORT SHALL BE PREPARED BY A CONTRACTOR CERTIFIED BY ASSOCIATED AIR BALANCE COUNCIL OR NATIONAL ENVIRONMENTAL BALANCING BUREAU.

THE TEST AND BALANCE REPORT SHALL BE TYPEWRITTEN AND CONTAIN THE FOLLOWING DATA:

1. DATE, TIME, WEATHER, WHEN TEST TAKEN.
2. AIR CAPACITIES AT EACH UNIT INCLUDING OUTSIDE AIR. (ENTERING AND LEAVING DB/WB)
3. STATIC PRESSURE THROUGH UNITS AND UNIT COMPONENTS.
4. MOTOR OPERATING VOLTAGE AND AMPERAGE.
5. DRIVE TYPES, SIZES AND SPEED RANGE.
6. IDENTIFICATION OF ALL AIR TERMINAL DEVICES WITH DESIGN CFM AND ACTUAL CFM.

ADDITIONALLY, SYSTEMS DRAWING CLEARLY MARKED TO IDENTIFY LOCATION OF EQUIPMENT AND AIR DEVICES TESTED SHALL BE PROVIDED ALONG WITH THE WRITTEN TEST AND BALANCE REPORT.

OPERATING AND MAINTENANCE DATA INTO SUITABLE SETS OF MANAGEABLE SIZE. INCLUDE THE FOLLOWING

MAINTENANCE MANUALS

PROVIDE COMPLETE MAINTENANCE MANUALS IN PDF FORM ON ALL NEW EQUIPMENT. ORGANIZE

TYPES OF INFORMATION. THE INFORMATION WILL BE TURNED OVER TO THE OWNER AT TIME OF SUBSTANTIAL COMPLETION:

- OPERATING AND MAINTENANCE INSTRUCTIONS
- SPARE PARTS LIST
- COPIES OF WARRANTIES
- WIRING DIAGRAMS
- INSPECTION REPORTS AND APPROVALS
- SHOP DRAWINGS AND PRODUCT DATA
- TEST AND BALANCE INFORMATION

TRAINING SERVICES

THOROUGHLY INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION OF ALL EQUIPMENT FURNISHED AND LOCATION OF ALL VALVES AND CONTROL DEVICES.

TRAIN BUILDING OWNER'S PERSONNEL DURING NORMAL WORKING HOURS ON STARTUP AND SHUTDOWN PROCEDURES, TROUBLESHOOTING PROCEDURES, SERVICING AND PREVENTATIVE MAINTENANCE SCHEDULE AND PROCEDURES. REVIEW WITH THE OWNER'S PERSONNEL, THE DATA CONTAINED IN THE OPERATING AND MAINTENANCE MANUALS. SCHEDULE TRAINING WITH OWNER, PROVIDE AT LEAST 7-DAYS PRIOR NOTICE TO ARCHITECT/ENGINEER.

HANGERS AND SUPPORTS

PROVIDE ALL NECESSARY HANGER RODS, CLAMPS AND ATTACHMENTS TO PROPERLY INSTALL AND SUPPORT DUCTWORK, PIPING AND EQUIPMENT FROM THE BUILDING STRUCTURE.

PROVIDE ANY ANGLE IRON OR UNISTRUT AND SUSPENSION RODS REQUIRED TO INSTALL EQUIPMENT, PIPING AND DUCTWORK.

ALL SUPPORTS EXPOSED TO OUTDOORS SHALL BE CLEANED, PRIMED AND PAINTED TO PREVENT RUSTING. FINISH COLOR AS SELECTED BY OWNER.

THE USE OF BALING WIRE OR PERFORATED METAL STRAPPING IS NOT ACCEPTABLE FOR SUPPORTS.

WARRANTY/GUARANTEE:

THE CONTRACTOR SHALL WARRANTY/GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR.

DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OWNER AND ARCHITECT AND ENGINEER. SUCH RECONSTRUCTION AND REPAIRS SHALL INCLUDE ALL DAMAGE TO THE FINISH OR FURNISHING OF THE BUILDING RESULTING FROM THE ORIGINAL DEFECT OR REPAIRS THERETO.

SUBSTITUTIONS:

EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS "STANDARD OF QUALITY". NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. ALL EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED, FREE OF DEFECTS, AS SHOWN ON THE DRAWINGS OR INDICATED IN SPECIFICATIONS.

DEVIATIONS FROM SPECIFIED EQUIPMENT AFFECTING ELECTRICAL REQUIREMENTS SHALL BE COORDINATED BETWEEN VENDOR, MECHANICAL CONTRACTOR, AND ELECTRICAL CONTRACTOR PRIOR TO SUBMITTING BIDS. FAILURE TO DO SO WILL NOT BE CAUSE FOR CHANGE OF BID AT A LATER TIME. IN ADDITION, THE MECHANICAL CONTRACTOR SHALL BE FINANCIALLY RESPONSIBLE FOR ANY AND ALL CHANGES TO ENGINEERING PLANS REQUIRED BY AUTHORITY HAVING JURISDICTION.

APPLICABLE CODES/STANDARDS:

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL ENERGY CONSERVATION CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2021 INTERNATIONAL FIRE CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2017 NATIONAL ACCESSIBILITY GUIDELINES (ICC A117.1-17)

SHOP DRAWINGS AND SUBMITTALS:

SUBMIT SHOP DRAWINGS AND MANUFACTURER'S DATA FOR ALL NEW EQUIPMENT FOR ENGINEER'S APPROVAL PRIOR TO PURCHASE AND/OR FABRICATION. SHOP DRAWINGS FOR EQUIPMENT REQUIRING ELECTRIC POWER OR CONTROL WIRING SHALL INCLUDE COMPLETE WIRING DIAGRAMS.

HVAC CONTRACTORS SHALL SUBMIT COMPLETE DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. SHOP DRAWINGS SHALL INCLUDE COORDINATION WITH GENERAL CONTRACTOR REGARDING EXACT OPENINGS REQUIRED IN EXTERIOR WALLS. THE DUCTWORK SHOP DRAWINGS WILL ONLY BE REVIEWED FOR COMPLIANCE WITH DRAWINGS AND SPECIFICATIONS. DRAWINGS WILL NOT BE CHECKED FOR COORDINATION WITH OTHER TRADES OR BUILDINGS STRUCTURE. IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO COORDINATE AND VERIFY ROUTING AND EXACT LOCATION OF SYSTEM COMPONENTS.

SYSTEM IDENTIFICATION:

PROVIDE IDENTIFICATION LABELS ON OR NEAR EACH PIECE OF MAJOR EQUIPMENT AND EACH OPERATION DEVICE AND DISCONNECT. LABELS SHALL BE CONSTRUCTED OF ENGRAVED PLASTIC LAMINATE SIGN OR PLASTIC EQUIPMENT MARKER PERMANENTLY SECURED TO EQUIPMENT. LETTERING SHALL BE A MINIMUM OF 1/2 INCH HIGH FOR EQUIPMENT NAME AND 3/8 INCH HIGH FOR EQUIPMENT INFORMATION.

VALVES SHALL BE TAGGED USING PLASTIC LAMINATE TAGS SECURED WITH BRASS CHAINS INDICATING THE VALVE SIZE, SERVICE AND FUNCTION.

EXECUTION:

ALL LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC., INDICATED ON THE DRAWINGS IS DIAGRAMMATIC AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE TO THE PLANS SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER TRADES. CONTRACTOR IS RESPONSIBLE FOR ANY FIELD MEASUREMENTS REQUIRED TO PROVIDE AN APPROVED AND FUNCTIONAL INSTALLATION.

COORDINATE WITH OTHER TRADES AND FIELD-VERIFY EXISTING CONDITIONS FOR EXACT LOCATION AND ROUTING OF SYSTEMS. PROVIDE OFFSETS, TRANSITIONS AND ADAPTORS AS REQUIRED.

NOT ALL COMPONENTS REQUIRED FOR A COMPLETE INSTALLATION ARE SHOWN ON THESE DRAWINGS. REFER TO EQUIPMENT INSTALLATION INSTRUCTION, SCHEDULES AND APPLICABLE CODES FOR ADDITIONAL INFORMATION, INCLUDING REQUIRED CONNECTION LOCATIONS, TYPES AND SIZES.

PERFORM ALL WORK NECESSARY TO PREPARE THE STRUCTURE FOR THE INSTALLATION OF THE WORK. ALL HOLES, OPENINGS AND DAMAGED MATERIALS CREATED DURING CONSTRUCTION SHALL BE REPAIRED. ALL PENETRATIONS SHALL BE SLEEVED AND SEALED SO AS TO BE WATER AND AIR TIGHT.

PIPING:

CONDENSATE DRAINS:
CONDENSATE PIPE TO BE TYPE L COPPER OR SCHEDULE 40 PVC. ROUTE AS INDICATED ON PLANS. UNITS 3 TONS AND SMALLER MAY DRAIN TO GRADE, ELSE COORDINATE WITH PLUMBER TO PROVIDE HUB DRAIN(S) IN MECHANICAL ROOM. HVAC CONTRACTOR TO PROVIDE P-TRAP AT UNIT SIZED FOR 2" GREATER THAN UNIT STATIC PRESSURE. PROVIDE CLEANOUT AT UNIT FOR SUSPENDED HORIZONTAL AIR HANDLERS. INSULATE CONDENSATE PIPE WITH 1/2" ARMAFLEX (OR EQUAL) INSULATION RATED FOR PLENUM APPLICATION. CONDENSATE DRAIN LINE SHALL BE NOT LESS THAN THE EQUIPMENT DRAIN LINE SIZE AND IN NO CASE LESS THAN 3/4" PIPE SIZE. DRAIN LINE SHALL SLOPE A MINIMUM OF 1/8" PER FOOT TOWARDS DRAIN.

REFRIGERANT PIPING:
PIPING SHALL BE FIELD FABRICATED ASTM B280 MUELLER STREAMLINE ACR OR READING HARD DRAWN FACTORY SEALED NITROGEN CHARGED SPECIAL REFRIGERATION DUTY COPPER TUBING. FITTINGS SHALL BE MUELLER OR NIBCO WROUGHT COPPER LONG RADIUS REFRIGERATION TYPE.

WORKMANSHIP ON THESE SYSTEMS MUST BE GOOD, AND CLEANLINESS OF PIPING SYSTEMS IS MANDATORY. WORK THAT DOES NOT MEET THESE CRITERIA SHALL BE REMOVED AND REPLACED AT NO COST TO THE OWNER. THE ENGINEER SHALL DETERMINE WHETHER THE WORK MEETS THESE CRITERIA.

COVER ALL EXPOSED LIQUID LINES AND ALL SUCTION PIPING (INDOORS AND OUTDOORS), FITTINGS, VALVES, ETC., CONTINUOUS THROUGH SLEEVES, HANGERS, ETC., WITH 3/4" FRIARMAFLEX. INSTALLATION SHALL BE CONDENSATION FREE AND INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PAINT ALL INSULATION EXPOSED TO OUTDOORS WITH UV PROTECTIVE PAINT PER MANUFACTURERS RECOMMENDATIONS.

REFRIGERANT PIPING BELOW GRADE SHALL BE ROUTED THROUGH MINIMUM 4" DIAMETER PVC PIPE SLEEVES TO EACH CONDENSING UNIT. ALL UNDERGROUND REFRIGERANT PIPING SHALL BE CONTINUOUS SOFT DRAWN TUBING WITH NO UNDERGROUND JOINTS ALLOWED. REFRIGERANT PIPE SIZES SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION BASED ON LENGTH OF RUN BETWEEN CONDENSING UNITS AND AHU'S.

PIPING ROUTED ALONG BUILDING EXTERIOR WALL SHALL BE PROTECTED BY SHEET METAL HOUSING SECURELY ATTACHED TO WALL AT 8'-0" INTERVALS AND PAINTED TO MATCH BUILDING EXTERIOR.

TRAP OIL IN SUCTION LINE AT EVAPORATOR COIL. NO OTHER COIL TRAPS PERMITTED. PROVIDE SUCTION RISERS, CHECK VALVES, SOLENOID VALVES, OR OTHER DEVICES REQUIRED IN PIPING SYSTEM BY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

FURNISH ALL LABOR AND MATERIALS TO REPLACE REFRIGERANT LOST DURING THE ONE YEAR WARRANTY PERIOD.

REFRIGERANT CIRCUIT ACCESS PORTS LOCATED OUTDOORS SHALL BE FITTED WITH LOCKING-TYPE TAMPER-RESISTANT CAPS OR SHALL BE OTHERWISE SECURED TO PREVENT UNAUTHORIZED ACCESS.

PIPE HANGERS AND SUPPORTS:
PIPE HANGERS, WHERE NEEDED, SHALL BE GRINNEL #260 CLEVIS TYPE, 5'-0" ON CENTER, SECURELY ATTACHED TO BUILDING CONSTRUCTION. SPACE AT MIN. 5'-0" INTERVALS.

PIPE SUPPORT:
ATTACH LINES SECURELY ALONG PAD/FLOOR/EQUIPMENT/STRUCTURE TO PREVENT MOVEMENT. SUPPORT IN A MANNER THAT LINES DO NOT HANG FROM EVAPORATOR CONNECTIONS OR BLOCK ACCESS TO FILTERS, CONTROLS, ETC.

SUPPORT AT MIN. 8'-0" INTERVALS FOR VERTICAL PIPES, 5'-0" FOR SUSPENDED HORIZONTAL PIPING.

VIBRATION ISOLATION:

ALL BLOWER UNITS AND VIBRATING TYPE EQUIPMENT SHALL BE PROPERLY FITTED WITH MASON INDUSTRIES VIBRATION ISOLATION EQUIPMENT SIZED IN ACCORDANCE WITH EQUIPMENT WEIGHT AND DUTY.

PROVIDE FLEXIBLE CONNECTORS AT ALL SUPPLY AND RETURN CONNECTIONS TO AIR HANDLING EQUIPMENT CONSISTING OF HEAVY CANVAS OR NEOPRENE FABRIC WITH AIRTIGHT SEAMS AND CONNECTIONS TO THE EQUIPMENT.

AIR FILTERS:

FILTERS SHALL BE 1" FIBERGLASS MEDIA THROW AWAY TYPE IN A RIGID FRAME WITH A SUPPORTING MAZE ACROSS BOTH ENTERING AND LEAVING SURFACES. SUPPLY ONE COMPLETE SET OF FILTERS AFTER OWNER'S FINAL ACCEPTANCE. FARR 30/30 OR EQUAL.

DUCTWORK:

ALL DIMENSIONS ARE INSIDE NET FREE AREA.

MATERIALS: GALVANIZED STEEL (G-90) OF GAUGES CONFORMING TO THE LATEST EDITION OF SMACNA STANDARDS.

ALTERNATE PRICING: PROVIDE AN ALTERNATE PRICE TO USE MANSVILLE FR-800 (SUPERDUCT) IN LIEU OF SHEET METAL DUCT FOR LOW PRESSURE SUPPLY AND RETURN DUCTWORK. PROVIDE "R" VALUE OF THE INSULATION TO MATCH INSULATION VALUES LISTED FOR SHEET METAL DUCT. DUCTWORK SHALL BE LINED WITH ANTI-MICROBIAL INSULATION. SEAL ALL JOINTS WITH GLASS FABRIC AND MASTIC.

ADJUSTABLE SPLITTERS AND DAMPERS SHALL BE INSTALLED IN EVERY SPLIT AND BRANCH DUCT AND SHALL BE PROVIDED WITH LOCKING QUADRANTS ON EXPOSED OR IN ACCESSIBLE AREAS OF THE DUCT FOR EASE OF OPERATION. ACCESS PANELS OR YOUNG REGULATORS SHALL BE PROVIDED WHERE DAMPERS ARE INSTALLED ABOVE HARD CEILINGS OR IN SOFFITS.

ELBOWS OR CHANGES IN DUCT DIRECTION GREATER THAN 45 DEGREES SHALL BE FITTED WITH AIR TURNS CONSISTING OF CURVED AIRFOIL BLADES OR VANES WHICH WILL PERMIT THE AIR TO MAKE ABRUPT TURNS WITHOUT APPRECIABLE TURBULENCE.

FLEXIBLE DUCTWORK SHALL BE ACOUSTICAL LOW PRESSURE TYPE WITH INTERIOR LINER, METAL HELIX, FIBERGLASS INSULATION WITH AN R-VALUE OF 6.0 OR GREATER, AND COPOLYMER SEAMLESS OUTSIDE SLEEVE. THE ENTIRE FLEXIBLE DUCT ASSEMBLY SHALL BE LISTED IN ACCORDANCE WITH UL-181 CLASS 1 AIR DUCT MATERIAL. THE MAXIMUM LENGTH OF ANY FLEX DUCT SHALL BE 7'-0". FLEXIBLE DUCTWORK SHALL MEET THE INTERNATIONAL MODEL ENERGY EFFICIENCY CODE. ALL JOINTS AT CONNECTIONS TO DIFFUSERS AND DUCTWORK SHALL BE SEALED WITH GLASS FABRIC AND MASTIC.

INSTALL DUCTWORK INDICATED ON DRAWINGS, MAKING NECESSARY CHANGES IN CROSS-SECTIONS AND OFFSETS, WHETHER OR NOT SPECIFICALLY INDICATED.

INSULATION:

SHALL BE AS MANUFACTURED BY CERTAINTEED, OWENS-CORNING, MANVILLE, PITTSBURGH CORNING, ARMSTRONG, OR APPROVED EQUAL. INSULATION SUNDRIES AND ADHESIVES SHALL BE AS MANUFACTURED BY BENJAMIN FOSTER, CHILDERS, VIMASCO, OR APPROVED EQUAL. ALL INSULATION SHALL BE SUITABLE FOR INSTALLATION IN A RETURN AIR PLENUM.

INSULATE ALL SHEETMETAL DUCTWORK EXCEPT EXHAUST DUCTWORK EXTERNALLY WITH MANVILLE R SERIES MICROLITE TYPE 75 OR 100 INSULATION OR APPROVED. INSULATION TO HAVE TYPE II FSK FACING AND UL FIRE HAZARD CLASSIFICATION OF FLAME SPREAD 25/SMOKE DEVELOPED 50/FUEL CONTRIBUTED 50. INSTALL INSULATION PER SMACNA, INTERNATIONAL MODEL ENERGY EFFICIENCY CODE AND MANUFACTURER'S RECOMMENDATIONS. ALL INSULATION JOINTS SHALL BE SEALED WITH GLASS FABRIC AND MASTIC.

MINIMUM INSULATION REQUIREMENTS AS FOLLOWS: - SUPPLY AND RETURN AIR UNCONDITIONED: 2" (R-6 MIN) - OUTSIDE AIR: 2" (R-6 MIN)

PROVIDE ALL EXTERIOR INSULATION DUCTWORK OR PIPING EXPOSED TO THE OUTDOORS WITH A MINIMUM 8 MIL THICK ALUMINUM OR PVC JACKET.

CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ADEQUATE AND PROPER INSULATION AND MOISTURE-SEAL IN A MANNER THAT WILL PERMANENTLY PREVENT THE ACCUMULATION OF ANY OBJECTIONABLE MOISTURE ON THE EXTERIOR OF AIR CONDITIONING UNITS, REFRIGERANT PIPING, CONDENSATE DRAIN PIPING, AIR DUCTS OR OTHER PARTS OF THE SYSTEM. CONTRACTOR SHALL CORRECT THE CAUSE OF ANY CONDENSATION AND FULLY REPAIR, WITHOUT COST TO THE OWNER, ANY DAMAGES TO BUILDING SURFACES, FURNISHINGS OR EQUIPMENT CAUSED BY CONDENSATION FROM THIS SYSTEM, FOR THE FULL PERIOD OF GUARANTEE.

CONTROLS:

FACTORY MOUNTED CONTROL SHALL BE PROVIDED TO ACCOMPLISH THE SEQUENCE OF OPERATION. ALL INTERIOR CONTROLS SHALL BE FACTORY FURNISHED AND INSTALLED.

PROVIDE ALL 24 VOLT WIRING BETWEEN CONTROL DEVICES AS NECESSARY TO MAKE COMPLETE AND OPERATION SYSTEM. PROVIDE 110/24 VAC TRANSFORMERS AS REQUIRED. COORDINATE WITH DIVISION 26 FOR 120V POWER ROUGH-IN, CONTROL, POWER AND WIRING. 24 VOLT WIRING SHALL BE PLENUM RATED.

EQUIPMENT:

INSTALL DUCT SMOKE DETECTORS FURNISHED BY DIVISION 26 IN SUPPLY AIR DUCTS OF AIR HANDLING UNITS SCHEDULED TO EXCEED 2000 CFM AND WHERE INDICATED ON DRAWINGS. DETECTOR TO SHUT DOWN WHEN ACTIVATED.

MOTORIZED DAMPERS SHALL COMPLY WITH A MAXIMUM LEAKAGE RATE OF 4 CFM/FT2 AT 1.0 INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

GRAVITY DAMPERS USED IN BUILDINGS FOR EXHAUST AND RELIEF SHALL COMPLY WITH A MAXIMUM LEAKAGE RATE OF 20 CFM/FT2 AT 1.O INCH WATER GAUGE WHEN TESTED IN ACCORDANCE WITH AMCA 500D.

AIR CONDITIONING UNITS (DX SPLIT):
UNITS SHALL BE SPLIT SYSTEM AIR-TO-AIR ELECTRIC AIR CONDITIONING UNITS AND HEAT PUMPS AS SCHEDULED ON DRAWINGS. UNITS WITH INTEGRAL ELECTRIC RESISTANCE HEATERS SHALL HAVE A SINGLE-POINT ELECTRIC CONNECTION.

TOTAL COOLING CAPACITY OF THE UNITS SHALL BE AS SCHEDULED ON DRAWINGS. UNIT CABINET SHALL BE CONSTRUCTED OF GALVANIZED STEEL, BONDED AND COATED WITH BAKED ENAMEL. CABINET INSULATION SHALL COMPLY WITH ***INTERNATIONAL*** ENERGY CODE.

FANS AND MOTORS - THE INDOOR AIR FANS SHALL BE OF THE FORWARD-CURVED CENTRIFUGAL CLASS 1 TYPE. MOTOR AND DRIVE TO PROVIDE HIGHER FAN OUTPUT WHEN JOB REQUIREMENTS EXCEED STANDARD FAN CAPACITY SHALL BE PROVIDED.

COOLING SYSTEM SHALL BE PROTECTED BY LOSS OF CHARGE PROTECTION, HIGH AND LOW PRESSURE SENSORS, COMPRESSOR MOTOR OVERLOADS, AND A TIMING DEVICE WHICH WILL PROHIBIT THE COMPRESSOR MOTOR FROM BEING SUBJECTED TO A STARTING CURRENT MORE THAN ONCE EVERY FIVE MINUTES.

HEAT PUMP/CONDENSING UNIT INSTALLATION:
PROVIDE CONCRETE PADS FOR GRADE MOUNTED CONDENSING UNITS. PADS SHALL BE A MINIMUM OF 4" THICK, 3,000 PSI CONCRETE, AND SHALL BE 4" LARGER ON EACH SIDE THAN THE FOOTPRINT OF THE CONDENSING UNIT. VERIFY UNIT DIMENSIONS WITH APPROVED SHOP DRAWINGS PRIOR TO FABRICATION OF PADS.

AIR DISTRIBUTION EQUIPMENT:

FURNISH SUPPLY AIR GRILLES AND RETURN AIR REGISTERS WITH OPPOSED BLADE BALANCING DAMPERS AS SCHEDULED ON THE DESIGN DRAWINGS.

GRILLES, REGISTERS, AND CEILING DIFFUSERS SHALL BE FURNISHED AS SCHEDULED ON THE DESIGN DRAWINGS AND SHALL BE ALL ALUMINUM CONSTRUCTION UNLESS NOTED OTHERWISE. AIR DISTRIBUTION SHALL NOT EXCEED NC-30 NOISE CRITERIA AS DEFINED IN THE LATEST ASHRAE GUIDE.

EXHAUST FANS:

FURNISH EXHAUST FANS WITH PERFORMANCE AND CAPACITIES AS LISTED ON THE DESIGN DRAWINGS.

COORDINATE WITH ARCHITECT TO LOCATE EXHAUST FANS, EXHAUST GRILLES, WALL OR ROOF CAPS A MINIMUM DISTANCE OF 10'-0" FROM ANY OPERABLE WINDOW, DOOR OR FRESH AIR INTAKE.

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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General Contractor

Project Location

W P I - B A T O N R O U G E
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

MECHANICAL SPECIFICATIONS

Seal

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BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: EO
Checked By: BSH
Project No:

Drawing No.

M0.02

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EXHAUST FAN SCHEDULE

MARK	AREA SERVED	TYPE	CFM	DRIVE TYPE	E.S.P.	WATTS/HP	R.P.M.	VOLTS/PH	SONES	MANUFACTURER	MODEL NO.	NOTES
EF-1	BATHROOMS/JC	INLINE	375	DIRECT	0.5	1/6 HP	1725	115/1	7.4	GREENHECK	SQ-95-VG	1
EF-2, 1-2.5	SHOP	SIDEWALL	1905	DIRECT	0.4	1/2 HP	1725	120/1	36	COOK	AWD-16A17DB	2-7
EF-3	WASH BAY	CEILING	275	DIRECT	0.624	135 WATTS	1350	115/1	5.0	GREENHECK	SP-A300	1
EF-4	MAKE READY SHOP	SIDEWALL	400	DIRECT	0.3	1/4 HP	1725	115/1	5.3	GREENHECK	SE1-12-432-VG	2,3,4,6
EF-5.1, 5.2	RESTROOMS	CEILING	75	DIRECT	0.45	27.6 WATTS	---	120/1	0.9	BROAN	LP510RS	1
EF-6	CONFERENCE	INLINE	100	DIRECT	0.5	26 WATTS	1230	115/1	1.3	GREENHECK	CSP-A390-VG	9
EF-7	BREAKROOMS	INLINE	435	DIRECT	0.7	1/4 HP	1725	115/1	12.9	GREENHECK	SQ-98-VG	10
EF-8	PARTS	INLINE	200	DIRECT	0.5	1/4 HP	1725	115/1	12.1	GREENHECK	SQ-97-VG	9
EF-9	TRACK PRESS	SIDEWALL	830	DIRECT	0.5	1/4 HP	1725	115/1	15.6	GREENHECK	SE1-12-432-VG	2,3,4,6

NOTES:
1. PROVIDE COMPLETE WITH FUSED DISCONNECT SWITCH, DESIGNER GRILLE, FACTORY SOLID STATE SPEED CONTROLLER, FACTORY BACKDRAFT DAMPER, AND FACTORY HANGING VIBRATION ISOLATOR KIT, INTERLOCK WITH ROOM LIGHT SWITCH.
2. PROVIDE COMPLETE WITH FUSED DISCONNECT SWITCH, FACTORY BACKDRAFT DAMPER AND FULL WEATHER HOOD.
3. PROVIDE INDIVIDUAL WALL SWITCH TO RUN WHEN SHOP SPACE IS IN OCCUPATION/USE.
4. PROVIDE WITH WALL HOUSING, DAMPER, DAMPER GUARD AS KIT. ONLY RUN ON SWITCH.
5. PROVIDE SINGLE SWITCH TO OPERATE ALL (5) FANS IN REPAIR SHOP.
6. SEE FLOOR PLANS FOR DAMPER/FAN INTERLOCKS.
7. PROVIDE REPAIR SHOP EXHAUST FANS WITH FULL WEATHER HOODS.
8. FAN SHALL BE THERMOSTATICALLY CONTROLLED.
9. PROVIDE COMPLETE WITH FUSED DISCONNECT, SOLID STATE SPEED CONTROLLER, FACTORY BACKDRAFT DAMPER AND FACTORY HANGING VIBRATION ISOLATOR KIT. PROVIDE WITH WALL SWITCH. ARCHITECT/OWNER TO PROVIDE EXACT LOCATION.
10. PROVIDE COMPLETE WITH FUSED DISCONNECT, SOLID STATE SPEED CONTROLLER, FACTORY BACKDRAFT DAMPER AND FACTORY HANGING VIBRATION ISOLATOR KIT. INTERLOCK EXHAUST FAN WITH FCU-6.

AIR DEVICE SCHEDULE

MARK	DESCRIPTION	FACE SIZE	NECK	MATERIAL	BASIS OF DESIGN MANUFACTURER/MODEL #	DAMPER	NOTES
A	LOUVERED FACE 2 CONE ADJUSTABLE SUPPLY DIFFUSER	24"x24"	SEE TABLE BELOW	ALUMINUM	METAL AIRE 5700A	N	1,2,3
B	LOUVERED FACE 2 CONE ADJUSTABLE SUPPLY DIFFUSER	12"x12"	SEE TABLE BELOW	ALUMINUM	METAL AIRE 5700A	N	1,2,3
C	EGGCRATE RET./EXH. GRILLE (1\/2"x1\/2"x1\/2")	24"x24"	22"X22"	ALUMINUM	METAL AIRE CC-5	N	1,2
D	EGGCRATE RET./EXH. GRILLE (1\/2"x1\/2"x1\/2")	12"x12"	10"x10"	ALUMINUM	METAL AIRE CC-5	Y	1,2
E	SIDEWALL DOUBLE DEFLECTION SUPPLY GRILLE	NOTE 5	SEE TABLE BELOW	ALUMINUM	METAL AIRE H4004	Y	1,4,5

NOTES:
1. COORDINATE COLOR AND SURFACE FINISHES WITH ARCHITECTURAL DRAWINGS.
2. PROVIDE RAPID MOUNT T-BAR FRAME FOR PLASTER AND SHEET ROCK CEILINGS.
3. SUPPLY COMPLETE WITH FACTORY INSTALLED 1/2" THICK FOIL BACKED INSULATION.
4. PROVIDE STEEL GRILLE WHEN USED IN ACCORDANCE WITH U.L. APPROVED PENETRATION DETAIL.
5. FACE SIZE DEPENDENT UPON NECK SIZE.

A-CFM	
CFM RANGE	NECK SIZE
0 - 95	6"Ø
96 - 205	8"Ø
206 - 375	10"Ø
376 - 605	12"Ø
606 - 850	14"Ø

B-CFM	
CFM RANGE	NECK SIZE
0 - 40	4"Ø
41 - 60	5"Ø
61 - 95	6"Ø
96 - 145	7"Ø
146 - 205	8"Ø

C-CFM	
CFM RANGE	NECK SIZE
0 - 2500	22"X22"

D-CFM	
CFM RANGE	NECK SIZE
0 - 550	10"X10"

E-CFM	
CFM RANGE	NECK SIZE
0 - 75	6"x6"
76 - 150	10"x6"
151 - 200	12"x6"
201 - 250	12"x8"
251 - 300	14"x8"

ELECTRIC UNIT HEATER SCHEDULE

MARK	VOLTS	PHASE	KW	AMPS	CFM	MANUFACTURER	MODEL NO.	NOTES
EH-1	208	1	1.5 KW	10	400	REZNOR	EHC-1.5	1

NOTES:
1. PROVIDE WITH FIELD INSTALLABLE CONTROL KIT, HEAVY GAUGE DIE-FORMED STEEL HOUSING, PULL-THROUGH AIR FLOW DESIGN, BRANCH CIRCUIT FUSING (WHERE REQUIRED), FACTORY 24V CONTROL TRANSFORMER OPTION, AND AUTOMATIC RESET CAPILLARY TYPE LINEAR THERMAL CUT-OUT.

INFRARED RADIANT HEATER SCHEDULE

MARK	LENGTH	MIN/MAX NATURAL GAS PRES. (IN W.C.)	NOMINAL INPUT (MBTUH)	ELECTRICAL (VOLTS/PHASE)	NO. OF SECTIONS	MANUFACTURER	MODEL NO.	NOTES
RH-1	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-2	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-3	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-4	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-5	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-6	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-7	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-8	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-9	20'	5.0/10.0	60	120/1	1	AMBIRAD	VPLUSUS60	1,2,3,4,5
RH-10	10'	5.0/10.0	40	120/1	1	AMBIRAD	VPLUSUS40	1,2,3,4,5

NOTES:
1. MOUNT UNITS AS HIGH TO STRUCTURE AS POSSIBLE PROVIDING 14' MINIMUM CLEARANCE ABOVE PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
2. PROVIDE COMPLETE WITH UNIT DISCONNECT, GAS VALVE, GAS PRESSURE REGULATOR, ALL CODE REQUIRED LIMIT SAFETY CONTROLS, AND BLOCKED VENT SWITCH. INCLUDE 24 VOLT THERMOSTAT AND CONTROL TRANSFORMER WHERE REQUIRED AS SHOWN ON PLANS.
3. FOR MINIMUM CLEARANCES REFER TO MOUNTING CLEARANCE TABLES PROVIDE BY MANUFACTURER. MINIMUM CLEARANCE FROM THE HEATER MUST BE MAINTAINED FROM VEHICLES PARKED BELOW HEATER. IN ALL SITUATIONS, CLEARANCES TO COMBUSTIBLES MUST BE MAINTAINED.
4. SIGNS SHOULD BE POSTED IN STORAGE AREAS TO SPECIFY MAXIMUM STACKING HEIGHT TO MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLES. SUCH SIGNS MUST EITHER BE POSTED ADJACENT TO THE HEATER THERMOSTATS OR IN THE ABSENCE OF SUCH THERMOSTATS IN A CONSPICUOUS LOCATION.
5. HEATING EQUIPMENT SHALL BE CONTROLLED TO MAINTAIN A MINIMUM SPACE TEMPERATURE OF 40°F.

DX FAN COIL UNIT SCHEDULE

MARK	SERVICE	FAN				COOLING COIL				HEATING CAPACITY (MBH @ 17°F)	ELECTRIC HEATER (AT 208)	ELECTRICAL			UNIT INFORMATION				NOTES
		TOTAL AIR FLOW (CFM)	OUTSIDE AIR FLOW (CFM)	E.S.P. (IN.WG.)	DRIVE TYPE	HP	ENTERING AIR TEMP (°F DB/WB)	LEAVING AIR TEMP (°F DB/WB)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)		VOLTAGE/ PHASE	MCA	MOCP	DIMENSIONS (WxDxH)	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER	NOMINAL TONS	
FCU-1	RETAIL	2000	415	0.5	DIRECT	1.0	76.6/65.0	55/54	61.25	46.75	36.0	13 KW	208/1	73.6	80	24-5/8" x 21" x 58"	167	DAIKIN	AMST60DU1300	5	1,2,3,4,5,6
FCU-2	RETAIL	2000	415	0.5	DIRECT	1.0	76.6/65.0	55/54	61.25	46.75	36.0	13 KW	208/1	73.6	80	24-5/8" x 21" x 58"	167	DAIKIN	AMST60DU1300	5	1,2,3,4,5,6
FCU-3	PARTS	1400	260	0.5	DIRECT	1.0	77.7/65.8	56.2/54.8	36.33	27.88	24.0	8.67 KW	208/1	48.0	60	21-1/8" x 21" x 53-7/16"	153	DAIKIN	AMST42CU1300	3.5	1,2,3,5,6
FCU-4	PARTS	1200	220	0.5	DIRECT	1.0	77.7/65.8	56.2/54.8	42.27	32.52	24.0	8.67 KW	208/1	48.0	60	21-1/8" x 21" x 53-7/16"	153	DAIKIN	AMST42CU1300	3.5	1,2,3,5,6
FCU-5	OFFICE	1130	195	0.50	DIRECT	3/4	75.4/64	56.4/55	43.86	33.18	21.6	8.67 KW	208/1	50.5	60	21-1/8" x 21" x 49"	153	DAIKIN	AMST36CU1300	3.0	1,2,3,5,6
FCU-6	OFFICE	1225	245	0.50	DIRECT	3/4	77.5/65.4	56.98/55.61	54.07	39.89	21.6	8.67 KW	208/1	50.5	60	21-1/8" x 21" x 49"	153	DAIKIN	AMST36CU1300	3.0	1,2,3,5,6
FCU-7	OFFICE	1785	315	0.50	DIRECT	1.0	75.8/64.6	55.2/54	49.0	37.8	36.0	13 KW	208/1	73.6	80	24-5/8" x 21" x 58"	167	DAIKIN	AMST60DU1300	5	1,2,3,5,6

NOTES:
1. PROVIDE COMPLETE WITH SINGLE POINT WIRING, 1" THICK CABINET FOIL FACED INSULATION, AND FUSED DISCONNECT.
2. CONTRACTOR INSTALL MANUFACTURER RECOMMENDED DIGITAL THERMOSTAT IN SPACE AS INDICATED ON UNIT PLANS.
3. ELECTRIC HEATER SHALL BE ENABLED WHEN HEAT PUMP COMPRESSOR HAS BEEN DISABLED.
4. PROVIDE DUCT SMOKE DETECTOR FOR UNITS WITH 2000 CFM OR GREATER.
5. SIZE REFRIGERANT PIPING BASED ON MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. HEATING EQUIPMENT SHALL BE CONTROLLED TO MAINTAIN A MINIMUM SPACE TEMPERATURE OF 40°F.

AIR COOLED HEAT PUMP UNIT SCHEDULE

MARK	SERVES	LOCATION	NOMINAL COOLING (MBH)	COMPRESSOR		ELECTRICAL			UNIT INFORMATION				MINIMUM SEER2	MINIMUM HSPF2	NOTES
				OUTDOOR DESIGN TEMP. (F°)	QTY.	VOLTAGE/ PHASE	MCA	MOCP	UNIT SIZE L x W x H	OPERATING WEIGHT (LBS)	MANUFACTURER	MODEL NUMBER			
HP-1	RENTALS/RETAIL	GRADE	60	95	1	208/1	34.8	60	35-1/2" x 35-1/2" x 41-5/8"	309	DAIKIN	DH5SEA6010	14.3	7.5	1,2,3,4
HP-2	RENTALS/RETAIL	GRADE	60	95	1	208/1	34.8	60	35-1/2" x 35-1/2" x 41-5/8"	309	DAIKIN	DH5SEA6010	14.3	7.5	1,2,3,4
HP-3	PARTS	GRADE	42	95	1	208/1	19.3	30	35-1/2" x 35-1/2" x 35-3/4"	257	DAIKIN	DH4SEA4210	14.3	7.5	1,2,3,4
HP-4	PARTS	GRADE	42	95	1	208/1	19.3	30	35-1/2" x 35-1/2" x 35-3/4"	257	DAIKIN	DH4SEA4210	14.3	7.5	1,2,3,4
HP-5	CONFERENCE/OFFICES	GRADE	36	95	1	208/1	21.5	35	35-1/2" x 35-1/2" x 39-1/2"	222	DAIKIN	DH3SEA3610	14.3	7.5	1,2,3,4
HP-6	BREAKROOMS/OFFICES	GRADE	36	95	1	208/1	21.5	35	35-1/2" x 35-1/2" x 39-1/2"	222	DAIKIN	DH3SEA3610	14.3	7.5	1,2,3,4
HP-7	RECEPTION/OFFICES	GRADE	60	95	1	208/1	34.8	60	35-1/2" x 35-1/2" x 41-5/8"	309	DAIKIN	DH5SEA6010	14.3	7.5	1,2,3,4

NOTES:
1. PROVIDE COMPLETE WITH R32 REFRIGERANT, SCROLL COMPRESSOR, FIELD INSTALLED FILTER/DRIER, FRONT SEATING SERVICE VALVES, INTERNAL PRESSURE RELIEF VALVE, INTERNAL THERMAL OVERLOAD, LONG LINE CAPABILITY, LOW AMBIENT CAPABILITY KIT (WHERE REQUIRED), ACCUMULATOR, AND HIGH PRESSURE CUTOUT SWITCH AND LOSS OF CHARGE SWITCH.
2. PROVIDE WITH THESE FACTORY OPTIONS: ANTI-SHORT CYCLE RELAY, TIME DELAY RELAY (TO MEET AHRI RATING WHERE INDOOR IS NOT EQUIPPED), ANTI-SHORT CYCLE TIMER, COMPRESSOR START ASSIST CAPACITOR AND RELAY, CRANKCASE HEATER, EVAPORATOR FREEZE THERMOSTAT & ISOLATION RELAY (WHEN LOW AMBIENT KIT IS USED), LIQUID LINE SOLENOID VALVE, LOW AMBIENT PRESSURE SWITCH KIT, LOW AMBIENT CONDENSER FAN MOTOR SPEED CONTROLLER, REVERSING VALVE AND BI-FLOW TXV.
3. CONTRACTOR TO PROVIDE CODE APPROVED PAD FOR HEAT PUMP UNITS TO BE MOUNTED ON. TIE-DOWN RACKS PER HP TIE-DOWN DETAILS.
4. HEAT PUMP COMPRESSOR SHALL NOT OPERATE SIMULTANEOUSLY WITH EMERGENCY ELECTRIC HEATER IN FAN COIL UNIT.
5. SIZE REFRIGERANT PIPING BASED ON MANUFACTURER'S INSTALLATION INSTRUCTIONS.

VENTILATION SCEHDULE

ZONE	SPACE	TYPE (IMC 2021 / ASHRAE 170)	NOTES	GROSS AREA Ag (SF)	NET AREA Az (SF)	Table 403.3.1.1 DEFAULT OCCUPANT DENSITY (PEOPLE/1000SF)	NO. OF PEOPLE (ROUNDED) Pz	Table 403.3.1.1 OUTDOOR AIR RATE PEOPLE Rp (CFM/PERSON)	Table 403.3.1.1 OUTDOOR AIR RATE AREA Ra (CFM/SF)	Table 403.3.1.1 EXHAUST AIR RATE EXHAUST RATE Re (CFM/SF)	OUTDOOR AIRFLOW RATE REQUIRED IN THE BREATHING ZONE (IN OCCUPIED SPACE) Vbz (CFM)	Table 403.3.1.2 ZONE AIR DISTRIB. EFFECTIVENESS Ez	APPROX. OUTDOOR AIR INTAKE FLOW RATE Vot (CFM)
FCU-1,2	A101 RENTALS	Retail stores, sales floors and showroom floors: Sales	1	3472	3472	15	52	7.5	0.12	0	807	1.0	810
												TOTAL	810
FCU-3,4	A133 PARTS	Warehouses: Storage	1	4691	4691	-	10	10	0.06	0	382	0.8	480
												TOTAL	480
FCU-5	A102 SALES/ADMIN	Offices: Office spaces	1	110	110	5	1	5	0.06	0	9	0.8	15
	A103 SALES/ADMIN	Offices: Office spaces	1	110	110	5	1	5	0.06	0	9	0.8	15
	A104 BRANCH MANAGER	Offices: Office spaces	1	176	176	5	1	5	0.06	0	16	0.8	20
	A109 CONFERENCE	Offices: Conference rooms	1	354	354	50	16*	5	0.06	0	101	0.8	130
	A118 J.C.	Retail stores, sales floors and showroom floors: Storage rooms	1	9	9	0	0	0	0.12	0	1	0.8	5
	A119 HALL	Public spaces: Corridors	1	140	140	0	0	0	0.06	0	8	0.8	10
												TOTAL	195
FCU-6	A105 PARTS MANAGER	Offices: Office spaces	1	116	116	5	1	5	0.06	0	10	0.85	15
	A106 SALES/ADMIN	Offices: Office spaces	1	118	118	5	1	5	0.06	0	10	0.85	15
	A107 SALES/ADMIN	Offices: Office spaces	1	117	117	5	1	5	0.06	0	10	0.85	15
	A108 BREAK ROOM 1	Breakrooms	1	245	245	25	7	5	0.06	0	50	0.85	60
	A110 BREAK ROOM 2	Breakrooms	1	293	293	25	8	5	0.06	0	58	0.85	70
	A111 SERVICE MANAGER	Offices: Office spaces	1	156	156	5	1	5	0.06	0	14	0.85	20
	A112 SERVICE ADMINS	Offices: Office spaces	1	220	220	5	1	5	0.06	0	18	0.85	25
	A113 STORAGE	Retail stores, sales floors and showroom floors: Storage rooms	1	36	36	0	0	0	0.12	0	4	0.85	5
	A120 HALL	Public spaces: Corridors	1	270	270	0	0	0	0.06	0	16	0.85	20
												TOTAL	245
FCU-7	A121 RECEPTION	Offices: Reception areas	1	228	228	30	3*	5	0.06	0	29	0.8	40
	A122 OFFICE	Offices: Office spaces	1	180	180	5	1	5	0.06	0	15	0.8	20
	A123 OFFICE	Offices: Office spaces	1	186	186	5	1	5	0.06	0	16	0.8	20
	A124 OFFICE	Offices: Office spaces	1	191	191	5	1	5	0.06	0	16	0.8	25
	A125 OFFICE	Offices: Office spaces	1	185	185	5	1	5	0.06	0	16	0.8	20
	A126 STORAGE	Retail stores, sales floors and showroom floors: Storage rooms	1	30	30	0	0	0	0.12	0	4	0.8	5
	A127 HALL	Public spaces: Corridors	1	330	330	0	0	0	0.06	0	20	0.8	25
	A128 CORPORATE ADMINS	Offices: Office spaces	1	384	384	5	4	5	0.06	0	43	0.8	55
	A129 CONFERENCE	Offices: Conference rooms	1	300	300	50	12*	5	0.06	0	78	0.8	100
	A132 HALL	Public spaces: Corridors	1	42	42	0	0	0	0.06	0	3	0.8	5
												TOTAL	315
AC-1	A117 ELECIT	Offices: Office spaces	1	86	86	5	0	5	0.06	0	7	0.8	10
												TOTAL	**10**
RH-1 TO 8	A134 REPAIR SHOP	Storage: Repair garages, enclosed parking garages	1	12610	12610	0	0	0	0	0.75	9458	-	9458
												TOTAL	**9458**
RH-9	A136 TRACK PRESS	Storage: Repair garages, enclosed parking garages	1	1101	1101	0	0	0	0	0.75	826	-	826
												TOTAL	**826**
RH-10	A135 MAKE READY SHOP	Storage: Repair garages, enclosed parking garages	1	528	528	0	0	0	0	0.75	396	-	396
												TOTAL	**396**

NOTES:
1. BASED ON VENTILATION REQUIREMENTS FROM IMC 2021 WITH LOUISIANA AMENDMENTS.

DUCTLESS COOLING ONLY SPLIT SYSTEM DX SCHEDULE

MARK		SERVES	MANUFACTURER	INDOOR UNIT							OUTDOOR UNIT							SYSTEM INFORMATION				PIPING INFORMATION		NOTES
MARK INDOOR	MARK OUTDOOR			AIRFLOW (CFM)	POWER SUPPLY (V/PH)	FAN MOTOR FLA	MCA	WEIGHT (LBS)	MODEL #	STYLE	COMPRESSOR TYPE	HEAT PUMP	POWER SUPPLY (V/PH)	MCA	MOCP (AMPS)	WEIGHT (LBS)	MODEL #	REFRIGERANT TYPE	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	SEER2	MAX PIPING LENGTH (FT)	MAX HEIGHT DIFFERENCE (FT	
AC-1.1	CU-1.1	ELECIT	DAIKIN	247	208/1	0.1	*	20.9	FTKF12AXVJU	WALL	SWING	NO	208/1	9.15	15	60	RKF12AXVJU	R32	12	-	21.0	65-5/8	49-1/4	1,2,3,4,5,6

NOTES:
1. PROVIDE COMPLETE WITH SINGLE POINT WIRING, FUSED DISCONNECT, DIGITAL THERMOSTAT, SELF CHECK FUNCTIONING ON-BOARD DIAGNOSTICS, AND AUTOMATIC POWER OUT RESTART.
2. INDOOR UNIT POWERED BY OUTDOOR UNIT. PROVIDE WITH ALL REQUIRED CONNECTION WIRING, PIPING, AND APPURTENANCES.
3. PROVIDE WITH FACTORY HARD WIRED WALL MOUNTED REMOTE CONTROLLER.
4. CAPACITIES SHOWN ARE BASED ON 80/67-F AND 95-F AMBIENT AND PIPING LENGTH OF 25 FEET.
5. SIZE REFRIGERANT PIPING BASED ON MANUFACTURER'S INSTALLATION INSTRUCTIONS.
6. PROVIDE COMPLETE WITH CONDENSATE PUMP.

* INDOOR UNIT POWERED FROM OUTDOOR UNIT.

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description

Submissions & Revisions

Owner

W P I
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Structural Engineer

raSmith
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M.E.P. & F.P. Engineers

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INGENUITY ENGINEERS, INC.
"CREATIVE ENGINEERING SOLUTIONS"
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General Contractor

Project Location

W P I - B A T O N R O U G E
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

MECHANICAL SCHEDULES

Seal

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Checked By: BSH
Project No:

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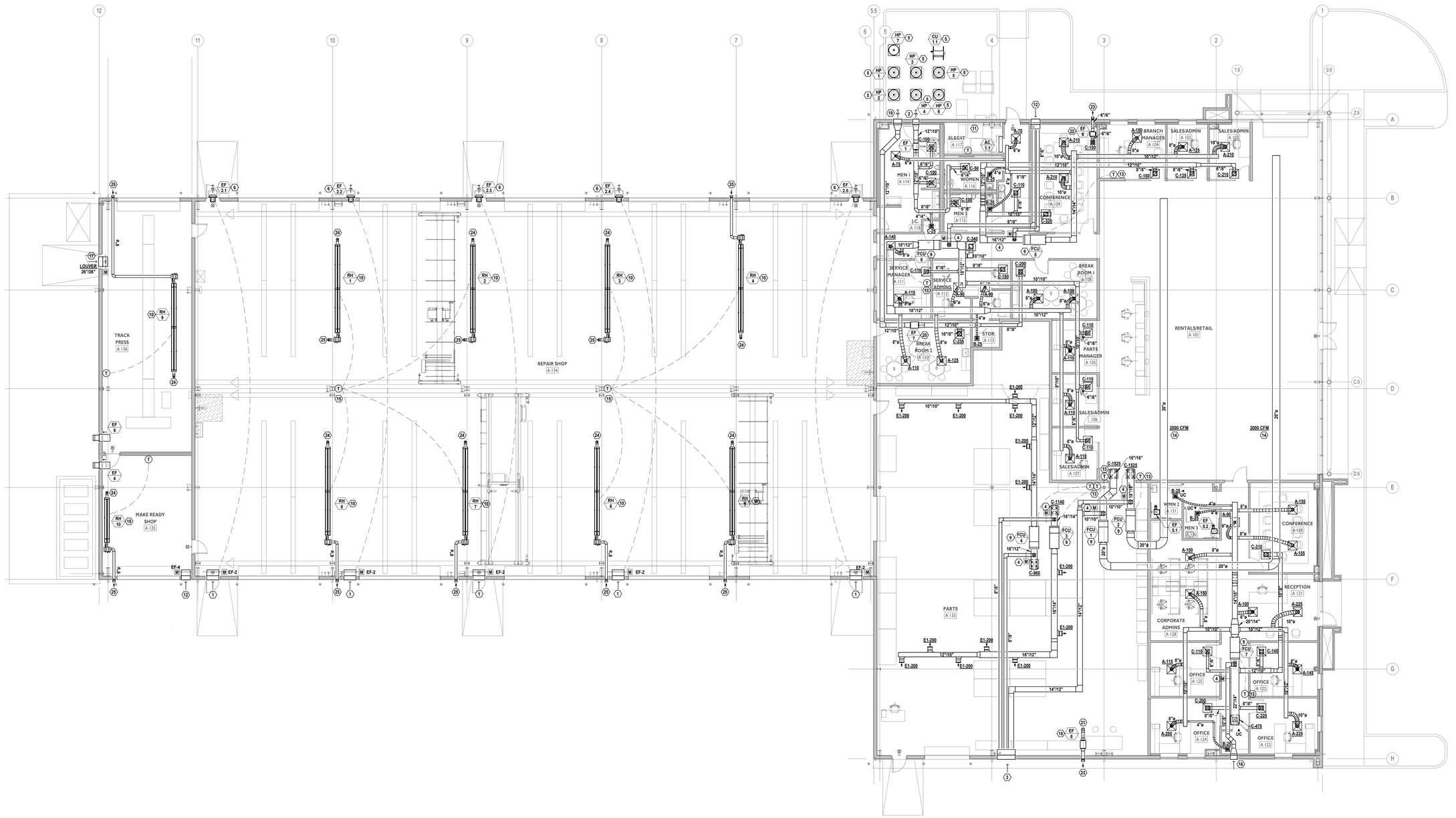
REFERENCE NOTES

1. 32"X36" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. MOUNT AT MIN 8' A.F.F. TO BOTTOM, (SEE ARCH.) INTERLOCK MOTORIZED DAMPER WITH EF LABELED ON PLAN. PROVIDE WITH 1/2" WIRE MESH SCREEN.
2. 16"X16" EXHAUST AIR LOUVER EQUIVALENT TO GREENHECK EVH-501D. PROVIDE WITH 1/2" WIRE MESH SCREEN.
3. 48"X24" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. FOR PARTS & RETAIL FCU-1,2,3,4.
4. PROVIDE 24V AUTOMATIC CLOSING MOTORIZED DAMPER INTERLOCKED WITH FCU FAN.
5. MOUNT C.U. ON 4" THICK CONCRETE HOUSEKEEPING PAD. (4"GREATER THAN UNIT IN ALL DIRECTIONS).
6. MOUNT BOTTOM OF EXHAUST FAN IN COORDINATION WITH DOOR OVERHEAD. MUST BE MIN 3' ABOVE DOOR OPENING.
7. REFRIGERANT LINE SET. SUPPORT AND ANCHOR PIPE ON UNISTRUT SUPPORTS. REFRIGERANT LINES SETS TO BE ENCLOSED WITHIN WALL & PENETRATE AT GRADE TO FEED EQUIPMENT.
8. ROUTE CONDENSATE TO EXTERIOR OF BUILDING. SLOPE 1/8" PER FOOT. TERMINATE BELOW GRADE TO DRY WELL. SEE DETAIL ON SHEET M6.01. CONTRACTOR TO VERFY THAT INSTALL LOCATION IS NOT LOCATED ABOVE COLUMN SPREAD FOOTING.
9. REFRIGERANT LINE SET. SIZE ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
10. RADIANT HEATER, MOUNTED AT+10FT A.F.F., COORDINATE WITH ALL DISCIPLINES AND PROVIDE CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.
11. COORDINATE WITH ALL ELECTRICAL PANELS IN IT ROOM.
12. 24"X16" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D.
13. MOUNT BOTTOM OF THERMOSTAT MIN. AT 48" ABOVE FINISHED FLOOR.
14. COORDINATE WITH MANUFACTURER FOR BRANCH TAKEOFFS, AIR DISTRIBUTION, ETC OF DUCTSOX DUCTWORK IN THIS LOCATION. CONTACT STAN TARQUINIO AT 407-291-0961. NO SUBSTITUTIONS.
15. REPAIR SHOP KEEPS DOORS OPEN DURING WORKING HOURS. SPACE IS VACATED AND DOORS CLOSED DURING NON-WORKING HOURS.

