DRAWING INDEX

ARCHITECTURAL

G-0 COVER SHEET AND DRAWING INDEX
G-2 ARCHITECTURAL NOTES, SYMBOLS, AND INFORMATION
G-3 CODE SUMMARY AND LIFE SAFETY PLAN

A-1 MAINTENANCE BUILDING PLANS
A-2 MAINTENANCE BUILDING ELEVATIONS AND SECTIONS
A-3 MAINTENANCE BUILDING DETAILS AND INTERIOR ELEVATIONS
A-4 SCHEDULES AND DETAILS - DOOR AND INTERIOR FINISHES

MAINTENANCE BUILDING ACCESSORY STRUCTURES

MECHANICAL

M-113 FIRST FLOOR PLAN, SCHEDULES AND DETAIL - HVAC

ELECTRICAL / LIGHTING / LOW VOLTAGE

E-001 ELECTRICAL SYMBOLS AND GENERAL NOTES
E-112 SITE PLAN - MAINTENANCE BUILDING
E-113 FIRST FLOOR PLAN - ELECTRICAL

DETAILS - ELECTRICAL

PLUMBING

DETAILS, SCHEDULES, AND SYMBOL LIST - PLUMBING
FIRST FLOOR PLAN - PLUMBING

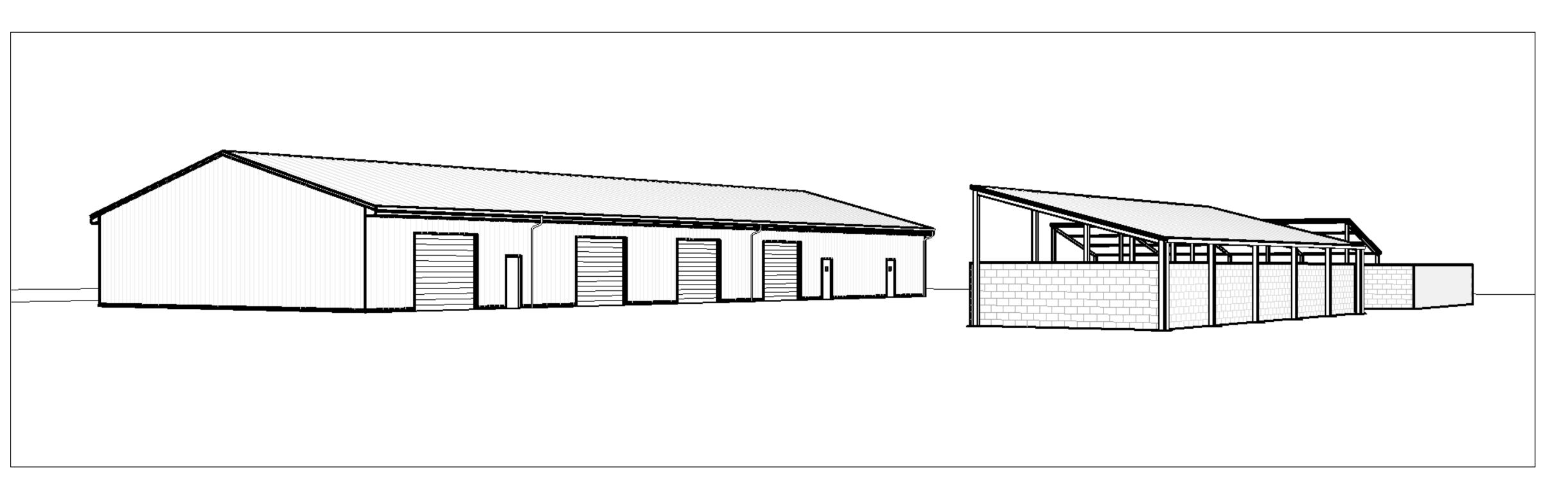
FIRE PROTECTION

FP-002 DETAILS, SCHEDULES, AND SYMBOL LISTS - FIRE PROTECTION FIRST FLOOR PLAN - FIRE PROTECTION

Proposed Maintenace Building for

MONSTER GOLF COURSE

84 CHALET ROAD KIAMESHA LAKE, NY 12751



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PROPERTY OWNER

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RESORTS WORLD CATSKILLS 888 RESORTS WORLD DRIVE MONTICELLO, NY 12701 OWNERS CONSULTANT
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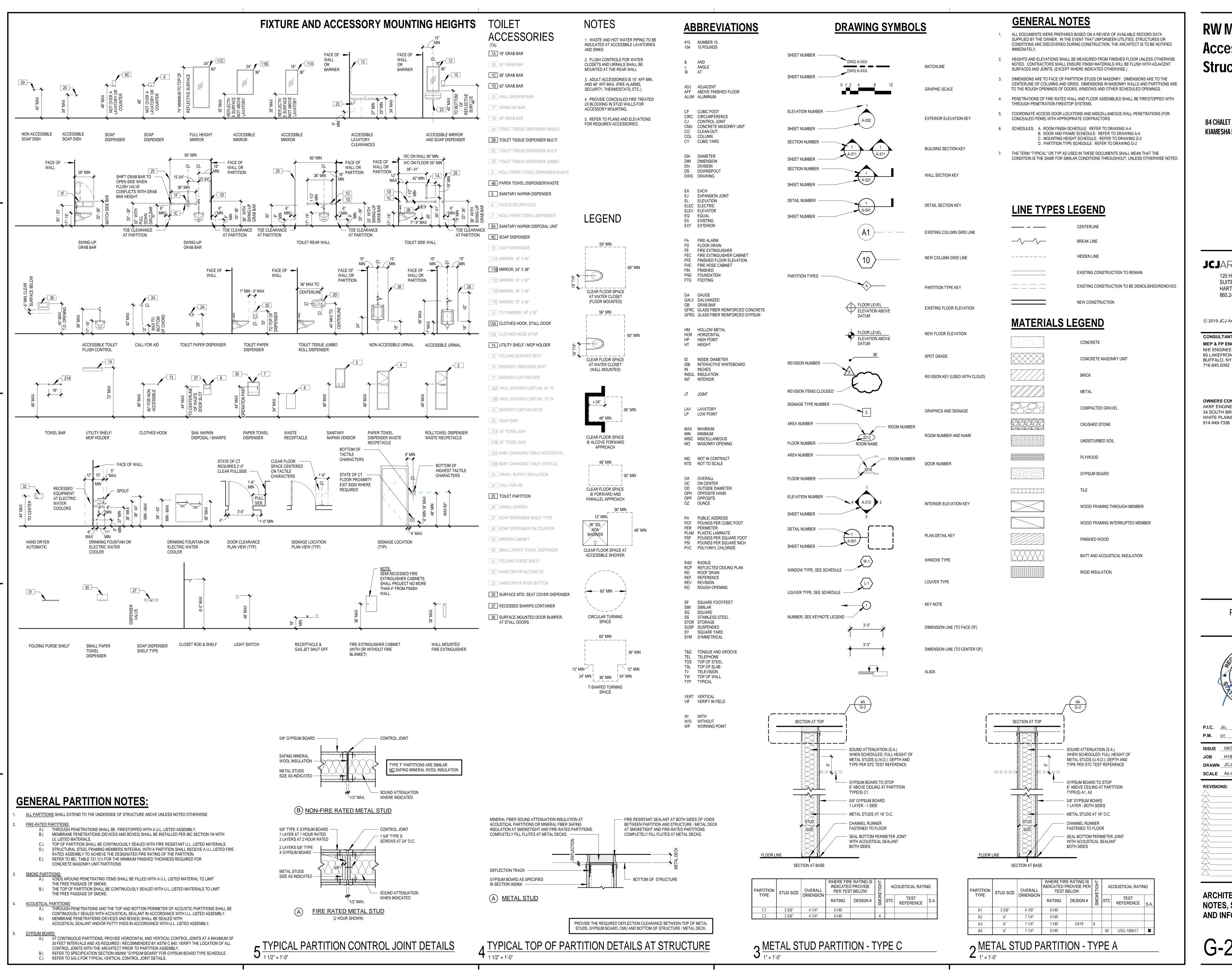


M/E ENGINEERING 60 LAKEFRONT BOULEVARD, BUFFALO, NY 14202 716.845.5092 **ARCHITECTS & INTERIOR DESIGN**

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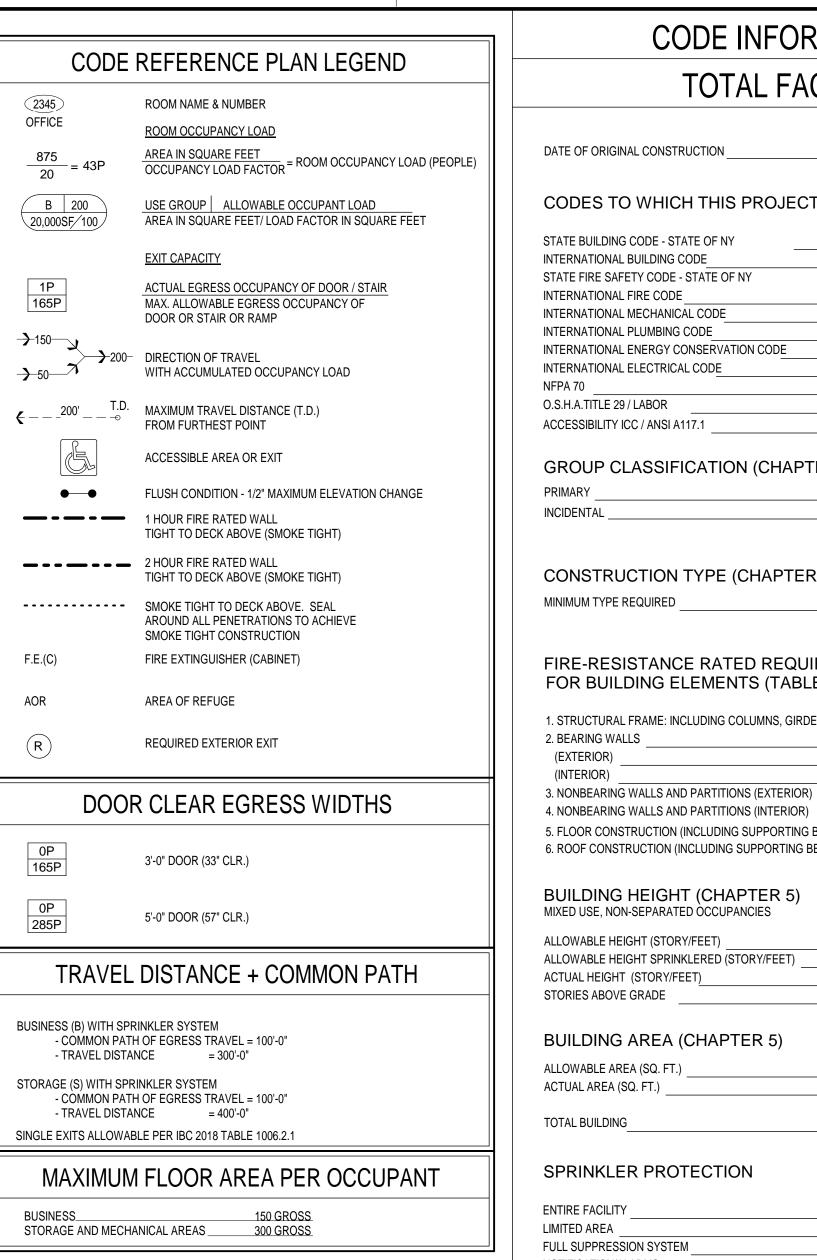
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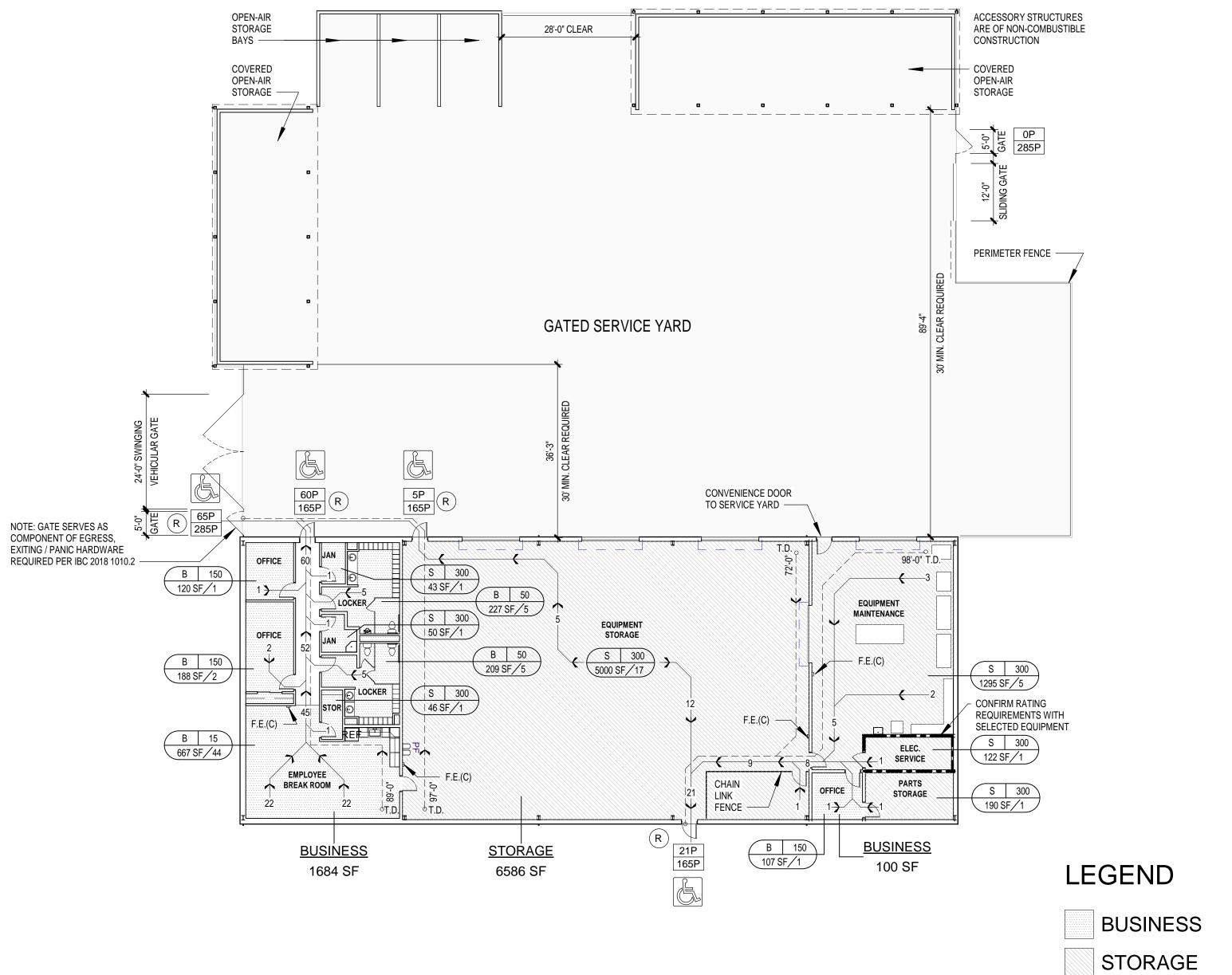


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ARCHITECTURAL NOTES, SYMBOLS, AND INFORMATION

G-2





LIFE SAFETY PLAN - MAINTENANCE BUILDING

1/16" = 1'-0"

CODE INFORMATION

TOTAL EXCILITY

TOTAL FACILITY	
DATE OF ORIGINAL CONSTRUCTION	2021-22 (PROJECT)
CODES TO WHICH THIS PROJECT WAS DESIG	GNED
	DAT
STATE BUILDING CODE - STATE OF NY	2
INTERNATIONAL BUILDING CODE	2
STATE FIRE SAFETY CODE - STATE OF NY	2
INTERNATIONAL FIRE CODE	2
INTERNATIONAL MECHANICAL CODE	2
INTERNATIONAL PLUMBING CODE	2
INTERNATIONAL ENERGY CONSERVATION CODE	2
INTERNATIONAL ELECTRICAL CODE	2
NFPA 70	
O.S.H.A.TITLE 29 / LABOR ACCESSIBILITY ICC / ANSI A117.1	CURRE
GROUP CLASSIFICATION (CHAPTER 3) PRIMARY INCIDENTAL	
CONSTRUCTION TYPE (CHAPTER 6) MINIMUM TYPE REQUIRED	IIB (
FIRE-RESISTANCE RATED REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601) 1. STRUCTURAL FRAME: INCLUDING COLUMNS, GIRDERS, TRUSSES 2. BEARING WALLS	TYPE 0 HR

4. NONBEARING WALLS AND PARTITIONS (INTERIOR) 5. FLOOR CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS) 6. ROOF CONSTRUCTION (INCLUDING SUPPORTING BEAMS AND JOISTS)

(EXTERIOR) (INTERIOR)

MIXED USE, NON-SEPARATED OCCUPANCIES	
ALLOWABLE HEIGHT (STORY/FEET)	2 STORIES/ 55 FE
ALLOWABLE HEIGHT SPRINKLERED (STORY/FEET)	3 STORIES/ 75 FE
ACTUAL HEIGHT (STORY/FEET)	1 STORIES/ 22 FE
STORIES ABOVE GRADE	1 STORI
BUILDING AREA (CHAPTER 5)	
ALLOWABLE AREA (SQ. FT.)	70,000 SQ.

SPRINKLER PROTECTION

LIMITED AREA	
FULL SUPPRESSION SYSTEM	100 %
NOTIFICATION/ALARMS	100 %
DETECTION	100 %

MODIFICATION IBC SECTION ACCESSIBLE BUILDING

OCCUPANT LOAD FIRST FLOOR

EXIT CAPACITY TOTAL FACILITY

SERVICE SINKS

DESIGNATED NON DESIGNATED	
THRESHOLD BUILDING CONDITIONS	
OCCUPANCY LOAD	

OCCUPANT LOAD TOTAL FACILITY EXIT CAPACITY FIRST FLOOR

MINIMUM PLUMBING FIXTURE COUNT (IPC CHAPTER 4) (FOR EACH TYPE OF OCCUPANCY IN EACH SEPARATE BUILDING OR ENTIRE FACILITY)

,	•
STORAGE (S)	REQUIRED PROVIDED
W/C FEMALE	11
W/C MALE	
LAVATORIES	
DRINKING FOUNTAINS	
SERVICE SINKS	11
BUSINESS (B)	REQUIRED PROVIDED
W/C FEMALE	11
W/C MALE	
LAVATORIES	
DRINKING FOUNTAINS	
SERVICE SINKS	
TOTAL FACILITY	REQUIRED PROVIDED
W/C FEMALE	2 2
W/C MALE	
LAVATORIES	
DRINKING FOUNTAINS	2 2

RW Monster Golf Accessory **Structures**

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0 HR (S) 0 HR (S)

TABLE 602

0 HR (S)

0 HR (S)

9,000 SQ. FT

9,000 SQ. FT.