REFERENCE NOTES

16. 18"X16" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. MOUNT MIN. OF 8' A.F.F. TO BOTTOM OF LOUVER. PROVIDE WITH 1/2" WIRE MESH SCREEN.
17. 26"X26" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. MOUNT MIN. OF 8' A.F.F. TO BOTTOM OF LOUVER. PROVIDE WITH 1/2" WIRE MESH SCREEN.
18. PROVIDE AND INSTALL GENERAL EXHAUST FAN WITH SPARK RESISTANCE. MAINTAIN REQUIRED CLEARANCES PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
19. 16"X16" EXHAUST AIR LOUVER EQUIVALENT TO GREENHECK EVH-501D. PROVIDE MINIMUM 26 GAUGE DUCT.
20. INTERLOCK EXHAUST FAN WITH FCU-6.
21. PROVIDE EXHAUST FAN WITH BOOT AT 10' AFF. EXHAUST FAN TO BE POWERED BY SWITCH ON WALL. ARCHITECTURAL TO PROVIDE EXACT LOCATION.
22. PROVIDE EXHAUST FAN WITH WALL SWITCH. ARCHITECTURAL TO PROVIDE EXACT LOCATION.
23. MINIMUM 26 GAUGE GALVANIZED EXHAUST DUCT SIZED PER PLAN. ROUTE THROUGH BUILDING AS SHOWN. TERMINATE WITH WALL CAP AND INTEGRAL BACKDRAFT DAMPER. PRIME COAT AND PAINT WALL CAP TO MATCH ARCHITECTURAL SCHEME.
24. TERMINATE 6"Ø CATEGORY III EXHAUST FLUE WITH CODE APPROVED ROOF CAP AT A MINIMUM OF 25" ABOVE ROOF AND INSULATE EXHAUST PENETRATION. REFER TO DETAIL ON SHEET M6.01 AND MANUFACTURERS INSTALLATION SPECIFICATIONS. PIPING MATERIAL SHALL BE UL-1738 APPROVED FOR VENTING CATEGORY III GAS BURNING APPLIANCES, SIMILAR TO STAINLESS STEEL AL29-4C.
25. CPVC 6"Ø COMBUSTION AIR INTAKE FOR RADIANT HEATING UNITS. REFER TO DETAIL ON SHEET M6.01 AND MANUFACTURER'S INSTALLATION SPECIFICATIONS. PROVIDE WALL CAP AT TERMINATION WITH BIRDSCREEN OR FACTORY WALL TERMINATION INLET KIT AT WALL/ROOF.



1 BUILDING A FLOOR PLAN - MECHANICAL
M2.10 1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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INGENUITY ENGINEERS, INC.
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6275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.398.6007

General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - MECHANICAL

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER

Date: 10/03/2025
Drawn By: EO
Checked By: BSH
Project No:
BRIAN S HESSINGER PE 37810
Drawing No.
M2.10

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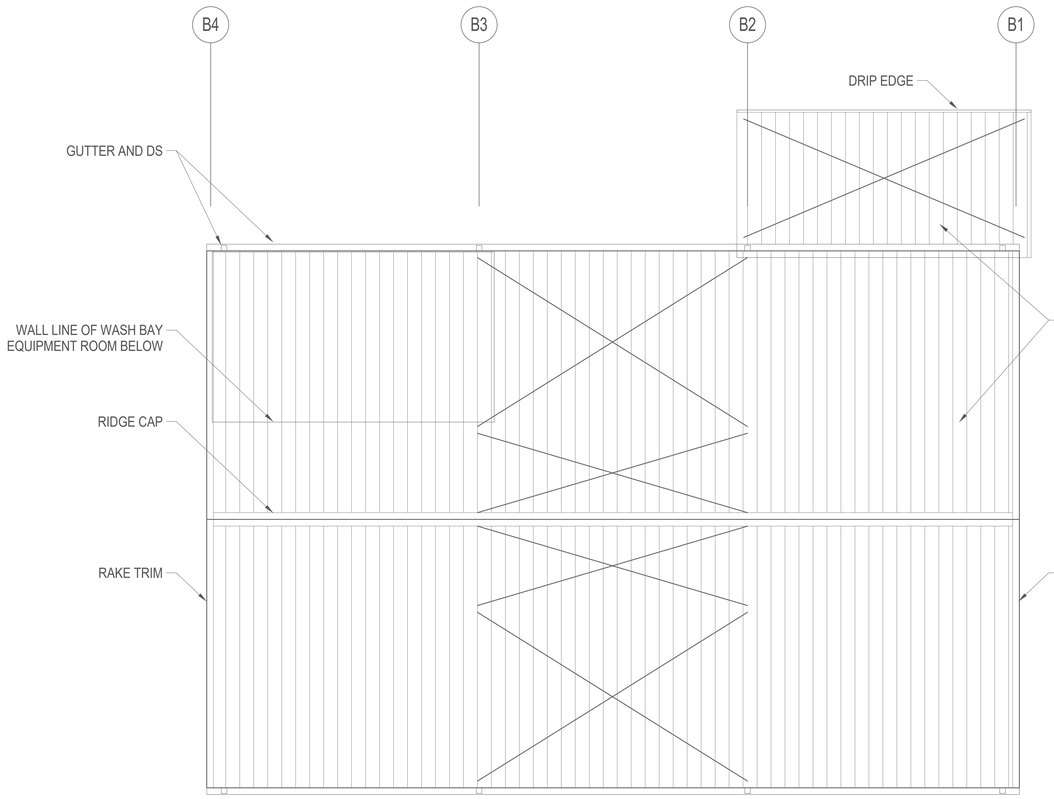
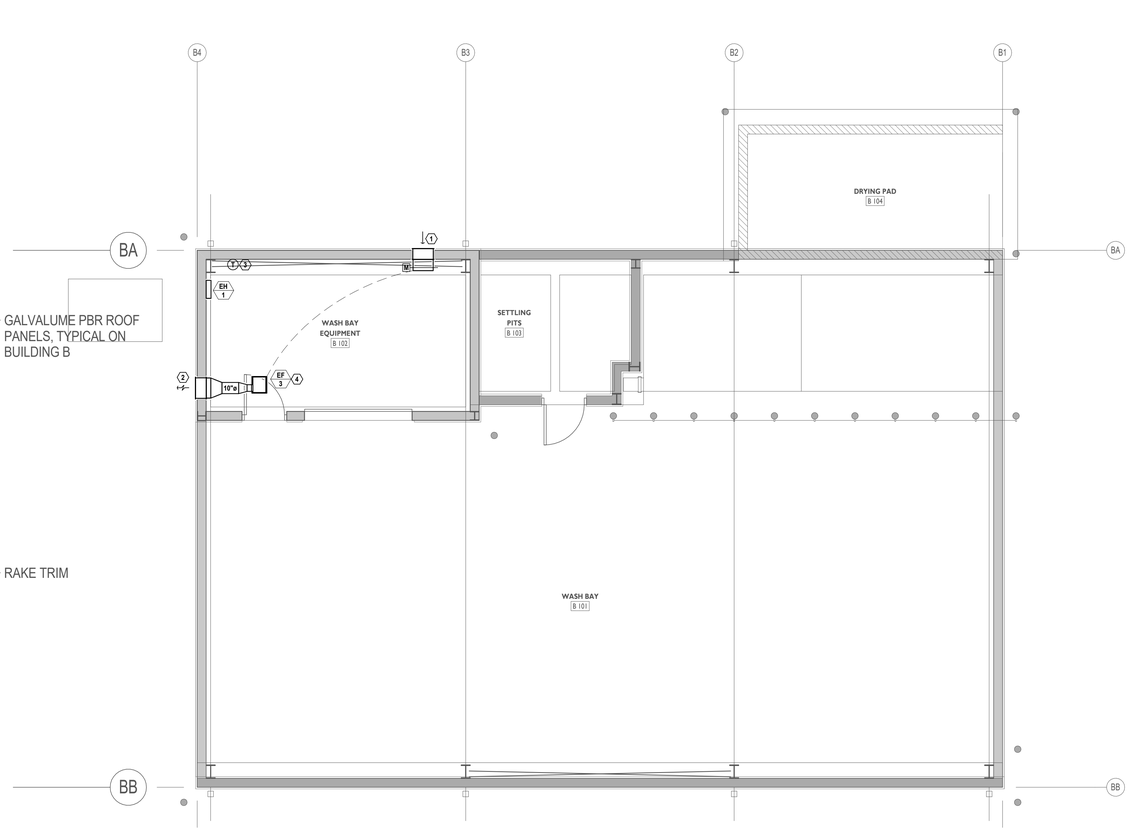
REFERENCE NOTES

1. 18"X16" INTAKE LOUVER EQUIVALENT TO GREENHECK EVH-501D. MOUNT AT 8' A.F.F. TO BOTTOM. PROVIDE WITH 1/2" WIRE MESH SCREEN.
2. 18"X16" EXHAUST AIR LOUVER EQUIVALENT TO GREENHECK EVH-501D. PROVIDE WITH 1/2" WIRE MESH SCREEN.
3. MOUNT BOTTOM OF THERMOSTAT MIN. AT 48" ABOVE FINISHED FLOOR.
4. PROVIDE AND INSTALL GENERAL EXHAUST FAN WITH SPARK RESISTANCE FOR PUMP ROOM. MAINTAIN REQUIRED CLEARANCES PER MANUFACTURERS INSTALLATION INSTRUCTIONS.



2 BUILDING B ROOF PLAN - MECHANICAL
M2.11 1/4" = 1'-0"



1 BUILDING B FLOOR PLAN - MECHANICAL
M2.11 1/4" = 1'-0"

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General Contractor

Project Location

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BATON ROUGE, LA 70817

Drawing Title

BUILDING B FLOOR PLANS - MECHANICAL

Seal

STATE OF LOUISIANA
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BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: EO
Checked By: BSH
Project No:

Drawing No.

M2.11

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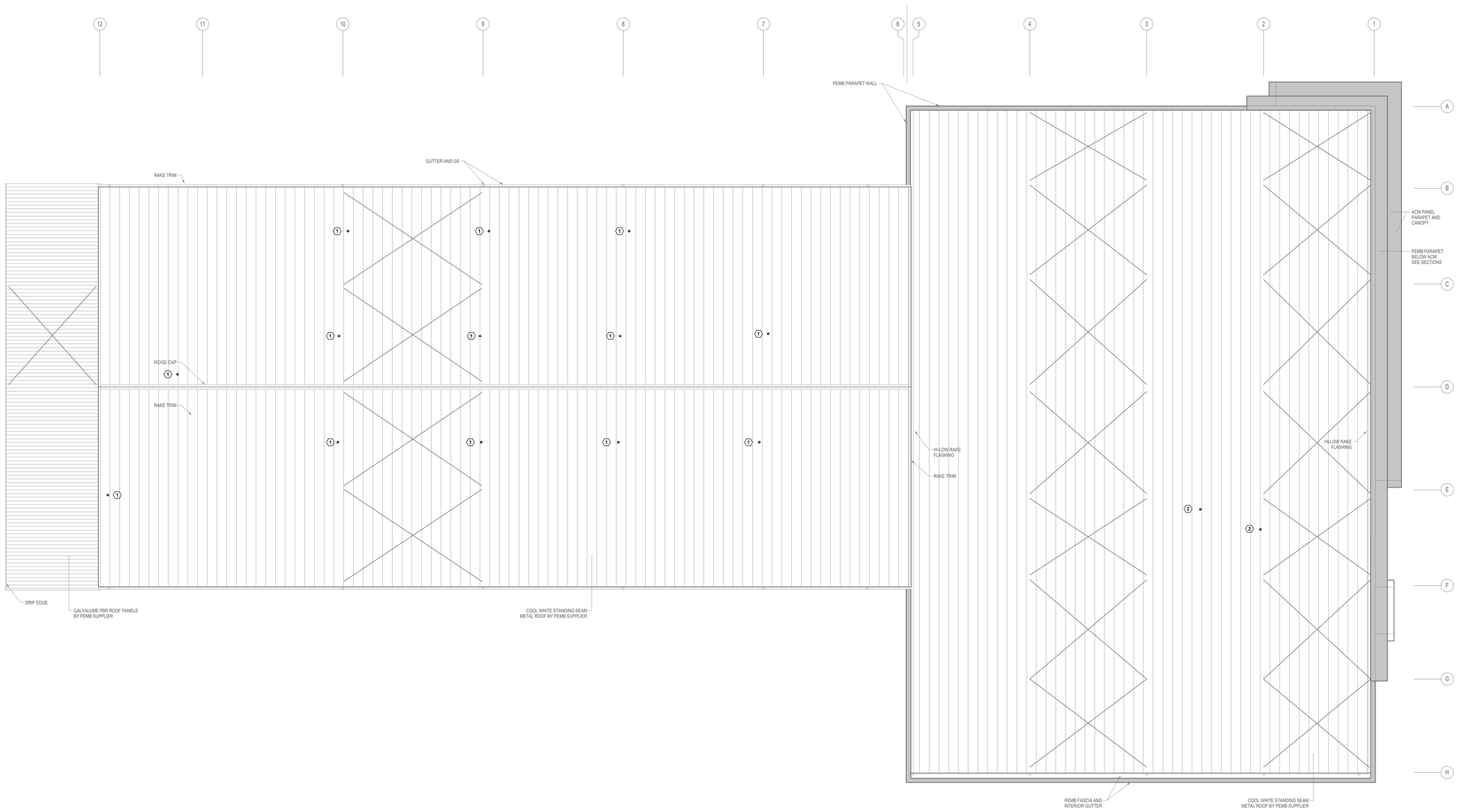
REFERENCE NOTES

1. TERMINATE 6" DIAMETER CATEGORY III EXHAUST FLUE WITH CODE APPROVED ROOF CAP AT A MINIMUM OF 25" ABOVE ROOF AND INSULATE EXHAUST PENETRATION. REFER TO DETAIL ON SHEET M6.01 AND MANUFACTURER'S INSTALLATION SPECIFICATIONS. PIPING MATERIAL SHALL BE UL-1738 APPROVED FOR VENTING CATEGORY III GAS BURNING APPLIANCES, SIMILAR TO STAINLESS STEEL AL29-4C
2. MINIMUM 26 GAUGE GALVANIZED EXHAUST DUCT. SIZED PER PLAN. TERMINATE WITH ROOF VENT CAP AND INTEGRAL BACKDRAFT DAMPER PER INSTALLATION DETAIL ON SHEET M6.01. PRIME COAT AND PAINT ROOF VENT CAP TO MATCH BUILDING COLOR.



1 BUILDING A ROOF PLAN - MECHANICAL
M3.10 1/8" = 1'-0"

ISSUED FOR PERMIT

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General Notes:

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		Submissions & Revisions

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Drawing Title

BUILDING A ROOF PLAN - MECHANICAL

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: EO
Checked By: BSH
Project No:

Drawing No.
M3.10

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A fresh air duct of 6" dia. Should be installed from the fresh air to the air intake connection on the fan housing. A flexible jointing piece should be installed at the fan connection with hose clamps to facilitate expansion and contraction.

The maximum recommended length air duct is 25 ft and the maximum number of bends is 2. The minimum length is 18 in. The location of the fresh air duct inlet must be where it will receive dust free clean air. An inlet cap with bird screen must be fitted at the inlet of the duct. If the duct inlet is located above the roof the underside of the inlet terminal must be at least 2 ft above roof level and at least 10 in above any projection on the roof within 7 ft of the inlet. Intake pipe, fittings and sealant are not furnished by the manufacturer. Refer fig 8c & d

Figure 8.a Vertical Venting.

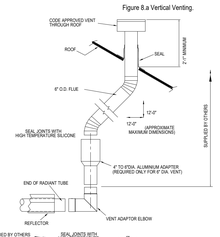


Figure 8.b Horizontal Venting.

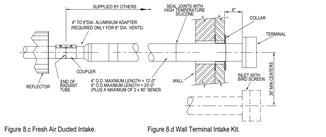


Figure 8.c Fresh Air Ducted Intake.

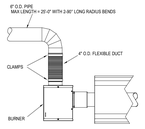
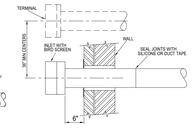


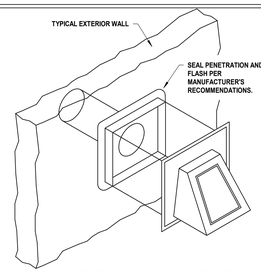
Figure 8.d Wall Terminal Intake Kit.



NOTES:
1. ROOF TERMINATION SHOULD BE STAINLESS STEEL CATEGORY III RAIN CAP WITH WIDE BAND SIMILAR TO Z-FLEX 2SVSRCX SERIES.
2. WALL TERMINATION SHOULD BE STAINLESS STEEL CATEGORY III BOX SIMILAR TO Z-FLEX 2SVSRTX SERIES.
3. DETAIL AND DRAWINGS ABOVE FOR REFERENCE ONLY.

GAS HEATER COMBUSTION AND INTAKE AIR DETAIL

NTS

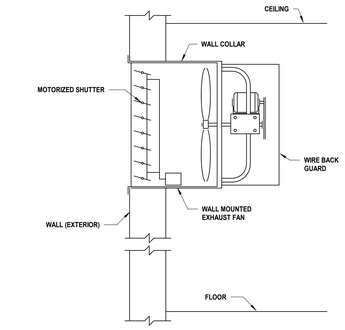


WALL CAP AS MANUFACTURED BY BROAN OR EQUIVALENT. OMIT SCREEN FOR DRYER VENT. INCLUDE BIRD SCREEN FOR FRESH AIR INTAKE AND BATHROOM EXHAUST. INSTALL PER MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS. USE MODEL NUMBER PER CONNECTION DUCT SIZE ON PLANS.

DUCT SIZE MODEL#
4" 886AL
6" 641 (641FC FOR MAKE UP AIR APPLICATIONS)
8" 643 (643FA FOR MAKE UP AIR APPLICATIONS)

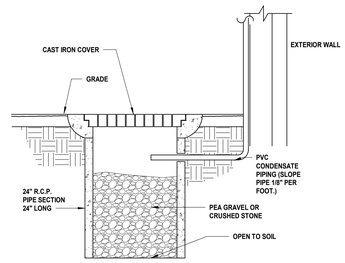
VENT - WALL CAP APARTMENT

NTS



FAN - SIDEWALL PROPELLER

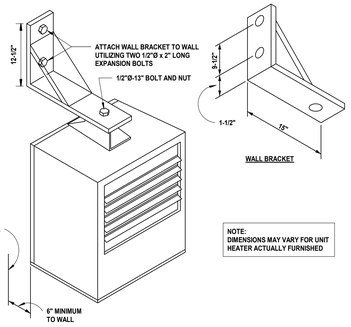
NTS



NOTE: CONTRACTOR MAY SUBMIT COMMERCIALLY PRE-MANUFACTURED DRYWELL FOR APPROVAL IN LIEU OF DESIGN SHOWN HERE.

CONDENSATE - DRYWELL DETAIL

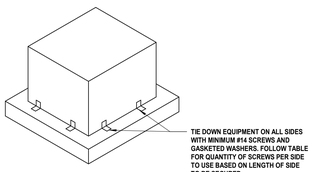
NTS



NOTE:
DIMENSIONS MAY VARY FOR UNIT HEATER ACTUALLY FURNISHED

ELECTRIC UNIT HEATER - MOUNTING DETAIL

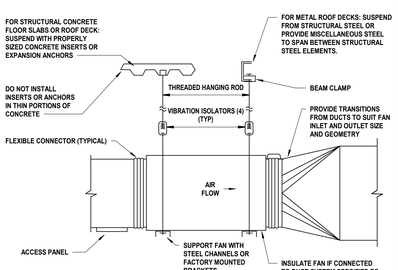
NTS



FASTENER QUANTITY TABLE	
LENGTH OF SIDE	QUANTITY
LESS THAN 12"	1 PER SIDE
12" TO 24"	2 PER SIDE
24" TO 36"	3 PER SIDE

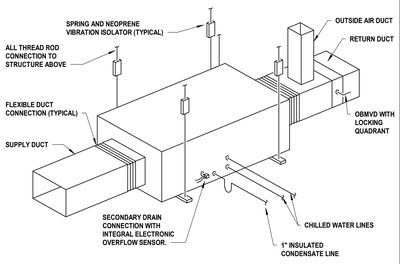
CU - EQUIPMENT TIE DOWN

NTS



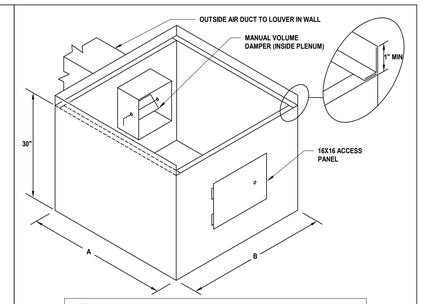
FAN - INLINE

NTS



FCU - HORIZONTAL, W/ OUTSIDE AIR

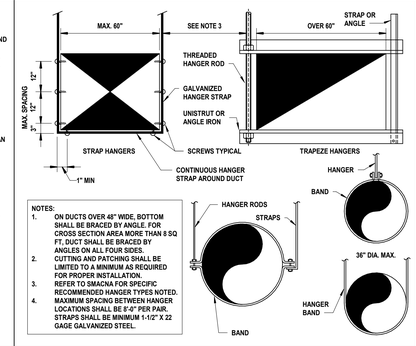
NTS



NOTES:
1. PLENUM BASE TO BE CONSTRUCTED OF MINIMUM 22 GAUGE GALVANIZED SHEET METAL.
2. PLENUM BASE TO BE INTERNALLY LINED WITH 1" INSULATION.
3. "A" & "B" DIMENSIONS TO MATCH AIR HANDLING UNIT DIMENSIONS.

DUCT - RETURN AIR PLENUM BASE

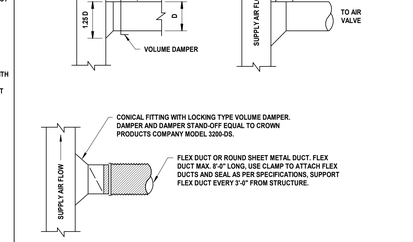
NTS



NOTES:
1. ON DUCTS OVER 48" WIDE, BOTTOM SHALL BE BRACED BY ANGLE. FOR CROSS SECTION AREA MORE THAN 8 SQ. FT, DUCT SHALL BE BRACED BY ANGLES ON ALL FOUR SIDES.
2. CUTTING AND PATCHING SHALL BE LIMITED TO A MINIMUM AS REQUIRED FOR PROPER INSTALLATION.
3. REFER TO SMACNA FOR SPECIFIC RECOMMENDED HANGER TYPES NOTED.
4. MAXIMUM SPACING BETWEEN HANGER LOCATIONS SHALL BE 8'-0" PER PAIR. STRAPS SHALL BE MINIMUM 1-1/2" X 22 GAGE GALVANIZED STEEL.

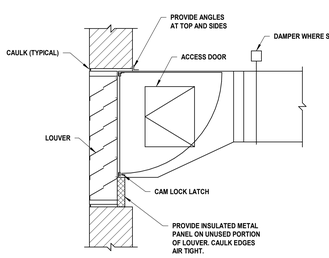
DUCT - HANGER DETAIL

NTS



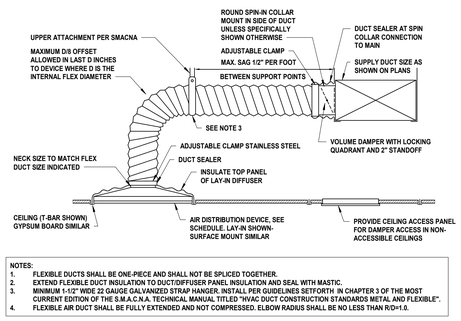
DUCT - CONNECTION DETAILS

NTS



DUCT - CONNECTION TO LOUVER

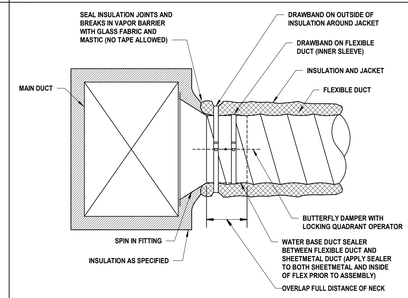
NTS



NOTES:
1. FLEXIBLE DUCTS SHALL BE ONE-PIECE AND SHALL NOT BE SPLICED TOGETHER.
2. EXTEND FLEXIBLE DUCT INSULATION TO DUCT/DIFFUSER PANEL INSULATION AND SEAL WITH MASTIC.
3. MINIMUM 1-1/2" WIDE 22 GAUGE GALVANIZED STRAP HANGER. INSTALL PER GUIDELINES SETFORTH IN CHAPTER 3 OF THE MOST CURRENT EDITION OF THE S.M.A.C.N.A. TECHNICAL MANUAL TITLED "HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE".
4. FLEXIBLE AIR DUCT SHALL BE FULLY EXTENDED AND NOT COMPRESSED. ELBOW RADIUS SHALL BE NO LESS THAN R/D=1.0.

FLEXIBLE DUCT - INSTALLATION DETAIL

NTS



NOTES:
1. TYPICAL FOR: LOW PRESSURE AND HIGH PRESSURE CONNECTION TO MAIN DUCT, FAN TERMINAL UNITS, VARIABLE AIR VOLUME UNITS, AND DIFFUSERS.
2. DRAWBANDS SHALL BE EQUIVALENT TO PANDUIT PL T-H.

FLEXIBLE DUCT - CONNECTION TO MAIN DETAIL

NTS

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Drawn By: EO
Checked By: BSH
Project No:

Drawing No.

M6.01

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GENERAL NOTES - PLUMBING

1. INSTALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES, STANDARD, ORDINANCES, REGULATIONS AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
2. CONTRACTOR SHALL VERIFY AND CORRECT AS REQUIRED TO MEET ALL CODES AND REGULATIONS ANY POSSIBLE DISCREPANCIES BETWEEN TYPE AND SIZE OF CONNECTION SPECIFIED IN PLUMBING FIXTURE SCHEDULE AND FIXTURES ACTUALLY INSTALLED ON THE SITE.
3. ALL SANITARY PIPING 3" AND LARGER SHALL HAVE 1/8" PER FOOT SLOPE U.N.O.
4. VENT PIPING SHOWN ON FLOOR PLANS IS ONLY INDICATIVE EXCEPT FOR VTR LOCATIONS.
5. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES.
6. CONTRACTOR SHALL FIELD VERIFY ALL GIVEN MEASUREMENTS PRIOR TO LAYING AND CONNECTING ALL SANITARY AND WASTE PIPING AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
7. AIR CHAMBERS SHALL NOT BE CONSIDERED AN EQUAL TO WATER ARRESTORS AS SPECIFIED.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FIRE RATING AND WEATHERPROOFING INTEGRITY OF ALL PIPING AND PENETRATIONS.
9. ALL WATER SUPPLY AND SANITARY LINES SHALL BE RUN AS CLOSE TO PLANS AS POSSIBLE WITH NO CHANGES IN SIZES.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL NECESSARY SUPPORTING DEVICES FOR ALL FIXTURES INCLUDED IN CONTRACT OR HEREIN SPECIFIED OR OTHERWISE.
11. ALL SANITARY, STORM AND WATER SUPPLY LINES SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
12. WHERE SANITARY SEWER LINES CROSS UNDERGROUND WATER SUPPLY LINES WITH LESS THAN 6" MINIMUM VERTICAL CLEARANCE, THE SANITARY SEWER SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE (10' EACH SIDE OF WATER MAIN) OR THE WATER LINES SHOULD BE MODIFIED TO PROVIDE 6" MINIMUM CLEARANCE.
13. ALL FLOOR DRAINS SHALL BE PROVIDED WITH FULLY ACCESSIBLE TRAP PRIMER VALVE AND 1/2" WATER SUPPLY PRIMER LINE. PROVIDE FULLY ACCESSIBLE SHUT OFF VALVE UPSTREAM OF TRAP PRIMER VALVE OR TRAP GUARD AS NOTED.
14. ROUTE ALL PIPING CONCEALED ABOVE CEILINGS, WITHIN WALLS, OR IN CHASES EXCEPT AS SPECIFICALLY NOTED, OR IN MECHANICAL ROOMS.
15. PROVIDE ACCESS PANELS TO ALL VALVES WITHIN CHASES OR ABOVE NON-ACCESSIBLE CEILINGS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
16. INSTALL WATER HAMMER SHOCK ARRESTORS AT EACH FIXTURE OR BATTERY OF FIXTURES WHERE REQUIRED. ARRESTORS SHALL BE FACTORY FABRICATED. ALL ARRESTORS AND SIZE PER PLUMBING AND DRAINAGE INSTITUTE STANDARD P.D.I. WH-201. ACCEPTABLE MANUFACTURERS ZURN, JOSAM, SIOUX CHIEF. PPP INC. FOR 1-11 FU'S PROVIDE PDI-A, FOR 12-32 FU'S PDI-B, 33-60 FU'S PDI-C, 61-113 FU'S PDI-D.
17. PROVIDE CLEAN OUTS AS REQUIRED BY CODE AND AHJ. PROVIDE AT INTERVALS AS REQUIRED BY CODE AND AHJ. PROVIDE CLEAN OUTS AT THE BASE OF SANITARY STACKS, STORM LEADERS, CONDENSATE DRAIN RISERS AND GREASE WASTE DRAINS MINIMUM 24" ABOVE FLOOR.
18. METERING AND SITE UTILITY CONNECTIONS SHALL BE PROVIDED ON CIVIL DRAWINGS. ALL SERVICES SHOWN ON THIS SET OF PLANS TERMINATE 5'-0" FROM BUILDING, UNLESS SHOWN OTHERWISE ON DRAWINGS. PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO SITE UTILITIES.
19. INSTALL PIPING AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE CODES, STANDARD, ORDINANCES, REGULATIONS AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION
20. FURNISH AND INSTALL HOSE BIBBS AND/OR WALL HYDRANTS 24" ABOVE FINISHED GRADE/FLOOR AND PROVIDE VACUUM BREAKERS.
21. SEE ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND DIMENSION.
22. FOR EXACT LOCATION OF ROOF DRAINS, SEE ARCHITECTURAL DRAWINGS.
23. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW SEWER LINES ARE TO BE CONNECTED BEFORE INSTALLATION OF NEW SEWER LINE.
24. ALL VENTS THROUGH ROOF SHALL BE MINIMUM 20'-0" FROM ANY AIR INTAKES.
25. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR METALS.
26. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED. INSTALL VACUUM BREAKERS WHERE REQUIRED BY CODE.
27. PROVIDE REDUCED PRESSURE BACKFLOW PREVENTERS FOR DOMESTIC WATER SUPPLIES AS REQUIRED BY LOCAL WATER PURVEYORS.
28. PROVIDE 1/2" C.W. SUPPLY WITH ANGLE STOP AND FLEXIBLE SUPPLY TO REFRIGERATORS WITH ICE MAKERS AT HEIGHT REQUIRED BY MANUFACTURER OF EQUIPMENT INSTALLED.
29. PROVIDE 1/2" H.W. SUPPLY WITH ANGLE STOP AND FLEXIBLE SUPPLY TO DISHWASHER MACHINE, AT HEIGHT REIT REQUIRED BY MANUFACTURER OF EQUIPMENT INSTALLED.
30. WATER SUPPLY PIPING SHALL BE CPVC FLO-GUARD GOLD OR APPROVED EQUAL. ALL PIPE SIZING AND ROUTING SHALL BE PER PLUMBING CODE MINIMUM. AIR ADMITTANCE VALVES MAY BE USED WHERE ACCEPTABLE TO AHJ.
31. COORDINATE EXACT LOCATION OF FLOOR AND HUB DRAINS FOR HVAC EQUIPMENT WITH MECHANICAL CONTRACTOR. PROVIDE A HOSE BIBB WITHIN ALL MECHANICAL ROOMS.
32. THE CONTRACTOR IS EXPECTED TO ORDER ALL MATERIALS IN SUFFICIENT TIME TO AVOID DELAYING THE COMPLETION OF THE PROJECT. DELAY IN DELIVERIES WILL NOT BE CONSIDERED A JUSTIFIABLE REASON FOR SUBMISSION OF SUBSTITUTE MATERIALS.
33. DO NOT PENETRATE WALL FOOTINGS WITH PIPING, COORDINATE WITH GENERAL CONTRACTOR TO DROP FOOTINGS AS REQUIRED TO CLEAR PLUMBING SERVICES WHERE ABSOLUTELY NECESSARY. ALL PIPING PENETRATING A BEARING WALL OR FOOTING MUST BE SLEEVED AND LOCATION APPROVED BY STRUCTURAL ENGINEER.
34. PROVIDE PIPE PROTECTION FOR ALL VERTICAL PIPES IN THE GARAGE SUBJECT TO DAMAGE BY VEHICULAR TRAFFIC USING STEEL PIPE GUARDS AND/OR STEEL BOLLARDS AS MFG. BY POST GUARD, IDEASHIELD OR BARNES.
35. PROVIDE TEMPERATURE MIXING VALVES FOR ALL PUBLIC USE LAVATORY FAUCETS TO LIMIT TEMPERATURE TO 120°F.
36. VALVES AND FITTINGS SHALL BE OF THE SAME SIZE LINE ON WHICH THEY ARE LOCATED, UNLESS OTHERWISE INDICATED ON DRAWINGS.
37. ALL SANITARY PIPING OVER 2-1/2" IN DIAMETER SHALL HAVE AN 1/8" PER FOOT SLOPE AND ALL SANITARY PIPING 2-1/2" OR LESS IN DIAMETER SHALL HAVE A 1/4" PER FOOT SLOPE UNLESS OTHERWISE NOTED.
38. ALL DRAINAGE PIPING SHALL BE MARKED WITH THE SEAL OF APPROVAL OF THE NATIONAL SANITATION FOUNDATION.
39. ANY PLUMBING PIPING SHALL NOT BE LOCATED IN A FILLED CMU WALL CELL. PIPING SHALL BE RELOCATED TO A NON-FILLED CELL OR LOCATED IN A FURRED OUT WALL. COORDINATE WITH STRUCTURAL AND ARCHITECTURAL.

PLUMBING LEGEND

CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CDD	CONDENSATE DRAIN UNDERGROUND
EX CD	CONDENSATE DRAIN EXISTING
CW	COLD WATER SUPPLY
CWE	COLD WATER SUPPLY EXISTING
CTY	CITY PRESSURE WATER
FM	FORCE MAIN
G	GAS
GG	GAS UNDERGROUND
EX G	GAS EXISTING
GR	GREASE
GRR	GREASE UNDERGROUND
	GREASE EXISTING
HR	OIL RECOVERY
HW	HOT WATER SUPPLY
HWE	HOT WATER SUPPLY EXISTING
120	120° HOT WATER SUPPLY
140	140° HOT WATER SUPPLY
160	160° HOT WATER SUPPLY
	HOT WATER RETURN
	HOT WATER RETURN EXISTING
SAN	SANITARY
SANN	SANITARY UNDERGROUND
EX SAN	SANITARY EXISTING
ST	STORM
STT	STORM UNDERGROUND
EX ST	STORM EXISTING
SEC	SECONDARY STORM
SECC	SECONDARY STORM UNDERGROUND
EX SEC	SECONDARY STORM EXISTING
V	VENT
EX V	VENT EXISTING
	DIRECTION OF FLOW IN PIPE
	PIPE UP
	PIPE DOWN/TEE DOWN
	BALL VALVE
	CHECK VALVE, HORIZONTAL SWING
	CAPPED LINE
	NEW POINT OF CONNECTION TO EXISTING
	POINT OF REMOVAL FOR DEMOLITION
	HOSE BIBB
	FLOOR DRAIN
	FLOOR SINK
	CLEANOUT
	2-WAY EXTERIOR CLEANOUT
	SHOCK ABSORBER

ABBREVIATIONS

A	AMPERES	Hz	FREQUENCY
ACS	AUTOMATIC CONTROL SYSTEM	IE OR INV	INVERT ELEVATION
AD	ACCESS DOOR	ID	INSIDE DIAMETER
AFF	ABOVE FINISH FLOOR	IN	INCH OR INCHES
AFG	ABOVE FINISH GRADE	INSUL	INSULATION
APPROX	APPROXIMATELY	IPS	IRON PIPE SIZE
AP	ACCESS PANEL	IW	INDIRECT WASTE
ARCH	ARCHITECTURAL	KW	KILOWATT
AUTO	AUTOMATIC	LB/HR	POUNDS PER HOUR
AUX	AUXILIARY	LBS	POUNDS
BFF	BELOW FINISH FLOOR	LIN FT	LINEAR FEET
BFP	BACKFLOW PREVENTER	MAX	MAXIMUM
BG	BELOW GRADE	MBH	THOUSANDS, BTUH
BHP	BRAKE HORSEPOWER	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MFG	MANUFACTURING
BTU	BRITISH THERMAL UNIT	MIN	MINIMUM
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
BWV	BACK WATER VALVE	NIC	NOT IN CONTRACT
CCP	CENTRAL CONTROL PANEL	NO	NORMALLY OPEN
CO	CONDENSATE DRAIN	NO.	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN-OUT	OD	OUTSIDE DIAMETER
COMB	COMBINATION	OR	OIL RECOVERY
COMPR	COMPRESSOR	P OR PRESS	PRESSURE
COND	CONDENSATE OR CONDENSER	PC	PLUMBING CONTRACTOR
CONT	CONTINUATION	PD	PRESSURE DROP
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
CU FT	CUBIC FEET	PSIA	PSI ABSOLUTE
CU IN	CUBIC INCHES	PSIG	PSI GAUGE
CW	COLD WATER	PVC	PLOYVINYL CHLORIDE
D	DRAIN LINE	R	RISE
DW	DIRECT WASTE	RD	ROOF DRAIN
EL	ELEVATION	REQ'D	REQUIRED
EQ	EQUAL	RL	RAIN LEADER
EX OR (E)	EXISTING	RM	ROOM
EXP	EXPANSION	RPM	REVOLUTIONS PER MINUTE
ESEW	EMERGENCY SHOWER / EYEWASH	RV	RELIEF VALVE
°F	DEGREE FAHRENHEIT	SAN	SANITARY
ECO	EXTERIOR CLEAN-OUT	SMH	STORM MANHOLE
FC	FLEXIBLE CONNECTION	SPEC	SPECIFICATION
FCO	FLOOR CLEAN-OUT	SCW	SOFT COLD WATER
FG	FINISHED GRADE	SF	SQUARE FEET
FIN FL	FINISHED FLOOR	ST	STORM
FLA	FULL LOAD AMPERES	TD	TRENCH DRAIN
FM	FORCE MAIN	TDH	TOTAL DYNAMIC HEAD
FOB	FLAT ON BOTTOM	TEMP	TEMPERATURE
FOT	FLAT ON TOP	TYP	TYPICAL
FPM	FEET PER MINUTE	U.N.O.	UNLESS NOTED OTHERWISE
FPS	FEET PER SECOND	V	VENT LINE
FU	FIXTURE UNIT	VLV	VALVE
GA	GAUGE	VTR	VENT THRU ROOF
GAL	GALLONS	W	WIDTH
GPH	GALLONS PER HOUR	W/	WITH
GPM	GALLONS PER MINUTE	W/O	WITHOUT
H	HEIGHT	WC	WATER COLUMN
HB	HOSE BIBB	WCO	WALL CLEAN-OUT
H2O	WATER	WG	WATER GAUGE
HD	HEAD	WP	WORKING PRESSURE
HORIZ	HORIZONTAL	WSFU	WATER SUPPLY FIXTURE UNITS
HP	HORSEPOWER		
HW	HOT WATER SUPPLY		
HWR	HOT WATER RETURN		
HR	HOUR		

PLUMBING FIXTURE SCHEDULE

FIXTURE NO.	FIXTURE TYPE	WASTE CONN.	TRAP	VENT CONN.	C.W. CONN.	H.W. CONN.	MANUFACTURER / MODEL #	DESCRIPTION
WC-1	WATER CLOSET	3"	INTEG.	2"	1-1/2"	-	AMERICAN STANDARD 2234001.020	MADERA 15" RIM HEIGHT, 1.6 GPF, TOP SPUD FLOOR MOUNT VITREOUS CHINA, SIPHON JET, 6047161.002 MANUAL FLUSH VALVE, BEMIS 1955SSC STATITE SEAT
WC-2	WATER CLOSET ADA	3"	INTEG.	2"	1-1/2"	-	AMERICAN STANDARD 3043001.020	MADERA 16-1/2" RIM HEIGHT, 1.6 GPF, TOP SPUD FLOOR MOUNT VITREOUS CHINA, SIPHON JET, 6047161.002 MANUAL FLUSH VALVE, BEMIS 1955SSC STATITE SEAT
UR-1	URINAL	2"	INTEG	1-1/2"	1"	-	AMERICAN STANDARD 6601012.020	LYNBROOK, ADA MOUNTING RIM HEIGHT, WALL HUNG BLOWOUT TYPE, 1.0GPF, 1 1/4" TOP SPUD, VITREOUS CHINA, MANUAL FLUSH VALVE AM STD 6045601.002. PROVIDE MANUFACTURER RECOMMENDED CARRIER.
L-1	LAVATORY ADA	2"	2"	2"	1/2"	1/2"	KOHLER K-2005	"KINGSTON" WALL MOUNTED WHITE V.C. LAVATORY WITH FRONT OVERFLOW. FAUCET SHALL BE SINGLE LEVER OPERATED ZURN NO. Z7460-VP-CST CHROME PLATE FINISH FAUCET, 2.0 GPM VANDAL RESISTANT AERATOR, REPLACEABLE CERAMIC DISC CARTRIDGE, FIXED GRID DRAIN STRAINER, SEMI CAST BRASS OFFSET TAILPIECE AND P-TRAP WITH C.O. STOPS AND SUPPLIES. PROVIDE TRUEBRO FACTORY CUT LAV SHIELD NO. 2018-AO-UK FOR EXPOSED PIPING. PROVIDE MIFAB MC-41 SERIES FLOOR MOUNTED CONCEALED ARM CARRIER WITH TWO UPRIGHTS. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
S-1	SINK	2"	2"	2"	1/2"	1/2"	ELKAY LRAD-1918	"LUSTERTONE" 6" DEEP 3 HOLE PUNCH, 18 GA. 304 STAINLESS STEEL SELF RIMMING SINK WITH OFF-CENTER REAR DRAIN OPENING. PROVIDE T&S BRASS FAUCET NO. B-866-04 SWIVEL GOOSENECK WITH WRIST BLADE HANDELES, LK-18 FIXED GRID DRAIN STRAINER, WITH OFFSET TAILPIECE. PROVIDE C.P. CAST BRASS P-TRAP WITH C.O., LOOSE KEY STOPS AND SUPPLIES. PROVIDE TRUEBRO NO. 102-EZ INSULATION KIT FOR ADA.
S-2	SINK	2"	2"	2"	1/2"	1/2"	BEST SHEET METAL ADA-2305602056H	60" 3 STATION STAINLESS STEEL TROUGH SINK. INSTALL PER MANUFACTURER'S INSTRUCTION. FAUCET CHICAGO 540-LDGN3AE35ABCP, ADA COMPLIANT. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. FIXED GRID DRAIN STRAINER, WITH OFFSET TAILPIECE. PROVIDE C.P. CAST BRASS P-TRAP WITH C.O., LOOSE KEY STOPS AND SUPPLIES. PROVIDE TRUEBRO NO. 102-EZ INSULATION KIT FOR ADA.
MS-1	MOP SINK	3"	3"	2"	3/4"	3/4"	FIAT MSB 2424	24" x 24" x 10" HIGH MOLDED STONE RECEPTOR, W/ FIAT #830-AA FAUCET MOUNTED IN WALL ABOVE FIXTURE. COMPLETE WITH VACUUM BREAKER, HOSE THREAD OUTLET & BUCKET HOOK, INTEGRAL STOPS AND MOUNTING BRACKET. PROVIDE COMBINATION STAINLESS STEEL DOME STRAINER AND LINT BASKET, 3" CAULKED OUTLET.
EWC-1	ELECTRIC WATER COOLER	2"	2"	2"	1/2"	-	ELKAY EZSTL8C	LOWER BUBBLER 36"AFF; UPPER 41"AFF. WALL MOUNTED CAPACITY TO DELIVER 8 GPH OF 50°F. WATER WITH INLET TEMP. OF 80°F AND ROOM TEMP. OF 90°F., STAINLESS STEEL BASIN & FEWTER VNYL W/ 1/5 HP.,120V, 60 CYCLE, 1 PH. W/ OVERLOAD PROTECTION 1 1/2" P-TRAP STOP VALVE, CORD & PLUG. ZURN #ZY225-BL CAST IRON FLOOR MOUNTED CANRIER FITTING WITH BEARING PLATE.
FD-1	FLOOR DRAIN	3"	3"	2"	-	-	ZURN ZN-415	CAST IRON DRAIN WITH 6" DIAMETER TYPE "B" STRAINER AND 1/2" IPS TRAP PRIMER CONNECTION AND DEEP SEAL TRAP. PROVIDE PROSET SYSTEMS TRAP GUARD INSERT NO. TG33-Z-415.
FD-2	FLOOR DRAIN	3"	3"	2"	-	-	ZURN Z4151-V	FLOOR DRIAN WITH 1" LIP, DURA-COATED CAST IRON BODY, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS, BACKWATER VALVE, AND "TYPE I" POLISHED NICKEL BRONZE STRAINER WITH RAISED FLANGE.
HB-1	HOSE BIB	-	-	-	3/4"	-	CHICAGO 998-RCF	PROVIDE 3/4" FULL PORT BALL VALVE WITH 1/2" MALE END THREADED HOSE CONNECTION. FIELD COORDINATE HOSE BIB EXACT HEIGHT AND LOCATION.
WH-1	WALL HYDRANT	-	-	-	3/4"	-	ZURN Z1346	EXPOSED NON-FREEZE ANTI-SIPHON AUTOMATIC DRAINING WALL FAUCET COMPLETE WITH EXTERIOR CHROME FINISH, BRASS CASING, ANTISIPHON INTEGRAL VACUUM BREAKER, OPERATING ROD WITH FREE-FLOATING COMPRESSION CLOSURE VALVE AND 3/4" HOSE CONNECTION
ESEW-1	EMERGENCY SHOWER AND EYE WASH	2"	2"	2"	3/4"	3/4"	SPEAKMAN OPTIMUS SE-1255 STAINLESS STEEL	COMBINATION SHOWER & EYE-FACE WASH, INDEPENDENT EYEWASH & FACE WASH INTEGRATED INTO ONE, SS BOWL, 1/2" STAY OPEN CHROME PLATED BRASS BALL VALVE, SS PADDLE HANDLE, 8" SS SHOWER HEAD WITH A SELF-DRAINING SYSTEM, 1" CHROME PLATED BRASS STAY-OPEN BALL VALVE AND A HIGHLY VISIBLE YELLOW PULL ROD, ELEVATED DRAIN TO SUPPORT EASIER TESTING, EASILY CONFIGURED FOR ADA, ANSI/ISEA Z358.1 CERTIFIED, OSHA COMPLIANT. PROVIDE SE-950 TEST KIT AND SE-350/SE-356 THERMOSTATIC MIXING VALVE WITH SS CABINET
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	-	-	-	2"	-	WATTS 009QT-FDA	WATTS NO. 009QT-FDA REDUCED PRESS. PRINCIPLE DOUBLE CHECK VALVE WITH INTERMEDIATE ATMOSPHERIC VENT. DRAIN TO FLOOR RECEPTOR. INSTALL AT 36" ABOVE GRADE WITH CLEARANCE FOR SERVICE AND PIPING BRACKETING. PROVIDE SHUT OFF VALVE AND FULL SIZE STRAINER ON INLET AND SHUT OFF VALVE ON OUTLET RISER. TEST AND CERTIFY PER AWWA C-511.
IMB-1	ICE MAKER BOX	-	-	-	1/2"	-	OATY 35486	1/4" TURN BALL VALVE AND SWEAT CONNECTION.
FCO	FINISHED FLOOR CLEANOUT	SEE PLAN	-	-	-	-	ZURN CO2450	ADJUSTABLE FINISHED FLOOR CLEANOUT, PVC BODY WITH GAS AND WATERTIGHT ABS TAPERED THREADED PLUG, AND ROUND NICKEL COVER.
ECO	EXTERIOR CLEANOUT	SEE PLAN	-	-	-	-	ZURN Z-1400-HD	HEAVY TRAFFIC AREA EXTERIOR CLEANOUT WITH ACCESS COVER AND TWO-WAY FITTING. SEE PLANS FOR PIPE SIZE CONNECTION.
GH-1	BOXED GROUND HYDRANT	-	-	-	3/4"	-	J.R. SMITH 5830	GRADE LEVEL, FLUSH-FITTING BOXY HYDRANT. TWO PIPE DESIGN, FLUSH-TYPE, FREEZE RESISTANT HOSE OUTLETS. VANDAL PROOF, OPERATING KEY HYDRANT BOX WITH LID.

ELECTRIC WATER HEATER SCHEDULE

UNIT #	LOCATION	GALLONS	KW	FIRST HOUR RATE	VOLTAGE/ PHASE	DIMENSIONS	APPROX. SHIP WT. (LBS)	MANUFACTURER		NOTES	UEF
								MFG	MODEL #		
EWH-1	-	28	4.5	40	208V - 1	31-1/4" H x 24" D	115	A.O. SMITH	ENL-30	SEE BELOW	.90

NOTES:

1. PROVIDE WATER HEATER WITH PROPERLY SIZED EXPANSION TANK AND ALL GAUGES, HEAT TRAPS, THERMOSTATS, THERMO EXPANSION VALVE, TEMPERATURE AND PRESSURE RELIEF VALVE AND SHUT-OFF VALVES AS REQUIRED BY LOCAL CODES AND MFG'S RECOMMENDATIONS.
2. PROVIDE MINIMUM 2-INCH DEEP 24 GAUGE GALVANIZED SHEET METAL OR 60 MIL IMPACT-RESISTANT PLASTIC DRAIN PAN. DO NOT USE PLASTIC IN PLENUMS.
3. WATER HEATERS, AS SPECIFIED, COMPLY WITH LOUISIANA BUILDING CODE. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. MODELS ENDING IN "B" ARE SHIPPED WITH AN INSULATION BLANKET.

RECIRCULATING PUMP SCHEDULE

MARK	LOCATION	GPM	HEAD FT. H20	CONN. SIZE		MOTOR DATA				SELECTION BASED ON:		REMARKS
				INLET	OUTLET	HP	RPM	VOLT	PH.	MANUFACTURER	MODEL	
HWRP-1	IN-LINE	5	15	3/4"	3/4"	1/11	3450	120	1PH	BELL & GOSSETT	602S	PROVIDE AQUASTAT

PIPING MATERIAL SCHEDULE

SERVICE	MATERIAL
COMPRESSED AIR	GALVANIZED OR COPPER, COORDINATE WITH OWNER
COLD WATER	SEE SPECS NEXT SHEETS
HOT WATER	SEE SPECS NEXT SHEETS
SANITARY	SEE SPECS NEXT SHEETS
VENT	SEE SPECS NEXT SHEETS

NOTE:

SCHEDULE 40 DWV PVC SHALL NOT BE USED IN RETURN AIR PLENUMS WHERE CEILING PLENUMS ARE USED FOR RETURN AIR. CONTRACTOR SHALL ONLY USE BELL AND SPIGOT SERVICE WEIGHT CAST IRON PIPE.

OIL SEPARATOR SIZING CALCULATION:

WHERE AUTO-MOBILES ARE SERVICED, GREASED, REPAIRED OR WASHED OR WHERE GASOLINE IS DISPENSED, OIL SEPARATORS SHALL HAVE A CAPACITY OF NOT LESS THAN 6 CUBIC FEET FOR THE FIRST 100 SQUARE FEET OF AREA TO BE DRAINED, PLUS 1 CUBIC FOOT FOR EACH ADDITIONAL 100 SQUARE FEET OF AREA TO BE DRAINED INTO THE SEPARATOR. *PER LOUISIANA PLUMBING CODE (2021), 1003.4.2.2 GARAGES AND SERVICE STATIONS.

V. CAPACITY = (((A-100)/ 100) +6) XXX = CU.FT.
CU.FT TO GALLONS = 7.3 X 7.481 = GALLONS
A = 230 SQ.FT.; V = 54.60 GALLONS

IE - PLUMBING SHEET LIST

Sheet Number	Sheet Name	Project Issue Date	Project Status	Current Revision	Current Revision Date	Current Revision Description	Sheet Discipline
P0.01	PLUMBING LEGEND, NOTES & ABBREVIATION	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P0.02	PLUMBING SPECS	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P0.03	PLUMBING SPECS	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P0.04	PLUMBING SPECS	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P0.10	SITE PLAN - PLUMBING	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P2.10	BUILDING A FLOOR PLAN - PLUMBING	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P2.11	BUILDING B FLOOR PLANS - PLUMBING	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P3.10	BUILDING A ROOF PLAN - PLUMBING	10/03/2025	ISSUED FOR PERMIT				PLUMBING
P6.01	PLUMBING DETAILS	10/03/2025	ISSUED FOR PERMIT				PLUMBING
Grand total: 9							

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description

Submissions & Revisions

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Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

PLUMBING LEGEND, NOTES & ABBREVIATION

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:

Drawing No.

P0.01

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SECTION 220500 - BASIC MECHANICAL MATERIALS AND METHODS

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. Piping materials and installation instructions common to most piping systems.
2. Transition fittings.
3. Dielectric fittings.
4. Mechanical sleeve seals.
5. Sleeves.
6. Escutcheons.
7. Grout.
8. Mechanical demolition.
9. Equipment installation requirements common to equipment sections.
10. Painting and finishing.
11. Concrete bases.
12. Supports and anchorages.

1.2 SUBMITTALS

A. Product Data: For the following:

1. Transition fittings.
2. Dielectric fittings.
3. Mechanical sleeve seals.
4. Escutcheons.

1.3 DELIVERY, STORAGE, AND HANDLING

A. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.

B. Store plastic pipes protected from direct sunlight. Support to prevent sagging and bending.

1.4 COORDINATION

A. Arrange for pipe spaces, chases, slots, and openings in building structure during progress of construction, to allow for mechanical installations.

B. Coordinate installation of required supporting devices and set sleeves in poured-in-place concrete and other structural components as they are constructed.

C. Coordinate requirements for access panels and doors for mechanical items requiring access that are concealed behind finished surfaces. Access panels and doors are specified in Division 8 Section "Access Doors and Frames."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The following requirements apply for product selection:

1. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified.

2.2 PIPE, TUBE, AND FITTINGS

A. Refer to individual Division 22 piping Sections for pipe, tube, and fitting materials and joining methods.

B. Pipe Threads: ASME B1.20.1 for factory-threaded pipe and pipe fittings.

2.3 JOINING MATERIALS

A. Refer to individual Division 22 piping Sections for special joining materials not listed below.

B. Pipe-Flange Gasket Materials: Suitable for chemical and thermal conditions of piping system contents.

1. ASME B16.21, nonmetallic, flat, asbestos-free, 1/8-inch (3.2-mm) maximum thickness unless thickness or specific material is indicated.
   a. Full-Face Type: For flat-face, Class 125, cast-iron and cast-bronze flanges.
   b. Narrow-Face Type: For raised-face, Class 250, cast-iron and steel flanges.
2. AWWA C110, rubber, flat face, 1/8 inch (3.2 mm) thick, unless otherwise indicated; and full-face or ring type, unless otherwise indicated.

C. Flange Bolts and Nuts: ASME B18.2.1, carbon steel, unless otherwise indicated.

D. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer, unless otherwise indicated.

H. Solvent Cements for Joining Plastic Piping:

1. ABS Piping: ASTM D 2235.
2. CPVC Piping: ASTM F 493.
3. PVC Piping: ASTM D 2564. Include primer according to ASTM F 656.
4. PVC to ABS Piping Transition: ASTM D 3138.

I. Fiberglass Pipe Adhesive: As furnished or recommended by pipe manufacturer.

2.4 MECHANICAL SLEEVE SEALS

A. Description: Modular sealing element unit, designed for field assembly, to fill annular space between pipe and sleeve.

1. Sealing Elements: EPDM interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.
2. Pressure Plates: Carbon steel. Include two for each sealing element.
3. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements. Include one for each sealing element.

2.5 SLEEVES

A. Galvanized-Steel Sheet: 0.0239-inch (0.6-mm) minimum thickness; round tube closed with welded longitudinal joint.

B. Steel Pipe: ASTM A 53, Type E, Grade B, Schedule 40, galvanized, plain ends.

C. Cast Iron: Cast or fabricated "wall pipe" equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop, unless otherwise indicated.

D. Stack Sleeve Fittings: Manufactured, cast-iron sleeve with integral clamping flange. Include clamping ring and bolts and nuts for membrane flashing.

1. Underdeck Clamp: Clamping ring with set screws.

PVC sleeves in first two paragraphs below may be prohibited by fire authorities having jurisdiction.

E. Molded PVC: Permanent, with nailing flange for attaching to wooden forms.

F. PVC Pipe: ASTM D 1785, Schedule 40.

G. Molded PE/Reusable, PE, tapered-cup shaped, and smooth-outer surface with nailing flange for attaching to wooden forms.

2.6 ESCUTCHEONS

A. Description: Manufactured wall and ceiling escutcheons and floor plates, with an ID to closely fit around pipe, tube, and insulation of insulated piping and an OD that completely covers opening.

B. One-Piece, Deep-Pattern Type: Deep-drawn, box-shaped brass with polished chrome-plated finish.

C. One-Piece, Cast-Brass Type: With set screw.

1. Finish: Polished chrome-plated.

D. Split-Casting, Cast-Brass Type: With concealed hinge and set screw.

1. Finish: Polished chrome-plated.

E. One-Piece, Stamped-Steel Type: With set screw or spring clips and chrome-plated finish.

F. Split-Plate, Stamped-Steel Type: With concealed hinge, set screw or spring clips, and chrome-plated finish.

G. One-Piece, Floor-Plate Type: Cast-iron floor plate.

H. Split-Casting, Floor-Plate Type: Cast brass with concealed hinge and set screw.

2.7 GROUT

A. Description: ASTM C 1107, Grade B, nonshrink and nonmetallic, dry hydraulic-cement grout.

1. Characteristics: Post-hardening, volume-adjusting, nonstaining, noncorrosive, nongaseous, and recommended for interior and exterior applications.
2. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.
3. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 MECHANICAL DEMOLITION

A. Refer to Division 1 Sections "Cutting and Patching" and "Selective Demolition" for general demolition requirements and procedures.

B. Disconnect, demolish, and remove mechanical systems, equipment, and components indicated to be removed.

1. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
2. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
3. Ducts to Be Removed: Remove portion of ducts indicated to be removed and plug remaining ducts with same or compatible ductwork material.
4. Ducts to Be Abandoned in Place: Cap or plug ducts with same or compatible ductwork material.
5. Equipment to Be Removed: Disconnect and cap services and remove equipment.
6. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.
7. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

C. If pipe, insulation, or equipment to remain is damaged in appearance or is unserviceable, remove damaged or unserviceable portions and replace with new products of equal capacity and quality.

3.2 PIPING SYSTEMS - COMMON REQUIREMENTS

A. Install piping according to the following requirements and Division 22 Sections specifying piping systems.

B. Drawings, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.

C. Install piping in concealed locations, unless otherwise indicated and except in equipment rooms and service areas.

D. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.

E. Install piping above accessible ceilings to allow sufficient space for ceiling panel removal.

F. Install piping to permit valve servicing.

G. Install piping at indicated slopes.

H. Install piping free of sags and bends.

I. Install fittings for changes in direction and branch connections.

J. Install piping to allow application of insulation.

K. Select system components with pressure rating equal to or greater than system operating pressure.

L. Install escutcheons for penetrations of walls, ceilings, and floors according to the following:

1. New Piping:
   a. Piping with Fitting or Sleeve Protruding from Wall: One-piece, deep-pattern type.
   b. Chrome-Plated Piping: One-piece, cast-brass type with polished chrome-plated finish.
   c. Insulated Piping: One-piece, stamped-steel type with spring clips.
   d. Bare Piping at Wall and Floor Penetrations in Finished Spaces: One-piece, cast-brass type with polished chrome-plated finish.
   e. Bare Piping at Wall and Floor Penetrations in Finished Spaces: One-piece, stamped-steel type.
   f. Bare Piping at Ceiling Penetrations in Finished Spaces: One-piece cast-brass type with polished chrome-plated finish.
   g. Bare Piping in Unfinished Service Spaces: One-piece, cast-brass type with polished chrome-plated finish.
   h. Bare Piping in Equipment Rooms: One-piece, cast-brass type.
   i. Bare Piping at Floor Penetrations in Equipment Rooms: One-piece, floor-plate type.

M. Sleeves are not required for core-drilled holes.

N. Permanent sleeves are not required for holes formed by removable PE sleeves.

O. Install sleeves for pipes passing through concrete and masonry walls and concrete floor and roof slabs.

P. Install sleeves for pipes passing through concrete and masonry walls, gypsum-board partitions, and concrete floor and roof slabs.

1. Cut sleeves to length for mounting flush with both surfaces.
   a. Exception: Extend sleeves installed in floors of mechanical equipment areas or other wet areas 2 inches (50 mm) above finished floor level. Extend cast-iron sleeve fittings below floor slab as required to secure clamping ring if ring is specified.
2. Install sleeves in new walls and slabs as new walls and slabs are constructed.
3. Install sleeves that are large enough to provide 1/4-inch (6.4-mm) annular clear space between sleeve and pipe or pipe insulation. Use the following sleeve materials:
   a. Steel Pipe Sleeves: For pipes smaller than NPS 6 (DN 150).
   b. Steel Sheet Sleeves: For pipes NPS 6 (DN 150) and larger, penetrating gypsum-board partitions.
   c. Stack Sleeve Fittings: For pipes penetrating floors with membrane waterproofing. Secure flashing between clamping flanges. Install section of cast-iron soil pipe to extend sleeve to 2 inches (50 mm) above finished floor level. Refer to Division 7 Section "Sheet Metal Flashing and Trim" for flashing.
      1) Seal space outside of sleeve fittings with grout.
   4. Except for underground wall penetrations, seal annular space between sleeve and pipe or pipe insulation, using joint sealants appropriate for size, depth, and location of joint. Refer to Division 7 Section "Joint Sealants" for materials and installation.

Q. Aboveground, Exterior-Wall Pipe Penetrations: Seal penetrations using sleeves and mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
   1. Install steel pipe for sleeves smaller than 6 inches (150 mm) in diameter.
   2. Install cast-iron "wall pipes" for sleeves 6 inches (150 mm) and larger in diameter.
   3. Mechanical Sleeve Seal Installation: Select type and number of sealing elements required for pipe material and size. Position pipe in center of sleeve. Assemble mechanical sleeve seals and install in annular space between pipe and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

R. Underground, Exterior-Wall Pipe Penetrations: Install cast-iron "wall pipes" for sleeves. Seal pipe penetrations using mechanical sleeve seals. Select sleeve size to allow for 1-inch (25-mm) annular clear space between pipe and sleeve for installing mechanical sleeve seals.
   1. Mechanical Sleeve Seal Installation: Select type and number of sealing elements required for pipe material and size. Position pipe in center of sleeve. Assemble mechanical sleeve seals and install in annular space between pipe and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

S. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Refer to Division 7 Section "Through-Penetration Firestop Systems" for materials.

T. Verify final equipment locations for roughing-in.

U. Refer to equipment specifications in other Sections of these Specifications for roughing-in requirements.

SECTION 220513 - COMMON MOTOR REQUIREMENTS FOR PLUMBING EQUIPMENT

PART 1 - PRODUCTS

2.1 GENERAL MOTOR REQUIREMENTS

A. Comply with requirements in this Section except when stricter requirements are specified in plumbing equipment schedules or Sections.

B. Comply with NEMA MG 1 unless otherwise indicated.

C. Comply with IEEE 841 for severe-duty motors.

2.2 MOTOR CHARACTERISTICS

A. Duty: Continuous duty at ambient temperature of 40 deg C and at altitude of 3300 feet above sea level.

B. Capacity and Torque Characteristics: Sufficient to start, accelerate, and operate connected loads at designated speeds, at installed altitude and environment, with indicated operating sequence, and without exceeding nameplate ratings or considering service factor.

2.3 POLYPHASE MOTORS

A. Description: NEMA MG 1, Design B, medium induction motor.

B. Efficiency: Energy efficient, as defined in NEMA MG 1.

C. Service Factor: 1.15.

D. Multispeed Motors: Variable torque.
   1. For motors with 2:1 speed ratio, consequent pole, single winding.
   2. For motors with other than 2:1 speed ratio, separate winding for each speed.

E. Multispeed Motors: Separate winding for each speed.

F. Rotor: Random-wound, squirrel cage.
NEMA MG 1 recommends ball bearings for polyphase motors 500 hp and smaller due to their ability to sustain coupling end-play and rotor float. Some smaller integral and fractional polyphase motors might have sleeve bearings for lower cost and quieter operation, especially if direct coupled and not subjected to belted loads. For motor-bearing requirements for specific equipment, specify those requirements in motorized equipment Sections. Coordinate with equipment suppliers for bearing types in smaller motors. Specify bearing-life requirements, according to ABMA 9, in motor-driven equipment Sections.

G. Bearings: Regreasable, shielded, antifriction ball bearings suitable for radial and thrust loading.

H. Temperature Rise: Match insulation rating.

I. Insulation: Class F.

J. Code Letter Designation:
   1. Motors 15 HP and Larger: NEMA starting Code F or Code G.
   2. Motors Smaller than 15 HP: Manufacturer's standard starting characteristic.

K. Enclosure Material: Cast iron for motor frame sizes 324T and larger; rolled steel for motor frame sizes smaller than 324T.

2.5 SINGLE-PHASE MOTORS

A. Motors larger than 1/20 hp shall be one of the following, to suit starting torque and requirements of specific motor application:
See Evaluations for a comparison of single-phase motor types.
   1. Permanent-split capacitor.
   2. Split phase.
   3. Capacitor start, inductor run.
   4. Capacitor start, capacitor run.

B. Multispeed Motors: Variable-torque, permanent-split-capacitor type.

C. Bearings: Prelubricated, antifriction ball bearings or sleeve bearings suitable for radial and thrust loading.

D. Motors 1/20 HP and Smaller: Shaded-pole type.

E. Thermal Protection: Internal protection to automatically open power supply circuit to motor when winding temperature exceeds a safe value calibrated to temperature rating of motor insulation. Thermal-protection device shall automatically reset when motor temperature returns to normal range.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 220513

3.3 PIPING JOINT CONSTRUCTION

A. Join pipe and fittings according to the following requirements and Division 22 Sections specifying piping systems.

B. Ream ends of pipes and tubes and remove burrs. Bevel or groove plain ends of steel pipe.

C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

D. Soldered Joints: Apply ASTM B 813, water-flushable flux, unless otherwise indicated, to tube end. Construct joints according to ASTM B 828 or CDA's "Copper Tube Handbook," using lead-free solder alloy complying with ASTM B 32.

E. Brazed Joints: Construct joints according to AWS's "Brazing Handbook," "Pipe and Tube" Chapter, using copper-phosphorus brazing filler metal complying with AWS A5.8.

F. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:

1. Apply appropriate tape or thread compound to external pipe threads unless dry seal threading is specified.
2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.

G. Welded Joints: Construct joints according to AWS D10.12, using qualified processes and welding operators according to Part 1 "Quality Assurance" Article.

H. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.

I. Grooved Joints: Grooved joint piping systems shall be installed in accordance with the manufacturer's guidelines and recommendations. All grooved couplings, fittings, valves and specialities shall be supplied by a single manufacturer. Grooving tools shall be supplied by the same manufacturer as the grooved components. The gasket style and elastomeric material (grade) shall be verified as suitable for the intended service as specified. Gaskets shall be supplied by the grooved coupling manufacturer. Grooved-end shall be clean and free from indentations, projections and roll marks in the area from pipe end to groove. A factory trained field representative shall provide on-site training to contractor's field personnel in the installation of grooved piping products. (A distributor's representative is not considered qualified to conduct the training.) Factory trained representative shall periodically review the product installation. Contractor shall remove and replace any improperly installed products.

J. Plastic Piping Solvent-Cement Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:

1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements.
2. ABS Piping: Join according to ASTM D 2235 and ASTM D 2661 Appendixes.
3. CPVC Piping: Join according to ASTM D 2846/D 2846M Appendix.
4. PVC Pressure Piping: Join schedule number ASTM D 1785, PVC pipe and PVC socket fittings according to ASTM D 2672. Join other-than-schedule-number PVC pipe and socket fittings according to ASTM D 2855.
5. PVC Nonpressure Piping: Join according to ASTM D 2855.
6. PVC to ABS Nonpressure Transition Fittings: Join according to ASTM D 3138 Appendix.

K. Plastic Pressure Piping Gasketed Joints: Join according to ASTM D 3139.

L. Plastic Nonpressure Piping Gasketed Joints: Join according to ASTM D 3212.

M. PE Piping Heat-Fusion Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join according to ASTM D 2657.

1. Plain-End Pipe and Fittings: Use butt fusion.
2. Plain-End Pipe and Socket Fittings: Use socket fusion.

N. Fiberglass Bonded Joints: Prepare pipe ends and fittings, apply adhesive, and join according to pipe manufacturer's written instructions.

3.4 PIPING CONNECTIONS

A. Make connections according to the following, unless otherwise indicated:

1. Install unions, in piping NPS 2 (DN 50) and smaller, adjacent to each valve and at final connection to each piece of equipment.
2. Install flanges, in piping NPS 2-1/2 (DN 65) and larger, adjacent to flanged valves and at final connection to each piece of equipment.
3. Install Victaulic couplings, in piping NPS 2 (DN 50) and larger, adjacent to grooved-end valves and at final connection to each piece of equipment.

Edit dielectric connection types in two subparagraphs below for each fluid.

4. Dry Piping Systems: Install dielectric unions and flanges to connect piping materials of dissimilar metals.
5. Wet Piping Systems: Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metal.

3.5 PAINTING

Division 9 Sections specify paint products for various surfaces (e.g., ferrous and nonferrous metals and insulation jackets), mechanical items to be field painted, application methods, and coating systems (number of prime and finish coatings and coating thicknesses). Coordinate these requirements with Architect to ensure that appropriate painting requirements are retained in these Division 9 Sections.

A. Painting of mechanical systems, equipment, and components is specified in Division 9.

B. Damage and Touchup: Repair marred and damaged factory-painted finishes with materials and procedures to match original factory finish.

3.6 CONCRETE BASES

Coordinate concrete work in this Article with Division 3 Section "Cast-in-Place Concrete" or "Cast-in-Place Concrete (Limited Applications)."
Coordinate below with Division 15 Sections specifying equipment. Indicate dowel rod quantity, size, and spacing on Drawings.

A. Concrete Bases: Anchor equipment to concrete base according to equipment manufacturer's written instructions and according to seismic codes at Project.

1. Construct concrete bases of dimensions indicated, but not less than 4 inches (100 mm) larger in both directions than supported unit.
2. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch (450-mm) centers around the full perimeter of the base.
3. Install epoxy-coated anchor bolts for supported equipment that extend through concrete base, and anchor into structural concrete floor.
4. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
5. Install anchor bolts to elevations required for proper attachment to supported equipment.
6. Install anchor bolts according to anchor-bolt manufacturer's written instructions.
7. Use minimum 3000-psi (20.7-MPa), 28-day compressive-strength concrete and reinforcement as specified in Division 3.

3.7 ERECTION OF WOOD SUPPORTS AND ANCHORAGES

A. Cut, fit, and place wood grounds, nailers, blocking, and anchorages to support, and anchor mechanical materials and equipment.

B. Select fastener sizes that will not penetrate members if opposite side will be exposed to view or will receive finish materials. Tighten connections between members. Install fasteners without splitting wood members.

C. Attach to substrates as required to support applied loads.

3.8 GROUTING

A. Mix and install grout for mechanical equipment base bearing surfaces, pump and other equipment base plates, and anchors.

B. Clean surfaces that will come into contact with grout.

C. Provide forms as required for placement of grout.

D. Avoid air entrapment during placement of grout.

E. Place grout, completely filling equipment bases.

F. Place grout on concrete bases and provide smooth bearing surface for equipment.

G. Place grout around anchors.

H. Cure placed grout.

END OF SECTION 220500

SECTION 220519 - METERS AND GAGES FOR PLUMBING PIPING

Verify that Section titles referenced in this Section are correct for this Project's Specifications; Section titles may have changed.

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following meters and gages for mechanical systems:
Adjust list below to suit Project.

1. Thermometers.
2. Gages.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated; include performance curves.

B. Shop Drawings: Schedule indicating manufacturer's number, scale range, and location for each.

C. Product Certificates: For each type of thermometer, gage and flowmeter, signed by product manufacturer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. The following requirements apply to product selection:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PLASTIC-CASE, LIQUID-IN-GLASS THERMOMETERS

A. Manufacturers:

1. Ernst Gage Co.
2. Eugene Ernst Products Co.
3. Marsh Bellofram.
4. Miljoco Corp.
5. Trerice, H. O. Co.
6. Weksler Instruments Operating Unit; Dresser Industries; Instrument Div.
7. Winters Instruments.

B. Case: Plastic, 9 inches long.

C. Tube: Red or blue reading, mercury or organic-liquid filled, with magnifying lens.

D. Tube Background: Satin-faced, nonreflective aluminum with permanently etched scale markings.

E. Window: Glass or plastic.

F. Connector: Adjustable type, 180 degrees in vertical plane, 360 degrees in horizontal plane, with locking device.

G. Stem: Metal, for thermowell installation and of length to suit installation.

H. Accuracy: Plus or minus 1 percent of range or plus or minus 1 scale division to maximum of 1.5 percent of range.

2.3 THERMOWELLS

A. Manufacturers:

1. AMETEK, Inc.; U.S. Gauge Div.
2. Ashcroft Commercial Instrument Operations; Dresser Industries; Instrument Div.
3. Palmer - Wahl Instruments Inc.
4. Tel-Tru Manufacturing Company.
5. Trerice, H. O. Co.
6. Weiss Instruments, Inc.
7. Weksler Instruments Operating Unit; Dresser Industries; Instrument Div.

B. Manufacturers: Same as manufacturer of thermometer being used.

C. Description: Pressure-tight, socket-type metal fitting made for insertion into piping and of type, diameter, and length required to hold thermometer.

2.4 PRESSURE GAGES

Coordinate first paragraph and list below with Part 2 "Manufacturers" Article. Retain "Available" for nonproprietary and delete for semiproprietary specifications.

A. Manufacturers:

1. AMETEK, Inc.; U.S. Gauge Div.
2. Ashcroft Commercial Instrument Operations; Dresser Industries; Instrument Div.
3. Palmer - Wahl Instruments Inc.
4. Trerice, H. O. Co.
5. Weiss Instruments, Inc.
6. Weksler Instruments Operating Unit; Dresser Industries; Instrument Div.

B. Direct-Mounting, Dial-Type Pressure Gages: Indicating-dial type complying with ASME B40.100.

1. Case: Liquid-filled type, drawn steel or cast aluminum 6-inch diameter.
2. Pressure-Element Assembly: Bourdon tube, unless otherwise indicated.
3. Pressure Connection: Brass, NPS 1/4, bottom-outlet type unless back-outlet type is indicated.
4. Movement: Mechanical, with link to pressure element and connection to pointer.
5. Dial: Satin-faced, nonreflective aluminum with permanently etched scale markings.
6. Pointer: Red metal.
7. Window: Glass.
8. Ring: Metal
9. Accuracy: Grade B, plus or minus 2 percent of middle half scale.
10. Vacuum-Pressure Range: 30 in. Hg of vacuum to 15 psig of pressure.
11. Range for Fluids under Pressure: Two times operating pressure.

D. Pressure-Gage Fittings:

1. Valves: NPS 1/4 brass or stainless-steel needle type.
2. Syphons: NPS 1/4 coil of brass tubing with threaded ends.
3. Snubbers: ASME B40.5, NPS 1/4 brass bushing with corrosion-resistant, porous-metal disc of material suitable for system fluid and working pressure.

2.5 TEST PLUGS

A. Manufacturers:

1. Flow Design, Inc.
2. MG Piping Products Co.
3. National Meter, Inc.
4. Peterson Equipment Co., Inc.
5. Sisco Manufacturing Co.
6. Trerice, H. O. Co.
7. Watts Industries, Inc.; Water Products Div.

B. Description: Corrosion-resistant brass or stainless-steel body with core inserts and gasketed and threaded cap, with extended stem for units to be installed in insulated piping.

C. Minimum Pressure and Temperature Rating: 500 psig at 200 deg F.

D. Core Inserts: One or two self-sealing rubber valves.

1. Insert material for air, water, oil, or gas service at 20 to 200 deg F shall be CR.
2. Insert material for air or water service at minus 30 to plus 275 deg F shall be EPDM.

2.6 FLOW INDICATORS

A. Manufacturers:

1. Brooks Instrument Div.; Emerson Electric Co.
2. Dwyer Instruments, Inc.
3. McCrometer, Inc.
4. OPW Engineered Systems; Dover Corp.

B. Description: Instrument for installation in piping systems for visual verification of flow.

C. Construction: Bronze or stainless-steel body; with sight glass and plastic pelton-wheel indicator, and threaded or flanged ends.

D. Pressure Rating: 125 psig.

E. Temperature Rating: 200 deg F.

F. End Connections for NPS 2 and Smaller: Threaded.

G. End Connections for NPS 2-1/2 and Larger: Flanged.

PART 3 - EXECUTION

3.1 THERMOMETER APPLICATIONS

A. Install liquid-in-glass thermometers in the following locations:

1. Inlet and outlet of each hydronic zone.
2. Inlet and outlet of each hydronic boiler and chiller.

B. Install liquid-filled-case-type, vapor-actuated dial thermometers at suction and discharge of each pump.

C. Provide the following temperature ranges for thermometers:

1. Domestic Hot Water: 30 to 240 deg F, with 2-degree scale divisions.
2. Domestic Cold Water: 0 to 100 deg F, with 2-degree scale divisions.

3.2 GAGE APPLICATIONS

A. Install liquid-filled-case-type pressure gages at suction and discharge of each pump.

3.3 INSTALLATIONS

A. Install test plugs in tees in piping.

END OF SECTION 220519

SECTION 220529 - HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following hangers and supports for mechanical system piping and equipment:
Adjust list below to suit Project.

1. Steel pipe hangers and supports.
2. Trapeze pipe hangers.
3. Metal framing systems.
4. Fastener systems.
5. Equipment supports.

1.2 SUBMITTALS

A. Product Data: For the following:

1. Steel pipe hangers and supports.
2. Thermal-hanger shield inserts.
3. Powder-actuated fastener systems.

B. Shop Drawings: Show fabrication and installation details and include calculations for the following:

1. Trapeze pipe hangers. Include Product Data for components.
2. Metal framing systems. Include Product Data for components.
3. Pipe stands. Include Product Data for components.
4. Equipment supports.

C. Welding certificates.

1.3 QUALITY ASSURANCE

A. Welding: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code--Steel."

B. Welding: Qualify procedures and personnel according to the following:

1. AWS D1.1, "Structural Welding Code--Steel."
2. AWS D1.4, "Structural Welding Code--Reinforcing Steel."

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. In other Part 2 articles where titles below introduce lists, the following requirements apply to product selection:

1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
2. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 STEEL PIPE HANGERS AND SUPPORTS

A. Description: MSS SP-58, Types 1 through 58, factory-fabricated components. Refer to Part 3 "Hanger and Support Applications" Article for where to use specific hanger and support types.

B. Manufacturers:

1. B-Line Systems, Inc.; a division of Cooper Industries.
2. Globe Pipe Hanger Products, Inc.
3. Grinnell Corp.
4. National Pipe Hanger Corporation.
5. PHD Manufacturing, Inc.

C. Galvanized, Metallic Coatings: Pregalvanized or hot dipped.

D. Nonmetallic Coatings: Plastic coating, jacket, or liner.

E. Padded Hangers: Hanger with fiberglass or other pipe insulation pad or cushion for support of bearing surface of piping.

2.3 TRAPEZE PIPE HANGERS

A. Description: MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural-steel shapes with MSS SP-58 hanger rods, nuts, saddles, and U-bolts.

2.4 THERMAL-HANGER SHIELD INSERTS

A. Description: 100-psig- minimum, compressive-strength insulation insert encased in sheet metal shield.

B. Manufacturers:

1. PHS Industries, Inc.
2. Pipe Shields, Inc.
3. Value Engineered Products, Inc.

C. Insulation-Insert Material for Hot Piping: Water-repellent treated, ASTM C 533, Type I calcium silicate

D. For Trapeze or Clamped Systems: Insert and shield shall cover entire circumference of pipe.

E. For Clevis or Band Hangers: Insert and shield shall cover lower 180 degrees of pipe.

F. Insert Length: Extend 2 inches beyond sheet metal shield for piping operating below ambient air temperature.

2.5 FASTENER SYSTEMS

A. Powder-Actuated Fasteners: Threaded-steel stud, for use in hardened portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Manufacturers:
   a. Hilti, Inc.
   b. ITW Ramset/Red Head.
   c. Masternet Fastening Systems, Inc.
   d. Powers Fasteners.

B. Mechanical-Expansion Anchors: Insert-wedge-type stainless steel, for use in hardened portland cement concrete with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

1. Manufacturers:
   a. B-Line Systems, Inc.; a division of Cooper Industries.
   b. Hilti, Inc.
   c. ITW Ramset/Red Head.
   d. Powers Fasteners.

2.7 EQUIPMENT SUPPORTS

A. Description: Welded, shop- or field-fabricated equipment support made from structural-steel shapes.

2.8 MISCELLANEOUS MATERIALS

A. Structural Steel: ASTM A 36/A 36M, steel plates, shapes, and bars; black and galvanized.

B. Grout: ASTM C 1107, factory-mixed and -packaged, dry, hydraulic-cement, nonshrink and nonmetallic grout; suitable for interior and exterior applications.

1. Properties: Nonstaining, noncorrosive, and nongaseous.
2. Design Mix: 5000-psi, 28-day compressive strength.

PART 3 - EXECUTION

3.1 HANGER AND SUPPORT APPLICATIONS

A. Specific hanger and support requirements are specified in Sections specifying piping systems and equipment.

B. Comply with MSS SP-69 for pipe hanger selections and applications that are not specified in piping system Sections.

C. Use hangers and supports with galvanized, metallic coatings for piping and equipment that will not have field-applied finish.

D. Use nonmetallic coatings on hangers and supports for electrolytic protection where attachments are in direct contact with copper tubing.

E. Horizontal-Piping Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated stationary pipes, NPS 1/2 to NPS 30.
2. Steel Pipe Clamps (MSS Type 4): For suspension of cold and hot pipes, NPS 1/2 to NPS 6, if little or no insulation is required.
3. Pipe Hangers (MSS Type 5): For suspension of pipes, NPS 1/2 to NPS 4, to allow off-center closure for hanger installation before pipe erection.
4. Adjustable Swivel Split- or Solid-Ring Hangers (MSS Type 6): For suspension of noninsulated stationary pipes, NPS 3/4 to NPS 8.
5. Adjustable, Steel Band Hangers (MSS Type 7): For suspension of noninsulated stationary pipes, NPS 1/2 to NPS 8.
6. Split Pipe-Ring with or without Turnbuckle-Adjustment Hangers (MSS Type 11): For suspension of noninsulated stationary pipes. NPS 3/8 to NPS 8.
7. Extension Hinged or 2-Bolt Split Pipe Clamps (MSS Type 12): For suspension of noninsulated stationary pipes, NPS 3/8 to NPS 3.
8. U-Bolts (MSS Type 24): For support of heavy pipes, NPS 1/2 to NPS 6.

F. Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Extension Pipe or Riser Clamps (MSS Type 8): For support of pipe risers, NPS 3/4 to NPS 8.
2. Carbon- or Alloy-Steel Riser Clamps (MSS Type 42): For support of pipe risers, NPS 3/4 to NPS 8, if longer ends are required for riser clamps.

G. Hanger-Rod Attachments: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel Turnbuckles (MSS Type 13): For adjustment up to 6 inches for heavy loads.
2. Swivel Turnbuckles (MSS Type 15): For use with MSS Type 11, split pipe rings.
3. Malleable-Iron Sockets (MSS Type 16): For attaching hanger rods to various types of building attachments.

H. Saddles and Shields: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Steel Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
2. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation.

I. Spring Hangers and Supports: Unless otherwise indicated and except as specified in piping system Sections, install the following types:

1. Restraint-Control Devices (MSS Type 47): Where indicated to control piping movement.
2. Spring Cushions (MSS Type 48): For light loads if vertical movement does not exceed 1-1/4 inches.
3. Spring-Cushion Roll Hangers (MSS Type 49): For equipping Type 41 roll hanger with springs.
4. Constant Supports: For critical piping stress and if necessary to avoid transfer of stress from one support to another support, critical terminal, or connected equipment. Include auxiliary stops for erection, hydrostatic test, and load-adjustment capability. These supports include the following types:
   a. Horizontal (MSS Type 54): Mounted horizontally.
   b. Vertical (MSS Type 55): Mounted vertically.
   c. Trapeze (MSS Type 56): Two vertical-type supports and one trapeze member.

K. Comply with MSS SP-69 for trapeze pipe hanger selections and applications that are not specified in piping system Sections.

L. Comply with MFMA-102 for metal framing system selections and applications that are not specified in piping system Sections.

M. Use powder-actuated fasteners or mechanical-expansion anchors instead of building attachments where required in concrete construction.

N. Use pipe positioning systems in pipe spaces behind plumbing fixtures to support supply and waste piping for plumbing fixtures.

3.2 HANGER AND SUPPORT INSTALLATION

A. Steel Pipe Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Install hangers, supports, clamps, and attachments as required to properly support piping from building structure.

B. Trapeze Pipe Hanger Installation: Comply with MSS SP-69 and MSS SP-89. Arrange for grouping of parallel runs of horizontal piping and support together on field-fabricated trapeze pipe hangers.

1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size or install intermediate supports for smaller diameter pipes as specified above for individual pipe hangers.
2. Field fabricate from ASTM A 36/A 36M, steel shapes selected for loads being supported. Weld steel according to AWS D1.1.

C. Fastener System Installation:

1. Install powder-actuated fasteners for use in lightweight concrete or concrete slabs less than 4 inches thick in concrete after concrete is placed and completely cured. Use operators that are licensed by powder-actuated tool manufacturer. Install fasteners according to powder-actuated tool manufacturer's operating manual.
2. Install m

SECTION 220700 - PLUMBING INSULATION

PART 1 - GENERAL

1.1 SUBMITTALS

A. Product Data: For each type of product indicated. Include thermal conductivity, thickness, and jackets (both factory and field applied, if any).
B. Shop Drawings:
1. Detail application of protective shields, saddles, and inserts at hangers for each type of insulation and hanger.
2. Detail insulation application at elbows, fittings, flanges, valves, and specialties for each type of insulation.
3. Detail removable insulation at piping specialties, equipment connections, and access panels.
4. Detail application of field-applied jackets.
5. Detail field application for each equipment type.
C. Qualification Data: For qualified Installer.
D. Material Test Reports: From a qualified testing agency acceptable to authorities having jurisdiction indicating, interpreting, and certifying test results for compliance of insulation materials, sealers, attachments, cements, and jackets, with requirements indicated. Include dates of tests and test methods employed.
E. Field quality-control reports.

PART 2 - PRODUCTS

2.1 INSULATION MATERIALS

A. Products shall not contain asbestos, lead, mercury, or mercury compounds.
B. Products that come in contact with stainless steel shall have a leachable chloride content of less than 50 ppm when tested according to ASTM C 871.
C. Insulation materials for use on austenitic stainless steel shall be qualified as acceptable according to ASTM C 795.
D. Foam insulation materials shall not use CFC or HCFC blowing agents in the manufacturing process.
E. Cellular Glass: Inorganic, incombustible, foamed or cellulated glass with annealed, rigid, hermetically sealed cells. Factory-applied jacket requirements are specified in "Factory-Applied Jackets" Article.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Cell-U-Foam Corporation; Ultra-CUF.
b. Pittsburgh Corning Corporation; Foamglas Super K.
2. Block Insulation: ASTM C 552, Type I.
3. Special-Shaped Insulation: ASTM C 552, Type III.
4. Board Insulation: ASTM C 552, Type IV.
5. Preformed Pipe Insulation without Jacket: Comply with ASTM C 552, Type II, Class 1.
6. Preformed Pipe Insulation with Factory-Applied ASJ or ASJ-SSL: Comply with ASTM C 552, Type II, Class 2.
F. Flexible Elastomeric: Closed-cell, sponge- or expanded-rubber materials. Comply with ASTM C 534, Type I for tubular materials and Type II for sheet materials.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Aeroflex USA Inc.; Aerocel.
b. Armacell LLC; AP Armaflex.
c. RBX Corporation; Insul-Sheet 1800 and Insul-Tube 180.

2.2 ADHESIVES

A. Cellular-Glass, Phenolic, Polyisocyanurate, and Polystyrene Adhesive: Solvent-based resin adhesive, with a service temperature range of minus 75 to plus 300 deg F.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-96.
b. Foster Products Corporation, H. B. Fuller Company; 81-33.
2. For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
B. Flexible Elastomeric and Polyolefin Adhesive: Comply with MIL-A-24179A, Type II, Class I.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Aeroflex USA Inc.; Aeroseal.
b. Armacell LCC; 520 Adhesive.
c. Foster Products Corporation, H. B. Fuller Company; 85-75.
d. RBX Corporation; Rubatex Contact Adhesive.
2. For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
C. ASJ Adhesive, and FSK and PVDC Jacket Adhesive: Comply with MIL-A-3316C, Class 2, Grade A for bonding insulation jacket lap seams and joints.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-82.
b. Foster Products Corporation, H. B. Fuller Company; 85-20.
c. ITW TACC, Division of Illinois Tool Works; S-90/80.
d. Marathon Industries, Inc.; 225.
e. Mon-Eco Industries, Inc.; 22-25.
2. For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
D. PVC Jacket Adhesive: Compatible with PVC jacket.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Dow Chemical Company (The); 739, Dow Silicone.
b. Johns-Manville; Zeston Perma-Weld, CEEL-TITE Solvent Welding Adhesive.
c. P.I.C. Plastics, Inc.; Welding Adhesive.
d. Speedline Corporation; Speedline Vinyl Adhesive.
2. For indoor applications, use adhesive that has a VOC content of 50 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.3 MASTICS

A. Vapor-Barrier Mastic: Water based; suitable for indoor and outdoor use on below ambient services.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-35.
b. Foster Products Corporation, H. B. Fuller Company; 30-90.
c. ITW TACC, Division of Illinois Tool Works; CB-50.
d. Marathon Industries, Inc.; 590.
e. Mon-Eco Industries, Inc.; 55-40.
f. Vimasco Corporation; 749.
2. Water-Vapor Permeance: ASTM E 96, Procedure B, 0.013 perm at 43-mil dry film thickness.
3. Service Temperature Range: Minus 20 to plus 180 deg F.
4. Solids Content: ASTM D 1644, 59 percent by volume and 71 percent by weight.
5. Color: White.
B. Vapor-Barrier Mastic: Solvent based; suitable for indoor use on below ambient services.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-30.
b. Foster Products Corporation, H. B. Fuller Company; 30-35.
c. ITW TACC, Division of Illinois Tool Works; CB-25.
d. Marathon Industries, Inc.; 501.
e. Mon-Eco Industries, Inc.; 55-10.
2. Water-Vapor Permeance: ASTM F 1249, 0.05 perm at 35-mil dry film thickness.
3. Service Temperature Range: 0 to 180 deg F.
4. Solids Content: ASTM D 1644, 44 percent by volume and 62 percent by weight.
5. Color: White.
C. Description: Shall be compatible with insulation materials, jackets, and substrates.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-52.
b. Foster Products Corporation, H. B. Fuller Company; 81-42.
c. Marathon Industries, Inc.; 130.
d. Vimasco Corporation; 136.
2. Fire-resistant, water-based lagging adhesive and coating for use indoors to adhere fire-resistant lagging cloths over equipment and pipe insulation.
3. Service Temperature Range: Minus 50 to plus 180 deg F.
4. Color: White.

2.4 SEALANTS

A. Joint Sealants:
1. Joint Sealants for Cellular-Glass, Phenolic, and Polyisocyanurate Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-76.
b. Foster Products Corporation, H. B. Fuller Company; 30-45.
c. Marathon Industries, Inc.; 405.
d. Mon-Eco Industries, Inc.; 44-05.
e. Pittsburgh Corning Corporation; Pittseal 444.
f. Vimasco Corporation; 750.
2. Joint Sealants for Polystyrene Products: Subject to compliance with requirements, provide one of the following:
a. Childers Products, Division of ITW; CP-70.
b. Foster Products Corporation, H. B. Fuller Company; 30-45/30-46.
c. Marathon Industries, Inc.; 405.
d. Mon-Eco Industries, Inc.; 44-05.
e. Vimasco Corporation; 750.
3. Materials shall be compatible with insulation materials, jackets, and substrates.
4. Permanently flexible, elastomeric sealant.
5. Service Temperature Range: Minus 100 to plus 300 deg F.
6. Color: White or gray.
7. For indoor applications, use sealants that have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).

2.5 FACTORY-APPLIED JACKETS

A. Insulation system schedules indicate factory-applied jackets on various applications. When factory-applied jackets are indicated, comply with the following:
1. ASJ: White, kraft-paper, fiberglass-reinforced scrim with aluminum-foil backing; complying with ASTM C 1136, Type I.
2. ASJ-SSL: ASJ with self-sealing, pressure-sensitive, acrylic-based adhesive covered by a removable protective strip; complying with ASTM C 1136, Type I.
3. FSK Jacket: Aluminum-foil, fiberglass-reinforced scrim with kraft-paper backing; complying with ASTM C 1136, Type II.
4. PVDC Jacket for Indoor Applications: 4-mil-thick, white PVDC biaxially oriented barrier film with a permeance at 0.02 perms when tested according to ASTM E 96 and with a flame-spread index of 5 and a smoke-developed index of 20 when tested according to ASTM E 84.
a. Products: Subject to compliance with requirements, provide the following:
1) Dow Chemical Company (The); Saran 540 Vapor Retarder Film and Saran 560 Vapor Retarder Film.
5. PVDC Jacket for Outdoor Applications: 6-mil-thick, white PVDC biaxially oriented barrier film with a permeance at 0.01 perms when tested according to ASTM E 96 and with a flame-spread index of 5 and a smoke-developed index of 25 when tested according to ASTM E 84.
a. Products: Subject to compliance with requirements, provide the following:
1) Dow Chemical Company (The); Saran 540 Vapor Retarder Film and Saran 560 Vapor Retarder Film.
6. PVDC-SSL Jacket: PVDC jacket with a self-sealing, pressure-sensitive, acrylic-based adhesive covered by a removable protective strip.
a. Products: Subject to compliance with requirements, provide the following:
1) Dow Chemical Company (The); Saran 540 Vapor Retarder Film and Saran 560 Vapor Retarder Film.

2.6 FIELD-APPLIED FABRIC-REINFORCING MESH

A. Woven Glass-Fiber Fabric for Pipe Insulation: Approximately 2 oz./sq. yd. with a thread count of 10 strands by 10 strands/sq. inch for covering pipe and pipe fittings.
1. Products: Subject to compliance with requirements, provide the following:
a. Vimasco Corporation; Elastafab 894.
B. Woven Glass-Fiber Fabric for Equipment Insulation: Approximately 6 oz./sq. yd. with a thread count of 5 strands by 5 strands/sq. inch for covering equipment.
1. Products: Subject to compliance with requirements, provide the following:
a. Childers Products, Division of ITW; Chil-Glas No. 5.

2.7 FIELD-APPLIED JACKETS

A. Field-applied jackets shall comply with ASTM C 921, Type I, unless otherwise indicated.
B. PVC Jacket: High-impact-resistant, UV-resistant PVC complying with ASTM D 1784, Class 16354-C; thickness as scheduled; roll stock ready for shop or field cutting and forming. Thickness is indicated in field-applied jacket schedules.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Johns Manville; Zeston.
b. P.I.C. Plastics, Inc.; FG Series.
c. Proto PVC Corporation; LoSmoke.
d. Speedline Corporation; SmokeSafe.
2. Adhesive: As recommended by jacket material manufacturer.
3. Color: White Color-code jackets based on system.
4. Factory-fabricated fitting covers to match jacket if available; otherwise, field fabricate.
a. Shapes: 45- and 90-degree, short- and long-radius elbows, tees, valves, flanges, unions, reducers, end caps, soil-pipe hubs, traps, mechanical joints, and P-trap and supply covers for lavatories.
5. Factory-fabricated tank heads and tank side panels.

2.8 TAPES

A. ASJ Tape: White vapor-retarder tape matching factory-applied jacket with acrylic adhesive, complying with ASTM C 1136.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Avery Dennison Corporation, Specialty Tapes Division; Fasson 0835.
b. Compac Corp.; 104 and 105.
c. Ideal Tape Co., Inc., an American Biltrite Company; 428 AWF ASJ.
d. Venture Tape; 1540 CW Plus, 1542 CW Plus, and 1542 CW PlusSQ.
2. Width: 3 inches.
3. Thickness: 11.5 mils.
4. Adhesion: 90 ounces force/inch in width.
5. Elongation: 2 percent.
6. Tensile Strength: 40 lbf/inch in width.
7. ASJ Tape Disks and Squares: Precut disks or squares of ASJ tape.
B. FSK Tape: Foil-face, vapor-retarder tape matching factory-applied jacket with acrylic adhesive; complying with ASTM C 1136.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Avery Dennison Corporation, Specialty Tapes Division; Fasson 0827.
b. Compac Corp.; 110 and 111.
c. Ideal Tape Co., Inc., an American Biltrite Company; 491 AWF FSK.
d. Venture Tape; 1525 CW, 1528 CW, and 1528 CW/SQ.
2. Width: 3 inches.
3. Thickness: 6.5 mils.
4. Adhesion: 90 ounces force/inch in width.
5. Elongation: 2 percent.
6. Tensile Strength: 40 lbf/inch in width.
7. FSK Tape Disks and Squares: Precut disks or squares of FSK tape.
C. PVC Tape: White vapor-retarder tape matching field-applied PVC jacket with acrylic adhesive. Suitable for indoor and outdoor applications.
1. Products: Subject to compliance with requirements, provide one of the following:
a. Avery Dennison Corporation, Specialty Tapes Division; Fasson 0555.
b. Compac Corp.; 130.
c. Ideal Tape Co., Inc., an American Biltrite Company; 370 White PVC tape.
d. Venture Tape; 1506 CW NS.
2. Width: 2 inches.
3. Thickness: 6 mils.
4. Adhesion: 64 ounces force/inch in width.
5. Elongation: 500 percent.
6. Tensile Strength: 18 lbf/inch in width.

PART 3 - EXECUTION

3.1 PREPARATION

Retain one of first two paragraphs below. Corrosion of equipment and pipe under insulation, while not typically caused by insulation, is an issue that must be considered during design of any plumbing insulation system. The potential for corrosion depends on many factors. Requirements cited in second paragraph represent added measures of protection but are not meant to take the place of proper system design and specification.

A. Surface Preparation: Clean and dry surfaces to receive insulation. Remove materials that will adversely affect insulation application.

3.2 GENERAL INSTALLATION REQUIREMENTS

A. Install insulation materials, accessories, and finishes with smooth, straight, and even surfaces; free of voids throughout the length of equipment and piping including fittings, valves, and specialties.
B. Install insulation materials, forms, vapor barriers or retarders, jackets, and thicknesses required for each item of equipment and pipe system as specified in insulation system schedules.
C. Install insulation applications compatible with insulation materials and suitable for the service. Install accessories that do not corrode, soften, or otherwise attack insulation or jacket in either wet or dry state.
D. Install insulation with longitudinal seams at top and bottom of horizontal runs.
E. Install multiple layers of insulation with longitudinal and end seams staggered.
F. Do not weld brackets, clips, or other attachment devices to piping, fittings, and specialties.
G. Keep insulation materials dry during application and finishing.
H. Install insulation with tight longitudinal seams and end joints. Bond seams and joints with adhesive recommended by insulation material manufacturer.
I. Install insulation with least number of joints practical.
J. Where vapor barrier is indicated, seal joints, seams, and penetrations in insulation at hangers, supports, anchors, and other projections with vapor-barrier mastic.
1. Install insulation continuously through hangers and around anchor attachments.
2. For insulation application where vapor barriers are indicated, extend insulation on anchor legs from point of attachment to supported item to point of attachment to structure. Taper and seal ends at attachment to structure with vapor-barrier mastic.
3. Install insert materials and install insulation to tightly join the insert. Seal insulation to insulation inserts with adhesive or sealing compound recommended by insulation material manufacturer.
4. Cover inserts with jacket material matching adjacent pipe insulation. Install shields over jacket, arranged to protect jacket from tear or puncture by hanger, support, and shield.
K. Apply adhesives, mastics, and sealants at manufacturer's recommended coverage rate and wet and dry film thicknesses.
L. Install insulation with factory-applied jackets as follows:
1. Draw jacket tight and smooth.
2. Cover circumferential joints with 3-inch-wide strips, of same material as insulation jacket. Secure strips with adhesive and outward clinching staples along both edges of strip, spaced 4 inches o.c.
3. Overlap jacket longitudinal seams at least 1-1/2 inches. Install insulation with longitudinal seams at bottom of pipe. Clean and dry surface to receive self-sealing lap. Staple laps with outward clinching staples along edge at 2 inches o.c.
a. For below ambient services, apply vapor-barrier mastic over staples.
4. Cover joints and seams with tape as recommended by insulation material manufacturer to maintain vapor seal.
5. Where vapor barriers are indicated, apply vapor-barrier mastic on seams and joints and at ends adjacent to pipe flanges and fittings.
M. Cut insulation in a manner to avoid compressing insulation more than 75 percent of its nominal thickness.
N. Finish installation with systems at operating conditions. Repair joint separations and cracking due to thermal movement.
O. Repair damaged insulation facings by applying same facing material over damaged areas. Extend patches at least 4 inches beyond damaged areas. Adhere, staple, and seal patches similar to butt joints.

3.3 PENETRATIONS

A. Insulation Installation at Roof Penetrations: Install insulation continuously through roof penetrations.
1. Seal penetrations with flashing sealant.
2. For applications requiring only indoor insulation, terminate insulation above roof surface and seal with joint sealant. For applications requiring indoor and outdoor insulation, install insulation for outdoor applications tightly joined to indoor insulation ends. Seal joint with joint sealant.
3. Extend jacket of outdoor insulation outside roof flashing at least 2 inches below top of roof flashing.
4. Seal jacket to roof flashing with flashing sealant.
B. Insulation Installation at Underground Exterior Wall Penetrations: Terminate insulation flush with sleeve seal. Seal terminations with flashing sealant.
C. Insulation Installation at Aboveground Exterior Wall Penetrations: Install insulation continuously through wall penetrations.
1. Seal penetrations with flashing sealant.
2. For applications requiring only indoor insulation, terminate insulation inside wall surface and seal with joint sealant. For applications requiring indoor and outdoor insulation, install insulation for outdoor applications tightly joined to indoor insulation ends. Seal joint with joint sealant.
3. Extend jacket of outdoor insulation outside wall flashing and overlap wall flashing at least 2 inches.
4. Seal jacket to wall flashing with flashing sealant.
D. Insulation Installation at Interior Wall and Partition Penetrations (That Are Not Fire Rated): Install insulation continuously through walls and partitions.
E. Insulation Installation at Fire-Rated Wall and Partition Penetrations: Install insulation continuously through penetrations of fire-rated walls and partitions.
F. Insulation Installation at Floor Penetrations:
1. Pipe: Install insulation continuously through floor penetrations.
2. Seal penetrations through fire-rated assemblies. Comply with requirements in Division 07 Section "Penetration Firestopping."