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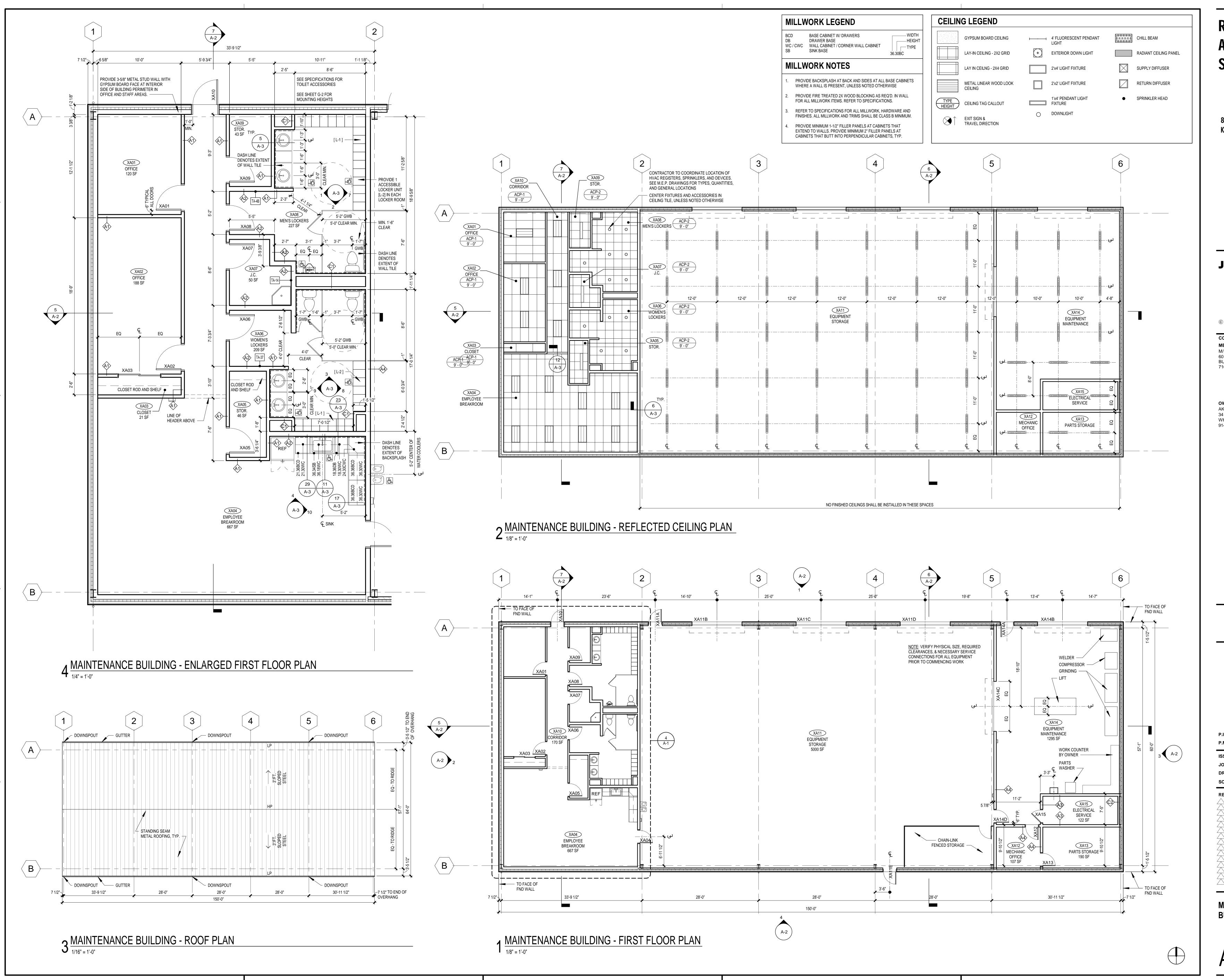
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1/16" = 1'-0"			
ONS:			
	09/30/21 H18064.14 JCJ 1/16" = 1'-0"	09/30/21 H18064.14 JCJ 1/16" = 1'-0"	09/30/21 H18064.14 JCJ 1/16" = 1'-0"

CODE SUMMARY AND LIFE SAFETY PLAN

G-3



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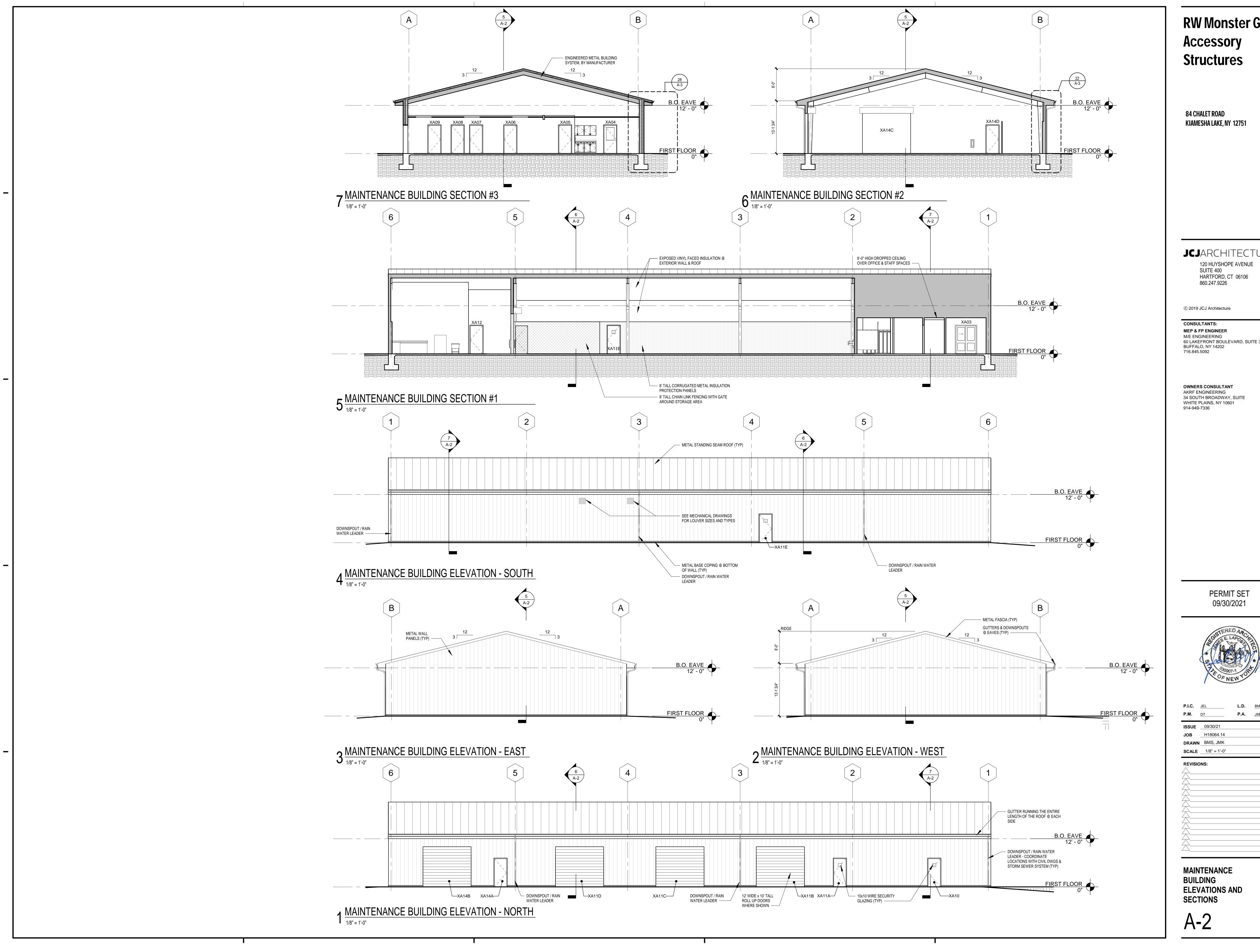
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MAINTENANCE BUILDING PLANS

A-1

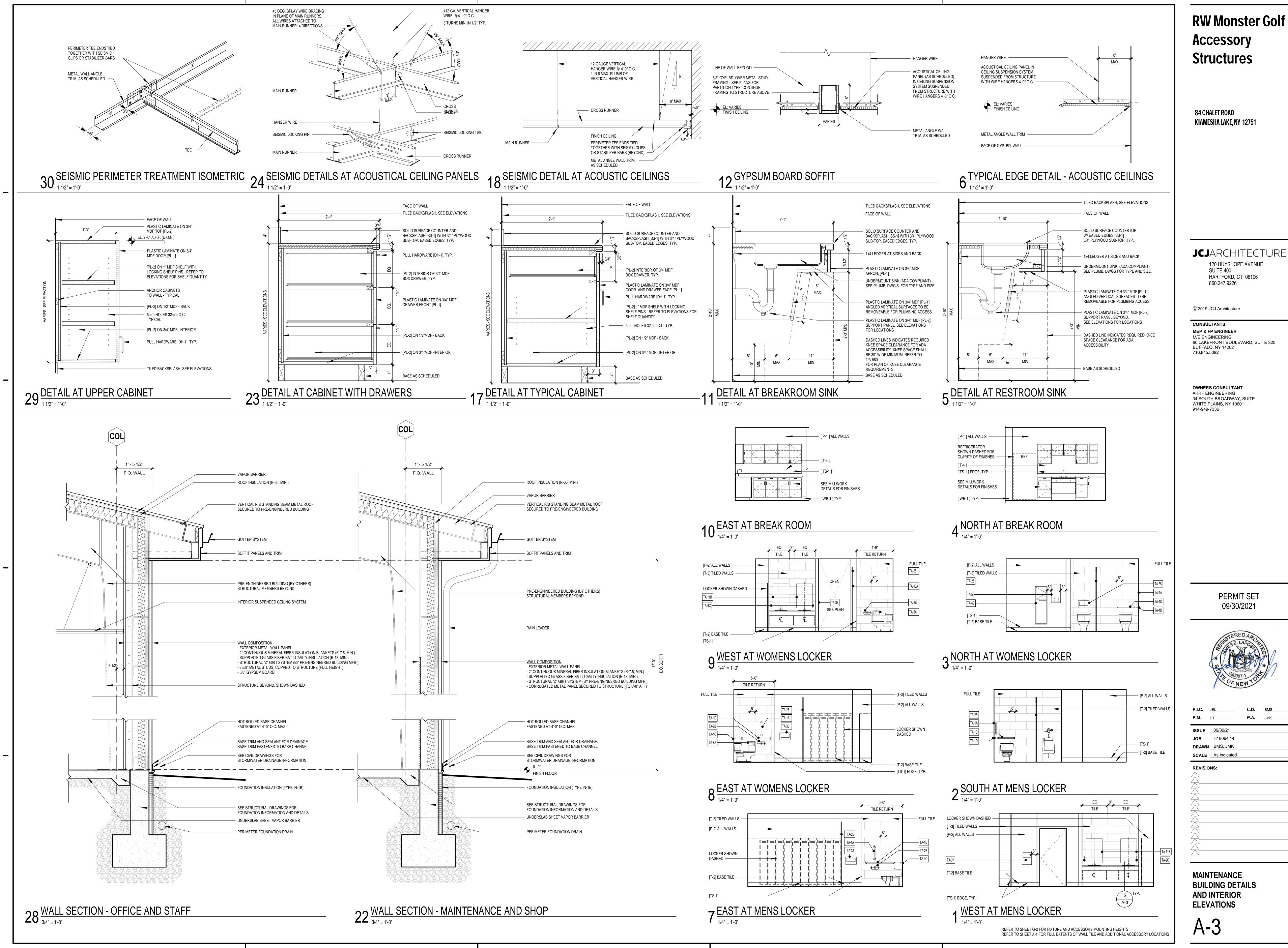


RW Monster Golf

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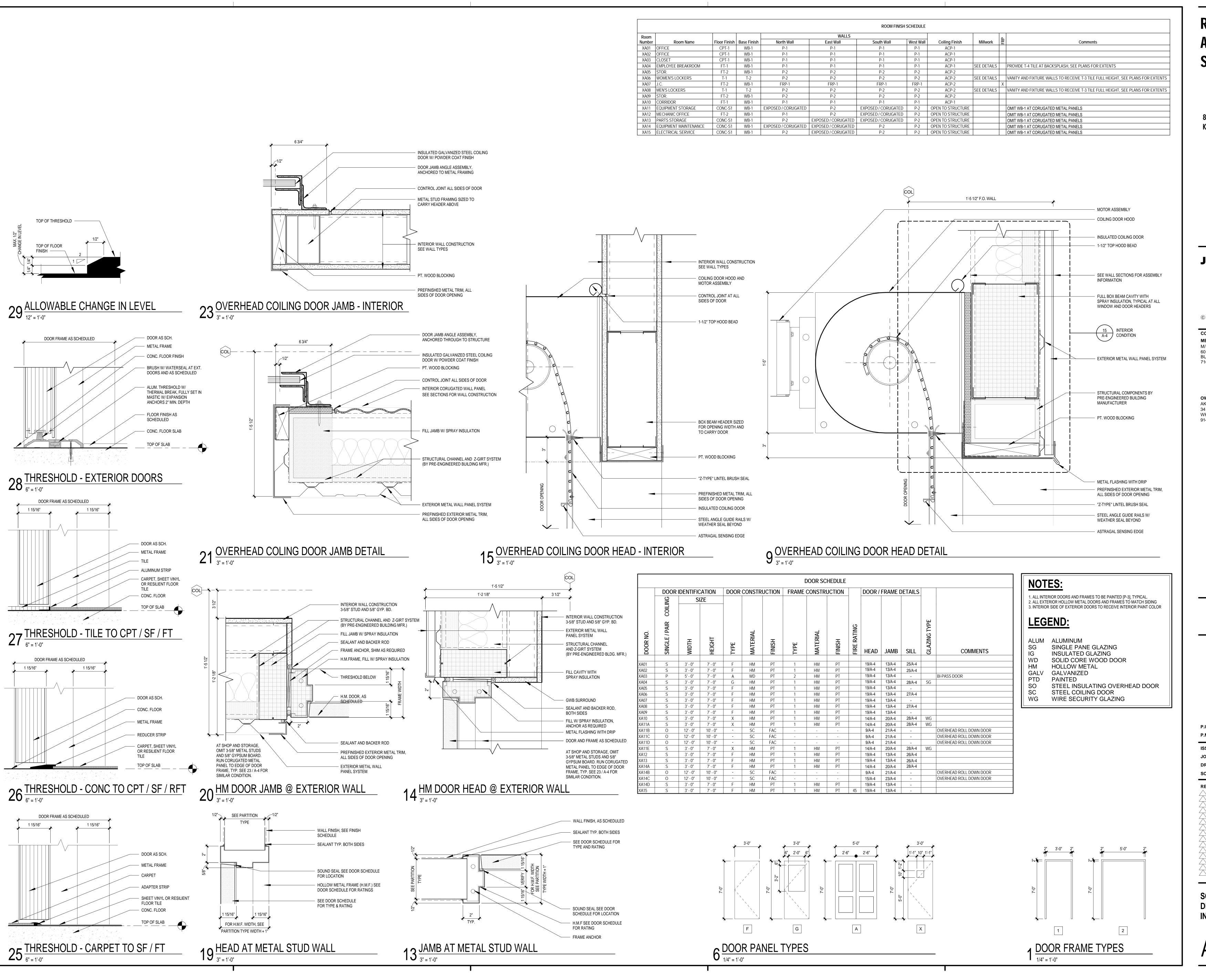




RW Monster Golf



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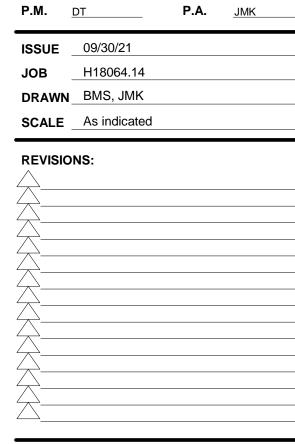
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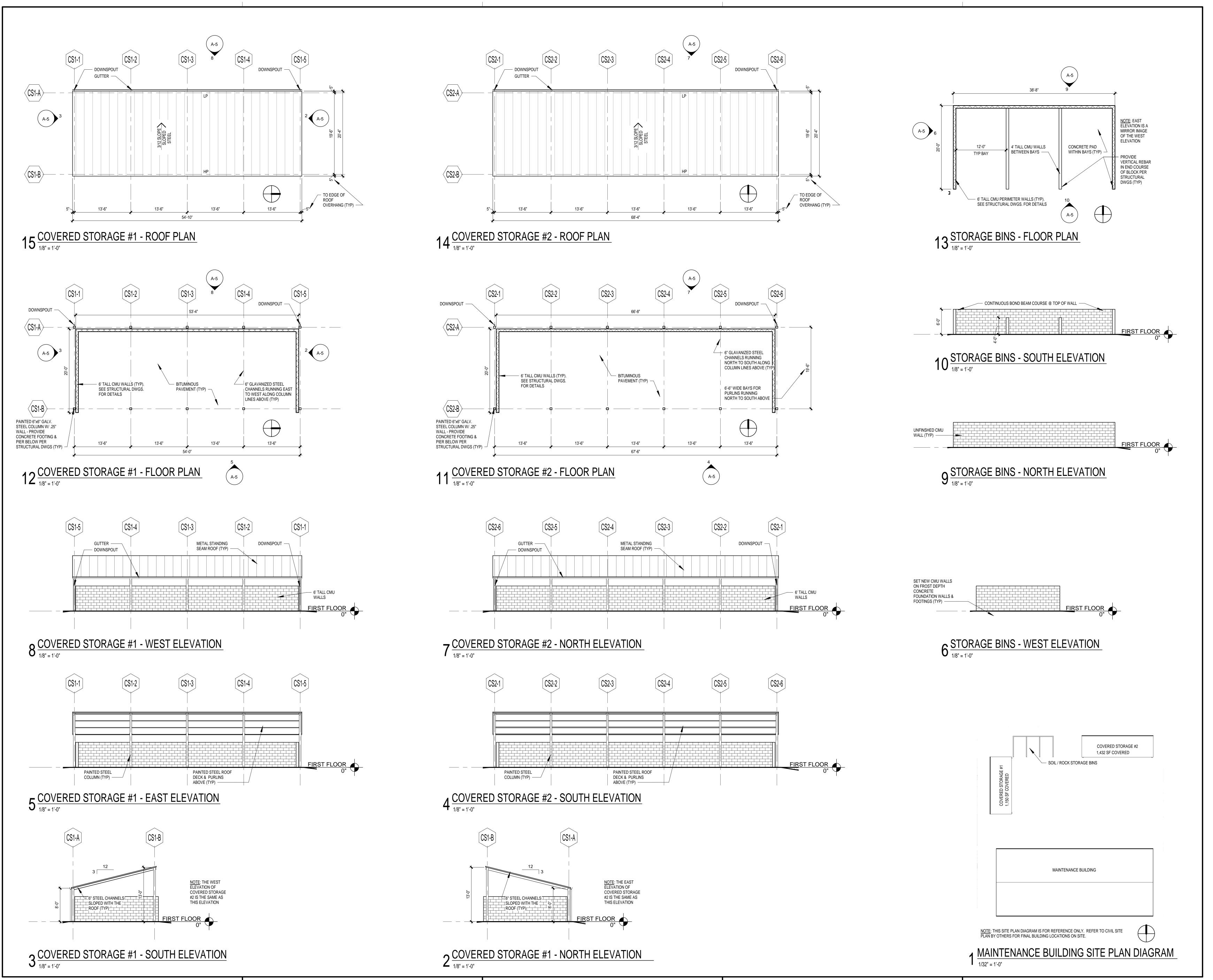
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SCHEDULES AND DETAILS - DOOR AND INTERIOR FINISHES