3.4 GENERAL PIPE INSULATION INSTALLATION

A. Requirements in this article generally apply to all insulation materials except where more specific requirements are specified in various pipe insulation material installation articles.

B. Insulation Installation on Fittings, Valves, Strainers, Flanges, and Unions:
1. Install insulation over fittings, valves, strainers, flanges, unions, and other specialties with continuous thermal and vapor-retarder integrity, unless otherwise indicated.
2. Insulate pipe elbows using preformed fitting insulation or mitered fittings made from same material and density as adjacent pipe insulation. Each piece shall be butted tightly against adjoining piece and bonded with adhesive. Fill joints, seams, voids, and irregular surfaces with insulating cement finished to a smooth, hard, and uniform contour that is uniform with adjoining pipe insulation.
3. Insulate tee fittings with preformed fitting insulation or sectional pipe insulation of same material and thickness as used for adjacent pipe. Cut sectional pipe insulation to fit. Butt each section closely to the next and hold in place with tie wire. Bond pieces with adhesive.
4. Insulate valves using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. For valves, insulate up to and including the bonnets, valve stuffing-box studs, bolts, and nuts. Fill joints, seams, and irregular surfaces with insulating cement.
5. Insulate strainers using preformed fitting insulation or sectional pipe insulation of same material, density, and thickness as used for adjacent pipe. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker. Fill joints, seams, and irregular surfaces with insulating cement. Insulate strainers so strainer basket flange or plug can be easily removed and replaced without damaging the insulation and jacket. Provide a removable reusable insulation cover. For below ambient services, provide a design that maintains vapor barrier.
6. Insulate flanges and unions using a section of oversized preformed pipe insulation. Overlap adjoining pipe insulation by not less than two times the thickness of pipe insulation, or one pipe diameter, whichever is thicker.
7. Cover segmented insulated surfaces with a layer of finishing cement and coat with a mastic. Install vapor-barrier mastic for below ambient services and a breather mastic for above ambient services. Reinforce the mastic with fabric-reinforcing mesh. Trowel the mastic to a smooth and well-shaped contour.
8. For services not specified to receive a field-applied jacket, except for flexible elastomeric and polyolefin, install fitted PVC cover over elbows, tees, strainers, valves, flanges, and unions. Terminate ends with PVC end caps. Tape PVC covers to adjoining insulation facing using PVC tape.
C. Insulate instrument connections for thermometers, pressure gages, pressure temperature taps, test connections, flow meters, sensors, switches, and transmitters on insulated pipes, vessels, and equipment. Shape insulation at these connections by tapering it to and around the connection with insulating cement and finish with finishing cement, mastic, and flashing sealant.

3.5 CELLULAR-GLASS INSULATION INSTALLATION

A. Insulation Installation on Straight Pipes and Tubes:
1. Secure each layer of insulation to pipe with wire or bands and tighten bands without deforming insulation materials.
2. Where vapor barriers are indicated, seal longitudinal seams, end joints, and protrusions with vapor-barrier mastic and joint sealant.
3. For insulation with factory-applied jackets on above ambient services, do not staple longitudinal tabs but secure tabs with additional adhesive as recommended by insulation material manufacturer and seal with vapor-barrier mastic and flashing sealant.
B. Insulation Installation on Pipe Flanges:
1. Install preformed pipe insulation to outer diameter of pipe flange.
2. Make width of insulation section same as overall width of flange and bolts, plus twice the thickness of pipe insulation.
3. Fill voids between inner circumference of flange insulation and outer circumference of adjacent straight pipe segments with cut sections of cellular-glass block insulation of same thickness as pipe insulation.
4. Install jacket material with manufacturer's recommended adhesive, overlap seams at least 1 inch, and seal joints with flashing sealant.
C. Insulation Installation on Pipe Fittings and Elbows:
1. Install preformed sections of same material as straight segments of pipe insulation when available. Secure according to manufacturer's written instructions.
2. When preformed sections of insulation are not available, install mitered sections of cellular-glass insulation. Secure insulation materials with wire or bands.
D. Insulation Installation on Valves and Pipe Specialties:
1. Install preformed sections of cellular-glass insulation to valve body.
2. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
3. Install insulation to flanges as specified for flange insulation application.

3.6 FLEXIBLE ELASTOMERIC INSULATION INSTALLATION

A. Seal longitudinal seams and end joints with manufacturers recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
B. Insulation Installation on Pipe Flanges:
1. Install pipe insulation to outer diameter of pipe flange.
2. Make width of insulation section same as overall width of flange and bolts, plus twice the thickness of pipe insulation.
3. Fill voids between inner circumference of flange insulation and outer circumference of adjacent straight pipe segments with cut sections of sheet insulation of same thickness as pipe insulation.
4. Secure insulation to flanges and seal seams with manufacturers recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
C. Insulation Installation on Pipe Fittings and Elbows:
1. Install mitered sections of pipe insulation.
2. Secure insulation materials and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.
D. Insulation Installation on Valves and Pipe Specialties:
1. Install preformed valve covers manufactured of same material as pipe insulation when available.
2. When preformed valve covers are not available, install cut sections of pipe and sheet insulation to valve body. Arrange insulation to permit access to packing and to allow valve operation without disturbing insulation.
3. Install insulation to flanges as specified for flange insulation application.
4. Secure insulation to valves and specialties and seal seams with manufacturer's recommended adhesive to eliminate openings in insulation that allow passage of air to surface being insulated.

3.7 FIELD-APPLIED JACKET INSTALLATION

A. Where glass-cloth jackets are indicated, install directly over bare insulation or insulation with factory-applied jackets.
1. Draw jacket smooth and tight to surface with 2-inch overlap at seams and joints.
2. Embed glass cloth between two 0.062-inch-thick coats of lagging adhesive.
3. Completely encapsulate insulation with coating, leaving no exposed insulation.
B. Where PVC jackets are indicated, install with 1-inch overlap at longitudinal seams and end joints; for horizontal applications, install with longitudinal seams along top and bottom of tanks and vessels. Seal with manufacturers recommended adhesive.
1. Apply two continuous beads of adhesive to seams and joints, one bead under lap and the finish bead along seam and joint edge.

3.8 FINISHES

A. Equipment and Pipe Insulation with ASJ, Glass-Cloth, or Other Paintable Jacket Material: Paint jacket with paint system identified below and as specified in Division 09 painting Sections.
1. Flat Acrylic Finish: Two finish coats over a primer that is compatible with jacket material and finish coat paint. Add fungicidal agent to render fabric mildew proof.
a. Finish Coat Material: Interior, flat, latex-emulsion size.
B. Flexible Elastomeric Thermal Insulation: After adhesive has fully cured, apply two coats of insulation manufacturer's recommended protective coating.
C. Color: Final color as selected by Architect. Vary first and second coats to allow visual inspection of the completed Work.
D. Do not field paint aluminum or stainless-steel jackets.

3.9 EQUIPMENT INSULATION SCHEDULE

A. Insulation materials and thicknesses are identified below. If more than one material is listed for a type of equipment, selection from materials listed is Contractor's option.
B. Insulate indoor and outdoor equipment in paragraphs below that is not factory insulated.
C. Domestic water storage tank insulation shall be one of the following:
1. Cellular Glass: 2 inches thick.
2. Flexible Elastomeric: 1 inch thick.

3.10 PIPING INSULATION SCHEDULE, GENERAL

A. Acceptable preformed pipe and tubular insulation materials and thicknesses are identified for each piping system and pipe size range. If more than one material is listed for a piping system, selection from materials listed is Contractor's option.
B. Items Not Insulated: Unless otherwise indicated, do not install insulation on the following:
1. Drainage piping located in crawl spaces.
2. Underground piping.
3. Chrome-plated pipes and fittings unless there is a potential for personnel injury.

3.13 INDOOR PIPING INSULATION SCHEDULE

A. Domestic Hot and Recirculated Hot Water:
1. NPS 1-1/4 and Smaller: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 3/4 inch 1 inch thick.
2. NPS 1-1/2 and Larger: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 1 inch thick.
B. Stormwater and Overflow:
1. All Pipe Sizes: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 1 inch thick.
C. Roof Drain and Overflow Drain Bodies:
1. All Pipe Sizes: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 1 inch thick.

D. Exposed Sanitary Drains, Domestic Water, Domestic Hot Water, and Stops for Plumbing Fixtures for People with Disabilities:
1. All Pipe Sizes: Insulation shall be one of the following:
a. Flexible Elastomeric: 1 inch thick.
b. Mineral-Fiber, Preformed Pipe Insulation, Type I: 1 inch thick.
c. Polyolefin: 1 inch thick.
E. Condensate and Equipment Drain Water below 60 Deg F:
1. All Pipe Sizes: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 3/4 inch 1 inch thick.
F. Floor Drains, Traps, and Sanitary Drain Piping within 10 Feet of Drain Receiving Condensate and Equipment Drain Water below 60 Deg F:
1. All Pipe Sizes: Insulation shall be one of the following:
a. Cellular Glass: 1-1/2 inches thick.
b. Flexible Elastomeric: 3/4 inch 1 inch thick.

END OF SECTION 220700

SECTION 221119 - DOMESTIC WATER PIPING SPECIALTIES

1.1 PERFORMANCE REQUIREMENTS

A. Minimum Working Pressure for Domestic Water Piping Specialties: 125 psig unless otherwise indicated.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.
B. Shop Drawings: Diagram power, signal, and control wiring.
C. Field quality-control test reports.
D. Operation and Maintenance Data: For domestic water piping specialties to include in emergency, operation, and maintenance manuals.

PART 2 - PRODUCTS

2.1 VACUUM BREAKERS

A. Pipe-Applied, Atmospheric-Type Vacuum Breakers:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Ames Co.
b. FEBCO; SPX Valves & Controls.
c. Watts Industries, Inc.; Water Products Div.
d. Zurn Plumbing Products Group; Wilkins Div.
3. Standard: ASSE 1001.
4. Size: NPS 1/4 to NPS 3, as required to match connected piping.
5. Body: Bronze.
6. Inlet and Outlet Connections: Threaded.
7. Finish: Chrome plated.

B. Hose-Connection Vacuum Breakers:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Legend Valve.
b. Watts Industries, Inc.; Water Products Div.
c. Woodford Manufacturing Company.
d. Zurn Plumbing Products Group; Wilkins Div.
3. Standard: ASSE 1011.
4. Body: Bronze, nonremovable, with manual drain.
5. Outlet Connection: Garden-hose threaded complying with ASME B1.20.7.
6. Finish: Chrome or nickel plated.
C. Pressure Vacuum Breakers:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
a. Ames Co.
b. FEBCO; SPX Valves & Controls.
c. Watts Industries, Inc.; Water Products Div.
d. Zurn Plumbing Products Group; Wilkins Div.
4. Standard: ASSE 1020.
5. Operation: Continuous-pressure applications.
6. Pressure Loss: 5 psig maximum, through middle 1/3 of flow range.
7. Accessories:
a. Valves: Ball type, on inlet and outlet.

2.2 BACKFLOW PREVENTERS

A. Reduced-Pressure-Principle Backflow Preventers:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
a. FEBCO; SPX Valves & Controls.
b. Watts Industries, Inc.; Water Products Div.
c. Zurn Plumbing Products Group; Wilkins Div.
4. Standard: ASSE 1013.
5. Operation: Continuous-pressure applications.
6. Pressure Loss: 8 psig maximum, through middle 1/3 of flow range.
7. Body: Bronze for NPS 2 and smaller; cast iron with interior lining complying with AWWA C550 or that is FDA approved for NPS 2-1/2 and larger.
8. End Connections: Threaded for NPS 2 and smaller; [flanged] <Insert type> for NPS 2-1/2 and larger.
9. Configuration: Designed for horizontal center section, and vertical outlet flow.
10. Accessories:
a. Valves: Ball type with threaded ends on inlet and outlet of NPS 2 and smaller; outside screw and yoke gate-type with flanged ends on inlet and outlet of NPS 2-1/2 and larger.
b. Air-Gap Fitting: ASME A112.1.2, matching backflow-preventer connection.

2.4 BALANCING VALVES

A. Copper-Alloy Calibrated Balancing Valves:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide the product indicated on Drawings or a comparable product by one of the following:
a. Armstrong International, Inc.
b. ITT Industries; Bell & Gossett Div.
c. NIBCO INC.
d. Taco, Inc.
e. Tour & Andersson/Victaulic
f. Watts Industries, Inc.; Water Products Div.
4. Type: Ball valve with two readout ports and memory setting indicator.
5. Body: Brass.
6. Size: Same as connected piping, but not larger than NPS 2.
7. Accessories: Meter hoses, fittings, valves, differential pressure meter, and carrying case.
B. Accessories: Meter hoses, fittings, valves, differential pressure meter, and carrying case.

C. Memory-Stop Balancing Valves:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Crane Co.; Crane Valve Group; Jenkins Valves.
b. Crane Co.; Crane Valve Group; Stockham Div.
c. Hammond Valve.
d. Milwaukee Valve Company.
e. NIBCO INC.
f. Red-White Valve Corp.
3. Standard: MSS SP-110 for two-piece, copper-alloy ball valves.
4. Pressure Rating: 400-psig minimum CWP.
5. Size: NPS 2 or smaller.
6. Body: Copper alloy.
7. Port: Standard or full port.
8. Ball: Chrome-plated brass.
9. Seats and Seals: Replaceable.
10. End Connections: Solder joint or threaded.
11. Handle: Vinyl-covered steel with memory-setting device.
D. Automatic Balancing Valves for Hot Water Recirculation:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Tour & Andersson/Victaulic
b. Engineer Approved Equal
3. Standard: Certified in accordance with ANSI/NSF 61 and 372
4. Pressure Rating: 400 psig CWP suitable for working pressures with differential control rangers of 2-32 psi or 5-60 psi
5. Sizes ½ and ¾"
6. Body: 300 Series stainless steel
7. Accuracy: +/- 5% over 95% of the control range

SECTION 224000 - PLUMBING FIXTURES

PART 1 - GENERAL

1.1 SUBMITTALS

A. Product Data: For each type of plumbing fixture indicated. Include selected fixture and trim, fittings, accessories, appliances, appurtenances, equipment, and supports. Indicate materials and finishes, dimensions, construction details, and flow-control rates.
B. Warranty: Special warranty specified in this Section.

PART 2 - PRODUCTS

2.1 RRefer to contract documents for basics of design of plumbing fixtures.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before plumbing fixture installation.
B. Examine cabinets, counters, floors, and walls for suitable conditions where fixtures will be installed.
C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Assemble plumbing fixtures, trim, fittings, and other components according to manufacturers' written instructions.
B. Install off-floor supports, affixed to building substrate, for wall-mounting fixtures.
1. Use carrier supports with waste fitting and seal for back-outlet fixtures.
2. Use carrier supports without waste fitting for fixtures with tubular waste piping.
3. Use chair-type carrier supports with rectangular steel uprights for accessible fixtures.
C. Install back-outlet, wall-mounting fixtures onto waste fitting seals and attach to supports.
D. Install floor-mounting fixtures on closet flanges or other attachments to piping or building substrate.
E. Install wall-mounting fixtures with tubular waste piping attached to supports.
F. Install floor-mounting attached to building floor substrate bracket and onto waste fitting seals.
G. Install counter-mounting fixtures in and attached to casework.
H. Install fixtures level and plumb according to roughing-in drawings.
I. Install water-supply piping with stop on each supply to each fixture to be connected to water distribution piping. Attach supplies to supports or substrate within pipe spaces behind fixtures. Install stops in locations where they can be easily reached for operation.
1. Exception: Use ball valves if supply stops are not specified with fixture. Valves are specified in Division 15 Section "Valves."
J. Install trap and tubular waste piping on drain outlet of each fixture to be directly connected to sanitary drainage system.
K. Install tubular waste piping on drain outlet of each fixture to be indirectly connected to drainage system.
L. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for people with disabilities to reach.
M. Install toilet seats on water closets.
N. Install traps on fixture outlets.
1. Exception: Omit trap on fixtures with integral traps.
O. Install escutcheons at piping wall-ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-pattern escutcheons if required to conceal protruding fittings. Escutcheons are specified in Division 15 Section "Basic Mechanical Materials and Methods."
P. Seal joints between fixt

SECTION 221116 - DOMESTIC WATER PIPING

PART 1 - GENERAL

1.1 SUBMITTALS
A. Product Data: For pipe, tube, fittings, and couplings.
B. Water Samples: Specified in Part 3 "Cleaning" Article.
C. Field quality-control test reports.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. The following requirements apply to product selection:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PIPING MATERIALS
A. Refer to Part 3 "Pipe and Fitting Applications" Article for applications of pipe, tube, fitting, and joining materials.
B. Transition Couplings for Aboveground Pressure Piping: Coupling or other manufactured fitting the same size as, with pressure rating at least equal to and ends compatible with, piping to be joined.

2.3 COPPER TUBE AND FITTINGS
A. Piping 4" and smaller - Hard Copper Tube: ASTM B 88, Types L (ASTM B 88M, Type B), water tube, drawn temper.
1. Copper Pressure Fittings: ASME B16.18, cast-copper-alloy or ASME B16.22, wrought- copper, solder-joint fittings. Furnish wrought-copper fittings if indicated.
2. Bronze Flanges: ASME B16.24, Class 150, with solder-joint ends. Furnish Class 300 flanges if required to match piping.
3. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with ball-and-socket, metal-to-metal seating surfaces, and solder-joint or threaded ends.
B. Piping 2" and larger: Hard Copper Tube: ASTM B 88, Types L (ASTM B88M, Types B), water tube, drawn temper.
1. Copper Grooved-End Fittings: ASTM B 75 copper tube or ASTM B 152 wrought copper fittings with copper tubing sized grooved-ends designed to accept Victaulic couplings (flaring of tube and fitting ends to IPS dimensions is not permitted).
2. Grooved-End-Tube Couplings: Copper-tube dimensions and design similar to AWWA C606. Include ferrous housing sections cast with offsetting, angle-pattern bolt pads to provide system rigidity upon visual confirmation of metal-to-metal bolt pad contact with no torque requirement, coated with copper-colored enamel, Grade P fluoroelastomer-synthetic rubber gasket design specifically for domestic water and with red and blue color code designed for operating temperatures from 0 deg F to +180 deg F. Designs that permit spaces or gaps at bolt pads or require a torque per written manufacturer's installation instructions not permitted. Victaulic Installation-Ready Style 607.

2.4 PEX TUBE AND FITTINGS
A. PEX Distribution System: ASTM F 877, SDR 9 tubing.
B. Fittings for PEX Tube: ASTM F 1807, metal-insert type with copper or stainless-steel crimp rings and matching PEX tube dimensions.
C. Manifold: Multiple-outlet, plastic or corrosion-resistant-metal assembly complying with ASTM F 877; with plastic or corrosion-resistant-metal valve for each outlet.

2.5 PEX-AL-PEX TUBE AND FITTINGS
A. PEX-AL-PEX Distribution System: ASTM F 1281 tubing.
B. Fittings for PEX-AL-PEX Tube: ASTM F 1281, metal-insert type with copper or stainless-steel crimp rings and matching PEX-AL-PEX tube dimensions.

PART 3 - PIPING

3.1 CPVC PIPING

A. CPVC Pipe: ASTM F 441/F 441M, Schedule 40 and Schedule 80.
1. CPVC Socket Fittings: ASTM F 438 for Schedule 40 and ASTM F 439 for Schedule 80.
2. CPVC Threaded Fittings: ASTM F 437, Schedule 80.
3. CPVC Plastic Pipe Flanges: Victaulic grooved-type pipe fittings, PGS-300 fittings meeting the requirements of ASTM F439, modified for grooved-ends.
B. CPVC Piping System: ASTM D 2846/D 2846M, SDR 11, pipe and socket fittings.
C. CPVC Tubing System: ASTM D 2846/D 2846M, SDR 11, tube and socket fittings.

3.2 STAINLESS STEEL PIPING

A. Type 304 stainless steel socket weld or threaded end fittings. ANSI 1 B16.3, B16.5.
B. Type 304 stainless steel Victaulic grooved-end fittings and ductile-iron couplings styles 607N or 877N for 2" and larger with Grade P fluoroelastomer synthetic rubber gasket designed specifically for domestic water with an operating temperature range of 0 deg F to +180 deg F.

3.3 VALVES
A. Bronze and cast-iron, general-duty valves are specified in Division 22 Section "Valves."
B. Balancing and drain valves are specified in Division 22 Section "Plumbing Specialties."

3.4 PIPING JOINING MATERIALS
A. Solvent Cements for Joining CPVC Piping and Tubing: ASTM F 493.
1. Use CPVC solvent cement that has a VOC content of 490 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
2. Use adhesive primer that has a VOC content of 550 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
B. Plastic, Pipe-Flange Gaskets, Bolts, and Nuts: Type and material recommended by piping system manufacturer unless otherwise indicated.

3.5 SPECIALTY VALVES
A. Comply with requirements in Division 22 Section "General-Duty Valves for Plumbing Piping" for general-duty metal valves.
B. Comply with requirements in Division 22 Section "Domestic Water Piping Specialties" for balancing valves, drain valves, backflow preventers, and vacuum breakers.
C. CPVC Union Ball Valves:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. American Valve, Inc.
b. Asahi/America, Inc.
c. Colonial Engineering, Inc.
d. Fischer, George Inc.
e. Hayward Flow Control Systems; Hayward Industrial Products, Inc.
f. IPEX Inc.
g. NIBCO INC.
h. Sloane, George Fischer, Inc.
i. Spears Manufacturing Company.
j. Thermoplastic Valves Inc.
2. Description:
a. Pressure Rating: 150 psig (1035 kPa) at 73 deg F (23 deg C).
b. Body Material: CPVC.
c. Body Design: Union type
e. End Connections for Valves NPS 2 (DN 50) and Smaller: Detachable, socket or threaded.
f. End Connections for Valves NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Detachable, socket or threaded.
g. Ball: CPVC, full port.
h. Seals: PTFE or EPDM-rubber O-rings.
i. Handle: Tee shaped.
D. CPVC Non-Union Ball Valves:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. American Valve, Inc.
b. Asahi/America, Inc.
c. Colonial Engineering, Inc.
d. King Bros. Industries.
d. Legend Valve.
e. NIBCO INC.
f. Spears Manufacturing Company.
g. Thermoplastic Valves Inc.
2. Description:
a. Standard: MSS SP-122.
b. Pressure Rating: 150 psig (1035 kPa) at 73 deg F (23 deg C).
c. Body Material: CPVC.
d. Body Design: Non-union type.
e. End Connections: Socket or threaded.
f. Ball: CPVC; full or reduced port.
g. Seals: EPDM- or FKM-rubber O-rings.
G. CPVC Gate Valves:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
a. Sloane, George Fischer, Inc.
b. Spears Manufacturing Company.
2. Description:
a. Pressure Rating: 150 psig (1035 kPa) at 73 deg F (23 deg C).
b. Body Material: CPVC.
c. Body Design: Nonrising stem.
d. End Connections for Valves NPS 2 (DN 50) and Smaller: Socket or Threaded.
e. End Connections for Valves NPS 2-1/2 to NPS 4 (DN 65 to DN 100): Socket or threaded.
f. Gate and Stem: Plastic.
g. Seals: EPDM rubber.
h. Handle: White.

PART 4 - EXECUTION

4.1 PIPE AND FITTING APPLICATIONS
A. Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below, unless otherwise indicated.
B. Flanges may be used on aboveground piping, unless otherwise indicated.
C. Grooved joints may be used on aboveground grooved-end piping.
D. Domestic Water Piping inside the Building: Use any of the following piping materials for each size range:
1. NPS 4 to NPS 6: Hard copper tube, Type L (Type B); copper pressure fittings; and soldered joints.
2. NPS 4 to NPS 6: Hard copper tube, Type L (Type B); copper grooved-end fittings; and grooved joints.
E. Under-Building-Slab, Domestic Water Piping on House Side of Water Meter, NPS 4 and Smaller: Hard copper tube, Type L (Type B); copper pressure fittings; and soldered joints.
F. Aboveground Domestic Water Piping: Use any of the following piping materials for each size range:
1. NPS 4 and Smaller: Hard copper tube, Type L (Type B); copper pressure fittings; and soldered joints.
2. NPS 4 and Smaller: Hard copper tube, Type L (Type B); Victaulic copper grooved-end fittings; and grooved joints down to NPS 2.
3. NPS 4: Type 304 stainless steel socket weld or threaded end fittings.
4. NPS 4 and Smaller: Victaulic stainless-steel grooved-end fittings and ductile-iron couplings down to NPS2.
5. NPS 4 and Smaller: CPVC Victaulic Grooved-End Fittings: Schedule 40 or 80 CPVC pipe shall meet the requirements of ASTM F441 and ASTM D1784; PGS-300 fittings meeting the requirements of ASTM F439, modified for grooved-ends. Down to NPS 2.
G. Pipe Fittings, 4" and smaller – Above ground installation
1. Wrought Copper: ANSI B16.22.
2. 2" thru 4": Copper Grooved-End Fittings: ASTM B 75 copper tube or ASTM B 152 wrought copper fittings with copper tubing sized grooved-ends designed to accept Victaulic couplings (flaring of tube and fitting ends to IPS dimensions is not permitted).
a. Grooved-End-Tub Couplings: Copper-tube dimensions and design similar to AWWA C606. Include ferrous housing sections cast with offsetting, angle-pattern bolt pads to provide system rigidity upon visual confirmation of metal-to-metal bolt pad contact with no torque requirement, coated with copper-colored enamel, Grade P Fluoroelastomer-synthetic rubber, gasket with red and blue color code designed for operating temperatures from 0 deg F to +180 deg F. Designs that permit spaces or gaps at bolt pads or require a torque per written manufacturer's installation instructions not permitted. Victaulic Installation-Ready Style 607.
3. 2" thru 4": 304 Stainless Steel pipe and Victaulic stainless-steel grooved-end fittings and ductile-iron couplings.
4. 2" thru 4": CPVC Victaulic Grooved-End Fittings: Schedule 40 or 80 CPVC pipe shall meet the requirements of ASTM F441 and ASTM D1784; PGS-300 fittings meeting the requirements of ASTM F439, modified for grooved-ends.

4.3 VALVE APPLICATIONS
A. Drawings indicate valve types to be used. Where specific valve types are not indicated, the following requirements apply:
1. Shutoff Duty: Use stainless steel ball valves for piping NPS 2 and smaller. Use cast-iron, cast brass or stainless-steel butterfly or gate valves with flanged or grooved-ends for piping NPS 2-1/2 and larger.
2. Throttling Duty: Use bronze ball or globe valves for piping NPS 2 and smaller. Use cast-iron butterfly valves with flanged ends for piping NPS 2-1/2 and larger.
3. Hot-Water-Piping, Balancing Duty: Calibrated manual balancing valves or automatic valves.
4. Drain Duty: Hose-end drain valves.
B. Install shutoff valve close to water main on each branch and riser serving plumbing fixtures or equipment, on each water supply to equipment, and on each water supply to plumbing fixtures that do not have supply stops. Use ball valves for piping NPS 2 and smaller. Use butterfly valves for piping NPS 2-1/2 and larger.
NPS 1/2 or NPS 3/4 (DN 15 or DN 20) inlet, hose-end drain valves may be adequate for this application.
C. Install drain valves for equipment at base of each water riser, at low points in horizontal piping, and where required to drain water piping.
1. Install hose-end drain valves at low points in water mains, risers, and branches.
2. Install stop-and-waste drain valves where indicated.
D. Install balancing valve in each hot-water circulation return branch and discharge side of each pump and circulator. Set balancing valves partly open to restrict but not stop flow. Use ball valves for piping NPS 2 and smaller and butterfly valves for piping NPS 2-1/2 and larger. Balancing valves are specified in Division 22 Section "Plumbing Specialties."
E. Install calibrated manual or automatic balancing valves in each hot-water circulation return branch and discharge side of each pump and circulator. Set calibrated balancing valves partly open to restrict but not stop flow. Calibrated balancing valves are specified in Division 22 Section "Plumbing Specialties."

4.4 PIPING INSTALLATION

A. Install galvanized steel sleeve with water stop and mechanical sleeve seal at each service pipe penetration through foundation wall. Select number of interlocking rubber links required to make installation watertight. Sleeves and mechanical sleeve seals are specified in Division 22 Section "Basic Materials and Methods."
B. Install wall penetration system at each service pipe penetration through foundation wall. Make installation watertight. Wall penetration systems are specified in Division 22 Section "Basic Materials and Methods."
C. Install shutoff valve, hose-end drain valve, strainer, pressure gage, and test tee with valve, inside the building at each domestic water service entrance. Pressure gages are specified in Division 22 Section "Plumbing Specialties."
D. Install water-pressure regulators downstream from shutoff valves. Water-pressure regulators are specified in Division 22 Section "Plumbing Specialties."
E. Install domestic water piping level without pitch and plumb.
F. Rough-in domestic water piping for water-meter installation according to utility company's requirements.
G. Grooved Joints: Grooved join piping systems shall be installed in accordance with the manufacturer's guidelines and recommendations. All grooved couplings, fittings, valves and specialties shall be supplied by a single manufacturer. Grooving tools shall be supplied by the same manufacturer as the grooved components. The gasket style and elastomeric material (grade) shall be verified as suitable for the intended service as specified. Gaskets shall be supplied by the grooved coupling manufacturer. Grooves cut shall be clean and free from indentations, projections and roll marks in the area from pipe end to groove. A factory trained field representative shall provide on-site training to contractor's field personnel in the installation of grooved piping products. Factory trained representative shall periodically review the product installation. (A distributor's representative is not considered qualified to conduct the training). Contractor shall remove and replace any improperly installed products.

4.5 JOINT CONSTRUCTION
A. Basic piping joint construction requirements are specified in Division 22 Section "Basic Materials and Methods."
B. Soldered Joints: Use ASTM B 813, water-flushable, lead-free flux; ASTM B 32, lead-free alloys; and ASTM B 828 procedure, unless otherwise indicated.
C. Plastic Piping Solvent-Cement Joints: Clean and dry joining surfaces. Join pipe and fittings according to the following:
1. Comply with ASTM F 402 for safe-handling practice of cleaners, primers, and solvent cements. Apply primer.
2. CPVC Piping: Join according to ASTM D 2846/D 2846M Appendix.
3. PVC Piping: Join according to ASTM D 2855.

4.6 HANGER AND SUPPORT INSTALLATION

A. Pipe hanger and support devices are specified in Division 22 Section "Hangers and Supports." Install the following:
1. Vertical Piping: MSS Type 8 or Type 42, clamps.
2. Individual, Straight, Horizontal Piping Runs: According to the following:
a. 100 Feet and Less: MSS Type 1, adjustable, steel clevis hangers.
b. Longer Than 100 Feet : MSS Type 43, adjustable roller hangers.
c. Longer Than 100 Feet : MSS Type 49, spring cushion rolls, if indicated.
3. Multiple, Straight, Horizontal Piping Runs 100 Feet or Longer: MSS Type 44, pipe rolls. Support pipe rolls on trapeze.
4. Base of Vertical Piping: MSS Type 52, spring hangers.
B. Install supports according to Division 22 Section "Hangers and Supports."
C. Support vertical piping and tubing at base and at each floor.
D. Rod diameter may be reduced 1 size for double-rod hangers, to a minimum of 3/8 inch.
E. Install vertical rod hangers for CPVC piping with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 1 (DN 25) and Smaller: 36 inches (900 mm) with 3/8-inch (10-mm) rod.
2. NPS 1-1/4 to NPS 2 (DN 32 to DN 50): 48 inches (1200 mm) with 3/8-inch (10-mm) rod.
3. NPS 2-1/2 to NPS 3-1/2 (DN 65 to DN 90): 48 inches (1200 mm) with 1/2-inch (13-mm) rod.
4. NPS 4 and NPS 5 (DN 100 and DN 125): 48 inches (1200 mm) with 5/8-inch (16-mm) rod.
5. NPS 6 (DN 150): 48 inches (1200 mm) with 3/4-inch (19-mm) rod.
6. NPS 8 (DN 200): 48 inches (1200 mm) with 7/8-inch (22-mm) rod.
F. Install supports for vertical CPVC piping every 60 inches (1500 mm) for NPS 1 (DN 25) and smaller, and every 72 inches (1800 mm) for NPS 1-1/4 (DN 32) and larger.
G. Install vinyl-coated hangers for PEX piping with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 1 (DN 25) and Smaller: 32 inches (815 mm) with 3/8-inch (10-mm) rod.
H. Install hangers for vertical PEX piping every 48 inches (1200 mm).
I. Support piping and tubing not listed in this article according to MSS SP-69 and manufacturer's written instructions.
J. Install hangers for steel piping with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 1-1/4 and Smaller: 84 inches with 3/8-inch rod.
2. NPS 1-1/2 : 108 inches with 3/8-inch rod.
3. NPS 2 : 10 feet with 3/8-inch rod.
4. NPS 2-1/2: 11 feet with 1/2-inch rod.
5. NPS 3 and NPS 3-1/2 : 12 feet with 1/2-inch rod.
6. NPS 4 and NPS 5 : 12 feet with 5/8-inch rod.
7. NPS 6 : 12 feet with 3/4-inch rod.
K. Install supports for vertical steel piping every 15 feet.
L. Install hangers for copper tubing with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 3/4 and Smaller: 60 inches with 3/8-inch rod.
2. NPS 1 and NPS 1-1/4 : 72 inches with 3/8-inch rod.
3. NPS 1-1/2 and NPS 2 : 96 inches with 3/8-inch rod.
4. NPS 2-1/2 : 108 inches with 1/2-inch rod.
5. NPS 3 to NPS 5: 10 feet with 1/2-inch rod.
6. NPS 6 : 10 feet with 5/8-inch rod.
7. NPS 8 : 10 feet with 3/4-inch rod.
M. Install supports for vertical copper tubing every 10 feet .
N. Support piping and tubing not listed above according to MSS SP-69 and manufacturer's written instructions.

4.7 CONNECTIONS
A. Drawings indicate general arrangement of piping, fittings, and specialties.
B. Install piping adjacent to equipment and machines to allow service and maintenance.
C. Connect domestic water piping to exterior water-service piping. Use transition fitting to join dissimilar piping materials.
D. Connect domestic water piping to water-service piping with shutoff valve, and extend and connect to the following:
1. Booster Pumps: Cold-water suction and discharge piping.
2. Water Heaters: Cold-water supply and hot-water outlet piping in sizes indicated, but not smaller than sizes of water heater connections.
3. Plumbing Fixtures: Cold- and hot-water supply piping in sizes indicated, but not smaller than required by plumbing code. Refer to Division 22 Section "Plumbing Fixtures."
4. Equipment: Cold- and hot-water supply piping as indicated, but not smaller than equipment connections. Provide shutoff valve and union for each connection. Use flanges instead of unions for NPS 2-1/2 and larger.

4.8 PIPING SCHEDULE
A. Transition and special fittings with pressure ratings at least equal to piping rating may be used in applications below unless otherwise indicated.
B. Flanges, Victaulic grooved-joint couplings and unions may be used for aboveground piping joints unless otherwise indicated.
C. Under-building-slab, domestic water, building-service piping, 2" and smaller, shall be the following:
1. CPVC, Schedule 40 pipe socket fittings; and solvent-cemented joints.
D. Under-building-slab, domestic water piping, 2 ½" and larger, shall be the following:
1. CPVC, Schedule 80 pipe socket fittings; and solvent-cemented joints.
E. Aboveground domestic water piping, 2" and smaller, shall be the following:
1. CPVC, Schedule 40 pipe, socket fittings, and solvent-cemented joints.
2. CPVC, Schedule 80 pipe; CPVC, Schedule 80 threaded fittings; and threaded joints.
3. CPVC, (Schedule 40 pipe; CPVC, Schedule 40) grooved fittings; grooved joints.
4. CPVC Tubing System: CPVC tube; CPVC socket fittings; and solvent-cemented joints. CPVC pipe with CPVC socket fittings may be used instead of tubing.
5. PEX Tube; fittings for PEX tube; and crimped or cold-expansion joints.
F. Aboveground domestic water piping, 2 ½" and larger, shall be the following:
1. CPVC, Schedule 80 pipe socket fittings; and solvent-cemented joints.
2. CPVC, Schedule 80 pipe; CPVC, Schedule 80 threaded fittings; and threaded joints.
3. CPVC, Schedule 80 pipe; CPVC, Schedule 80 grooved fittings; grooved joints.
4. Stainless Steel, Schedule 10 stainless-steel pipe; grooved-joint fittings; grooved joints

4.9 VALVE SCHEDULE
A. Drawings indicate valve types to be used. Where specific valve types are not indicated, the following requirements apply:
1. Shutoff Duty: Use ball or gate valves for piping NPS 2 (DN 50) and smaller. Use butterfly, ball, or gate valves with flanged or grooved ends for piping NPS 2-1/2 (DN 65) and larger.
2. Throttling Duty: Use ball or globe valves for piping NPS 2 (DN 50) and smaller. Use butterfly or ball valves with flanged or grooved ends for piping NPS 2-1/2 (DN 65) and larger.
3. Hot-Water Circulation Piping, Balancing Duty: Calibrated manual or automatic balancing valves or CircuitSolver.
4. Drain Duty: Hose-end drain valves.
B. Use check valves to maintain correct direction of domestic water flow to and from equipment.
C. Ductile-Iron, Stainless Steel and cast brass grooved-end valves may be used with grooved-end piping systems of steel, stainless steel, copper and CPVC.
D. CPVC valves matching piping materials may be used.

4.10 FIELD QUALITY CONTROL
A. Portions of testing and inspection requirements in this Article are taken from model plumbing codes. Edit if requirements vary.
B. Inspect domestic water piping as follows:
1. Do not enclose, cover, or put piping into operation until it has been inspected and approved by authorities having jurisdiction.
2. During installation, notify authorities having jurisdiction at least 24 hours before inspection must be made. Perform tests specified below in presence of authorities having jurisdiction:
a. Roughing-in Inspection: Arrange for inspection of piping before concealing or closing-in after roughing-in and before setting fixtures.
b. Final Inspection: Arrange final inspection for authorities having jurisdiction to observe tests specified below and to ensure compliance with requirements.
3. Reinspection: If authorities having jurisdiction find that piping will not pass test or inspection, make required corrections and arrange for reinspection.
4. Reports: Prepare inspection reports and have them signed by authorities having jurisdiction.
C. Test domestic water piping as follows:
1. Fill domestic water piping. Check components to determine that they are not air bound and that piping is full of water.
2. Test for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested.
3. Leave new, altered, extended, or replaced domestic water piping uncovered and unconcealed until it has been tested and approved. Expose work that was covered or concealed before it was tested.
4. Cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for four hours. Leaks and loss in test pressure constitute defects that must be repaired.
5. Repair leaks and defects with new materials and retest piping or portion thereof until satisfactory results are obtained.
6. Prepare reports for tests and required corrective action.

4.11 ADJUSTING
A. Perform the following adjustments before operation:
1. Close drain valves, hydrants, and hose bibbs.
2. Open shutoff valves to fully open position.
3. Open throttling valves to proper setting.
4. Adjust balancing valves in hot-water-circulation return piping to provide adequate flow.
a. Manually adjust ball-type balancing valves in hot-water-circulation return piping to provide flow of hot water in each branch.
b. Adjust calibrated balancing valves to provide flow of hot water in all branches.
5. Remove plugs used during testing of piping and plugs used for temporary sealing of piping during installation.
6. Remove and clean strainer screens. Close drain valves and replace drain plugs.
7. Remove filter cartridges from housings and verify that cartridges are as specified for application where used and are clean and ready for use.
8. Check plumbing specialties and verify proper settings, adjustments, and operation.

4.12 CLEANING
A. Prepare and submit reports of purging and disinfecting activities.
B. Clean interior of domestic water piping system. Remove dirt and debris as work progresses.

END OF SECTION 221116

SECTION 221316 - SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL

1.1 SUBMITTALS
A. Product Data: For pipe, tube, fittings, and couplings.
B. Shop Drawings:
1. Design Calculations: Signed and sealed by a qualified professional engineer for selecting seismic restraints.
C. Field quality-control inspection and test reports.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
A. The following requirements apply to product selection:
1. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.

2.2 PVC PIPE AND FITTINGS
A. Solid-Wall Schedule 40 PVC Pipe: ASTM D 2665, drain, waste, and vent.
1. PVC Socket Fittings: ASTM D 2665, socket type, made to ASTM D 3311, drain, waste, and vent patterns.

2.3 SPECIAL PIPE FITTINGS
A. Flexible, Nonpressure Pipe Couplings: Comply with ASTM C 1173, elastomeric, sleeve-type, reducing or transition pattern. Include shear ring, ends of same sizes as piping to be joined, and corrosion-resistant-metal tension band and tightening mechanism on each end.
1. Manufacturers:
a. Fernco, Inc.
b. Mission Rubber Co.
2. Sleeve Materials:
a. For Cast-Iron Soil Pipes: ASTM C 564, rubber.
b. For Plastic Pipes: ASTM F 477, elastomeric seal or ASTM D 5926, PVC.
c. For Dissimilar Pipes: ASTM D 5926, PVC or other material compatible with pipe materials being joined.
B. Shielded Nonpressure Pipe Couplings: ASTM C 1460, elastomeric or rubber sleeve with full-length, corrosion-resistant outer shield and corrosion-resistant-metal tension band and t ightening mechanism on each end.
1. Manufacturers:
a. Mission Rubber Co.
C. Pressure Pipe Couplings: AWWA C219 metal, sleeve-type same size as, with pressure rating at least equal to, and ends compatible with, pipes to be joined.
1. Manufacturers:
a. Dresser, Inc.; DMD Div.
b. Romac Industries, Inc.
2. Center-Sleeve Material: Stainless steel.
3. Gasket Material: Natural or synthetic rubber.
4. Metal Component Finish: Corrosion-resistant coating or material.
D. Expansion Joints: Two or three-piece, ductile-iron assembly consisting of telescoping sleeve(s) with gaskets and restrained-type, ductile-iron, bell-and-spigot end sections complying with AWWA C110 or AWWA C153. Select and assemble components for expansion indicated. Include AWWA C111, ductile-iron glands, rubber gaskets, and steel bolts.
1. Manufacturers:
a. EBAA Iron Sales, Inc.
b. Romac Industries, Inc.
c. Star Pipe Products; Star Fittings Div.
E. Wall-Penetration Fittings: Compound, ductile-iron coupling fitting with sleeve and flexing sections for up to 20-degree deflection, gaskets, and restrained-joint ends complying with AWWA C110 or AWWA C153. Include AWWA C111, ductile-iron glands, rubber gaskets, and steel bolts.
1. Manufacturers:
a. SIGMA Corp.

PART 3 - EXECUTION

3.1 PIPING APPLICATIONS
A. Flanges and unions may be used on aboveground pressure piping, unless otherwise indicated.
B. Aboveground, soil, waste and vent piping NPS 6 and smaller shall be any of the following:
1. Solid-wall PVC pipe, PVC socket fittings, and solvent-cemented joints (non-return air plenum locations only, verify all locations prior to purchase).
2. Dissimilar Pipe-Material Couplings: Flexible, Shielded, nonpressure pipe couplings for joining dissimilar pipe materials with small difference in OD.
C. Underground, soil, waste, and vent piping NPS 6 and smaller shall be any of the following:
1. Solid wall PVC pipe, PVC socket fittings, and solvent-cemented joints.
2. Sewer and Drain Series, PVC pipe; PVC socket fittings, and solvent-cemented joints.
3. Dissimilar Pipe-Material Couplings: Flexible, Shielded, nonpressure pipe couplings f or joining dissimilar pipe materials with small difference in OD.

3.2 PIPING INSTALLATION
A. Install cleanouts at grade and extend to where building sanitary drains connect to building sanitary sewers.
B. Install cast-iron sleeve with water stop and mechanical sleeve seal at each service pipe penetration through foundation wall. Select number of interlocking rubber links required to make installation watertight. Sleeves and mechanical sleeve seals are specified in Division 15 Section "Basic Mechanical Materials and Methods."
C. Install wall-penetration fitting at each service pipe penetration through foundation wall. Make installation watertight.
D. Make changes in direction for soil and waste drainage and vent piping using appropriate branches, bends, and long-sweep bends. Sanitary tees and short-sweep 1/4 bends may be used on vertical stacks if change in direction of flow is from horizontal to vertical. Use long-turn, double Y-branch and 1/8-bend fittings if 2 fixtures are installed back to back or side by side with common drain pipe. Straight tees, elbows, and crosses may be used on vent lines. Do not change direction of flow more than 90 degrees. Use proper size of standard increasers and reducers if pipes of different sizes are connected. Reducing size of drainage piping in direction of flow is prohibited.
E. Lay buried building drainage piping beginning at low point of each system. Install true to grades and alignment indicated, with unbroken continuity of invert. Place hub ends of piping upstream. Install required gaskets according to manufacturer's written instructions for use of lubricants, cements, and other installation requirements. Maintain swab in piping and pull past each joint as completed.
F. Install soil and waste drainage and vent piping at the following minimum slopes, unless otherwise indicated:
1. Building Sanitary Drain: 2 percent downward in direction of flow for piping NPS 3 and smaller; 1 percent downward in direction of flow for piping NPS 4 and larger.
2. Horizontal Sanitary Drainage Piping: 2 percent downward in direction of flow.
3. Vent Piping: 1 percent down toward vertical fixture vent or toward vent stack.
G. Install engineered soil and waste drainage and vent piping systems as follows:
1. Combination Waste and Vent: Comply with standards of authorities having jurisdiction.
2. Sovent Drainage System: Comply with ASSE 1043 and sovent fitting manufacturer's written installation instructions.
H. Install PVC soil and waste drainage and vent piping according to ASTM D 2665.
I. Install underground PVC soil and waste drainage piping according to ASTM D 2321.
J. Do not enclose, cover, or put piping into operation until it is inspected and approved by authorities having jurisdiction.

3.3 JOINT CONSTRUCTION

A. Soldered Joints: Use ASTM B 813, water-flushable, lead-free flux; ASTM B 32, lead-free-alloy solder; and ASTM B 828 procedure, unless otherwise indicated.
B. PVC Nonpressure Piping Joints: Join piping according to ASTM D 2665.

3.4 HANGER AND SUPPORT INSTALLATION

A. Pipe hangers and supports are specified in Division 15 Section "Hangers and Supports." Install the following:
1. Vertical Piping: MSS Type 8 or Type 42, clamps.
2. Install individual, straight, horizontal piping runs according to the following:
a. 100 Feet and Less: MSS Type 1, adjustable, steel clevis hangers.
b. Longer Than 100 Feet : MSS Type 43, adjustable roller hangers.
c. Longer Than 100 Feet , if Indicated: MSS Type 49, spring cushion rolls.
3. Multiple, Straight, Horizontal Piping Runs 100 Feet or Longer: MSS Type 44, pipe rolls. Support pipe rolls on trapeze.
4. Base of Vertical Piping: MSS Type 52, spring hangers.
B. Install supports according to Division 15 Section "Hangers and Supports."
C. Support vertical piping and tubing at base and at each floor.
D. Rod diameter may be reduced 1 size for double-rod hangers, with 3/8-inch minimum rods.
E. Install hangers for copper tubing with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 1-1/4 : 72 inches with 3/8-inch rod.
2. NPS 1-1/2 and NPS 2 : 96 inches with 3/8-inch rod.
3. NPS 2-1/2: 108 inches with 1/2-inch rod.
4. NPS 3 to NPS 5 : 10 feet with 1/2-inch rod.
5. NPS 6 : 10 feet with 5/8-inch rod.
6. NPS 8 : 10 feet with 3/4-inch rod.
F. Install supports for vertical copper tubing every 10 feet .
G. Install hangers for PVC piping with the following maximum horizontal spacing and minimum rod diameters:
1. NPS 1-1/2 and NPS 2 : 48 inches with 3/8-inch rod.
2. NPS 3 : 48 inches with 1/2-inch rod.
3. NPS 4 and 5 : 48 inches with 5/8-inch rod.
4. NPS 6 : 48 inches with 3/4-inch rod.
5. NPS 8 to NPS 12 : 48 inches with 7/8-inch rod.
H. Install supports for vertical PVC piping every 48 inches.
I. Support piping and tubing not listed above according to MSS SP-69 and manufacturer's written instructions.

3.5 CONNECTIONS
A. Drawings indicate general arrangement of piping, fittings, and specialties.
B. Connect soil and waste piping to exterior sanitary sewerage piping. Use transition fitting to join dissimilar piping materials.
C. Connect drainage and vent piping to the following:
1. Plumbing Fixtures: Connect drainage piping in sizes indicated, but not smaller than required by plumbing code.
2. Plumbing Fixtures and Equipment: Connect atmospheric vent piping in sizes indicated, but not smaller than required by authorities having jurisdiction.
3. Plumbing Specialties: Connect drainage and vent piping in sizes indicated, but not smaller than required by plumbing code.

END OF SECTION 221316

SECTION 221319 - DRAINAGE PIPING SPECIALTIES

PART 1 - GENERAL

1.1 SUBMITTALS
A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, and accessories for the following:
1. Backwater valves.
2. Cleanouts.
3. Floor drains.
4. Roof Drains.
5. Through-penetration firestop assemblies.
6. Miscellaneous drainage piping specialties.
7. Flashing materials.
B. Operation and Maintenance Data: For drainage piping specialties to include in emergency, operation, and maintenance manuals.

PART 2 - PRODUCTS

2.1 BACKWATER VALVES
A. Horizontal, PVC Backwater Valves
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:
a. Canplas Industries
b. Plastic Trends
c. Flo Control, Inc.
4. Approvals: BOCA, CSA, IAPMO, SBCC1
5. Size: Same as connected piping.
6. Body: PVC
7. End Connections: hubless.
8. Type Check Valve: Removable, bronze, swing check, factory assembled or field modified to hang closed.
9. Extension: ASTM A 74, Service class; full-size, PVC, soil-pipe extension to field-installed cleanout at floor; replaces backwater valve cover.

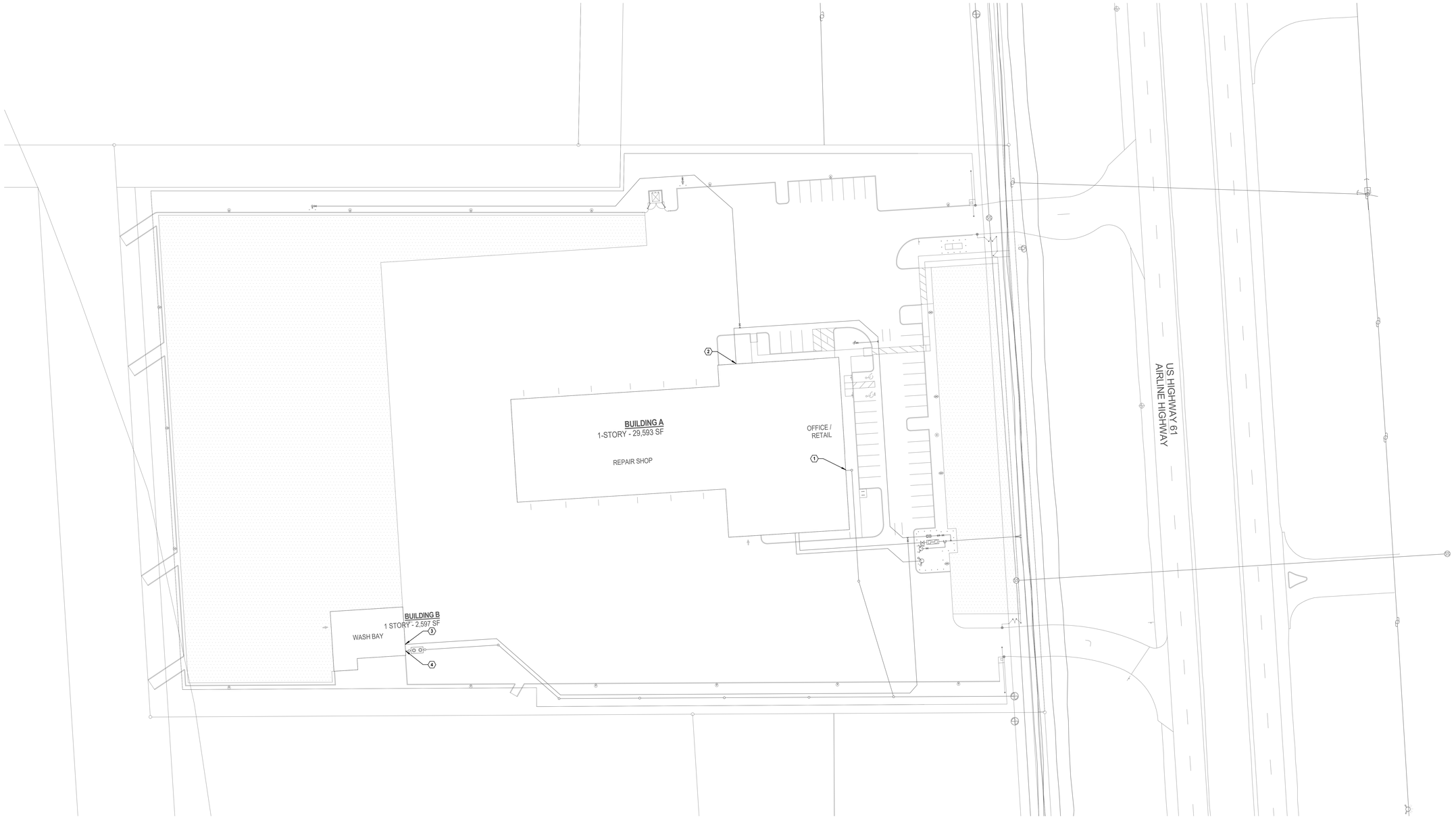
2.2 CLEANOUTS.
A. Exposed Metal Cleanouts:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:
a. Josam Company; Josam Div.
b. Smith, Jay R. Mfg. Co.; Division of Smith Industries, Inc.
c. Zurn Plumbing Products Group; Specification Drainage Operation.
4. Standard: ASME A112.36.2M for cast iron for cleanout test tee.
5. Size: Same as connected drainage piping
6. Body Material: Hubless, cast-iron soil pipe test tee as required to match connected piping.
7. Closure: Countersunk or raised-head, brass plug.
8. Closure Plug Size: Same as or not more than one size smaller than cleanout size.
9. Closure: Stainless-steel plug with seal.