A-4



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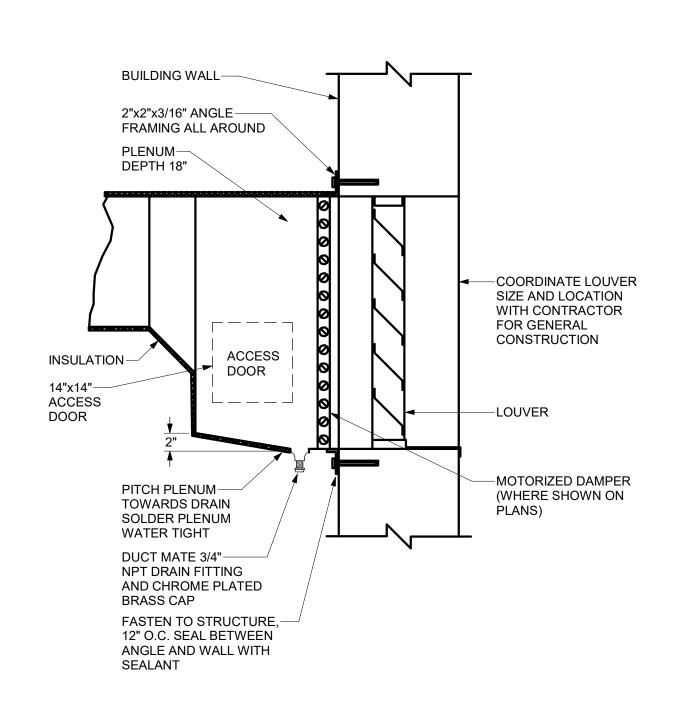
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REVISIONS:

BUILDING ACCESSORY STRUCTURES

A-5

$\langle A \rangle$ XA01 OFFICE 4" FLUE VENT UP THROUGH ROOF. PROVIDE GOOSENECK MEN'S LOCKERS TERMINATION 18" ABOVE ROOF. XA11 EQUIPMENT STORAGE OFFICE A 22x10 -XA14 EQUIPMENT MAINTENANCE XA04 EMPLOYEE BREAKROOM PROVIDE A 2-POLE EQUIPMENT CONTROL CONTACTOR IN A NEMA 1 ENCLOSURE AND ASTRONOMIC TIME CLOCK WITH REVERSE POWER FEATURE. TIME CLOCK SHALL BE TORX MODEL 7300ZL OR APPROVED EQUAL. XA15 ELECTRICAL SERVICE PROVIDE EQUIPMENT LABEL ON TIME CLOCK TO CORRESPOND WITH EQUIPMENT BEING MECHANIC OFFICE PARTS STORAGE $\langle B \rangle$ PTAC-1 L-1 OUTSIDE L-2 EXHAUST AIR INTAKE ▼ | AIR LOUVER LOUVER ROUTE 1" COND. DRAIN TO FLOOR DRAIN IN THIS ROUTE REFRIGERANT PIPING—— FROM FURNACE TO ASSOCIATED ─3" COMB. AIR AND ∠PROVIDE 18" DEEP CONDENSING UNIT. SIZE PIPING AREA. PROVIDE A 3" FLUE VENT FROM PLENUM WITH A CONDENSATE NEUTRALIZER KIT BEFORE DISCHARGE TO PER MANUFACTURER'S MOTORIZED DAMPER **FURNACE TO** RECOMMENDATIONS. SUPPORT CONCENTRIC VENT ON BACKSIDE OF REFRIGERANT PIPING AS FLOOR DRAIN. LOUVER WITH DRAIN PLUG. MOUNT WITH TERMINATION. MOUNT CENTERLINE OF VENT AT APPROX. 11'-0" AFF. BOTTOM OF LOUVER AT APPROX. 10'-4" AFF.



2 LOUVER PLENUM DETAIL

NOT TO SCALE

1 MAINTENANCE BUILDING - FIRST FLOOR PLAN - HVAC

	FURNAC	E SCHEDULE - D	X/GA	S(LP)														
ſ	UNIT NO.	LOCATION	CFM	EXT.	TYPE	AIRFLOW	TOTAL	GAS FURNA	CE			MOTOR					MANUFACTURER & MODEL No.	REMARKS
1				STATIC		CONFIGURATION	COOLING	INPUT	OUTPUT	EFFICIENC	Y	RPM	HP	VOLTS	PHASE	FLA		
				(In. WC)			CAPACITY	CAPACITY	CAPACITY	MINIMUM	TEST	1						
							(TONS)	(MBH)	(MBH)	(%)	PROCEDURE							
ſ	F-1	EQUIPMENT STORAGE	1,075	0.90	CONDENSING	UPFLOW	3.0	60.0	58.2	96.0	ANSI Z21.47	VARIES	0.75	120	1	8.0	TRANE MODEL S9V2B060/4PXCBU36B	1

REGISTE	R GRILLE AN	D DIFFUSE	R SCHEDULE		
TYPE	APPLICATION	MATERIAL	FINISH	MANUFACTURER & MODEL NO.	REMARKS
i					
1	SUPPLY	STEEL	COLOR AS SELECTED BY ARCHITECT	PRICE MODEL SPD	-
Α	RETURN/EXHAUST	STEEL	COLOR AS SELECTED BY ARCHITECT	PRICE MODEL 535D	-

REMARKS:

1. AIRFLOW BASED ON MEDIUM FAN SPEED IN THE 2ND STAGE OF HEATING.

AIR COC	LED CON	DENSING	UNIT SC	CHEDU	ILE		AIR COOLED CONDENSING UNIT SCHEDULE																		
UNIT NO.	LOCATION	SERVES	CAPACITY	COMPRES	SSORS			REFRIGERANT	AMBIENT	COILS			FANS				Р	PERFORMANCE		ELEC CI	HARACTE	RISTIC	S	MANUFACTURER & MODEL No.	REMARKS
			TONS	NO. OF	CAPACITY	RLA	LRA		AIR TEMP	ROWS	FIN	TOTAL	NO. OF	DIA.	SPEED	TOTAL	MOTOR	MINIMUM	TEST	VOLTS	PHASE	MCA	MOP		
				COMP.	STEPS				(DEG. F)		SPACING	FACE AREA	FANS	(ln.)	(RPM)	AIRFLOW	HP	EFFICIENCY	PROCEDURE						
											(FIN/In.)	(Sq. Ft.)			, ,	(CFM)		SEER							
RCU-M1	AT GRADE	OFFICE AREA	3.0	1	1	5.8	38.0	R-410A	95.0	1	24	18.75	1	23.0	825	2,805	0.125	14.0	AHRI 270	208	3	12.0	20.0	TRANE MODEL 4TTA4036A3000A	-

UNIT HEA	ATER SCHEDULE - (GAS(LP)																
UNIT NO.	LOCATION	TYPE	AIR SIDE			GAS			EFFICIE	NCY	FAN MO	OTOR			MOUNTING	THROW	MANUFACTURER & MODEL No.	REMARKS
			AIR	ENT. AIR	LVG. AIR	INPUT	OUTPUT	MIN. GAS PRESS	MIN	TEST	RPM	HP	VOLTS	PHASE	HEIGHT	(Ft.)		
			FLOW	TEMP.	TEMP.	CAPACITY	CAPACITY	BEFORE REGULATOR	(%)	PROCEDURE					(FtIn.)			
			(CFM)	(DEG. F)	(DEG. F)	(BTUH)	(BTUH)	(In. WC)										
UH-1	EQUIPMENT STORAGE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,550	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-
UH-2	EQUIPMENT STORAGE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,500	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-
UH-3	EQUIPMENT STORAGE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,500	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-
UH-4	EQUIPMENT STORAGE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,500	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-
UH-5	EQUIPMENT MAINTENANCE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,500	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-
UH-6	EQUIPMENT MAINTENANCE	HORIZONTAL	990	70.0	115.0	60,000	49,200	11.0	82.0	ANSI Z83.8	1,500	0.066	115	1	9.0	36.0	MODINE MODEL HD60	-

LOUVER	SCHEDULE												
UNIT NO.	LOCATION SERVICE TYPE FINISH FREE DIMENSIONS (APPROX.) AIR PERFORMANCE								MANUFACTURER & MODEL NO.	REMARKS			
					AREA	WIDTH	HEIGHT	DEPTH	AIR	VEL	MAX P.D.		
					(Sq. Ft.)	(ln.)	(ln.)	(ln.)	FLOW	(FPM)	(In. WC)		
									(CFM)				
L-1	EQUIPMENT STORAGE XA11	ERV-M1	FIXED LOUVER	POWDER COAT	1.06	24	16	4	500	453	0.04	GREENHECK MODEL ESD-403	1, 2
L-2	EQUIPMENT STORAGE XA11	ERV-M1	FIXED LOUVER	POWDER COAT	1.06	24	16	4	500	453	0.04	GREENHECK MODEL ESD-403	1, 2

REMARKS:
1. INSECT SCREEN.
2. FINISH COLOR TO BE SELECTED BY ARCHITECT.

PACKAG	ACKAGED TERMINAL AIR CONDITIONING UNIT SCHEDULE - AIR COOLED DX/ELECTRIC															
UNIT NO.	LOCATION	SERVICE	COOLING	CAPACI	TY		HEATING CO	IL		ELEC CHARAC	TERISTI	CS	EFFICIENCY		MANUFACTURER & MODEL No.	REMARKS
1			AIR	O.A.	COOLING	OUTDOOR	TYPE	CAPACITY	NO. OF	VOLTS PHAS	E MCA	MOP	MINMUM	TEST		
			FLOW	(CFM)	CAP. TOTAL	COIL EAT		(MBH)	STEPS				(EER)	PROCEDURE		
			(CFM)	, ,	(MBH)	(DEG. F)		, ,					, ,			
PTAC-1	MECHANIC OFFICE	MECHANIC OFFICE	370	35	11.4	95.0	OPEN COIL	6.8	1	208 1	14.1	15.0	11.0	AHRI 310/380	AMANA MODEL PTH123G25A	1, 2

REMARKS:
1. PROVIDE 2.5 KW AUXILIARY ELECTRIC HEATER.
2. PROVIDE SUB-BASE KIT.

PACKAG	PACKAGED ENERGY RECOVERY VENTILATION UNIT SCHEDULE - STATIC PLATE CORE HEAT EXCHANGER																									
UNIT NO.	LOCATION	SERVICE	MODE	SUPPLY F	AN			EXHAUST F	AN			ELECTRIC	AL CHARA	CTERISTIC	S	TOTAL	PERI	ORMAI	ICE CO	NDITION	NS (DEG	3. F)			MANUFACTURER & MODEL No.	REMARKS
				AIR	E.S.P.	T.S.P.	HP	AIR	E.S.P.	T.S.P.	HP	VOLTS	PHASE	MCA	MOP	EFF.		O.A.	F	R.A.	│ S	S.A.		.A.		
				FLOW	(In. WC)	(In. WC)		FLOW	(In. WC)	(In. WC)						(%)	DB	WB	DB	WB	D	WB	DB	WB		
				(CFM)	, ,	<u> </u>		(CFM)		· , ,						, ,										
ERV-M1	FOURDMENT STORAGE VA11	OFFICE AREA	SUMMER	500	0.75	0.78	0.50	500	0.75	0.78	0.50	208	4	0.5	15.0	53.9	86.5	74.8	75.0	62.4	78.4	68.5	83.0	69.6	CDEENIJECK MODEL MINICODE 40 VC EM	
EKV-IVI I	EQUIPMENT STORAGE XA11	OFFICE AREA	WINTER	500	0.75	0.76	0.50	500	0.75	0.76	0.50	200	'	0.5	15.0	65.8	2.7	1.0	70.0	54.2	48.1	38.9	23.5	62.9	GREENHECK MODEL MINICORE-10-VG-FM	-

RW Monster Golf Accessory Structures

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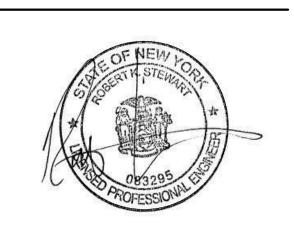
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FIRST FLOOR PLAN, SCHEDULES AND DETAIL - HVAC

M-113

GENERAL NOTES (APPLY TO ALL DRAWINGS):

- A. ALL CONDUITS SHALL BE INSTALLED AS HIGH AS POSSIBLE ABOVE FINISHED CEILINGS AND CONCEALED IN WALLS UNLESS OTHERWISE INDICATED. ALL CONDUITS SHALL RUN PARALLEL AND PERPENDICULAR WITH BUILDING WALLS AND STRUCTURE. CONDUITS CONCEALED IN WALLS SHALL BE INSTALLED VERTICALLY, HORIZONTAL RUNS OF CONDUIT SHALL NOT BE PERMITTED.
- B. CONTRACTOR IS HEREBY CAUTIONED THAT ELECTRIC POWER CHARACTERISTICS (VOLTAGE, PHASE, HORSEPOWER, AMPERAGE, ETC.) OF EQUIPMENT IS BASED ON AVAILABLE INFORMATION AT THE TIME OF PROJECT DESIGN. CONTRACTOR MUST VERIY CHARACTERISTICS FOR EACH PIECE OF NEW EQUIPMENT PRIOR TO ORDERING ELECTRICAL EQUIPMENT. INDICATE VERIFICATION ON SUBMITTALS.
- C. LOCATIONS INDICATED FOR LIGHTING FIXTURES ARE APPROXIMATE. LOCATE FIXTURES AS REQUIRED TO AVOID INTERFERENCE WITH BUILDING STEEL, PIPING, DUCTWORK, CONDUIT, DIFFUSERS, GRILLES, SPEAKERS, SMOKE DETECTORS, ETC. FIELD COORDINATE EXACT LOCATIONS AS NEAR AS POSSIBLE TO THE LOCATION INDICATD.
- D. EXACT LOCATIONS OF CEILING MOUNTED SMOKE DETECTORS, EXIT SIGNS, ETC. SHALL BE COORDINATED WITH OTHER CEILING MOUNTED EQUIPMENT TO AVOID CONFLICT. LOCATE DEVICES AS NEAR AS POSSIBLE TO THE LOCATION INDICATED. FIRE ALARM SMOKE AND HEAT DETECTORS SHALL BE LOCATED 3'-0" MINIMUM FROM HVAC DIFFUSERS, REGISTERS, GRILLES, ETC. SMOKE DETECTORS AT SMOKE DOORS MUST BE INSTALLED WITHIN 5'-0" OF THE DOORS (REFER TO NFPA 72).
- E. EXACT LOCATIONS OF ALL DEVICES, RACEWAYS, ETC. SHALL BE FIELD VERIFIED TO AVOID INTERFERENCE WITH CABINETRY, FURNITURE, ETC. COORDINATE FINAL LOCATIONS WITH THE OWNER, ARCHITECT AND ENGINEER BEFORE INSTALLATION.
- CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT AND OTHER CONTRACTORS. REFER TO ARCHITECTURAL PLANS FOR CASEWORK LAYOUT, ELEVATIONS, ETC. COORDINATE WITH LOCATIONS OF ELECTRICAL DEVICES AND OUTLETS.
- G. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE PRIOR TO COMMENCING ANY WORK.
- H. PROVIDE CONDUIT/WIRING (CIRCUITING) AND REQUIRED CONNECTIONS TO ALL DEVICES/ EQUIPMENT. CONNECT TO CIRCUIT(S) ÁS INDICATED.
- CIRCUITING TO DEVICES/EQUIPMENT SHALL BE 2 #12 WITH 1 #12 GROUND (MULTIPLE HOMERUNS IN SAME CONDUIT MAY SHARE SAME EQUIPMENT GROUND) FOR EACH 20 AMPERE CIRCUIT UNLESS OTHERWISE NOTED. ALL CIRCUITS SHALL HAVE SEPARATE NEUTRALS (CIRCUITS SHALL NOT SHARE NEUTRALS).

	DATA						
© © ■C POWER ■ C	•	TWO (2) DUPLEX RECEPTACLES AND TWO (2) COMMUNICATION OUTLETS IN 3-GANG OUTLET BOX WITH LOW VOLTAGE DIVIDER. PROVIDE TWO (2) CATEGORY 6A CABLES TO DATA ROOM INDICATED.					
	▽	ONE (1) DUPLEX RECEPTACLE AND ONE (1) COMMUNICATION OUTLET OUTLET IN 2-GANG OUTLET BOX WITH LOW VOLTAGE DIVIDER. PROVIDE ONE (1) CATEGORY 6A CABLE TO DATA ROOM INDICATED.					
■ C	•	COMMUNICATION OUTLET IN 1-GANG OUTLET BOX. PROVIDE ONE (1) CATEGORY 6A CABLE TO DATA ROOM INDICATED. W - WALL MOUNTED AT 46"					
	TV	ONE (1) DUPLEX RECEPTACLE AND ONE (1) COMMUNICATION OUTLET CONNECTOR IN 2-GANG RECESSED OUTLET BOX. PROVIDE ONE (1) PATCH CABLE FOR TV. ROUTE COMMUNICATION CABLE TO LOCAL WIRING CLOSET AS SHOWN ON DRAWINGS. PROVIDE ONE (1) CATEGORY 6A CABLE TO DATA ROOM INDICATED.					
	DR	DATA RACK					

ALL RECEPTACLES ASSOCIATED WITH DATA OUTLETS SHALL HAVE "DATA OUTLET POWER" LABEL ON FACEPLATE. LABEL TO BE DYMO TAPE. COORDINATE FINAL MOUNTING HEIGHTS WITH ARCHITECTURAL AND

POS - POINT OF SALE KP - KITCHEN PRINTER

INTERIOR DESIGN DRAWINGS.

ATM - AUTOMATIC TELLER MACHINE T/A - TIME/ATTENDANCE MACHINE

DESCRIPTION	
ABOVE FINISHED FLOOR	
ABOVE FINISHED GRADE	
AMPERE STADE	
AUTOMATIC	
BASEMENT	
BREAKER	
CEILING	
CONTRACTOR	
CONTACTOR	
CONDUIT	
DISTRIBUTION PANEL	
DOWN	
EACH	
ELECTRICAL CONTRACTOR	
ELECTRIC	
EMERGENCY	
EMERGENCY	
ELECTRIC WATER COOLER	
EXISTING	
FIRE ALARM	
FIRE ALARM CONTROL PANEL	
FIRE ALARM TERMINAL CABINET	
FAN COIL UNIT	
FIRE ZONE (3)	
GALVANIZED RIGID STEEL	
GROUND	
GENERAL CONTRACTOR	
GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	
HEATING, VENTILATING AND AIR CONDIT	IONING
HORSEPOWER	
KILOWATT	
LIGHTING MAIN CIRCUIT BREAKER	
MAIN LUG ONLY	
MICROWAVE	
NIGHT LIGHT	
PANEL	
PHASE	
PLUMBING CONTRACTOR	
POWER VENTILATOR	
POLE	
REFRIGERATOR	
SPACE	
SPECIFICATION	
SWITCH	
TELEVISION	
TELEPHONE BACKBOARD	
TELEPHONE TERMINAL CABINET	
TYPICAL	
UNDERWRITER'S LABORATORY	
VOLT	
WEATHERPROOF	
WIRE	
P = POLE A = AMPERE	
MOUNTED UNDER COUNTER HEIGHT	
MOUNTED UNDER COUNTER HEIGHT	
UNIT VENTILATOR WIRE GUARD	
WINE GUARD	

VANDAL PROOF POLYCARBONATE GUARD

FRACTIONAL HORSEPOWER

CABINET UNIT HEATER

EXHAUST FAN

ABBREVIATIONS

ABBREV.

A.F.F.

A.F.G.

AUTO.

BSMT.

BKR.

CLG.

CONTR.

DP

DN.

EA.

E.C.

EMERG.

EM.

EWC

EXIST.

F.A.

F.A.C.P.

F.A.T.C.

FCU

FZ (3)

GRS.

GND.

G.C.

GEN. G.F.C.I.

H.V.A.C.

KW.

LTG.

M.C.B.

M.L.O. MICRO

P.C.

SPEC.

SW.

T.B.B.

T.T.C.

TYP.

U.L.

4 W.

3P.15<u>A</u>.

WG

CUH

ELEC.

CONT.

	BASIC MATERIALS AND METHODS
LP-404	HOME RUN TO PANELBOARD. LETTERS/NUMBERS INDICATE PANEL. NUMBERS INDICATE CIRCUITS. NUMBER OF ARROWS EQUALS NUMBER OF CIRCUITS. CIRCUIT SHALL BE 20 AMP, 120 VOLT, 2 #12, 1 #12 EG., IN "C, UNLESS NOTED OTHERWISE. BRANCH CIRCUIT WIRING SIZE AND NUMBER TO MATCH HOMERUN. REFER TO SPEC'S FOR RACEWAY TYPE.
	SOLID HALF ARROW(S) INDICATES 120 VOLT CIRCUIT TO SINGLE POLE CIRCUIT BREAKER(S), UNLESS NOTED OTHERWISE.
	SOLID FULL ARROW(S) INDICATES 208 VOLT CIRCUIT TO MULTI-POLE CIRCUIT BREAKER, UNLESS NOTED OTHERWISE.
——- UE	UNDERGROUND ELECTRIC
UC	UNDERGROUND COMMUNICATION
—— UP——	UNDERGROUND PRIMARY FEEDER
	HEAVY DASHED INDICATES CONDUIT RUN BELOW SLAB
3	REFERENCE TO DRAWING NOTE
J	JUNCTION BOX
	SPECIAL PURPOSE RECEPTACLE. PROVIDE PROPER VOLTAGE, CLASS, CURRENT RATING AND NEMA CONFIGURATION AS REQUIRED BY BRANCH CIRCUIT AND/OR MATCH CAP ON EQUIPMENT BEING FURNISHED BY OTHERS. PROVIDE CORD AND CAP.
Φ	DUPLEX RECEPTACLE, 20 AMP, 125 VOLT SUBSCRIPTS INDICATE TYPE: CR - CORROSION RESISTANT DT - DUST TIGHT IG - ISOLATED GROUND OC - OVER THE COUNTER SS - MOV SURGE SUPPRESSION UC - UNDER THE COUNTER WP - WEATHER PROOF L - LOCKABLE COVER TR - TAMPER RESISTANT
P	DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTING TYPE
#	QUAD RECEPTACLE 20 AMP, 125 VOLT
#	QUAD RECEPTACLE 20 AMP, 125 VOLT, GROUND FAULT CIRCUIT INTERRUPTING TYPE
S ³ a,b,c	TOGGLE SWITCH, VOLTAGE AS INDICATED ON FIXTURE SCHEDULE, SUBSCRIPTS INDICATE TYPE: 2 - TWO POLE SWITCH 3 - THREE WAY SWITCH 4 - FOUR WAY SWITCH LV - LOW VOLTAGE, MOMENTARY CONTACT K - KEY OPERATED P - PILOT LIGHT WP - WEATHERPROOF EP - EXPLOSION PROOF M - MOMENTARY CONTACT SWITCH OS - OCCUPANCY SENSOR VS - VACANCY SENSOR TS - ELECTRONIC TIMER a,b,c - SWITCHING DESIGNATIONS NUMBER OF LETTERS EQUALS NO. OF GANGED SWITCHES IH - ILLUMINATED HANDLE HLP - HEAT LAMP PRESET

CEILING MOUNTED OCCUPANCY SENSOR

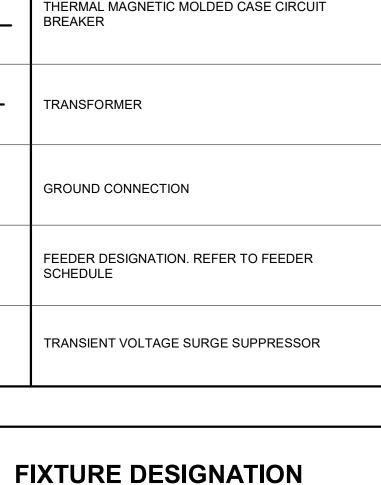
HANDHOLE

		FIRE ALARM
	S	SMOKE DETECTOR
	F	MANUAL PULL STATION
D	F	ALARM SIGNAL, SPEAKER AND STROBE
	F✓	ALARM SIGNAL, STROBE
	H	RATE-OF-RISE HEAT DETECTOR
	H 190°	FIXED TEMPERATURE (190° DEG.) HEAT DETECTOR
	H ^{135°}	FIXED TEMPERATURE (135° DEG.) HEAT DETECTOR
	FACP	FIRE ALARM CONTROL PANEL
	СО	CARBON MONOXIDE DETECTOR

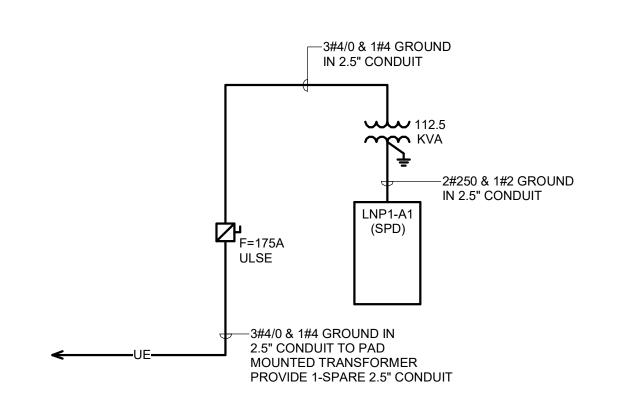
F	POWER DISTRIBUTION AND CONTROL
Т	TRANSFORMER
=	208Y/120 VOLT PANELBOARD.
	DISCONNECT SWITCH
ď	FUSED DISCONNECT SWITCH
M	MOTOR CONNECTION. REFER TO ELECTRICAL EQUIPMENT AND CONTROL SCHEDULE FOR SIZE
+	COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT

		ONE LINE DIAGRAM SYMBOLS
	1	FUSED DISCONNECT SWITCH
		THERMAL MAGNETIC MOLDED CASE CIRCUIT BREAKER
	₩	TRANSFORMER
	<u></u>	GROUND CONNECTION
	(A)	FEEDER DESIGNATION. REFER TO FEEDER SCHEDULE
	SPD	TRANSIENT VOLTAGE SURGE SUPPRESSOR
·		

	LUMINAIRES
	CEILING MOUNTED LUMINAIRE
ΔŌδ	WALL MOUNTED LUMINAIRE
	LUMINAIRE PROVIDED WITH EMERGENCY BATTERY PACK
O _{NL}	LUMINAIRE CONNECT TO NIGHT LIGHT CIRCUIT
22	WALL MOUNTED EMERGENCY LUMINAIRE WITH BATTERY PACK
∇	EMERGENCY BATTERY PACK REMOTE LUMINAIRE HEAD
⊗	CEILING MOUNTED EXIT LUMINAIRE
	WALL MOUNTED EXIT LUMINAIRE
ᠳ□	SITE LIGHT SINGLE
	SITE LIGHT DOUBLE



FIXTURE TYPE — CIRCUIT NUMBER SWITCH LEG F01 4- a -EM EMERGENCY DESIGNATION



RW Monster Golf Accessory **Structures**

84 CHALET ROAD KIAMESHA LAKE, NY 12751

JCJARCHITECTURE 120 HUYSHOPE AVENUE SUITE 400

HARTFORD, CT 06106

860.247.9226

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CONSULTANTS: MEP & FP ENGINEER M/E ENGINEERING 60 LAKEFRONT BOULEVARD, SUITE 320 BUFFALO, NY 14202 716.845.5092

OWNERS CONSULTANT AKRF ENGINEERING 34 SOUTH BROADWAY, SUITE WHITE PLAINS, NY 10601 914-949-7336

PERMIT SET



ISSUE 09/30/21 **JOB** __H18064.14 DRAWN_ DSL SCALE NTS **REVISIONS:**

ELECTRICAL SYMBOL LIST, **GENERAL NOTES** AND DIST. DIAGRAM

E-001

SITE PLAN DRAWING NOTES

- 1 PAD MOUNTED 750 KVA TRANSFORMER. VERIFY EXACT LOCATION IN FIELD.
- 2 PROVIDE TWO (2) 2" CONDUITS IN DUCTBANK FROM TRANSFORMER LOCATION TO MAINTENANCE BUILDING. STUB CONDUITS UP AT EQUIPMENT ROOM XA15. 3 STUB CONDUITS UP 12" ABOVE GRADE AND CAP. PROVIDE CONDUIT SEALS FOR CLASS 1,
- DIV 2 LOCATIONS. 4 ROUTE 2-1" CONDUITS TO ELECTRICAL XAIS. STUB 12" AFF AND CAP. PROVIDE CONDUIT SEALS FOR CLASS 1, DIV 2 LOCATIONS.
- 5 PROVIDE 24"x24"x36" DEEP HANDHOLE.
- 6 PROVIDE 120V, 20A CIRCUIT FOR SHED'S INTEGRAL LIGHTING.
- VERIFY EXACT LOCATION OF UTILITY POLE IN FIELD. 8 PROVIDE 2-4" CONDUITS FOR INCOMING COMMUNICATION IN DUCTBANK TO ROOM XAIS.

RW Monster Golf

Accessory **Structures**

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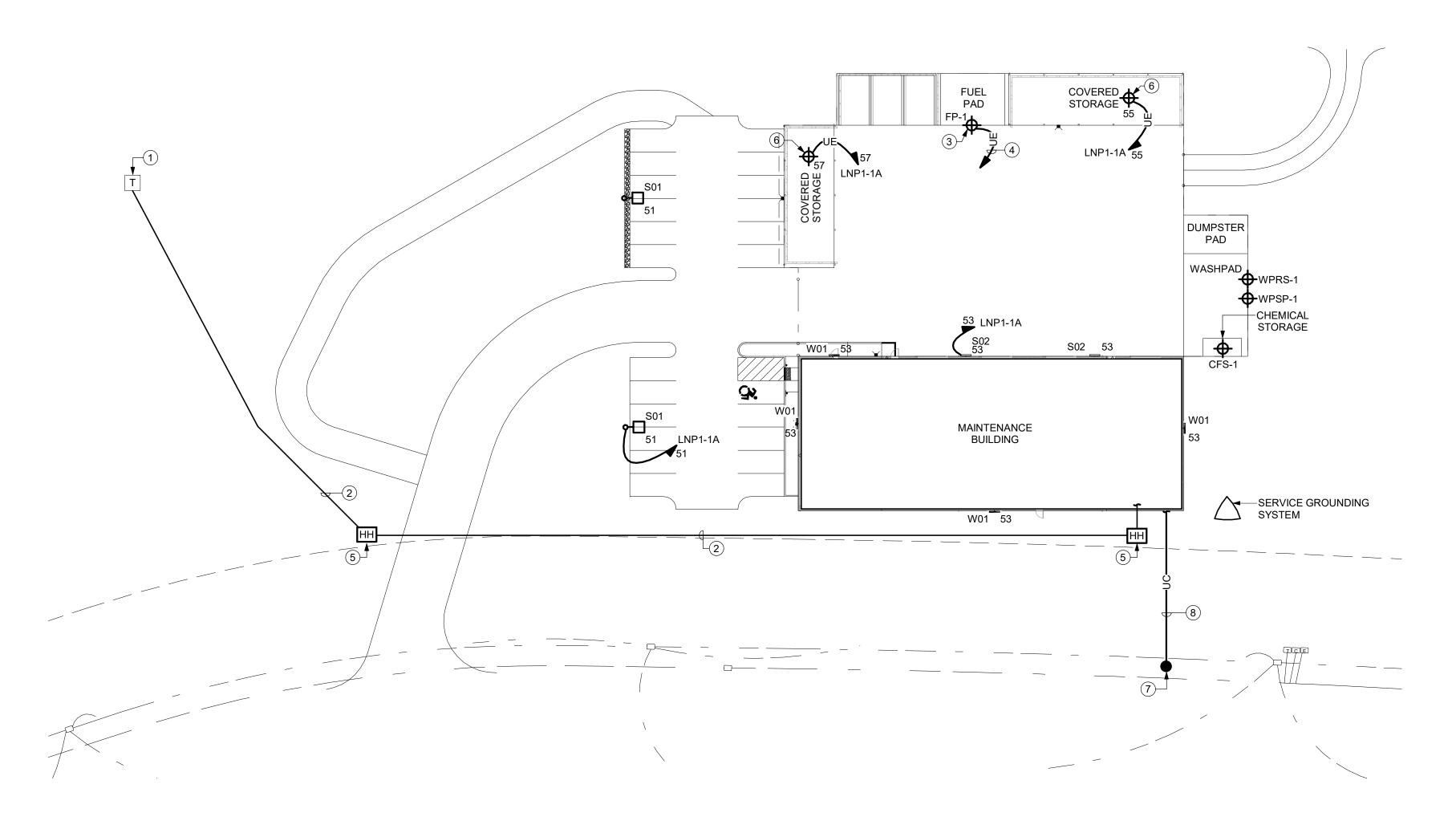
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SCALE	1" = 30'-0"		
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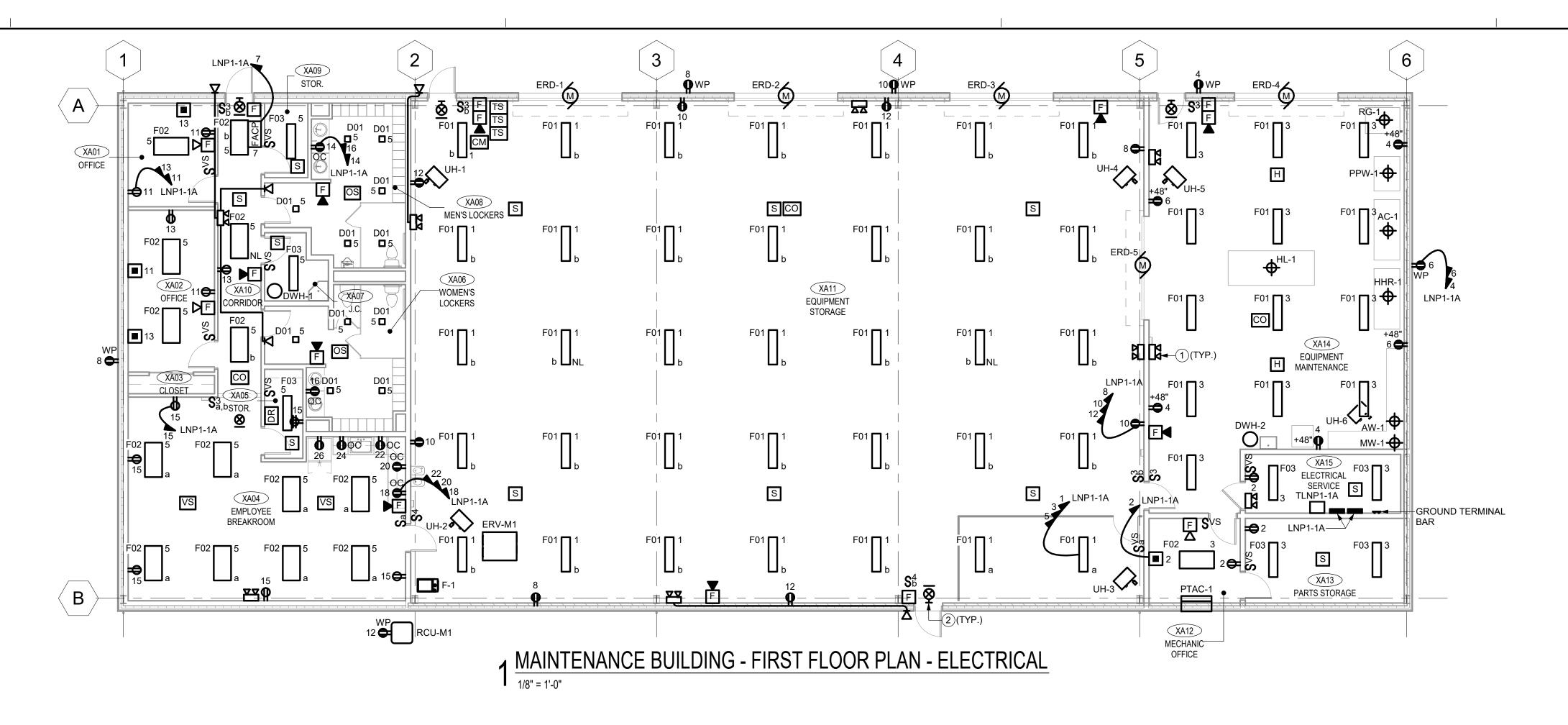
SITE PLAN -MAINTENANCE **BUILDING**