2.3 FLOOR DRAINS
A. Cast-Iron Floor Drains:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide a comparable product by one of the following:
a. Josam Company; Josam Div.
b. Smith, Jay R. Mfg. Co.; Division of Smith Industries, Inc.
c. Zurn Plumbing Products Group; Light Commercial Operation.
4. Standard: ASME A112.6.3.
5. Pattern: Floor drain.
6. Body Material: Cast iron.
7. Seepage Flange: Required.
8. Anchor Flange: Required.
9. Clamping Device: Required.
10. Outlet: Bottom.
11. Coating on Interior and Exposed Exterior Surfaces: Acid-resistant enamel.
12. Top or Strainer Material: Nickel bronze
13. Top of Body and Strainer Finish: Nickel bronze
14. Top Shape: Square
15. Top Loading Classification: Heavy Duty.
16. Trap Material: Cast iron.
17. Trap Pattern: Deep-seal P-trap.
18. Trap Features: Trap-seal primer valve drain connection.

2.4 ROOF DRAINS
A. Metal Roof Drains:
1. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
3. Basis-of-Design Product: Subject to compliance with requirements, provide or a comparable product by one of the following:
a. Josam Company; Josam Div.
b. Smith, Jay R. Mfg. Co.; Division of Smith Industries, Inc.
c. Zurn Plumbing Products Group; Light Commercial Operation.
4. Standard: ASME A112.21.2M.
5. Pattern: Roof drain.
6. Body

REFERENCE NOTES

1. 4" UNDERGROUND SANITARY. REFER TO CIVIL FOR CONTINUATION.
2. PROPOSED 3" DOMESTIC WATER SERVICE BELOW GRADE. COORDINATE EXACT WATER ENTRANCE LOCATION WITH OWNER/ARCHITECT. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
3. PROPOSED 2" DOMESTIC WATER SERVICE BELOW GRADE. COORDINATE EXACT WATER ENTRANCE LOCATION WITH OWNER/ARCHITECT. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
4. 4" UNDERGROUND SANITARY. REFER TO CIVIL FOR CONTINUATION.



1 SITE PLAN - PLUMBING
PS.10 1" = 30'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description

Submissions & Revisions

Owner

W P I
A PEARCE INDUSTRIES COMPANY
12324 SOUTH MAIN
HOUSTON, TX 77035
PHONE: (832)448-8448

Owner's Representative

CPRT
COMMERCIAL PROPERTIES REALTY TRUST
4121 Main Street
Baton Rouge, LA 70820
Phone: (225) 924-7206

Architect

ANTUNOVICH ASSOCIATES
ARCHITECTURE · PLANNING · INTERIOR DESIGN
224 W Huron Street
Chicago, Illinois 60654
Main: 312.266.1126
Fax: 312.266.7123

Civil Engineer

M c A D A M S
621 HILLSBOROUGH STREET, SUITE 500
RALEIGH, NC 27603
PHONE: (919)287.0804

Structural Engineer

raSmith
CREATIVITY BEYOND ENGINEERING
16745 W. BLUEMOUND ROAD
BROOKFIELD, WI 53005-5938
(262)781.1000 - rasmith.com

M.E.P. & F.P. Engineers

C## 5276 I24249.00

INGENUITY ENGINEERS, INC.
"PROACTIVE ENGINEERING SOLUTIONS"
8275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.598.6907

General Contractor

Project Location

W P I - B A T O N R O U G E
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

SITE PLAN - PLUMBING

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:

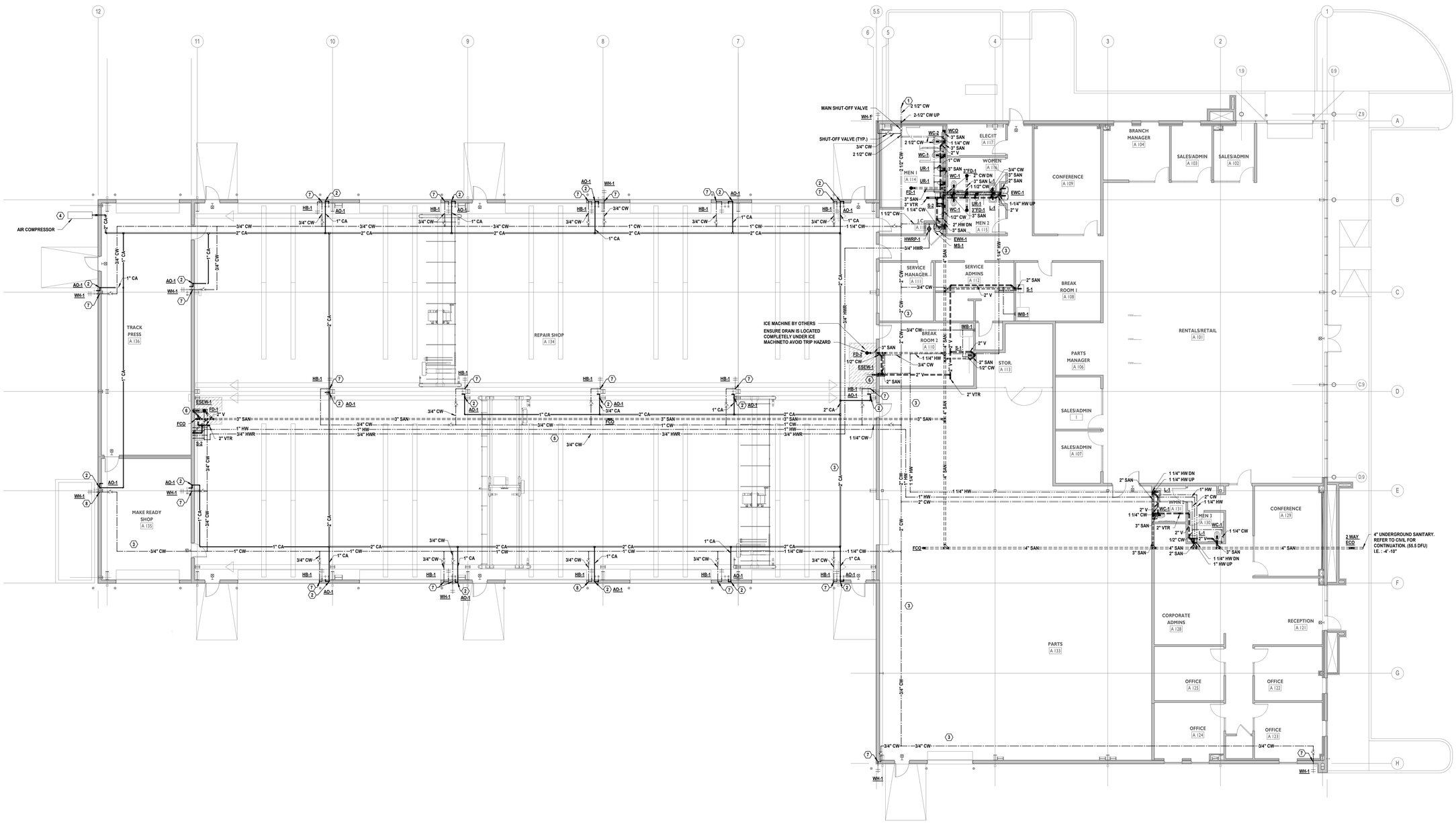
Drawing No.

P0.10

Copyright 2025

REFERENCE NOTES

1. PROPOSED 2-1/2" DOMESTIC WATER SERVICE (171 SFU'S). BELOW GRADE. COORDINATE EXACT WATER ENTRANCE WITH OWNER/ARCHITECT. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
2. 1" COMPRESSED AIR DOWN TO AIR OUTLET. SEE DETAIL ON SHEET P6.01.
3. ROUTE PIPING ABOVE CEILING TIGHT TO STRUCTURE. FIELD VERIFY CEILING HEIGHTS. PROVIDE SUPPORT AND HANGERS AS REQUIRED, TYPICAL.
4. PROPOSED AIR COMPRESSOR LOCATION. AIR COMPRESSOR PIPING AND ACCESSORIES PROVIDED AND INSTALLED BY CONTRACTOR. FIELD VERIFY EXACT LOCATION. DRAIN TO GROUND. AIR COMPRESSOR BY OWNER.
5. ROUTE PIPE TIGHT TO STRUCTURE. PROVIDE PIPE SUPPORTS AS REQUIRED.
6. 3/4" CW AND HW TO MIXING VALVE ABOVE CEILING. RUN 3/4" TEMPERED WATER DOWN TO EMERGENCY STATION. SEE ESEW-1 IN PLUMBING FIXTURE SCHEDULE.
7. 3/4" CW DOWN TO HYDRANT.



1 BUILDING A FLOOR PLAN - PLUMBING
P2.10 1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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C&M 5276 — 124249.00

INGENUITY ENGINEERS, INC.
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6275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.398.6007

General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - PLUMBING

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

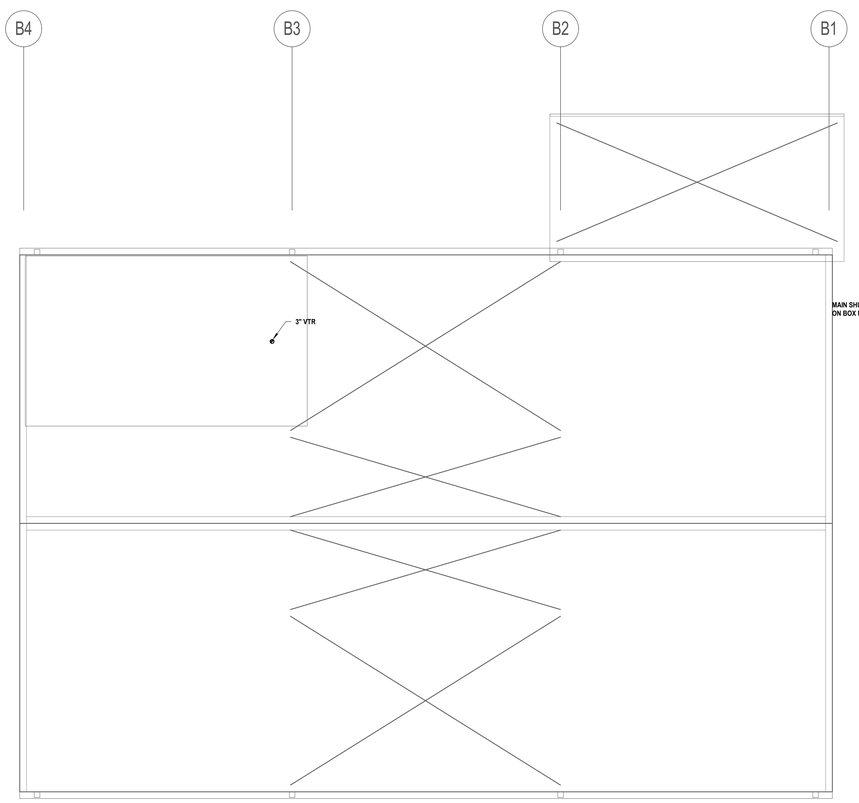
Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:

Drawing No.
P2.10

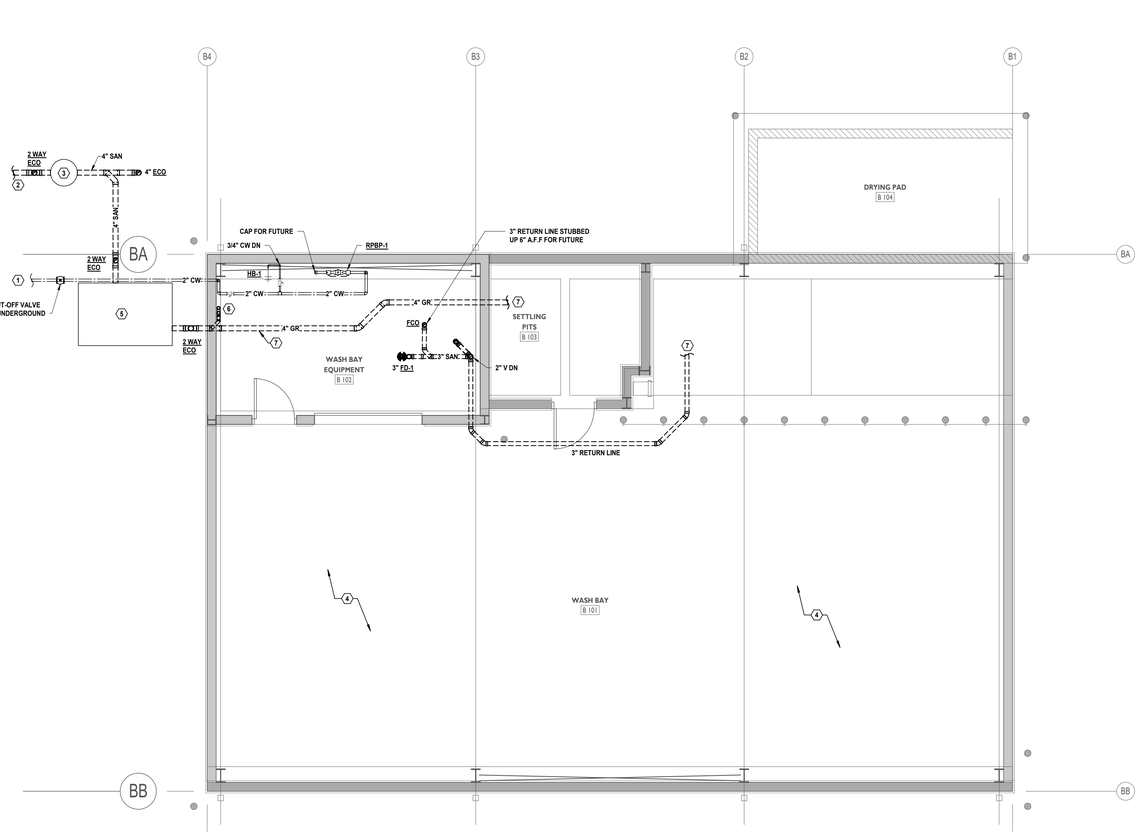
Copyright 2025

REFERENCE NOTES

1. PROPOSED 2" DOMESTIC WATER SERVICE. BELOW GRADE. COORDINATE EXACT WATER ENTRANCE WITH OWNER/ARCHITECT. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
2. 4" SANITARY SEWER BELOW GRADE, REFER TO CIVIL SITE PLAN FOR CONTINUATION.
3. PROVIDE SAMPLE WELL AS REQUIRED PER LOCAL CODE.
4. REFER TO STRUCTURAL SHEETS FOR MORE INFORMATION ON DRIVE PIT, SETTLING PITS, AND SLOPED MAIN WASH BAY SPACE.
5. PROVIDE GAINEY'S GCP-750OWS CONCRETE OIL INTERCEPTOR. FIELD COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT. SEE SHEET P0.01 FOR MORE INFORMATION.
6. PROVIDE 2" SUCTION LINE HUB DRAIN, STUBBED-UP APPROXIMATELY 6" ABOVE GRADE AS REQUIRED PER WASH BAY DETAILED DRAWINGS. FIELD COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
7. PROVIDE DRAIN PIPING AS REQUIRED PER WASH BAY DRAWINGS. FIELD COORDINATE EXACT ROUTING WITH OWNER/ARCHITECT.



2 BUILDING B ROOF PLAN - PLUMBING
P2.11 1/4" = 1'-0"



1 BUILDING B FLOOR PLAN - PLUMBING
P2.11 1/4" = 1'-0"

ISSUED FOR PERMIT

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General Notes:

No.	Date	Description
		Submissions & Revisions

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General Contractor

Project Location

W P I - B A T O N R O U G E
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BATON ROUGE, LA 70817

Drawing Title

BUILDING B FLOOR PLANS - PLUMBING

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:

Drawing No.

P2.11

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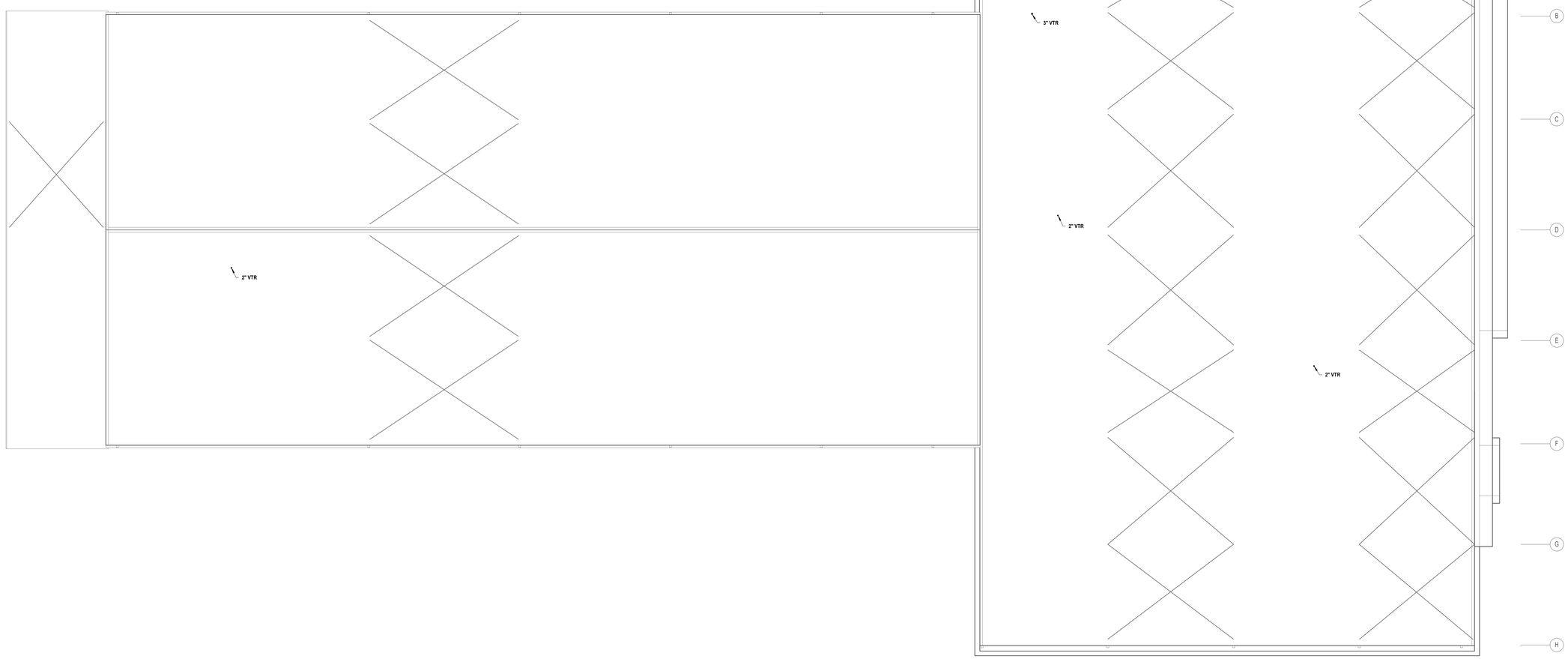

1 P3.10 BUILDING A ROOF PLAN - PLUMBING
1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A ROOF PLAN - PLUMBING

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:

Drawing No. P3.10

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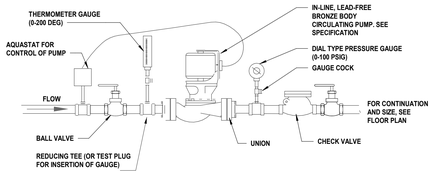
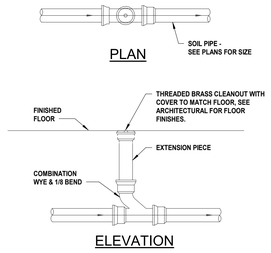
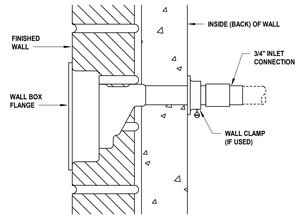


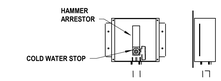
1 P6.01 HOT WATER RECIRCULATION PUMP DETAIL
SCALE: NTS



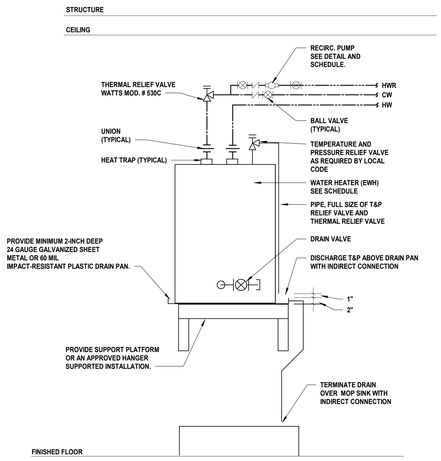
2 P6.01 FLOOR CLEANOUT DETAIL
SCALE: NTS



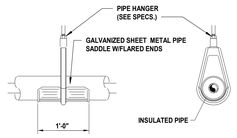
3 P6.01 FREEZEPROOF WALL HYDRANT
SCALE: NTS



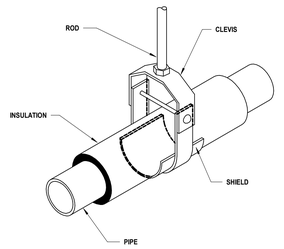
4 P6.01 ICE MAKER BOX DETAIL
SCALE: NTS



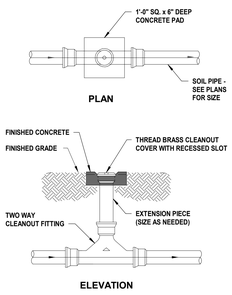
8 P6.01 LOWBOY ELECTRIC WATER HEATER WITH RECIRCULATING PUMP ABOVE MOP SINK DETAIL
SCALE: NTS



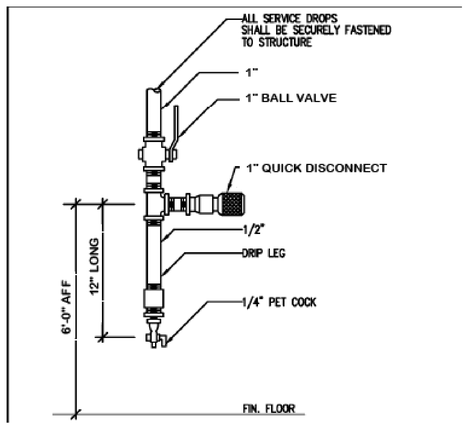
5 P6.01 INSULATED PIPE HANGER DETAIL
SCALE: NTS



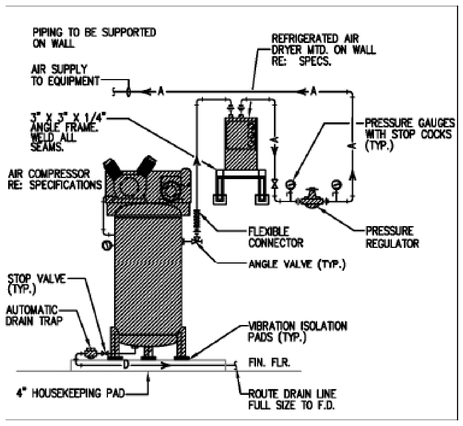
6 P6.01 PIPE SUPPORT DETAIL
SCALE: NTS



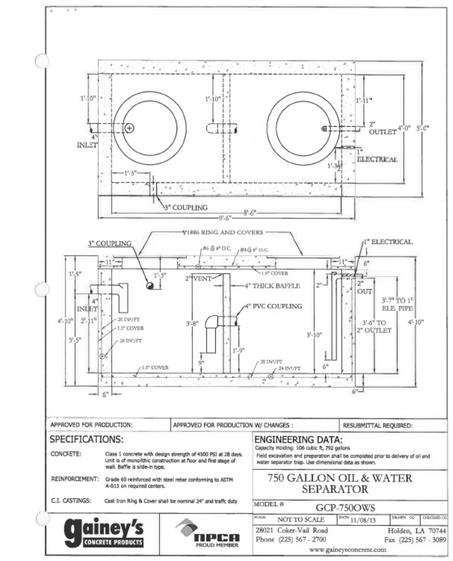
7 P6.01 TWO WAY EXTERIOR CLEANOUT DETAIL
SCALE: NTS



9 P6.01 (A O-1) COMPRESSED AIR OUTLET DETAIL
SCALE: NTS



10 P6.01 AIR COMPRESSOR DETAIL (VERT.)
SCALE: NTS



11 P6.01 Typical OWS profile
SCALE: 12" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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General Contractor

Project Location
WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title
PLUMBING DETAILS

Seal
STATE OF LOUISIANA
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License No. 37810
PROFESSIONAL ENGINEER
10/7/2025
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: AAS
Checked By: BSH
Project No:
Drawing No.
P6.01

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ELECTRICAL SYMBOLS LEGEND

(REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. NOT ALL SYMBOLS ARE NECESSARILY USED IN THIS PROJECT)

LIGHTING (SEE LIGHTING FIXTURE SCHEDULE)

- 2'X 2' LIGHT FIXTURE
- EMERGENCY 2' x 2' LIGHT FIXTURE WITH INTEGRAL EMERGENCY BACKUP
- 2'X 4' LIGHT FIXTURE
- EMERGENCY 2' x 4' LIGHT FIXTURE WITH INTEGRAL EMERGENCY BACKUP
- 1'X 4' LIGHT FIXTURE
- EMERGENCY 1'X 4' LIGHT FIXTURE WITH INTEGRAL EMERGENCY BACKUP
- LIGHT FIXTURE - WALL MOUNTED
- EMERGENCY LIGHT FIXTURE - WALL MOUNTED WITH INTEGRAL EMERGENCY BACKUP
- STRIP LIGHT
- EMERGENCY STRIP LIGHT WITH INTEGRAL EMERGENCY BACKUP
- DOWNLIGHT LIGHT FIXTURE
- EMERGENCY DOWNLIGHT LIGHT FIXTURE WITH INTEGRAL EMERGENCY BACKUP
- LIGHT FIXTURE - WALL MOUNTED
- EMERGENCY LIGHT FIXTURE - WALL MOUNTED WITH INTEGRAL EMERGENCY BACKUP
- WALL WASH / ACCENT FIXTURE - CEILING MOUNTED
- EXIT SIGN - SINGLE FACE ARROW INDICATES DIRECTION - CEILING MOUNTED-WITH INTEGRAL EMERGENCY BACKUP
- EXIT SIGN - SINGLE FACE - ARROW INDICATES DIRECTION - WALL MOUNTED - WITH INTEGRAL EMERGENCY BACKUP
- EXIT SIGN - DOUBLE FACE - ARROW INDICATES DIRECTION - CEILING MOUNTED - WITH INTEGRAL EMERGENCY BACKUP
- COMBINATION EXIT SIGN AND EMERGENCY LIGHT - SINGLE FACE WITH DUAL HEADS - WITH INTEGRAL EMERGENCY BACKUP
- EMERGENCY LIGHT WITH INTEGRAL EMERGENCY BACKUP - DUAL HEAD
- DECORATIVE PENDANT
- LIGHT TRACK - CEILING MOUNTED

SWITCHES

- S — SINGLE POLE SWITCH - TOGGLE TYPE - MOUNT AT 48" AFF
  - (3) 3 WAY
  - (4) 4 WAY
  - (2) DOUBLE POLE
  - (P) WITH PILOT LIGHT INDICATION
  - (K) KEY OPERATED
  - (D) DIMMER OPERATED
  - (M) MOTOR RATED SWITCH - 1 POLE OR 2 POLE 30 AMP WITH INTEGRAL THERMAL OVERLOADS
  - (OS) WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH
- (OS)* — CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, "*" INDICATES FIXTURES IN SENSOR'S ZONE OF CONTROL.
- (OS)* — CEILING MOUNTED DAYLIGHT SENSOR, "*" INDICATES FIXTURES IN SENSOR'S ZONE OF CONTROL. SENSOR TO AUTO-DIM FIXTURES WITHIN BUILDING CODE PRESCRIBED DAYLIGHT ZONE.

SERVICE AND DISTRIBUTION

- BRANCH CIRCUIT PANELBOARD, 120/208V, SURFACE MOUNTED, UNLESS OTHERWISE NOTED
- BRANCH CIRCUIT PANELBOARD, 277/480V, SURFACE MOUNTED, UNLESS OTHERWISE NOTED
- 3 30 — FUSED DISCONNECT SWITCH
  - (3) NUMBER OF POLES
  - (30) AMPERAGE SIZE
  - (*) FUSE ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
  - (NF) NON FUSED
  - (WP) OUTDOOR RATED AS SPECIFIED ON DRAWINGS

  NEMA 1 RATED INDOORS, NEMA 3R RATED OUTDOORS UNLESS OTHERWISE NOTED.
- 3 30 — COMBINATION STARTER/DISCONNECT SWITCH
  - (3) NUMBER OF POLES
  - (30) AMPERAGE SIZE
  - (*) FUSE ACCORDING TO MANUFACTURERS RECOMMENDATIONS.
  - (NF) NON FUSED
  - (WP) OUTDOOR RATED AS SPECIFIED ON DRAWINGS

  NEMA 1 RATED INDOORS, NEMA 3R RATED OUTDOORS UNLESS OTHERWISE NOTED.
- UTILITY TRANSFORMER
- T — DRY TYPE TRANSFORMER
- SPD — SURGE PROTECTION DEVICE
- GB — GROUND BAR
- VFD — VARIABLE FREQUENCY DRIVE

DATA/COMM

- DATA/COMM OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANG JUNCTION BOX. MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED. PROVIDE BLANK STAINLESS STEEL COVER PLATE. EXTEND 1" CONCEALED CONDUIT TO ABOVE ACCESSIBLE CEILING AND STUB-OUT WITH PLASTIC BUSHING, OR AS NOTED; INSTALL PULL WIRE.
  - (WH) WALL MOUNTED
  - (AC) 6" ABOVE COUNTER BACK SPLASH
  - (TV) TV - REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT
- DATA/COMM OUTLET FLUSH MOUNTED IN FLOOR
- TV — TELEVISION OUTLET - MOUNT 18 " ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED
- SMC — STRUCTURED MEDIA COMPONENT FLUSH MTD. BOX FOR RESIDENTIAL USE PROVIDED AND INSTALLED BY CONTRACTOR - MOUNT 48" AFF TO BOARD, UNLESS OTHERWISE NOTED
- TELEPHONE TERMINAL BOARD
- CR — CARD READER - MOUNT 48" AFF, UNLESS OTHERWISE NOTED

POWER

- DUPLEX RECEPTACLE - MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED
  - (WP) WEATHERPROOF
  - (H) HORIZONTALLY MOUNTED
  - (C) CEILING MOUNTED
- DOUBLE DUPLEX RECEPTACLE - MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED
- "GFI" DUPLEX RECEPTACLE/GROUND FAULT INTERRUPTING, COUNTER HEIGHT
- WP — "GFI" DUPLEX RECEPTACLE/GROUND FAULT INTERRUPTING/WEATHERPROOF COVER - MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED
- "GFI" DOUBLE DUPLEX RECEPTACLE/GROUND FAULT INTERRUPTING - MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED
- "GFI" DOUBLE DUPLEX RECEPTACLE/GROUND FAULT INTERRUPTING, COUNTER HEIGHT
- DUPLEX RECEPTACLE - TOP HALF SWITCHED - MOUNT AT 18" AFF, UNLESS OTHERWISE NOTED
- DUPLEX RECEPTACLE, COUNTER HEIGHT
- DOUBLE DUPLEX RECEPTACLE, COUNTER HEIGHT
- DUPLEX RECEPTACLE , COMMUNICATIONS AND DATA OUTLETS MOUNTED TOGETHER IN A FLUSH MOUNTED FLOOR BOX. BOX TO HAVE A LISTED DIVIDER BETWEEN LINE VOLTAGE AND LOW VOLTAGE CONNECTIONS.
- DUPLEX RECEPTACLE - FLUSH MOUNTED IN FLOOR BOX
- DOUBLE DUPLEX RECEPTACLE MOUNTED TOGETHER IN A FLUSH MOUNTED FLOOR BOX
- 00 / 00 — SPECIAL PURPOSE OUTLET - COORDINATE EXACT NEMA CONFIGURATION AMPACITY RATING AS INDICATED
- J F — CEILING FAN JUNCTION BOX (SIZE AS REQUIRED PER N.E.C.)
- J — WALL MOUNTED JUNCTION BOX (SIZE AS REQUIRED PER N.E.C.)
- J C — CEILING MOUNTED JUNCTION BOX (SIZE AS REQUIRED PER N.E.C.)
- EF — MOTOR
  - (EF) EXHAUST FAN
  - (AHU) AIR HANDLING UNIT
- PC — PHOTO CELL
- LC-* — LIGHTING CONTACTOR - * DENOTES CONTACTOR NUMBER
- TC — TIME CLOCK
- METER SOCKET
- WP — ELECTRICAL SERVICE SHUNT TRIP BREAK GLASS STATION SQUARE "D" CLASS#900 1-K15 W/ CLASS 9001-K25 STAINLESS STEEL COVER PLATE. ENGRAVE "SERVICE DISCONNECT" MOUNT 7'-0" AFF. WITHIN WEATHERPROOF KNOX BOX HOUSING
- TS — SPRINKLER TAMPER SWITCH CONNECTION
- FS — SPRINKLER WATERFLOW SWITCH CONNECTION
- PIV — POST INDICATOR VALVE
- FSD — FIRE/SMOKE OR SMOKE DAMPER FIRE ALARM CONNECTION. PROVIDE FIRE ALARM SYSTEM ADDRESSABLE SMOKE DETECTOR WITHIN 60" OF DAMPER LOCATION. PROVIDE 120V/20A POWER CONNECTION TO EACH DAMPER. SMOKE DETECTOR SHALL HAVE ADDRESSABLE RELAY BASE OR CONTROL MODULE TO ACTIVATE DAMPER SHOWN ON DRAWINGS. REFER TO MECHANICAL DRAWINGS FOR EXACT DAMPER LOCATIONS.

FIRE ALARM

- F — MANUAL PULL STATION - MOUNT AT 48" AFF
- F — COMBINATION AUDIBLE/VISUAL SIGNALING UNIT- SPEAKER/FLASHING "FIRE" LIGHT WALL - MOUNTED 96" AFF UNLESS OTHERWISE NOTED. 75 CANDELA UNLESS NOTED OTHERWISE
  - (WP) WEATHER PROOF
  - (A) AUDIBLE ONLY.
- F C — COMBINATION AUDIBLE/VISUAL SIGNALING UNIT CEILING MOUNTED- SPEAKER/FLASHING "FIRE" LIGHT 75 CANDELA UNLESS NOTED OTHERWISE
  - (WP) WEATHER PROOF
  - (A) AUDIBLE ONLY.
- F — VISUAL SIGNALING UNIT, WALL MOUNTED- FLASHING "FIRE" LIGHT ONLY (NO AUDIO DEVICE) 75 CANDELA, UNLESS NOTED OTHERWISE.
- F C — VISUAL SIGNALING UNIT, CEILING MOUNTED - FLASHING "FIRE" LIGHT ONLY (NO AUDIO DEVICE) 75 CANDELA, UNLESS NOTED OTHERWISE
- S — FIRE ALARM SYSTEM, RESIDENTIAL UNIT MINI-HORN LOW FREQUENCY SOUNDER (520HZ) - MOUNT AT 96" AFF TO TOP OF SOUNDER
- R S — PHOTOELECTRIC DUCT SMOKE DETECTOR, R=RETURN / S=SUPPLY
- R — FIRE ALARM SHUTDOWN OR CONTROL RELAY
- RTI — DUCT DETECTOR REMOTE TROUBLE INDICATOR - MOUNT ADJACENT TO UNIT
- H 2 — FIRE ALARM HEAT DETECTOR. (2) INDICATES TO PROVIDE DUAL CONVERTIBLE CONTACTS
- 2 — CEILING OR WALL MOUNTED SMOKE DETECTOR. SMOKE DETECTOR SHALL BE TIED TO MAIN FIRE ALARM SYSTEM.
  - (2) PROVIDE DUAL CONTACT.
  - (CO) CARBON MONOXIDE DETECTOR.
  - (LF) LOW-FREQUENCY SOUNDER BASE WITH INTEGRAL BATTERY BACK UP.
- DH — DOOR HOLDER
- FACP — FIRE ALARM CONTROL PANEL - FLUSH MOUNTED
- FAJB — FIRE ALARM JUNCTION BOX
- FAAP — REMOTE FIRE ALARM ANNUNCIATOR PANEL - FLUSH MOUNTED
- GACP — GENERATOR ANNUNCIATOR CONTROL PANEL - FLUSH MOUNTED
- TS — SPRINKLER TAMPER SWITCH CONNECTION
- WL — "DO NOT USE" ELEVATOR WARNING LIGHT. BY ELEVATOR CONTRACTOR
- FATC — FIRE ALARM TERMINAL CABINET, FLUSHED MOUNTED
- DDS — HEARING IMPAIRED DUAL SMOKE SENSOR AND STROBE
- TFR — HEARING IMPAIRED LOW VOLTAGE TRANSFORMER FOR DOORBELL SYSTEM

ABBREVIATIONS

A	-	AMPERES	ELEC	-	ELECTRICAL	IWH	-	INSTANTANEOUS WATER HEATER	NIC	-	NOT IN CONTRACT
A/C	-	AIR CONDITIONING	EM	-	EMERGENCY	I.G.	-	ISOLATED GROUND	NL	-	NIGHT LIGHT
AC	-	ALTERNATING CURRENT	EF	-	EXHAUST FAN	J	-	JUNCTION	O.C.	-	ON CENTER
ADA	-	AMERICANS WITH DISABILITIES ACT	EPO	-	EMERGENCY POWER OFF	KAIC	-	(THOUSAND) AMPERE INTERRUPTING CAPACITY	P	-	POLE
AFF	-	ABOVE FINISHED FLOOR	EV	-	ELECTRIC VEHICLE	KCMIL	-	THOUSAND CIRCULAR MILLS	PNL	-	PANELBOARD
AFG	-	ABOVE FINISHED GRADE	EWC	-	ELECTRIC WATER COOLER	KVA	-	KILOVOLT-AMPERES	PVC	-	POLYVINYL CHLORIDE
AHU	-	AIR HANDLING UNIT	EX	-	EXISTING	KW	-	KILOWATT	RGS	-	RIGID GALVANIZED STEEL
ATS	-	AUTOMATIC TRANSFER SWITCH	EXT	-	EXTENSION	LTG	-	LIGHTING	RM	-	ROOM
AWG	-	AMERICAN WIRE GAUGE	FA	-	FIRE ALARM	LTS	-	LIGHTING	SPEC	-	SPECIFICATION
BFG	-	BELOW FINISHED GROUND	FACP	-	FIRE ALARM CONTROL PANEL	MCB	-	MAIN CIRCUIT BREAKER	SPD	-	SURGE PROTECTION DEVICE
C	-	CONDUIT	GACP	-	GENERATOR ANNUNCIATOR CONTROL PANEL	MH	-	MOUNTING HEIGHT	SS	-	STAINLESS STEEL
COND	-	CONDUIT	G	-	GROUND	MLO	-	MAIN LUG ONLY	SWBD	-	SWITCHBOARD
CH	-	COUNTER HEIGHT	GND	-	GROUND	N	-	NEUTRAL	TYP	-	TYPICAL
CONC	-	CONCRETE	GFI	-	GROUND FAULT INTERRUPTER	NA	-	NOT APPLICABLE	UON	-	UNLESS OTHERWISE NOTED
CU	-	COPPER	GRC	-	GALVANIZED RIGID CONDUIT	NEC	-	NATIONAL ELECTRICAL CODE	UNV	-	UNIVERSAL
DISC	-	DISCONNECT	HVAC	-	HEATING, VENTILATING, AND AIR CONDITIONING	NEMA	-	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	V	-	VOLTS
DBL	-	DOUBLE	IAW	-	IN ACCORDANCE WITH	NFPA	-	NATIONAL FIRE PROTECTION ASSOCIATION	W	-	WIRE
ECB	-	ENCLOSED CIRCUIT BREAKER	IBC	-	INTERNATIONAL BUILDING CODE	NF	-	NON-FUSED	WP	-	WEATHERPROOF

GENERAL NOTES

1. THE ELECTRICAL DESIGN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL BUILDING CODE.
2. REFER TO ELECTRICAL PROJECT SPECIFICATIONS FOR ADDITIONAL ELECTRICAL REQUIREMENTS TO THESE DRAWINGS.

O&M / AS-BUILTS NOTES

1. RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE FURNISHED TO OWNERS REP. WITHIN 30 DAYS OF THE DATE OF SYSTEM ACCEPTANCE BY THE BUILDING OWNER. THESE INCLUDE:
   - A. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
   - B. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.
2. PROVIDE OPERATIONS AND MAINTENANCE MANUAL TO BULDING OWNER AT TIME OF COMPLETION. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
   - A. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   - B. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   - C. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

IE - ELECTRICAL SHEET LIST

Sheet Number	Sheet Name	Project Issue Date	Project Status	Current Revision	Current Revision Date	Current Revision Description	Sheet Discipline
E0.01	ELECTRICAL LEGEND, NOTES & ABBREVIATION	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E0.02	ELECTRICAL SPECIFICATIONS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E0.03	ELECTRICAL SCHEDULES	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E0.10	SITE PLAN - ELECTRICAL	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E0.11	SITE PLAN - PHOTOMETRICS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E2.10	BUILDING A FLOOR PLAN - POWER	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E2.11	BUILDING B FLOOR PLANS - POWER	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E3.10	BUILDING A FLOOR PLAN - LIGHTING	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E3.11	BUILDING B FLOOR PLAN - LIGHTING	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E3.12	BUILDING A FLOOR PLAN - PHOTOMETRICS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E3.13	BUILDING B FLOOR PLAN - PHOTOMETRICS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E6.01	ELECTRICAL RISERS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E7.01	PANEL SCHEDULES	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL
E8.01	ELECTRICAL DETAILS	10/03/2025	ISSUED FOR PERMIT				ELECTRICAL

Grand total: 14

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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Drawing Title

ELECTRICAL LEGEND, NOTES & ABBREVIATION

Seal

STATE OF LOUISIANA — JOSEPH BENJAMIN HARRILL — License No. 37921 — REGISTERED PROFESSIONAL ENGINEER

JOSEPH B. HARRILL PE 37921

Date:	10/03/2025
Drawn By:	DRP
Checked By:	JBH
Project No:	

Drawing No.

E0.01

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I. GENERAL REQUIREMENTS -DIVISION 26 ELECTRICAL:

A. PERFORM ALL WORK IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE INTERNATIONAL BUILDING CODE W/ LOCAL AMENDMENTS, NFPA 70 (NATIONAL ELECTRIC CODE) AND NFPA 101 (LIFE SAFETY CODE), ADA ANSI A117.1, INSTALL AND CONNECT PER AND THE REGULATIONS OF THE LOCAL UTILITY TELEPHONE, CABLE TELEVISION AND POWER UTILITY COMPANIES, OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.
B. THE CONTRACTOR SHALL FURNISH, PERFORM, OR OTHERWISE PROVIDE ALL LABOR (INCLUDING, BUT NOT LIMITED TO, ALL PLANNING, PURCHASING, PAINTING, TRANSPORTING, RIGGING, HOISTING, STORING, INSTALLING, TESTING, CHASING, CHANNELING, CUTTING, TRENCHING, EXCAVATING AND BACKFILLING), COORDINATION, FIELD VERIFICATION, EQUIPMENT INSTALLATION, SUPPORT, AND SAFETY, SUPPLIES, AND MATERIALS NECESSARY FOR THE CORRECT INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS (AS DESCRIBED OR IMPLIED BY THESE SPECIFICATIONS AND THE APPLICABLE DRAWINGS).
C. ALL DRAWINGS AND SPECIFICATIONS ON THE PROJECT ARE COMPLEMENTARY, EACH TO ALL OTHER SETS, AND THEY SHALL BE USED IN COMBINATION FOR THE EXECUTION OF THIS WORK. DIVISION 26 WORK SHOWN ON ANY ONE SET OF DRAWINGS, INCLUDING ALL ARCHITECTURAL DRAWINGS, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR GENERAL WORK AND EQUIPMENT, AND DIVISION 26 WORK CALLED FOR UNDER ANY SECTION OF THE PROJECT SPECIFICATIONS, SHALL BE CONSIDERED AS INCLUDED IN THIS WORK UNLESS SPECIFICALLY EXCLUDED BY INCLUSION IN SOME OTHER BRANCH OF THE WORK, THIS SHALL INCLUDE ROUGHING-IN FOR CONNECTIONS AND EQUIPMENT AS CALLED FOR OR INFERRED. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS FOR THE PROJECT AND SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL DIVISION 26 WORK.
D. THE CONTRACTOR SHALL CAREFULLY CHECK THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND DIVISIONS BEFORE INSTALLING ANY OF HIS WORK, HE SHALL IN ALL CASES CONSIDER THE WORK OF ALL OTHER TRADES, AND SHALL COORDINATE HIS WORK WITH THEM SO THAT THE BEST ARRANGEMENTS OF ALL EQUIPMENT, PIPING, CONDUIT, DUCTS, ROUGH-IN, ETC., CAN BE OBTAINED.
E. LOCATIONS DESIGNATED FOR OUTLETS, SWITCHES, DEVICES, EQUIPMENT, ETC., ARE APPROXIMATE AND FINAL LOCATIONS SHALL BE VERIFIED IN THE FIELD AND CHECKED WITH ARCHITECTURAL AND ID DRAWINGS. CONTRACTOR SHALL LOCATE ALL DEVICES UP TO 5 FEET IN ANY DIRECTION AS DIRECTED BY OWNER AND PER CODE. WHERE INSTRUCTIONS OR NOTES ARE INSUFFICIENT TO CONVEY THE INTENT OF THE DESIGN, CONSULT THE OWNER PRIOR TO BIDDING AND INSTALLATION.
F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING THE LOCATIONS OF DEVICES TO BE USED AND COORDINATING THE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MILLWORK, SINKS, BENCHES, COUNTERS AND SHELVING PRIOR TO BIDDING AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER.
G. DIVISION 26 CONTRACTOR SHALL HAVE HAD EXPERIENCE OF AT LEAST THE SAME SIZE AND SCOPE AS THIS PROJECT, ON AT LEAST TWO OTHER PROJECTS WITHIN THE LAST FIVE YEARS IN ORDER TO BE QUALIFIED TO BID THIS PROJECT.
H. CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT COST TO OWNER, PROVIDED SUCH DEFECTS OR FAILURES ARE NOT DUE TO ABUSE, NEGLECT, OR LACK OF REASONABLE AND ORDINARY MAINTENANCE.
I. ALL WORK SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE UPON COMPLETION.
J. BALANCE LOAD AS EQUALLY AS PRACTICABLE ON ALL FEEDERS, BRANCH CIRCUITS AND PANEL BUSES.
K. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANT'S FURNISHINGS OR EQUIPMENT.
L. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, WALLS, STAIRS, MECHANICAL WORK, CURBS, GUTTERS, ETC., CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. PATCH WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.
M. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ENGINEER. THE CONTRACTOR SHALL BE AVAILABLE TO ASSIST IN REMOVAL OF PANEL FRONTS, TO PERMIT INSPECTION AS REQUIRED. IN ACCORDANCE WITH DIVISION 1 AND THE CONDITIONS OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS-BUILTS" BLUELINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW FIELD CHANGE FROM THE ORIGINAL DRAWINGS, INCLUDING ADDENDA AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

II. ELECTRICAL SCOPE:

A. FURNISHING AND INSTALLATION OF ELECTRIC LIGHTING SYSTEMS, POWER SYSTEMS, AND AUXILIARY SYSTEMS AS SHOWN OR HEREIN SPECIFIED.
B. CONNECTION OF ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION, MENTIONED IN THIS DIVISION OR SHOWN ON DRAWINGS, WHETHER FURNISHED BY DIVISION 26 OR UNDER OTHER DIVISIONS, OR FURNISHED BY OWNER, INCLUDING FIRE PROTECTION AND FIRE SPRINKLER SYSTEMS.
C. FURNISHING AND INSTALLATION OF OUTLET BOXES, CONDUIT RACEWAYS, TERMINAL BOARDS, POWER AND GROUNDING FOR A COMPLETE TELEPHONE, TELEVISION AND DATA RACEWAY DISTRIBUTION SYSTEM. (TELEPHONE AND DATA HARDWARE, AS WELL AS SOFTWARE IS NOT INCLUDED.)
D. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTACTING THE OFFICES OF ALL LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT IN ORDER TO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN ALL NECESSARY PERMITS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL SCHEDULED INSPECTIONS AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED DATE.
E. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP WITHOUT COST TO THE OWNER WITHIN THE STIPULATED GUARANTEED PERIOD.
F. IT SHALL BE THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE FOR ALL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE PERSONNEL TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.
G. SUBMIT TO THE ARCHITECT/ENGINEER PROMPTLY AFTER AWARD OF CONTRACT AND PRIOR TO PURCHASING, SIX COPIES OF MANUFACTURER'S SHOP DRAWINGS IN ACCORDANCE WITH DIVISION 1, SUBMITTALS FOR THE FOLLOWING ITEMS. ALL SHOP DRAWINGS OF A SPECIFIC ITEM OR SYSTEM SHALL BE MADE IN ONE SUBMITTAL AND WITHIN TEN DAYS AFTER AWARD OF CONTRACT.
   1. PANELBOARDS
   2. LIGHTING FIXTURES
   3. 120V SMOKE/CO2 DETECTORS
   4. WIRING DEVICES
   5. METER CENTERS
   6. DISCONNECT SWITCHES
   7. CONDUIT
   8. CONDUCTORS
   9. LOAD CENTERS
   10. SPD
H. COMPLETED WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS AND AFTER COMPLETION, PERFORM TESTS FOR INSULATION RESISTANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL WIRING SYSTEMS SHALL BE COMPLETELY AND TOTALLY "SAFE" DURING CONSTRUCTION. ONLY QUALIFIED PERSONNEL SHALL HANDLE ELECTRICAL SYSTEMS.
I. THE ELECTRICAL CIRCUITS, COMPONENTS, AND CONTROLS FOR ALL EQUIPMENT ARE SELECTED AND SIZED, BASED ON THE EQUIPMENT SPECIFIED. IF SUBSTITUTIONS AND/OR EQUIVALENT EQUIPMENT ARE FURNISHED, IT SHALL BE THE RESPONSIBILITY OF ALL PARTIES CONCERNED, INVOLVED IN, AND FURNISHING THE SUBSTITUTE AND/OR EQUIVALENT EQUIPMENT TO VERIFY AND COMPARE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THAT FURNISHED TO THAT SPECIFIED AND/OR SHOWN. IF GREATER CAPACITY OR MORE MATERIALS OR LABOR IS REQUIRED FOR THE ROUGH-IN, CIRCUITRY OR CONNECTIONS THAN FOR THE ITEM SPECIFIED AND PROVIDED FOR, THEN IT SHALL BE THE RESPONSIBILITY OF THE PARTIES INVOLVED IN PROVIDING THE SUBSTITUTE AND/OR EQUIVALENT ITEMS OF EQUIPMENT TO PROVIDE ALL COMPENSATION FOR ADDITIONAL CHARGES MADE FOR THE PROPER ROUGH-IN, CIRCUITRY AND CONNECTIONS FOR THE EQUIPMENT FURNISHED. NO ADDITIONAL CHARGES ABOVE THE BASE BID SHALL BE ALLOWED FOR SUCH REVISIONS. BEFORE ROUGH-IN OF CIRCUITRY OR CONNECTING TO EQUIPMENT, FURNISHED UNDER THIS DIVISION, ANY OTHER DIVISION, OR BY THE OWNER, THE CONTRACTOR SHALL VERIFY THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED AND FOR THAT SPECIFIED AND SHOWN ON THE DRAWINGS AND PROVIDE FOR PROPER ROUGH-IN AND CONNECTION.
J. EXCAVATION FOR UNDERGROUND ELECTRICAL STRUCTURES: CONFORM TO ELEVATIONS AND DIMENSIONS SHOWN WITHIN A TOLERANCE OF PLUS OR MINUS 0.10'; PLUS A SUFFICIENT DISTANCE TO PERMIT PLACING AND REMOVAL OF CONCRETE FORMWORK, INSTALLATION OF SERVICES, OTHER CONSTRUCTION, AND FOR INSPECTION.