E-112



1 MAINTENANCE BUILDING - SITE PLAN - ELECTRICAL

1" = 30'-0"



			LUMINARE SCHE	DULE						
						COLOR TEM				
TYPE	DESCRIPTION	MFGR. & CATALOG No.	LAMP	DRIVER VOLTAGE	UNIT WATTS	[K]	MOUNTING	DIMMING	LOCATION	REMARKS
D01	4-1/2" SQUARE DOWNLIGHT. INTEGRAL DIFFUSE LENS. ALUMINUM SQUARE DIE-CAST BAFFLE TRIM. WHITE FINISH.	LITHONIA: 6JBK-SQ-30K-90CRI-MW OR APPROVED EQUAL.	90 CRI 770 LUMEN LED MODULE	120V	11W	3000K	RECESSED	NO	LOCKER ROOMS	
EM01	EMERGENCY BATTERY PACK FIXTURE. INTEGRAL NI-CAD BATTERY, MIN 90 MINUTE.	LITHONIA: EU2L OR APPROVED EQUAL.	LED	120-277V	1W		WALL SURFACE		ALL	PROVIDE ADDITIONAL REMOTE HEADS WHERE SHOWN.
EX01	THERMOPLASTIC LED EXIT SIGN. INTEGRAL 90 MINUTE MININMUM BATTERY.	LITHONIA, LQM, OR APPROVED EQUAL.	LED	120-277V	5W		AS SHOWN	-	ALL	MOUNTING AND ARROWS AS SHOWN ON PLANS.
F01	1'x4' LINEAR LOW BAY FIXTURE. ENAMEL FINISH. DAMP LOCATION LISTED.	LITHONIA: MSL SERIES MSL-8000LM-SBL-MVOLT-XX-40K-80CRI OR APPROVED EQUAL.	80 CRI, 8000 LUMEN LED MODULE	120-277V	75W	4000K	SURFACE OR PENDANT	NO	EQUIPMENT STORAGE	REFER TO ARCHITECTURAL RCP FOR MOUNTING HEIGHT.
F02	2'x4" FLAT LED PANEL.	LITHONIA: CPX LED SERIES CPX-2X2-3200-35K-M4 OR APPROVED EQUAL.	80 CRI, 3200 LUMEN LED MODULE	120-277V	30W	3500K	RECESSED	NO	OFFICES	PROVIDE SURFACE MOUNT ADAPTER WHERE NECESSARY.
F03	4' LINEAR LENSED LED STRIPLIGHT	LITHONIA: ZL1D SERIES OR APPROVED EQUAL.	5000 LUMEN LED MODULE	120-277V	19W	4000K	SURFACE	NO	STORAGE	
S01	20' SITE LIGHTING FIXTURE. INTEGRAL PHOTOCELL. TYPE V DISTRIBUTION	LITHONIA: D-SERIES OR APPROVED EQUAL.	11000 LUMEN MODULE	120-277V	102W	4000K	POLE	NO	SITE EXTERIOR	
S02	EXTERIOR WALL MOUNTED LED SITE FIXTURE. INTEGRAL PHOTOCELL. TYPE IV DISTRIBUTION.	LITHONIA: D-SERIES OR APPROVED EQUAL.	10000 LUMEN MODULE	120-277V	71W	4000K	EXTERIOR WALL	NO	EXTERIOR	
W01	EXTERIOR WALL MOUNTED LED WALL PACK. REFRACTIVE GLASS LENS. INTEGRAL PHOTOCELL. INTEGRAL EMERGENCY BATTERY FIXTURE	LITHONIA: WST LED SERIES OR APPROVED EQUAL.	6000 LUMEN MODULE	120-277V	51W	4000K	EXTERIOR WALL	NO	EXTERIOR	

ELECTRIC EQUIPMENT AND CONTROL SCHEDULE

GENERAL NOTES:

- A. ALL DEVICES PROVIDED BY THE DIVISION 16 CONTRACTOR.
- B. ITEM NUMBER INDICATES EQUIPMENT NUMBER
- C. ALL DEVICES SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. D. PROVIDE OVERLOADS, SIZE AS REQUIRED, BY THE DIVISION 15 CONTRACTOR.
- E. "AU" INDICATES CONTROL DEVICES IS LOCATED AT THE UNIT.
- F. "NF" INDICATES NON-FUSED.
- G. "IU" INDICATES INTEGRAL WITH UNIT.

		EQUIPMENT								POWER SO	URCE, PRO	TECTION &	WIRING												CONTROL	DEVICES	AS SHOWN	ON THE PL	ANS BY I	TEM DESIG	NATION	ATION							
ITEM ID	NAME	ROOM LOCATION	HP	KW	PHASE	SYSTEM VOLTS	MCA or SYSTEM AMPS	PANEL or CONTROL CENTER	CIRCUIT BREAKE or "FU" FOR FUS	R TO	WIRING FRI CONTROL	UNIT	POWE CONTROL		QUIPMENT	NEMA SIZE STARTER	NEMA TYPE MANUAL MOTOR STARTER	MANUAL MOTOR STARTER WITH RELAY	MAGNETIC STARTER	COMBINATION MAGNETIC STARTER	COMBINATION REDUCED VOLTAGE STARTER OMBINATION STARTER MP/FUSE (F)	SIZE ADJUSTABLE SPEED DRIVE	ADJUSTABLE SPEED DRIVE WITH BYPASS	ADJUSTABLE SPEED DRIVE WITH REDUNDANT ASD	PACKAGED CONTROL UNIT FURNISHED BY OTHERS DUPLEX PUMP CONTROLLER BY	FIRE ALARM FAN SHUTDOWN REQUIRED	HOPLY DUCT SMOKE DETECTOR W/REMOTE TEST STATION ETURN DUCT SMOKE DETECTOR W/	EXHAUST DUCT SMOKE DETECTOR W/ REMOTE TEST STATION	THERMOSTAT CONNECTION	AQUASTAT CONNECTION	MOTORIZED DAMPER CONNECTION	START/STOP PUSHBUTTONS	IAND/OFF/AUTO SELECTOR SWITCH	SWITC AMPS	CH FUSE	ETY SWITCH	WEATUE	ER REF. F NOTES	ITEM ID
UH-1	UNIT HEATER No.1	EQUIPMENT STORAGE XA 11	<u> </u>		1	120	1.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C	<u> </u>	l y	+			0	+	1	 		_	<u>σ</u>	+=	<u> </u>			<u> </u>	ΔΙ		+	+	+		UH-1
UH-2	UNIT HEATER No.2	EQUIPMENT STORAGE XA 11			1	120	1.0	LNP1-1A LNP1-1A	20/1	2#12	1#12	1/2 C	2#12	1#12	1/2 °C		^ 		1					1 1				-					Al				-	-	UH-2
UH-3	UNIT HEATER No.3	EQUIPMENT STORAGE XA 11			1	120	1.0	LNP1-1A	20/1	2#12	1#12	1/2 C	2#12	1#12	1/2 °C	-	X	1	1					1 1				-					ΔΙ	'				_	UH-3
UH-4	UNIT HEATER No.4	EQUIPMENT STORAGE XA 11			1	120	1.0	LNP1-1A	20/1	2#12	1#12	1/2 C	2#12	1#12	1/2 °C		X		1					1 1									AL	_			_	_	UH-4
UH-5	UNIT HEATER No.5	EQUIPMENT MAINTENANCE XA 14			1	120	1.0	LNP1-1A	20/1	2#12	1#12	1/2 °C	2#12	1#12	1/2 °C		X	1	1 1					1 1				1					Al		1		1		UH-5
UH-6	UNIT HEATER No.6	EQUIPMENT MAINTENANCE XA 14			1	120	1.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		X																Al				-		UH-6
RCU-M1	AIR COOLED CONDENSING UNIT	MAINTENANCE EXTERIOR			3	208	12.0	LNP1-1A	20/3	3#12	1#12	1/2"C	3#12	1#12	1/2"C																			30	NF	AU	Y		RCU-M
HL-1	HYDRAULIC LIFT	MAINTENANCE			1	208	30.0	LNP1-1A	40/3	2#8	1#10	3/4"C	2#8	1#10	3/4"C																			60	NF	AU	N		HL-1
AC-1	AIR COMPRESSOR	MAINTENANCE			1	208	30.8	LNP1-1A	40/3	4#8	1#10	3/4"C	4#8	1#10	3/4"C																			60	NF	AU	N		AC-1
CFS-1	CHEMICAL/FERTILIZER STORAGE	MAINTENANCE			1	120	15.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C																			30	NF	AU	Y		CFS-1
PTAC-1	PACKAGED TERMICAL AIR CONDITIONERS	MECHANIC OFFICE XA12			1	208	14.1	LNP1-1A	15/2	2#12	1#12	1/2"C	2#12	1#12	1/2"C																								PTAC-1
HHR-1	HYDRAULIC HOSE REPAIR	EQUIP. MAINTENANCE XA14			1	120	10.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		Х																Al	J					HHR-1
010/ 4	ADC WELDED	EQUIP. MAINTENANCE XA14			4	220	25.0	LNP1-1A	40/0	040	4#40	2/4!!0	040	1#10	3/4"C																				— NE				
AW-1 MW-1	ARC WELDER MIG WELDER	EQUIP. MAINTENANCE XA14 EQUIP. MAINTENANCE XA14			1	230 230	25.0 25.0	LNP1-1A LNP1-1A	40/2 40/2	2#8 2#8	1#10 1#10	3/4"C 3/4"C	2#8 2#8	1#10 1#10	3/4 C			-																60 60	NF NF	AU AU	- IN	-	AW-1 MW-1
IVIVV-I	MIG WELDER	EQUIF. IMAINTENANCE XA14			1	230	25.0	LINF I- IA	40/2	2#0	1#10	3/4 C	2#0	1#10	3/4 C																			- 00	INF	AU	- IN		10100-1
RG-1	REEL GRINDER	EQUIP. MAINTENANCE XA14			1	120	20.0	LNP1-1A	30/1	2#10	1#10	3/4"C	2#10	1#10	3/4"C		Х																Al	J		#			RG-1
PPW-1	PORTABLE PRESSURE WASHER	EQUIP. MAINTENANCE XA14			1	120	20.0	LNP1-1A	30/1	2#10	1#10	3/4"C	2#10	1#10	3/4"C		Х																Al	J			_		PPW-1
WPRS-1	WASH PAD RECYCLE SYSTEM	MAINTENANCE EXTERIOR			1	120	20.0	LNP1-1A	30/1	2#10	1#10	3/4"C	2#10	1#10	3/4"C																			30	NF	AU	— Y	_	WPRS-1
WPSP-1	WASH PAD SUMP PUMP	MAINTENANCE EXTERIOR			1	120	9.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C																			30	NF	AU	Y		WPSP-1
FP-1	GAS & DIESEL FUEL TANK PUMP	MAINTENANCE EXTERIOR			1	120	8.5	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C																			30	NF	AU	Y		FP-1
ERD-1	ELECTRIC ROLL-UP DOOR No.1	EQUIP. STORAGE XA11			1	120	6.5	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C	_	Х				-			1 1				_					Al	J	_		+		ERD-1
ERD-2	ELECTRIC ROLL-UP DOOR No.2	EQUIP. STORAGE XA12			11	120	6.5	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		Х																Al	-					ERD-2
ERD-3	ELECTRIC ROLL LIP DOOR No.3	EQUIP. STORAGE XA13			1	120 120	6.5	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		X																Al Al						ERD-3
ERD-4	ELECTRIC ROLL-UP DOOR No.4	EQUIP. STORAGE XA14			1	120	6.5	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		X							 									Al		_				ERD-4 DWH-1
F-1	FURNACE	EQIUPMENT STORAGE XA11			1	120	8.0	LNP1-1A	20/1	2#12	1#12	1/2"C	2#12	1#12	1/2"C		Х																Al	<u></u>		#	1		F-1
ERV-M1	ENERGY RECOVERY UNIT	EQUIPMENT STORAGE XA11			1	208	8.5	LNP1-1A	15/2	2#12	1#12	1/2"C	2#12	1#12	1/2"C			1													Х			30	NF	AU	N		ERV-M1
DWH-1	WATER HEATER NO.1	J.C. XA07		3	1	208	14.4	LNP1-1A	20/2	2#12	1#12	1/2"C	2#12	1#12	1/2"C	-+		1						 															DWH-1
DWH-2	WATER HEATER NO.2	EQUIPMENT STORAGE XA14		3	1	208	14.4	LNP1-1A	20/2	2#12	1#12	1/2"C	2#12	1#12	1/2"C 1/2"C			1	1 1				1											_		-	_		DWH-2

E-113 DRAWING NOTES

- 1 CONNECT TO LIGHTING CIRCUIT SERVING THIS ROOM AHEAD OF ANY LOCAL SWITCHING.
- 2 CONNECT EXIT SIGN TO EMERGENCY LIGHTING CIRCUIT SERVING THIS BUILDING AHEAD OF ANY LOCAL SWITCHING.

RW Monster Golf Accessory Structures

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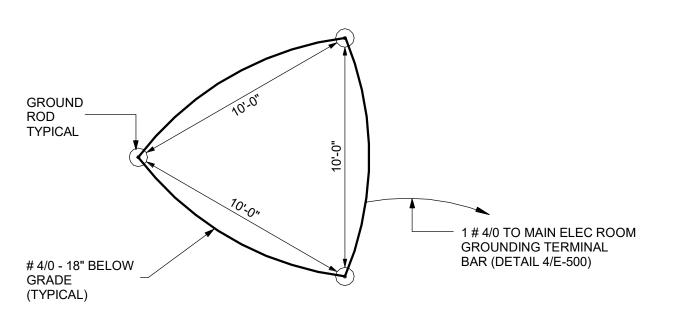
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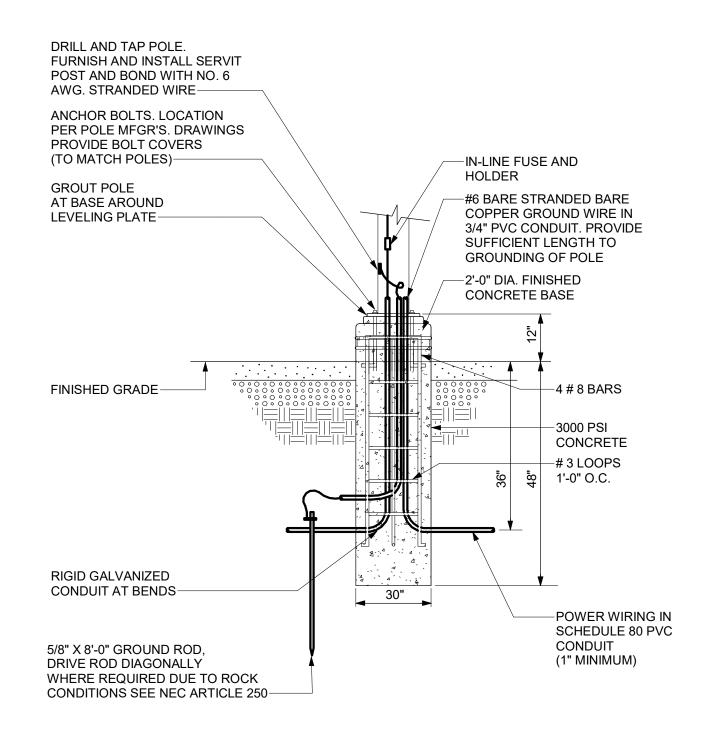
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P.M.		P.A.	
ISSUE	09/30/21		
JOB	H18064.14		
DRAWN	DSL		
SCALE	1/8" = 1'-0"		
REVISIO	NS:		
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FIRST FLOOR PLAN -**ELECTRICAL**

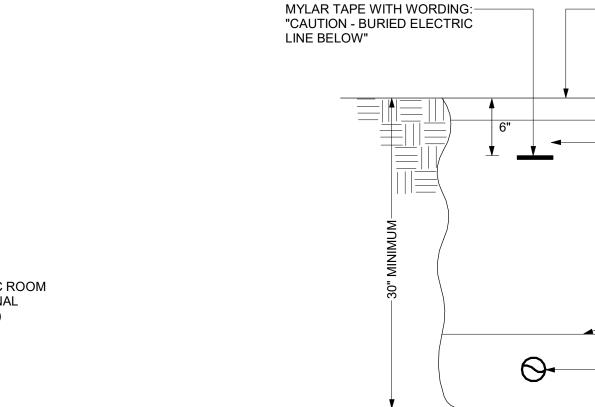
E-113



$5\frac{\text{SERVICE GROUNDING SYSTEM}}{\text{NTS}}$



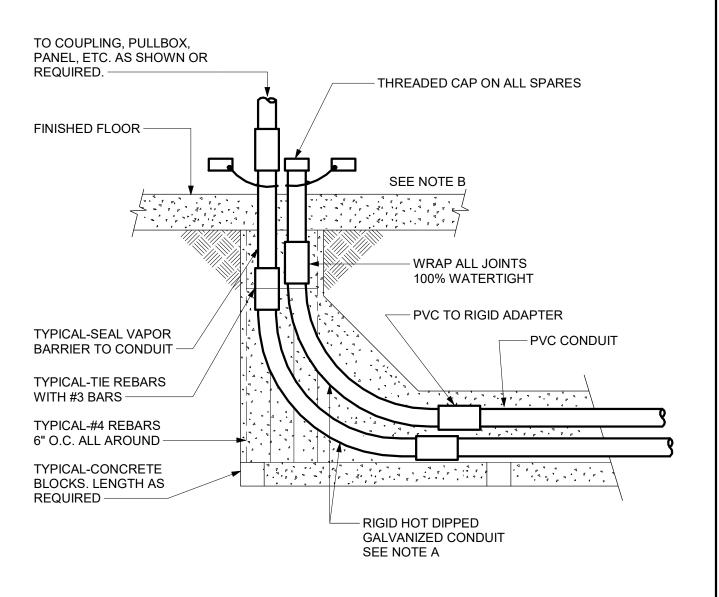
 $6\frac{\text{POLE LIGHTING STANDARD FOUNDATION DETAIL (30")}}{\text{NTS}}$



DETAIL NOTES:

- A. READ THE SPECIFICATIONS.
- B. REPAIR ALL SETTLEMENT.
- C. MINIMUM TOP SOIL 6".
- D. WHERE ADDITIONAL CONDUITS ARE REQUIRED, INCREASE TRENCH WIDTH AND INSTALL CONDUITS WITH 3" MINIMUM SPACING.

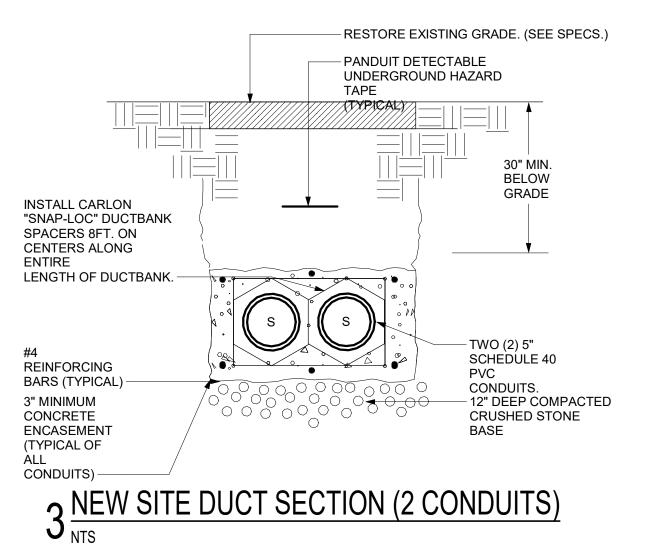
1 TYPICAL DIRECT BURIED CONDUIT DETAIL

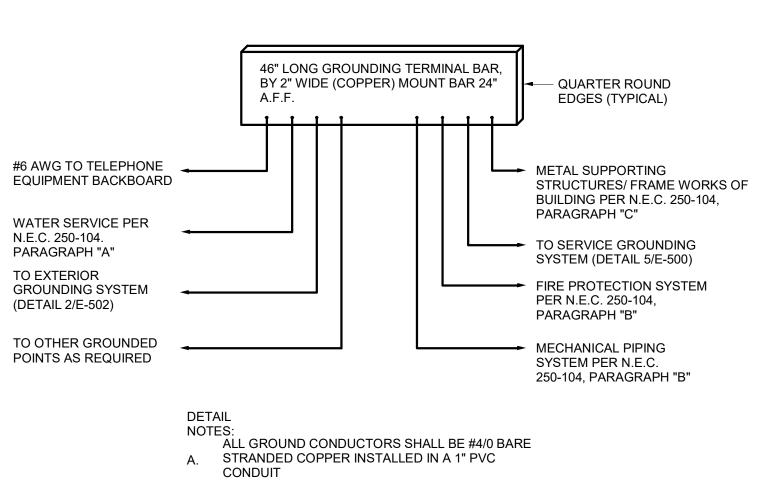


DETAIL NOTES:

- A. WHERE CONDUIT STUBS UP UNDER FLOOR MOUNTED EQUIPMENT SUCH AS SWITCHGEAR, PROVIDE PVC ELBOWS IN LIEU OF RIGID SHOWN.
- B. AT EACH CONDUIT STUB-UP, AFFIX ENGRAVED PLASTIC NAMEPLATE
- INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.

2 TYPICAL CONDUIT STUB-UP DETAIL





4 MAIN ELECTRICAL ROOM GROUNDING TERMINAL BAR DETAIL



-PAVING OR TOPSOIL TO

-NO ROCKS, DEBRIS IN

-COMPACT BACKFILL TO MATCH SURROUNDING

-PROVIDE 3" SAND BED

ALL AROUND CONDUIT

-SCHEDULE 80 PVC CONDUIT UNLESS

ON PLANS

OTHERWISE SHOWN

FINISH GRADE

BACKFILL

CONDITIONS

MATCH SITE CONDITIONS

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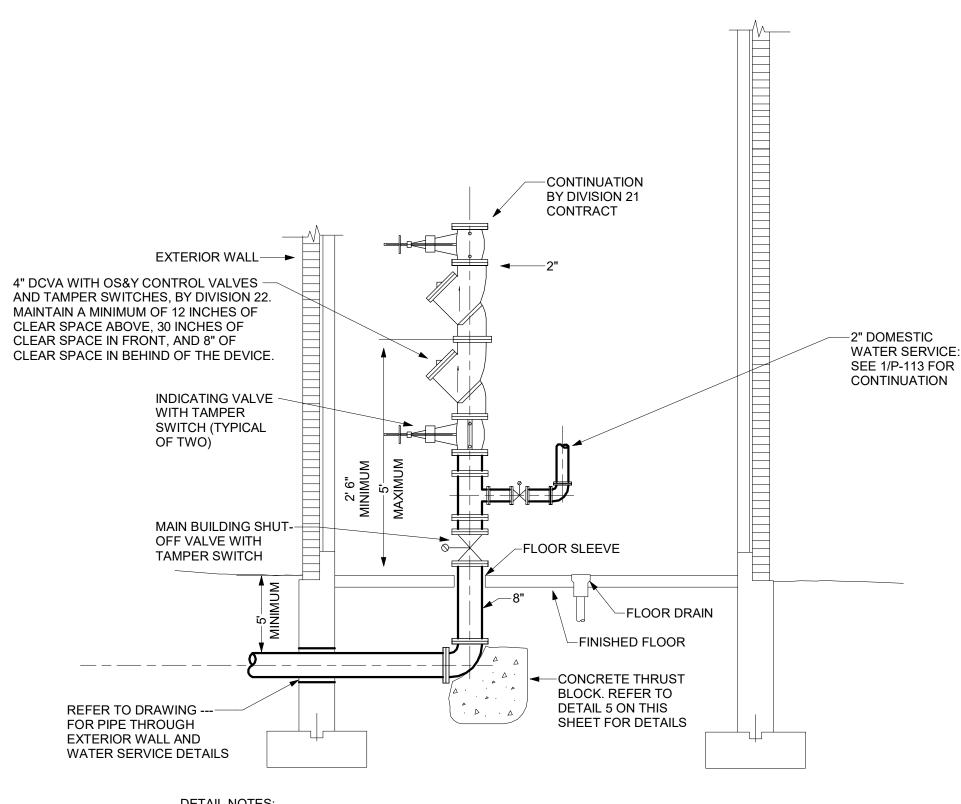
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DETAILS -ELECTRICAL

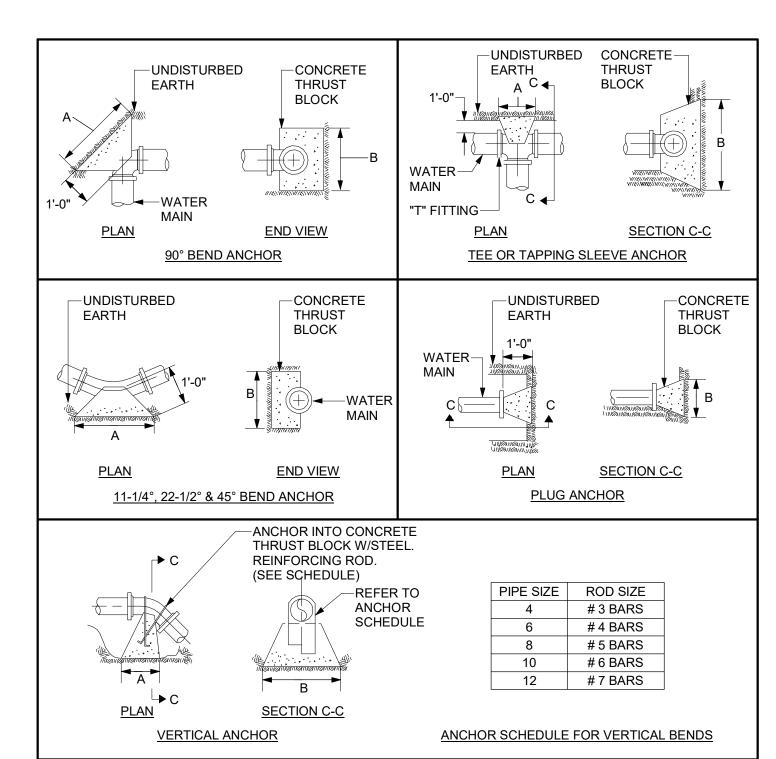
E-500



DETAIL NOTES:

- A. REFER TO FLOOR PLANS FOR LOCATION OF FIRE PROTECTION SERVICE ENTRANCE.
- B. ALL COMPONENTS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, LOCAL AUTHORITIES HAVING JURISDICTION AND COMPONENTS MANUFACTURERS. CONTRACTOR FOR ELECTRICAL WORK WILL WIRE ALARM, TAMPER SWITCHES, PRESSURE AND FLOW SWITCHES. COORDINATE ELECTRICAL CHARACTERISTICS OF DEVICES WITH CONTRACTOR FOR ELECTRICAL WORK.
- C. PROVIDE PROPER PIPE SUPPORTS. PAINT WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF BLACK PAINT.

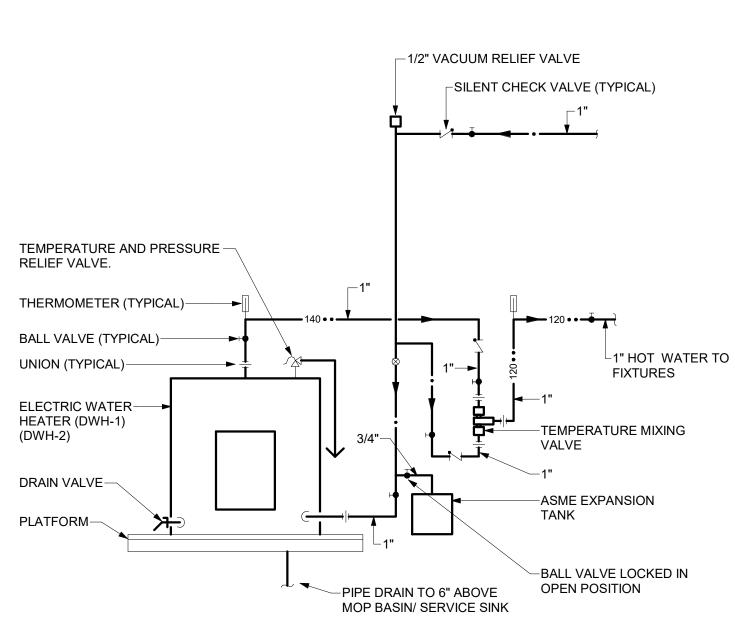
COMBINED SERVICE ENTRANCE DETAIL



PIPE SIZE IN		.UG OR LEEVE	UP TO 90 BE	O°	. WORKI 4: BE	5°	SSURE 22- BE			1/4° ND
INCHES	'A'	'B'	'A'	'B'	'A'	'B'	'A'	'B'	'A'	'B'
4"	1.5'	2.5'	2.5'	2.0'	2.0'	1.5'	1.0'	1.5'	1.0'	1.5'
6"	1.5'	2.5'	2.5'	2.0'	2.0'	1.5'	1.0'	1.5'	1.0'	1.5'
8"	1.5'	3.5'	3.5'	2.5'	2.5'	2.0'	1.5'	1.5'	1.0'	2.0'
	IL NOTE	S:								

- CONCRETE SHALL MEET THE REQUIREMENTS FOR CLASS "A" CONCRETE AS SPECIFIED IN N.Y.S.D.O.T. SPECIFICATION SECTION 501.
- HARNESS DESIGN, MATERIAL AND USAGE SHALL BE APPROVED AND DIRECTED BY THE ENGINEER.
- C. CLAMPS AND ANCHOR BOLTS FOR GRAVITY THRUST BLOCKS SHALL BE OF A DESIGN RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER. ALL PARTS EXPOSED TO SURROUNDING SOIL SHALL BE ASPHALT COATED AS DIRECTED BY THE ENGINEER.
- D. ANCHOR DIMENSIONS BASED ON 2000 PSI SOIL BEARING PRESSURE. ADJUST FOR POORER SOIL CONDITIONS.
- THRUST BLOCKS SHALL BE FORMED SUCH THAT ALL BOLTS AND FASTENERS REMAIN ACCESSIBLE.

5 THRUST BLOCK DETAIL



PROVIDE PROPER SUPPORTS FOR PIPING AND EXPANSION TANK.

EXPANSION TANK TO BE AMTROL MODEL ST-5C, ASME RATED TANK.

VACUUM RELIEF VALVE TO BE WATTS MODEL N36, 1/2" SIZE.

STANDARD CONTROLS AND LOW WATER CUT-OFF.

PROVIDE CEILING MOUNTED PLATFORM AS HIGH AS POSSIBLE ABOVE FINISHED FLOOR.

CEILING MOUNTED PLATFORM SHALL BE SIMILAR TO HOLDRITE MODEL # 30-SWHP-W.

PLATFORM SHALL BE MOUNTED ABOVE MOP SINK - VERIFY ELEVATION IN FIELD.

PLATFORM SHALL BE INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS.

MASTER MIXING VALVE SHALL BE 1" WATTS MODEL #LF1170MS-US - OUTLET

COORDINATE INSTALLATION OF WATER HEATER PLATFORM WITH GENERAL

REFER TO WATER HEATER SCHEDULE FOR TANK SIZE, CAPACITY AND POWER

REQUIREMENTS. ELECTRIC WATER HEATER SHALL BE ASME RATED WITH ALL

	NO.	SERVICE	TYPE	KW INPUT	GALLONS/ HOUR	TEMP RISE DEG F	FUEL TYPE	VENT IN INCHES	ELECTRIC	DESIGN MAKE
ľ	DWH-1 D	OMESTIC WATER	TANK	3	12	100	ELECTRIC	-	208/1/60	LOCHINVAR EJJ020GS
	DWH-2 D	OMESTIC WATER	TANK	3	12	100	ELECTRIC	-	208/1/60	LOCHINVAR EJJ020GS
	FIXTURE A	ND EQUIPME	ENT CON	NECTIC	N SCHE	DULE				
	DESIGNATION	DESCRIPTION	COLD WATER	HOT WATER	WASTE OR SANITARY	VENT	RE	MARKS		
Ī	WC	WATER CLOSET	1-1/2"	-	4"	2"				
	UR	URINAL	1"	-	2"	1-1/2"				
	LAV	LAVATORY	1/2"	1/2"	1-1/2"	1-1/2"				
	SK	SINK	1/2"	1/2"	1-1/2"	1-1/2"				
	FD	FLOOR DRAIN	-	-	3" OR 4"	2"	PROVIDE TRAP	PRIMER		
	MB	MOP BASIN	3/4"	3/4"	3"	2"				
	EWC	ELECTRIC WATER COOLER	1/2"	-	1-1/2"	1-1/2"				

WATER HEATER SCHEDULE

SYMBOL	DESCRIPTION
SYMBOL	22001111 11011
_	NEW PIPING LOCATED ABOVE FLOOR/SLAB
	NEW PIPING LOCATED BELOW FLOOR/SLAB
•	COLD WATER PIPING (CW)
• • •	HOT WATER PIPING (HW)
•••	HOT WATER RECIRCULATING PIPING (HWR)
W	WATER SERVICE - EXTERIOR
— SAN ——	SANITARY SEWER PIPING
	VENT PIPING
——G——	NATURAL GAS PIPING (G)
	ELBOW DOWN
	ELBOW UP
	BOTTOM/TEE CONNECTION
<u> </u>	TOP TEE CONNECTION
	"P" TRAP
	PIPE CONTINUATION
	CAP OR PLUG
ф	DECK PLATE CLEANOUT (DPCO)
	WALL PLATE CLEANOUT (WPCO)
	FLOOR DRAIN (FD)
	WALL HYDRANT (WH)
<u> </u>	SHUT OFF VALVE
	BALANCING VALVE
- \-	CHECK VALVE
	BACKFLOW PREVENTER (BFP)
(X)	DRAWING KEYNOTE

P-002 GENERAL NOTES

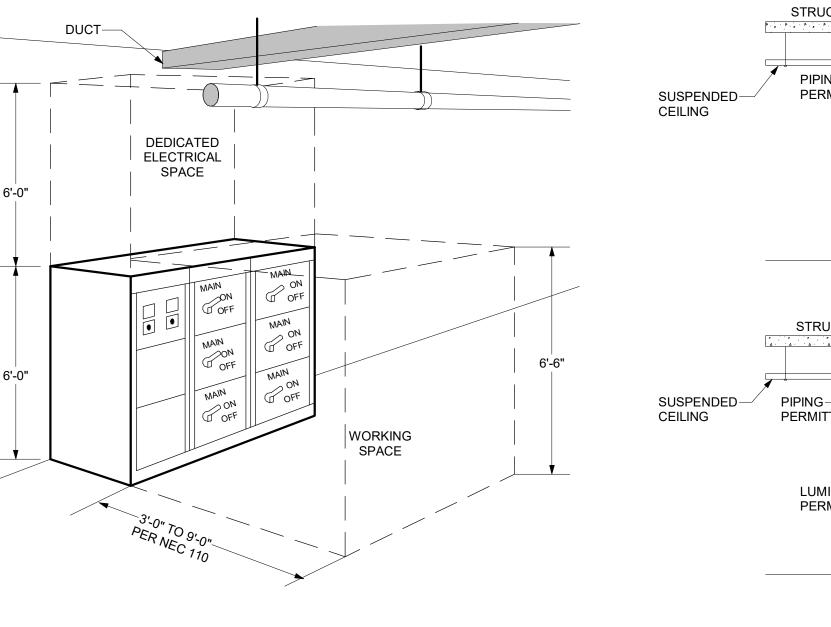
- COORDINATE PLUMBING WORK WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN
- RUN ALL NEW HORIZONTAL PIPING AS HIGH AS POSSIBLE ABOVE CEILINGS OR BELOW
- BUILDING WORK.
- WHEN EXISTING CONSTRUCTION IS DAMAGED DURING WORK BY THIS CONTRACTOR, REPAIR AND/OR REPLACE WITH SIMILAR OR LIKE MATERIALS AS MUCH AS POSSIBLE,
- SUBJECT TO ARCHITECT'S APPROVAL AT NO ADDITIONAL COST TO OWNER. MAINTAIN SERVICE CLEARANCES FOR ALL EQUIPMENT AS RECOMMENDED BY THE
- PROVIDE FOR THE DRAINING AND REFILLING OF PIPING SYSTEMS, INCLUDING AIR REMOVAL, READJUSTING FLUSH VALVES, FLUSHING SYSTEMS OF DIRT AND SCALE
- DRAWING FOR FINAL CONNECTION SIZES.