L. TRENCHING: EXCAVATE TRENCHES FOR ELECTRICAL INSTALLATIONS AS FOLLOWS:
   1. EXCAVATE TRENCHES TO THE UNIFORM WIDTH, SUFFICIENTLY WIDE TO PROVIDE AMPLE WORKING ROOM AND A MINIMUM OF 6" TO 9" CLEARANCE ON BOTH SIDES OF RACEWAYS AND EQUIPMENT.
   2. EXCAVATE TRENCHES TO DEPTH INDICATED OR REQUIRED.
   3. LIMIT THE LENGTH OF OPEN TRENCH TO THAT IN WHICH INSTALLATIONS CAN BE MADE AND THE TRENCH BACKFILLED WITHIN THE SAME DAY.
   4. WHERE ROCK IS ENCOUNTERED, CARRY EXCAVATION BELOW REQUIRED ELEVATION AND BACKFILL WITH A LAYER OF CRUSHED STONE OR GRAVEL PRIOR TO INSTALLATION OF RACEWAYS AND EQUIPMENT. PROVIDE A MINIMUM OF 6" OF STONE OR GRAVEL CUSHION BETWEEN ROCK BEARING SURFACE AND ELECTRICAL INSTALLATIONS.
M. THE CONTRACTOR SHALL PROVIDE ALL INSERTS FOR THE SUPPORT OF DIVISION 26 EQUIPMENT TO BE PLACED IN CONCRETE OR THROUGH CONCRETE SLABS AS CONSTRUCTION PROGRESSES. HE SHALL PROVIDE ALL MISCELLANEOUS HANGING AND SUPPORTING HARDWARE. ALL ELECTRICAL WORK IS TO BE CONCEALED IN OR BUILT INTO GENERAL CONSTRUCTION SHALL BE PLACED AS CONSTRUCTION PROGRESSES. FAILURE OF THE CONTRACTOR TO COORDINATE WORK WITH OTHER TRADES AND THE PROJECT CONSTRUCTION PROGRESS SHALL MAKE HIM RESPONSIBLE FOR ALL COST OF CUTTING AND PATCHING, AS REQUIRED TO INSTALL WORK. NO STRUCTURAL MEMBER, MASONRY CONSTRUCTION OR FINISHED WORK SHALL BE CUT OR ALTERED WITHOUT PRIOR WRITTEN APPROVAL BY THE ARCHITECT/ENGINEER. CONTRACTOR SHALL FIRE RATE ALL PENETRATIONS THROUGH ALL FIRE RATED SLABS OR WALLS PER THE INTENDED RATING.
N. THE CONTRACTOR SHALL SUPPLY AND SET INTO PLACE ALL WALL SLEEVES FOR CONDUITS AND CEILING INSERTS FOR HANGERS IN AREAS OF NEW CONSTRUCTION AS BUILDING CONSTRUCTION PROGRESSES. INSTALL EQUIPMENT NOTED TO BE CONCEALED IN WALLS BEFORE WALLS ARE CONSTRUCTED IN ORDER THAT WALLS MAY BE CONSTRUCTED AROUND CONDUITS, ENCLOSURES, ETC.
O. METALLIC MATERIALS SHALL BE PROTECTED AGAINST CORROSION. EQUIPMENT ENCLOSURES SHALL BE GIVEN RUST-INHIBITING TREATMENT AND STANDARD FINISH BY MANUFACTURER. ALUMINUM SHALL NOT BE USED ON CONTACT WITH EARTH, AND, WHERE CONNECTED TO DISSIMILAR METAL, SHALL BE PROTECTED BY SUITABLE FITTINGS AND TREATMENT. ALL FERROUS METALS SUCH AS ANCHORS, BOLTS, BRACES, BOXES, BODIES, CLAMPS, FITTINGS, GUARDS, NUTS, PINS, RODS, SHIMS, THIMBLES, WASHERS, AND MISCELLANEOUS PARTS, NOT OF STAINLESS STEEL OR NONFERROUS MATERIALS, SHALL BE HOT-DIPPED GALVANIZED.
P. ALL CONDUITS STUBBED OUT FOR FUTURE USE SHALL HAVE A PULL WIRE INSTALLED, A PLASTIC CAP INSTALLED AND BE IDENTIFIED AS TO THE CONDUIT ORIGIN.
Q. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 26 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING AND FINISHING SHALL BE BY THE CONTRACTOR.
R. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUTE THE CIRCUITRY CONDUIT AND REWIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.
S. ANY PENETRATIONS TO FIRE OR SMOKE RATED ASSEMBLIES MADE BY THIS CONTRACTOR IN VERTICAL OR HORIZONTAL CONSTRUCTION SHALL BE SEALED AND PROTECTED BY THIS CONTRACTOR IN ORDER TO MAINTAIN THE ESTABLISHED FIRE RATING WITH METHODS AS APPROVED BY THE AUTHORITY HAVING JURISDICTION AND UL.
T. ALL ELECTRICAL SYSTEMS, EQUIPMENT AND COMPONENTS SHALL BE LOCATED AT OR ABOVE FLOOD ELEVATION OR GRADE ELEVATION, WHICH EVER IS HIGHER

III. IDENTIFICATION:

A. IDENTIFICATION NAMEPLATES SHALL BE LAMINATED PLASTIC, SECURED TO EQUIPMENT WITH TWO STAINLESS STEEL SCREWS.
B. EACH PANELBOARD AND METER CENTER SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS, SECURELY FASTENED TO THE DEVICE.
C. EACH INDIVIDUALLY MOUNTED CIRCUIT BREAKER, SWITCH, MOTOR STARTER, RELAY PANEL, LIGHTING CONTACTOR, TRANSFORMER AND/OR ANY OTHER CONTROL OR PROTECTIVE DEVICE INCLUDING EQUIPMENT DISCONNECT SWITCHES SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS.
D. PANELBOARDS SHALL HAVE TYPEWRITTEN DIRECTORIES. ALL CIRCUITS TO BE IDENTIFIED BY DEVICES SERVED AND ROOM NUMBERS (I.E., LIGHTING ROOM 216). HANDWRITTEN DIRECTORIES WILL NOT BE ALLOWED.
E. EACH JUNCTION BOX CABINET OR WIREWAY LARGER THAN 6" X 6" SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS INDICATING THE SYSTEM ENCLOSED.
F. ALL SYSTEMS UTILITY FOR CONNECTION TO THEIR EQUIPMENT. BOXES AND CONDUITS SHALL BE COLOR CODED INSIDE AND OUTSIDE OF THE BOX PRIOR TO THE INSTALLATION OF CONDUCTORS PER THE FOLLOWING:
   1. CCTV SYSTEM: VIOLET
   2. TELEPHONE DATA SYSTEM: BLUE
G. ENTIRE BOX INSIDE AND OUT, INCLUDING COVER, SHALL BE PAINTED PRIOR TO INSTALLING CONDUCTORS.

IV. WIRING DEVICES:

A. SWITCHES SHALL BE 20 AMP COMMERCIAL GRADE 125 VAC. IVORY IN COLOR WITH STAINLESS STEEL COVERPLATES FOR SHOP AREAS.
B. RECEPTACLES SHALL BE 20 AMP SPECIFICATION GRADE 125 VAC. IVORY IN COLOR WITH IVORY COVERPLATES FOR OFFICE AREAS.
C. RECEPTACLES SHALL B3 20AMP SPECIFICATION GRADE 125 VAC BLACK WITH BLACK COVERS IN ALL MILLWORK.
D. KEY LOCKABLE FLIP COVER TYPE COVERPLATES. SURGE SUPPRESSION TYPE OUTLETS IN MDFS AND IDFS SHALL BE HUBBELL #63625 (BLUE) OR EQUAL.
E. RECEPTACLES PROVIDED FOR ATTACHMENT OF CORD AND PLUG EQUIPMENT SHALL BE HEAVY DUTY, SPECIFICATION GRADE, NON-INTERCHANGEABLE, FLUSH MOUNTED TYPES OF THE PROPER NEMA CONFIGURATION TO SERVE THE EQUIPMENT. NEMA CONFIGURATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF CIRCUIT CONDUCTORS. PROVIDE ALL FINAL FLEXIBLE. CONDUIT CONNECTIONS, TO GARBAGE DISPOSAL, DISHWASHER, RANGE, MICROWAVES AND HVAC EQUIPMENT.
F. ALL DEVICES SHALL HAVE PROPER PLATES, CARPET FLANGES, TRIMS, RINGS, ESCUTCHEONS, ETC., AS MANUFACTURED BY SAME MANUFACTURER AS DEVICES. ANY TELEPHONE OR OTHER OUTLET WHICH IS NOT EQUIPPED WITH A PLATE FURNISHED BY OTHERS SHALL HAVE ONE PROVIDED BY THIS CONTRACTOR.
G. MOUNTING HEIGHTS ARE APPROXIMATE. THE EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED ON THE JOB AND PER ARCHITECTURAL DRAWINGS AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO INSURE CORRECT INSTALLATION, I.E., OVER COUNTERS IN OR ABOVE BACK-SPLASHES, IN BLOCK WALLS, TILE, AND OTHER SPECIFIC CONSTRUCTION FEATURES. LOCATION OF OUTLETS MOUNTED IN BUILT-INS, MILLWORK, AND CABINETRY SHALL BE VERIFIED. OUTLETS MOUNTED IN KICK OR TOE SPACES SHALL BE MOUNTED HORIZONTALLY. OUTLET BOXES SHALL BE MOUNTED TO PREVENT DEVICE PLATE FROM OVERLAPPING BACKSPLASH, TRIM, TILE, ETC. LOCATE SO DEVICE PLATE WILL LAY FLAT AGAINST SURFACE COMPLETELY AROUND THE PERIMETER OF PLATE.
H. OUTLETS, OTHER THAN THOSE COORDINATED WITH COUNTER TOPS, SHELVES, AND CABINETS, SHALL BE LOCATED WITH THE CENTER LINE OF OUTLET BOXES THE FOLLOWING DISTANCE ABOVE THE FINISHED FLOOR, UNLESS OTHERWISE INDICATED:
   1. RECEPTACLES, GENERAL: 1'-6" AFF
   2. TELEPHONE OUTLETS: 1'-6" AFF
   3. SWITCHES, GENERAL: 4'-0" AFF

V. RACEWAYS

A. SHALL BE GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING, E.M.T. SHALL BE ELECTRO-GALVANIZED. CONDUITS SHALL BE AS MANUFACTURED BY REPUBLIC, PITTSBURGH STANDARD, WHEATLAND, TRIANGLE, ALLIED, OR YOUNGSTOWN.
B. SHALL BE STANDARD THREADED TYPE, GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. THREADLESS AND CLAMP TYPE NOT ACCEPTABLE. SHALL BE AS MANUFACTURED BY RACO, EFCOR, OR APPLETON.
C. SHALL BE STEEL THREADED COMPRESSION TYPE. ALL COUPLINGS AND CONNECTORS SHALL BE EFCOR OR RACO. PRESSURE INDENTED TYPE CONNECTORS OR CAST METAL WILL NOT BE APPROVED FOR ANY LOCATION.
D. CONNECTORS SHALL HAVE PLASTIC INSULATED THROAT INSERTS.
E. THE USE OF METAL CLAD CABLE IS ACCEPTABLE IN LOCATIONS AS ACCEPTED BY THE NEC AND ALL LOCAL JURISDICTIONAL CODES.
F. STEEL METAL CLAD CABLE, TYPE MC, EMPLOYING CIRCUIT CONDUCTORS #12 SOLID TO #2 AWG, SOLID OR STRANDED COPPER WITH THHN INSULATION, AN INSULATED GREEN GROUNDING CONDUCTOR AND GALVANIZED STEEL INTERLOCKED ARMOR CLADDING. THE CABLES SHALL BE SUITABLE FOR USE IN CONCEALED DRY LOCATIONS AT TEMPERATURES NOT EXCEEDING 90° C ON AD CIRCUITS UP TO 600 VOLTS IN ACCORDANCE WITH N.E.C., ARTICLE 334. THE CABLE SHALL BE ONE AND TWO HOUR FIRE RATED PER ANSI/UL 1479 FOR USE CONCEALED IN WALL, CEILING AND FLOOR ASSEMBLIES.
G. FLEXIBLE METALLIC CONDUIT RACEWAYS MAY BE USED TO CONNECT HVAC UNITS LOCATED IN INTERIOR MECHANICAL AREAS. MINIMUM SIZE 3/4".
H. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE EXCEPT THAT NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED. CONDUIT SHALL BE SIZED LARGER THAN REQUIRED ABOVE WHEN SO SHOWN ON THE DRAWINGS OR WHEN REQUIRED BY LOCAL CODE.
I. ANY CONDUIT STUBBED OUT FOR FUTURE USE SHALL BE CAPPED WITH A PLASTIC CAP AND MARKED WITH A 2" MINIMUM RED METAL TAG WHICH IDENTIFIES CONDUIT ORIGIN. CONDUITS STUBBED UP ABOVE GRADE OR ROOF SHALL BE TAGGED ON THE CONDUIT. CONDUIT STUBBED OUT BELOW GRADE SHALL BE TAGGED ON NEAREST BUILDING WALL, CURB, ETC., DIRECTLY OVER THE CONDUIT ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.
J. THE USE OF NON-METALLIC SHEATHED CABLE (ROMEX) SHALL BE PERMISSIBLE FOR USE WITHIN RESIDENTIAL UNITS AS ACCEPTED BY THE AUTHORITY HAVING JURISDICTION AND INSTALLED PER THE MANUFACTURES RECOMMENDATIONS. PRIOR WRITTEN APPROVAL FROM THE AHU IS MANDATORY AND MUST BE SUBMITTED WITH CONDUCTOR SHOP DRAWINGS.

VI. SCHEDULE 40 RIGID PVC:

A. CONDUIT SHALL BE COMPOSED OF POLYVINYLCHLORIDE (PVC) AND SHALL BE UL RATED TYPE 40 FOR USE WITH 90°C RATED CONDUCTORS. CONDUIT SHALL CONFORM TO NEMA STANDARDS AND APPLICABLE SECTIONS OF NEC.
B. INSTALLATION OF RIGID NON-METALLIC CONDUIT SHALL COMPLY WITH ARTICLE 347 OF THE NATIONAL ELECTRICAL CODE (NFPA 70) AND THESE SPECIFICATIONS.
C. PROVIDE A CONTINUOUS, INSULATED, GROUNDING CONDUCTOR IN EVERY RIGID, NON-METALLIC RACEWAY EVEN IF NOT SHOWN ON THE DRAWINGS. THE GROUNDING CONDUCTOR SHALL BE CONNECTED TO GROUND AT EACH END OF THE RACEWAY IN ACCORDANCE WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE (NFPA 70).
D. WHERE RIGID NON-METALLIC CONDUIT TRANSITIONS TO METALLIC CONDUIT, THE LOCATION OF THE TRANSITION SHALL BE UNDERGROUND. NO PVC CONDUIT SHALL BE RUN EXPOSED, OR ABOVE GRADE.

VII. WIRE AND CABLE 600 VOLT:

A. CONDUCTORS SHALL HAVE CURRENT CARRYING CAPACITIES AS PER NEC AND WITH 600 VOLT INSULATION, #12 AVERAGE MINIMUM FOR 20 AMP CIRCUITS. CONDUCTORS SHALL BE COPPER.
B. #12 AND #10 SHALL BE SOLID, TYPE THWN/THHN INSULATION.
C. #8 AND LARGER, AND ANY SIZE TO MOTORS SHALL BE STRANDED TYPE THWN.
D. SHALL BE MADE WITH T & B STA-KON WIRE JOINTS, PT SERIES, COMPLETE WITH INSULATING CAPS AND INSTALLED WITH WT161 TOOL OR WT2000 TOOL. IDEAL SUPER-NUTS (NOT WIRE IDEAL WING NUTS, OR BUCHANAN ELEC. PRODUCTS B CAP OR SERIES 2000 PRESSURE CONNECTORS COMPLETE WITH NYLON SNAP-ON INSULATORS AND INSTALLED WITH C24 PRESSURE TOOL.
E. ALL JOINTS AND SPLICES IN WIRE SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS, AND COVERED SO THAT INSULATION IS OWNER APPROVED EQUAL TO CONDUCTOR INSULATION. SPLICES SHALL NOT BE PERMITTED IN CONTROL, SECURITY, FIRE ALARM. TELEVISION OR COMMUNICATIONS SYSTEMS, OR WHERE OTHERWISE NOTED. SPLICING OF WIRE OR CABLES WILL NOT BE ALLOWED BELOW GRADE, INCLUDING IN BOXES BELOW GRADE.
F. BOTH CONDUCTORS AND CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.
G. IN INSTALLING THE MAIN ELECTRICAL SERVICE, ADDITIONAL SPACE AND CONDUCTOR SHALL BE PROVIDED AND TERMINATED AS REQUIRED BY ELECTRIC UTILITY FOR CONNECTION TO THEIR EQUIPMENT. FIELD COORDINATE WITH UTILITY PRIOR TO INSTALLING CONDUCTORS.
H. IN INSTALLING PARALLEL CONDUCTORS IT IS MANDATORY THAT ALL CONDUCTORS MAKING UP THE FEEDER BE EXACTLY THE SAME LENGTH, THE SAME SIZE AND THE SAME TYPE OF CONDUCTOR WITH THE SAME INSULATION. FURTHER, EACH GROUP OF CONDUCTORS MAKING UP A PHASE OR NEUTRAL MUST BE BONDED AT BOTH ENDS IN AN APPROVED MANNER.
I. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS.
J. CONDUCTORS SHALL BE CONTINUOUS AND UNSPLICED WHERE INSTALLED IN CONDUIT. SPLICES SHALL OCCUR ONLY WITHIN WIRING TROUGHS, WIREWAYS, JUNCTION BOXES, OUTLET BOXES, OR EQUIPMENT ENCLOSURES WHERE SUFFICIENT ADDITIONAL ROOM IS PROVIDED FOR ALL SPLICES.
K. EACH BRANCH CIRCUIT AND FEEDER CONDUCTOR SHALL BE COLOR CODED. FOR CONDUCTOR SIZES THRU NO. 6 AWG, THE INSULATION SHALL BE OF THE COLOR AS INDICATED BELOW. COLOR CODE SHALL BE STRICTLY ADHERED TO. FOR CONDUCTOR SIZES NO. 4 AWG AND LARGER, COLOR CODED PHASE TAPE MAY BE APPLIED COMPLETELY AROUND THE CONDUCTOR INSULATION WITHIN 6" OF EACH END OF THE CONDUCTOR AND IN EACH PULL OR JUNCTION BOX OR WHENEVER CONDUCTORS ARE PHYSICALLY EXPOSED TO VIEW. GROUNDING CONDUCTORS AND GROUNDED CONDUCTORS SHALL HAVE INSULATION COLOR AS INDICATED FOR SIZES THROUGH #6 AWG.

120/208 V, 3PHASE,	4W 277/480 V, 3PHASE,4W
PHASE A, COLOR: BLACK	PHASE A, COLOR: BROWN
PHASE B, COLOR: RED	PHASE B, COLOR: ORANGE
PHASE C, COLOR: BLUE	PHASE C, COLOR: YELLOW
NEUTRAL, COLOR: WHITE	NEUTRAL, COLOR: GREY
GROUND, COLOR: GREEN	GROUND, COLOR: GREEN

L. PRIOR AUTHORIZATION FROM THE ARCHITECT/ENGINEER IF CONDUCTORS ARE SUBSTITUTED TO ALUMINUM CONDUCTORS. CONDUCTORS MUST HAVE THE EQUIVALENT OR GREATER AMPACITY VALUE THAN THAT OF SPECIFIED COPPER, SHALL PHYSICALLY FIT BELOW THE CONNECTION LUG AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. ALL LUGS SHALL BE RATED FOR COPPER AND ALUMINUM CONDUCTORS. CONDUCTORS SHALL BE INSTALLED UTILIZING "NO-LOX" ANTI-OXIDATION COMPOUND AND CONDUCTORS SHALL BE DESIGNATED AS "COMPACT ALUMINUM".
M. ALL WIRING SHALL BE AS PER NEC.

VIII. GROUNDING:

A. THIS SECTION DEALS WITH THE GROUNDING OF SERV

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1. VERIFY DISCONNECT CIRCUIT BREAKER SIZE, FRAME SIZE, AND FUSE RATING/TYPE BASED ON DIVISION 22/23 SHOP DRAWINGS PRIOR TO BIDDING. ADJUST AS NECESSARY.
2. DISCONNECT IS INTEGRAL TO FAN COIL UNIT.
3. ELEVATOR SIZE IS ESTIMATED AS SHOP DRAWINGS HAVE NOT BEEN CREATED. VERIFY OVER CURRENT PROTECTION SIZE REQUIRED ON ELEVATOR SHOP DRAWINGS PRIOR TO ORDERING EQUIPMENT.
4. ALL EQUIPMENT RECEIVING CONTROL POWER ONLY ARE NOT SHOWN ON THIS SCHEDULE. REFER TO DIVISION 23 MECHANICAL SCHEDULES AND POWER PLANS FOR CIRCUITING REQUIREMENTS.
5. INTERIOR FAN COIL UNIT IS POWERED BY OUTDOOR CONDENSING UNIT WITH 3#10 AWG IN 3/4"C.
6. VARIABLE FREQUENCY DRIVE (VFD) IS FURNISHED BY DIVISION 23, INSTALLED ANY CONNECTED BY DIVISION 26. DISCONNECTING MEANS IS INTEGRAL TO VFD.

EQUIPMENT	AMPS	LOAD	VOLTAGE	NO. OF POLES	PANEL	CIRCUIT NUMBER	COMBINATION STARTER/DISCONNECT			FEEDER (COPPER CONDUCTORS U.N.O)	CB RATING	NOTES
							FRAME RATING	FUSE RATING	NEMA RATING			
AC-1.1/CU-1.1	7.2 A	1.50 kVA	208 V	2	LA	58,60	30	15	3R	2#12, 1#12G, 1/2"C	15 A	1,5
EF-1	4.2 A	0.50 kVA	120 V	1	LA	62	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-2.1	10.0 A	1.20 kVA	120 V	1	LA	69	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-2.2	10.0 A	1.20 kVA	120 V	1	LA	71	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-2.3	10.0 A	1.20 kVA	120 V	1	LA	73	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-2.4	10.0 A	1.20 kVA	120 V	1	LA	75	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-2.5	10.0 A	1.20 kVA	120 V	1	LA	77	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-3	1.2 A	0.14 kVA	120 V	1	LC	3	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-4	5.8 A	0.70 kVA	120 V	1	LA	64	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-5.1	0.3 A	0.03 kVA	120 V	1	LB	39	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-5.2	0.3 A	0.03 kVA	120 V	1	LB	41	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-6	0.3 A	0.03 kVA	120 V	1	LA	66	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-7	5.8 A	0.70 kVA	120 V	1	LA	68	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-8	5.8 A	0.70 kVA	120 V	1	LA	70	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EF-9	5.8 A	0.70 kVA	120 V	1	LA	72	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
EH-1	7.2 A	1.50 kVA	208 V	2	LC	5,7	30	20	1	2#12, 1#12G, 1/2"C	20 A	1
FCU-1	58.9 A	12.25 kVA	208 V	2	LA	30,32	100	80	1	2#4, 1#8G, 1-1/4"C	80 A	1,2
FCU-2	58.9 A	12.25 kVA	208 V	2	LA	34,36	100	80	1	2#4, 1#8G, 1-1/4"C	80 A	1,2
FCU-3	38.4 A	7.99 kVA	208 V	2	LA	38,40	100	60	1	2#6, 1#10G, 1"C	60 A	1,2
FCU-4	38.4 A	7.99 kVA	208 V	2	LA	42,44	100	60	1	2#6, 1#10G, 1"C	60 A	1,2
FCU-5	38.4 A	7.99 kVA	208 V	2	LA	46,48	60	60	1	2#6, 1#10G, 1"C	60 A	1,2
FCU-6	38.4 A	7.99 kVA	208 V	2	LA	50,52	60	60	1	2#6, 1#10G, 1"C	60 A	1,2
FCU-7	41.4 A	8.62 kVA	208 V	2	LA	54,56	100	80	1	2#4, 1#8G, 1-1/4"C	80 A	1,2
HP-1	7.0 A	1.45 kVA	208 V	2	LA	2,4	60	60	3R	2#6, 1#10G, 1"C	60 A	1
HP-2	7.0 A	1.45 kVA	208 V	2	LA	6,8	60	60	3R	2#6,1#10G, 1"C	60 A	1
HP-3	3.8 A	0.80 kVA	208 V	2	LA	10,12	30	30	3R	2#8, 1#10G, 3/4"C	30 A	1
HP-4	3.8 A	0.80 kVA	208 V	2	LA	14,16	30	30	3R	2#8, 1#10G, 3/4"C	30 A	1
HP-5	4.3 A	0.89 kVA	208 V	2	LA	18,20	60	35	3R	2#8, 1#10G, 1"C	35 A	1
HP-6	4.3 A	0.89 kVA	208 V	2	LA	22,24	60	35	3R	2#8, 1#10G, 1"C	35 A	1
HP-7	7.0 A	1.45 kVA	208 V	2	LA	26,28	60	60	3R	2#6, 1#10G, 1"C	60 A	1
RH-1 THRU RH-4	4.0 A	0.48 kVA	120 V	1	LB	27	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
RH-5 THRU RH-8	4.0 A	0.48 kVA	120 V	1	LB	29	---	---	---	2#12, 1#12G, 1/2"C	20 A	1
RH-9 AND RH-10	2.0 A	0.24 kVA	120 V	1	LB	31	---	---	---	2#12, 1#12G, 1/2"C	20 A	1

LIGHTING FIXTURE SCHEDULE

LIGHTING FIXTURE SCHEDULE NOTES

1. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND WIRING TO CONNECT LIGHTING FIXTURES AT HOLLOW CORE, POST TENSION SLAB, AND STRUCTURAL STEEL LOCATIONS INCLUDING BOXES, HANGER BARS, STRUCTURAL APPROVED FASTENERS AND UL APPROVED CONNECTORS.
2. PROVIDE ALL DEVICES, DRYWALL FLANGES, MOUNTING EQUIPMENT, CHAIN, STRAIN RELIEFS, CLIPS, ESCUTCHEONS, PLATES AND STRUCTURAL SUPPORTS FOR THE INSTALLATION AND CONNECTION OF ALL LIGHTING FIXTURES.
3. COORDINATE THE ACTUAL TYPE OF LIGHTING FIXTURES WITH ARCHITECTURAL LIGHTING SCHEDULES, INTERIOR DESIGN LIGHTING SCHEDULE/DRAWINGS AND OWNER LIGHTING FIXTURE STANDARD CRITERIA AS REQUIRED.
4. REFER TO ARCHITECTURAL REFLECTED CEILING LIGHTING PLAN FOR EXACT FINAL LOCATION OF LIGHTING FIXTURES.
5. COORDINATE THE ACTUAL TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL AND INTERIOR DRAWING'S REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
6. ALL SITE, POOL DECK, AND PARKING GARAGE ALTERNATE FIXTURES SHALL BE SUBMITTED WITH PHOTOMETRIC STUDY TO BE REVIEWED AS PART OF THE SUBMITTAL PROCESS.

TYPE	MANUFACTURER & CATALOG NO.	DESCRIPTION	LAMPS	LOAD	VOLTS	REMARKS
A	LITHONIA LIGHTING: LDN4-ALO1-SWW1-LO4-AR-LSS-MVOLT-UGZ	4" DOWNLIGHT	LED	25.0 VA	277	AS APPROVED BY OWNER.
B	LITHONIA LIGHTING: CPHB-24000LM-SEF-GCL-MD-MVOLT-GZ10-40K-70 CRI-MLTAIR2-RLSXR6	2'x4' HIGH BAY WITH MOUNTING HARWARE V-HOOK & 36 HANGER CHAIN	LED	174.0 VA	277	AS APPROVED BY OWNER.
BE	LITHONIA LIGHTING: CPHB-24000LM-SEF-GCL-MD-MVOLT-GZ10-40K70C RI-MLTAIR2-RLSXR6-E10WCP	2'x4' HIGH BAY WITH MOUNTING HARWARE V-HOOK, 36 HANGER CHAIN & EMERGENCY BATTERY PACK	LED	174.0 VA	277	AS APPROVED BY OWNER.
C	LITHONIA LIGHTING: JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-DWHXD	PENDANT WITH CONICAL FROSTED LENS	LED	59.0 VA	277	AS APPROVED BY OWNER.
CE	LITHONIA LIGHTING: JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-E10WCP-DWHXD	PENDANT WITH CONICAL FROSTED LENS WITH EMERGENCY BATTERY PACK	LED	59.0 VA	277	AS APPROVED BY OWNER.
D	LITHONIA LIGHTING: CSVT-L40-5000LM-MVOLT-40K-80CRI	4' VAPOR TIGHT STRIP LIGHT	LED	42.0 VA	277	AS APPROVED BY OWNER.
DE	LITHONIA LIGHTING: CSVT-L40-5000LM-MVOLT-40K-80CRI-IETWCP	4' VAPOR TIGHT STRIP LIGHT WITH EMERGENCY BATTERY PACK	LED	42.0 VA	277	AS APPROVED BY OWNER.
EX	LITHONIA LIGHTING: EXRG-EL-M6	EXIT SIGN	LED	1.0 VA	277	AS APPROVED BY OWNER. VERIFY NUMBER OF FACES AND ARROWS W/ FLOOR PLANS
F	LITHONIA LIGHTING: CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT	2'x4' RECESSED TROFFER	LED	30.0 VA	277	AS APPROVED BY OWNER.
FE	LITHONIA LIGHTING: CPX-2X4-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT -E10W	2'x4' RECESSED TROFFER WITH EMERGENCY BATTERY PACK	LED	30.0 VA	277	AS APPROVED BY OWNER.
FL	LITHONIA LIGHTING: ESXF1-PO-SWW2-THK-DOB	FLAGPOLE LIGHT	LED	17.0 VA	277	AS APPROVED BY OWNER.
G	LITHONIA LIGHTING: CPX-2X2-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT	2'x2' RECESSED TROFFER	LED	62.0 VA	277	AS APPROVED BY OWNER.
GE	LITHONIA LIGHTING: CPX-2X2-4000LM-80CRI-40K-SWL-MIN10-ZT-MVOLT -E10W	2'x2' RECESSED TROFFER 2'x4' RECESSED TROFFER WITH EMERGENCY BATTERY PACK	LED	62.0 VA	277	AS APPROVED BY OWNER.
H	LITHONIA LIGHTING: JEBL-30000LM-FRGL-MVOLT-40K-80CRI-PM-DWHX D	HIGH BAY EXTERIOR LIGHT	LED	214.7 VA	277	AS APPROVED BY OWNER.
H1	GM LIGHTING: LED-CHL-MI-C6	LED COVE TAPE LIGHT	LED	18.0 VA	277	AS APPROVED BY OWNER.
J	LITHONIA LIGHTING: SCNY-LED-P1-40K-FPCL-MVOLT-DWHXD	LED CANOPY LIGHT	LED	28.0 VA	277	AS APPROVED BY OWNER.
OA	LITHONIA LIGHTING: WDGE3-LED-P4-40K-70CRI-RFT-MVOLT-NLTAIR-PI RH-DDBXD	EXTERIOR WALL SCONCE	LED	87.9 VA	277	AS APPROVED BY OWNER.
OEM	LITHONIA LIGHTING: WPX1-LED-P1-40K-MVOLT-E4WH-DDBXD	EXTERIOR WALL SCONCE WITH EMERGENCY BATTERY PACK	LED	11.5 VA	277	AS APPROVED BY OWNER.
SLB	LITHONIA LIGHTING: DSXO-LED-P7-40K-70CRI-TFTM-MVOLT-RPA-NLTAI R2-PIRH	SINGLE HEAD POLE LIGHT	LED	170.8 VA	277	AS APPROVED BY OWNER.
SLC2	LITHONIA LIGHTING: DSXO-LED-P7-40K-70CRI-T5M-MVOLT-RPA-NLTAIR 2-PIRH	DOUBLE HEAD POLE LIGHT	LED	170.8 VA	277	AS APPROVED BY OWNER.

General Notes:

General Notes:

No.	Date	Description

Submissions & Revisions

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Project Location

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BATON ROUGE, LA 70817

Drawing Title

ELECTRICAL SCHEDULES

Seal

STATE OF LOUISIANA
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REGISTERED PROFESSIONAL ENGINEER
JOSEPH B HARRELL PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E0.03

ISSUED FOR PERMIT

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SITE ELECTRICAL UTILITY LEGEND

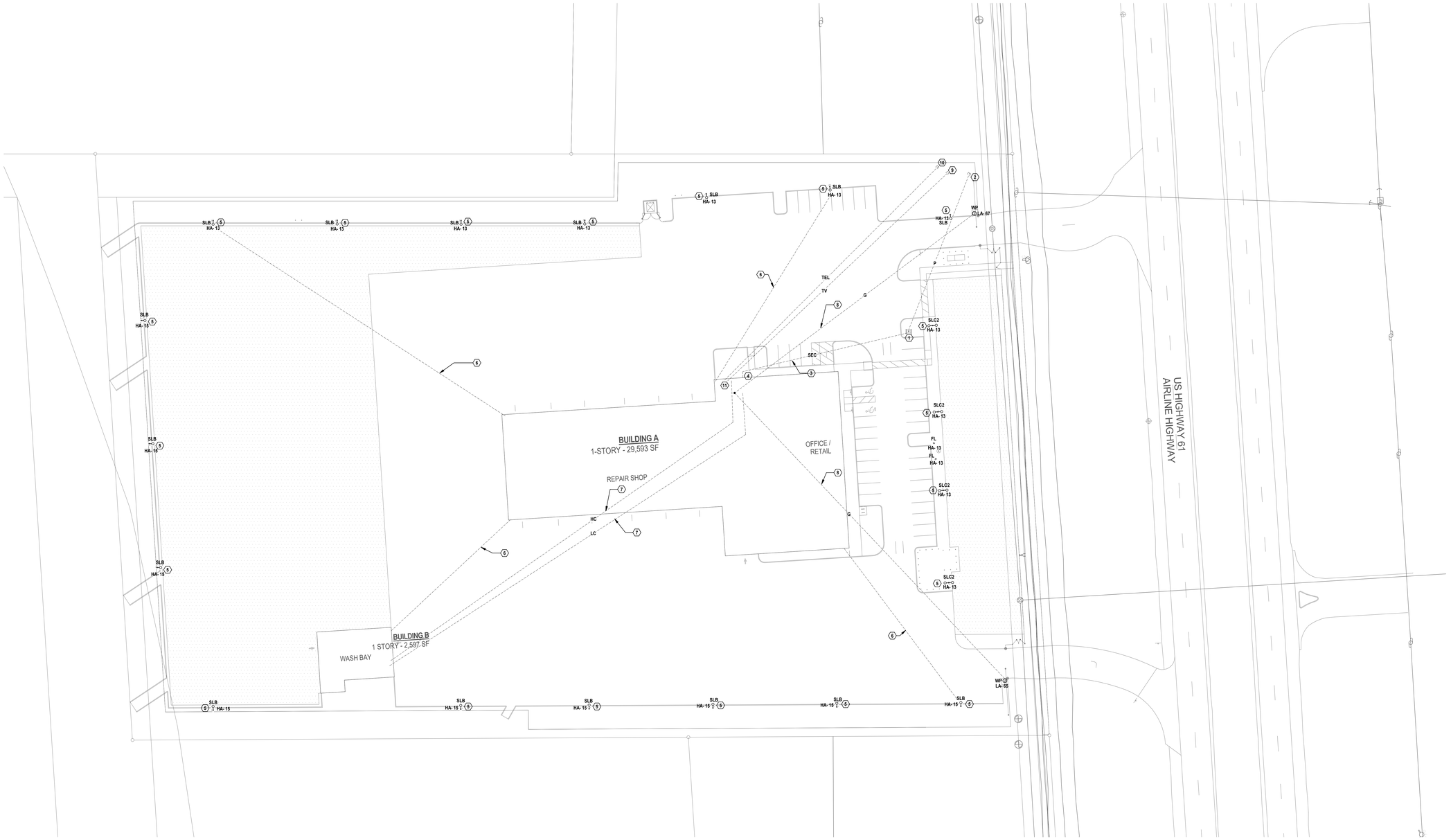
— — —P— — —	PRIMARY UNDERGROUND SERVICE ENTRANCE CONDUITS
— — -SEC- — —	UNDERGROUND SECONDARY FEEDERS
— — — — — —	UNDERGROUND FEEDER AND CONDUIT
— — —G— — —	UNDERGROUND CONDUIT FOR GATES. INSTALLED AT 30" BELOW FINISH GRADE.
— — —LC— — —	UNDERGROUND CONDUIT FOR LC PANEL. INSTALLED AT 30" BELOW FINISH GRADE.
— — —HC— — —	UNDERGROUND CONDUIT FOR HC PANEL. INSTALLED AT 30" BELOW FINISH GRADE.

REFERENCE NOTES

1. 277/480V, 3Ø, 4W UTILITY TRANSFORMER. PROVIDE CONCRETE HOUSING PAD PER UTILITY COMPANY REQUIREMENTS.
2. UNDERGROUND PRIMARY SERVICE ENTRANCE CONDUITS. (2) 5" UNDERGROUND SCHEDULE 40 PVC CONDUIT TO PROPERTY LINE WITH PULL WIRE AND CAP. INSTALL MARKER. UTILIZE LONG RADIUS ELBOWS. TERMINATE AT NEW PAD MOUNTED TRANSFORMERS. FIELD VERIFY EXACT FINAL LOCATION WITH UTILITY COMPANY PRIOR TO INSTALLATION OF CONDUITS.
3. UNDERGROUND 277/480V 3Ø 4W ELECTRICAL SECONDARY SERVICE ENTRANCE. SEE ONE-LINE ELECTRICAL RISER DIAGRAM DRAWING SHEET. FIELD COORDINATE THE EXACT ROUTING AND TERMINATION POINT PRIOR TO BIDDING.
4. APPROXIMATE LOCATION OF MAIN ELECTRICAL DISTRIBUTION EQUIPMENT. SEE POWER FLOOR PLANS FOR EXACT LOCATION.
5. ALL SITE LIGHTING SHALL BE CONTROLLED BY LIGHTING CONTROL PANEL "LCP".
6. PROVIDE 2" CONDUIT FOR LOW VOLTAGE TO TERMINATE INSIDE BUILDING.
7. (1) 1-1/2" EMPTY CONDUIT BURIED 30" B.F.G. TO EACH PANEL LOCATION. UTILIZE LONG RADIUS ELBOWS. STUB UP 24" AFG, PROVIDE PULL WIRE, CAP AND LABEL.
8. (1) 1" EMPTY CONDUIT BURIED 30" B.F.G. TO EACH GATE LOCATION. UTILIZE LONG RADIUS ELBOWS. STUB UP 24" AFG AT GATE CONTROL BOX, PROVIDE PULL WIRE, CAP AND LABEL.
9. (3) 4" UNDERGROUND CONDUIT BURIED 30" B.F.G. TO PROPERTY LINE FOR TELEVISION SERVICE ENTRANCE. UTILIZE LONG RADIUS ELBOWS. INSTALL PULLWIRE. TERMINATE AT PROPERTY LINE. CAP CONDUIT AND INSTALL MARKER.
10. (3) 4", AND (2) 2" SPARE, UNDERGROUND CONDUIT BURIED 30" B.F.G. TO PROPERTY LINE FOR TELEPHONE SERVICE ENTRANCE. UTILIZE LONG RADIUS ELBOWS. INSTALL PULLWIRE. TERMINATE AT PROPERTY LINE. CAP CONDUIT AND INSTALL MARKER.
11. APPROXIMATE LOCATION OF MAIN TELEPHONE, TELEVISION TERMINAL BOARD.

GENERAL NOTES

1. THIS PROJECT IS IN COMPLIANCE WITH 2020 NEC 210.19 WITH REGARDS TO VOLTAGE DROP (5%).



1 SITE PLAN - ELECTRICAL
1/64" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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C## 5276 I24249.00

INGENUITY ENGINEERS, INC.
"PROACTIVE ENGINEERING SOLUTIONS"
8275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.398.6007

General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

SITE PLAN - ELECTRICAL

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B HARRELL PE 37921

Date:	10/03/2025
Drawn By:	DRP
Checked By:	JBH
Project No:	

Drawing No.

E0.10

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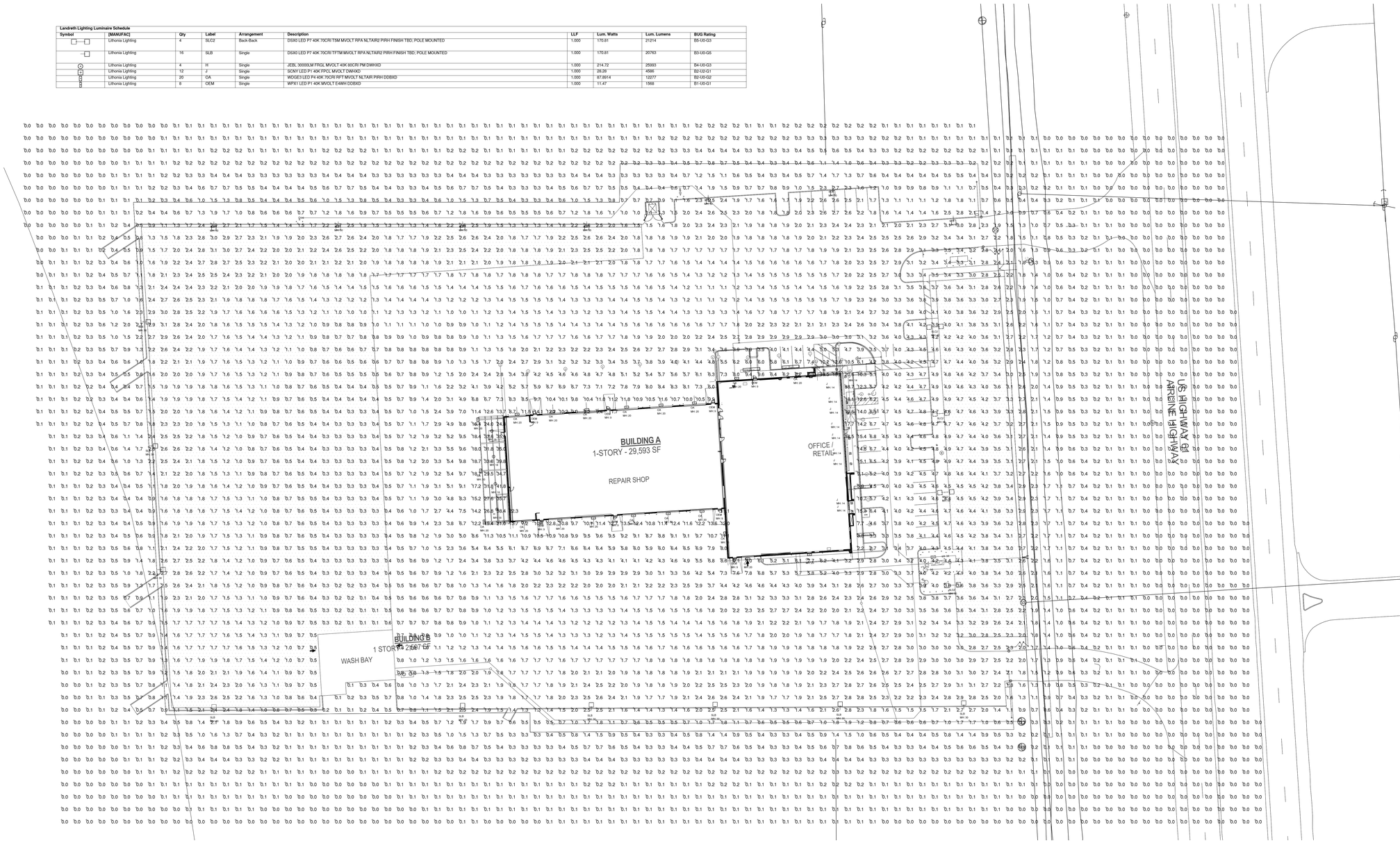
Landreth Lighting Luminaire Schedule

Symbol	[MANUFAC]	Qty	Label	Arrangement	Description	LLF	Lum. Watts	Lum. Lumens	BUG Rating
	Lithonia Lighting	4	SLC2	Back-Back	DSXO LED P7 40K 70CRI TSM MVOLT RPA NLTAIR2 PIRH FINISH TBD; POLE MOUNTED	1.000	170.81	21214	B5-U0-G3
	Lithonia Lighting	16	SLB	Single	DSXO LED P7 40K 70CRI TFTM MVOLT RPA NLTAIR2 PIRH FINISH TBD; POLE MOUNTED	1.000	170.81	20763	B3-U0-G5
	Lithonia Lighting	4	H	Single	JEBL 30000LM FRGL MVOLT 40K 80CRI PM DWHXD	1.000	214.72	25993	B4-U0-G3
	Lithonia Lighting	12	J	Single	SCNY LED P1 40K FPCL MVOLT DWHXD	1.000	28.28	4586	B2-U2-G1
	Lithonia Lighting	20	OA	Single	WDGE3 LED P4 40K 70CRI RFT MVOLT NLTAIR PIRH DDBXD	1.000	87.8914	12277	B2-U0-G2
	Lithonia Lighting	8	OEM	Single	WPX1 LED P1 40K MVOLT E4WH DDBXD	1.000	11.47	1568	B1-U0-G1



1 SITE PLAN - ELECTRICAL PHOTOMETRIC
E0.11 1" = 30'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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INGENUITY
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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

SITE PLAN - PHOTOMETRICS

Seal

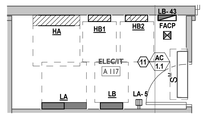
STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B HARRELL PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E0.11

Copyright 2025



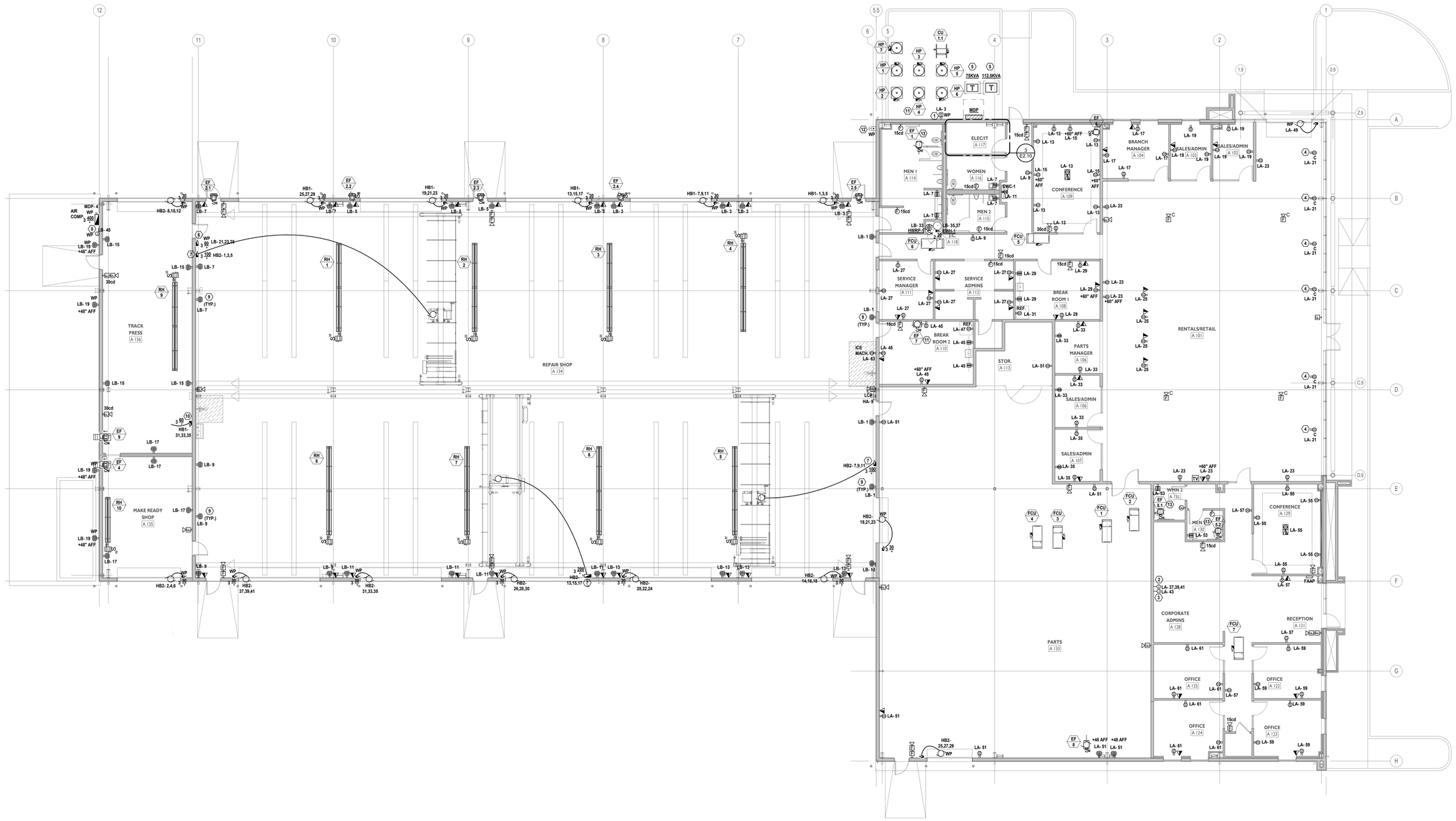
3 / E2.10 BUILDING A FLOOR PLAN - ELECTRICAL ROOM
SCALE: 1/4" = 1'-0"

REFERENCE NOTES

1. PROVIDE WEATHERPROOF GFCI HVAC SERVICE RECEPTACLE IN ACCORDANCE WITH NEC 210.63.
2. FLUSH J-BOX FOR POWER CONNECTION OF SYSTEM FURNITURE. PROVIDE CIRCUIT BREAKER TIE.
3. FLUSH J-BOX FOR DATA CONNECTION TO SYSTEM FURNITURE.
4. PROVIDE SHOW WINDOW RECEPTACLE, CONTRACTOR SHALL COMPLY WITH NEC 210.62.
5. 480V-208/120V DELTA-WYE, DRY-TYPE TRANSFORMER. INSTALL HOUSEKEEPING PAD. FIELD VERIFY THE EXACT LOCATION PRIOR TO ROUGH-IN.
6. CONTRACTOR TO COORDINATE ELECTRICAL REQUIREMENTS & EXACT LOCATION OF WELDING EQUIPMENT PRIOR TO ROUGH-IN.
7. PROVIDE WEATHERHEAD & CONNECTION FROM DISCONNECT TO CRANE'S ELECTRICAL RAIL. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH VENDOR PRIOR TO INSTALLATION.
8. IRRIGATION CONTROLLER. FIELD COORDINATE EXACT LOCATION. REFER TO CIVIL DRAWINGS.
9. OUTLETS LOCATED IN WORK BAY SHALL BE MOUNTED 24" AFF TO TOP MINIMUM.
10. PROVIDE POWER FOR TRACK PRESS MACHINE. COORDINATE ALL ELECTRICAL REQUIREMENTS WITH VENDOR PRIOR TO INSTALLATION.
11. INDOOR AC UNIT POWERED BY CORRESPONDING OUTDOOR CONDENSING UNIT VIA (3)#10 AWG CU, IN 3/4" CONDUIT.
12. FIELD COORDINATE THE EXACT LOCATION OF EMERGENCY SHUT OFF SWITCH.
13. PROVIDE A RELAY TO OPERATE THE EXHAUST FAN AND LIGHT FIXTURE.

GENERAL NOTES

1. THIS PROJECT IS IN COMPLIANCE WITH 2020 NEC 210.19 WITH REGARDS TO VOLTAGE DROP (5%).
2. FIRE ALARM DEVICES WHERE REQUIRED SHALL BE INSTALLED IN COMPLIANCE WITH NFPA AND LOUISIANA STATE UNIFORM FIRE PREVENTION CODE.
3. REFER TO ARCHITECTURAL AND INTERIOR DESIGNER DRAWINGS FOR ALL ELECTRICAL DEVICE MOUNTING HEIGHTS, QUANTITIES AND LOCATIONS.
4. COORDINATE WITH OWNER FOR EXACT DATA/COMM REQUIREMENTS.
5. SEAL ALL FIRE WALLS, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
6. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E0.03 FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.



1 / E2.10 BUILDING A FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - POWER

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRIL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B HARRIL
PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E2.10

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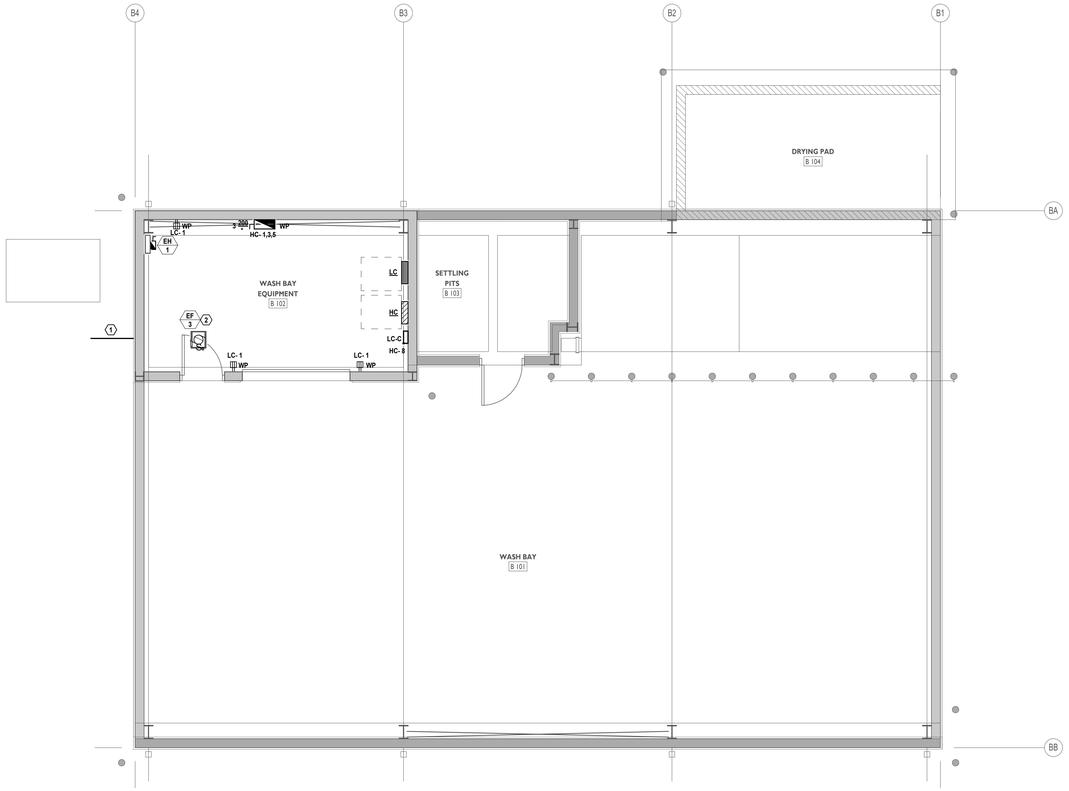
REFERENCE NOTES

1. PROVIDE (2) 1-1/2" U.G. CONDUIT FROM WASH BAY EQUIPMENT ROOM TO OIL/WATER SEPARATOR FOR FUTURE BIO-SYSTEMS. FIELD COORDINATE EXACT LOCATION.
2. PROVIDE A RELAY TO OPERATE THE EXHAUST FAN AND LIGHT FIXTURE.

GENERAL NOTES

1. THIS PROJECT IS IN COMPLIANCE WITH 2020 NEC 210.19 WITH REGARDS TO VOLTAGE DROP (5%).
2. FIRE ALARM DEVICES WHERE REQUIRED SHALL BE INSTALLED IN COMPLIANCE WITH NFPA AND LOUISIANA STATE UNIFORM FIRE PREVENTION CODE.
3. REFER TO ARCHITECTURAL AND INTERIOR DESIGNER DRAWINGS FOR ALL ELECTRICAL DEVICE MOUNTING HEIGHTS, QUANTITIES AND LOCATIONS.
4. COORDINATE WITH OWNER FOR EXACT DATA/COMM REQUIREMENTS.
5. SEAL ALL FIRE WALLS, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
6. SEE MECHANICAL EQUIPMENT CONNECTION SCHEDULE ON SHEET E0.03 FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT.



1 BUILDING B FLOOR PLAN - ELECTRICAL
1/4" = 1'-0"

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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M.E.P. & F.P. Engineers

C## 5276 — 024249.00

INGENUITY ENGINEERS, INC.
"PROACTIVE ENGINEERING SOLUTIONS"
6275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.398.6007

General Contractor

Project Location

W P I - B A T O N R O U G E
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B FLOOR PLANS - POWER

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
REGISTERED PROFESSIONAL ENGINEER
JOSEPH B HARRELL PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E2.11

ISSUED FOR PERMIT

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PANEL LCP

PART # : ARP-INTENIC16-NLT-16FCR-MVOLT-SC-SM-DTC

RELAY	LINE FEED	DESCRIPTION	ON	OFF	SWEEP	LOCAL CONTROL
1	HA-1	EXTERIOR LIGHTING	SS	SR	NO	---
2	HA-2	REPAIR SHOP LIGHTING	5:30 AM	10:30 PM	YES	SWITCH
3	HA-3	EXTERIOR CANOPY LIGHTING	SS	SR	NO	---
4	HA-4	REPAIR SHOP LIGHTING	5:30 AM	10:30 PM	YES	SWITCH
5	HA-5	EXTERIOR LIGHTING	SS	SR	NO	---
6	HA-6	LIGHTING PARTS	5:30 AM	10:30 PM	YES	SWITCH
7	HA-7	EXTERIOR BACK BAY LIGHTING	SS	SR	NO	---
8	HA-11	TRACK PRESS LIGHTING	5:30 AM	10:30 PM	YES	SWITCH
9	HA-12	RENTAL LIGHTING	5:30 AM	10:30 PM	YES	SWITCH
10	HA-13	SITE LIGHTING	SS	SR	NO	---
11	HA-15	SITE LIGHTING	SS	SR	NO	---
12	LA-1	SIGNAGE	SS	12:00 AM	NO	---
13	SPARE	---	---	---	---	---
14	SPARE	---	---	---	---	---
15	SPARE	---	---	---	---	---
16	SPARE	---	---	---	---	---

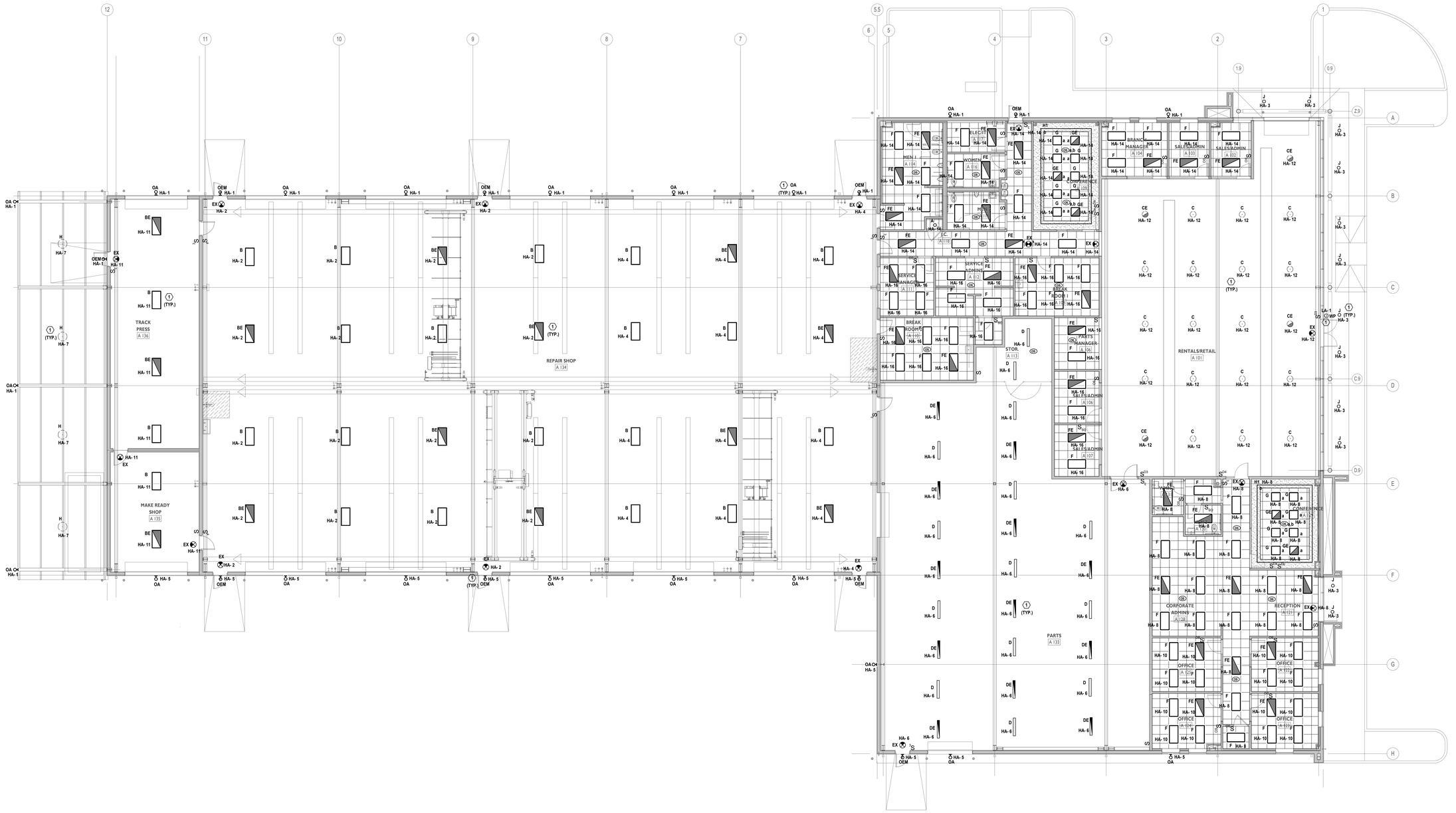
NOTES: SS = SUNSET
SR = SUNRISE
SS +/- # = SUNSET +/- TIME (MINUTES) FIR STAGGERING PURPOSES
OR TIMES SUGGESTED BY OWNER

REFERENCE NOTES

1. LIGHTING FIXTURES SHALL BE CONTROLLED BY AND ROUTED THROUGH LIGHTING CONTROL PANEL "LCP". SEE DETAIL ON THIS SHEET.

GENERAL NOTES

1. THIS PROJECT IS IN COMPLIANCE WITH 2020 NEC 210.19 WITH REGARDS TO VOLTAGE DROP (5%).
2. ALL EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED AHEAD OF ANY SWITCHING ARRANGEMENTS OR CONTROLLED BY A LISTED UL924 CONTROLLER PER N.E.C.
3. REFER TO ARCHITECTURAL AND LIGHTING DESIGNER LIGHTING PLANS FOR ANY AND ALL LIGHTING FIXTURE MOUNTING DIMENSIONS AND LOCATIONS.
4. SEAL ALL FIRE WALLS, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.



1 BUILDING A FLOOR PLAN - LIGHTING
E3.10 1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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C## 5276 — 024249.00

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - LIGHTING

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH E. HARRELL
PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E3.10

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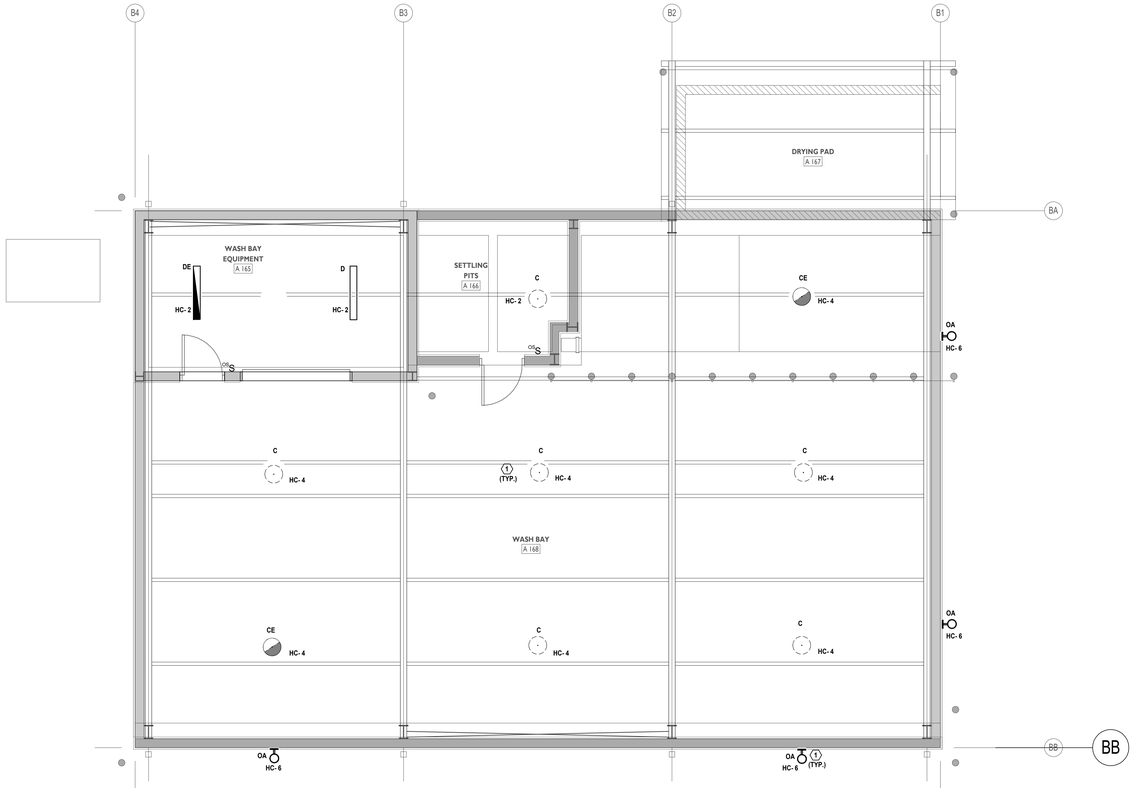
REFERENCE NOTES

1. LIGHTING FIXTURES SHALL BE CONTROLLED BY AND ROUTED THROUGH LIGHTING CONTACTOR "LC-C". SEE DETAIL ON SHEET E8.01.

GENERAL NOTES

1. THIS PROJECT IS IN COMPLIANCE WITH 2020 NEC 210.19 WITH REGARDS TO VOLTAGE DROP (5%).
2. ALL EMERGENCY AND EXIT LIGHTING SHALL BE CONNECTED AHEAD OF ANY SWITCHING ARRANGEMENTS OR CONTROLLED BY A LISTED UL924 CONTROLLER PER N.E.C.
3. REFER TO ARCHITECTURAL AND LIGHTING DESIGNER LIGHTING PLANS FOR ANY AND ALL LIGHTING FIXTURE MOUNTING DIMENSIONS AND LOCATIONS.
4. SEAL ALL FIRE WALLS, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.



1 BUILDING B FLOOR PLAN - LIGHTING
E3.11 1/4" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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General Contractor

Project Location

W P I - B A T O N R O U G E
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B FLOOR PLAN - LIGHTING

Seal

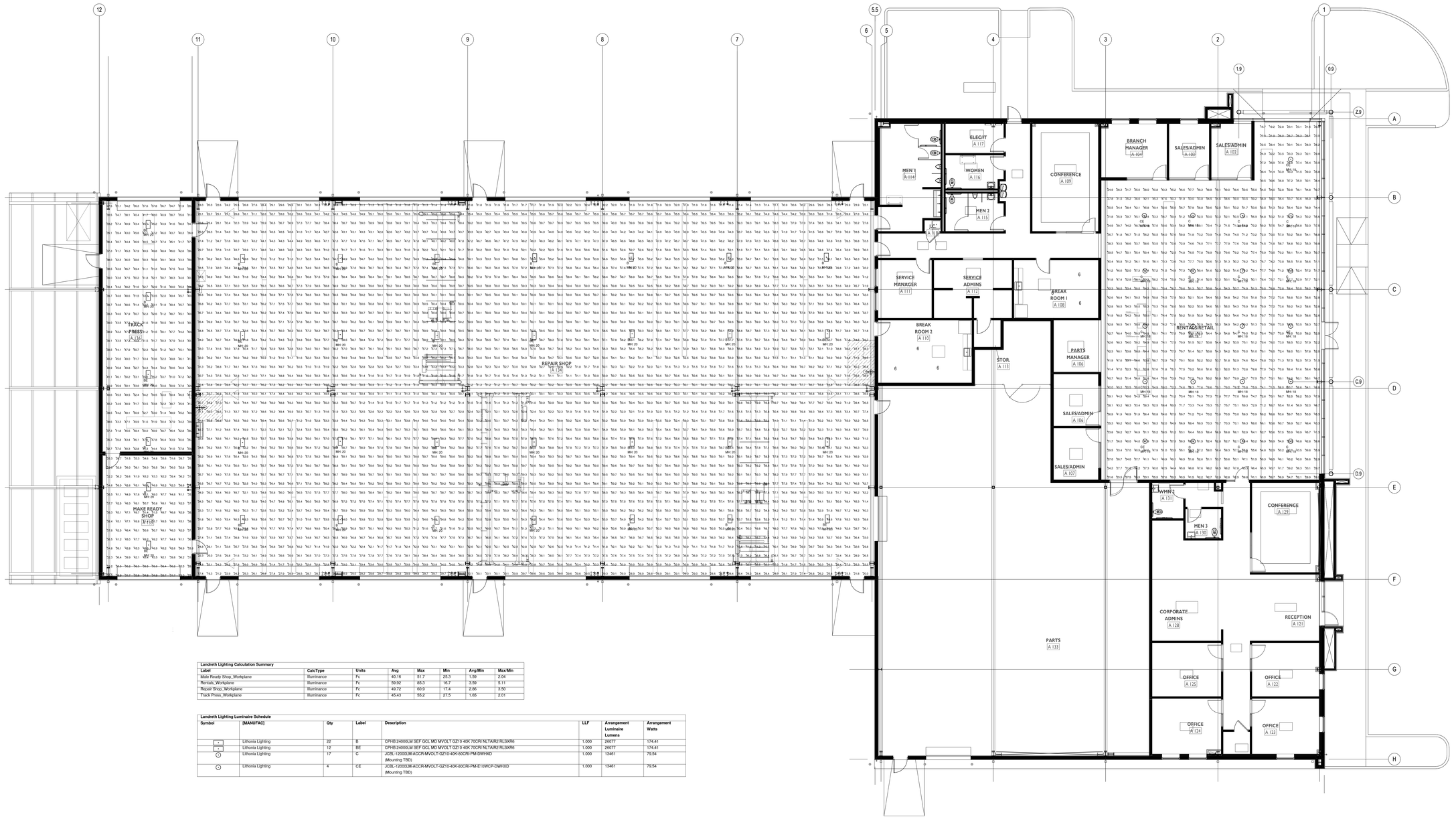
STATE OF LOUISIANA
JOSEPH BENJAMIN HARRILL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B HARRILL PE 37921

Date:	10/03/2025
Drawn By:	DRN
Checked By:	JBH
Project No:	

Drawing No.

E3.11

Copyright 2025



Landreth Lighting Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Male Ready Shop_Workplane	Illuminance	Fc	40.16	51.7	25.3	1.59	2.04
Rentals_Workplane	Illuminance	Fc	59.92	85.3	16.7	3.59	5.11
Repair Shop_Workplane	Illuminance	Fc	49.72	60.9	17.4	2.86	3.50
Track Press_Workplane	Illuminance	Fc	45.43	55.2	27.5	1.65	2.01

Landreth Lighting Luminaire Schedule

Symbol	[MANUFAC]	Qty	Label	Description	LLF	Arrangement Luminaire Lumens	Arrangement Watts
	Lithonia Lighting	22	B	CPHB 24000LM SEF GCL MD MVOLT GZ10 40K 70CRI NLTAIR2 RLSXR6	1.000	26077	174.41
	Lithonia Lighting	12	BE	CPHB 24000LM SEF GCL MD MVOLT GZ10 40K 70CRI NLTAIR2 RLSXR6	1.000	26077	174.41
	Lithonia Lighting	17	C	JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-DWHXD (Mounting TBD)	1.000	13461	79.54
	Lithonia Lighting	4	CE	JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-E10WCP-DWHXD (Mounting TBD)	1.000	13461	79.54

1 BUILDING A FLOOR PLAN - LIGHTING PHOTOMETRIC
E3.12 1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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P H O N E : (9 1 9) 2 8 7 - 0 5 0 4

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INGENUITY ENGINEERS, INC.
"INNOVATIVE ENGINEERING SOLUTIONS"
6275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.898.6007

General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - PHOTOMETRICS

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B. HARRELL PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E3.12

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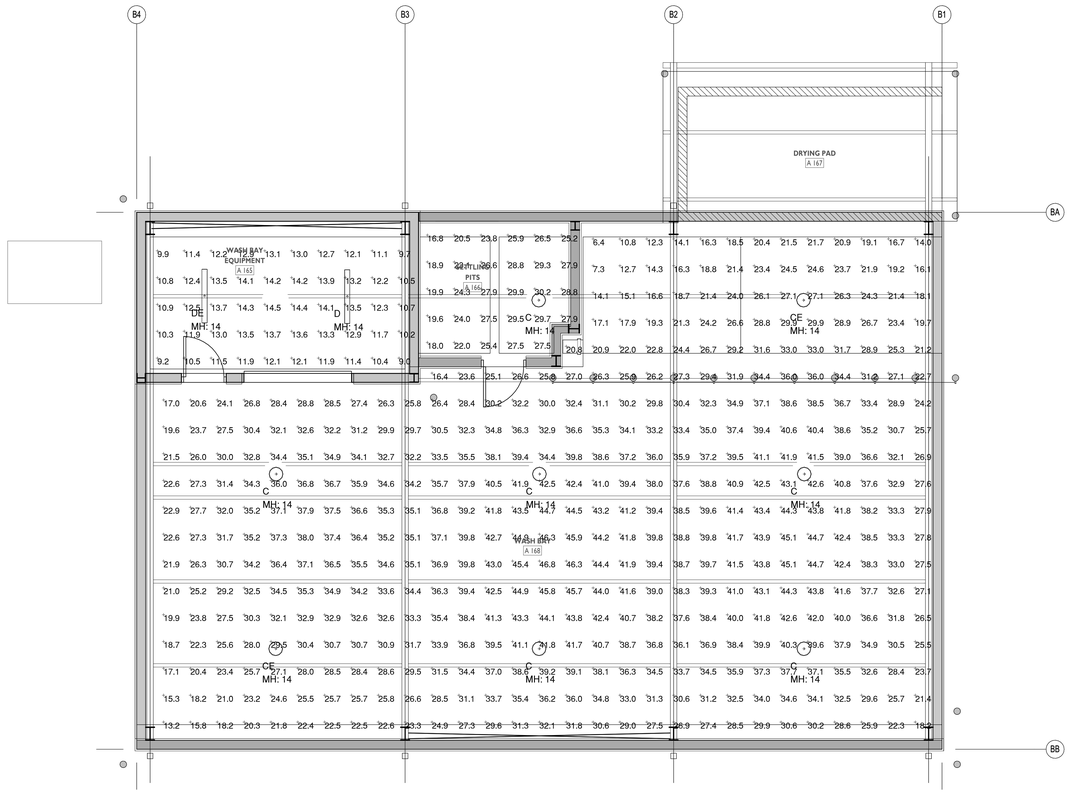

Landreth Lighting Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Settling Pits_Workplane	Illuminance	Fc	25.27	30.2	16.8	1.50	1.80
Wash Bay Equip_Workplane	Illuminance	Fc	12.24	14.5	9.0	1.36	1.61
Wash Bay_Workplane	Illuminance	Fc	32.02	46.8	6.4	5.00	7.31

Landreth Lighting Luminaire Schedule

Symbol	[MANUFAC]	Qty	Label	Description	LLF	Arrangement Luminaire Lumens	Arrangement Watts
⊕	Lithonia Lighting	6	C	JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-DWHXD (Mounting TBD)	1.000	13461	79.54
⊕	Lithonia Lighting	2	CE	JCBL-12000LM-ACCR-MVOLT-GZ10-40K-80CRI-PM-E10WCP-DWHXD (Mounting TBD)	0.630	13461	79.54
▭	Lithonia Lighting	1	D	CSVT L48 5000LM MVOLT 40K 80CRI	1.000	4947	41.99
▭	Lithonia Lighting	1	DE	CSVT L48 5000LM MVOLT 40K 80CRI IE7WCP	1.000	4947	41.99

1 / E3.13 BUILDING B FLOOR PLAN - LIGHTING PHOTOMETRIC
1/4" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING B FLOOR PLAN - PHOTOMETRICS

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
REGISTERED PROFESSIONAL ENGINEER
JOSEPH B HARRELL — PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E3.13

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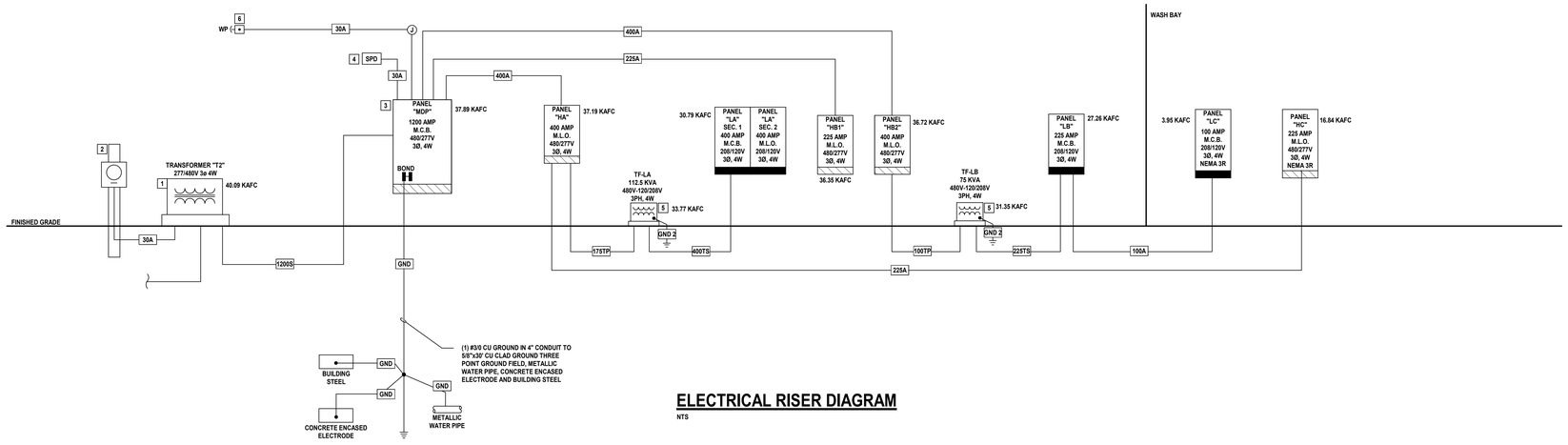


ELECTRICAL RISER DIAGRAM

NTS

ELECTRICAL RISER NOTES

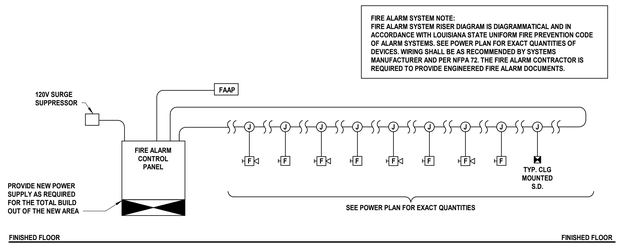
1. PAD UTILITY MOUNTED TRANSFORMER WITH CONCRETE HOUSEKEEPING PAD CONSTRUCTED PER UTILITY COMPANY REQUIREMENTS. FIELD VERIFY THE EXACT LOCATION PRIOR TO BIDDING. SECONDARY VOLTAGE 480/277V, 3PH, 4W.
2. 480/277V, 3PH, 4W ELECTRICAL W.P. C.T. TYPE METER CAN MOUNTED ON 6" X 6" X 10'-0" CONCRETE PEDESTAL. PROVIDE PERMANENT IDENTIFICATION LABELS W/ ADDRESS ON ENCLOSURE.
3. 480/277V, 3PH, 4W NEMA 3R, SERVICE RATED ELECTRICAL MAIN DISTRIBUTION PANEL "MDP". PROVIDE PERMANENT NAMEPLATE "BUILDING SERVICE DISCONNECT". MOUNT ON CONCRETE HOUSEKEEPING PAD.
4. SURGE PROTECTION DEVICE -TOTAL PROTECTION SOLUTIONS TT2-100-3Y208-FL
5. 480V-208/120V, NEMA 3R DELTA-WYE, DRY-TYPE TRANSFORMER. MOUNT ON CONCRETE HOUSEKEEPING PAD.
6. W.P. SHUNT TRIP PUSH BUTTON MOUNTED IN KNOX BOX. LOCATION SHALL BE ACCORDING TO AUTHORITY HAVING JURISDICTION.

WIRE AND CONDUIT SCHEDULE

WIRE AND CONDUIT SCHEDULE NOTES

1. ALL PARALLEL SETS OF CONDUCTORS MUST HAVE FULL SIZE GROUNDING CONDUCTOR IN EACH CONDUIT

FEEDER CODE	CONDUCTORS			CONDUIT SIZE
	PHASE SIZE	NEUTRAL SIZE	GROUND SIZE	
30A	#10 AWG CU	#10 AWG CU	#10 AWG CU	3/4"
100A	#2 AWG CU	#2 AWG CU	#6 AWG CU	1-1/2"
100TP	#1 AWG AL	---	#8 AWG CU	1-1/2"
175TP	#3/0 AWG AL	---	#6 AWG CU	2"
225A	300 KCMIL AL	300 KCMIL AL	#4 AWG CU	3"
225TS	300 KCMIL AL	300 KCMIL AL	#4 AWG CU	3"
400A	250 KCMIL AL X 2 PARALLEL SETS	250 KCMIL AL X 2 PARALLEL SETS	#3 AWG X 2 SETS	4" X 2 SETS
400TS	250 KCMIL AL X 2 PARALLEL SETS	250 KCMIL AL X 2 PARALLEL SETS	#3 AWG X 2 SETS	4" X 2 SETS
1200S	500 KCMIL AL X 4 PARALLEL SETS	500 KCMIL AL X 4 PARALLEL SETS	---	4" X 4 SETS
GND	---	---	#3/0 AWG CU	4"
GND 2	---	---	#2 AWG CU	4"



FIRE ALARM RISER DIAGRAM

N.T.S.

FIRE ALARM SYSTEM SEQUENCE OF OPERATIONS (REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

A. FIRE ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES:
   1. MANUAL STATIONS.
   2. HEAT DETECTORS.
   3. SMOKE DETECTORS.
   4. VERIFIED AUTOMATIC ALARM OPERATION OF SMOKE DETECTORS.
   5. AUTOMATIC SPRINKLER SYSTEM WATER FLOW.

B. FIRE ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS:
   1. ALARM NOTIFICATION APPLIANCES SHALL OPERATE CONTINUOUSLY
   2. IDENTIFY ALARM AT THE FACP AND REMOTE ANNUNCIATORS.
   3. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION.
   4. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE ALARM MODE.
   5. RECORD EVENTS IN THE SYSTEM MEMORY.

C. SUPERVISORY SIGNAL INITIATION SHALL BE BY OPERATION OF A FIRE-PROTECTION SYSTEM VALVE TAMPER.

D. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES OR ACTIONS:
   1. OPEN CIRCUITS, SHORTS AND GROUNDS OF WIRING FOR INITIATING DEVICE, SIGNALING LINE, AND NOTIFICATION-APPLIANCE CIRCUITS.
   2. OPENING, TAMPERING, OR REMOVAL OF ALARM-INITIATING AND SUPERVISORY SIGNAL-INITIATING DEVICES.
   3. LOSS OF PRIMARY POWER AT THE FACP.
   4. GROUND OR A SINGLE BREAK IN FACP INTERNAL CIRCUITS.
   5. ABNORMAL AC VOLTAGE AT THE FACP.
   6. A BREAK IN STANDBY BATTERY CIRCUITRY.
   7. FAILURE OF BATTERY CHARGING.
   8. ABNORMAL POSITION OF ANY SWITCH AT THE FACP OR ANNUNCIATOR.

E. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: RING TROUBLE BELL AND ANNUNCIATE AT THE FACP AND REMOTE ANNUNCIATORS. RECORD THE EVENT.

F. ACTUATION OF ALARM NOTIFICATION APPLIANCES, ANNUNCIATION, ELEVATOR RECALL, AND ACTUATION OF SUPPRESSION SYSTEMS SHALL OCCUR WITHIN 10 SECONDS AFTER THE ACTIVATION OF AN INITIATING DEVICE.

G. SMOKE-ALARM VERIFICATION:
   1. INITIATE AUDIBLE AND VISIBLE INDICATION OF AN "ALARM VERIFICATION" SIGNAL AT THE FACP.
   2. ACTIVATE A LISTED AND APPROVED "ALARM VERIFICATION" SEQUENCE AT THE FACP AND THE DETECTOR.
   3. RECORD EVENTS.
   4. SOUND GENERAL ALARM IF THE ALARM IS VERIFIED.
   5. CANCEL FACP INDICATION AND SYSTEM RESET IF THE ALARM IS NOT VERIFIED.

H. POWER SUPPLY FOR SUPERVISION EQUIPMENT: SUPPLY FOR AUDIBLE AND VISUAL EQUIPMENT FOR SUPERVISION OF THE AC POWER SHALL BE FROM A DEDICATED DC POWER SUPPLY, AND POWER FOR THE DC COMPONENT SHALL BE FROM THE AC SUPPLY.

I. ALARM SILENCING, TROUBLE, AND SUPERVISORY ALARM RESET: MANUAL RESET AT THE FACP AND REMOTE ANNUNCIATORS, AFTER INITIATING DEVICES ARE RESTORED TO NORMAL.
   1. SILENCING-SWITCH OPERATION HALTS ALARM OPERATION OF NOTIFICATION APPLIANCES AND ACTIVATES AN "ALARM SILENCE" LIGHT. DISPLAY OF IDENTITY OF THE ALARM ZONE OR DEVICE IS RETAINED.
   2. SUBSEQUENT ALARM SIGNALS FROM OTHER DEVICES OR ZONES REACTIVATE NOTIFICATION APPLIANCES UNTIL SILENCING SWITCH IS OPERATED AGAIN.
   3. WHEN ALARM-INITIATING DEVICES RETURN TO NORMAL AND SYSTEM RESET SWITCH IS OPERATED, NOTIFICATION APPLIANCES OPERATE AGAIN UNTIL ALARM SILENCE SWITCH IS RESET.

J. DUCT SMOKE DETECTORS SHALL BE PROGRAMMED AS A SUPERVISORY SIGNAL-FUNCTION IN ACCORDANCE WITH 9.6.3.2.2, NFPA 101, 2021 ED. AS ADOPTED IN THE FFPC, 8TH ED.

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

ELECTRICAL RISERS

Seal

STATE OF LOUISIANA
JOSEPH BENJAMIN HARRELL
License No. 37921
PROFESSIONAL ENGINEER
JOSEPH B HARRELL PE 37921

Date: 10/03/2025
Drawn By: DRP
Checked By: JBH
Project No:

Drawing No.

E6.01

ISSUED FOR PERMIT

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Name: MDP

MAIN BREAKER: 1200 AMPS
MAIN LUGS: AMPS
PHASE: 3
WIRE: 4
K.A.I.C.: 42 AMPS
SURFACE MTD: X
FLUSH MTD:
208/120V
480Y/277V X
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: TRANSFORMER

NOTES	CKT NO	IDENTIFICATION	WIRE SIZE	LOAD (KVA)	TRIP	POLES
	1	HA	SEE RISER DIAGRAM	214.6	400 A	3
	2	HB1	SEE RISER DIAGRAM	33.7	225 A	3
	3	HB2	SEE RISER DIAGRAM	308.6	400 A	3
	4	AIR COMPRESSOR	3#250AL, 1#6G, 2-1/2"C	144.0	200 A	3
	5	SPD	SEE RISER DIAGRAM	0.0	30 A	3
	6	SPACE	--	--	--	1
	7	SPACE	--	--	--	1
	8	SPACE	--	--	--	1
	9	SPACE	--	--	--	1
	10	SPACE	--	--	--	1
	11	SPACE	--	--	--	1
	12	SPACE	--	--	--	1
	13	SPACE	--	--	--	1
	14	SPACE	--	--	--	1
	15	SPACE	--	--	--	1
	16	SPACE	--	--	--	1
		Total Connected Load:		700.9		
		Total Connected Amps:		843 A		

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...

Total Connected Load: 700.9 kVA
Total Demand Load: 689.8 kVA
Total Demand Amps: 830 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: HA

MAIN BREAKER: AMPS
MAIN LUGS: 400 AMPS
K.A.I.C. : 42 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
208Y/120V
X 480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: MDP

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	EXTERIOR LIGHTING	20 A	1	2#12, 1#12G, 1/2"C	1.02	2.79		2#12, 1#12G, 1/2"C	1	20 A	REPAIR SHOP LIGHTING	2
3	EXTERIOR CANOPY LTG	20 A	1	2#12, 1#12G, 1/2"C		0.34	2.09	2#12, 1#12G, 1/2"C	1	20 A	REPAIR SHOP LIGHTING	4
5	EXTERIOR LIGHTING	20 A	1	2#12, 1#12G, 1/2"C			0.84 1.09	2#12, 1#12G, 1/2"C	1	20 A	LIGHTING PARTS	6
7	EXTERIOR BACK BAY LTG	20 A	1	2#12, 1#12G, 1/2"C	0.86	1.12		2#12, 1#12G, 1/2"C	1	20 A	OFFICE SPACE LTG	8
9	LIGHTING CONTROL PNL	20 A	1	2#12, 1#12G, 1/2"C		0.40	0.48	2#12, 1#12G, 1/2"C	1	20 A	OFFICE SPACE LTG	10
11	TRACK PRESS RM LTG	20 A	1	2#12, 1#12G, 1/2"C			1.05 1.24	2#12, 1#12G, 1/2"C	1	20 A	RENTAL LIGHTING	12
13	SITE LIGHTING	20 A	1	2#12, 1#12G, 1/2"C	1.91	1.45		2#12, 1#12G, 1/2"C	1	20 A	OFFICE SPACE LTG	14
15	SITE LIGHTING	20 A	1	2#12, 1#12G, 1/2"C		1.54	0.81	2#12, 1#12G, 1/2"C	1	20 A	OFFICE SPACE LTG	16
17	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0.00	0.00		--	1	20 A	SPARE	20
21	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	22
23	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	24
25	SPACE	--	1	--	0.00	--		--	1	--	SPACE	26
27	SPACE	--	1	--		--	--	--	1	--	SPACE	28
29	SPACE	--	1	--			-- --	--	1	--	SPACE	30
31	SPACE	--	1	--	--	--		--	1	--	SPACE	32
33	SPACE	--	1	--		--	--	--	1	--	SPACE	34
35	SPACE	--	1	--			-- --	--	1	--	SPACE	36
37	SPACE	--	1	--	--	--		--	1	--	SPACE	38
39	SPACE	--	1	--		--	--	--	1	--	SPACE	40
41	SPACE	--	1	--			-- --	--	1	--	SPACE	42
	Phase Connected Load:				75.7	68.4	70.4					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
HVAC	74.31 kVA	100.00%	74.31 kVA
Lighting	19.98 kVA	125.00%	24.98 kVA
Misc. Noncontinuous	82.95 kVA	100.00%	82.95 kVA
Motor	10.41 kVA	102.88%	10.71 kVA
Receptacle	26.95 kVA	68.55%	18.48 kVA

Total Connected Load: 214.6 kVA
Total Demand Load: 211.4 kVA
Demand Amps: 254 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: HB1

MAIN BREAKER: AMPS
MAIN LUGS: 225 AMPS
K.A.I.C. : 42 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
208Y/120V
X 480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: MDP

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.00		--	1	20 A	SPARE	2
3	--	--	--	--		0.75	0.00	--	1	20 A	SPARE	4
5	--	--	--	--			0.75 0.00	--	1	20 A	SPARE	6
7	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.00		--	1	20 A	SPARE	8
9	--	--	--	--		0.75	0.00	--	1	20 A	SPARE	10
11	--	--	--	--			0.75 0.00	--	1	20 A	SPARE	12
13	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.00		--	1	20 A	SPARE	14
15	--	--	--	--		0.75	--	--	1	--	SPACE	16
17	--	--	--	--		1	0.75 --	--	1	--	SPACE	18
19	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	--		--	1	--	SPACE	20
21	--	--	--	--		0.75	--	--	1	--	SPACE	22
23	--	--	--	--			0.75 --	--	1	--	SPACE	24
25	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	--		--	1	--	SPACE	26
27	--	--	--	--		0.75	--	--	1	--	SPACE	28
29	--	--	--	--			0.75 --	--	1	--	SPACE	30
31	TRACK PRESS MACH.	35 A	3	3#8, 1#8G,1*C	7.49	--		--	1	--	SPACE	32
33	--	--	--	--		7.49	--	--	1	--	SPACE	34
35	--	--	--	--			7.49 --	--	1	--	SPACE	36
37	SPARE	20 A	1	--	0.00	--		--	1	--	SPACE	38
39	SPARE	20 A	1	--		0.00	--	--	1	--	SPACE	40
41	SPARE	20 A	1	--			0.00 --	--	1	--	SPACE	42
	Phase Connected Load:				11.2	11.2	11.2					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
HVAC	22.48 kVA	100.00%	22.48 kVA
Motor	11.25 kVA	105.00%	11.81 kVA

Total Connected Load: 33.7 kVA
Total Demand Load: 34.3 kVA
Demand Amps: 41 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: HB2

MAIN BREAKER: AMPS
MAIN LUGS: 400 AMPS
K.A.I.C. : 42 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
208Y/120V
X 480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: MDP

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	10-TON BRIDGE CRANE	100 A	3	3#1AL, 1#6G, 1-1/2"C	21.87	0.75		3#12, 1#12G, 1/2"C	3	20 A	OVERHEAD DOOR	2
3	--	--	--	--		21.87	0.75	--	--	--	--	4
5	--	--	--	--			21.87 0.75	--	--	--	--	6
7	10-TON BRIDGE CRANE	100 A	3	3#1AL, 1#6G, 1-1/2"C	21.87	0.75		3#12, 1#12G, 1/2"C	3	20 A	OVERHEAD DOOR	8
9	--	--	--	--		21.87	0.75	--	--	--	--	10
11	--	--	--	--			21.87 0.75	--	--	--	--	12
13	20-TON BRIDGE CRANE	200 A	3	3#250AL, 1#4G, 2-1/2"C	41.33	0.75		3#12, 1#12G, 1/2"C	3	20 A	OVERHEAD DOOR	14
15	--	--	--	--		41.33	0.75	--	--	--	--	16
17	--	--	--	--			41.33 0.75	--	--	--	--	18
19	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.75		3#12, 1#12G, 1/2"C	3	20 A	OVERHEAD DOOR	20
21	--	--	--	--		0.75	0.75	--	--	--	--	22
23	--	--	--	--			0.75 0.75	--	--	--	--	24
25	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.75		3#12, 1#12G, 1/2"C	3	20 A	OVERHEAD DOOR	26
27	--	--	--	--		0.75	0.75	--	--	--	--	28
29	--	--	--	--			0.75 0.75	--	--	--	--	30
31	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	0.00		--	1	20 A	SPARE	32
33	--	--	--	--		0.75	0.00	--	1	20 A	SPARE	34
35	--	--	--	--			0.75 0.00	--	1	20 A	SPARE	36
37	OVERHEAD DOOR	20 A	3	3#12, 1#12G, 1/2"C	0.75	13.10		SEE RISER DIAGRAM	3	100 A	PANEL "LB" VIA T-HB2	38
39	--	--	--	--		0.75	9.24	--	--	--	--	40
41	--	--	--	--			0.75 10.83	--	--	--	--	42
	Phase Connected Load:				104.9	101.1	102.7					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
HVAC	261.21 kVA	100.00%	261.21 kVA
Misc. Noncontinuous	9.20 kVA	100.00%	9.20 kVA
Motor	21.72 kVA	102.59%	22.28 kVA
Receptacle	16.50 kVA	80.30%	13.25 kVA

Total Connected Load: 308.6 kVA
Total Demand Load: 305.9 kVA
Demand Amps: 368 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: HC

MAIN BREAKER: AMPS
MAIN LUGS: 200 AMPS
K.A.I.C. : 22 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
208Y/120V
X 480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: HA

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	HIGH PRESSURE WASHER	125 A	3	3#2/0AL, 1#6G, 2"C	27.65	0.14		--	1	20 A	EQUIPMENT RM LTG	2
3	--	--	--	--		27.65	0.41	--	1	20 A	WASHBAY LIGHTING	4
5	--	--	--	--			27.65 0.35	2#12, 1#12G, 1/2"C	1	20 A	EXTERIOR LIGHTING	6
7	SPARE	20 A	1	--	0.00	0.20		2#12, 1#12G, 1/2"C	1	20 A	LC	8
9	SPARE	20 A	1	--		0.00	0.00	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0.00	0.00		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0.00	0.00	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	18
19	SPARE	20 A	1	--	0.00	0.00		--	1	20 A	SPARE	20
21	SPARE	20 A	1	--		0.00	0.00	--	1	20 A	SPARE	22
23	SPACE	--	1	--			-- --	--	1	--	SPACE	24
25	SPACE	--	1	--	--	--		--	1	--	SPACE	26
27	SPACE	--	1	--		--	--	--	1	--	SPACE	28
29	SPACE	--	1	--			-- --	--	1	--	SPACE	30
31	SPACE	--	1	--	--	--		--	1	--	SPACE	32
33	SPACE	--	1	--		--	--	--	1	--	SPACE	34
35	SPACE	--	1	--			-- --	--	1	--	SPACE	36
37	SPACE	--	1	--	--	--		--	1	--	SPACE	38
39	SPACE	--	1	--		--	--	--	1	--	SPACE	40
41	SPACE	--	1	--			-- --	--	1	--	SPACE	42
	Phase Connected Load:				28.0	28.1	28.0					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
Lighting	1.11 kVA	125.00%	1.38 kVA
Misc. Noncontinuous	82.95 kVA	100.00%	82.95 kVA

Total Connected Load: 84.1 kVA
Total Demand Load: 84.3 kVA
Demand Amps: 101 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: LA

MAIN BREAKER: AMPS
MAIN LUGS: 400 AMPS
K.A.I.C. : 42 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
X 208Y/120V
480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: XMER T-LA

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	SIGNAGE	20 A	1	2#12, 1#12G, 1/2"C	1.20	0.73		2#6, 1#10G, 1"C	2	60 A	HP-1	2
3	HVAC REC.	20 A	1	2#12, 1#12G, 1/2"C		0.18	0.73	--	--	--	--	4
5	ELEC RM REC.	20 A	1	2#12, 1#12G, 1/2"C			0.18 0.73	2#6, 1#10G, 1"C	2	60 A	HP-2	6
7	RESTROOM REC.	20 A	1	2#12, 1#12G, 1/2"C	0.72	0.73		--	--	--	--	8
9	HALLWAY REC.	20 A	1	2#12, 1#12G, 1/2"C		0.36	0.40	2#8, 1#10G, 3/4"C	2	30 A	HP-3	10
11	EWC-1*	20 A	1	2#12, 1#12G, 1/2"C			0.37 0.40	--	--	--	--	12
13	CONFERENCE RM REC.	20 A	1	2#12, 1#12G, 1/2"C	1.26	0.40		2#8, 1#10G, 3/4"C	2	30 A	HP-4	14
15	TV REC	20 A	1	2#12, 1#12G, 1/2"C		0.54	0.40	--	--	--	--	16
17	MANAGER RM REC.	20 A	1	2#12, 1#12G, 1/2"C			0.72 0.45	2#8, 1#10G, 1"C	2	35 A	HP-5	18
19	SALES/ADMIN RM REC.	20 A	1	2#12, 1#12G, 1/2"C	1.08	0.45		2#8, 1#10G, 1"C	2	60 A	HP-6	20
21	SHOW WINDOW REC.	20 A	1	2#12, 1#12G, 1/2"C		1.08	0.45	2#8, 1#10G, 1"C	2	35 A	HP-6	22
23	RETAIL RM REC.	20 A	1	2#12, 1#12G, 1/2"C			1.26 0.45	--	--	--	--	24
25	RENTAL FLOOR REC.	20 A	1	2#12, 1#12G, 1/2"C	0.72	0.73		2#6, 1#10G, 1"C	2	60 A	HP-7	26
27	SERVICE RM REC.	20 A	1	2#12, 1#12G, 1/2"C		1.44	0.73	--	--	--	--	28
29	BREAK RM REC.	20 A	1	2#12, 1#12G, 1/2"C			0.90 6.13	2#4, 1#8G, 1-1/4"C	2	80 A	FCU-1	30
31	REF REC.*	20 A	1	2#12, 1#12G, 1/2"C	0.60	6.13		--	--	--	--	32
33	SALES RM REC.	20 A	1	2#12, 1#12G, 1/2"C		1.08	6.13	2#4, 1#8G, 1-1/4"C	2	80 A	FCU-2	34
35	SALES RM REC	20 A	1	2#12, 1#12G, 1/2"C			0.54 6.13	--	--	--	--	36
37	CORPORATE DESK	20 A	3	3#12, 1#12G, 1/2"C	0.30	4.00		2#6, 1#10G, 1"C	2	60 A	FCU-3	38
39	--	--	--	--		0.30	4.00	--	--	--	--	40
41	--	--	--	--			0.30 4.00	2#6, 1#10G, 1"C	2	60 A	FCU-4	42
43	CORPORATE DESK	20 A	1	2#12, 1#12G, 1/2"C	0.30	4.00		--	--	--	--	44
45	BREAK RM 2 REC.	20 A	1	2#12, 1#12G, 1/2"C		0.90	4.00	2#6, 1#10G, 1"C	2	60 A	FCU-5	46
47	REF REC.*	20 A	1	2#12, 1#12G, 1/2"C			0.60 4.00	--	--	--	--	48
49	ROLL-UP DOOR	20 A	1	2#12, 1#12G, 1/2"C	1.08	4.00		2#6, 1#10G, 1"C	2	60 A	FCU-6	50
51	PARTS RM REC.	20 A	1	2#12, 1#12G, 1/2"C		1.62	4.00	--	--	--	--	52
53	RESTROOM REC.	20 A	1	2#12, 1#12G, 1/2"C			0.36 4.31	2#4, 1#8G, 1-1/4"C	2	80 A	FCU-7	54
55	CONFERENCE RM REC.	20 A	1	2#12, 1#12G, 1/2"C	1.08	4.31		--	--	--	--	56
57	HALLWAY REC.	20 A	1	2#12, 1#12G, 1/2"C		0.72	0.75	2#12, 1#12G, 1/2"C	2	15 A	AC-1.1/CU-1.1	58
59	OFFICE RM REC.	20 A	1	2#12, 1#12G, 1/2"C			1.08 0.75	--	--	--	--	60
61	OFFICE RM REC.	20 A	1	2#12, 1#12G, 1/2"C	1.08	0.50		2#12, 1#12G, 1/2"C	1	20 A	EF-1	62
63	ICE MACHINE*	20 A	1	2#12, 1#12G, 1/2"C		1.20	0.70	2#12, 1#12G, 1/2"C	1	20 A	EF-4	64
65	EXTERIOR GATE	20 A	1	2#12, 1#12G, 1/2"C			1.44 0.03	2#12, 1#12G, 1/2"C	1	20 A	EF-6	66
67	EXTERIOR GATE	20 A	1	2#12, 1#12G, 1/2"C	1.44	0.70		2#12, 1#12G, 1/2"C	1	20 A	EF-7	68
69	EF-2.1	20 A	1	2#12, 1#12G, 1/2"C		1.20	0.70	2#12, 1#12G, 1/2"C	1	20 A	EF-8	70
71	EF-2.2	20 A	1	2#12, 1#12G, 1/2"C			1.20 0.70	2#12, 1#12G, 1/2"C	1	20 A	EF-9	72
73	EF-2.3	20 A	1	2#12, 1#12G, 1/2"C	1.20	0.00		--	1	20 A	SPARE	74
75	EF-2.4	20 A	1	2#12, 1#12G, 1/2"C		1.20	0.00	--	1	20 A	SPARE	76
77	EF-2.5	20 A	1	2#12, 1#12G, 1/2"C			1.20 0.00	--	1	20 A	SPARE	78
79	SPARE	20 A	1	--	0.00	--		--	1	--	SPACE	80
81	SPARE	20 A	1	--		0.00	--	--	1	--	SPACE	82
83	SPARE	20 A	1	--			0.00 --	--	1	--	SPACE	84
	Phase Connected Load:				38.7	34.8	38.2					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
HVAC	74.31 kVA	100.00%	74.31 kVA
Motor	10.41 kVA	102.88%	10.71 kVA
Receptacle	26.95 kVA	68.55%	18.48 kVA