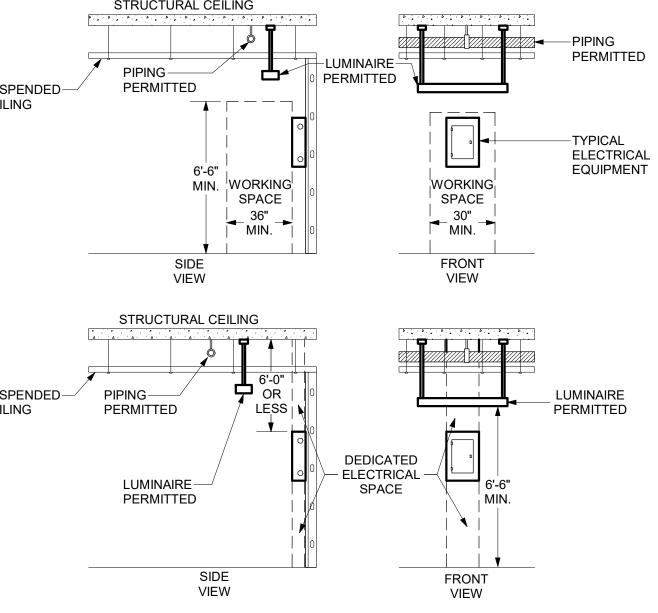
ELECTRIC WATER HEATER ON PLATFORM DETAIL NOT TO SCALE

TEMPERATURE SHALL BE SET AT 120 DEF F.

CONTRACTOR PRIOR TO CONSTRUCTION.

DETAIL NOTES:





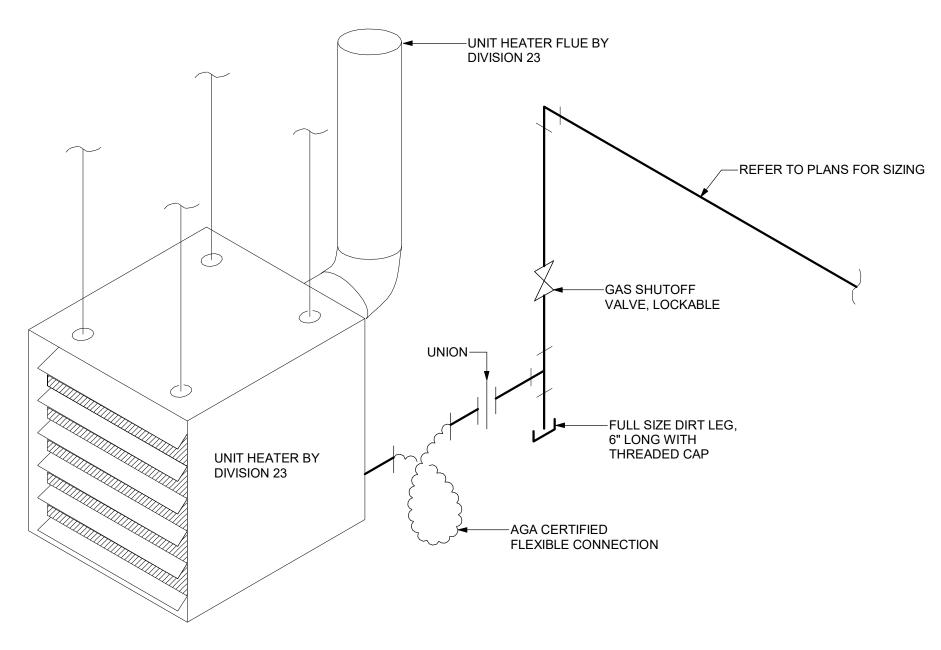
DETAIL NOTES:

- A. ELECTRICAL EQUIPMENT INCLUDES PANELS, TRANSFORMERS, DISCONNECTS, STARTERS, MOTOR CONTROL CENTERS, SWITCHGEAR, ADJUSTABLE SPEED DRIVES, AND FUSED SWITCHES (THIS ALSO APPLIES TO ELECTRICAL GEAR
- B. DEDICATED ELECTRICAL SPACE IS DEFINED BY NEC 110.

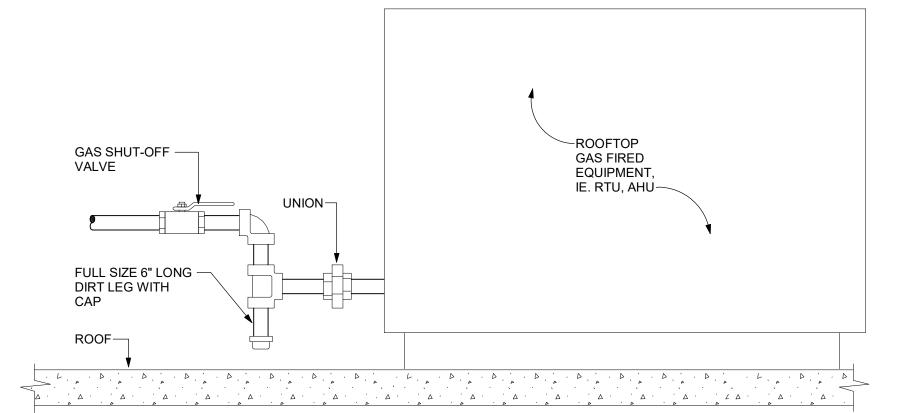
MOUNTED DIRECTLY ON MECHANICAL EQUIPMENT).

C. NO PIPING OR DUCTWORK MAY BE INSTALLED IN DEDICATED ELECTRICAL SPACE OR WORKING SPACE.

▲ PIPING OVER ELECTRICAL EQUIPMENT DETAIL



7 GAS CONNECTION TO UNIT HEATER DETAIL NOT TO SCALE



DETAIL NOTES:

- B. VERIFY CONNECTION SIZES, QUANTITIES AND LOCATIONS WITH MECHANICAL CONTRACTOR.
- D. REFER TO DRAWING. --- FOR GAS PIPING SUPPORT DETAIL

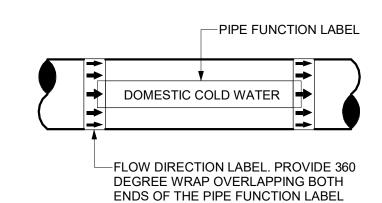
6 GAS CONNECTION TO EQUIPMENT DETAIL NOT TO SCALE

HARTFORD, CT 06106 860.247.9226 REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING NEW

MANUFACTURER. ADVISE OTHER TRADES OF THE REQUIRED SERVICE CLEARANCES.

CAUSED BY SHUT DOWNS AND STARTUPS. REFER TO PLUMBING FIXTURE AND EQUIPMENT CONNECTION SCHEDULE ON THIS

FLUSH VALVES ON ACCESSIBLE WATER CLOSETS SHALL BE ROUGHED SO THE HANDLE IS ON THE WIDE SIDE OF THE ROOM OR STALL.



OF THE PIPE CONTENTS.

DETAIL NOTES:

- A. PROVIDE A PIPE LABEL FOR EACH PIPE FUNCTION.
- B. PROVIDE AT LEAST ONE LABEL ON EACH PIPE FOR EVERY ROOM THE PIPE PASSES THROUGH.

AND MATCHING THE FLOW DIRECTION

- C. PROVIDE LABELS IN LARGE SPACES ON MAXIMUM 20' CENTERS FOR
- EVERY PIPE UNLESS OTHERWISE NOTED IN THE SPECIFICATIONS. D. LABELS TO BE LOCATED IN AN EASILY VISIBLE LOCATION AS THEY WOULD NORMALLY BE SEEN. IE. ON THE BOTTOM HALF OF PIPES
- IN THE AIR AND ON THE TOP HALF OR SIDES OF PIPES MOUNTED LOW. E. LABELS SHALL BE, COLOR CODED, PRE-PRINTED, SELF ADHESIVE VINYL.
- F. SEE SPECIFICATION FOR OTHER REQUIREMENTS AND LIST OF PIPE FUNCTIONS.

3 PIPE IDENTIFICATION DETAIL NOT TO SCALE

- A. PROVIDE SHUT-OFF VALVE, DIRT LEG AND UNION AT EACH GAS CONNECTION ON EACH
- C. PLUMBING CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION.

P-002

PLUMBING

DETAILS,

SCHEDULES AND

SYMBOL LIST -

ISSUE 09/30/21

JOB __H18064.14

SCALE NOT TO SCALE

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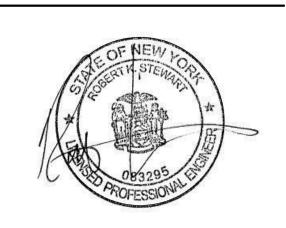
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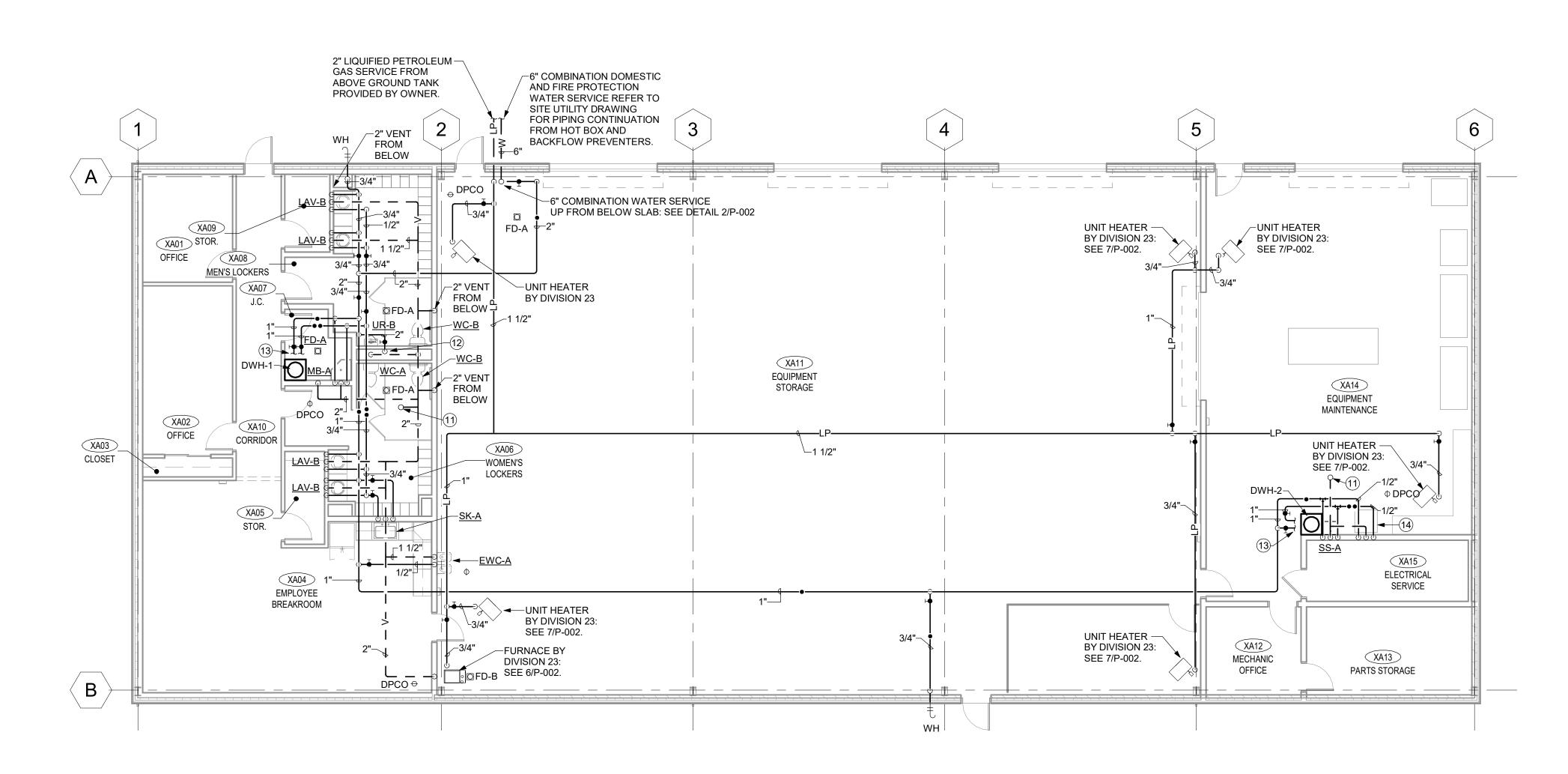
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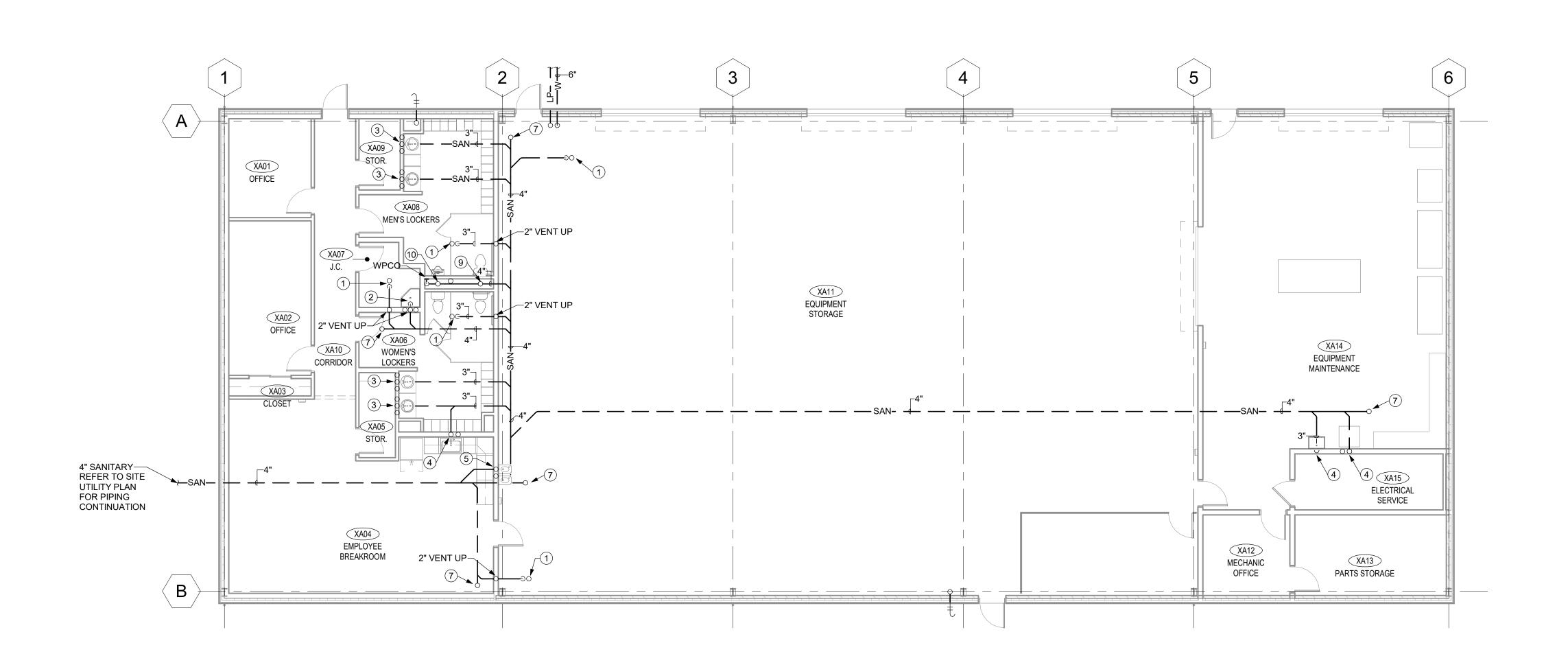
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1 MAINTENANCE BUILDING - FIRST FLOOR PLAN - PLUMBING



 $2^{\frac{\text{MAINTENANCE BUILDING - UNDERSLAB PLAN - PLUMBING}}{1/8" = 1'-0"}$

P-111 DRAWING NOTES

- 1 3" SANITARY FROM FLOOR DRAIN ABOVE.
- 3" SANITARY FROM MOP BASIN ABOVE.3" SANITARY FROM LAVATORY ABOVE.
- 3 3" SANITARY FROM LAVATORY ABOVE.4 3" SANITARY FROM SINK ABOVE.
- 5 3" SANITARY FROM ELECTRIC WATER COOLER ABOVE.
- 4" SANITARY UP TO DECK PLATE CLEANOUT (DPCO) ABOVE.
 4" SANITARY DOWN, 2" VENT UP.
- 4" SANITARY FROM WATER CLOSET AND URINAL, 2" VENT UP.3" VENT UP THROUGH ROOF.
- 12 2" CW HEADER DOWN IN CHASE. BRANCH AND CONENCT TO WATER CLOSETS AND URINALS. PROVIDE WATER HAMMER ARRESTOR ON CONNECTION TO THE
- AND URINALS. PROVIDE WATER HAMMER ARRESTOR ON CONNECTION TO TI LAST TWO FIXTURES.

 13 1" CW & 1" HW TO ELECTRIC WATER HEATER: REFER TO DETAIL 1 ON P-002.
- 14 PARTS WASHER FURNISHED BY OWNER. VERIFY ALL EQUIPMENT REQUIREMENTS, PROVIDE APPURTENANCES AS REQUIRED AND MAKE ALL FINAL CONNECTIONS TO EQUIPMENT.

CONNECTION TO THE

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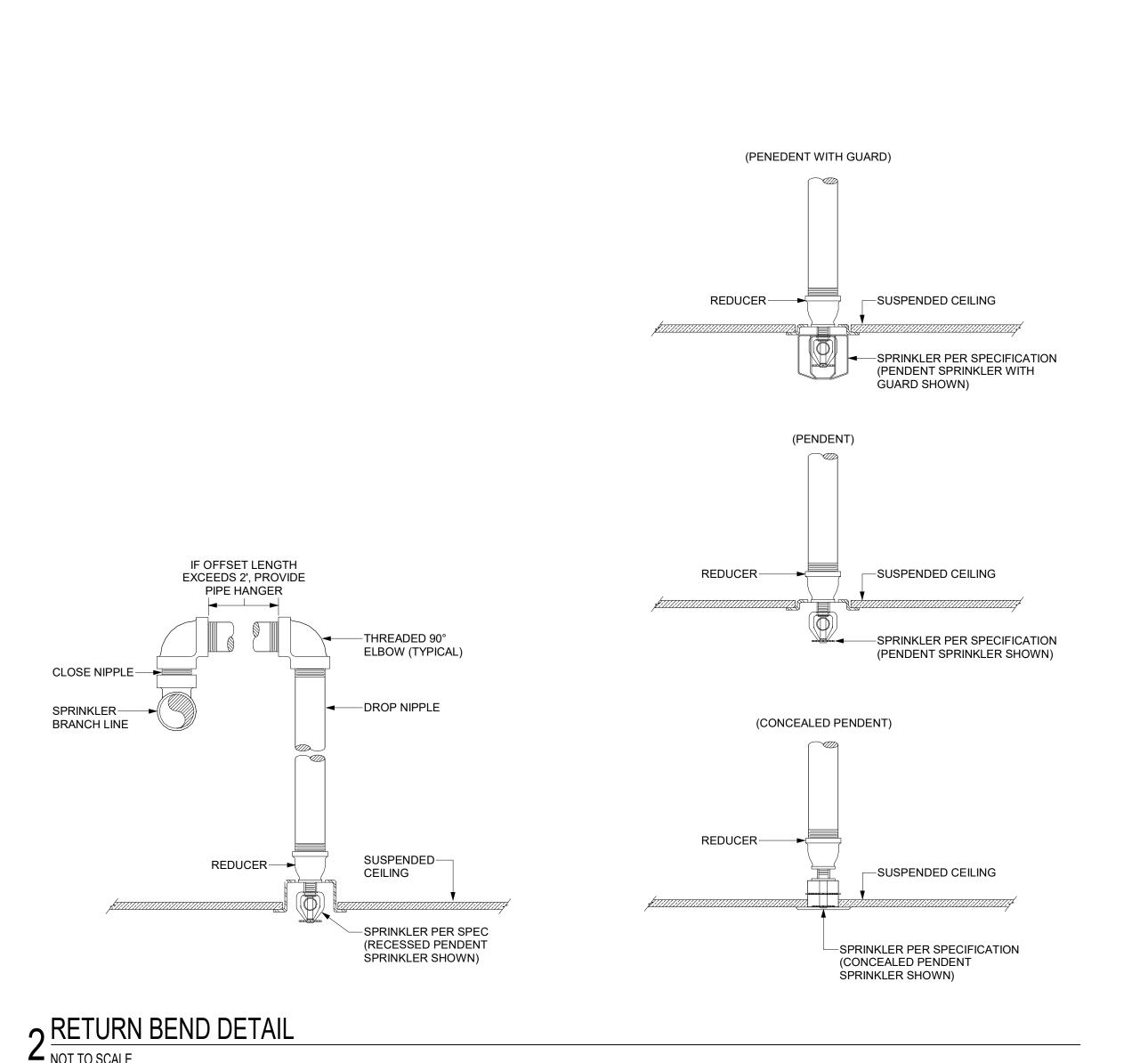
SCALE 1/8" = 1'-0"

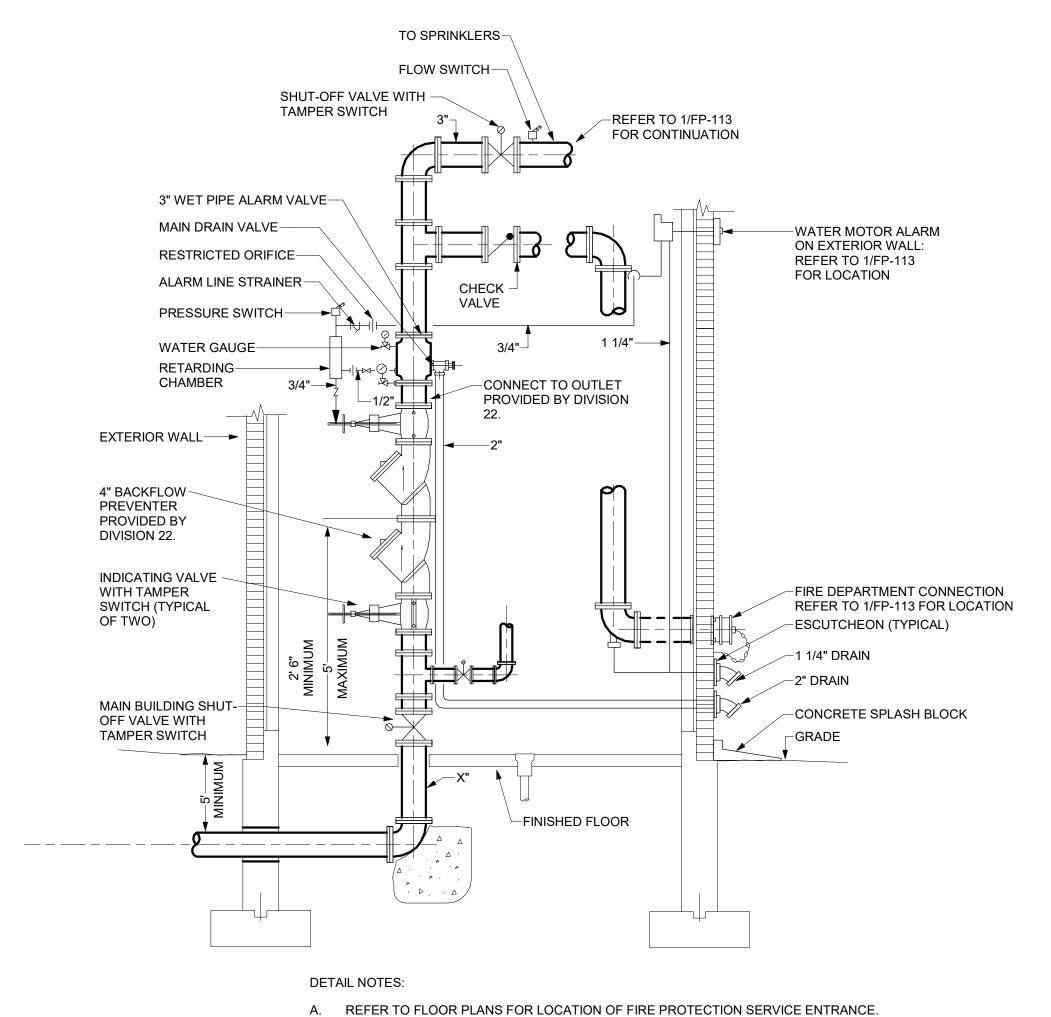
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REVISIONS:

FIRST FLOOR PLAN -PLUMBING

P-113





B. ALL COMPONENTS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, LOCAL AUTHORITIES HAVING

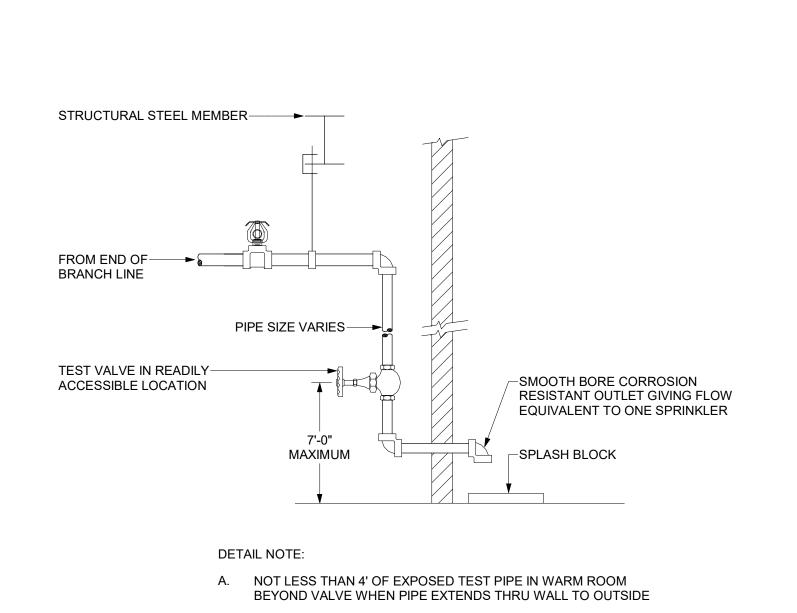
ALARM, TAMPER SWITCHES, PRESSURE AND FLOW SWITCHES. COORDINATE ELECTRICAL

C. PROVIDE PROPER PIPE SUPPORTS. PAINT WITH ONE (1) PRIMER AND TWO (2) FINISH COATS OF

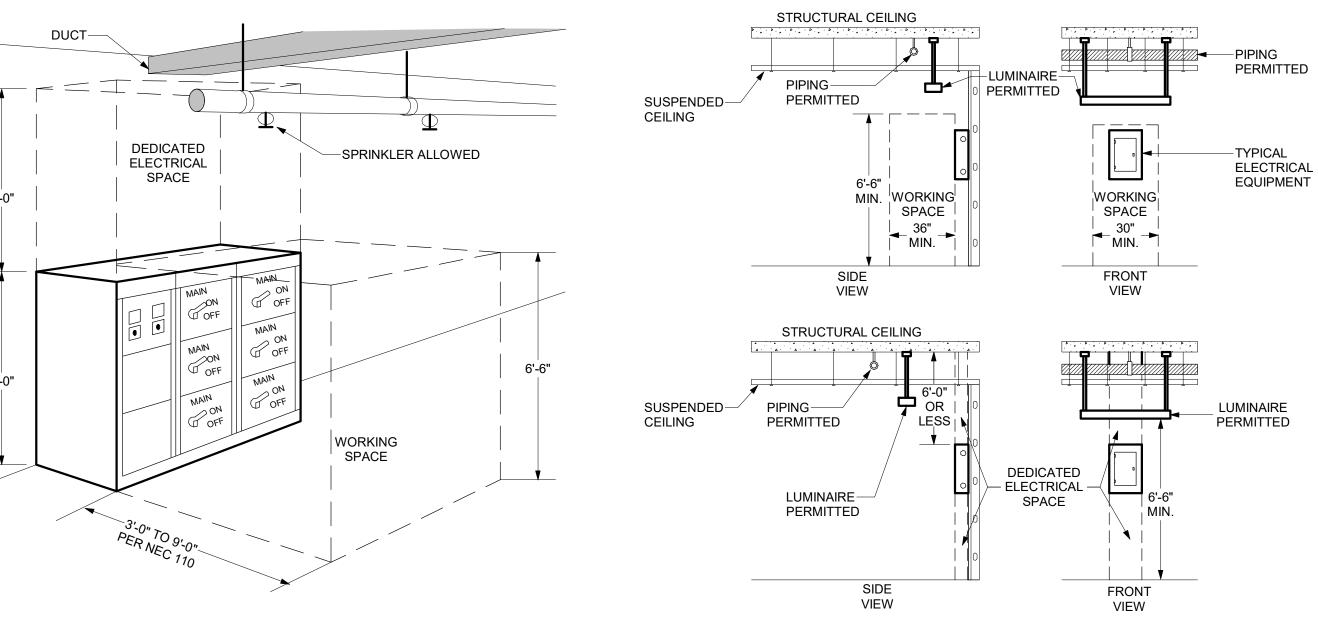
CHARACTERISTICS OF DEVICES WITH CONTRACTOR FOR ELECTRICAL WORK.

JURISDICTION AND COMPONENTS MANUFACTURERS. CONTRACTOR FOR ELECTRICAL WORK WILL WIRE

▲ CONNECTION TO COMBINED SERVICE ENTRANCE DETAIL



INSPECTOR'S TEST CONNECTION DETAIL (WET SYSTEM)



DETAIL NOTES:

NOT TO SCALE

- A. ELECTRICAL EQUIPMENT INCLUDES PANELS, TRANSFORMERS, DISCONNECTS, STARTERS, MOTOR CONTROL CENTERS, SWITCHGEAR, ADJUSTABLE SPEED DRIVES, AND FUSED SWITCHES (THIS ALSO APPLIES TO ELECTRICAL GEAR MOUNTED DIRECTLY ON MECHANICAL EQUIPMENT).
- B. DEDICATED ELECTRICAL SPACE IS DEFINED BY NEC 110.
- C. NO PIPING OR DUCTWORK MAY BE INSTALLED IN DEDICATED ELECTRICAL SPACE OR WORKING SPACE.

3 PIPING OVER ELECTRICAL EQUIPMENT DETAIL NOT TO SCALE

PIPE SCHEDULE # OF HEADS PIPE SIZE 1-1/4" 1-1/2" 6-10

THE SIZES INDICATED ABOVE ARE BASED ON PRELIMINARY HYDRAULIC CALCULATIONS. THE FIRE PROTECTION CONTRACTOR SHALL PERFORM FINAL CALCULATIONS ON THE COORDINATED SYSTEM DESIGN TO VERIFY SIZES PRIOR TO COMMENCING WORK.

SYMBOL	DESCRIPTION
FC	FLUSHING CONNECTION
	NEW PIPING
— FP ——	FIRE PROTECTION SERVICE (FP)
s	SPRINKLER MAIN/BRANCH PIPING (S)
—D—	SPRINKLER DRAIN PIPING (D)
	ELBOW DOWN
	BOTTOM/TEE CONNECTION
	TOP TEE CONNECTION
	PIPE CONTINUATION
	FLUSHING CONNECTION
•	PENDENT SPRINKLER
(•)	CONCEALED PENDENT SPRINKLER
0	UPRIGHT SPRINKLER
-	DRAIN VALVE
-N -	CHECK VALVE
<u></u> ₹	RELIEF VALVE
	BACKFLOW PREVENTER (BFP)
	SHUT-OFF VALVE WITH TAMPER SWITCH (TS)
FS	FLOW SWITCH (FS)
	ALARM CHECK VALVE WITH TRIM (ACV)
-	WATER MOTOR GONG
****	FIRE DEPARTMENT CONNECTION (FDC)
+	INSPECTOR'S TEST CONNECTION (ITC)
(X)	DRAWING KEYNOTE

FP-002 GENERAL NOTES

- CONTRACTOR SHALL COORDINATE PIPE ROUTINGS WITH STRUCTURE, DUCTWORK, PIPING, LIGHTS, ETC. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL PANELS. INSTALL
- PIPING AS HIGH AS POSSIBLE. CONTRACTOR SHALL COORDINATE SPRINKLER LOCATIONS WITH STRUCTURE, DUCTWORK,
- DIFFUSERS, LIGHTS, REFLECTED CEILING PLANS, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING NEW
- CONTRACTOR SHALL DRAIN AND REFILL SYSTEM UPON COMPLETION OF WORK AND PERFORM ALL TESTING.

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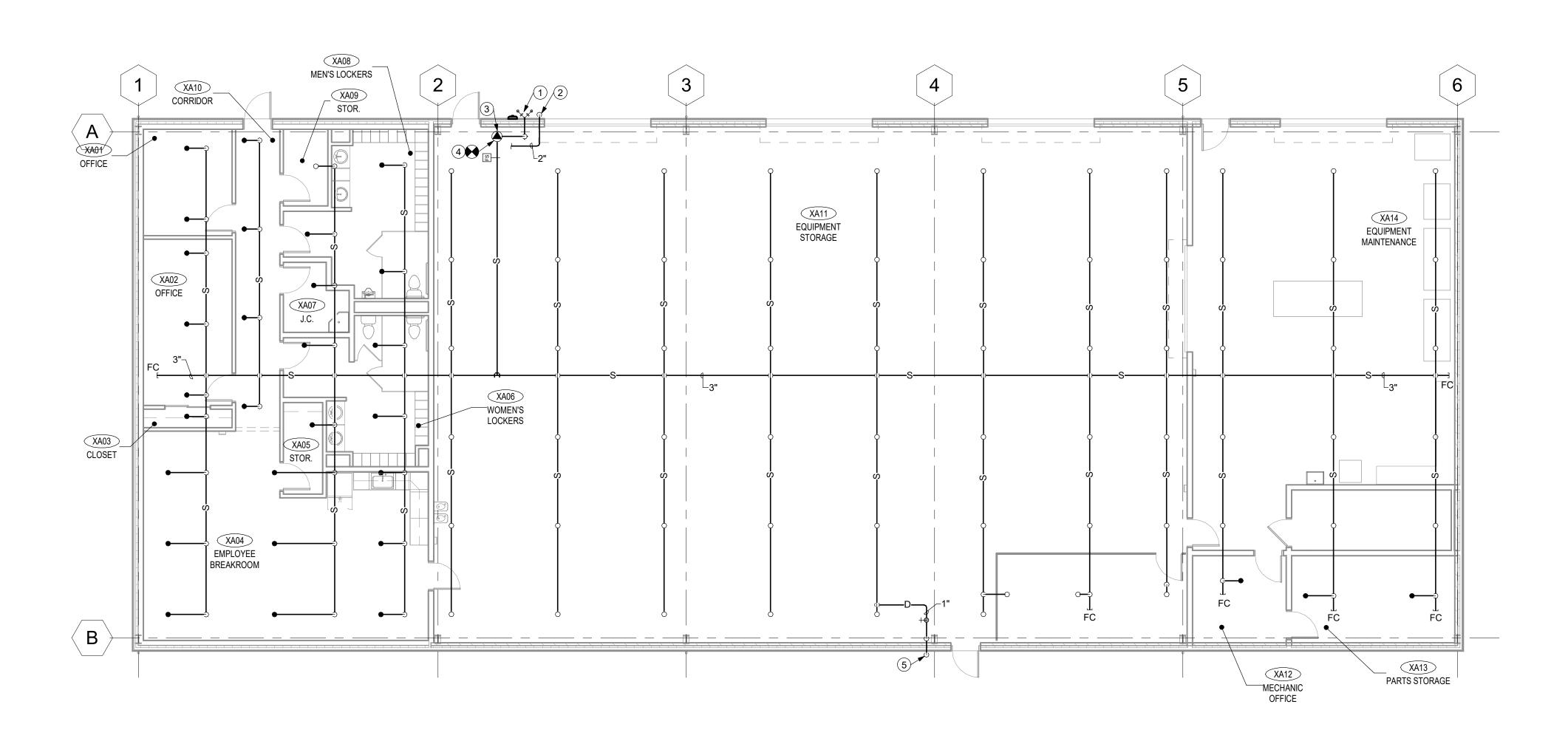


ISSUE 09/30/21 DRAWN_DMS2 SCALE NOT TO SCALE **REVISIONS:**

DETAILS, SCHEDULES AND SYMBOL LISTS - FIRE

PROTECTION

FP-002



MAINTENANCE BUILDING - FIRST FLOOR PLAN - FIRE PROTECTION 1/8" = 1'-0"

FP-111 DRAWING NOTES

- 1 5"x4" STORZ FIRE DEPARTMENT CONNECTION WITH 30 DEGREE ELBOW. VERIFY THREAD WITH LOCAL FIRE DEPARTMENT.
- 2 2" FIRE PROTECTION SYSTEM MAIN DRAIN. TERMINATE AT EXTERIOR 1'-6" ABOVE FINISHED GRADE WITH SPLASHBLOCK.
- 3 PROVIDE WATER MOTOR GONG.
- 4 CONNECT TO OUTLET OF BACKFLOW PREVENTER PROVIDED BY DIVISION 22. PROVIDE ALARM CHECK VALVE AND ALL RELATED APPURTENANCES.
- TERMINATE 1" INSPECTORS TEST AND DRAIN PIPING AT EXTERIOR 1'-6" ABOVE FINISHED GRADE WITH SPLASHBLOCK. REFER TO DETAIL ON DRAWING FP-002.

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ISSUE 09/30/21 **JOB** H18064.14 DRAWN DMS2 **SCALE** 1/8" = 1'-0" **REVISIONS:**

FIRST FLOOR PLAN - FIRE PROTECTION

FP-113