Total Connected Load: 111.7 kVA
Total Demand Load: 103.5 kVA
Demand Amps: 287 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
CIRCUIT BREAKER PROVIDE NEUTRAL & GROUND BUS

*=PROVIDE GFCI

Name: LB

MAIN BREAKER: 225 AMPS
MAIN LUGS: AMPS
K.A.I.C. : 42 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
X 208Y/120V
480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: XMER T-HB2

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C	1.44			--				
3	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C		1.44	0.00	--	1	20 A	SPARE	4
5	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C			1.44 0.00	--	1	20 A	SPARE	6
7	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C	1.44	0.00		--	1	20 A	SPARE	8
9	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C		1.44	0.00	--	1	20 A	SPARE	10
11	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C			1.44 0.00	--	1	20 A	SPARE	12
13	RETAIL SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C	1.80	0.00		--	1	20 A	SPARE	14
15	TRACK PRESS REC.	20 A	1	2#12, 1#12G, 1/2"C		1.44	0.00	--	1	20 A	SPARE	16
17	MAKE READY SHOP REC.	20 A	1	2#12, 1#12G, 1/2"C			1.44 0.00	--	1	20 A	SPARE	18
19	EXTERIOR REC.	20 A	1	2#12, 1#12G, 1/2"C	1.44	0.00		--	1	20 A	SPARE	20
21	WELDER	40 A	3	3#8, 1#8G, 1*C		3.00	0.00	--	1	20 A	SPARE	22
23	--	--	--	--			3.00 --	--	1	--	SPACE	24
25	--	--	--	--	3.00	--		--	1	--	SPACE	26
27	RH-1 THRU RH-4	20 A	1	2#12, 1#12G, 1/2"C		0.48	--	--	1	--	SPACE	28
29	RH-5 THRU RH-8	20 A	1	2#12, 1#12G, 1/2"C			0.48 --	--	1	--	SPACE	30
31	RH-9 AND RH-10	20 A	1	2#12, 1#12G, 1/2"C	0.24	--		--	1	--	SPACE	32
33	HWRP-1	20 A	1	2#12, 1#12G, 1/2"C		0.07	--	--	1	--	SPACE	34
35	EWH-1	30 A	2	2#10, 1#10G, 3/4"C			2.25 --	--	1	--	SPACE	36
37	--	--	--	--	2.25	--		--	1	--	SPACE	38
39	EF-5.1	20 A	1	2#12, 1#12G, 1/2"C		0.03	--	--	1	--	SPACE	40
41	EF-5.2	20 A	1	2#12, 1#12G, 1/2"C			0.03 --	--	1	--	SPACE	42
43	FACP	20 A	1	2#12, 1#12G, 1/2"C	0.20	--		--	1	--	SPACE	44
45	IRRIGATION CONTROLLER	20 A	1	2#12, 1#12G, 1/2"C		1.20	--	--	1	--	SPACE	46
47	SPARE	20 A	1	--			0.00 --	--	1	--	SPACE	48
49	SPARE	20 A	1	--	0.00	1.29		SEE RISER DIAGRAM	3	100 A	PANEL LC	50
51	SPARE	20 A	1	--			0.00 0.14	--	--	--	--	52
53	SPARE	20 A	1	--			0.00 0.75	--	--	--	--	54
	Phase Connected Load:				13.1	9.2	10.8					

	CONN. LOAD...	DEMAND FACTOR	DEMAND LOAD...
HVAC	6.00 kVA	100.00%	6.00 kVA
Misc. Noncontinuous	9.20 kVA	100.00%	9.20 kVA
Motor	1.47 kVA	102.38%	1.51 kVA
Receptacle	16.50 kVA	80.30%	13.25 kVA

Total Connected Load: 33.2 kVA
Total Demand Load: 30.0 kVA
Demand Amps: 83 A

Notes:
PROVIDE TYPE WRITTEN DIRECTORY
PROVIDE NEUTRAL & GROUND BUS

Name: LC

MAIN BREAKER: AMPS
MAIN LUGS: 100 AMPS
K.A.I.C. : 22 AMPS
SURFACE MTD: X
FLUSH MTD:

3 PHASE
4 WIRE
X 208Y/120V
480Y/277V
240/120V

Project Name: WPI KOMATSU - BATON ROUGE, LA
Project Number: I25370
Fed From: LB

CKT	LOAD NAME	TRIP	POLES	WIRE SIZE	A	B	C	WIRE SIZE	POLE...	TRIP	LOAD NAME	CKT
1	WASHBAY RECEPTACLE	20 A	1	2#12, 1#12G, 1/2"C	0.54	0.00		--	1	20 A	SPARE	2
3	EF-3	20 A	1	2#12, 1#12G, 1/2"C		0.14	0.00	--	1	20 A	SPARE	4
5	EH-1	20 A	2	2#12, 1#12G, 1/2"C			0.75 0.00	--	1	20 A	SPARE	6
7	--	--	--	--	0.75	0.00		--	1	20 A	SPARE	8
9	SPARE	20 A	1	--		0.00	0.00	--	1	20 A	SPARE	10
11	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	12
13	SPARE	20 A	1	--	0.00	0.00		--	1	20 A	SPARE	14
15	SPARE	20 A	1	--		0.00	0.00	--	1	20 A	SPARE	16
17	SPARE	20 A	1	--			0.00 0.00	--	1	20 A	SPARE	18
19	SPACE	--	1	--	--	--		--	1	--	SPACE	20
21	SPACE	--	1	--		--	--	--	1	--	SPACE	22
23	SPACE	--	1	--			-- --	--	1	--	SPACE	24
25	SPACE	--	1	--	--	--		--	1	--	SPACE	26
27	SPACE	--	1	--		--	--	--	1	--	SPACE	28
29	SPACE	--	1	--			-- --	--	1	--	SPACE	30
31	SPACE	--	1	--	--	--		--	1	--	SPACE	32
33	SPACE	--	1	--		--	--	--	1	--	SPACE	34
35	SPACE	--	1	--			-- --	--	1	--	SPACE	36
37	SPACE	--	1	--	--	--		--	1

ABBREVIATIONS

ABV	ABOVE	GI	GREASE INTERCEPTOR
AC	AIR COMPRESSOR	GND	GROUND
AD	AREA DRAIN	HB	HOSE BIBB
AFF	ABOVE FINISH FLOOR	HP	HORSE POWER
AFG	ABOVE FINISH GRADE	HW	HOT WATER
AP	ACCESS PANEL	HZ	HERTZ
BFC	BELOW FINISH CEILING	IN	INCH
BFP	BACK FLOW PREVENTER	INV	INVERT ELEVATION
BOH	BACK OF HOUSE/NON PUBLIC AREA	JP	JOCKEY PUMP
BOP	BOTTOM OF PIPE	MC	MECHANICAL CONTRACTOR
BP	BOOSTER PUMP	MH	MANHOLE
CB	CATCH BASIN	MIC	MICROBIAL INFLUENCED CORROSION
CLG	CEILING	MTD	MOUNTED
CO	CLEANOUT	MTR	MOTOR
CP	CONDENSATE PUMP	NC	NORMALLY CLOSED
CSP	COMBINED STANDPIPE	NIC	NOT IN CONTRACT
CW	COLD WATER	NO	NORMALLY OPEN
DAS	DRY AUTOMATIC SPRINKLER	OGH	OUTSIDE GROUND HYDRANT
DDCV	DOUBLE DETECTION CHECK VALVE	OS&Y	OUTSIDE SCREW & YOKE
DSP	DRY STANDPIPE	OWH	OUTSIDE WALL HYDRANT
DST	DIESEL STORAGE TANK	PC	PLUMBING CONTRACTOR
DW	DOMESTIC WATER	PIV	POST INDICATOR VALVE
DWP	DOMESTIC WATER PUMP	PRV	PRESSURE REDUCING VALVE
EC	ELECTRICAL CONTRACTOR	PSI	POUNDS PER SQUARE INCH
FC	FLEXIBLE CONNECTOR	RCP	REFLECTED CEILING PLAN
FCV	FLOOR CONTROL VALVE	RD	ROOF DRAIN
FD	FLOOR DRAIN	RPZ	REDUCED PRESSURE ZONE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FEET
FE	FIRE EXTINGUISHER	SP	SUMP PUMP
FH	FIRE HYDRANT	SPR	SPRINKLER
FHC	FIRE HOSE CABINET	SPKS	SPRINKLERS
FHV	FIRE HOSE VALVE	TOP	TOP OF PIPE
FP	FIRE PUMP	TS	TAMPER SWITCH
FL	FLOOR	TYP	TYPICAL
FOH	FRONT OF HOUSE/PUBLIC AREA	UG	UNDERGROUND
FS	FLOW SWITCH	UH	UNIT HEATER
FT	FEET	WAS	WET AUTOMATIC SPRINKLER
FT-HD	FEET HEAD	WM	WATER METER
GC	GENERAL CONTRACTOR	WSP	WET STANDPIPE
		YH	YARD HYDRANT

SYMBOL LEGEND

SINGLE LINE		SINGLE LINE	DOUBLE LINE
	VALVE, SEE PLAN FOR TYPE		PIPE ABOVE GRADE
	PRESSURE REDUCING VALVE		PIPE BELOW GRADE
	BALL VALVE		ELBOW UP
	CHECK VALVE		ELBOW DOWN
	STRAINER		REMOTE FDC OR TEST HEADER
	PRESSURE GAUGE WITH STOP		WALL FDC OR TEST HEADER
	SIDEWALL SPRINKLER		STANDPIPE HOSE VALVE CONNECTION
	PENDENT SPRINKLER		STANDPIPE HOSE VALVE CABINET
	UPRIGHT SPRINKLER		
XX-XX	FIRE PROTECTION HAZARD CLASSIFICATION		OS&Y GATE VALVE
X	REFERENCE NOTE		
	FIRE HYDRANT		

FIRE PROTECTION AND FIRE ALARM PERMITTING REQUIREMENTS

1. FIRE PROTECTION
   - A. THE FIRE PROTECTION INSTALLER SHALL BE LICENSED AND CERTIFIED FIRE PROTECTION SYSTEM CONTRACTOR FOR THE INSTALLATION OF THESE SYSTEMS.
   - B. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE SIGNED/SEALED FULL SHOP DRAWINGS, INCLUDING HYDRAULIC CALCULATIONS, THAT ACCURATELY DEPICT THE REQUIRED SYSTEMS DESIGN.
   - C. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SIGNED/SEALED DOCUMENTS AND RELATED PERMIT REQUIRED BY THE LOCAL PERMITTING OFFICE.
2. FIRE ALARM
   - A. THE FIRE ALARM INSTALLER SHALL BE LICENSED AND CERTIFIED FIRE ALARM SYSTEM CONTRACTOR FOR THE INSTALLATION OF THESE SYSTEMS.
   - B. THE FIRE ALARM CONTRACTOR SHALL PROVIDE SIGNED/SEALED FULL SHOP DRAWINGS THAT ACCURATELY DEPICT THE REQUIRED SYSTEMS DESIGN.
   - C. THE FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SIGNED/SEALED DOCUMENTS AND RELATED PERMIT REQUIRED BY THE LOCAL PERMITTING OFFICE.

FIRE PROTECTION CONTRACTOR RESPONSIBILITIES

32.003(1)
THE FIRE SPRINKLER CONTRACTOR SHALL PREPARE DETAILED WORKING PLANS IN ACCORDANCE WITH NFPA 13. THE FIRE PROTECTION SYSTEM LAYOUT SHALL FOLLOW THE DESIGN GUIDELINES SET FORTH IN THESE FIRE PROTECTION SYSTEM ENGINEERING DOCUMENTS.

32.003(2)
THE ACCEPTANCE TESTING OF THE FIRE PROTECTION SYSTEMS AND COMPONENTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN NFPA 13, 2019 EDITION. THE APPROPRIATE CONTRACTOR'S MATERIAL AND TEST CERTIFICATES SHALL BE COMPLETED AND SIGNED.

- ALL UNDERGROUND PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT GAUGE PRESSURE OF 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT GAUGE PRESSURE OF +/- 5 PSI FOR 2 HOURS IN ACCORDANCE WITH NFPA 24: 10.10.2.2.1.
- ALL ABOVEGROUND PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURES SHALL BE HYDROSTATICALLY TESTED AT 200 PSI AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS IN ACCORDANCE WITH NFPA 13: 28.2.1.1.
- ALL NEW STANDPIPE SYSTEMS, INCLUDING YARD PIPING AND FIRE DEPARTMENT CONNECTION PIPING, SHALL BE TESTED HYDROSTATICALLY AT NOT LESS THAN 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE. WHICHEVER IS GREATER FOR 2 HOURS IN ACCORDANCE WITH NFPA 14:11.4.1.

32.003(3)
THE FIRE PROTECTION SYSTEM FOR THIS PROJECT MAY CONTRIBUTE 3 POUNDS PER SQUARE FOOT TO THE DEAD LOAD AND UP TO 4 POUNDS PER SQUARE FOOT FOR THE LIVE LOAD OF THIS BUILDING'S STRUCTURAL SUPPORT SYSTEM. IT IS THE CONTENTION OF THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM THAT THE BUILDING WILL ADEQUATELY SUPPORT THE FIRE PROTECTION SYSTEM. THIS IS TO BE CONFIRMED WITH THE STRUCTURAL ENGINEER.

DESIGN OVERVIEW

POINT OF SERVICE
REFER TO PROJECT CIVIL DRAWINGS FOR THE POINT OF SERVICE.

APPLICABLE NFPA STANDARDS
REFER TO THE APPLICABLE CODES & STANDARDS SECTION ON THIS SHEET FOR APPLICABLE NFPA STANDARDS.

CLASSIFICATION OF HAZARDS
REFER TO THE DESIGN NOTES AND DESIGN CRITERIA SECTIONS ON THIS SHEET FOR APPLICABLE CLASSIFICATIONS OF HAZARD OCCUPANCIES.

DESIGN APPROACH
THE SPRINKLER SYSTEM SHALL BE WET PIPE WITH SPRINKLERS. SPRINKLER HEAD SPACING SHALL BE PER MANUFACTURER LISTING. REFER TO DESIGN NOTES AND DESIGN CRITERIA SECTION ON THIS SHEET FOR HEAD TEMPERATURE RATING.

WATER SUPPLY
THIS BUILDING WILL HAVE A NEW 8" FIRE MAIN DIRECTLY CONNECTED TO THE EXISTING 10" UTILITY WATER MAIN.

FLOW TEST
SEE SITE PLAN FOR FLOW TEST. THE FIRE SPRINKLER CONTRACTOR SHALL OBTAIN A FLOW TEST WITHIN 6 MONTHS OF THE FIRE SPRINKLER SUBMITTAL.

VALVING AND ALARM
ALL CONTROL VALVES ON SPRINKLER RISERS & FIRE PROTECTION BACKFLOW PREVENTERS SHALL HAVE A TAMPER SWITCH. THE FLOW SWITCH SHALL BE SET TO NOT ALARM WITH MINOR CITY WATER PRESSURE FLUCTUATIONS. HOWEVER, THE FLOW OF ONE SPRINKLER HEAD SHALL PRODUCE AN ALARM CONDITION BY TRIPPING THE FLOW SWITCH. ALL FLOW & TAMPER SWITCHES SHALL BE CONNECTED TO THE BUILDING FIRE ALARM PANEL. FLOW SWITCHES SHALL ALSO SOUND THE ELECTRIC ALARM BELL ON THE OUTSIDE WALL. FIRE SPRINKLER CONTRACTOR SHALL VERIFY & TEST PER NFPA 13.

CORROSION
THE LOCAL WATER PURVEYOR IS REQUESTED TO ADVISE THE ENGINEER OF RECORD IF CONDITIONS EXIST IN THEIR WATER SUPPLY THAT COULD LEAD TO MIC, SO THAT THE ENGINEER CAN DESIGN CORRECTIVE MEASURES. THERE ARE NO KNOWN MIC CONDITIONS IN THE PUBLIC UTILITY'S WATER SYSTEMS.

BACKFLOW PREVENTION
SEE CIVIL DRAWINGS FOR BACKFLOW AND METER. BACKFLOW PREVENTER AND METERING SPECIFICATIONS SHALL MEET OR EXCEED REQUIREMENTS OF THE PUBLIC UTILITY.

INTERIOR FIRE PROTECTION COMPONENTS
INTERIOR FIRE PROTECTION COMPONENTS- PRODUCT DATA SHEETS SHALL BE SUBMITTED BY THE SPRINKLER CONTRACTOR ALONG WITH THEIR SHOP DRAWINGS. ALL FIRE PROTECTION DEVICES AND COMPONENTS SHALL BE UL LISTED AND FM APPROVED.

FIRE PUMP
A FIRE PUMP IS NOT REQUIRED BASED UPON THE MOST CURRENT WATER FLOW TEST INFORMATION.

STORAGE TANK
A FIRE WATER STORAGE TANK IS NOT REQUIRED BASED UPON WATER SUPPLY INFORMATION, BUILDING HEIGHT AND HAZARD CLASSIFICATION.

OWNER'S CERTIFICATE
THIS IS NOT A STORAGE OCCUPANCY AND AN OWNER'S CERTIFICATE IS NOT REQUIRED.

TRADE CONTRACTOR RESPONSIBILITIES

1. ALL REFERENCES TO "CONTRACTOR" SHALL MEAN THE SUB-CONTRACTOR PERFORMING THE SPECIFIC WORK STATED BELOW:
   - A. HVAC - SHALL BE RESPONSIBLE FOR ALL MECHANICAL WORK.
   - B. ELECTRICAL - SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK.
   - C. PLUMBING - SHALL BE RESPONSIBLE FOR ALL PLUMBING WORK.
   - D. FIRE ALARM - SHALL BE RESPONSIBLE FOR ALL FIRE ALARM WORK.
   - E. FIRE SPRINKLER - SHALL BE RESPONSIBLE FOR ALL FIRE PROTECTION WORK, TO INCLUDE PROVIDING FINAL SIGNED/SEALED HYDRAULIC CALCULATIONS AND SIGNED/SEALED FULL SHOP DRAWINGS.

APPLICABLE CODES & STANDARDS

- 2021 INTERNATIONAL BUILDING CODE WITH LOUISIANA AMENDMENTS
- NFPA 13, 2016 EDITION - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS WITH LOCAL AMENDMENTS
- NFPA 24, 2016 EDITION - STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES WITH LOCAL AMENDMENTS

DESIGN NOTES

1. FIRE PROTECTION SYSTEM TO COMPLY WITH THE LATEST EDITION OF ALL APPLICABLE STATE, LOCAL CODES & AHJ REQUIREMENTS. ALSO SHALL OBTAIN ALL PERMITS, LICENSES AND ALL GOVERNMENTAL/MILITARY REQUIREMENTS.
2. FINAL INSPECTION AND APPROVAL BY LOCAL FIRE DEPARTMENT, BLDG. DEPT. AND ARCHITECT/ENGINEER.
3. VISIT THE SITE TO CHECK AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING TO INSURE THE COORDINATION OF THE FIRE SERVICES WITH EXISTING CONDITIONS.
4. CUTTING OF STRUCTURAL AND/OR ARCHITECTURAL MEMBERS SHALL NOT BE DONE.
5. FITTINGS REQUIRED FOR PROPER INSTALLATION, COORDINATION WITH OTHER EXISTING TRADES, AND/OR TO MAINTAIN PROPER CLEARANCES SHALL BE PROVIDED. VERIFY STRUCTURAL, MECHANICAL, ELECTRICAL INSTALLATIONS AND AVOID ANY/ALL OBSTRUCTIONS OR INTERFERENCES WITH FIRE PROTECTION PIPE ROUTING.
6. CONTRACTOR SHALL MAKE A FIELD VISIT TO VERIFY ARCHITECTURAL REFLECTED CEILING CONDITIONS AND ELECTRICAL LIGHTING, CEILING CONFIGURATIONS AND HEIGHTS.
7. FIRE STOP ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS, FLOORS, ROOFS, ETC., FLASH AND COUNTERFLASH ROOF PENETRATIONS. (SEE FIRE RATED PIPE PENETRATION DETAILS ON ARCHITECTURAL SHEETS).
8. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
9. SPRINKLER HEADS ARE TO BE COORDINATED WITH ALL LOCATIONS OF DIFFUSERS, SPEAKERS, LIGHTING FIXTURES, CEILING SYSTEMS AND STRUCTURAL SYSTEM.
10. INDICATE CENTER TO CENTER DIMENSIONS AND/OR PIPE CUT LENGTHS AND NOMINAL PIPE DIAMETERS ON ALL PIPING. INDICATE PIPE TYPE, SCHEDULE OF WALL THICKNESS AND METHOD OF JOINING ON SHOP DRAWING.
11. PROVIDE STOCK OF EXTRA SPRINKLERS IN ACCORDANCE WITH NFPA 13.
12. PROVIDE DETAIL AND INDICATE TYPE OF HANGERS TO BE INSTALLED FOR SPRINKLER PIPING. METHODS OF HANGING PIPES, HEADERS AND BRANCHES SHALL BE IN ACCORDANCE WITH NFPA 13. ALL HANGERS ON 4" PIPE AND LARGER SHALL BE CLEVIS-TYPE HANGERS. HANGERS SHALL NOT INTERFERE WITH ANY OTHER TRADE. POWDER DRIVEN STUDS SHALL NOT BE USED.
13. ALL GROOVED & SCREWED FITTING SHALL BE UL/FM APPROVED PRIOR TO ANY INSTALLATION BY ENGINEER WHO RESERVES THE RIGHT TO DISAPPROVE ANY FITTING. ALL SCREWED PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE IN ACCORDANCE WITH SPECIFICATIONS ASTM A120 AND SHALL BE JOINED BY SCREWED JOINTS IN ACCORDANCE WITH SPECIFICATION ANSI B2.1. ALL GROOVED PIPING 2-1/2" OR LARGER SHALL BE SCHEDULE 10 BLACK STEEL.
14. WELD-O-LETS SHALL BE TWO SIZES SMALLER THAN CROSSMAIN. ALL SPRINKLER PIPING & FITTINGS SHALL BE INSTALLED ABSOLUTELY RUST-FREE.
15. AUTOMATIC SPRINKLER TEMPERATURE RATINGS OF FUSIBLE ELEMENTS TO BE IN ACCORDANCE WITH NFPA 13. ALL SPRINKLERS SHALL HAVE CORROSIVE RESISTANT COATING WHERE EXPOSED TO ELEMENTS.
16. SPRINKLERS SHALL COVER THE ENTIRE AREA OF ALL STRUCTURAL MEMBERS. THE SPRAY PATTERN ON ANY SPRINKLER SHALL NOT BE BLOCKED BY WALL, PARTITIONS OR STRUCTURAL COMPONENTS.
17. IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND BETWEEN THESE PLANS, OTHER ENGINEERING PLANS, THE ARCHITECTURAL PLANS AND/OR FIELD CONDITIONS PRIOR TO FINAL BID PRICE OR FINAL PERMITTING.
18. IN CASE OF DISPUTE OR DOUBT AS TO INTENT OF DRAWINGS OR SPECIFICATIONS, OBTAIN ARCHITECT/ENGINEER'S WRITTEN DECISION BEFORE PROCEEDING WITH BID OR WORK INVOLVED.
19. BEFORE SUBMITTING PROPOSAL OR BID, EXAMINE ALL DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT, THE AMOUNT OF SPACE AVAILABLE FOR PIPING, EQUIPMENT AND CONNECTING SERVICES, THE SCOPE OF SITE OF THE WORK, THE REQUIREMENTS TO CORRELATE THE FIRE PROTECTION WORK WITH THAT OF OTHER TRADES AND THE TIME SCHEDULE NECESSARY TO PERFORM THAT WORK.
20. PIPE SHALL BE REAMED AND CLEANED BEFORE ASSEMBLY, AND AFTER ASSEMBLY THE ENTIRE PIPING SYSTEM SHALL BE FLUSHED CLEAN.
21. ADJUST NEW SPRINKLER PIPING AND SPRINKLER HEAD PLACEMENT TO ACCOMMODATE EXISTING CEILING HEIGHTS AND STRUCTURAL CONFIGURATIONS.
22. PROVIDE SYSTEM(S) WITH FLUSHING CONNECTION(S).
23. PROVIDE SPRINKLERS ABOVE AND BELOW EXPOSED DUCTWORK 4 FEET OR WIDER.
24. PROVIDE HAZARD COVERAGE FOR THE FUNCTIONS FOR EACH AREA.
25. INDICATE THE LOCATION AND SIZE OF BLIND SPACES AND CLOSETS.
26. INDICATE THE TOTAL SQUARE FOOT AREA PROTECTED BY SYSTEM(S) ON EACH FLOOR(S).
27. PROVIDE HEAD GUARDS ON SPRINKLER HEADS IN ELECTRIC, TELEPHONE, AND MECHANICAL ROOMS.
28. ALL PENDENT SPRINKLERS SHALL BE CENTER OF TILE, UNLESS MAXIMUM DISTANCES FROM WALLS OR BETWEEN HEADS IS EXCEEDED. IF NOT POSSIBLE ALL SPRINKLER HEADS MOUNTED IN CEILING SHALL BE LOCATED A MINIMUM OF 4" AWAY FROM ANY WALLS. CEILING GRID MEMBERS, CEILING HEIGHT CHANGES OR ANY OTHER VERTICAL INTERSECTING STRUCTURAL SURFACE.
29. FIRE PROTECTION CONTRACTOR SHALL ASSIST IN PREPARATION OF COORDINATION DRAWINGS FOR ALL LEVELS WHICH INDICATE ALL THE ENGINEERING DISCIPLINES & FIRE PROTECTION PIPING. THESE DRAWINGS SHALL BE PREPARED & APPROVED BY THE ENGINEER PRIOR TO ANY INSTALLATION.
30. FIRE SPRINKLER PIPING SHALL NOT TRAVEL OVER THE TOPS OF ELECTRICAL PANELBOARDS.
31. PROVIDE TEFLON COATING FOR ALL SPRINKLERS IN MECHANICAL, KITCHEN AREAS, EXTERIOR AREAS AND ANY CORROSIVE AREAS.
32. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING HEIGHTS IN EACH AREA.
33. ALL MATERIALS, WHERE APPLICABLE, SHALL BE UL LISTED AND FACTORY MUTUAL APPROVED FOR USE IN AUTOMATIC SPRINKLER SYSTEMS. ALL NEW PIPING SHALL BE HYDROSTATICALLY TESTED FOR TWO HOURS IN ACCORDANCE WITH NFPA 13. MINIMUM HYDROSTATIC TEST PRESSURE SHALL BE 200 PSI.
34. WET SYSTEM PIPING SHALL BE INSTALLED LEVEL TO DRAIN BACK TO THE SYSTEM RISER. IN ACCORDANCE WITH NFPA 13. TRAPPED SECTIONS OF PIPING SHALL HAVE AUXILIARY DRAIN CONNECTIONS IN ACCORDANCE WITH NFPA 13.
35. WET PIPE SPRINKLER SYSTEM DESIGNED PER NFPA 13.
36. PIPE TO HANG TIGHT TO BOTTOM OF DECK WHERE POSSIBLE. IN ALL OTHER AREAS, PIPE TO HANG AS HIGH AS POSSIBLE.
37. THE CONSTRUCTION MANAGER SHALL PROVIDE, OR HAVE PROVIDED, A SET OF COORDINATION PLANS. FOR ALL SYSTEMS & FEATURES THAT OCCUR ABOVE THE CEILING PLANE. THE COORDINATION PLANS. SHALL INCLUDE, BUT NOT BE LIMITED TO, STRUCTURAL MEMBERS, HVAC DUCTWORK, HYDRONIC PIPING, PLUMBING SUPPLY & WASTE PIPING, FIRE PROTECTION PIPING, ELECTRICAL POWER CONDUITS & RACEWAYS & ELECTRICAL LOW VOLTAGE CONDUITS & RACEWAYS. THE COORDINATION PLANS. SHALL PROVIDE, APPORTION & COORDINATE SPACE FOR ALL SYSTEMS, HORIZONTALLY & VERTICALLY ABOVE THE CEILING PLANE TO THE STRUCTURAL DECK ABOVE ALLOWING EACH TRADE CONTRACTOR THE SPACE TO PROPERLY EXECUTE HIS PORTION OF THE WORK.
38. ALL GROOVED FITTINGS TO BE "VICTAULIC" FITTINGS OR APPROVED EQUAL.
39. ALL DIMENSIONS TO BE VERIFIED DURING FIELD CHECK OF SPRINKLER SYSTEM.
40. ALL FIRE SPRINKLER COMPONENTS ARE TO BE RATED FOR THE MAXIMUM SYSTEM WORKING PRESSURE TO WHICH THEY ARE EXPOSED IN ACCORDANCE WITH NFPA 13.
41. ALL PENDENT TYPE FIRE SPRINKLERS IN PUBLIC AREAS SHALL BE CENTERED IN CEILING TILES.
42. IN-BUILDING RISER BY AMES SHALL BE ONE PIECE EXTENDED 90 DEGREE 304 STAINLESS STEEL TUBING OR INTERIOR COATED CEMENT LINED DUCTILE IRON PIPE/FITTINGS FROM 5 FEET BEYOND EXTERIOR WALL OF BUILDING TO 12 INCHES ABOVE FINISH FLOOR.
43. DESIGN CRITERIA FOR THE SPRINKLER SYSTEM SHALL BE AS FOLLOWS (REFER TO DESIGN CRITERIA TABLE, THIS SHEET):
   - A. LIGHT HAZARD:
     - THESE TYPE OF SPACES SHALL BE PROTECTED BY QUICK RESPONSE/STANDARD SPRAY FULLY CONCEALED (FCM) OR SEMI-RECESSED (BOH) SPRINKLERS WITH A TEMPERATURE RATING OF 155°F AND THE MAXIMUM SPACING SHALL BE 225 FT² PER HEAD EQUAL TO VIKING VK302.
   - B. ORDINARY HAZARD I:
     - THESE TYPE OF SPACES WILL BE PROTECTED BY QUICK RESPONSE/STANDARD SPRAY (UPRIGHT SPRINKLERS WITH A TEMPERATURE RATING OF 200°F AND THE MAXIMUM SPACING SHALL BE 130 FT² PER HEAD EQUAL TO VIKING VK300.
   - C. ORDINARY HAZARD II:
     - THESE TYPE OF SPACES WILL BE PROTECTED BY QUICK RESPONSE/STANDARD SPRAY (UPRIGHT SPRINKLERS WITH A TEMPERATURE RATING OF 200°F AND THE MAXIMUM SPACING SHALL BE 130 FT² PER HEAD EQUAL TO VIKING VK350.

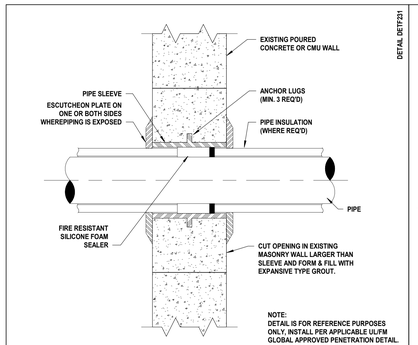
DESIGN CRITERIA

NOMINAL PIPE SIZE	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	6"
STEEL PIPE	-	12'-0"	12'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
CPVC PIPE	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"	10'-0"	-	-

DESIGN CRITERIA

SYMBOL	DENSITY GPM / SF	MAX AREA / SPRINKLER (SF)	DESIGN AREA (SF)	HOSE DEMAND (SF)	DURATION (MIN)	MAX STORAGE HEIGHT
LH	0.10	225	1500	100	30	8'-0"
OH-1	0.15	130	1500	250	60-90	12'-0"
OH-2	0.20	130	1500	250	60-90	12-0"

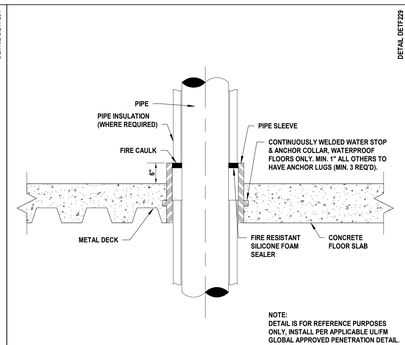
NOTES:
1. MAX AREA/SPRINKLER BASED ON:
   - A. LH - NFPA 13: TABLE 10.2.4.2(a)
   - B. OH - NFPA 13: TABLE 10.2.4.2(b)
2. DENSITY & DESIGN AREA LH, OH, & EH) BASED ON:
   - A. LH -MV NFPA 13: FIGURE 19.3.3.1.1
   - B. OH - NFPA 13: FIGURE 19.3.3.1.1
3. HOSE DEMAND & DURATION BASED ON:
   - A. LH - NFPA 13: TABLE 19.3.3.1.2
   - B. OH - NFPA 13: TABLE 19.3.3.1.2



DETAIL DETF231

PIPE SLEEVE THROUGH INTERIOR WALL

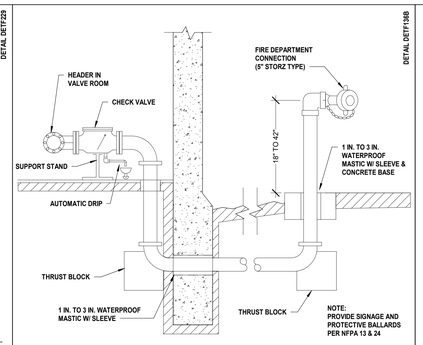
NTS



DETAIL DETF329

PIPE SLEEVE THROUGH FLOOR

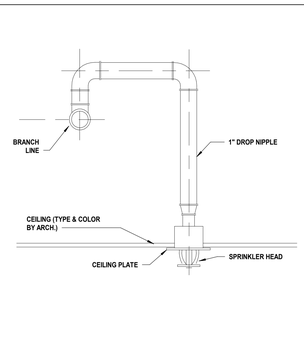
NTS



DETAIL DETF136B

REMOTE FIRE DEPARTMENT CONNECTION

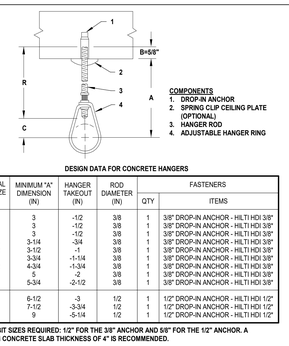
NTS



DETAIL DETF220

TYPICAL SPRINKLER HEAD

NTS



DESIGN DATA FOR CONCRETE HANGERS

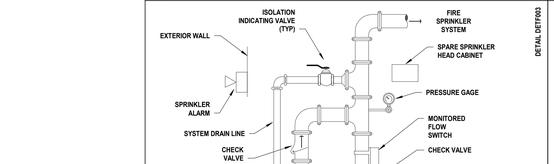
NOMINAL PIPE SIZE (IN)	MINIMUM "A" DIMENSION (IN)	HANGER TAKEOUT (IN)	ROD DIAMETER (IN)	FASTENERS	
				QTY	ITEMS
1/2	3	-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
3/4	3	-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
1	3	-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
1-1/4	3-1/4	-3/4	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
1-1/2	3-1/2	-1	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
2	3-3/4	-1-1/4	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
2-1/2	4-3/4	-1-3/4	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
3	5	-2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
4	5-3/4	-2-1/2	3/8	1	3/8" DROP-IN ANCHOR - HILTI HDI 3/8"
5	6-1/2	-3	1/2	1	1/2" DROP-IN ANCHOR - HILTI HDI 1/2"
6	7-1/2	-3-3/4	1/2	1	1/2" DROP-IN ANCHOR - HILTI HDI 1/2"
8	9	-5-1/4	1/2	1	1/2" DROP-IN ANCHOR - HILTI HDI 1/2"

* DRILL BIT SIZES REQUIRED: 1/2" FOR THE 3/8" ANCHOR AND 5/8" FOR THE 1/2" ANCHOR. A MINIMUM CONCRETE SLAB THICKNESS OF 4" IS RECOMMENDED.

DETAIL DETF005

CONCRETE PIPE HANGER

NTS

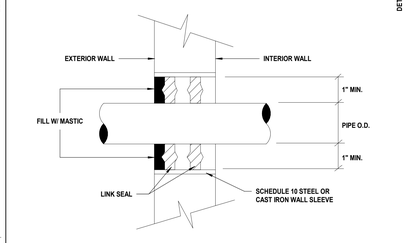


NOTES:
1. DETAIL BASED ON NFPA 13 - AUTOMATIC SPRINKLER SYSTEMS HANDBOOK (14TH EDITION): EXHIBIT 16.22.
2. TYPICAL DETAIL, ACTUAL INSTALL CONDITIONS MAY DIFFER BUT ALL COMPONENTS SHOWN IN DETAIL ARE REQUIRED.

DETAIL DETF003

NFPA 13 RISER DETAIL

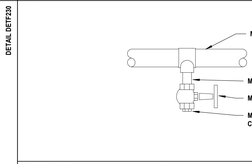
NTS



DETAIL DETF330

PIPE SLEEVE THROUGH EXTERIOR WALL

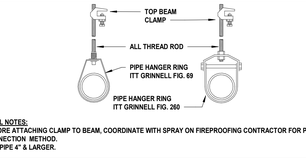
NTS



DETAIL DETF099

WET PIPE AUXILIARY DRAIN

NTS

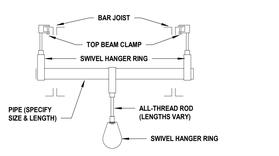


GENERAL NOTES:
1. BEFORE ATTACHING CLAMP TO BEAM, COORDINATE WITH SPRAY ON FIREPROOFING CONTRACTOR FOR PROPER CONNECTION METHOD.
2. FOR PIPE 4" & LARGER.

DETAIL DETF093

TOP BEAM CLAMP PIPE HANGER

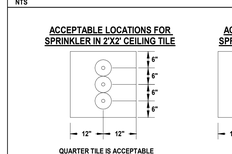
NTS

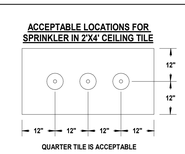


DETAIL DETF004

TRAPEZE HANGER

NTS




ACCEPTABLE LOCATIONS FOR SPRINKLER IN 2'X4' CEILING TILE
12"
12"
12"
12"
12"
QUARTER T

GENERAL NOTES

1. THE UNDERGROUND UTILITIES ARE UNDER THE PURVIEW AND RESPONSIBILITY OF THE CIVIL ENGINEER AND ARE SHOWN HERE FOR REFERENCE PURPOSES ONLY.

REFERENCE NOTES

1. PROPOSED 8" FIREMAIN CONNECTION, TAPPED FROM EXISTING 10" UTILITY MAIN.
2. PROPOSED 8" DDCB BFP BY CIVIL.
3. PROPOSED FIRE HYDRANT BY CIVIL.
4. POINT OF SERVICE.
5. 8" PROPOSED FIREMAIN ROUTED BELOW GRADE TO FIRE RISER BY CIVIL. 8" REDUCED TO 4" PRIOR TO BUILDNG ENTRY BY CIVIL. SEE F2.10 FOR CONTINUATION.
6. 4" PROPOSED FDC MAIN ROUTED BELOW GRADE TO REMOTE FDC BY CIVIL. SEE SHEET F0.01 FOR DETAIL AND SHEET F2.10 FOR CONTINUATION.
7. PROPOSED REMOTE FDC BY CIVIL.
8. BUILDING "B" DOES NOT REQUIRE SPRINKLER PROTECTION.

FLOW TEST REPORT

LOCATION 14234 Airline Hwy Date: 10/21/2024

TEST MADE BY F Demars TIME: 7:30am

REPRESENTATIVE OF Baton Rouge Water Co.

WITNESS

PURPOSE OF TEST determing GPM for Brassco

CONSUMPTION RATE DURING TEST

IF PUMPS AFFECT TEST, INDICATE PUMPS OPERATING

FIRE HYDRANTS:

	A1	A2	A3	
COEFFICIENT	0.83	0.90	0.90	
SIZE NOZZLE	4.5			
PITOT READING	24			TOTAL GPM
GPM	2460			2460

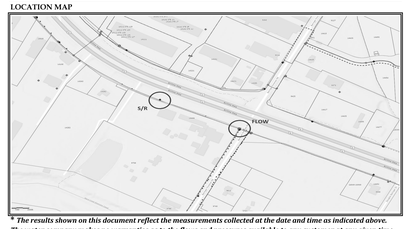
STATIC B 74 psi RESIDUAL B 66 psi

PROJECTED RESULTS: @ 20 psi Residual

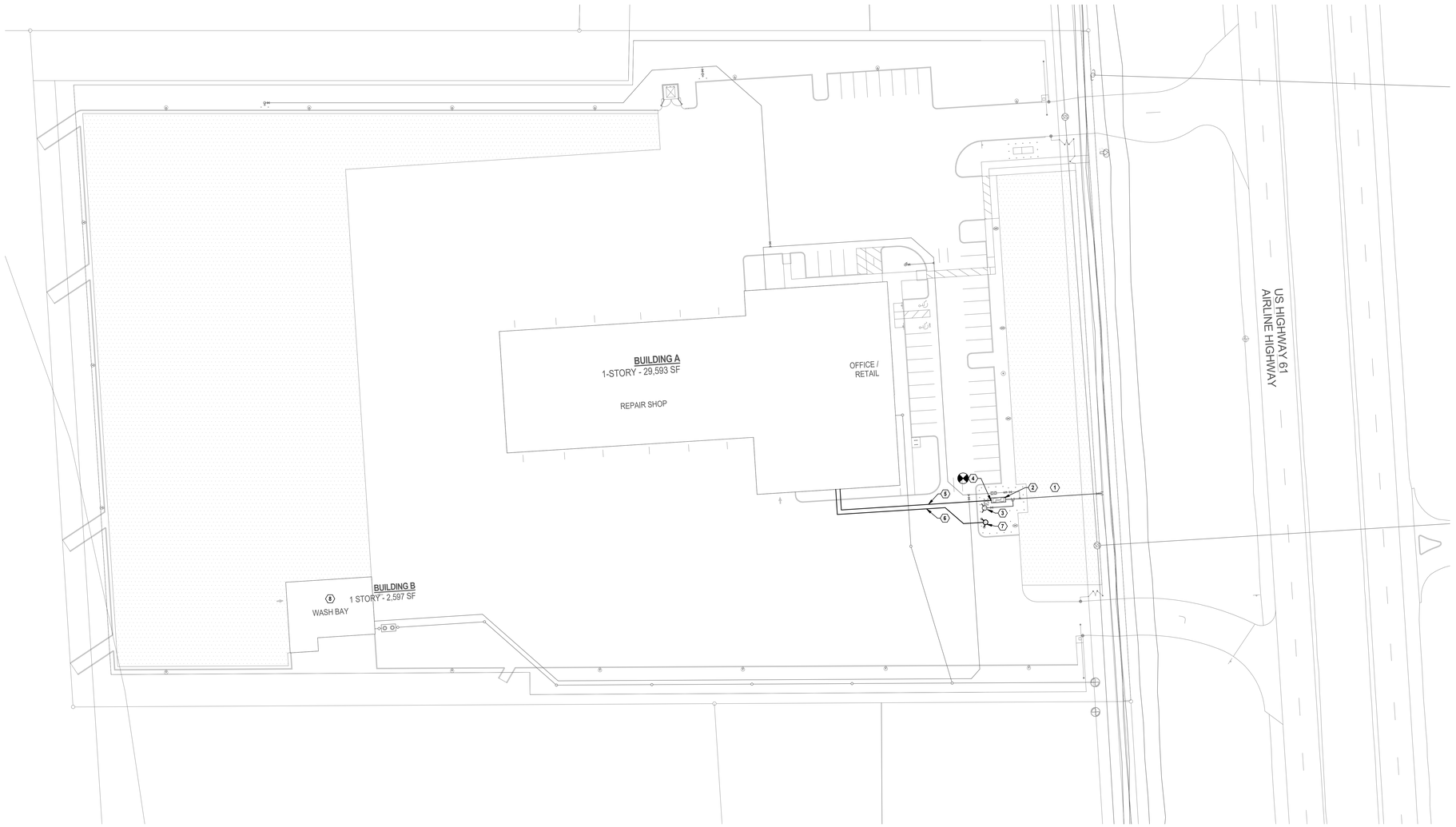
2460 (8.62 / 3.07) = 6899 GPM @ 20 psi

Pressure Coefficients

LOCATION MAP



The results shown on this document reflect the measurements collected at the date and time as indicated above. The water company makes no warranties as to the flows and pressures available to any customer at any given time. Available flows and pressures will vary significantly from those reported above depending on changing systemic demands and conditions.



1 SITE PLAN - FIRE PROTECTION
F0.10 1" = 30'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

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M.E.P. & F.P. Engineers

C## 5276 I24249.00

INGENUITY ENGINEERS, INC.
"INNOVATIVE ENGINEERING SOLUTIONS"
6275 HAZELTINE NATIONAL DR, ORLANDO, FLORIDA | 407.388.0307

General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

SITE PLAN - FIRE PROTECTON

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: RDS
Checked By: BSH
Project No:

Drawing No.

F0.10

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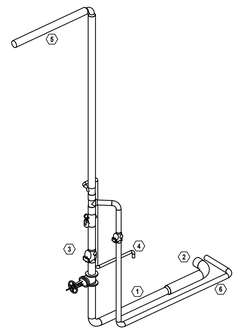
GENERAL NOTES

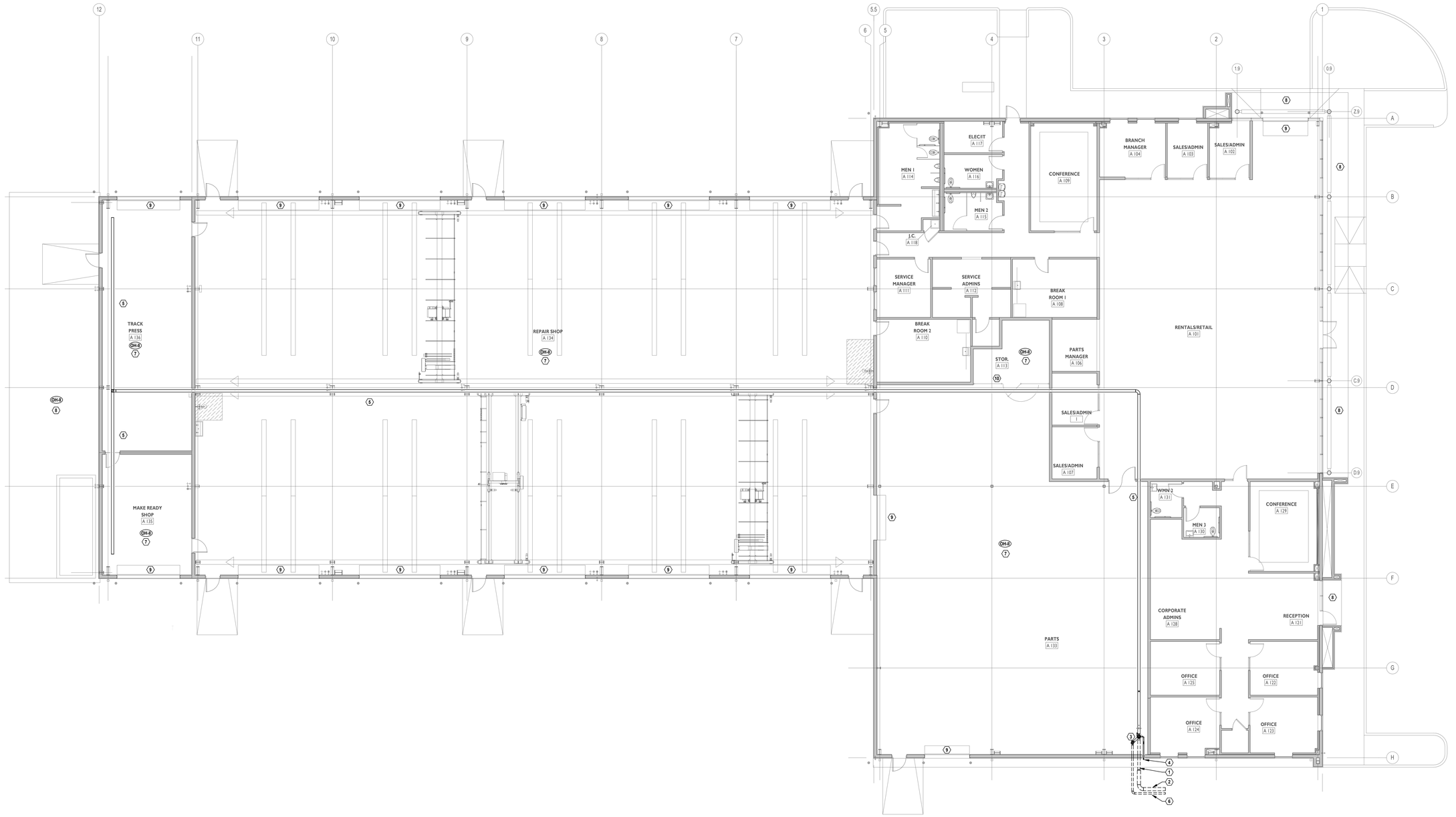
1. ALL LINE SIZES ARE TO BE BASED ON FINAL HYDRAULIC CALCULATIONS.
2. ALL AREAS TO BE CONSIDERED NFPA 13 LIGHT HAZARD OCCUPANCY UNLESS NOTED OTHERWISE.
3. SPRINKLERS ARE NOT REQUIRED UNDER EXTERIOR PROJECTIONS SUCH AS CANOPIES IN ACCORDANCE WITH NFPA 13: 8.15.7.
4. SPRINKLERS ARE NOT REQUIRED IN CEILING CAVITIES ABOVE SUSPENDED CEILINGS IN ACCORDANCE WITH NFPA 13: 8.15.1.2.
5. ROOF SLOPE IS 1/2" PER 1'-0". DESIGN AREA SHALL NOT BE INCREASED 30% IN ACCORDANCE WITH NFPA 13: 11.2.3.2.4.
6. OWNER SHALL ENSURE THAT THE AMBIENT TEMPERATURE REMAINS ABOVE 40°F IN ACCORDANCE WITH NFPA 13: 8.16.4.
7. BUILDING THERMAL ENVELOPE IS LOCATED AT THE UNDERSIDE OF ROOF DECK.

REFERENCE NOTES

1. PROPOSED 6" FIREMAIN BELOW GRADE UP INTO BUILDING BY CIVIL. CIVIL TO TRANSITION FROM 8" TO 4" PRIOR TO BUILDING ENTRY.
2. PROPOSED 8" FIREMAIN BELOW GRADE TO BUILDING. SEE SHEET F0.10 FOR CONTINUATION.
3. 6" NFPA FIRE RISER. SEE SHEET F0.01 FOR DETAIL.
4. 2" RISER DRAIN ROUTED DOWN AND TO EXTERIOR, TERMINATE 12" AFG.
5. 6" CROSSMAIN ROUTED BELOW ROOF STRUCTURE THROUGH BUILDING.
6. 4" FDC MAIN ROUTED DOWN THROUGH FLOOR AND ROUTED BELOW GRADE TO REMOTE FDC. SEE SHEET F0.10 FOR CONTINUATION.
7. OH-II SPRINKLERS IN THIS AREA SHALL BE INTERMEDIATE TEMPERATURE HEADS.
8. CANOPY SHALL BE SPRINKLERED WITH TYCO MODEL TYS339 200 °F DRY BARREL SPRINKLER HEADS BASED ON 0.20 GPM/SF, 1720 SF, AND MINIMUM 344 GPM.
9. OVERHEAD ROLL-UP DOOR REEL ASSEMBLIES DO NOT REQUIRE SIDEWALL SPRINKLER WHEN IN THE UP POSITION.
10. CHAIN LENGTH FENCE SEPARATING STORAGE AND PARTS DEPARTMENT SHALL NOT BE CONSIDERED A WALL.



2 FIRE RISER ISOMETRIC
F2.10



1 BUILDING A FLOOR PLAN - FIRE PROTECTION
F2.10 1/8" = 1'-0"

ISSUED FOR PERMIT

General Notes:

General Notes:

No.	Date	Description
		Submissions & Revisions

Owner

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C## 5276 I24249.00

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General Contractor

Project Location

WPI-BATON ROUGE
XXXX AIRLINE HIGHWAY
BATON ROUGE, LA 70817

Drawing Title

BUILDING A FLOOR PLAN - FIRE PROTECTION

Seal

STATE OF LOUISIANA
BRIAN S. HESSINGER
License No. 37810
PROFESSIONAL ENGINEER
10/03/2025
BRIAN S HESSINGER PE 37810

Date: 10/03/2025
Drawn By: RDS
Checked By: BSH
Project No:

Drawing No.

F2.10

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